

2.4. Band Edge

2.4.1. 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 $43 + 10 \log (P)$ dB.

According to FCC section 27.53(m) (4) for LTE Band 41, for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Band 48

Part 96.41(e)(1)(i)

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz .

Part 96.41(e)(1)(ii)

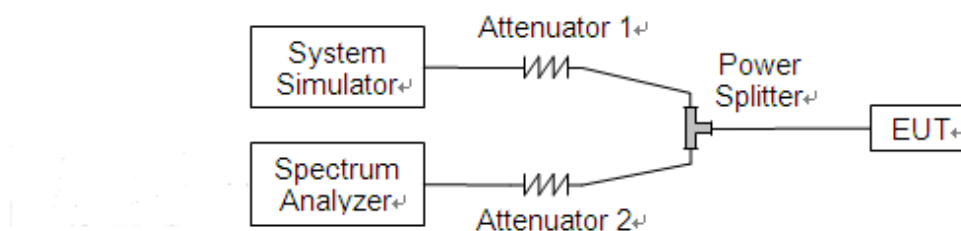
For channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower

CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz .

Part 96.41(e)(2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz .

2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

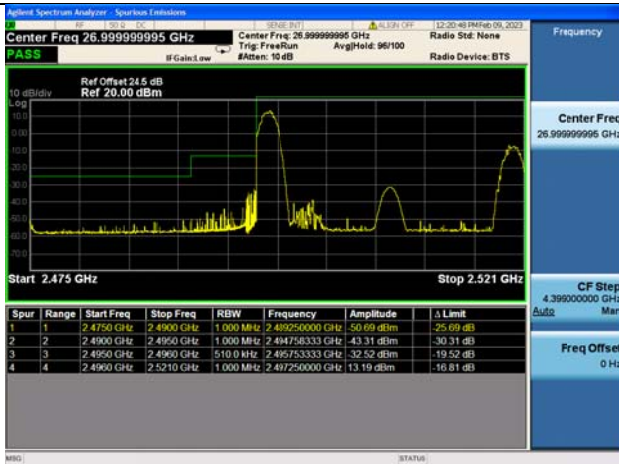
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.



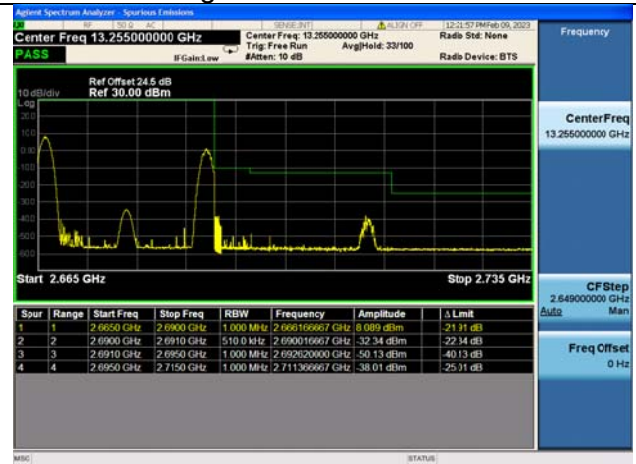
LTE CA 41C

Channel Bandwidth: 5MHz+20MHz

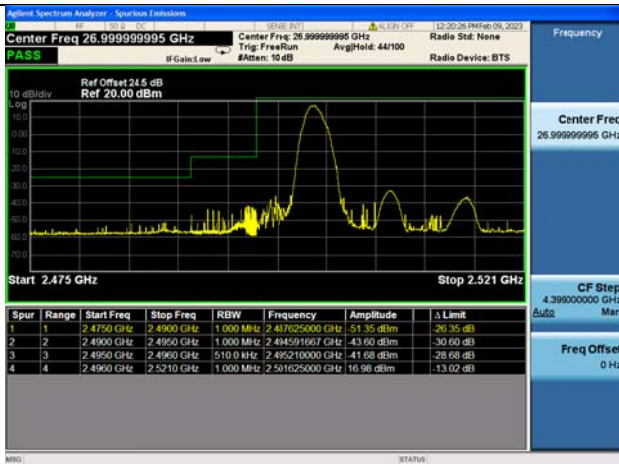
Low 1RB0 and 1RB99



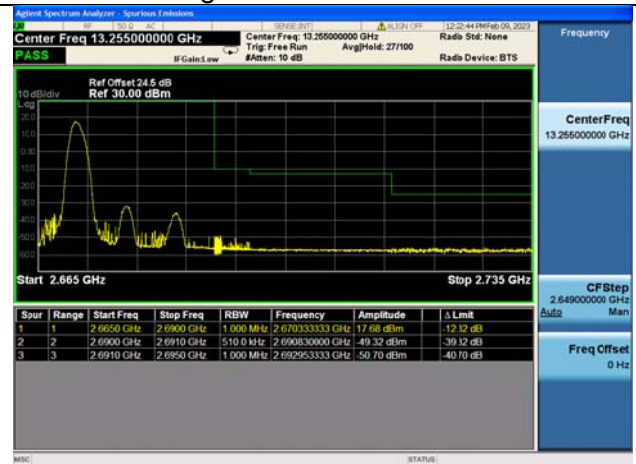
High 1RB0 and 1RB99



Low 1RB24 and 1RB0



High 1RB24 and 1RB0



Low FULL RB



High FULL RB

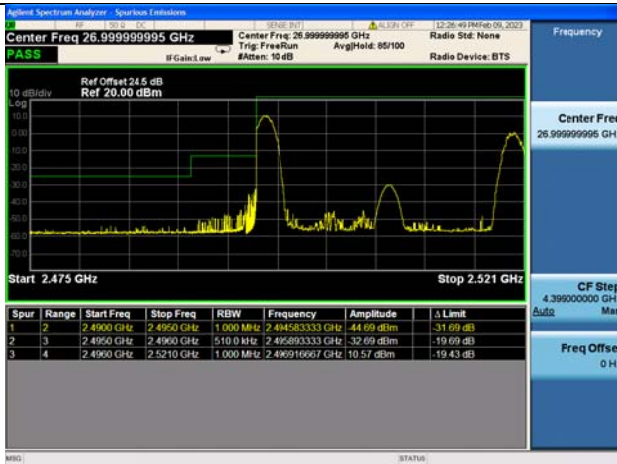




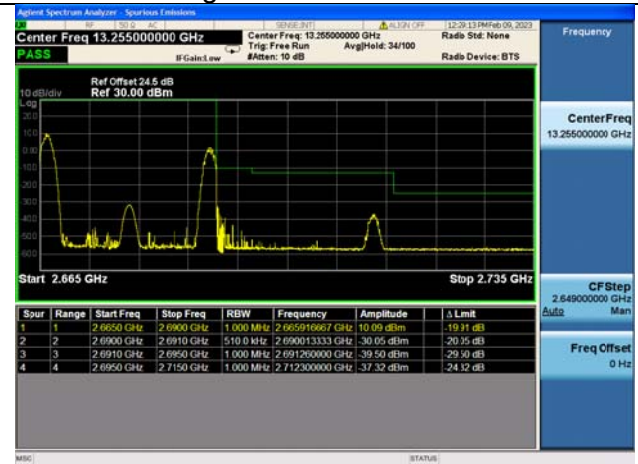
LTE CA 41C

Channel Bandwidth: 10MHz+15MHz

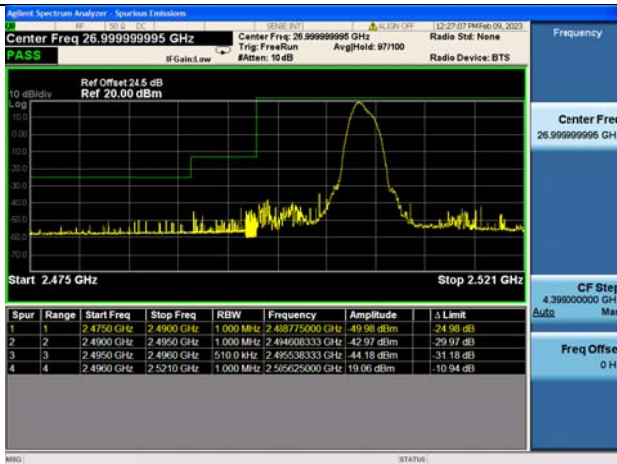
Low 1RB0 and 1RB74



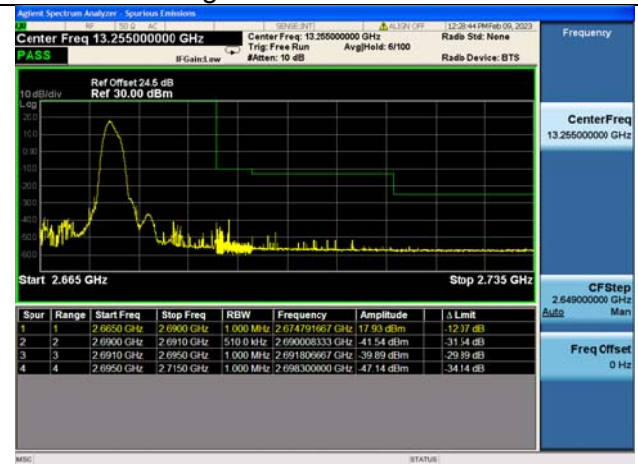
High 1RB0 and 1RB74



Low 1RB49 and 1RB0



High 1RB49 and 1RB0



Low FULL RB



High FULL RB

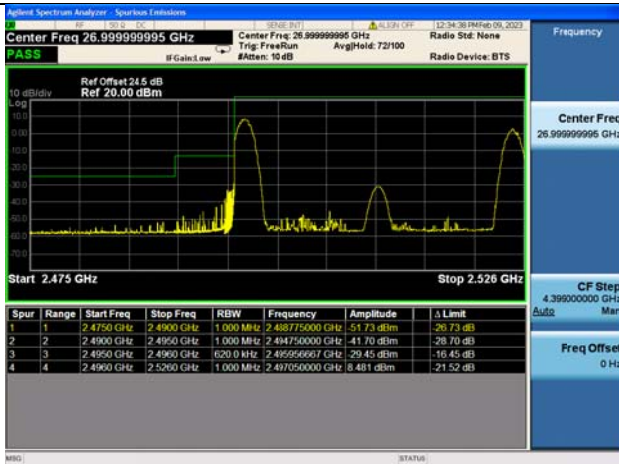




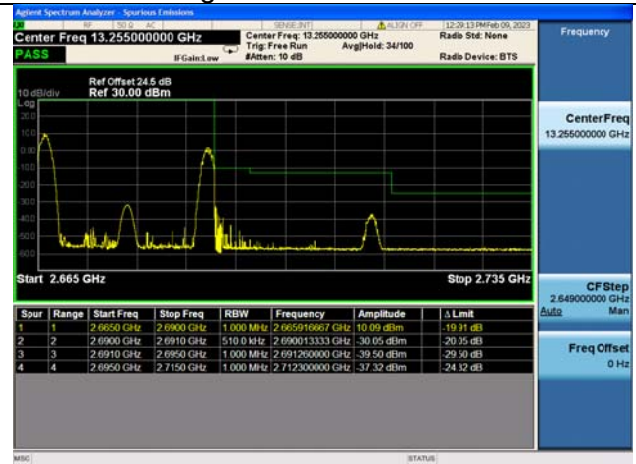
LTE CA 41C

Channel Bandwidth: 10MHz+20MHz

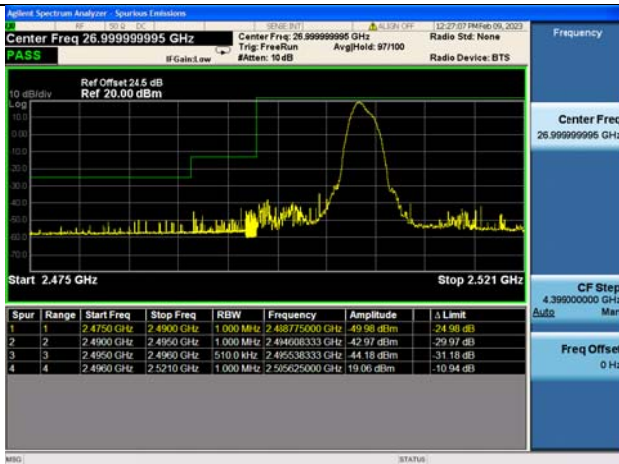
Low 1RB0 and 1RB99



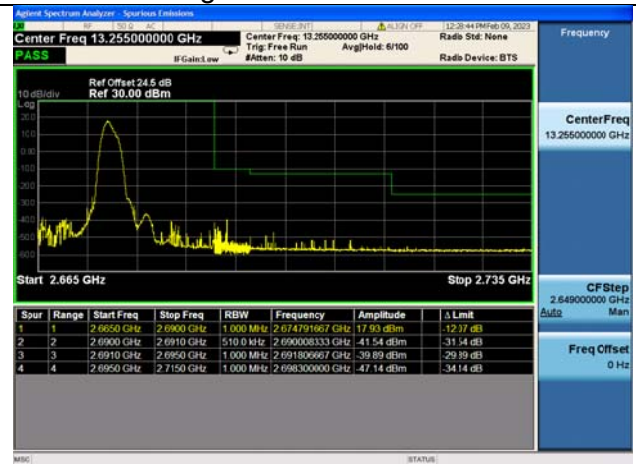
High 1RB0 and 1RB99



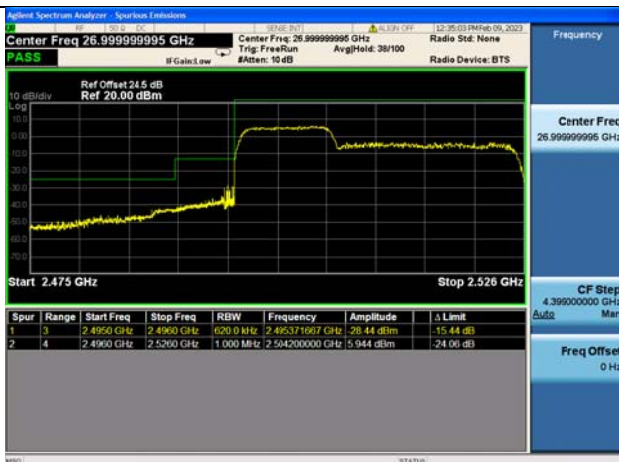
Low 1RB49 and 1RB0



High 1RB49 and 1RB0



Low FULL RB



High FULL RB

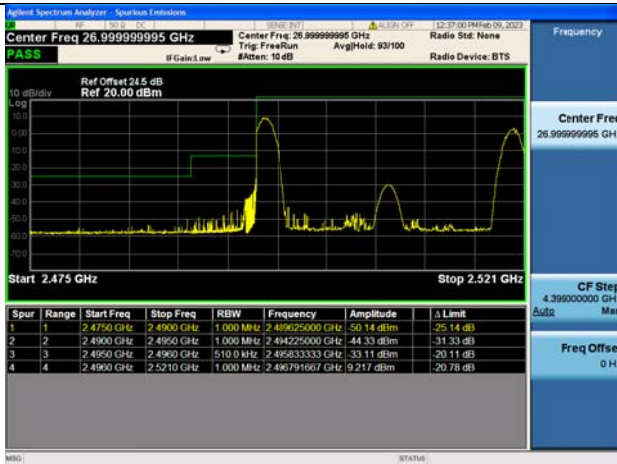




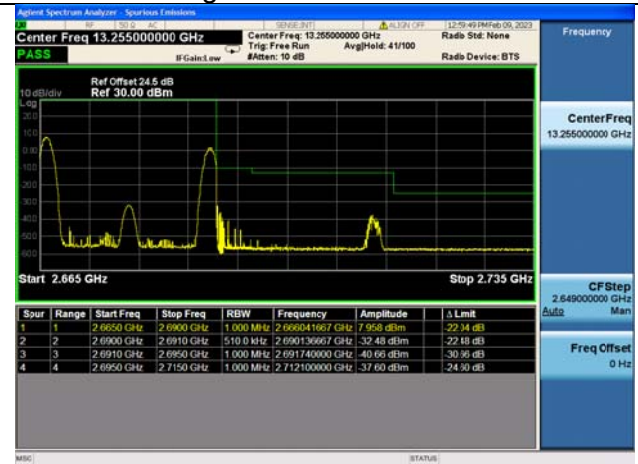
LTE CA 41C

Channel Bandwidth: 15MHz+10MHz

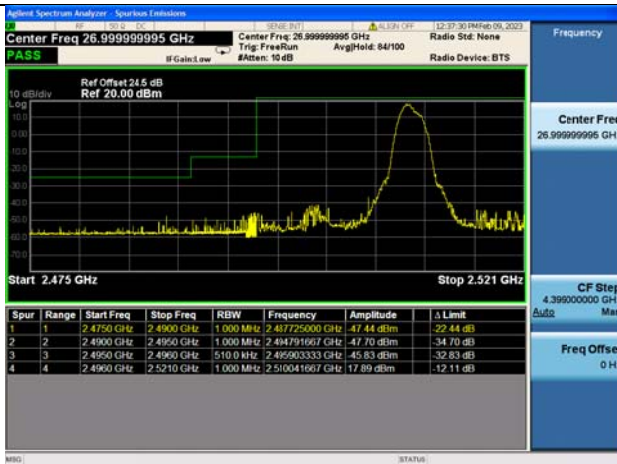
Low 1RB0 and 1RB49



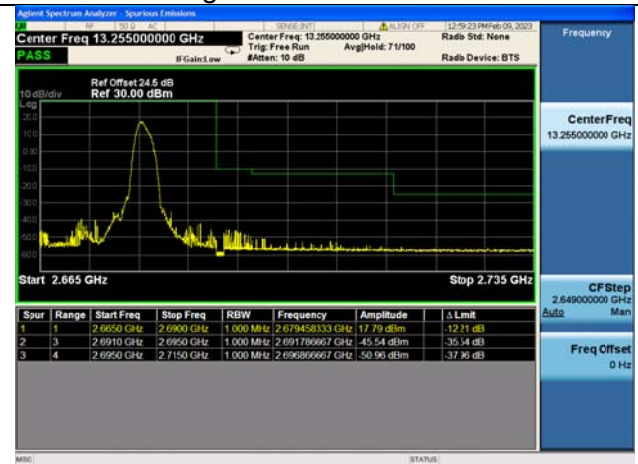
High 1RB0 and 1RB49



Low 1RB74 and 1RB0



High 1RB74 and 1RB0



Low FULL RB



High FULL RB

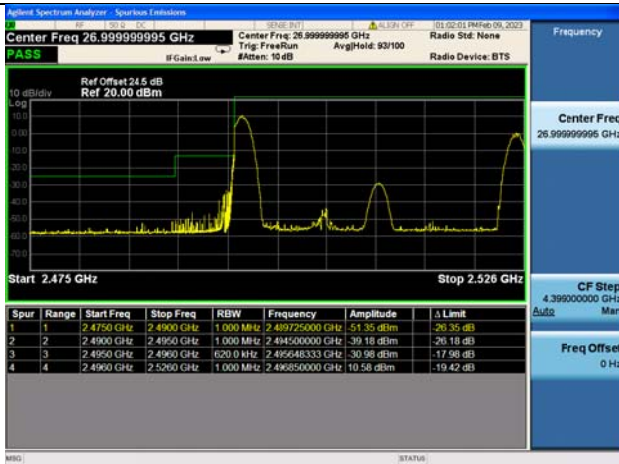




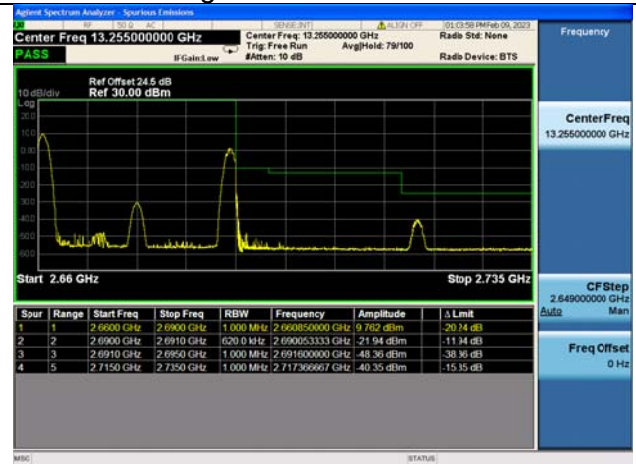
LTE CA 41C

Channel Bandwidth: 15MHz+15MHz

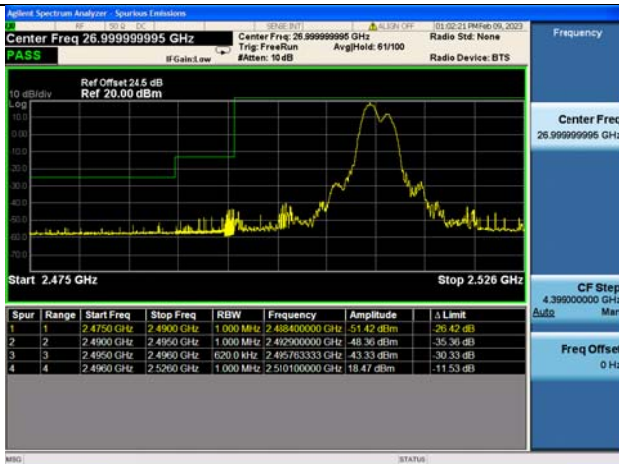
Low 1RB0 and 1RB74



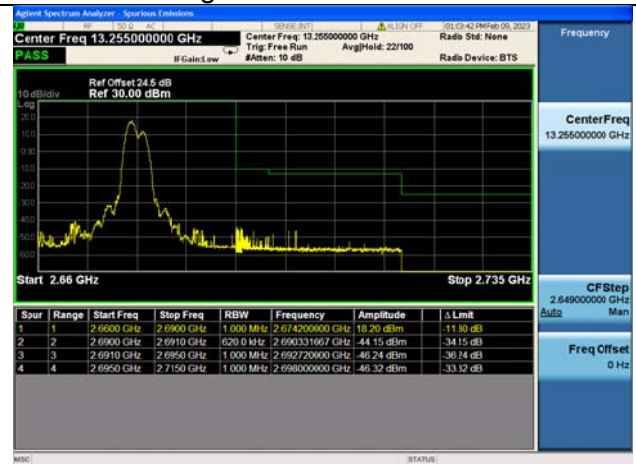
High 1RB0 and 1RB74



Low 1RB74 and 1RB0



High 1RB74 and 1RB0



Low FULL RB



High FULL RB

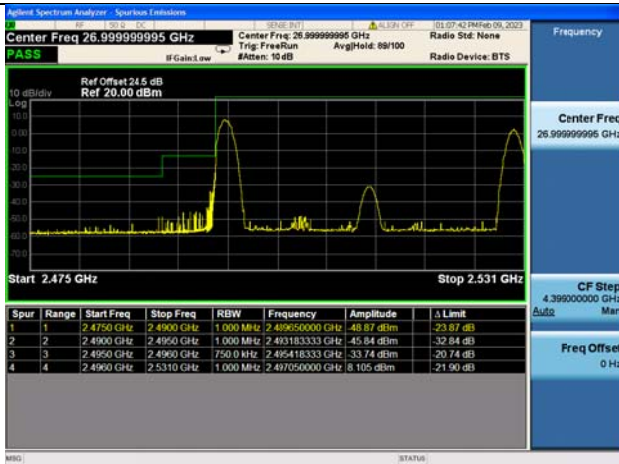




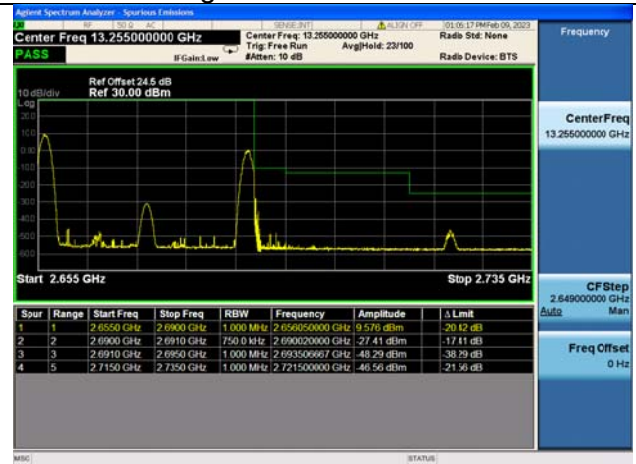
LTE CA 41C

Channel Bandwidth: 15MHz+20MHz

Low 1RB0 and 1RB99



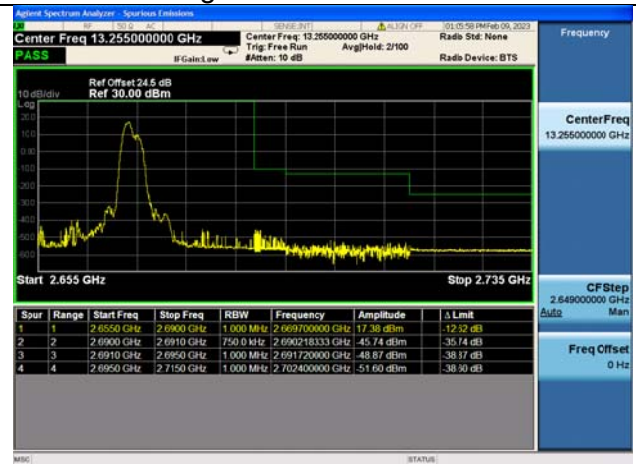
High 1RB0 and 1RB99



Low 1RB74 and 1RB0



High 1RB74 and 1RB0



Low FULL RB



High FULL RB

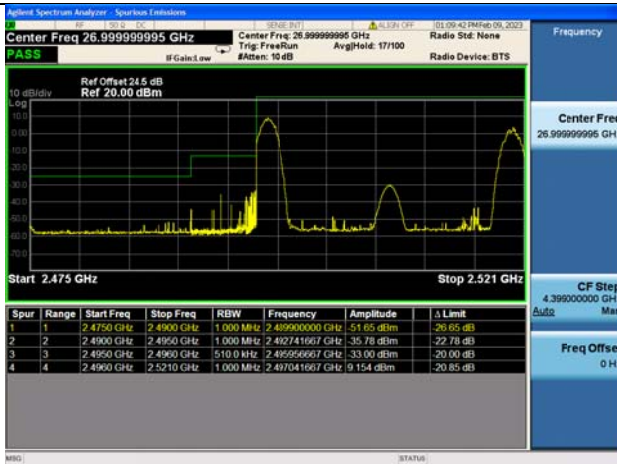




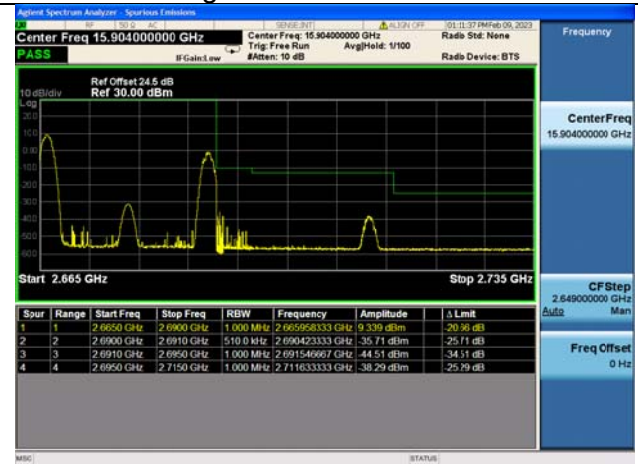
LTE CA 41C

Channel Bandwidth: 20MHz+5MHz

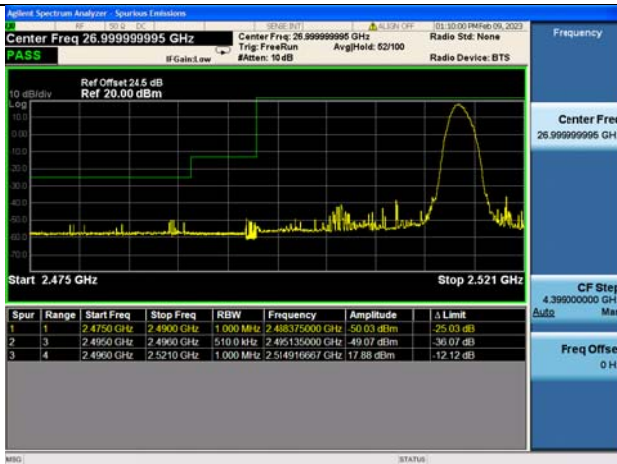
Low 1RB0 and 1RB24



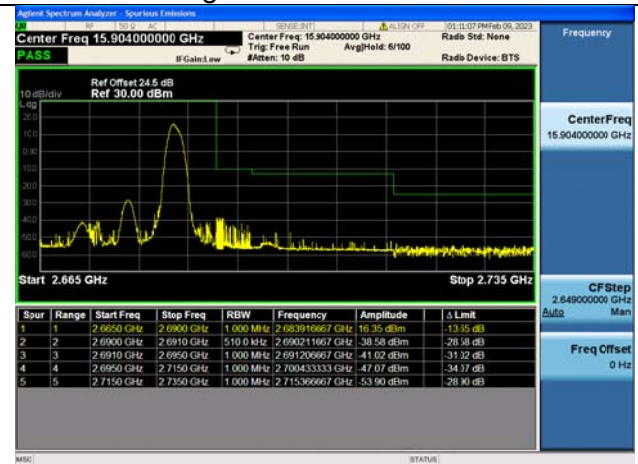
High 1RB0 and 1RB24



Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB

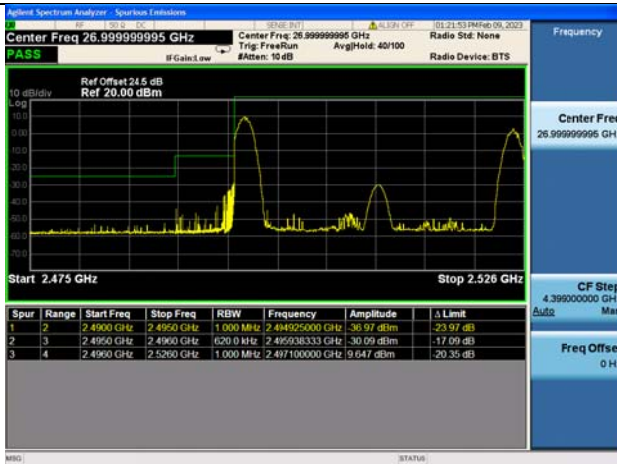




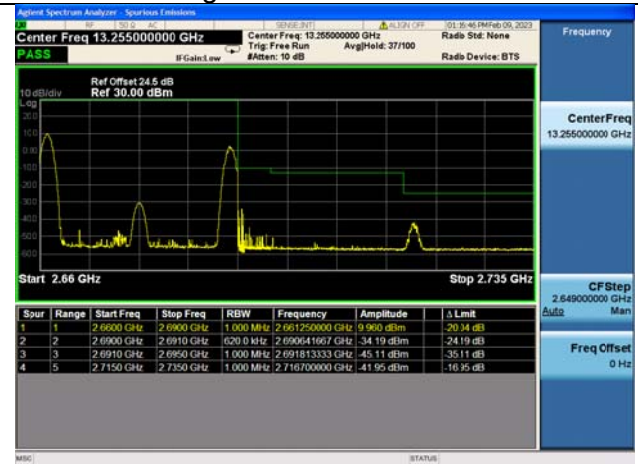
LTE CA 41C

Channel Bandwidth: 20MHz+10MHz

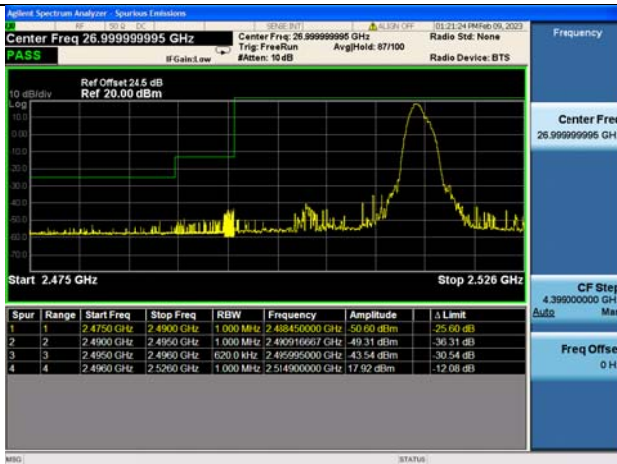
Low 1RB0 and 1RB49



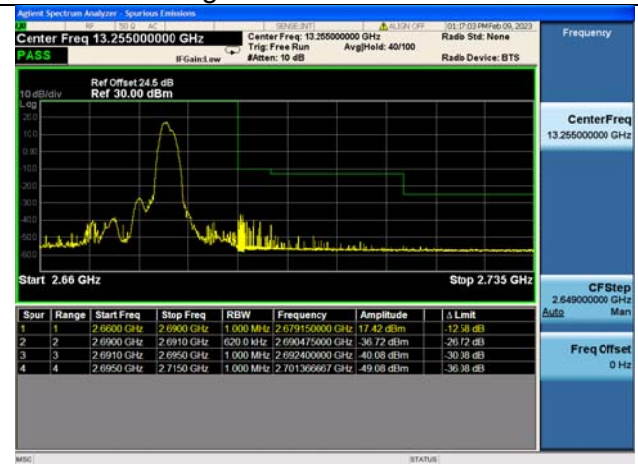
High 1RB0 and 1RB49



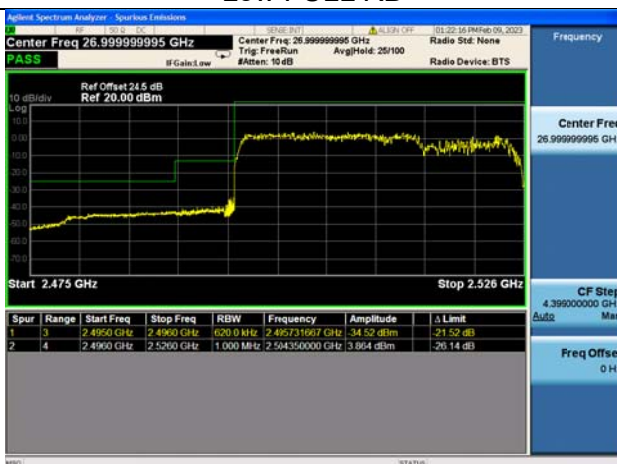
Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB

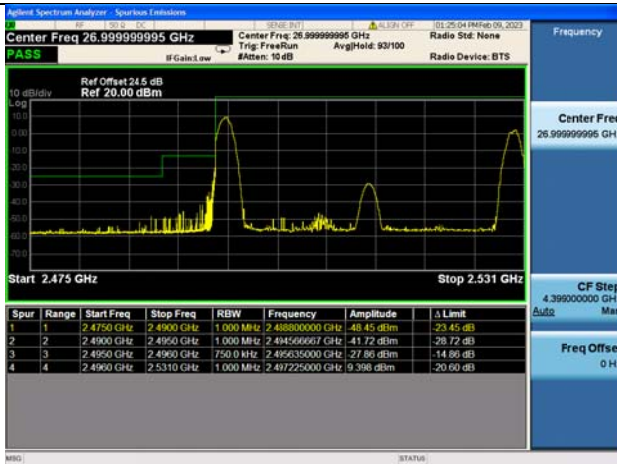




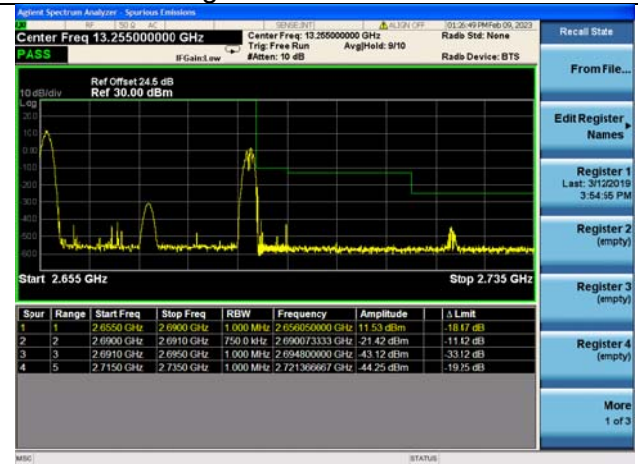
LTE CA 41C

Channel Bandwidth: 20MHz+15MHz

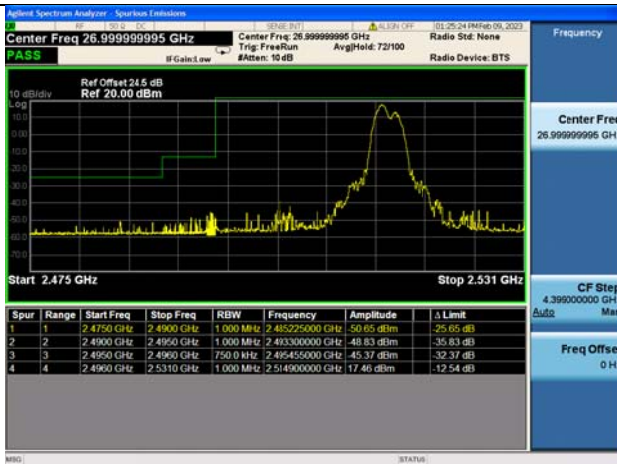
Low 1RB0 and 1RB74



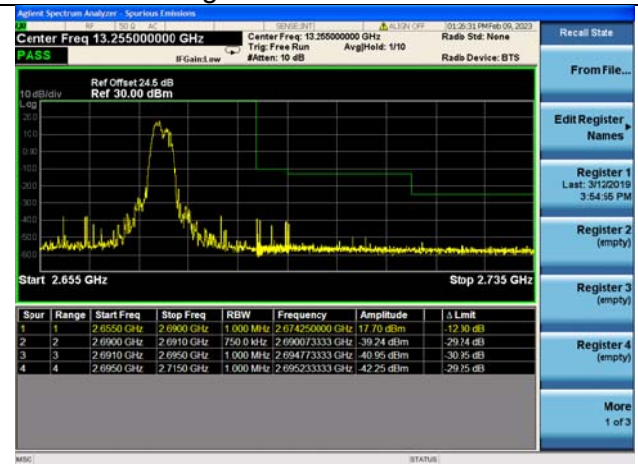
High 1RB0 and 1RB74



Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB

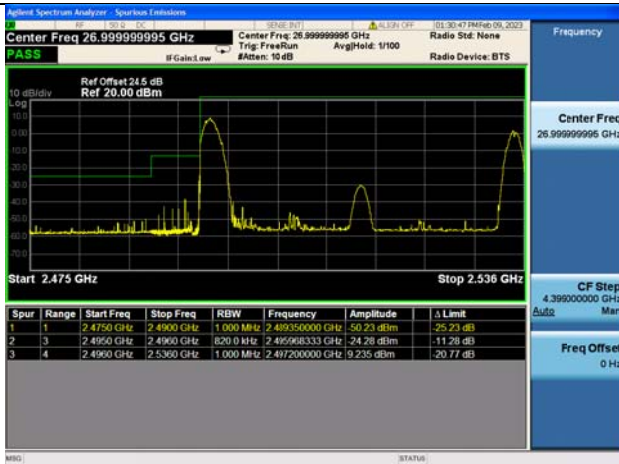




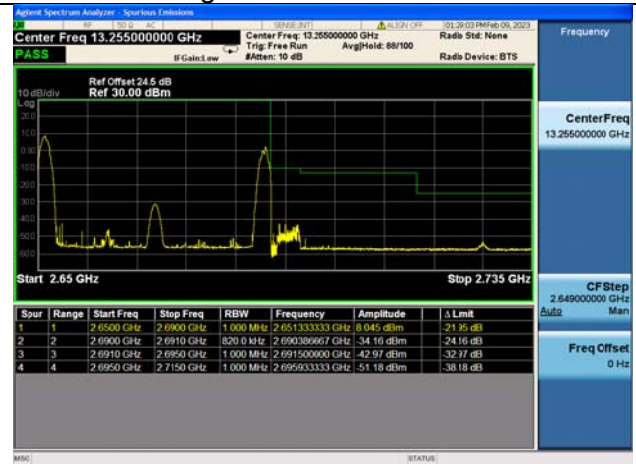
LTE CA 41C

Channel Bandwidth: 20MHz+20MHz

Low 1RB0 and 1RB99



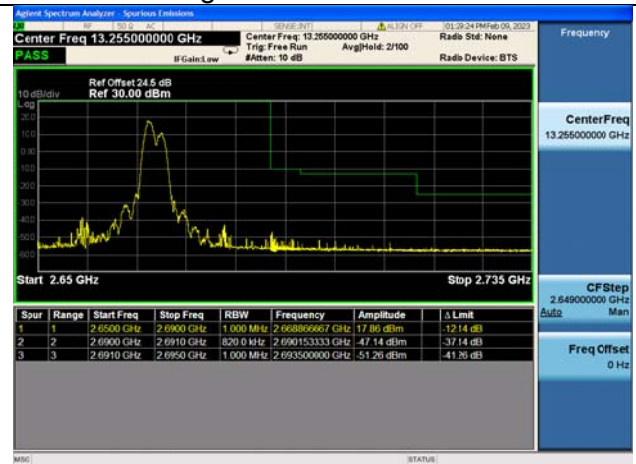
High 1RB0 and 1RB99



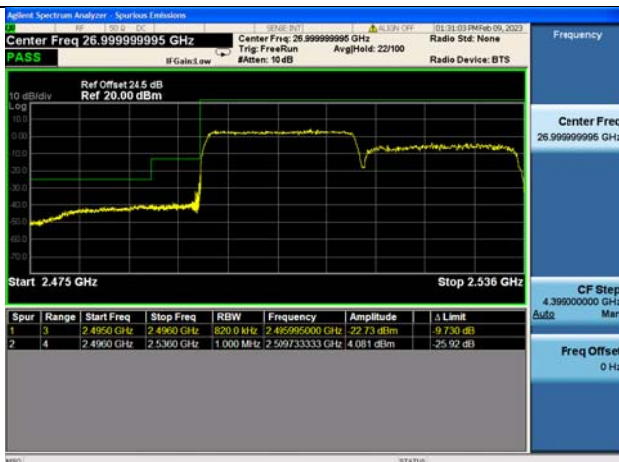
Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB

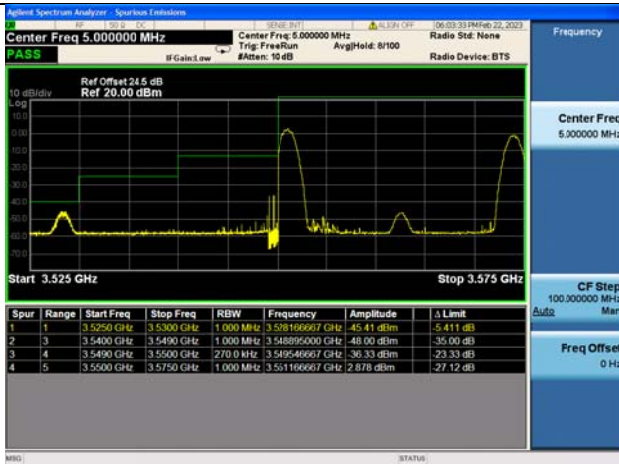




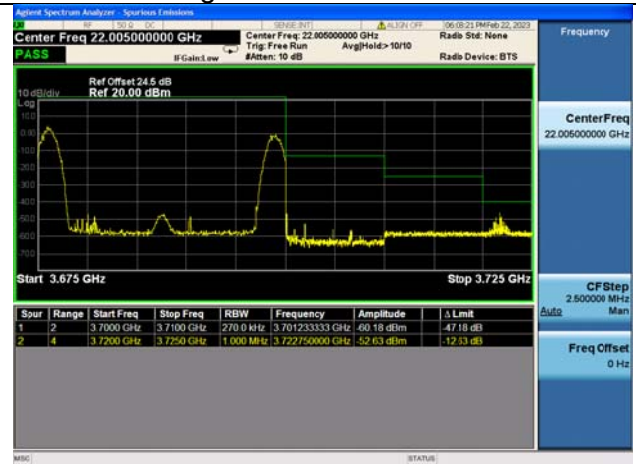
LTE CA 48C

Channel Bandwidth: 5MHz+20MHz

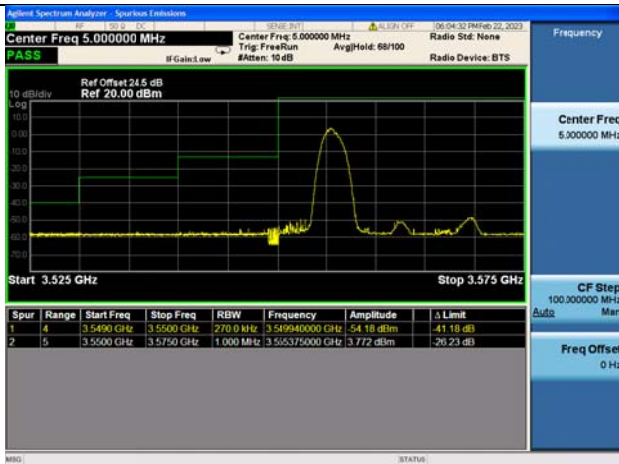
Low 1RB0 and 1RB99



High 1RB0 and 1RB99



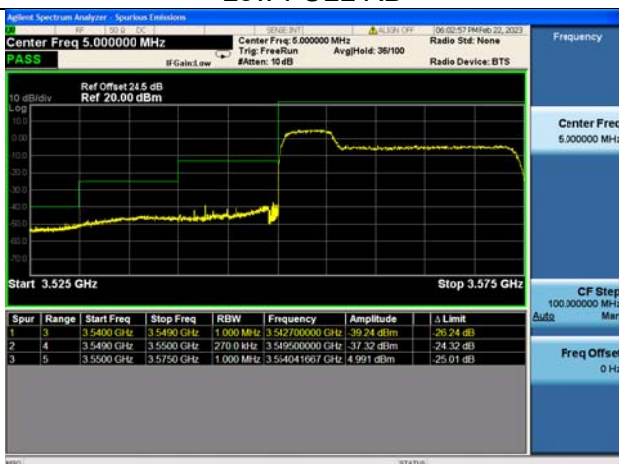
Low 1RB24 and 1RB0



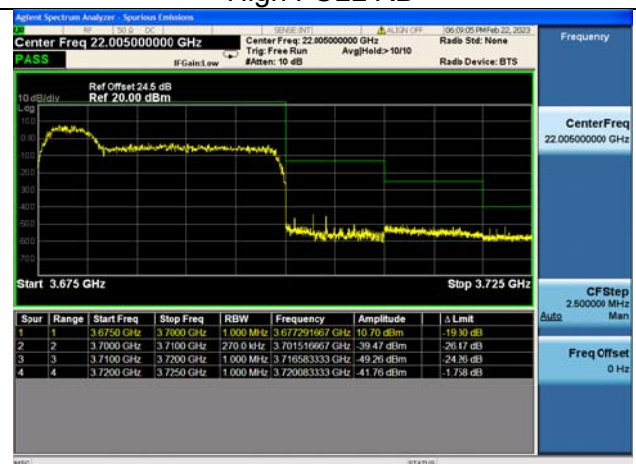
High 1RB24 and 1RB0



Low FULL RB



High FULL RB

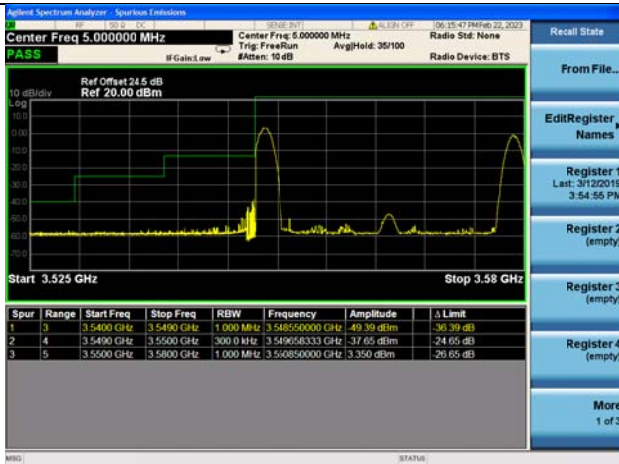




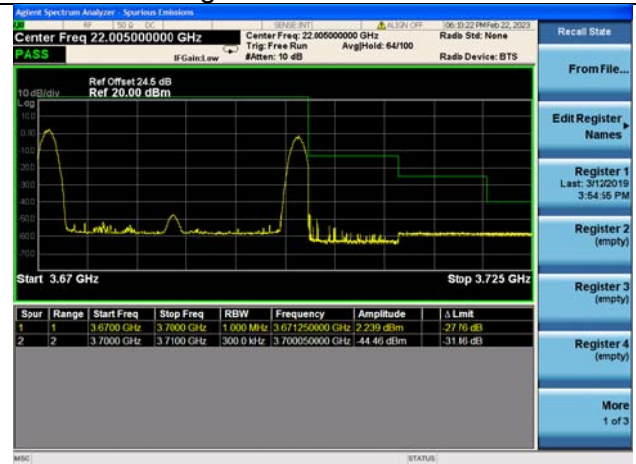
LTE CA 48C

Channel Bandwidth: 10MHz+20MHz

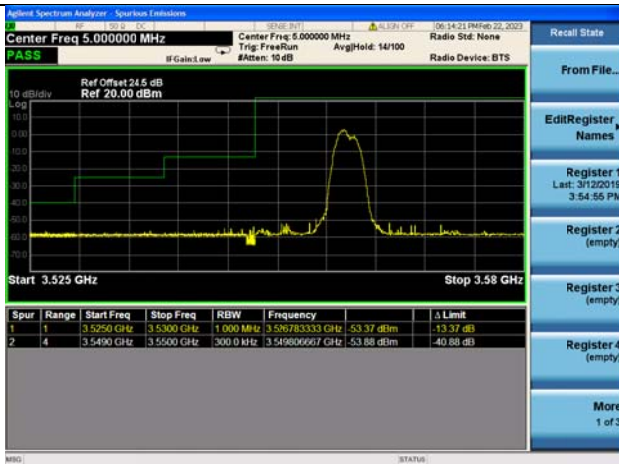
Low 1RB0 and 1RB99



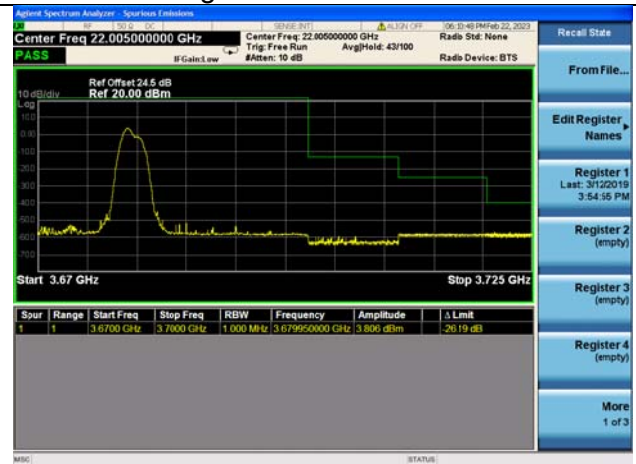
High 1RB0 and 1RB99



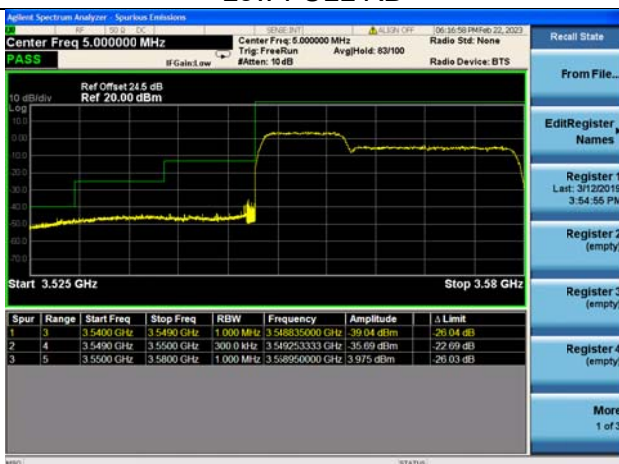
Low 1RB49 and 1RB0



High 1RB49 and 1RB0



Low FULL RB



High FULL RB



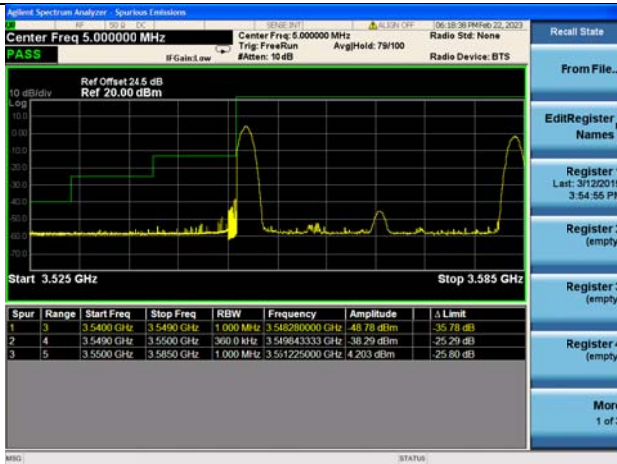


REPORT No.: SZ22120264W11

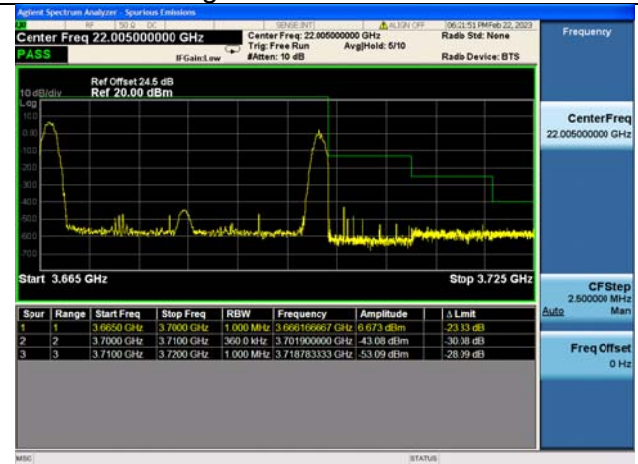
LTE CA 48C

Channel Bandwidth: 15MHz+20MHz

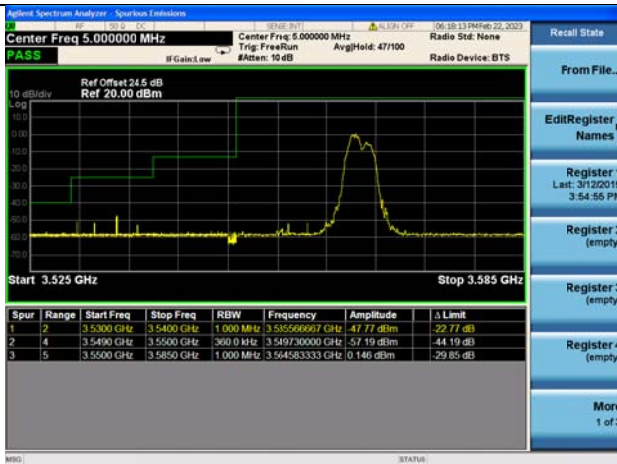
Low 1RB0 and 1RB99



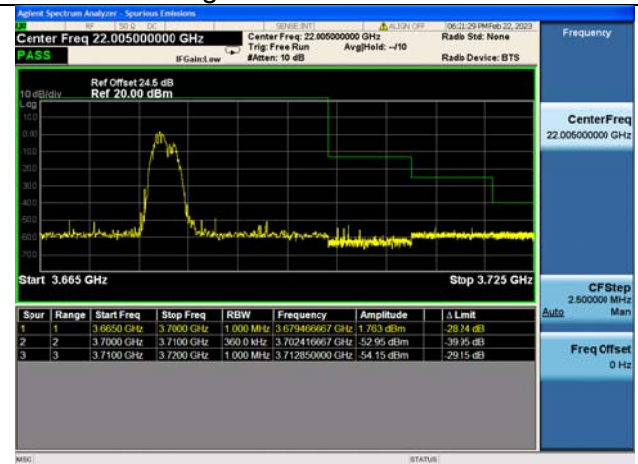
High 1RB0 and 1RB99



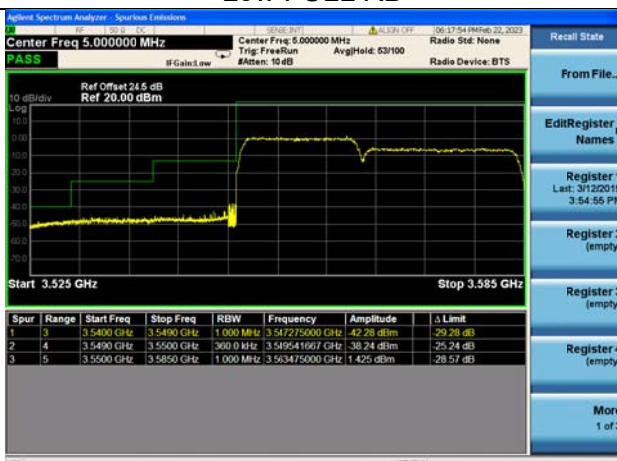
Low 1RB74 and 1RB0



High 1RB74 and 1RB0



Low FULL RB



High FULL RB

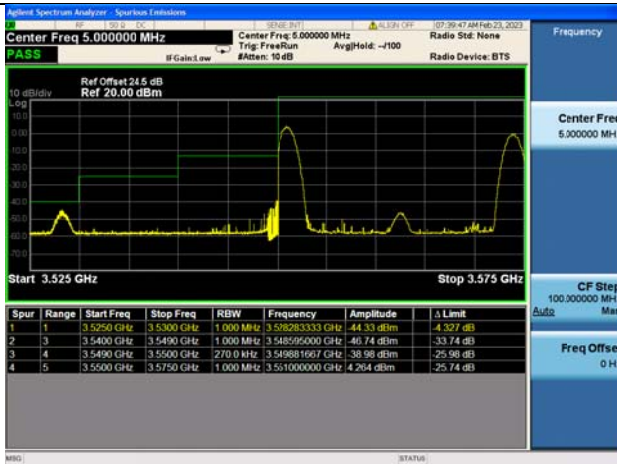




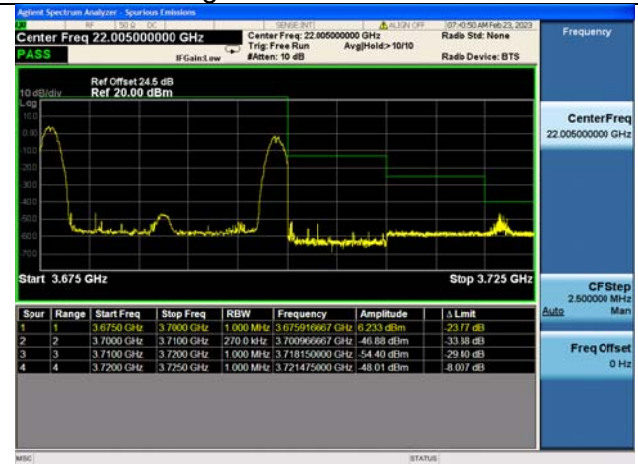
LTE CA 48C

Channel Bandwidth: 20MHz+5MHz

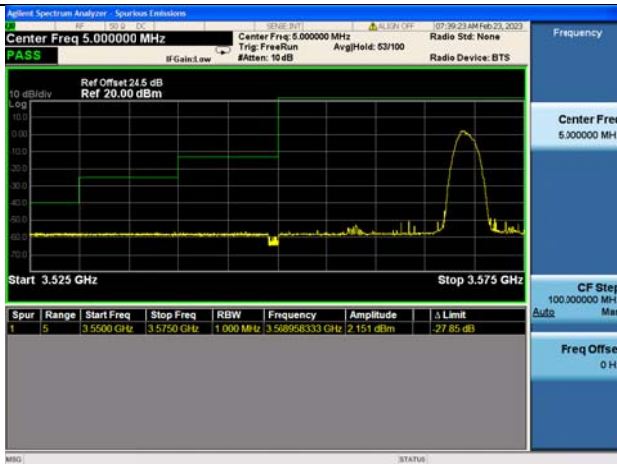
Low 1RB0 and 1RB24



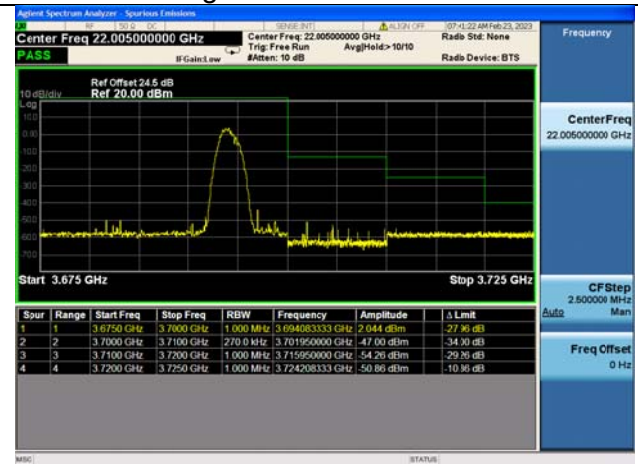
High 1RB0 and 1RB24



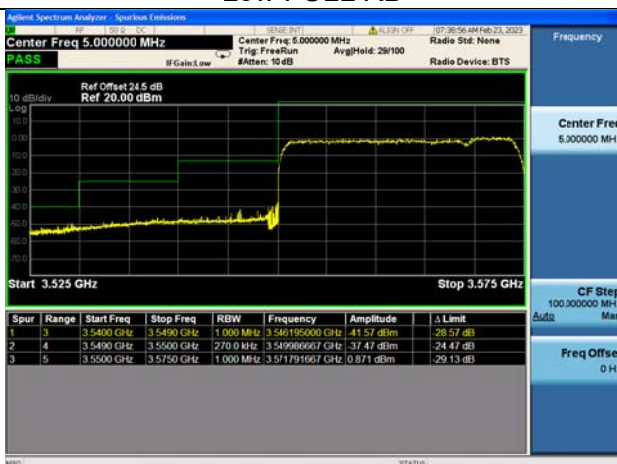
Low 1RB99 and 1RB0



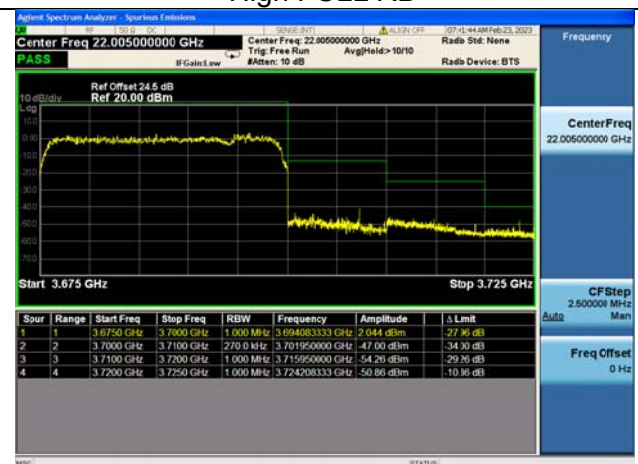
High 1RB99 and 1RB0



Low FULL RB



High FULL RB

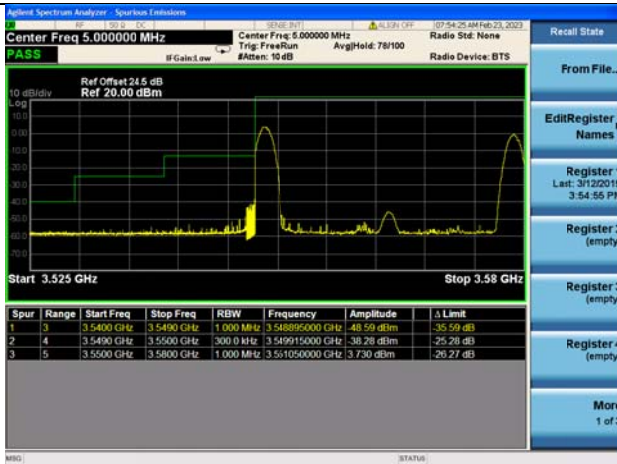




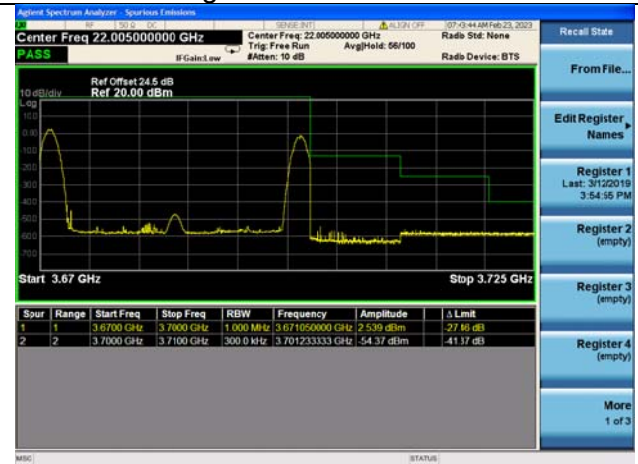
LTE CA 48C

Channel Bandwidth: 20MHz+10MHz

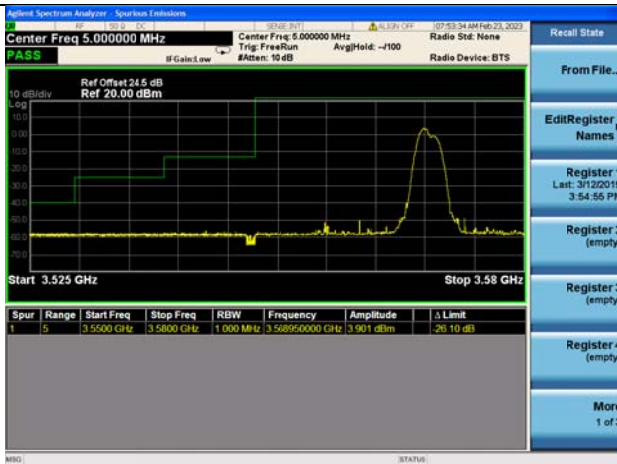
Low 1RB0 and 1RB49



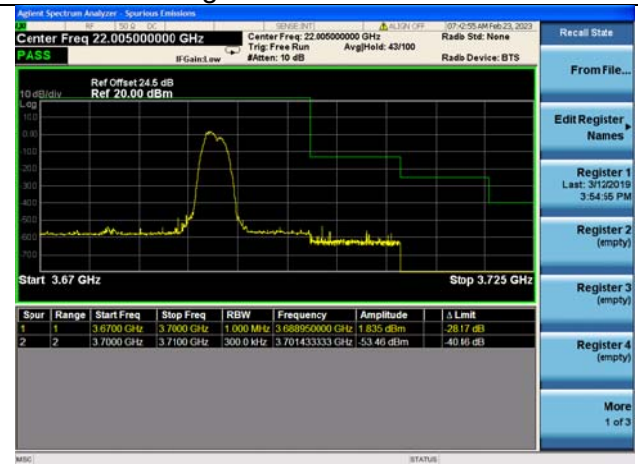
High 1RB0 and 1RB49



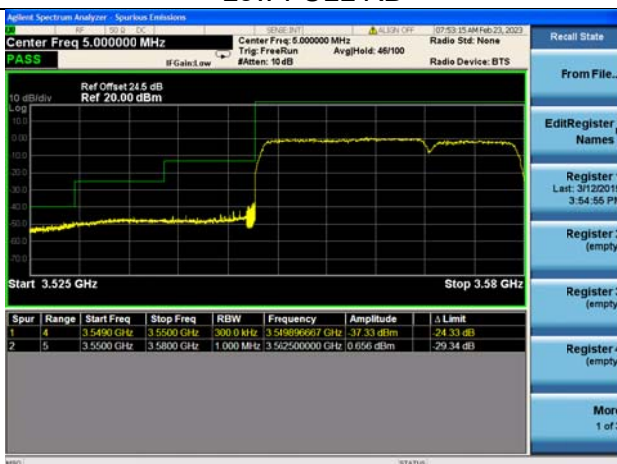
Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB

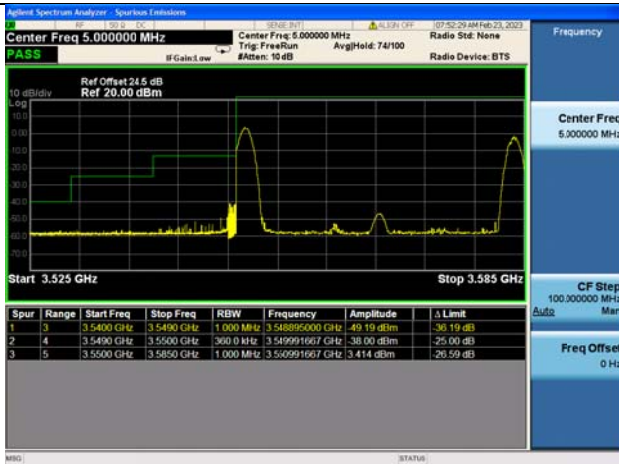




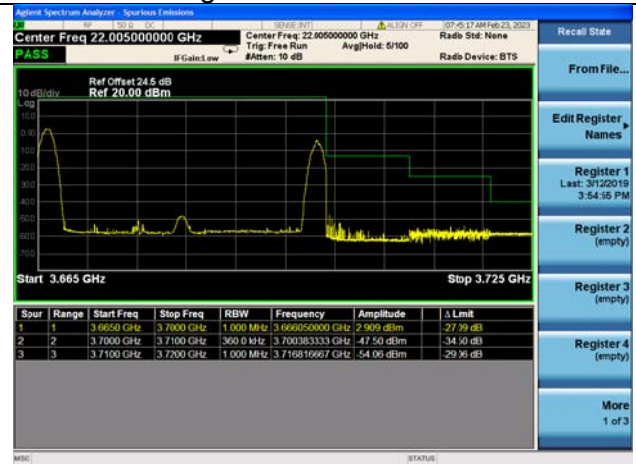
LTE CA 48C

Channel Bandwidth: 20MHz+15MHz

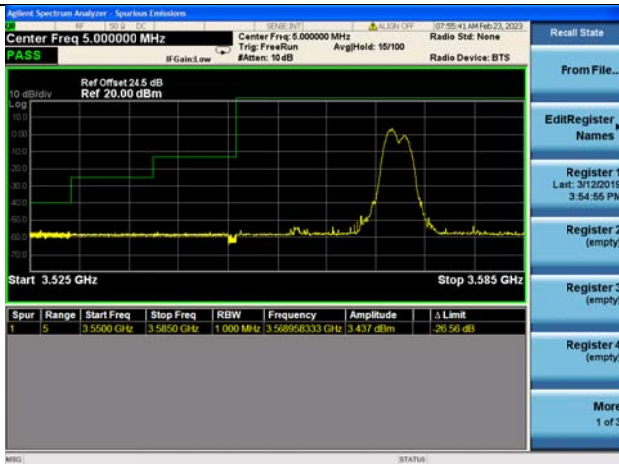
Low 1RB0 and 1RB74



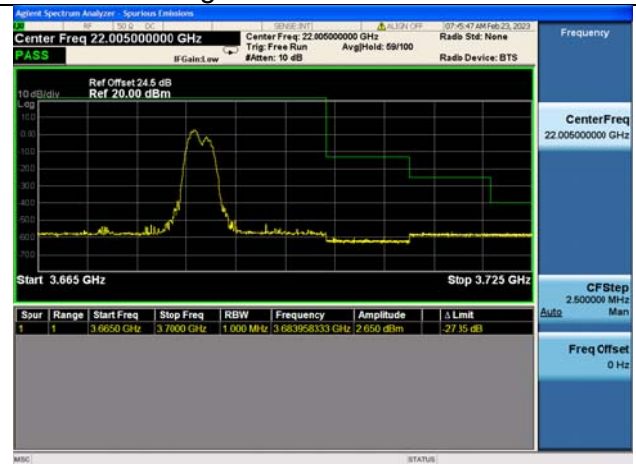
High 1RB0 and 1RB74



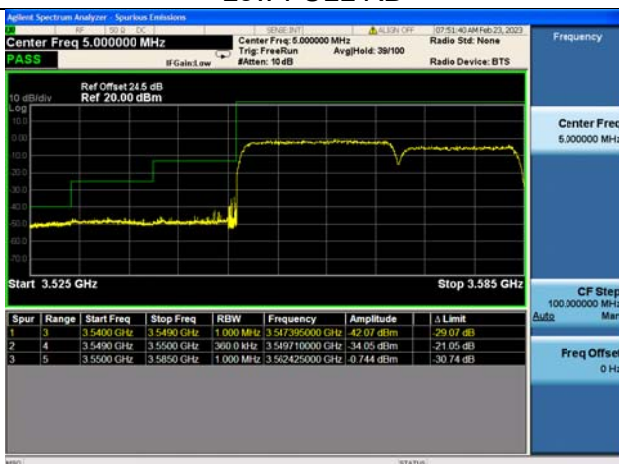
Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB

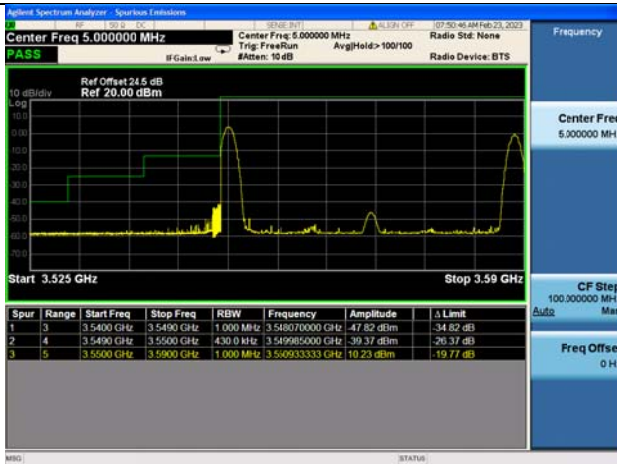




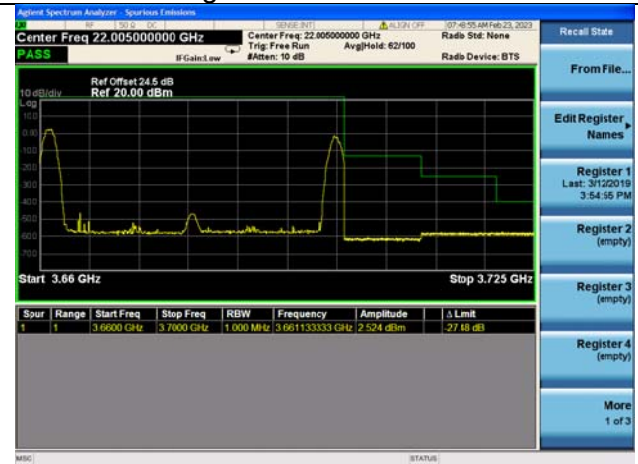
LTE CA 48C

Channel Bandwidth: 20MHz+20MHz

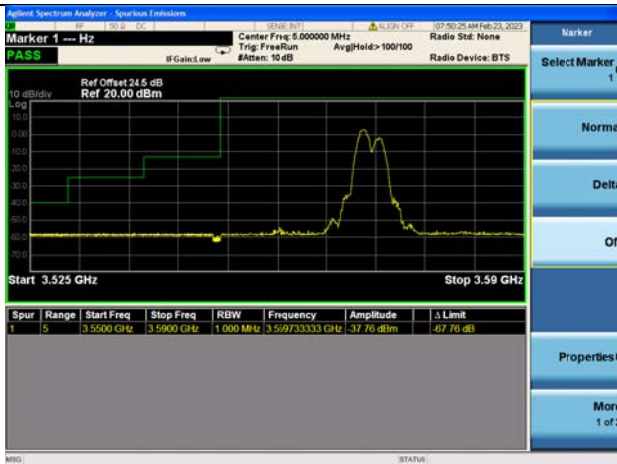
Low 1RB0 and 1RB99



High 1RB0 and 1RB99



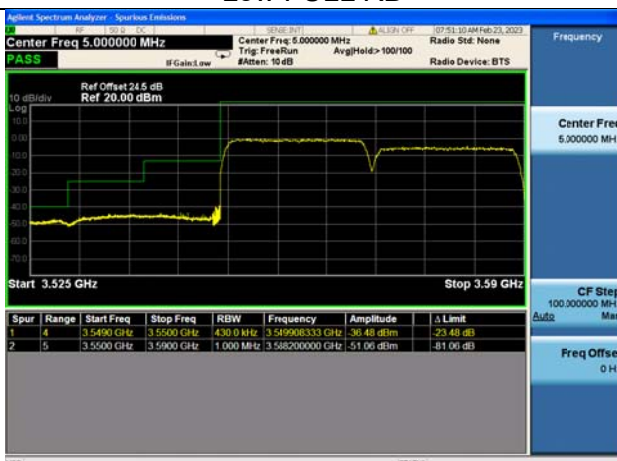
Low 1RB99 and 1RB0



High 1RB99 and 1RB0



Low FULL RB



High FULL RB



2.5. Radiated Spurious Emissions

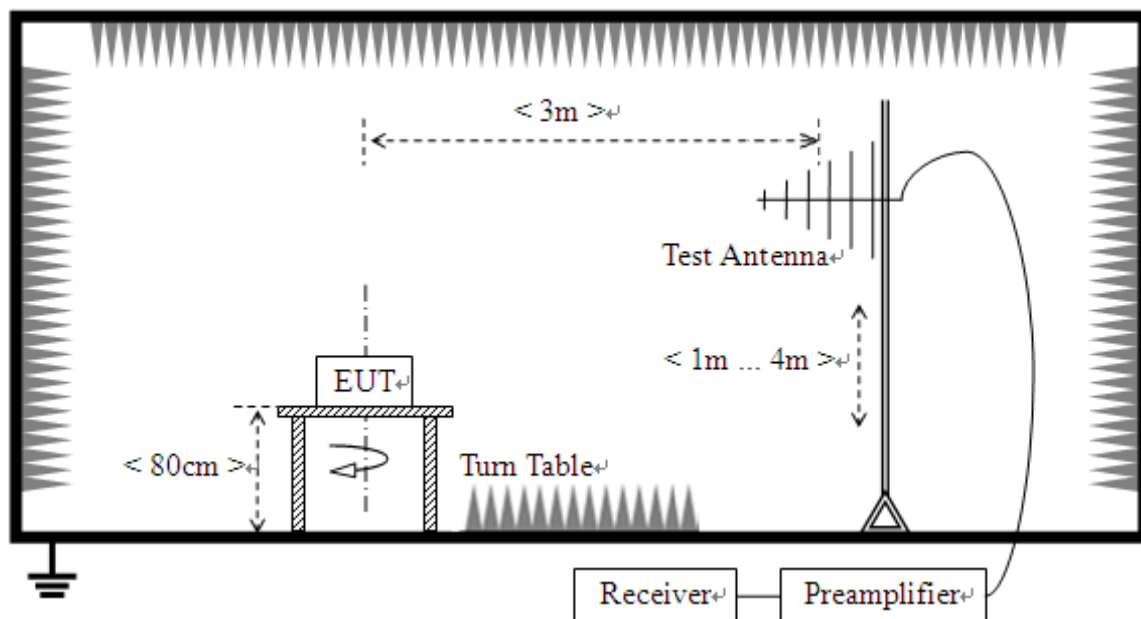
2.5.1. Requirement

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.

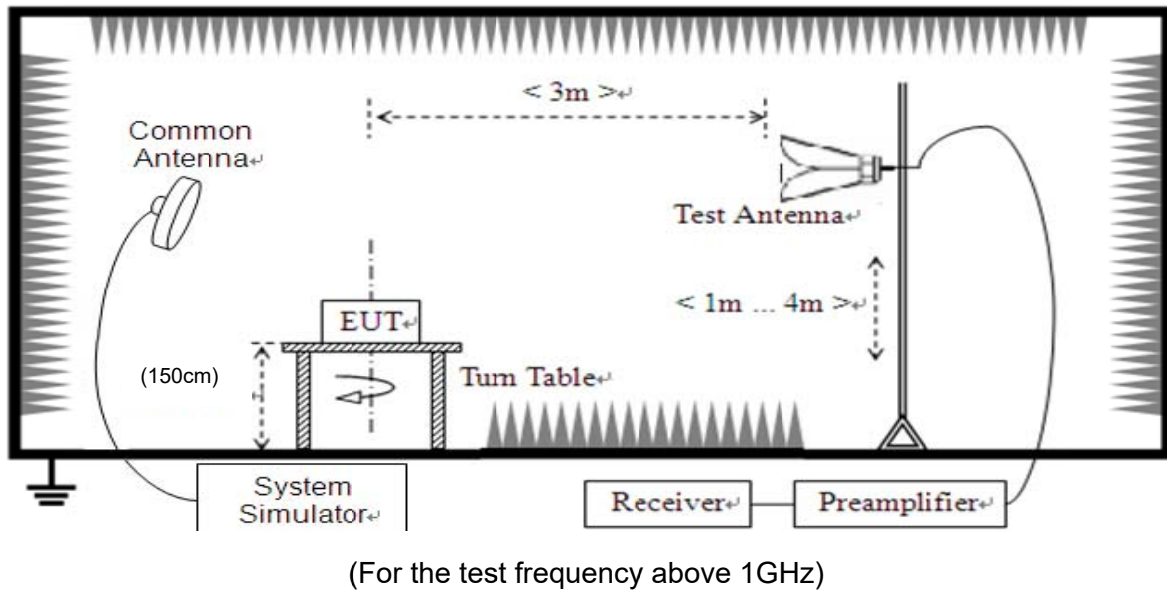
Additional requirement for LTE Band 41, The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \cdot \log(P)$ dB. This calculated to be -25dBm.

According to FCC section 96.41(e) for LTE Band 48, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

2.5.2. Test Description



(For the test frequency from 30MHz to 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.

2.5.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

2.5.4. 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.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

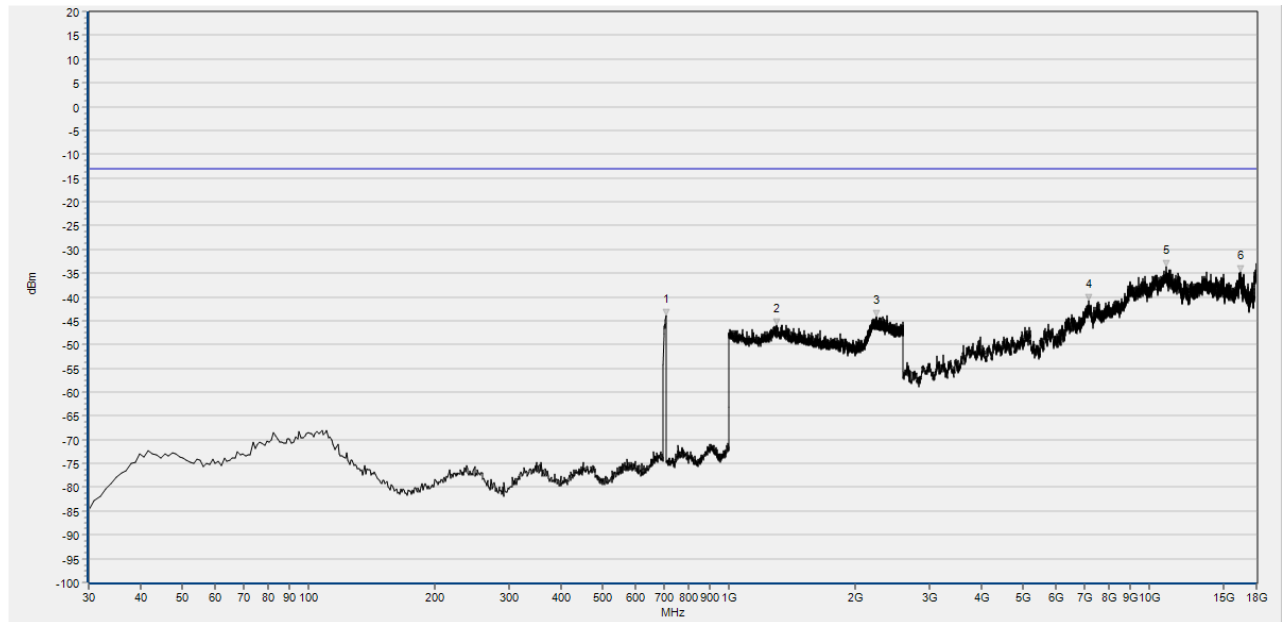
Note1: The power of the EUT transmitting frequency should be ignored.

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

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.

ANT 0:

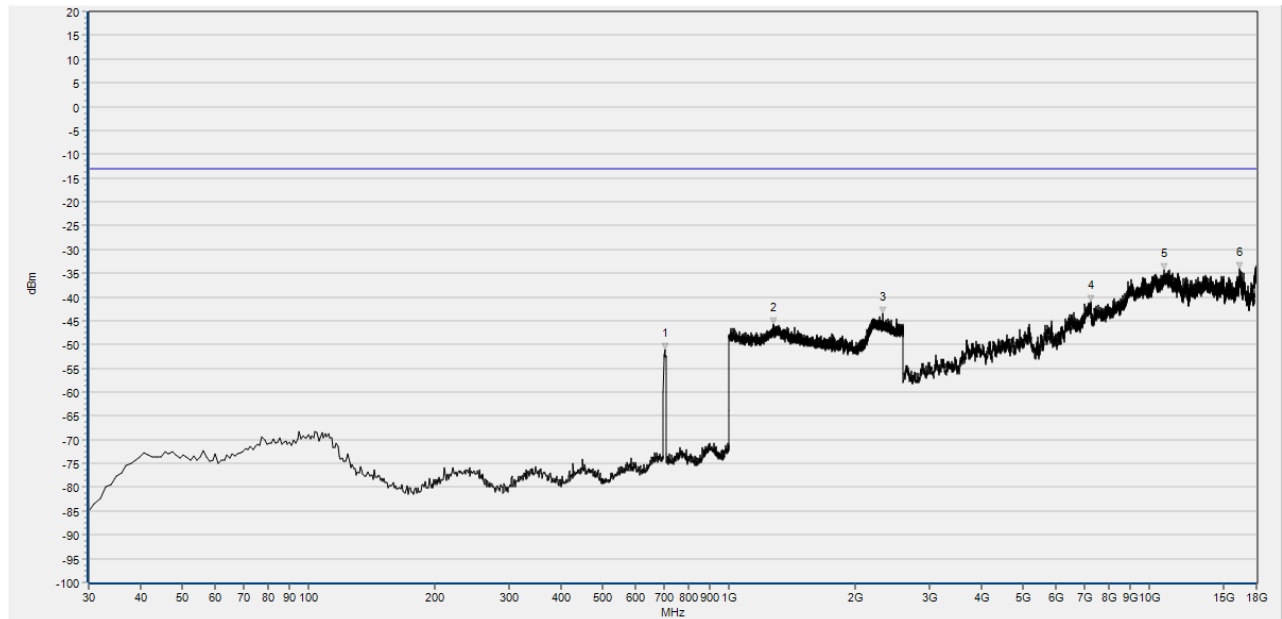
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	707.738	-43.85	-13.00	39.2	H	N/A
2	1301.434	-45.96	-13.00	359.9	H	PASS
3	2243.081	-44.19	-13.00	81.5	H	PASS
4	7187.037	-40.84	-13.00	91.1	H	PASS
5	11007.001	-33.56	-13.00	279.6	H	PASS
6	16527.465	-34.65	-13.00	266.6	H	PASS

2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 H

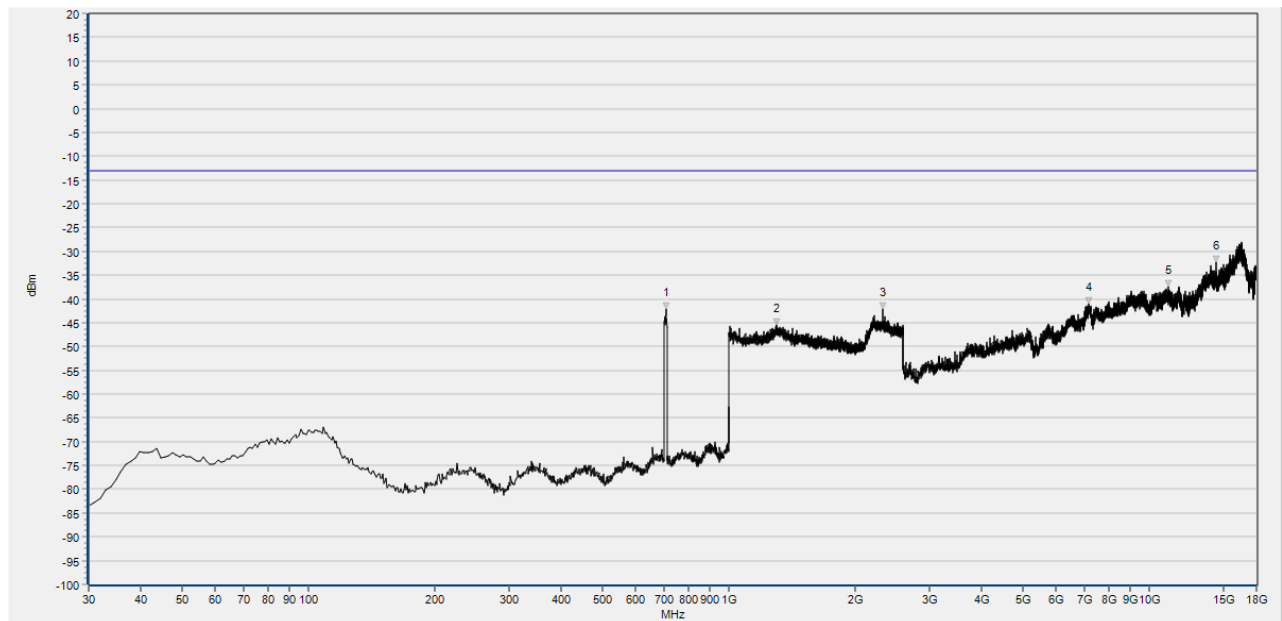
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	703.854	-51.03	-13.00	350.9	V	N/A
2	1273.691	-45.79	-13.00	331.8	V	PASS
3	2323.641	-43.55	-13.00	18.7	V	PASS
4	7251.730	-40.92	-13.00	142.3	V	PASS
5	10859.132	-34.28	-13.00	277.0	V	PASS
6	16416.563	-34.08	-13.00	290.0	V	PASS

2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 V

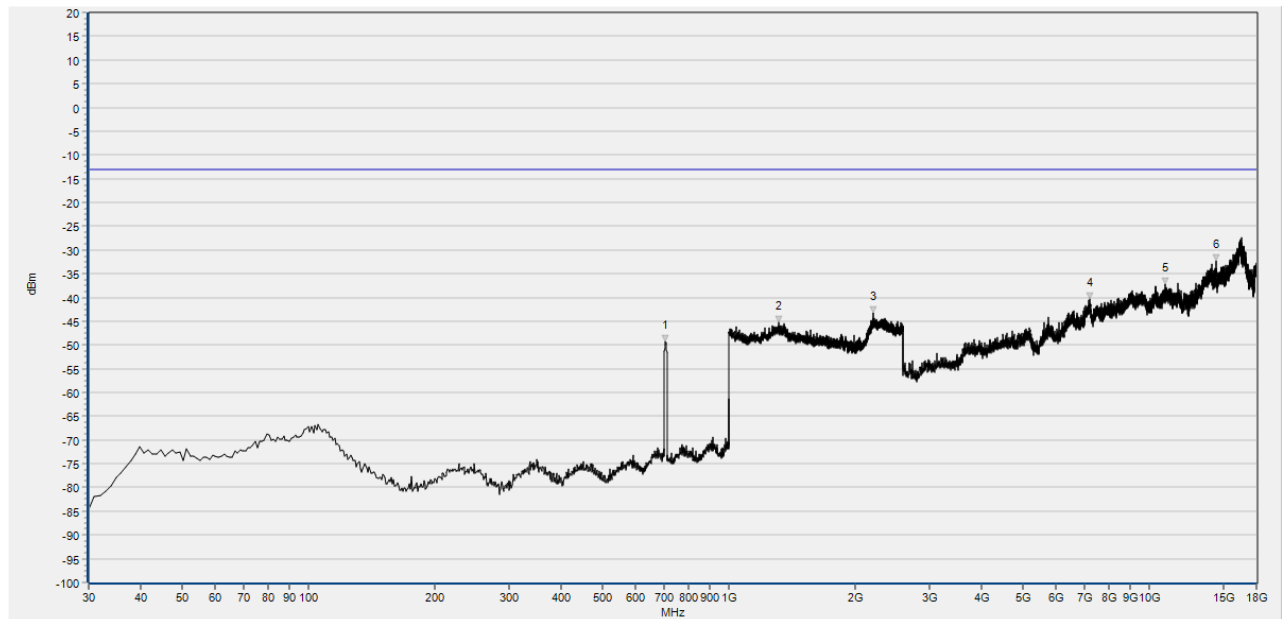
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	709.000	-42.10	-13.00	82.6	H	N/A
2	1295.798	-45.46	-13.00	4.4	H	PASS
3	2321.489	-42.22	-13.00	358.6	H	PASS
4	7181.633	-41.02	-13.00	294.9	H	PASS
5	11127.550	-37.54	-13.00	229.1	H	PASS
6	14415.348	-32.32	-13.00	255.1	H	PASS

2A_12A Mid 20M QPSK PCC RB 1 0 SCC RB 0 H

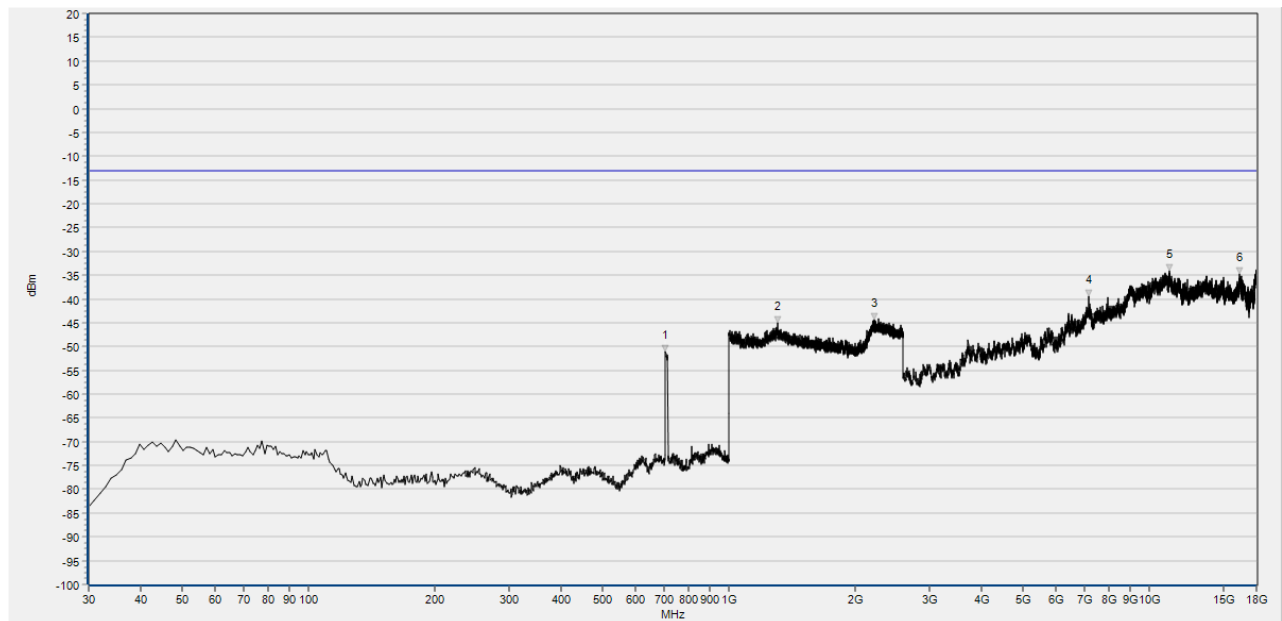
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	707.060	-49.32	-13.00	45.2	V	N/A
2	1313.725	-45.35	-13.00	345.1	V	PASS
3	2210.084	-43.27	-13.00	227.2	V	PASS
4	7218.040	-40.32	-13.00	247.6	V	PASS
5	10892.308	-37.32	-13.00	247.6	V	PASS
6	14412.548	-32.29	-13.00	234.6	V	PASS

2A_12A Mid 20M QPSK PCC RB 1 0 SCC RB 0 V

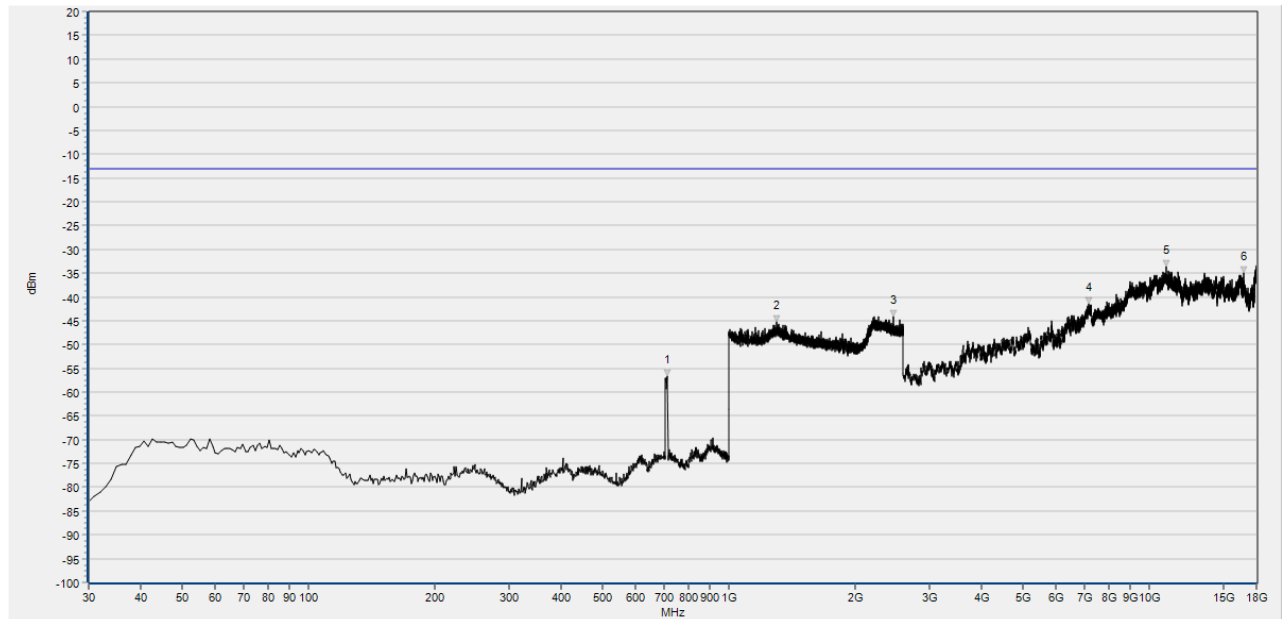
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	706.767	-51.06	-13.00	26.6	H	N/A
2	1304.635	-44.94	-13.00	135.9	H	PASS
3	2213.204	-44.42	-13.00	16.8	H	PASS
4	7171.634	-39.53	-13.00	6.9	H	PASS
5	11201.080	-34.14	-13.00	266.9	H	PASS
6	16428.886	-34.78	-13.00	1.4	H	PASS

2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 H

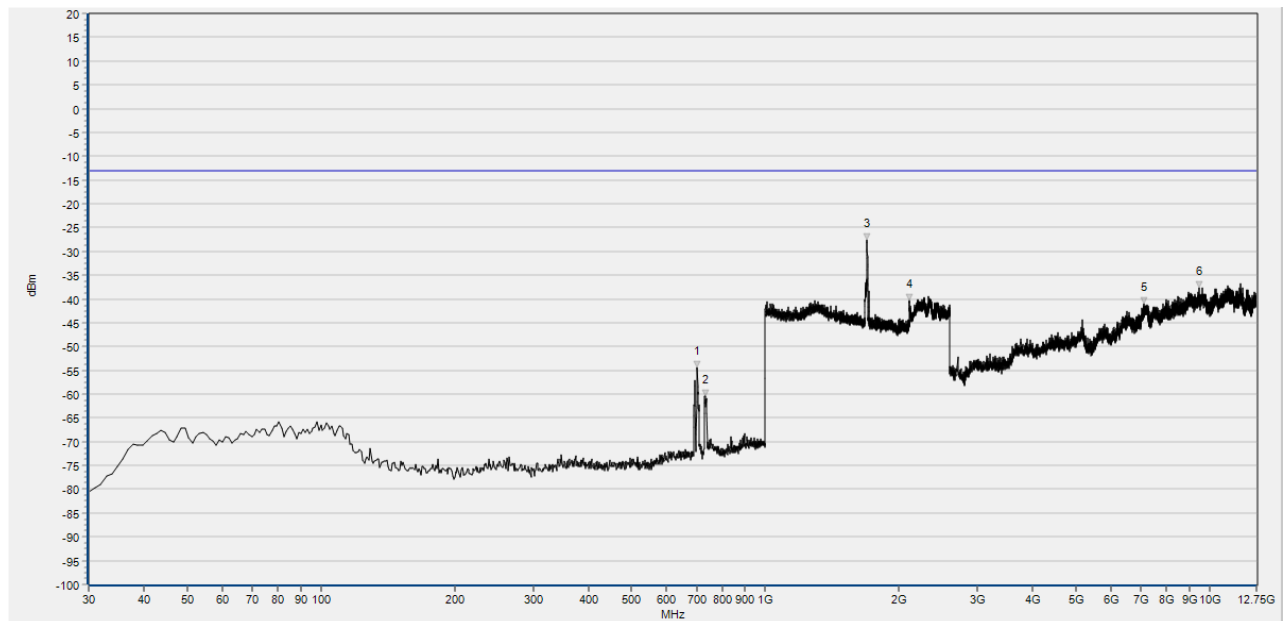
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	712.593	-56.73	-13.00	358.0	V	N/A
2	1296.632	-45.29	-13.00	86.2	V	PASS
3	2457.019	-44.21	-13.00	38.9	V	PASS
4	7177.796	-41.50	-13.00	358.9	V	PASS
5	10988.518	-33.71	-13.00	360.0	V	PASS
6	16813.963	-35.07	-13.00	32.8	V	PASS

2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 V

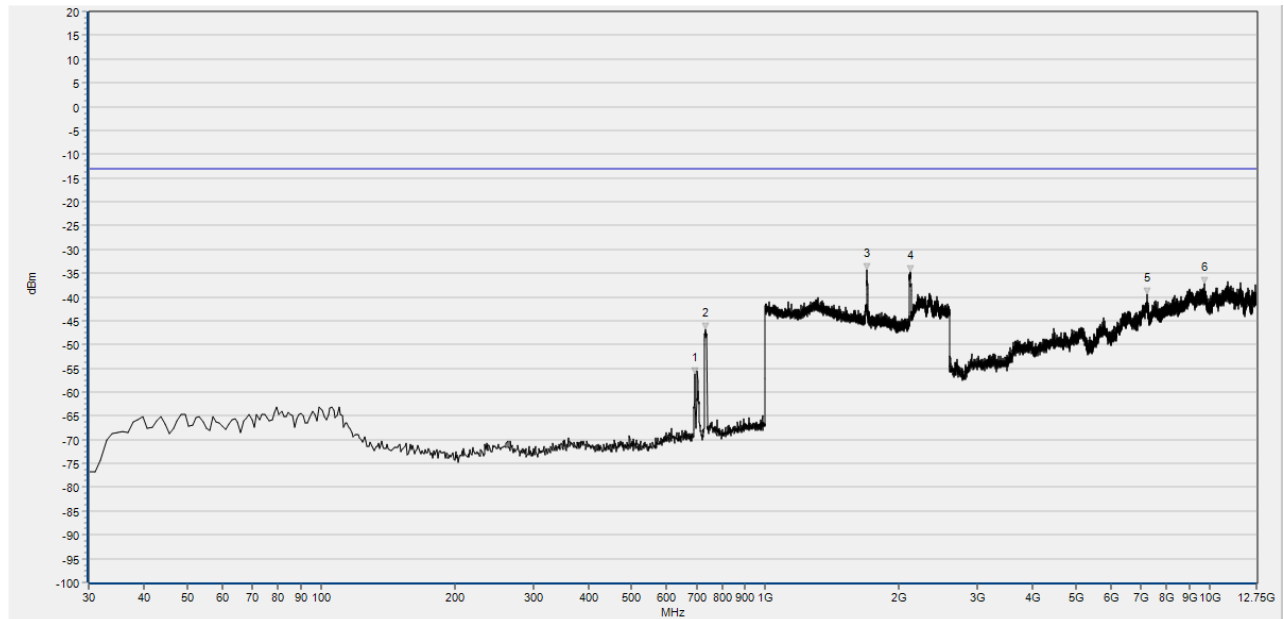
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	701.912	-54.47	-13.00	45.2	H	N/A
2	732.012	-60.42	-13.00	301.9	H	N/A
3	1695.699	-27.62	-13.00	25.0	H	N/A
4	2112.904	-40.40	-13.00	357.4	H	N/A
5	7097.349	-41.12	-13.00	42.6	H	PASS
6	9485.107	-37.56	-13.00	290.7	H	PASS

12A_66A Low 20M QPSK PCC RB 1 0 SCC RB 0 H

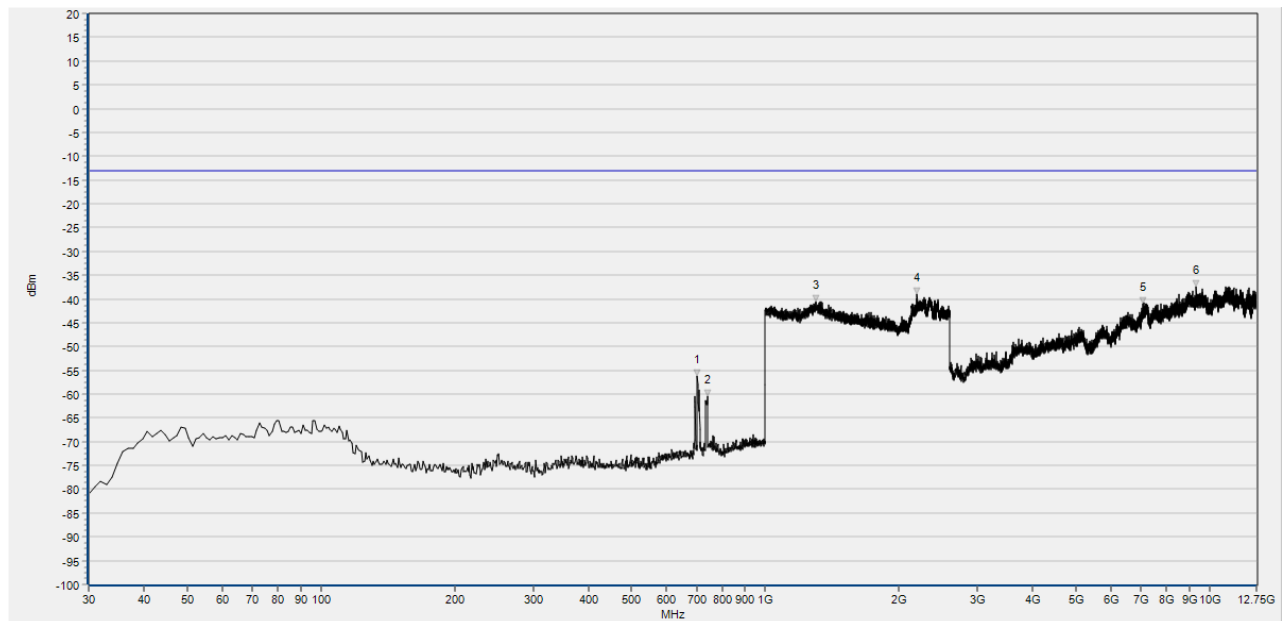
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	695.115	-56.16	-13.00	210.9	V	N/A
2	732.983	-46.76	-13.00	204.6	V	N/A
3	1694.632	-34.35	-13.00	356.0	V	N/A
4	2119.306	-34.79	-13.00	335.0	V	N/A
5	7237.447	-39.41	-13.00	56.2	V	PASS
6	9714.543	-37.30	-13.00	56.2	V	PASS

12A_66A Low 20M QPSK PCC RB 1 0 SCC RB 0 V

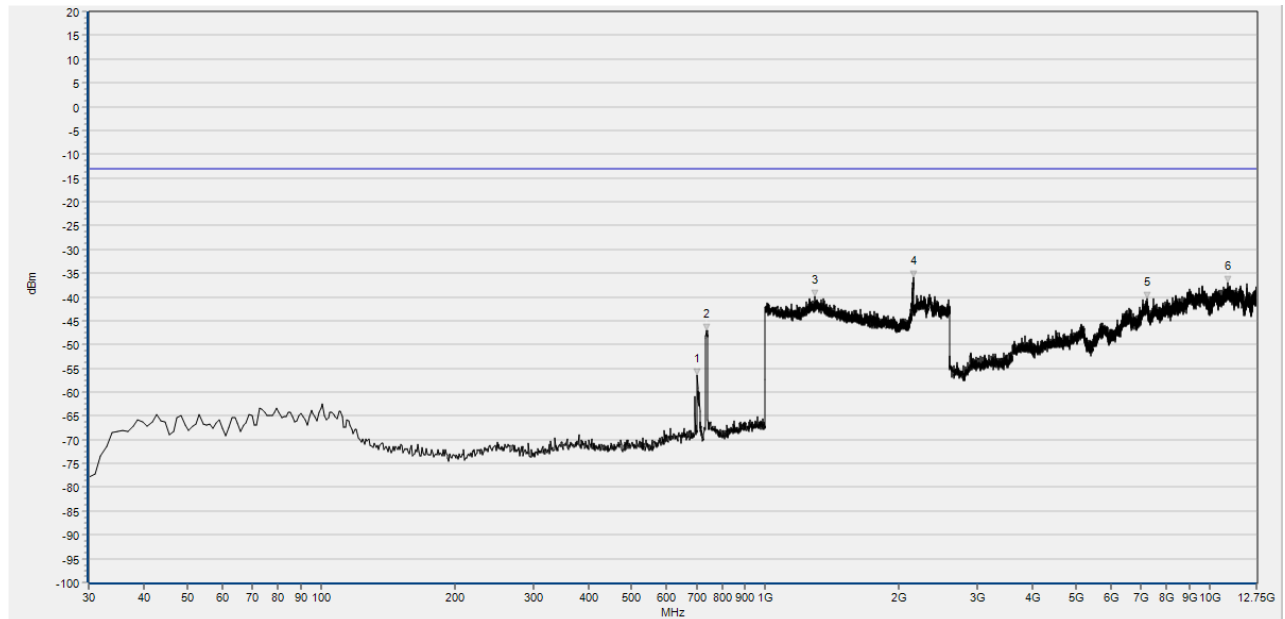
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	702.883	-56.29	-13.00	45.2	H	N/A
2	740.751	-60.42	-13.00	100.3	H	N/A
3	1299.300	-40.60	-13.00	351.4	H	PASS
4	2198.266	-38.91	-13.00	343.6	H	PASS
5	7093.289	-41.01	-13.00	305.6	H	PASS
6	9342.979	-37.51	-13.00	305.6	H	PASS

12A_66A Mid 20M QPSK PCC RB 1 0 SCC RB 0 H

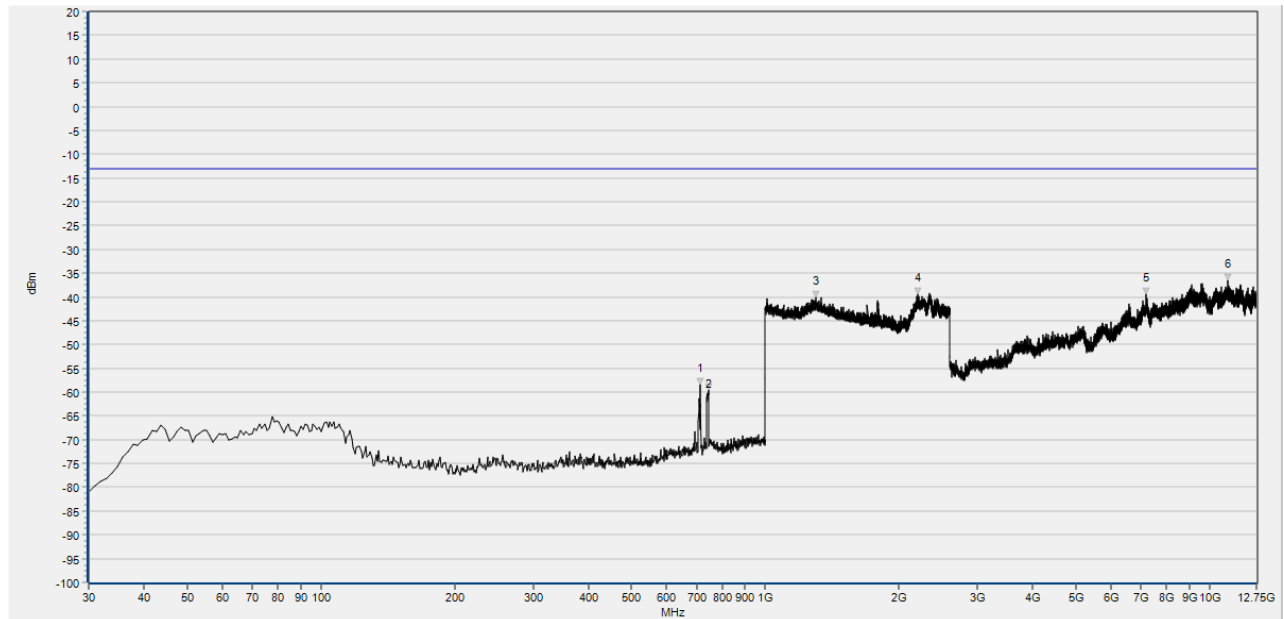
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	702.883	-56.45	-13.00	204.0	V	N/A
2	737.838	-47.01	-13.00	277.3	V	N/A
3	1291.297	-39.91	-13.00	118.3	V	PASS
4	2153.451	-35.89	-13.00	309.5	V	N/A
5	7243.539	-40.38	-13.00	179.5	V	PASS
6	10967.303	-37.01	-13.00	179.5	V	PASS

12A_66A Mid 20M QPSK PCC RB 1 0 SCC RB 0 V

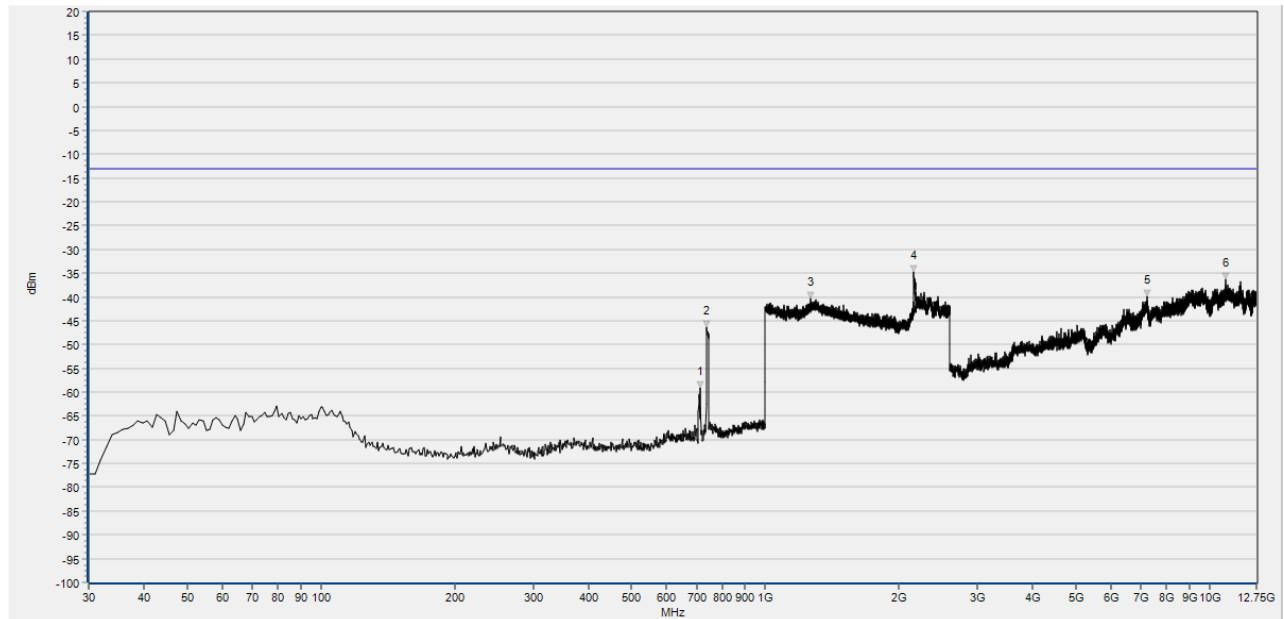
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	713.564	-58.44	-13.00	320.6	H	N/A
2	743.664	-59.46	-13.00	113.1	H	N/A
3	1300.900	-40.07	-13.00	343.2	H	PASS
4	2203.601	-39.42	-13.00	19.5	H	PASS
5	7182.627	-39.49	-13.00	84.1	H	PASS
6	10965.273	-36.53	-13.00	309.9	H	PASS

12A_66A High 20M QPSK PCC RB 1 0 SCC RB 0 H

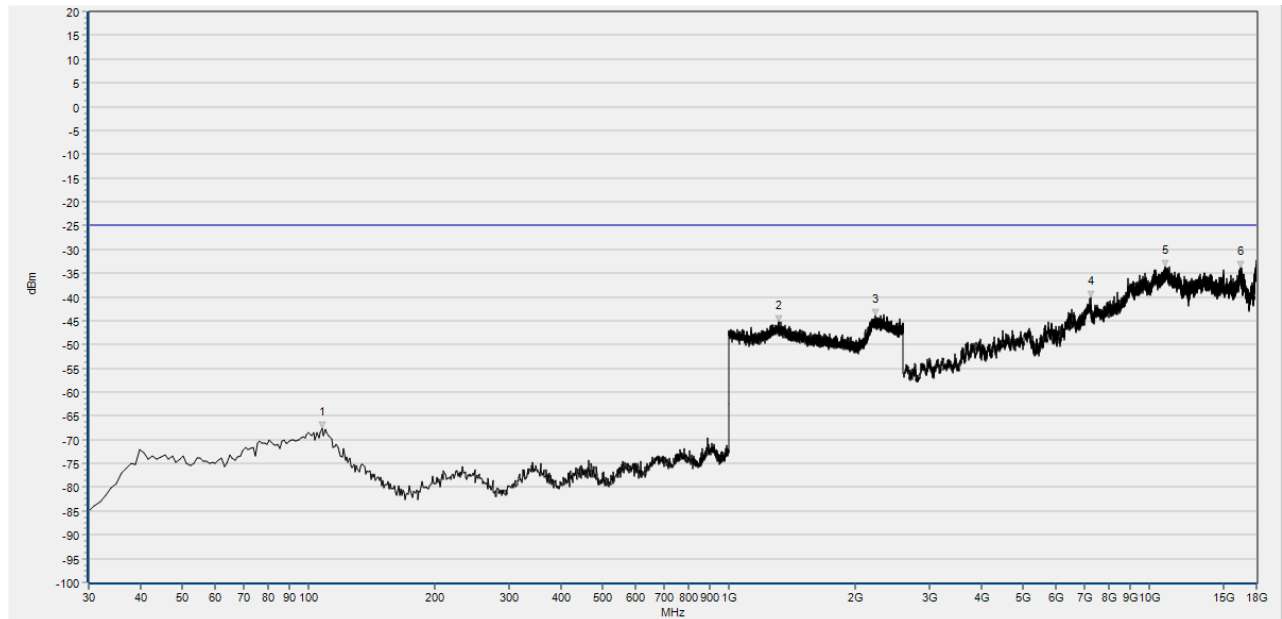
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	713.564	-59.19	-13.00	211.3	V	N/A
2	737.838	-46.34	-13.00	199.0	V	N/A
3	1262.487	-40.29	-13.00	155.7	V	PASS
4	2161.454	-34.69	-13.00	2.3	V	N/A
5	7231.356	-39.98	-13.00	1.9	V	PASS
6	10855.631	-36.20	-13.00	360.0	V	PASS

12A_66A High 20M QPSK PCC RB 1 0 SCC RB 0 V

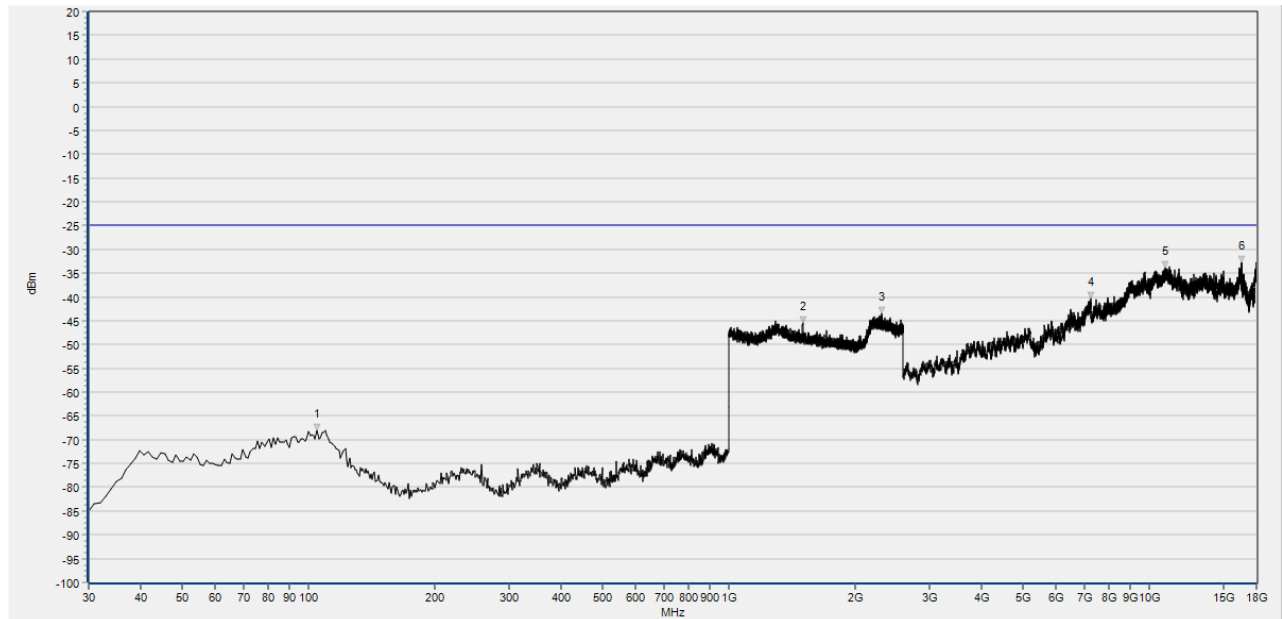
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	107.678	-67.71	-25.00	360.0	H	PASS
2	1312.104	-45.14	-25.00	182.9	H	PASS
3	2229.743	-43.95	-25.00	231.7	H	PASS
4	7273.295	-40.03	-25.00	252.5	H	PASS
5	10929.986	-33.72	-25.00	21.3	H	PASS
6	16533.627	-33.82	-25.00	21.3	H	PASS

CA_41C Low 20M QPSK PCC RB 1 0 SCC RB 0 H

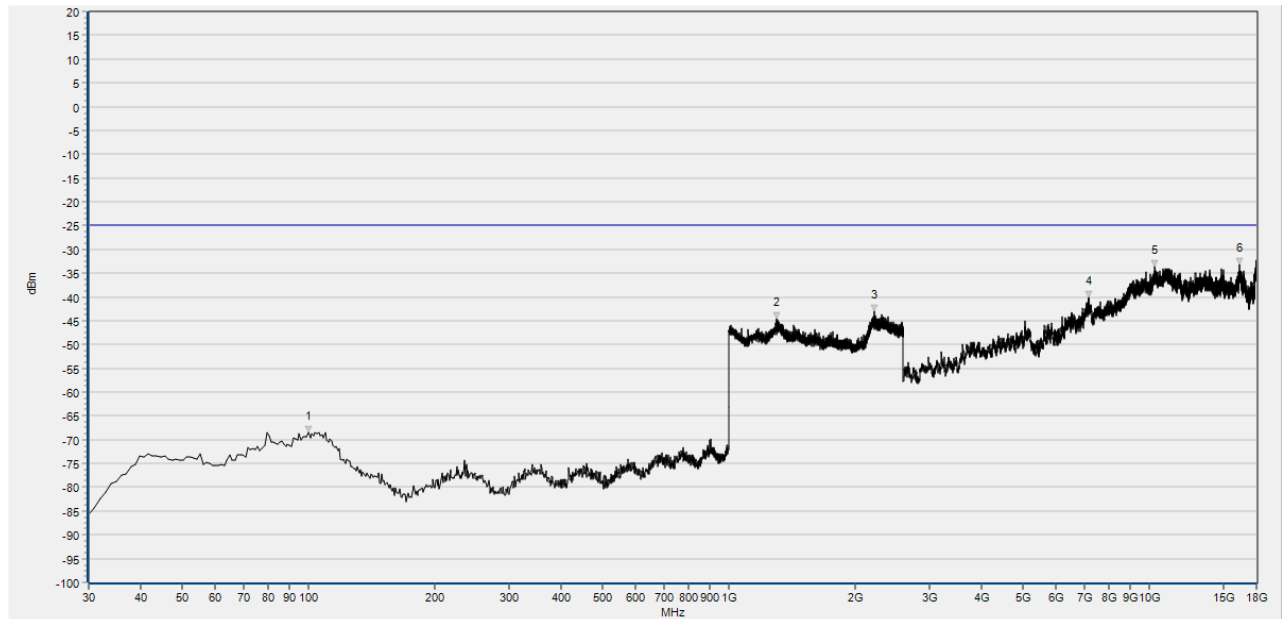
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	104.765	-68.01	-25.00	51.2	V	PASS
2	1498.299	-45.56	-25.00	99.2	V	PASS
3	2306.569	-43.57	-25.00	342.8	V	PASS
4	7254.811	-40.39	-25.00	196.4	V	PASS
5	10920.744	-33.87	-25.00	82.6	V	PASS
6	16570.594	-32.78	-25.00	222.5	V	PASS

CA_41C Low 20M QPSK PCC RB 1 0 SCC RB 0 V

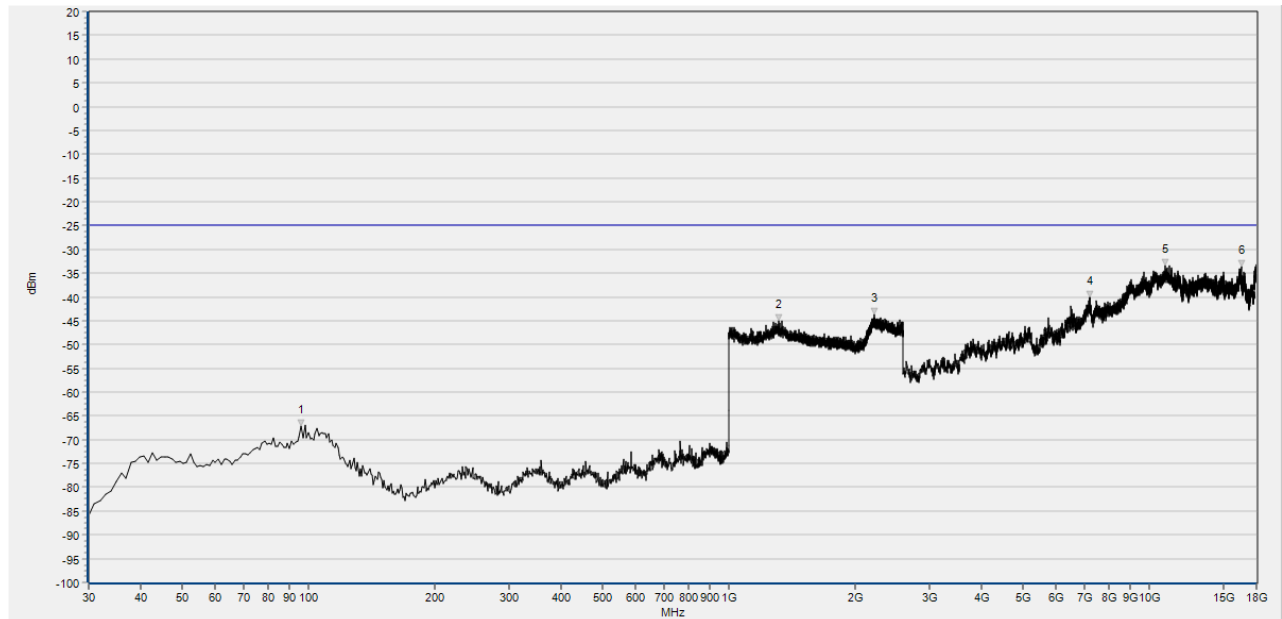
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	99.910	-68.39	-25.00	0.0	H	PASS
2	1297.166	-44.68	-25.00	245.1	H	PASS
3	2213.738	-43.07	-25.00	107.2	H	PASS
4	7162.392	-40.12	-25.00	83.6	H	PASS
5	10329.266	-33.65	-25.00	297.8	H	PASS
6	16379.596	-33.12	-25.00	108.1	H	PASS

CA_41C Mid 20M QPSK PCC RB 1 0 SCC RB 0 H

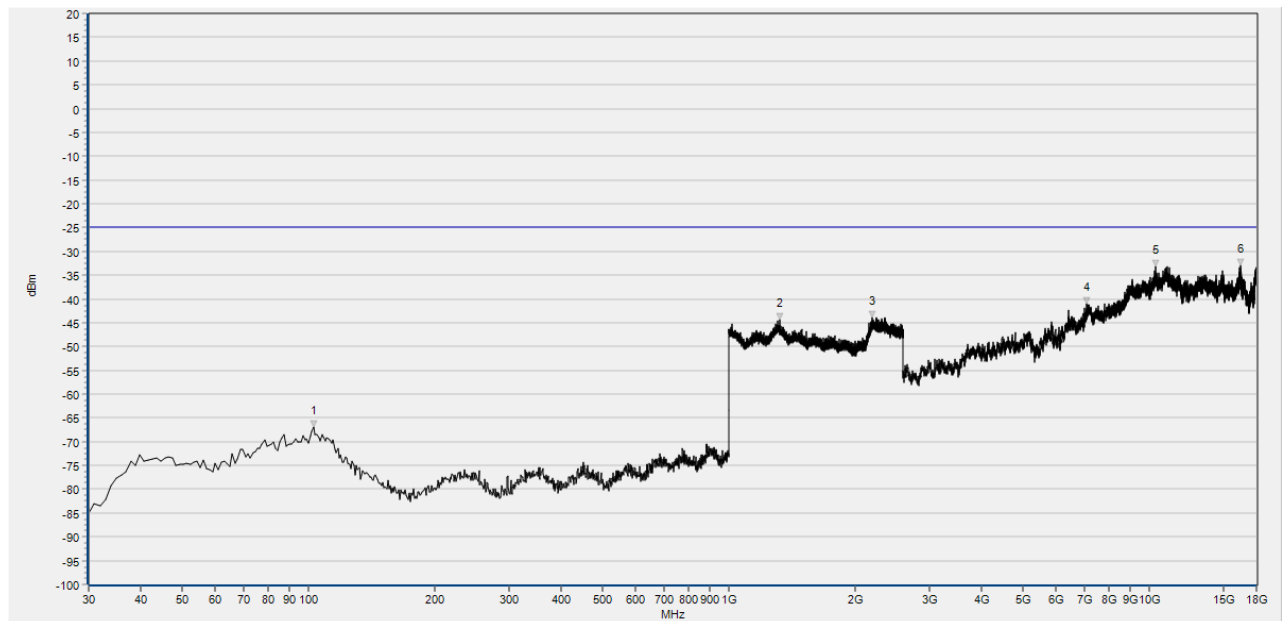
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	96.026	-67.17	-25.00	0.0	V	PASS
2	1314.772	-45.10	-25.00	249.8	V	PASS
3	2223.341	-43.70	-25.00	257.6	V	PASS
4	7227.085	-40.11	-25.00	245.7	V	PASS
5	10893.019	-33.48	-25.00	327.6	V	PASS
6	16545.949	-33.72	-25.00	295.2	V	PASS

CA_41C Mid 20M QPSK PCC RB 1 0 SCC RB 0 V

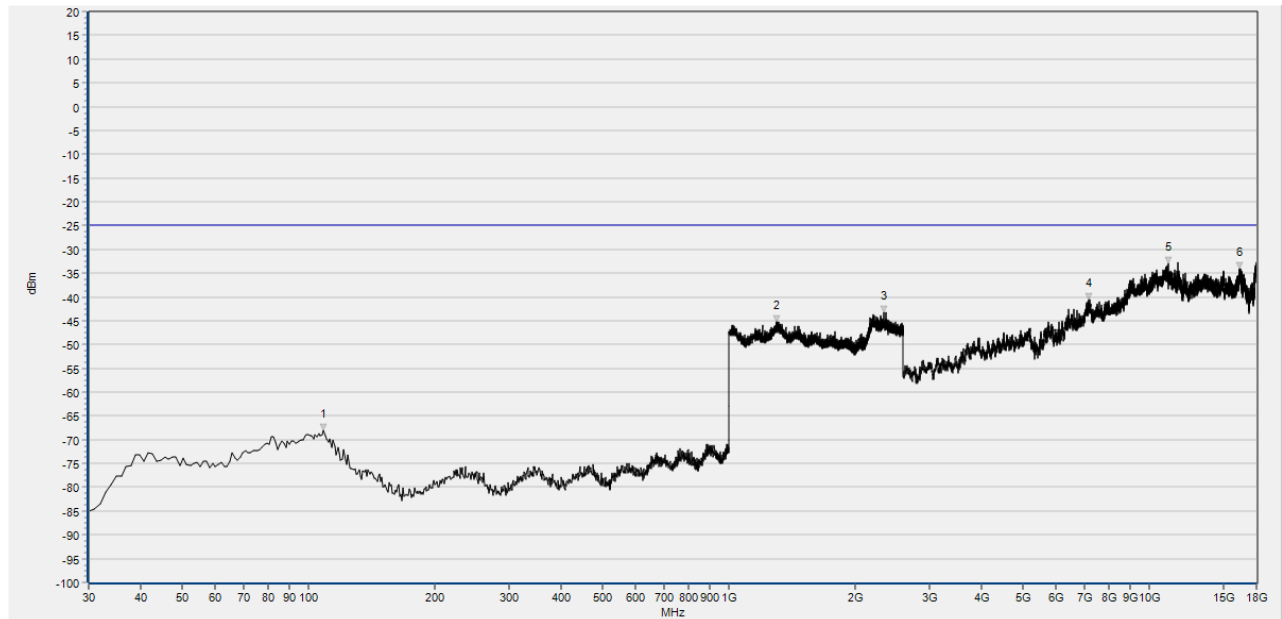
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	102.823	-67.04	-25.00	0.0	H	PASS
2	1321.174	-44.45	-25.00	228.4	H	PASS
3	2194.532	-44.00	-25.00	278.6	H	PASS
4	7094.619	-41.03	-25.00	0.0	H	PASS
5	10353.911	-33.29	-25.00	35.9	H	PASS
6	16542.869	-32.85	-25.00	134.9	H	PASS

CA_41C High 20M QPSK PCC RB 1 0 SCC RB 0 H

Test Graph



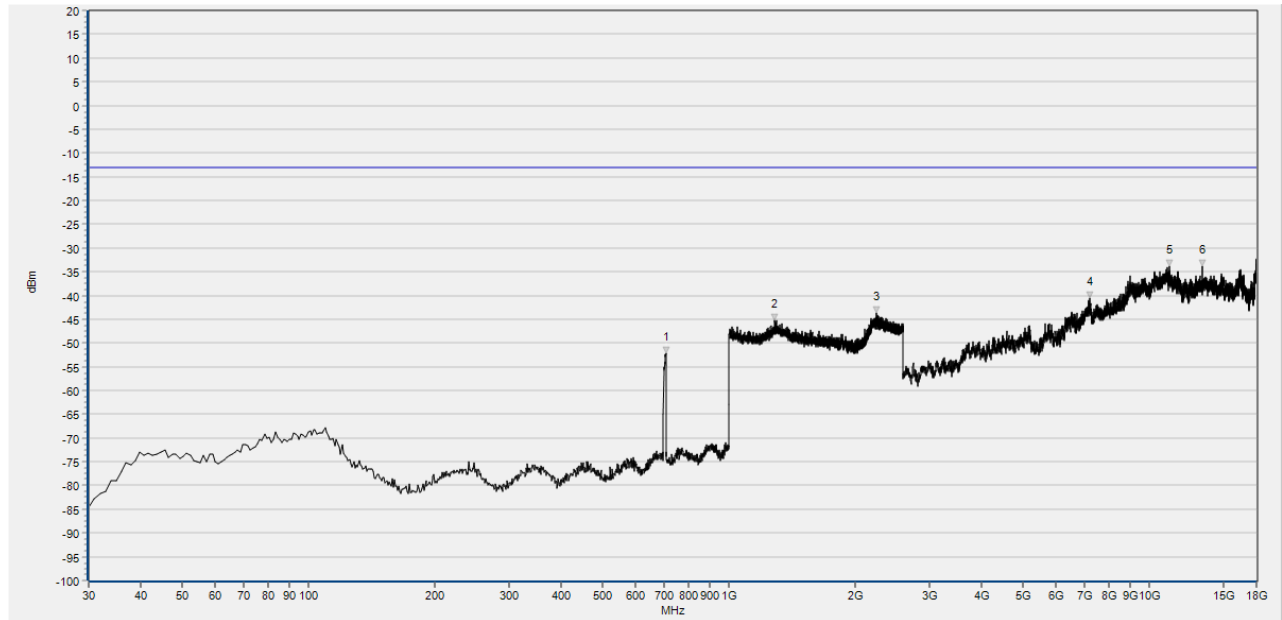
Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	108.649	-67.96	-25.00	0.0	V	PASS
2	1300.367	-45.24	-25.00	336.7	V	PASS
3	2336.445	-43.27	-25.00	222.5	V	PASS
4	7165.473	-40.51	-25.00	248.4	V	PASS
5	11133.307	-32.88	-25.00	174.0	V	PASS
6	16438.128	-34.12	-25.00	248.4	V	PASS

CA_41C High 20M QPSK PCC RB 1 0 SCC RB 0 V



ANT 1:

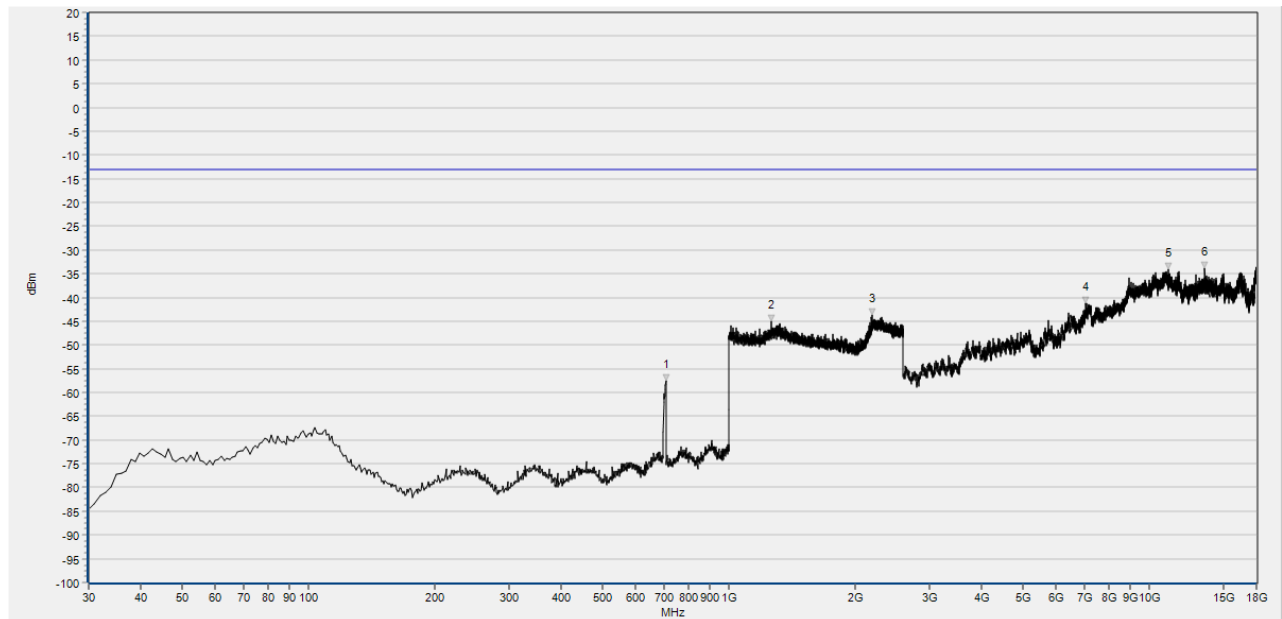
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	707.738	-52.15	-13.00	229.2	H	PASS
2	1287.563	-45.29	-13.00	0.4	H	PASS
3	2246.816	-43.62	-13.00	110.0	H	PASS
4	7224.005	-40.54	-13.00	19.4	H	PASS
5	11145.629	-33.96	-13.00	93.0	H	PASS
6	13397.560	-33.96	-13.00	142.5	H	PASS

2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 H

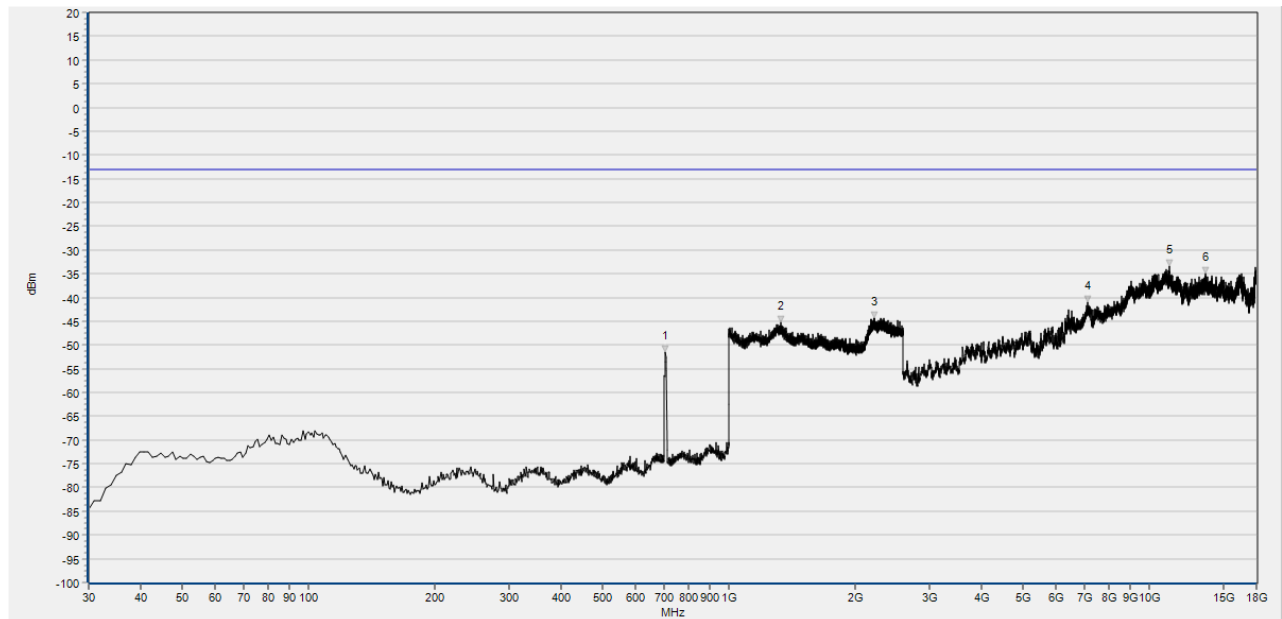
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	707.738	-57.58	-13.00	235.4	V	N/A
2	1264.088	-45.09	-13.00	288.1	V	PASS
3	2195.065	-43.76	-13.00	208.5	V	PASS
4	7076.135	-41.17	-13.00	340.6	V	PASS
5	11136.387	-34.18	-13.00	155.4	V	PASS
6	13576.235	-33.78	-13.00	167.7	V	PASS

2A_12A Low 20M QPSK PCC RB 1 0 SCC RB 0 V

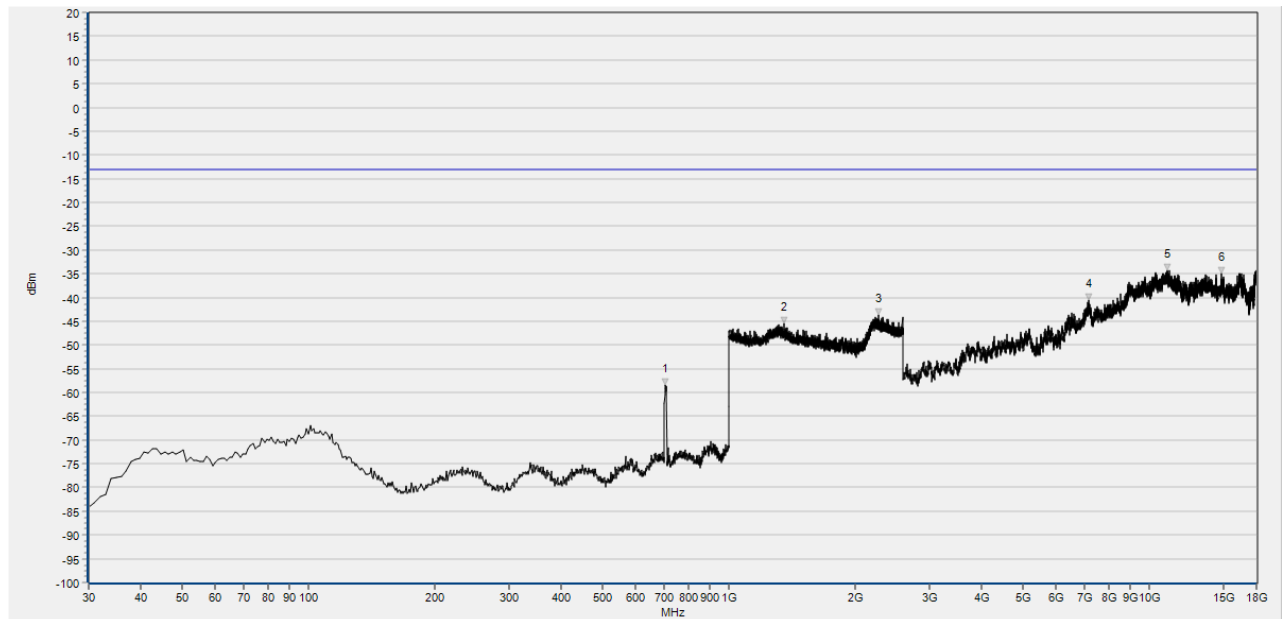
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	706.767	-51.42	-13.00	210.0	H	N/A
2	1327.576	-45.16	-13.00	236.9	H	PASS
3	2214.271	-44.41	-13.00	155.9	H	PASS
4	7156.231	-41.10	-13.00	105.6	H	PASS
5	11151.790	-33.37	-13.00	316.0	H	PASS
6	13600.880	-35.03	-13.00	340.2	H	PASS

2A_12A Mid 20M QPSK PCC RB 1 0 SCC RB 0 H

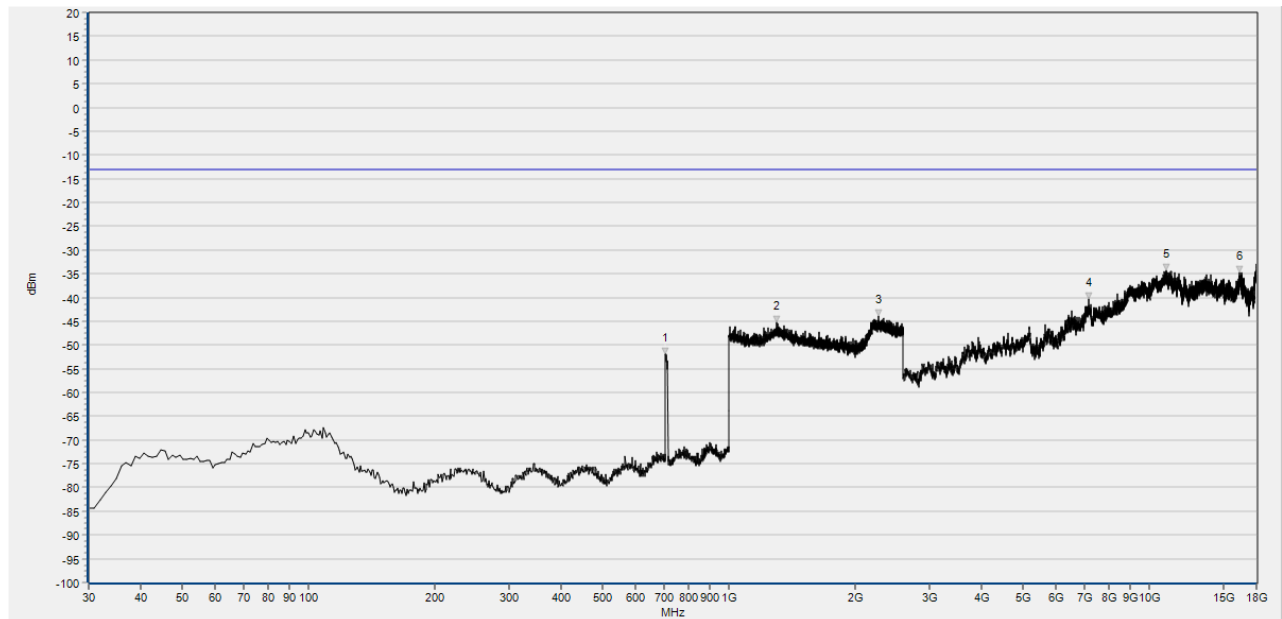
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	706.767	-58.52	-13.00	240.5	V	N/A
2	1356.385	-45.43	-13.00	252.2	V	PASS
3	2268.156	-43.67	-13.00	147.3	V	PASS
4	7174.715	-40.65	-13.00	327.5	V	PASS
5	11059.372	-34.36	-13.00	185.4	V	PASS
6	14854.691	-34.97	-13.00	351.8	V	PASS

2A_12A Mid 20M QPSK PCC RB 1 0 SCC RB 0 V

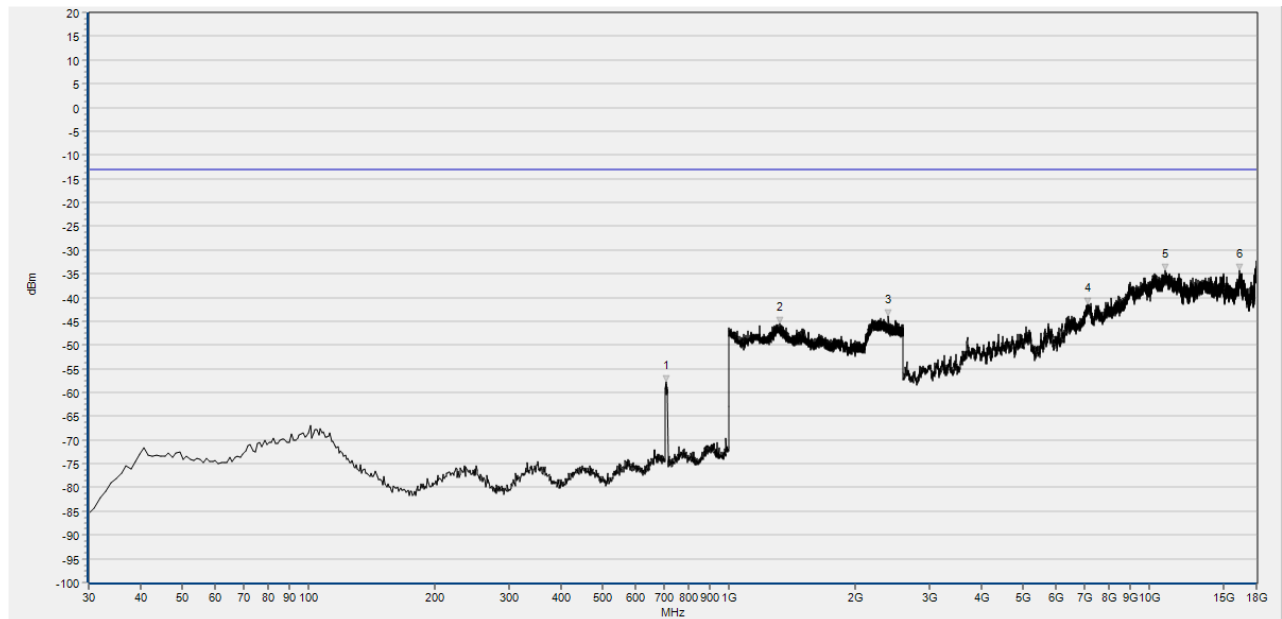
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	706.767	-51.93	-13.00	223.2	H	N/A
2	1297.166	-45.24	-13.00	24.8	H	PASS
3	2266.556	-44.01	-13.00	141.2	H	PASS
4	7190.118	-40.32	-13.00	242.5	H	PASS
5	10982.356	-34.26	-13.00	360.0	H	PASS
6	16370.354	-34.72	-13.00	144.8	H	PASS

2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 H

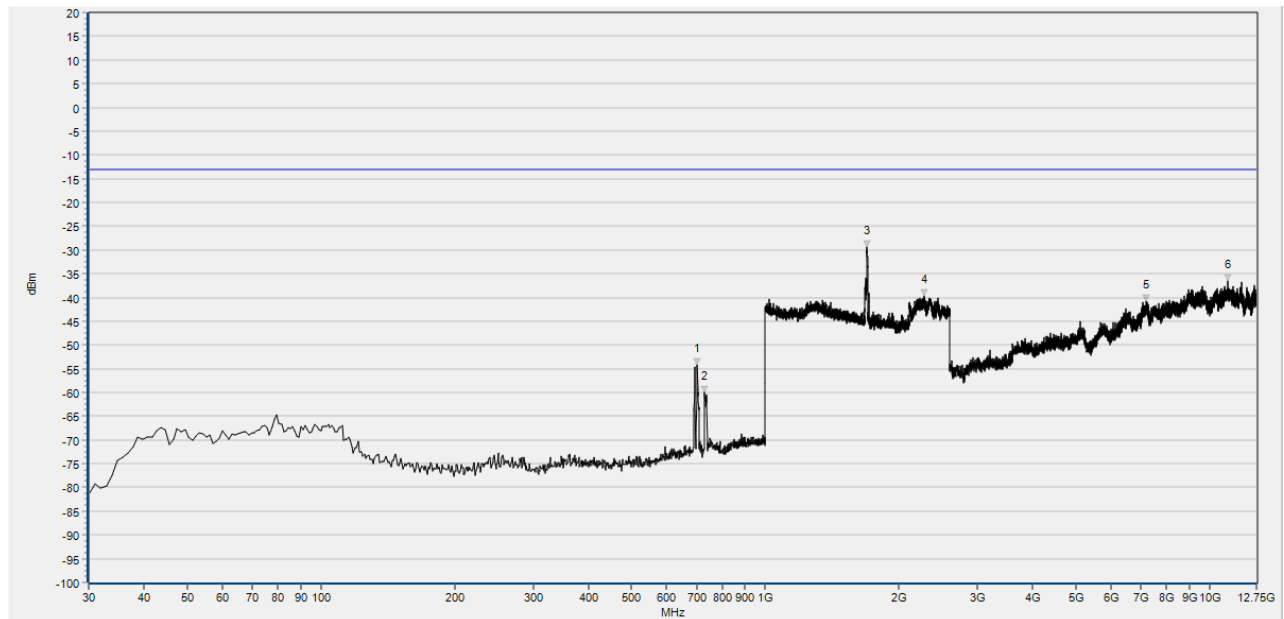
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	707.738	-57.72	-13.00	228.2	V	N/A
2	1325.442	-45.41	-13.00	33.2	V	PASS
3	2399.400	-43.94	-13.00	33.2	V	PASS
4	7140.828	-41.52	-13.00	153.4	V	PASS
5	10917.664	-34.35	-13.00	358.1	V	PASS
6	16385.757	-34.23	-13.00	127.4	V	PASS

2A_12A High 20M QPSK PCC RB 1 0 SCC RB 0 V

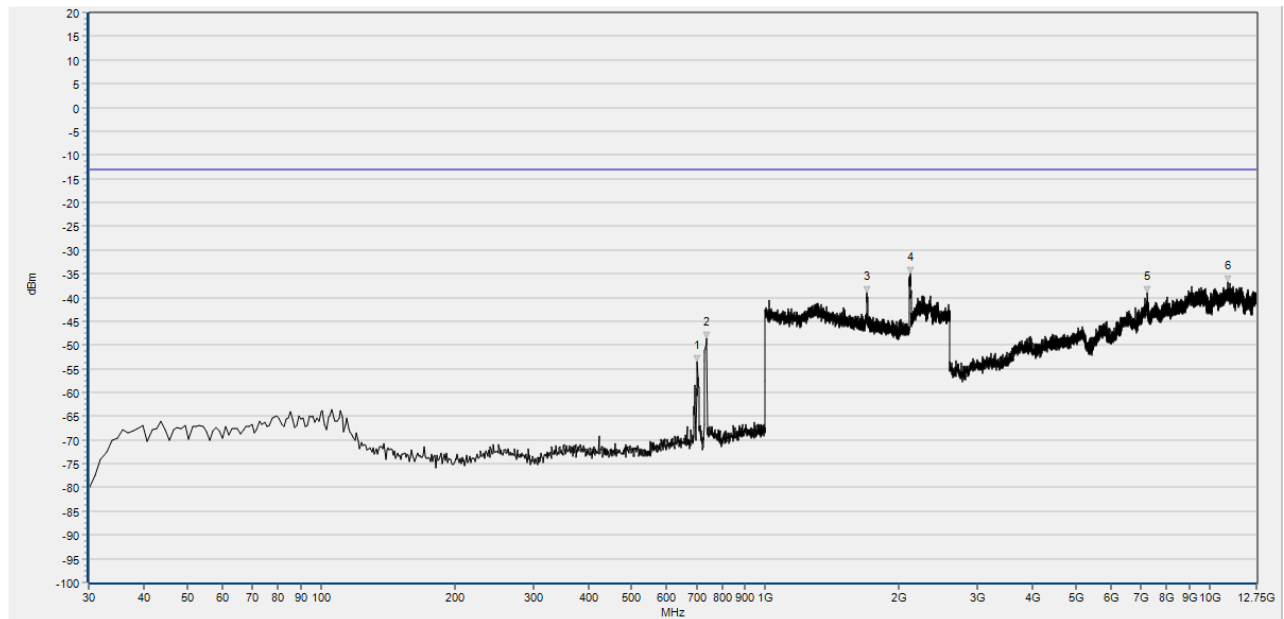
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	702.883	-54.16	-13.00	314.6	H	N/A
2	730.070	-59.97	-13.00	308.3	H	N/A
3	1696.232	-29.40	-13.00	351.2	H	N/A
4	2276.159	-39.72	-13.00	42.7	H	PASS
5	7213.083	-40.72	-13.00	262.9	H	PASS
6	11011.972	-36.54	-13.00	152.9	H	PASS

12A_66A Low 20M QPSK PCC RB 1 0 SCC RB 0 H

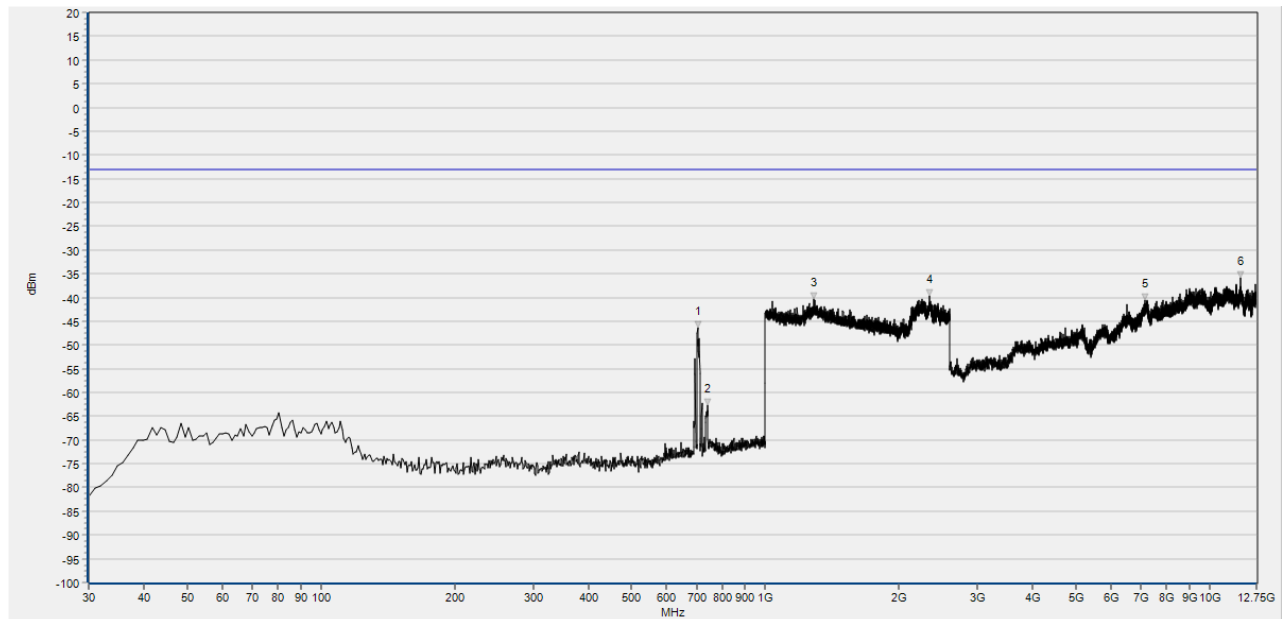
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	702.883	-53.42	-13.00	83.0	V	N/A
2	736.867	-48.60	-13.00	76.7	V	N/A
3	1695.165	-39.01	-13.00	166.9	V	N/A
4	2116.105	-35.07	-13.00	189.6	V	N/A
5	7253.691	-38.94	-13.00	145.6	V	PASS
6	10985.577	-36.74	-13.00	59.7	V	PASS

12A_66A Low 20M QPSK PCC RB 1 0 SCC RB 0 V

Test Graph

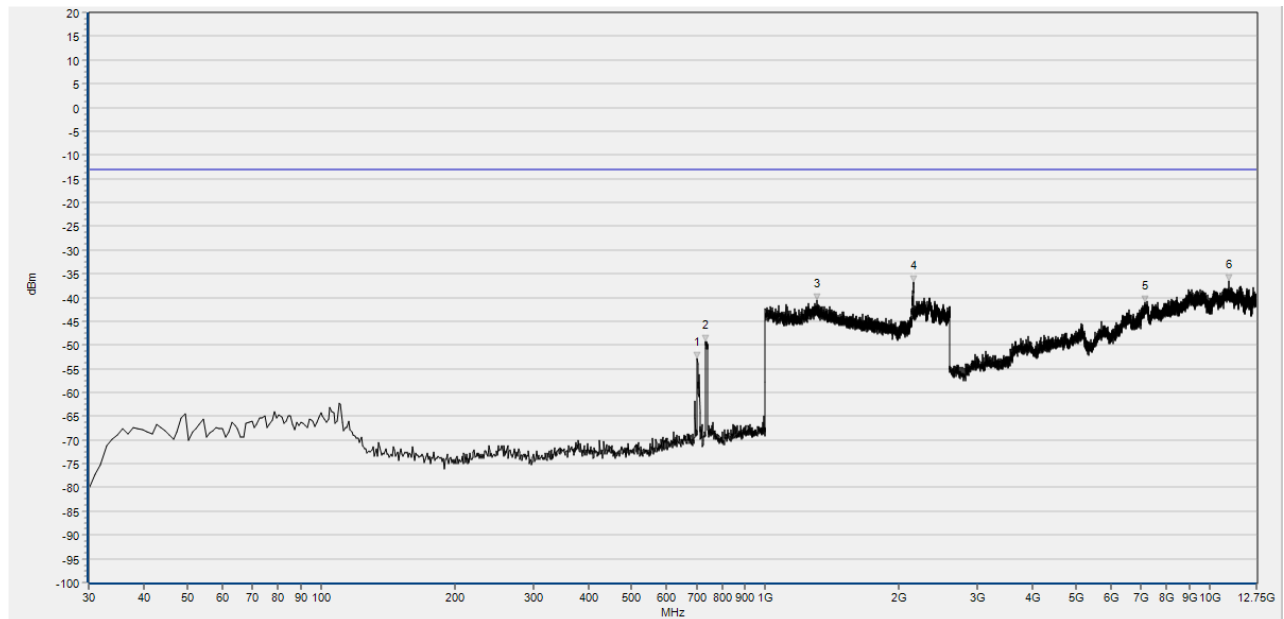


Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	703.854	-46.46	-13.00	61.5	H	N/A
2	741.722	-62.70	-13.00	98.0	H	N/A
3	1284.895	-40.38	-13.00	156.9	H	PASS
4	2338.046	-39.77	-13.00	178.9	H	PASS
5	7170.444	-40.63	-13.00	179.8	H	PASS
6	11763.223	-35.91	-13.00	340.6	H	PASS

12A_66A Mid 20M QPSK PCC RB 1 0 SCC RB 0 H



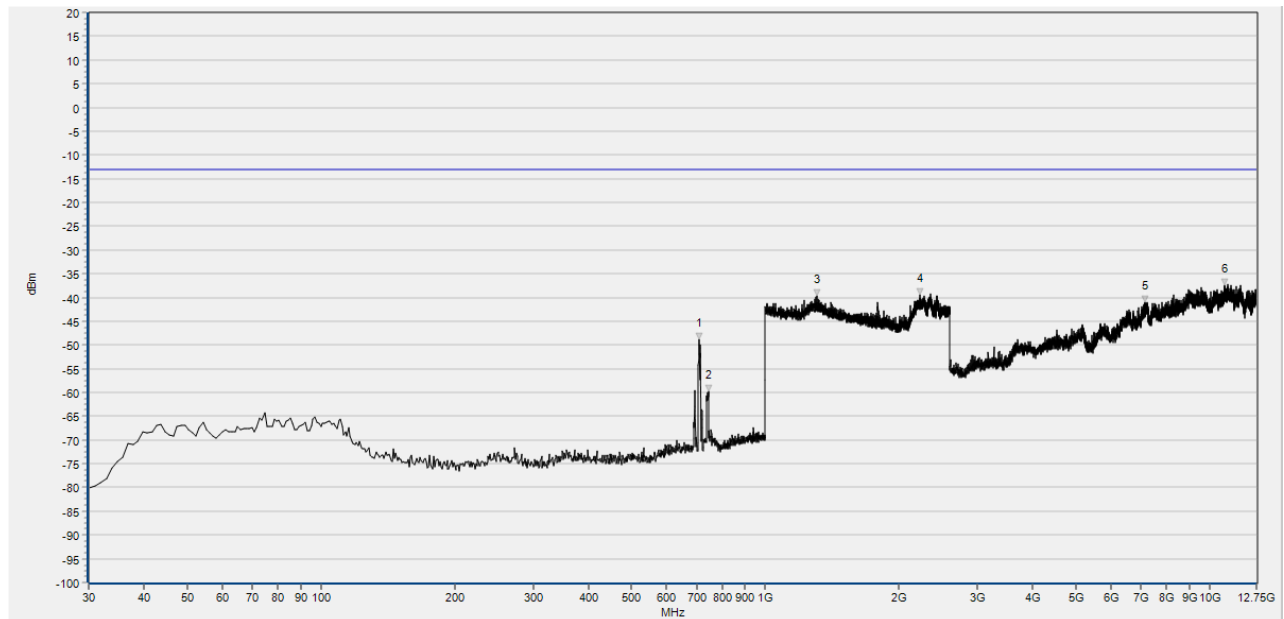
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	702.883	-52.90	-13.00	83.4	V	N/A
2	733.954	-49.18	-13.00	40.2	V	N/A
3	1306.769	-40.61	-13.00	225.8	V	PASS
4	2152.384	-36.70	-13.00	241.0	V	N/A
5	7170.444	-40.91	-13.00	35.5	V	PASS
6	11058.672	-36.43	-13.00	194.8	V	PASS

12A_66A Mid 20M QPSK PCC RB 1 0 SCC RB 0 V

Test Graph

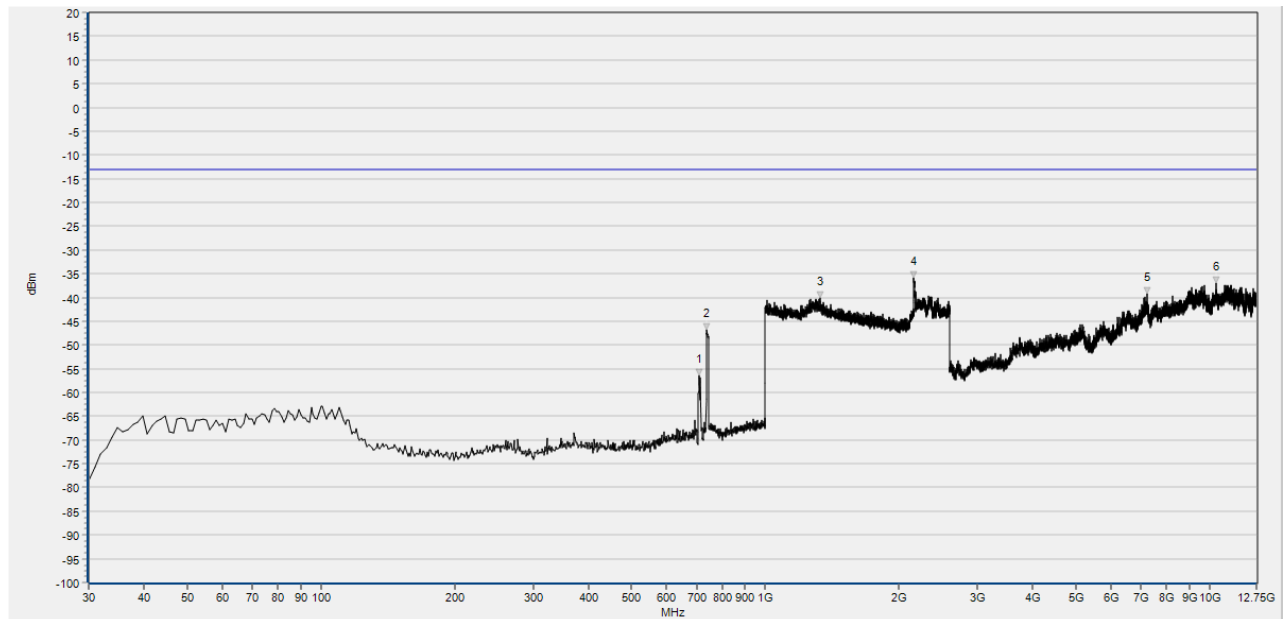


Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	708.709	-48.79	-13.00	64.1	H	N/A
2	745.606	-59.70	-13.00	113.2	H	N/A
3	1306.769	-39.62	-13.00	288.9	H	PASS
4	2224.408	-39.45	-13.00	187.4	H	PASS
5	7160.292	-41.10	-13.00	177.1	H	PASS
6	10806.901	-37.41	-13.00	250.7	H	PASS

12A_66A High 20M QPSK PCC RB 1 0 SCC RB 0 H



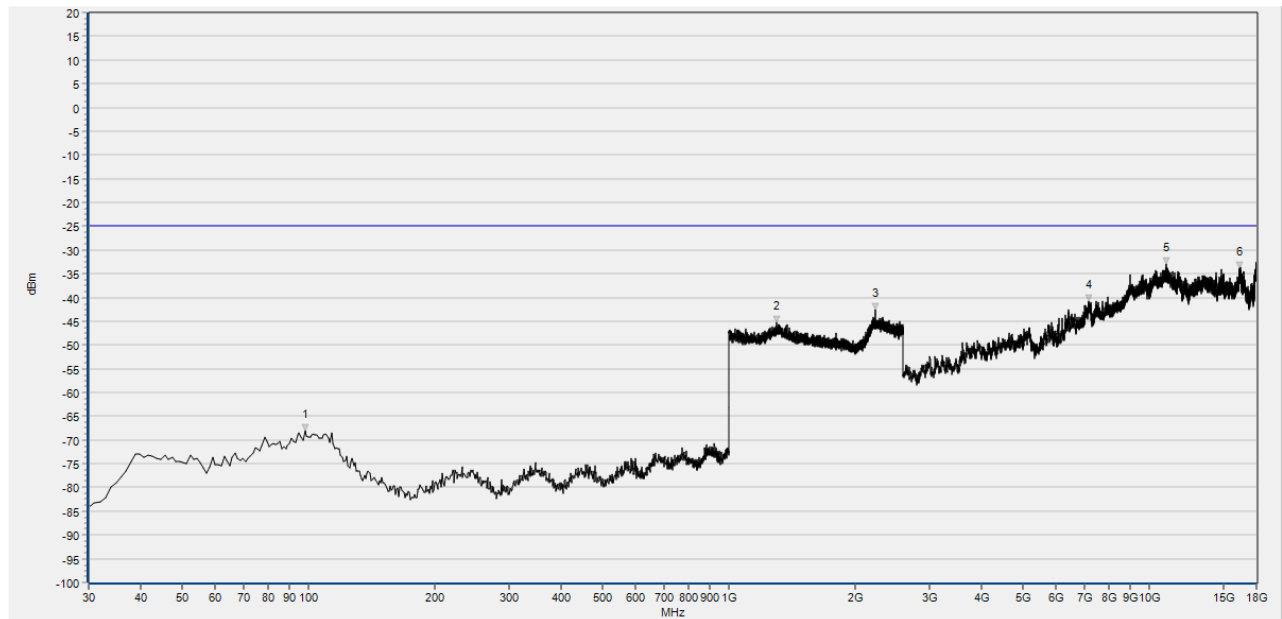
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	709.680	-56.40	-13.00	69.8	V	N/A
2	738.809	-46.86	-13.00	259.5	V	N/A
3	1328.109	-40.21	-13.00	177.5	V	PASS
4	2161.454	-35.80	-13.00	234.7	V	N/A
5	7245.569	-39.22	-13.00	181.4	V	PASS
6	10345.999	-36.93	-13.00	84.6	V	PASS

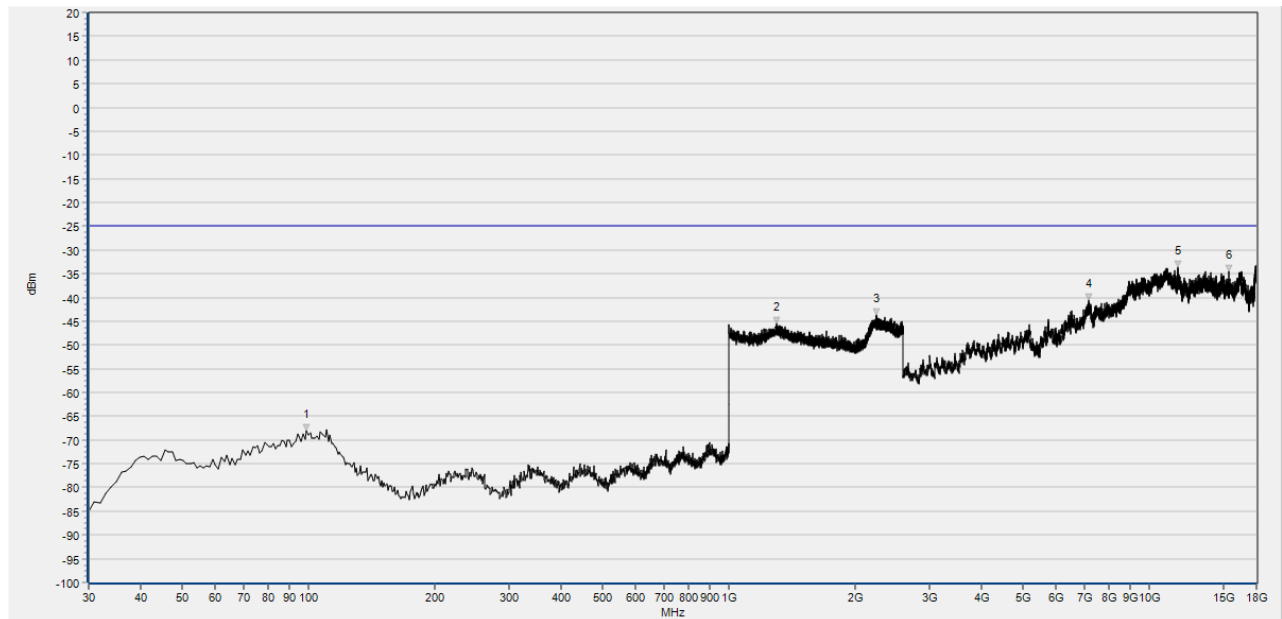
12A_66A High 20M QPSK PCC RB 1 0 SCC RB 0 V

Test Graph



CA_41C Low 20M QPSK PCC RB 1 0 SCC RB 0 H

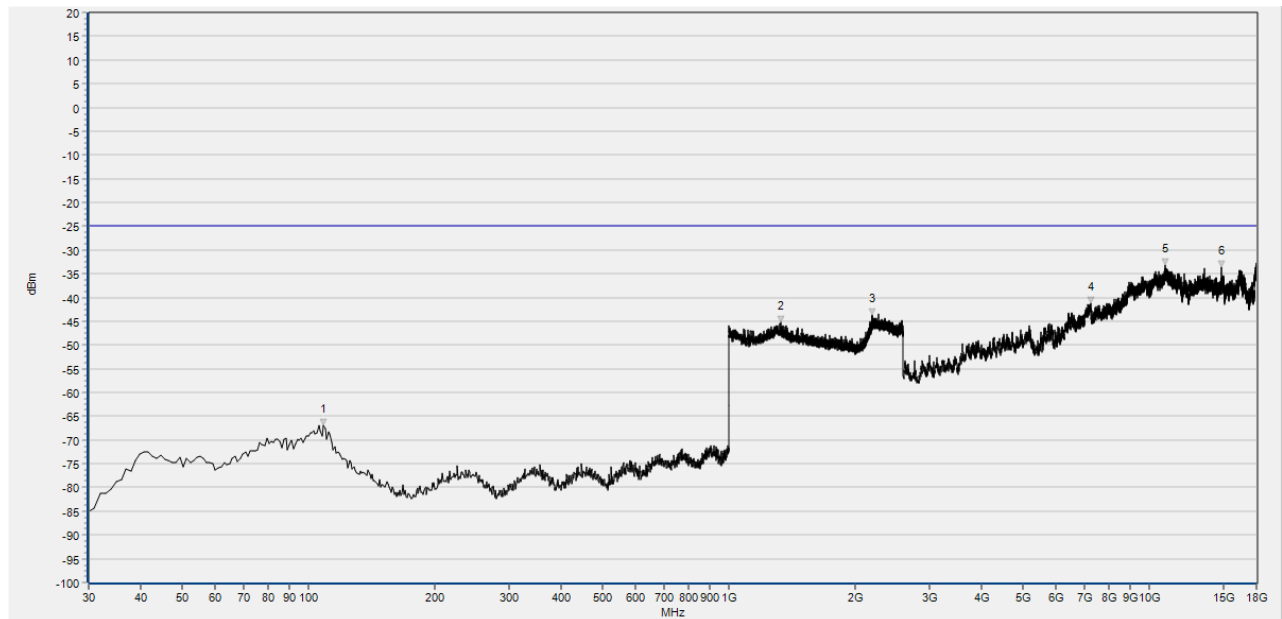
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	98.939	-67.98	-25.00	360.0	V	PASS
2	1301.434	-45.52	-25.00	245.0	V	PASS
3	2244.682	-43.76	-25.00	358.4	V	PASS
4	7196.279	-40.66	-25.00	83.3	V	PASS
5	11730.946	-33.73	-25.00	344.1	V	PASS
6	15443.089	-34.52	-25.00	319.2	V	PASS

CA_41C Low 20M QPSK PCC RB 1 0 SCC RB 0 V

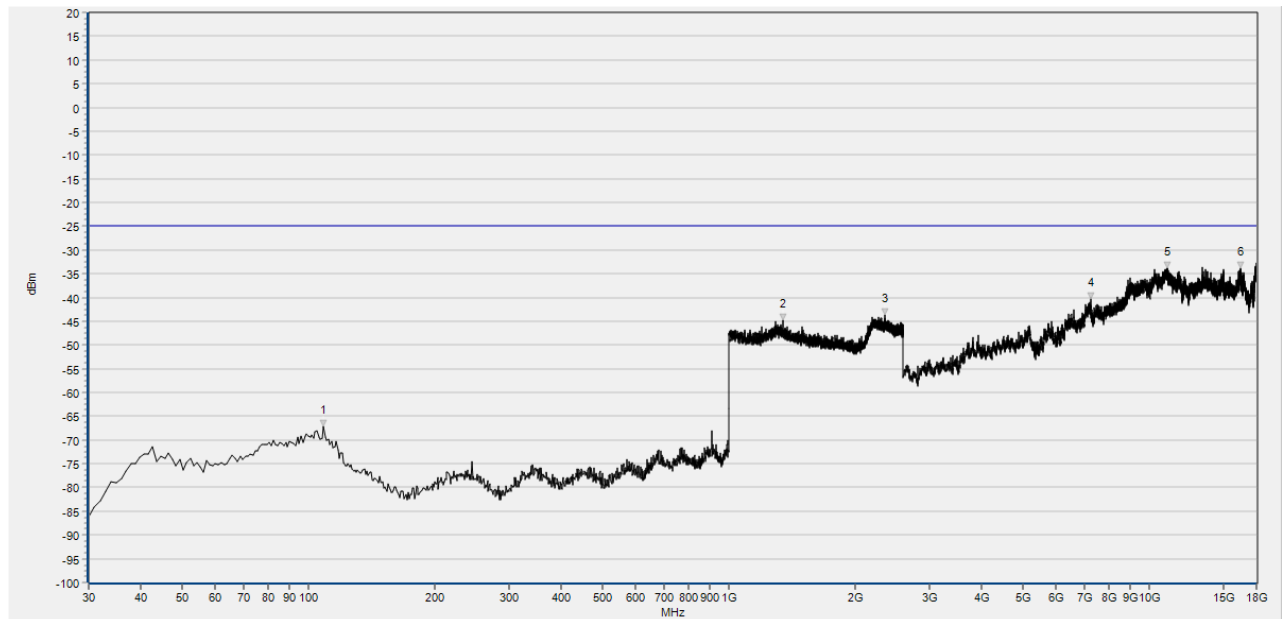
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	108.649	-66.98	-25.00	360.0	H	PASS
2	1331.844	-45.32	-25.00	36.0	H	PASS
3	2188.663	-43.64	-25.00	196.7	H	PASS
4	7251.730	-41.26	-25.00	171.2	H	PASS
5	10933.067	-33.07	-25.00	71.5	H	PASS
6	14867.013	-33.52	-25.00	196.5	H	PASS

CA_41C Mid 20M QPSK PCC RB 1 0 SCC RB 0 H

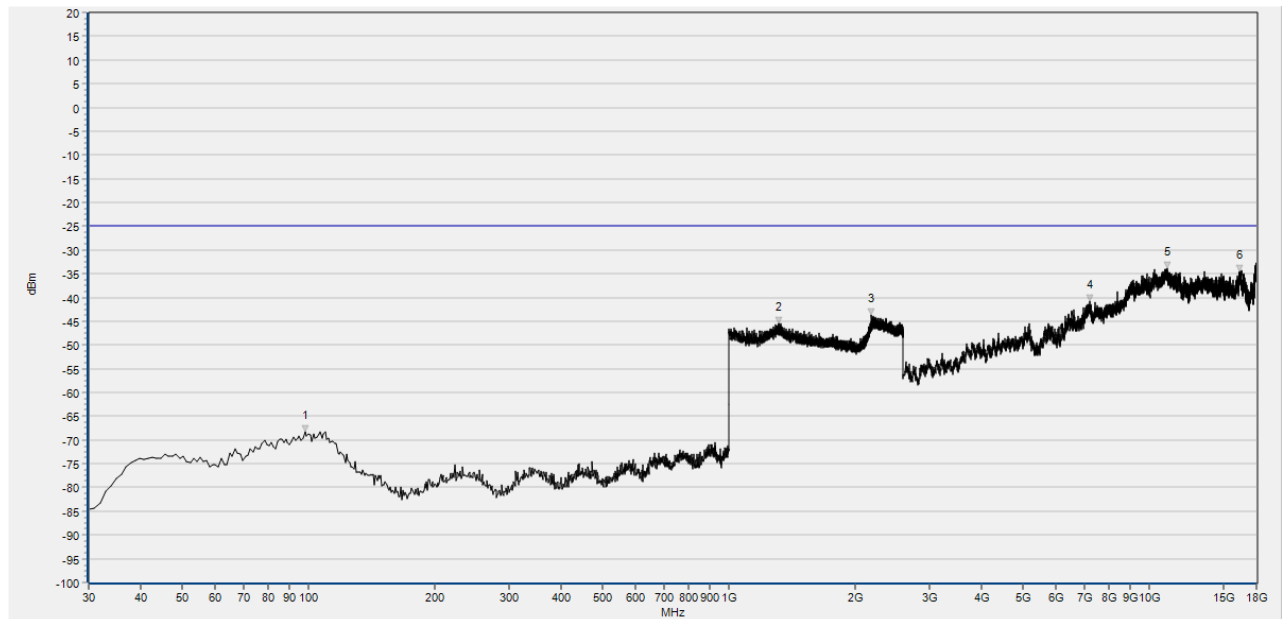
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	108.649	-67.23	-25.00	360.0	V	PASS
2	1347.316	-44.90	-25.00	251.7	V	PASS
3	2349.250	-43.70	-25.00	235.7	V	PASS
4	7264.053	-40.42	-25.00	310.3	V	PASS
5	11050.130	-33.79	-25.00	360.0	V	PASS
6	16530.546	-33.76	-25.00	357.0	V	PASS

CA_41C Mid 20M QPSK PCC RB 1 0 SCC RB 0 V

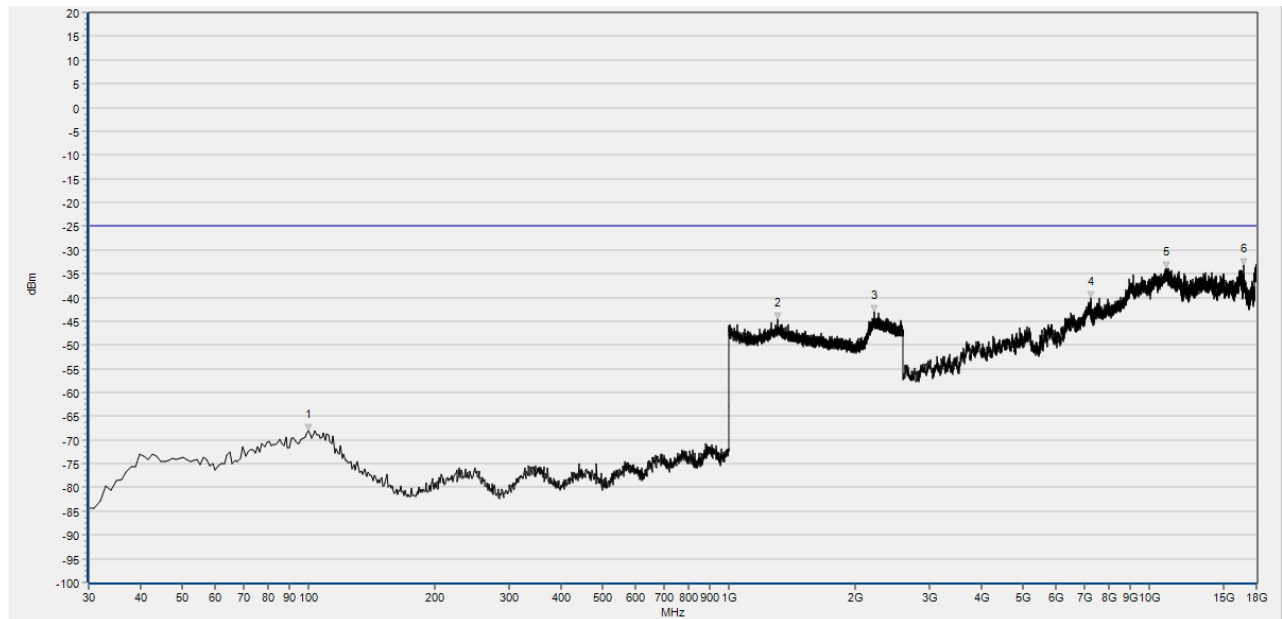
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	97.968	-68.34	-25.00	360.0	H	PASS
2	1314.772	-45.45	-25.00	274.0	H	PASS
3	2185.995	-43.64	-25.00	40.0	H	PASS
4	7239.408	-40.84	-25.00	210.2	H	PASS
5	11019.324	-33.83	-25.00	222.1	H	PASS
6	16385.757	-34.56	-25.00	308.4	H	PASS

CA_41C High 20M QPSK PCC RB 1 0 SCC RB 0 H

Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	99.910	-68.07	-25.00	360.0	V	PASS
2	1305.168	-44.57	-25.00	184.4	V	PASS
3	2214.271	-42.95	-25.00	184.4	V	PASS
4	7257.892	-40.19	-25.00	169.7	V	PASS
5	11010.082	-33.87	-25.00	356.8	V	PASS
6	16801.640	-33.25	-25.00	322.5	V	PASS

CA_41C High 20M QPSK PCC RB 1 0 SCC RB 0 V

ANT 3:

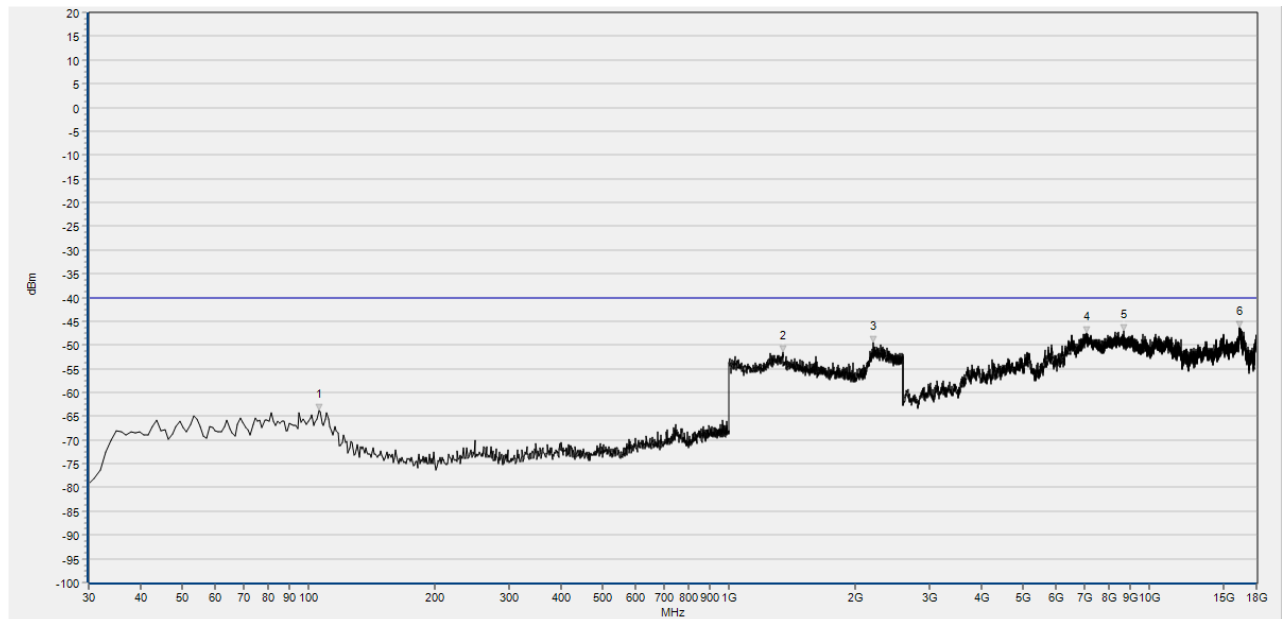
Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	105.736	-64.30	-40.00	303.8	H	PASS
2	1299.499	-51.09	-40.00	124.8	H	PASS
3	2298.899	-50.04	-40.00	121.1	H	PASS
4	5856.211	-49.72	-40.00	317.2	H	PASS
5	8410.042	-46.58	-40.00	159.5	H	PASS
6	14863.933	-46.83	-40.00	240.1	H	PASS

CA_48C Low 20M QPSK PCC RB 1 0 SCC RB 0 H

Test Graph



Num	Freq(MHz)	PK	limit PK	Degree	Antenna	Verdict
1	105.736	-63.76	-40.00	308.8	V	PASS
2	1342.743	-51.55	-40.00	140.6	V	PASS
3	2206.006	-49.39	-40.00	158.6	V	PASS
4	7094.619	-47.53	-40.00	198.9	V	PASS
5	8705.781	-47.15	-40.00	285.5	V	PASS
6	16404.241	-46.47	-40.00	270.8	V	PASS

CA_48C Low 20M QPSK PCC RB 1 0 SCC RB 0 V