



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
LTE Band 4	20MHz	L 20050	1720	QPSK	1	0	23.41
					1	49	24.23
					1	99	23.62
					50	0	22.89
					50	25	23.08
					50	49	23.32
				100	0	23.09	
				16-QAM	1	0	23.87
					1	49	23.78
					1	99	23.68
					50	0	23.52
					50	25	23.14
		50	49		23.12		
		M 20175	1732.5	QPSK	1	0	23.81
					1	49	23.92
					1	99	23.94
					50	0	23.04
					50	25	23.12
					50	49	23.76
				100	0	23.49	
				16-QAM	1	0	23.34
					1	49	23.42
					1	99	23.69
					50	0	23.41
					50	25	23.17
		50	49		23.56		
		H 20300	1745	QPSK	1	0	23.59
1	49				23.64		
1	99				24.18		
50	0				24.61		
50	25				24.12		
50	49				23.34		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
	15MHz	L 20025	1717.5	16-QAM	100	0	23.71
					1	0	23.98
					1	49	24.01
					1	99	23.83
					50	0	23.32
					50	25	23.12
					50	49	23.44
					100	0	24.67
				QPSK	1	0	23.11
					1	37	23.02
					1	74	23.15
					36	0	23.19
	36	18	23.96				
	36	35	23.34				
	16-QAM	75	0	23.62			
		1	0	23.26			
		1	37	23.23			
		1	74	23.67			
		36	0	23.59			
		36	18	24.18			
		36	35	24.21			
		75	0	24.51			
	M 20175	QPSK	1732.5	1	0	24.78	
				1	37	24.21	
1				74	24.64		
36				0	24.19		
36				18	23.76		
36				35	24.23		
16-QAM		75		0	23.62		
		1		0	23.94		
		1		37	24.78		
		1		74	24.31		
		36		0	23.58		
		36		18	23.75		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
10MHz	H 20325	1747.5	QPSK	36	35	23.34	
				75	0	23.75	
				1	0	24.01	
				1	37	24.06	
				1	74	24.11	
				36	0	24.24	
				36	18	24.73	
				36	35	23.22	
				75	0	23.39	
				16-QAM	1	0	24.04
					1	37	23.43
					1	74	24.19
					36	0	23.46
					36	18	24.32
	36	35	23.34				
	75	0	23.82				
	L 20000	1715	QPSK		1	0	24.03
				1	24	24.08	
				1	49	24.51	
				25	0	24.03	
				25	12	23.12	
				25	24	23.65	
				50	0	24.85	
				16-QAM	1	0	24.64
					1	24	24.01
					1	49	24.38
					25	0	24.34
					25	12	24.54
25					24	24.87	
50					0	23.83	
M 20175	1732.5	QPSK	1		0	24.09	
			1	24	24.05		
			1	49	23.16		
			25	0	23.54		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		H 20350	1750	16-QAM	25	12	24.14
					25	24	23.15
					50	0	24.02
					1	0	24.05
					1	24	24.03
					1	49	24.44
					25	0	23.43
					25	12	23.74
					25	24	24.75
				50	0	23.03	
				1	0	23.84	
				1	24	23.67	
				1	49	23.96	
				25	0	23.34	
				25	12	23.78	
				25	24	23.51	
				50	0	23.05	
				1	0	24.88	
	1	24	23.65				
	1	49	23.21				
	25	0	23.34				
	25	12	24.85				
	25	24	23.43				
	50	0	23.69				
	5MHz	L 19975	1712.5	QPSK	1	0	24.63
					1	12	24.53
					1	24	24.54
					12	0	24.87
					12	6	23.64
					12	11	24.42
					25	0	23.51
					1	0	23.33
					1	12	24.24
				1	24	24.19	
				16-QAM	1	0	23.33
					1	12	24.24
1	24	24.19					



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		M 20175	1732.5	QPSK	12	0	23.74
					12	6	23.53
					12	11	23.24
					25	0	23.33
					1	0	24.65
					1	12	24.23
				16-QAM	1	24	24.44
					12	0	24.43
					12	6	24.68
					12	11	24.43
					25	0	23.25
					1	0	23.38
		H 20375	1752.5	QPSK	1	12	23.18
					1	24	23.94
					12	0	23.89
					12	6	24.43
					12	11	23.43
					25	0	23.88
				16-QAM	1	0	23.09
					1	12	23.37
					1	24	23.27
					12	0	23.87
					12	6	23.67
					12	11	24.23
		L 19965	1711.5	QPSK	25	0	23.07
					1	0	24.46
					1	12	24.74
					1	24	24.83
16-QAM	12			0	24.34		
	12			6	23.36		
	12			11	23.57		
	25			0	23.46		
3MHz				QPSK	1	0	24.69
					1	7	24.34



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)		
					RB Size	RB Offset			
					1	14	24.74		
					8	0	24.61		
					8	4	24.35		
					8	7	24.25		
					15	0	23.35		
					16-QAM	1	0	24.39	
					16-QAM	1	7	23.65	
				16-QAM	1	14	23.65		
				16-QAM	8	0	24.54		
				16-QAM	8	4	23.45		
				16-QAM	8	7	23.56		
				16-QAM	15	0	24.63		
				M 20175	1732.5	QPSK	1	0	24.81
							1	7	24.05
		1	14				23.34		
		8	0				23.54		
		8	4				23.71		
		8	7				23.54		
		15	0				24.38		
		16-QAM	1	0	24.06				
			1	7	24.43				
			1	14	23.21				
			8	0	23.23				
			8	4	23.76				
			8	7	23.65				
			15	0	23.35				
		H 20385	1753.5	QPSK	1	0	24.66		
					1	7	24.78		
1	14				24.64				
8	0				23.43				
8	4				23.56				
8	7				23.74				
15	0				23.09				
16-QAM	1			0	24.31				



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
1.4MHz					1	7	24.65
					1	14	24.45
					8	0	23.89
					8	4	23.21
					8	7	23.78
					15	0	24.61
	L 19957	1710.7	QPSK	1	0	24.26	
				1	2	24.48	
				1	5	24.51	
				3	0	23.92	
				3	1	23.62	
				3	2	24.31	
		16-QAM	6	0	23.39		
			1	0	23.22		
			1	2	23.34		
			1	5	23.13		
			3	0	23.74		
			3	1	23.83		
	M 20175	1732.5	QPSK	3	2	23.76	
				6	0	23.55	
				1	0	23.88	
				1	2	24.98	
				1	5	24.11	
				3	0	23.34	
16-QAM		3	1	24.45			
		3	2	24.85			
		6	0	23.16			
		1	0	23.98			
		1	2	24.09			
		1	5	23.55			
3	0	23.57					
3	2	23.37					
3	5	23.48					
6	0	23.51					



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		H 20393	1754.5	QPSK	1	0	23.82
					1	2	23.48
					1	5	24.73
					3	0	24.38
					3	1	24.74
					3	2	24.98
				6	0	23.53	
				16-QAM	1	0	24.32
					1	2	24.68
					1	5	23.93
					3	0	24.39
					3	1	24.73
					3	2	24.98
					6	0	24.28

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
LTE Band 7	20MHz	L 20850	2510	QPSK	1	0	24.61
					1	49	24.13
					1	99	24.72
					50	0	22.81
					50	25	23.78
					50	49	24.32
					100	0	24.09
				16-QAM	1	0	23.82
					1	49	23.78
					1	99	24.68
					50	0	24.52
					50	25	24.14
					50	49	24.12
					100	0	23.46
		M 21100	2535	QPSK	1	0	24.81
					1	49	24.21





Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
					1	99	24.77
					50	0	24.04
					50	25	23.27
					50	49	24.26
					100	0	23.29
					1	0	23.25
				16-QAM	1	49	24.32
					1	99	24.61
					50	0	24.41
					50	25	24.17
					50	49	24.56
					100	0	24.41
	QPSK	1	0	23.53			
		1	49	23.34			
		1	99	24.08			
		50	0	24.61			
		50	25	24.12			
		50	49	23.34			
	16-QAM	100	0	24.41			
		1	0	23.98			
		1	49	24.17			
		1	99	23.83			
		50	0	23.32			
		50	25	23.12			
15MHz	L 20825		2560	QPSK	50	49	23.44
					100	0	24.67
					1	0	24.84
					1	37	24,12
					1	74	24.35
					36	0	24.14
	16-QAM	36	18	24.26			
		36	35	23.34			
		75	0	23.62			
		1	0	23.29			



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
					1	37	23.23
					1	74	23.67
					36	0	23.54
					36	18	24.98
					36	35	24.12
					75	0	24.51
		M 21100	2535	QPSK	1	0	24.78
					1	37	24.21
					1	74	24.64
					36	0	24.89
					36	18	23.76
					36	35	24.23
				16-QAM	75	0	23.62
					1	0	23.94
					1	37	24.78
					1	74	24.31
					36	0	23.98
					36	18	23.65
		H 21375	2562.5	QPSK	36	35	23.34
					75	0	24.35
					1	0	24.41
					1	37	24.76
					1	74	24.81
					36	0	24.34
16-QAM	36			18	24.13		
	36			35	23.87		
	75			0	23.38		
	1			0	24.94		
	1			37	23.47		
	1			74	24.19		
36	0	23.41					
36	18	24.42					
36	35	23.38					
75	0	23.89					



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
10MHz	L 20800	2505	QPSK	1	0	24.05	
				1	24	24.08	
				1	49	24.51	
				25	0	24.07	
				25	12	23.15	
				25	24	23.65	
				50	0	24.85	
				16-QAM	1	0	24.64
					1	24	24.01
			1		49	24.38	
			25		0	24.34	
			25		12	24.54	
			25		24	24.87	
			50		0	23.83	
			QPSK		1	0	24.06
					1	24	24.05
				1	49	23.66	
				25	0	23.54	
	25	12		24.34			
	25	24		23.64			
	50	0		24.32			
	16-QAM	1		0	24.05		
		1		24	24.03		
		1	49	24.44			
		25	0	23.43			
		25	12	23.64			
		25	24	24.75			
50		0	23.03				
H 21400		2565	QPSK	1	0	23.84	
				1	24	23.67	
	1			49	23.92		
	25			0	23.44		
	25			12	23.77		
	25			24	24.51		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)	
					RB Size	RB Offset		
	5MHz	L 20755	2502.5	16-QAM	50	0	23.05	
					1	0	24.85	
					1	24	23.65	
					1	49	23.25	
					25	0	23.31	
					25	12	24.81	
					25	24	23.47	
					50	0	23.62	
				QPSK	1	0	24.63	
					1	12	24.53	
					1	24	24.54	
					12	0	24.83	
					12	6	23.64	
					12	11	24.42	
	25	0	23.51					
	16-QAM	1	0		23.33			
		1	12	24.64				
		1	24	24.04				
		12	0	23.74				
		12	6	23.53				
		12	11	23.24				
		25	0	23.33				
				M 21100	2535	QPSK	1	0
	1						12	24.23
	1						24	24.44
	12						0	24.43
	12						6	24.68
	12						11	24.43
25	0						23.25	
16-QAM	1		0	23.38				
	1		12	23.18				
	1		24	23.94				
	12		0	23.89				
	12		6	24.41				



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
					12	11	23.43
					25	0	23.88
		H 21350	2560	QPSK	1	0	23.09
					1	12	23.37
					1	24	23.27
					12	0	23.87
					12	6	23.67
					12	11	24.23
					25	0	23.07
					1	0	24.46
				16-QAM	1	12	24.74
					1	24	24.83
					12	0	24.34
					12	6	23.36
					12	11	23.57
					25	0	23.46

## 2.8. Radiated Spurious Emissions

### 2.8.1. Requirement

According to FCC section 2.1053 and section 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

### 2.8.2. Test Description

See section 2.7.2 of this report.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 2.8.3. Test Result

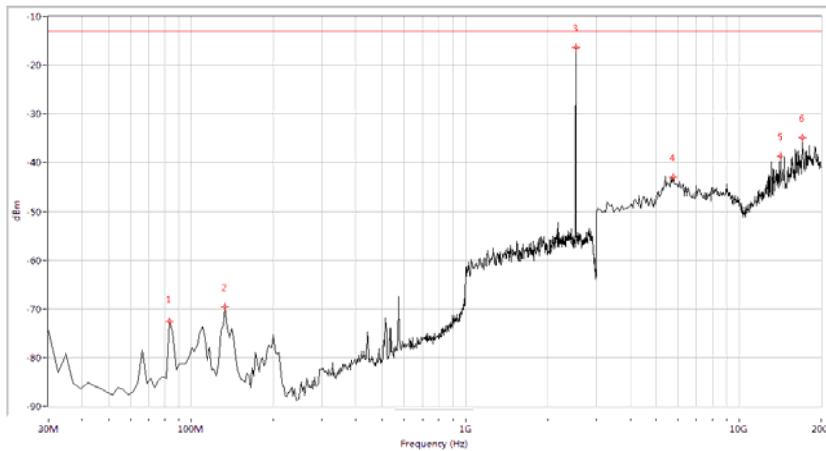
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Test Plots for the Whole Measurement Frequency Range:

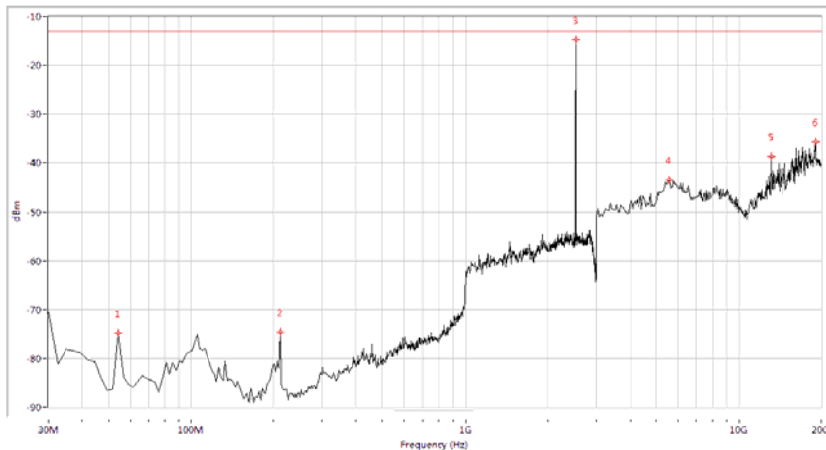
Note1: the power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

LTE Band 7 5MHz BW, Mid Channel, QPSK

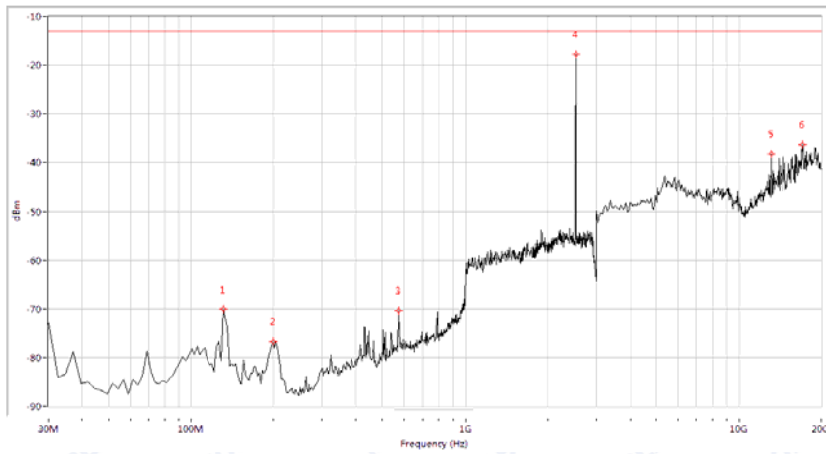


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
83.217	-72.61	-13.0	59.6	23.5	Horizontal	PASS
134.015	-69.62	-13.0	56.6	181.6	Horizontal	PASS
2531.172	-16.32	-13.0	3.3	360.0	Horizontal	N.A
5798.005	-42.89	-13.0	29.9	305.3	Horizontal	PASS
14064.838	-38.75	-13.0	25.7	360.0	Horizontal	PASS
17159.601	-34.81	-13.0	21.8	248.3	Horizontal	PASS

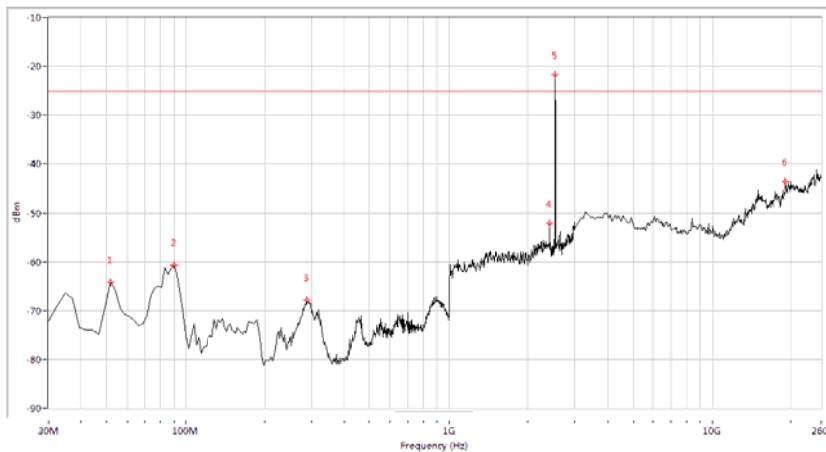


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-74.78	-13.0	61.8	303.6	Vertical	PASS
211.421	-74.64	-13.0	61.6	332.2	Vertical	PASS
2531.172	-14.78	-13.0	1.8	125.7	Vertical	N.A
5586.035	-43.40	-13.0	30.4	241.9	Vertical	PASS
13004.988	-38.72	-13.0	25.7	311.2	Vertical	PASS
19067.332	-35.62	-13.0	22.6	360.0	Vertical	PASS

LTE Band 7 5MHz BW, Mid Channel, 16QAM



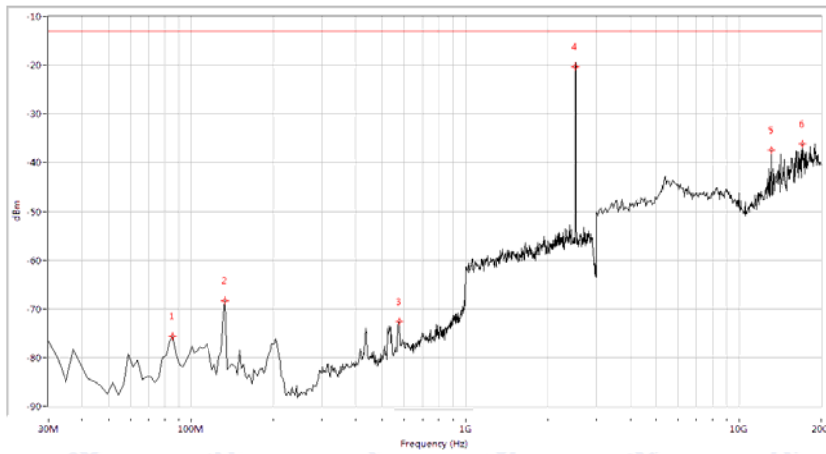
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
131.596	-70.00	-13.0	57.0	157.5	Horizontal	PASS
199.327	-76.71	-13.0	63.7	28.4	Horizontal	PASS
574.264	-70.34	-13.0	57.3	291.4	Horizontal	PASS
2531.172	-17.82	-13.0	4.8	291.4	Horizontal	N.A
13004.988	-38.19	-13.0	25.2	31.4	Horizontal	PASS
17117.207	-36.26	-13.0	23.3	77.1	Horizontal	PASS



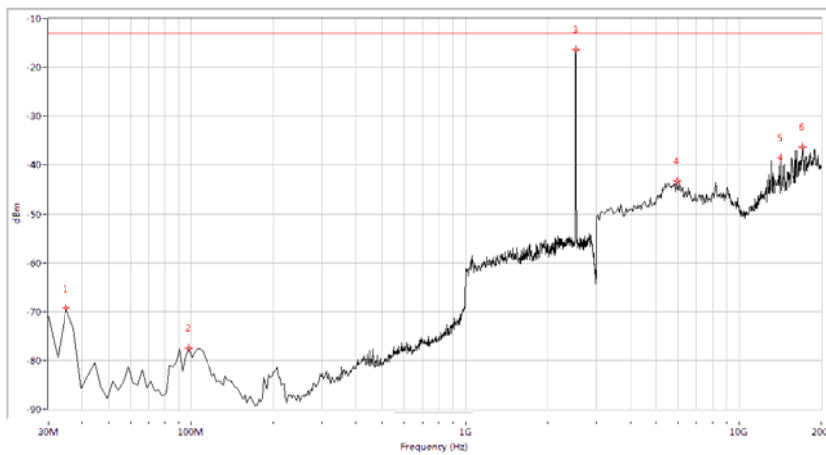
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
51.771	-64.16	-25.0	39.2	109.9	Vertical	PASS
90.474	-60.68	-25.0	35.7	329.0	Vertical	PASS
288.828	-67.76	-25.0	42.8	137.4	Vertical	PASS
2411.471	-52.08	-25.0	27.1	308.1	Vertical	PASS
2531.172	-21.66	-25.0	-3.3	270.6	Vertical	N.A
19117.207	-43.62	-25.0	18.6	0.8	Vertical	PASS



LTE Band 7 10MHz BW, Mid Channel, QPSK

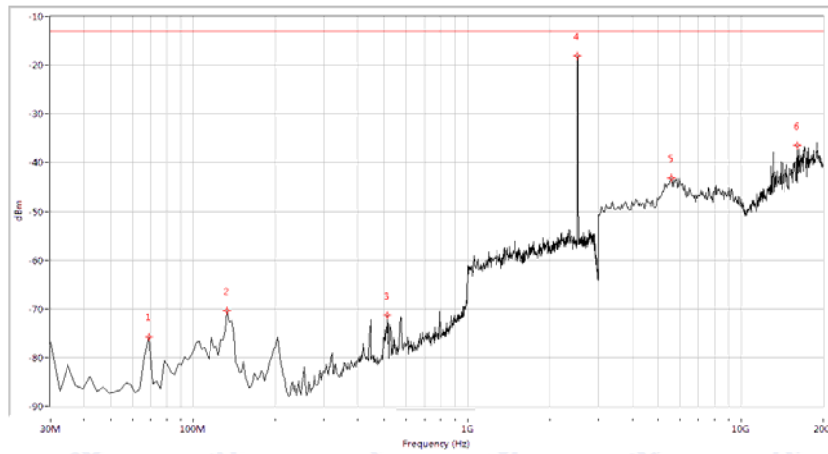


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
85.636	-75.64	-13.0	62.6	26.8	Horizontal	PASS
134.015	-68.27	-13.0	55.3	90.1	Horizontal	PASS
576.683	-72.53	-13.0	59.5	227.8	Horizontal	PASS
2526.185	-20.29	-13.0	7.3	287.0	Horizontal	N.A
13004.988	-37.44	-13.0	24.4	-0.0	Horizontal	PASS
17159.601	-36.17	-13.0	23.2	-0.0	Horizontal	PASS

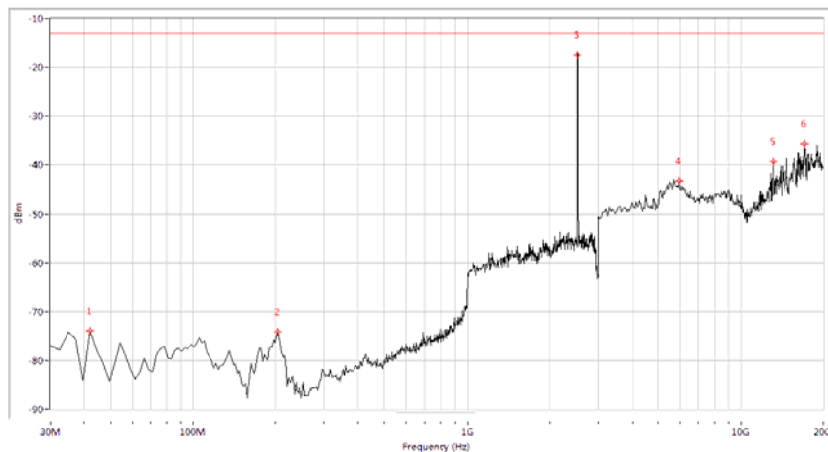


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-69.18	-13.0	56.2	330.8	Vertical	PASS
97.731	-77.52	-13.0	64.5	116.1	Vertical	PASS
2531.172	-16.35	-13.0	3.3	20.5	Vertical	N.A
5967.581	-43.28	-13.0	30.3	249.8	Vertical	PASS
14064.838	-38.44	-13.0	25.4	317.9	Vertical	PASS
17117.207	-36.23	-13.0	23.2	318.9	Vertical	PASS

LTE Band 7 10MHz BW, Mid Channel, 16QAM

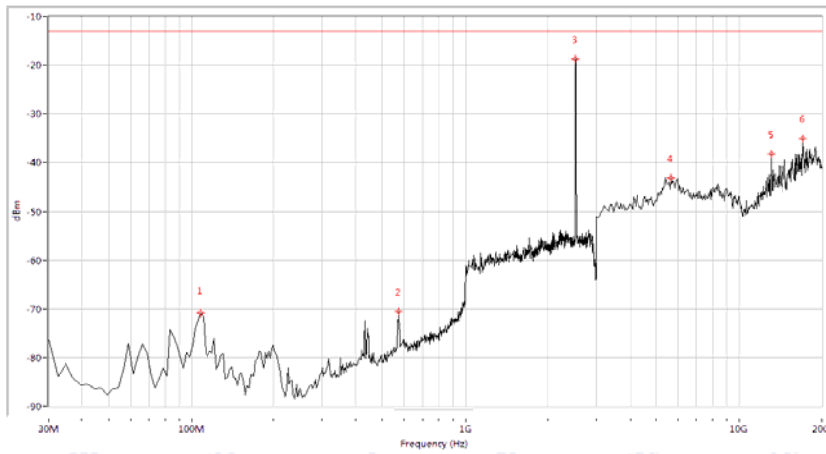


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
68.703	-75.68	-13.0	62.7	6.4	Horizontal	PASS
134.015	-70.36	-13.0	57.4	297.8	Horizontal	PASS
513.791	-71.24	-13.0	58.2	250.9	Horizontal	PASS
2526.185	-18.02	-13.0	5.0	285.9	Horizontal	N.A
5586.035	-43.19	-13.0	30.2	360.0	Horizontal	PASS
16099.751	-36.52	-13.0	23.5	305.8	Horizontal	PASS

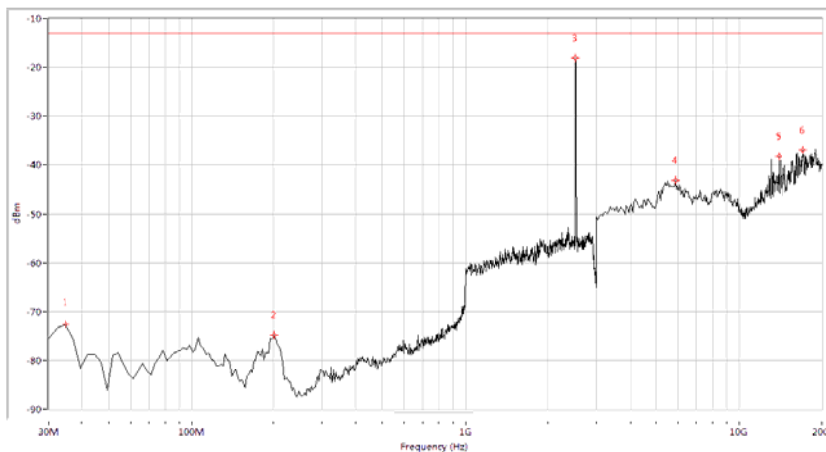


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
42.095	-74.02	-13.0	61.0	359.4	Vertical	PASS
204.165	-74.15	-13.0	61.2	136.2	Vertical	PASS
2526.185	-17.48	-13.0	4.5	130.3	Vertical	N.A
5967.581	-43.27	-13.0	30.3	297.3	Vertical	PASS
13004.988	-39.25	-13.0	26.2	246.4	Vertical	PASS
17159.601	-35.62	-13.0	22.6	302.6	Vertical	PASS

LTE Band 7 15MHz BW, Mid Channel, QPSK

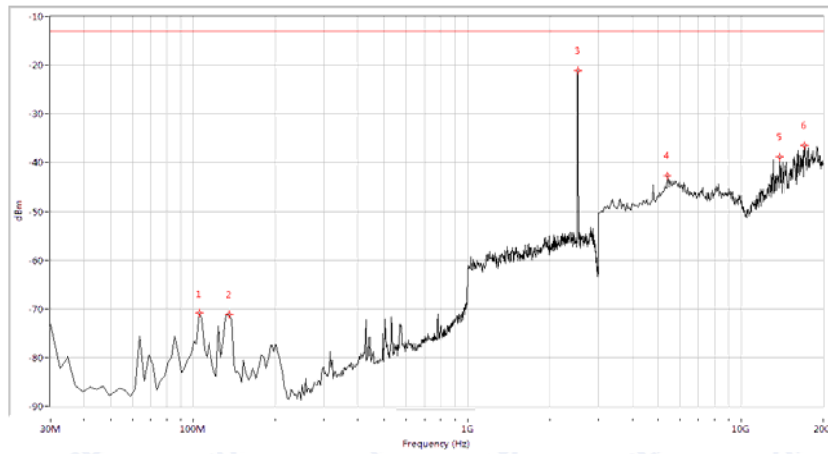


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-70.79	-13.0	57.8	11.9	Horizontal	PASS
571.845	-70.53	-13.0	57.5	323.4	Horizontal	PASS
2526.185	-18.78	-13.0	5.8	360.0	Horizontal	N.A
5670.823	-43.15	-13.0	30.2	309.6	Horizontal	PASS
13004.988	-38.16	-13.0	25.2	322.3	Horizontal	PASS
17159.601	-34.97	-13.0	22.0	211.4	Horizontal	PASS

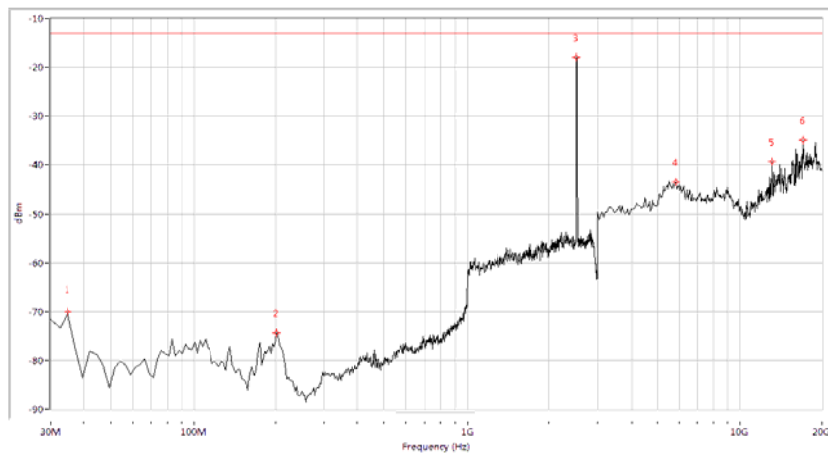


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.53	-13.0	59.5	156.4	Vertical	PASS
201.746	-74.78	-13.0	61.8	151.1	Vertical	PASS
2526.185	-18.11	-13.0	5.1	176.8	Vertical	N.A
5882.793	-43.05	-13.0	30.0	303.7	Vertical	PASS
13895.262	-38.18	-13.0	25.2	38.0	Vertical	PASS
17159.601	-36.95	-13.0	24.0	156.4	Vertical	PASS

LTE Band 7 15MHz BW, Mid Channel, 16QAM

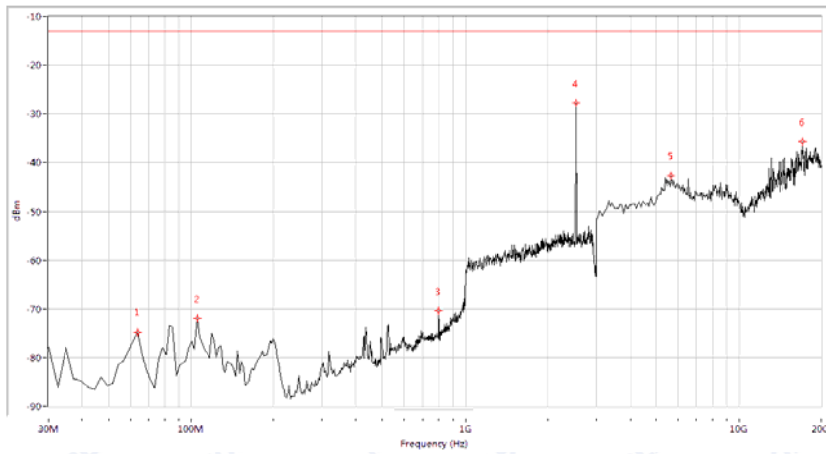


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-70.83	-13.0	57.8	212.1	Horizontal	PASS
136.434	-71.11	-13.0	58.1	333.8	Horizontal	PASS
2536.160	-21.04	-13.0	8.0	345.3	Horizontal	N.A
5416.459	-42.58	-13.0	29.6	273.6	Horizontal	PASS
13725.686	-38.90	-13.0	25.9	47.7	Horizontal	PASS
17117.207	-36.48	-13.0	23.5	168.6	Horizontal	PASS

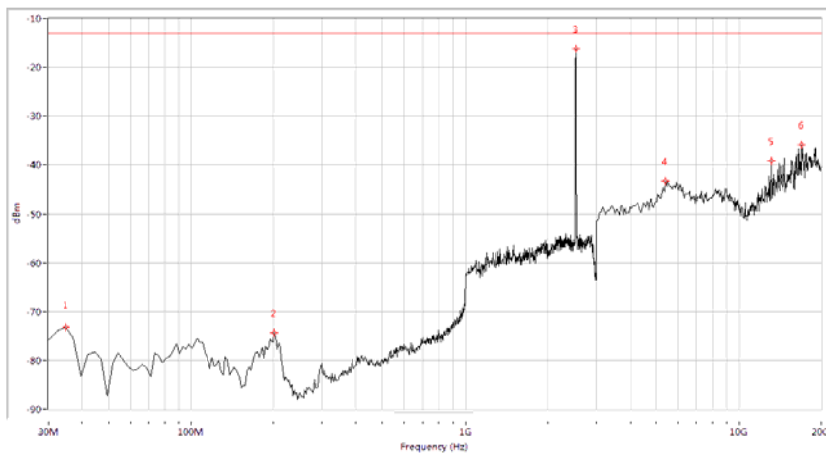


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-69.96	-13.0	57.0	360.0	Vertical	PASS
201.746	-74.35	-13.0	61.4	236.0	Vertical	PASS
2526.185	-17.89	-13.0	4.9	176.8	Vertical	N.A
5840.399	-43.48	-13.0	30.5	311.4	Vertical	PASS
13004.988	-39.30	-13.0	26.3	187.6	Vertical	PASS
17159.601	-34.94	-13.0	21.9	255.0	Vertical	PASS

LTE Band 7 20MHz BW, Mid Channel, QPSK

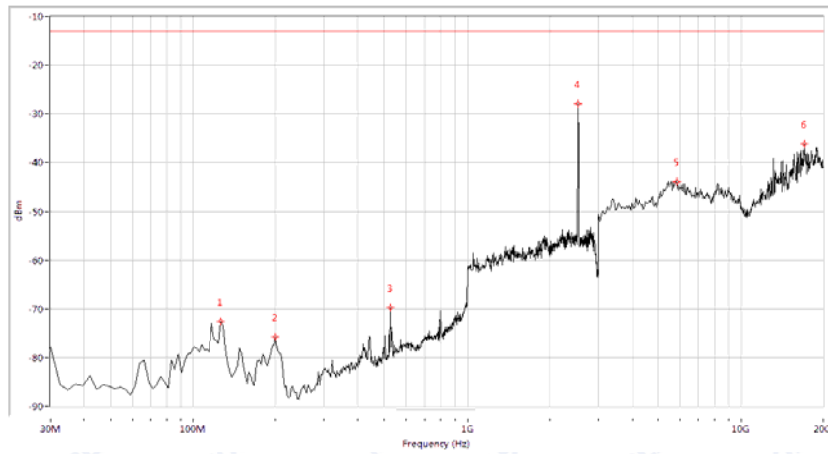


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
63.865	-74.85	-13.0	61.9	25.0	Horizontal	PASS
104.988	-72.00	-13.0	59.0	41.3	Horizontal	PASS
799.227	-70.29	-13.0	57.3	316.7	Horizontal	PASS
2541.147	-27.77	-13.0	14.8	259.4	Horizontal	N.A
5670.823	-42.63	-13.0	29.6	353.9	Horizontal	PASS
17159.601	-35.66	-13.0	22.7	346.0	Horizontal	PASS

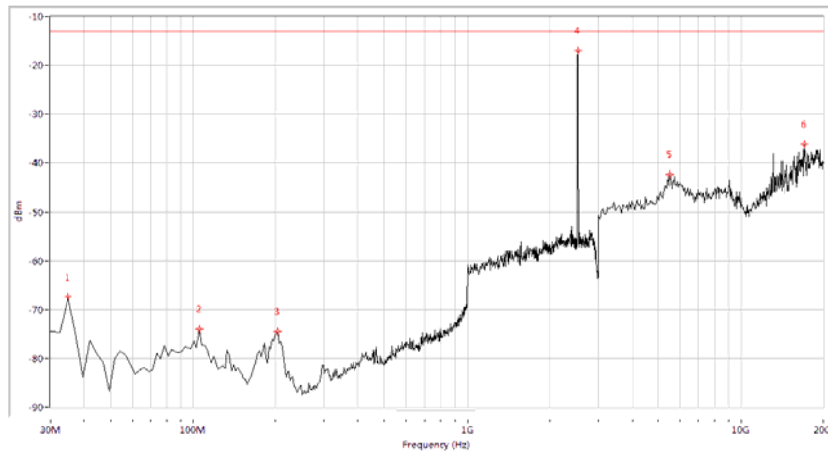


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-73.19	-13.0	60.2	360.0	Vertical	PASS
201.746	-74.37	-13.0	61.4	345.8	Vertical	PASS
2531.172	-16.18	-13.0	3.2	163.8	Vertical	N.A
5416.459	-43.26	-13.0	30.3	273.1	Vertical	PASS
13004.988	-39.18	-13.0	26.2	61.7	Vertical	PASS
17032.419	-35.84	-13.0	22.8	116.8	Vertical	PASS

LTE Band 7 20MHz BW, Mid Channel, 16QAM

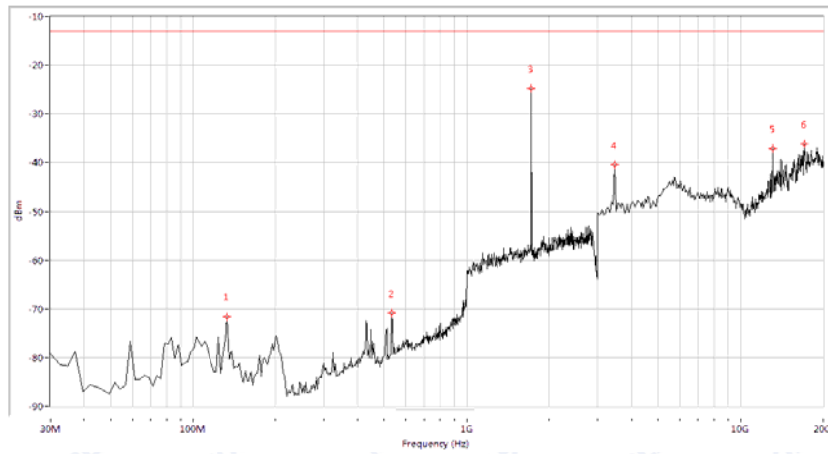


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
126.758	-72.56	-13.0	59.6	36.4	Horizontal	PASS
199.327	-75.75	-13.0	62.8	327.9	Horizontal	PASS
525.885	-69.69	-13.0	56.7	51.7	Horizontal	PASS
2541.147	-27.89	-13.0	14.9	54.8	Horizontal	N.A
5840.399	-43.84	-13.0	30.8	313.3	Horizontal	PASS
17117.207	-36.11	-13.0	23.1	14.5	Horizontal	PASS

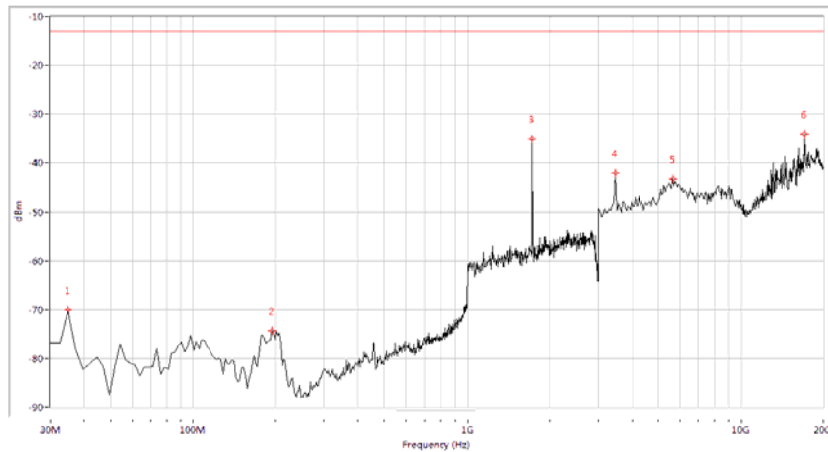


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-67.33	-13.0	54.3	217.8	Vertical	PASS
104.988	-74.04	-13.0	61.0	102.8	Vertical	PASS
204.165	-74.54	-13.0	61.5	316.0	Vertical	PASS
2531.172	-16.89	-13.0	3.9	278.4	Vertical	N.A
5543.641	-42.35	-13.0	29.3	307.8	Vertical	PASS
17117.207	-36.19	-13.0	23.2	360.0	Vertical	PASS

LTE Band 4 1.4MHz BW, Mid Channel, QPSK

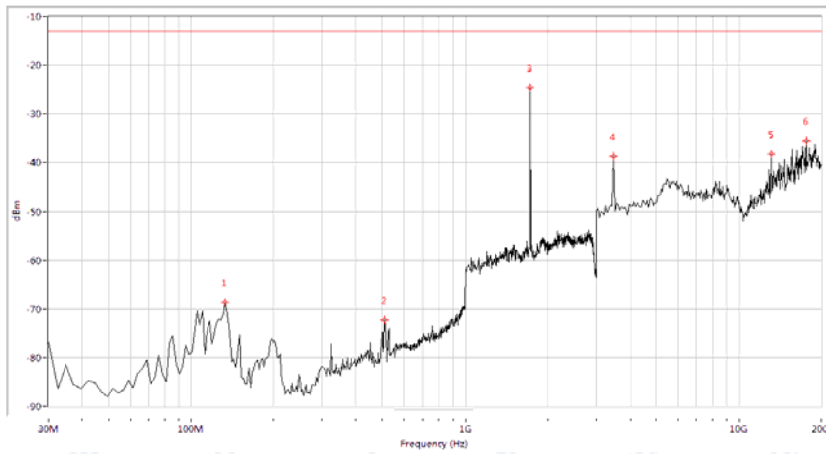


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
134.015	-71.62	-13.0	58.6	60.0	Horizontal	PASS
533.142	-70.90	-13.0	57.9	81.5	Horizontal	PASS
1733.167	-24.81	-13.0	11.8	-0.0	Horizontal	N.A
3466.334	-40.40	-13.0	27.4	2.4	Horizontal	PASS
13004.988	-37.14	-13.0	24.1	2.0	Horizontal	PASS
17159.601	-36.22	-13.0	23.2	262.9	Horizontal	PASS

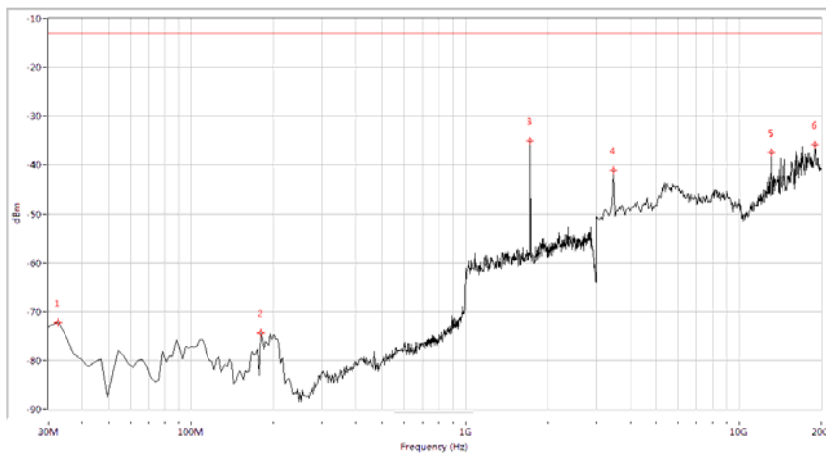


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-70.10	-13.0	57.1	132.2	Vertical	PASS
194.489	-74.39	-13.0	61.4	267.6	Vertical	PASS
1733.167	-35.09	-13.0	22.1	51.8	Vertical	N.A
3466.334	-41.96	-13.0	29.0	306.2	Vertical	PASS
5670.823	-43.25	-13.0	30.2	98.4	Vertical	PASS
17159.601	-34.12	-13.0	21.1	275.9	Vertical	PASS

LTE Band 4 1.4MHz BW, Mid Channel, 16QAM



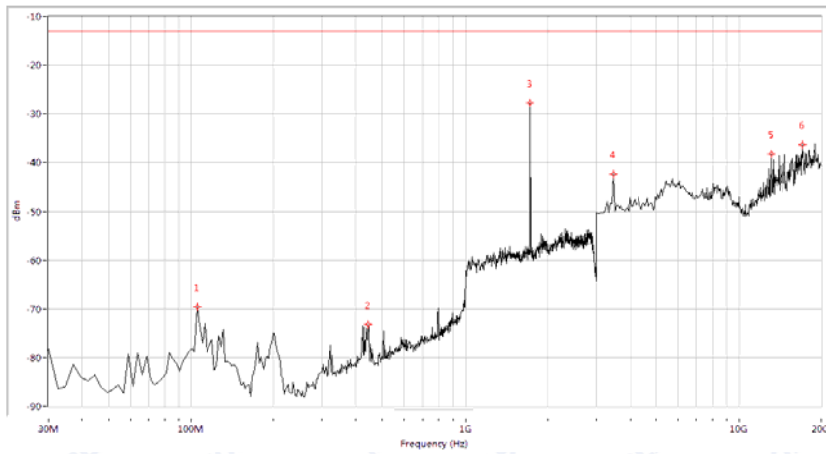
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
134.015	-68.56	-13.0	55.6	56.0	Horizontal	PASS
508.953	-72.25	-13.0	59.2	69.9	Horizontal	PASS
1733.167	-24.58	-13.0	11.6	359.3	Horizontal	N.A
3466.334	-38.73	-13.0	25.7	-0.0	Horizontal	PASS
13004.988	-38.27	-13.0	25.3	174.6	Horizontal	PASS
17625.935	-35.53	-13.0	22.5	62.7	Horizontal	PASS



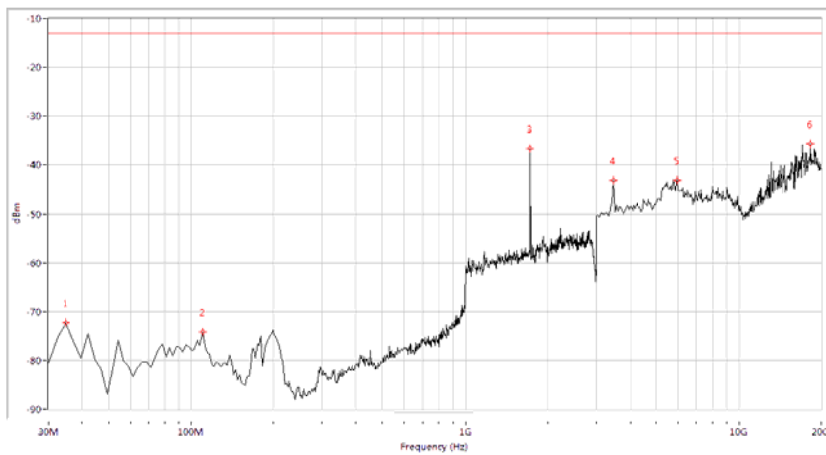
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-72.20	-13.0	59.2	196.1	Vertical	PASS
179.975	-74.34	-13.0	61.3	18.3	Vertical	PASS
1733.167	-35.03	-13.0	22.0	108.5	Vertical	N.A
3466.334	-40.98	-13.0	28.0	112.2	Vertical	PASS
13004.988	-37.41	-13.0	24.4	360.0	Vertical	PASS
19024.938	-35.87	-13.0	22.9	196.1	Vertical	PASS



LTE Band 4 3MHz BW, Mid Channel, QPSK

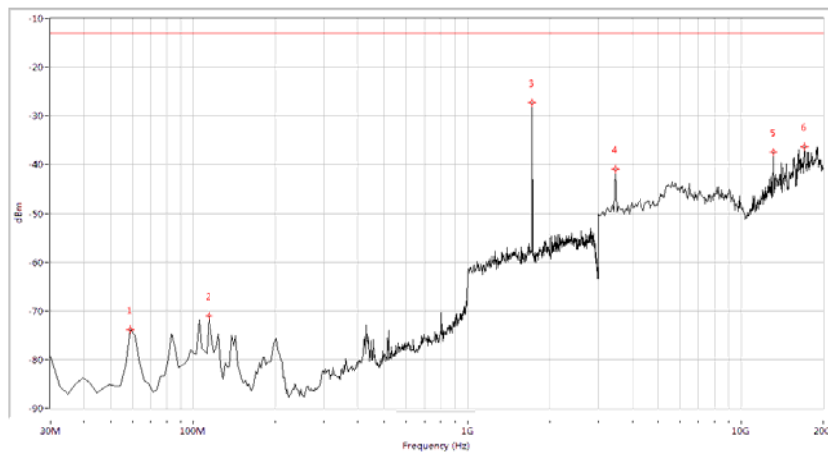


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-69.63	-13.0	56.6	64.4	Horizontal	PASS
443.641	-73.24	-13.0	60.2	92.6	Horizontal	PASS
1733.167	-27.70	-13.0	14.7	-0.0	Horizontal	N.A
3466.334	-42.35	-13.0	29.3	-0.0	Horizontal	PASS
13004.988	-38.21	-13.0	25.2	87.2	Horizontal	PASS
17159.601	-36.25	-13.0	23.3	98.6	Horizontal	PASS

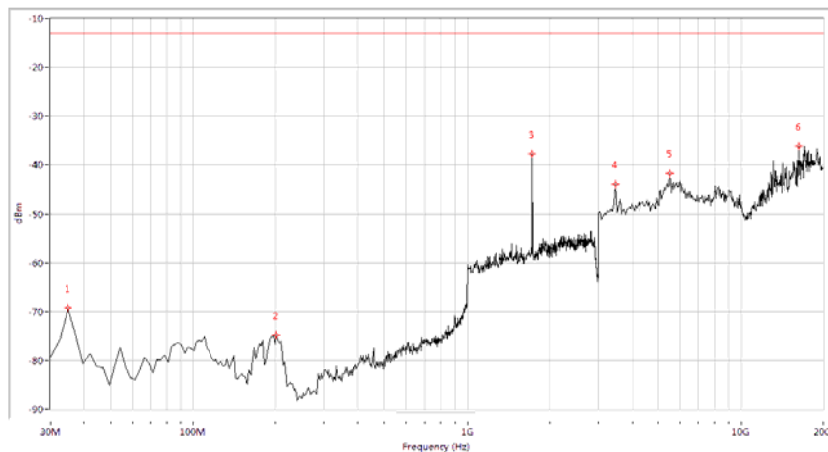


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.27	-13.0	59.3	186.7	Vertical	PASS
109.825	-74.23	-13.0	61.2	80.7	Vertical	PASS
1728.180	-36.61	-13.0	23.6	259.2	Vertical	N.A
3466.334	-43.15	-13.0	30.1	266.2	Vertical	PASS
5967.581	-43.18	-13.0	30.2	-0.0	Vertical	PASS
18304.239	-35.60	-13.0	22.6	186.7	Vertical	PASS

LTE Band 4 3MHz BW, Mid Channel, 16QAM

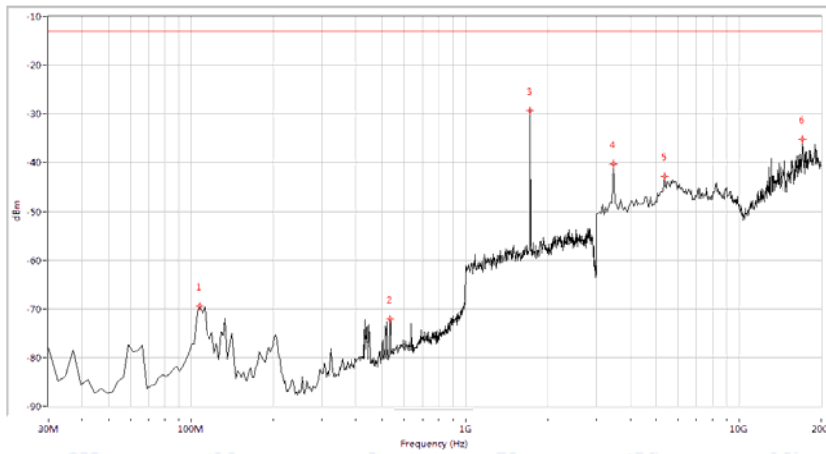


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
59.027	-73.84	-13.0	60.8	293.2	Horizontal	PASS
114.663	-70.91	-13.0	57.9	23.4	Horizontal	PASS
1733.167	-27.21	-13.0	14.2	69.6	Horizontal	N.A
3466.334	-40.86	-13.0	27.9	360.0	Horizontal	PASS
13004.988	-37.40	-13.0	24.4	44.1	Horizontal	PASS
17159.601	-36.28	-13.0	23.3	76.8	Horizontal	PASS

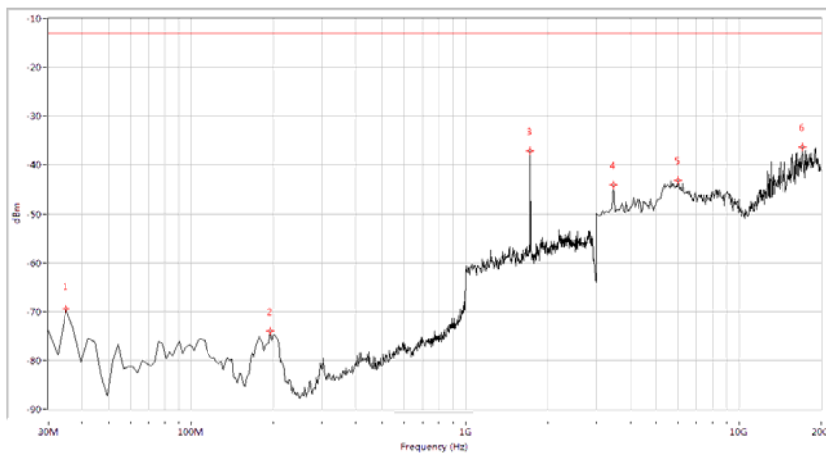


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-69.30	-13.0	56.3	57.1	Vertical	PASS
201.746	-74.81	-13.0	61.8	307.1	Vertical	PASS
1728.180	-37.74	-13.0	24.7	97.1	Vertical	N.A
3466.334	-43.92	-13.0	30.9	59.2	Vertical	PASS
5543.641	-41.75	-13.0	28.7	133.3	Vertical	PASS
16396.509	-36.08	-13.0	23.1	57.1	Vertical	PASS

LTE Band 4 5MHz BW, Mid Channel, QPSK

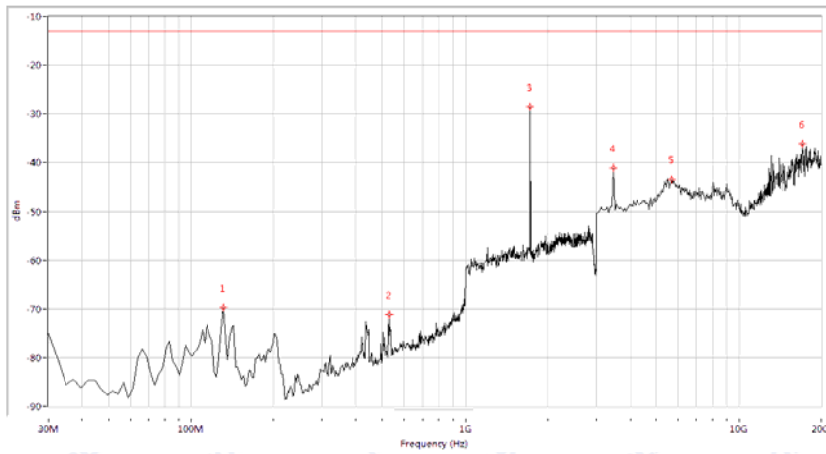


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-69.44	-13.0	56.4	56.2	Horizontal	PASS
533.142	-72.15	-13.0	59.1	199.4	Horizontal	PASS
1728.180	-29.27	-13.0	16.3	335.7	Horizontal	N.A
3466.334	-40.20	-13.0	27.2	263.5	Horizontal	PASS
5374.065	-42.78	-13.0	29.8	166.6	Horizontal	PASS
17159.601	-35.26	-13.0	22.3	74.8	Horizontal	PASS

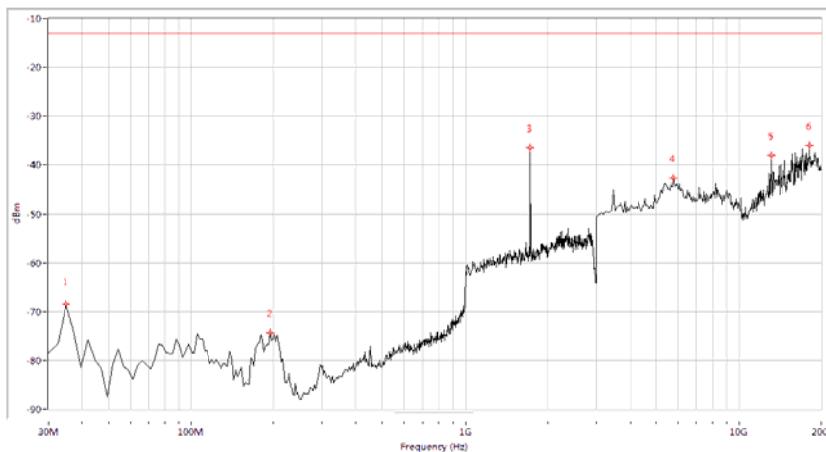


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-69.37	-13.0	56.4	312.6	Vertical	PASS
194.489	-74.03	-13.0	61.0	21.3	Vertical	PASS
1728.180	-37.12	-13.0	24.1	229.9	Vertical	N.A
3466.334	-43.99	-13.0	31.0	87.5	Vertical	PASS
6009.975	-43.14	-13.0	30.1	19.6	Vertical	PASS
17117.207	-36.36	-13.0	23.4	312.6	Vertical	PASS

LTE Band 4 5MHz BW, Mid Channel, 16QAM

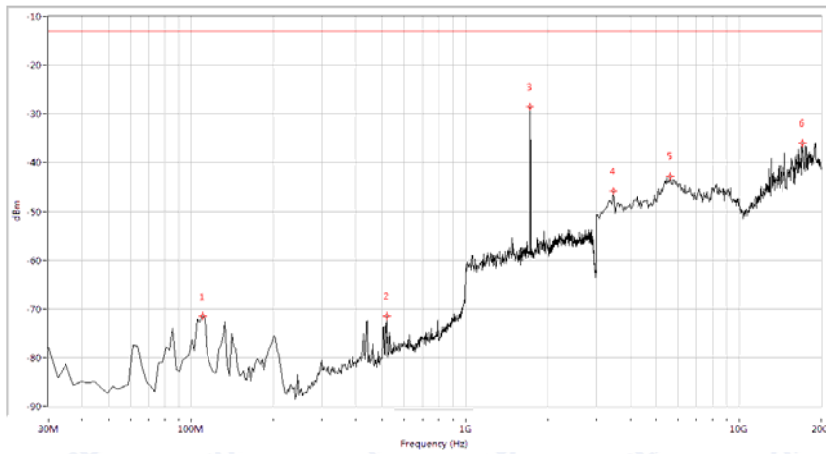


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
131.596	-69.72	-13.0	56.7	174.4	Horizontal	PASS
528.304	-71.13	-13.0	58.1	94.1	Horizontal	PASS
1733.167	-28.55	-13.0	15.5	275.9	Horizontal	N.A
3466.334	-41.01	-13.0	28.0	354.1	Horizontal	PASS
5713.217	-43.50	-13.0	30.5	33.2	Horizontal	PASS
17117.207	-36.18	-13.0	23.2	81.1	Horizontal	PASS

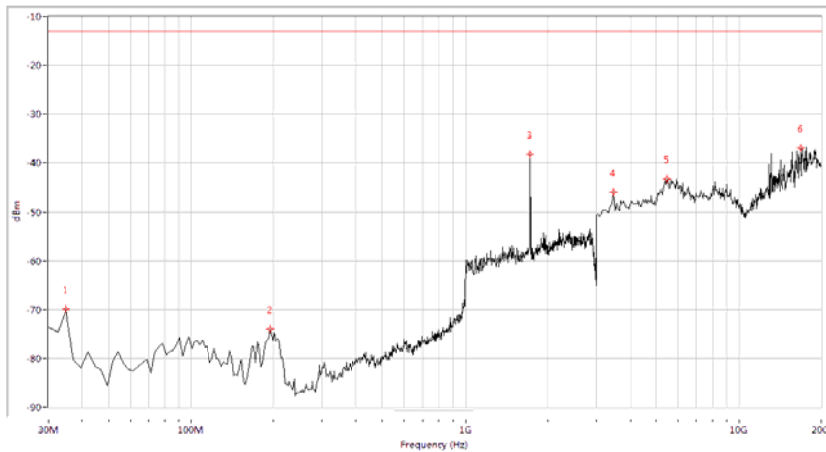


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-68.49	-13.0	55.5	346.6	Vertical	PASS
194.489	-74.29	-13.0	61.3	262.6	Vertical	PASS
1728.180	-36.47	-13.0	23.5	343.2	Vertical	N.A
5798.005	-42.60	-13.0	29.6	360.0	Vertical	PASS
13004.988	-38.01	-13.0	25.0	131.4	Vertical	PASS
18134.663	-35.96	-13.0	23.0	346.6	Vertical	PASS

LTE Band 4 10MHz BW, Mid Channel, QPSK

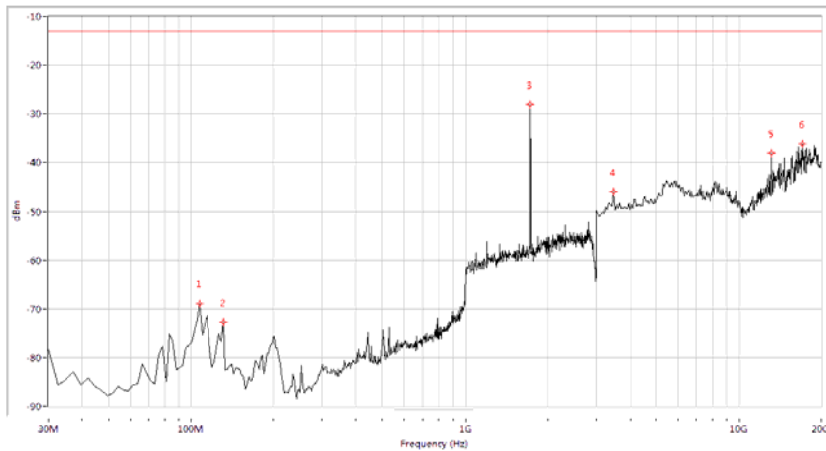


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-71.39	-13.0	58.4	105.7	Horizontal	PASS
521.047	-71.53	-13.0	58.5	350.1	Horizontal	PASS
1733.167	-28.46	-13.0	15.5	330.9	Horizontal	N.A
3466.334	-45.85	-13.0	32.9	47.1	Horizontal	PASS
5628.429	-42.78	-13.0	29.8	330.3	Horizontal	PASS
17159.601	-36.05	-13.0	23.0	91.9	Horizontal	PASS

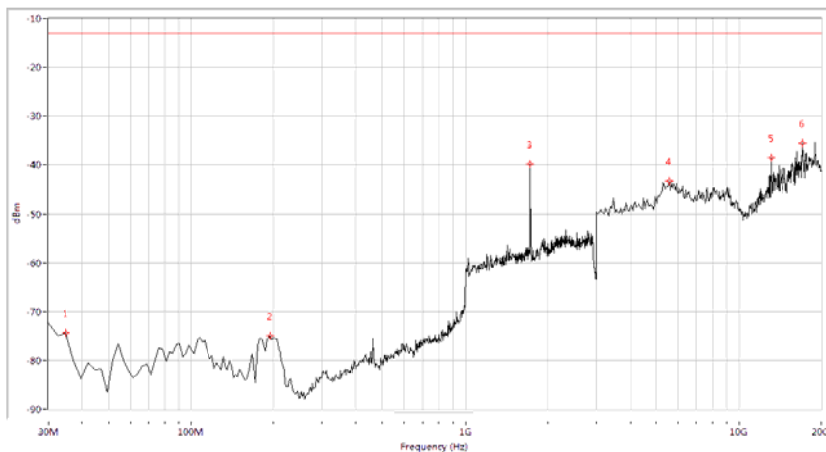


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-69.84	-13.0	56.8	197.1	Vertical	PASS
194.489	-74.04	-13.0	61.0	208.3	Vertical	PASS
1728.180	-38.12	-13.0	25.1	230.8	Vertical	N.A
3466.334	-45.95	-13.0	33.0	316.0	Vertical	PASS
5501.247	-43.32	-13.0	30.3	32.1	Vertical	PASS
16905.237	-36.93	-13.0	23.9	197.1	Vertical	PASS

LTE Band 4 10MHz BW, Mid Channel, 16QAM

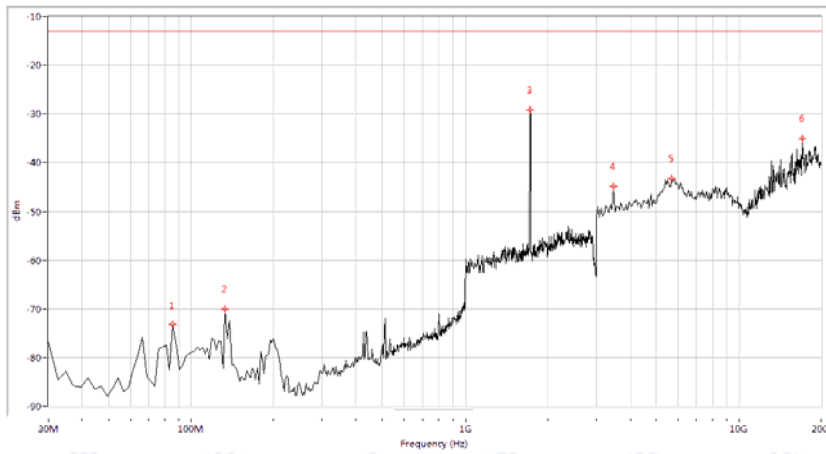


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.95	-13.0	56.0	57.2	Horizontal	PASS
131.596	-72.77	-13.0	59.8	190.4	Horizontal	PASS
1733.167	-28.12	-13.0	15.1	0.4	Horizontal	N.A
3466.334	-45.94	-13.0	32.9	110.5	Horizontal	PASS
13004.988	-38.04	-13.0	25.0	99.2	Horizontal	PASS
17159.601	-36.18	-13.0	23.2	333.9	Horizontal	PASS

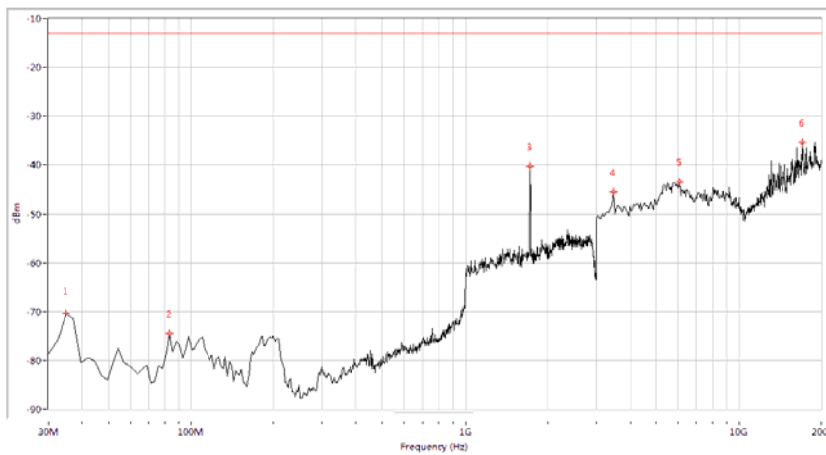


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-74.32	-13.0	61.3	-0.0	Vertical	PASS
194.489	-74.90	-13.0	61.9	262.8	Vertical	PASS
1728.180	-39.82	-13.0	26.8	108.6	Vertical	N.A
5586.035	-43.19	-13.0	30.2	184.9	Vertical	PASS
13004.988	-38.58	-13.0	25.6	83.1	Vertical	PASS
17159.601	-35.49	-13.0	22.5	-0.0	Vertical	PASS

LTE Band 4 15MHz BW, Mid Channel, QPSK

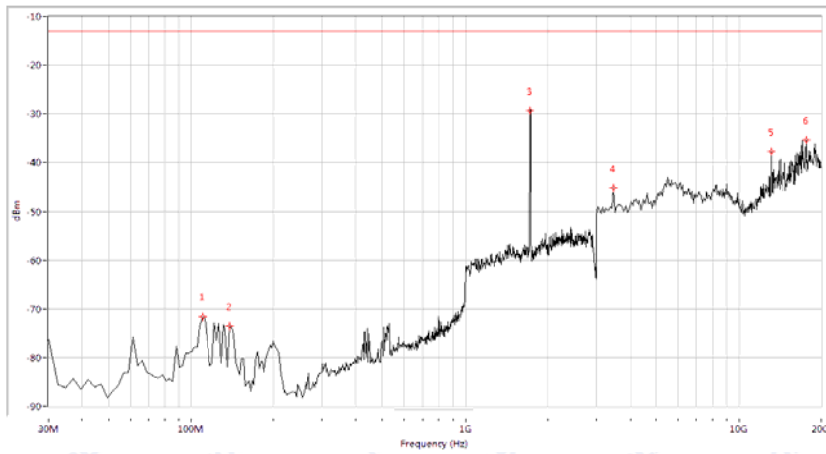


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
85.636	-73.21	-13.0	60.2	210.7	Horizontal	PASS
134.015	-70.01	-13.0	57.0	-0.0	Horizontal	PASS
1733.167	-29.16	-13.0	16.2	253.4	Horizontal	N.A
3466.334	-44.85	-13.0	31.8	350.1	Horizontal	PASS
5713.217	-43.30	-13.0	30.3	142.3	Horizontal	PASS
17159.601	-35.06	-13.0	22.1	142.3	Horizontal	PASS

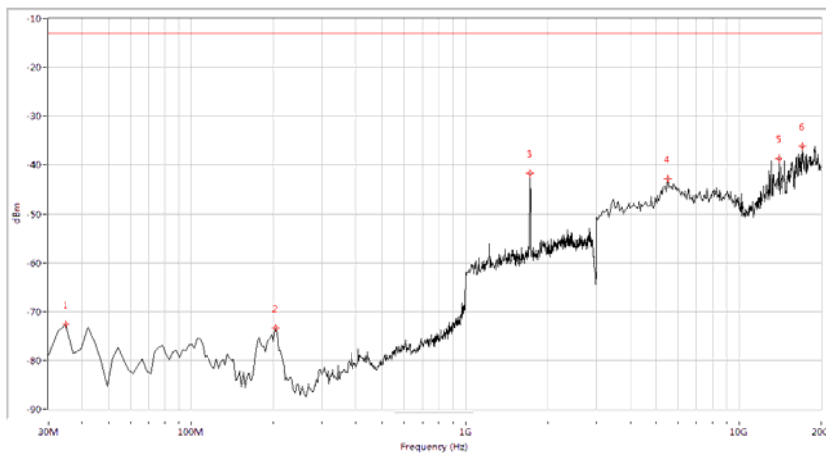


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-70.39	-13.0	57.4	152.2	Vertical	PASS
83.217	-74.50	-13.0	61.5	274.5	Vertical	PASS
1723.192	-40.27	-13.0	27.3	97.6	Vertical	N.A
3466.334	-45.52	-13.0	32.5	21.0	Vertical	PASS
6094.763	-43.41	-13.0	30.4	130.3	Vertical	PASS
17159.601	-35.34	-13.0	22.3	152.2	Vertical	PASS

LTE Band 4 15MHz BW, Mid Channel, 16QAM



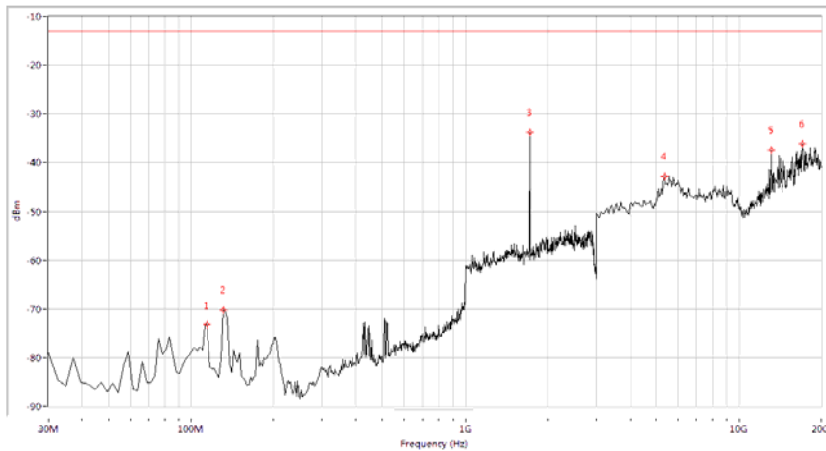
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-71.58	-13.0	58.6	158.7	Horizontal	PASS
138.853	-73.59	-13.0	60.6	47.2	Horizontal	PASS
1733.167	-29.40	-13.0	16.4	0.4	Horizontal	N.A
3466.334	-45.18	-13.0	32.2	250.6	Horizontal	PASS
13047.382	-37.67	-13.0	24.7	260.6	Horizontal	PASS
17625.935	-35.39	-13.0	22.4	105.6	Horizontal	PASS



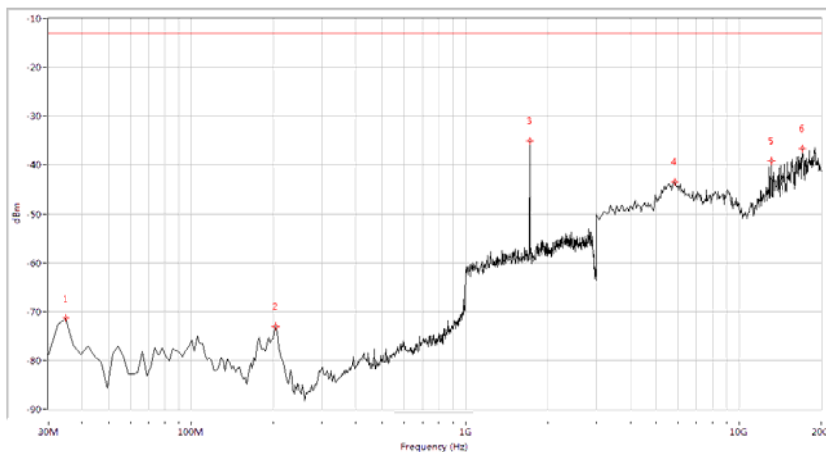
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.60	-13.0	59.6	82.4	Vertical	PASS
204.165	-73.37	-13.0	60.4	173.9	Vertical	PASS
1728.180	-41.70	-13.0	28.7	232.0	Vertical	N.A
5543.641	-42.79	-13.0	29.8	333.2	Vertical	PASS
13895.262	-38.75	-13.0	25.7	16.2	Vertical	PASS
17159.601	-36.11	-13.0	23.1	82.4	Vertical	PASS



LTE Band 4 20MHz BW, Mid Channel, QPSK

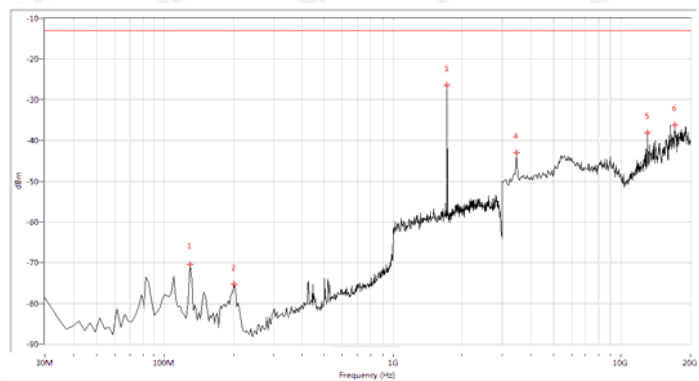


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
114.663	-73.18	-13.0	60.2	78.0	Horizontal	PASS
131.596	-70.26	-13.0	57.3	245.0	Horizontal	PASS
1723.192	-33.83	-13.0	20.8	0.3	Horizontal	N.A
5374.065	-42.80	-13.0	29.8	-0.0	Horizontal	PASS
13004.988	-37.34	-13.0	24.3	276.6	Horizontal	PASS
17159.601	-36.09	-13.0	23.1	130.0	Horizontal	PASS

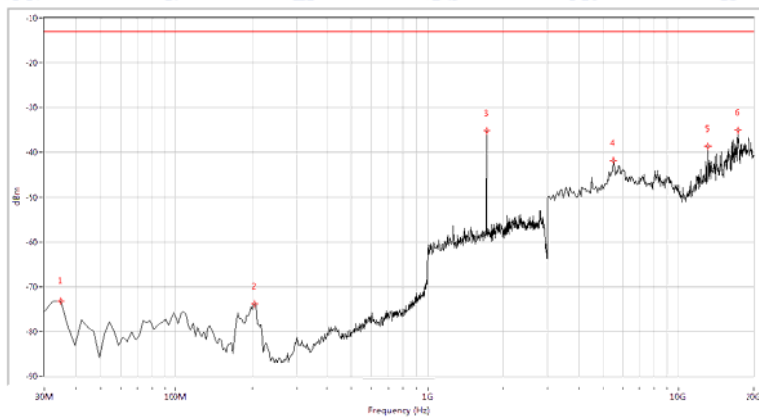


Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-71.33	-13.0	58.3	269.2	Vertical	PASS
204.165	-73.09	-13.0	60.1	248.0	Vertical	PASS
1723.192	-35.06	-13.0	22.1	131.7	Vertical	N.A
5840.399	-43.47	-13.0	30.5	4.9	Vertical	PASS
13047.382	-39.17	-13.0	26.2	196.2	Vertical	PASS
17159.601	-36.60	-13.0	23.6	269.2	Vertical	PASS

LTE Band 4 20MHz BW, Mid Channel, 16QAM



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
129.177	-70.52	-13.0	57.5	60.3	Horizontal	PASS
201.746	-75.38	-13.0	62.4	27.9	Horizontal	PASS
1733.167	-26.43	-13.0	13.4	-0.0	Horizontal	N.A
3466.334	-42.98	-13.0	30.0	145.7	Horizontal	PASS
13004.988	-38.05	-13.0	25.1	9.1	Horizontal	PASS
17159.601	-36.12	-13.0	23.1	360.0	Horizontal	PASS



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-73.14	-13.0	60.1	1.9	Vertical	PASS
204.165	-73.80	-13.0	60.8	47.6	Vertical	PASS
1723.192	-35.21	-13.0	22.2	108.8	Vertical	N.A
5543.641	-41.91	-13.0	28.9	291.8	Vertical	PASS
13047.382	-38.72	-13.0	25.7	301.2	Vertical	PASS
17159.601	-35.07	-13.0	22.1	1.9	Vertical	PASS

\*\*\*\*\* END OF REPORT \*\*\*\*\*