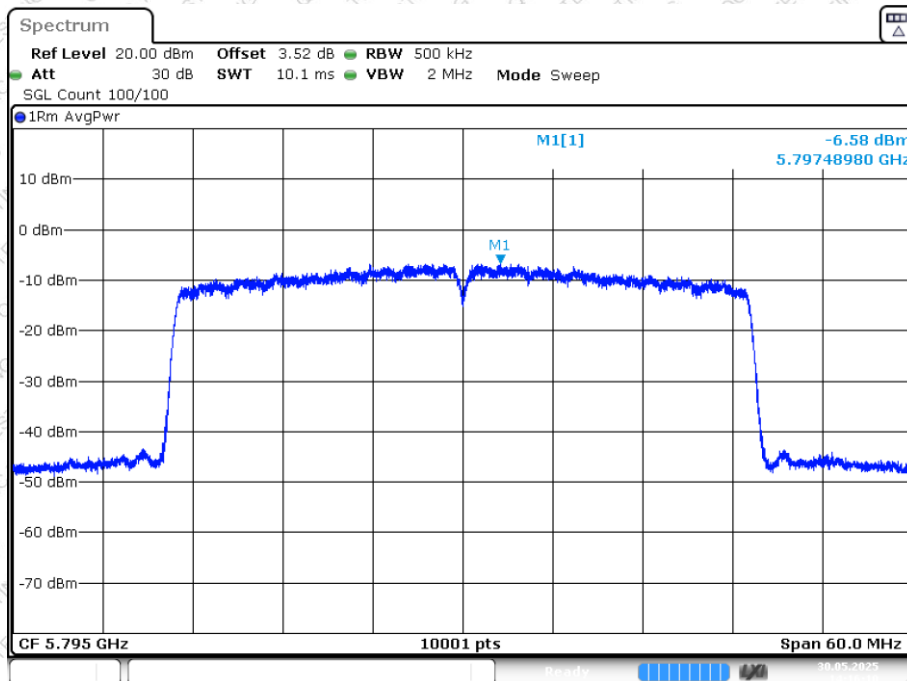
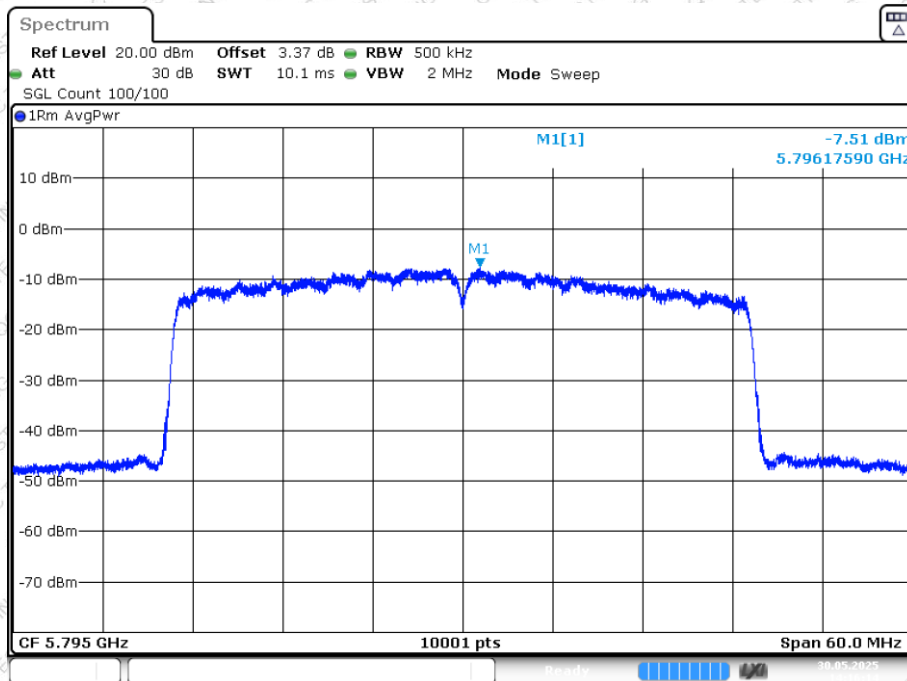




PSD NVNT ax40 5795MHz Ant1

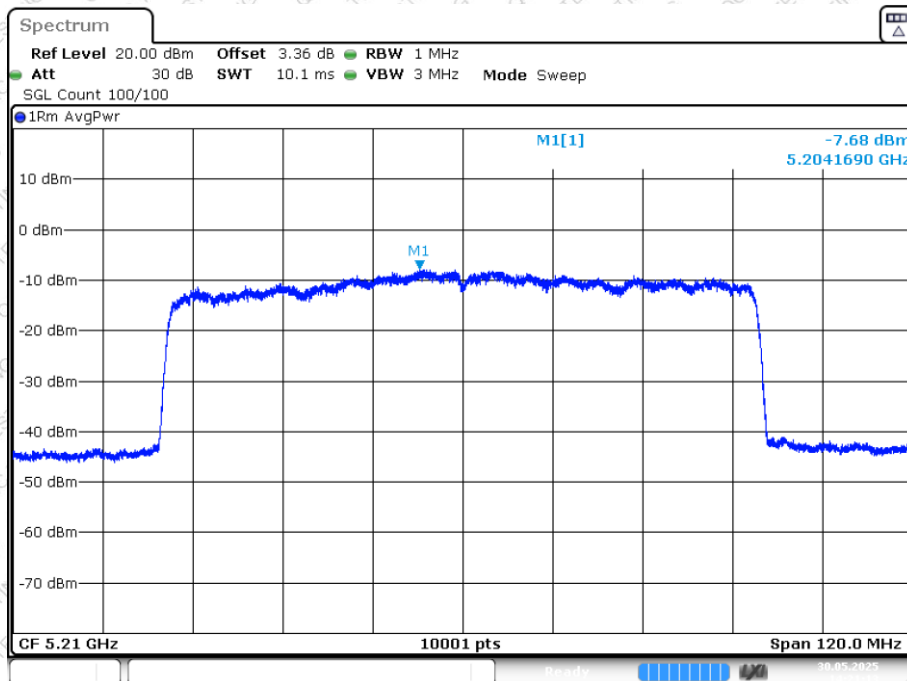


PSD NVNT ax40 5795MHz Ant2

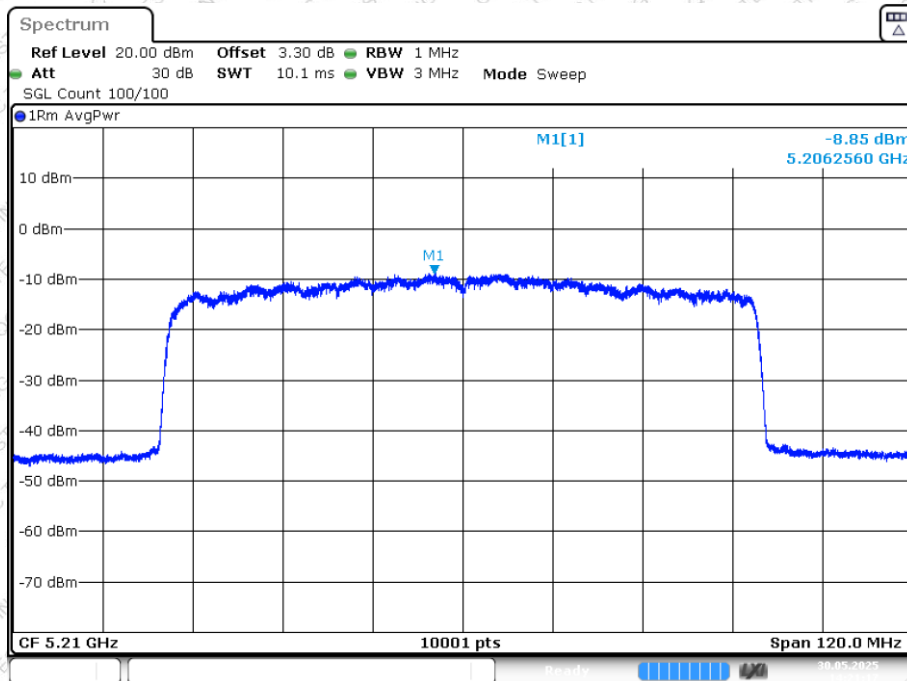




PSD NVNT ax80 5210MHz Ant1

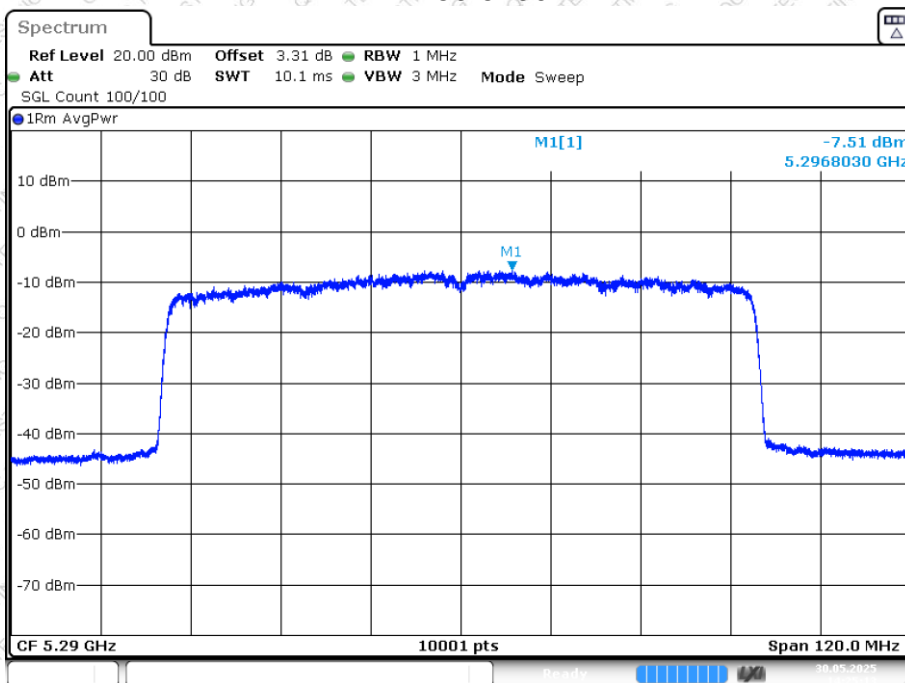


PSD NVNT ax80 5210MHz Ant2



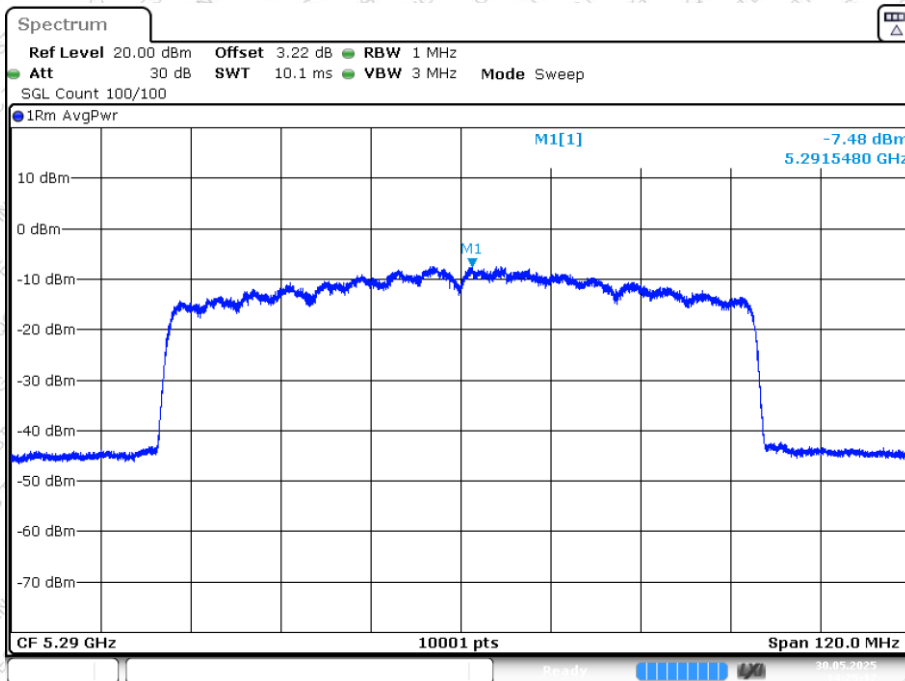


PSD NVNT ax80 5290MHz Ant1



Date: 30. MAY 2025 14:25:13

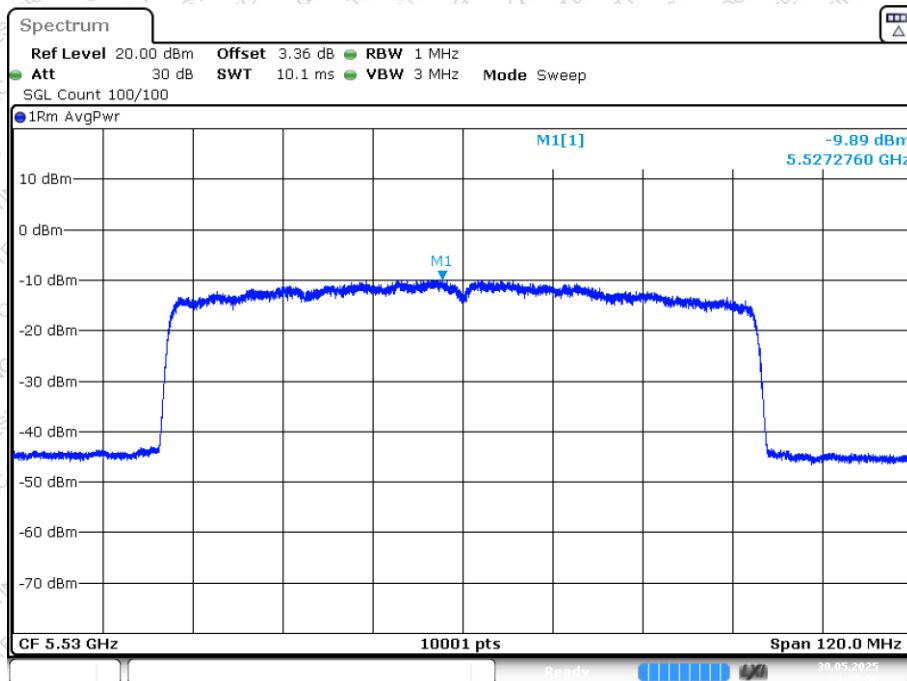
PSD NVNT ax80 5290MHz Ant2



Date: 30. MAY 2025 14:25:17

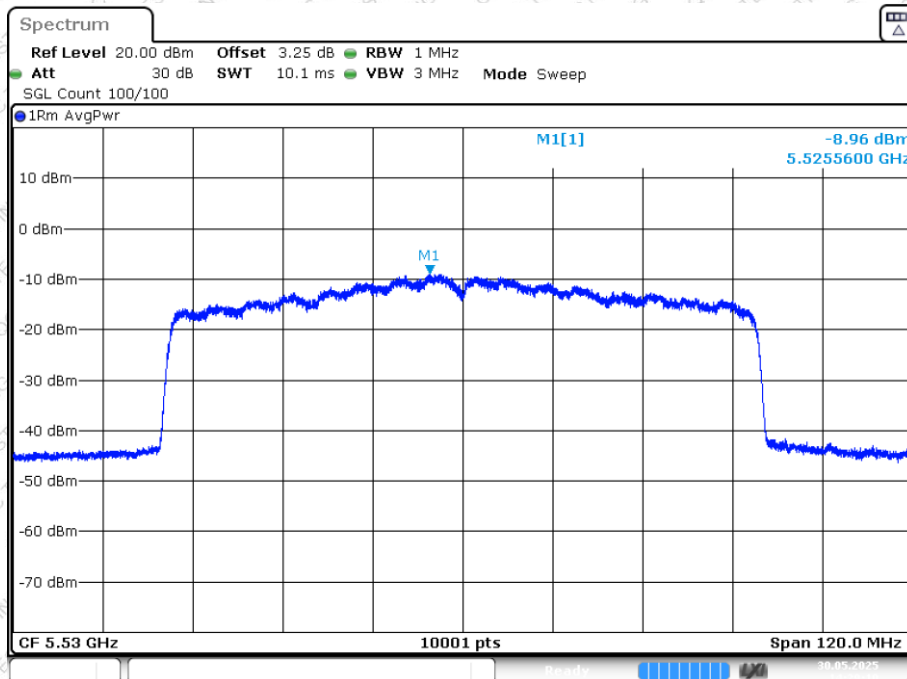


PSD NVNT ax80 5530MHz Ant1



Date: 30. MAY 2025 14:29:07

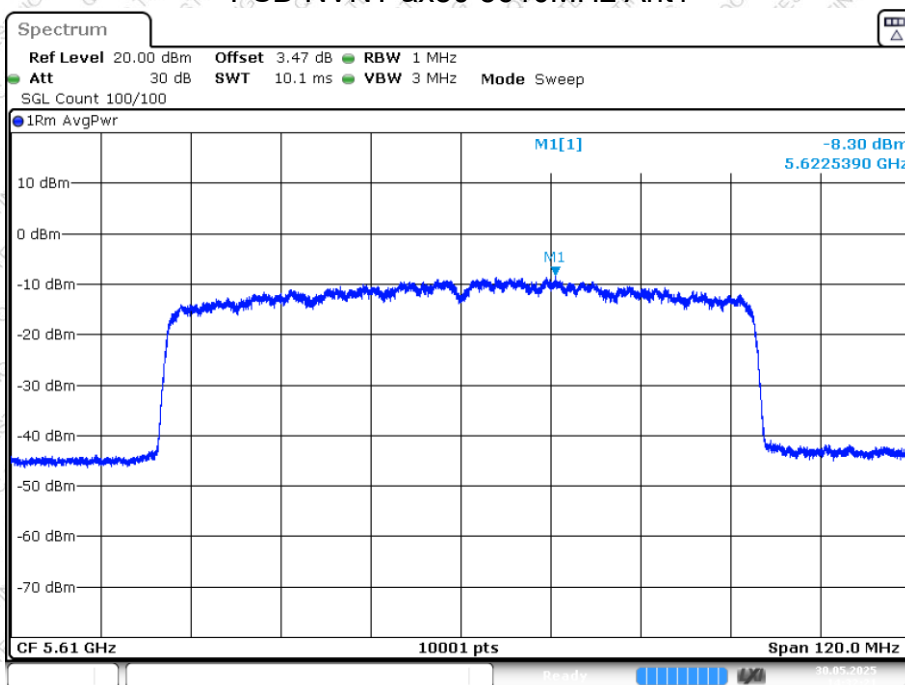
PSD NVNT ax80 5530MHz Ant2



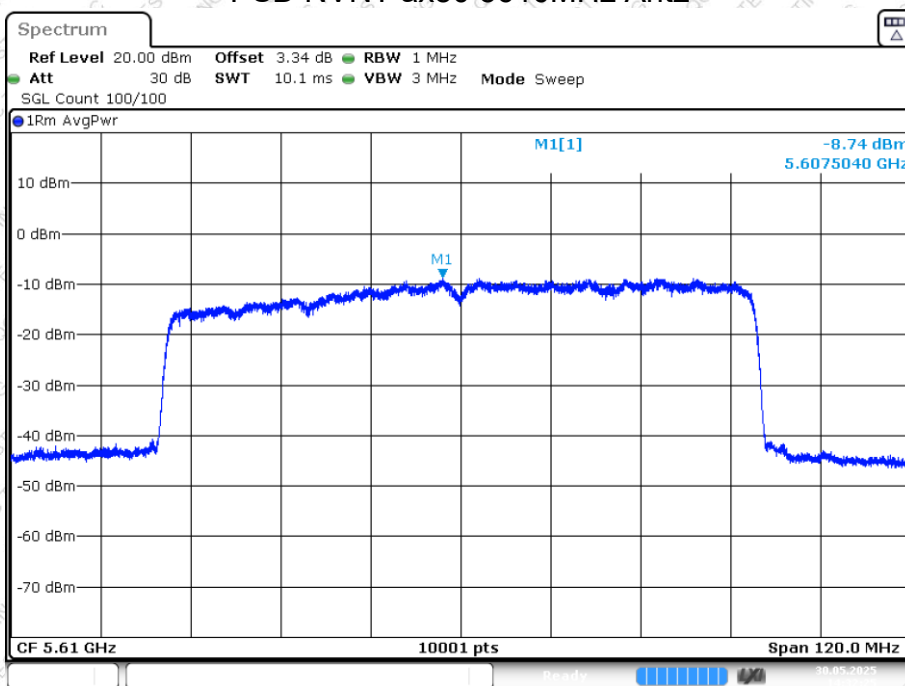
Date: 30. MAY 2025 14:29:11



PSD NVNT ax80 5610MHz Ant1

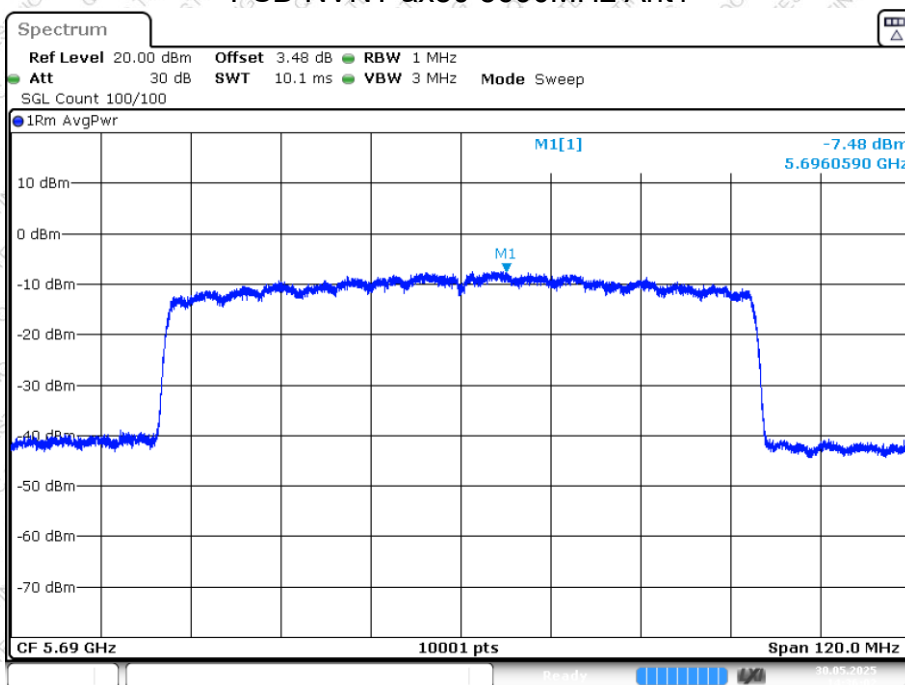


PSD NVNT ax80 5610MHz Ant2

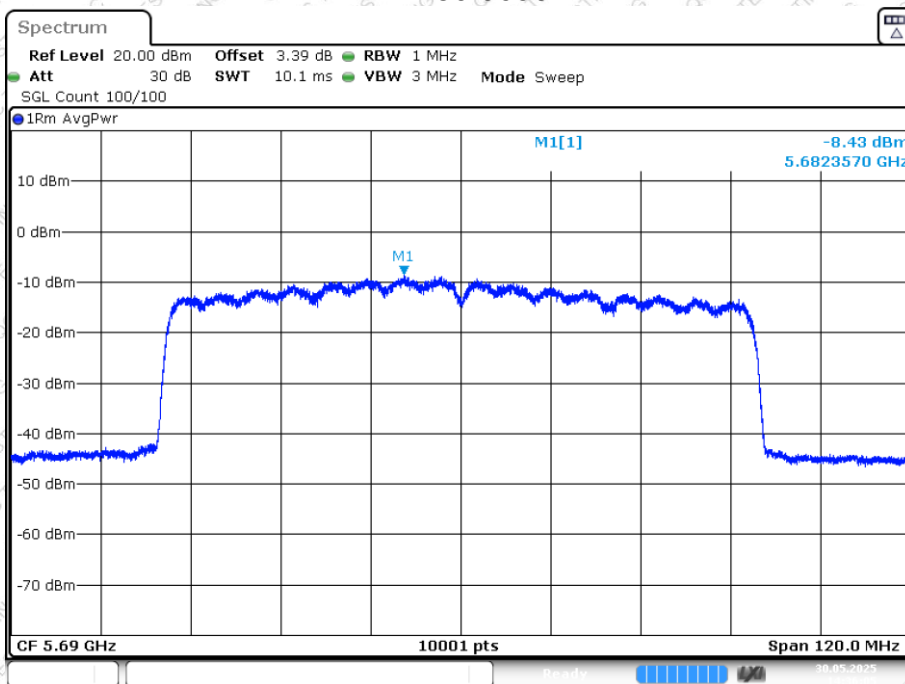




PSD NVNT ax80 5690MHz Ant1

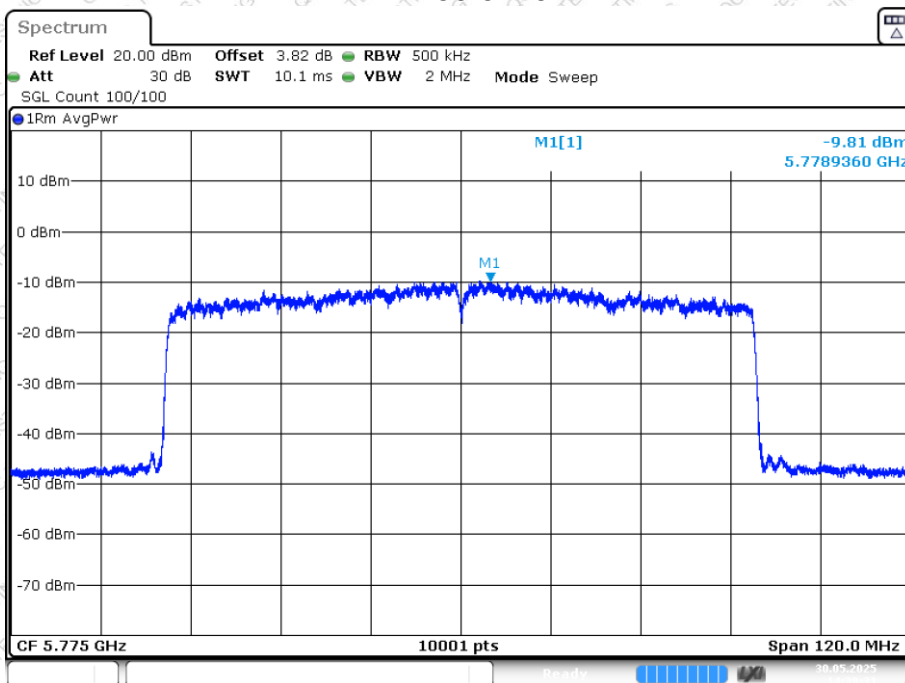


PSD NVNT ax80 5690MHz Ant2



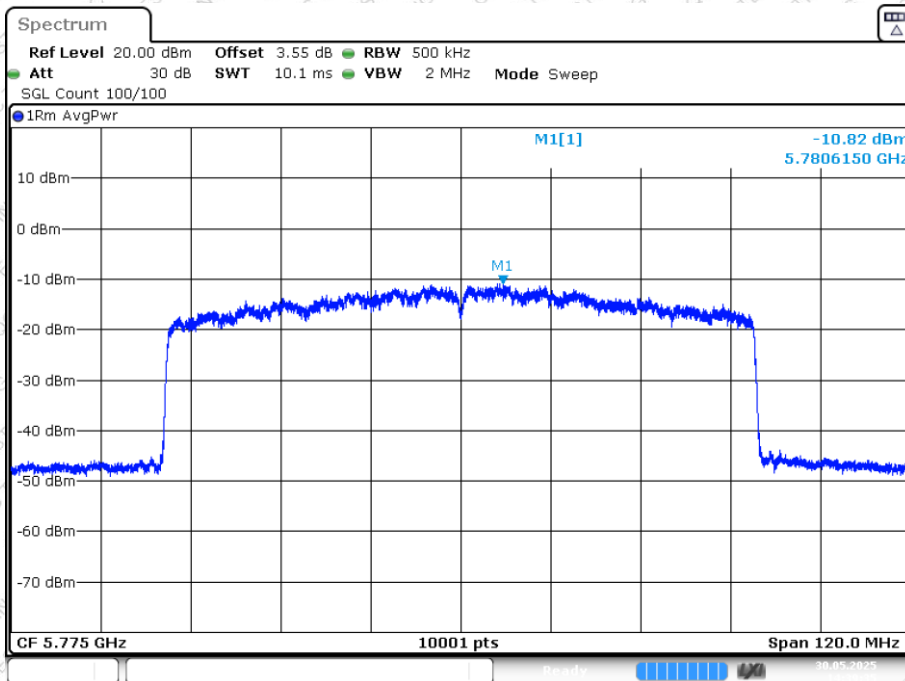


PSD NVNT ax80 5775MHz Ant1



Date: 30.MAY.2025 14:39:32

PSD NVNT ax80 5775MHz Ant2



Date: 30.MAY.2025 14:39:35

9. Band Edge

9.1 Applicable Standard

FCC Part15 C Section 15.205/ 15.407(b)

9.2 Limit

According to part 15.407b (1) (2) (3) (4)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of-27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of-27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of-27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of-27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

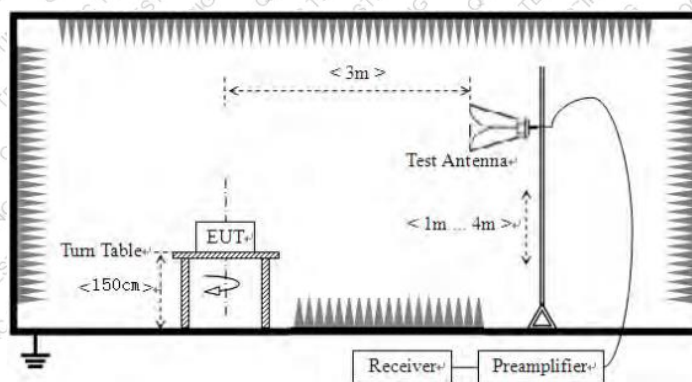
9.3 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	/	QP
150KHz-30MHz	9KHz	30KHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz Note 1	/	Average
1MHz	1MHz	> 1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

9.4 Test setup



9.5 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

9.6 Test Data

Temperature	26 °C	Humidity	54%
ATM Pressure	101.1kPa	Antenna Gain	see page 5
Test by	LBi Li	Test result	PASS

Remarks:

1. According to KDB 789033 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m.}$$

$$E[\text{dBuV/m}] = 10 + 95.2 = 105.2\text{dBuV/m.}$$

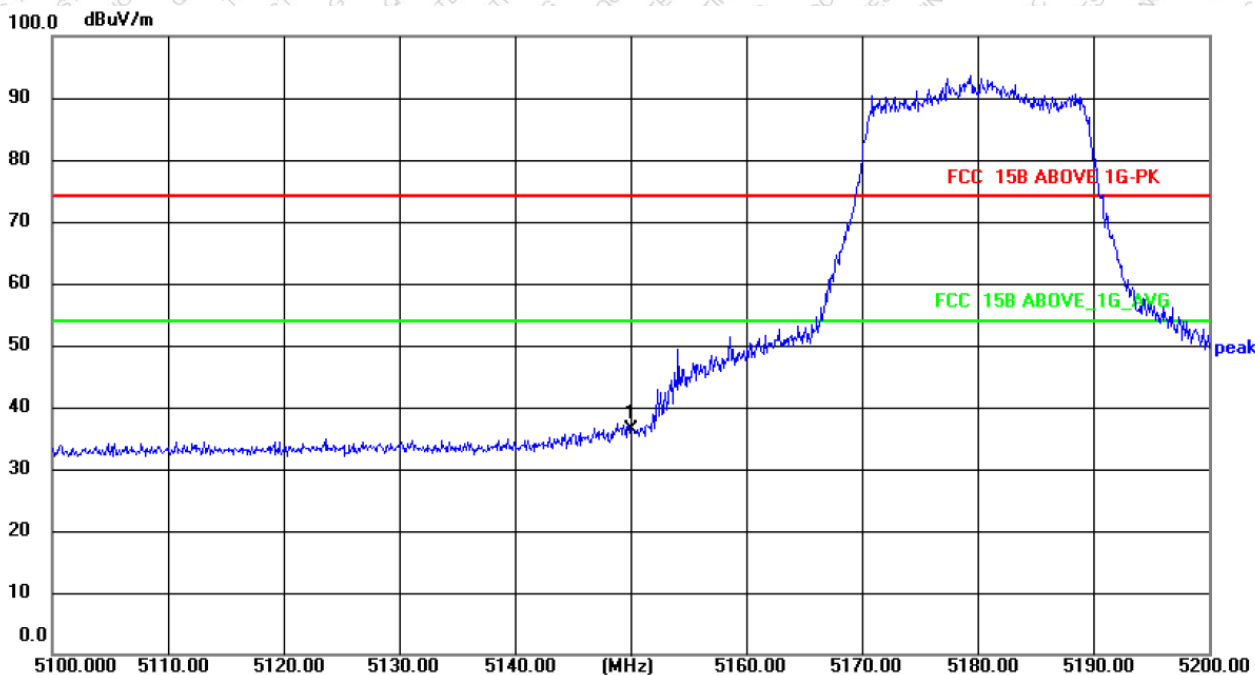
$$E[\text{dBuV/m}] = 15.6 + 95.2 = 110.8\text{dBuV/m.}$$

$$E[\text{dBuV/m}] = 27 + 95.2 = 122.2\text{dBuV/m}$$



Pre-scan all test modes, found worst case at 802.11ax mode (MIMO), and so only show the test result of 802.11ax mode(MIMO).

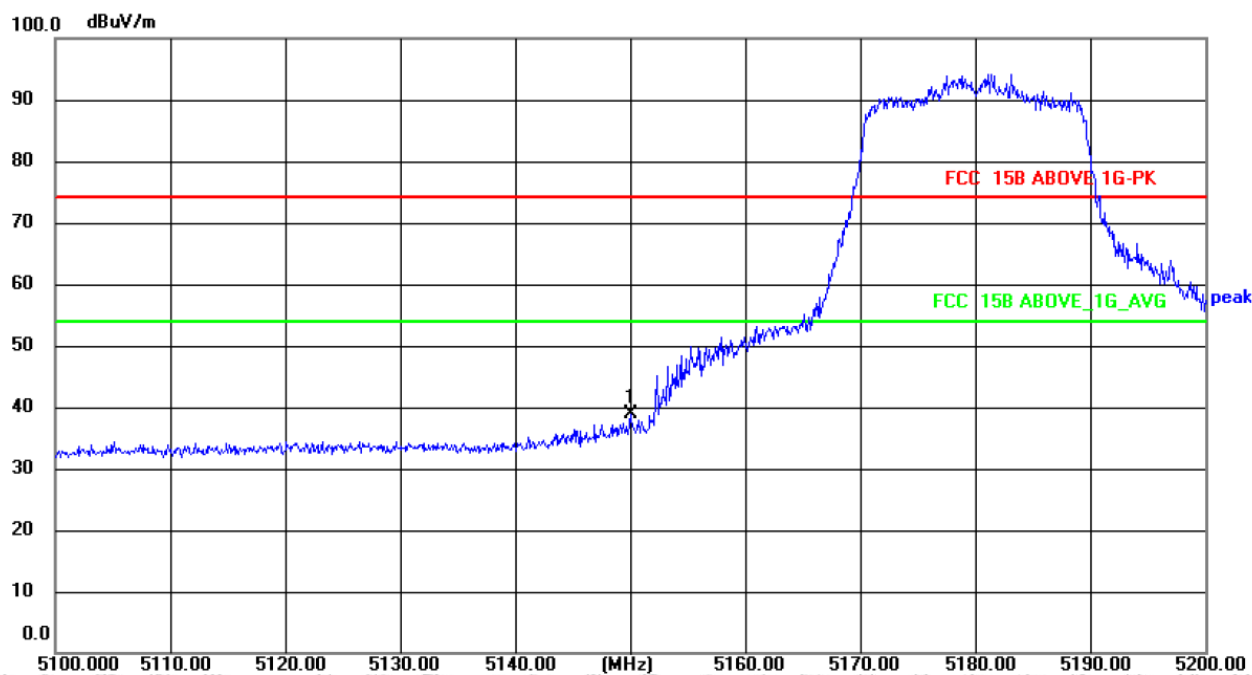
802.11ax20 5180MHz
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	54.25	-17.94	36.31	74.00	37.69	peak



Vertical:



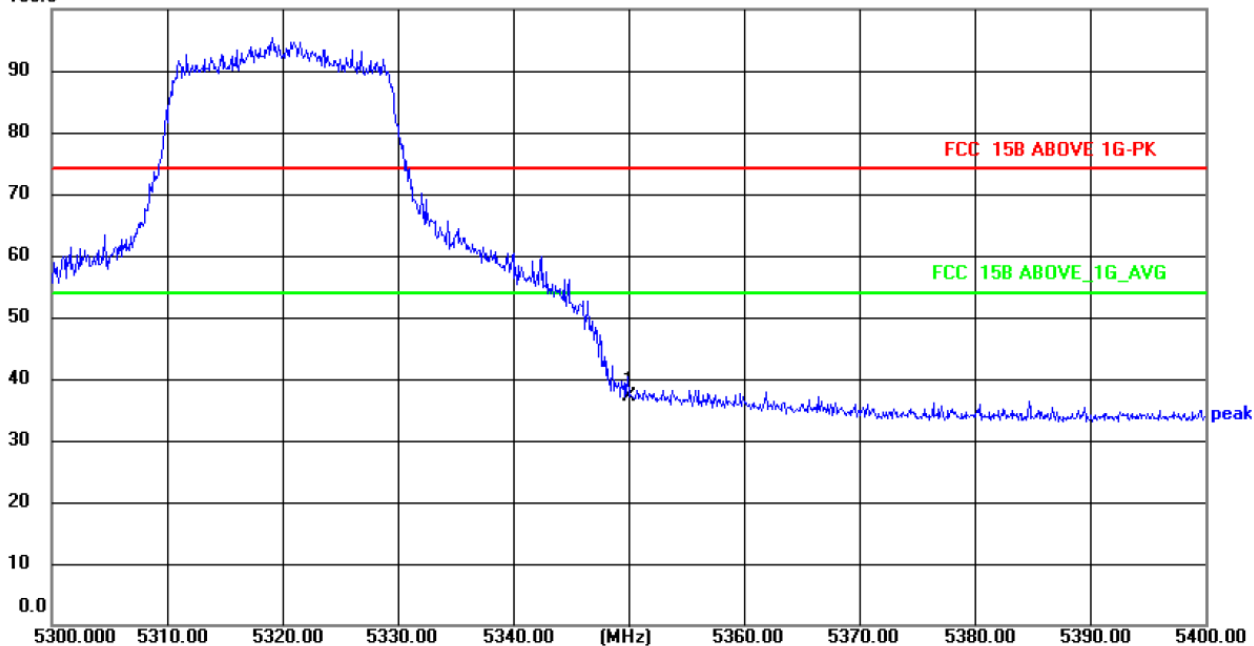
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	56.80	-17.94	38.86	74.00	35.14	peak



802.11ax20 5320MHz

Horizontal:

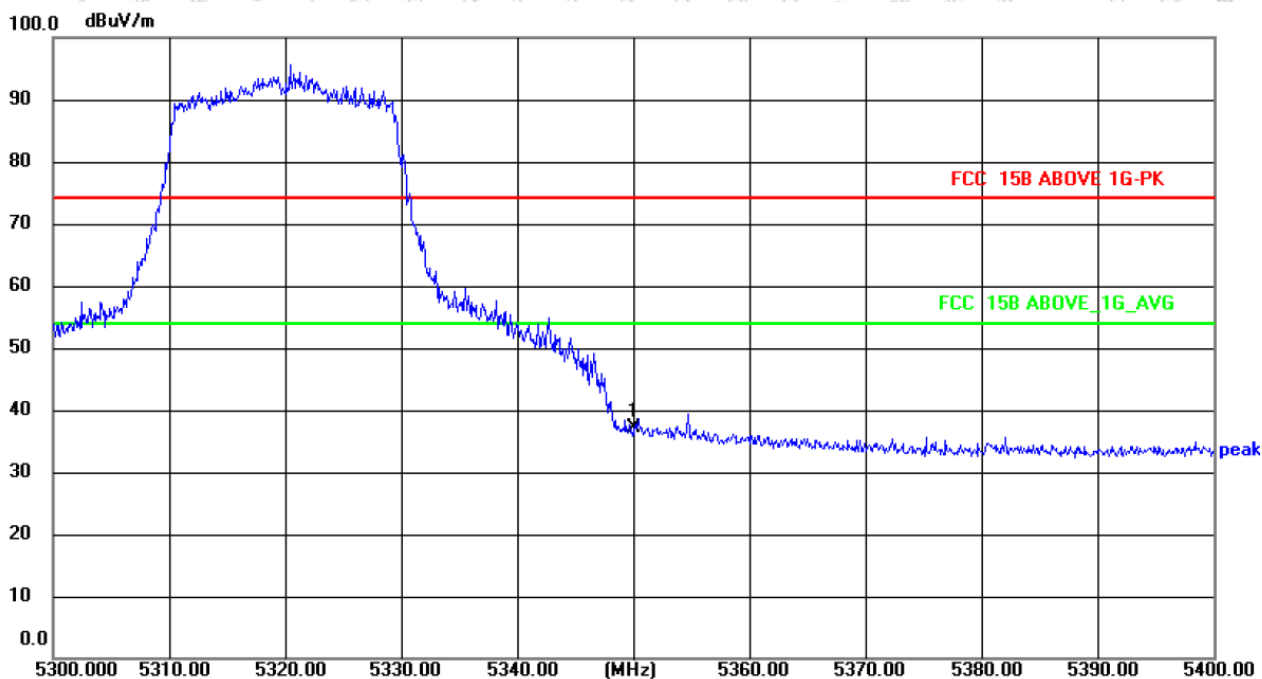
100.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5350.000	54.59	-17.51	37.08	74.00	36.92	peak



Vertical:



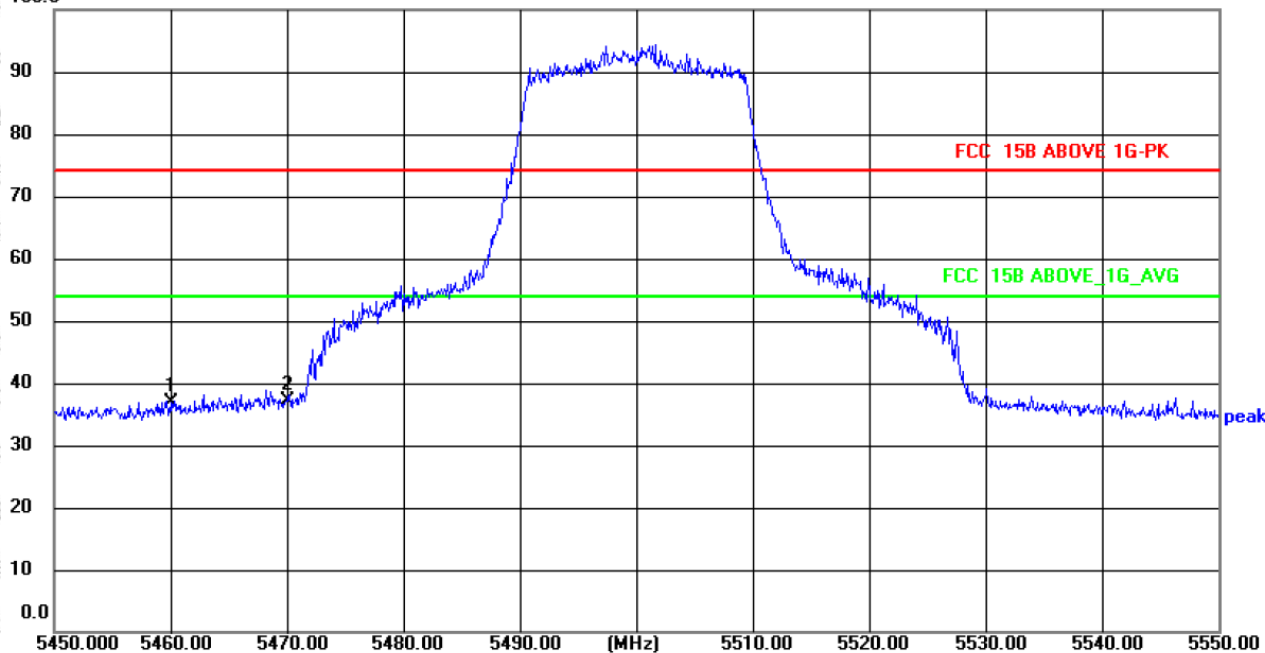
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5350.000	54.66	-17.51	37.15	74.00	36.85	peak



802.11ax20 5500MHz

Horizontal:

100.0 dBuV/m

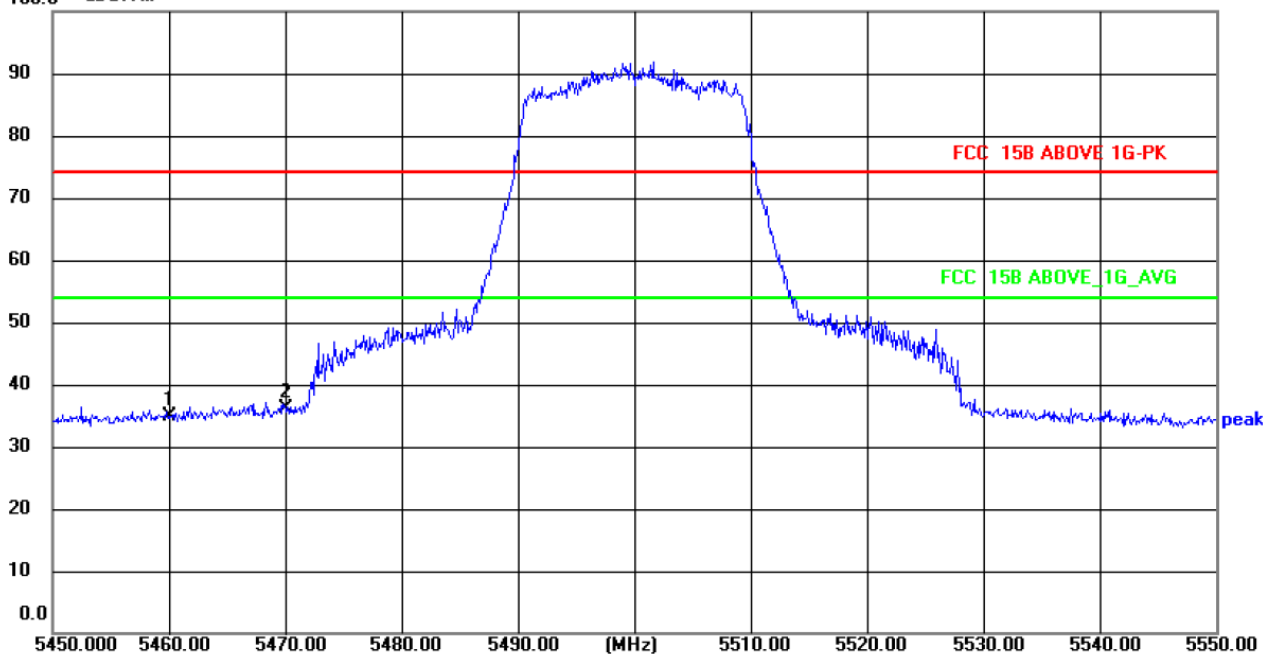


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5460.000	54.15	-17.28	36.87	74.00	37.13	peak
2 *	5470.000	54.51	-17.26	37.25	74.00	36.75	peak



Vertical:

100.0 dBuV/m



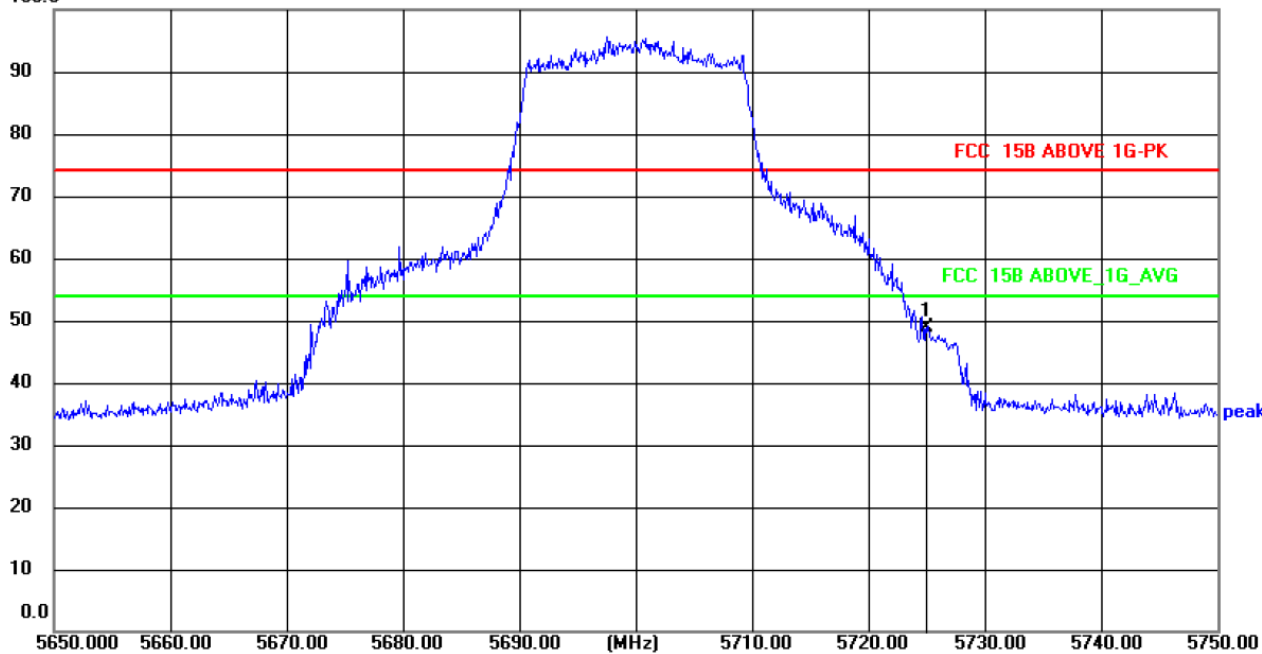
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5460.000	52.11	-17.28	34.83	74.00	39.17	peak
2 *	5470.000	53.39	-17.26	36.13	74.00	37.87	peak



802.11ax20 5700MHz

Horizontal:

100.0 dBuV/m

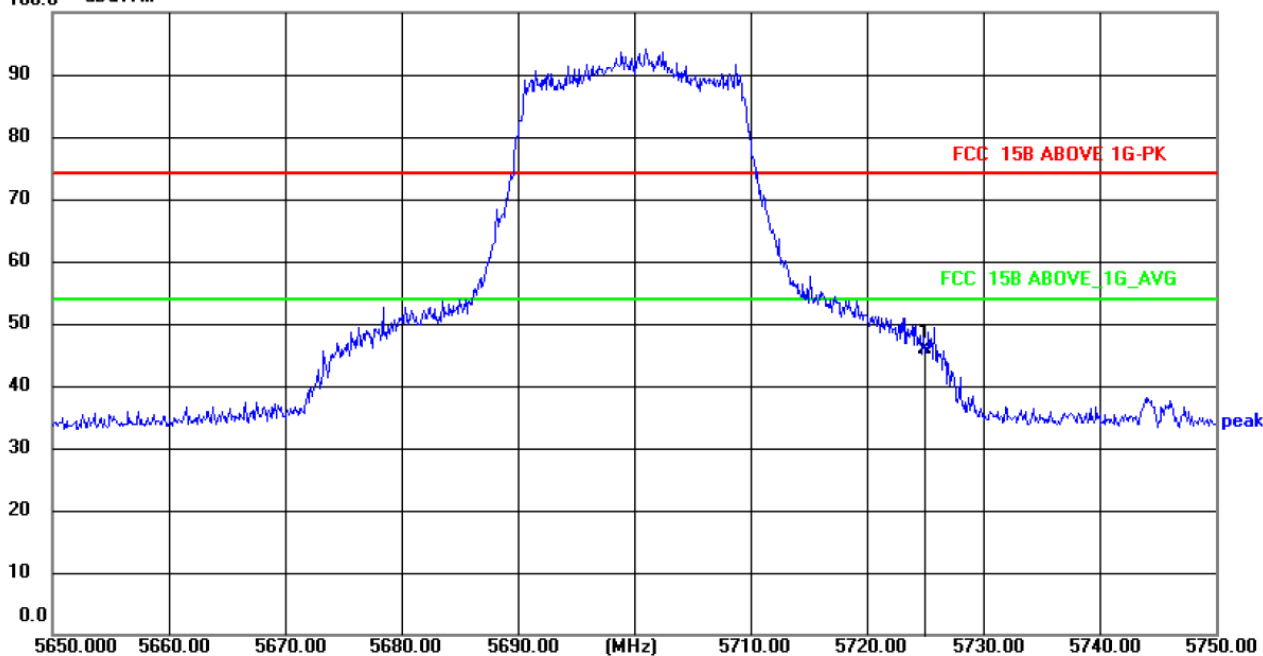


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	66.01	-17.13	48.88	74.00	25.12	peak



Vertical:

100.0 dBuV/m



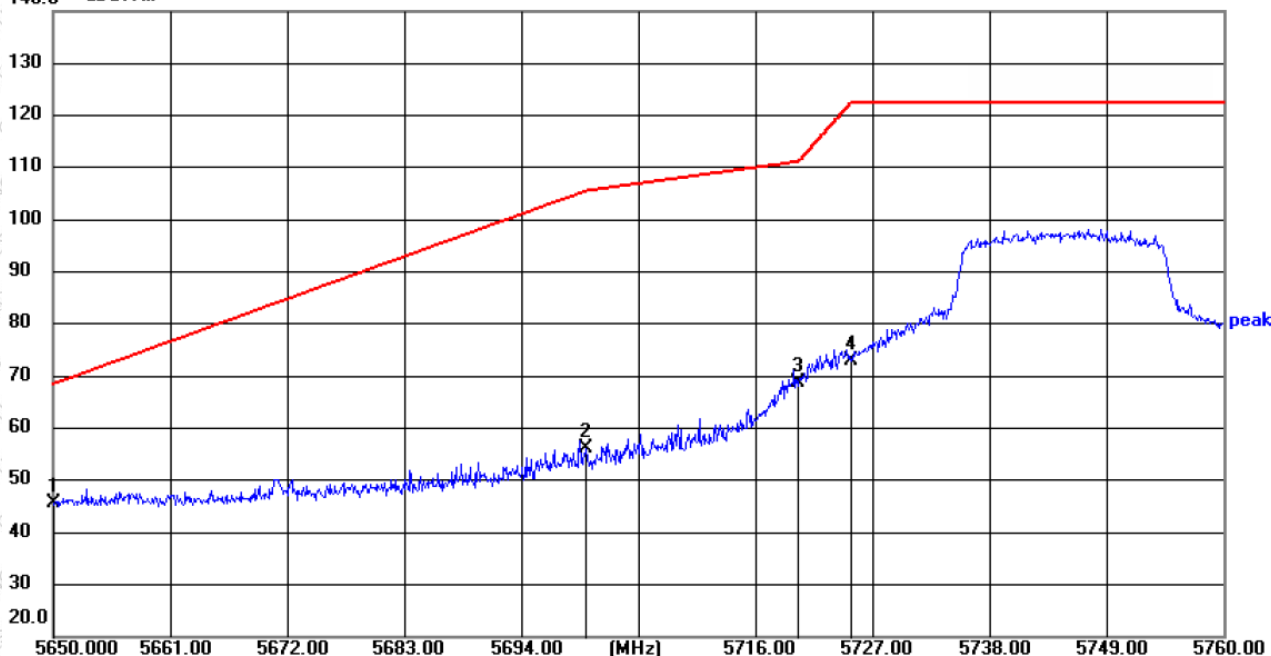
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	62.99	-17.13	45.86	74.00	28.14	peak



802.11ax20 5745MHz

Horizontal:

140.0 dBuV/m

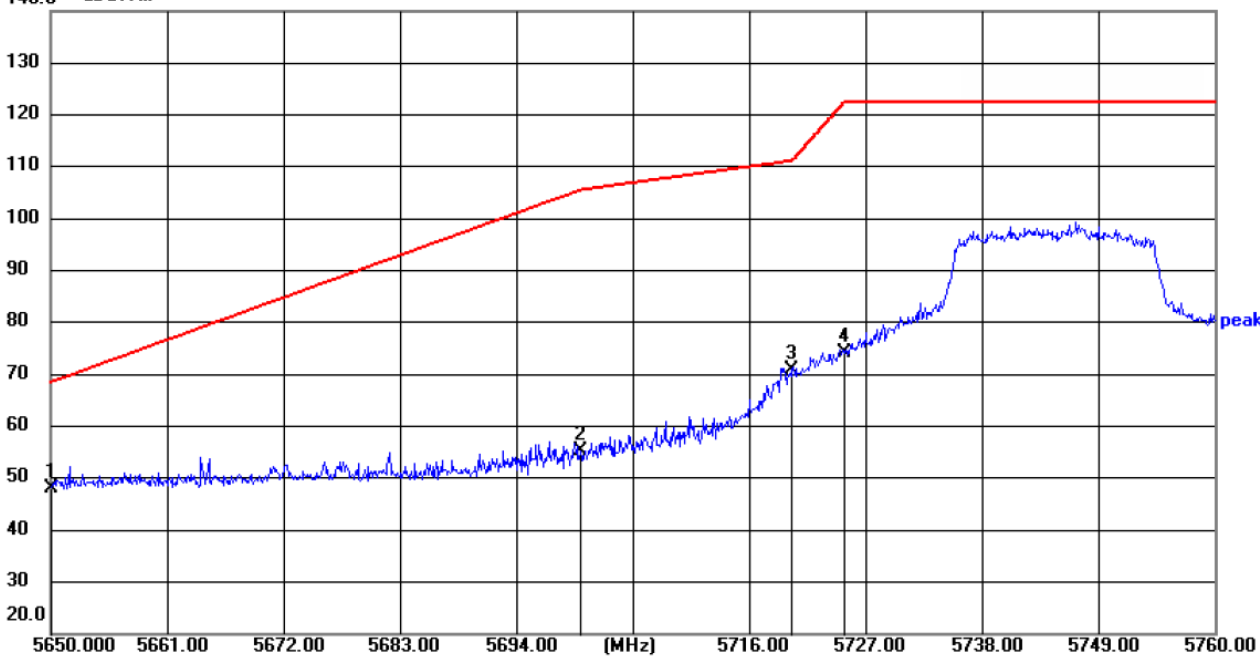


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.000	62.79	-17.16	45.63	68.23	22.60	peak
2	5700.000	73.17	-17.14	56.03	105.23	49.20	peak
3	5720.000	85.96	-17.14	68.82	110.83	42.01	peak
4	5725.000	90.21	-17.13	73.08	122.23	49.15	peak



Vertical:

140.0 dBuV/m



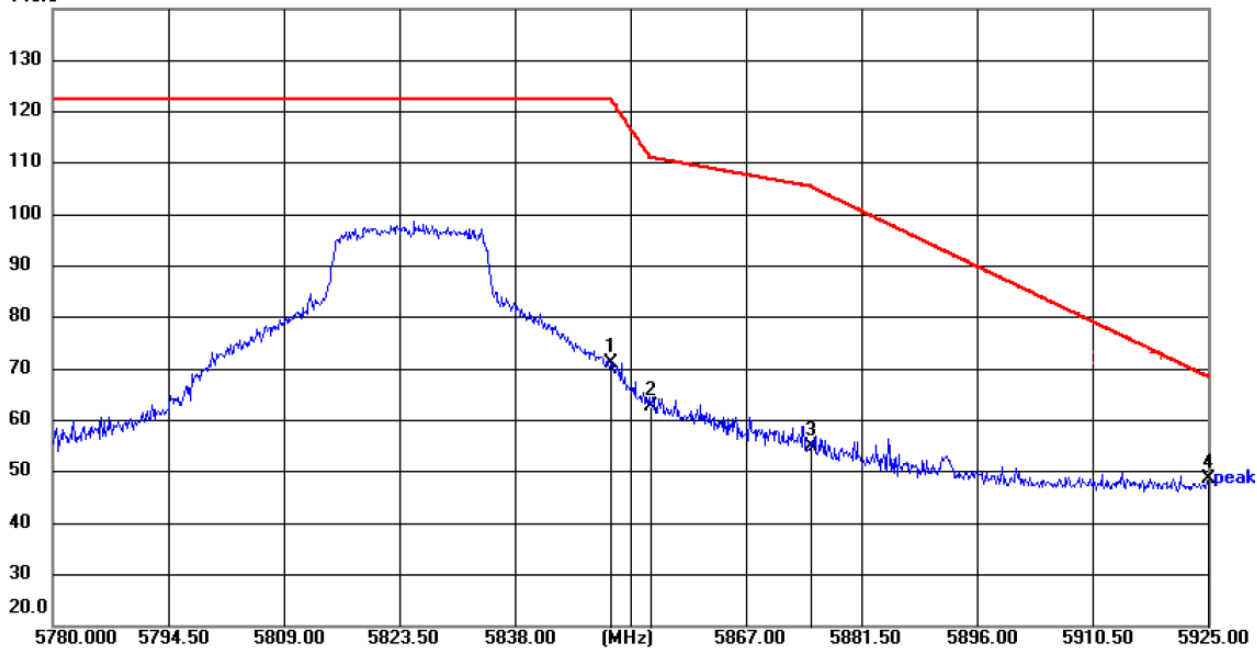
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.000	65.08	-17.16	47.92	68.23	20.31	peak
2	5700.000	72.53	-17.14	55.39	105.23	49.84	peak
3	5720.000	87.96	-17.14	70.82	110.83	40.01	peak
4	5725.000	91.29	-17.13	74.16	122.23	48.07	peak



802.11ax20 5825MHz

Horizontal:

140.0 dBuV/m

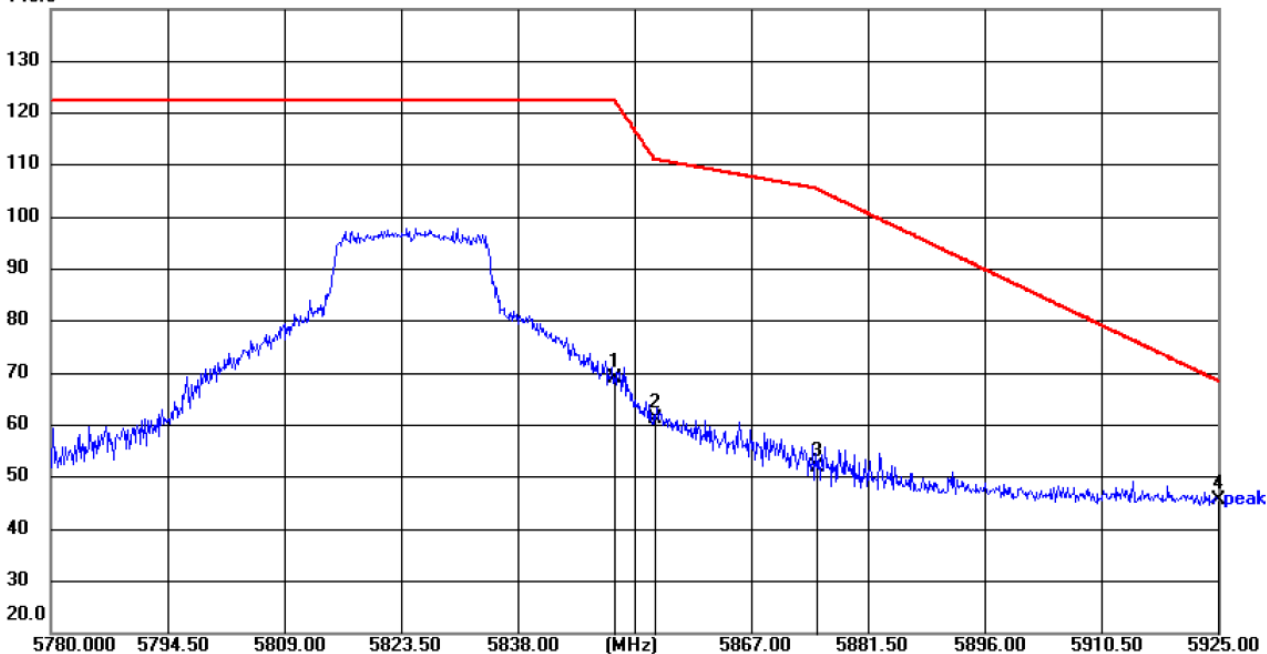


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	88.29	-17.09	71.20	122.23	51.03	peak
2	5855.000	79.99	-17.09	62.90	110.83	47.93	peak
3	5875.000	72.05	-17.08	54.97	105.23	50.26	peak
4 *	5925.000	65.74	-17.08	48.66	68.23	19.57	peak



Vertical:

140.0 dBuV/m

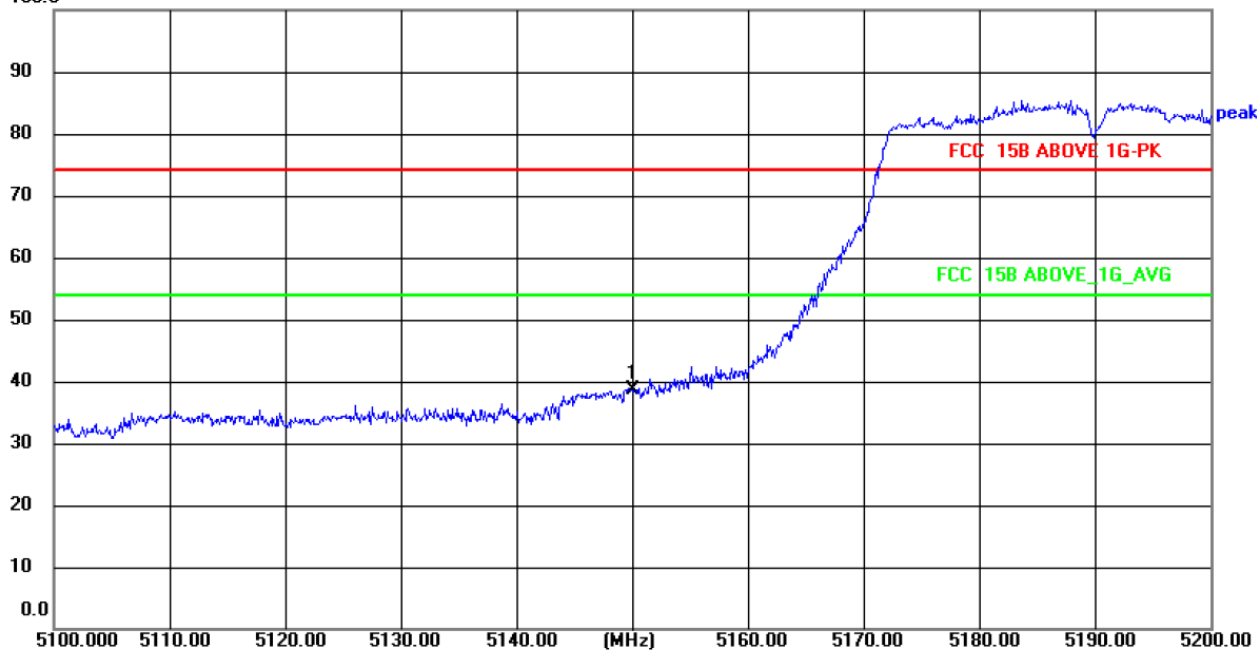


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	86.28	-17.09	69.19	122.23	53.04	peak
2	5855.000	78.35	-17.09	61.26	110.83	49.57	peak
3	5875.000	68.93	-17.08	51.85	105.23	53.38	peak
4 *	5925.000	62.77	-17.08	45.69	68.23	22.54	peak



802.11ax40 5190MHz

Horizontal:
100.0 dBuV/m

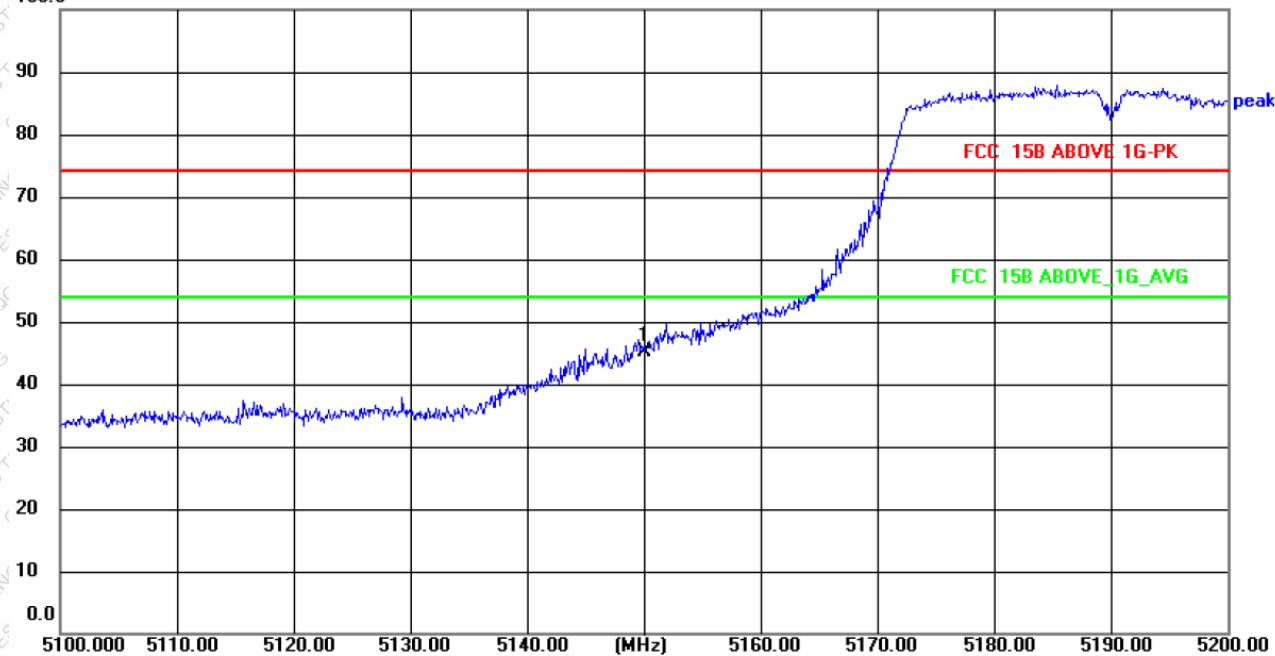


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	56.58	-17.94	38.64	74.00	35.36	peak



Vertical:

100.0 dBuV/m



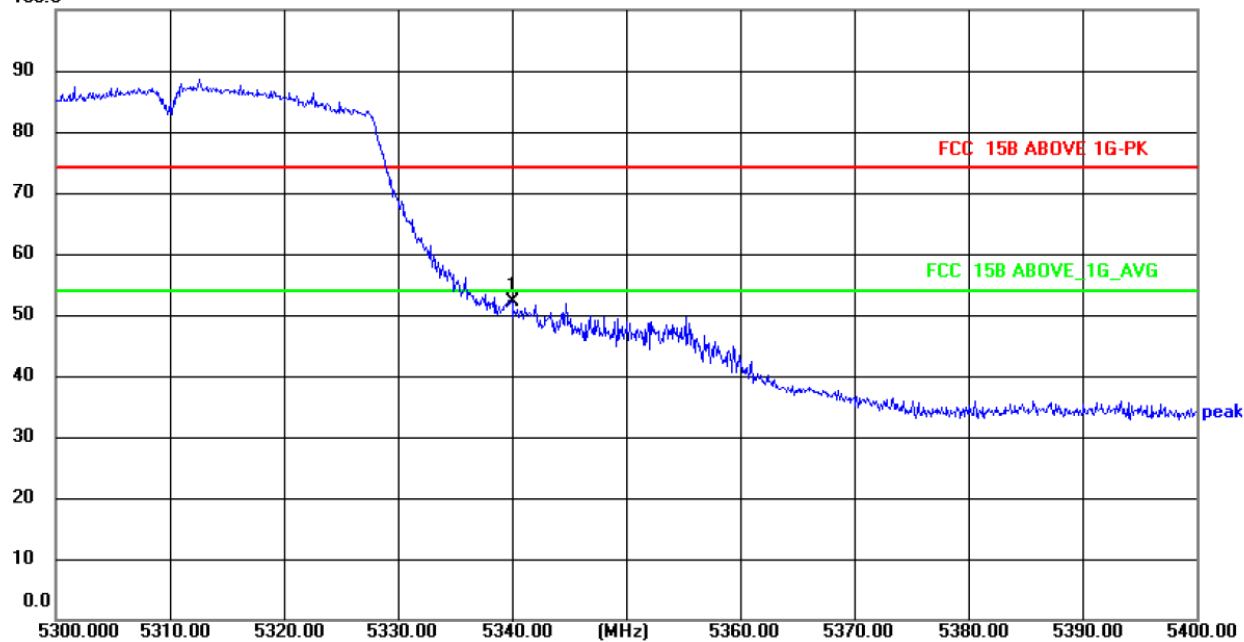
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	62.96	-17.94	45.02	74.00	28.98	peak



802.11ax40 5310MHz

Horizontal:

100.0 dBuV/m

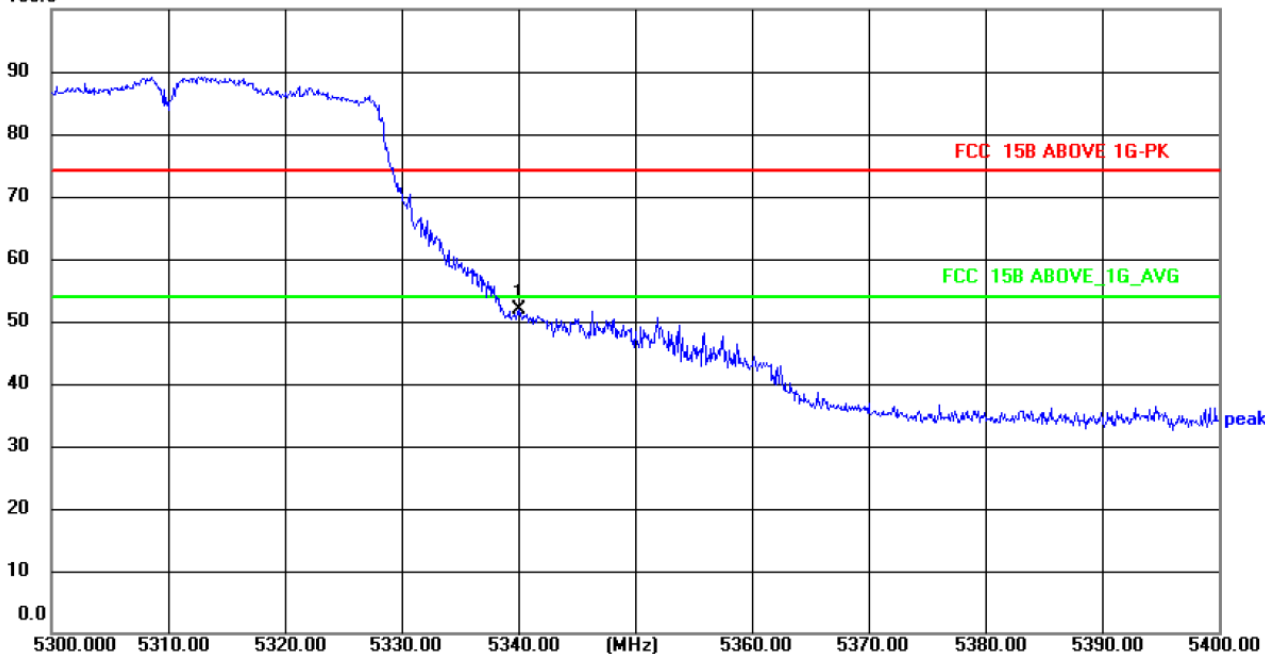


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5340.000	69.60	-17.53	52.07	74.00	21.93	peak



Vertical:

100.0 dBuV/m



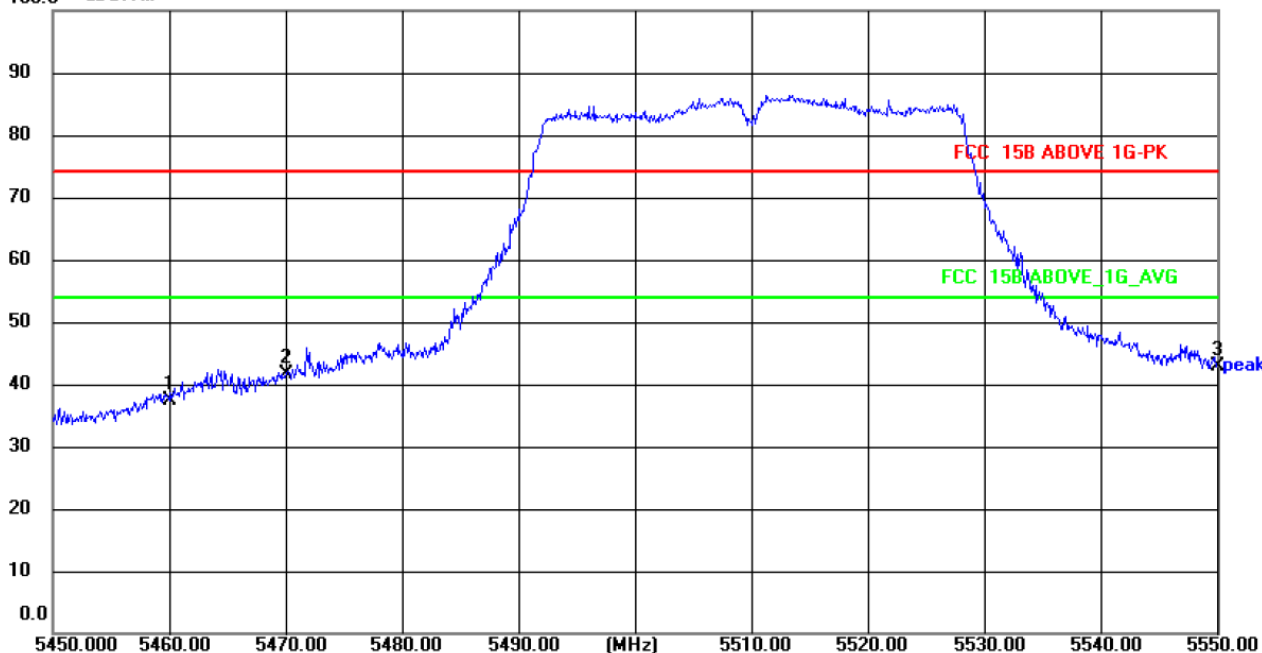
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5340.000	69.42	-17.53	51.89	74.00	22.11	peak



802.11ax40 5510MHz

Horizontal:

100.0 dBuV/m

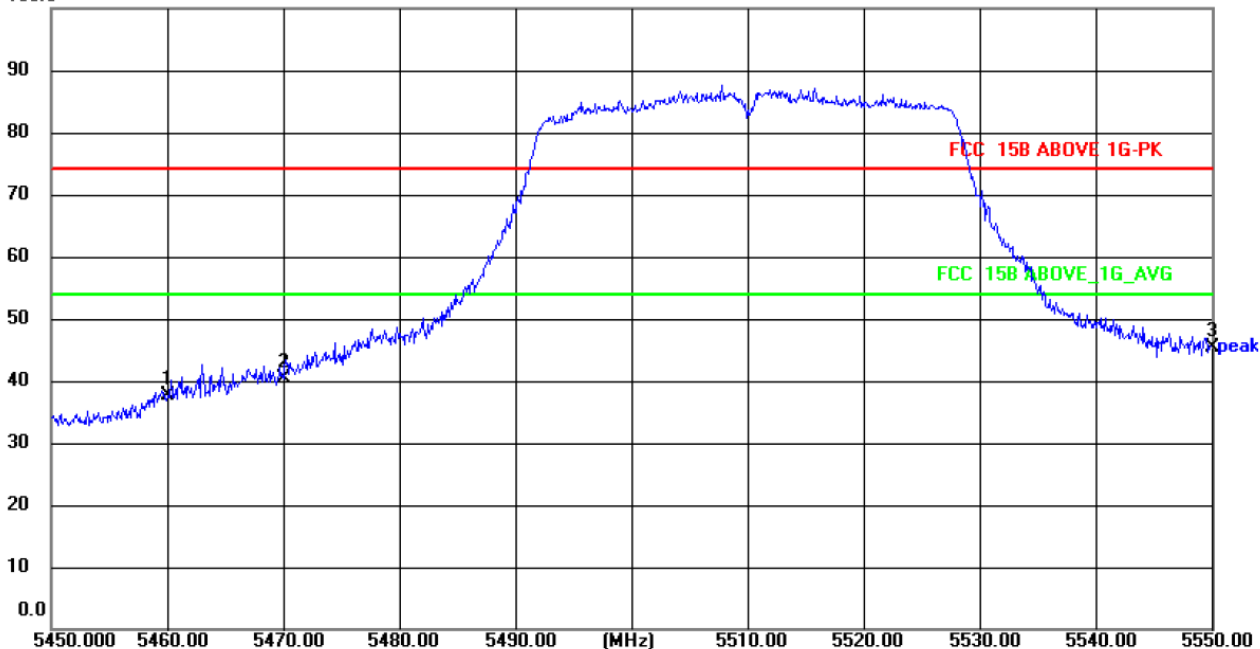


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5460.000	54.67	-17.28	37.39	74.00	36.61	peak
2	5470.000	58.92	-17.26	41.66	74.00	32.34	peak
3 *	5550.000	60.14	-17.18	42.96	74.00	31.04	peak



Vertical:

100.0 dBuV/m

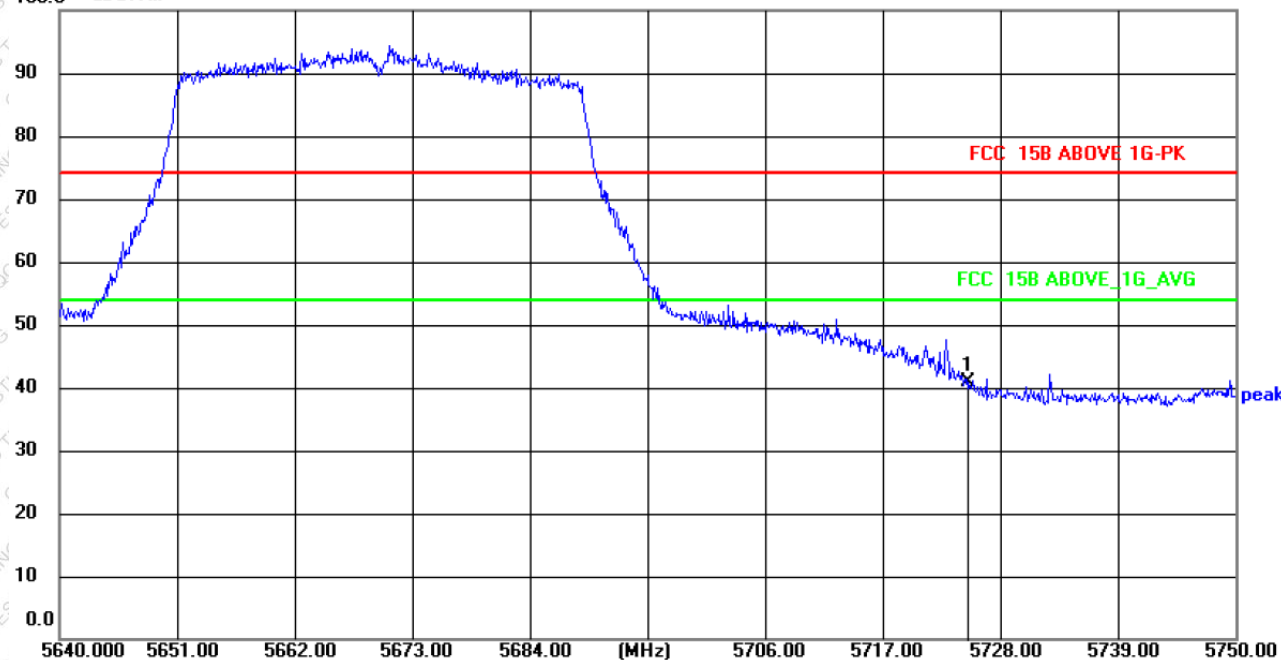


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5460.000	54.98	-17.28	37.70	74.00	36.30	peak
2	5470.000	57.76	-17.26	40.50	74.00	33.50	peak
3 *	5550.000	62.65	-17.18	45.47	74.00	28.53	peak



802.11ax40 5670MHz

Horizontal:
100.0 dBuV/m

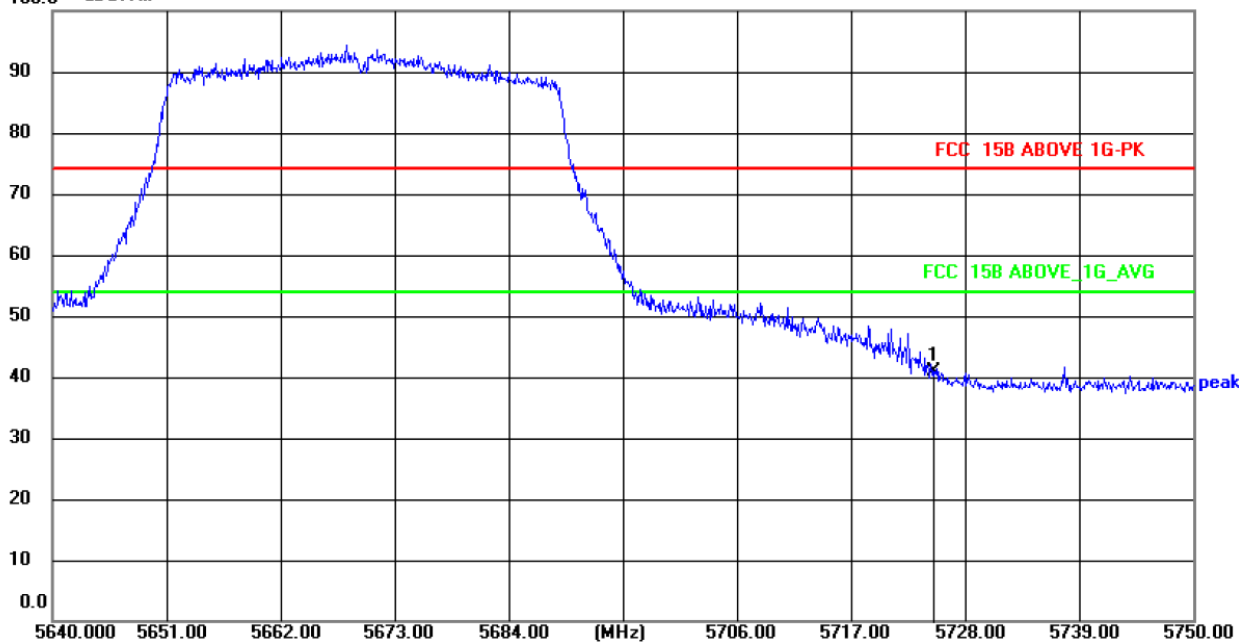


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	57.91	-17.13	40.78	74.00	33.22	peak



Vertical:

100.0 dBuV/m



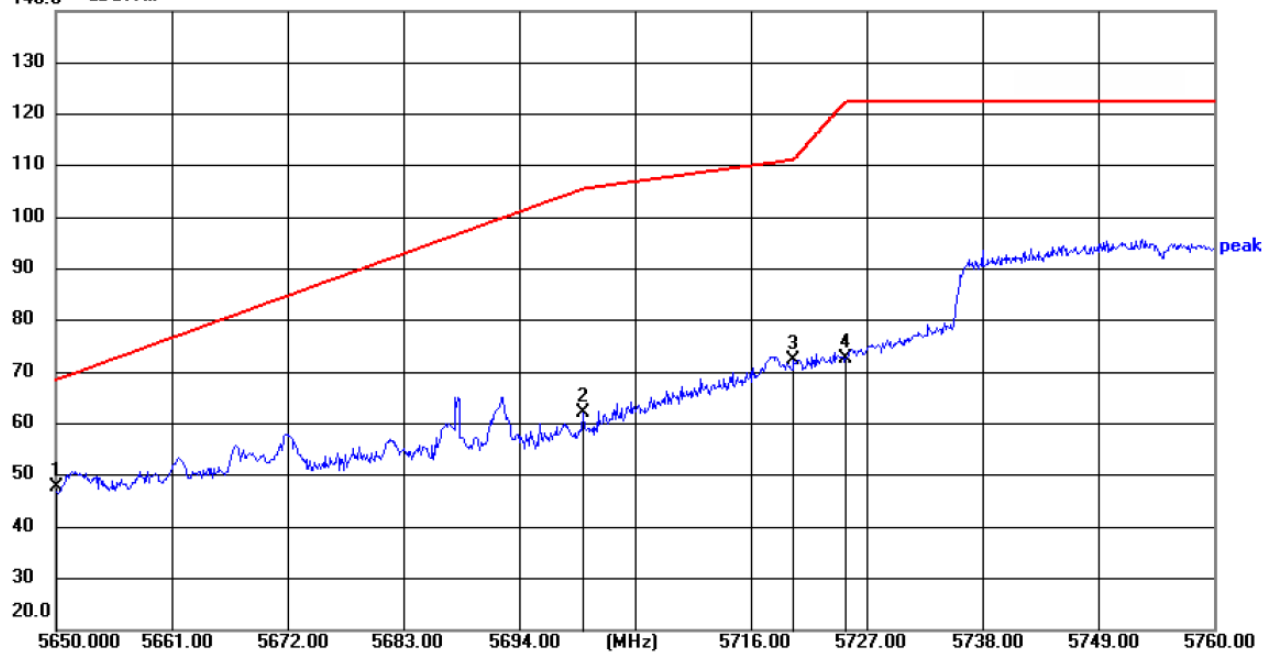
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	58.05	-17.13	40.92	74.00	33.08	peak



802.11ax40 5755MHz

Horizontal:

140.0 dBuV/m

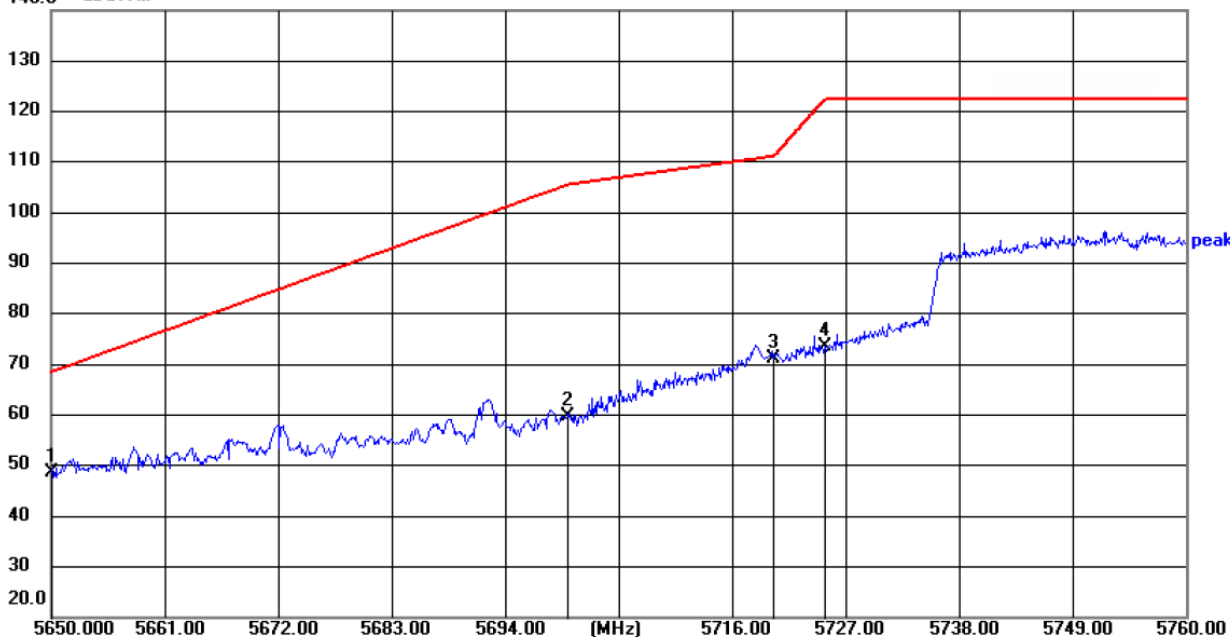


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.000	64.91	-17.16	47.75	68.23	20.48	peak
2	5700.000	79.43	-17.14	62.29	105.23	42.94	peak
3	5720.000	89.44	-17.14	72.30	110.83	38.53	peak
4	5725.000	89.83	-17.13	72.70	122.23	49.53	peak



Vertical:

140.0 dBuV/m



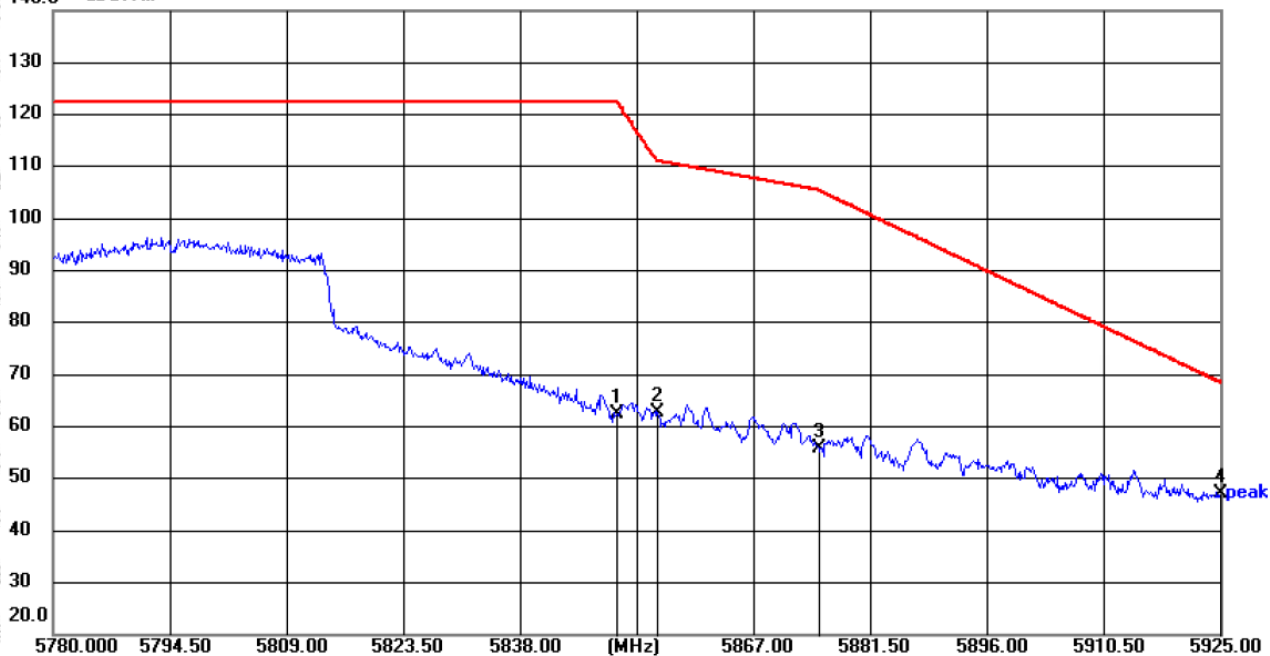
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.000	65.80	-17.16	48.64	68.23	19.59	peak
2	5700.000	77.02	-17.14	59.88	105.23	45.35	peak
3	5720.000	88.34	-17.14	71.20	110.83	39.63	peak
4	5725.000	90.61	-17.13	73.48	122.23	48.75	peak



802.11ax40 5795MHz

Horizontal:

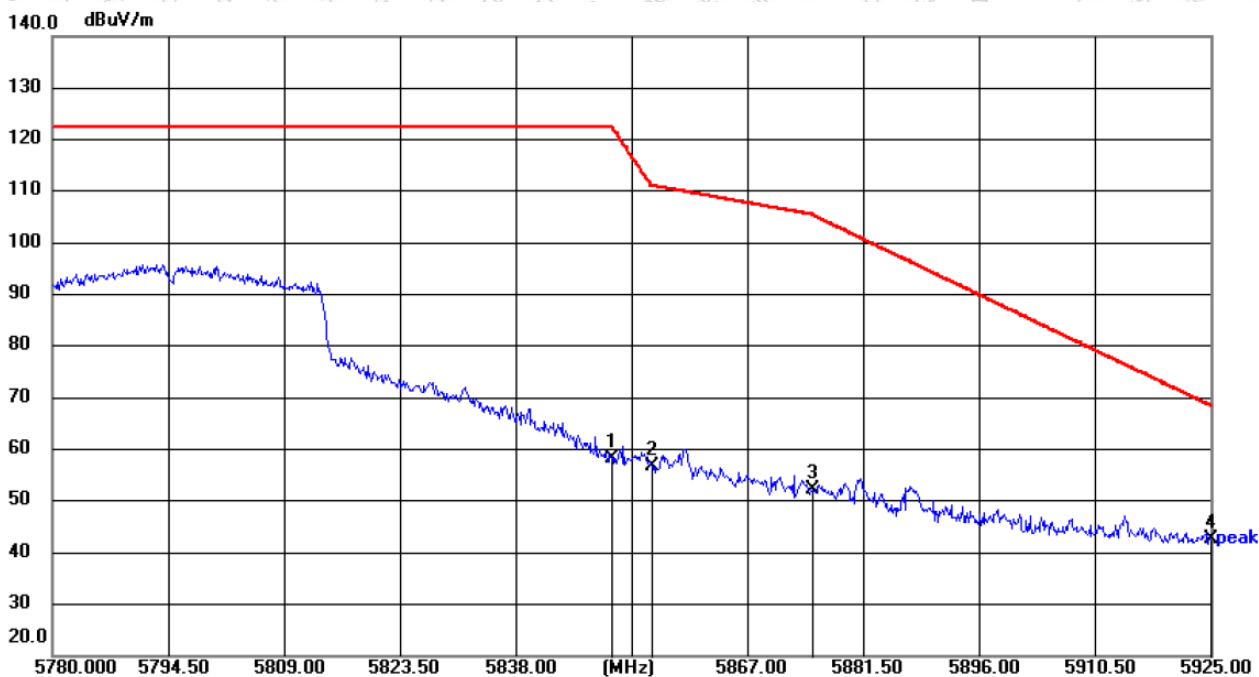
140.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	79.63	-17.09	62.54	122.23	59.69	peak
2	5855.000	79.87	-17.09	62.78	110.83	48.05	peak
3	5875.000	72.82	-17.08	55.74	105.23	49.49	peak
4 *	5925.000	64.32	-17.08	47.24	68.23	20.99	peak



Vertical:



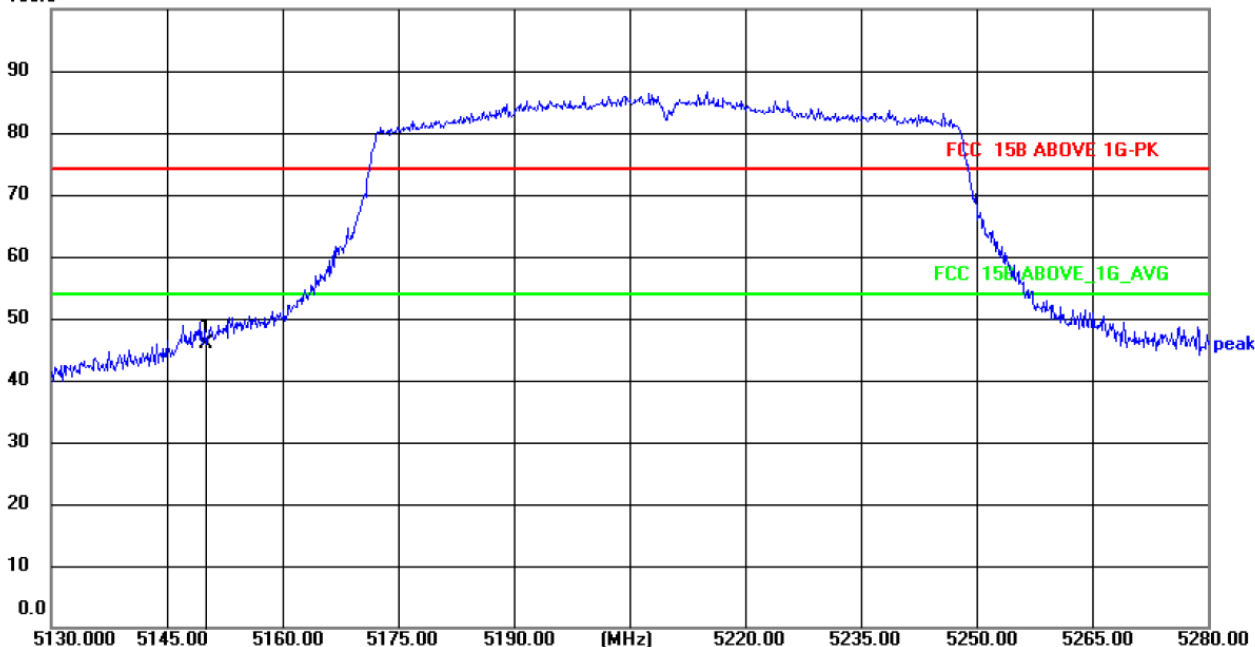
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	75.37	-17.09	58.28	122.23	63.95	peak
2	5855.000	73.75	-17.09	56.66	110.83	54.17	peak
3	5875.000	69.18	-17.08	52.10	105.23	53.13	peak
4 *	5925.000	59.88	-17.08	42.80	68.23	25.43	peak



802.11ax80 5210MHz

Horizontal:

100.0 dBuV/m

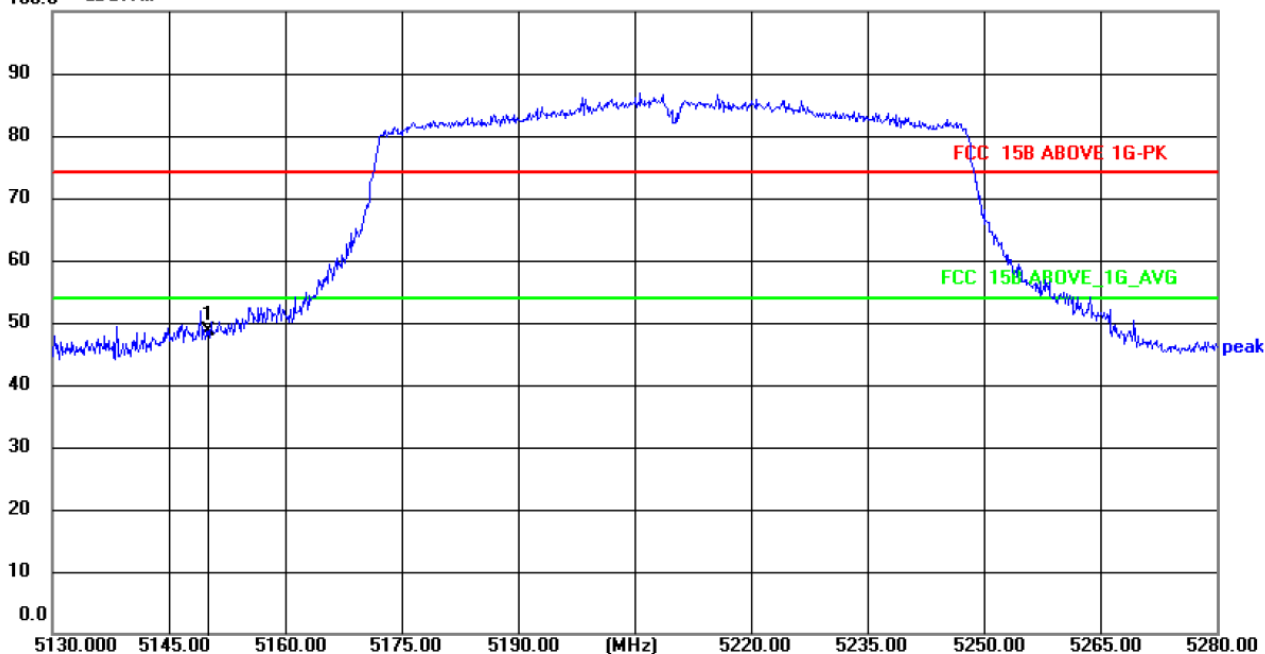


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	63.86	-17.94	45.92	74.00	28.08	peak



Vertical:

100.0 dBuV/m



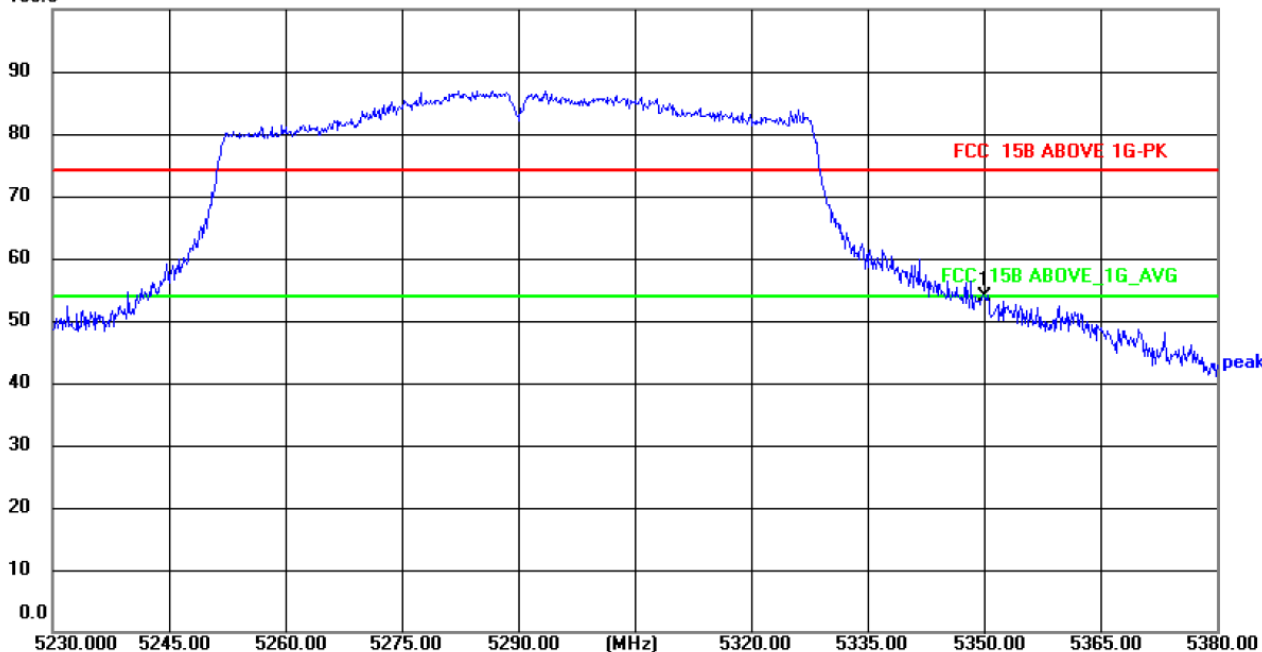
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	66.67	-17.94	48.73	74.00	25.27	peak



802.11ax80 5290MHz

Horizontal:

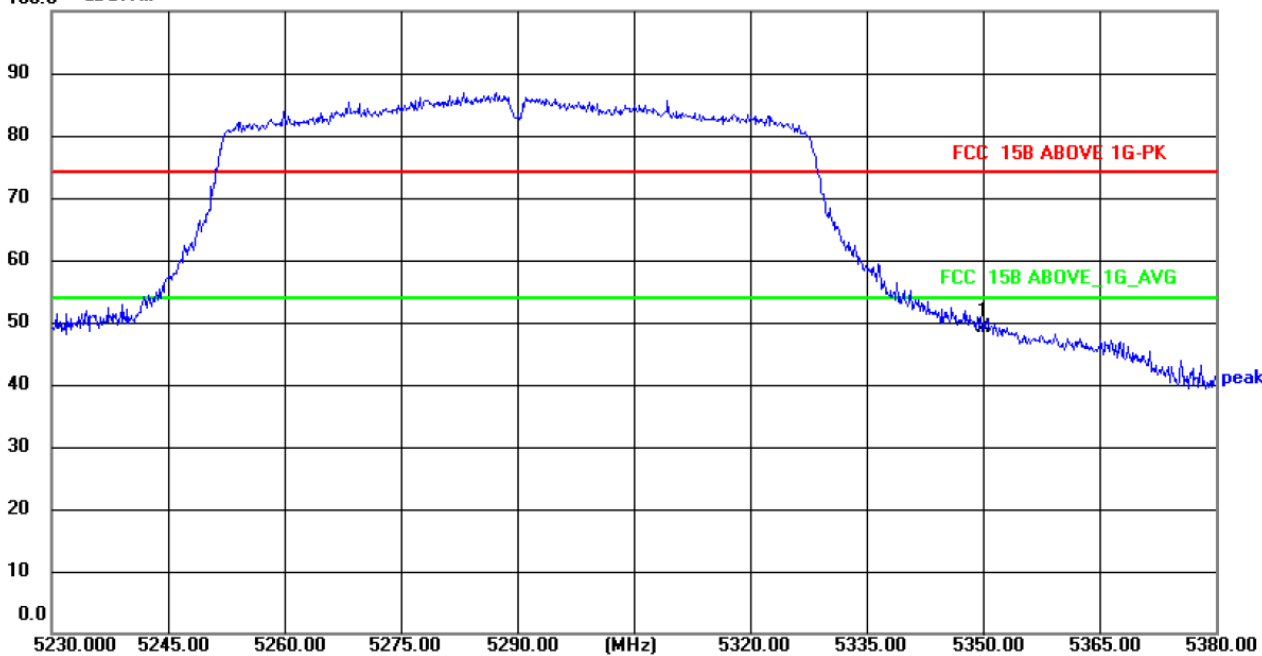
100.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5350.000	71.48	-17.51	53.97	74.00	20.03	peak



Vertical:
100.0 dBuV/m



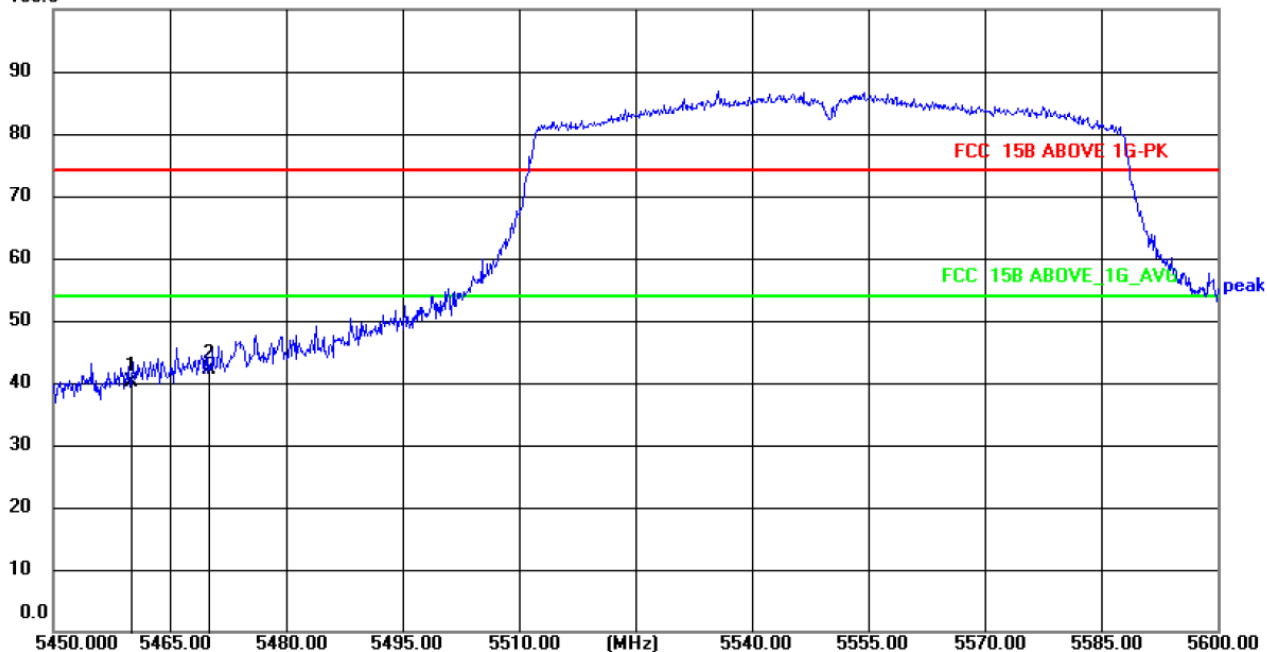
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5350.000	66.66	-17.51	49.15	74.00	24.85	peak



802.11ax80 5530MHz

Horizontal:

100.0 dBuV/m

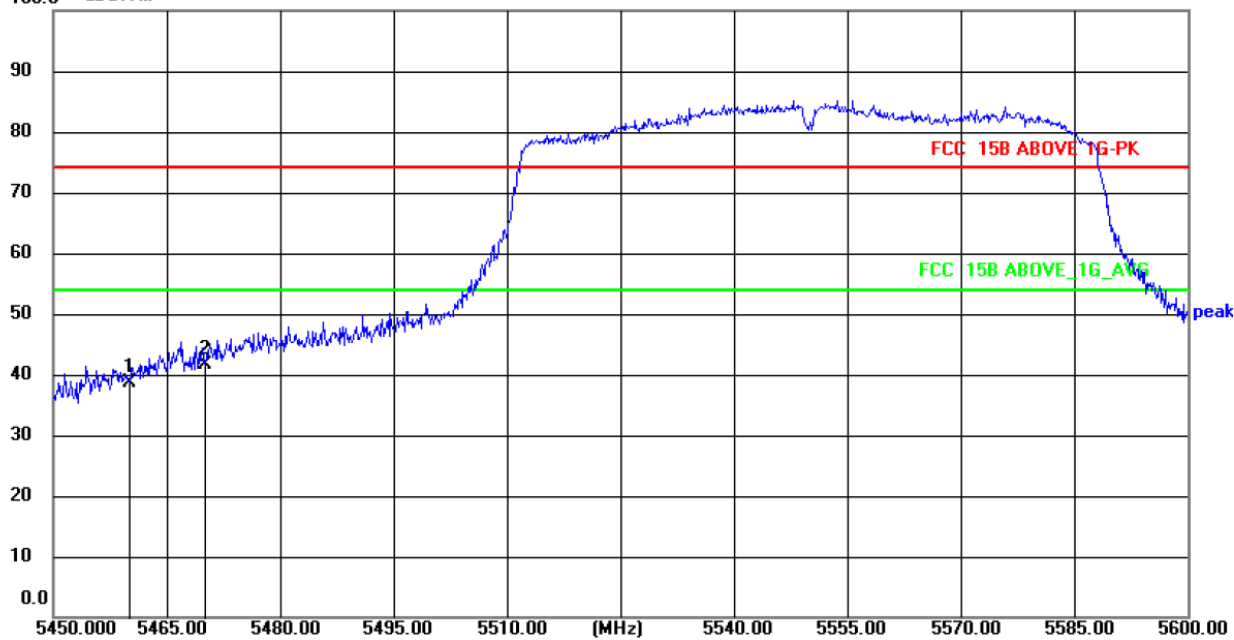


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5460.000	57.30	-17.28	40.02	74.00	33.98	peak
2 *	5470.000	59.49	-17.26	42.23	74.00	31.77	peak



Vertical:

100.0 dBuV/m



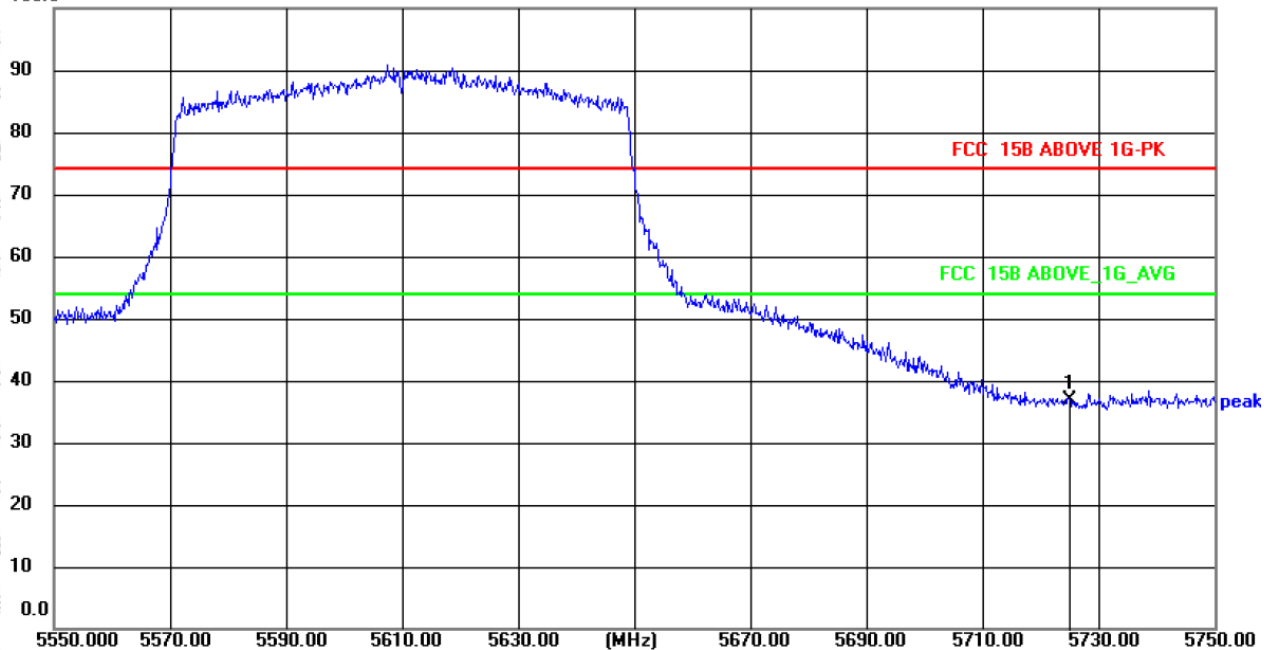
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5460.000	55.85	-17.28	38.57	74.00	35.43	peak
2 *	5470.000	58.93	-17.26	41.67	74.00	32.33	peak



802.11ax80 5610MHz

Horizontal:

100.0 dBuV/m

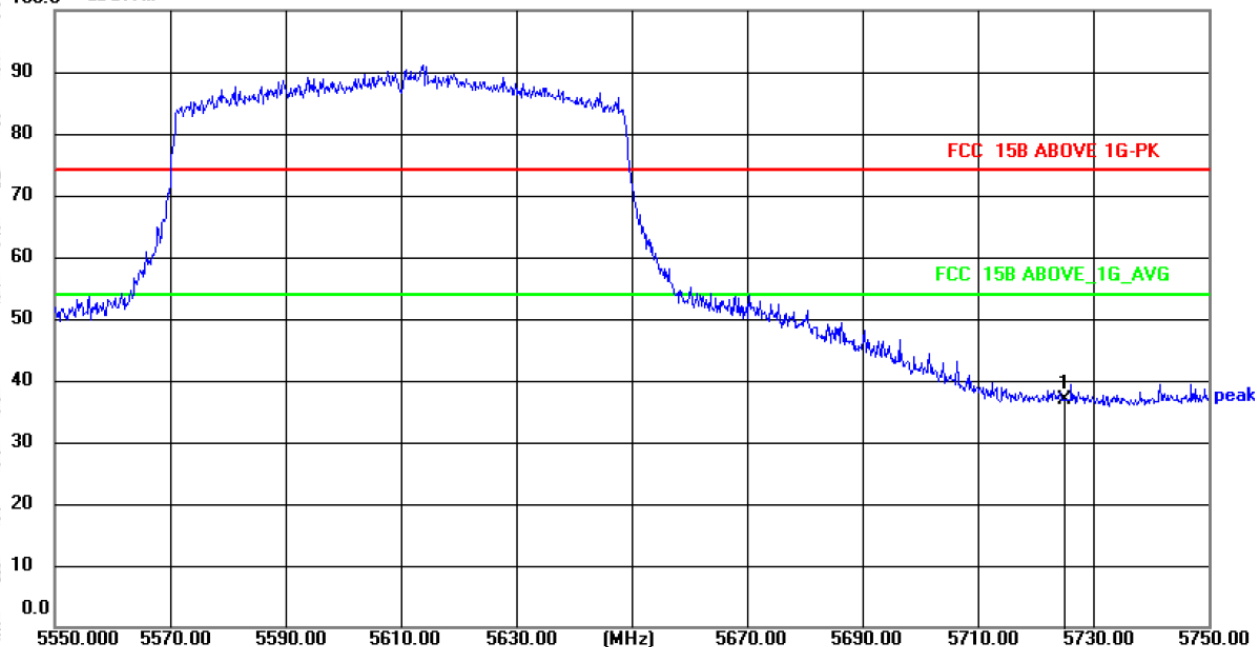


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	53.98	-17.13	36.85	74.00	37.15	peak



Vertical:

100.0 dBuV/m



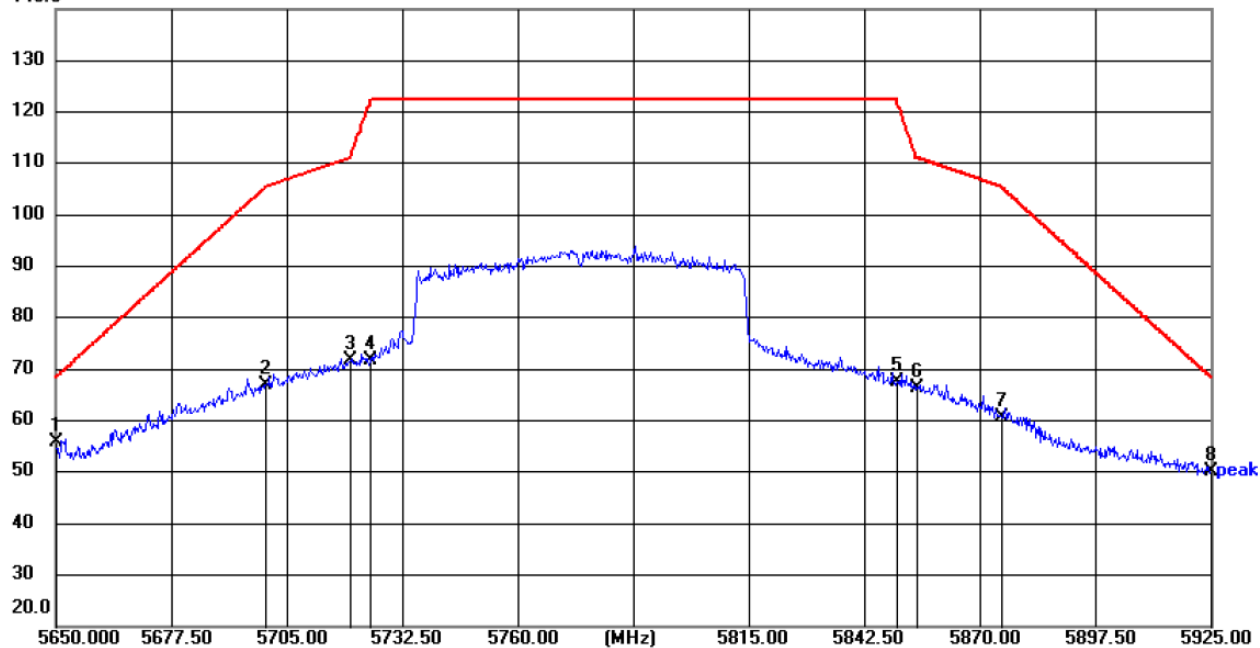
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	54.03	-17.13	36.90	74.00	37.10	peak



802.11ax80 5775MHz

Horizontal:

140.0 dBuV/m

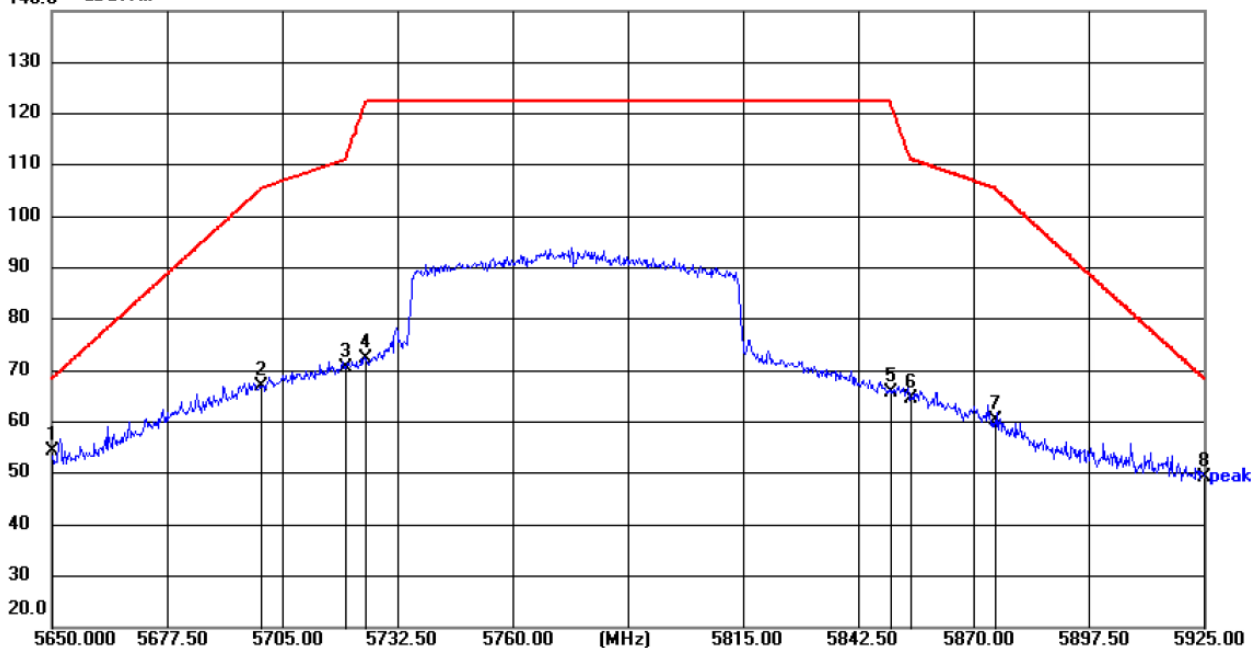


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.000	73.12	-17.16	55.96	68.23	12.27	peak
2	5700.000	84.14	-17.14	67.00	105.23	38.23	peak
3	5720.000	88.80	-17.14	71.66	110.83	39.17	peak
4	5725.000	88.92	-17.13	71.79	122.23	50.44	peak
5	5850.000	84.50	-17.09	67.41	122.23	54.82	peak
6	5855.000	83.52	-17.09	66.43	110.83	44.40	peak
7	5875.000	77.61	-17.08	60.53	105.23	44.70	peak
8	5925.000	67.21	-17.08	50.13	68.23	18.10	peak



Vertical:

140.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5650.000	71.63	-17.16	54.47	68.23	13.76	peak
2	5700.000	84.15	-17.14	67.01	105.23	38.22	peak
3	5720.000	87.74	-17.14	70.60	110.83	40.23	peak
4	5725.000	89.41	-17.13	72.28	122.23	49.95	peak
5	5850.000	82.89	-17.09	65.80	122.23	56.43	peak
6	5855.000	81.63	-17.09	64.54	110.83	46.29	peak
7	5875.000	77.48	-17.08	60.40	105.23	44.83	peak
8	5925.000	66.21	-17.08	49.13	68.23	19.10	peak

10. Radiated Emission Method

10.1 Applicable Standard

FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4)

10.2 Limit

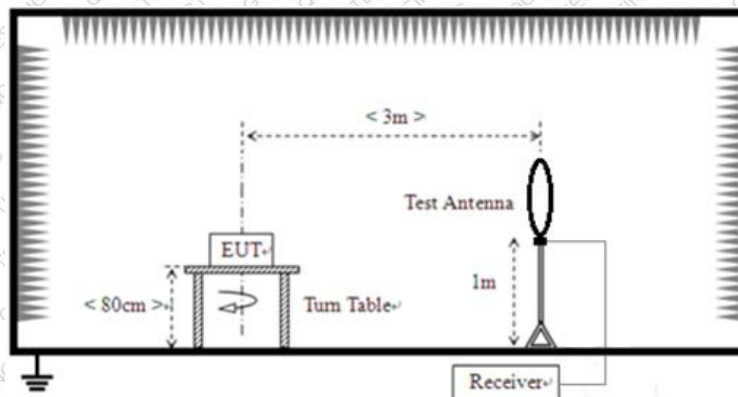
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	30m
1.705MHz-30MHz	30	QP	30m

Frequency	Field Strengths Limits ($\mu\text{V/m}$ at 3 m)	Field Strengths Limits (dB $\mu\text{V/m}$ at 3 m)	Remark
30 – 88	100	40.0	Quasi-peak
88 – 216	150	43.5	Quasi-peak
216 – 960	200	46.0	Quasi-peak
Above 960	500	54.0	Quasi-peak
Above 1GHz	/	54.0	Peak
		74.0	Average

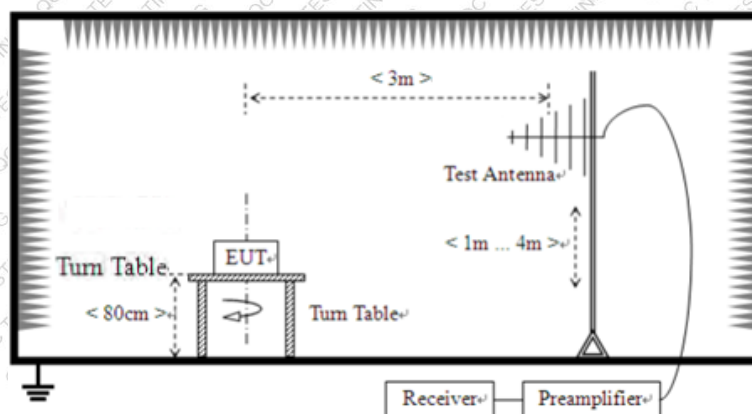
Note: dB $\mu\text{V/m}$ = 20log($\mu\text{V/m}$)

10.3 Test setup

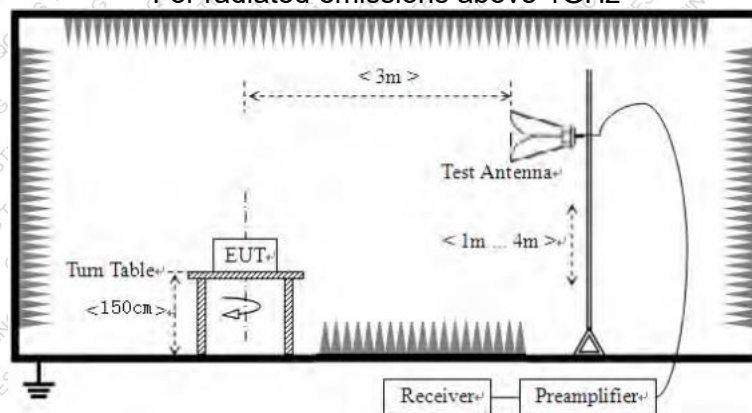
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



10.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	/	QP
150KHz-30MHz	9KHz	30KHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz ^{Note 1}	/	Average
1MHz	1MHz	> 1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

10.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

10.6 Test Data

Temperature	26 °C	Humidity	54%
ATM Pressure	101.1kPa	Antenna Gain	see page 5
Test by	LBi Li	Test result	PASS

Remarks:

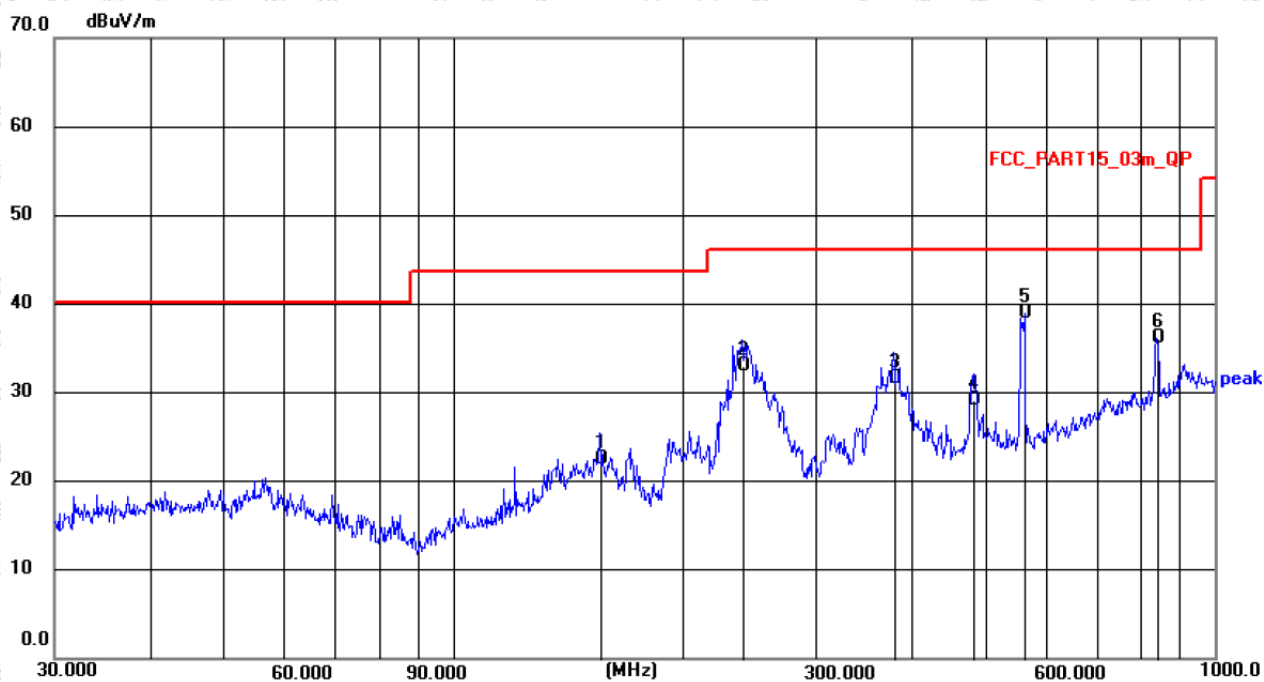
- Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- Data of measurement within frequency range 9kHz-30MHz, 1-40GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.
- During the test, pre-scan the all modulation, and the worst mode (802.11a Ant1, 802.11n/802.11ac/ 802.11ax MIMO) is recorded in the report.



Below 1GHz

Pre-scan all test modes, found worst case at 802.11a mode bandwidth is 20MHz, and so only show the test result of 802.11a mode 5180MHz.

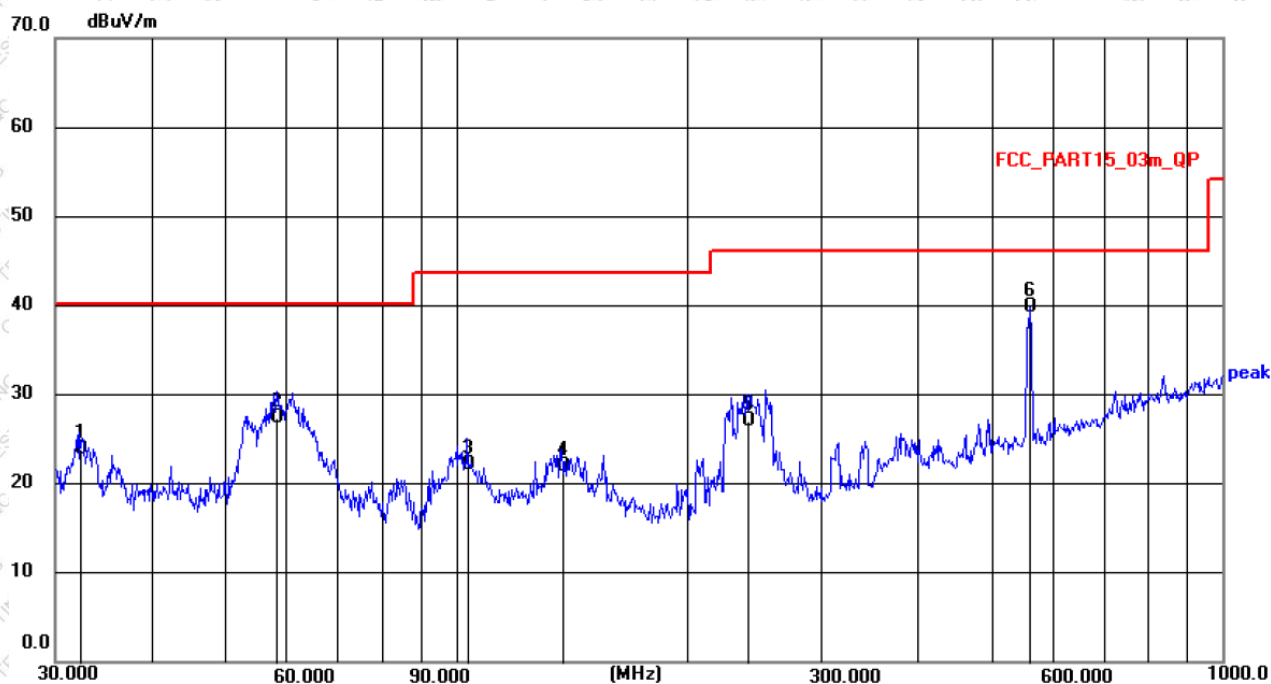
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	155.9101	7.80	14.66	22.46	43.50	21.04	QP
2	239.9874	19.78	13.24	33.02	46.00	12.98	QP
3	378.5843	14.43	17.11	31.54	46.00	14.46	QP
4	483.9094	9.42	19.69	29.11	46.00	16.89	QP
5 *	562.6624	18.08	20.78	38.86	46.00	7.14	QP
6	839.1818	10.95	25.27	36.22	46.00	9.78	QP



Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.2925	10.93	12.88	23.81	40.00	16.19	QP
2	58.4074	13.60	13.73	27.33	40.00	12.67	QP
3	103.4421	10.56	11.61	22.17	43.50	21.33	QP
4	137.4202	7.83	14.16	21.99	43.50	21.51	QP
5	239.9874	13.62	13.44	27.06	46.00	18.94	QP
6 *	560.6928	19.12	20.62	39.74	46.00	6.26	QP



Above 1GHz

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
802.11a 5180MHz							
10360	49.71	H	-5.39	44.32	68.2	23.88	peak
10360	50	V	-5.39	44.61	68.2	23.59	peak
802.11a 5200MHz							
10400	48.84	H	-5.29	43.55	68.2	24.65	peak
10400	46.58	V	-5.29	41.29	68.2	26.91	peak
802.11a 5240MHz							
10480	48.98	H	-5.08	43.9	68.2	24.3	peak
10480	48.09	V	-5.08	43.01	68.2	25.19	peak
802.11a 5260MHz							
10520	47.68	H	-4.97	42.71	68.2	25.49	peak
10520	46.21	V	-4.97	41.24	68.2	26.96	peak
802.11a 5300MHz							
10600	48.56	H	-4.76	43.8	68.2	24.4	peak
10600	46.4	V	-4.76	41.64	68.2	26.56	peak
802.11a 5320MHz							
10640	46.47	H	-4.66	41.81	68.2	26.39	peak
10640	46.58	V	-4.66	41.92	68.2	26.28	peak
802.11a 5500MHz							
11000	46.75	H	-3.71	43.04	68.2	25.16	peak
11000	46.79	V	-3.71	43.08	68.2	25.12	peak
802.11a 5580MHz							
11160	45.64	H	-3.56	42.08	68.2	26.12	peak
11160	45.27	V	-3.56	41.71	68.2	26.49	peak
802.11a 5700MHz							
11400	46.81	H	-3.34	43.47	68.2	24.73	peak
11400	46.49	V	-3.34	43.15	68.2	25.05	peak
802.11a 5720MHz							
11440	45.03	H	-3.3	41.73	68.2	26.47	peak
11440	45.37	V	-3.3	42.07	68.2	26.13	peak
802.11a 5745MHz							
11490	45.54	H	-3.25	42.29	68.2	25.91	peak
11490	47.28	V	-3.25	44.03	68.2	24.17	peak
802.11a 5785MHz							
11570	46.91	H	-3.18	43.73	68.2	24.47	peak
11570	46.76	V	-3.18	43.58	68.2	24.62	peak
802.11a 5825MHz							
11650	46.49	H	-3.12	43.37	68.2	24.83	peak
11650	46.56	V	-3.12	43.44	68.2	24.76	peak
802.11n20 5180MHz							



10360	48.52	H	-5.39	43.13	68.2	25.07	peak
10360	48.38	V	-5.39	42.99	68.2	25.21	peak
802.11n20 5200MHz							
10400	47.81	H	-5.29	42.52	68.2	25.68	peak
10400	47.06	V	-5.29	41.77	68.2	26.43	peak
802.11n20 5240MHz							
10480	47.33	H	-5.08	42.25	68.2	25.95	peak
10480	46.44	V	-5.08	41.36	68.2	26.84	peak
802.11n20 5260MHz							
10520	46.92	H	-4.97	41.95	68.2	26.25	peak
10520	46.33	V	-4.97	41.36	68.2	26.84	peak
802.11n20 5300MHz							
10600	46.09	H	-4.76	41.33	68.2	26.87	peak
10600	44.96	V	-4.76	40.2	68.2	28	peak
802.11n20 5320MHz							
10640	45.55	H	-4.66	40.89	68.2	27.31	peak
10640	45.37	V	-4.66	40.71	68.2	27.49	peak
802.11n20 5500MHz							
11000	45.9	H	-3.71	42.19	68.2	26.01	peak
11000	46.88	V	-3.71	43.17	68.2	25.03	peak
802.11n20 5580MHz							
11160	46.02	H	-3.56	42.46	68.2	25.74	peak
11160	44.45	V	-3.56	40.89	68.2	27.31	peak
802.11n20 5700MHz							
11400	44.99	H	-3.34	41.65	68.2	26.55	peak
11400	45.72	V	-3.34	42.38	68.2	25.82	peak
802.11n20 5720MHz							
11440	45.29	H	-3.3	41.99	68.2	26.21	peak
11440	45.53	V	-3.3	42.23	68.2	25.97	peak
802.11n20 5745MHz							
11490	45.48	H	-3.25	42.23	68.2	25.97	peak
11490	45.97	V	-3.25	42.72	68.2	25.48	peak
802.11n20 5785MHz							
11570	46.97	H	-3.18	43.79	68.2	24.41	peak
11570	47.66	V	-3.18	44.48	68.2	23.72	peak
802.11n20 5825MHz							
11650	46.88	H	-3.12	43.76	68.2	24.44	peak
11650	47.09	V	-3.12	43.97	68.2	24.23	peak
802.11ac20 5180MHz							
10360	49.06	H	-5.39	43.67	68.2	24.53	peak
10360	48.12	V	-5.39	42.73	68.2	25.47	peak
802.11ac20 5200MHz							
10400	47.98	H	-5.29	42.69	68.2	25.51	peak
10400	45.33	V	-5.29	40.04	68.2	28.16	peak



802.11ac20 5240MHz							
10480	46.51	H	-5.08	41.43	68.2	26.77	peak
10480	46.51	V	-5.08	41.43	68.2	26.77	peak
802.11ac20 5260MHz							
10520	47.54	H	-4.97	42.57	68.2	25.63	peak
10520	46.1	V	-4.97	41.13	68.2	27.07	peak
802.11ac20 5300MHz							
10600	47.28	H	-4.76	42.52	68.2	25.68	peak
10600	47.44	V	-4.76	42.68	68.2	25.52	peak
802.11ac20 5320MHz							
10640	45.84	H	-4.66	41.18	68.2	27.02	peak
10640	47.14	V	-4.66	42.48	68.2	25.72	peak
802.11ac20 5500MHz							
11000	46.51	H	-3.71	42.8	68.2	25.4	peak
11000	46.34	V	-3.71	42.63	68.2	25.57	peak
802.11ac20 5580MHz							
11160	46.32	H	-3.56	42.76	68.2	25.44	peak
11160	44.47	V	-3.56	40.91	68.2	27.29	peak
802.11ac20 5700MHz							
11400	45.13	H	-3.34	41.79	68.2	26.41	peak
11400	45.81	V	-3.34	42.47	68.2	25.73	peak
802.11ac20 5720MHz							
11440	46.07	H	-3.3	42.77	68.2	25.43	peak
11440	45.29	V	-3.3	41.99	68.2	26.21	peak
802.11ac20 5745MHz							
11490	44.97	H	-3.25	41.72	68.2	26.48	peak
11490	47.4	V	-3.25	44.15	68.2	24.05	peak
802.11ac20 5785MHz							
11570	46.04	H	-3.18	42.86	68.2	25.34	peak
11570	46.39	V	-3.18	43.21	68.2	24.99	peak
802.11ac20 5825MHz							
11650	45.6	H	-3.12	42.48	68.2	25.72	peak
11650	46.71	V	-3.12	43.59	68.2	24.61	peak
802.11ax20 5180MHz							
10360	48.56	H	-5.39	43.17	68.2	25.03	peak
10360	48.13	V	-5.39	42.74	68.2	25.46	peak
802.11ax20 5200MHz							
10400	48.11	H	-5.29	42.82	68.2	25.38	peak
10400	46.79	V	-5.29	41.5	68.2	26.7	peak
802.11ax20 5240MHz							
10480	47.67	H	-5.08	42.59	68.2	25.61	peak
10480	45.68	V	-5.08	40.6	68.2	27.6	peak
802.11ax20 5260MHz							
10520	46.99	H	-4.97	42.02	68.2	26.18	peak



10520	46.99	V	-4.97	42.02	68.2	26.18	peak
802.11ax20 5300MHz							
10600	48.53	H	-4.76	43.77	68.2	24.43	peak
10600	46.42	V	-4.76	41.66	68.2	26.54	peak
802.11ax20 5320MHz							
10640	45.83	H	-4.66	41.17	68.2	27.03	peak
10640	46.22	V	-4.66	41.56	68.2	26.64	peak
802.11ax20 5500MHz							
11000	46.98	H	-3.71	43.27	68.2	24.93	peak
11000	46.98	V	-3.71	43.27	68.2	24.93	peak
802.11ax20 5580MHz							
11160	46.45	H	-3.56	42.89	68.2	25.31	peak
11160	45.52	V	-3.56	41.96	68.2	26.24	peak
802.11ax20 5700MHz							
11400	45.22	H	-3.34	41.88	68.2	26.32	peak
11400	45.98	V	-3.34	42.64	68.2	25.56	peak
802.11ax20 5720MHz							
11440	44.65	H	-3.3	41.35	68.2	26.85	peak
11440	43.53	V	-3.3	40.23	68.2	27.97	peak
802.11ax20 5745MHz							
11490	44.36	H	-3.25	41.11	68.2	27.09	peak
11490	45.45	V	-3.25	42.2	68.2	26	peak
802.11ax20 5785MHz							
11570	46.3	H	-3.18	43.12	68.2	25.08	peak
11570	46.52	V	-3.18	43.34	68.2	24.86	peak
802.11ax20 5825MHz							
11650	44.84	H	-3.12	41.72	68.2	26.48	peak
11650	46.05	V	-3.12	42.93	68.2	25.27	peak
802.11n40 5190MHz							
10380	46.45	H	-5.35	41.1	68.2	27.1	peak
10380	46.91	V	-5.35	41.56	68.2	26.64	peak
802.11n40 5320MHz							
10460	46.77	H	-5.13	41.64	68.2	26.56	peak
10460	46.23	V	-5.13	41.1	68.2	27.1	peak
802.11n40 5270MHz							
10540	46.09	H	-4.92	41.17	68.2	27.03	peak
10540	46.41	V	-4.92	41.49	68.2	26.71	peak
802.11n40 5310MHz							
10620	47.85	H	-4.7	43.15	68.2	25.05	peak
10620	45.69	V	-4.7	40.99	68.2	27.21	peak
802.11n40 5510MHz							
11020	45.64	H	-3.69	41.95	68.2	26.25	peak
11020	46.9	V	-3.69	43.21	68.2	24.99	peak
802.11n40 5550MHz							



11100	45.24	H	-3.62	41.62	68.2	26.58	peak
11100	46.37	V	-3.62	42.75	68.2	25.45	peak
802.11n40 5670MHz							
11340	45.96	H	-3.4	42.56	68.2	25.64	peak
11340	44.45	V	-3.4	41.05	68.2	27.15	peak
802.11n40 5710MHz							
11420	43.69	H	-3.32	40.37	68.2	27.83	peak
11420	43.67	V	-3.32	40.35	68.2	27.85	peak
802.11n40 5755MHz							
11510	45.46	H	-3.25	42.21	68.2	25.99	peak
11510	45.82	V	-3.25	42.57	68.2	25.63	peak
802.11n40 5795MHz							
11590	45.46	H	-3.16	42.3	68.2	25.9	peak
11590	46.2	V	-3.16	43.04	68.2	25.16	peak
802.11ac40 5190MHz							
10380	45.27	H	-5.35	39.92	68.2	28.28	peak
10380	46.57	V	-5.35	41.22	68.2	26.98	peak
802.11ac40 5320MHz							
10460	46.95	H	-5.13	41.82	68.2	26.38	peak
10460	44.21	V	-5.13	39.08	68.2	29.12	peak
802.11ac40 5270MHz							
10540	44.31	H	-4.92	39.39	68.2	28.81	peak
10540	46.93	V	-4.92	42.01	68.2	26.19	peak
802.11ac40 5310MHz							
10620	44.5	H	-4.7	39.8	68.2	28.4	peak
10620	44.78	V	-4.7	40.08	68.2	28.12	peak
802.11ac40 5510MHz							
11020	45.7	H	-3.69	42.01	68.2	26.19	peak
11020	44.52	V	-3.69	40.83	68.2	27.37	peak
802.11ac40 5550MHz							
11100	43.11	H	-3.62	39.49	68.2	28.71	peak
11100	43.68	V	-3.62	40.06	68.2	28.14	peak
802.11ac40 5670MHz							
11340	43.9	H	-3.4	40.5	68.2	27.7	peak
11340	44.69	V	-3.4	41.29	68.2	26.91	peak
802.11ac40 5710MHz							
11420	42.46	H	-3.32	39.14	68.2	29.06	peak
11420	41.98	V	-3.32	38.66	68.2	29.54	peak
802.11ac40 5755MHz							
11510	44.87	H	-3.25	41.62	68.2	26.58	peak
11510	41.97	V	-3.25	38.72	68.2	29.48	peak
802.11ac40 5795MHz							
11590	42.57	H	-3.16	39.41	68.2	28.79	peak
11590	44.41	V	-3.16	41.25	68.2	26.95	peak



802.11ax40 5190MHz							
10380	43.37	H	-5.35	38.02	68.2	30.18	peak
10380	44.79	V	-5.35	39.44	68.2	28.76	peak
802.11ax40 5320MHz							
10460	45.12	H	-5.13	39.99	68.2	28.21	peak
10460	44.21	V	-5.13	39.08	68.2	29.12	peak
802.11ax40 5270MHz							
10540	45.07	H	-4.92	40.15	68.2	28.05	peak
10540	44.46	V	-4.92	39.54	68.2	28.66	peak
802.11ax40 5310MHz							
10620	45.81	H	-4.7	41.11	68.2	27.09	peak
10620	44.29	V	-4.7	39.59	68.2	28.61	peak
802.11ax40 5510MHz							
11020	44.5	H	-3.69	40.81	68.2	27.39	peak
11020	44.88	V	-3.69	41.19	68.2	27.01	peak
802.11ax40 5550MHz							
11100	43.7	H	-3.62	40.08	68.2	28.12	peak
11100	45.38	V	-3.62	41.76	68.2	26.44	peak
802.11ax40 5670MHz							
11340	44.79	H	-3.4	41.39	68.2	26.81	peak
11340	45.43	V	-3.4	42.03	68.2	26.17	peak
802.11ax40 5710MHz							
11420	42.27	H	-3.32	38.95	68.2	29.25	peak
11420	41.21	V	-3.32	37.89	68.2	30.31	peak
802.11ax40 5755MHz							
11510	45.43	H	-3.25	42.18	68.2	26.02	peak
11510	43.49	V	-3.25	40.24	68.2	27.96	peak
802.11ax40 5795MHz							
11590	43.84	H	-3.16	40.68	68.2	27.52	peak
11590	46.54	V	-3.16	43.38	68.2	24.82	peak
802.11ac80 5210MHz							
10420	46.64	H	-5.23	41.41	68.2	26.79	peak
10420	45.26	V	-5.23	40.03	68.2	28.17	peak
802.11ac80 5290MHz							
10580	46.06	H	-4.82	41.24	68.2	26.96	peak
10580	44.51	V	-4.82	39.69	68.2	28.51	peak
802.11ac80 5530MHz							
11060	45.21	H	-3.66	41.55	68.2	26.65	peak
11060	44.77	V	-3.66	41.11	68.2	27.09	peak
802.11ac80 5610MHz							
11220	45.14	H	-3.5	41.64	68.2	26.56	peak
11220	44.06	V	-3.5	40.56	68.2	27.64	peak
802.11ac80 5690MHz							
11380	42.89	H	-3.37	39.52	68.2	28.68	peak



11380	41.6	V	-3.37	38.23	68.2	29.97	peak
802.11ac80 5775MHz							
11550	42.8	H	-3.21	39.59	68.2	28.61	peak
11550	43.87	V	-3.21	40.66	68.2	27.54	peak
802.11ax80 5210MHz							
10420	38.79	H	-5.23	33.56	68.2	34.64	peak
10420	43.28	V	-5.23	38.05	68.2	30.15	peak
802.11ax80 5290MHz							
10580	45.68	H	-4.82	40.86	68.2	27.34	peak
10580	45.3	V	-4.82	40.48	68.2	27.72	peak
802.11ax80 5530MHz							
11060	45.16	H	-3.66	41.5	68.2	26.7	peak
11060	44.44	V	-3.66	40.78	68.2	27.42	peak
802.11ax80 5610MHz							
11220	45.39	H	-3.5	41.89	68.2	26.31	peak
11220	46.38	V	-3.5	42.88	68.2	25.32	peak
802.11ax80 5690MHz							
11380	43.98	H	-3.37	40.61	68.2	27.59	peak
11380	44.13	V	-3.37	40.76	68.2	27.44	peak
802.11ax80 5775MHz							
11550	44.83	H	-3.21	41.62	68.2	26.58	peak
11550	46.14	V	-3.21	42.93	68.2	25.27	peak

Remarks:

1. Level = Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. If the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

11. Frequencies Stability

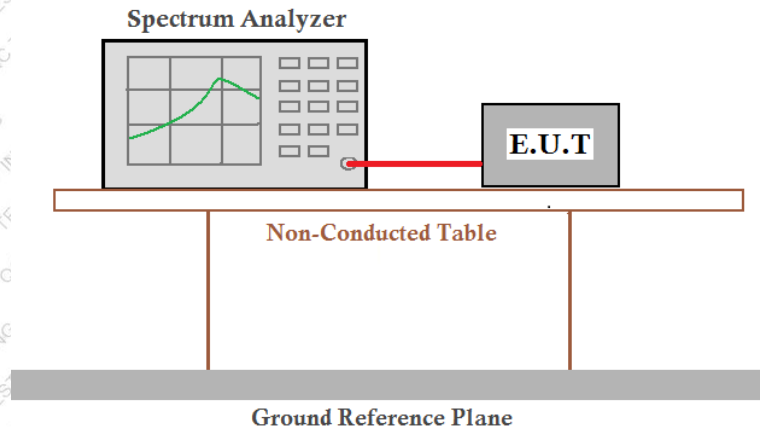
11.1 Applicable Standard

FCC Part15 E Section 15.407(g)

11.2 Limit

It is required that that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

11.3 Test setup



11.4 Test Procedure

1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10kHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is -20°C to +55°C, normal Temperature is +25°C.

Manufacturers of UNII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)



11.5 Test Data

Temperature	21.9 °C	Humidity	50%
ATM Pressure	101.1kPa	Antenna Gain	1.49dBi
Test by	LBi Li	Test result	PASS

Test result as below table

Mode	Frequency (MHz)	Temperature (°C)	Voltage (DC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11ac (VHT20)	5180	25	4.25	5180.0191	5150 to 5250	PASS
			5	5180.0179	5150 to 5250	PASS
			5.75	5179.9936	5150 to 5250	PASS
		-20	5	5179.9751	5150 to 5250	PASS
		-10	5	5180.0258	5150 to 5250	PASS
		0	5	5179.9635	5150 to 5250	PASS
		10	5	5179.9526	5150 to 5250	PASS
		30	5	5180.0167	5150 to 5250	PASS
	5200	25	4.25	5180.0064	5150 to 5250	PASS
			5	5180.0064	5150 to 5250	PASS
			5.75	5180.0064	5150 to 5250	PASS
		-20	5	5200.0132	5150 to 5250	PASS
		-10	5	5199.9936	5150 to 5250	PASS
		0	5	5199.9836	5150 to 5250	PASS
		10	5	5200.0259	5150 to 5250	PASS
		30	5	5199.9607	5150 to 5250	PASS
	5240	25	4.25	5199.9483	5150 to 5250	PASS
			5	5200.022	5150 to 5250	PASS
			5.75	5199.9956	5150 to 5250	PASS
		-20	5	5200.024	5150 to 5250	PASS
		-10	5	5239.9844	5150 to 5250	PASS
		0	5	5239.9839	5150 to 5250	PASS
		10	5	5240.0192	5150 to 5250	PASS
		30	5	5239.9532	5150 to 5250	PASS
	5260	25	4.25	5239.9527	5150 to 5250	PASS
			5	5240.0173	5150 to 5250	PASS
			5.75	5239.999	5150 to 5250	PASS
		-20	5	5240.0129	5150 to 5250	PASS
		-10	5	5239.9865	5150 to 5250	PASS
		0	5	5259.9825	5250 to 5350	PASS
		10	5	5260.0161	5250 to 5350	PASS
		30	5	5259.9585	5250 to 5350	PASS
	5300	25	4.25	5259.9502	5250 to 5350	PASS
			5	5260.0236	5250 to 5350	PASS
			5.75	5259.9969	5250 to 5350	PASS
		-20	5	5260.0141	5250 to 5350	PASS
		-10	5	5259.986	5250 to 5350	PASS
		0	5	5259.9789	5250 to 5350	PASS
		10	5	5300.0242	5250 to 5350	PASS
		30	5	5299.9604	5250 to 5350	PASS



QC TESTING	5320	40	5	5300.0259	5250 to 5350	PASS
		25	4.25	5319.9531	5250 to 5350	PASS
			5	5319.9497	5250 to 5350	PASS
			5.75	5320.0235	5250 to 5350	PASS
		-20	5	5320.0043	5250 to 5350	PASS
		-10	5	5320.0209	5250 to 5350	PASS
		0	5	5319.9927	5250 to 5350	PASS
		10	5	5319.983	5250 to 5350	PASS
		30	5	5320.0255	5250 to 5350	PASS
	40	5	5319.9546	5250 to 5350	PASS	
	5500	25	4.25	5499.9451	5470 to 5725	PASS
			5	5500.02	5470 to 5725	PASS
			5.75	5500.0048	5470 to 5725	PASS
		-20	5	5500.022	5470 to 5725	PASS
		-10	5	5499.9918	5470 to 5725	PASS
		0	5	5499.9812	5470 to 5725	PASS
		10	5	5500.0262	5470 to 5725	PASS
		30	5	5499.9589	5470 to 5725	PASS
		40	5	5499.9468	5470 to 5725	PASS
	5580	25	4.25	5580.0272	5470 to 5725	PASS
			5	5580.0075	5470 to 5725	PASS
			5.75	5580.0264	5470 to 5725	PASS
		-20	5	5579.9847	5470 to 5725	PASS
		-10	5	5579.9788	5470 to 5725	PASS
		0	5	5580.022	5470 to 5725	PASS
		10	5	5579.9501	5470 to 5725	PASS
		30	5	5579.9478	5470 to 5725	PASS
		40	5	5580.0242	5470 to 5725	PASS
	5700	25	4.25	5699.9975	5470 to 5725	PASS
			5	5700.0225	5470 to 5725	PASS
			5.75	5699.9915	5470 to 5725	PASS
		-20	5	5699.9753	5470 to 5725	PASS
		-10	5	5700.0252	5470 to 5725	PASS
		0	5	5699.9586	5470 to 5725	PASS
		10	5	5699.9444	5470 to 5725	PASS
		30	5	5700.0194	5470 to 5725	PASS
		40	5	5700.0021	5470 to 5725	PASS
	5745	25	4.25	5745.0257	5725 to 5850	PASS
			5	5744.9866	5725 to 5850	PASS
			5.75	5744.9746	5725 to 5850	PASS
		-20	5	5745.0218	5725 to 5850	PASS
		-10	5	5744.9544	5725 to 5850	PASS
		0	5	5744.9458	5725 to 5850	PASS
		10	5	5745.0172	5725 to 5850	PASS
		30	5	5745.0053	5725 to 5850	PASS
		40	5	5745.0197	5725 to 5850	PASS
	5785	25	4.25	5784.9861	5725 to 5850	PASS
			5	5784.9812	5725 to 5850	PASS
			5.75	5785.0289	5725 to 5850	PASS
		-20	5	5784.9497	5725 to 5850	PASS
		-10	5	5784.9479	5725 to 5850	PASS
		0	5	5785.0272	5725 to 5850	PASS
		10	5	5785.0084	5725 to 5850	PASS
		30	5	5785.0281	5725 to 5850	PASS
		40	5	5784.9924	5725 to 5850	PASS
	5825	25	4.25	5824.973	5725 to 5850	PASS



802.11ac (VHT40)			5	5825.0221	5725 to 5850	PASS
			5.75	5824.9498	5725 to 5850	PASS
		-20	5	5824.9434	5725 to 5850	PASS
		-10	5	5825.0225	5725 to 5850	PASS
		0	5	5825.0054	5725 to 5850	PASS
		10	5	5825.0214	5725 to 5850	PASS
		30	5	5824.9928	5725 to 5850	PASS
		40	5	5824.9734	5725 to 5850	PASS
	5190	25	4.25	5190.0257	5150 to 5250	PASS
			5	5189.9549	5150 to 5250	PASS
			5.75	5189.9482	5150 to 5250	PASS
		-20	5	5190.018	5150 to 5250	PASS
		-10	5	5189.9998	5150 to 5250	PASS
		0	5	5190.0155	5150 to 5250	PASS
		10	5	5189.99	5150 to 5250	PASS
		30	5	5189.9755	5150 to 5250	PASS
		40	5	5190.0253	5150 to 5250	PASS
	5230	25	4.25	5229.9609	5150 to 5250	PASS
			5	5229.9527	5150 to 5250	PASS
			5.75	5230.0205	5150 to 5250	PASS
		-20	5	5229.9973	5150 to 5250	PASS
		-10	5	5230.015	5150 to 5250	PASS
		0	5	5229.9872	5150 to 5250	PASS
		10	5	5229.9741	5150 to 5250	PASS
		30	5	5230.0167	5150 to 5250	PASS
		40	5	5229.96	5150 to 5250	PASS
	5270	25	4.25	5269.9523	5250 to 5350	PASS
			5	5270.0218	5250 to 5350	PASS
			5.75	5270.0004	5250 to 5350	PASS
		-20	5	5270.0189	5250 to 5350	PASS
		-10	5	5269.9898	5250 to 5350	PASS
		0	5	5269.9819	5250 to 5350	PASS
		10	5	5270.0194	5250 to 5350	PASS
		30	5	5269.9531	5250 to 5350	PASS
		40	5	5269.9481	5250 to 5350	PASS
	5310	25	4.25	5310.0238	5250 to 5350	PASS
			5	5309.998	5250 to 5350	PASS
			5.75	5310.022	5250 to 5350	PASS
		-20	5	5309.994	5250 to 5350	PASS
		-10	5	5309.975	5250 to 5350	PASS
		0	5	5310.0162	5250 to 5350	PASS
		10	5	5309.9607	5250 to 5350	PASS
		30	5	5309.9515	5250 to 5350	PASS
		40	5	5310.0209	5250 to 5350	PASS
	5510	25	4.25	5510.0047	5470 to 5725	PASS
			5	5510.0152	5470 to 5725	PASS
			5.75	5509.9878	5470 to 5725	PASS
		-20	5	5509.9746	5470 to 5725	PASS
		-10	5	5510.0228	5470 to 5725	PASS
		0	5	5509.9559	5470 to 5725	PASS
		10	5	5509.9493	5470 to 5725	PASS
		30	5	5510.0262	5470 to 5725	PASS
		40	5	5509.9982	5470 to 5725	PASS
	5550	25	4.25	5550.0133	5470 to 5725	PASS
			5	5549.9896	5470 to 5725	PASS
			5.75	5549.9767	5470 to 5725	PASS



		-20	5	5550.0176	5470 to 5725	PASS
		-10	5	5549.9598	5470 to 5725	PASS
		0	5	5549.9475	5470 to 5725	PASS
		10	5	5550.0229	5470 to 5725	PASS
		30	5	5550.011	5470 to 5725	PASS
		40	5	5550.0184	5470 to 5725	PASS
	5670	25	4.25	5669.9917	5470 to 5725	PASS
			5	5669.9764	5470 to 5725	PASS
			5.75	5670.0258	5470 to 5725	PASS
		-20	5	5669.954	5470 to 5725	PASS
		-10	5	5669.9434	5470 to 5725	PASS
		0	5	5670.0241	5470 to 5725	PASS
		10	5	5669.9972	5470 to 5725	PASS
		30	5	5670.0225	5470 to 5725	PASS
		40	5	5669.9918	5470 to 5725	PASS
	5755	25	4.25	5754.9751	5725 to 5850	PASS
			5	5755.0235	5725 to 5850	PASS
			5.75	5754.954	5725 to 5850	PASS
		-20	5	5754.9445	5725 to 5850	PASS
		-10	5	5755.0268	5725 to 5850	PASS
		0	5	5755.0011	5725 to 5850	PASS
		10	5	5755.0125	5725 to 5850	PASS
		30	5	5754.9865	5725 to 5850	PASS
		40	5	5754.9753	5725 to 5850	PASS
	5795	25	4.25	5795.0289	5725 to 5850	PASS
			5	5794.9485	5725 to 5850	PASS
			5.75	5794.9429	5725 to 5850	PASS
		-20	5	5795.0275	5725 to 5850	PASS
		-10	5	5795.0109	5725 to 5850	PASS
		0	5	5795.0285	5725 to 5850	PASS
		10	5	5794.9867	5725 to 5850	PASS
		30	5	5794.9795	5725 to 5850	PASS
		40	5	5795.0289	5725 to 5850	PASS
	5710	25	4.25	5709.9492	5725 to 5850	PASS
			5	5709.9466	5725 to 5850	PASS
			5.75	5710.0251	5725 to 5850	PASS
		-20	5	5710.0004	5725 to 5850	PASS
		-10	5	5710.0135	5725 to 5850	PASS
		0	5	5709.9849	5725 to 5850	PASS
		10	5	5709.9765	5725 to 5850	PASS
		30	5	5710.0213	5725 to 5850	PASS
		40	5	5709.9525	5725 to 5850	PASS
802.11ac (VHT80)	5210	25	4.25	5209.9502	5150 to 5250	PASS
			5	5210.0221	5150 to 5250	PASS
			5.75	5210.0093	5150 to 5250	PASS
		-20	5	5210.0131	5150 to 5250	PASS
		-10	5	5209.9944	5150 to 5250	PASS
		0	5	5209.9767	5150 to 5250	PASS
		10	5	5210.0245	5150 to 5250	PASS
		30	5	5209.9591	5150 to 5250	PASS
		40	5	5209.9523	5150 to 5250	PASS
	5290	25	4.25	5290.0206	5250 to 5350	PASS
			5	5289.9953	5250 to 5350	PASS
			5.75	5290.0219	5250 to 5350	PASS
		-20	5	5289.9906	5250 to 5350	PASS
		-10	5	5289.9812	5250 to 5350	PASS



		0	5	5290.0234	5250 to 5350	PASS
		10	5	5289.9557	5250 to 5350	PASS
		30	5	5289.9503	5250 to 5350	PASS
		40	5	5290.0224	5250 to 5350	PASS
	5530	25	4.25	5530.0001	5470 to 5725	PASS
			5	5530.0182	5470 to 5725	PASS
			5.75	5529.9847	5470 to 5725	PASS
		-20	5	5529.9786	5470 to 5725	PASS
		-10	5	5530.0179	5470 to 5725	PASS
		0	5	5529.9565	5470 to 5725	PASS
		10	5	5529.9498	5470 to 5725	PASS
		30	5	5530.0266	5470 to 5725	PASS
		40	5	5530.0037	5470 to 5725	PASS
	5775	25	4.25	5775.0218	5725 to 5850	PASS
			5	5774.9856	5725 to 5850	PASS
			5.75	5774.9762	5725 to 5850	PASS
		-20	5	5775.0222	5725 to 5850	PASS
		-10	5	5774.9539	5725 to 5850	PASS
		0	5	5774.9424	5725 to 5850	PASS
		10	5	5775.0182	5725 to 5850	PASS
		30	5	5775.0042	5725 to 5850	PASS
		40	5	5775.0236	5725 to 5850	PASS
	5690	25	4.25	5689.99	5725 to 5850	PASS
			5	5689.9721	5725 to 5850	PASS
			5.75	5690.0217	5725 to 5850	PASS
		-20	5	5689.956	5725 to 5850	PASS
		-10	5	5689.9468	5725 to 5850	PASS
		0	5	5690.0184	5725 to 5850	PASS
		10	5	5689.9991	5725 to 5850	PASS
		30	5	5690.0224	5725 to 5850	PASS
		40	5	5689.9941	5725 to 5850	PASS

12. Dynamic Frequency Selection (DFS)

Table 4 below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

Table 4: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

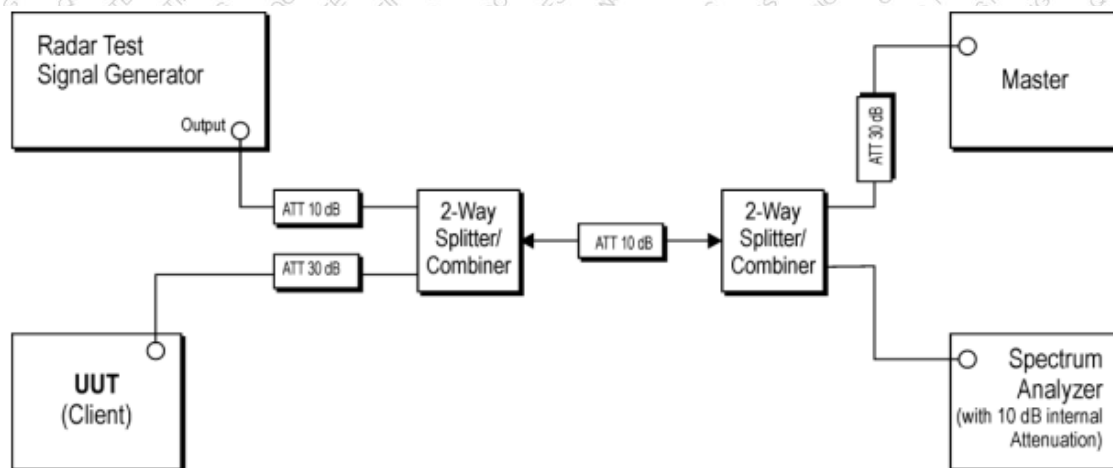
Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Test Procedure

The FCC KDB 905462 D02 v02 describes a radiated test setup and a conducted test setup. A conducted test setup was used for this testing. Figure 1 shows the typical test setup. One channel selected between 5260 and 5350 MHz is chosen for the testing.

Figure 1. Test Setup for DFS



Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period.

Block Diagram of test setup test procedure.

- (1) The Radar Pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately 62dBm at the antenna of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.



- (4) The Client Device (EUT) is set up per the diagram in Figure 1 and communications between the Master device and the Client is established.
- (5) Iperf software is used to properly load the test channel.
- (6) The real time spectrum analyzer is set to record a 16sec window to any transmissions occurring up to and after 10sec.
- (7) The system is again setup and the monitoring time is shortened in order to capture the Channel Closing Transmission Time. This time is measured to ensure that the Client ceases transmission within 200ms and the aggregate of emissions occurring after 200ms up to 10 sec do not exceed 60ms. (Note: the channel may be different since the Master and Client have changed channels due to the detection of e initial radar pulse.)
- (8) After the initial radar burst the channel is monitored for 30 minutes to ensure no transmissions or beacons occur. A second monitoring setup is used to verify that the Master and Client have both moved to different channels.

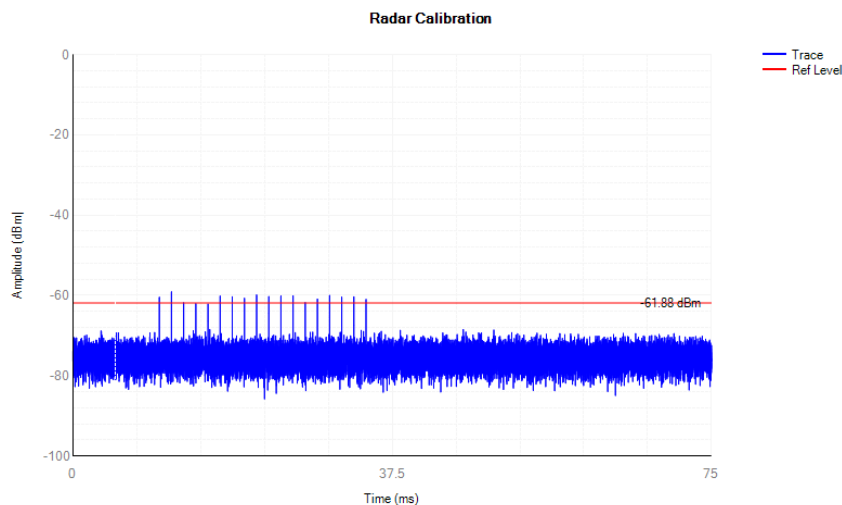
Test Result

Clause	Test Parameter	Verdict
15.407	DFS Detection Threshold	Not Applicable
15.407	Channel Availability Check time	Not Applicable
15.407	Channel Move time	Pass
15.407	Channel Closing Transmission time	Pass
15.407	Non-occupancy Period	Not Applicable
15.407	Uniform Spreading	Not Applicable
15.407	UNII Detection Bandwidth	Not Applicable

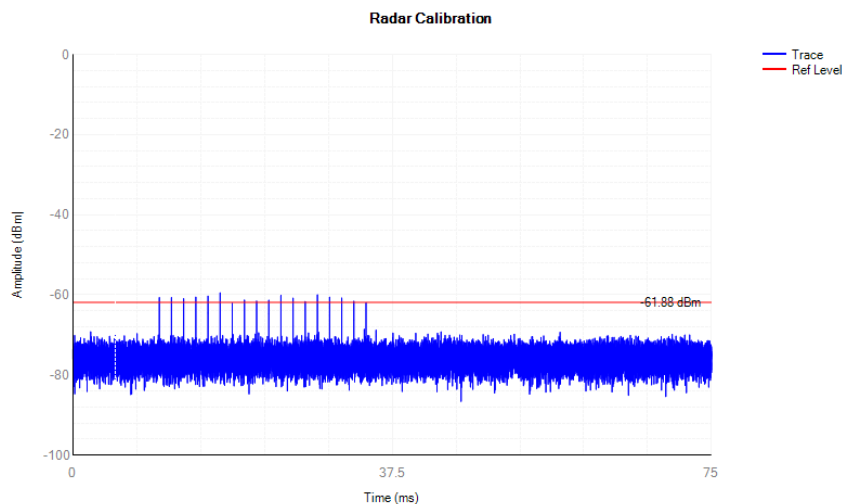
Test Mode	Channel	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ax80	5290	0.0381	10	0.0052	0.26	0	0.06	PASS
	5530	0.3637	10	0.088	0.26	0.0372	0.06	PASS



ax80 5290MHz DFS_FCC_T0



ax80 5530MHz DFS_FCC_T0

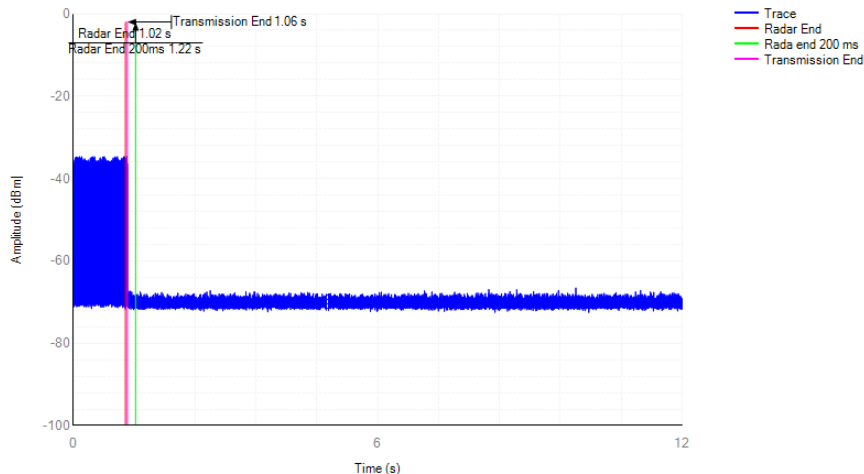




ax80 5290MHz Shutdown

Radar signal:	DPS_FCC_TO	5290.00 MHz	-61.88 dBm	Channel Move Time	0.036 s	Max	10.00 s
Sweep time	12.00 s			Total CCTT	0.005 s	Max	0.26 s
Radar on time	1.00 s	Threshold: -60.00 dBm	Calculate	CCTT after 200 ms	0.000 s	Max	0.06 s

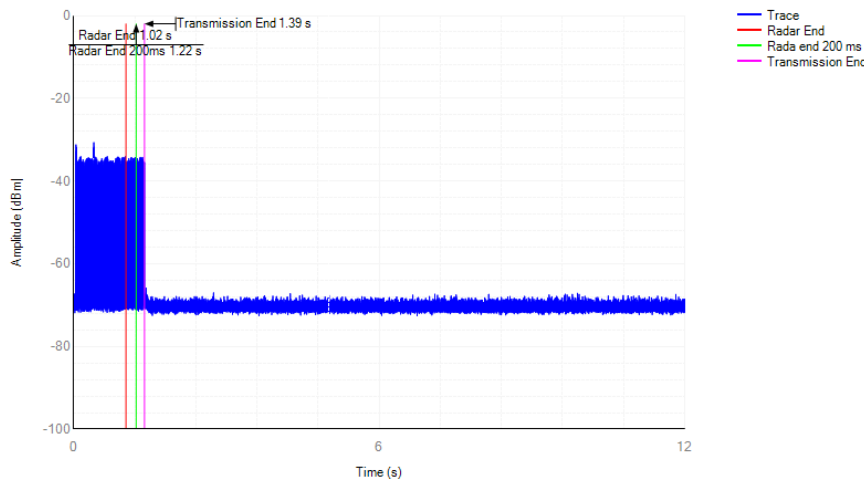
Channel Shutdown



ax80 5530MHz Shutdown

Radar signal:	DPS_FCC_TO	5530.00 MHz	-61.88 dBm	Channel Move Time	0.364 s	Max	10.00 s
Sweep time	12.00 s			Total CCTT	0.068 s	Max	0.26 s
Radar on time	1.00 s	Threshold: -60.00 dBm	Calculate	CCTT after 200 ms	0.037 s	Max	0.06 s

Channel Shutdown



----- THE END OF TEST REPORT -----