



Antenne combinée 4×[5G 4G-LTE 3G/2G LPWA] 4×[2.4/5GHz WiFi6E BT] IP67/IP69 | 0.9 à 6dBi

Référence GC-4H85Pe

Gain	0.9dBi à 6dBi
Connecteurs	SMA (M) / SMA-RP (M)
Dimensions (mm)	198 × 127 × 15,7
T° de fonctionnement	-40°C à +85°C

Disponible en noir ou en blanc,

L'antenne **ultra-large bande** GC-4H85Pe est conçue pour toutes les bandes GSM (5G/4G/3G/2G + LPWA) et ISM 2.4, 5 et 6 GHz avec un gain et une efficacité élevés dans les bandes de fréquences 617 - 5925 MHz.

Cette antenne haute performance offre une connectivité, une précision et une fiabilité supérieures, notamment dans les secteurs de la sécurité publique, des transports, de l'automobile, etc.

Câbles 1 à 4 : GMS / IoT

Omnidirectionnelles, ces antennes fonctionnent dans les normes 5G NR, FirstNet, CBRS, 4G-LTE, CAT-X, CAT-MX, CAT-NBx, 3G, 2G, SigFox et LoRa.

Câbles 5 à 8 : WiFi 6E ISM 2,4/5,0/6,0 GHz

Ces antennes sont conçues pour les normes WiFi, Bluetooth, ZigBee, ISM.

Les bandes 2,4/5/6 GHz combinent **longue et courte portée** et offre une grande efficacité sans créer de conflits avec le trafic existant. Il en résulte des canaux à large bande passante, une **sécurité améliorée**, et une réduction de la congestion du réseau.

INSTALLATION

Indépendante du plan de masse, son installation est facilitée par un adhésif haute qualité. D'une dimension de 198 × 127 × 15,7 mm, le boîtier est fabriqué avec un matériau ASA stable aux UV et certifié IP67/IP69.

Les connexions de la GC-4H85Pe sont standard SMA-Mâle (5G NR)/ SMA-Mâle-RP (WiFi-6E ISM) et viennent avec des câbles D302 (5G NR/WiFi-6E ISM) de 300cm de long.



CARACTÉRISTIQUES

Caractéristiques communes Câbles **1, 2, 3 et 4 (5G/4G/3G/2G – IoT/LPWAN)**

FRÉQUENCE (MHZ)	617-960	1427-2690	3300-5000	5150-5925
BANDE(S) (MHZ)	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800
BANDES 5G NR	n5, n8, 12, n20, n28, n71, n81, n82, n83,	n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86	n77, n78, n79	
BANDES 4G-LTE	B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85	B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76	B22, B42, B43, B48, B49, B52	B46, B47, B252, B255
BANDES 3G	B5, B6, B8, B12, B13, B14, B19, B20, B26	B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40	B22	
BANDES 2G	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS		
BANDES CDMA	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21		
IMPÉDANCE (OHMS)	50			
POLARISATION	Linéaire			
RAYONNEMENT	Omnidirectionnel			
PUISSANCE D'ENTRÉE MAX. (W)	25			
CONNECTEUR	SMA-mâle standard (autres connecteurs disponibles)			
LONGUEUR DU CÂBLE	300 cm standard (toute longueur de câble disponible)			
TYPE DE CÂBLE	Norme D302 (autres câbles disponibles)			



Câble 1

PERTE DE RETOUR (DB)	~-13,2	~-15,7	~-12,6	~-11,6
VSWR	~1.6:1	~1.6:1	~1.7:1	~1.8:1
EFFICIENCE (%)	~55,2	~46,9	~30,4	~26,3
GAIN DE CRÊTE (DBI)	~3,1	~4,5	~2,0	~0,9
GAIN MOYEN (DB)	~-2,6	~-3,3	~-5,2	~-5,8

Câble 2

PERTE DE RETOUR (DB)	~-14,6	~-15,4	~-15,6	~-15,7
VSWR	~1.5:1	~1.5:1	~1.5:1	~1.4:1
EFFICIENCE (%)	~55,1	~46,9	~35,7	~34,0
GAIN DE CRÊTE (DBI)	~3,3	~3,6	~3,1	~2,9
GAIN MOYEN (DB)	~-2,6	~-3,3	~-4,5	~-4,7

Câble 3

PERTE DE RETOUR (DB)	~-15,4	~-14,3	~-13,7	~-13,0
VSWR	~1.5:1	~1.6:1	~1.7:1	~1.7:1
EFFICIENCE (%)	~55,3	~44,0	~29,7	~27,5
GAIN DE CRÊTE (DBI)	~3,5	~3,4	~2,6	~3,1
GAIN MOYEN (DB)	~-2,6	~-3,6	~-5,4	~-5,6

Câble 4

PERTE DE RETOUR (DB)	~-15,2	~-16,8	~-13,9	~-12,5
VSWR	~1.5:1	~1.4:1	~1.6:1	~1.7:1
EFFICIENCE (%)	~57,1	~48,4	~30,4	~25,1
GAIN DE CRÊTE (DBI)	~3,4	~4,5	~2,5	~1,2
GAIN MOYEN (DB)	~-2,4	~-3,2	~-5,4	~-6,2



Caractéristiques communes Câbles 5, 6, 7 et 8 (ISM 2,4 / 5 / 6 GHz – WiFi, Bluetooth, ZigBee)

BANDE(S) (MHZ)	2,4 GHz	5,0 GHz	6,0 GHz
FRÉQUENCE(S) (MHZ)	2410-2490	4920-5925	5925-7125
POLARISATION	Linéaire		
RAYONNEMENT	Omnidirectionnel		
PUISSANCE D'ENTRÉE MAX. (W)	25		
CONNECTEUR	SMA-Mâle-RP Standard (autres connecteurs disponibles)		
LONGUEUR DU CÂBLE	300 cm standard (toute longueur de câble disponible)		
TYPE DE CÂBLE	Norme D302 (autres câbles disponibles)		

Câble 5

PERTE DE RETOUR (DB)	~-13,5	~-15,8	~-14,2
VSWR	~1.6:1	~1.5:1	~1.6:1
EFFICIENCE (%)	~30,8	~20,2	~47,2
GAIN DE CRÊTE (DBI)	~4,5	~3,1	~3,8
GAIN MOYEN (DB)	~-5,1	~-7,1	~-3,3

Câble 6

PERTE DE RETOUR (DB)	~-11,9	~-13,2	~-11,8
VSWR	~1.9:1	~1.7:1	~1.9:1
EFFICIENCE (%)	~37,6	~23,0	~42,3
GAIN DE CRÊTE (DBI)	~6,0	~5,0	~3,0
GAIN MOYEN (DB)	~-4,3	~-6,5	~-3,8

Câble 7

PERTE DE RETOUR (DB)	~-19,2	~-14,8	~-13,4
VSWR	~1.3:1	~1.6:1	~1.6:1
EFFICIENCE (%)	~38,2	~34,3	~44,4
GAIN DE CRÊTE (DBI)	~3,7	~2,3	~3,1
GAIN MOYEN (DB)	~-4,2	~-4,7	~-3,5



Câble 8

PERTE DE RETOUR (DB)	~-16,5	~-15,5	~-7,9
VSWR	~1.4:1	~1.5:1	~1.5:1
EFFICIENCE (%)	~36,3	~28,4	~39,4
GAIN DE CRÊTE (DBI)	~4,4	~2,6	~3,1
GAIN MOYEN (DB)	~-4,4	~-5,5	~-4,0

Conditions de mesure de l'antenne :

- Montée sur plaque plastique de 30 × 30 × 0,25 cm
- 100 cm de Câble D302
- Mesurée dans une chambre anéchoïque certifiée CTIA 3D

SPÉCIFICATIONS

TYPE DE MONTAGE	Support adhésif
DIMENSIONS (MM)	198 × 127 × 15,7
MATÉRIAU RADÔME	ASA
COULEUR RADÔME	Noir
T° DE FONCTIONNEMENT (°C)	-40 à +85
T° DE STOCKAGE (°C)	-40 à +85
CERTIFICATION(S)	RoHS, CE
INDICE(S) DE PROTECTION	IP67, IP69

ENVIRONNEMENT

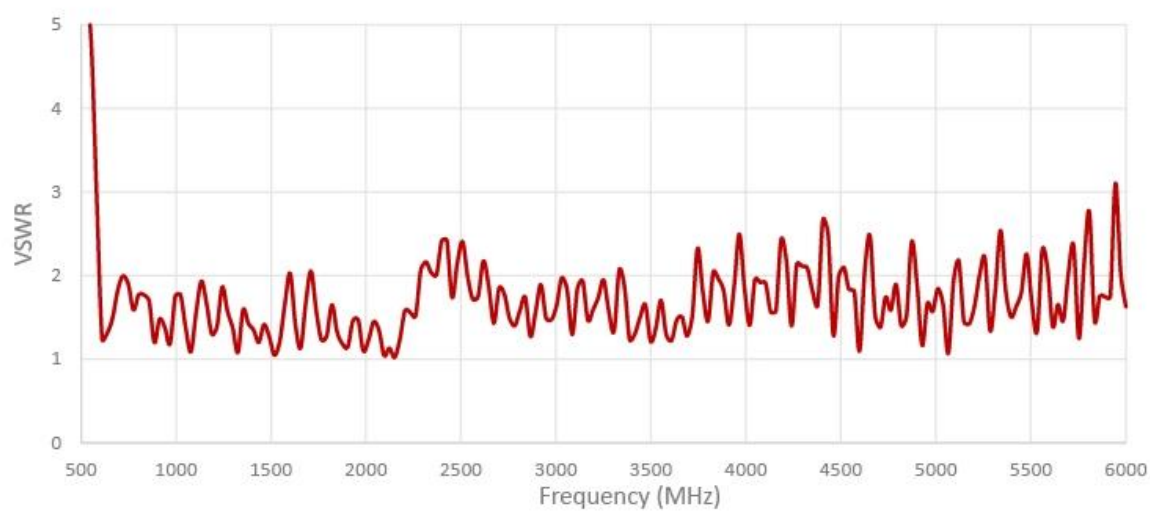
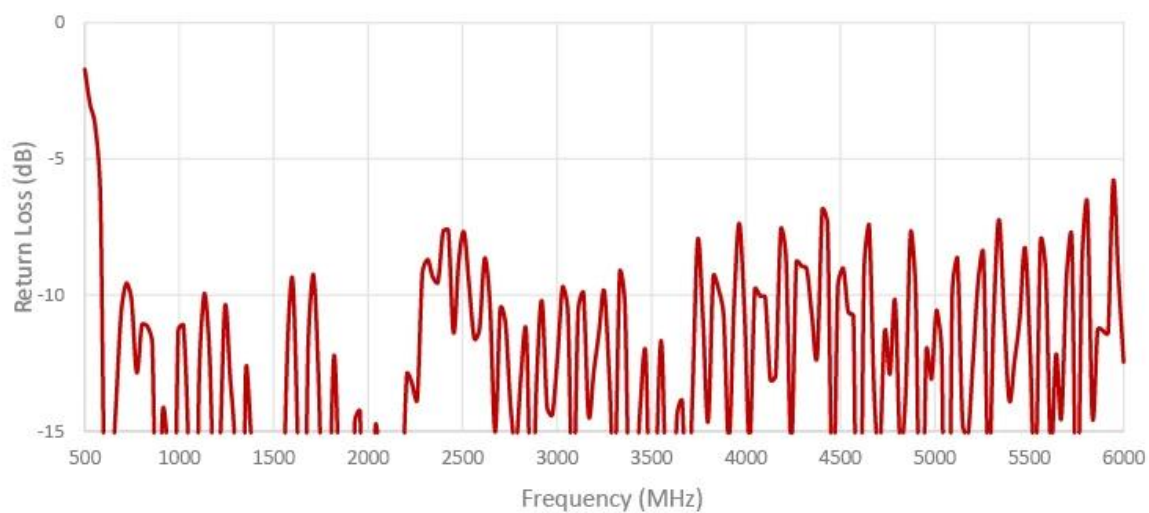
Cette gamme d'antenne est fabriquée sans matières dangereuses tout en maintenant une conformité totale avec REACH et RoHS.

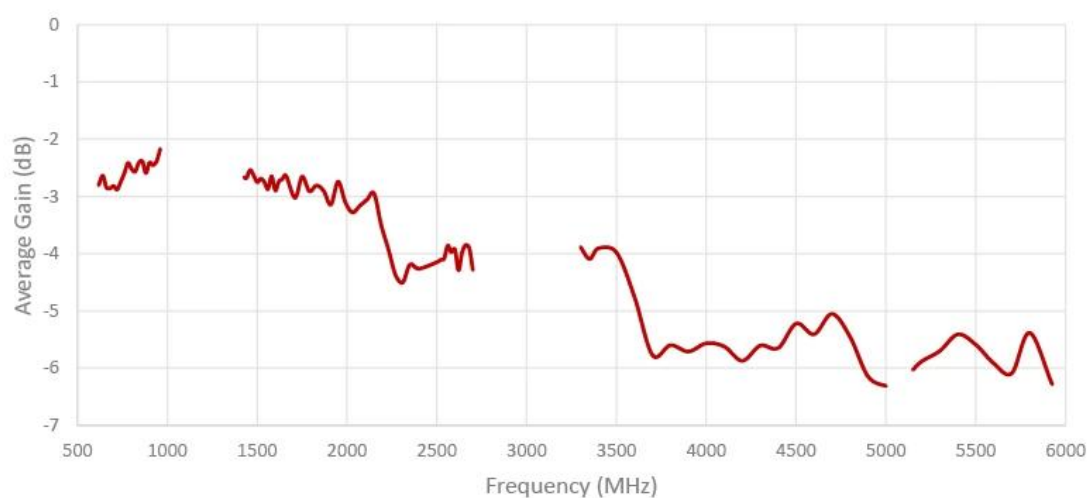
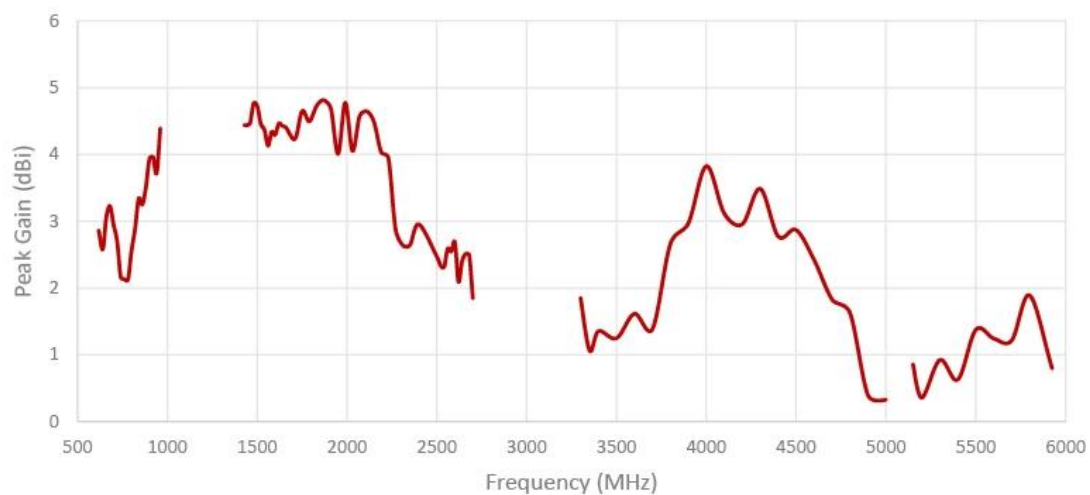
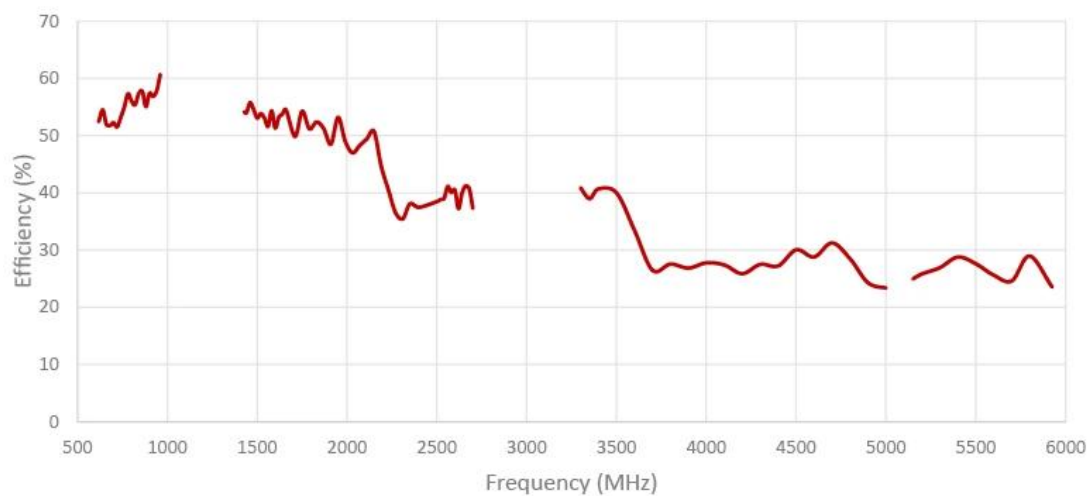




MESURES

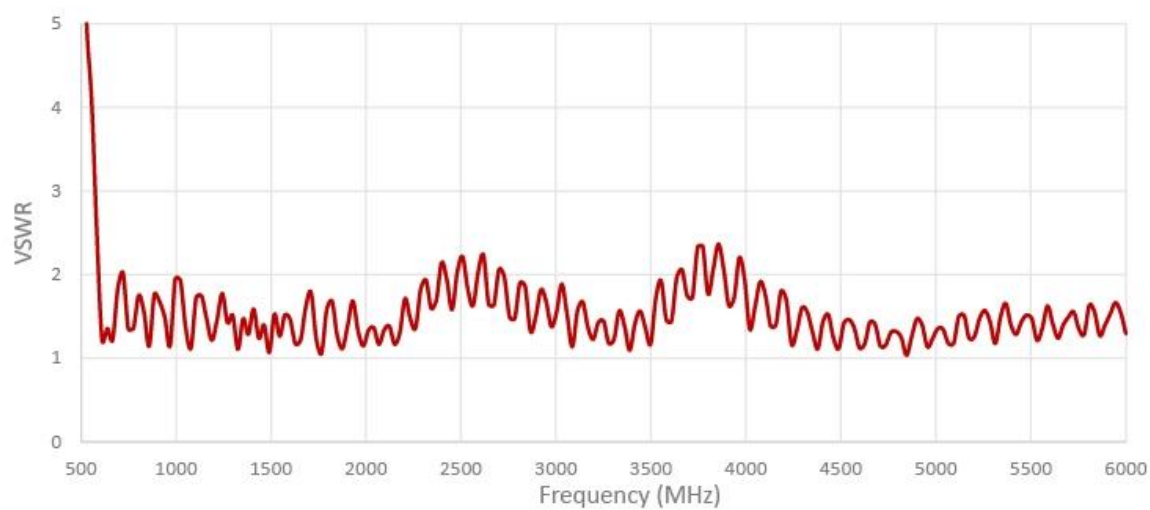
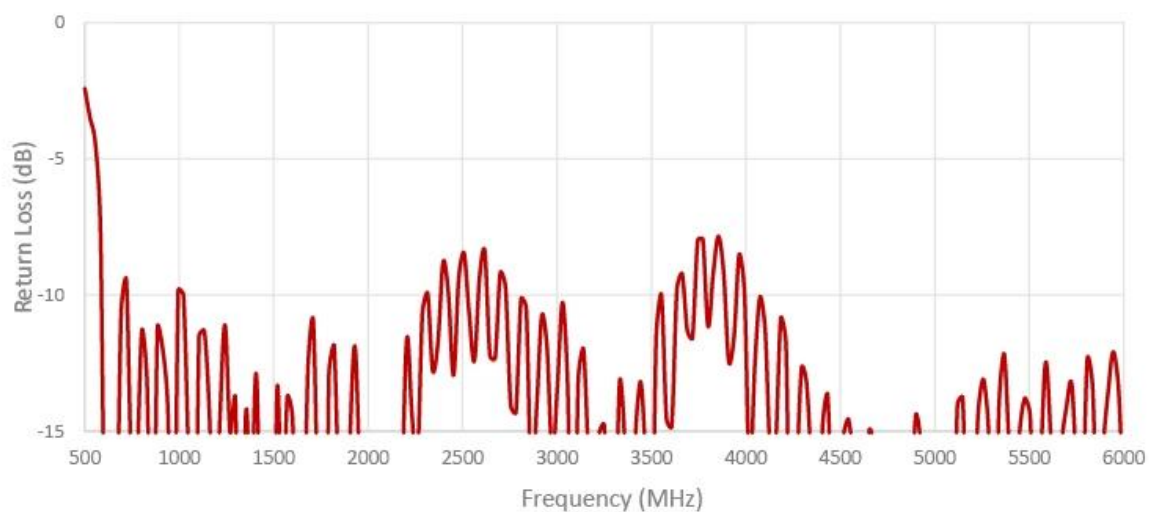
Cable 1: 5GNR

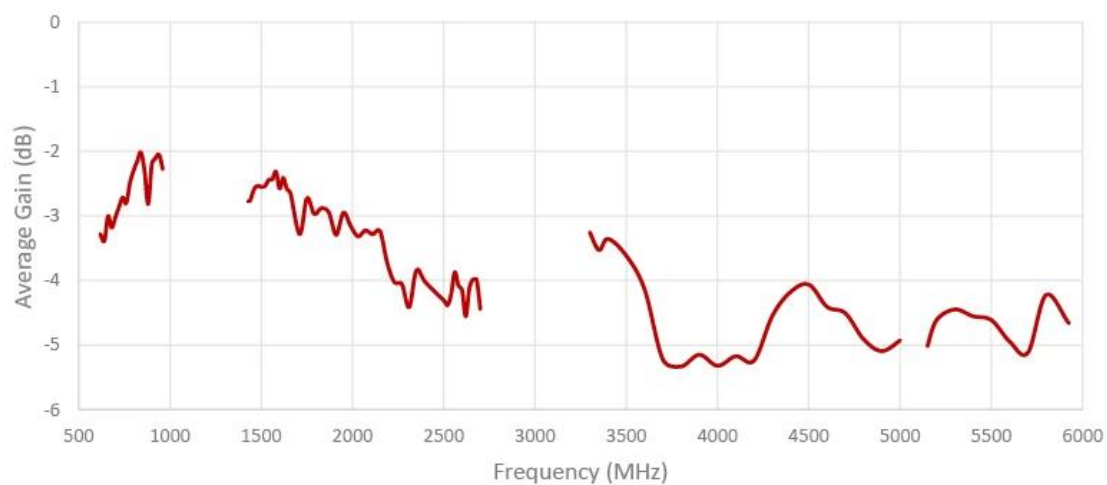
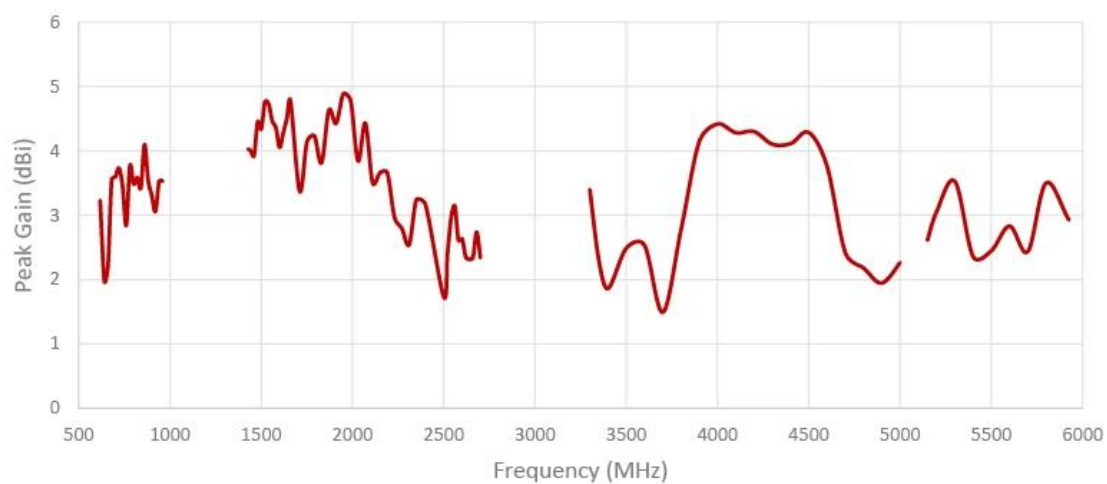
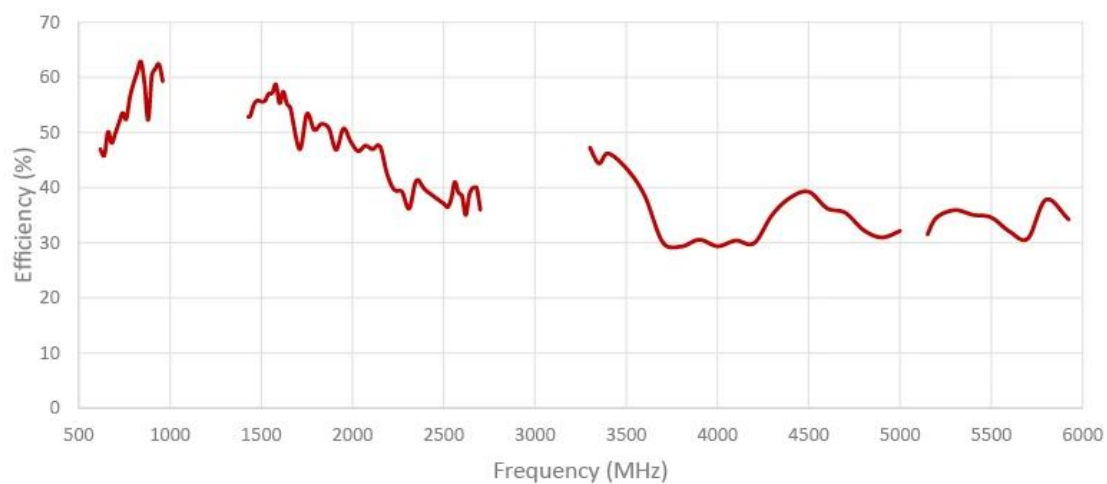






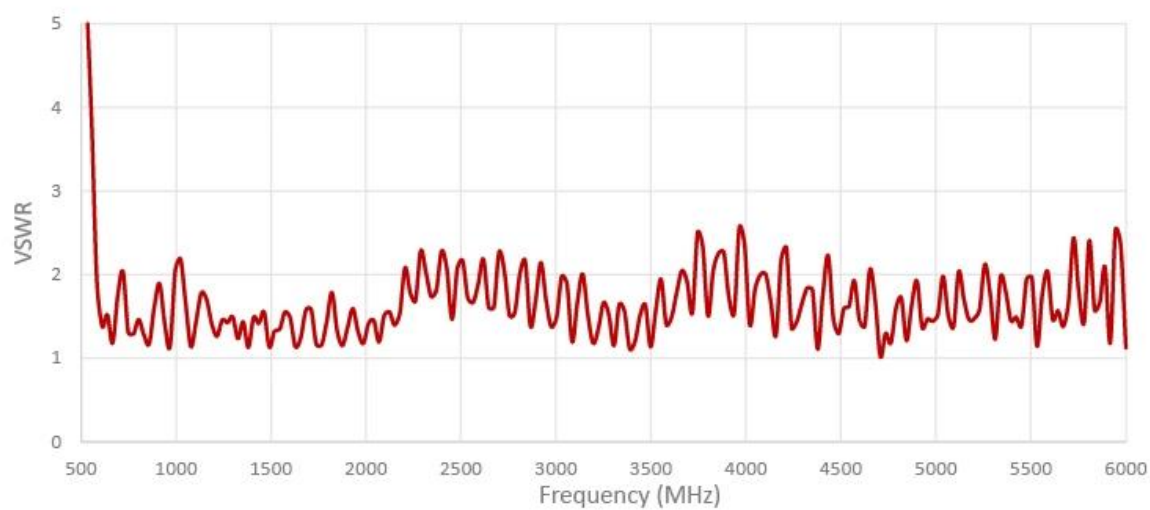
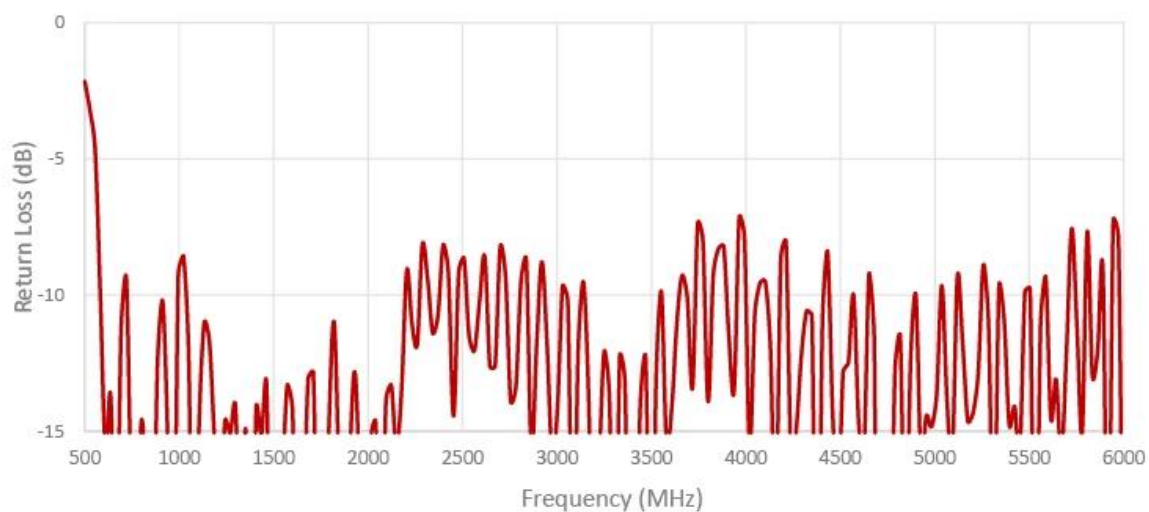
Cable 2: 5GNR

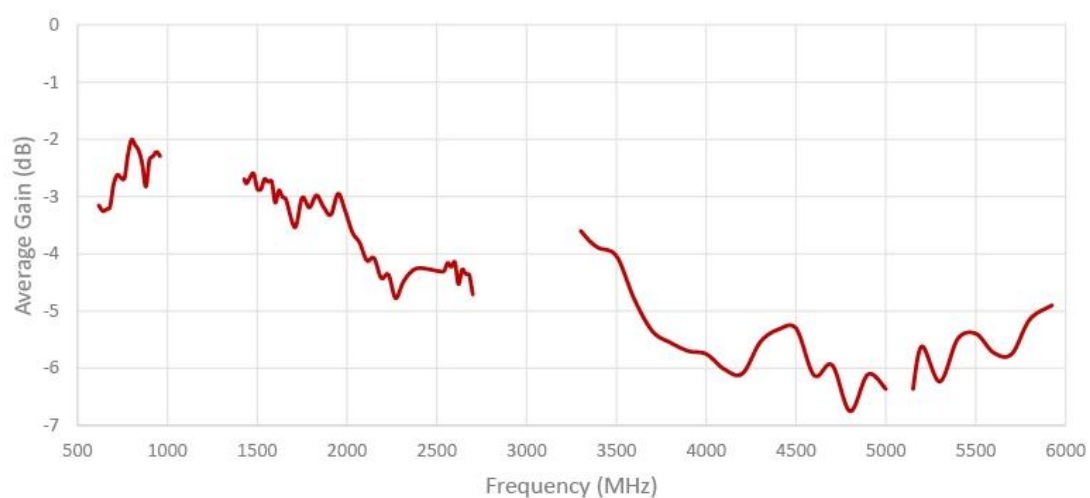
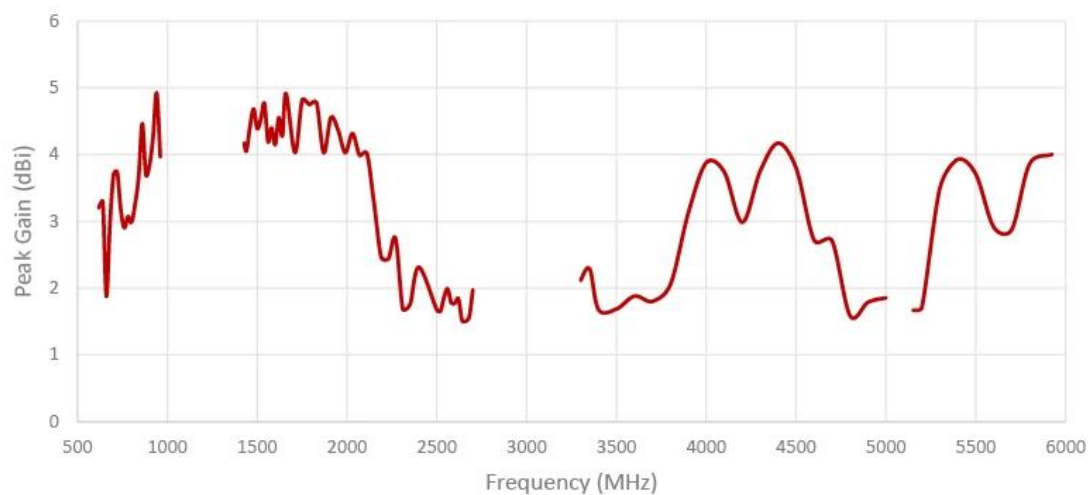
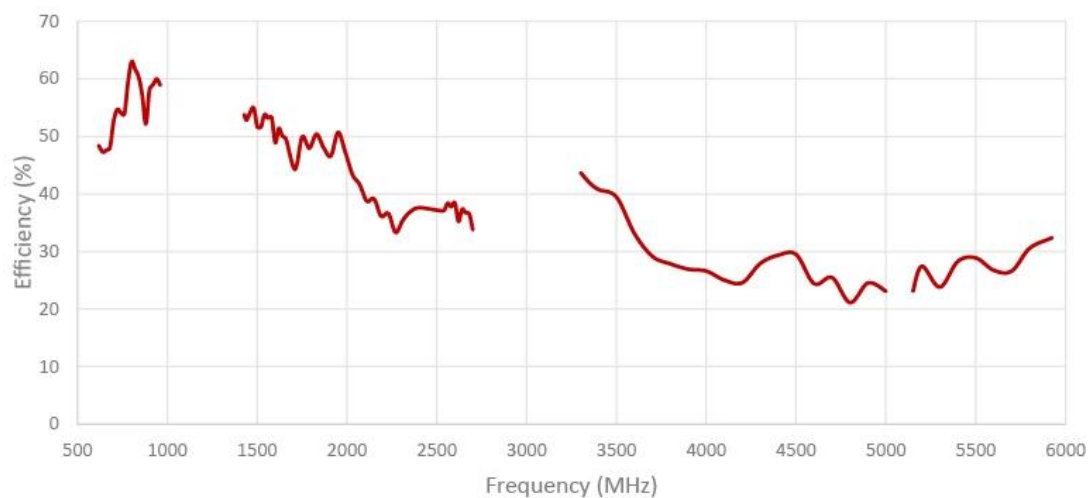






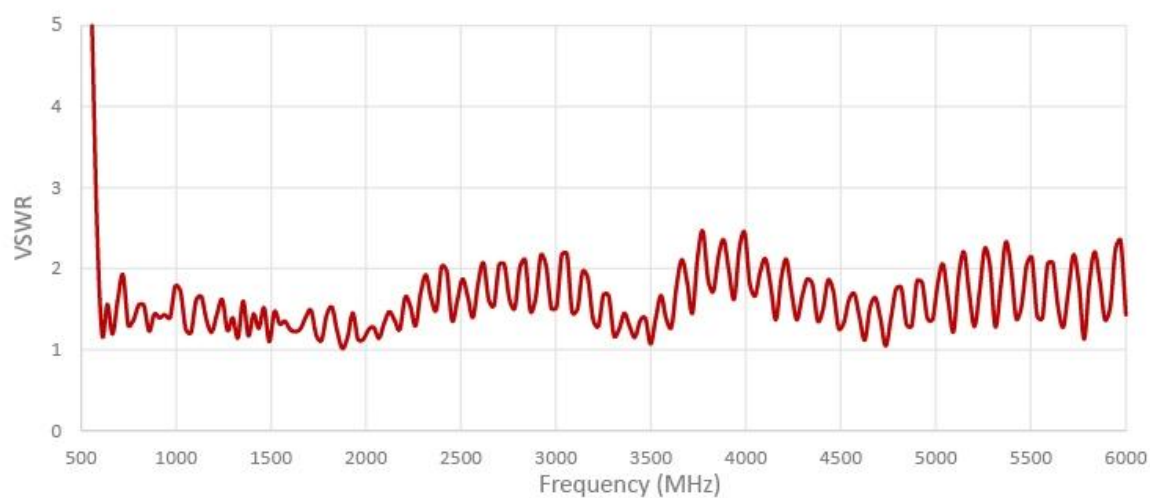
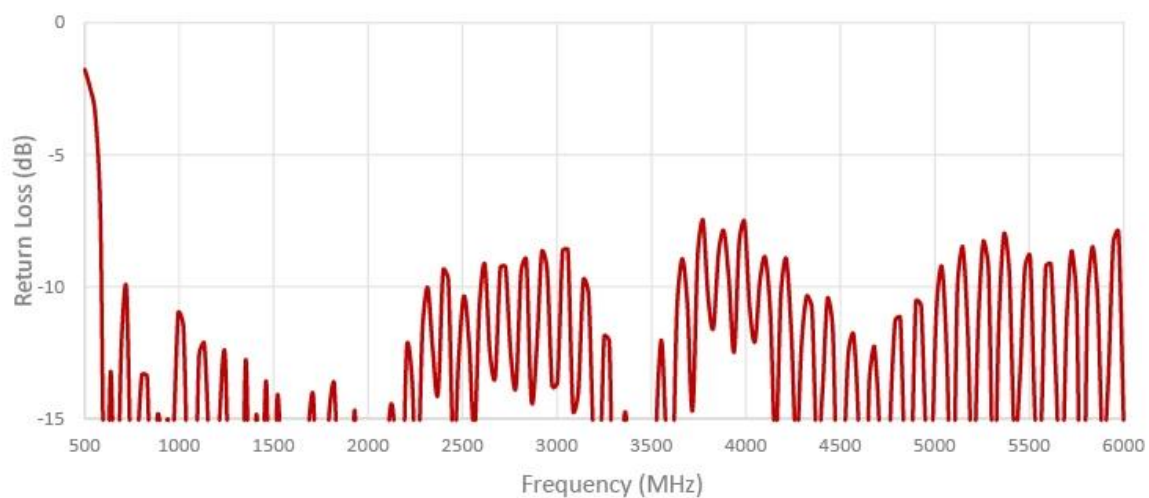
Cable 3: 5GNR

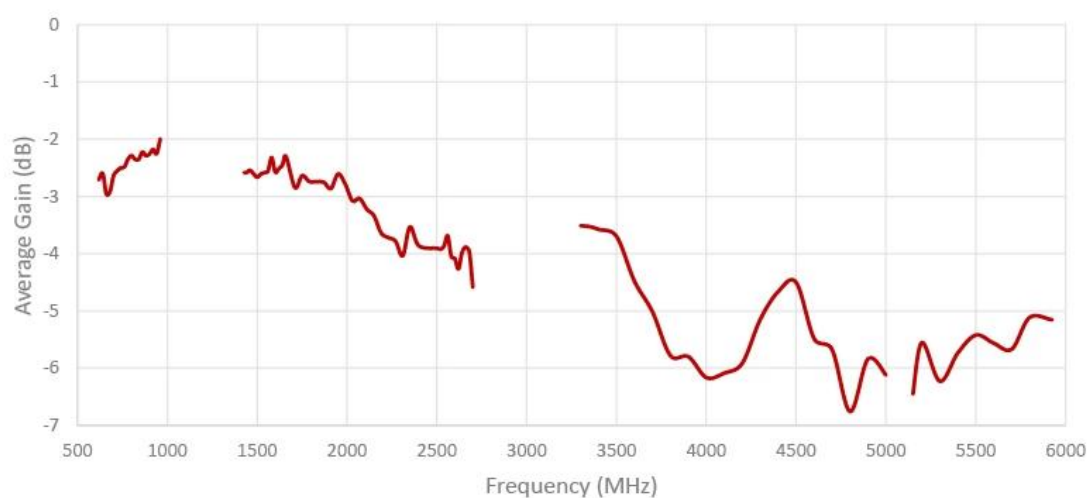
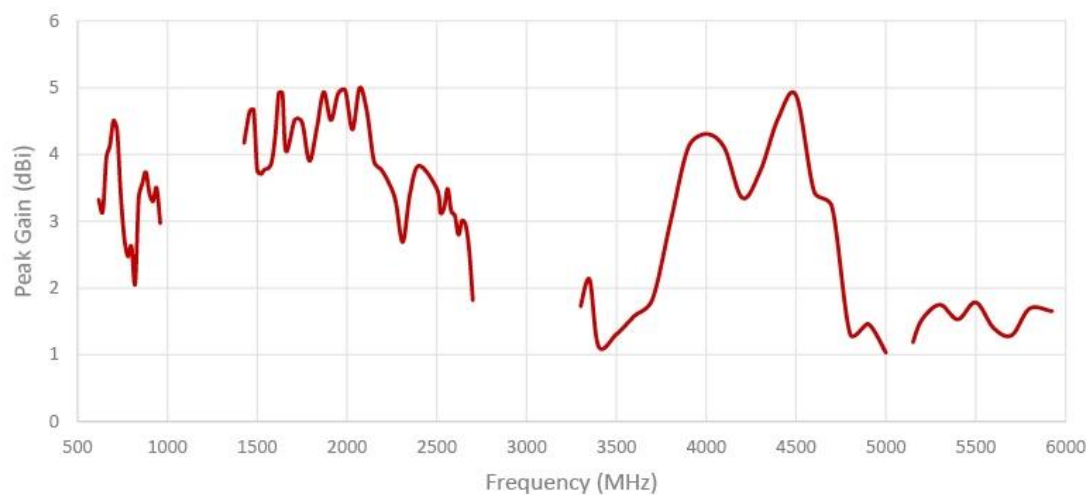
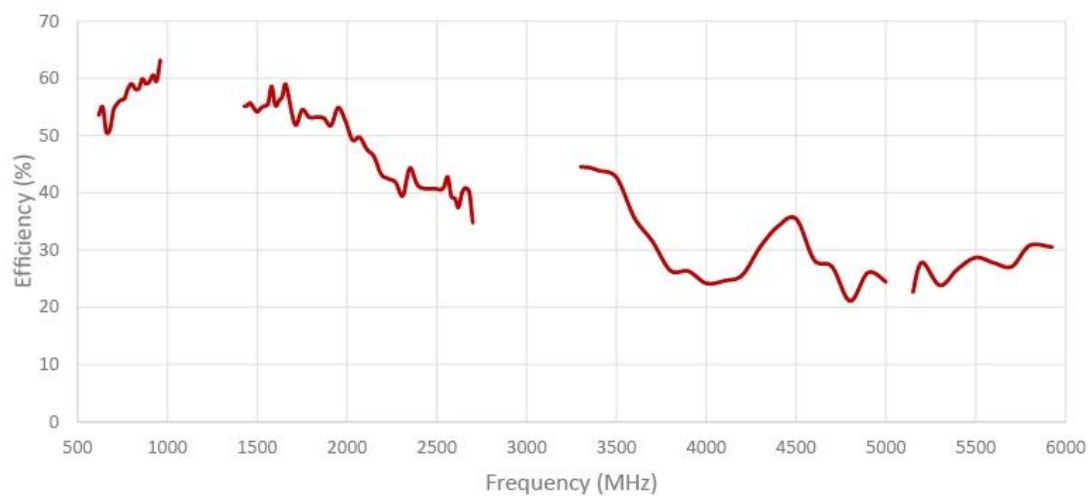






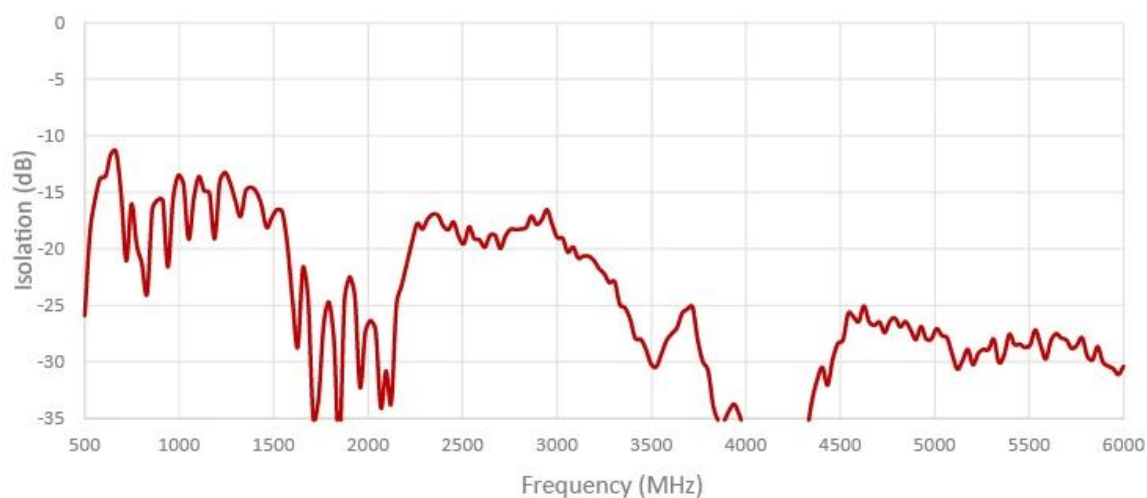
Cable 4: 5GNR



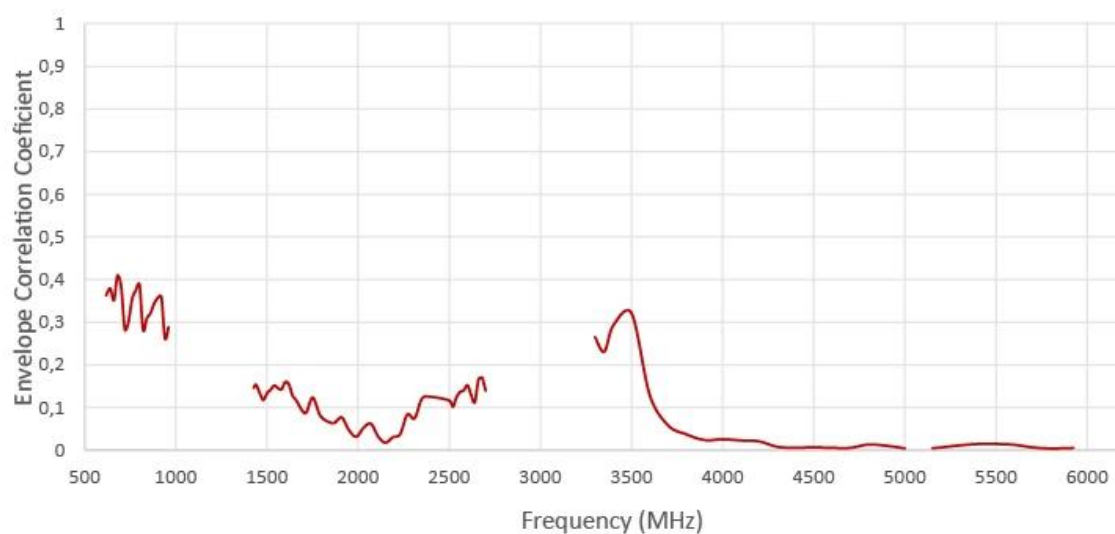




ISOLATION FOR CABLES 1 AND 2

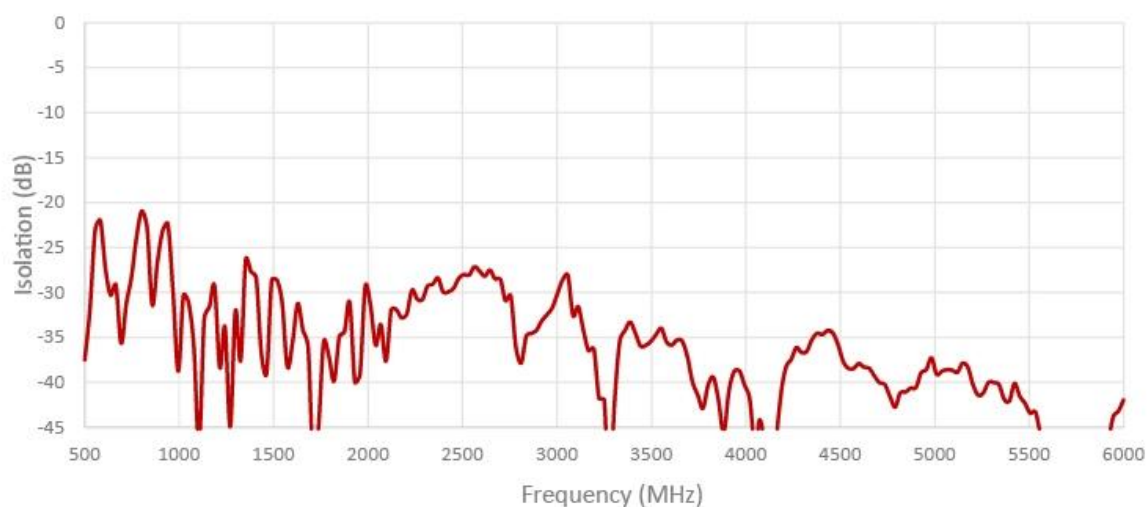


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

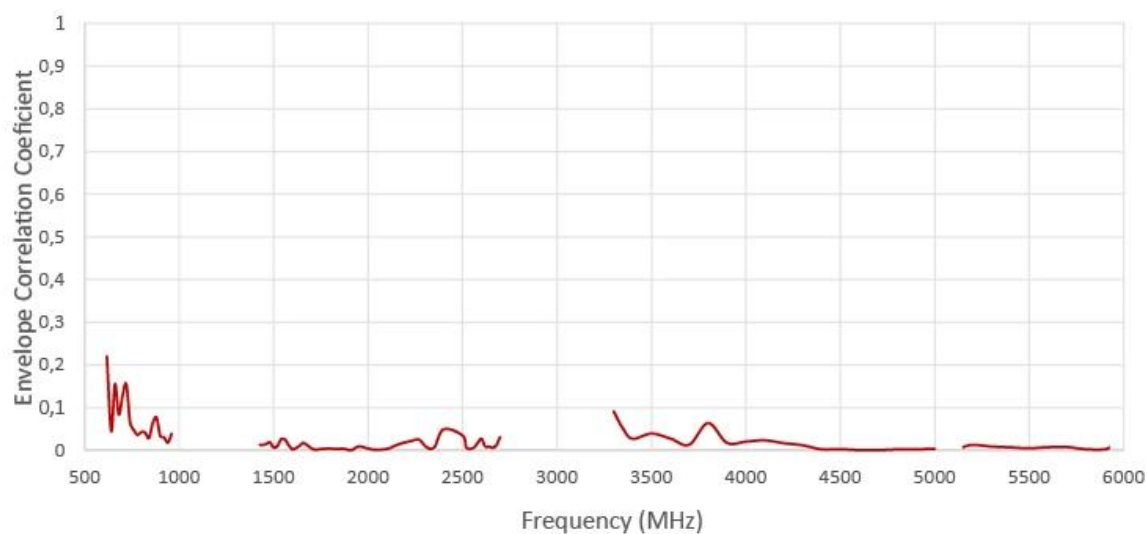




ISOLATION FOR CABLES 1 AND 3

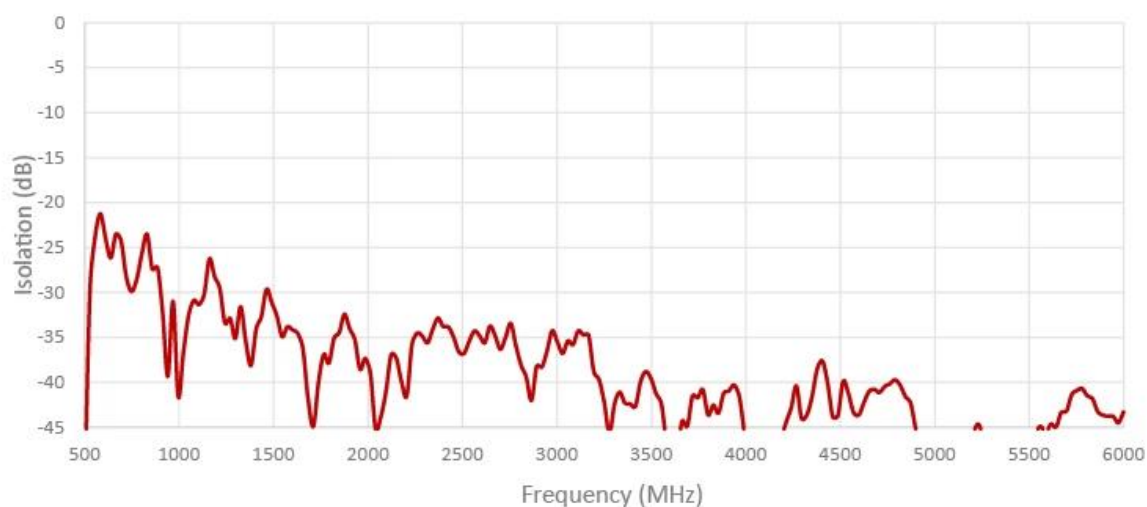


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 3

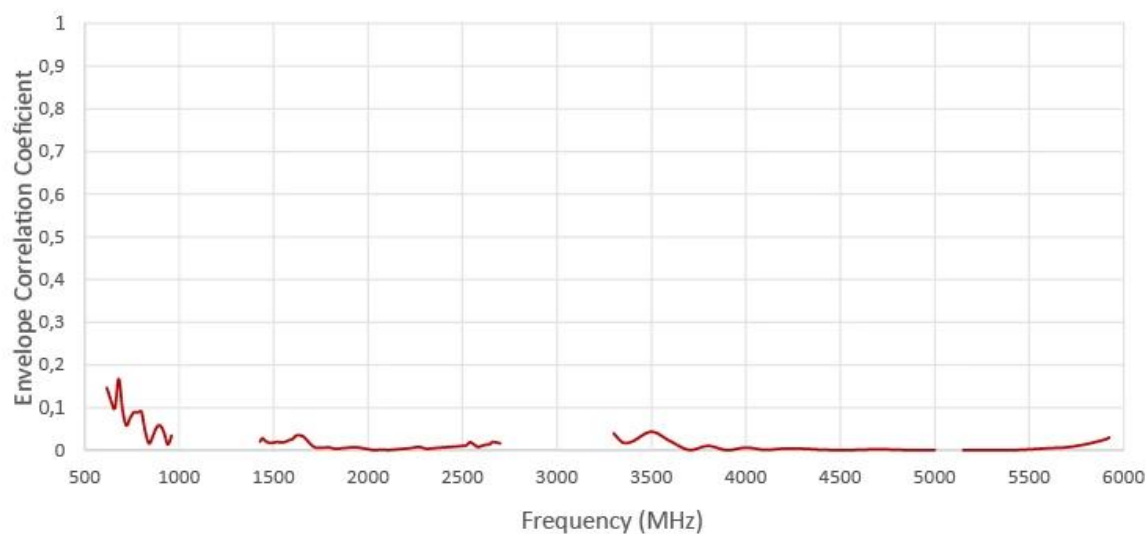




ISOLATION FOR CABLES 1 AND 4

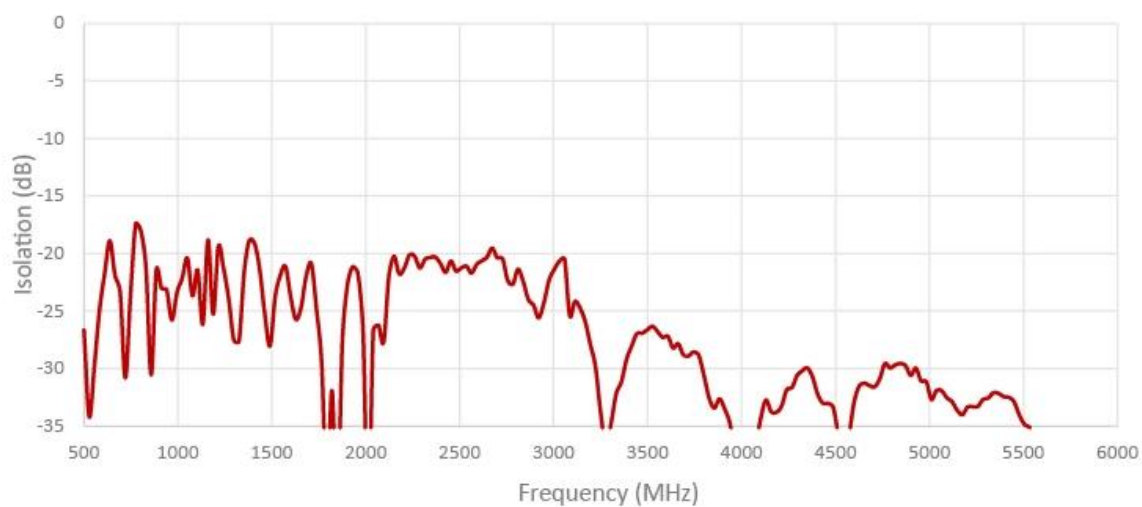


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 4

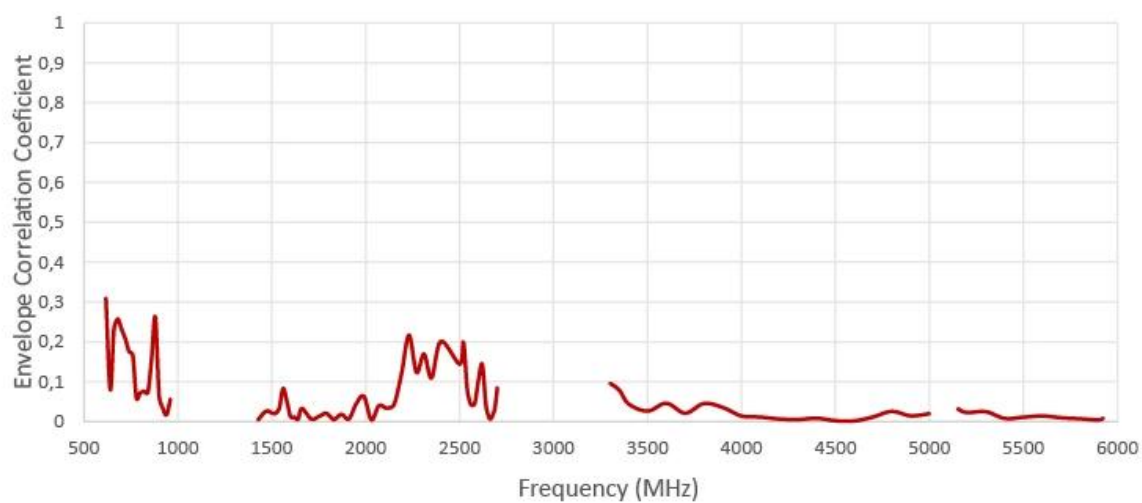




ISOLATION FOR CABLES 2 AND 3

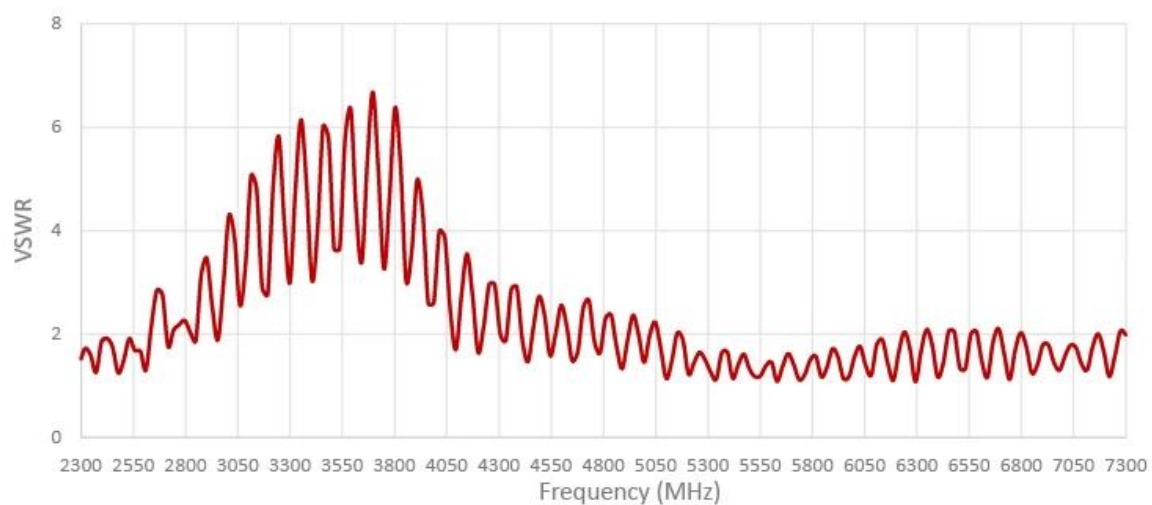
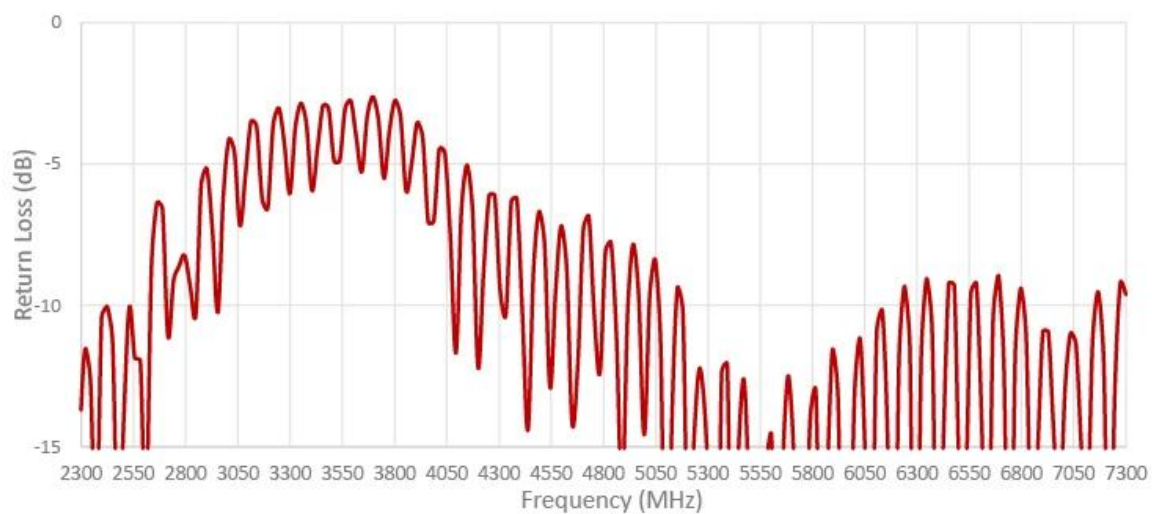


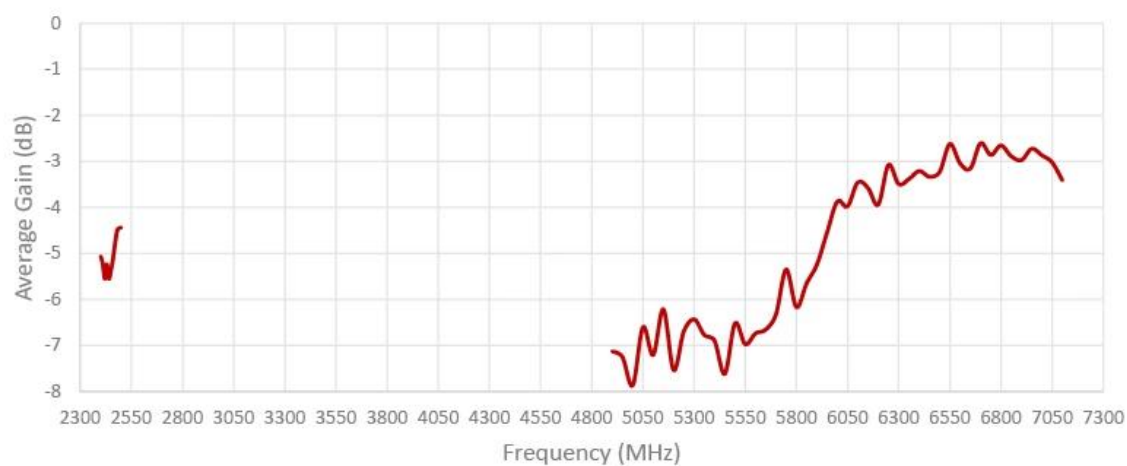
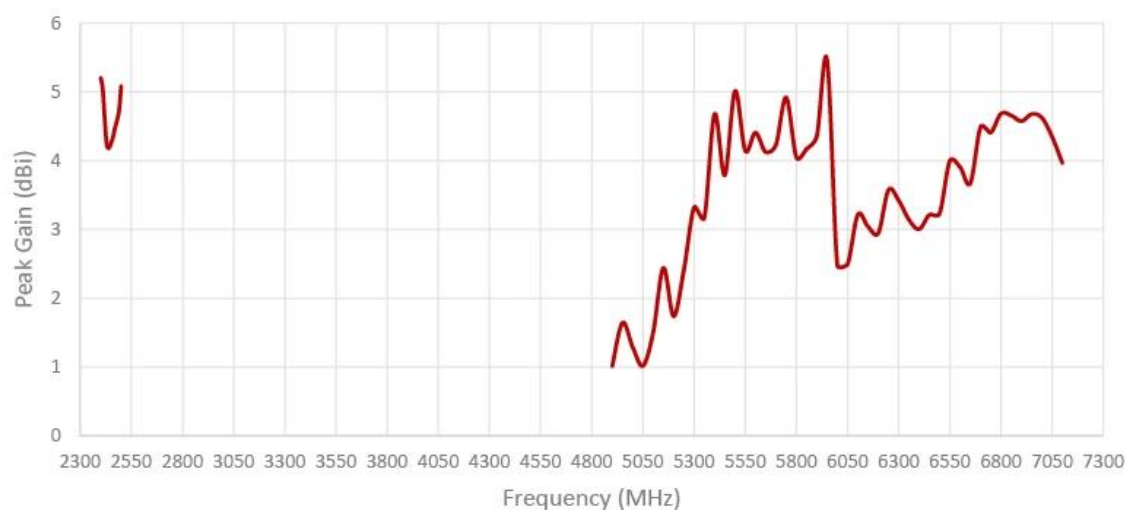
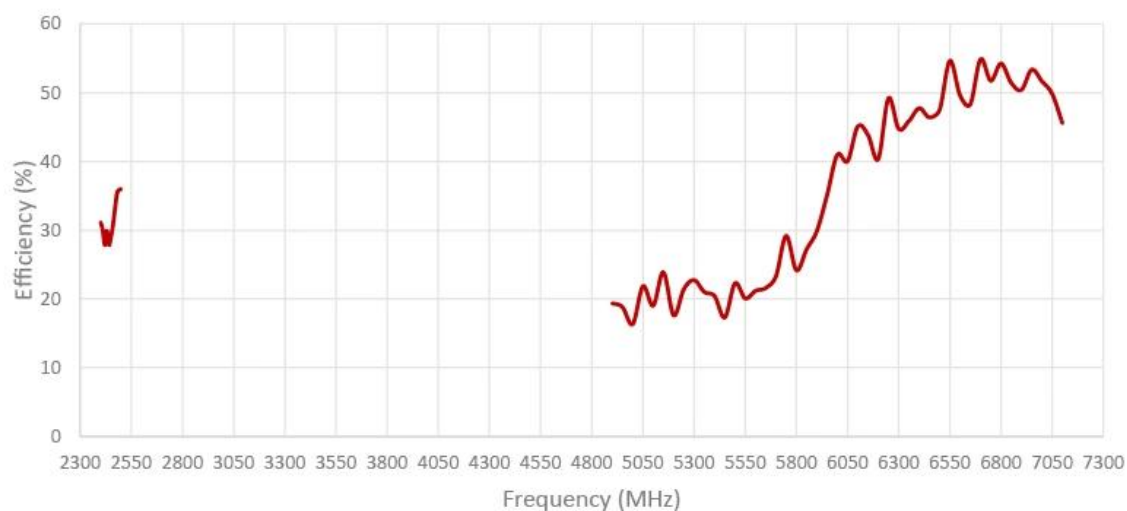
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 2 AND 3





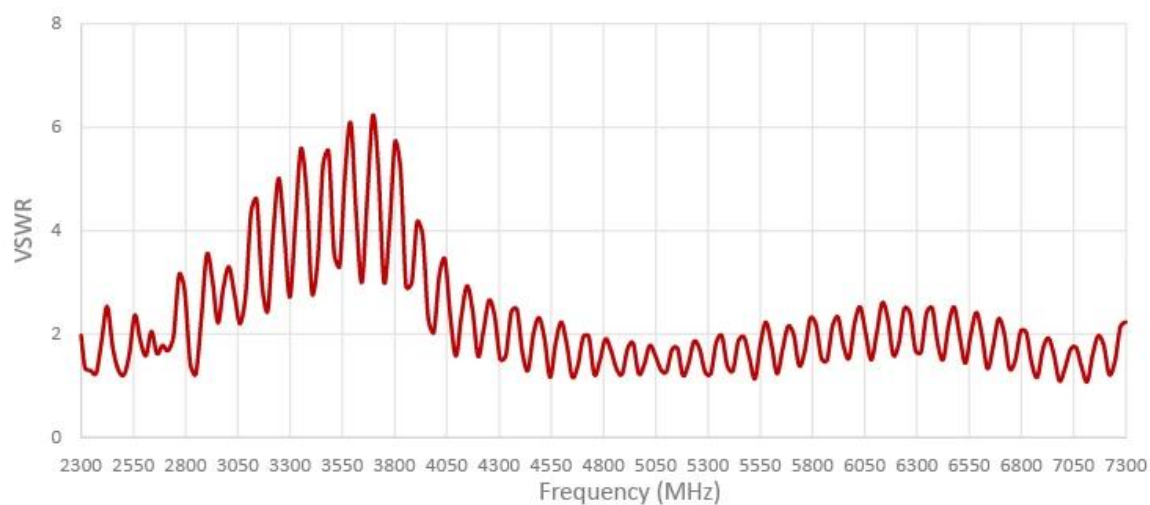
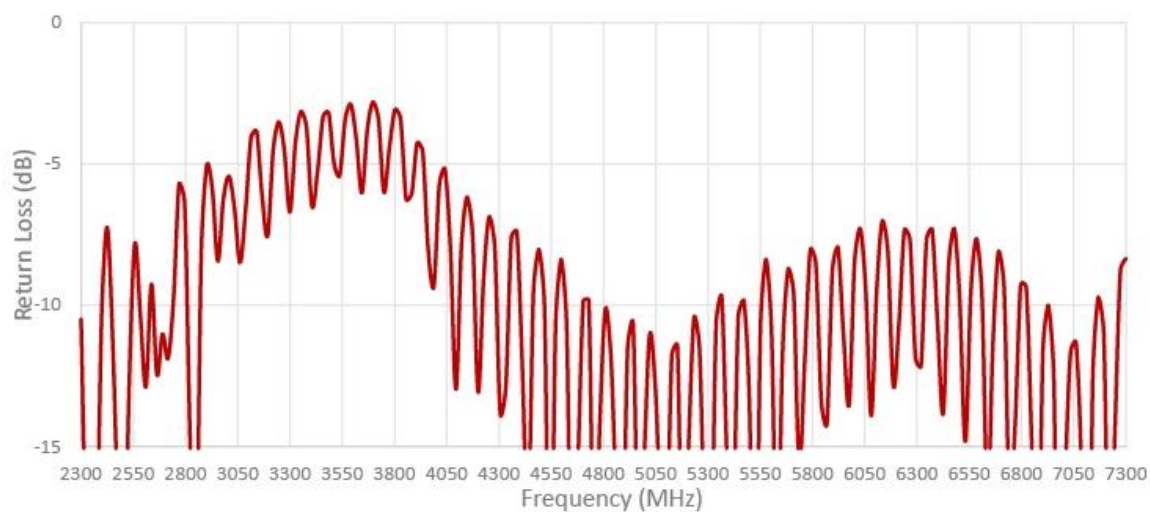
Cable 5: 2.4/5.0/6.0 GHz ISM

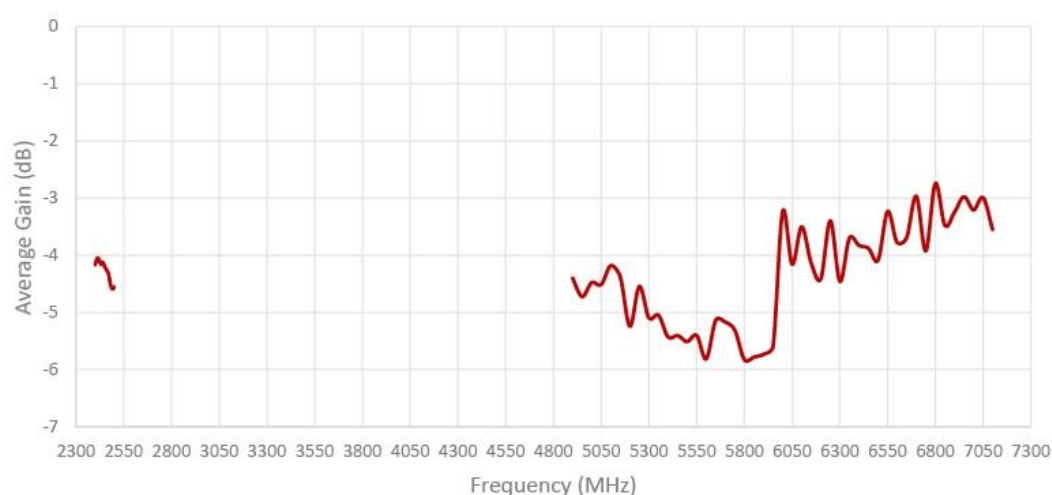
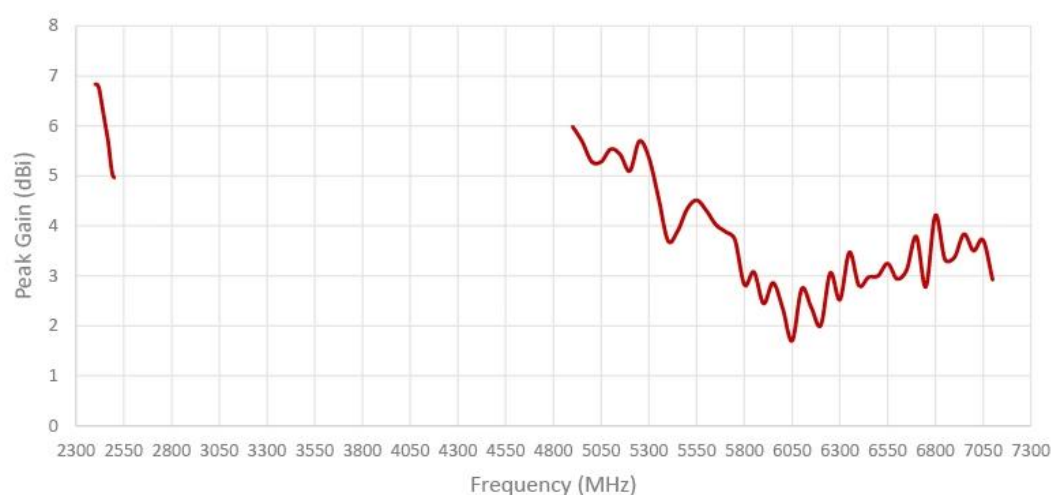
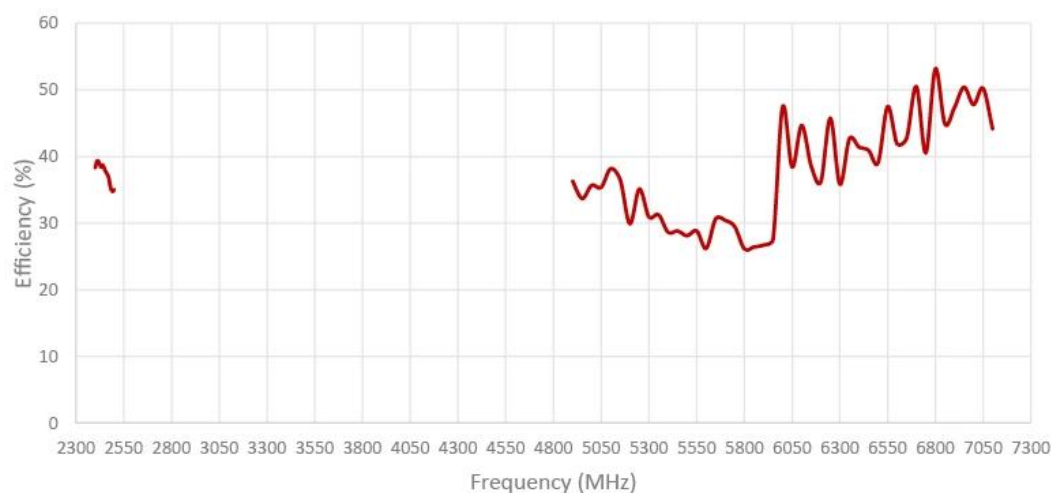






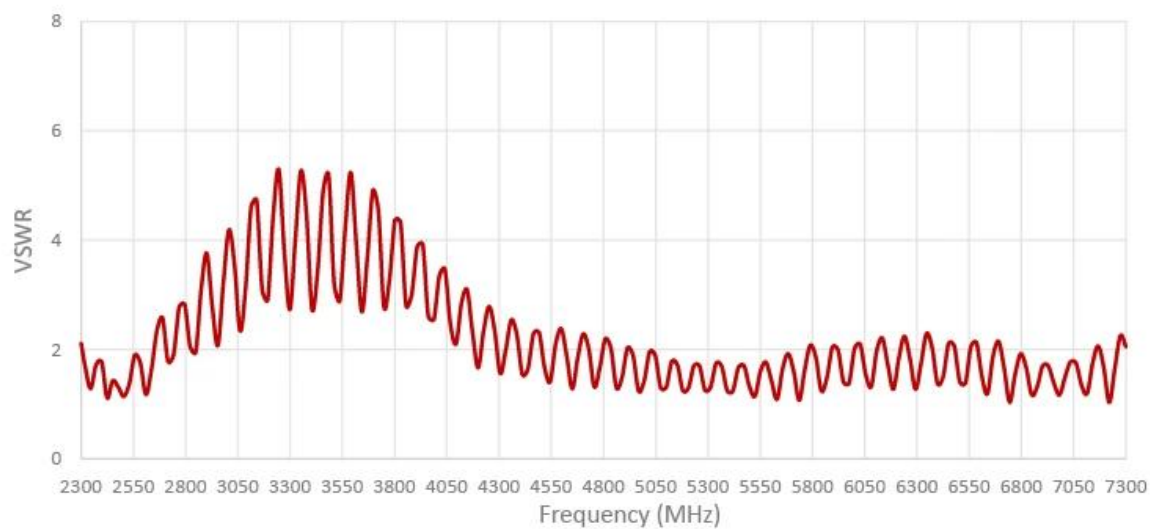
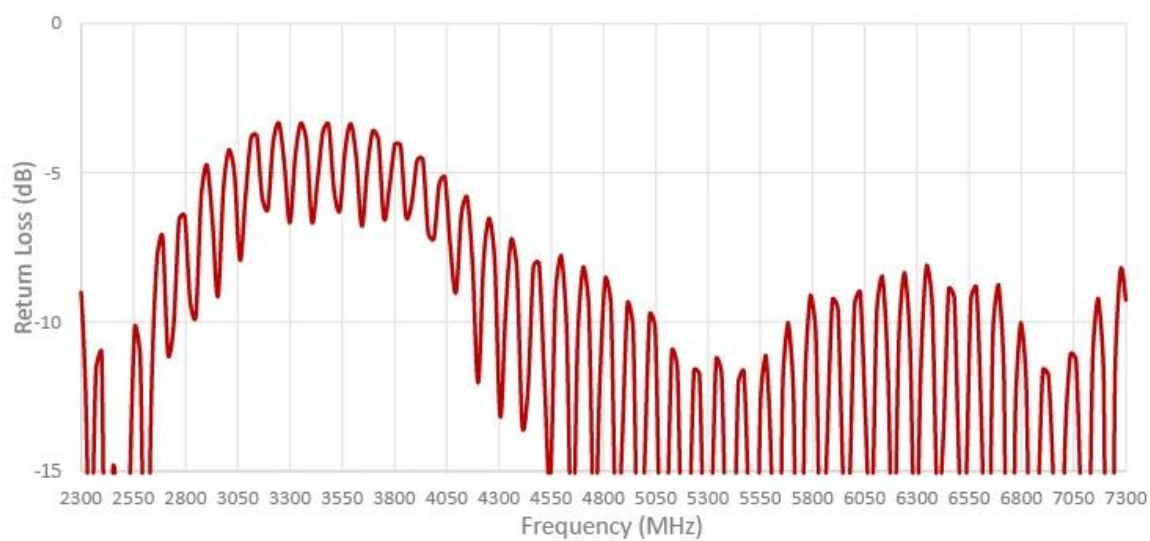
Cable 6: 2.4/5.0/6.0 GHz ISM

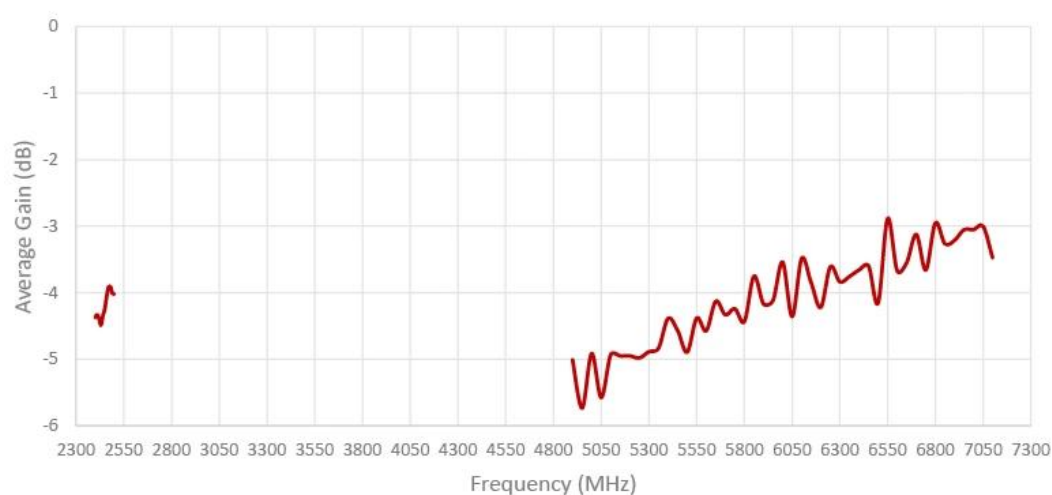
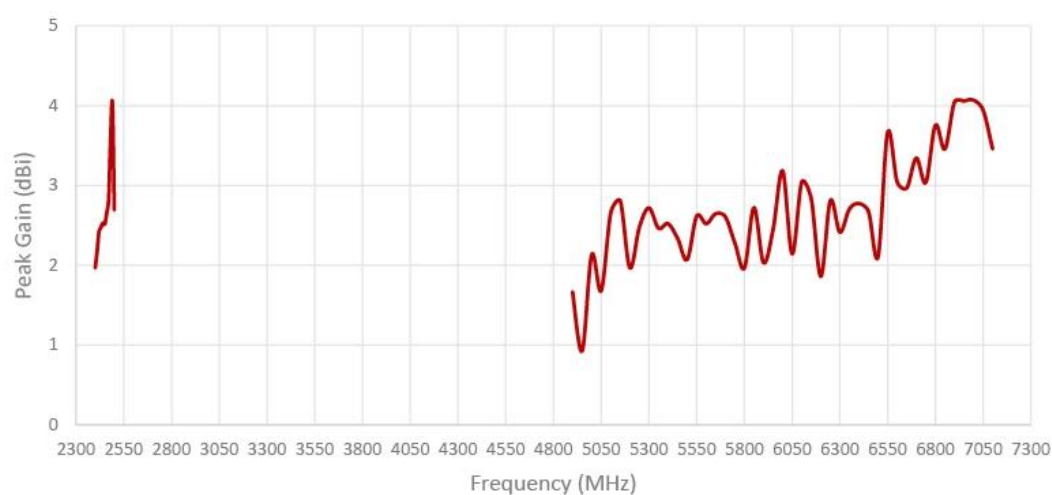
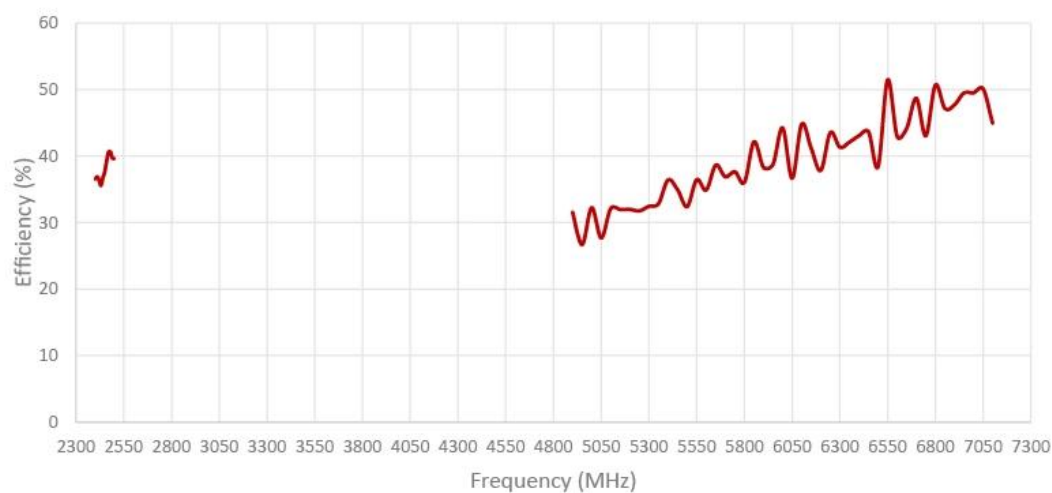






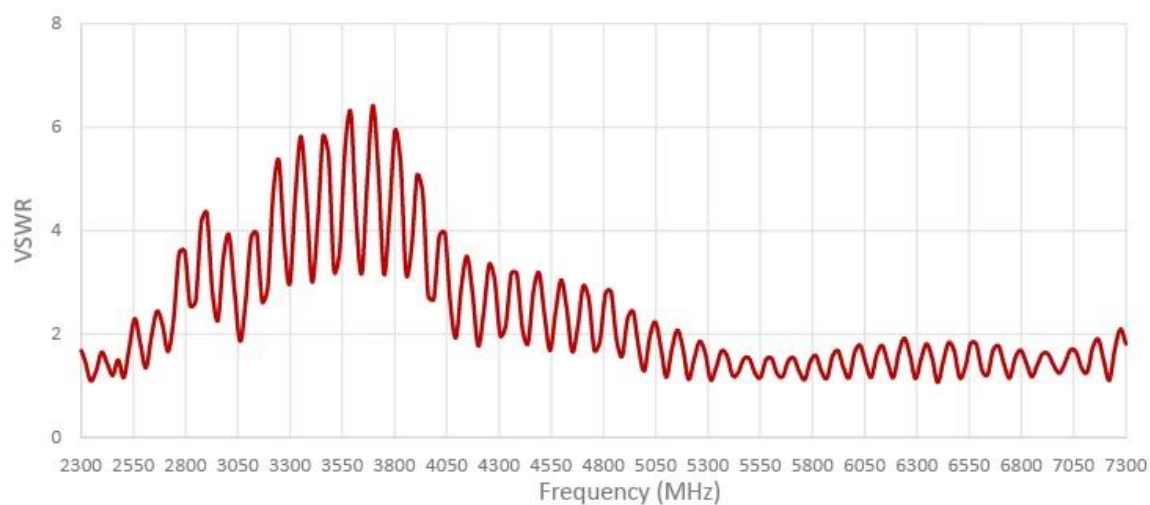
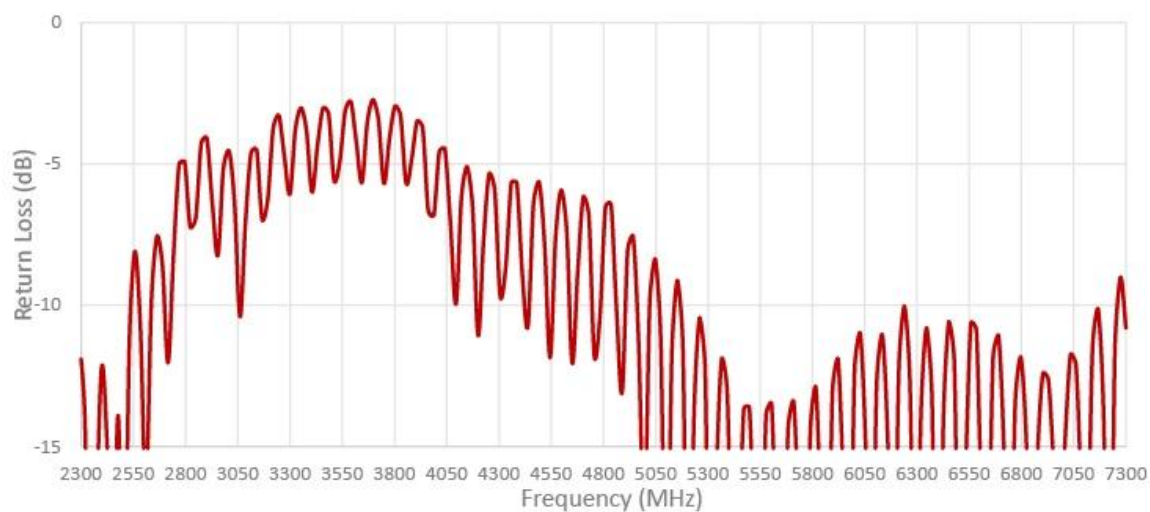
Cable 7: 2.4/5.0/6.0 GHz ISM

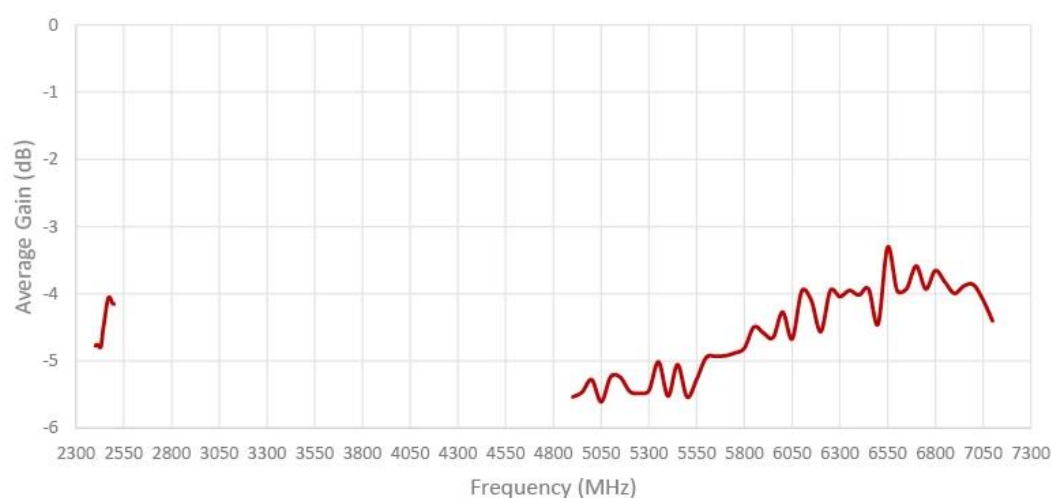
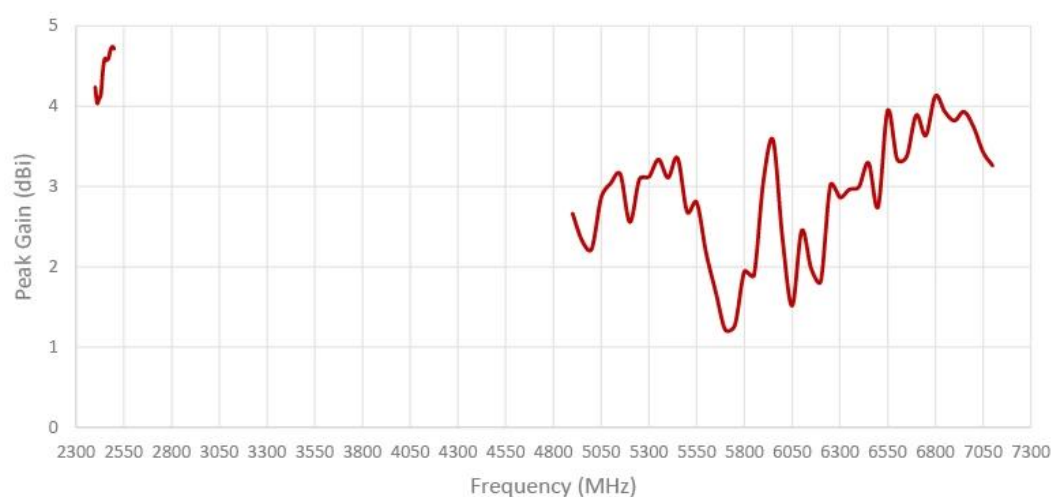
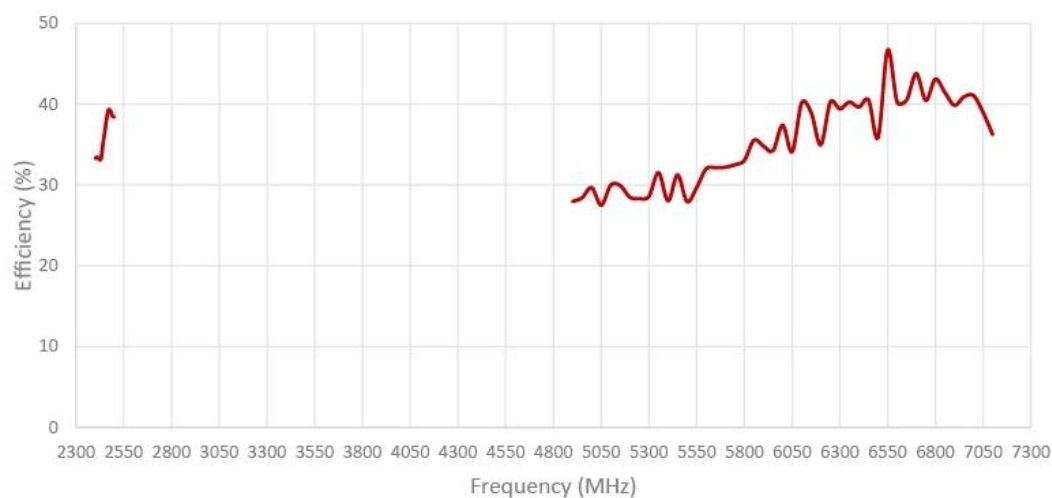






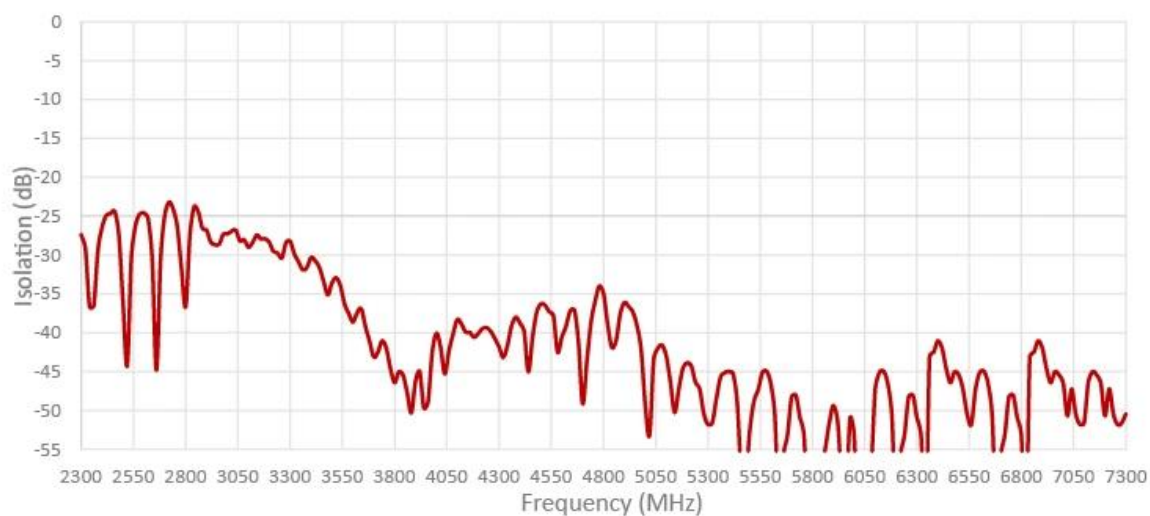
Cable 8: 2.4/5.0/6.0 GHz ISM



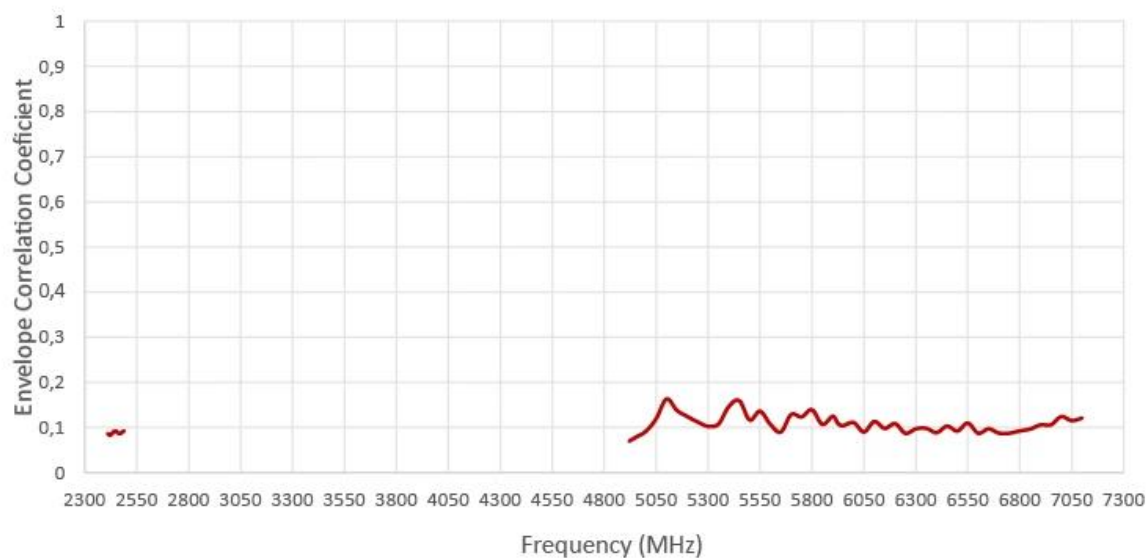




ISOLATION FOR CABLES 5 AND 6

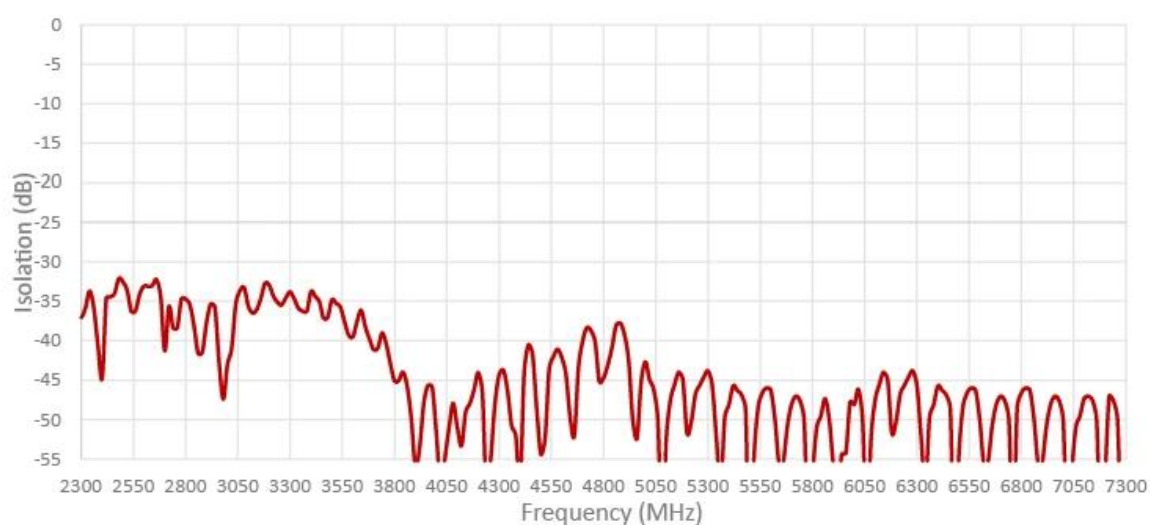


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 6

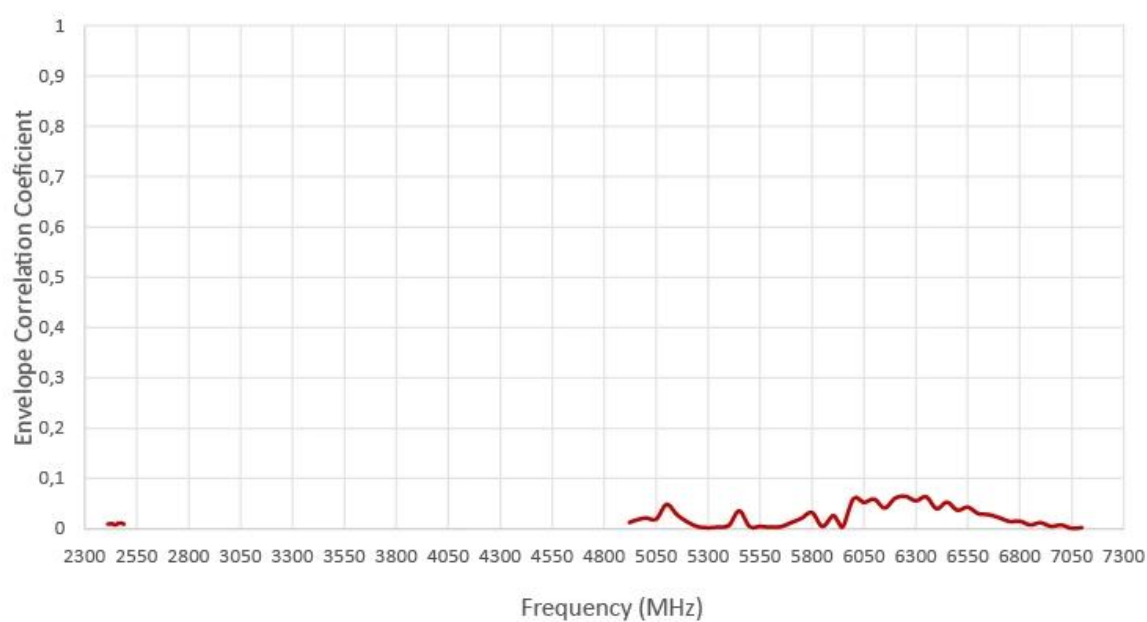




ISOLATION FOR CABLES 5 AND 7

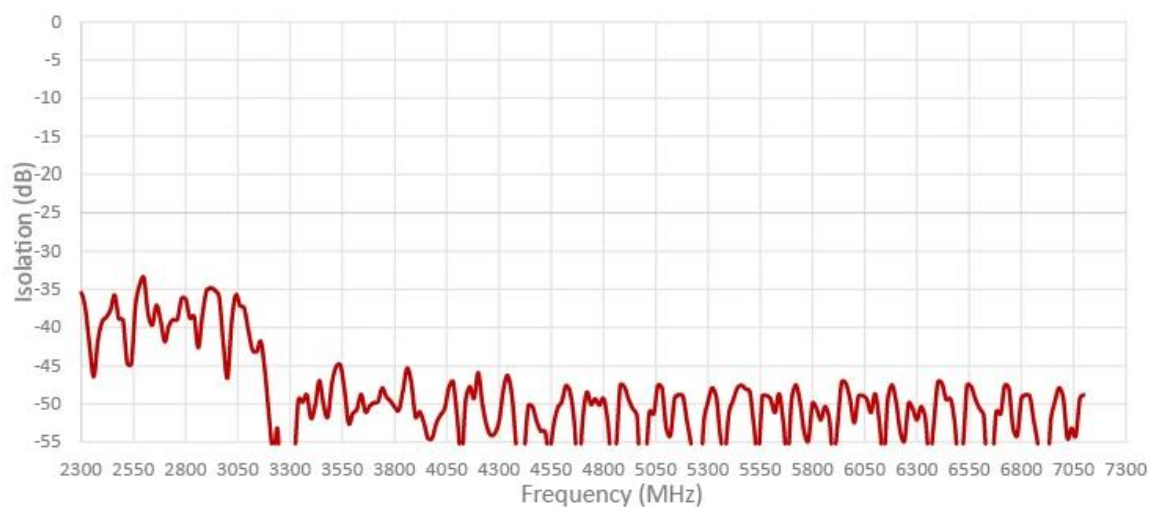


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 7

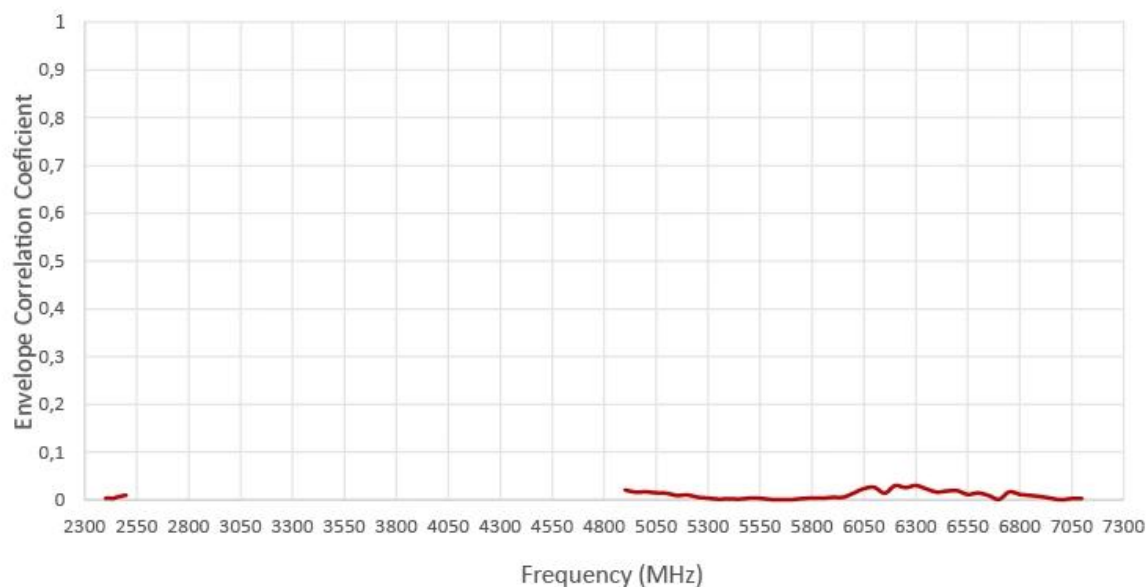




ISOLATION FOR CABLES 5 AND 8

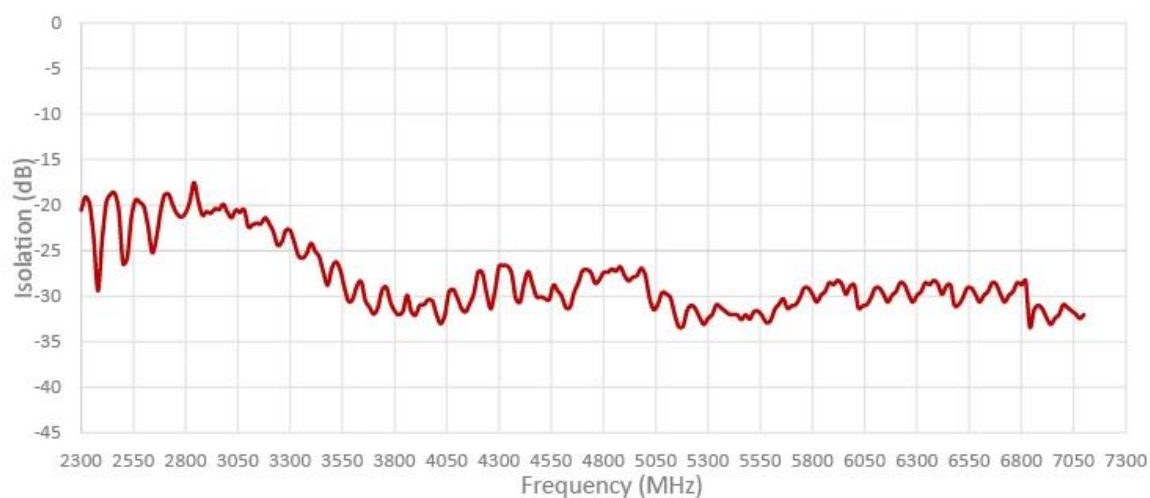


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 8

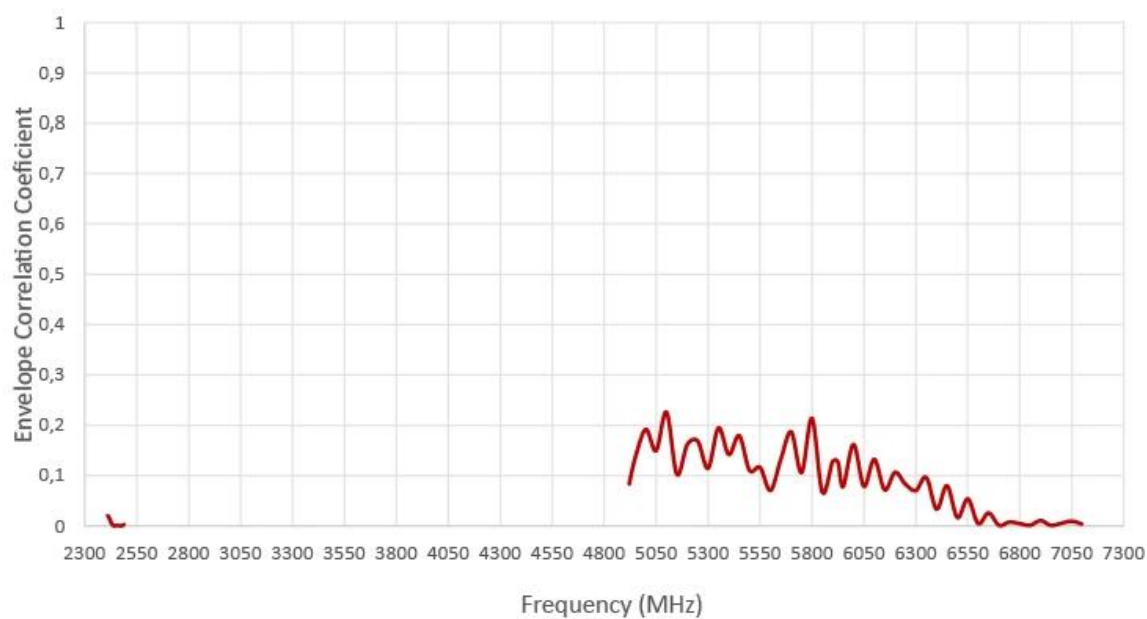


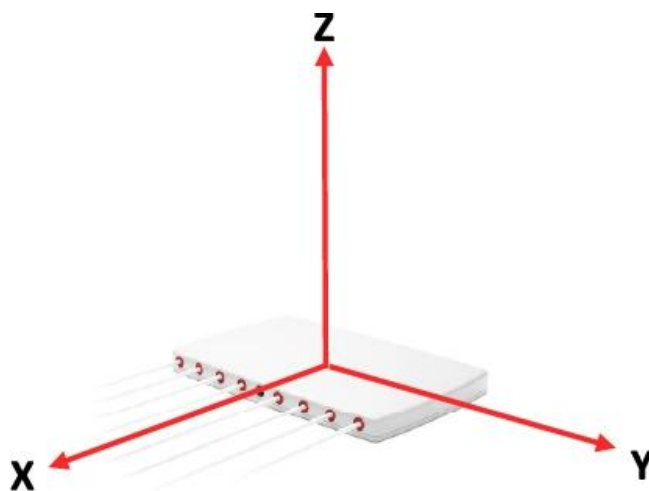


ISOLATION FOR CABLES 6 AND 7



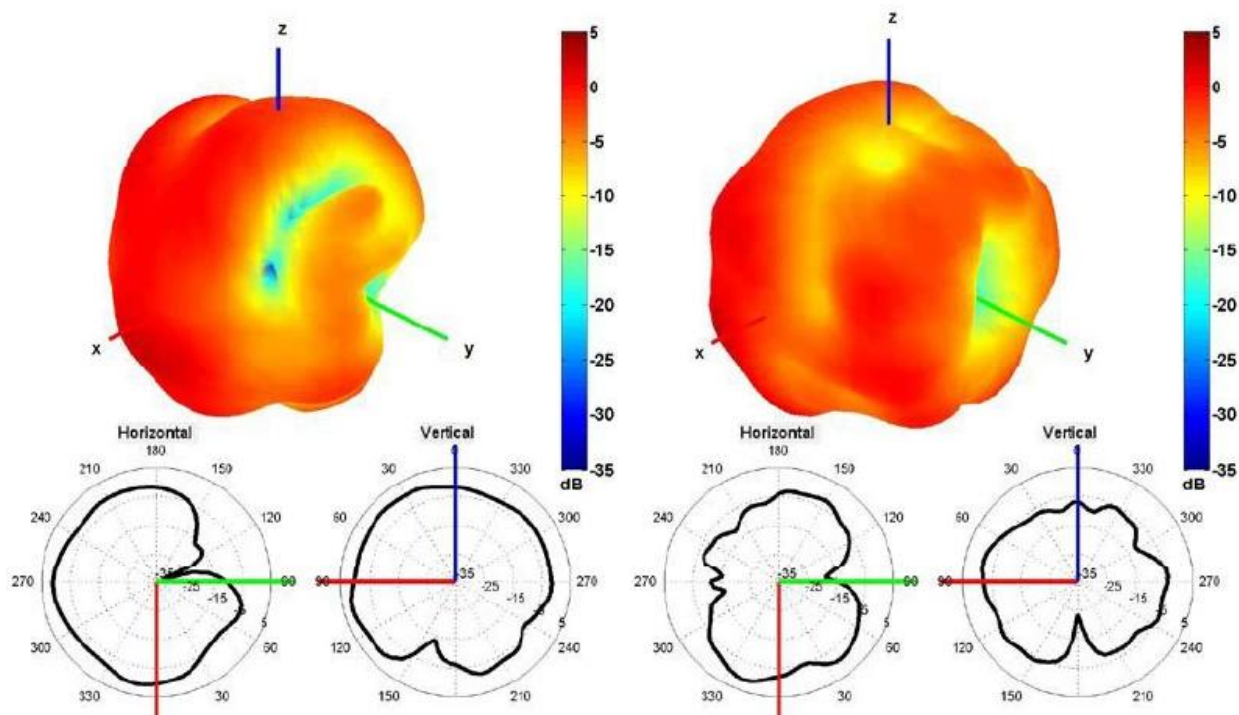
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 6 AND 7



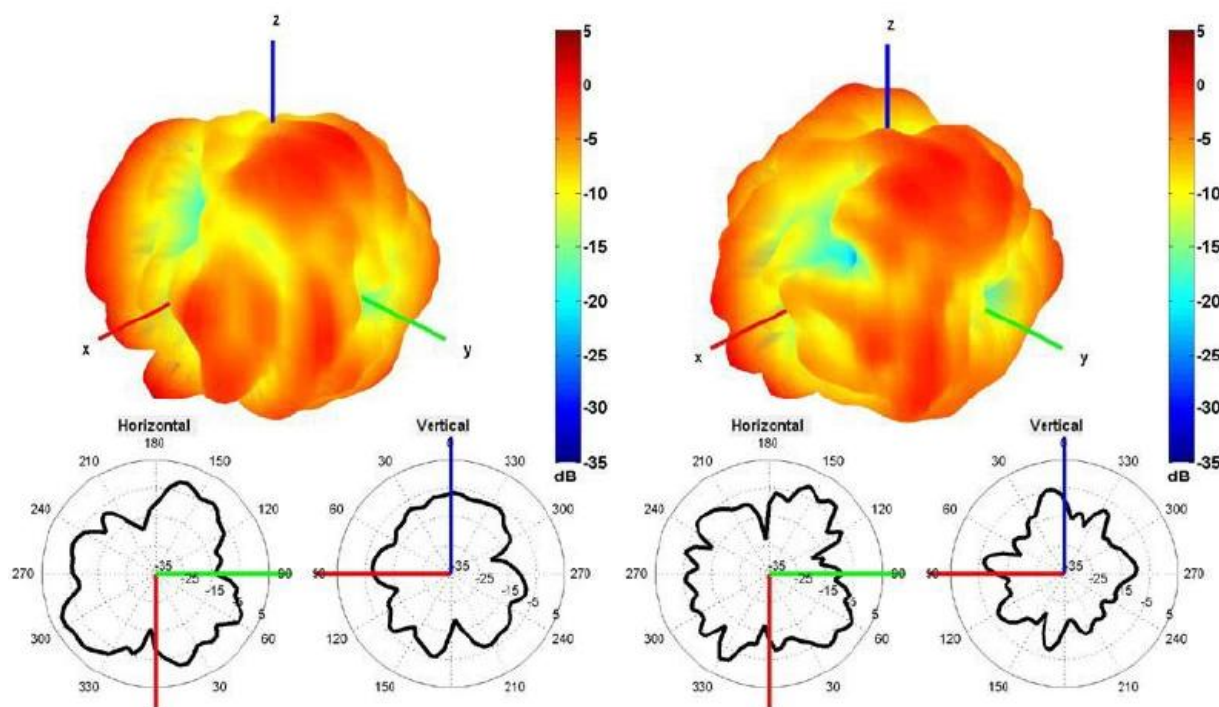


Radiation pattern reference

Cable 1: 5GNR

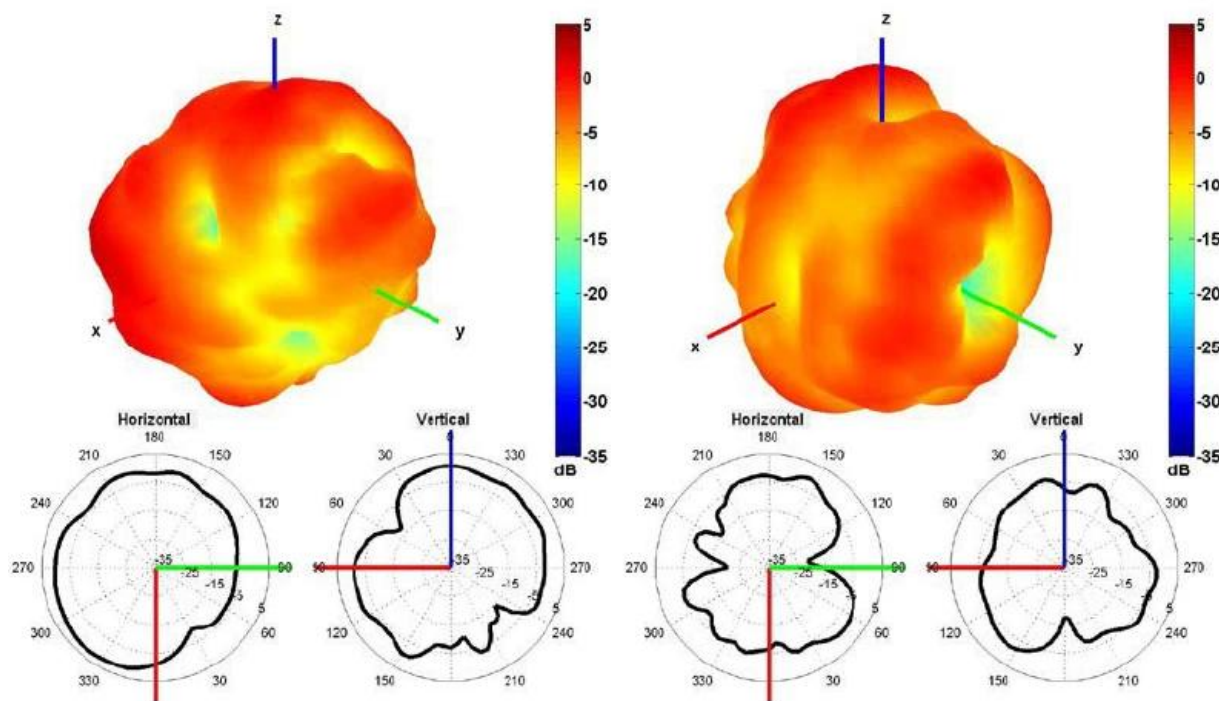


750 and 2500 MHz Radiation pattern

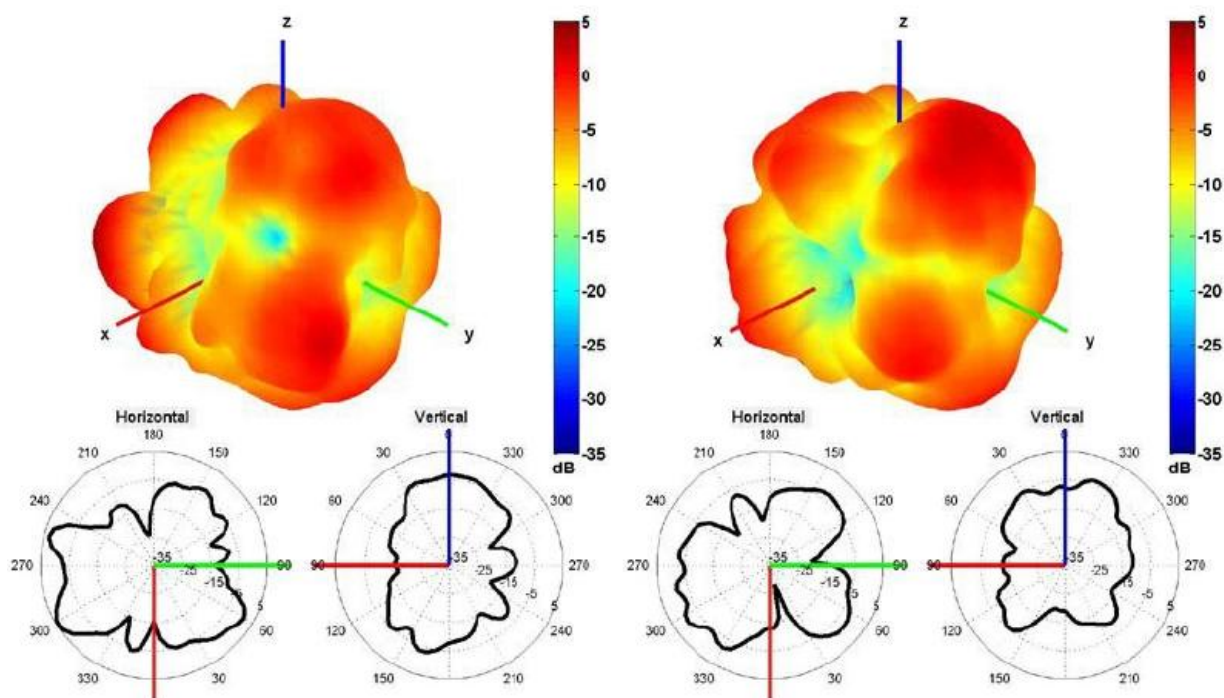


4500 and 5500 MHz Radiation pattern

Cable 2: 5GNR

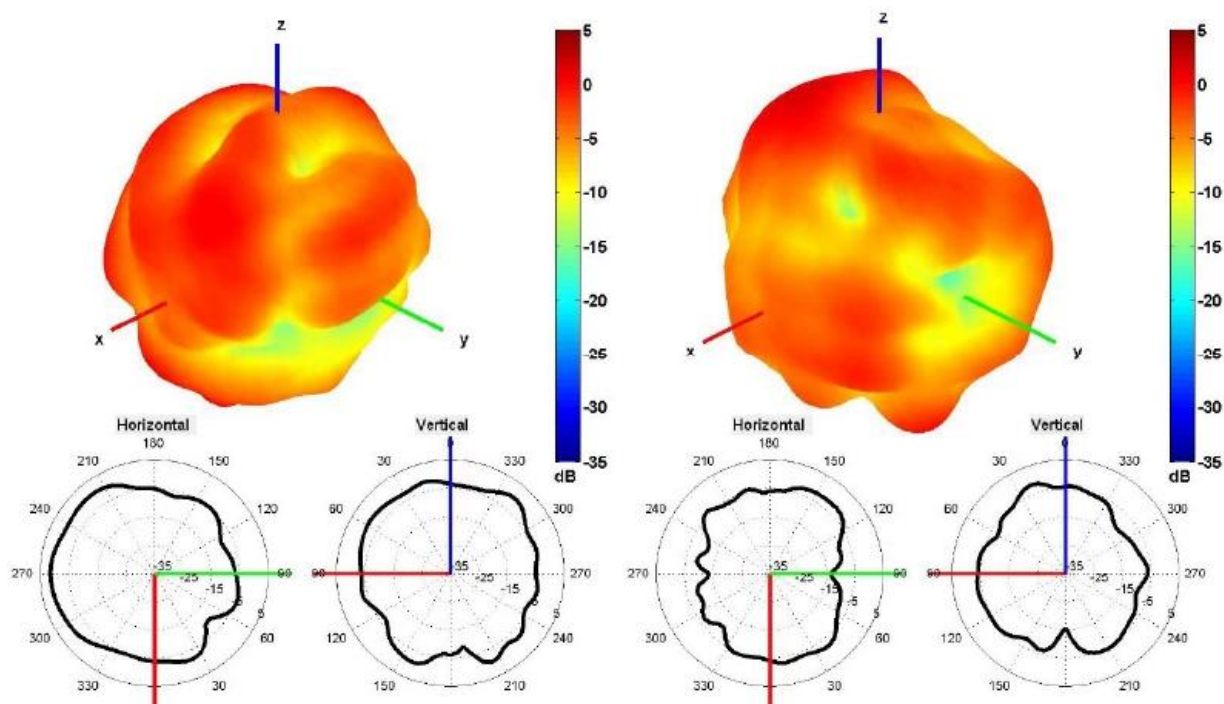


750 and 2500 MHz Radiation pattern

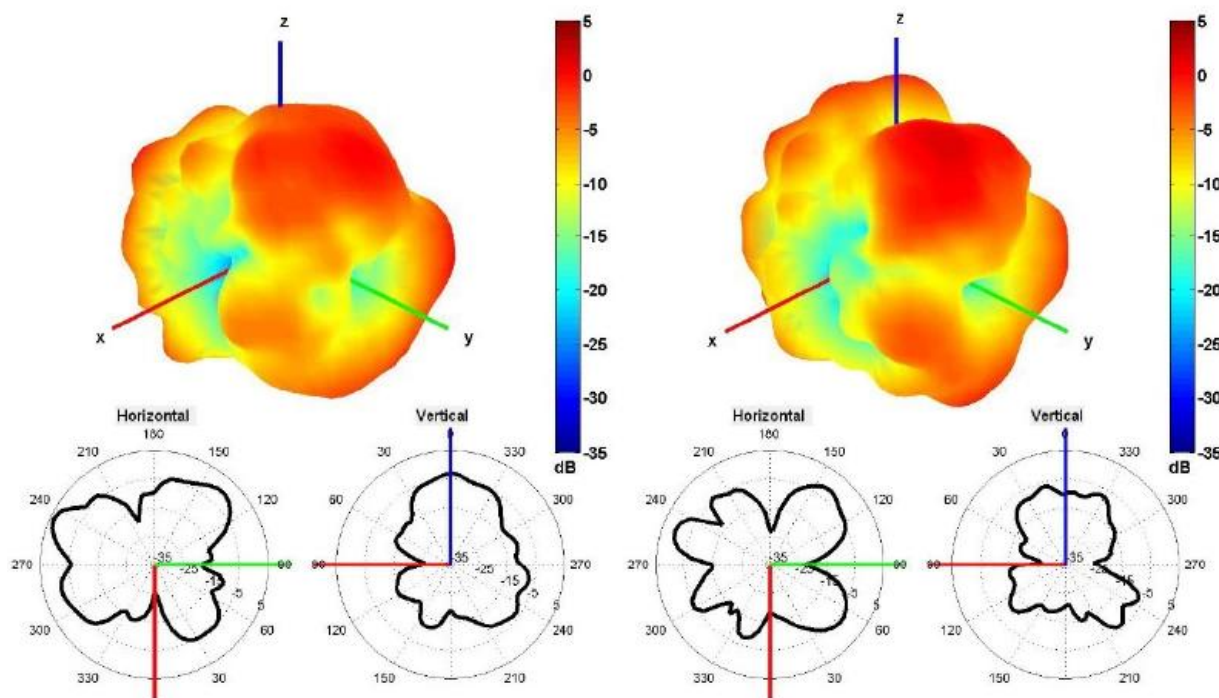


4500 and 5500 MHz Radiation pattern

Cable 3: 5GNR

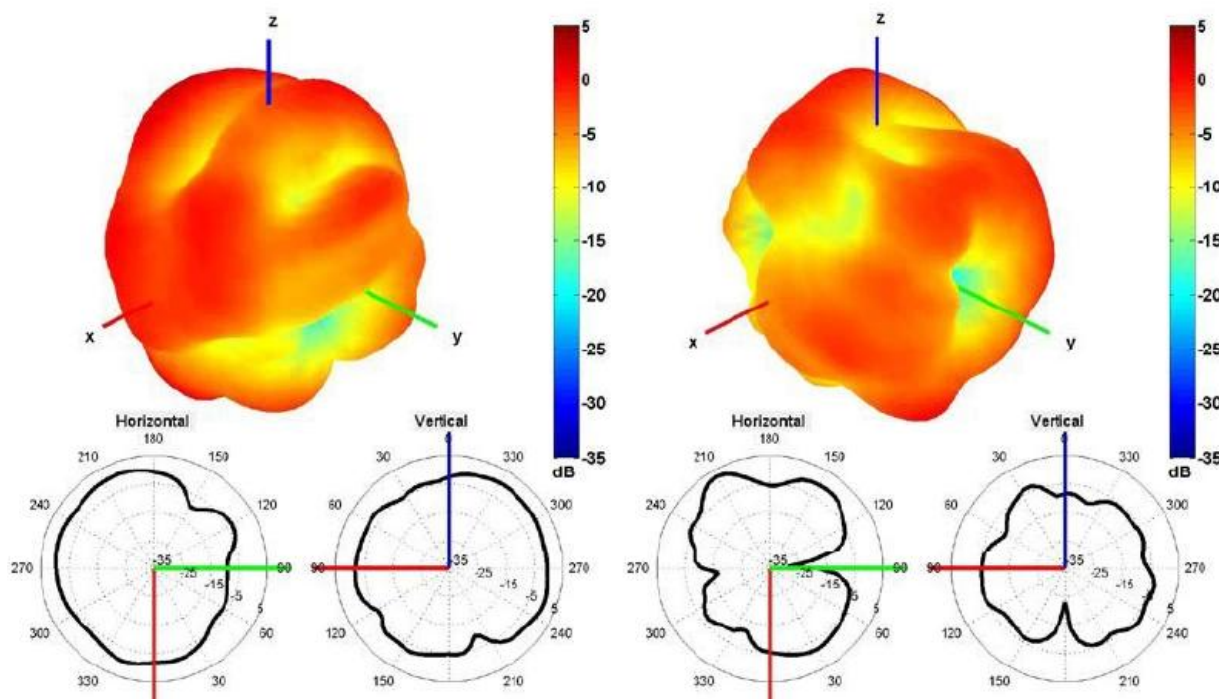


750 and 2500 MHz Radiation pattern

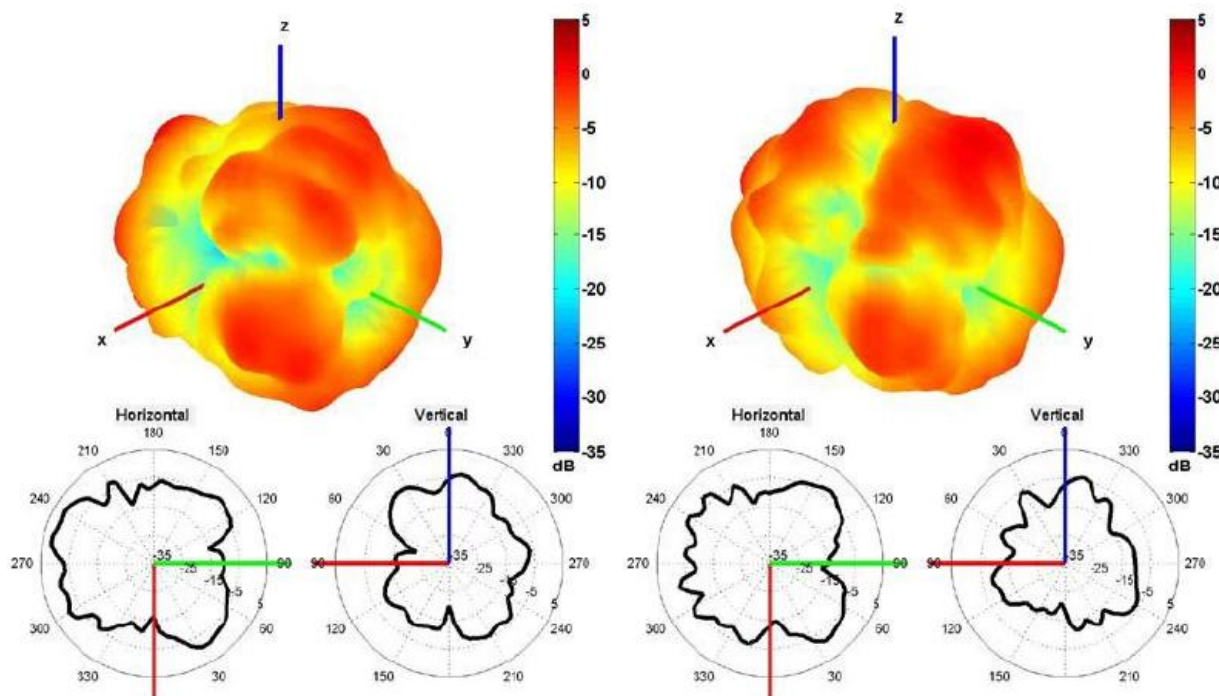


4500 and 5500 MHz Radiation pattern

Cable 4: 5GNR

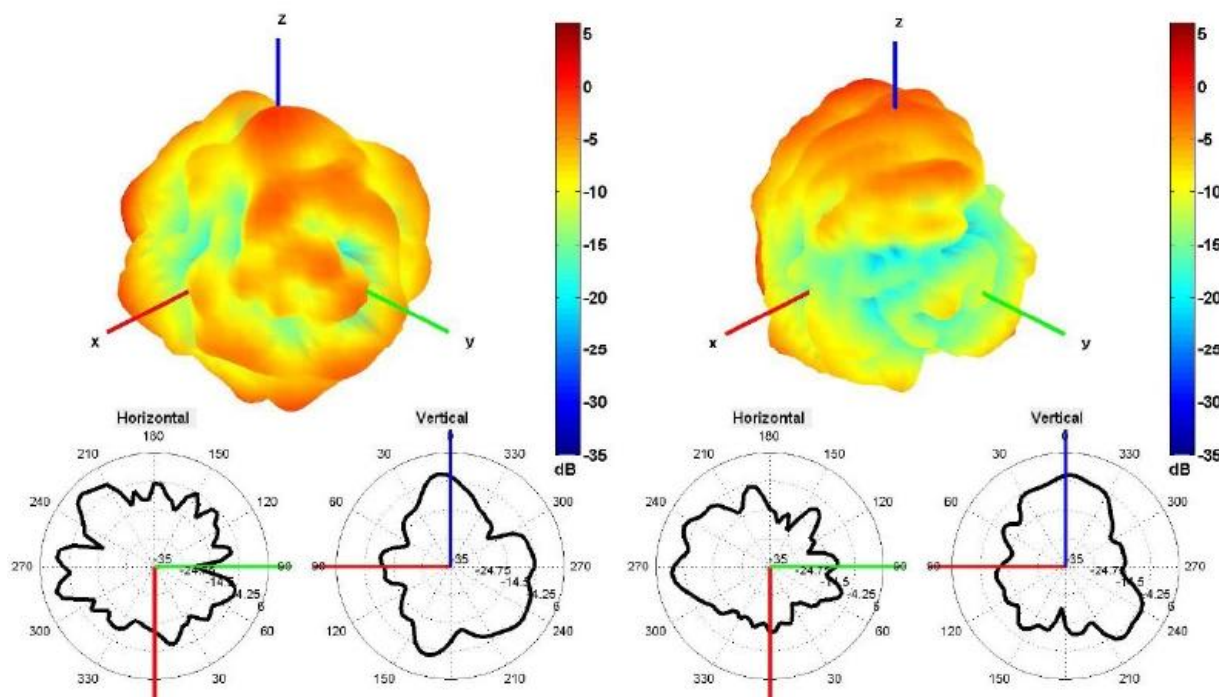


750 and 2500 MHz Radiation pattern

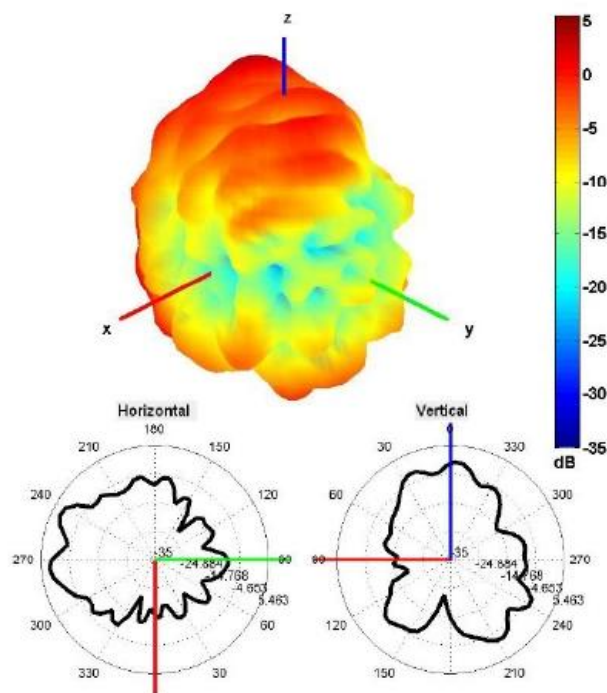


4500 and 5500 MHz Radiation pattern

Cable 5: 2.4/5.0/6.0 GHz ISM

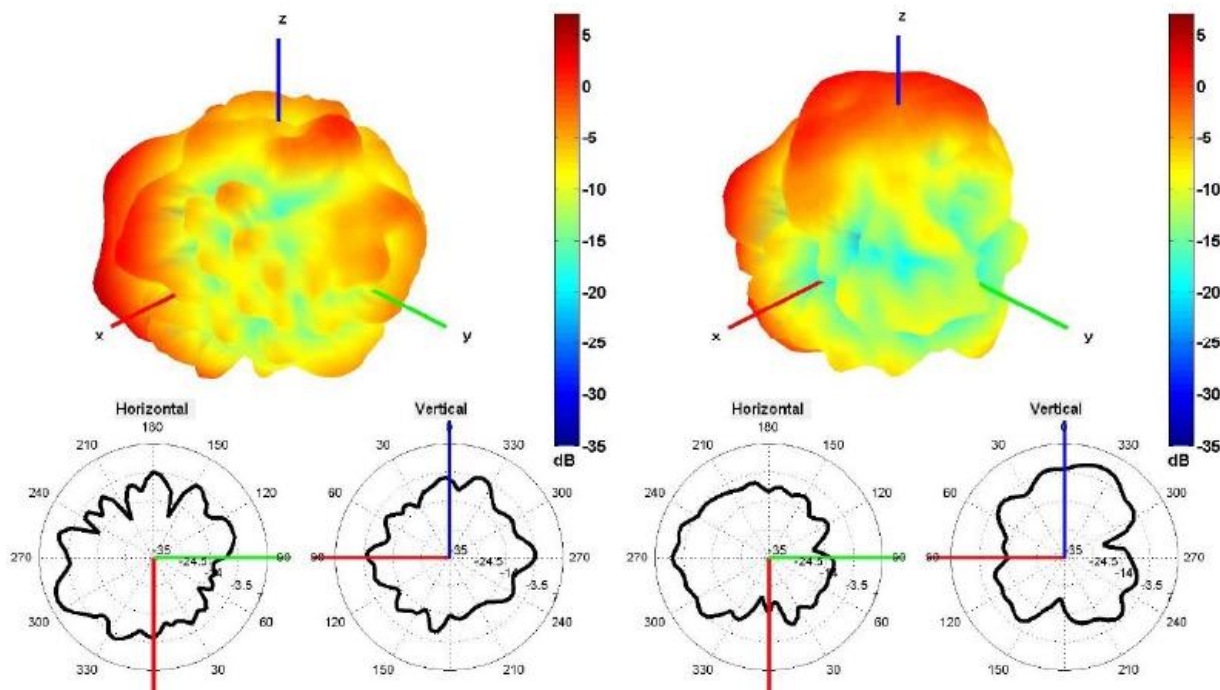


2450 and 5500 MHz Radiation pattern

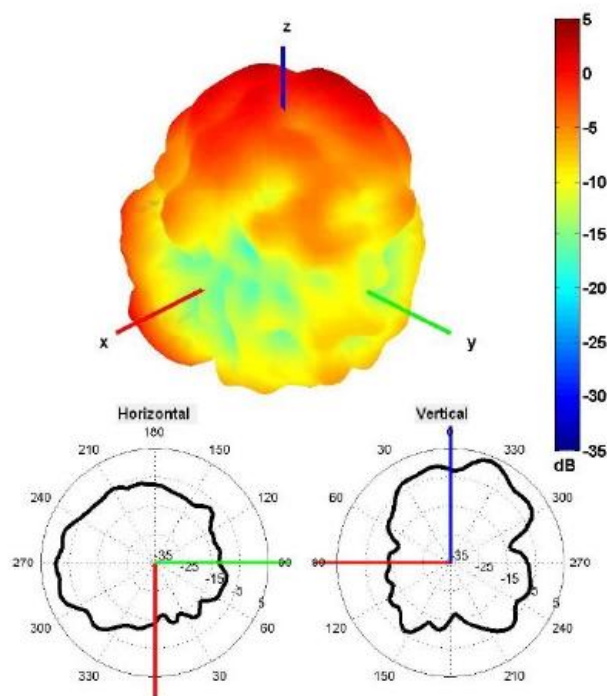


6500 MHz Radiation pattern

Cable 6: 2.4/5.0/6.0 GHz ISM

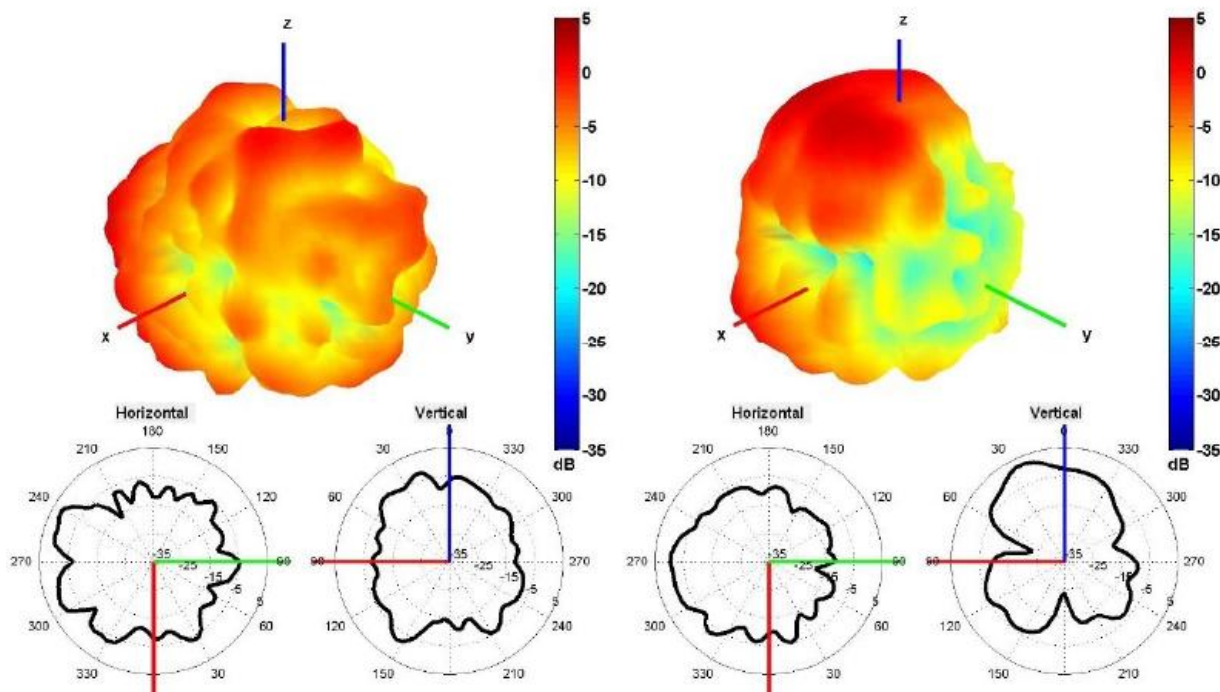


2450 and 5500 MHz Radiation pattern

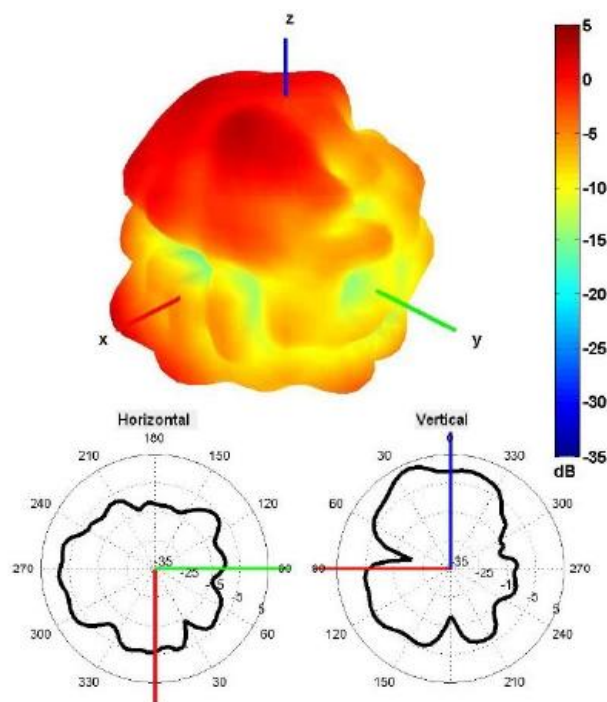


6500 MHz Radiation pattern

Cable 7: 2.4/5.0/6.0 GHz ISM

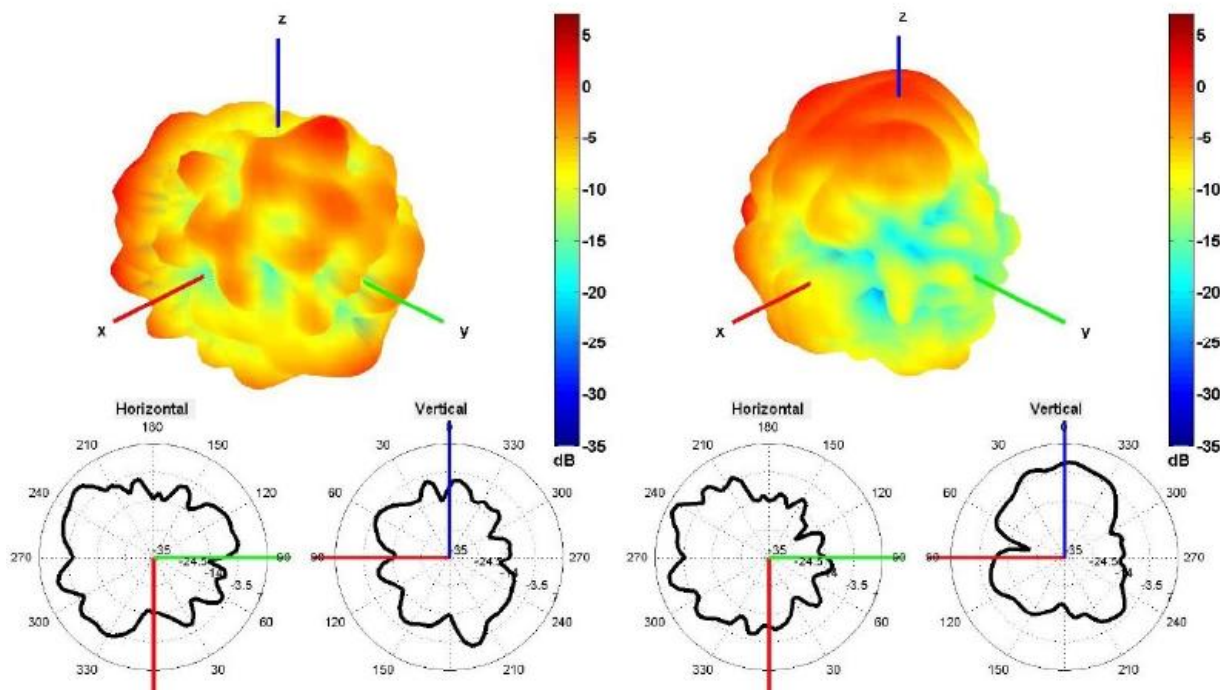


2450 and 5500 MHz Radiation pattern

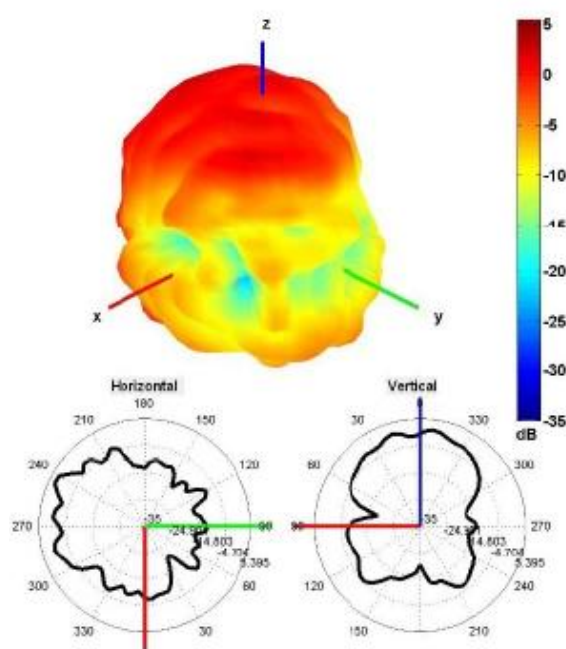


6500 MHz Radiation pattern

Cable 8: 2.4/5.0/6.0 GHz ISM



2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern



SCHÉMA(S)

