



REPORT No. : XM19080032W05

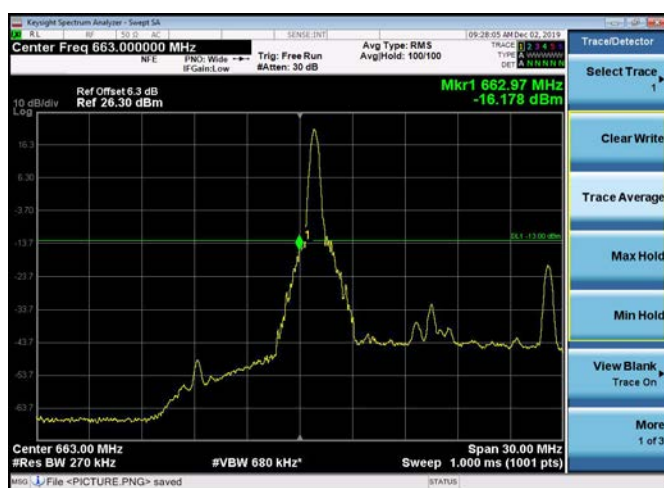
15MHz / 16QAM / Low Channel / Full RB



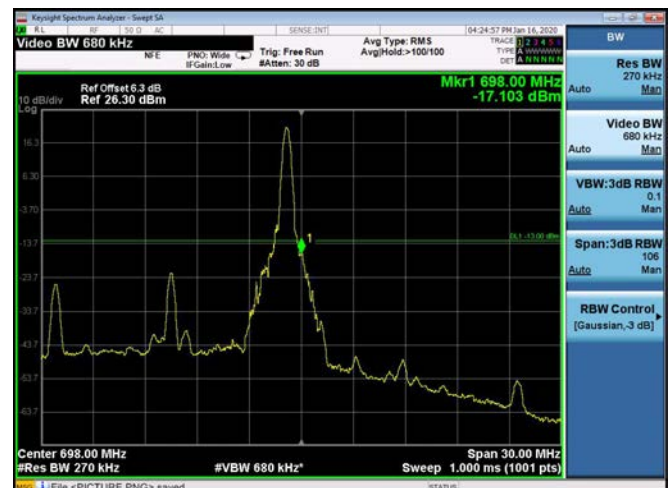
15MHz / 16QAM / High Channel / Full RB



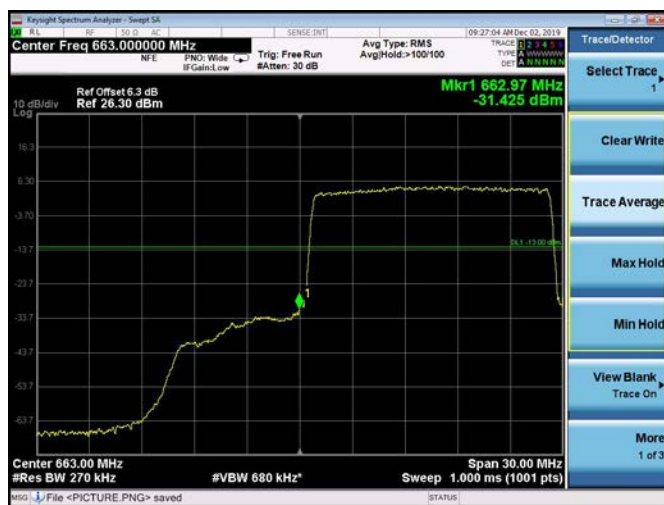
15MHz / 64QAM / Low Channel / 1RB



15MHz / 64QAM / High Channel / 1 RB



15MHz / 64QAM / Low Channel / Full RB



15MHz / 64QAM / High Channel / Full RB





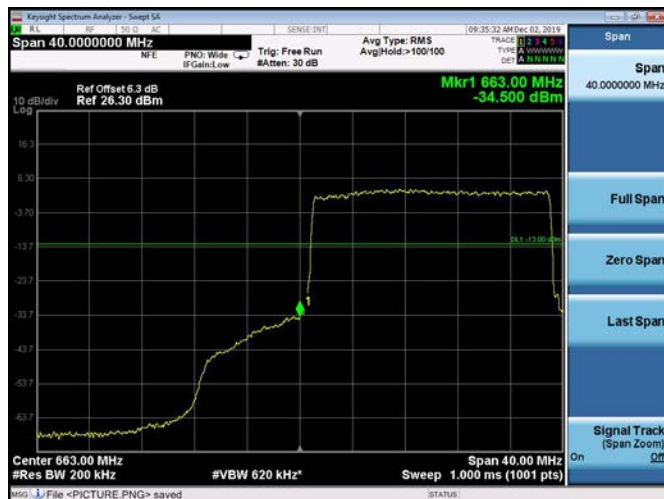
20MHz / QPSK / Low Channel / 1RB



20MHz / QPSK / High Channel / 1 RB



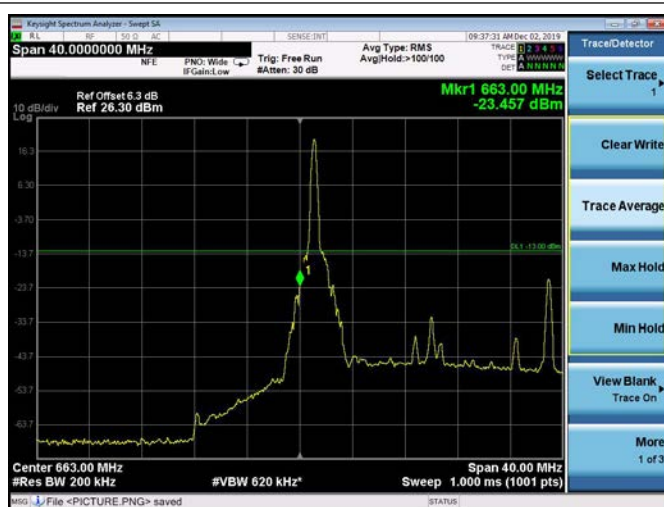
20MHz / QPSK / Low Channel / Full RB



20MHz / QPSK / High Channel / Full RB



20MHz / 16QAM / Low Channel / 1RB



20MHz / 16QAM / High Channel / 1 RB





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20MHz / 16QAM / Low Channel / Full RB



20MHz / 16QAM / High Channel / Full RB



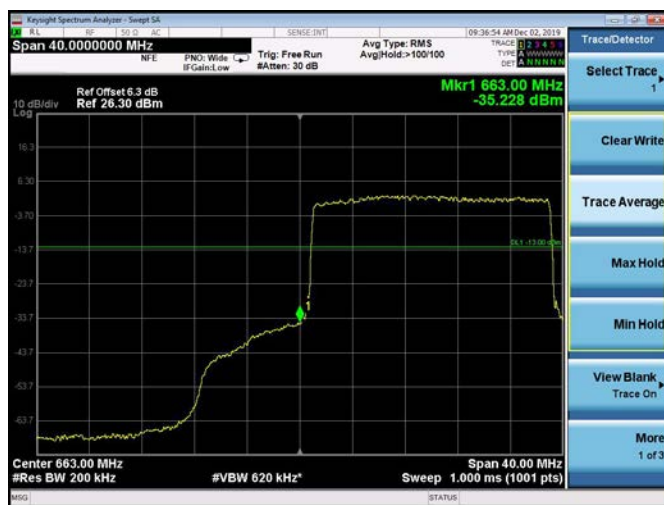
20MHz / 64QAM / Low Channel / 1RB



20MHz / 64QAM / High Channel / 1 RB



20MHz / 64QAM / Low Channel / Full RB



20MHz / 64QAM / High Channel / Full RB

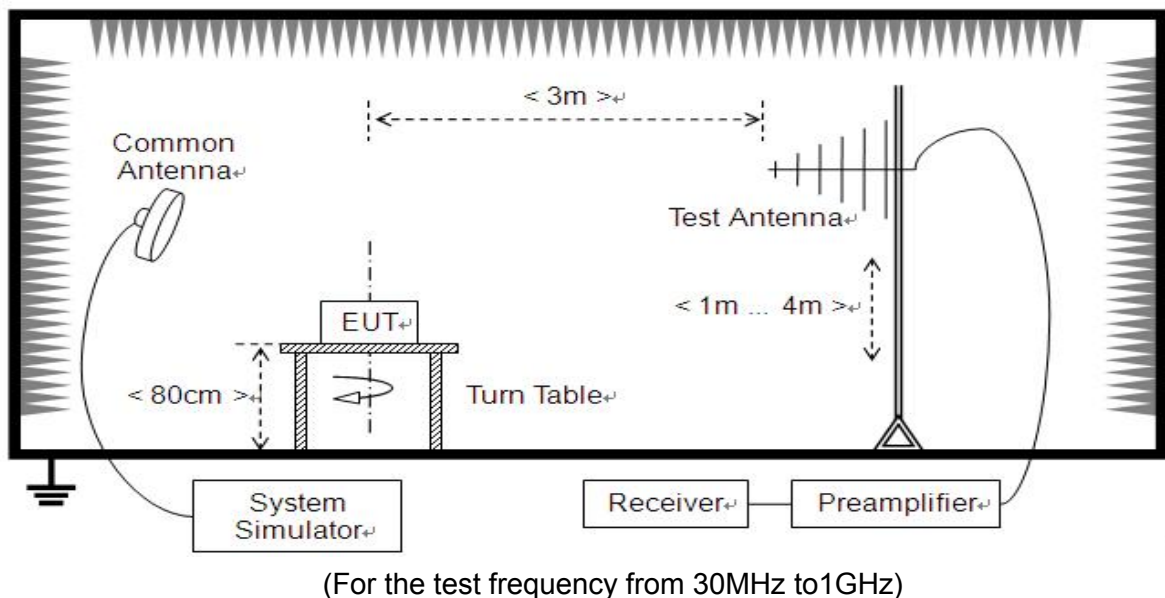


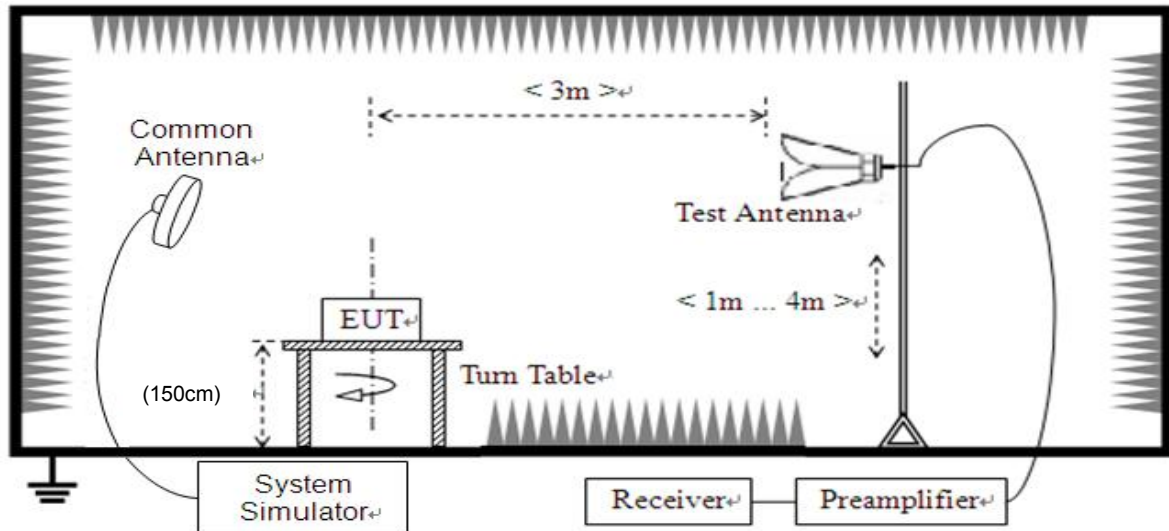
2.7. Transmitter Radiated Power (EIRP/ERP)

2.7.1. Requirement

1. According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
2. According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
3. According to FCC section 27.50 (b) for LTE Band 13, Portable stations (hand-held devices) operating in the 775-788MHz band are limited to 3watts ERP.
4. According to FCC section 27.50 (c) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.
5. According to FCC section 27.50 (d) for LTE Band 4/66, fixed, mobile and portable (hand-held) stations in the 1710-1780MHz band are limited to 1wat EIRP.
6. According to FCC section 27.50 (h) for LTE Band 7/41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2 watts transmitter output power.

2.7.2. Test Description





(For the test frequency above 1GHz)

The testing follows FCC KDB 971168 v03r01 and ANSI/TIA-603-E (2016).

- Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a 3m Full-Anechoic Chamber.
- Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading. $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$
- Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:

$$ERP \text{ (dBm)} = LVL \text{ (dBm)} + LOSS \text{ (dB)}$$
- The maximum ERP is the maximum value determined in the preceding step.
- When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g. transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be



calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIRP \text{ (dBm)} - 2.15 \text{ (dB)}$.

2.7.3. Test Result

Note: Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.

Band	Maximum ERP/EIRP		Limit		Result
	dBm	W	dBm	W	
LTE Band 2	23.27	0.21	33	2	PASS
LTE Band 4	23.18	0.21	30	1	PASS
LTE Band 5	18.45	0.07	38.45	7	PASS
LTE Band 12	17.31	0.05	34.77	3	PASS
LTE Band 13	19.02	0.08	34.77	3	PASS
LTE Band 25	23.78	0.24	33	2	PASS
LTE Band 26	20.53	0.11	38.45	7	PASS
LTE Band 41	26.77	0.48	33	2	PASS
LTE Band 66	22.64	0.18	30	1	PASS
LTE Band 71	22.17	0.16	34.77	3	PASS



LTE Band 2						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	23.71	23.41	23.23
		1	3	23.72	23.25	23.41
		1	5	23.30	23.00	23.22
		3	0	23.07	23.06	23.27
		3	1	22.97	22.96	23.17
		3	3	23.10	23.04	23.23
		6	0	22.27	22.20	22.34
	16-QAM	1	0	22.11	22.24	22.18
		1	3	22.29	22.58	22.33
		1	5	22.11	22.27	22.18
		3	0	22.24	22.09	22.25
		3	1	22.14	21.99	22.15
		3	3	22.26	22.10	22.26
		6	0	21.18	21.09	21.29
	64-QAM	1	0	22.11	22.22	22.15
		1	3	22.39	22.44	22.33
		1	5	22.10	22.27	22.17
		3	0	22.25	22.11	22.24
		3	1	22.15	22.01	22.14
		3	3	22.27	22.12	22.25
		6	0	21.18	21.09	21.26
3	QPSK	1	0	23.12	23.12	23.14
		1	8	23.07	23.15	23.15
		1	14	23.08	23.16	23.18
		8	0	22.18	22.18	22.29
		8	4	22.08	22.08	22.19
		8	7	22.20	22.15	22.26
		15	0	22.07	22.09	22.23
	16-QAM	1	0	22.32	22.02	22.49
		1	8	22.29	22.04	22.54
		1	14	22.21	22.04	22.49
		8	0	21.10	21.12	21.25
		8	4	21.00	21.02	21.15
		8	7	21.05	21.11	21.29
		15	0	20.93	21.09	21.19



	64-QAM	1	0	22.31	22.01	22.49
		1	8	22.27	22.04	22.51
		1	14	22.20	22.04	22.53
		8	0	21.09	21.09	21.28
		8	4	20.99	20.99	21.18
		8	7	21.06	21.10	21.27
		15	0	20.95	21.09	21.20
5	QPSK	1	0	23.02	23.12	23.04
		1	12	23.12	23.04	23.19
		1	24	22.95	22.94	23.08
		12	0	22.10	22.12	22.27
		12	7	22.00	22.02	22.17
		12	13	22.13	22.12	22.23
		50	0	22.08	22.13	22.26
	16-QAM	1	0	22.18	22.21	22.38
		1	12	22.26	22.35	22.57
		1	24	22.10	22.25	22.42
		12	0	20.96	21.09	21.16
		12	7	20.86	20.99	21.06
		12	13	20.95	21.09	21.12
		50	0	21.01	21.11	21.27
	64-QAM	1	0	22.20	22.23	22.39
		1	12	22.28	22.37	22.58
		1	24	22.11	22.24	22.45
		12	0	20.96	21.12	21.18
		12	7	20.86	21.02	21.08
		12	13	21.00	21.08	21.16
		50	0	21.00	21.12	21.25
10	QPSK	1	0	23.12	23.35	23.09
		1	24	23.18	23.33	23.16
		1	49	22.89	23.15	23.14
		25	0	22.10	22.23	22.28
		25	12	22.00	22.13	22.18
		25	25	22.02	22.15	22.25
		50	0	22.04	22.17	22.23
	16-QAM	1	0	22.28	21.98	22.44
		1	24	22.34	22.12	22.52
		1	49	22.12	22.02	22.50



		25	0	21.09	21.14	21.33
		25	12	20.99	21.04	21.23
		25	25	20.95	21.12	21.29
		50	0	21.03	21.12	21.19
	64-QAM	1	0	22.29	21.97	22.43
		1	24	22.34	22.10	22.59
		1	49	22.11	21.99	22.49
		25	0	20.97	21.17	21.31
		25	12	20.87	21.07	21.21
		25	25	21.07	21.10	21.29
		50	0	21.14	21.14	21.22
15	QPSK	1	0	23.03	23.14	23.04
		1	37	23.01	23.20	23.13
		1	74	22.85	23.08	23.09
		36	0	22.19	22.23	22.25
		36	20	22.09	22.13	22.15
		36	39	22.07	22.22	22.29
		75	0	22.08	22.24	22.24
	16-QAM	1	0	22.24	22.02	22.37
		1	37	22.17	22.18	22.48
		1	74	22.07	22.08	22.43
		36	0	21.10	21.16	21.23
		36	20	21.00	21.06	21.13
		36	39	20.95	21.13	21.27
		75	0	21.03	21.20	21.25
	64-QAM	1	0	22.25	22.02	22.39
		1	37	22.16	22.21	22.51
		1	74	22.09	22.09	22.43
		36	0	21.09	21.15	21.22
		36	20	20.99	21.05	21.12
		36	39	21.00	21.11	21.24
		75	0	21.04	21.20	21.25
20	QPSK	1	0	22.96	22.75	22.87
		1	49	23.27	23.18	23.25
		1	99	22.67	22.81	22.90
		50	0	22.23	22.14	22.07
		50	24	21.80	21.90	21.86
		50	50	21.96	22.14	22.12



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		100	0	22.01	22.14	22.18
	16-QAM	1	0	21.78	21.57	22.14
		1	49	21.99	22.07	22.51
		1	99	21.54	21.66	22.16
		50	0	20.95	21.14	21.23
		50	24	20.83	20.97	20.94
		50	50	20.93	21.10	21.15
		100	0	21.00	21.13	21.17
	64-QAM	1	0	21.81	21.61	22.14
		1	49	22.06	22.02	22.59
		1	99	21.56	21.63	22.17
		50	0	20.96	21.15	21.23
		50	24	20.86	21.05	21.13
		50	50	20.91	21.13	21.17
		100	0	21.02	21.15	21.18



LTE Band 4						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	23.18	23.01	23.05
		1	3	23.36	23.08	23.23
		1	5	23.17	23.04	23.03
		3	0	23.12	23.03	23.00
		3	1	23.02	22.93	22.90
		3	3	23.15	23.01	23.01
		6	0	22.23	22.07	22.12
	16-QAM	1	0	22.13	21.92	21.99
		1	3	22.36	22.10	22.24
		1	5	22.15	21.91	22.02
		3	0	22.29	22.04	22.13
		3	1	22.19	21.94	22.03
		3	3	22.31	22.01	22.17
		6	0	21.20	21.02	21.06
	64-QAM	1	0	22.14	21.87	21.97
		1	3	22.39	22.18	22.27
		1	5	22.15	21.94	22.03
		3	0	22.28	22.02	22.13
		3	1	22.18	21.92	22.03
		3	3	22.31	21.98	22.17
		6	0	21.20	21.03	21.08
3	QPSK	1	0	23.17	22.96	22.94
		1	8	23.17	22.94	22.94
		1	14	23.16	22.93	22.95
		8	0	22.19	22.03	22.06
		8	4	22.09	21.93	21.96
		8	7	22.17	22.06	22.05
		15	0	22.16	22.02	21.99
	16-QAM	1	0	22.05	22.27	22.17
		1	8	22.06	22.29	22.13
		1	14	22.05	22.27	22.14
		8	0	21.13	21.02	21.00
		8	4	21.03	20.92	20.90
		8	7	21.13	21.02	20.99
		15	0	21.11	20.98	20.87



	64-QAM	1	0	22.06	22.27	22.18
		1	8	22.07	22.26	22.16
		1	14	22.08	22.24	22.15
		8	0	21.16	21.04	21.02
		8	4	21.06	20.94	20.92
		8	7	21.13	21.03	20.96
		15	0	21.12	20.96	20.88
5	QPSK	1	0	22.95	22.85	22.92
		1	12	23.04	23.00	23.03
		1	24	22.88	22.86	22.87
		12	0	22.15	21.99	22.06
		12	7	22.05	21.89	21.96
		12	13	22.12	22.10	22.02
		50	0	22.15	22.02	22.05
	16-QAM	1	0	22.29	22.16	22.10
		1	12	22.40	22.33	22.22
		1	24	22.24	22.21	22.12
		12	0	21.15	20.96	20.94
		12	7	21.05	20.86	20.84
		12	13	21.10	20.90	20.89
		50	0	21.10	20.98	20.98
	64-QAM	1	0	22.28	22.17	22.08
		1	12	22.41	22.33	22.19
		1	24	22.26	22.17	22.10
		12	0	21.13	20.95	20.95
		12	7	21.03	20.85	20.85
		12	13	21.12	20.95	20.91
		50	0	21.14	21.02	20.98
10	QPSK	1	0	23.20	22.91	23.02
		1	24	23.26	23.07	23.09
		1	49	23.06	22.97	22.92
		25	0	22.22	22.05	22.16
		25	12	22.12	21.95	22.06
		25	25	22.23	22.13	22.06
		50	0	22.25	22.09	22.10
	16-QAM	1	0	22.06	22.27	22.20
		1	24	22.16	22.40	22.29
		1	49	21.95	22.27	22.15



		25	0	21.20	21.12	21.14
		25	12	21.10	21.02	21.04
		25	25	21.25	21.16	21.02
		50	0	21.21	21.07	21.01
	64-QAM	1	0	22.06	22.24	22.17
		1	24	22.18	22.38	22.25
		1	49	21.95	22.23	22.14
		25	0	21.22	21.11	21.14
		25	12	21.12	21.01	21.04
		25	25	21.23	21.22	21.02
		50	0	21.24	21.05	21.04
15	QPSK	1	0	23.07	22.97	22.94
		1	37	23.09	23.10	23.00
		1	74	22.88	23.01	22.87
		36	0	22.25	22.10	22.26
		36	20	22.23	22.10	22.26
		36	39	22.20	22.16	22.09
		75	0	22.24	22.15	22.18
	16-QAM	1	0	22.26	22.00	22.21
		1	37	22.32	22.13	22.26
		1	74	22.14	22.01	22.16
		36	0	21.22	21.03	21.17
		36	20	21.12	20.93	21.07
		36	39	21.14	21.09	21.03
		75	0	21.19	21.08	21.14
	64-QAM	1	0	22.29	21.99	22.19
		1	37	22.32	22.11	22.27
		1	74	22.14	22.00	22.16
		36	0	21.22	21.02	21.19
		36	20	21.12	20.92	21.09
		36	39	21.14	21.10	21.02
		75	0	21.21	21.09	21.12
20	QPSK	1	0	22.97	22.74	22.76
		1	49	23.00	23.18	23.16
		1	99	22.74	22.74	22.67
		50	0	22.13	22.00	22.19
		50	24	22.04	22.16	22.17
		50	50	22.15	22.06	21.99



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		100	0	22.15	22.00	22.02
	16-QAM	1	0	21.83	21.57	21.97
		1	49	22.17	21.93	22.39
		1	99	21.62	21.52	21.89
		50	0	21.10	21.06	21.12
		50	24	21.09	21.08	21.11
		50	50	21.17	21.07	20.96
		100	0	21.14	21.00	21.03
	64-QAM	1	0	21.82	21.55	21.99
		1	49	22.11	22.00	22.37
		1	99	21.66	21.53	21.92
		50	0	21.06	21.02	21.10
		50	24	21.06	20.96	21.08
		50	50	21.16	21.05	20.97
		100	0	21.17	20.99	21.01



LTE Band 5						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	18.31	18.17	18.25
		1	3	18.40	18.41	18.41
		1	5	18.34	18.13	18.20
		3	0	18.31	18.18	18.23
		3	1	18.29	18.17	18.16
		3	3	18.33	18.23	18.17
		6	0	17.26	17.26	17.30
	16-QAM	1	0	17.22	17.29	17.08
		1	3	17.52	17.53	17.25
		1	5	17.24	17.31	17.07
		3	0	17.40	17.20	17.19
		3	1	17.39	17.14	17.15
		3	3	17.44	17.19	17.18
		6	0	16.25	16.19	16.23
	64-QAM	1	0	17.20	17.30	17.09
		1	3	17.34	17.50	17.24
		1	5	17.22	17.30	17.08
		3	0	17.41	17.19	17.18
		3	1	17.40	17.18	17.20
		3	3	17.45	17.23	17.22
		6	0	16.34	16.19	16.19
3	QPSK	1	0	18.26	18.23	18.29
		1	8	18.26	18.14	18.31
		1	14	18.20	18.21	18.29
		8	0	17.26	17.23	17.31
		8	4	17.25	17.20	17.25
		8	7	17.27	17.23	17.26
		15	0	17.22	17.18	17.24
	16-QAM	1	0	17.49	17.37	17.11
		1	8	17.51	17.34	17.12
		1	14	17.47	17.34	17.07
		8	0	16.23	16.17	16.27
		8	4	16.25	16.20	16.25
		8	7	16.23	16.18	16.22
		15	0	16.21	16.06	16.18



	64-QAM	1	0	17.51	17.39	17.10
		1	8	17.48	17.34	17.13
		1	14	17.47	17.35	17.07
		8	0	16.25	16.18	16.26
		8	4	16.31	16.19	16.25
		8	7	16.25	16.17	16.19
		15	0	18.26	18.23	18.29
5	QPSK	1	0	18.17	18.16	18.10
		1	12	18.25	18.27	18.24
		1	24	18.17	18.16	18.08
		12	0	17.26	17.23	17.25
		12	7	17.25	17.20	17.21
		12	13	17.27	17.17	17.16
		50	0	17.22	17.19	17.22
	16-QAM	1	0	17.43	17.26	17.42
		1	12	17.50	17.40	17.48
		1	24	17.41	17.29	17.38
		12	0	16.15	16.17	16.24
		12	7	16.14	16.15	16.20
		12	13	16.16	16.13	16.18
		50	0	16.28	16.18	16.20
	64-QAM	1	0	17.41	17.28	17.38
		1	12	17.49	17.37	17.48
		1	24	17.42	17.31	17.38
		12	0	16.14	16.18	16.27
		12	7	16.12	16.14	16.12
		12	13	16.15	16.10	16.18
		50	0	16.27	16.18	16.23
10	QPSK	1	0	18.25	18.31	18.29
		1	24	18.37	18.45	18.42
		1	49	18.22	18.23	18.24
		25	0	17.24	17.32	17.33
		25	12	17.21	17.22	17.19
		25	25	17.31	17.25	17.24
		50	0	17.27	17.25	17.29
	16-QAM	1	0	17.45	17.36	17.18
		1	24	17.63	17.46	17.25
		1	49	17.46	17.39	17.08



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		25	0	16.32	16.33	16.36
		25	12	16.26	16.30	16.33
		25	25	16.37	16.26	16.20
		50	0	16.24	16.25	16.27
	64-QAM	1	0	17.52	17.39	17.17
		1	24	17.61	17.54	17.21
		1	49	17.43	17.42	17.06
		25	0	16.35	16.32	16.29
		25	12	16.34	16.33	16.25
		25	25	16.36	16.27	16.21
		50	0	16.26	16.22	16.24



LTE Band 12						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	17.12	17.12	17.18
		1	3	17.42	17.33	17.38
		1	5	17.41	17.09	17.18
		3	0	17.24	17.19	17.16
		3	1	17.22	17.18	17.15
		3	3	17.25	17.16	17.17
		6	0	16.28	16.25	16.16
	16-QAM	1	0	16.24	16.26	15.92
		1	3	16.41	16.46	16.05
		1	5	16.20	16.28	15.84
		3	0	16.35	16.16	15.97
		3	1	16.31	16.12	15.94
		3	3	16.40	16.15	15.95
		6	0	15.39	15.25	15.14
	64-QAM	1	0	16.17	16.24	15.91
		1	3	16.36	16.54	15.99
		1	5	16.24	16.29	15.88
		3	0	16.34	16.14	15.98
		3	1	16.31	16.13	16.00
		3	3	16.37	16.16	15.99
		6	0	15.39	15.24	15.18
3	QPSK	1	0	17.19	16.86	17.53
		1	8	17.24	16.94	16.90
		1	14	17.23	16.78	16.76
		8	0	16.16	16.06	16.05
		8	4	16.15	16.05	16.00
		8	7	16.19	16.09	15.88
		15	0	16.16	16.01	15.97
	16-QAM	1	0	16.05	16.13	16.36
		1	8	16.01	16.05	16.14
		1	14	15.97	16.04	16.18
		8	0	14.97	15.07	15.22
		8	4	14.95	15.00	15.11
		8	7	14.96	15.07	15.17
		15	0	15.13	14.81	15.08



	64-QAM	1	0	15.78	15.91	16.41
		1	8	16.06	15.89	16.26
		1	14	15.77	15.93	16.60
		8	0	15.13	14.99	15.15
		8	4	15.10	14.98	15.09
		8	7	15.16	15.00	15.10
		15	0	15.13	14.89	15.03
5	QPSK	1	0	17.02	16.64	17.12
		1	12	17.08	16.89	16.91
		1	24	17.07	16.69	16.57
		12	0	16.17	15.99	15.96
		12	7	16.15	15.98	15.95
		12	13	16.16	15.96	15.95
		50	0	16.31	15.98	15.99
	16-QAM	1	0	16.17	15.95	15.67
		1	12	16.35	15.82	15.96
		1	24	16.27	15.78	15.79
		12	0	15.22	14.92	14.87
		12	7	15.16	14.90	14.86
		12	13	15.31	14.86	14.84
		50	0	15.34	14.91	14.90
	64-QAM	1	0	16.21	15.81	15.87
		1	12	16.15	15.82	16.01
		1	24	16.29	15.78	15.90
		12	0	15.26	14.84	14.92
		12	7	15.27	14.85	14.89
		12	13	15.32	14.75	14.86
		50	0	15.30	14.79	14.94
10	QPSK	1	0	17.24	16.93	17.01
		1	24	17.31	16.92	16.68
		1	49	17.08	16.77	16.83
		25	0	16.18	15.77	16.21
		25	12	16.10	16.01	16.15
		25	25	16.06	15.80	16.06
		50	0	16.28	15.79	16.05
	16-QAM	1	0	16.11	15.73	15.97
		1	24	16.36	15.83	16.09
		1	49	16.21	15.75	15.96



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		25	0	15.16	14.95	15.07
		25	12	15.00	15.09	15.10
		25	25	15.35	14.89	15.00
		50	0	15.87	14.93	15.06
	64-QAM	1	0	16.20	15.60	16.07
		1	24	16.39	15.70	16.03
		1	49	16.22	15.61	15.86
		25	0	15.14	14.82	14.88
		25	12	15.15	14.93	14.85
		25	25	15.27	14.95	14.91
		50	0	15.19	14.70	14.88



LTE Band 13						
Bandwidth MHz	Modulation	RB	RB	Measured ERP		
		Size	Offset	Low Channel dBm	Middle Channel dBm	High Channel dBm
5	QPSK	1	0	18.88	18.82	18.79
		1	12	18.99	18.87	18.87
		1	24	18.81	18.73	18.73
		12	0	17.91	17.92	17.82
		12	7	17.91	17.87	17.85
		12	13	17.86	17.90	17.87
		50	0	17.84	17.90	17.87
	16-QAM	1	0	17.94	17.99	17.99
		1	12	18.07	18.11	18.10
		1	24	17.93	18.01	17.93
		12	0	16.76	16.91	16.76
		12	7	16.71	16.90	16.79
		12	13	16.75	16.89	16.81
		50	0	16.82	16.90	16.87
	64QAM	1	0	17.92	18.01	18.00
		1	12	18.04	18.13	18.10
		1	24	17.92	17.99	17.92
		12	0	16.81	16.89	16.78
		12	7	16.74	16.90	16.79
		12	13	16.74	16.91	16.80
		50	0	16.80	16.89	16.85
10	QPSK	1	0	/	18.94	/
		1	24	/	19.02	/
		1	49	/	18.82	/
		25	0	/	17.95	/
		25	12	/	17.91	/
		25	25	/	17.94	/
		50	0	/	17.94	/
	16-QAM	1	0	/	18.03	/
		1	24	/	18.22	/
		1	49	/	17.98	/
		25	0	/	17.02	/
		25	12	/	17.01	/
		25	25	/	17.04	/



	64QAM	50	0	/	16.96	/
		1	0	/	18.01	/
		1	24	/	18.24	/
		1	49	/	18.01	/
		25	0	/	17.00	/
		25	12	/	16.99	/
		25	25	/	17.05	/
		50	0	/	16.99	/

LTE Band 25						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	24.13	23.99	24.27
		1	3	24.27	24.18	24.54
		1	5	24.09	23.99	24.33
		3	0	24.10	24.11	24.27
		3	1	24.08	24.06	24.20
		3	3	24.04	24.07	24.22
		6	0	23.02	23.01	23.15
	16-QAM	1	0	23.05	23.21	23.02
		1	3	23.25	23.34	23.14
		1	5	23.01	23.20	22.98
		3	0	23.17	23.06	23.03
		3	1	23.16	23.05	23.00
		3	3	23.17	23.07	23.02
		6	0	22.13	22.08	22.00
	64-QAM	1	0	23.03	23.18	22.93
		1	3	23.23	23.34	23.21
		1	5	22.96	23.18	22.76
		3	0	23.16	23.07	22.82
		3	1	23.15	23.05	22.80
		3	3	23.17	23.08	22.77
		6	0	22.10	22.08	21.97



3	QPSK	1	0	24.19	24.08	24.22
		1	8	24.18	24.01	24.23
		1	14	24.16	24.06	24.31
		8	0	23.08	23.09	23.27
		8	4	23.06	23.08	23.27
		8	7	23.08	23.12	23.31
		15	0	23.05	23.09	23.22
	16-QAM	1	0	23.01	23.35	23.34
		1	8	22.99	23.36	23.31
		1	14	22.92	23.37	23.24
		8	0	22.14	22.16	22.04
		8	4	22.13	22.00	22.03
		8	7	22.14	22.17	22.21
		15	0	22.11	22.13	21.99
	64-QAM	1	0	23.00	23.37	23.20
		1	8	22.98	23.36	23.11
		1	14	22.95	23.38	23.05
		8	0	22.12	22.19	22.15
		8	4	22.10	22.17	22.10
		8	7	22.14	22.19	22.06
		15	0	22.13	22.14	22.10
5	QPSK	1	0	23.92	23.97	24.17
		1	12	23.99	24.09	24.33
		1	24	23.75	23.99	24.14
		12	0	23.03	23.13	22.85
		12	7	23.02	23.12	22.84
		12	13	23.02	23.07	22.79
		50	0	23.07	23.14	22.75
	16-QAM	1	0	23.26	23.24	22.82
		1	12	23.29	23.36	23.00
		1	24	23.13	23.26	22.82
		12	0	22.09	22.19	21.88
		12	7	22.06	22.10	21.83
		12	13	22.11	22.18	21.79
		50	0	22.11	22.27	21.91
	64-QAM	1	0	23.23	23.27	22.81
		1	12	23.27	23.38	22.92
		1	24	23.15	23.26	22.78



		12	0	22.12	22.19	21.89
		12	7	22.09	22.14	21.83
		12	13	22.11	22.18	21.76
		50	0	22.12	22.25	21.88
10	QPSK	1	0	24.21	24.06	24.16
		1	24	24.26	24.23	24.40
		1	49	24.03	24.07	24.25
		25	0	23.05	23.20	22.99
		25	12	23.03	23.19	22.94
		25	25	23.01	23.16	22.82
		50	0	23.04	23.18	22.80
	16-QAM	1	0	23.01	23.33	22.82
		1	24	23.03	23.52	23.13
		1	49	22.83	23.33	22.88
		25	0	22.12	22.37	22.05
		25	12	22.13	22.35	21.98
		25	25	22.09	22.30	21.90
		50	0	22.10	22.32	22.02
	64-QAM	1	0	23.00	23.35	22.99
		1	24	22.98	23.52	23.21
		1	49	22.82	23.34	22.81
		25	0	22.09	22.37	21.96
		25	12	22.05	22.36	21.99
		25	25	22.06	22.35	22.01
		50	0	22.08	22.29	21.93
15	QPSK	1	0	24.14	23.99	24.06
		1	37	24.09	24.09	23.83
		1	74	23.86	23.98	23.66
		36	0	23.10	23.11	22.73
		36	20	23.08	23.07	22.72
		36	39	22.97	22.96	22.68
		75	0	23.02	23.17	22.74
	16-QAM	1	0	23.07	23.25	22.71
		1	37	23.02	23.05	22.86
		1	74	22.90	23.00	22.76
		36	0	22.09	22.24	21.81
		36	20	22.06	22.17	21.78
		36	39	21.99	22.15	21.74



	64-QAM	75	0	22.09	22.24	21.86
		1	0	23.07	23.22	22.71
		1	37	23.02	23.13	22.86
		1	74	22.89	23.11	22.76
		36	0	22.10	22.08	21.80
		36	20	22.06	22.00	21.79
		36	39	22.01	22.01	21.71
		75	0	22.10	22.15	21.86
20	QPSK	1	0	23.46	23.69	23.36
		1	49	23.78	23.77	23.77
		1	99	23.18	23.29	23.43
		50	0	22.67	22.64	22.66
		50	24	22.63	22.56	22.59
		50	50	22.45	22.54	22.53
		100	0	22.54	22.57	22.56
	16-QAM	1	0	22.23	22.07	22.58
		1	49	22.47	22.50	22.96
		1	99	22.04	22.08	22.56
		50	0	21.56	21.81	21.80
		50	24	21.43	21.78	21.64
		50	50	21.66	21.69	21.68
		100	0	21.69	21.75	21.77
	64-QAM	1	0	22.28	22.08	22.59
		1	49	22.63	22.53	22.97
		1	99	22.05	22.08	22.59
		50	0	21.74	21.83	21.83
		50	24	21.79	21.80	21.79
		50	50	21.78	21.71	21.69
		100	0	21.88	21.76	21.74



LTE Band 26						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	20.60	20.37	20.50
		1	3	20.79	20.56	20.78
		1	5	20.56	20.35	20.55
		3	0	20.55	20.44	20.54
		3	1	20.53	20.40	20.51
		3	3	20.54	20.39	20.50
		6	0	19.52	19.39	19.50
	16-QAM	1	0	19.43	19.50	19.29
		1	3	19.72	19.72	19.47
		1	5	19.39	19.50	19.30
		3	0	19.65	19.40	19.42
		3	1	19.64	19.39	19.40
		3	3	19.67	19.40	19.41
		6	0	18.52	18.38	18.42
	64-QAM	1	0	19.47	19.53	19.30
		1	3	19.71	19.77	19.48
		1	5	19.49	19.50	19.32
		3	0	19.65	19.40	19.40
		3	1	19.66	19.39	19.41
		3	3	19.69	19.41	19.42
		6	0	18.53	18.35	18.41
3	QPSK	1	0	20.56	20.42	20.56
		1	8	20.51	20.41	20.58
		1	14	20.45	20.51	20.66
		8	0	19.51	19.44	19.54
		8	4	19.48	19.45	19.50
		8	7	19.53	19.51	19.53
		15	0	19.49	19.46	19.48
	16-QAM	1	0	19.74	19.56	19.32
		1	8	19.74	19.57	19.40
		1	14	19.75	19.60	19.34
		8	0	18.49	18.42	18.48
		8	4	18.48	18.34	18.47
		8	7	18.52	18.44	18.50
		15	0	18.45	18.35	18.41



	64-QAM	1	0	19.79	19.61	19.31
		1	8	19.76	19.58	19.37
		1	14	19.69	19.57	19.35
		8	0	18.50	18.42	18.51
		8	4	18.47	18.40	18.50
		8	7	18.51	18.44	18.49
		15	0	18.45	18.36	18.42
5	QPSK	1	0	20.46	20.36	20.31
		1	12	20.49	20.46	20.47
		1	24	20.42	20.36	20.37
		12	0	19.42	19.48	19.51
		12	7	19.38	19.45	19.50
		12	13	19.48	19.44	19.39
		50	0	19.51	19.43	19.48
	16-QAM	1	0	19.70	19.51	19.65
		1	12	19.75	19.63	19.71
		1	24	19.65	19.51	19.59
		12	0	18.41	18.37	18.53
		12	7	18.45	18.34	18.51
		12	13	18.51	18.39	18.42
		50	0	18.52	18.44	18.45
	64-QAM	1	0	19.71	19.51	19.61
		1	12	19.76	19.62	19.72
		1	24	19.66	19.51	19.60
		12	0	18.41	18.36	18.48
		12	7	18.37	18.32	18.45
		12	13	18.45	18.37	18.40
		50	0	18.52	18.45	18.44
10	QPSK	1	0	20.58	20.49	20.53
		1	24	20.63	20.58	20.61
		1	49	20.49	20.50	20.57
		25	0	19.46	19.46	19.49
		25	12	19.33	19.44	19.39
		25	25	19.41	19.43	19.42
		50	0	19.46	19.47	19.47
	16-QAM	1	0	19.77	19.62	19.34
		1	24	19.80	19.70	19.43
		1	49	19.70	19.58	19.33



		25	0	18.49	18.43	18.52
		25	12	18.33	18.39	18.48
		25	25	18.51	18.49	18.40
		50	0	18.43	18.42	18.48
	64-QAM	1	0	19.80	19.61	19.32
		1	24	19.92	19.69	19.45
		1	49	19.72	19.60	19.31
		25	0	18.53	18.45	18.56
		25	12	18.49	18.40	18.55
		25	25	18.49	18.44	18.38
		50	0	18.48	18.45	18.45
15	QPSK	1	0	20.47	20.41	20.44
		1	37	20.44	20.45	20.53
		1	74	20.32	20.39	20.52
		36	0	19.50	19.49	19.64
		36	20	19.49	19.55	19.42
		36	39	19.50	19.54	19.51
		75	0	19.47	19.50	19.60
	16-QAM	1	0	19.68	19.54	19.39
		1	37	19.65	19.57	19.47
		1	74	19.57	19.51	19.34
		36	0	18.45	18.39	18.50
		36	20	18.44	18.47	18.40
		36	39	18.42	18.41	18.43
		75	0	18.46	18.45	18.57
	64-QAM	1	0	19.72	19.51	19.39
		1	37	19.71	19.58	19.48
		1	74	19.59	19.49	19.38
		36	0	18.40	18.43	18.53
		36	20	18.36	18.33	18.44
		36	39	18.43	18.40	18.39
		75	0	18.44	18.47	18.54



LTE Band 41						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	26.04	26.45	26.46
		1	12	26.17	26.63	26.59
		1	24	25.94	26.51	26.42
		12	0	26.06	26.53	26.60
		12	7	26.05	26.49	26.53
		12	13	26.02	26.56	26.53
		50	0	26.05	26.53	26.56
	16-QAM	1	0	26.30	26.49	26.73
		1	12	26.40	26.65	26.86
		1	24	26.19	26.54	26.68
		12	0	25.95	26.37	26.52
		12	7	25.94	26.35	26.45
		12	13	25.90	26.40	26.47
		50	0	26.01	26.42	26.50
	64-QAM	1	0	26.28	26.49	26.73
		1	12	26.40	26.63	26.85
		1	24	26.19	26.53	26.66
		12	0	25.96	26.36	26.56
		12	7	25.94	26.32	26.54
		12	13	25.89	26.40	26.51
		50	0	26.00	26.43	26.51
10	QPSK	1	0	26.12	26.53	26.73
		1	24	26.26	26.78	26.88
		1	49	25.91	26.61	26.59
		25	0	26.07	26.57	26.67
		25	12	26.05	26.56	26.54
		25	25	26.03	26.61	26.58
		50	0	26.01	26.56	26.61
	16-QAM	1	0	26.36	26.53	26.55
		1	24	26.46	26.78	26.71
		1	49	26.13	26.60	26.43
		25	0	26.08	26.54	26.62
		25	12	26.06	26.50	26.60
		25	25	26.00	26.55	26.53
		50	0	25.97	26.47	26.52



	64-QAM	1	0	26.42	26.51	26.54
		1	24	26.46	26.77	26.72
		1	49	26.12	26.60	26.42
		25	0	26.09	26.51	26.59
		25	12	26.06	26.47	26.58
		25	25	26.00	26.54	26.53
		50	0	25.95	26.45	26.55
15	QPSK	1	0	26.06	26.41	26.77
		1	37	25.95	26.55	26.79
		1	74	25.79	26.51	26.60
		36	0	26.11	26.59	26.37
		36	20	26.16	26.26	26.46
		36	39	26.02	26.65	26.66
		75	0	26.09	26.64	26.66
	16-QAM	1	0	26.29	26.39	26.61
		1	37	26.18	26.57	26.67
		1	74	26.03	26.54	26.47
		36	0	26.05	26.48	26.65
		36	20	25.99	26.50	26.58
		36	39	25.92	26.56	26.54
		75	0	26.03	26.54	26.62
	64-QAM	1	0	26.29	26.38	26.63
		1	37	26.20	26.56	26.65
		1	74	26.03	26.51	26.47
		36	0	26.08	26.48	26.63
		36	20	26.07	26.54	26.61
		36	39	25.93	26.55	26.54
		75	0	26.02	26.54	26.57
20	QPSK	1	0	25.96	26.31	26.50
		1	49	26.11	26.77	26.72
		1	99	25.68	26.43	26.33
		50	0	26.03	26.66	26.58
		50	24	26.00	26.50	26.30
		50	50	25.90	26.58	26.47
		100	0	25.95	26.56	26.55
	16-QAM	1	0	26.00	26.14	26.08
		1	49	26.13	26.61	26.42
		1	99	25.74	26.31	25.92



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		50	0	25.94	26.41	26.54
		50	24	25.95	26.31	26.34
		50	50	25.83	26.46	26.46
		100	0	25.90	26.49	26.49
	64-QAM	1	0	26.01	26.14	26.10
		1	49	26.13	26.61	26.43
		1	99	25.72	26.29	25.92
		50	0	25.97	26.42	26.54
		50	24	25.95	26.40	26.36
		50	50	25.84	26.45	26.44
		100	0	25.91	26.49	26.50



LTE Band 66						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	22.80	22.73	22.66
		1	3	23.03	22.98	22.57
		1	5	22.84	22.62	22.42
		3	0	22.78	22.56	22.43
		3	1	22.80	22.49	22.38
		3	3	22.83	22.45	22.40
		6	0	21.88	21.61	21.50
	16-QAM	1	0	21.79	21.68	21.35
		1	3	22.10	21.94	21.45
		1	5	21.83	21.91	21.35
		3	0	21.81	21.72	21.43
		3	1	21.73	21.65	21.39
		3	3	21.94	21.73	21.42
		6	0	20.82	20.86	20.46
	64-QAM	1	0	21.77	21.81	21.34
		1	3	21.85	22.13	21.47
		1	5	21.54	21.81	21.34
		3	0	21.68	21.55	21.44
		3	1	21.52	21.42	21.36
		3	3	21.53	21.64	21.35
		6	0	20.58	20.80	20.47
3	QPSK	1	0	22.38	22.36	22.46
		1	8	22.34	22.37	22.52
		1	14	22.30	22.37	22.48
		8	0	21.35	21.46	21.48
		8	4	21.30	21.41	21.39
		8	7	21.31	21.46	21.49
		15	0	21.30	21.40	21.44
	16-QAM	1	0	21.65	21.61	21.33
		1	8	21.62	21.57	21.38
		1	14	21.59	21.59	21.37
		8	0	20.33	20.41	20.52
		8	4	20.30	20.40	20.46
		8	7	20.29	20.42	20.49
		15	0	20.25	20.28	20.45



	64-QAM	1	0	21.66	21.61	21.31
		1	8	21.60	21.60	21.35
		1	14	21.57	21.55	21.34
		8	0	20.35	20.41	20.47
		8	4	20.31	20.39	20.45
		8	7	20.30	20.41	20.47
		15	0	20.25	20.31	20.47
5	QPSK	1	0	22.29	22.31	22.30
		1	12	22.37	22.43	22.39
		1	24	22.25	22.27	22.28
		12	0	21.31	21.49	21.44
		12	7	21.30	21.46	21.41
		12	13	21.30	21.42	21.46
		50	0	21.32	21.46	21.48
	16-QAM	1	0	21.56	21.54	21.63
		1	12	21.65	21.68	21.76
		1	24	21.51	21.54	21.59
		12	0	20.24	20.39	20.49
		12	7	20.28	20.38	20.48
		12	13	20.26	20.35	20.47
		50	0	20.36	20.42	20.49
	64-QAM	1	0	21.57	21.52	21.59
		1	12	21.64	21.61	21.73
		1	24	21.56	21.51	21.62
		12	0	20.29	20.38	20.51
		12	7	20.30	20.35	20.46
		12	13	20.27	20.35	20.46
		50	0	20.34	20.43	20.48
10	QPSK	1	0	22.36	22.46	22.48
		1	24	22.44	22.55	22.63
		1	49	22.35	22.35	22.49
		25	0	21.41	21.50	21.57
		25	12	21.40	21.47	21.56
		25	25	21.47	21.47	21.55
		50	0	21.45	21.45	21.58
	16-QAM	1	0	21.64	21.57	21.35
		1	24	21.72	21.71	21.48
		1	49	21.62	21.60	21.35



		25	0	20.49	20.50	20.58
		25	12	20.44	20.47	20.54
		25	25	20.56	20.50	20.55
		50	0	20.46	20.42	20.55
	64-QAM	1	0	21.62	21.61	21.39
		1	24	21.66	21.72	21.48
		1	49	21.62	21.63	21.38
		25	0	20.50	20.53	20.55
		25	12	20.46	20.50	20.52
		25	25	20.57	20.51	20.54
		50	0	20.47	20.44	20.56
15	QPSK	1	0	22.32	22.40	22.44
		1	37	22.40	22.39	22.59
		1	74	22.30	22.30	22.39
		36	0	21.47	21.56	21.61
		36	20	21.49	21.56	21.60
		36	39	21.53	21.53	21.64
		75	0	21.50	21.57	21.64
	16-QAM	1	0	21.55	21.54	21.52
		1	37	21.71	21.66	21.61
		1	74	21.55	21.55	21.44
		36	0	20.41	20.50	20.56
		36	20	20.40	20.49	20.55
		36	39	20.47	20.46	20.54
		75	0	20.48	20.53	20.61
	64-QAM	1	0	21.55	21.50	21.50
		1	37	21.69	21.62	21.60
		1	74	21.58	21.51	21.44
		36	0	20.41	20.52	20.58
		36	20	20.40	20.50	20.54
		36	39	20.50	20.46	20.56
		75	0	20.48	20.53	20.60
20	QPSK	1	0	22.17	22.34	22.15
		1	49	22.58	22.64	22.57
		1	99	22.19	22.16	22.14
		50	0	21.33	21.52	21.55
		50	24	21.50	21.38	21.50
		50	50	21.51	21.43	21.52



	16-QAM	100	0	21.39	21.47	21.56
		1	0	21.36	21.10	20.99
		1	49	21.78	21.48	21.40
		1	99	21.33	21.08	20.98
		50	0	20.34	20.49	20.60
		50	24	20.48	20.59	20.54
		50	50	20.57	20.43	20.56
		100	0	20.42	20.46	20.55
	64-QAM	1	0	21.36	21.10	20.98
		1	49	21.73	21.48	21.36
		1	99	21.32	21.07	20.97
		50	0	20.33	20.45	20.60
		50	24	20.40	20.43	20.43
		50	50	20.57	20.38	20.56
		100	0	20.43	20.45	20.52

LTE Band 71						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	21.44	21.02	21.54
		1	12	21.24	21.64	22.00
		1	24	20.99	21.27	21.34
		12	0	21.12	21.27	21.05
		12	7	21.48	21.41	21.00
		12	13	21.09	21.63	21.51
		50	0	20.93	21.55	21.25
	16-QAM	1	0	21.31	21.41	21.18
		1	12	20.89	21.75	21.56
		1	24	20.79	21.39	21.05
		12	0	21.10	21.64	21.43
		12	7	21.29	21.33	21.16
		12	13	20.52	21.25	20.88
		50	0	20.76	21.48	21.54
	64-QAM	1	0	21.45	21.00	20.92
		1	12	21.24	21.88	21.50
		1	24	20.88	21.52	20.95
		12	0	21.43	21.28	21.68
		12	7	21.10	21.23	21.37



		12	13	21.27	21.68	20.87
		50	0	21.34	21.61	20.95
10	QPSK	1	0	20.66	21.43	21.19
		1	24	21.27	21.52	21.99
		1	49	20.79	20.90	21.23
		25	0	21.38	21.80	21.18
		25	12	21.13	20.61	20.89
		25	25	21.13	21.49	21.02
		50	0	20.74	20.90	21.57
	16-QAM	1	0	21.06	21.44	21.16
		1	24	21.61	21.54	21.04
		1	49	20.69	21.34	20.26
		25	0	21.19	20.96	21.42
		25	12	21.02	20.69	20.30
		25	25	21.03	21.46	21.58
		50	0	20.76	21.37	21.04
	64-QAM	1	0	21.24	21.13	20.71
		1	24	21.47	21.81	21.59
		1	49	20.39	21.57	21.04
		25	0	21.33	21.43	21.39
		25	12	21.34	21.19	20.94
		25	25	21.29	21.28	21.02
		50	0	21.00	21.14	21.66
15	QPSK	1	0	21.01	21.50	21.65
		1	37	21.60	21.54	22.00
		1	74	21.18	20.97	21.37
		36	0	21.28	21.31	21.26
		36	20	20.91	21.22	21.45
		36	39	21.16	21.38	21.56
		75	0	21.11	21.70	21.20
	16-QAM	1	0	20.98	21.05	20.96
		1	37	21.31	21.85	21.56
		1	74	20.90	20.79	20.90
		36	0	21.41	21.20	21.73
		36	20	21.30	21.38	21.46
		36	39	20.99	21.28	21.51
		75	0	21.17	21.26	21.59
	64-QAM	1	0	20.89	21.43	21.22



		1	37	21.35	21.82	21.01
		1	74	21.13	21.12	21.07
		36	0	21.44	20.93	21.27
		36	20	20.92	21.33	21.31
		36	39	21.08	21.63	21.55
		75	0	21.36	21.23	21.45
20	QPSK	1	0	21.47	21.66	21.71
		1	49	21.66	22.17	22.07
		1	99	21.18	21.73	21.55
		50	0	21.52	21.87	21.80
		50	24	21.64	21.55	21.49
		50	50	21.39	21.86	21.64
		100	0	21.47	21.86	21.78
	16-QAM	1	0	21.51	21.51	21.29
		1	49	21.68	21.99	21.64
		1	99	21.19	21.58	21.15
		50	0	21.48	21.74	21.74
		50	24	21.41	21.38	21.47
		50	50	21.32	21.75	21.63
		100	0	21.44	21.79	21.72
	64-QAM	1	0	21.20	21.29	21.35
		1	49	21.01	21.23	21.22
		1	99	21.67	21.88	21.08
		50	0	21.14	21.15	20.80
		50	24	20.75	21.55	21.73
		50	50	21.07	20.70	20.88
		100	0	20.93	21.67	21.42

2.8. Radiated Spurious Emissions

2.8.1. Requirement

According to FCC section 2.1051, 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 $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm.

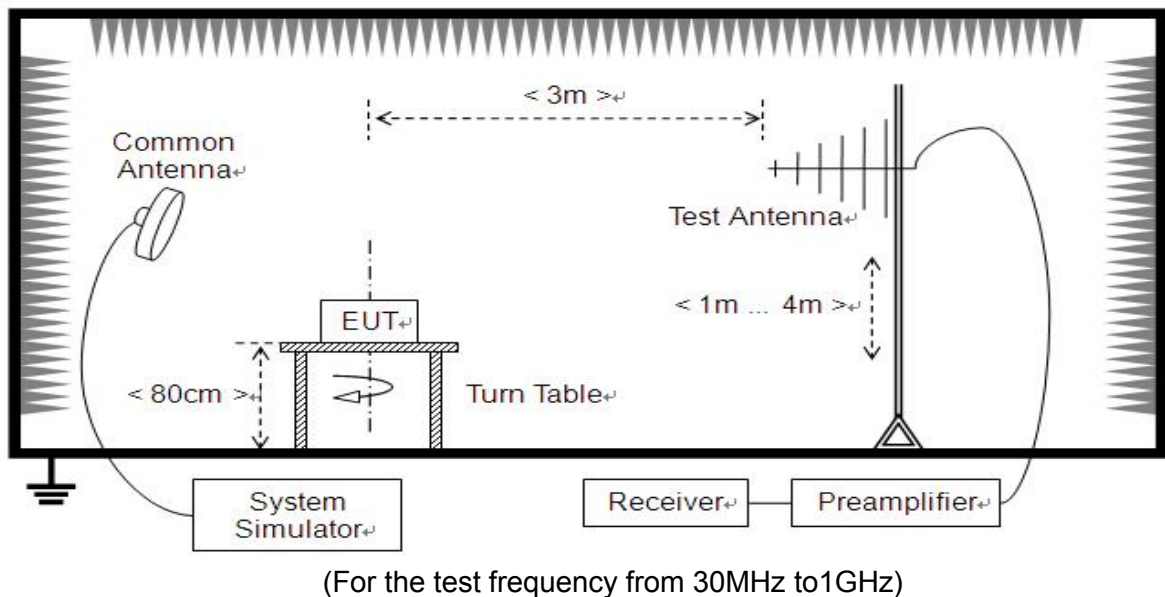
Additional requirement for LTE Band 7 / 38 / 41:

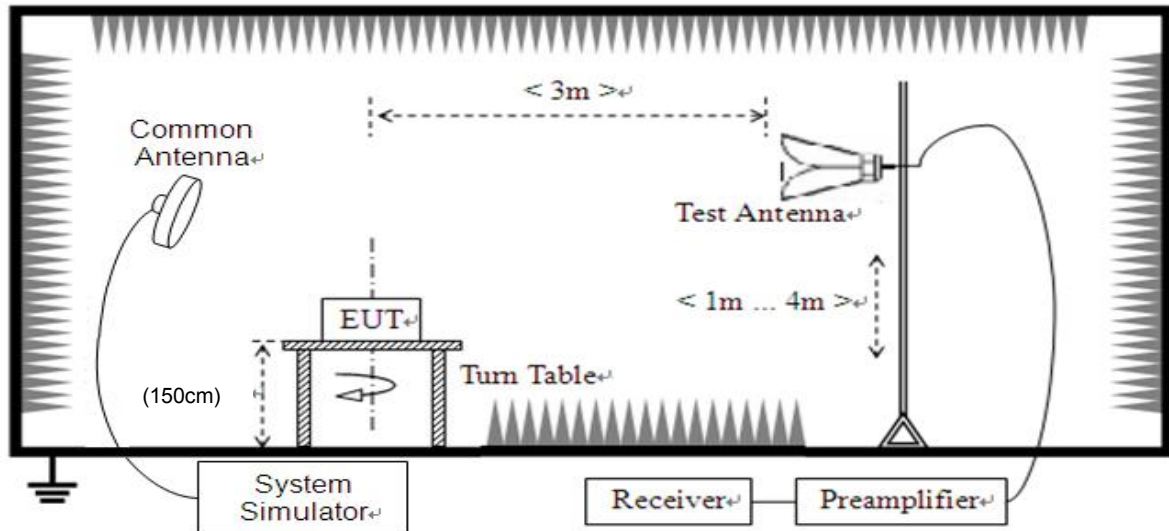
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

Additional requirement for LTE Band 30 / 40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.8.2. Test Description





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

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 procedure

KDB 971168 D01 v03r01 Section 5.8 and ANSI/TIA-603-E-2016.



2.8.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, 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.

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

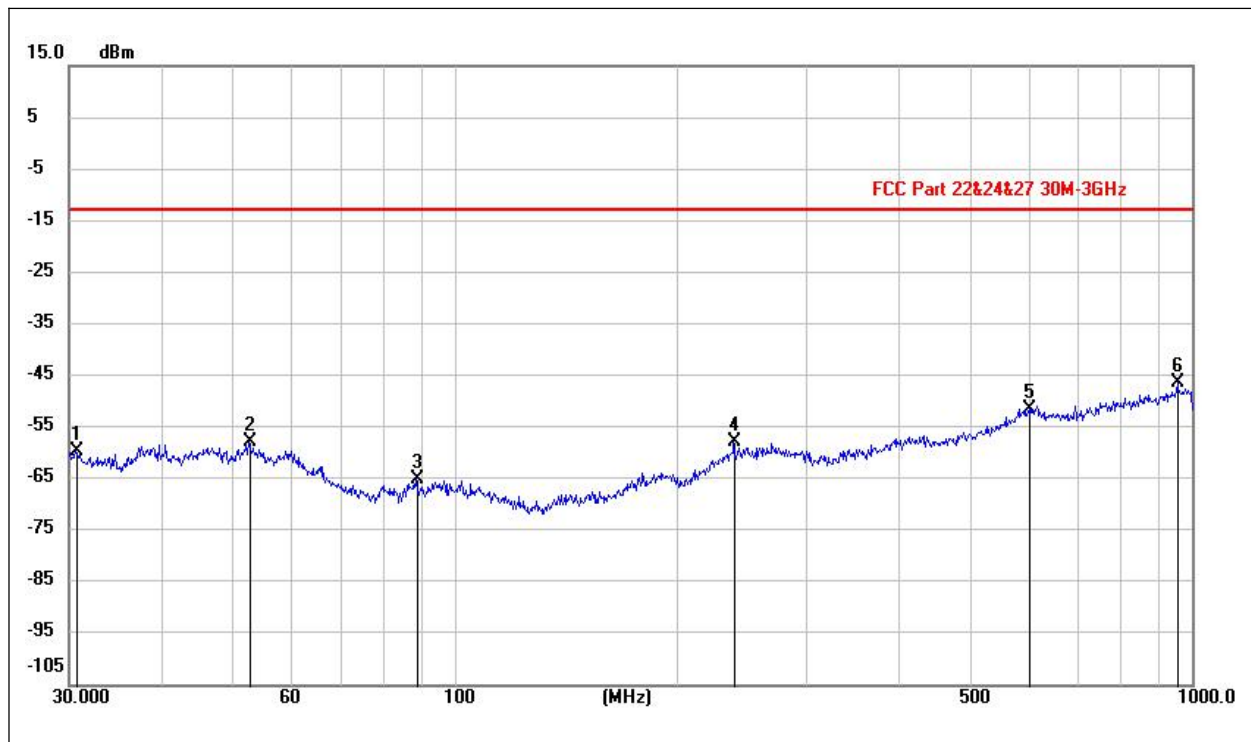
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis Y axis test condition was recorded in this test report.

Note3: All bandwidth and test channel were considered and evaluated respectively by performing full test for each band, only the worst cases were recorded in this test report.

Note4: All modulation including QPSK, 16-QAM, 64-QAM were considered and evaluated respectively by performing full test for each band, only the worst cases QPSK were recorded in this test report.

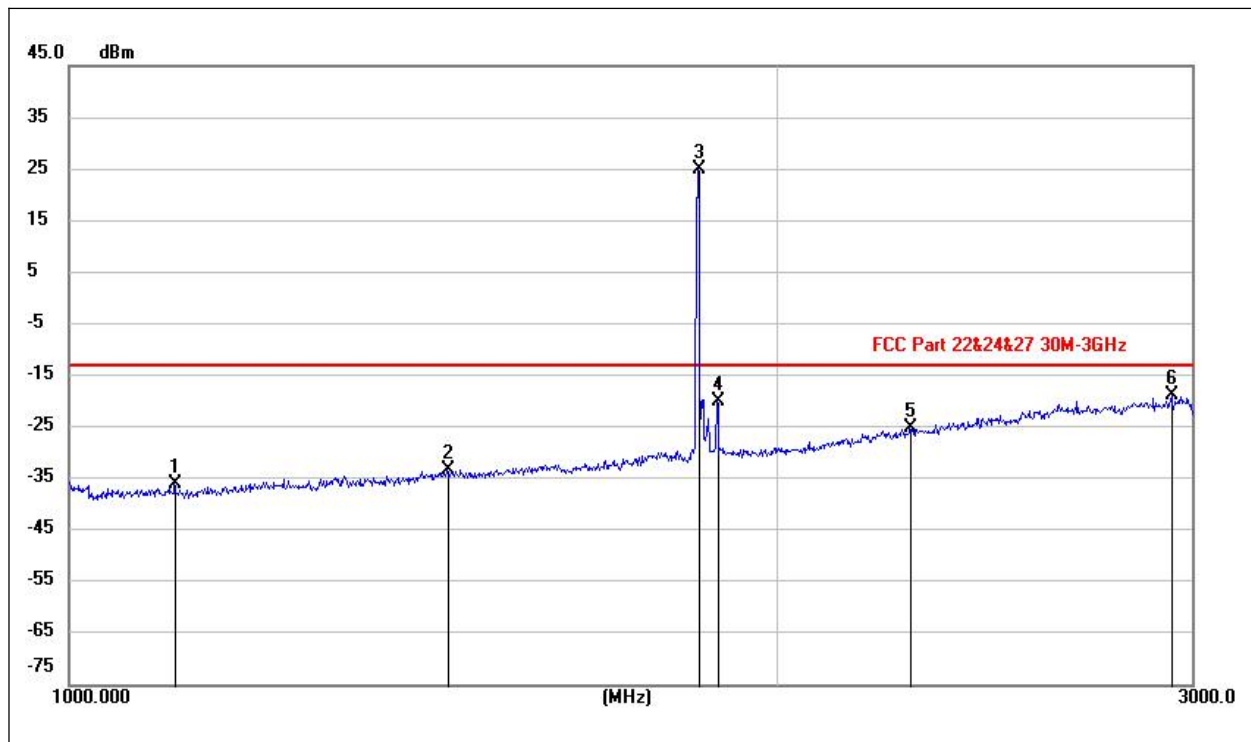
Note5: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 10dB lower than the limit was not recorded.

Note6: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.



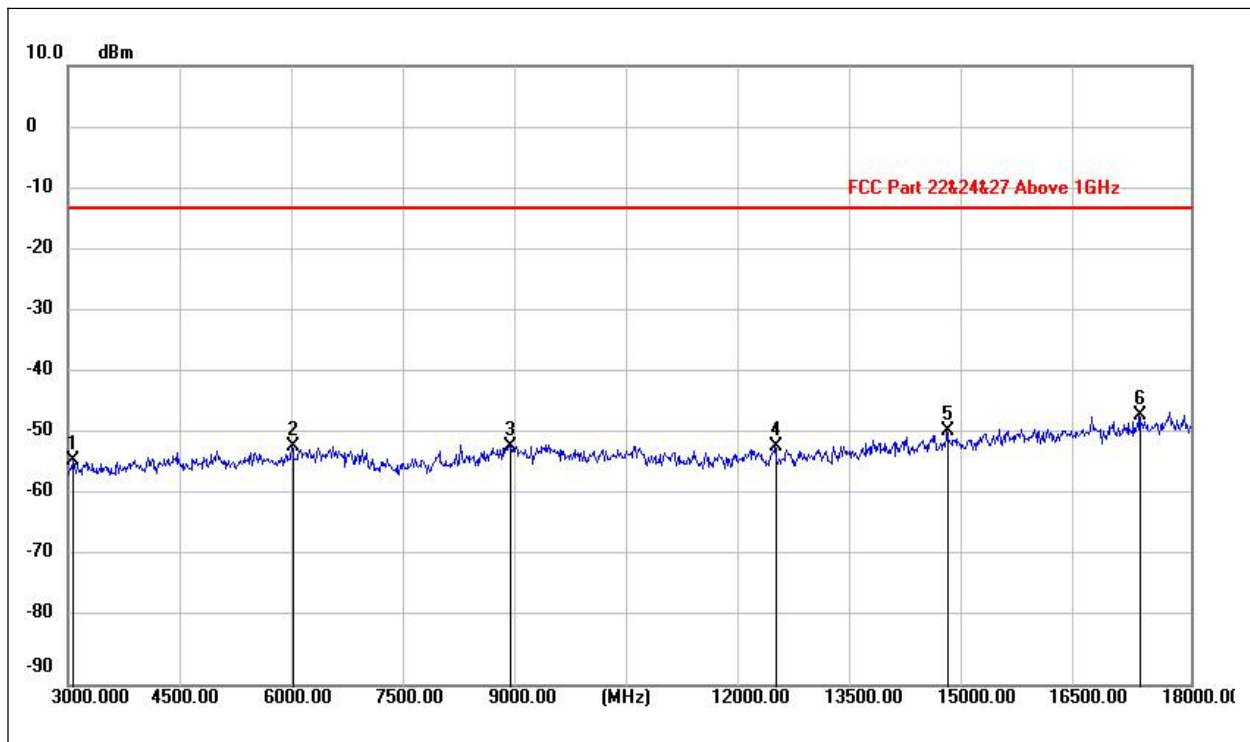
(LTE Band 2 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.7239	-59.62	-13.00	46.62	H	19.51	PASS
52.6768	-57.69	-13.00	44.69	H	23.98	PASS
88.9327	-65.08	-13.00	52.08	H	22.16	PASS
239.7771	-57.85	-13.00	44.85	H	23.47	PASS
602.9046	-51.38	-13.00	38.38	H	24.76	PASS
955.7732	-46.24	-13.00	33.24	H	34.56	PASS



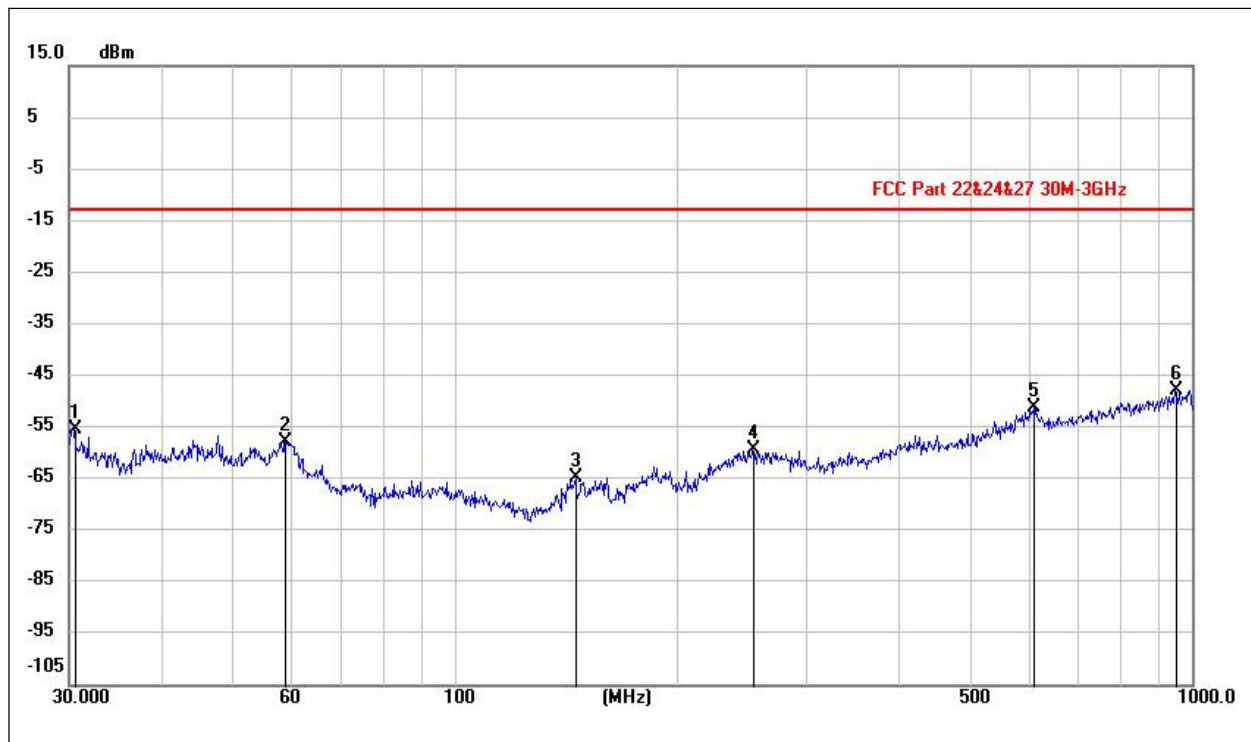
(LTE Band 2 _QPSK _ Low Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1109.887	-36.04	-13.00	23.04	H	40.03	PASS
1448.708	-33.24	-13.00	20.24	H	43.38	PASS
1851.289	24.86	N/A	N/A	H	46.43	N/A
1886.707	-19.90	-13.00	6.90	H	47.02	PASS
2279.382	-25.24	-13.00	12.24	H	50.24	PASS
2944.167	-18.89	-13.00	5.89	H	55.39	PASS



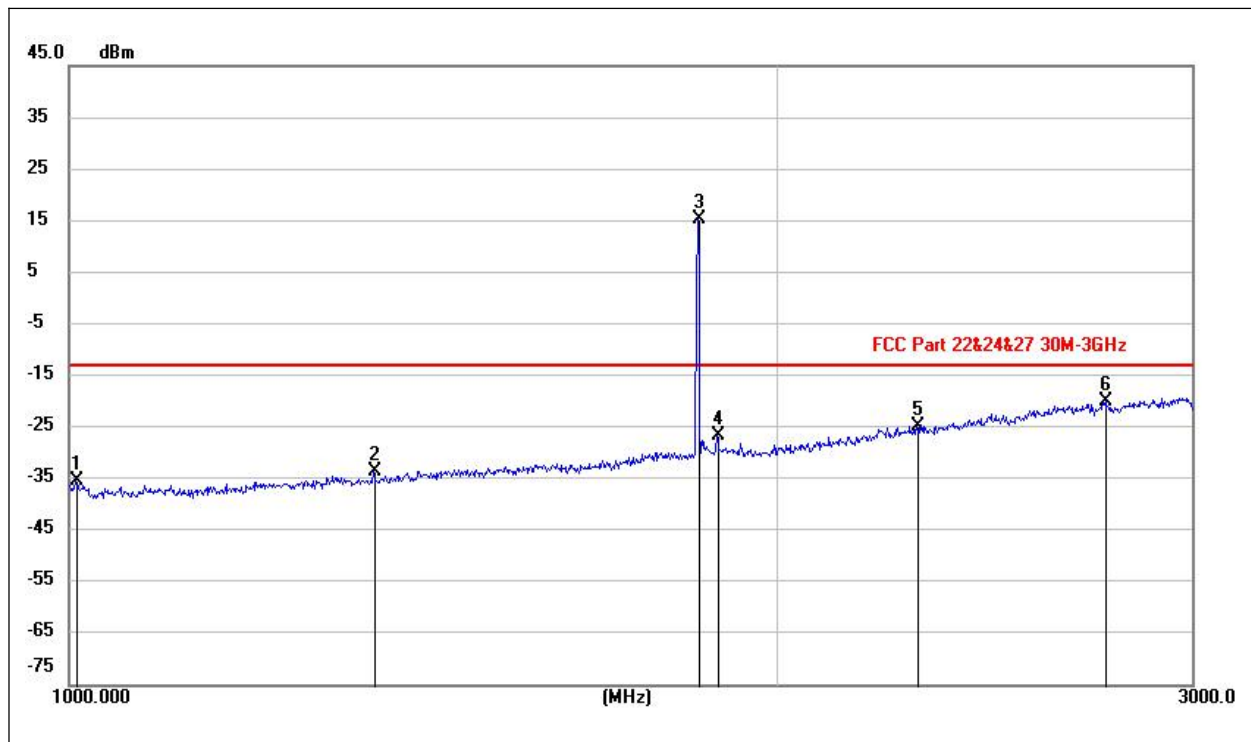
(LTE Band 2 _QPSK _ Low Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3075.000	-53.72	-13.00	40.72	H	6.75	PASS
5997.000	-51.51	-13.00	38.51	H	10.57	PASS
8901.750	-51.33	-13.00	38.33	H	14.14	PASS
12450.750	-51.53	-13.00	38.53	H	16.03	PASS
14757.750	-48.99	-13.00	35.99	H	20.21	PASS
17315.250	-46.48	-13.00	33.48	H	24.32	PASS



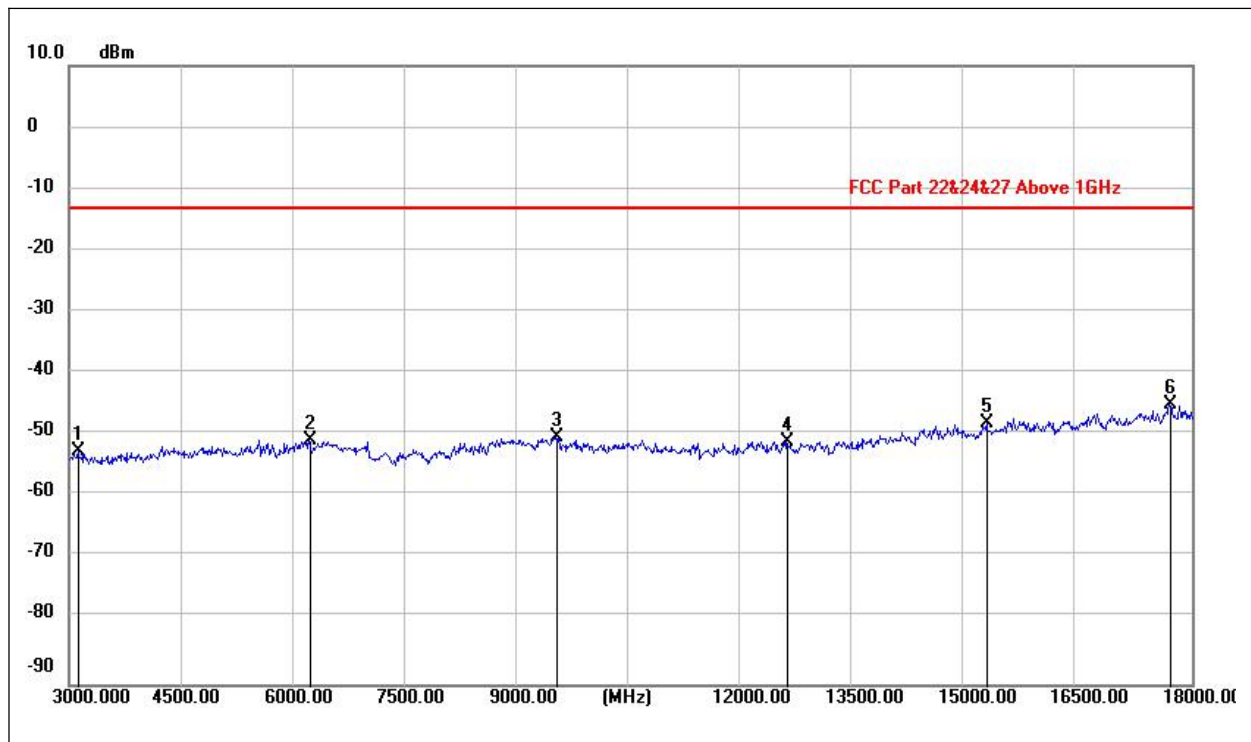
(LTE Band 2 _ QPSK _ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.5360	-55.42	-13.00	42.42	V	19.71	PASS
59.0251	-57.85	-13.00	44.85	V	23.37	PASS
146.0146	-64.65	-13.00	51.65	V	23.41	PASS
254.4159	-59.19	-13.00	46.19	V	25.21	PASS
611.7423	-51.23	-13.00	38.23	V	34.41	PASS
950.9259	-47.85	-13.00	34.85	V	38.63	PASS



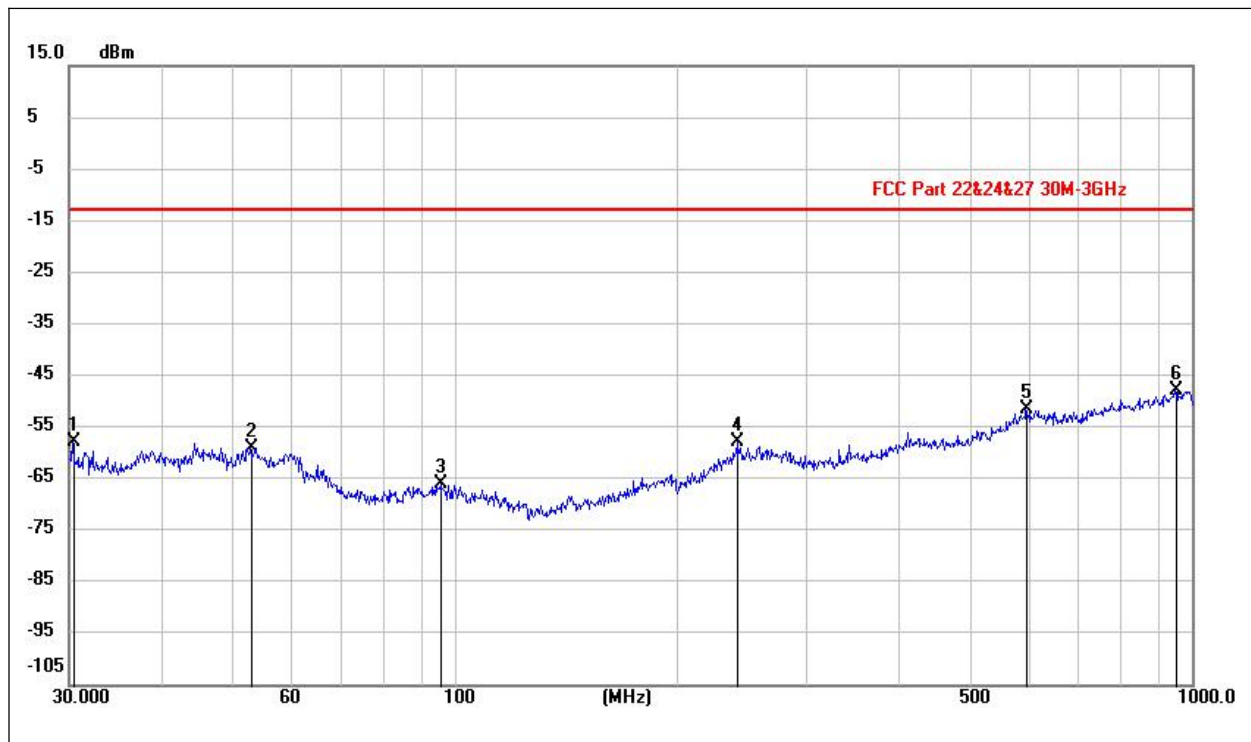
(LTE Band 2 _ QPSK _ Low Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1007.554	-35.38	-13.00	22.38	V	38.70	PASS
1346.938	-33.52	-13.00	20.52	V	41.93	PASS
1851.085	15.44	N/A	N/A	V	46.29	N/A
1886.604	-26.66	-13.00	13.66	V	46.84	PASS
2293.070	-24.83	-13.00	11.83	V	50.67	PASS
2758.476	-19.86	-13.00	6.86	V	54.36	PASS



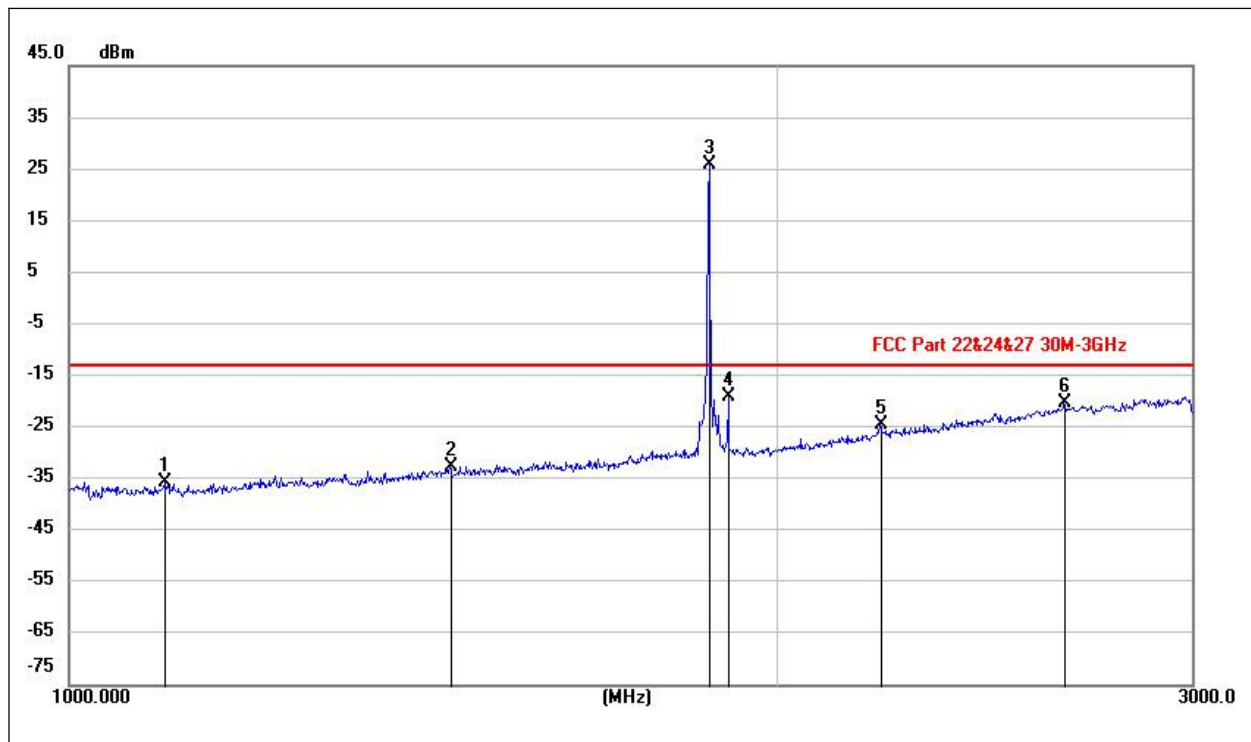
(LTE Band 2 _ QPSK _ Low Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3127.500	-52.25	-13.00	39.25	V	7.04	PASS
6212.250	-50.47	-13.00	37.47	V	11.03	PASS
9504.750	-49.97	-13.00	36.97	V	14.33	PASS
12593.250	-50.59	-13.00	37.59	V	16.08	PASS
15262.500	-47.71	-13.00	34.71	V	21.10	PASS
17703.000	-44.53	-13.00	31.53	V	24.16	PASS



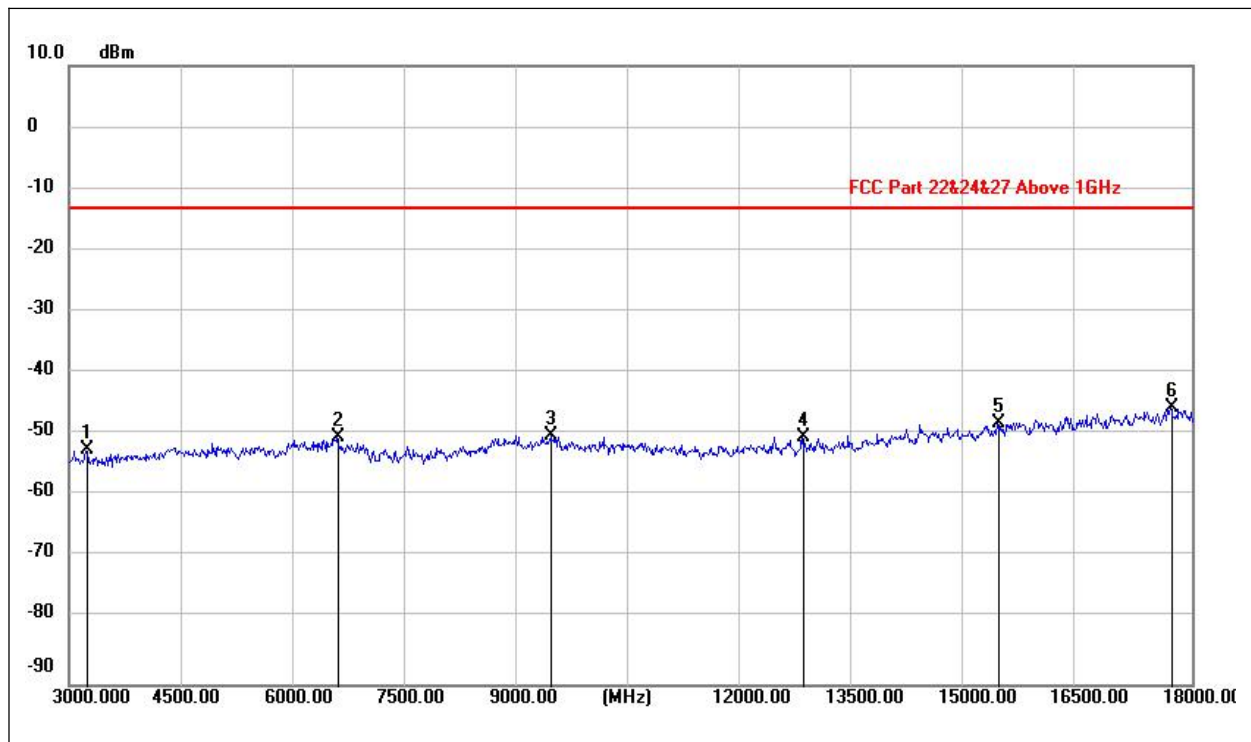
(LTE Band 2 _ QPSK_Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.3385	-57.96	-13.00	44.96	H	27.53	PASS
53.0568	-58.93	-13.00	45.93	H	30.04	PASS
95.9471	-65.83	-13.00	52.83	H	22.45	PASS
242.4402	-57.94	-13.00	44.94	H	28.58	PASS
596.3863	-51.59	-13.00	38.59	H	35.64	PASS
948.9273	-47.73	-13.00	34.73	H	38.97	PASS



(LTE Band 2 _ QPSK_Middle Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1098.424	-35.63	-13.00	22.63	H	40.22	PASS
1452.054	-32.67	-13.00	19.67	H	43.36	PASS
1871.123	25.79	N/A	N/A	H	46.71	N/A
1906.606	-18.99	-13.00	5.99	H	47.12	PASS
2212.276	-24.58	-13.00	11.58	H	50.16	PASS
2649.760	-20.32	-13.00	7.32	H	53.96	PASS



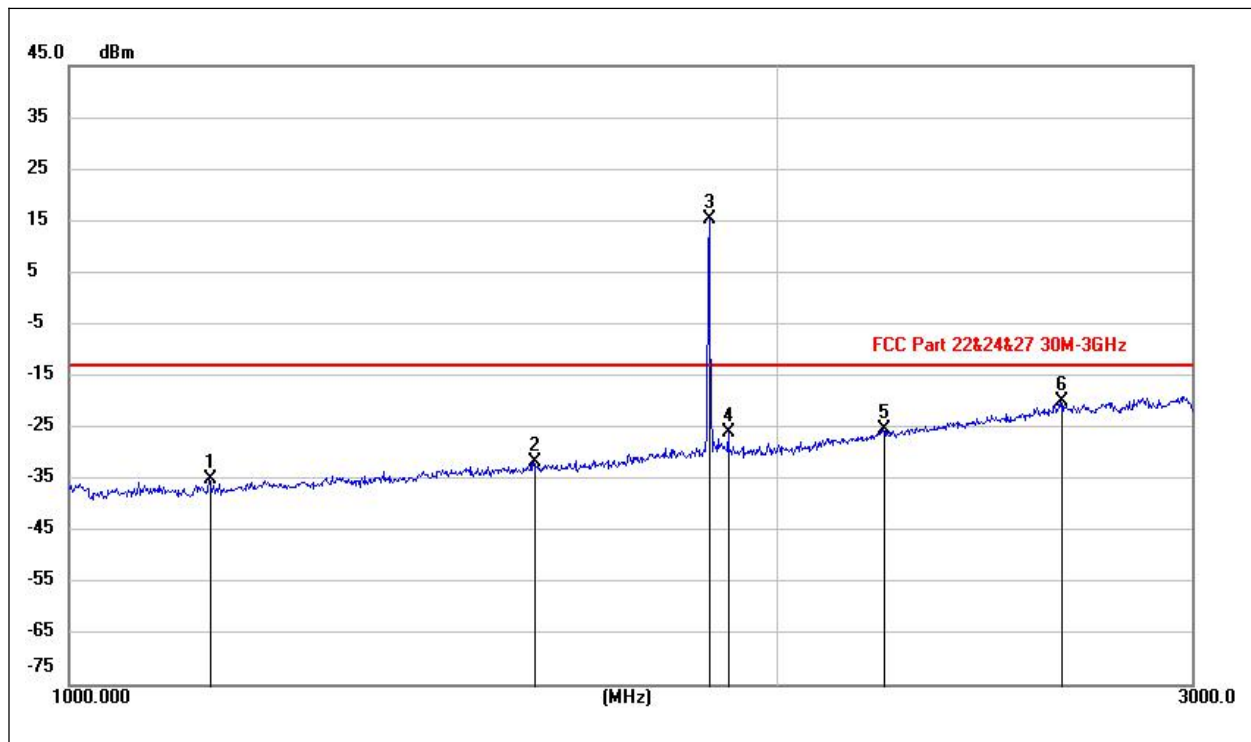
(LTE Band 2 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3225.750	-52.06	-13.00	39.06	H	6.76	PASS
6596.250	-49.82	-13.00	36.82	H	10.92	PASS
9437.250	-49.68	-13.00	36.68	H	14.40	PASS
12801.750	-50.02	-13.00	37.02	H	16.85	PASS
15413.250	-47.68	-13.00	34.68	H	21.29	PASS
17728.500	-45.11	-13.00	32.11	H	25.78	PASS



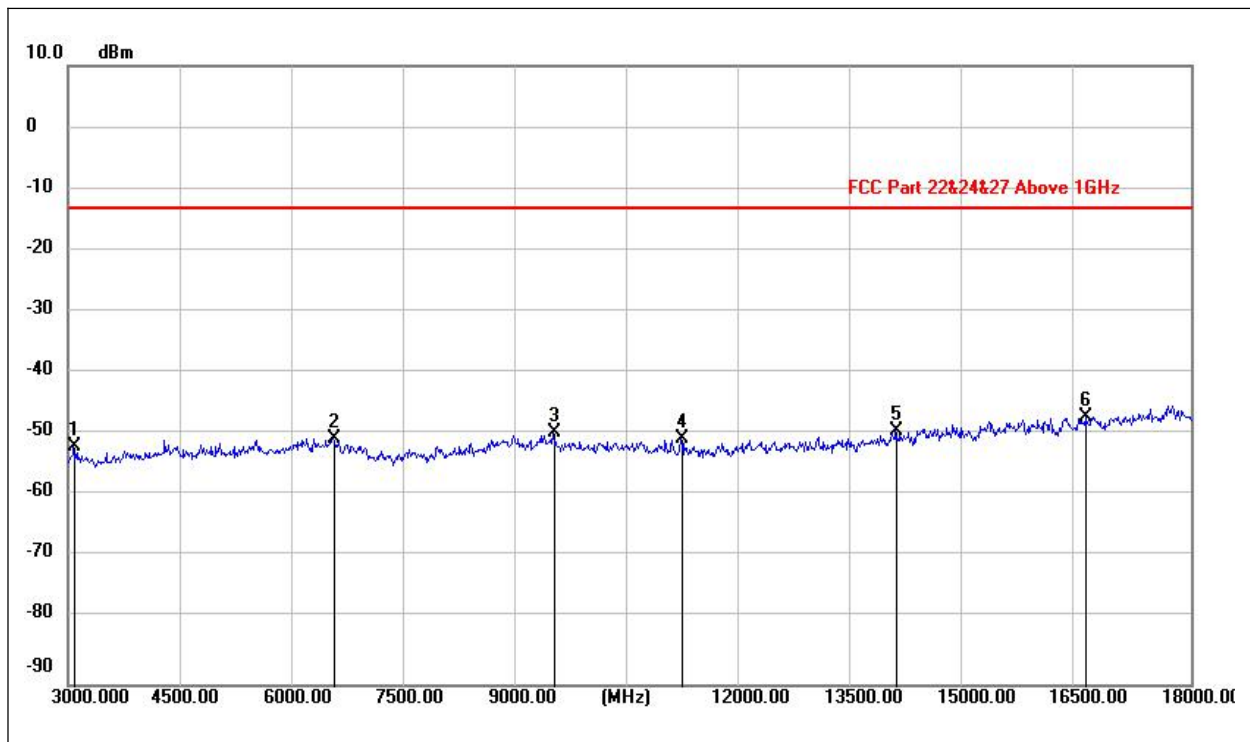
(LTE Band 2 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.0000	-54.23	-13.00	41.23	V	19.51	PASS
59.9429	-57.65	-13.00	44.65	V	24.13	PASS
146.4505	-64.64	-13.00	51.64	V	23.31	PASS
256.7911	-59.06	-13.00	46.06	V	25.38	PASS
610.0287	-50.99	-13.00	37.99	V	34.38	PASS
984.3443	-47.74	-13.00	34.74	V	39.10	PASS



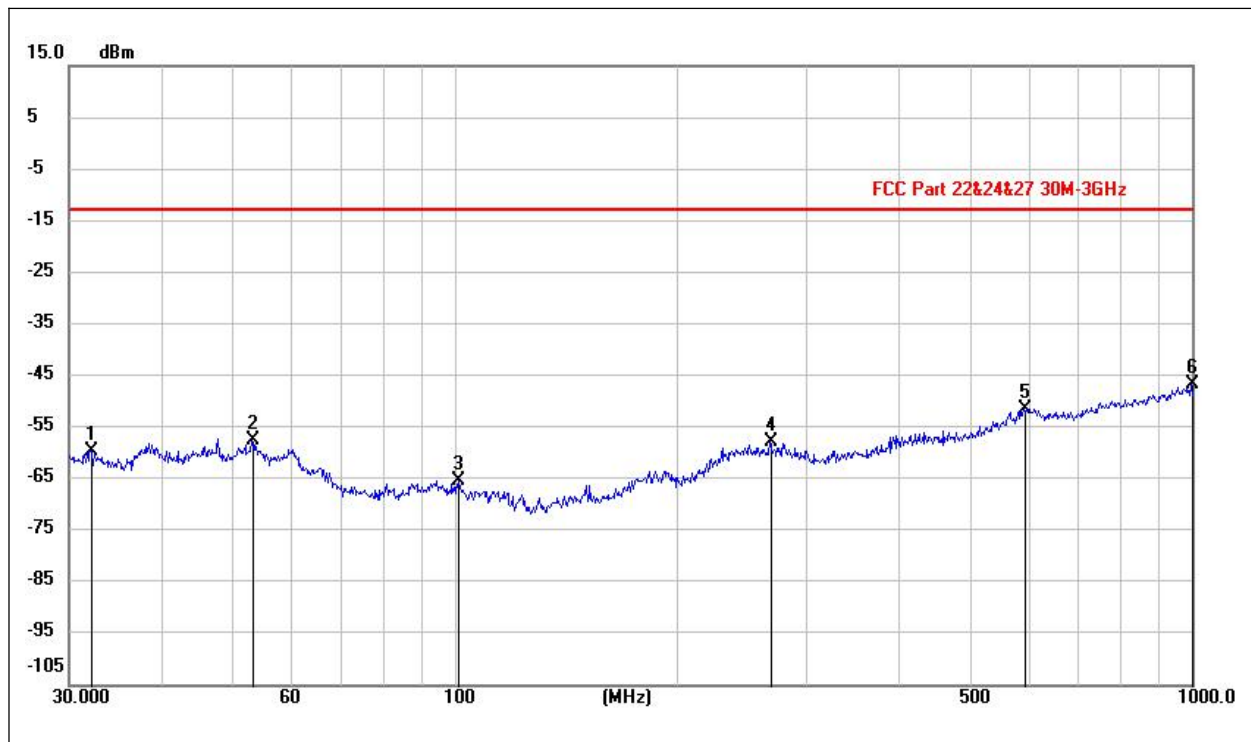
(LTE Band 2 _QPSK_ Middle Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1147.329	-35.04	-13.00	22.04	V	40.29	PASS
1577.544	-31.74	-13.00	18.74	V	44.07	PASS
1870.917	15.41	N/A	N/A	V	46.61	N/A
1906.816	-25.91	-13.00	12.91	V	47.35	PASS
2218.483	-25.34	-13.00	12.34	V	50.27	PASS
2640.316	-20.09	-13.00	7.09	V	53.80	PASS



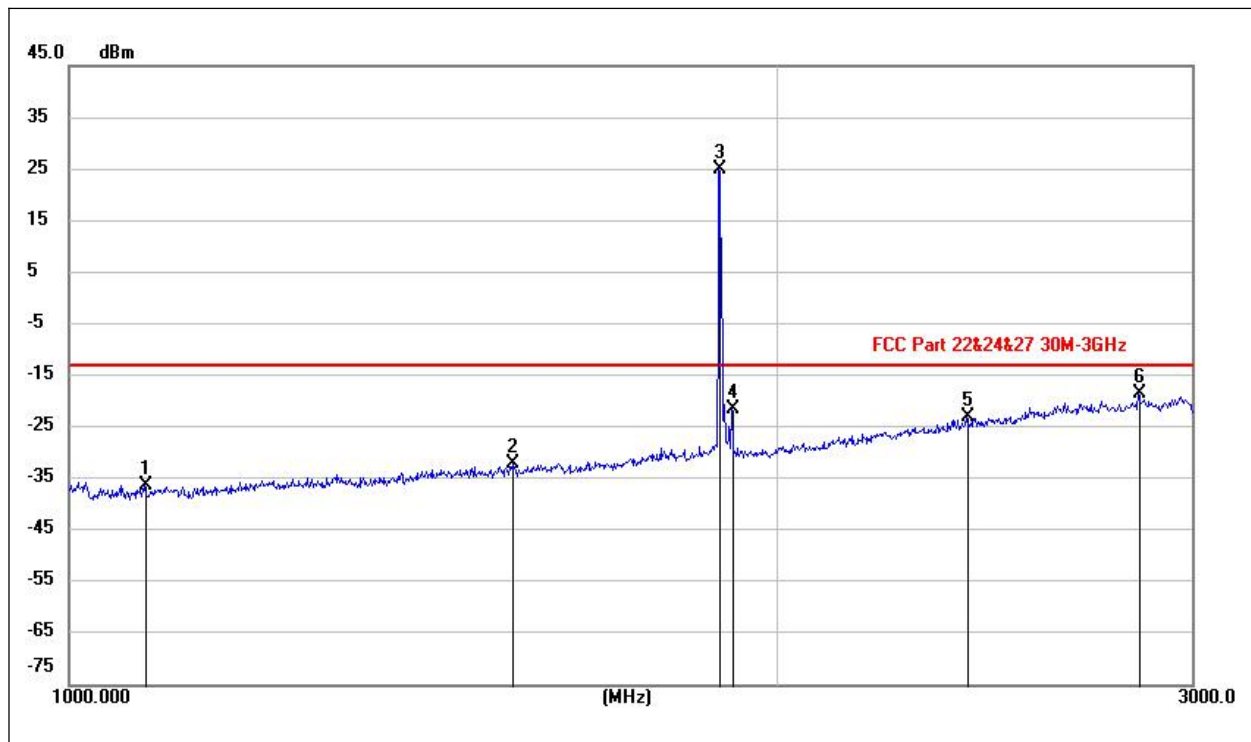
(LTE Band 2 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3078.000	-51.54	-13.00	38.54	V	6.62	PASS
6546.750	-50.13	-13.00	37.13	V	11.73	PASS
9481.500	-49.19	-13.00	36.19	V	14.34	PASS
11193.750	-50.07	-13.00	37.07	V	14.51	PASS
14056.500	-48.90	-13.00	35.90	V	19.24	PASS
16600.500	-46.55	-13.00	33.55	V	22.54	PASS



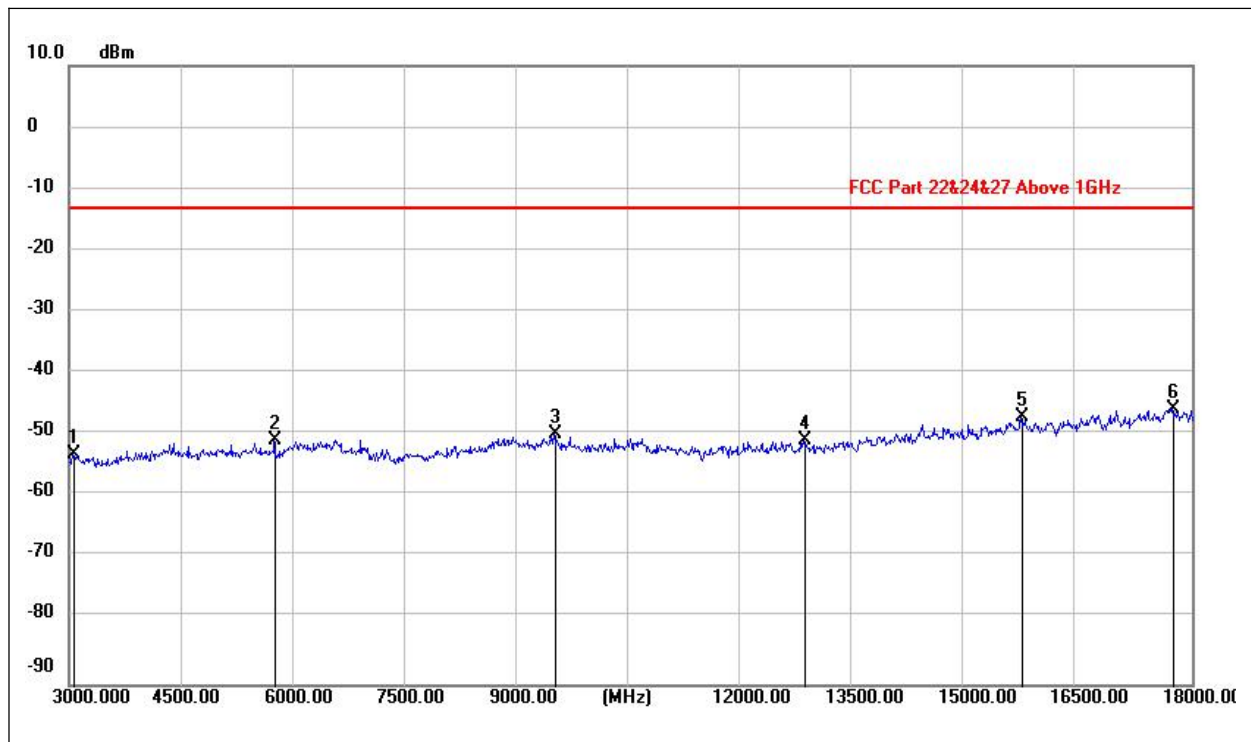
(LTE Band 2 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
32.1175	-59.52	-13.00	46.52	H	27.42	PASS
53.1686	-57.45	-13.00	44.45	H	30.03	PASS
101.2885	-65.39	-13.00	52.39	H	22.35	PASS
267.8271	-57.81	-13.00	44.81	H	29.07	PASS
592.8417	-51.38	-13.00	38.38	H	35.41	PASS
997.7233	-46.69	-13.00	33.69	H	38.80	PASS



(LTE Band 2 _QPSK_ High Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1076.384	-36.26	-13.00	23.26	H	39.86	PASS
1543.429	-32.07	-13.00	19.07	H	43.84	PASS
1891.065	25.04	N/A	N/A	H	47.13	N/A
1914.162	-21.45	-13.00	8.45	H	46.88	PASS
2407.431	-22.98	-13.00	9.98	H	51.33	PASS
2847.150	-18.46	-13.00	5.46	H	54.56	PASS



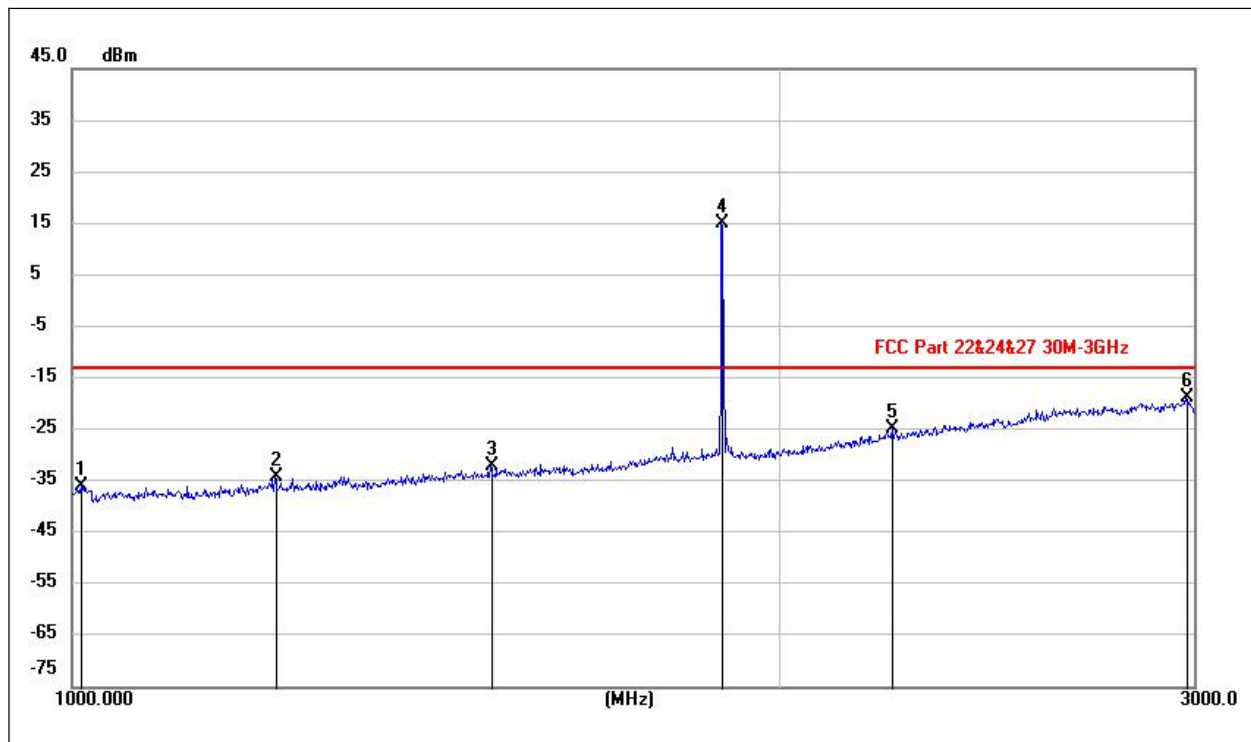
(LTE Band 2 _QPSK_ High Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3046.500	-52.61	-13.00	39.61	H	6.96	PASS
5758.500	-50.51	-13.00	37.51	H	9.93	PASS
9488.250	-49.35	-13.00	36.35	H	14.10	PASS
12814.500	-50.49	-13.00	37.49	H	16.77	PASS
15733.500	-46.59	-13.00	33.59	H	22.44	PASS
17748.000	-45.42	-13.00	32.42	H	26.19	PASS



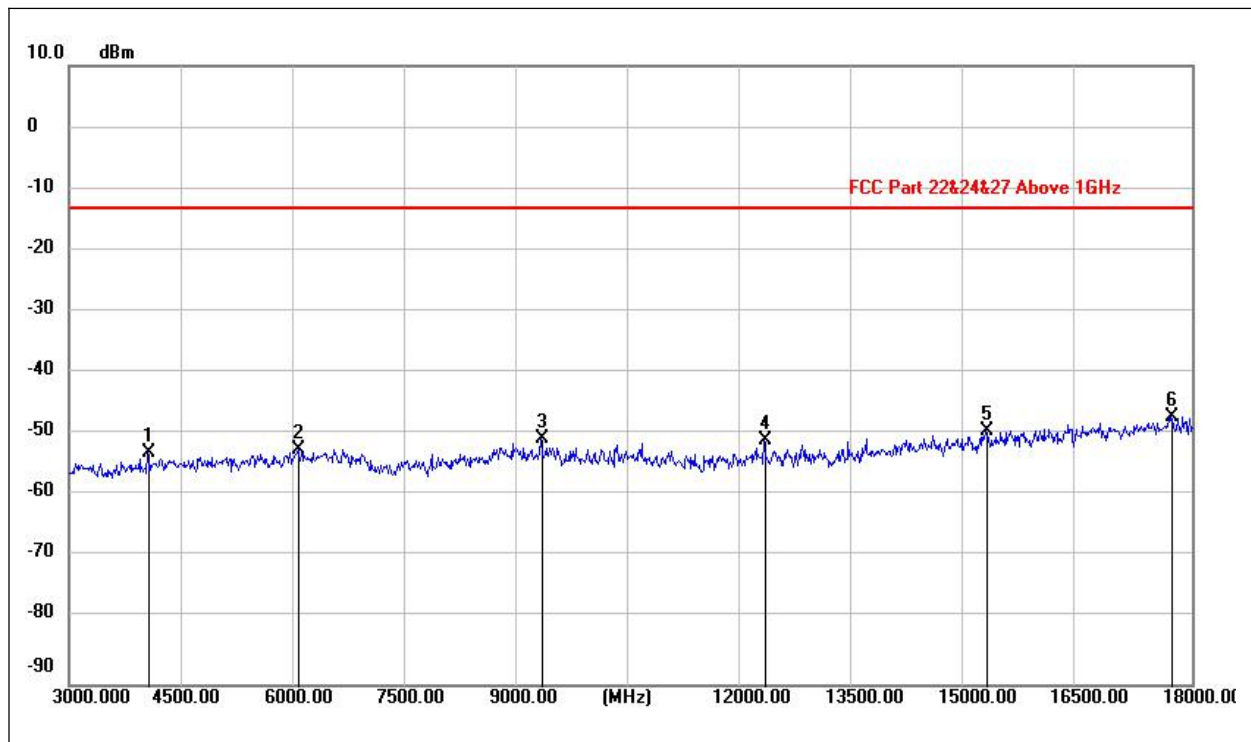
(LTE Band 2 _QPSK_ High Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.3226	-54.52	-13.00	41.52	V	19.62	PASS
59.6389	-56.31	-13.00	43.31	V	23.97	PASS
148.2850	-64.70	-13.00	51.70	V	22.87	PASS
252.5493	-58.00	-13.00	45.00	V	25.25	PASS
594.0904	-51.29	-13.00	38.29	V	34.52	PASS
987.4557	-47.17	-13.00	34.17	V	39.08	PASS



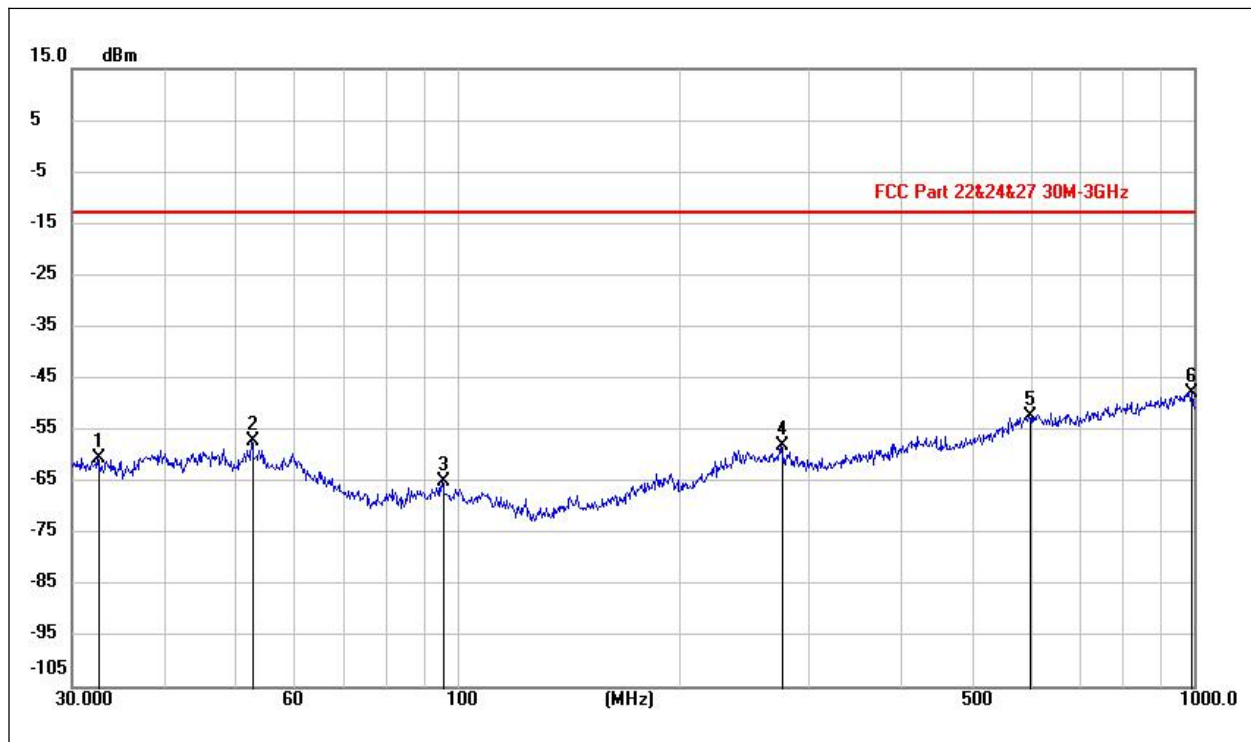
(LTE Band 2 _QPSK_ High Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1009.715	-35.90	-13.00	22.90	V	38.54	PASS
1220.601	-34.19	-13.00	21.19	V	41.25	PASS
1507.400	-32.03	-13.00	19.03	V	43.70	PASS
1891.065	14.93	N/A	N/A	V	46.95	N/A
2233.768	-24.82	-13.00	11.82	V	49.82	PASS
2977.508	-18.73	-13.00	5.73	V	55.77	PASS



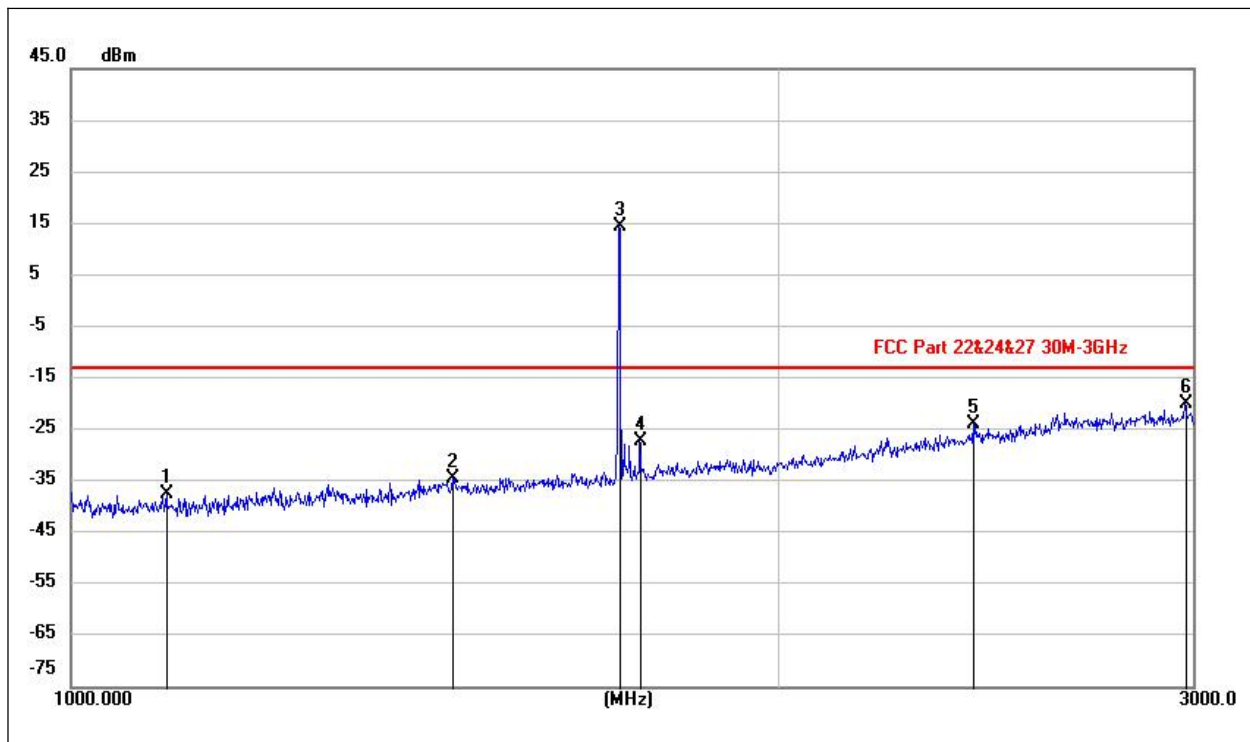
(LTE Band 2 _QPSK_ High Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4051.500	-52.47	-13.00	39.47	V	8.12	PASS
6070.500	-51.85	-13.00	38.85	V	11.25	PASS
9313.500	-50.16	-13.00	37.16	V	14.36	PASS
12291.750	-50.39	-13.00	37.39	V	15.55	PASS
15247.500	-49.02	-13.00	36.02	V	21.09	PASS
17721.000	-46.69	-13.00	33.69	V	24.51	PASS



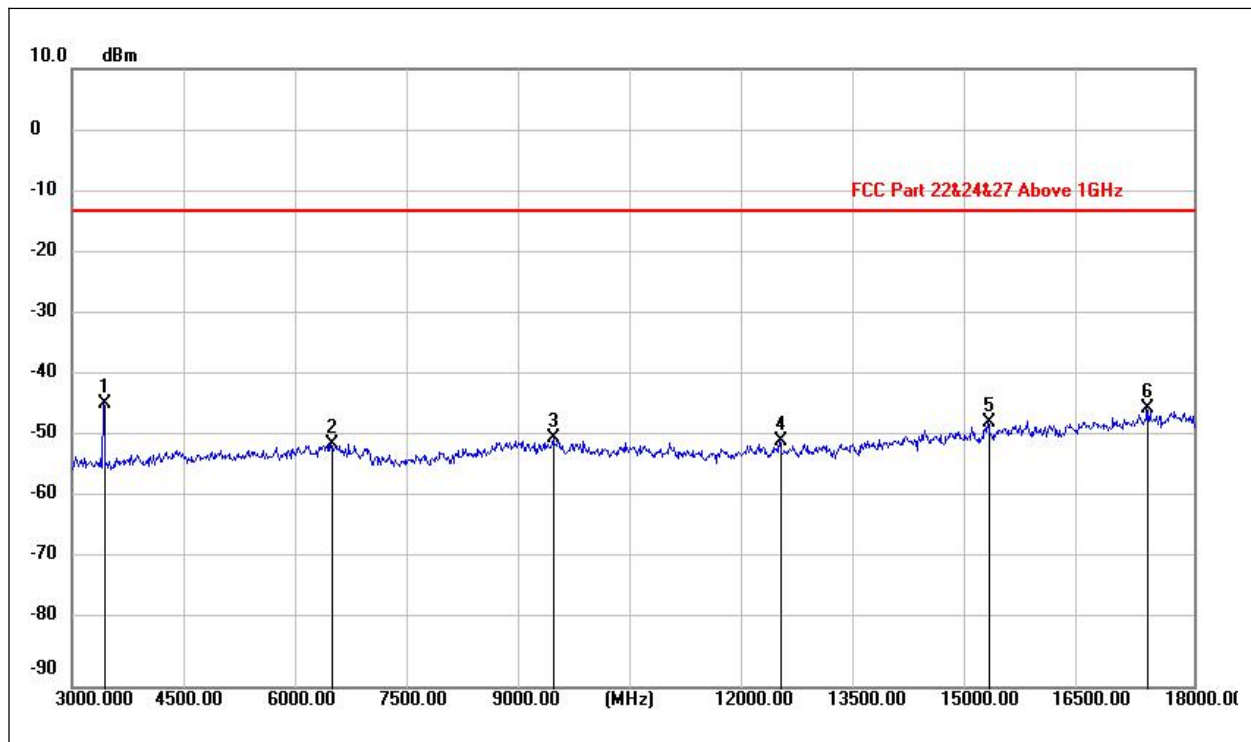
(LTE Band 4 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
32.5997	-60.64	-13.00	47.64	H	27.36	PASS
52.6214	-57.33	-13.00	44.33	H	29.98	PASS
95.4939	-64.93	-13.00	51.93	H	22.65	PASS
275.6399	-58.18	-13.00	45.18	H	29.21	PASS
598.2714	-52.35	-13.00	39.35	H	35.65	PASS
993.0114	-47.97	-13.00	34.97	H	39.06	PASS



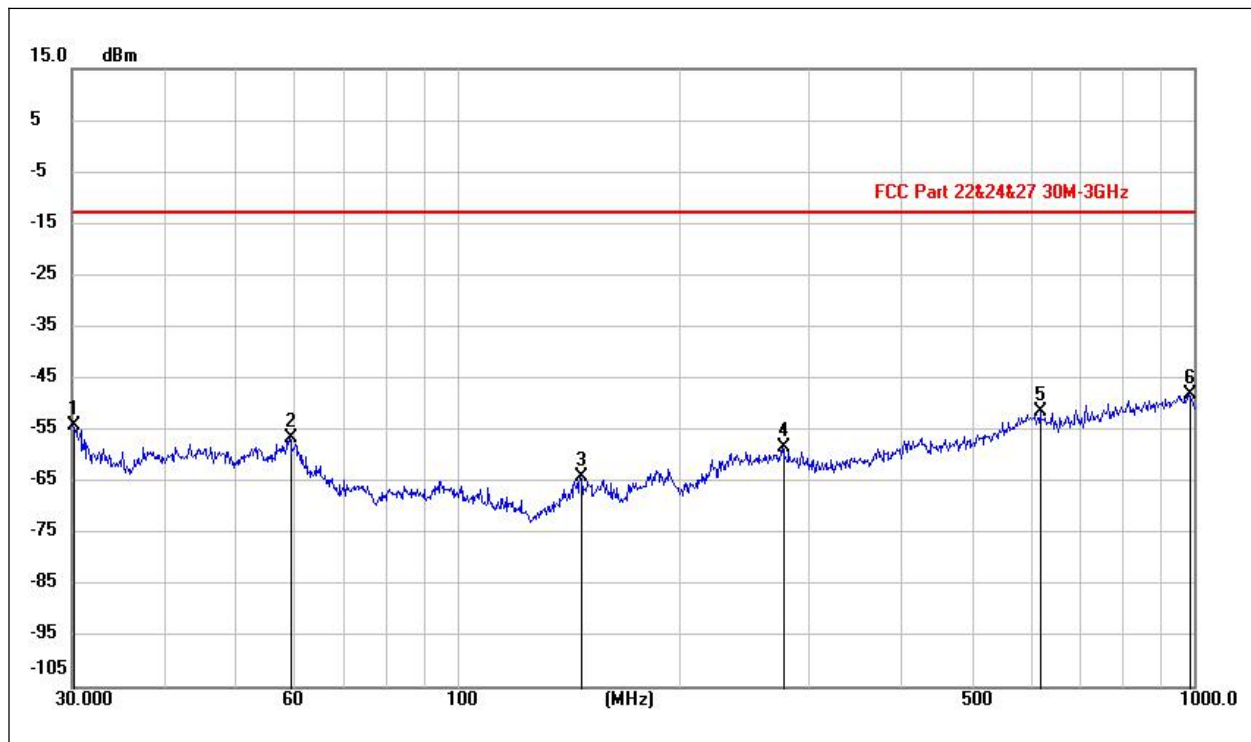
(LTE Band 4 _QPSK _ Low Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1098.967	-37.45	-13.00	24.45	H	40.23	PASS
1452.931	-34.44	-13.00	21.44	H	43.35	PASS
1711.057	14.46	N/A	N/A	H	44.58	N/A
1746.381	-27.11	-13.00	14.11	H	45.26	PASS
2420.825	-23.93	-13.00	10.93	H	51.61	PASS
2978.653	-19.93	-13.00	6.93	H	55.68	PASS



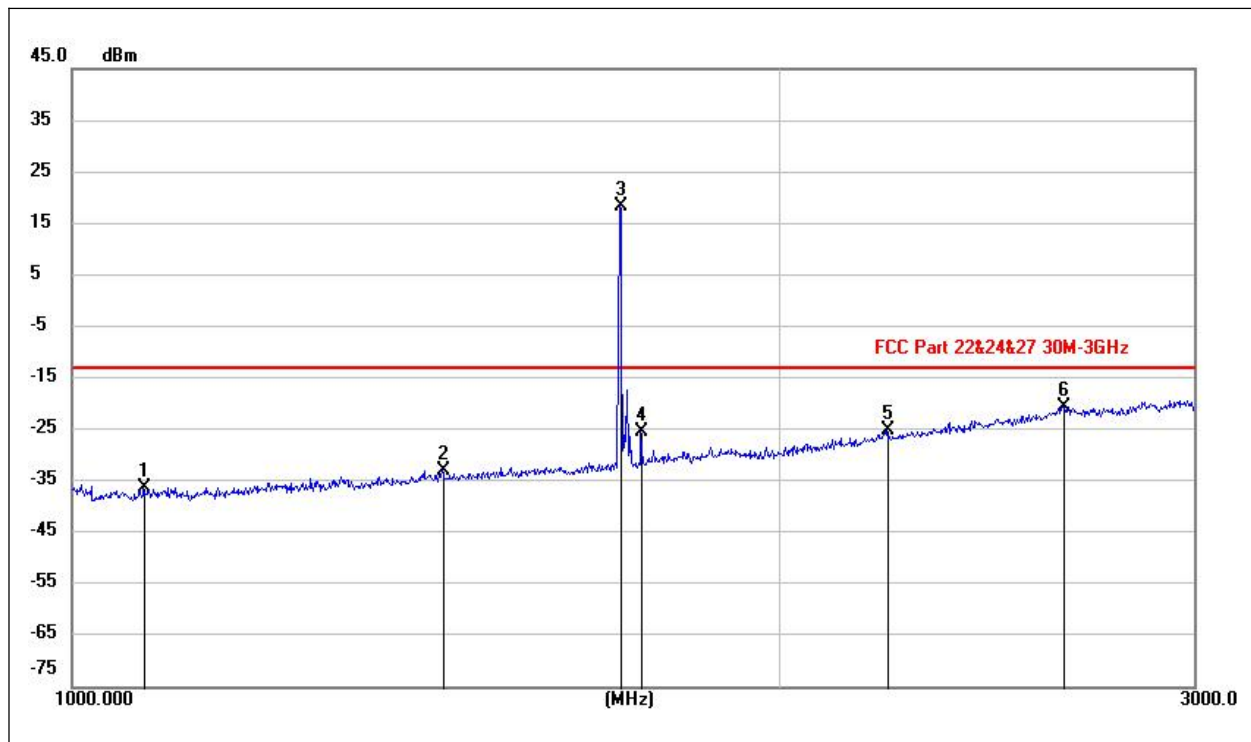
(LTE Band 4 _QPSK _ Low Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3421.500	-44.04	-13.00	31.04	H	6.79	PASS
6477.750	-50.69	-13.00	37.69	H	11.32	PASS
9435.000	-49.74	-13.00	36.74	H	14.39	PASS
12477.750	-50.20	-13.00	37.20	H	15.98	PASS
15249.000	-47.24	-13.00	34.24	H	21.01	PASS
17375.250	-44.94	-13.00	31.94	H	24.62	PASS



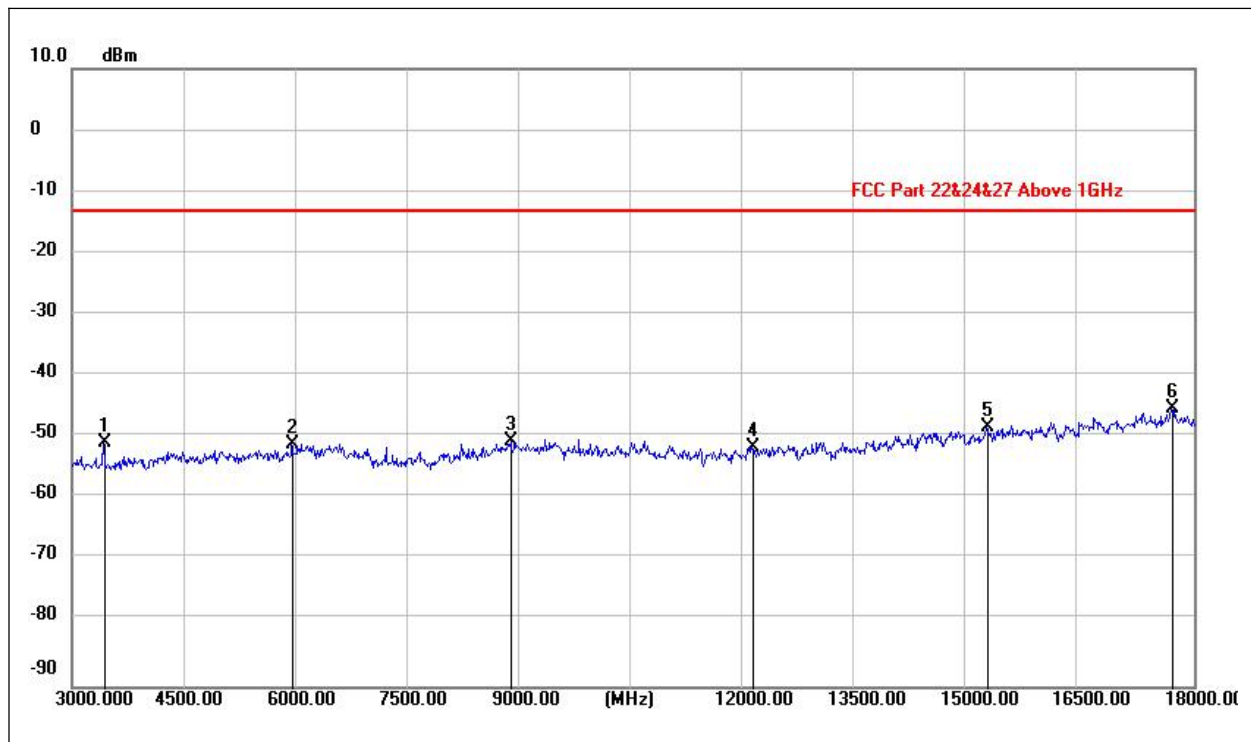
(LTE Band 4 _ QPSK _ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.1318	-54.23	-13.00	41.23	V	19.56	PASS
59.2740	-56.47	-13.00	43.47	V	23.61	PASS
147.1712	-64.18	-13.00	51.18	V	23.09	PASS
276.7051	-58.41	-13.00	45.41	V	26.59	PASS
619.6223	-51.53	-13.00	38.53	V	34.27	PASS
987.2826	-48.17	-13.00	35.17	V	39.09	PASS



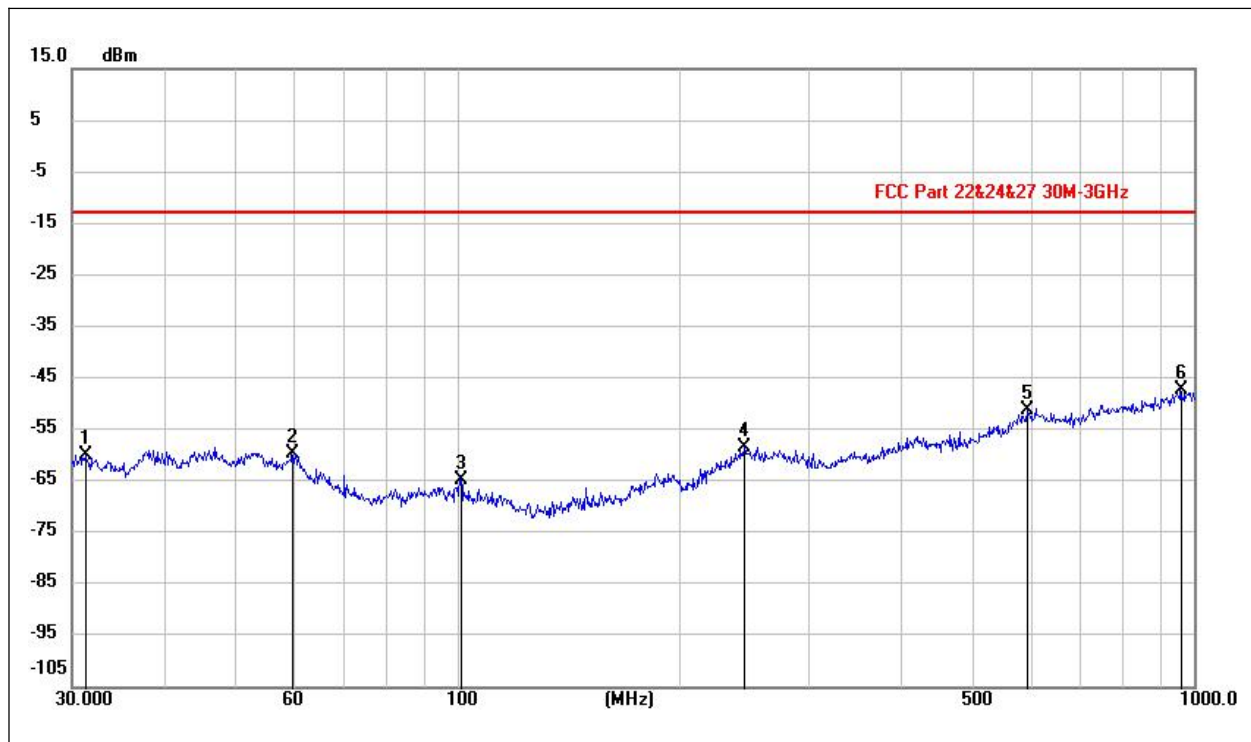
(LTE Band 4 _ QPSK _ Low Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1072.901	-36.14	-13.00	23.14	V	40.08	PASS
1438.083	-32.96	-13.00	19.96	V	42.95	PASS
1711.057	18.42	N/A	N/A	V	44.49	N/A
1746.573	-25.27	-13.00	12.27	V	45.55	PASS
2220.555	-25.05	-13.00	12.05	V	50.23	PASS
2639.156	-20.52	-13.00	7.52	V	53.80	PASS



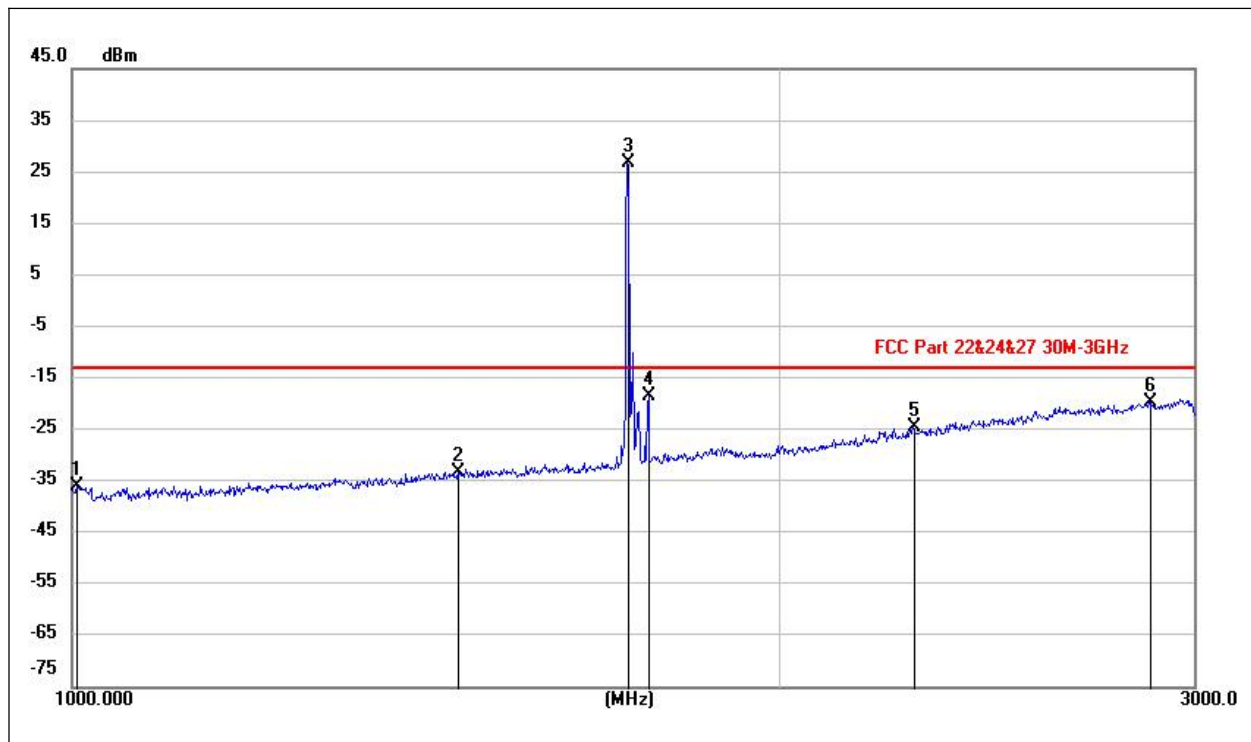
(LTE Band 4 _ QPSK _ Low Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3422.250	-50.32	-13.00	37.32	V	6.74	PASS
5941.500	-50.63	-13.00	37.63	V	10.63	PASS
8867.250	-50.09	-13.00	37.09	V	14.12	PASS
12090.750	-51.12	-13.00	38.12	V	15.41	PASS
15238.500	-47.85	-13.00	34.85	V	21.01	PASS
17708.250	-44.94	-13.00	31.94	V	24.27	PASS



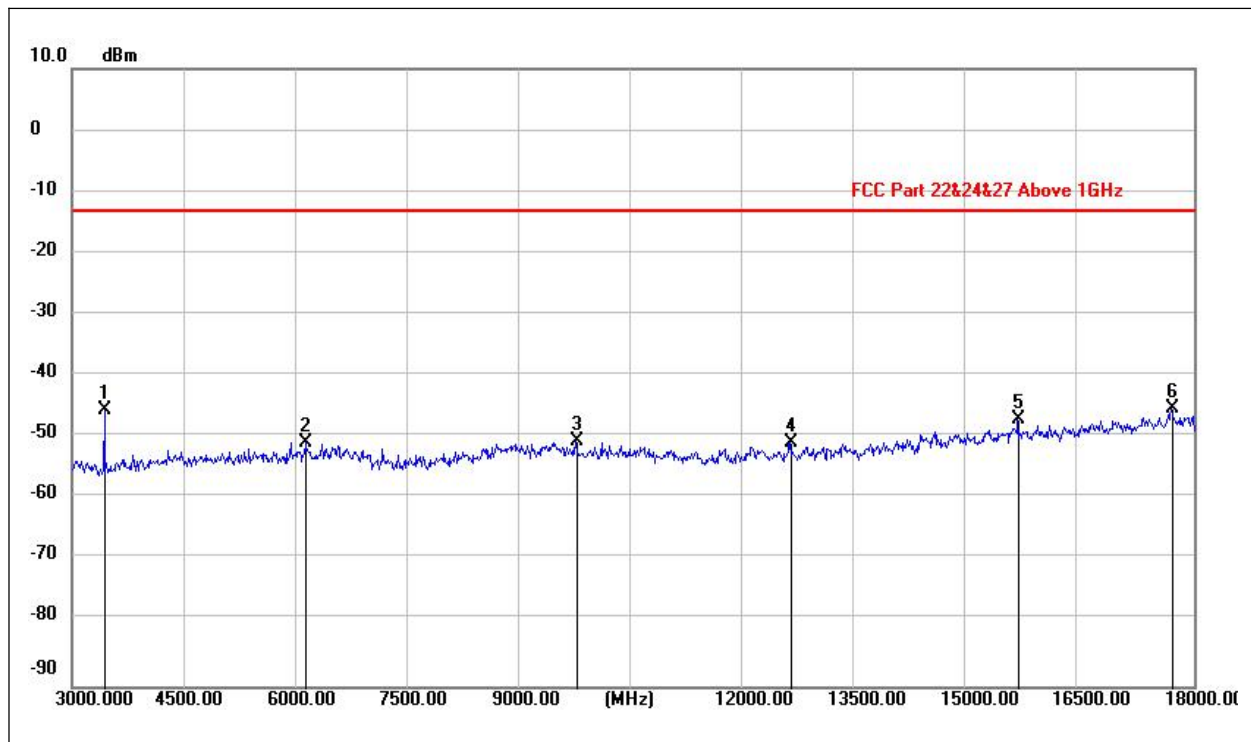
(LTE Band 4 _ QPSK_Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
31.3552	-59.86	-13.00	46.86	H	27.50	PASS
59.8169	-59.62	-13.00	46.62	H	28.88	PASS
101.2885	-64.78	-13.00	51.78	H	22.35	PASS
245.0900	-58.35	-13.00	45.35	H	29.05	PASS
594.8199	-51.32	-13.00	38.32	H	35.61	PASS
960.8137	-47.36	-13.00	34.36	H	38.74	PASS



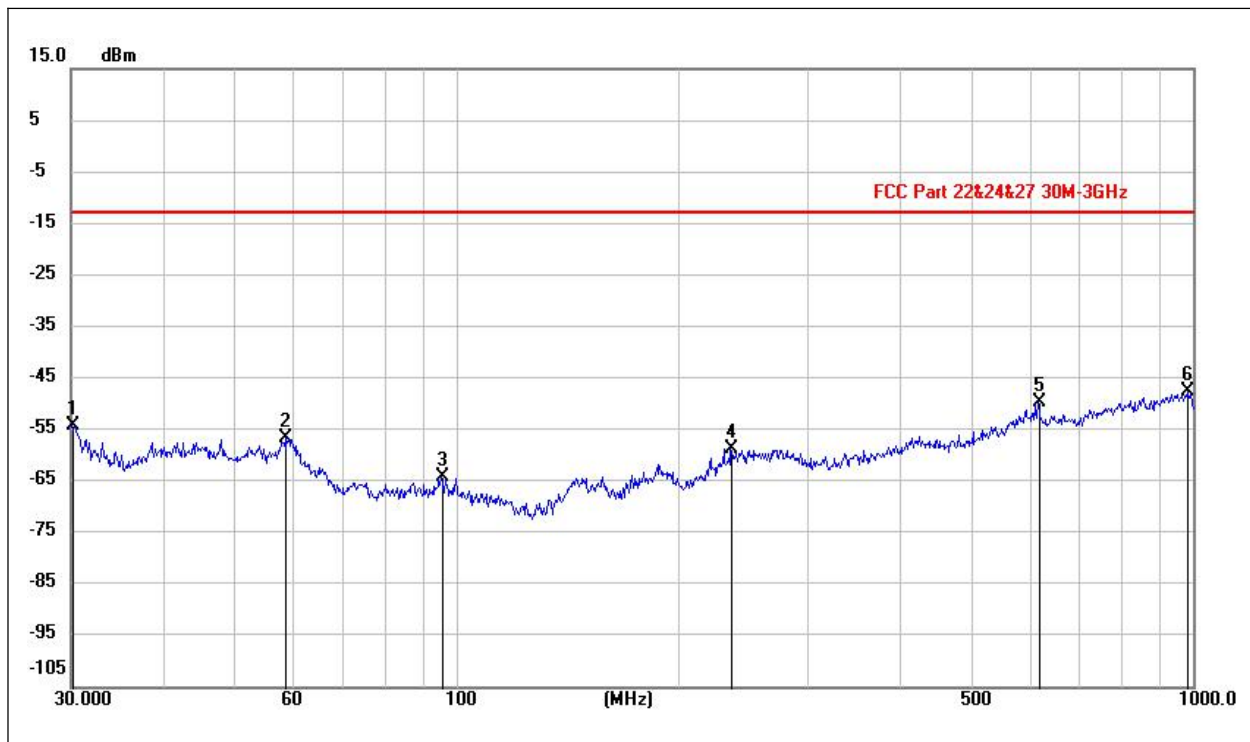
(LTE Band 4 _ QPSK_Middle Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1004.790	-36.02	-13.00	23.02	H	38.83	PASS
1460.292	-33.11	-13.00	20.11	H	43.32	PASS
1723.509	26.75	N/A	N/A	H	45.10	N/A
1759.187	-18.57	-13.00	5.57	H	45.78	PASS
2280.384	-24.62	-13.00	11.62	H	50.25	PASS
2873.704	-19.73	-13.00	6.73	H	55.10	PASS



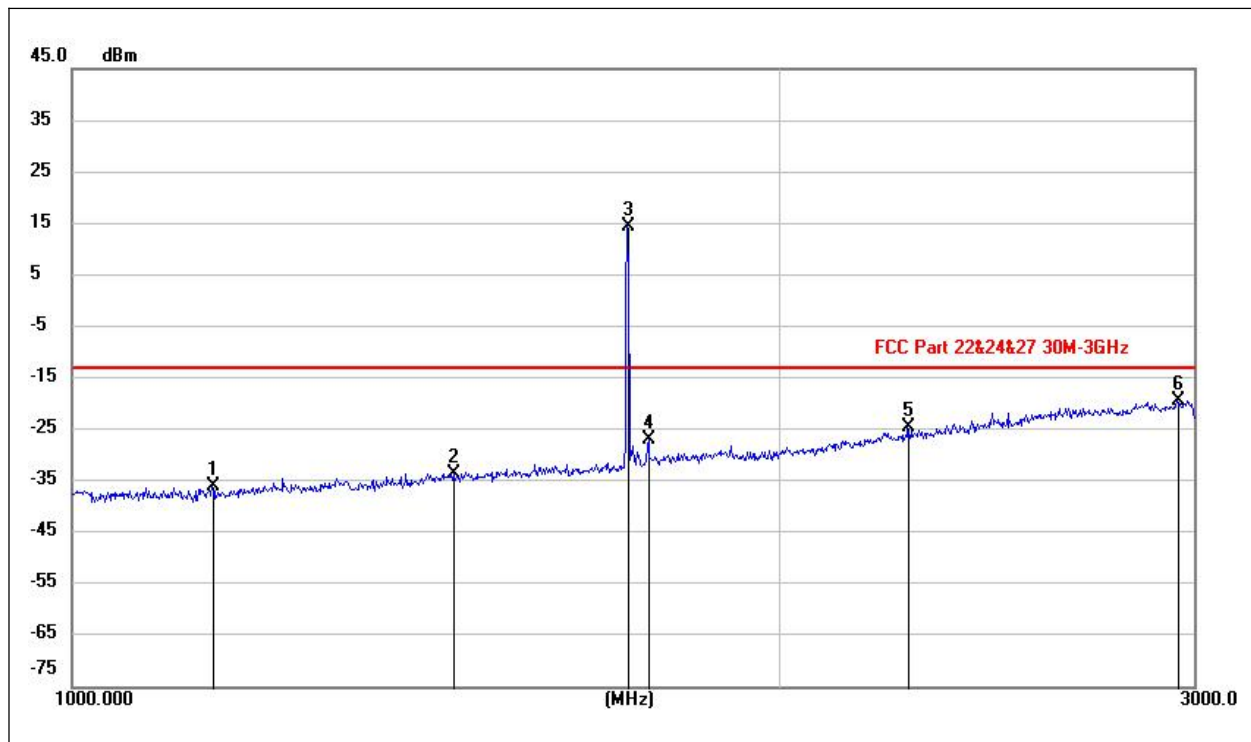
(LTE Band 4 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3447.000	-45.23	-13.00	32.23	H	6.89	PASS
6121.500	-50.42	-13.00	37.42	H	10.89	PASS
9736.500	-50.20	-13.00	37.20	H	14.45	PASS
12609.000	-50.45	-13.00	37.45	H	16.32	PASS
15654.750	-46.77	-13.00	33.77	H	21.45	PASS
17712.000	-44.78	-13.00	31.78	H	25.45	PASS



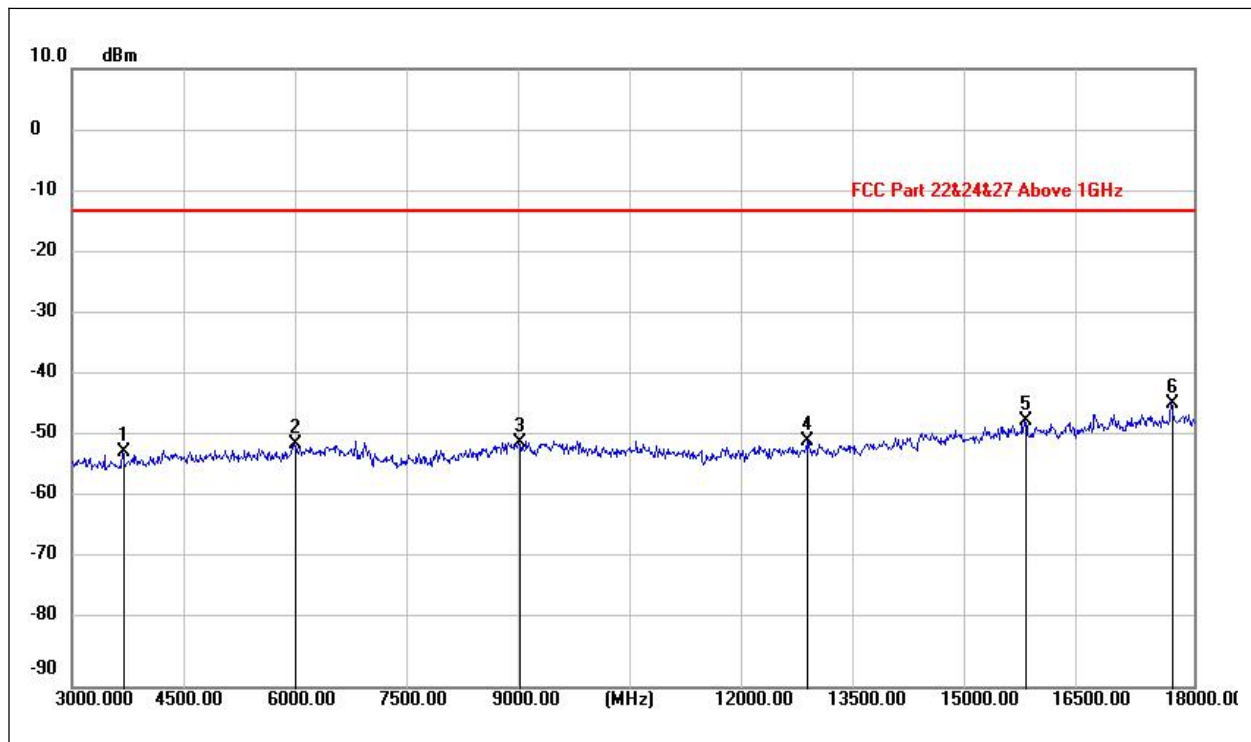
(LTE Band 4 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.1424	-54.16	-13.00	41.16	V	19.56	PASS
58.8185	-56.54	-13.00	43.54	V	23.16	PASS
95.6112	-64.18	-13.00	51.18	V	27.29	PASS
236.4788	-58.79	-13.00	45.79	V	24.71	PASS
618.1033	-49.79	-13.00	36.79	V	34.29	PASS
984.8622	-47.59	-13.00	34.59	V	39.11	PASS



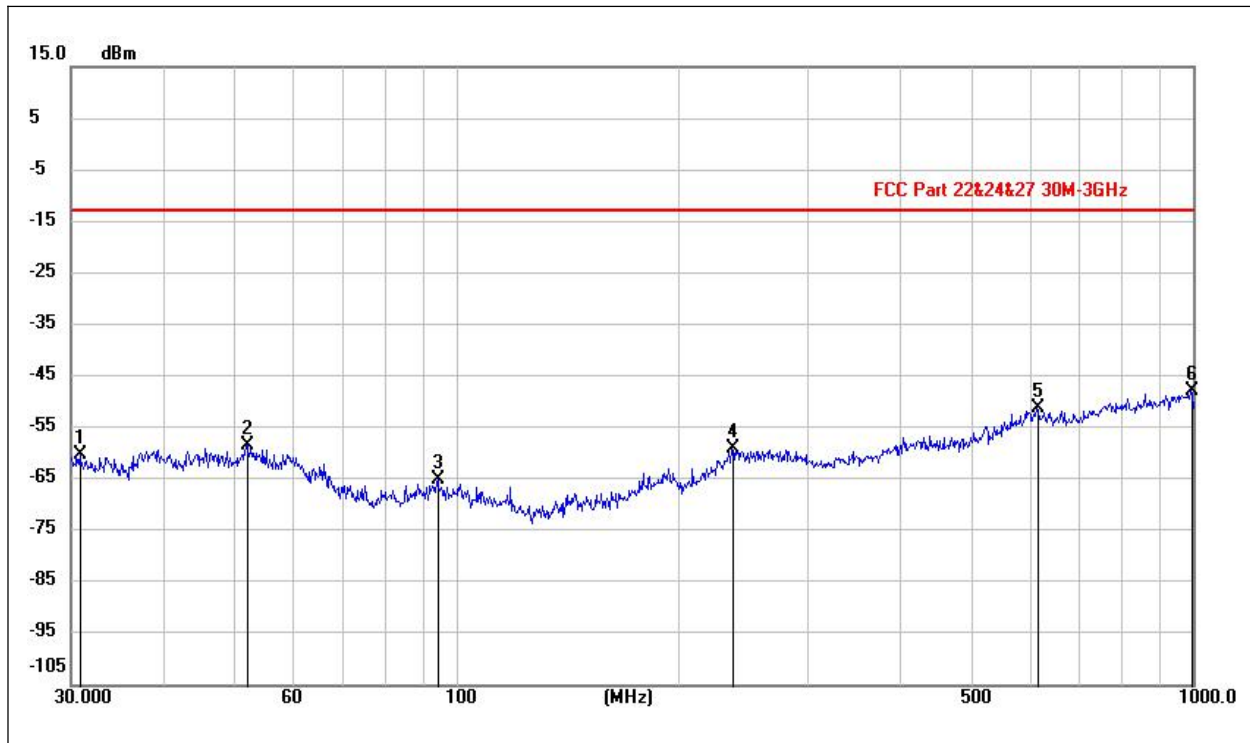
(LTE Band 4 _QPSK_ Middle Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1148.401	-36.00	-13.00	23.00	V	40.30	PASS
1454.289	-33.41	-13.00	20.41	V	43.62	PASS
1723.509	14.32	N/A	N/A	V	45.00	N/A
1759.283	-27.02	-13.00	14.02	V	45.93	PASS
2268.889	-24.54	-13.00	11.54	V	50.21	PASS
2952.913	-19.47	-13.00	6.47	V	55.77	PASS



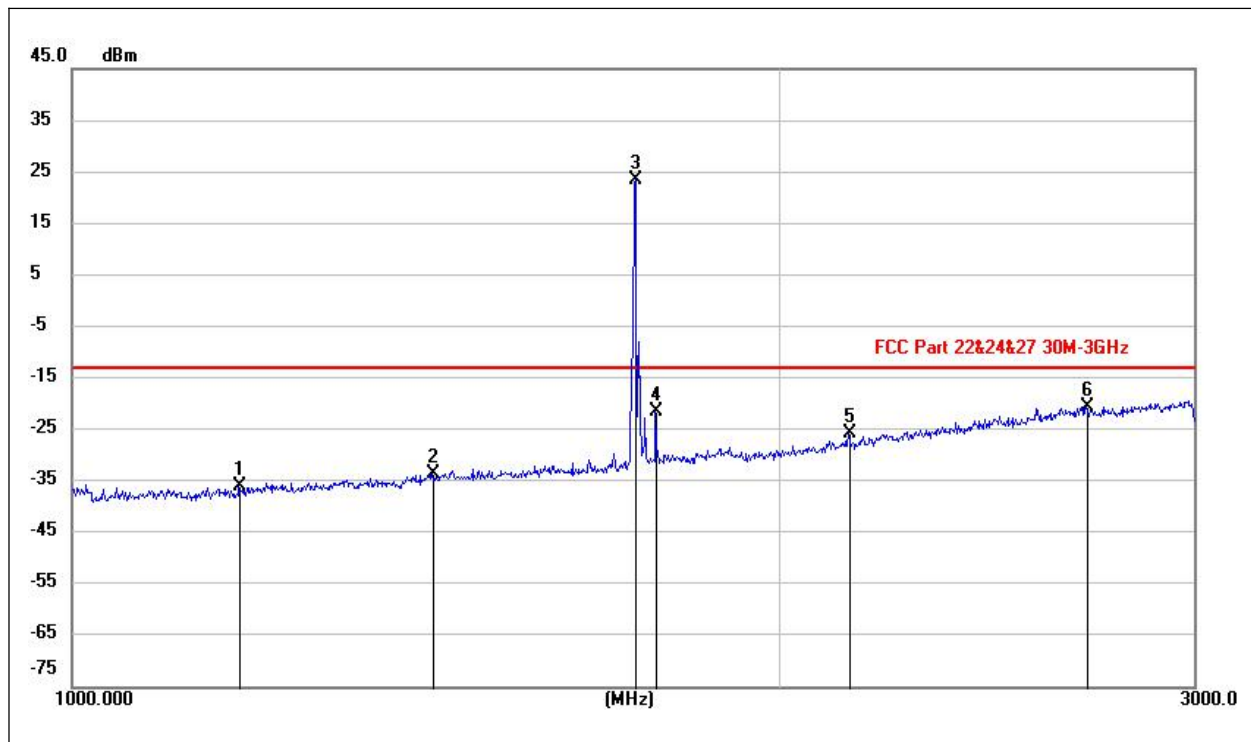
(LTE Band 4 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3686.250	-51.95	-13.00	38.95	V	7.62	PASS
5984.250	-50.69	-13.00	37.69	V	10.53	PASS
8971.500	-50.33	-13.00	37.33	V	14.71	PASS
12825.750	-50.19	-13.00	37.19	V	16.65	PASS
15743.250	-46.86	-13.00	33.86	V	22.22	PASS
17709.750	-44.13	-13.00	31.13	V	24.30	PASS



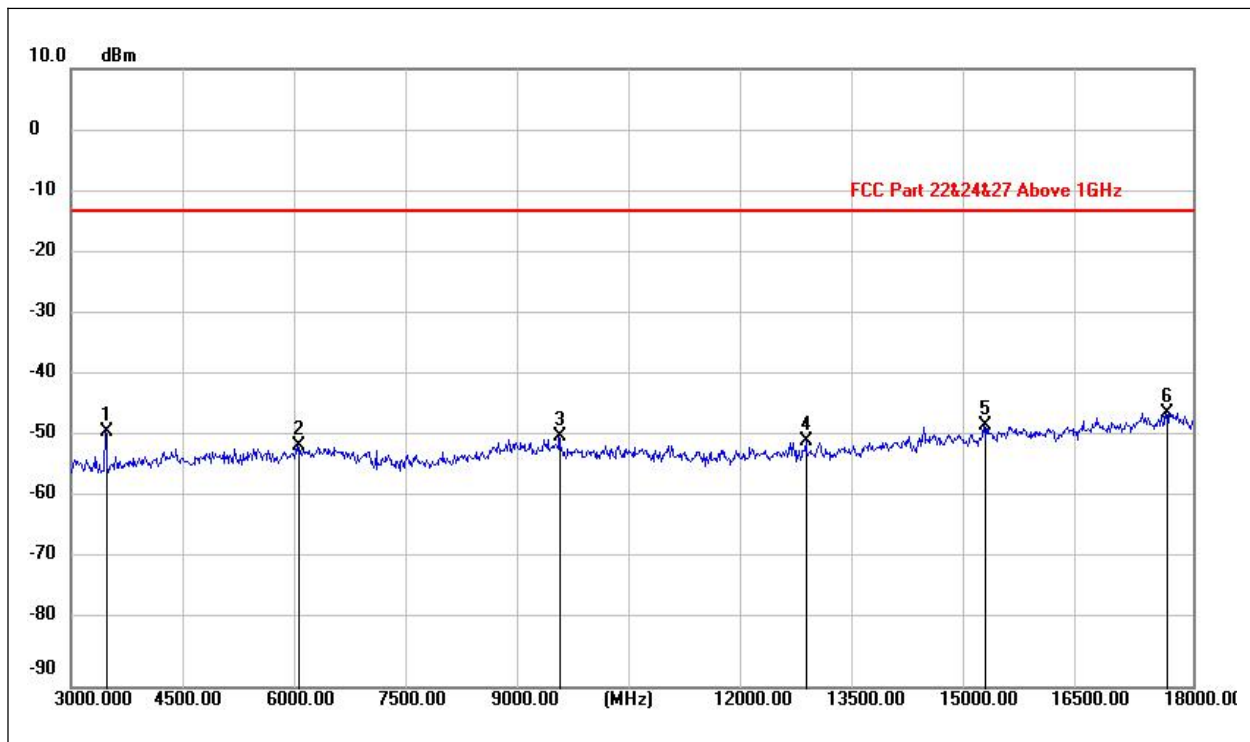
(LTE Band 4 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.8805	-60.37	-13.00	47.37	H	27.72	PASS
52.1804	-58.43	-13.00	45.43	H	29.76	PASS
94.5112	-65.03	-13.00	52.03	H	22.76	PASS
237.3927	-59.12	-13.00	46.12	H	28.22	PASS
614.4296	-51.07	-13.00	38.07	H	35.44	PASS
995.1028	-47.84	-13.00	34.84	H	38.96	PASS



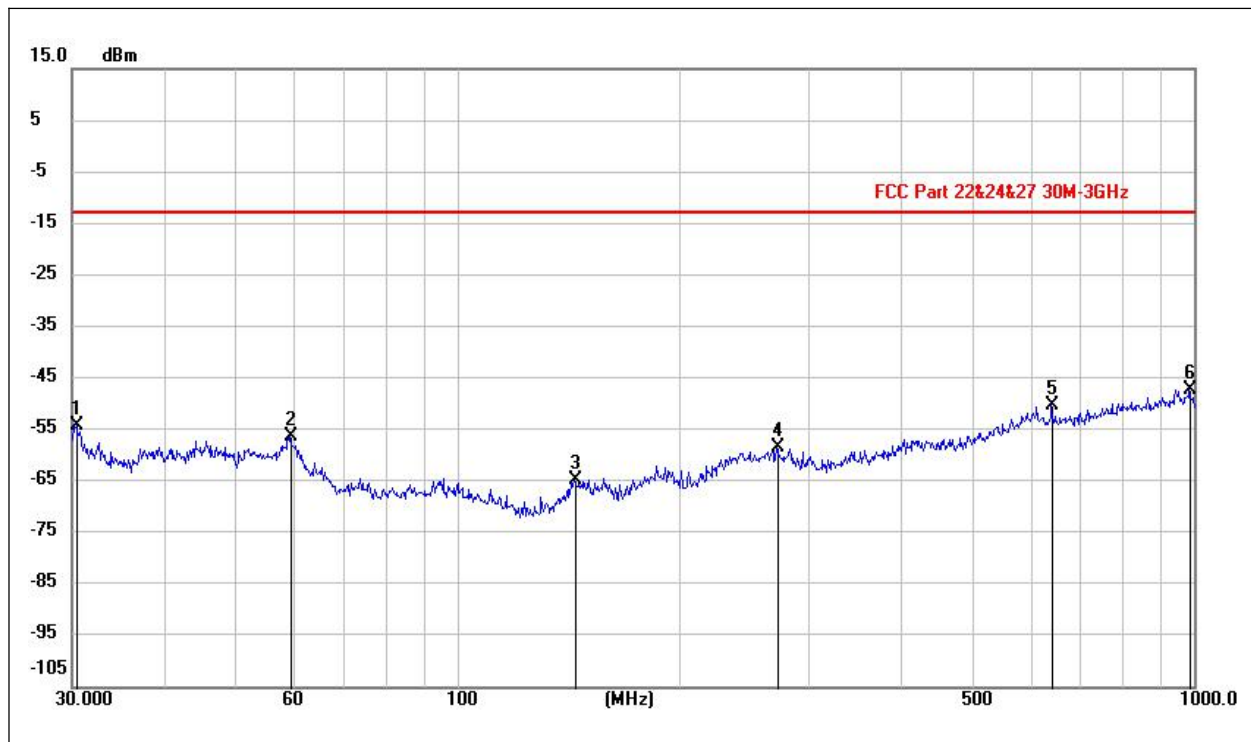
(LTE Band 4 _QPSK_ High Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1178.047	-35.87	-13.00	22.87	H	40.59	PASS
1423.778	-33.66	-13.00	20.66	H	43.16	PASS
1736.051	23.50	N/A	N/A	H	45.29	N/A
1771.794	-21.41	-13.00	8.41	H	45.85	PASS
2140.317	-25.66	-13.00	12.66	H	48.80	PASS
2701.345	-20.59	-13.00	7.59	H	53.77	PASS



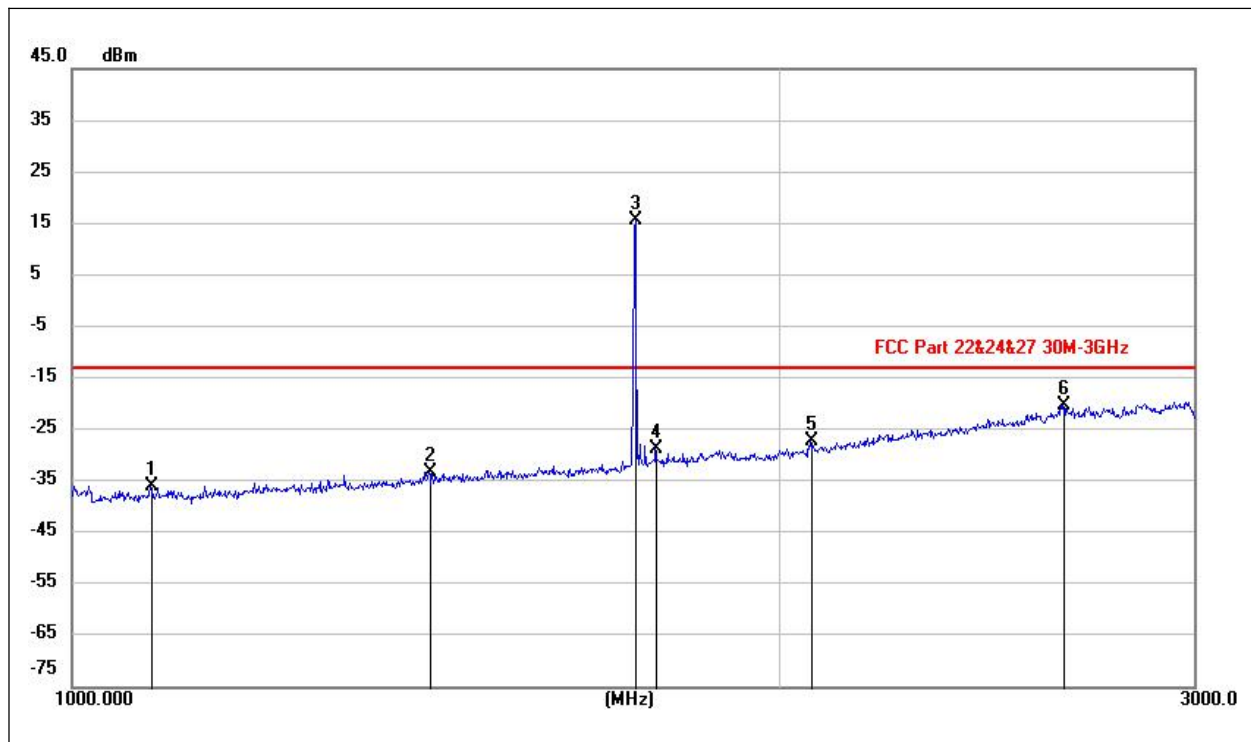
(LTE Band 4 _QPSK_ High Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3471.750	-48.76	-13.00	35.76	H	6.85	PASS
6034.500	-50.95	-13.00	37.95	H	11.20	PASS
9531.750	-49.52	-13.00	36.52	H	14.47	PASS
12827.250	-50.30	-13.00	37.30	H	16.70	PASS
15213.000	-47.77	-13.00	34.77	H	20.66	PASS
17643.750	-45.70	-13.00	32.70	H	24.62	PASS



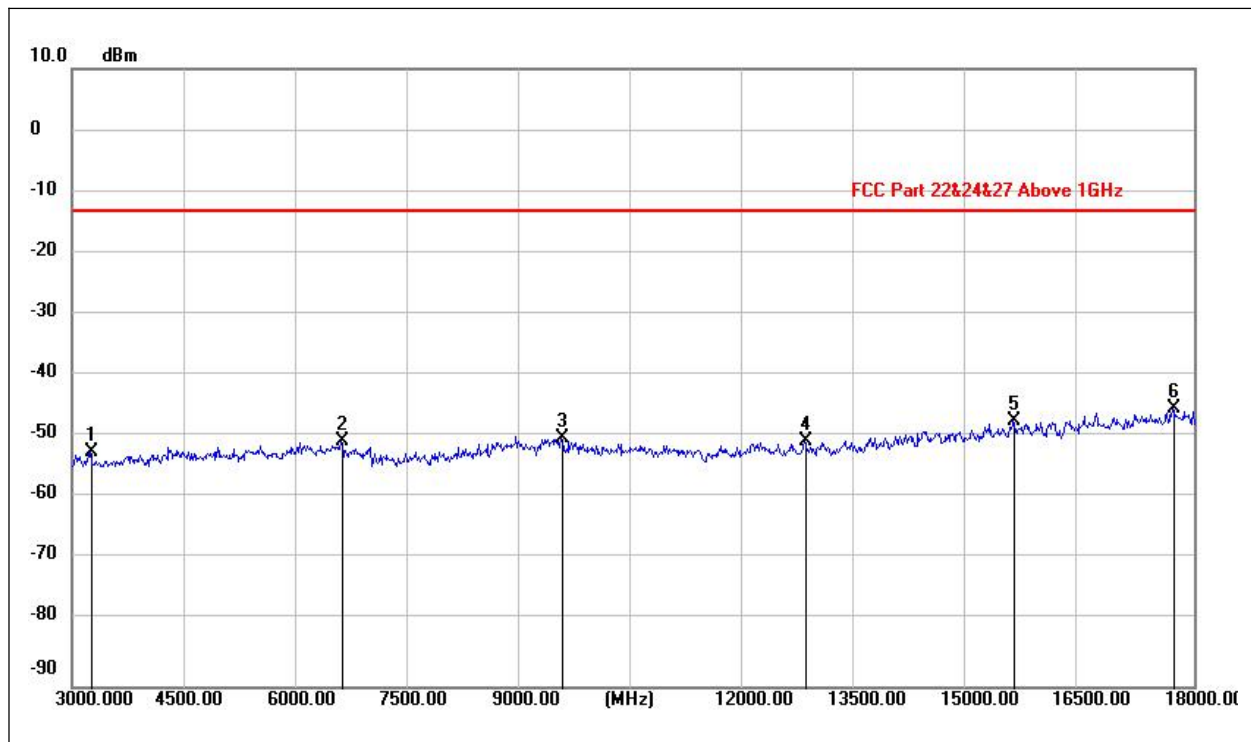
(LTE Band 4_QPSK_ High Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.4771	-54.07	-13.00	41.07	V	19.68	PASS
59.4197	-56.22	-13.00	43.22	V	23.75	PASS
144.6895	-64.76	-13.00	51.76	V	23.59	PASS
272.0868	-58.54	-13.00	45.54	V	25.94	PASS
641.3977	-50.26	-13.00	37.26	V	34.92	PASS
988.8417	-47.39	-13.00	34.39	V	39.02	PASS



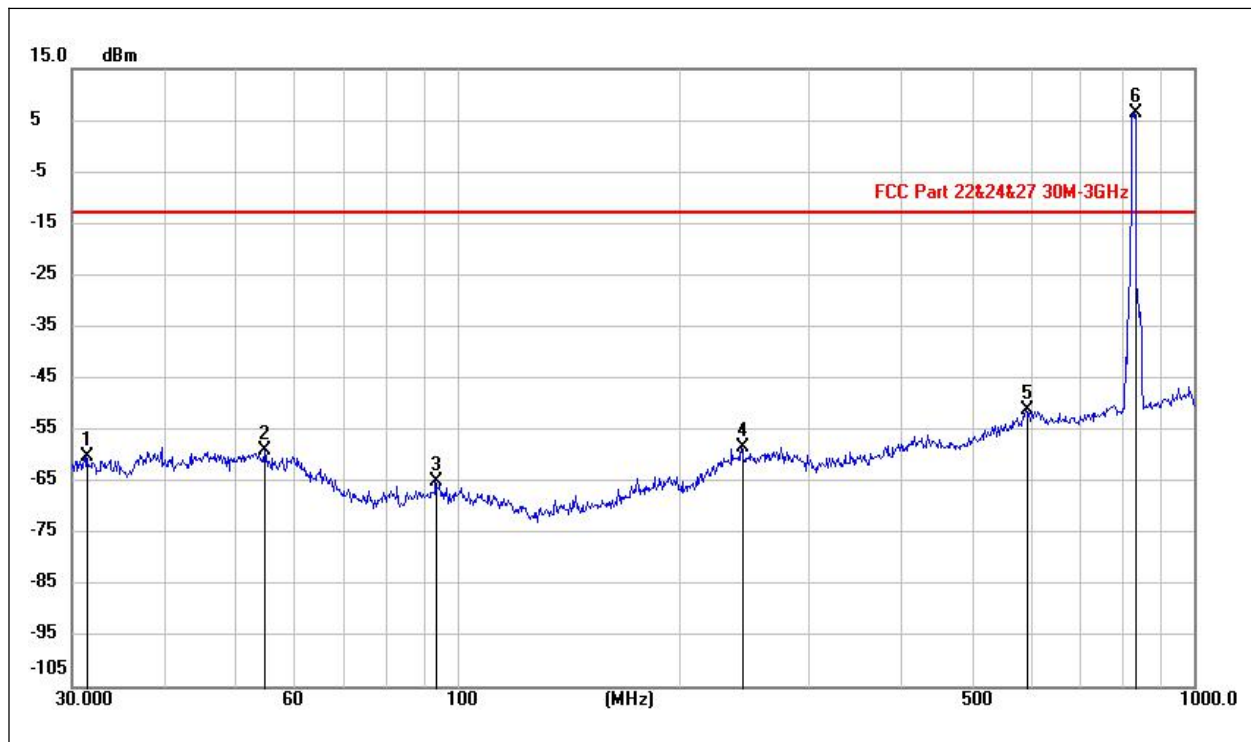
(LTE Band 4 _QPSK_ High Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1080.887	-36.10	-13.00	23.10	V	39.79	PASS
1419.249	-33.27	-13.00	20.27	V	42.44	PASS
1736.147	15.70	N/A	N/A	V	45.37	N/A
1771.599	-28.76	-13.00	15.76	V	46.00	PASS
2062.071	-27.36	-13.00	14.36	V	47.53	PASS
2639.736	-20.29	-13.00	7.29	V	53.79	PASS



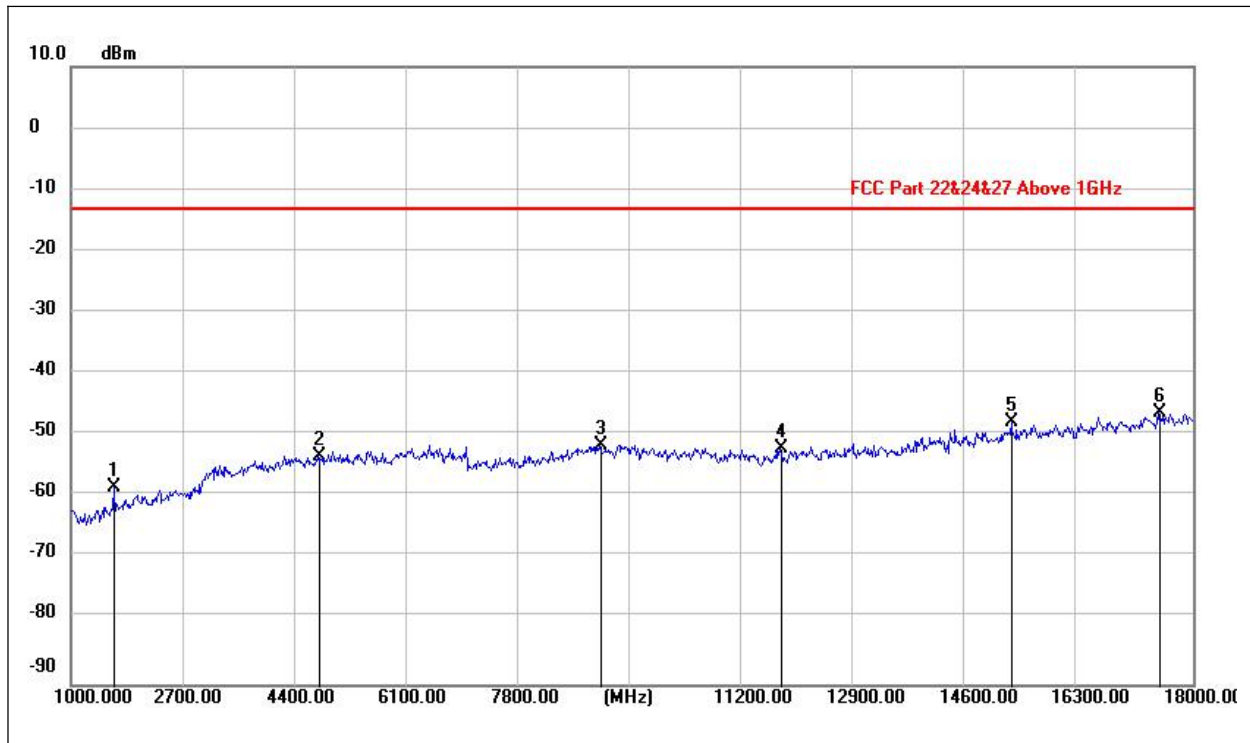
(LTE Band 4 _QPSK_ High Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3247.500	-51.98	-13.00	38.98	V	6.86	PASS
6608.250	-50.09	-13.00	37.09	V	10.86	PASS
9546.000	-49.58	-13.00	36.58	V	14.84	PASS
12805.500	-50.26	-13.00	37.26	V	16.76	PASS
15596.250	-47.02	-13.00	34.02	V	21.56	PASS
17720.250	-44.79	-13.00	31.79	V	24.50	PASS



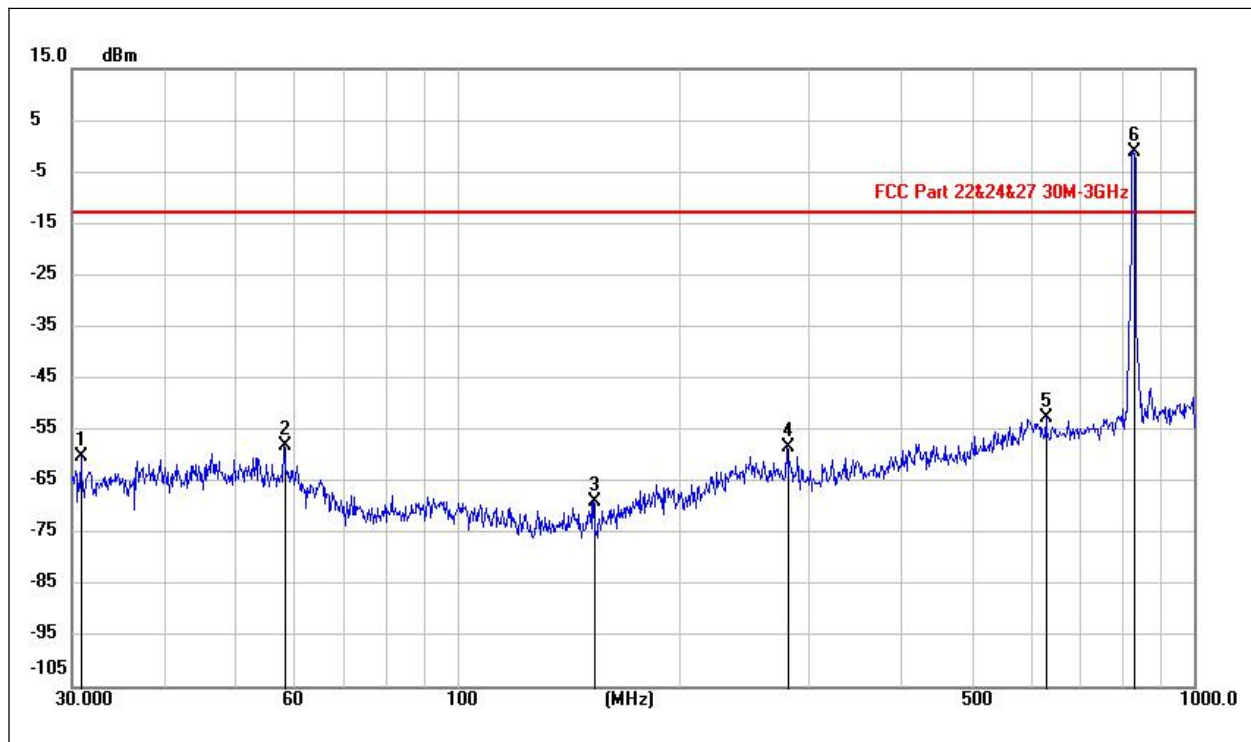
(LTE Band 5 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
31.4653	-60.31	-13.00	47.31	H	27.49	PASS
54.8348	-58.89	-13.00	45.89	H	28.99	PASS
93.4730	-65.08	-13.00	52.08	H	22.37	PASS
243.8043	-58.56	-13.00	45.56	H	28.80	PASS
592.0108	-51.10	-13.00	38.10	H	35.32	PASS
833.0250	6.50	N/A	N/A	H	36.98	N/A



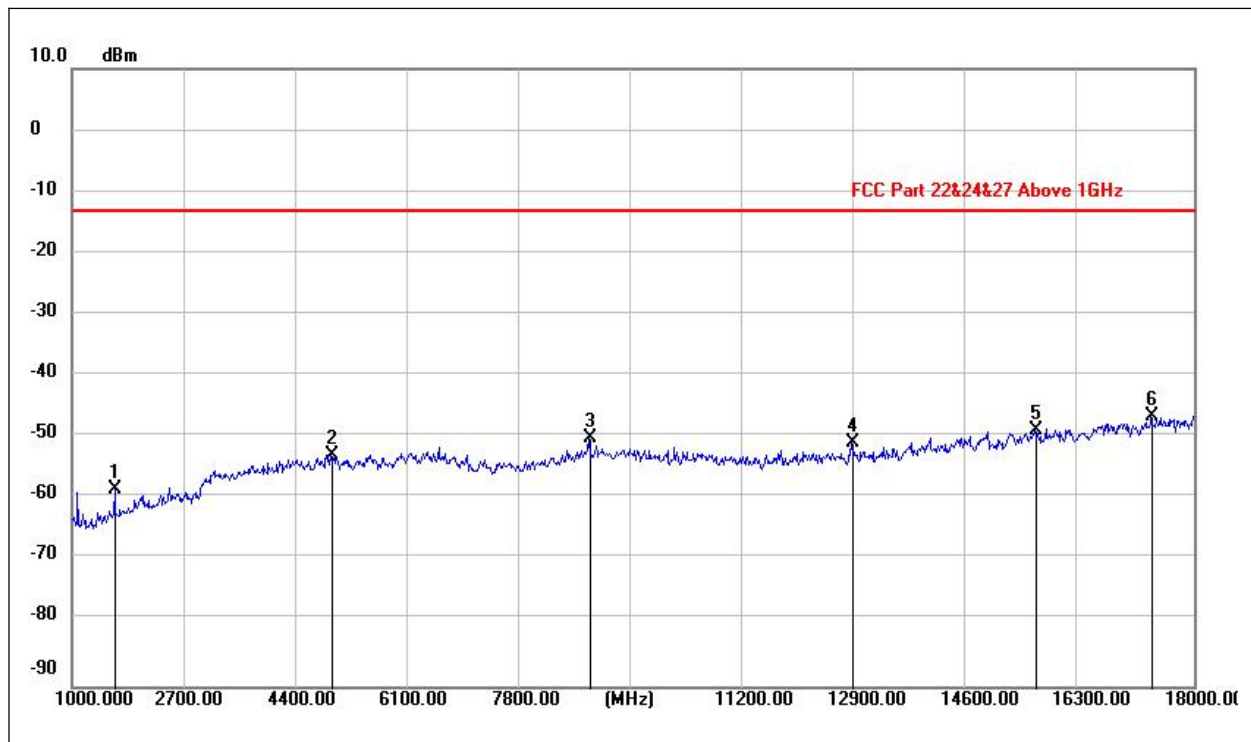
(LTE Band 5 _QPSK _ Low Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1657.900	-57.99	-13.00	44.99	H	-3.02	PASS
4743.400	-52.90	-13.00	39.90	H	8.02	PASS
9012.100	-51.15	-13.00	38.15	H	12.90	PASS
11751.650	-51.67	-13.00	38.67	H	14.04	PASS
15261.300	-47.45	-13.00	34.45	H	20.65	PASS
17481.500	-45.96	-13.00	32.96	H	23.95	PASS



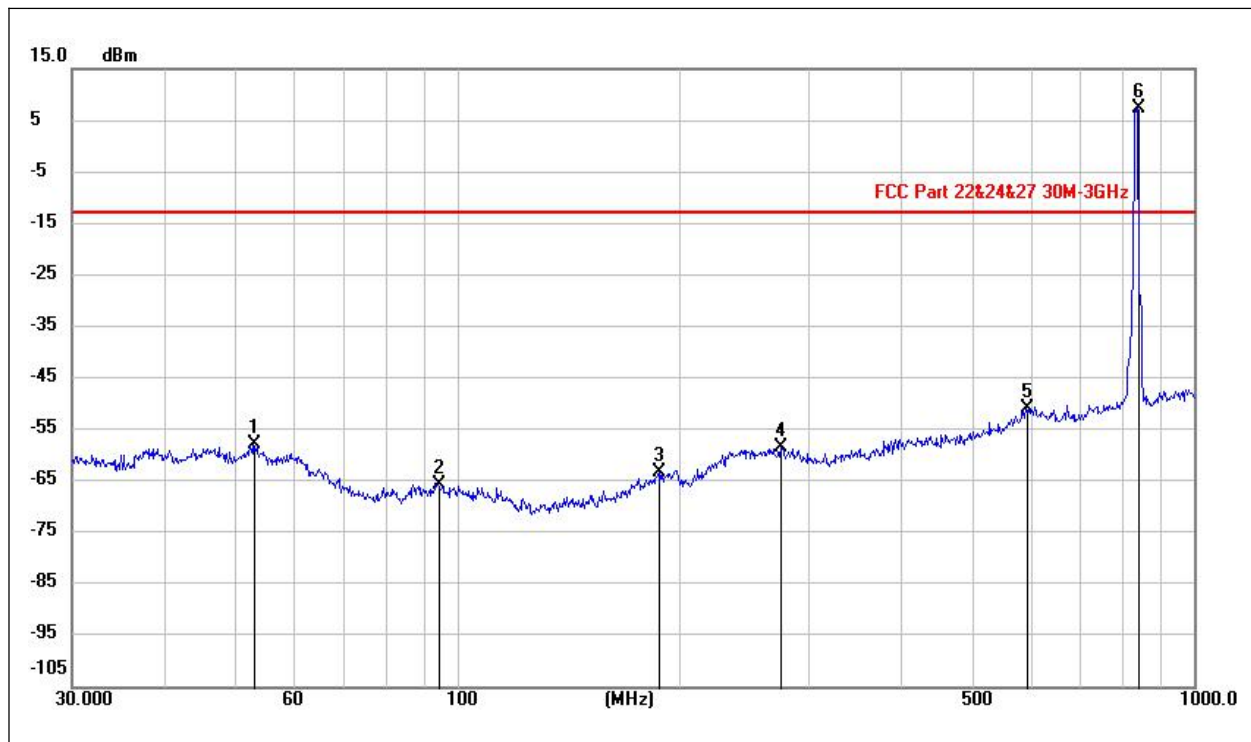
(LTE Band 5 _ QPSK _ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.9402	-60.11	-13.00	47.11	V	19.71	PASS
58.3767	-58.13	-13.00	45.13	V	22.70	PASS
153.2273	-68.86	-13.00	55.86	V	23.40	PASS
280.2694	-58.48	-13.00	45.48	V	26.79	PASS
631.0242	-52.58	-13.00	39.58	V	34.09	PASS
829.2362	-1.01	N/A	N/A	V	36.98	N/A



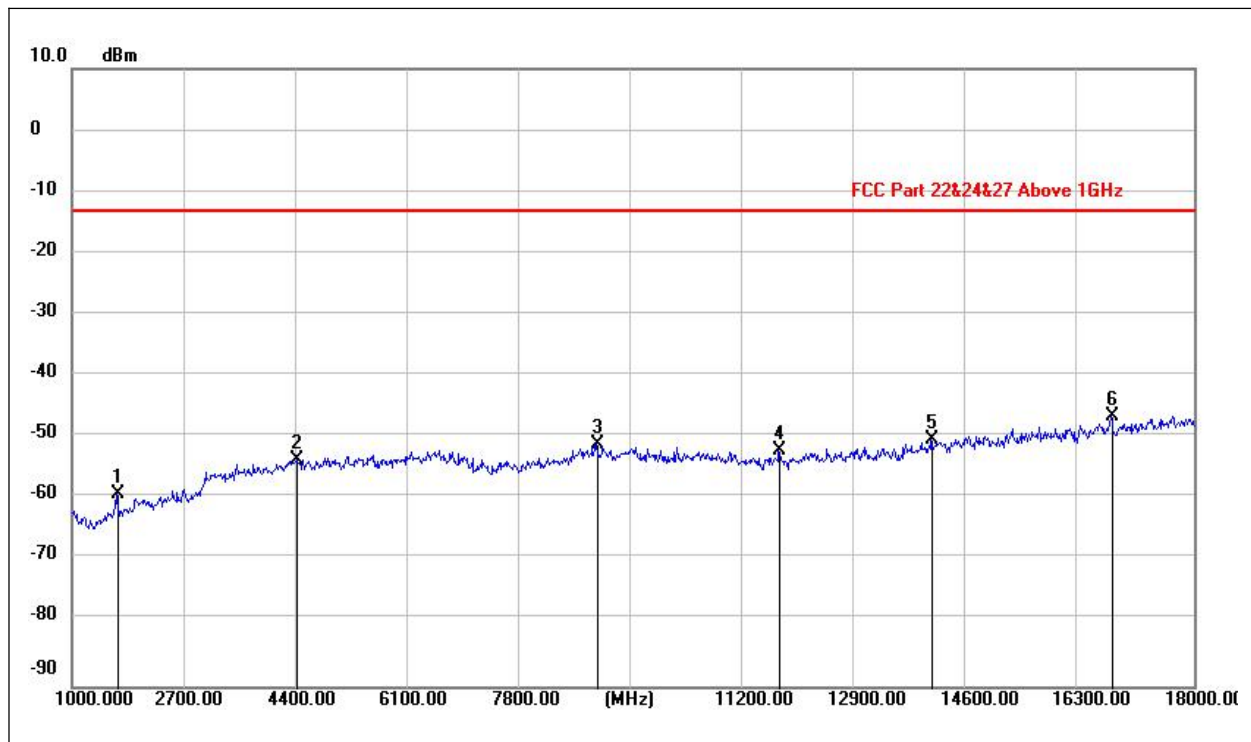
(LTE Band 5 _ QPSK _ Low Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1662.150	-58.08	-13.00	45.08	V	-2.78	PASS
4931.250	-52.40	-13.00	39.40	V	8.73	PASS
8843.800	-49.70	-13.00	36.70	V	12.88	PASS
12830.300	-50.53	-13.00	37.53	V	15.87	PASS
15591.950	-48.41	-13.00	35.41	V	20.88	PASS
17359.100	-46.15	-13.00	33.15	V	23.08	PASS



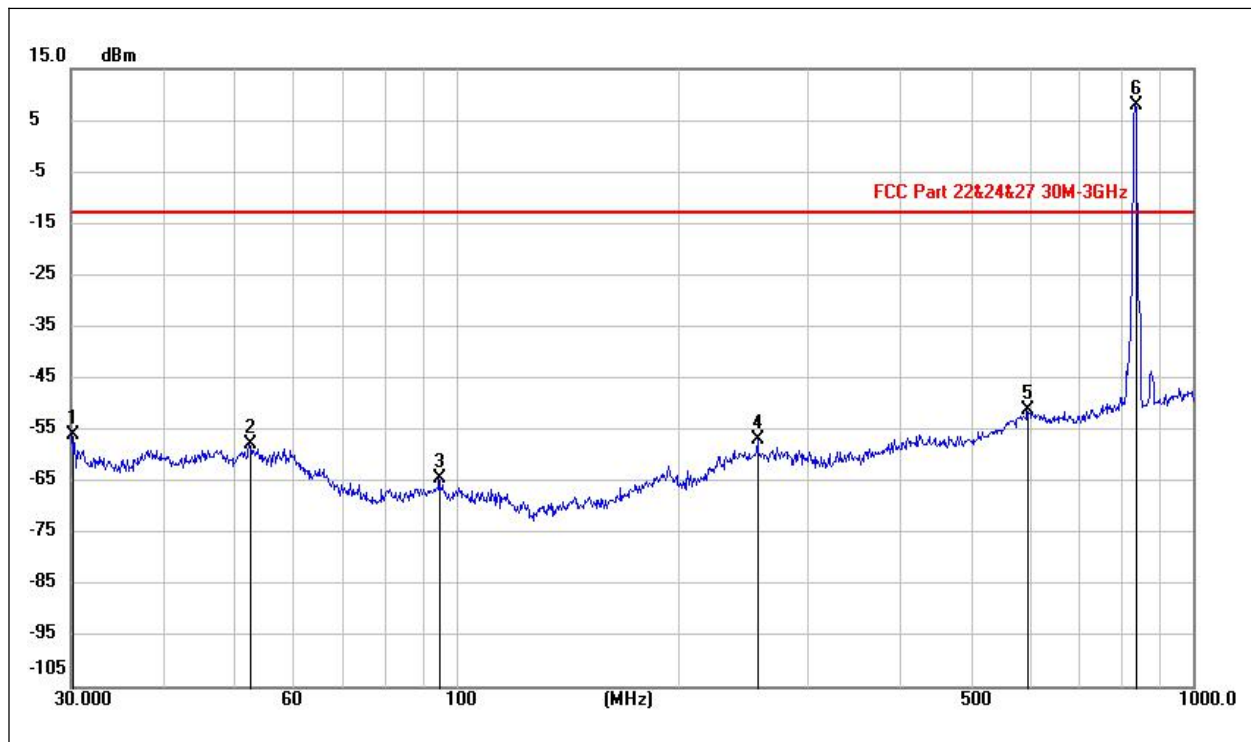
(LTE Band 5 _ QPSK_Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
53.1034	-57.95	-13.00	44.95	H	30.03	PASS
94.3291	-65.72	-13.00	52.72	H	22.75	PASS
187.9836	-63.23	-13.00	50.23	H	24.01	PASS
275.1570	-58.50	-13.00	45.50	H	29.17	PASS
592.2184	-50.83	-13.00	37.83	H	35.34	PASS
839.9178	7.37	N/A	N/A	H	37.00	N/A



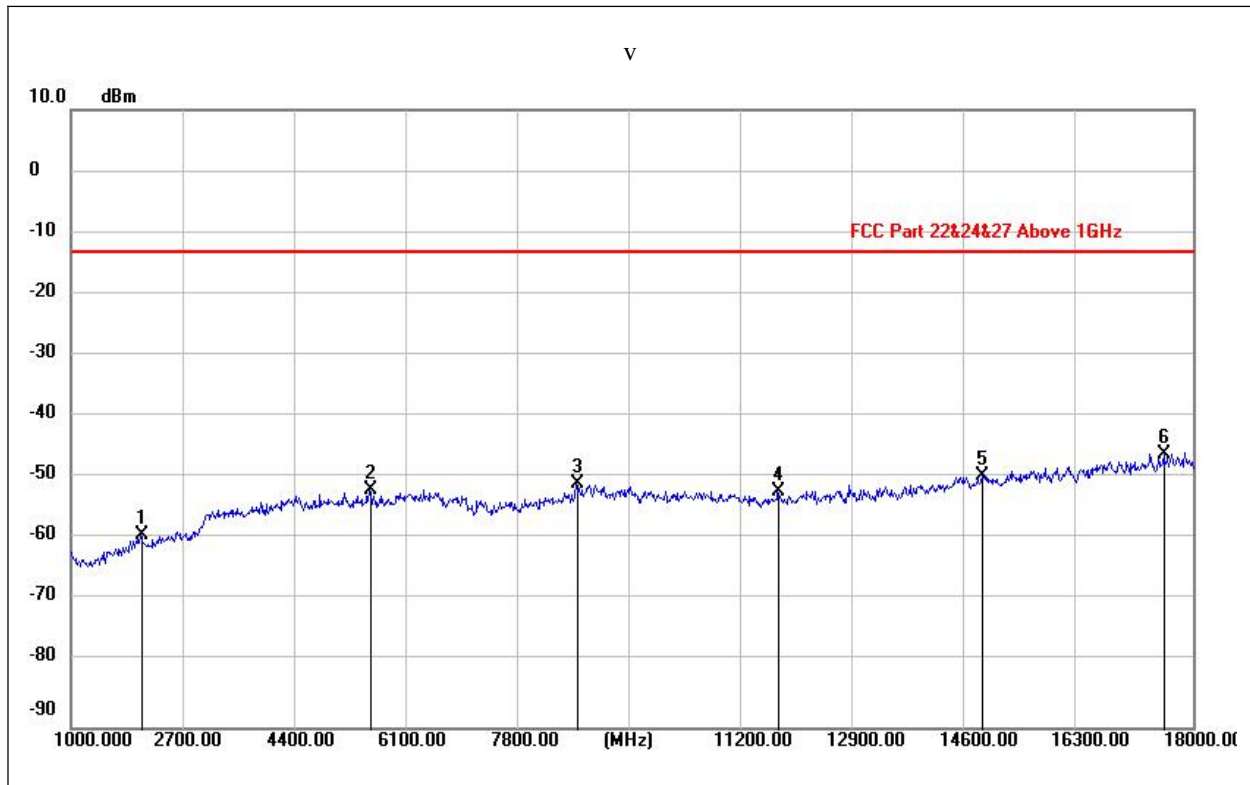
(LTE Band 5 _ QPSK_Middle Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1683.400	-58.63	-13.00	45.63	H	-3.07	PASS
4416.150	-53.24	-13.00	40.24	H	8.12	PASS
8949.200	-50.63	-13.00	37.63	H	13.11	PASS
11715.100	-51.74	-13.00	38.74	H	14.03	PASS
14031.350	-49.88	-13.00	36.88	H	18.17	PASS
16750.500	-46.28	-13.00	33.28	H	22.84	PASS



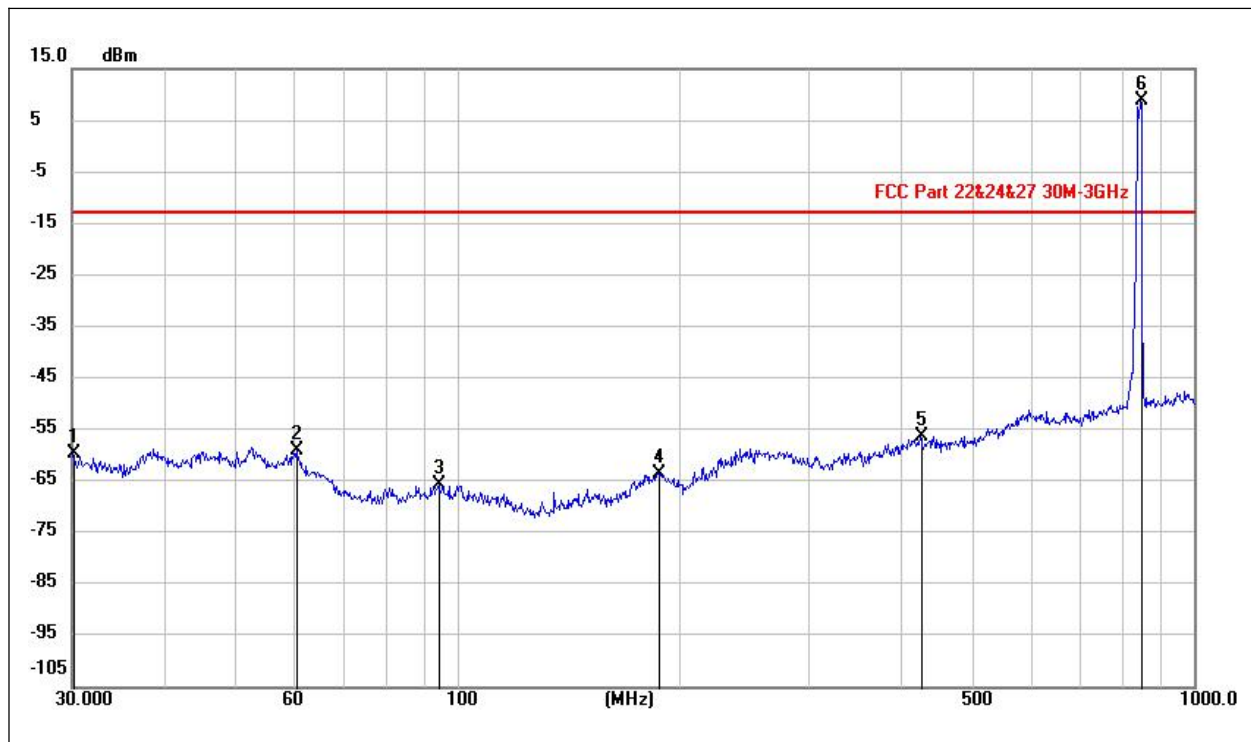
(LTE Band 5 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.1159	-56.01	-13.00	43.01	V	19.56	PASS
52.4648	-57.94	-13.00	44.94	V	23.33	PASS
94.9264	-64.50	-13.00	51.50	V	27.17	PASS
257.3770	-56.77	-13.00	43.77	V	25.46	PASS
595.5504	-51.15	-13.00	38.15	V	34.58	PASS
837.8587	7.83	N/A	N/A	V	37.04	N/A



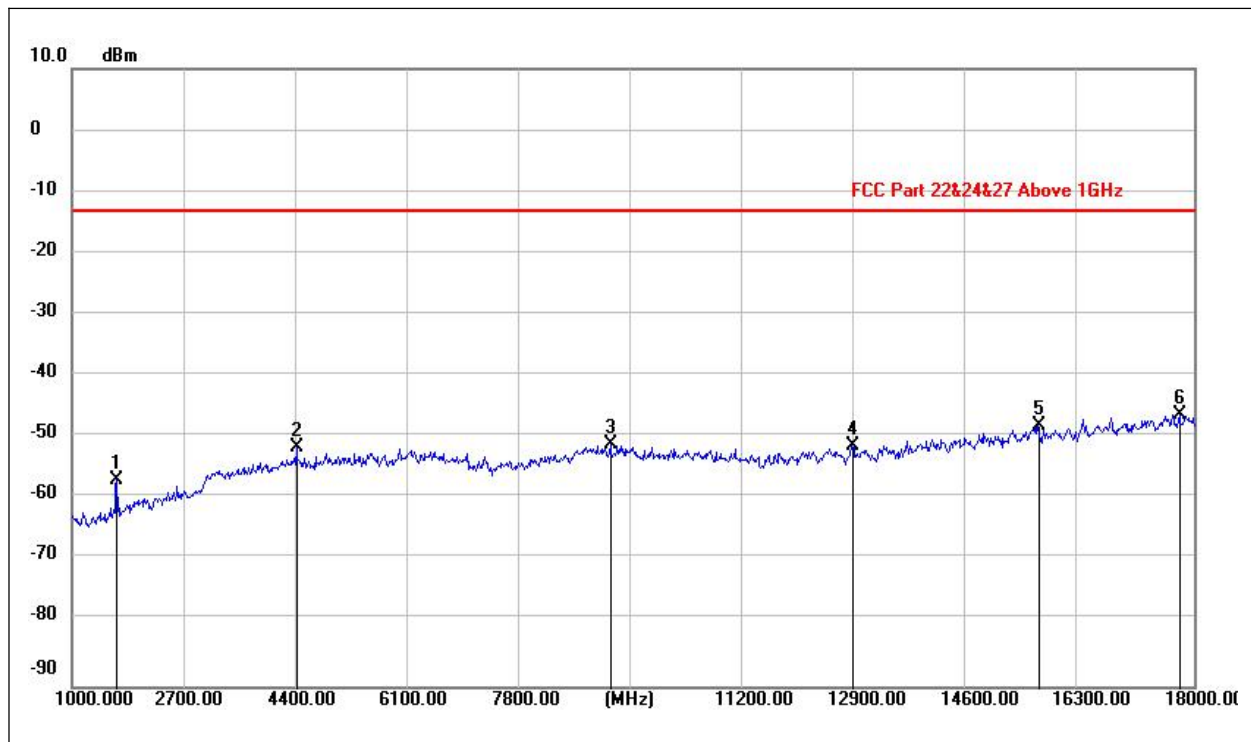
(LTE Band 5 _QPSK_ Middle Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2067.600	-58.73	-13.00	45.73	V	-0.37	PASS
5534.750	-51.50	-13.00	38.50	V	9.11	PASS
8652.550	-50.49	-13.00	37.49	V	12.28	PASS
11723.600	-51.71	-13.00	38.71	V	13.99	PASS
14811.650	-49.12	-13.00	36.12	V	19.12	PASS
17565.650	-45.65	-13.00	32.65	V	22.96	PASS



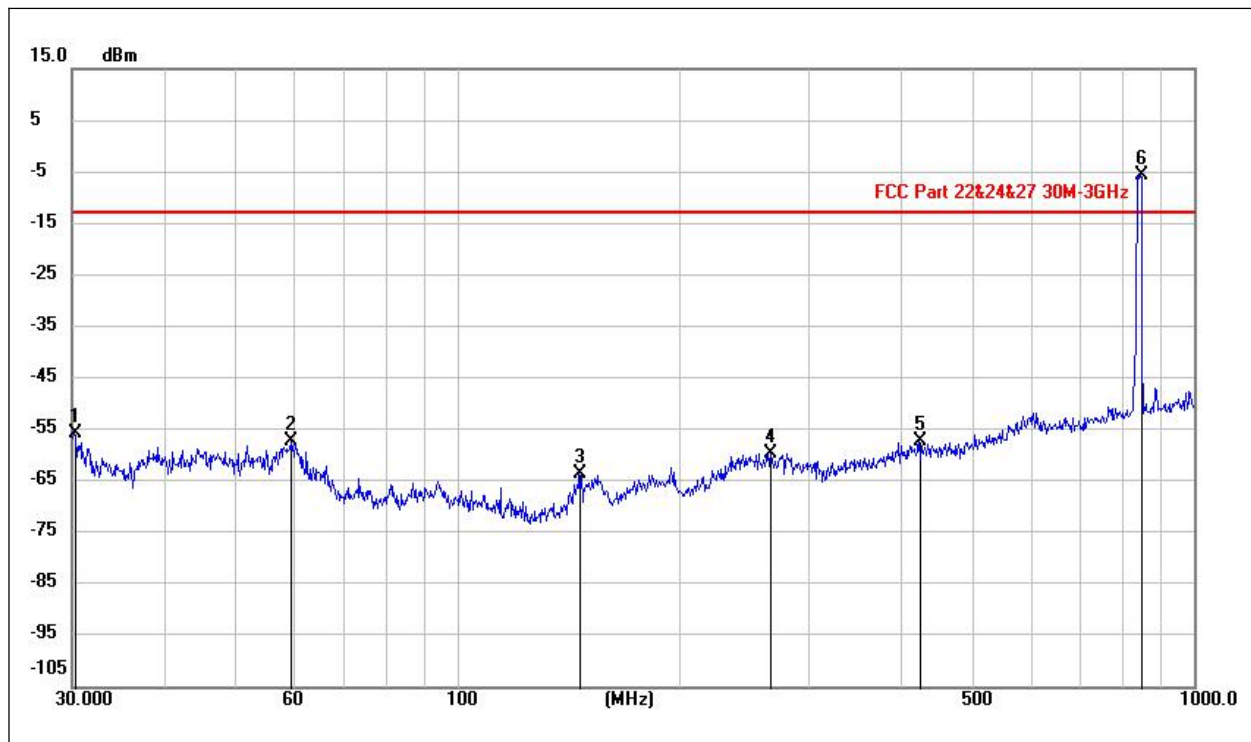
(LTE Band 5 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.2005	-59.54	-13.00	46.54	H	27.45	PASS
60.6193	-58.93	-13.00	45.93	H	28.61	PASS
94.5941	-65.65	-13.00	52.65	H	22.77	PASS
187.8188	-63.49	-13.00	50.49	H	24.01	PASS
426.0726	-56.36	-13.00	43.36	H	30.80	PASS
846.1256	8.67	N/A	N/A	H	37.13	N/A



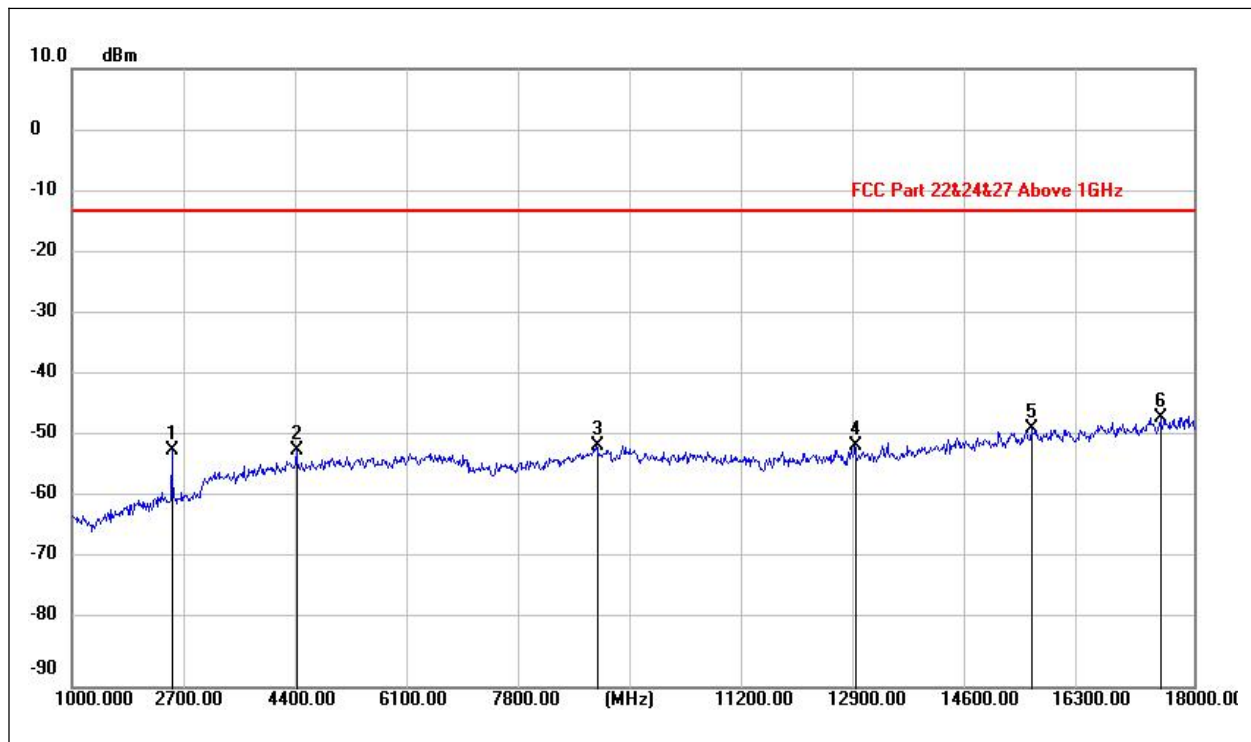
(LTE Band 5 _QPSK_ High Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1680.000	-56.48	-13.00	43.48	H	-2.97	PASS
4406.800	-51.25	-13.00	38.25	H	8.16	PASS
9170.200	-50.56	-13.00	37.56	H	12.71	PASS
12820.950	-50.88	-13.00	37.88	H	15.91	PASS
15640.400	-47.55	-13.00	34.55	H	20.67	PASS
17779.850	-45.84	-13.00	32.84	H	24.79	PASS



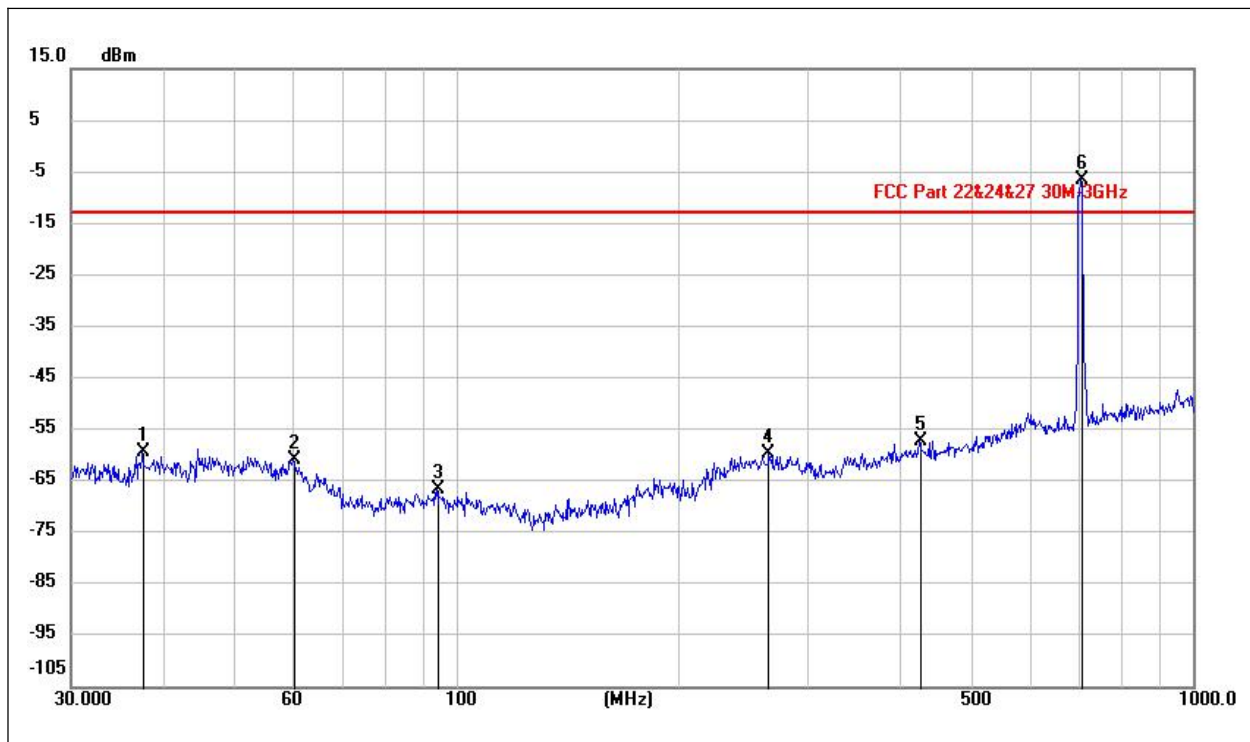
(LTE Band 5 _QPSK_ High Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.2588	19.60	-13.00	55.63	V	19.60	PASS
59.5240	23.87	-13.00	57.18	V	23.87	PASS
146.6304	23.26	-13.00	63.45	V	23.26	PASS
266.6089	25.80	-13.00	59.58	V	25.80	PASS
424.5067	30.01	-13.00	57.31	V	30.01	PASS
846.7192	37.09	N/A	N/A	V	37.09	N/A



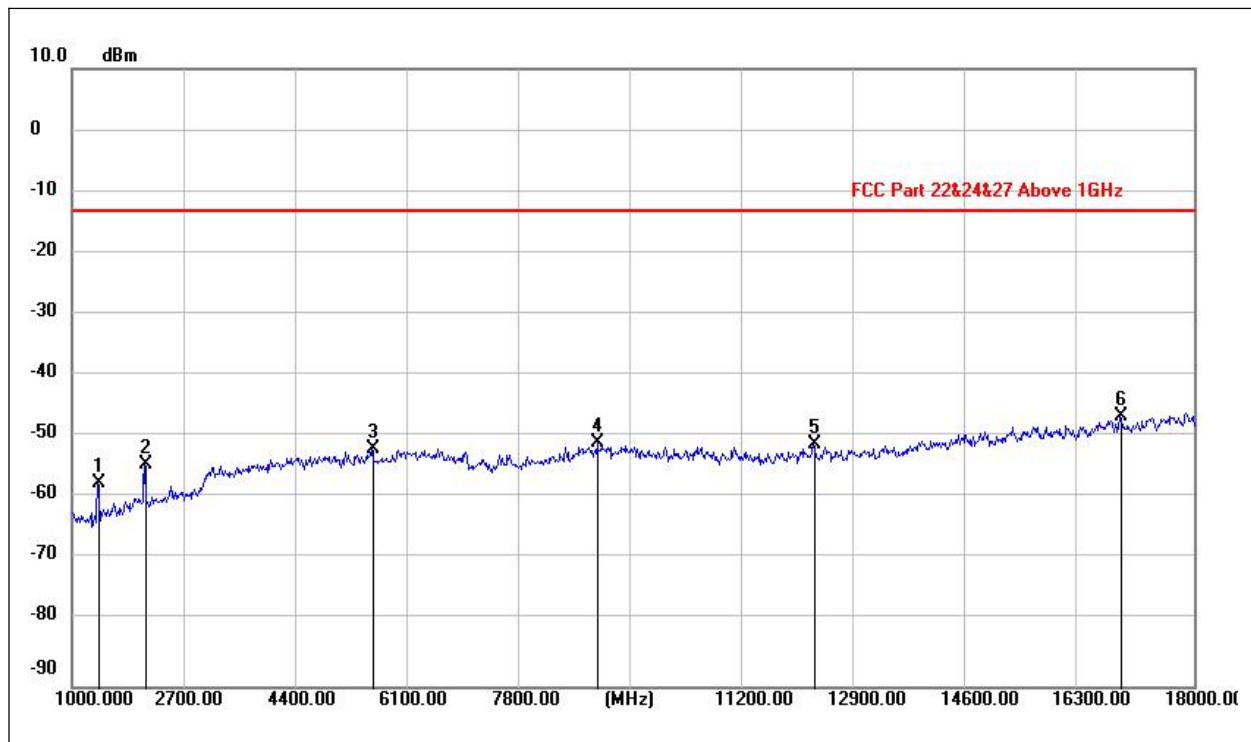
(LTE Band 5 _QPSK_ High Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2529.150	-51.80	-13.00	38.80	V	0.56	PASS
4415.300	-51.73	-13.00	38.73	V	8.03	PASS
8943.250	-51.01	-13.00	38.01	V	13.22	PASS
12871.100	-51.02	-13.00	38.02	V	15.88	PASS
15537.550	-48.17	-13.00	35.17	V	21.05	PASS
17501.050	-46.35	-13.00	33.35	V	23.06	PASS



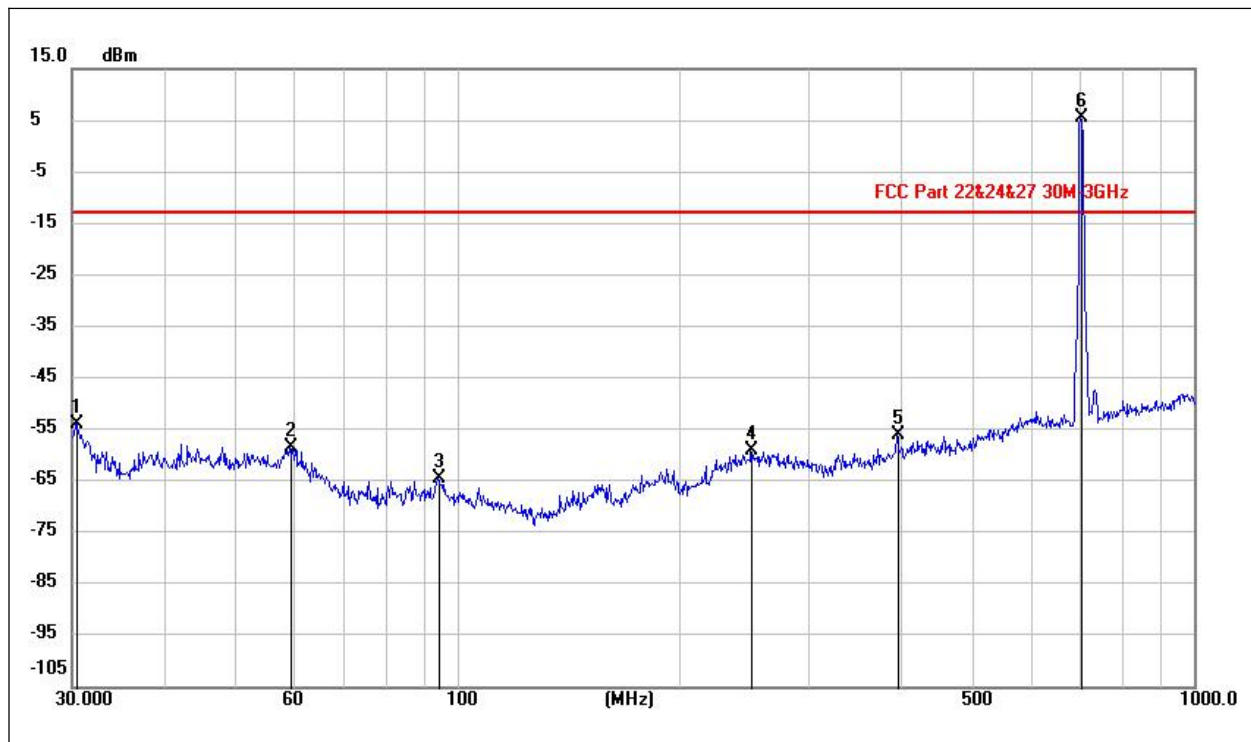
(LTE Band 12 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
37.5940	-59.34	-13.00	46.34	H	29.09	PASS
60.0902	-60.80	-13.00	47.80	H	28.84	PASS
94.1639	-66.69	-13.00	53.69	H	22.72	PASS
265.6757	-59.62	-13.00	46.62	H	28.95	PASS
425.3262	-57.09	-13.00	44.09	H	30.80	PASS
704.3496	-6.51	N/A	N/A	H	34.30	N/A



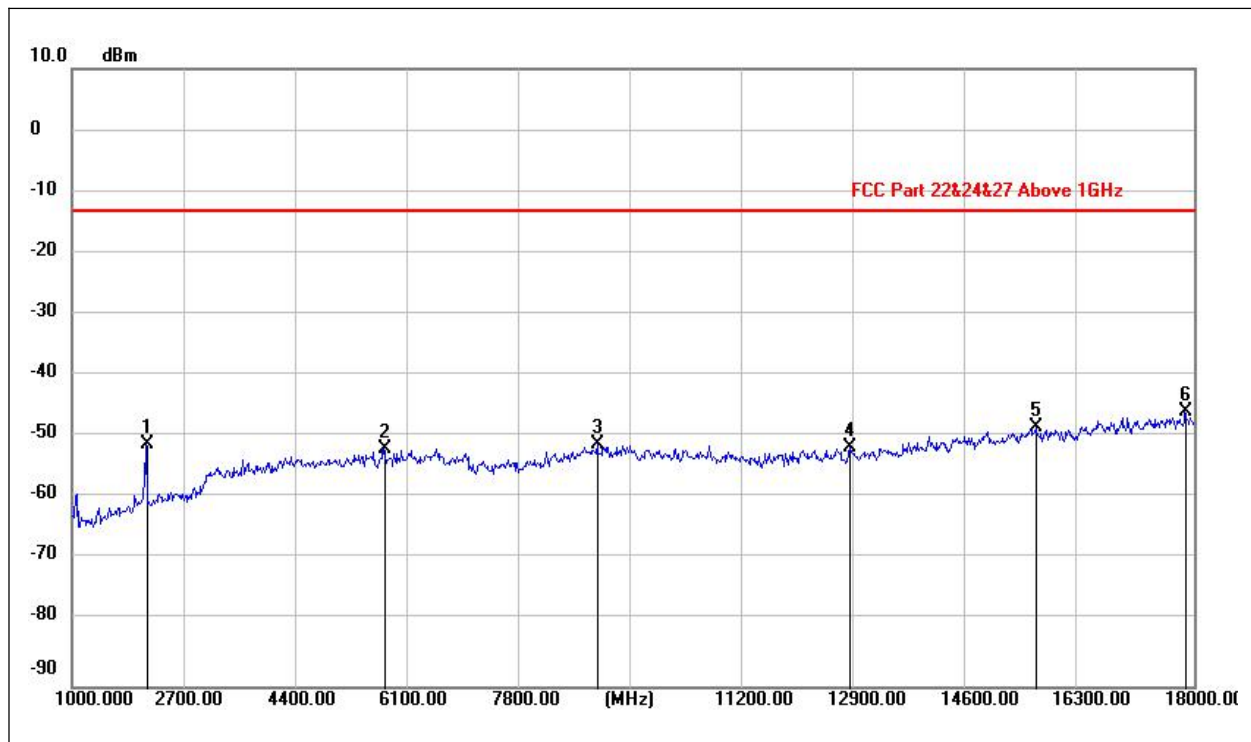
(LTE Band 12 _QPSK _Low Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1392.700	-56.92	-13.00	43.92	H	-3.87	PASS
2110.950	-53.82	-13.00	40.82	H	-0.61	PASS
5542.400	-51.36	-13.00	38.36	H	9.36	PASS
8967.050	-50.55	-13.00	37.55	H	13.07	PASS
12253.150	-50.80	-13.00	37.80	H	14.74	PASS
16886.500	-46.17	-13.00	33.17	H	22.92	PASS



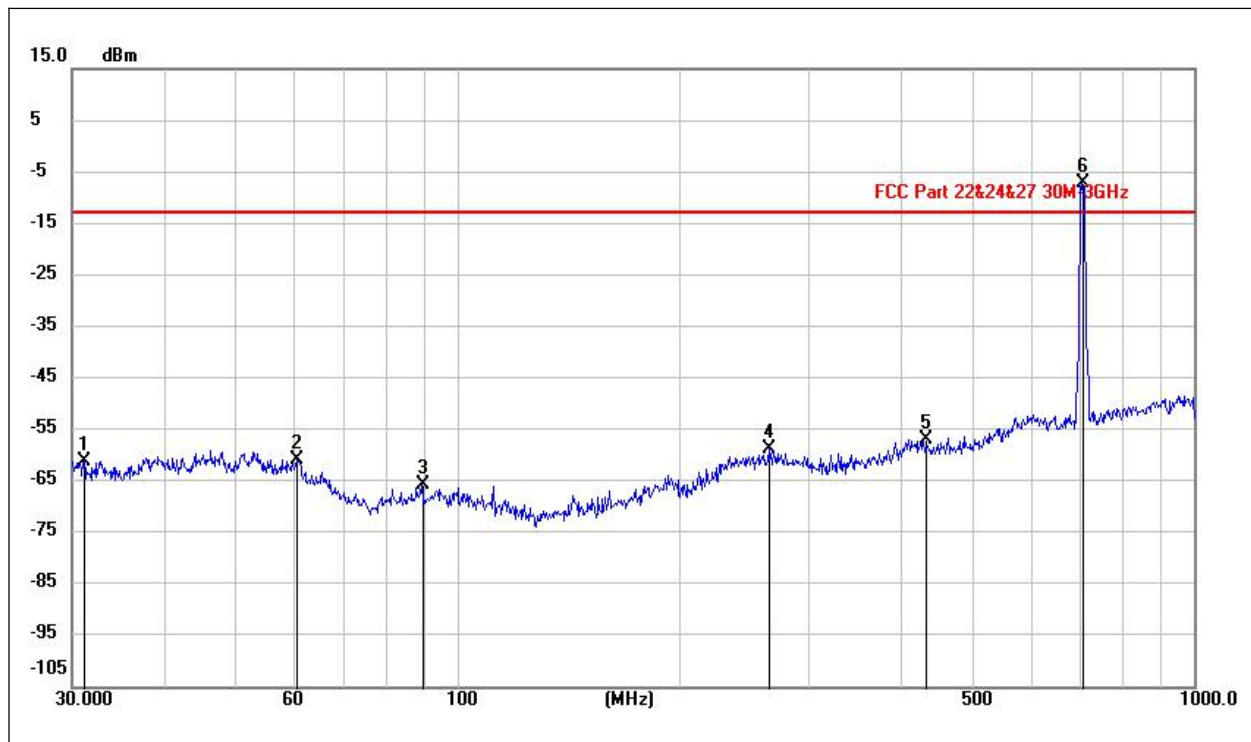
(LTE Band 12 _QPSK_ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.4238	-53.80	-13.00	40.80	V	19.66	PASS
59.3780	-58.46	-13.00	45.46	V	23.70	PASS
94.2795	-64.52	-13.00	51.52	V	26.79	PASS
250.3451	-59.00	-13.00	46.00	V	25.18	PASS
395.0623	-56.06	-13.00	43.06	V	29.97	PASS
703.6090	5.64	N/A	N/A	V	35.18	N/A



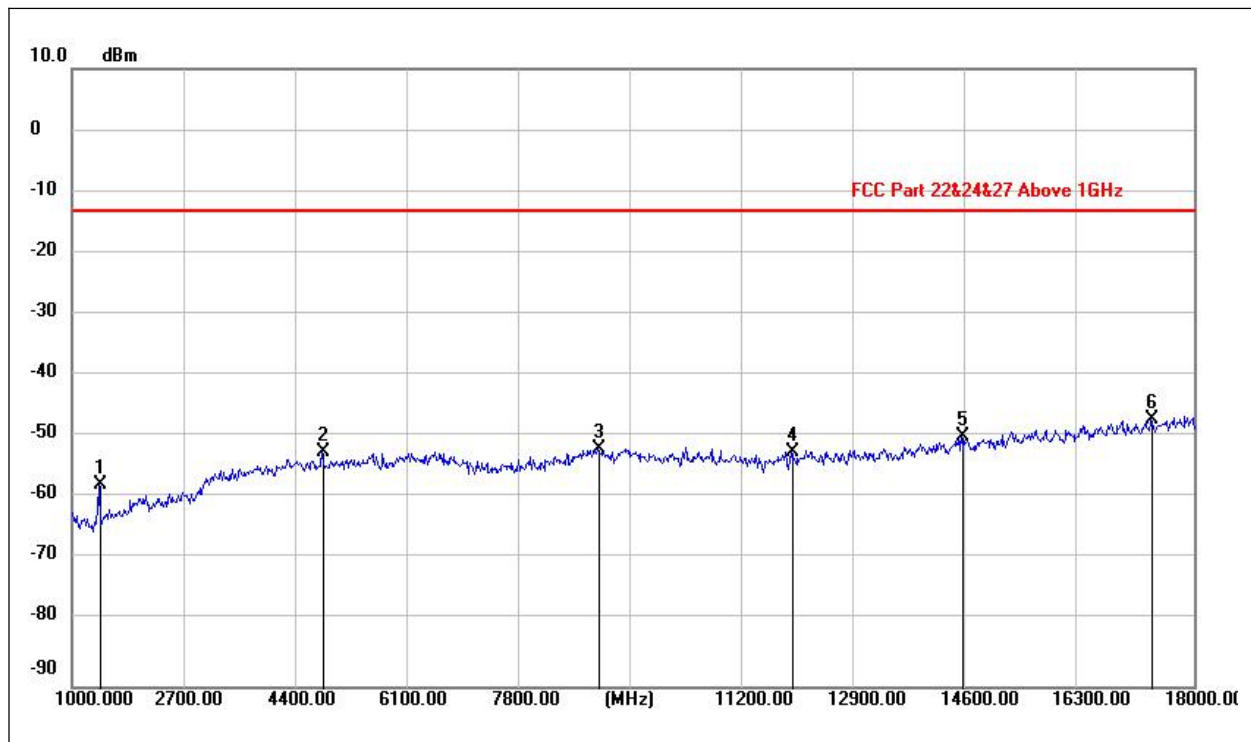
(LTE Band 12 _QPSK_ Low Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2123.700	-50.64	-13.00	37.64	V	-1.03	PASS
5734.500	-51.41	-13.00	38.41	V	9.20	PASS
8970.450	-50.76	-13.00	37.76	V	13.21	PASS
12783.550	-51.28	-13.00	38.28	V	15.73	PASS
15603.000	-48.01	-13.00	35.01	V	20.75	PASS
17873.350	-45.45	-13.00	32.45	V	23.31	PASS



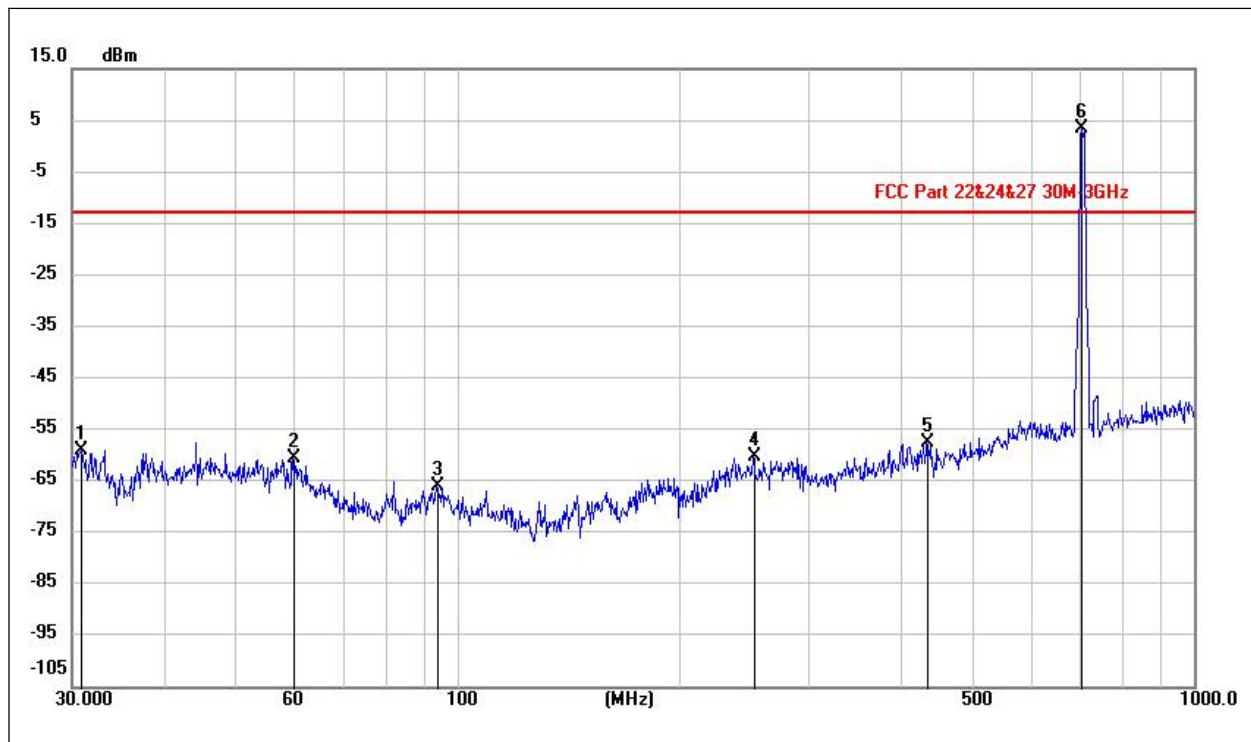
(LTE Band 12 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
31.1688	-61.05	-13.00	48.05	H	27.57	PASS
60.5768	-60.84	-13.00	47.84	H	28.63	PASS
89.8889	-65.65	-13.00	52.65	H	21.90	PASS
265.1638	-58.81	-13.00	45.81	H	28.87	PASS
431.0316	-56.88	-13.00	43.88	H	30.52	PASS
704.5966	-7.29	N/A	N/A	H	34.30	N/A



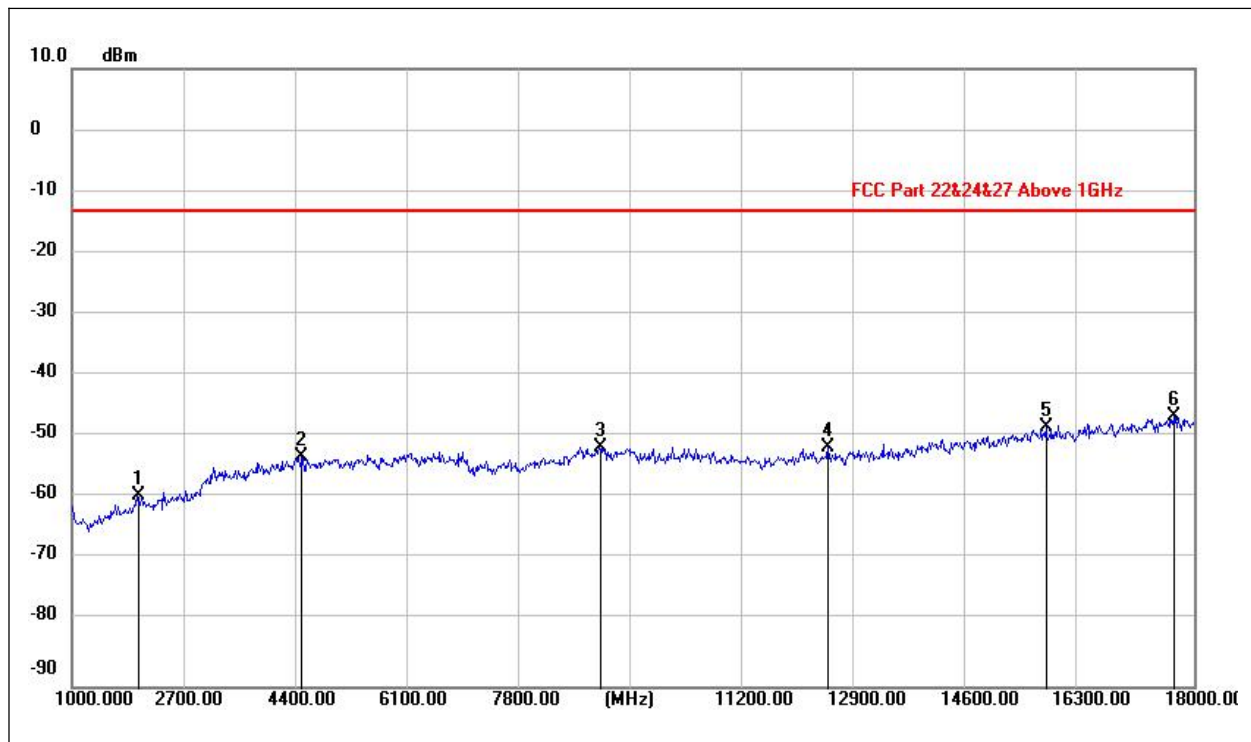
(LTE Band 12 _QPSK_ Middle Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1413.950	-57.27	-13.00	44.27	H	-4.10	PASS
4791.850	-52.03	-13.00	39.03	H	8.59	PASS
8975.550	-51.44	-13.00	38.44	H	13.04	PASS
11897.850	-51.91	-13.00	38.91	H	13.90	PASS
14492.050	-49.50	-13.00	36.50	H	18.77	PASS
17365.900	-46.66	-13.00	33.66	H	23.92	PASS



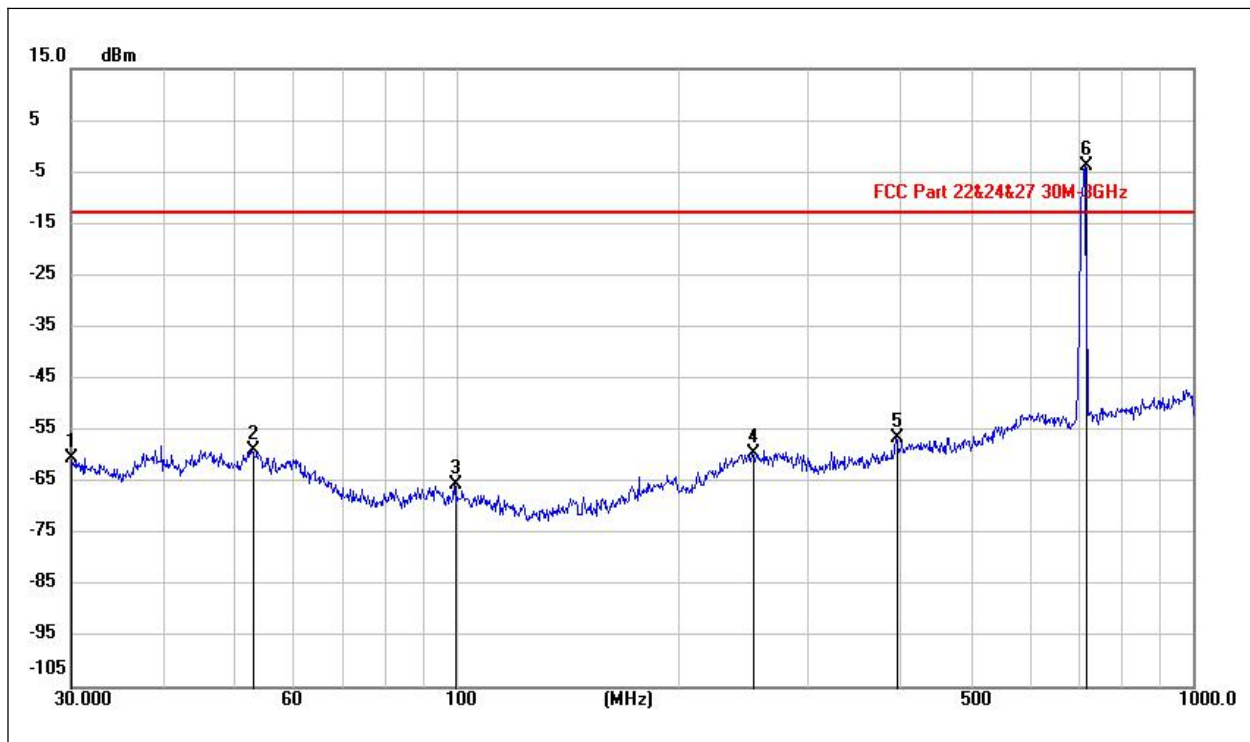
(LTE Band 12 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.9131	-58.92	-13.00	45.92	V	19.73	PASS
59.9849	-60.41	-13.00	47.41	V	24.14	PASS
93.8507	-65.82	-13.00	52.82	V	26.40	PASS
252.8595	-60.19	-13.00	47.19	V	25.27	PASS
435.2845	-57.39	-13.00	44.39	V	29.92	PASS
704.2261	3.48	N/A	N/A	V	35.18	N/A



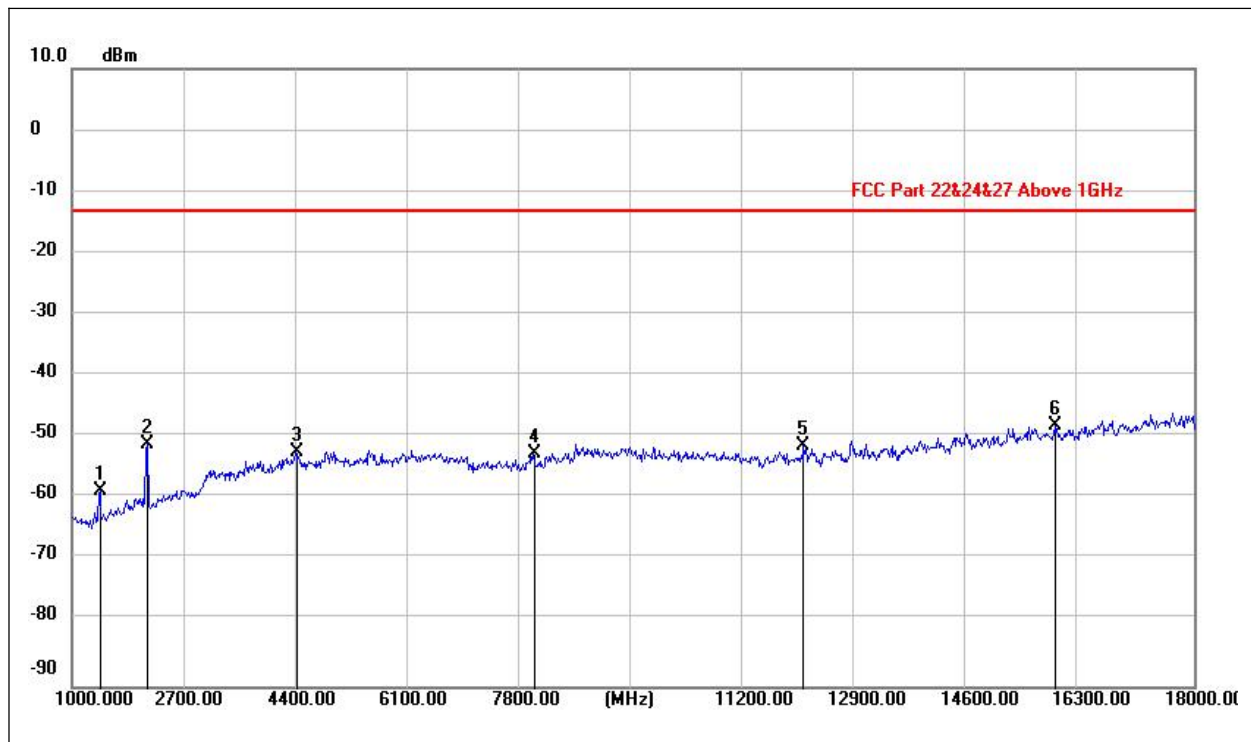
(LTE Band 12 _QPSK_ Middle Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1994.500	-58.94	-13.00	45.94	V	-0.79	PASS
4485.000	-52.65	-13.00	39.65	V	8.12	PASS
8999.350	-51.28	-13.00	38.28	V	13.14	PASS
12458.000	-51.08	-13.00	38.08	V	14.92	PASS
15762.800	-47.85	-13.00	34.85	V	20.64	PASS
17700.800	-46.24	-13.00	33.24	V	23.01	PASS



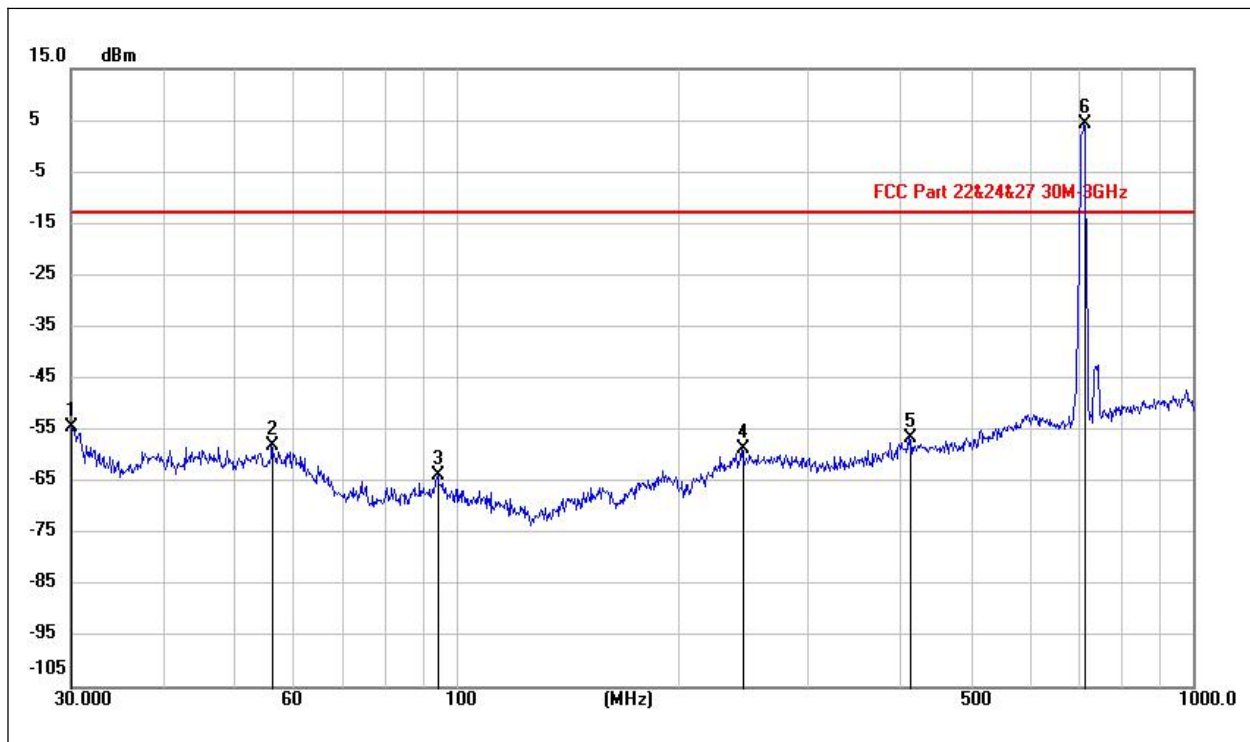
(LTE Band 12 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.0000	-60.47	-13.00	47.47	H	27.31	PASS
53.0754	-58.90	-13.00	45.90	H	30.04	PASS
99.7552	-65.69	-13.00	52.69	H	22.10	PASS
252.6379	-59.76	-13.00	46.76	H	28.95	PASS
395.4088	-56.54	-13.00	43.54	H	30.07	PASS
714.5491	-3.88	N/A	N/A	H	34.69	N/A



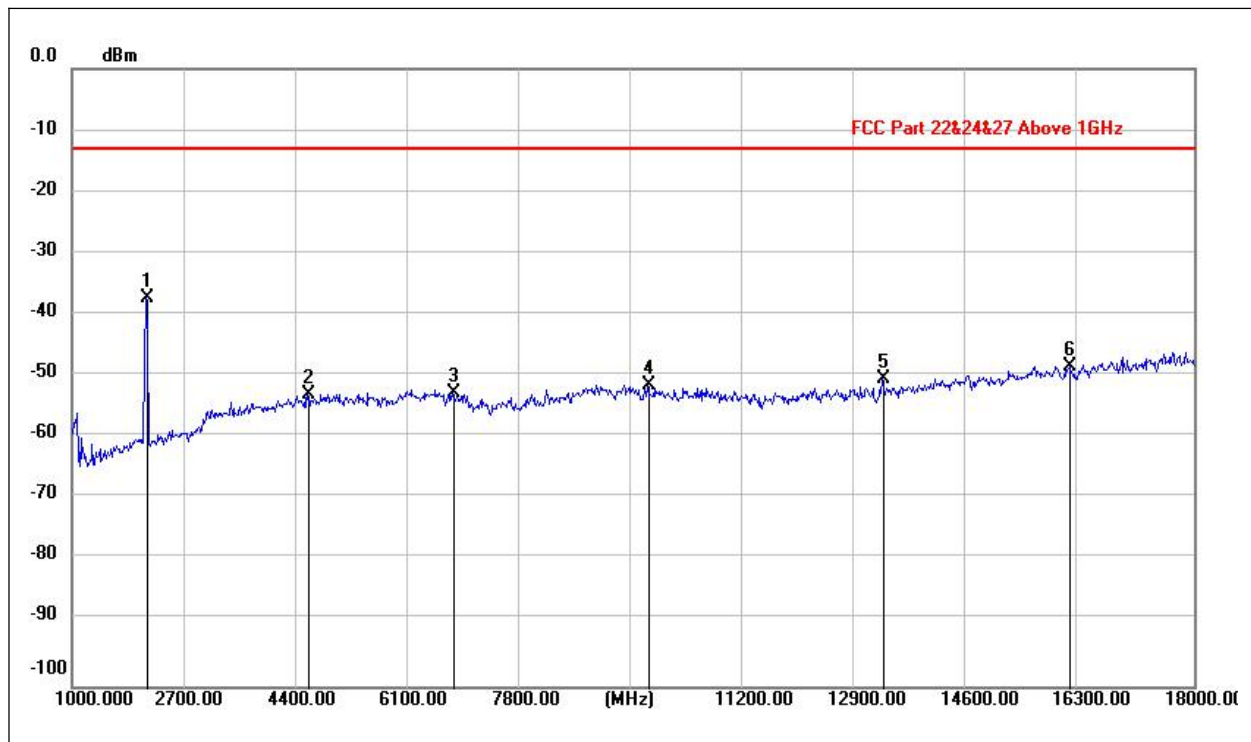
(LTE Band 12 _QPSK_ High Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1429.250	-58.11	-13.00	45.11	H	-4.10	PASS
2139.000	-50.80	-13.00	37.80	H	-1.03	PASS
4399.150	-52.02	-13.00	39.02	H	8.21	PASS
7992.100	-52.27	-13.00	39.27	H	11.01	PASS
12084.000	-50.99	-13.00	37.99	H	14.57	PASS
15903.050	-47.59	-13.00	34.59	H	21.28	PASS



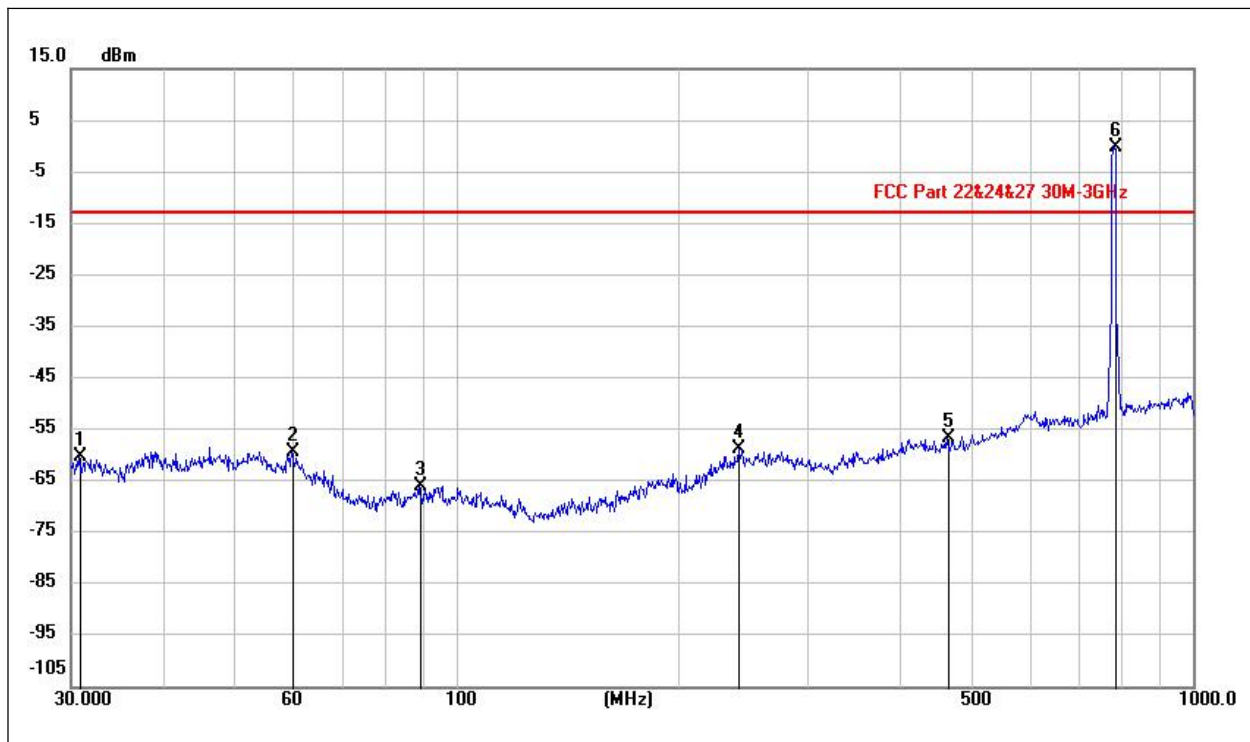
(LTE Band 12 _QPSK_ High Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.0000	-54.49	-13.00	41.49	V	19.51	PASS
56.2763	-58.24	-13.00	45.24	V	21.81	PASS
94.7435	-63.97	-13.00	50.97	V	27.06	PASS
245.0041	-58.69	-13.00	45.69	V	25.16	PASS
412.9809	-56.63	-13.00	43.63	V	30.22	PASS
712.5474	4.26	- N/A	N/A	V	35.40	N/A



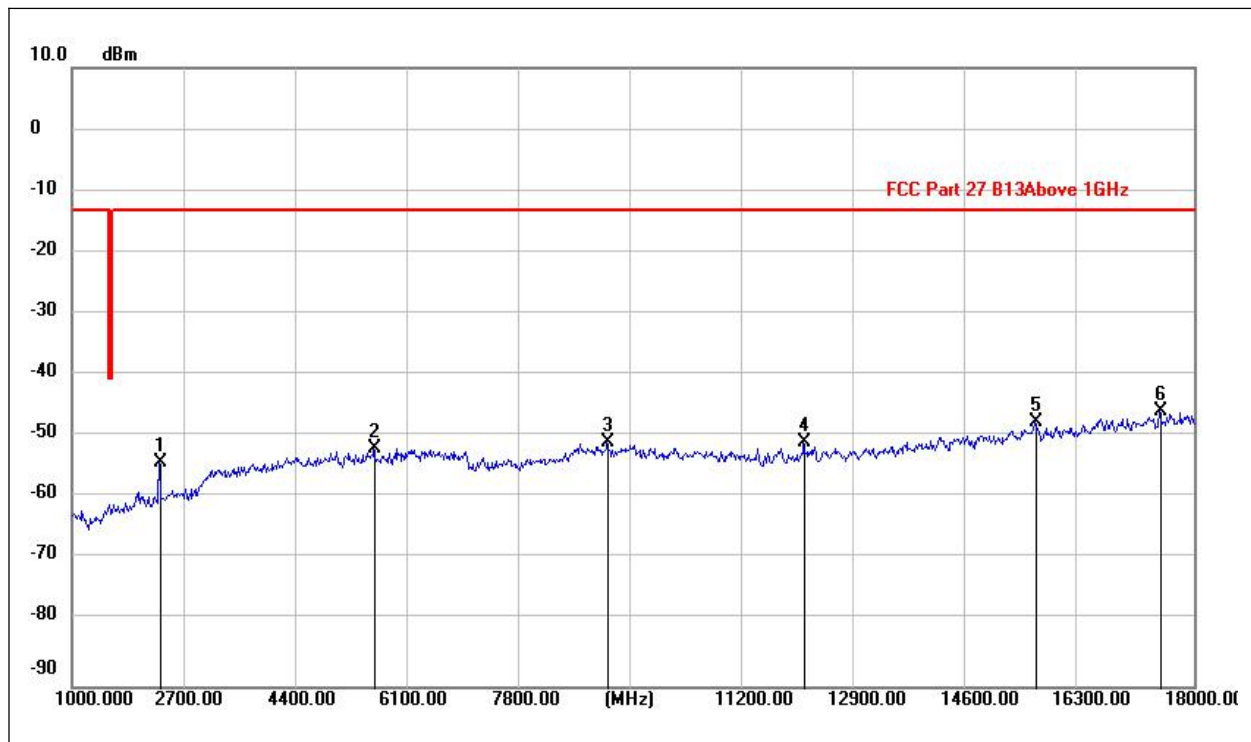
(LTE Band 12 _QPSK_ High Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2127.100	-37.04	-13.00	24.04	V	-1.17	PASS
4572.550	-52.73	-13.00	39.73	V	7.60	PASS
6776.600	-52.37	-13.00	39.37	V	47.01	PASS
9723.550	-51.10	-13.00	38.10	V	49.86	PASS
13282.500	-50.15	-13.00	37.15	V	64.01	PASS
16127.450	-48.00	-13.00	35.00	V	65.60	PASS



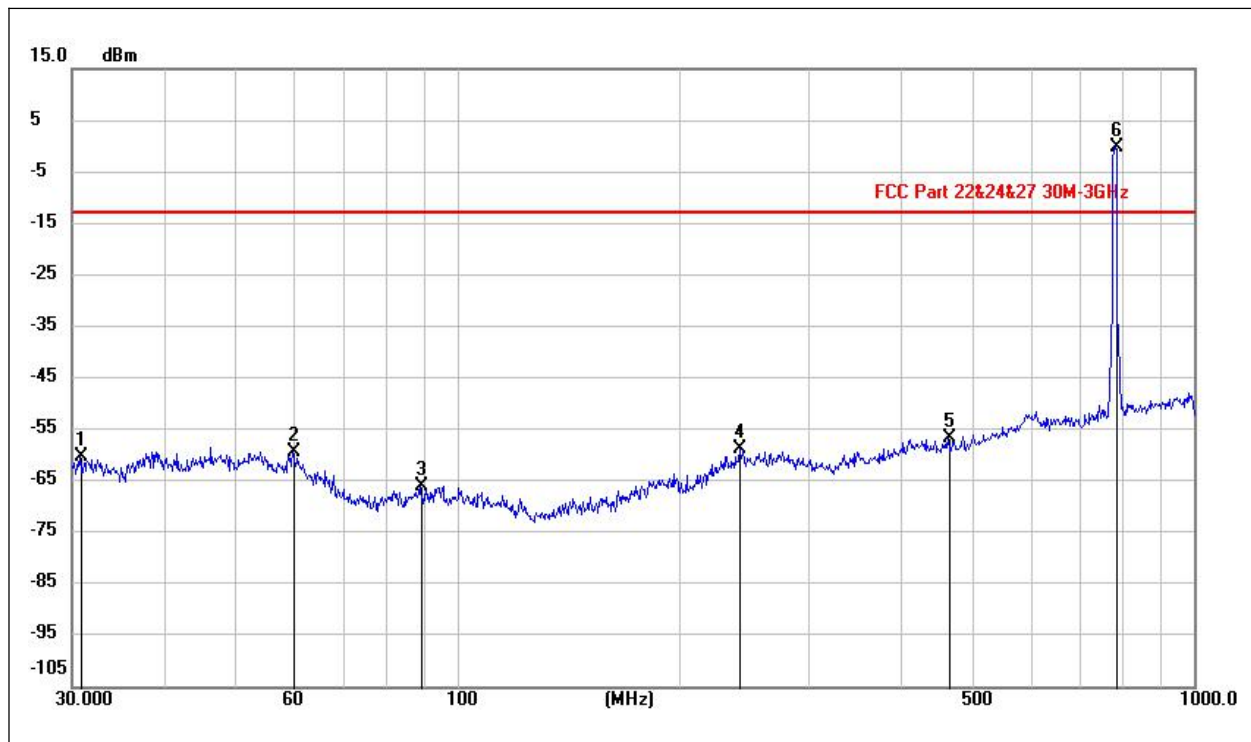
(LTE Band 13 _QPSK _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.7725	-60.24	-13.00	47.24	H	-60.24	PASS
59.9113	-59.46	-13.00	46.46	H	-59.46	PASS
89.2764	-65.89	-13.00	52.89	H	-65.89	PASS
241.8459	-58.86	-13.00	45.86	H	-58.86	PASS
464.3765	-56.48	-13.00	43.48	H	-56.48	PASS
782.8942	-0.09	N/A	N/A	H	-0.09	N/A



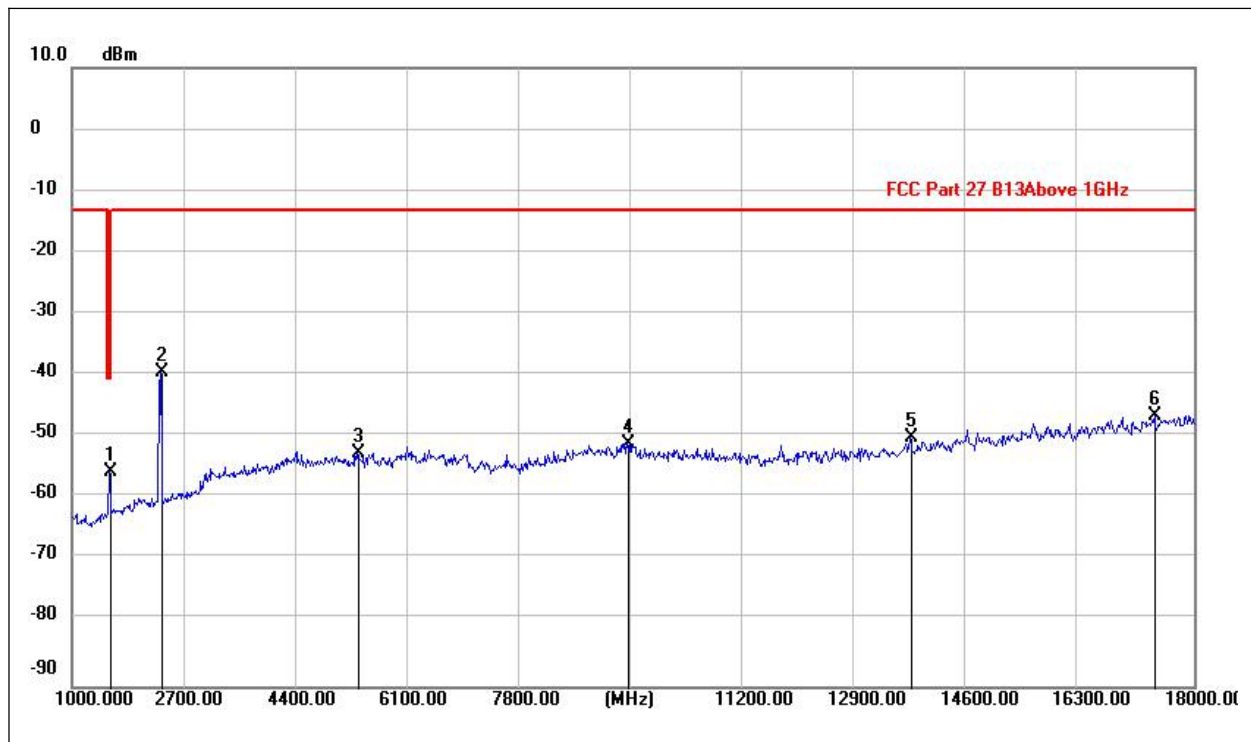
(LTE Band 13 _QPSK _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2333.650	-53.71	-13.00	40.71	H	-0.02	PASS
5585.750	-51.54	-13.00	38.54	H	9.24	PASS
9110.700	-50.45	-13.00	37.45	H	12.79	PASS
12092.500	-50.48	-13.00	37.48	H	14.52	PASS
15587.700	-47.07	-13.00	34.07	H	20.93	PASS
17475.550	-45.52	-13.00	32.52	H	23.88	PASS



(LTE Band 13 _QPSK _ 30MHz to 1GHz _ Vertical)

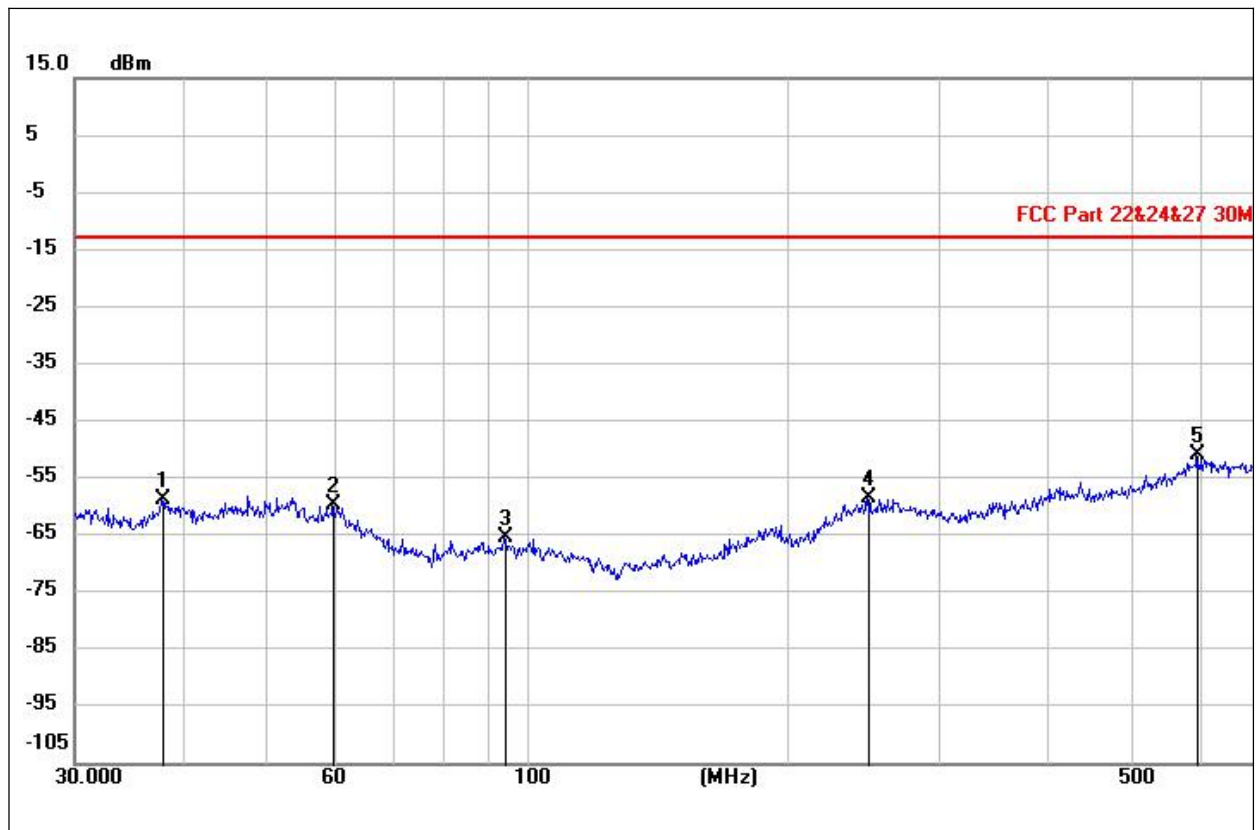
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.3864	-53.68	-13.00	40.68	V	19.65	PASS
57.4830	-58.42	-13.00	45.42	V	22.12	PASS
93.7192	-64.08	-13.00	51.08	V	26.28	PASS
251.1364	-58.39	-13.00	45.39	V	25.19	PASS
413.5606	-55.96	-13.00	42.96	V	30.24	PASS
785.7820	1.39	N/A	N/A	V	35.89	N/A



(LTE Band 13 _QPSK _ 1GHz to 18GHz _ Vertical)

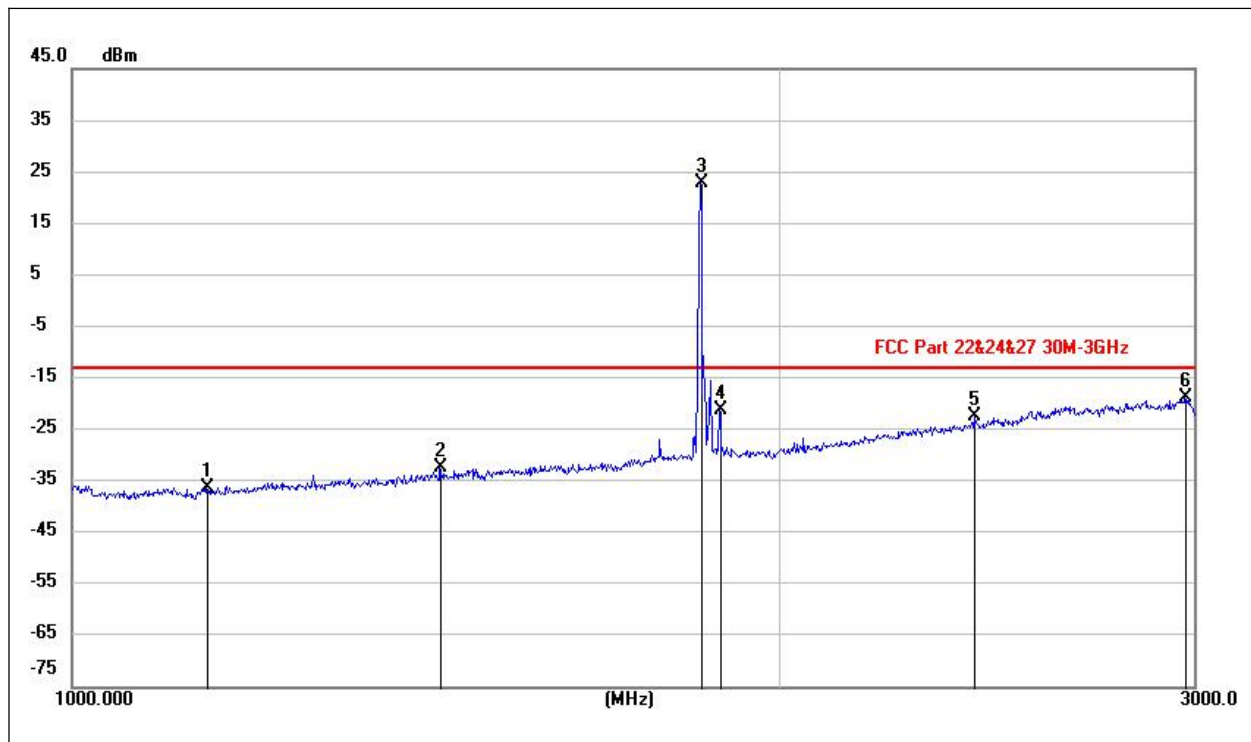
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1566.100	-55.14	-40.00	15.14	V	-3.44	PASS
2354.050	-39.22	-13.00	26.22	V	0.30	PASS
5334.150	-52.14	-13.00	39.14	V	8.61	PASS
9416.700	-50.64	-13.00	37.64	V	13.36	PASS
13699.850	-49.63	-13.00	36.63	V	17.03	PASS
17407.550	-46.24	-13.00	33.24	V	22.55	PASS

Note: The high, medium and low channel of LTE BAND13 are the same.



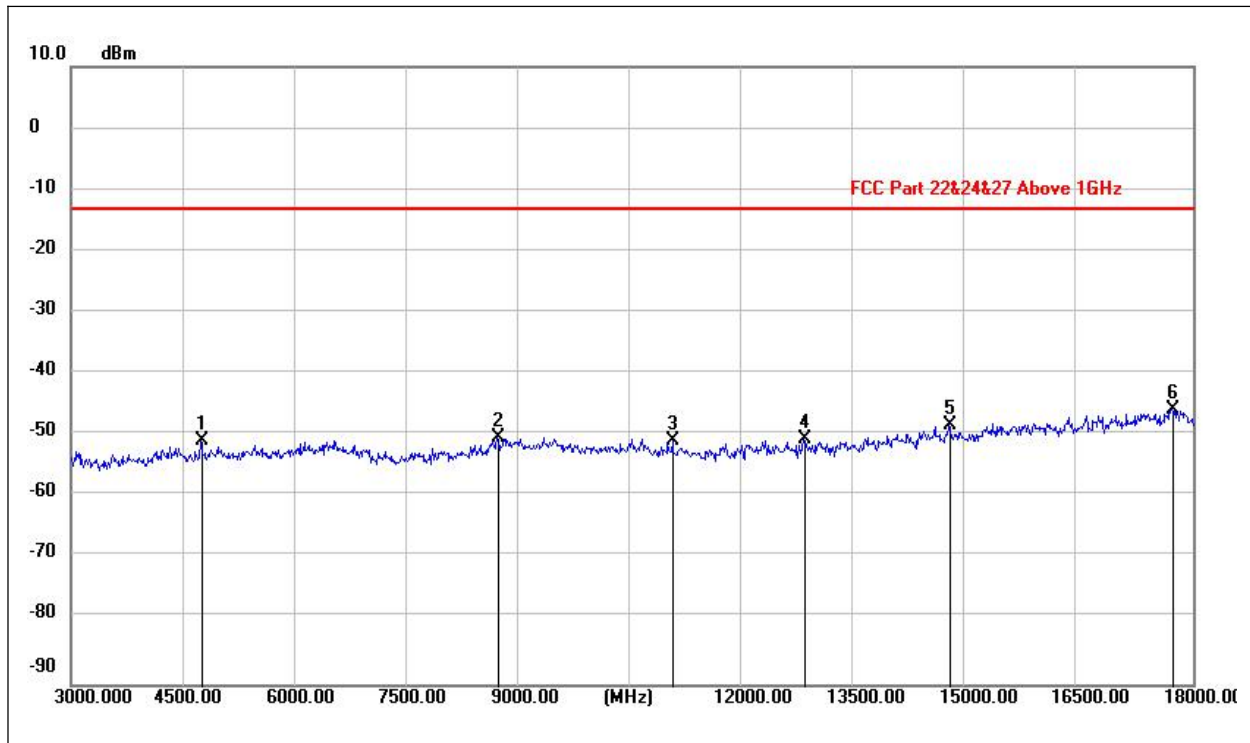
(LTE Band 25_QPSK_Low Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
37.8785	-58.62	-13.00	45.62	H	29.39	PASS
59.7016	-59.74	-13.00	46.74	H	28.87	PASS
94.1639	-65.46	-13.00	52.46	H	22.72	PASS
247.8991	-58.44	-13.00	45.44	H	28.92	PASS
595.6548	-50.84	-13.00	37.84	H	35.65	PASS
986.5905	-47.98	-13.00	34.98	H	39.40	PASS



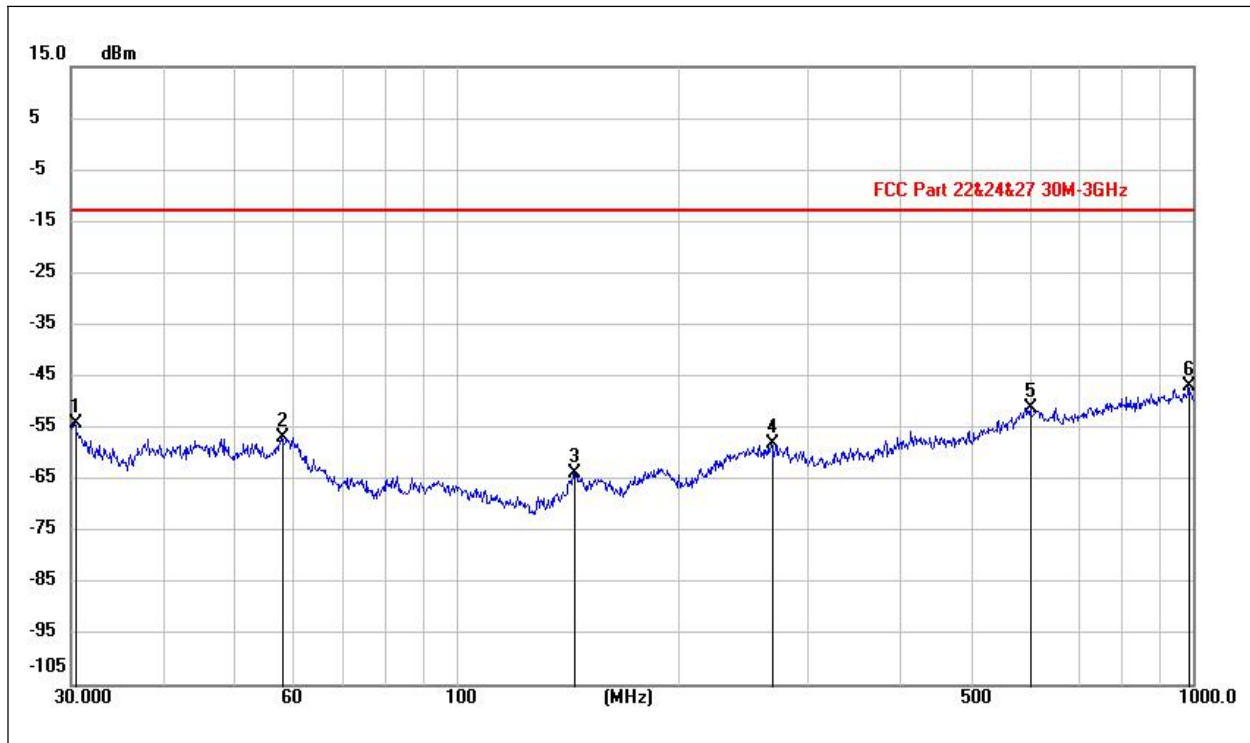
(LTE Band 25_QPSK_ Low Channel _ 1GHz to 3GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1141.796	-36.27	-13.00	23.27	H	40.18	PASS
1435.084	-32.45	-13.00	19.45	H	43.19	PASS
1851.085	22.78	N/A	N/A	H	46.42	N/A
1886.811	-21.16	-13.00	8.16	H	47.02	PASS
2421.224	-22.37	-13.00	9.37	H	51.61	PASS
2973.912	-18.86	-13.00	5.86	H	55.63	PASS



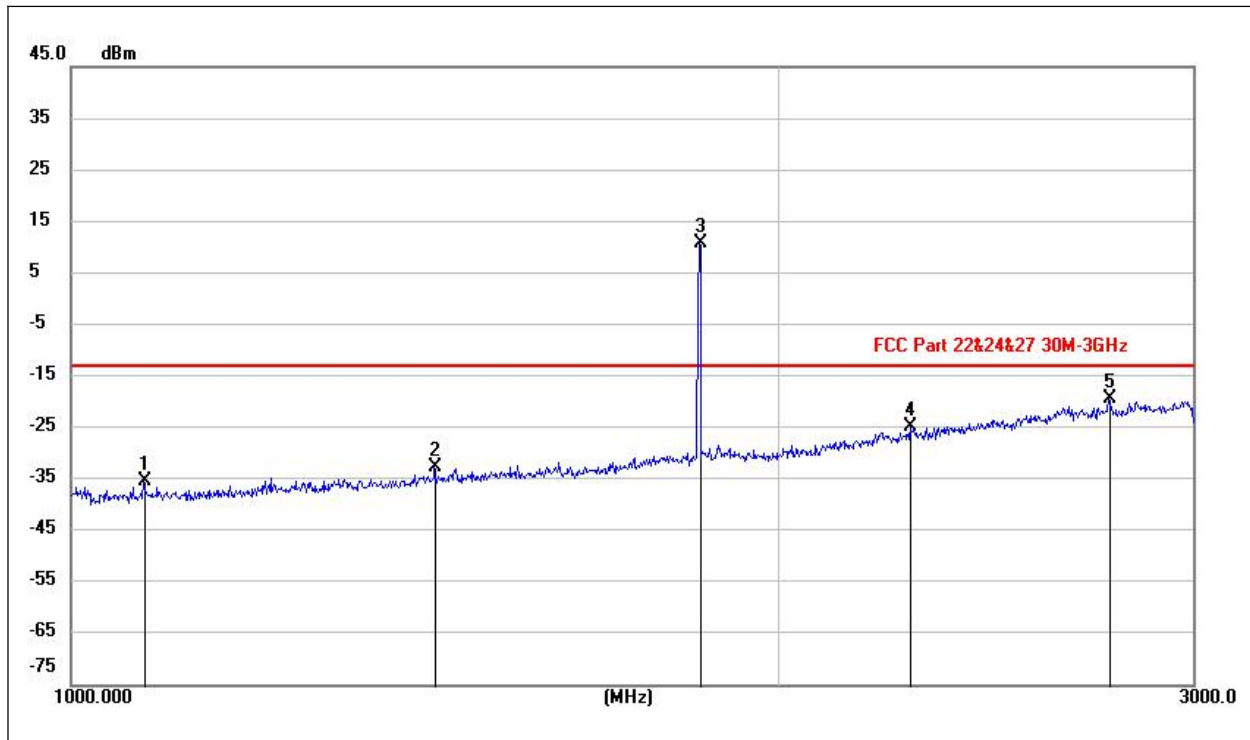
(LTE Band 25_QPSK_Low Channel _ 3GHz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4752.750	-50.52	-13.00	37.52	H	9.39	PASS
8705.250	-49.94	-13.00	36.94	H	13.54	PASS
11041.500	-50.55	-13.00	37.55	H	14.34	PASS
12807.750	-50.21	-13.00	37.21	H	16.81	PASS
14757.000	-48.03	-13.00	35.03	H	20.22	PASS
17727.000	-45.31	-13.00	32.31	H	25.75	PASS



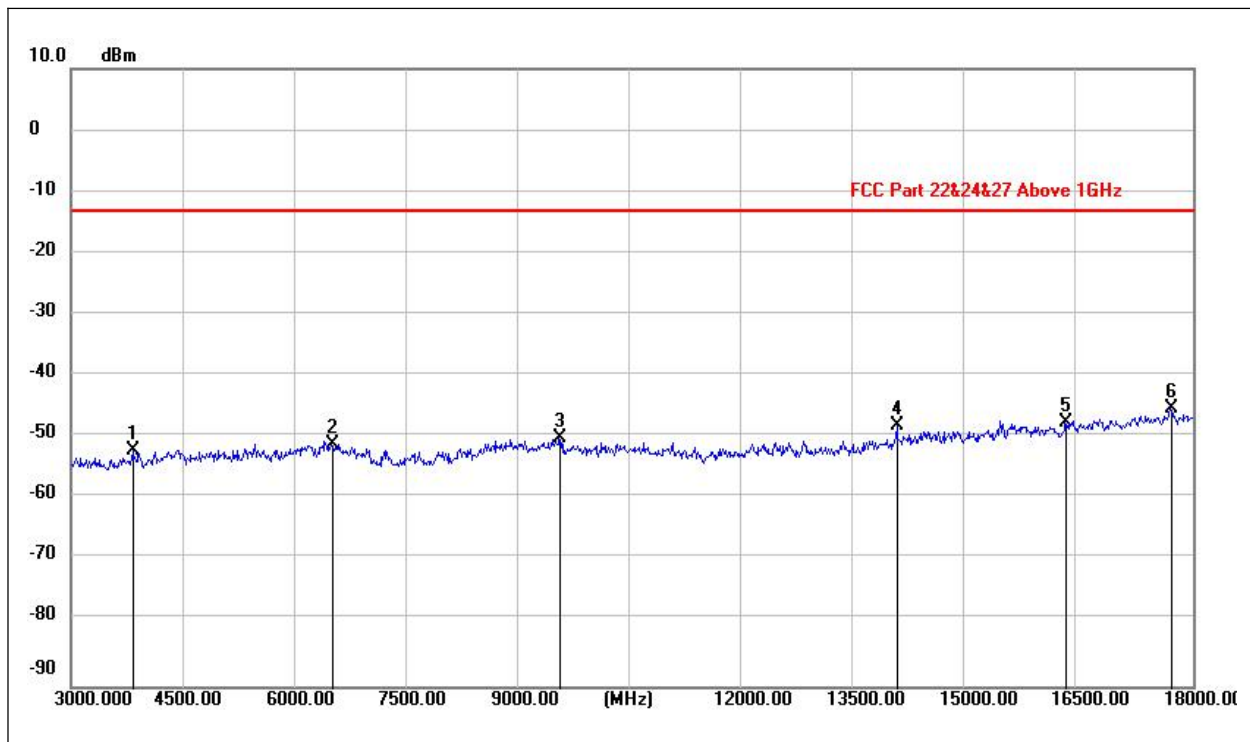
(LTE Band 25_QPSK_ Low Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.4238	-54.11	-13.00	41.11	V	19.66	PASS
58.1214	-56.82	-13.00	43.82	V	22.52	PASS
144.7656	-63.87	-13.00	50.87	V	23.56	PASS
268.2030	-58.17	-13.00	45.17	V	25.84	PASS
601.7430	-51.04	-13.00	38.04	V	34.31	PASS
988.6684	-47.03	-13.00	34.03	V	39.03	PASS



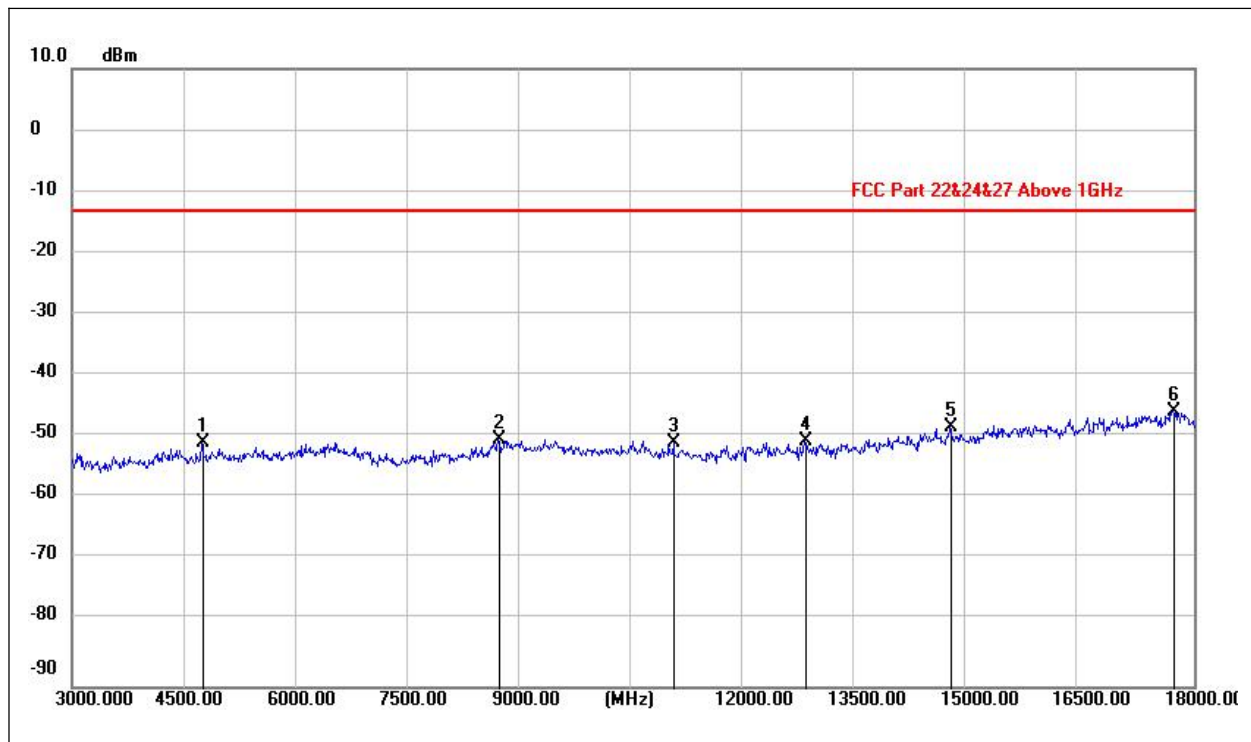
(LTE Band 25_QPSK_ Low Channel _ 1GHz to 3GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1075.084	-35.48	-13.00	22.48	V	40.01	PASS
1428.164	-32.78	-13.00	19.78	V	42.59	PASS
1851.085	10.84	N/A	N/A	V	46.29	N/A
2276.379	-24.80	-13.00	11.80	V	50.29	PASS
2763.784	-19.35	-13.00	6.35	V	54.22	PASS



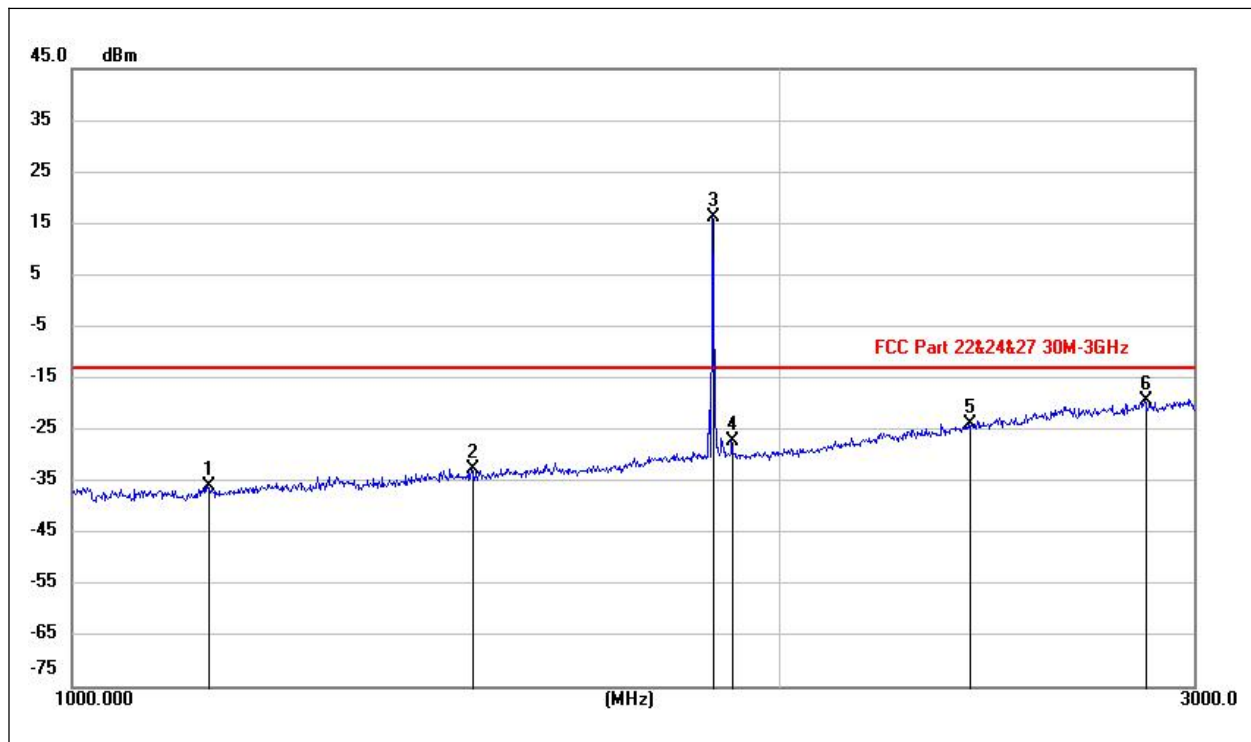
(LTE Band 25_QPSK_ Low Channel _ 3GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3839.250	-51.64	-13.00	38.64	V	7.86	PASS
6493.500	-50.62	-13.00	37.62	V	11.53	PASS
9526.500	-49.75	-13.00	36.75	V	14.60	PASS
14051.250	-47.70	-13.00	34.70	V	19.20	PASS
16295.250	-47.16	-13.00	34.16	V	22.41	PASS
17709.750	-44.94	-13.00	31.94	V	24.30	PASS



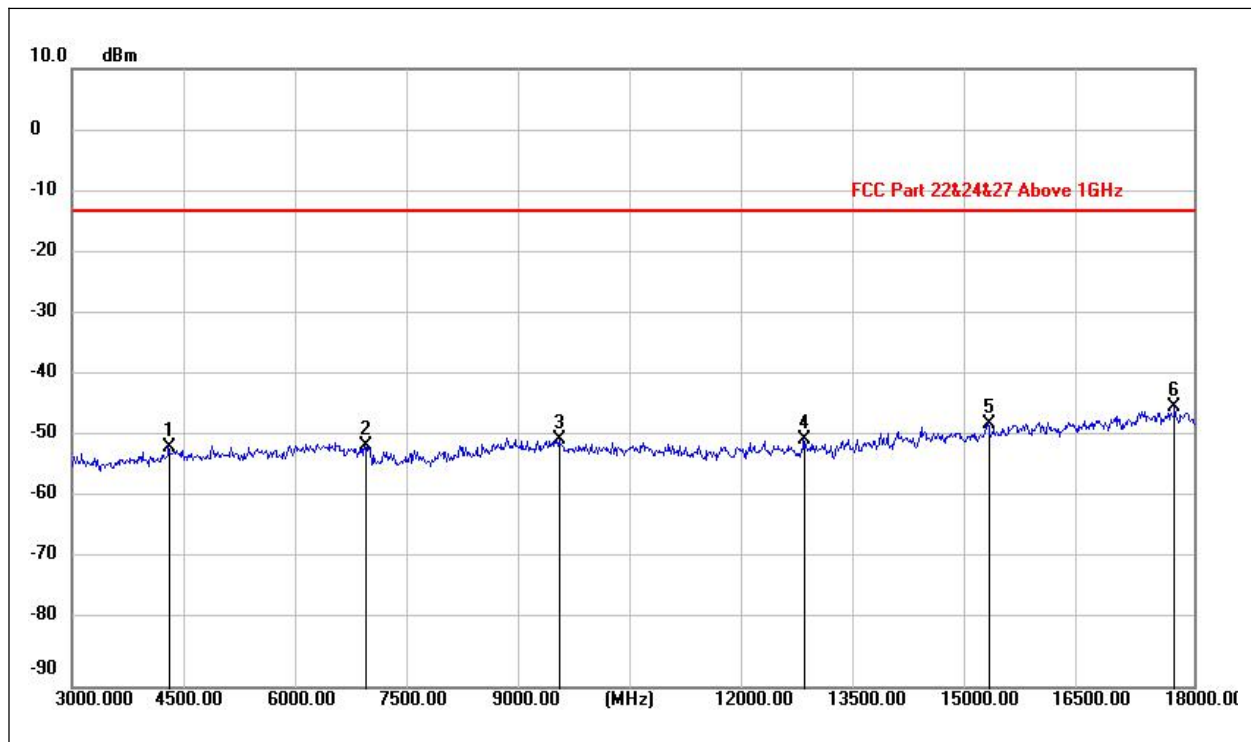
(LTE Band 25_QPSK_ Middle Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.3385	-60.47	-13.00	47.47	H	27.53	PASS
53.2152	-58.79	-13.00	45.79	H	30.01	PASS
94.5941	-64.67	-13.00	51.67	H	22.77	PASS
278.0669	-58.37	-13.00	45.37	H	28.66	PASS
591.6995	-51.90	-13.00	38.90	H	35.27	PASS
947.7634	-47.13	-13.00	34.13	H	38.96	PASS



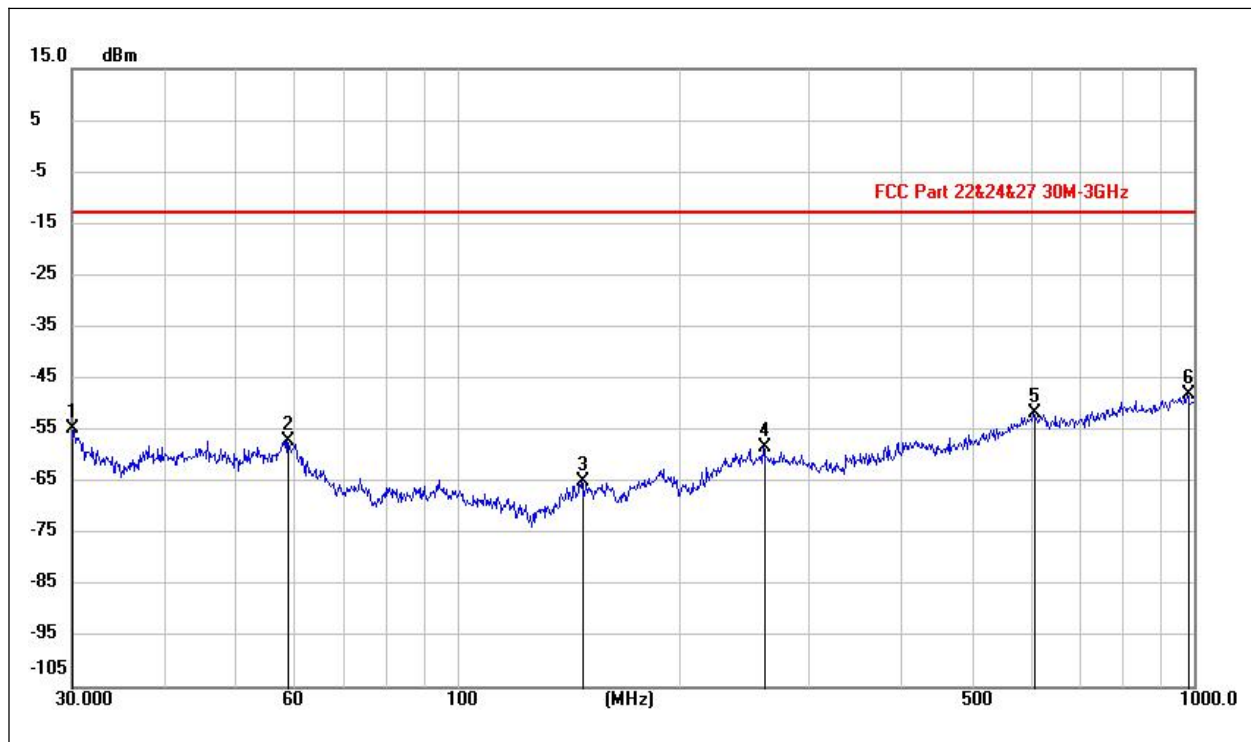
(LTE Band 25_QPSK_ Middle Channel _ 1GHz to 3GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1142.988	-35.84	-13.00	22.84	H	40.28	PASS
1480.078	-32.66	-13.00	19.66	H	43.75	PASS
1873.797	16.11	N/A	N/A	H	46.64	N/A
1909.122	-27.11	-13.00	14.11	H	47.33	PASS
2407.431	-23.78	-13.00	10.78	H	51.37	PASS
2860.003	-19.43	-13.00	6.43	H	54.78	PASS



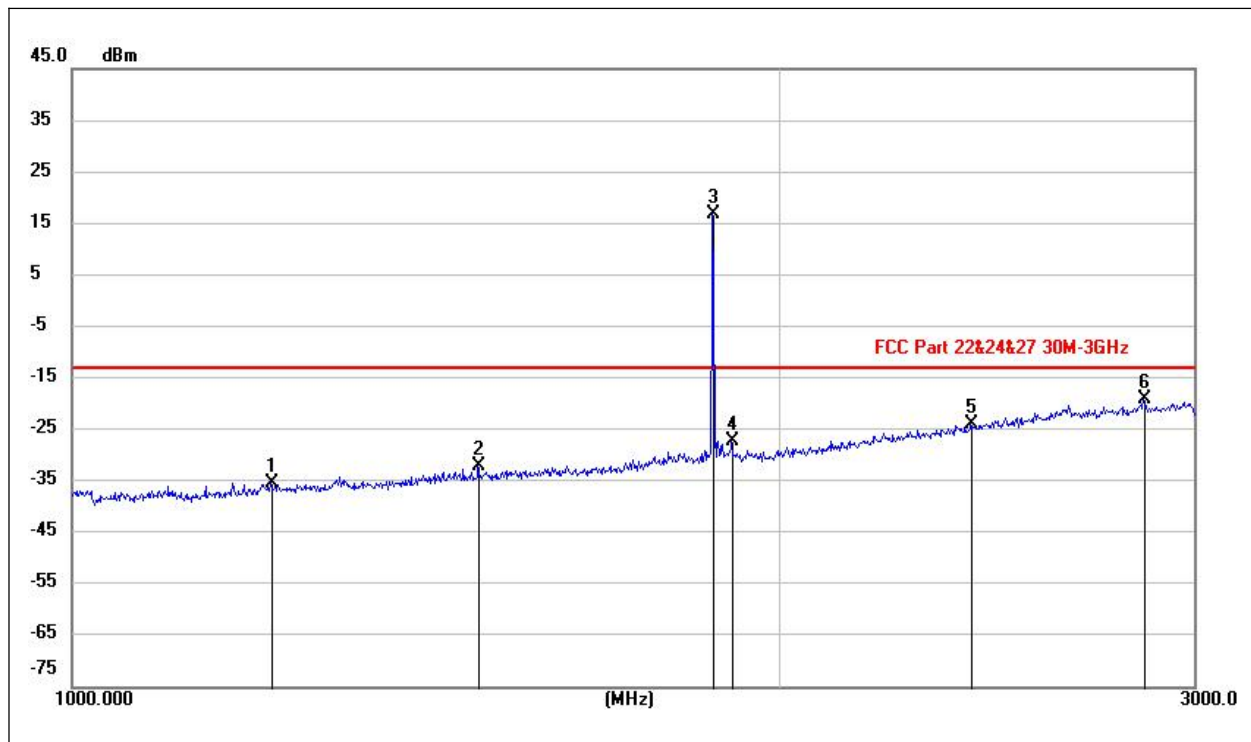
(LTE Band 25_QPSK_ Middle Channel _ 3GHz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4299.000	-51.12	-13.00	38.12	H	9.17	PASS
6920.250	-50.86	-13.00	37.86	H	10.96	PASS
9522.750	-50.04	-13.00	37.04	H	14.35	PASS
12792.750	-49.80	-13.00	36.80	H	16.90	PASS
15249.000	-47.29	-13.00	34.29	H	21.01	PASS
17745.000	-44.55	-13.00	31.55	H	26.12	PASS



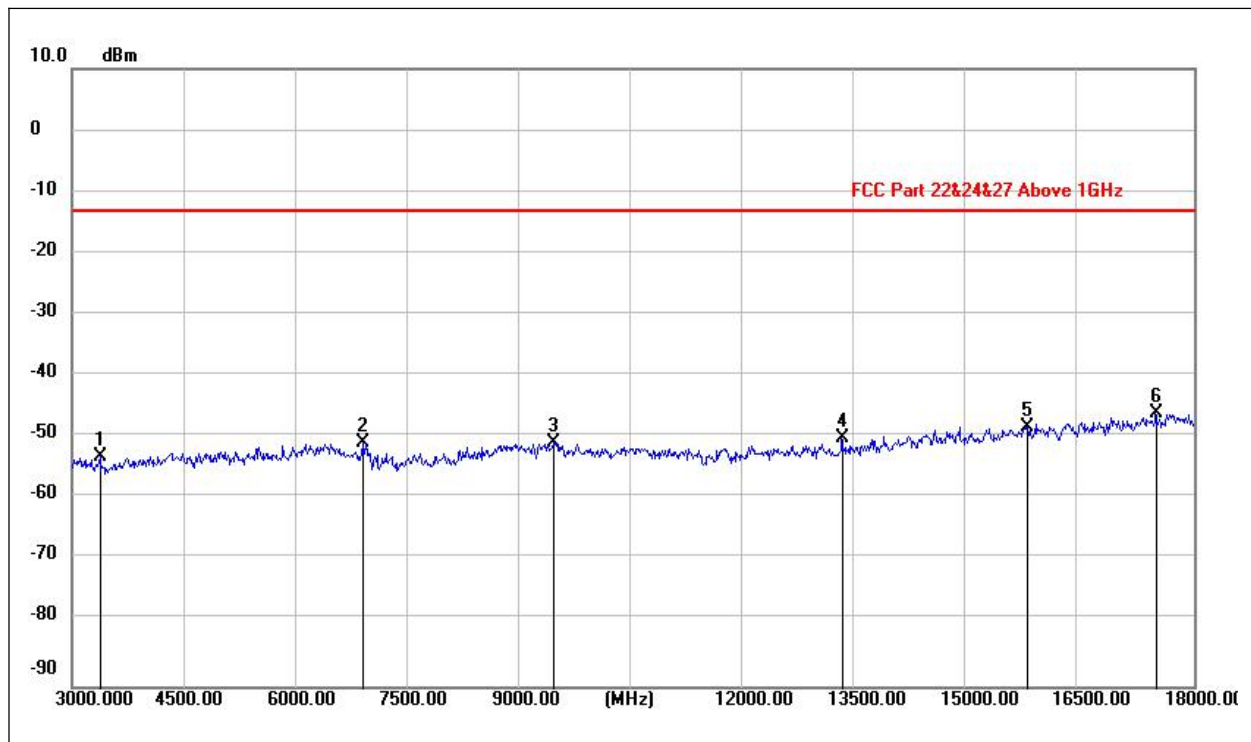
(LTE Band 25_QPSK_ Middle Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.0000	-54.73	-13.00	41.73	V	19.51	PASS
58.9011	-57.31	-13.00	44.31	V	23.24	PASS
147.6105	-65.12	-13.00	52.12	V	22.96	PASS
260.4183	-58.43	-13.00	45.43	V	25.58	PASS
607.0413	-51.93	-13.00	38.93	V	34.32	PASS
981.2427	-48.06	-13.00	35.06	V	39.03	PASS



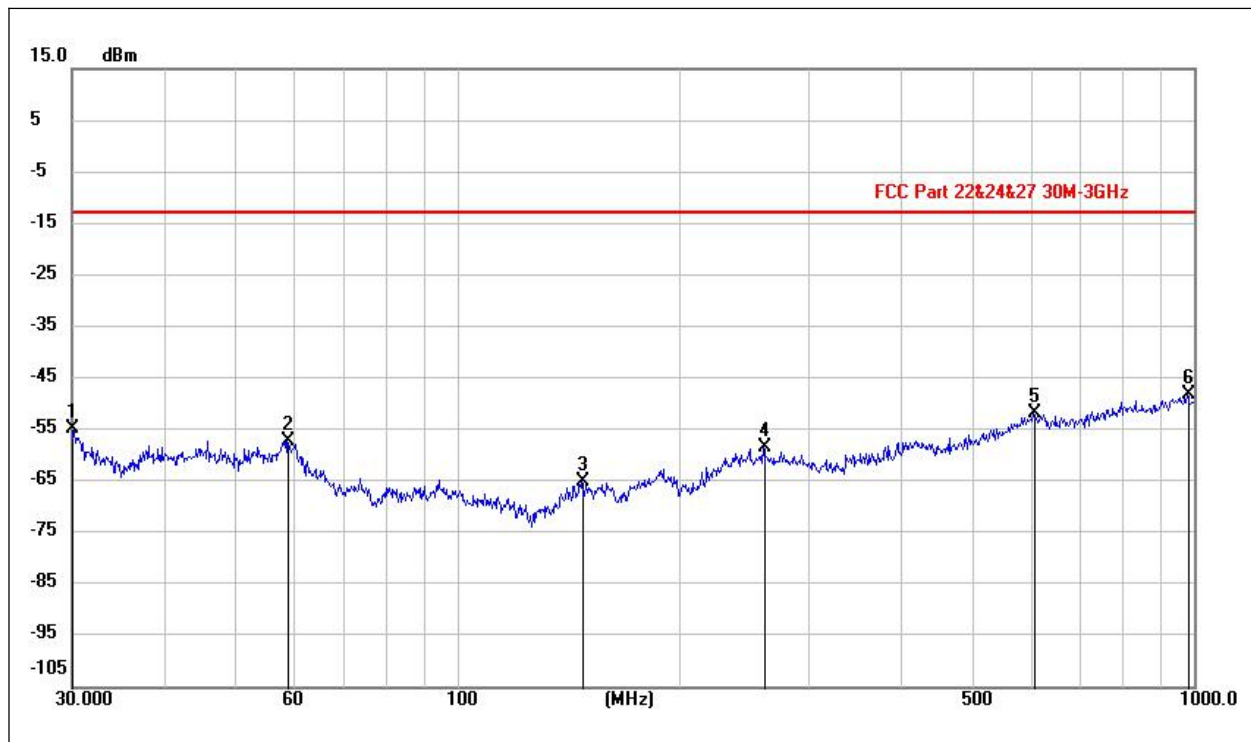
(LTE Band 25_QPSK_ Middle Channel _ 1GHz to 3GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1215.516	-35.36	-13.00	22.36	V	41.05	PASS
1489.457	-32.09	-13.00	19.09	V	43.85	PASS
1873.694	16.83	-N/A	N/A	V	46.64	N/A
1909.646	-27.07	-13.00	14.07	V	47.32	PASS
2412.992	-23.83	-13.00	10.83	V	51.43	PASS
2857.177	-19.00	-13.00	6.00	V	54.69	PASS



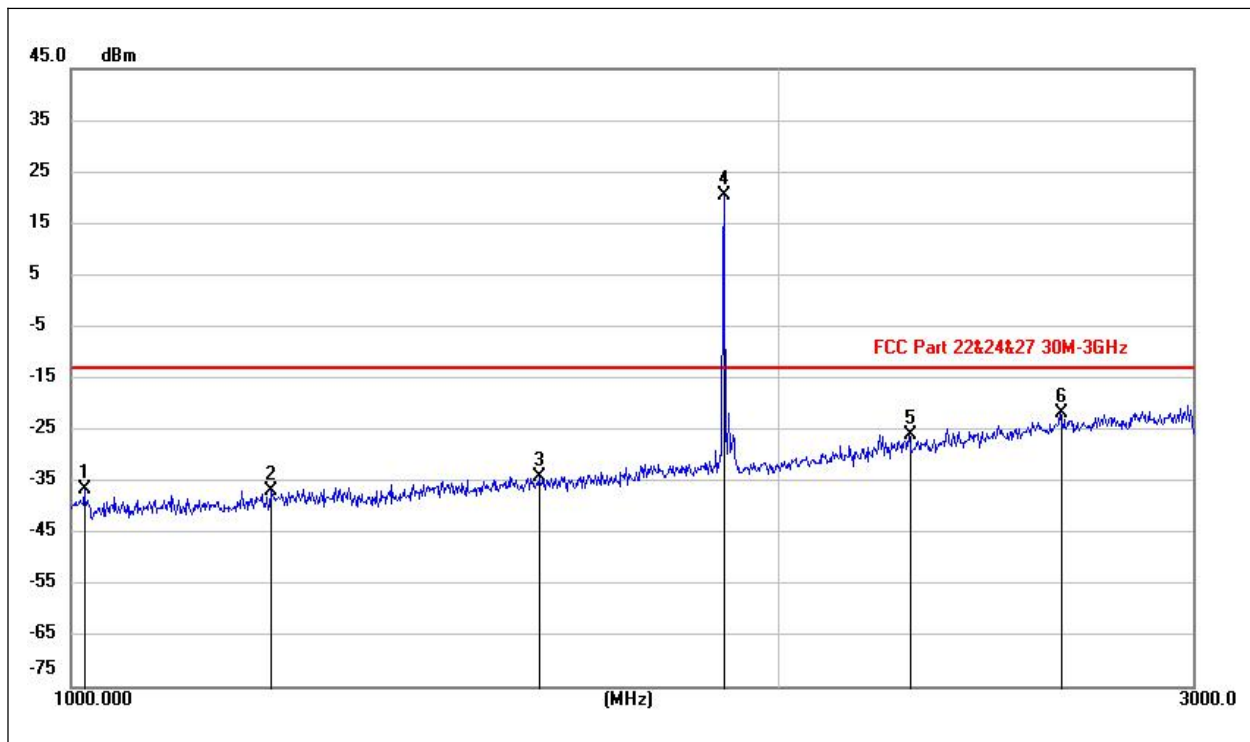
(LTE Band 25_QPSK_ Middle Channel _ 3GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
3388.500	-52.72	-13.00	39.72	V	6.78	PASS
6894.750	-50.42	-13.00	37.42	V	10.54	PASS
9435.000	-50.39	-13.00	37.39	V	14.63	PASS
13298.250	-49.64	-13.00	36.64	V	16.97	PASS
15762.000	-47.91	-13.00	34.91	V	21.82	PASS
17498.250	-45.72	-13.00	32.72	V	23.82	PASS



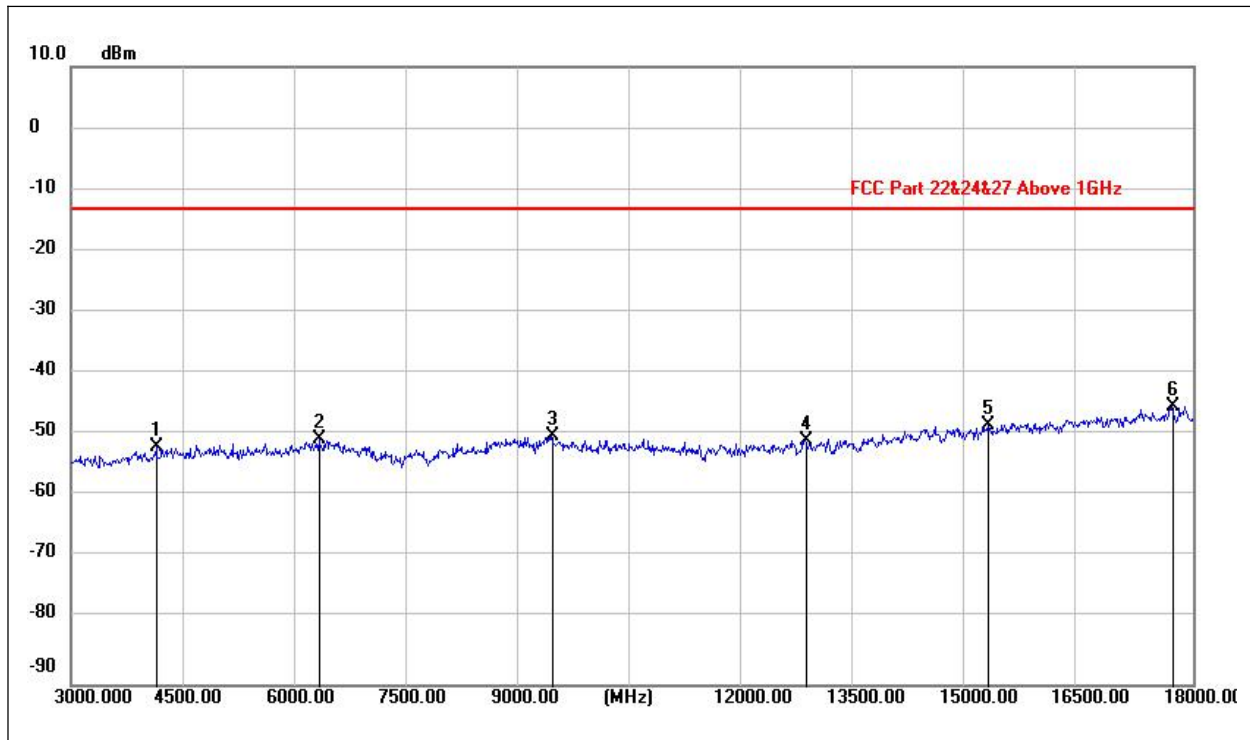
(LTE Band 25_QPSK_ High Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
33.1240	-59.62	-13.00	46.62	H	27.48	PASS
52.7878	-58.66	-13.00	45.66	H	30.04	PASS
94.2795	-64.91	-13.00	51.91	H	22.75	PASS
241.4646	-58.41	-13.00	45.41	H	28.56	PASS
594.5072	-50.26	-13.00	37.26	H	35.58	PASS
984.8622	-46.80	-13.00	33.80	H	39.42	PASS



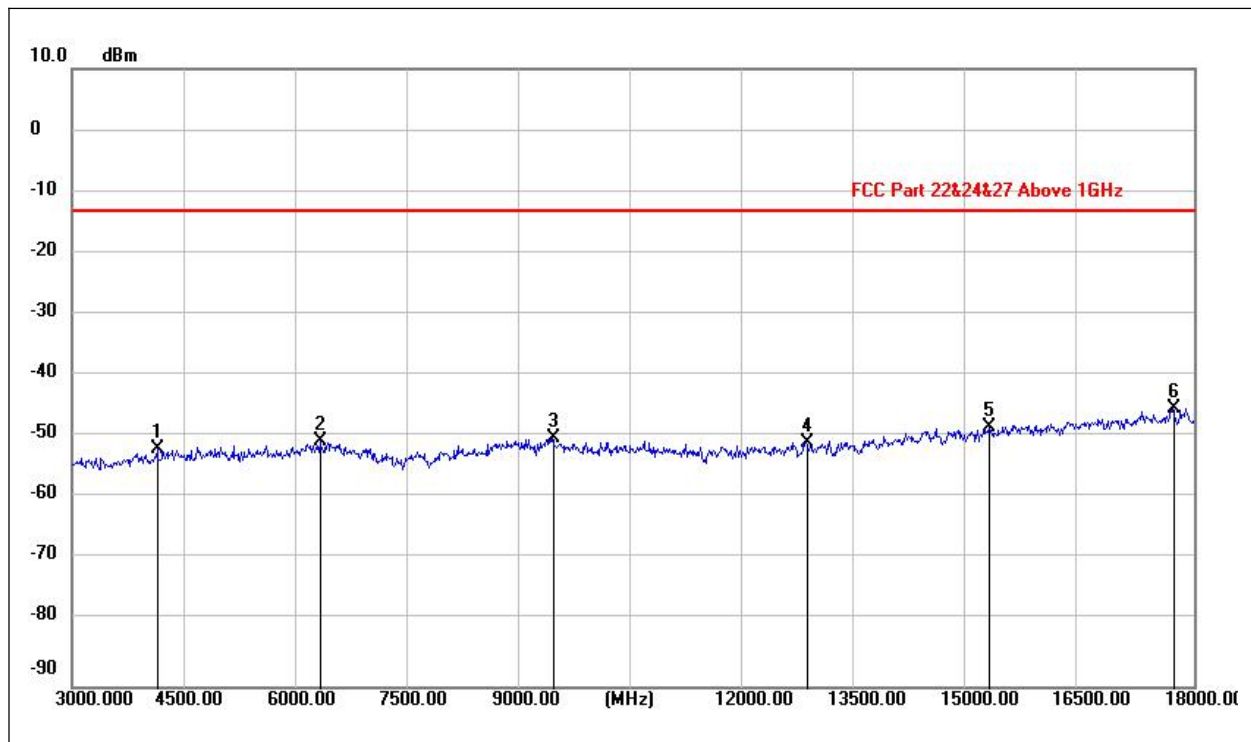
(LTE Band 25_QPSK_ High Channel _ 1GHz to 3GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1014.329	-36.45	-13.00	23.45	H	38.77	PASS
1215.983	-36.74	-13.00	23.74	H	41.44	PASS
1581.101	-34.10	-13.00	21.10	H	44.22	PASS
1896.162	20.52	N/A	N/A	H	47.13	N/A
2273.630	-25.90	-13.00	12.90	H	50.21	PASS
2637.852	-21.64	-13.00	8.64	H	53.87	PASS



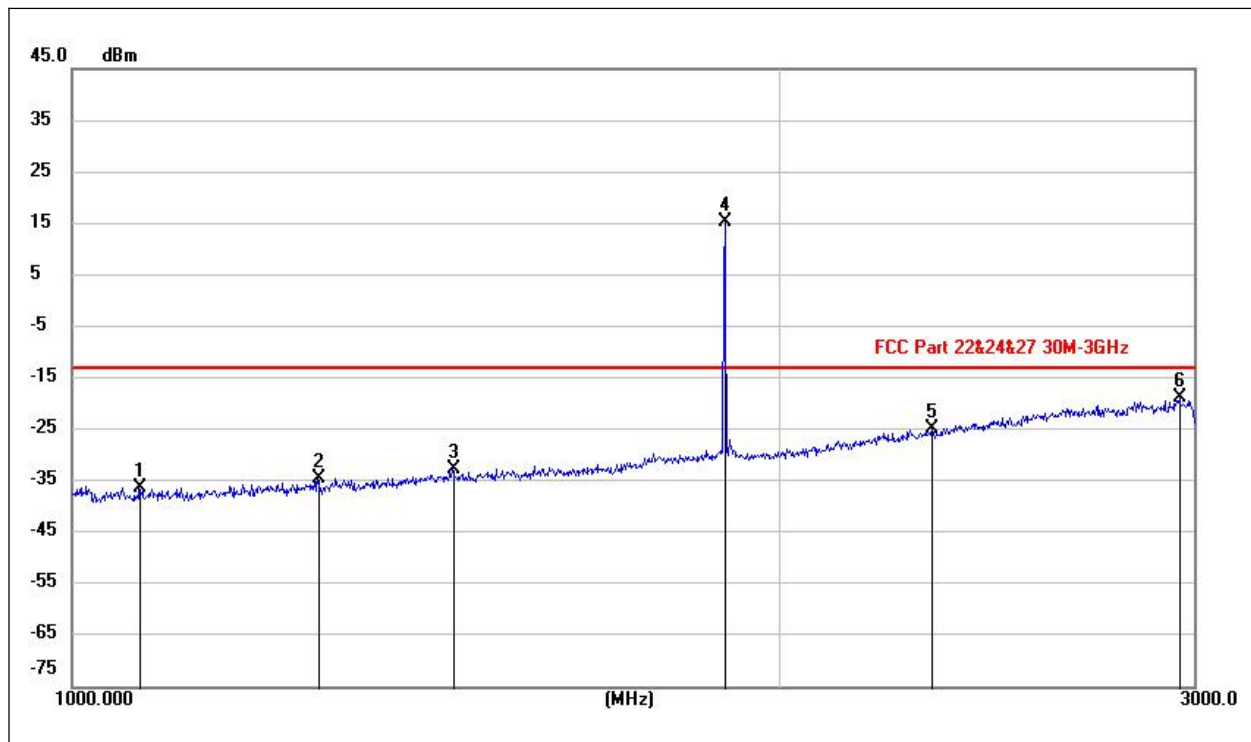
(LTE Band 25_QPSK_ High Channel _ 1GHz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4140.000	-51.52	-13.00	38.52	H	8.65	PASS
6321.000	-50.17	-13.00	37.17	H	11.23	PASS
9426.750	-49.75	-13.00	36.75	H	14.38	PASS
12811.500	-50.48	-13.00	37.48	H	16.79	PASS
15257.250	-47.89	-13.00	34.89	H	21.02	PASS
17715.750	-44.81	-13.00	31.81	H	25.52	PASS



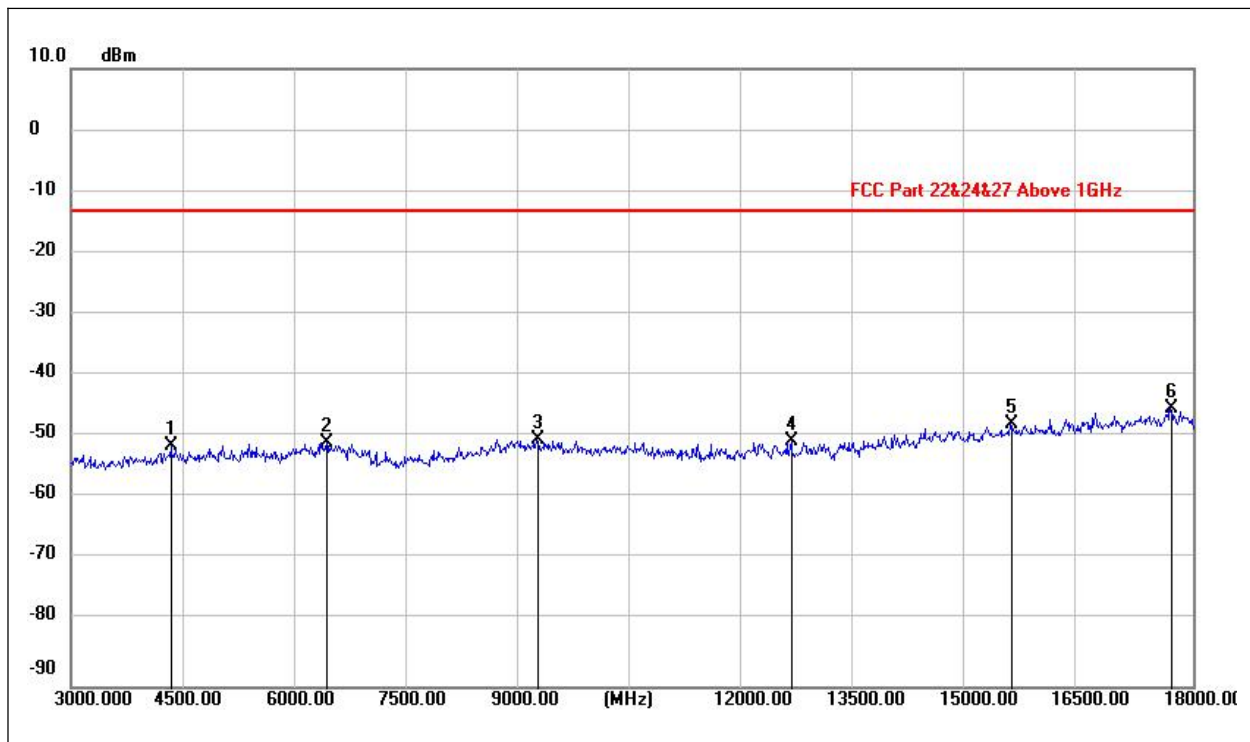
(LTE Band 25_QPSK_High Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.3918	-54.95	-13.00	41.95	V	19.65	PASS
59.2221	-56.82	-13.00	43.82	V	23.55	PASS
149.1715	-64.56	-13.00	51.56	V	22.92	PASS
276.5596	-57.66	-13.00	44.66	V	26.61	PASS
618.2116	-51.45	-13.00	38.45	V	34.29	PASS
988.6684	-47.75	-13.00	34.75	V	39.03	PASS



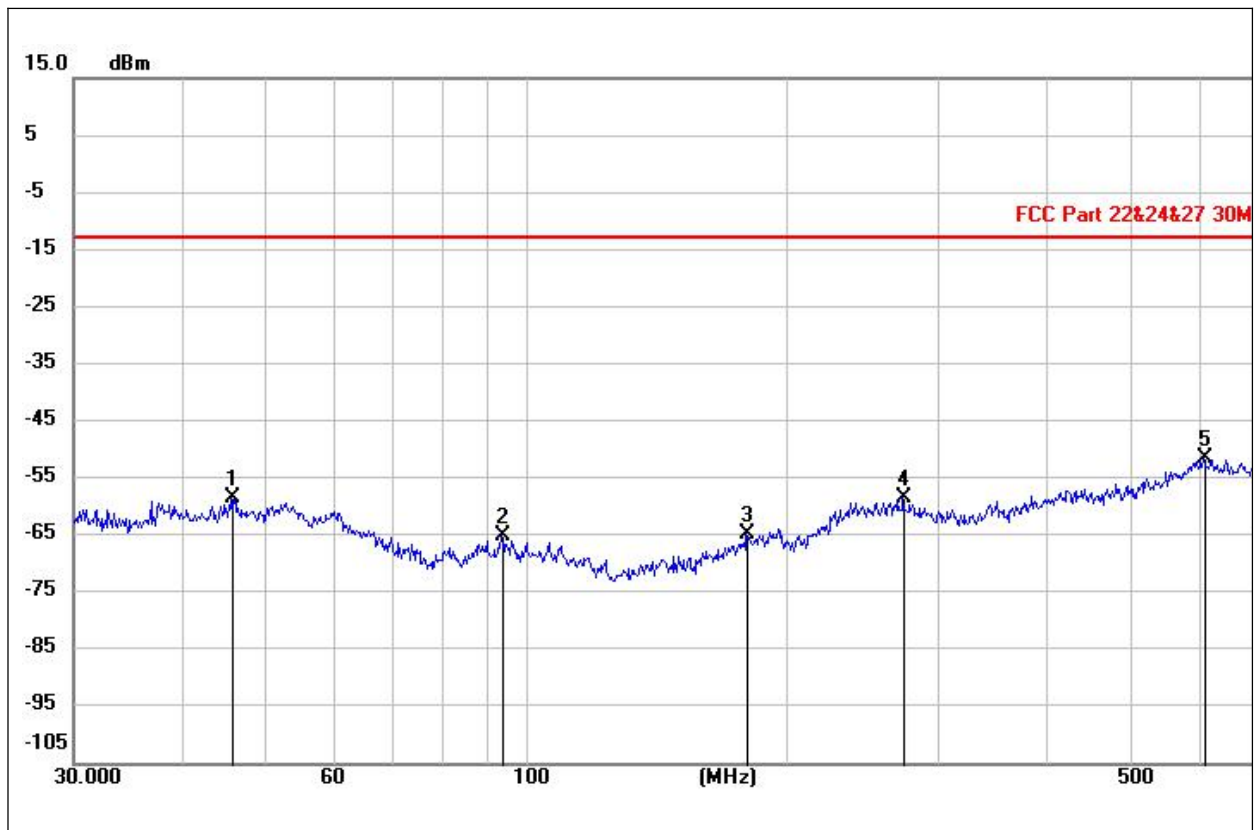
(LTE Band 25_QPSK_ High Channel _ 1GHz to 3GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1068.607	-36.14	-13.00	23.14	V	40.03	PASS
1272.357	-34.56	-13.00	21.56	V	41.92	PASS
1451.894	-32.65	-13.00	19.65	V	43.54	PASS
1896.162	15.22	N/A	N/A	V	47.08	N/A
2322.480	-24.67	-13.00	-11.67	V	50.82	PASS
2958.271	-18.63	-13.00	-5.63	V	55.80	PASS



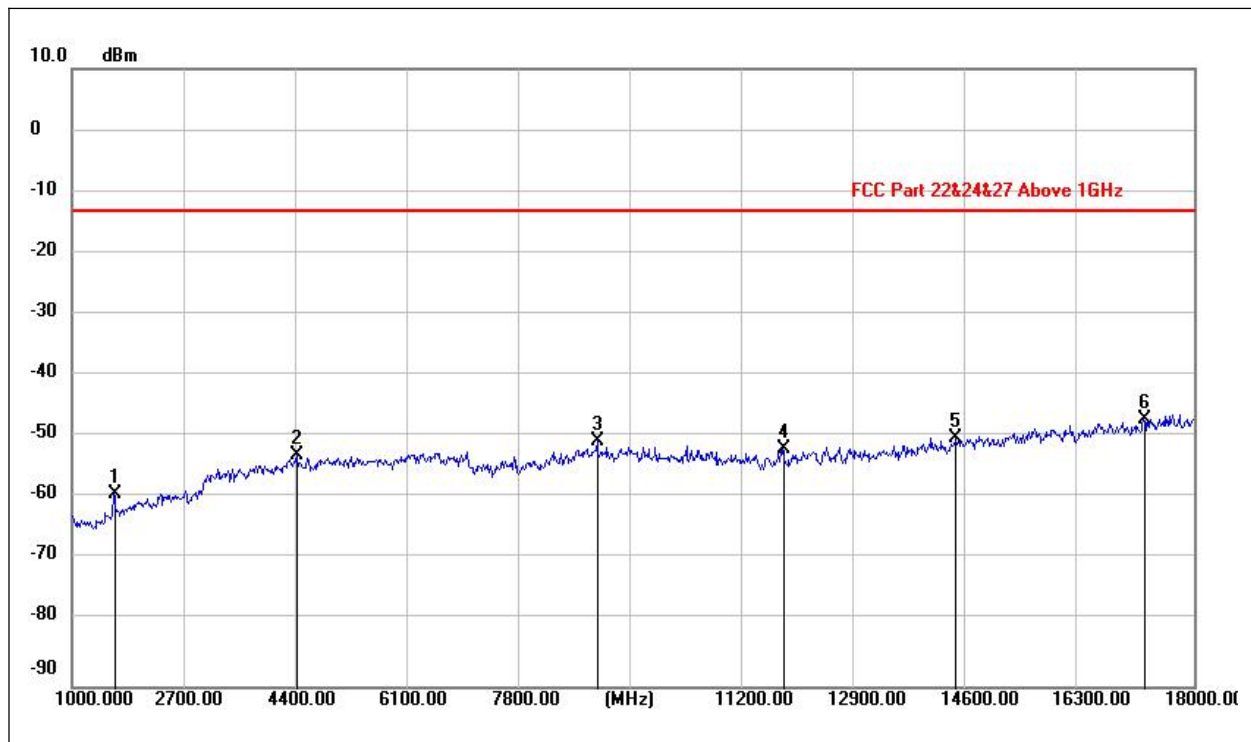
(LTE Band 25_QPSK_High Channel _ 3GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4347.000	-51.05	-13.00	38.05	V	9.29	PASS
6420.000	-50.40	-13.00	37.40	V	11.00	PASS
9238.500	-49.98	-13.00	36.98	V	14.70	PASS
12630.750	-50.27	-13.00	37.27	V	16.43	PASS
15565.500	-47.43	-13.00	34.43	V	21.60	PASS
17706.750	-44.84	-13.00	31.84	V	24.24	PASS



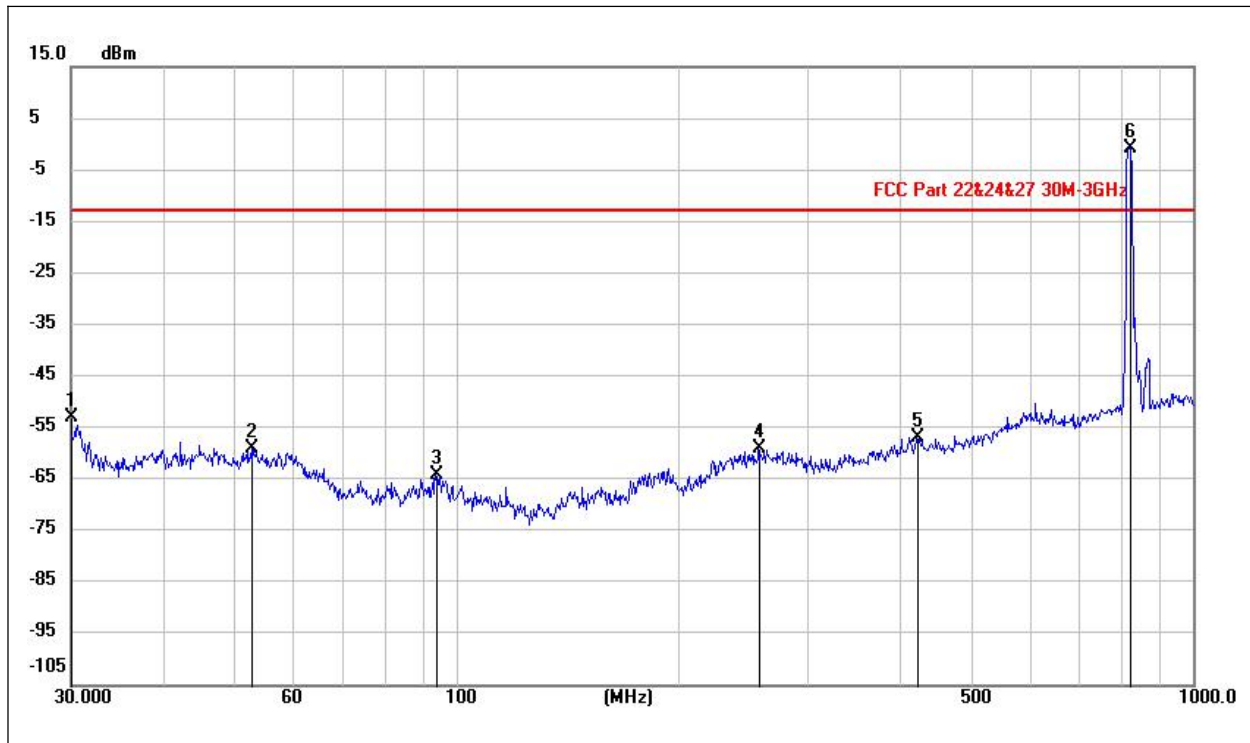
(LTE Band 26_QPSK_Low Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
45.7670	-58.45	-13.00	45.45	H	29.63	PASS
93.8507	-65.12	-13.00	52.12	H	22.56	PASS
180.2060	-64.89	-13.00	51.89	H	23.12	PASS
273.6176	-58.46	-13.00	45.46	H	28.99	PASS
608.8533	-51.58	-13.00	38.58	H	35.45	PASS
821.5664	5.03	N/A	N/A	H	37.23	N/A



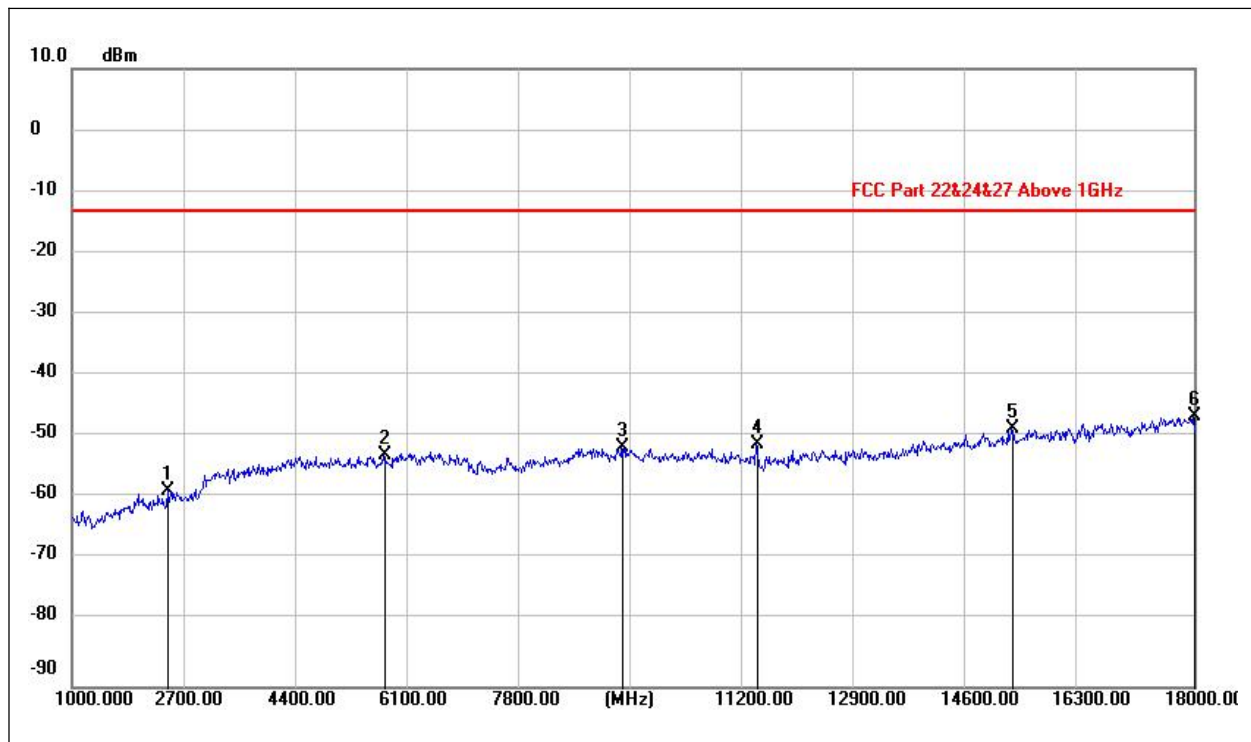
(LTE Band 26_QPSK_Low Channel _ 1GHz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1644.300	-58.83	-13.00	45.83	H	-3.22	PASS
4411.900	-52.44	-13.00	39.44	H	8.14	PASS
8969.600	-50.29	-13.00	37.29	H	13.06	PASS
11764.400	-51.54	-13.00	38.54	H	13.98	PASS
14396.000	-49.61	-13.00	36.61	H	18.83	PASS
17235.850	-46.63	-13.00	33.63	H	23.15	PASS



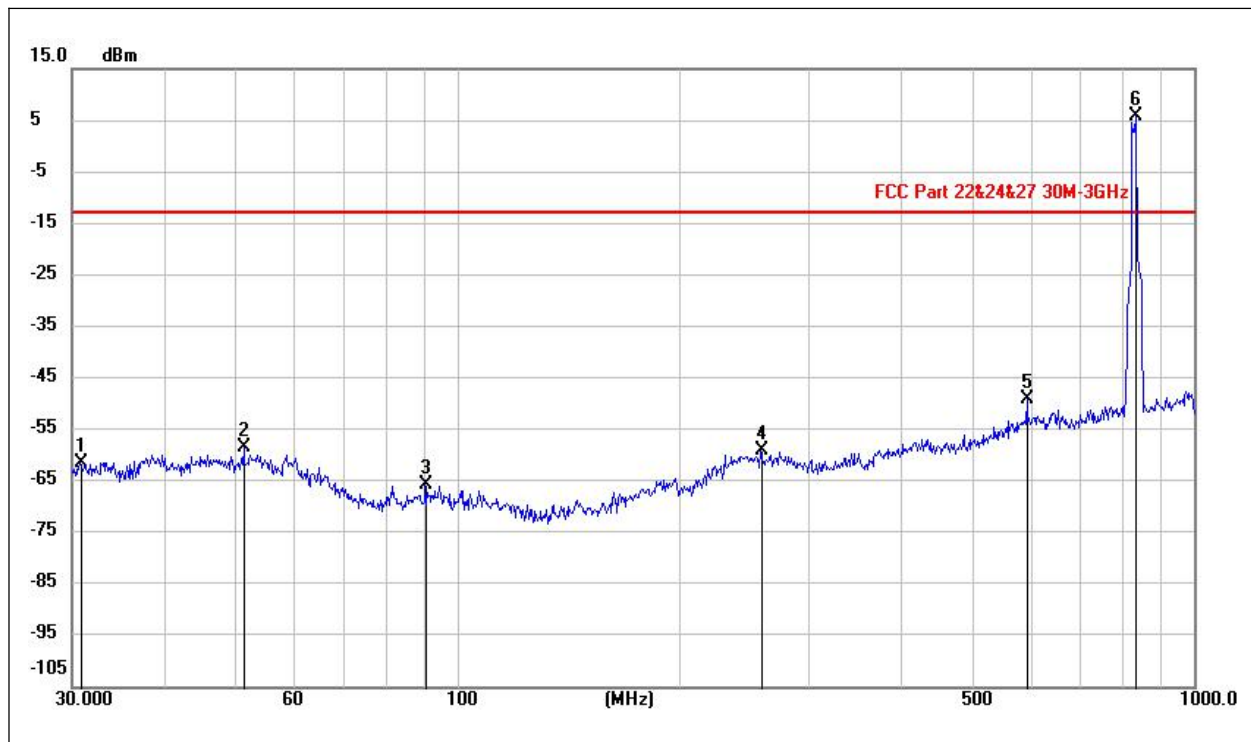
(LTE Band 26_QPSK_Low Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.0000	-53.14	-13.00	40.14	V	19.51	PASS
52.9268	-59.15	-13.00	46.15	V	23.47	PASS
93.9660	-64.06	-13.00	51.06	V	26.52	PASS
257.5576	-59.16	-13.00	46.16	V	25.48	PASS
422.1317	-56.89	-13.00	43.89	V	30.03	PASS
822.1427	-0.83	N/A	N/A	V	36.88	N/A



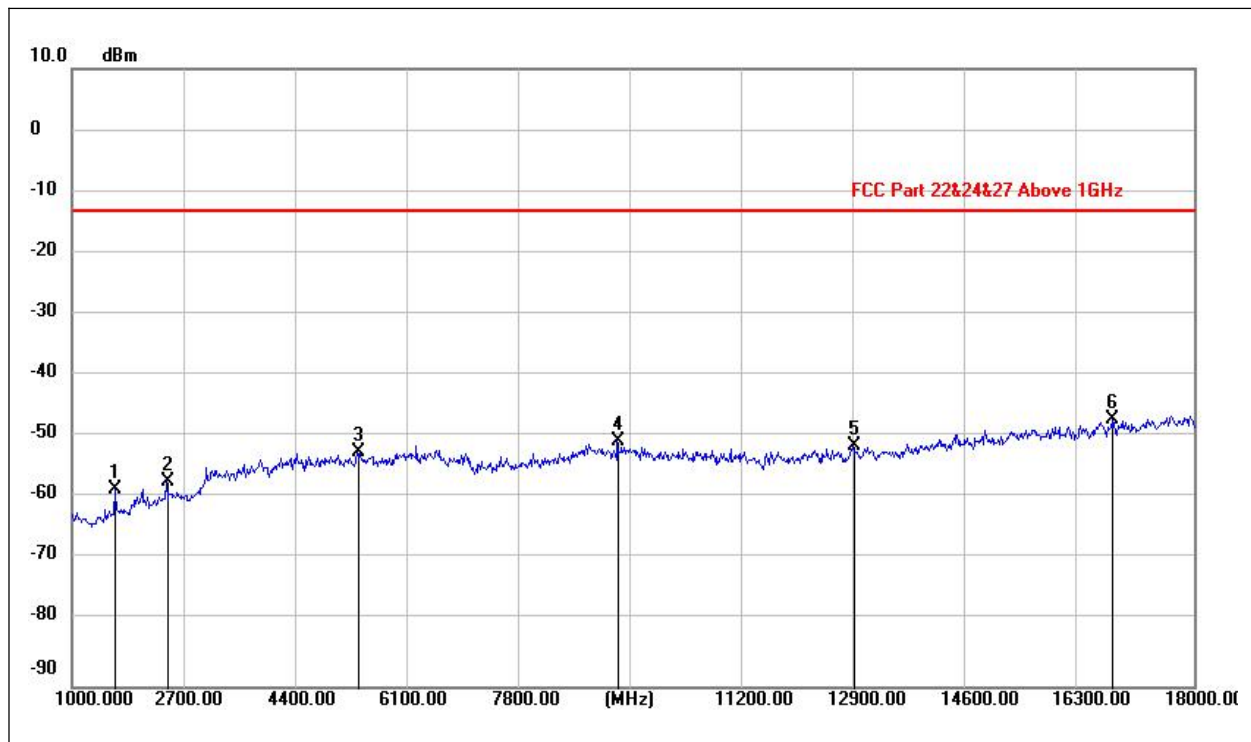
(LTE Band 26_QPSK_Low Channel _ 1GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2457.750	-58.10	-13.00	45.10	V	0.07	PASS
5735.350	-52.48	-13.00	39.48	V	9.19	PASS
9335.100	-51.20	-13.00	38.20	V	13.54	PASS
11373.400	-50.69	-13.00	37.69	V	13.34	PASS
15245.150	-48.20	-13.00	35.20	V	20.69	PASS
17990.650	-46.16	-13.00	33.16	V	23.14	PASS



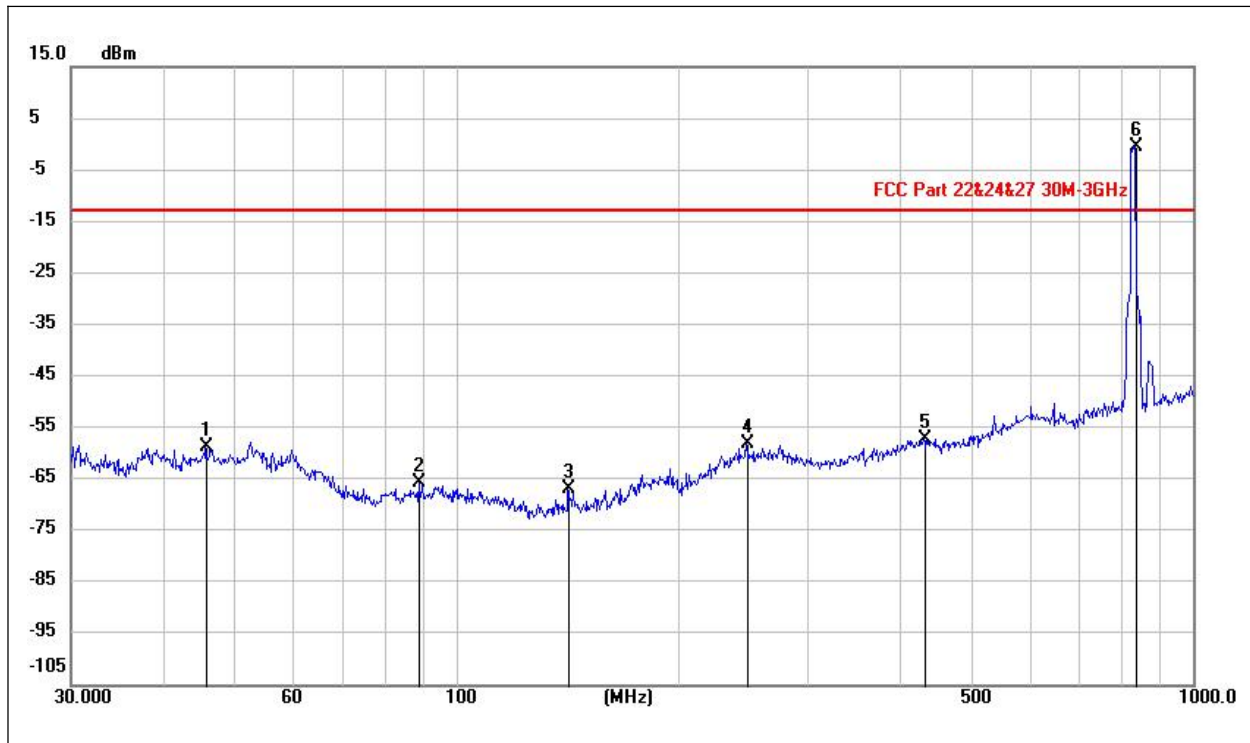
(LTE Band 26_QPSK_Middle Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.8373	-61.32	-13.00	48.32	H	27.70	PASS
51.3455	-58.32	-13.00	45.32	H	29.39	PASS
90.8236	-65.77	-13.00	52.77	H	21.68	PASS
258.7344	-59.10	-13.00	46.10	H	29.07	PASS
594.9242	-49.17	-13.00	36.17	H	35.61	PASS
835.2186	5.81	N/A	N/A	H	36.95	N/A



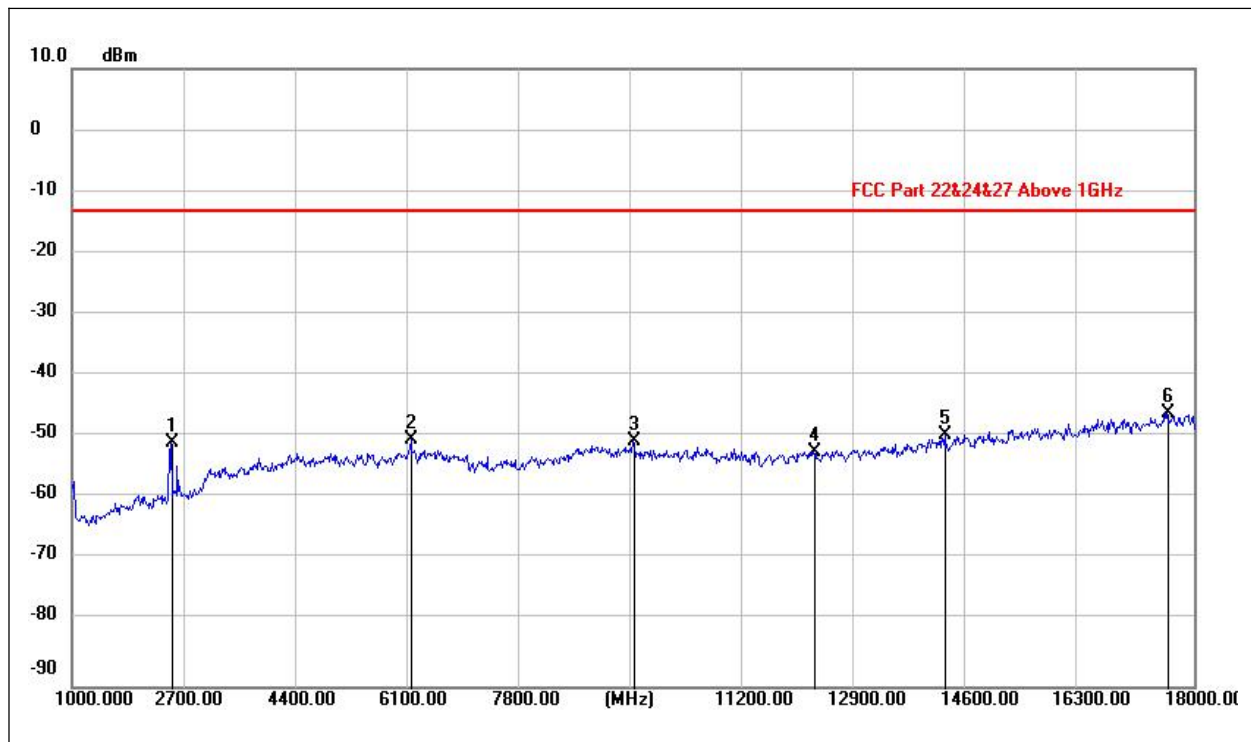
(LTE Band 26_QPSK_Middle Channel _ 1GHz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1662.150	-58.01	-13.00	45.01	H	-2.89	PASS
2434.800	-56.76	-13.00	43.76	H	-0.15	PASS
5331.600	-51.98	-13.00	38.98	H	8.70	PASS
9270.500	-50.17	-13.00	37.17	H	13.10	PASS
12839.650	-50.95	-13.00	37.95	H	15.91	PASS
16760.700	-46.69	-13.00	33.69	H	22.74	PASS



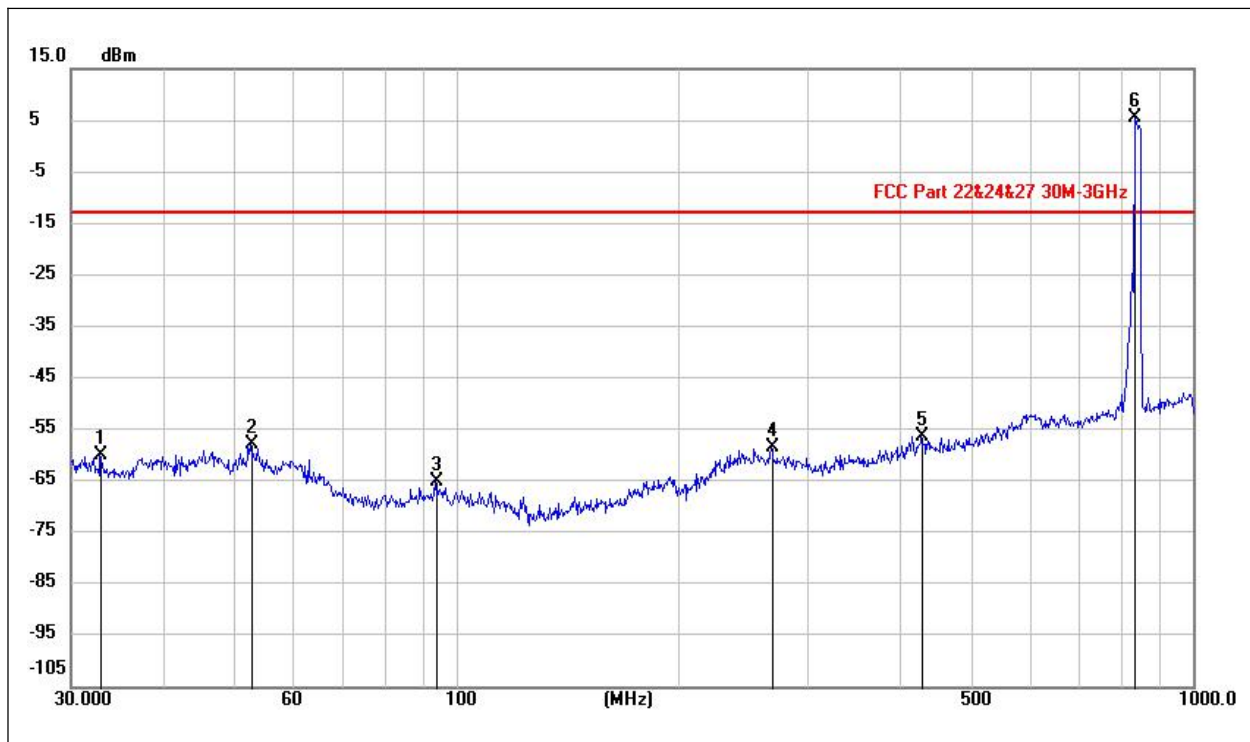
(LTE Band 26_QPSK_Middle Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
45.7991	-58.62	-13.00	45.62	V	24.23	PASS
88.9795	-65.66	-13.00	52.66	V	24.02	PASS
142.1249	-66.76	-13.00	53.76	V	23.48	PASS
248.3777	-58.09	-13.00	45.09	V	25.13	PASS
431.6366	-57.30	-13.00	44.30	V	29.67	PASS
838.1525	-0.52	N/A	N/A	V	37.05	N/A



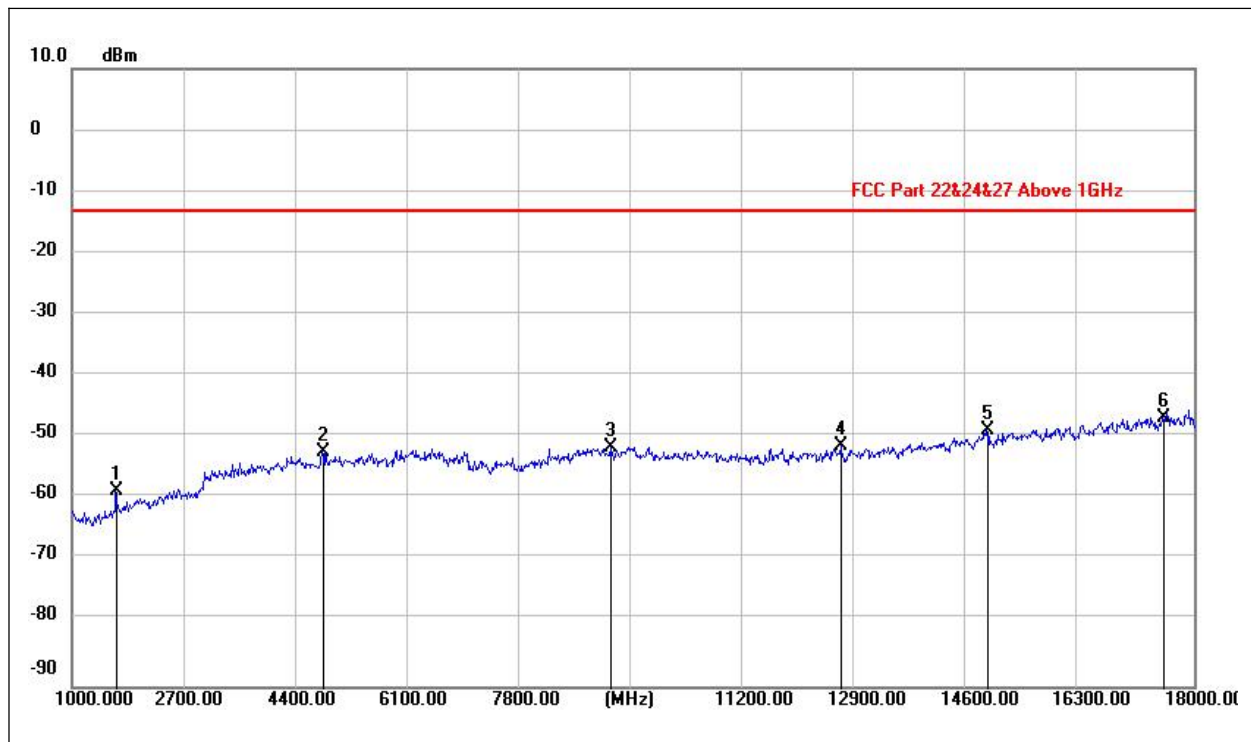
(LTE Band 26_QPSK_Middle Channel _ 1GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
2501.100	-50.47	-13.00	37.47	V	0.55	PASS
6139.100	-50.02	-13.00	37.02	V	9.88	PASS
9512.750	-50.26	-13.00	37.26	V	13.41	PASS
12242.950	-51.99	-13.00	38.99	V	14.57	PASS
14237.050	-49.20	-13.00	36.20	V	18.41	PASS
17597.100	-45.70	-13.00	32.70	V	23.07	PASS



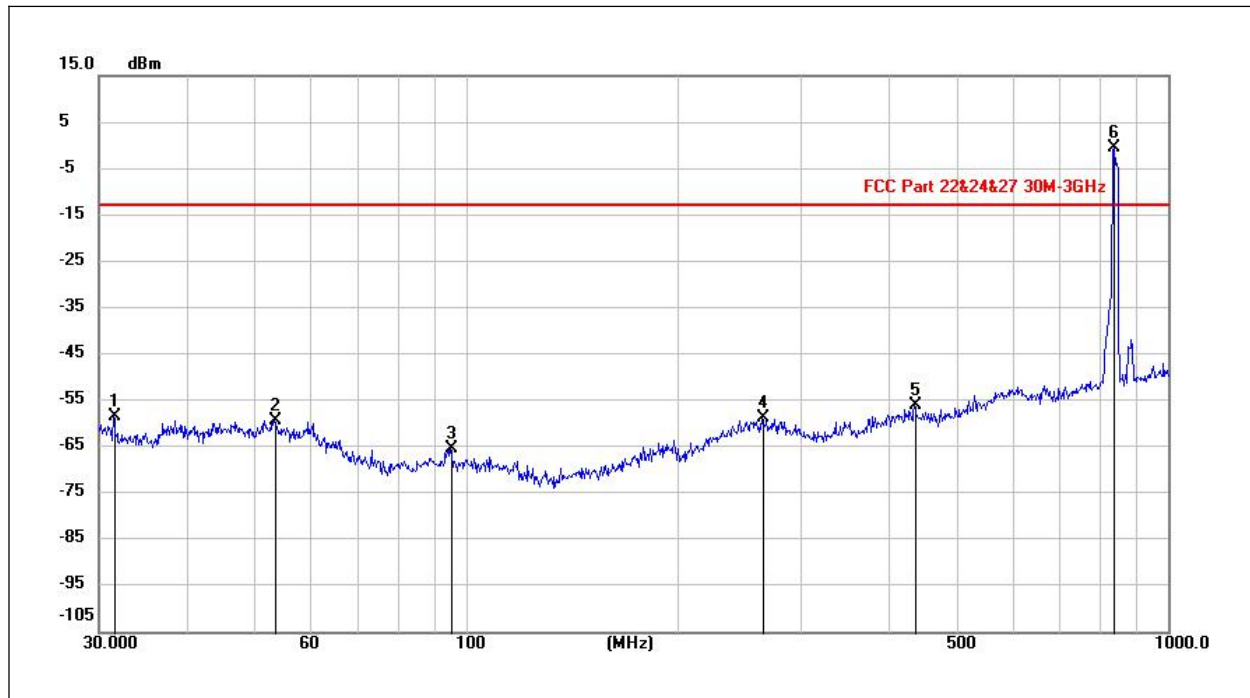
(LTE Band 26_QPSK_High Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
32.9733	-59.99	-13.00	46.99	H	27.44	PASS
52.6860	-57.95	-13.00	44.95	H	30.01	PASS
94.0319	-65.12	-13.00	52.12	H	22.65	PASS
268.0620	-58.53	-13.00	45.53	H	29.04	PASS
428.6952	-56.17	-13.00	43.17	H	30.72	PASS
835.2186	5.61	N/A	N/A	H	36.95	N/A



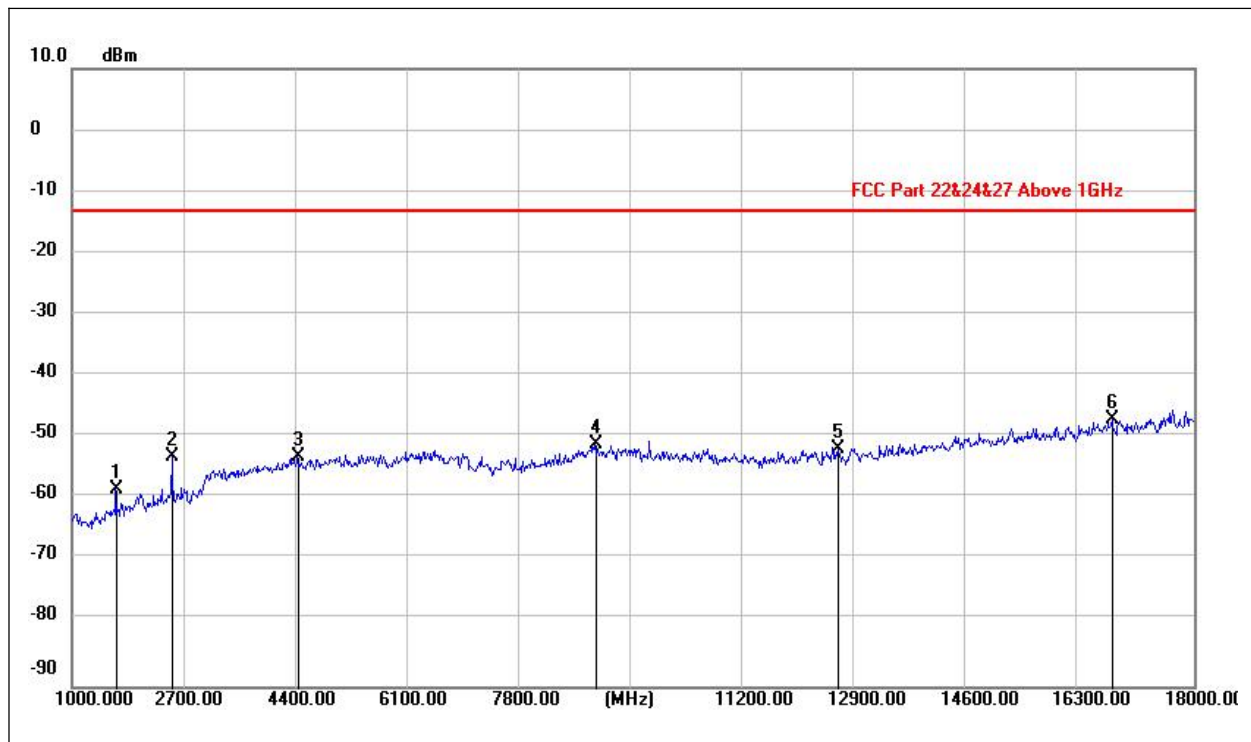
(LTE Band 26_QPSK_High Channel _ 1Hz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1679.150	-58.18	-13.00	45.18	H	-2.95	PASS
4806.300	-51.88	-13.00	38.88	H	8.68	PASS
9170.200	-51.26	-13.00	38.26	H	12.71	PASS
12657.750	-51.05	-13.00	38.05	H	15.50	PASS
14863.500	-48.44	-13.00	35.44	H	19.26	PASS
17535.900	-46.48	-13.00	33.48	H	24.25	PASS



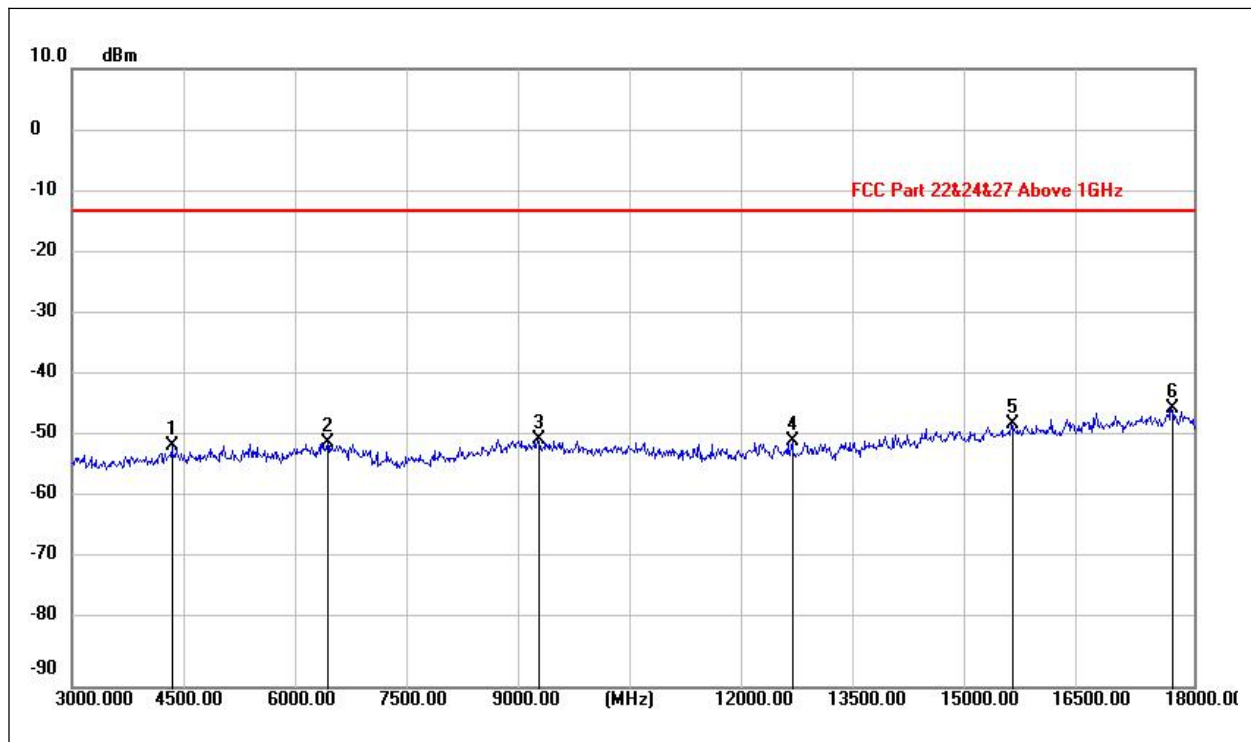
(LTE Band 26_QPSK_High Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
31.5869	-58.49	-13.00	45.49	V	-58.49	PASS
53.4490	-59.38	-13.00	46.38	V	-59.38	PASS
95.3434	-65.39	-13.00	52.39	V	-65.39	PASS
264.3283	-58.57	-13.00	45.57	V	-58.57	PASS
436.7369	-56.01	-13.00	43.01	V	-56.01	PASS
839.1818	-0.38	N/A	N/A	V	-0.38	N/A



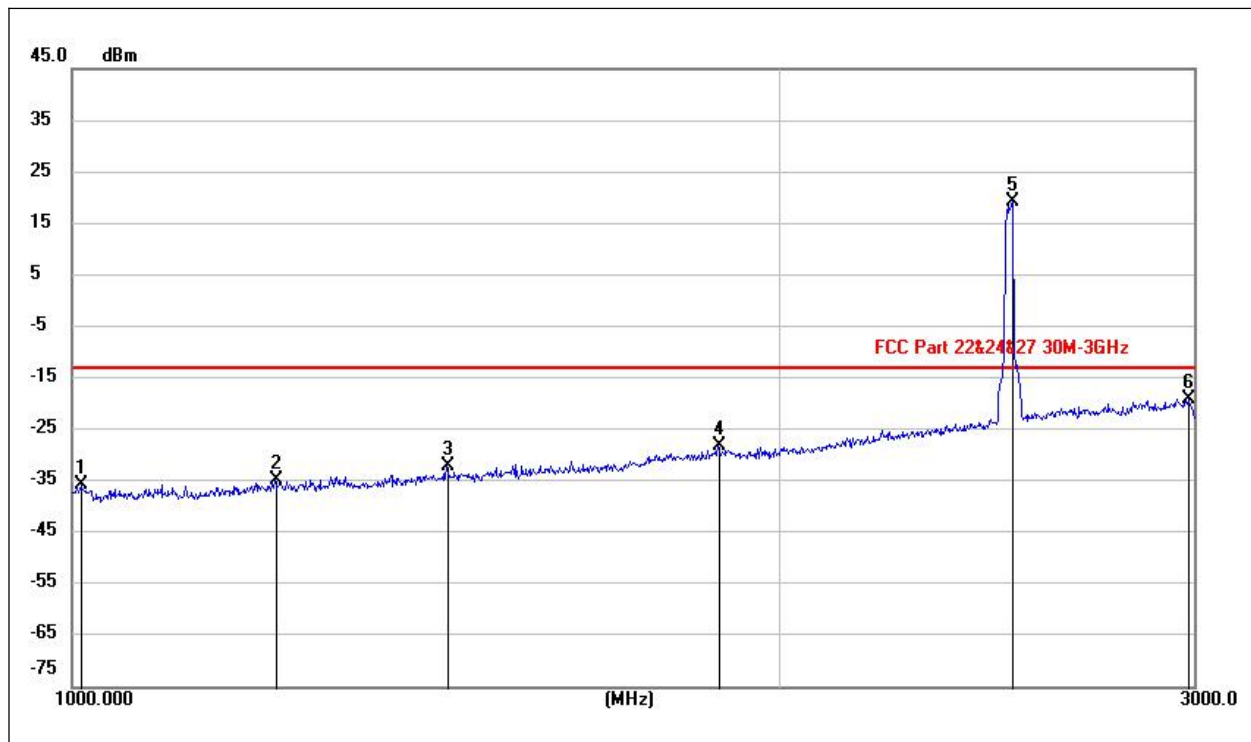
(LTE Band 26_QPSK_High Channel _ 1GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1674.050	-58.00	-13.00	45.00	V	-2.59	PASS
2522.350	-52.73	-13.00	39.73	V	0.63	PASS
4423.800	-52.76	-13.00	39.76	V	7.99	PASS
8931.350	-50.75	-13.00	37.75	V	13.21	PASS
12611.000	-51.45	-13.00	38.45	V	15.26	PASS
16759.850	-46.58	-13.00	33.58	V	22.28	PASS



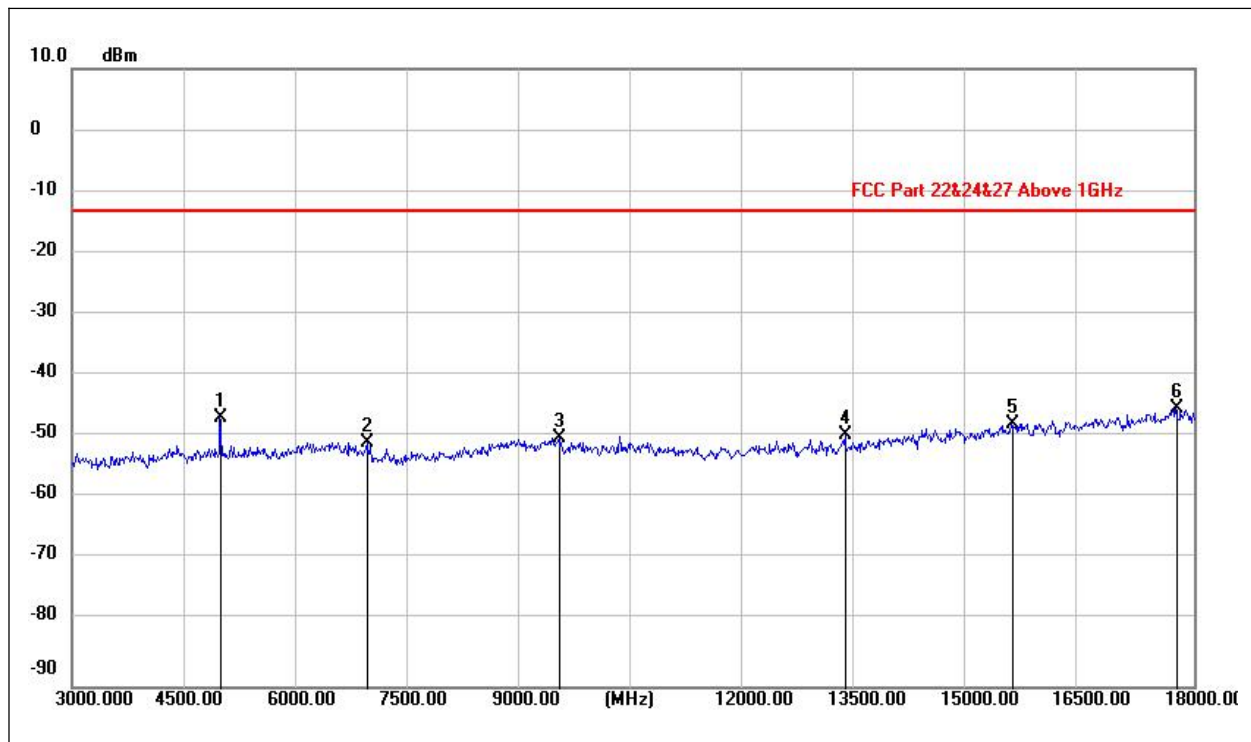
(LTE Band 41_QPSK_ Low Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
31.5814	-60.29	-13.00	47.29	H	27.48	PASS
53.8157	-58.63	-13.00	45.63	H	29.84	PASS
92.7222	-65.22	-13.00	52.22	H	22.05	PASS
247.7253	-58.63	-13.00	45.63	H	28.91	PASS
598.7961	-51.42	-13.00	38.42	H	35.63	PASS
984.5169	-47.52	-13.00	34.52	H	39.42	PASS



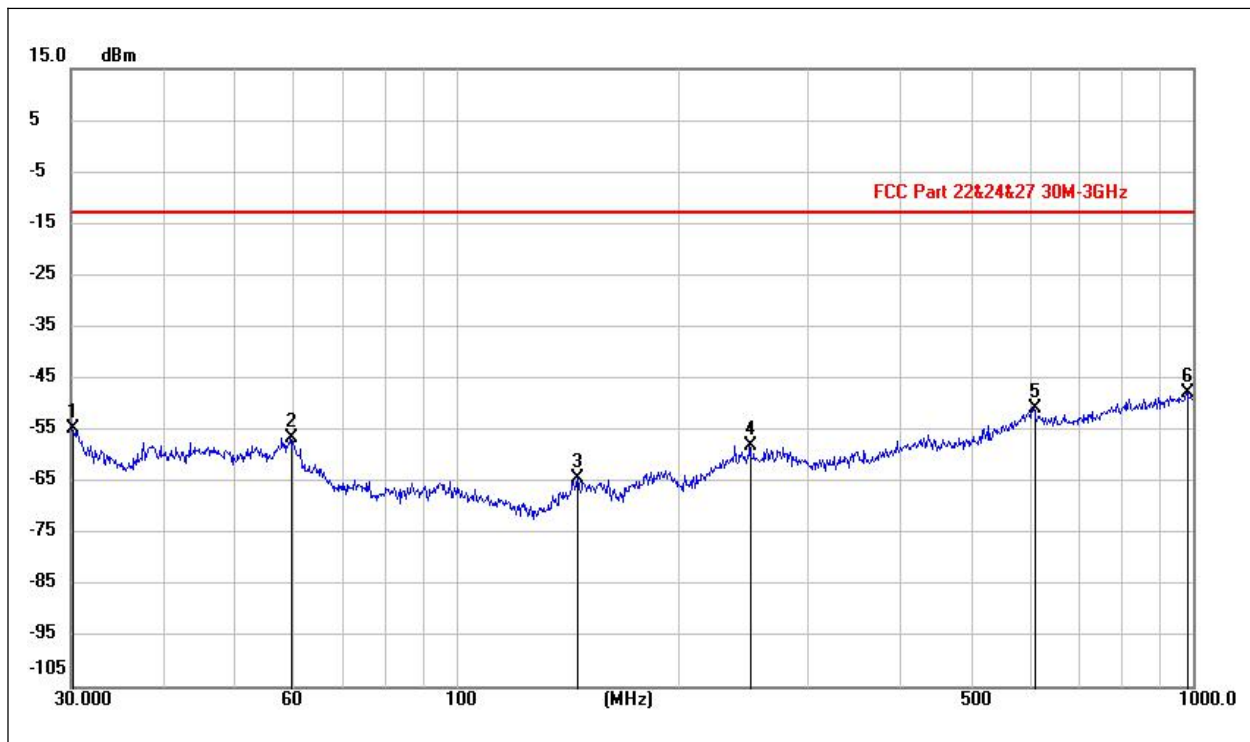
(LTE Band 41_QPSK_ Low Channel _ 1GHz to 3GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1008.828	-35.68	-13.00	22.68	H	38.93	PASS
1219.998	-34.86	-13.00	21.86	H	41.55	PASS
1444.734	-32.01	-13.00	19.01	H	43.39	PASS
1884.118	-28.04	-13.00	15.04	H	46.97	PASS
2512.821	19.33	N/A	N/A	H	52.06	N/A
2985.697	-18.98	-13.00	5.98	H	55.75	PASS



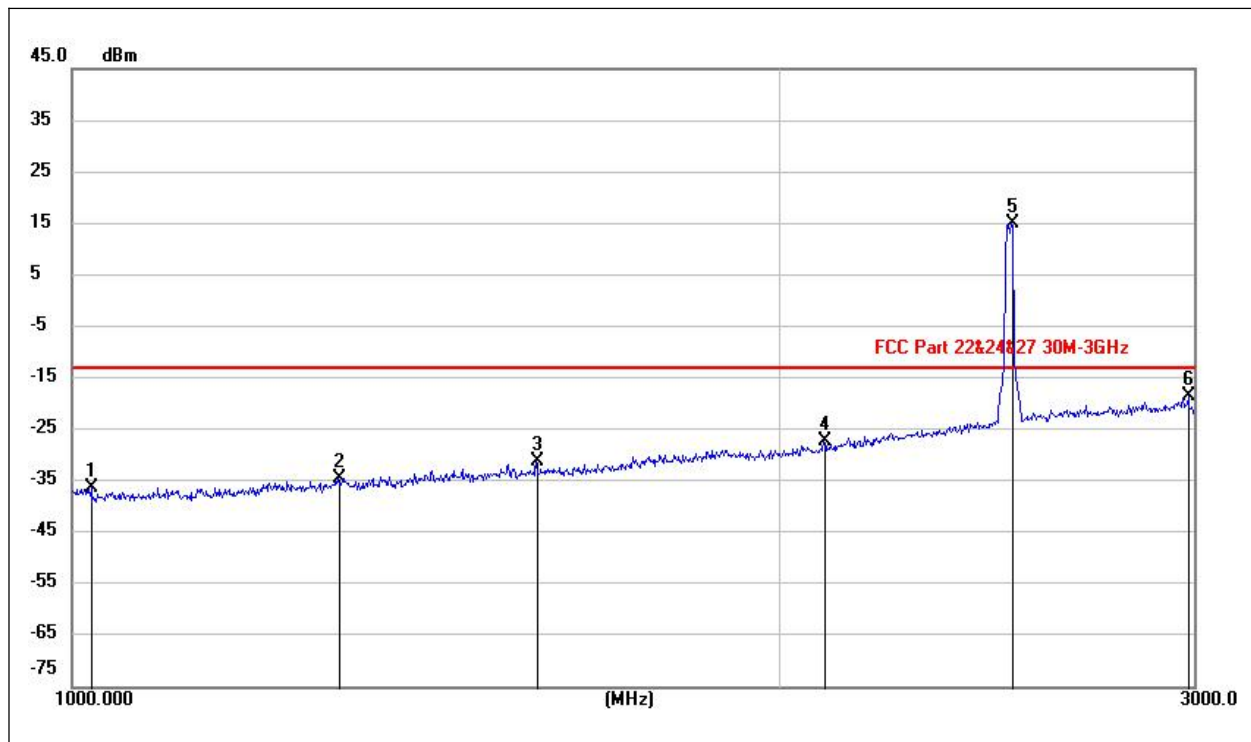
(LTE Band 41_QPSK_ Low Channel _ 3GHz to 18GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4994.250	-46.51	-13.00	33.51	H	9.89	PASS
6951.000	-50.51	-13.00	37.51	H	11.30	PASS
9521.250	-49.72	-13.00	36.72	H	14.34	PASS
13349.250	-49.11	-13.00	36.11	H	17.65	PASS
15562.500	-47.47	-13.00	34.47	H	21.59	PASS
17761.500	-44.88	-13.00	31.88	H	26.09	PASS



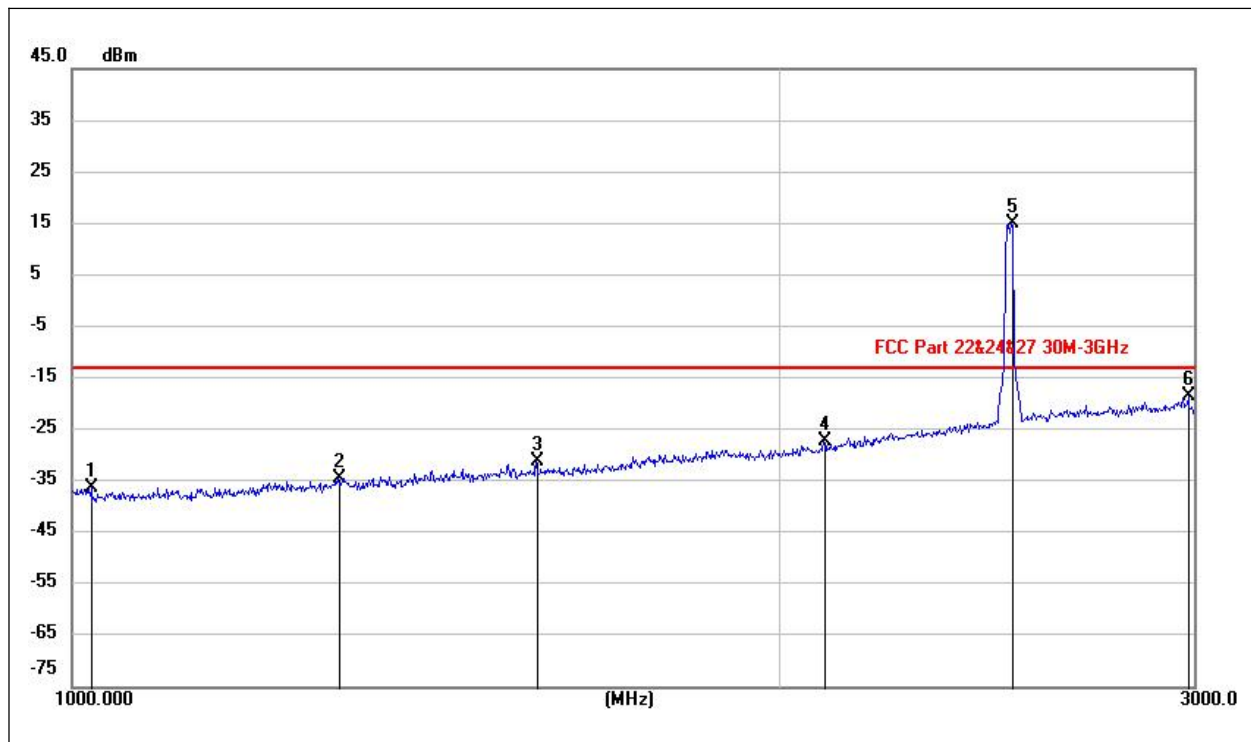
(LTE Band 41_QPSK_ Low Channel _ 30MHz to 1GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.1794	-54.78	-13.00	41.78	V	19.58	PASS
59.6702	-56.52	-13.00	43.52	V	23.99	PASS
146.2452	-64.37	-13.00	51.37	V	23.36	PASS
250.5207	-58.15	-13.00	45.15	V	25.17	PASS
609.7079	-50.84	-13.00	37.84	V	34.37	PASS
979.3521	-47.88	-13.00	34.88	V	38.99	PASS



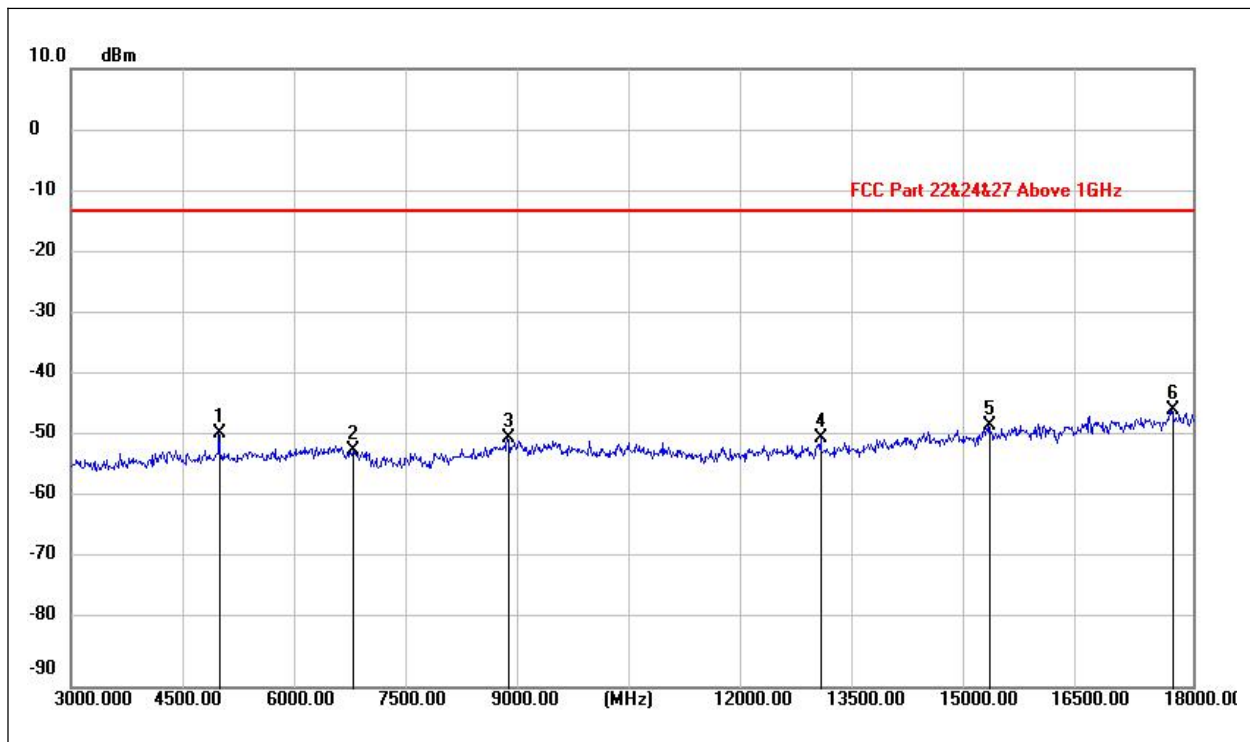
(LTE Band 41_QPSK_ Low Channel _ 1GHz to 3GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1019.636	-36.27	-13.00	23.27	V	38.22	PASS
1297.483	-34.30	-13.00	21.30	V	42.01	PASS
1576.158	-31.27	-13.00	18.27	V	44.10	PASS
2088.174	-27.35	-13.00	14.35	V	47.90	PASS
2510.614	14.87	N/A	N/A	V	52.20	N/A
2985.861	-18.50	-13.00	5.50	V	55.77	PASS



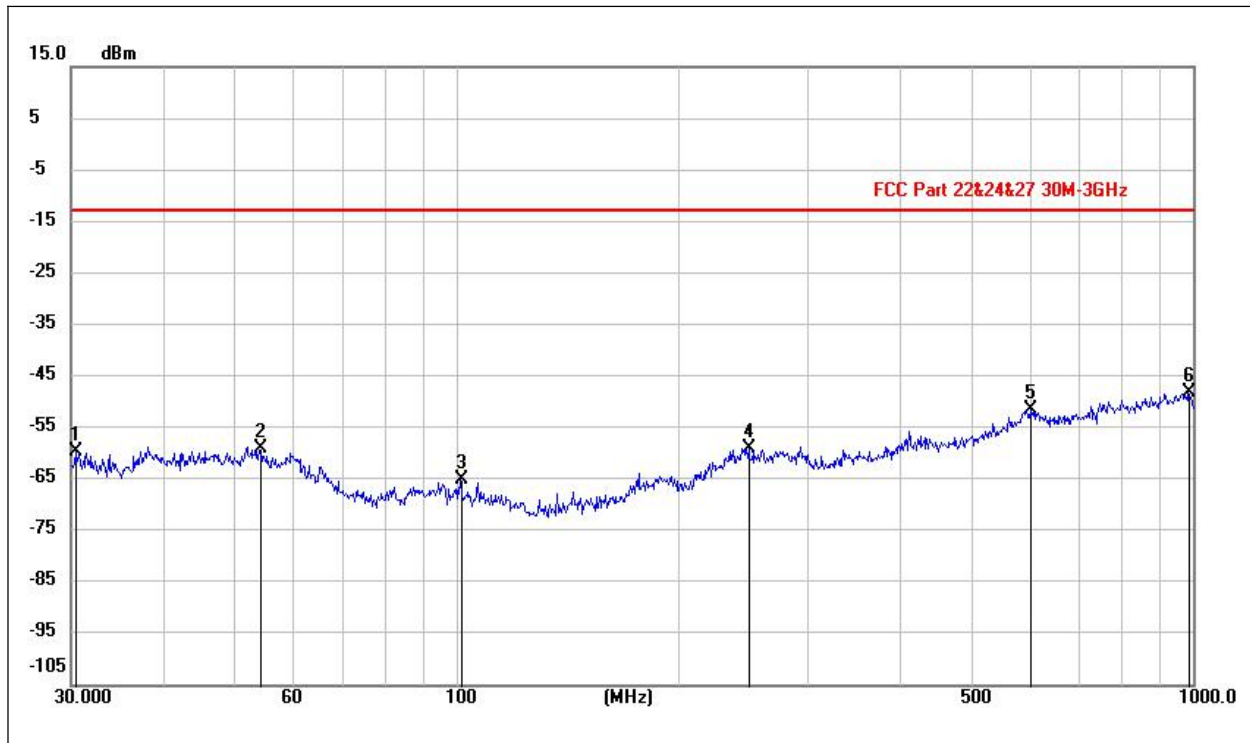
(LTE Band 41_QPSK_ Low Channel _ 1GHz to 3GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1019.636	-36.27	-13.00	23.27	V	38.22	PASS
1297.483	-34.30	-13.00	21.30	V	42.01	PASS
1576.158	-31.27	-13.00	18.27	V	44.10	PASS
2088.174	-27.35	-13.00	14.35	V	47.90	PASS
2510.614	14.87	N/A	N/A	V	52.20	N/A
2985.861	-18.50	-13.00	5.50	V	55.77	PASS



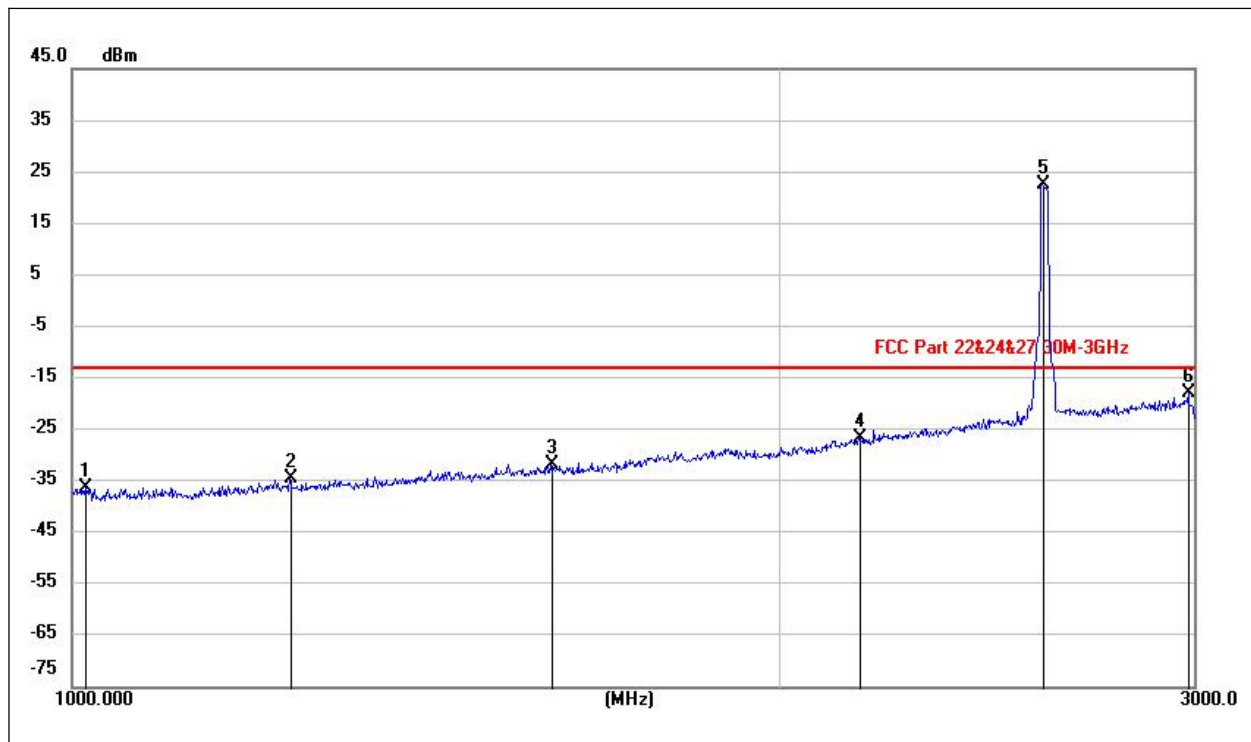
(LTE Band 41_QPSK_ Low Channel _ 3GHz to 18GHz _Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
4994.250	-48.80	-13.00	35.80	V	9.75	PASS
6776.250	-51.71	-13.00	38.71	V	10.55	PASS
8847.000	-49.58	-13.00	36.58	V	14.08	PASS
13023.000	-49.71	-13.00	36.71	V	17.12	PASS
15276.750	-47.74	-13.00	34.74	V	21.04	PASS
17729.250	-45.11	-13.00	32.11	V	24.68	PASS



(LTE Band 41_QPSK_ Middle Channel _ 30MHz to 1GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
30.4344	-59.72	-13.00	46.72	H	27.56	PASS
54.1185	-59.17	-13.00	46.17	H	29.65	PASS
101.6087	-65.08	-13.00	52.08	H	22.28	PASS
249.6000	-59.07	-13.00	46.07	H	29.10	PASS
602.6932	-51.40	-13.00	38.40	H	35.44	PASS
987.9753	-48.03	-13.00	35.03	H	39.32	PASS



(LTE Band 41_QPSK_ Middle Channel _ 1GHz to 3GHz _Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)	Verdict
1013.939	-36.19	-13.00	23.19	H	38.79	PASS
1238.839	-34.58	-13.00	21.58	H	41.31	PASS
1600.148	-31.79	-13.00	18.79	H	44.33	PASS
2160.278	-26.62	-13.00	13.62	H	48.86	PASS
2586.769	22.43	N/A	N/A	H	53.01	N/A
2985.369	-17.91	-13.00	4.91	H	55.75	PASS