

9.3 Maximum conducted output power

Test Method

According to KDB789033 D02, 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.

(1) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

The EUT is configured to transmit continuously or to transmit with a constant duty cycle. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(2) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II.B.

(3) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(4) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Note:

Maximum Conducted Output Power = Conducted Output Power + Correction Factor

Test result as below table
IEEE 802.11a modulation Test Result

Band	Channel	Frequency (MHz)	Conducted Output Power(dBm)	Power Limit (dBm)
5.2G Band	Low	5180	13.40	24.00
	Middle	5200	13.60	24.00
	High	5240	13.30	24.00
5.2G Band	Low	5260	13.00	24.00
	Middle	5280	13.20	24.00
	High	5320	13.80	24.00
5.5G Band	Low	5500	13.40	24.00
	Middle	5580	12.50	24.00
	High	5700	12.80	24.00
	High	5720	13.10	24.00
5.8G Band	Low	5745	12.80	30.00
	Middle	5785	12.95	30.00
	High	5825	12.42	30.00

IEEE 802.11n HT20 modulation Test Result

Band	Channel	Frequency (MHz)	Conducted Output Power(dBm)	Power Limit (dBm)
5.2G Band	Low	5180	13.30	24.00
	Middle	5200	13.60	24.00
	High	5240	13.30	24.00
5.2G Band	Low	5260	12.90	24.00
	Middle	5280	13.20	24.00
	High	5320	13.70	24.00
5.5G Band	Low	5500	12.50	24.00
	Middle	5580	12.40	24.00
	High	5700	12.50	24.00
	High	5720	12.90	24.00
5.8G Band	Low	5745	12.60	30.00
	Middle	5785	12.16	30.00
	High	5825	12.07	30.00



IEEE 802.11n HT40 modulation Test Result

Band	Channel	Frequency (MHz)	Conducted Output Power(dBm)	Power Limit (dBm)
5.2G Band	Low	5190	12.40	24.00
	High	5230	12.70	24.00
5.2G Band	Low	5270	12.10	24.00
	High	5310	12.70	24.00
5.5G Band	Low	5510	12.80	24.00
	Middle	5550	13.20	24.00
	High	5670	12.60	24.00
	High	5710	12.50	24.00
5.8G Band	Low	5755	12.45	30.00
	High	5795	12.48	30.00

9.4 Maximum power spectral density

Test Method

According to KDB789033 D02

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.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the Masterappropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and Masterply it up to, but not including, the step labeled, "Compute power...." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
 2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
 3. Make the following adjustments to the peak value of the spectrum, if Masterlicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
 4. The result is the Maximum PSD over 1 MHz reference bandwidth.
 5. For devices operating in the bands 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725–5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures Masterply:
 - a) Set $RBW \geq 1/T$, where T is defined in II.B.I.a).
 - b) Set $VBW \geq 3$ RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz}/RBW)$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log(1 \text{ MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
- Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since RBW=100 kHz is available on nearly all spectrum analyzers.

Limit:

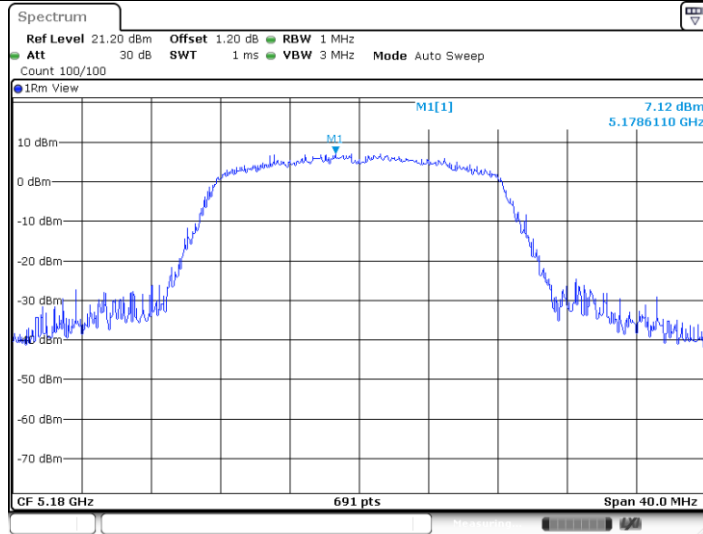
The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band and 30dBm for the 5.8GHz Band in any 1 megahertz band.



Test Result

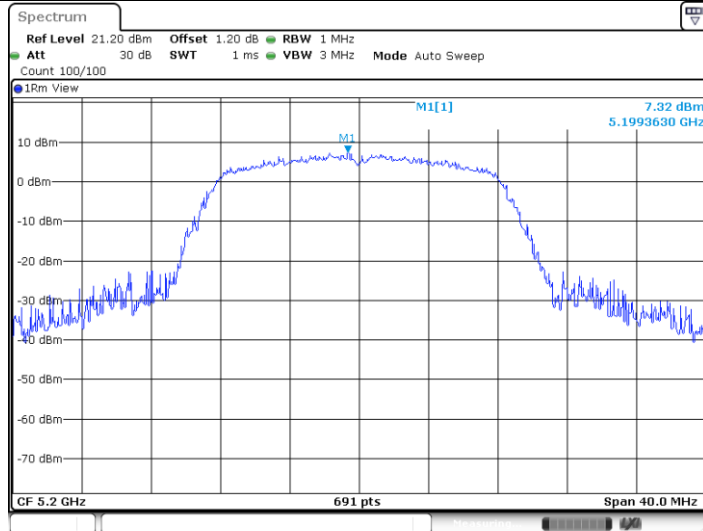
TestMode	Antenna	Channel(MHz)	Result(dBm)	Limit(dBm)	Verdict
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		5200	7.32	<=11	PASS
		5240	7.63	<=11	PASS
		5260	7.71	<=11	PASS
		5280	7.15	<=11	PASS
		5320	7.15	<=11	PASS
		5500	7.52	<=11	PASS
		5580	7.04	<=11	PASS
		5700	6.8	<=11	PASS
		5720_UNII-2C	6.14	<=11	PASS
		5720_UNII-3	2.05	<=11	PASS
		5745	4.76	<=30	PASS
		5785	5.42	<=30	PASS
		5825	5.05	<=30	PASS
11N20SISO	Ant1	5180	6.85	<=11	PASS
		5200	6.77	<=11	PASS
		5240	7.04	<=11	PASS
		5260	6.81	<=11	PASS
		5280	7.19	<=11	PASS
		5320	6.94	<=11	PASS
		5500	6.77	<=11	PASS
		5580	6.45	<=11	PASS
		5700	5.05	<=11	PASS
		5720_UNII-2C	5.02	<=11	PASS
		5720_UNII-3	1.98	<=11	PASS
		5745	3.64	<=30	PASS
		5785	3.76	<=30	PASS
		5825	3.57	<=30	PASS
11N40SISO	Ant1	5190	3.43	<=11	PASS
		5230	2.53	<=11	PASS
		5270	2.41	<=11	PASS
		5310	2.77	<=11	PASS
		5510	2.78	<=11	PASS
		5550	2.88	<=11	PASS
		5670	1.99	<=11	PASS
		5710_UNII-2C	2.01	<=11	PASS
		5710_UNII-3	-4.24	<=11	PASS
		5755	-0.05	<=30	PASS
		5795	-0.1	<=30	PASS

11A_Ant1_5180



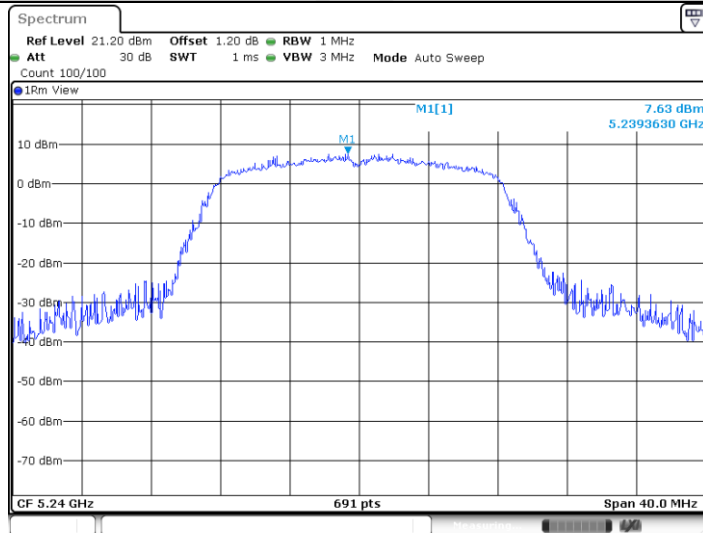
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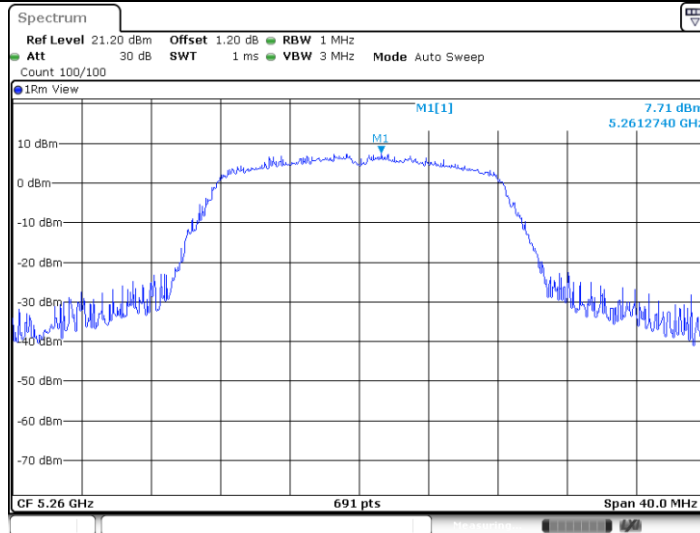
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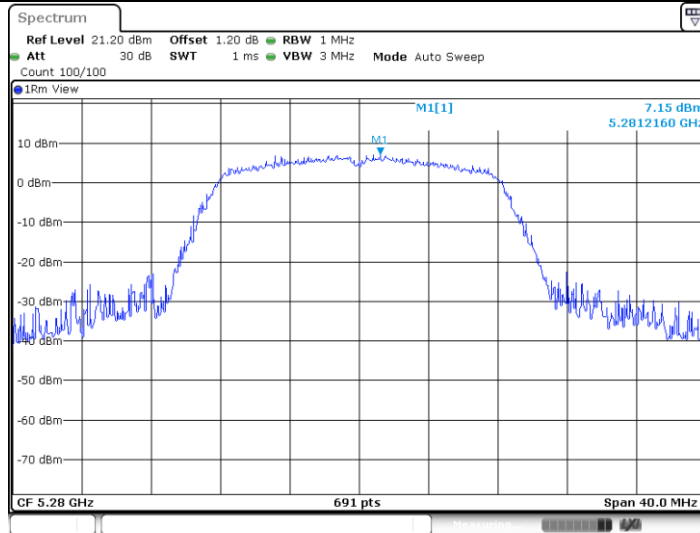
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11A_Ant1_5260



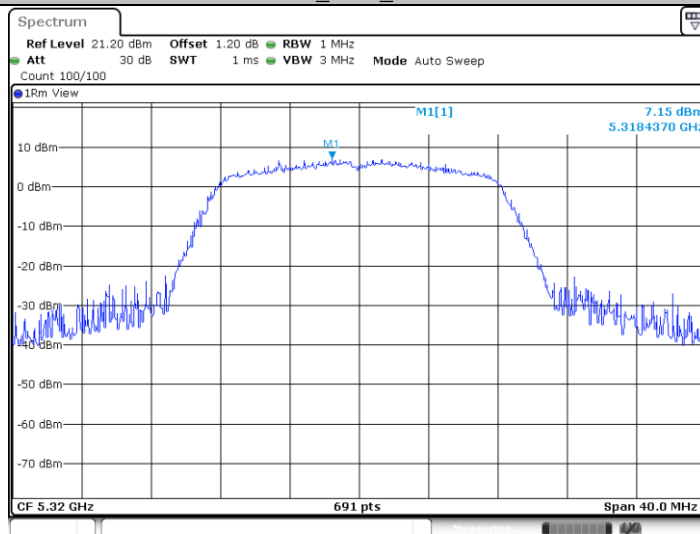
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11A_Ant1_5280



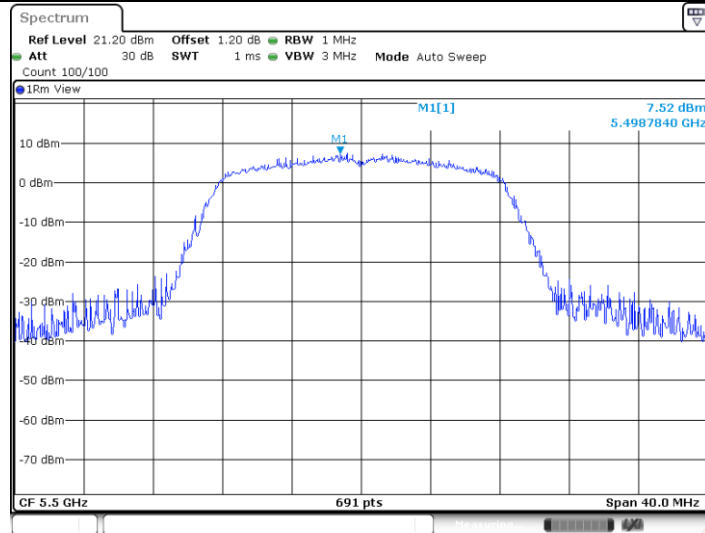
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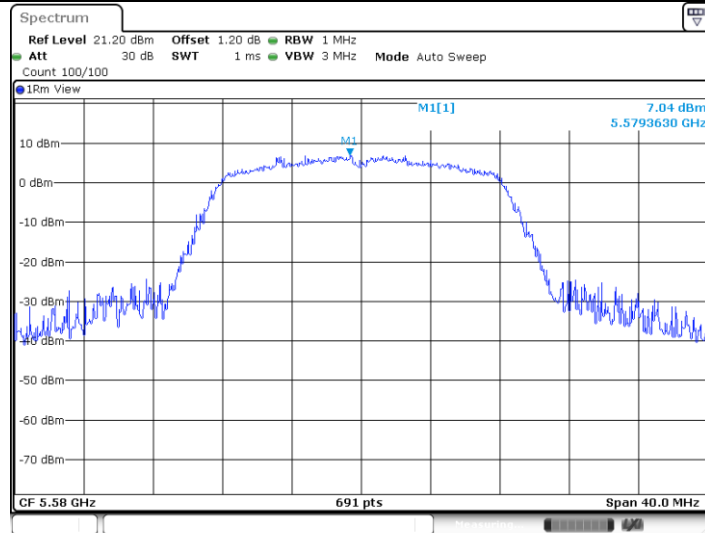
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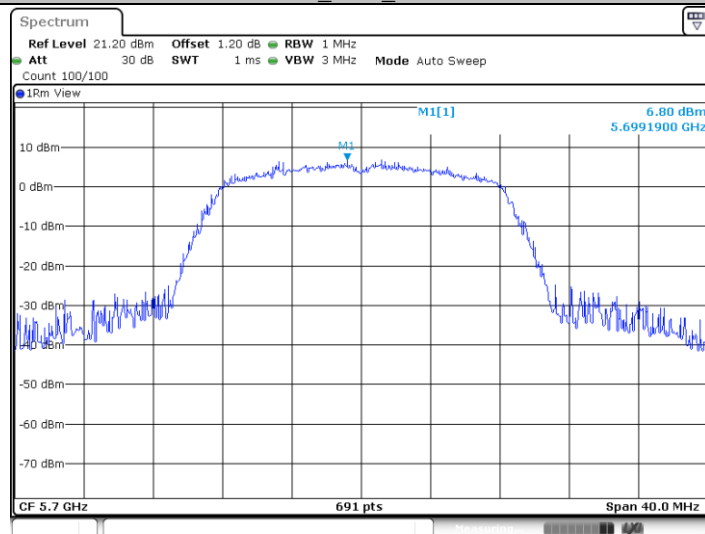
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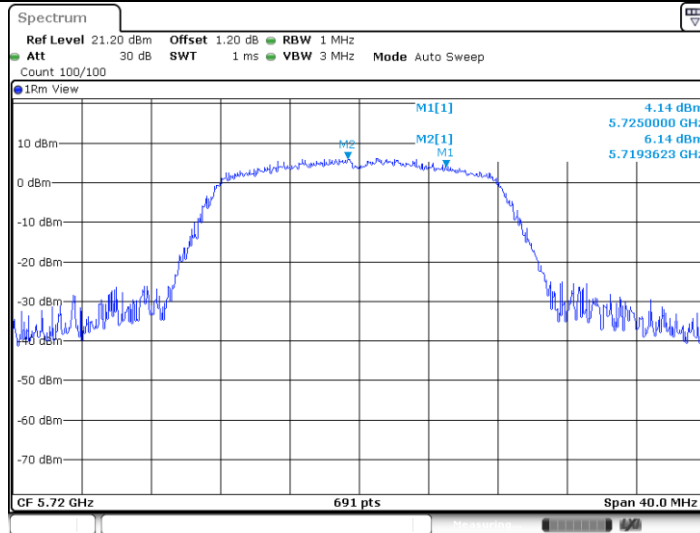
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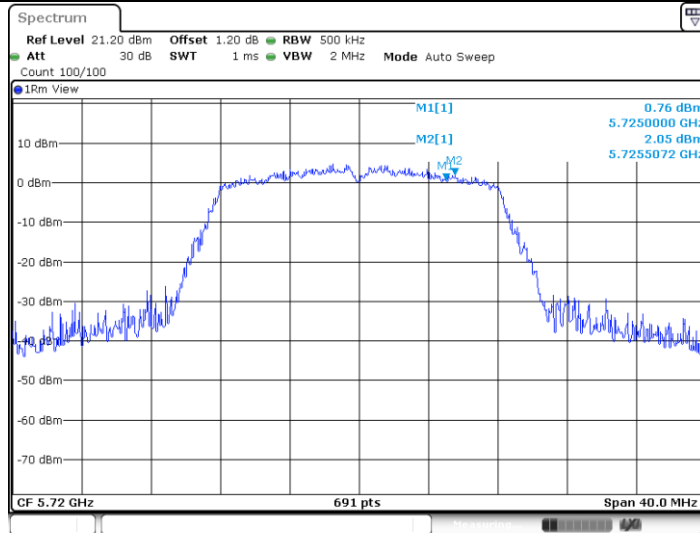
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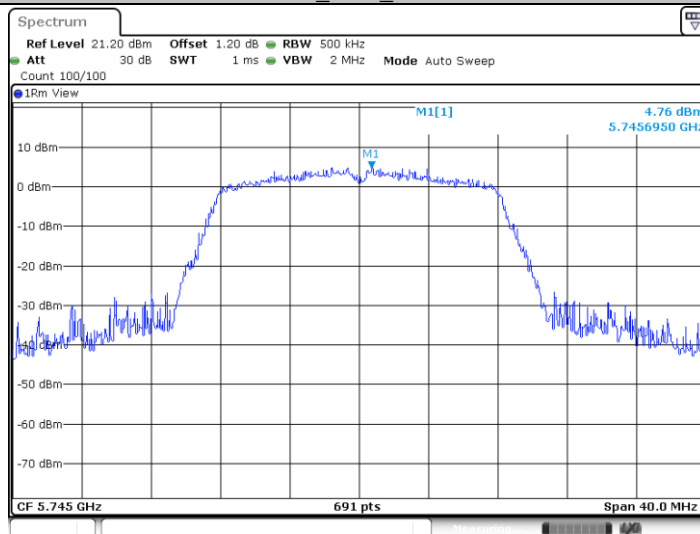
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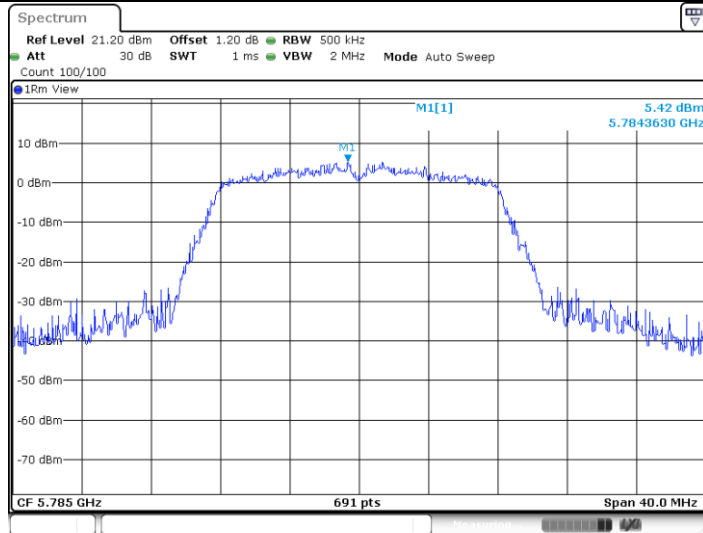
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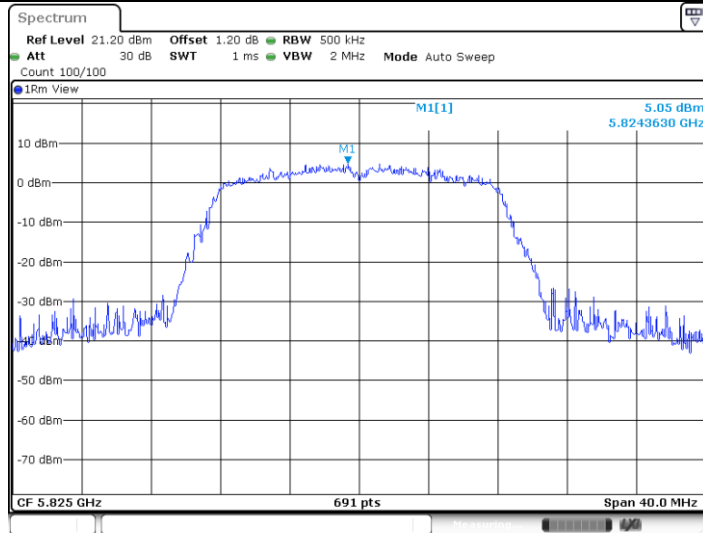
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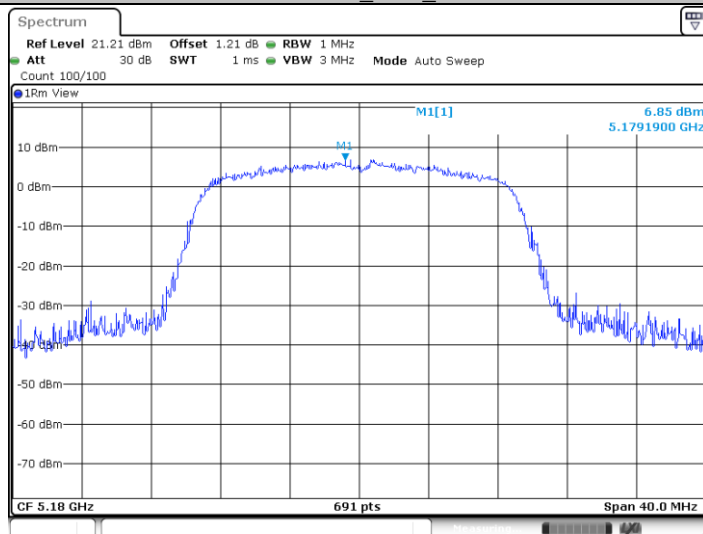
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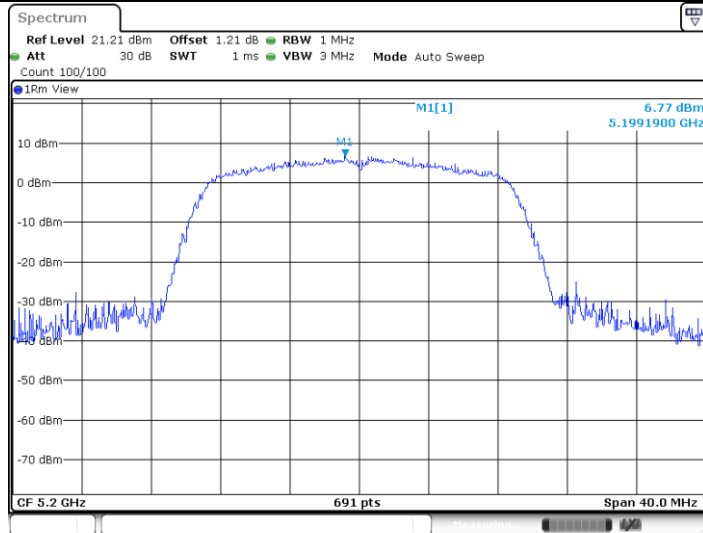
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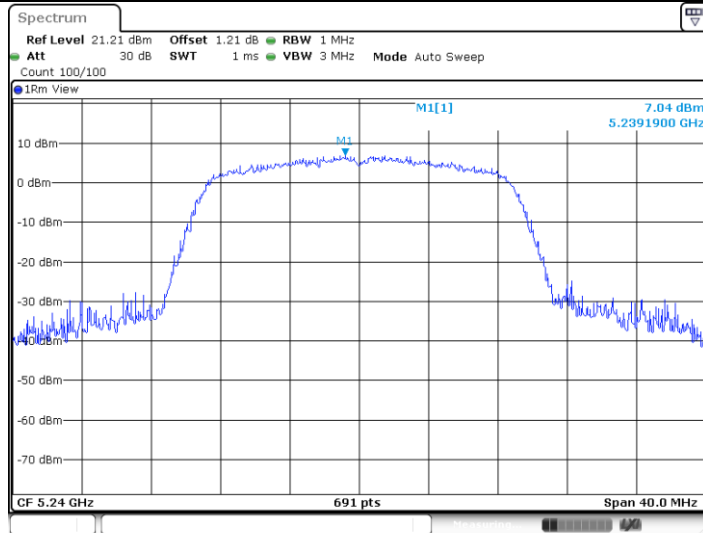
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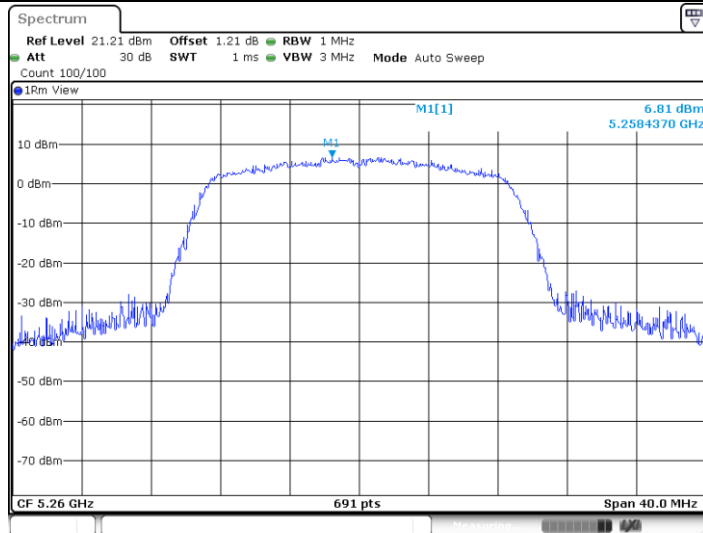
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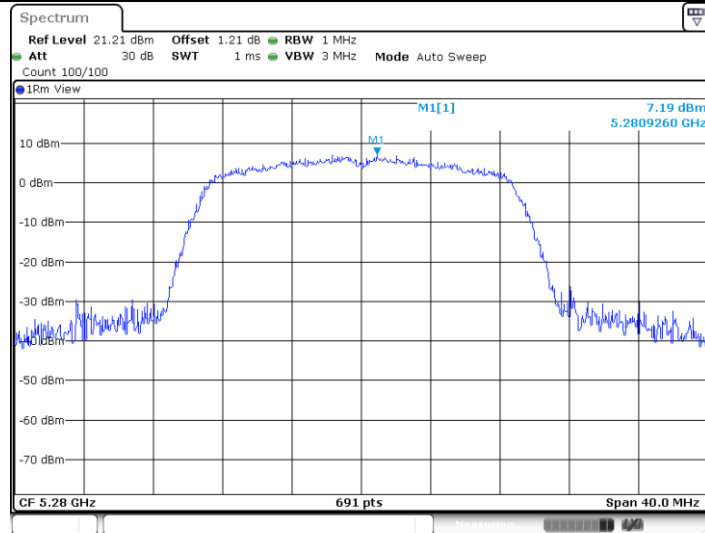
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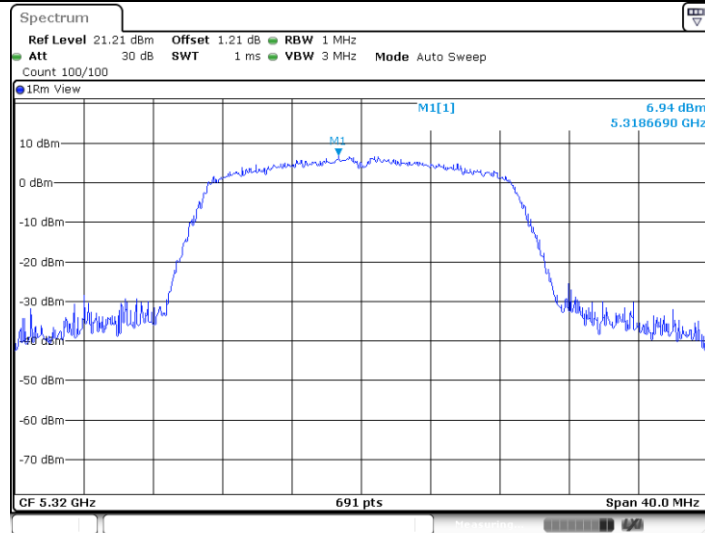
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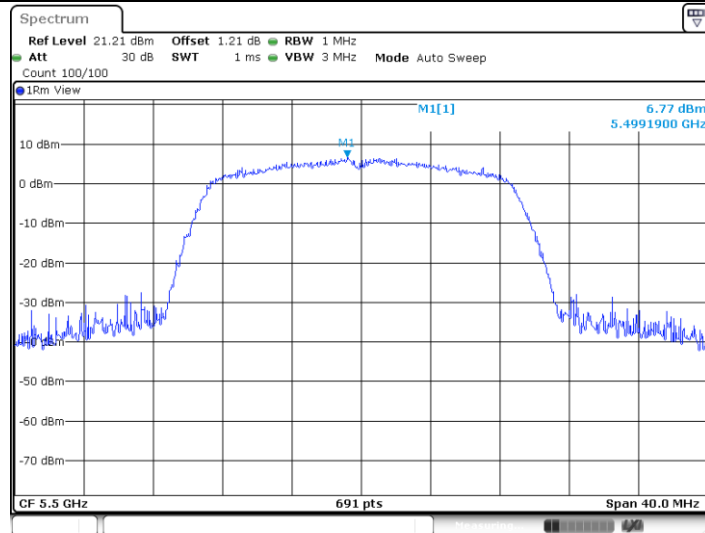
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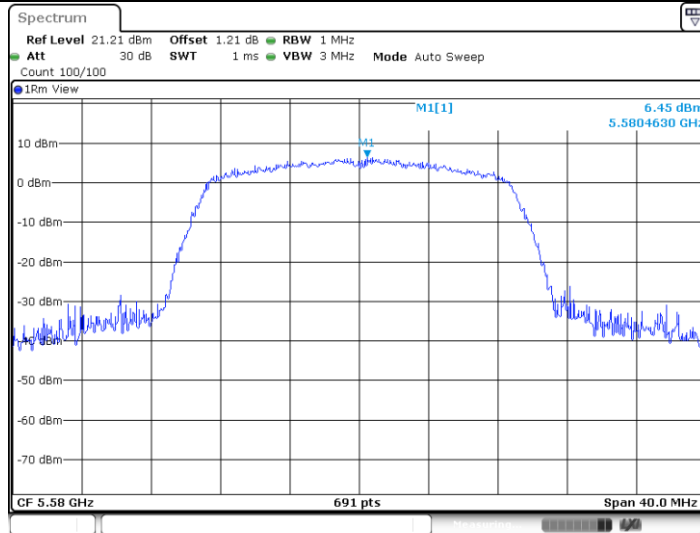
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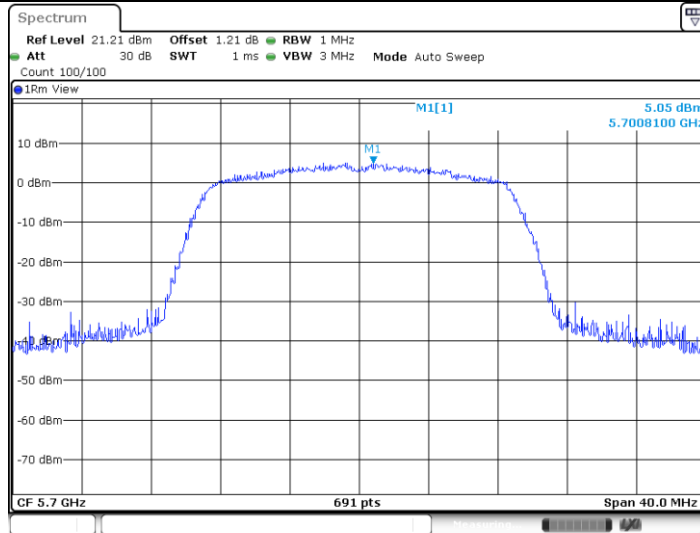
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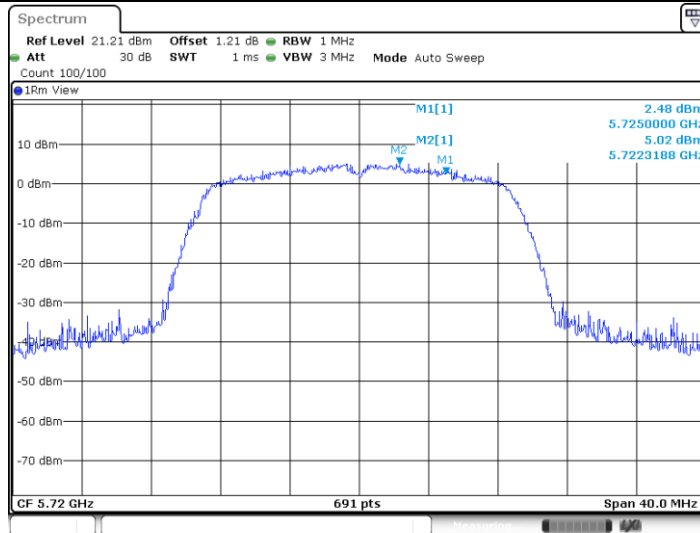
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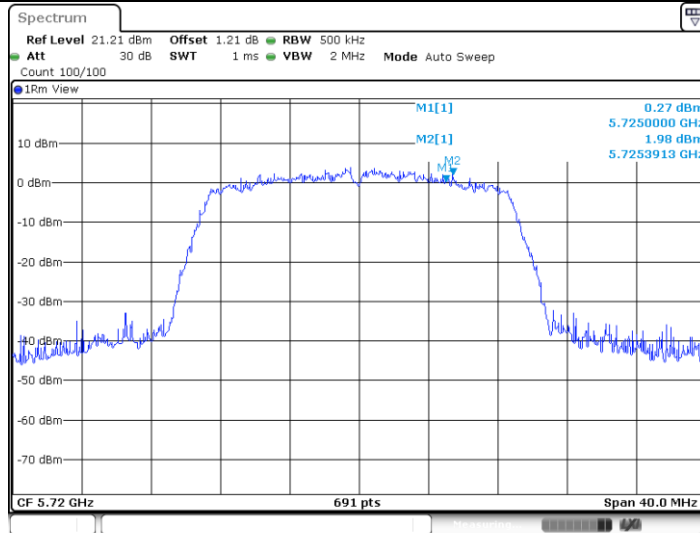
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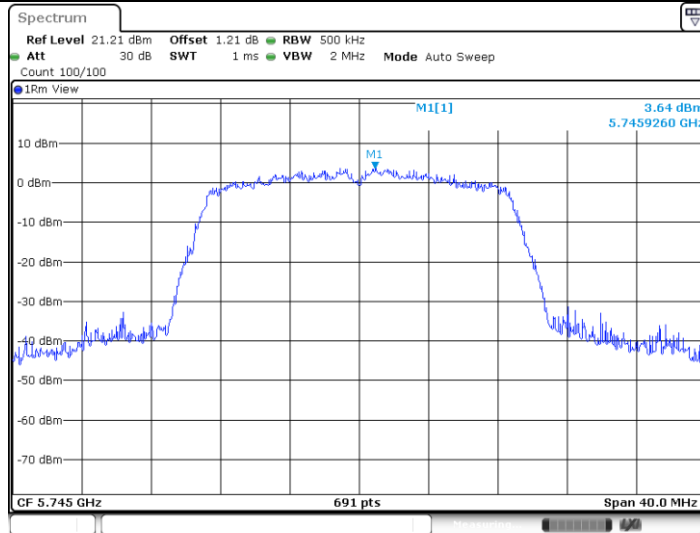
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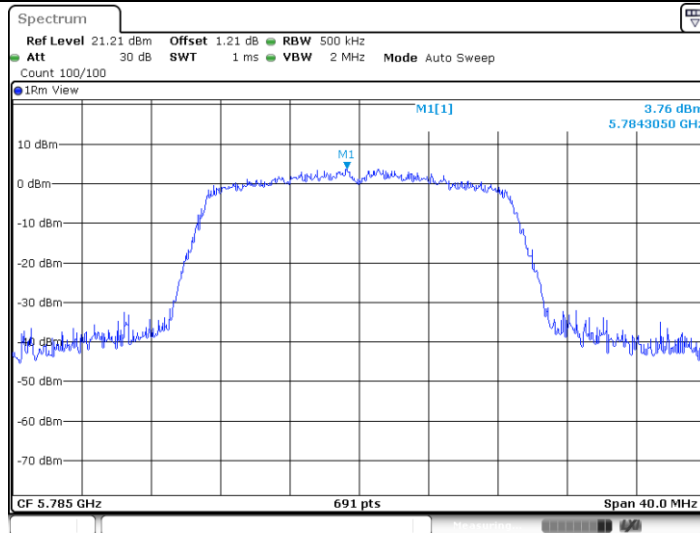
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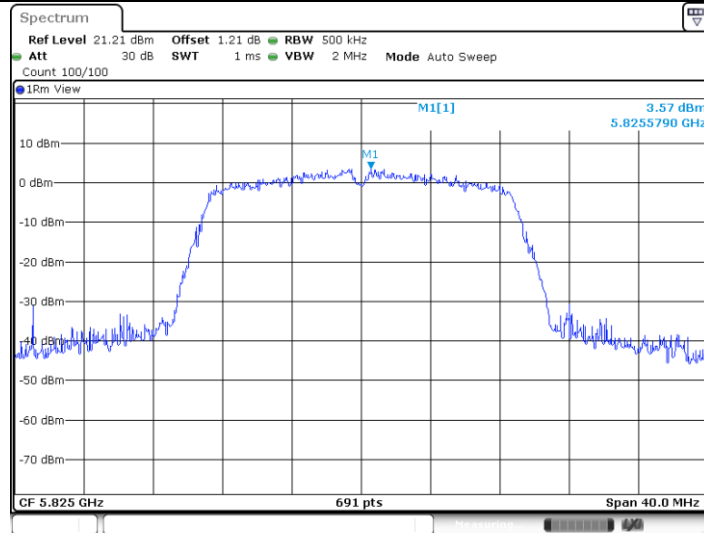
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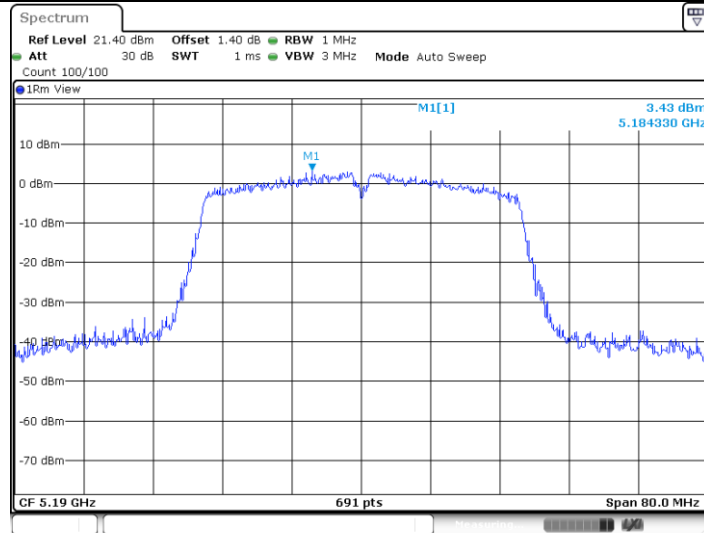
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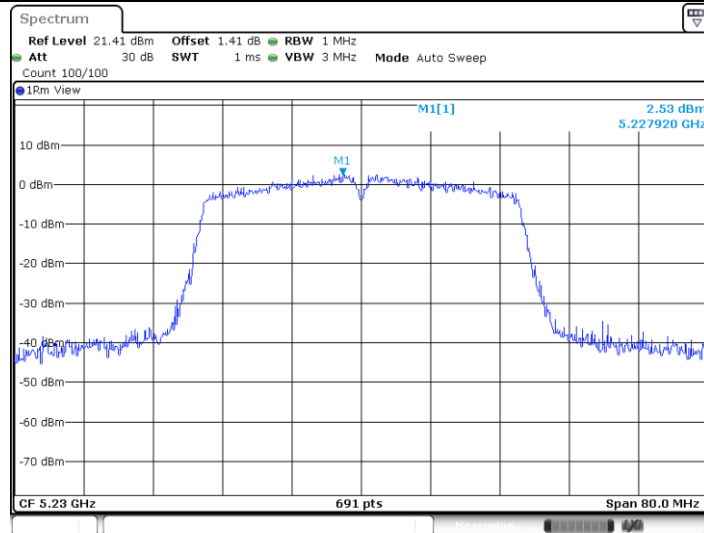
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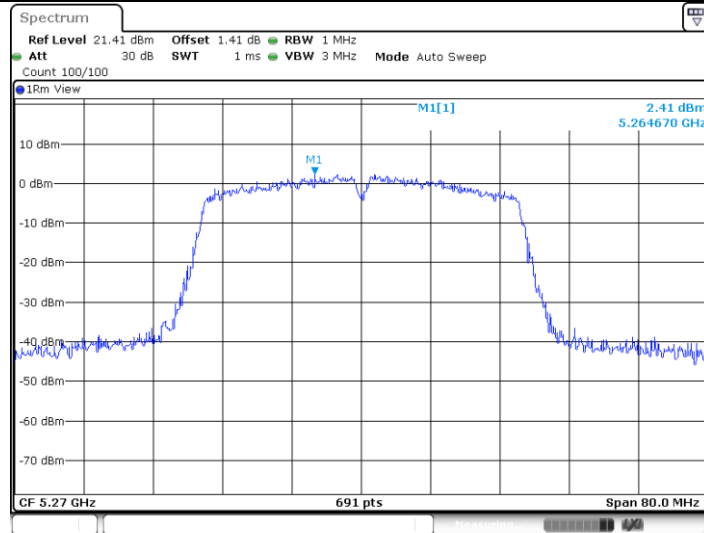
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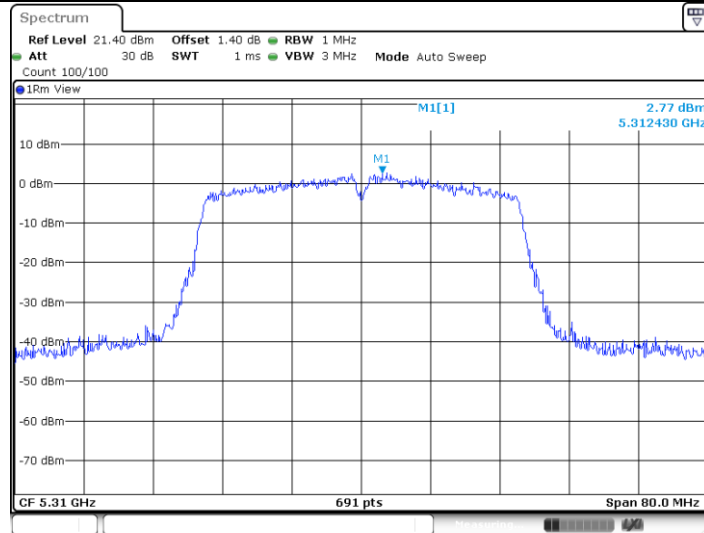
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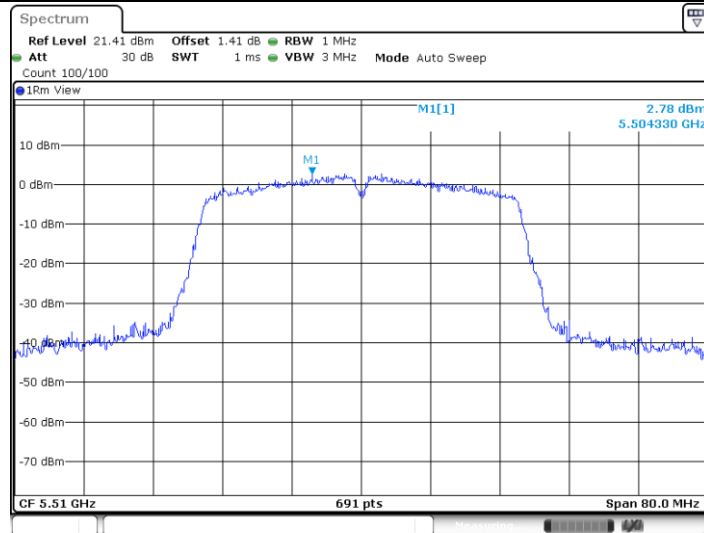
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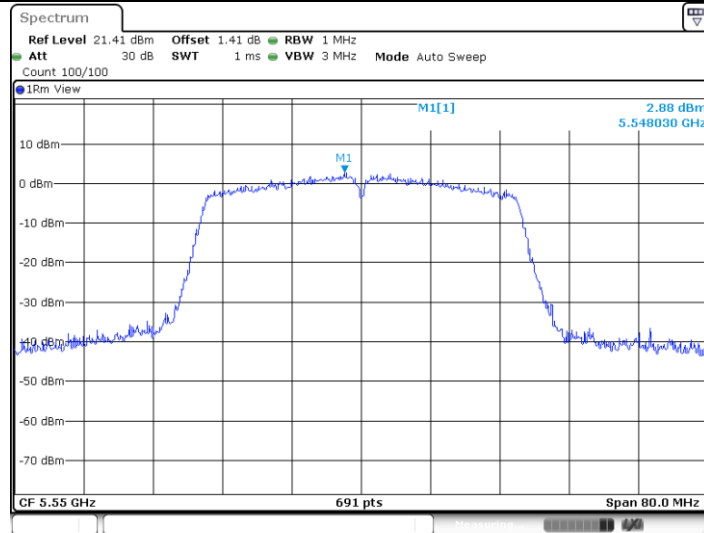
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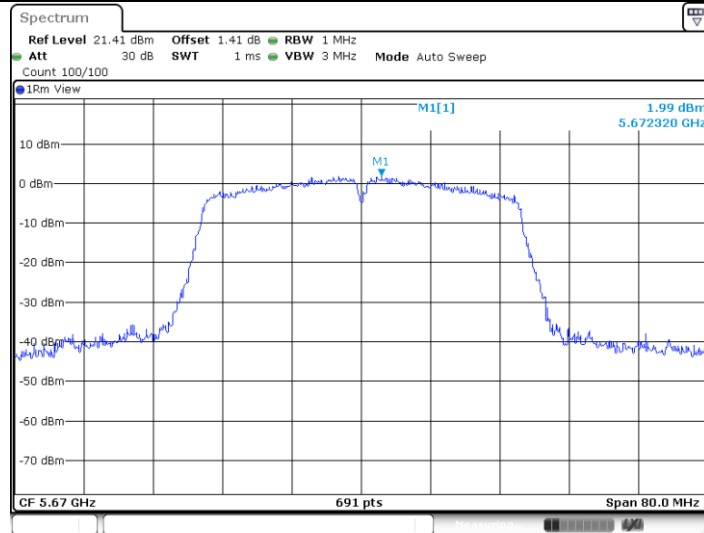
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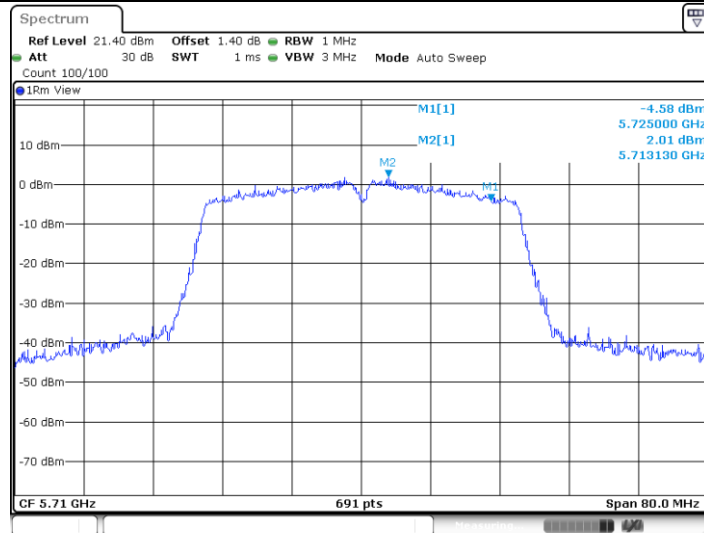
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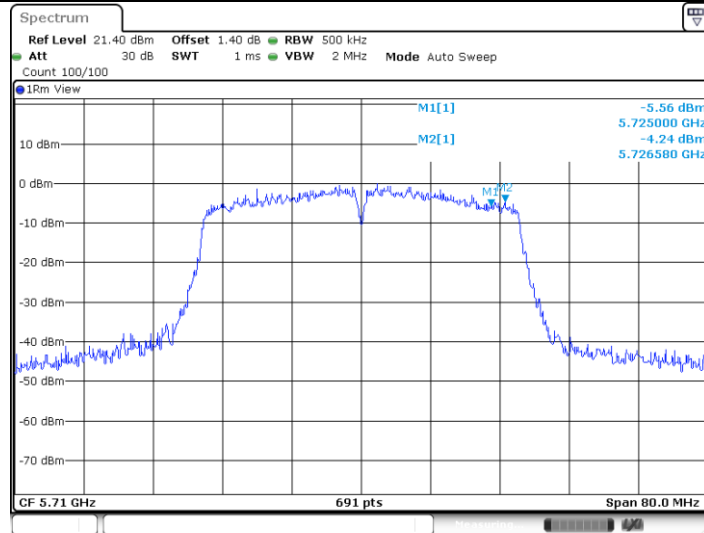
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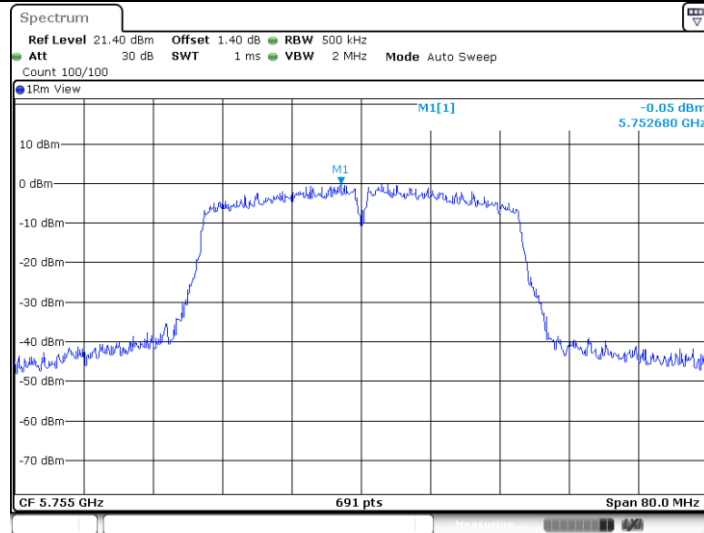
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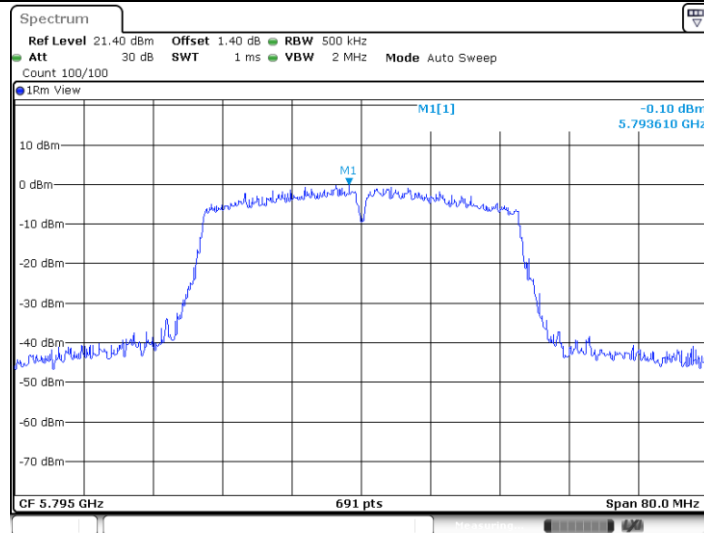
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11N40SISO_Ant1_5755



Date: 12 JUN 2020 21:17:26

11N40SISO_Ant1_5795



Date: 12 JUN 2020 21:19:46

9.5 Unwanted emissions

Transmitting spurious emission test result as below (Radiated Mode):

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna 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.
4. 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
5. Use the following spectrum analyzer settings According to C63.10:
 For Below 1GHz
 Use the following spectrum analyzer settings:
 Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 KHz to 120KHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold. For Peak unwanted emissions Above 1GHz:
 Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 1MHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 Procedures for Average Unwanted Emissions Measurements above 1000 MHz
 a) Follow the requirements in II.G.3. “General Requirements for Unwanted Emissions Measurements.”
 b) Average emission levels shall be measured using one of the following two methods.
 c) Method AD (Average Detection): Primary method
 (i) RBW = 1 MHz.
 (ii) VBW \geq 3 MHz.
 (iii) Detector = power averaging (rms), if span/(# of points in sweep) \leq RBW/2.
 Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak. As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
 (v) Sweep time = auto.
 (vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of 1/x, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e.,

100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

(vii) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

If power averaging (rms) mode was used in II.G.6.c)(iv), the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels. If linear voltage averaging mode was used in II.G.6.c)(iv), the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels. If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Limit

According to part 15.407b (6), the radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

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 within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

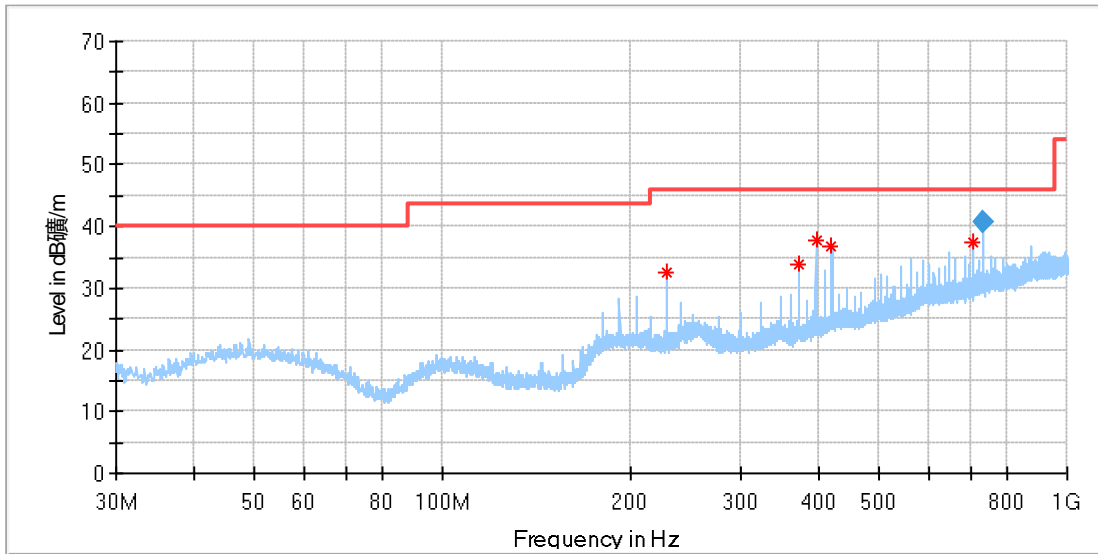
Note: According to KDB 789033 D02 (G): $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

According to C63.10, 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.

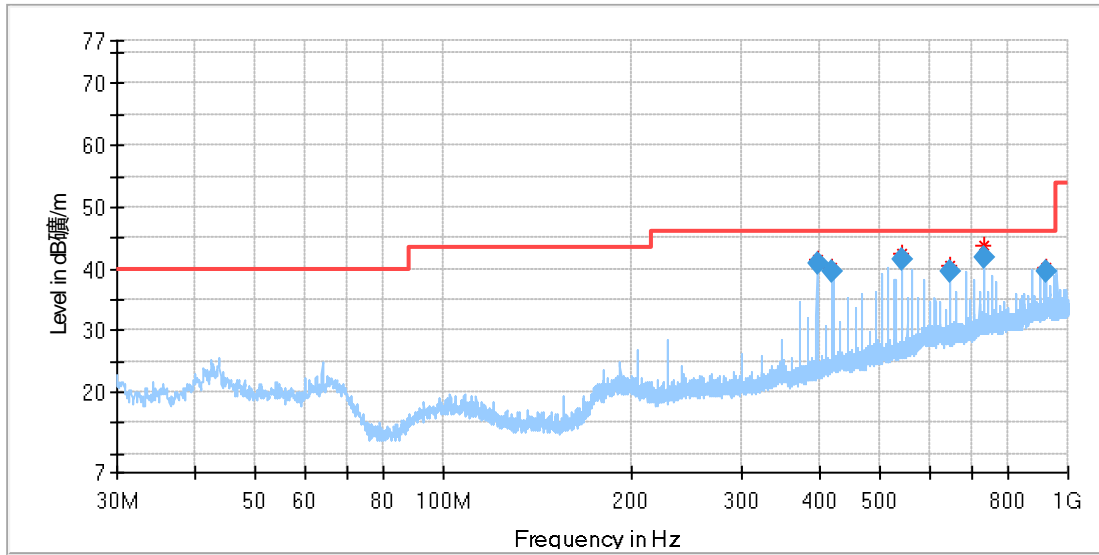
Only worse case of each bandwidth 802.11A with 20MHz bandwidth and 802.11n40 with 40MHz bandwidth were shown in the report were.

Transmitting spurious emission test result as below:

Below 1G:



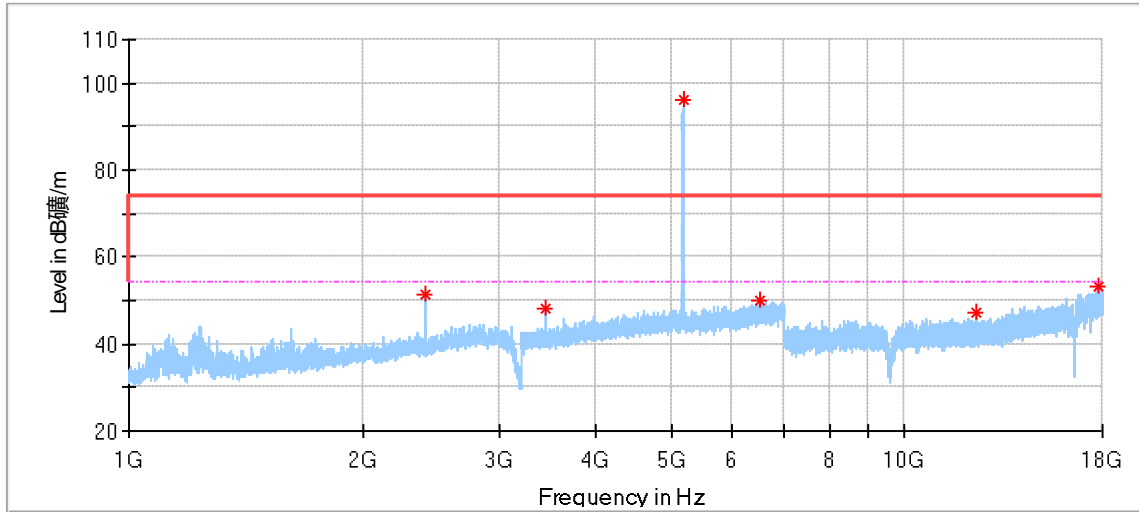
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
228.001250	32.68	46.00	13.32	100.0	H	351.0	17
372.046250	33.88	46.00	12.12	100.0	H	145.0	20
395.993125	37.65	46.00	8.35	100.0	H	135.0	21
420.000625	36.68	46.00	9.32	100.0	H	145.0	22
708.090625	37.39	46.00	8.61	100.0	H	0.0	27
732.098125	40.56	46.00	5.44	100.0	H	351.0	27
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
732.098125	40.56	39.93	6.07	100.0	H	351.0	27



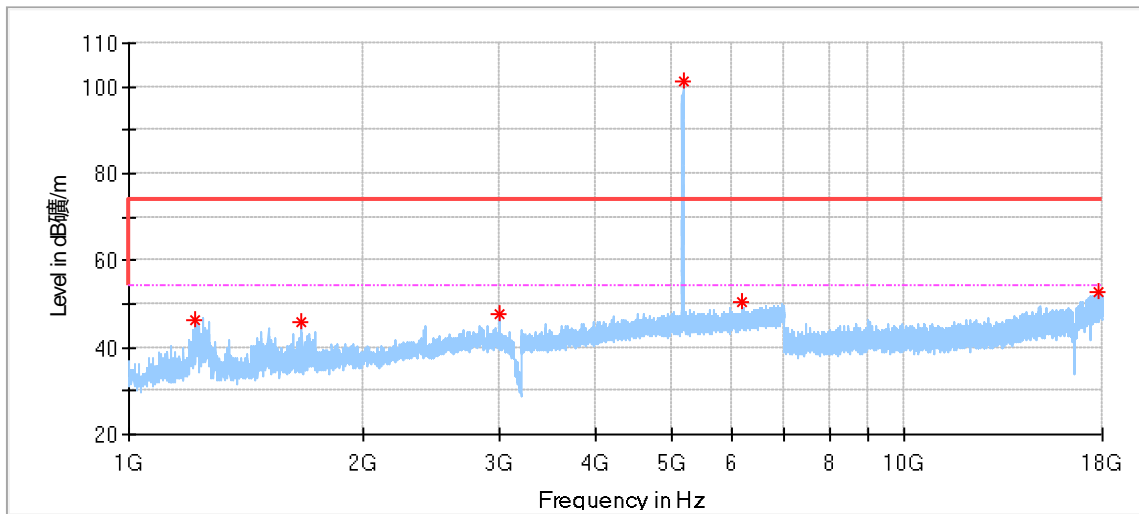
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
396.053750	41.45	46.00	4.55	100.0	V	333.0	21
420.000625	40.22	46.00	5.78	100.0	V	278.0	22
540.056563	42.41	46.00	3.59	115.0	V	337.0	24
648.071875	40.42	46.00	5.58	100.0	V	0.0	26
732.077188	43.76	46.00	2.24	100.0	V	214.0	27
924.097500	40.31	46.00	5.69	100.0	V	5.0	30
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
396.053750	41.02	46.00	4.98	100.0	V	333.0	21
420.000625	39.69	46.00	6.31	100.0	V	278.0	22
540.056563	41.47	46.00	4.53	115.0	V	337.0	24
648.071875	39.51	46.00	6.49	100.0	V	0.0	26
732.077188	41.80	46.00	4.20	100.0	V	214.0	27
924.097500	39.68	46.00	6.32	100.0	V	5.0	30

Remark: The emissions above the limit are fundamental working frequencies.

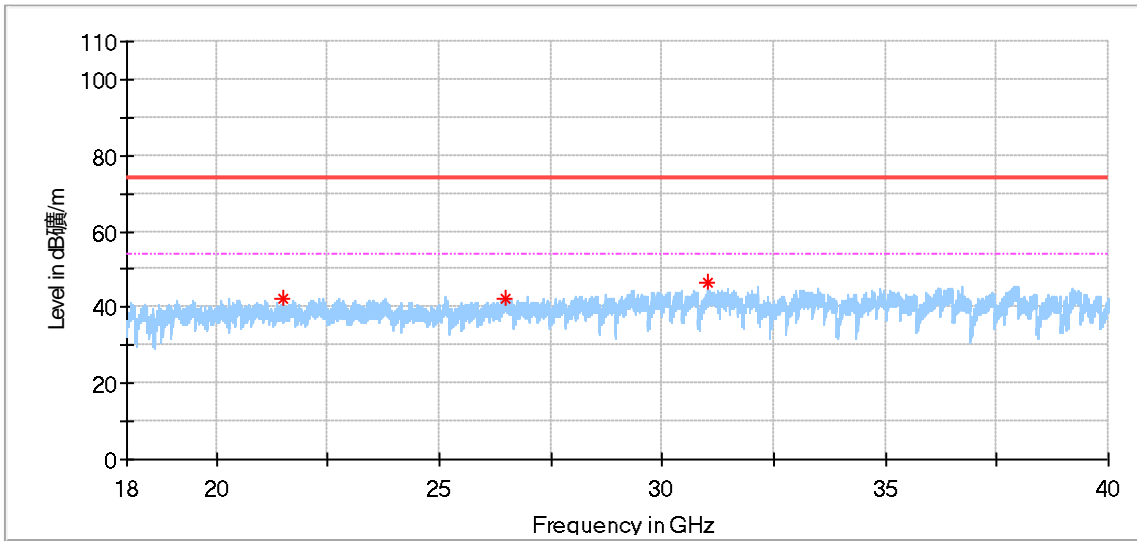
802.11A Modulation 5180MHz Test Result



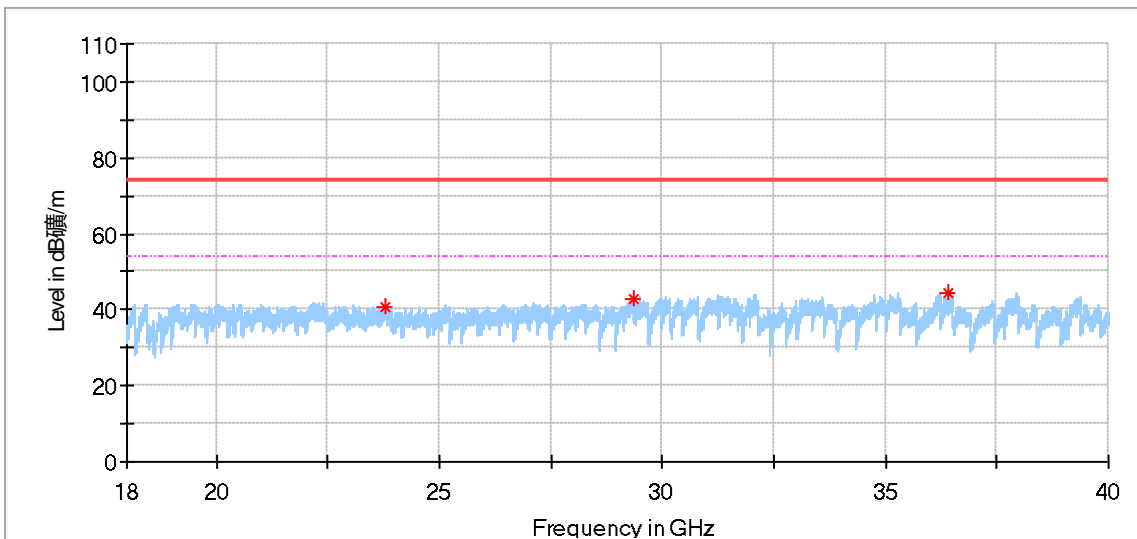
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2411.000000	51.44	74.00	22.56	150.0	H	319.0	-6.7
3453.500000	48.30	74.00	25.70	150.0	H	282.0	-2.2
6518.500000	49.95	74.00	24.05	150.0	H	176.0	5.7
12398.000000	47.17	74.00	26.83	150.0	H	203.0	8.8
17821.500000	53.03	74.00	20.97	150.0	H	290.0	18.9



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1218.500000	46.41	74.00	27.59	150.0	V	0.0	-12.8
1665.500000	45.63	74.00	28.37	150.0	V	36.0	-10.3
3000.000000	47.50	74.00	26.50	150.0	V	184.0	-3.3
6154.500000	50.41	74.00	23.59	150.0	V	5.0	4.5
17769.000000	52.64	74.00	21.36	150.0	V	138.0	19.1

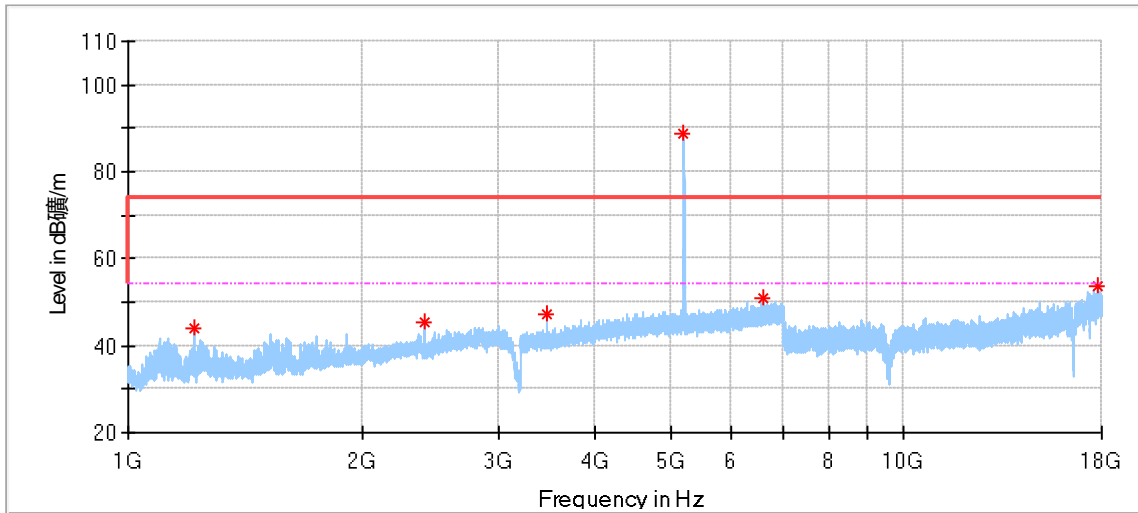


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21495.250000	42.33	74.00	31.67	---	---	154.0	H	357.0	-0.1
26465.875000	42.08	74.00	31.92	---	---	154.0	H	0.0	2.5
31039.125000	46.35	74.00	27.65	---	---	154.0	H	234.0	2.5

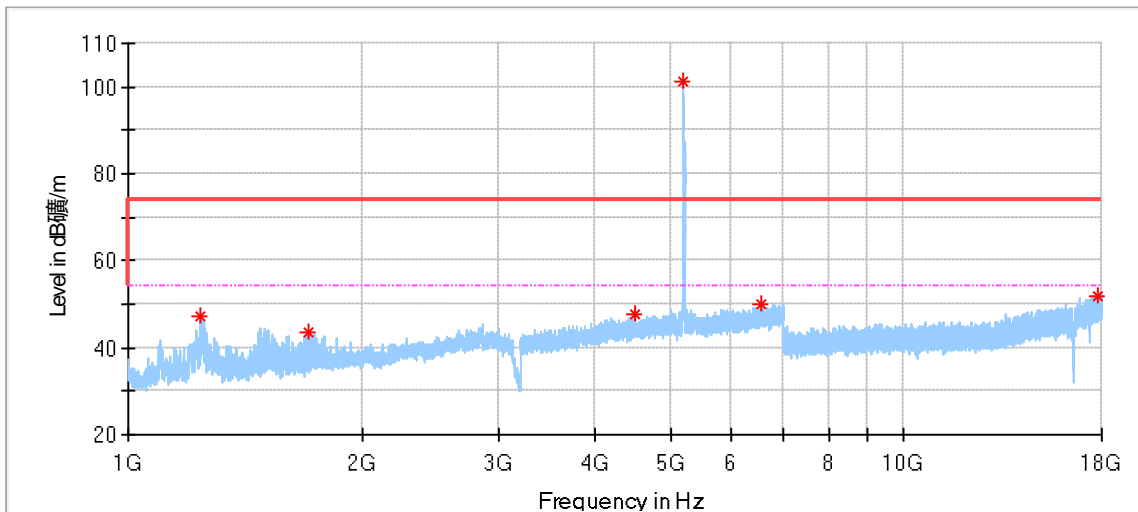


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
23804.562500	40.79	74.00	33.21	---	---	154.0	V	7.0	0.5
29360.937500	42.78	74.00	31.22	---	---	154.0	V	274.0	1.5
36397.500000	44.37	74.00	29.63	---	---	154.0	V	359.0	4.3

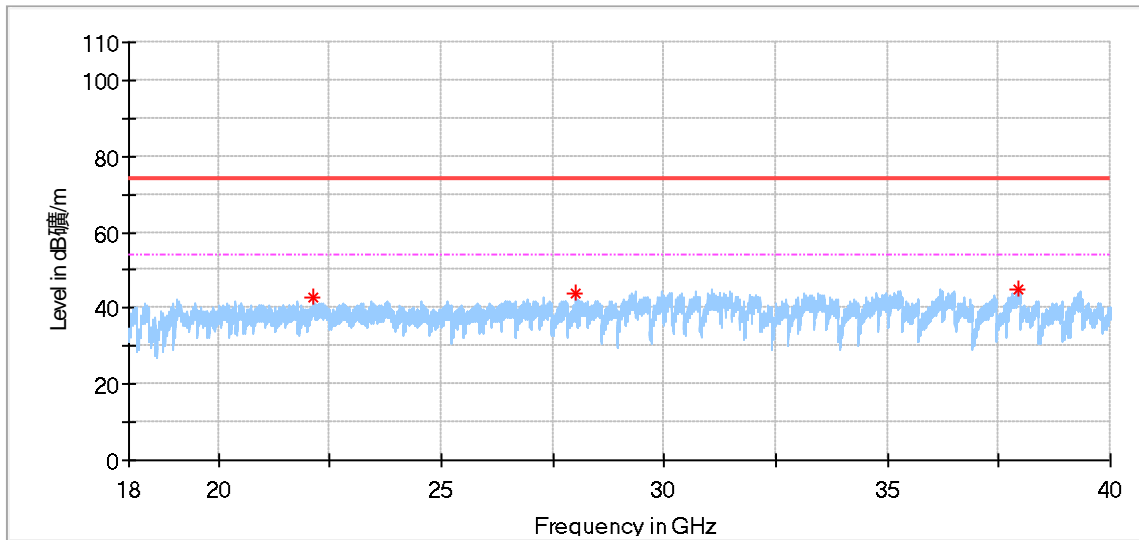
11A Modulation 5200MHz Test Result



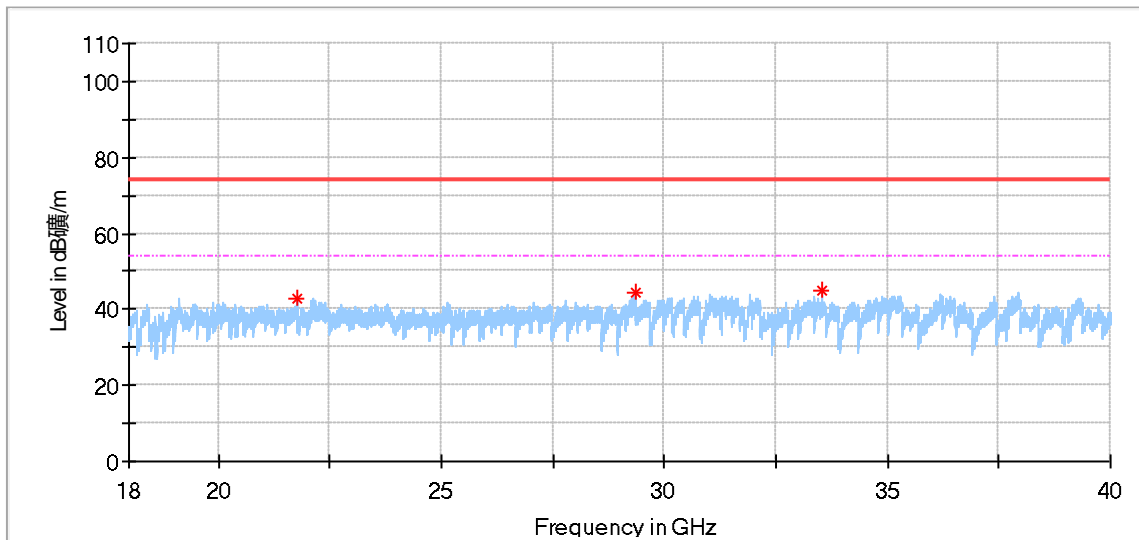
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1219.000000	43.78	74.00	30.22	150.0	H	40.0	-12.8
2408.000000	45.54	74.00	28.46	150.0	H	208.0	-6.8
3466.500000	47.34	74.00	26.66	150.0	H	277.0	-2.0
6582.500000	51.00	74.00	23.00	150.0	H	262.0	6.2
17761.000000	53.83	74.00	20.17	150.0	H	241.0	19.1



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1240.000000	47.37	74.00	26.63	150.0	V	341.0	-12.6
1708.500000	43.62	74.00	30.38	150.0	V	14.0	-10.0
4489.500000	47.48	74.00	26.52	150.0	V	58.0	2.4
6553.500000	50.16	74.00	23.84	150.0	V	3.0	5.9
17736.000000	51.94	74.00	22.06	150.0	V	193.0	19.3

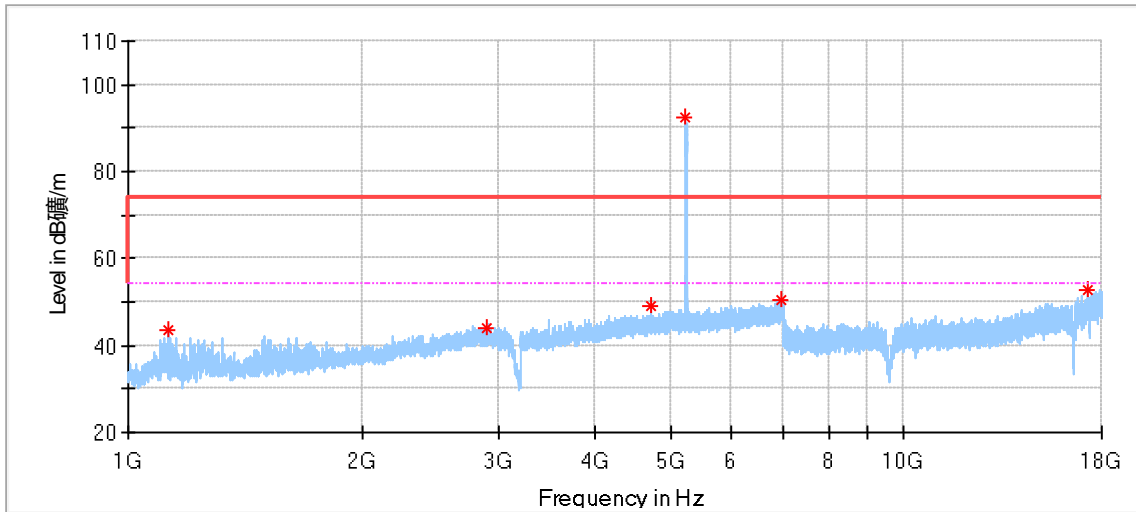


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22140.125000	42.83	74.00	31.17	---	---	154.0	H	4.0	0.3
28021.687500	43.83	74.00	30.17	---	---	154.0	H	137.0	2.1
37930.625000	45.20	74.00	28.80	---	---	154.0	H	235.0	6.0

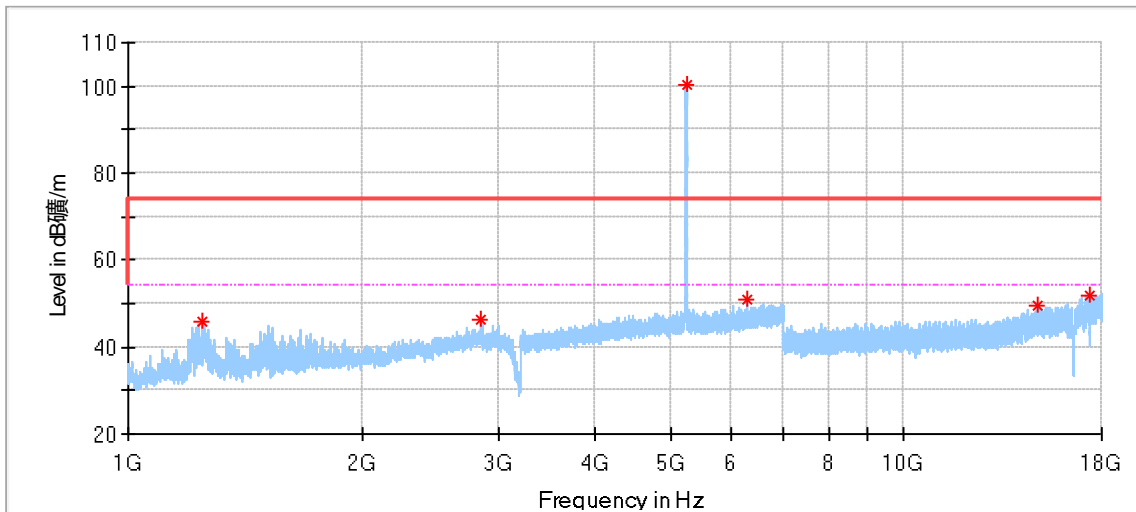


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21766.125000	42.67	74.00	31.33	---	---	154.0	V	352.0	0.0
29365.062500	44.66	74.00	29.34	---	---	154.0	V	251.0	1.5
33527.187500	45.01	74.00	28.99	---	---	154.0	V	0.0	2.6

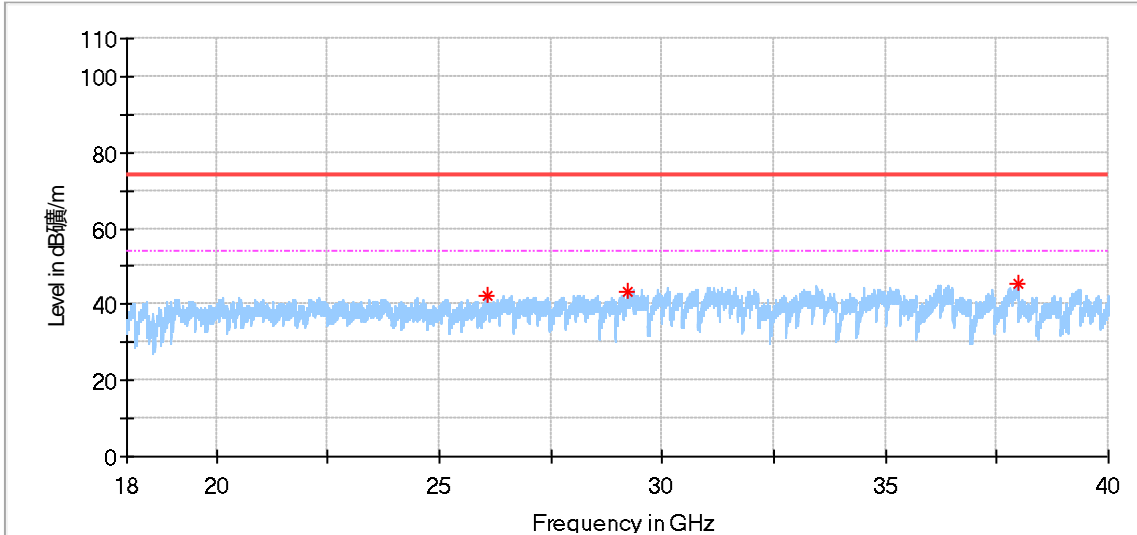
802.11A Modulation 5240MHz Test Result



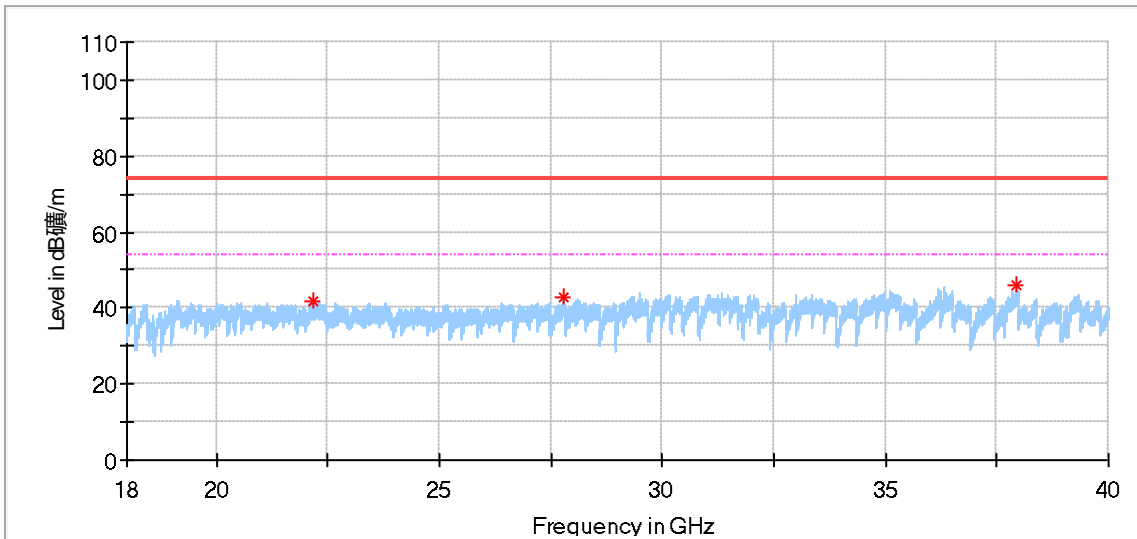
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1127.500000	43.47	74.00	30.53	150.0	H	0.0	-13.3
2892.000000	43.94	74.00	30.06	150.0	H	223.0	-4.4
4724.500000	48.90	74.00	25.10	150.0	H	359.0	2.4
6959.000000	50.68	74.00	23.32	150.0	H	297.0	6.8
17251.000000	53.00	74.00	21.00	150.0	H	333.0	18.2



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1243.000000	46.06	74.00	27.94	150.0	V	345.0	-12.6
2850.000000	46.32	74.00	27.68	150.0	V	44.0	-4.9
6279.500000	50.75	74.00	23.25	150.0	V	336.0	5.4
14871.000000	49.43	74.00	24.57	150.0	V	205.0	12.5
17407.000000	51.80	74.00	22.20	150.0	V	138.0	18.1

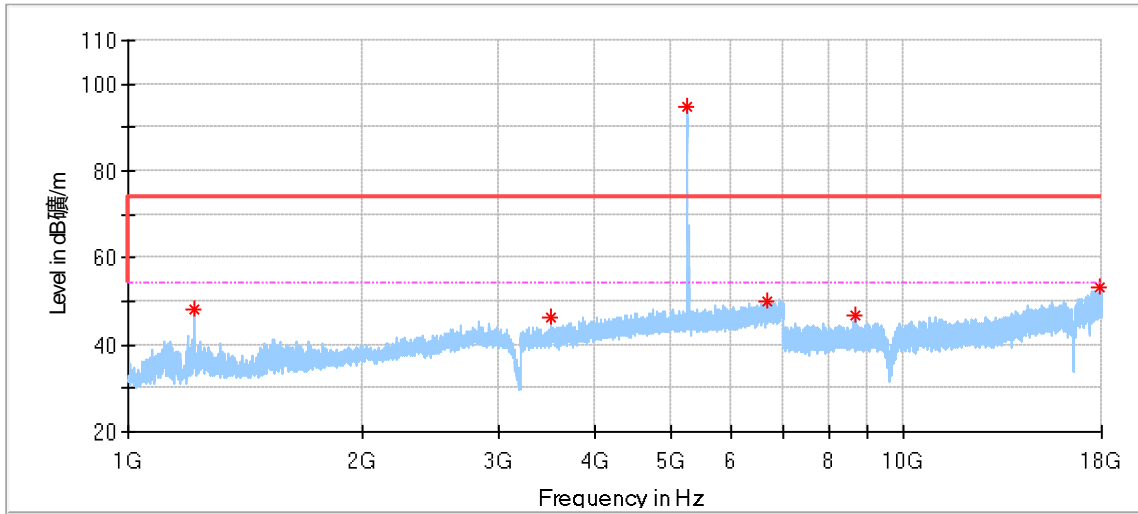


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
26066.437500	42.18	74.00	31.82	---	---	154.0	H	24.0	1.4
29205.562500	43.26	74.00	30.74	---	---	154.0	H	9.0	2.3
37969.125000	45.64	74.00	28.36	---	---	154.0	H	324.0	6.0

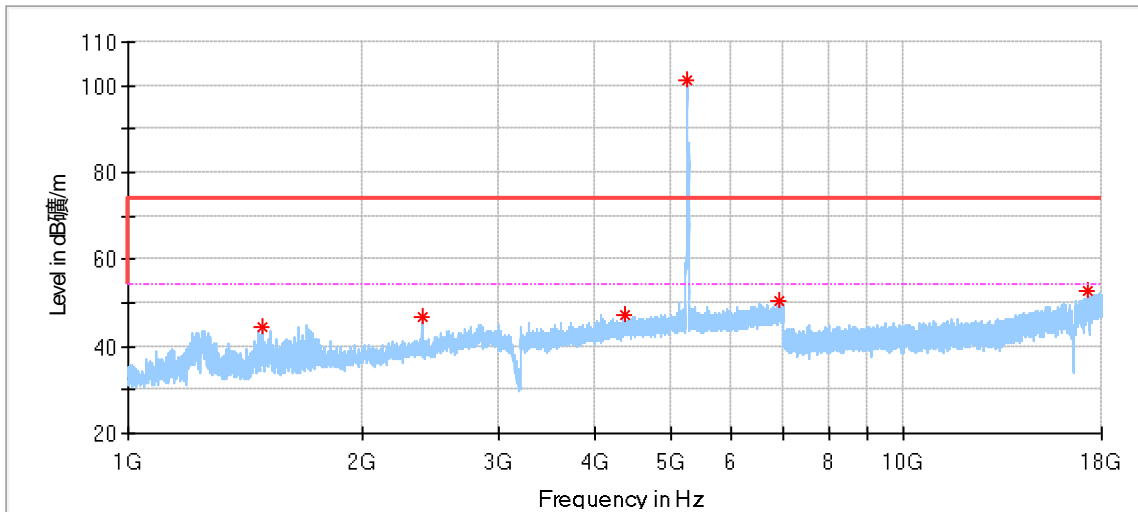


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22195.125000	41.68	74.00	32.32	---	---	154.0	V	246.0	0.3
27781.062500	42.74	74.00	31.26	---	---	154.0	V	290.0	1.4
37954.000000	46.11	74.00	27.89	---	---	154.0	V	0.0	5.4

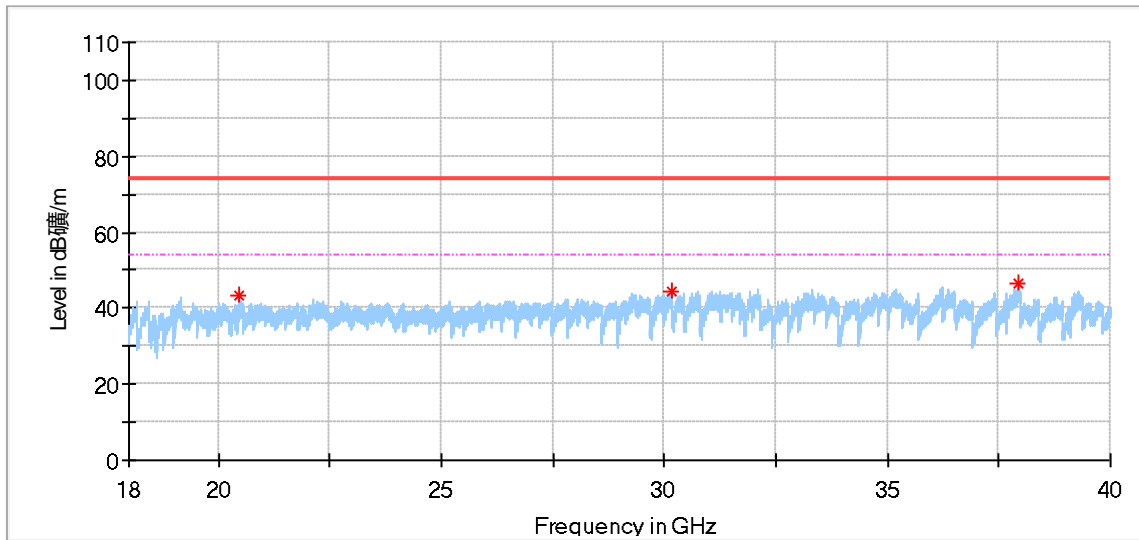
802.11A Modulation 5260MHz Test Result



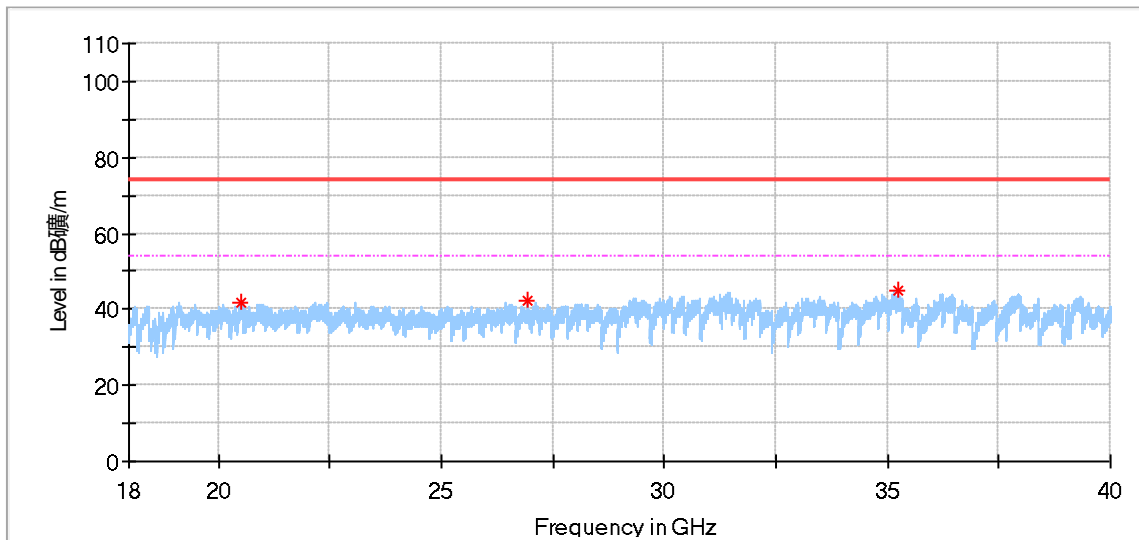
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1219.000000	48.09	74.00	25.91	150.0	H	37.0	-12.8
3506.500000	46.27	74.00	27.73	150.0	H	248.0	-1.8
6661.000000	50.14	74.00	23.86	150.0	H	217.0	6.2
8687.000000	46.60	74.00	27.40	150.0	H	79.0	7.0
17870.000000	53.32	74.00	20.68	150.0	H	134.0	19.4



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1488.500000	44.56	74.00	29.44	150.0	V	322.0	-11.3
2390.500000	46.94	74.00	27.06	150.0	V	168.0	-6.8
4361.500000	47.31	74.00	26.69	150.0	V	80.0	2.5
6890.000000	50.58	74.00	23.42	150.0	V	80.0	6.7
17215.500000	52.57	74.00	21.43	150.0	V	121.0	18.1

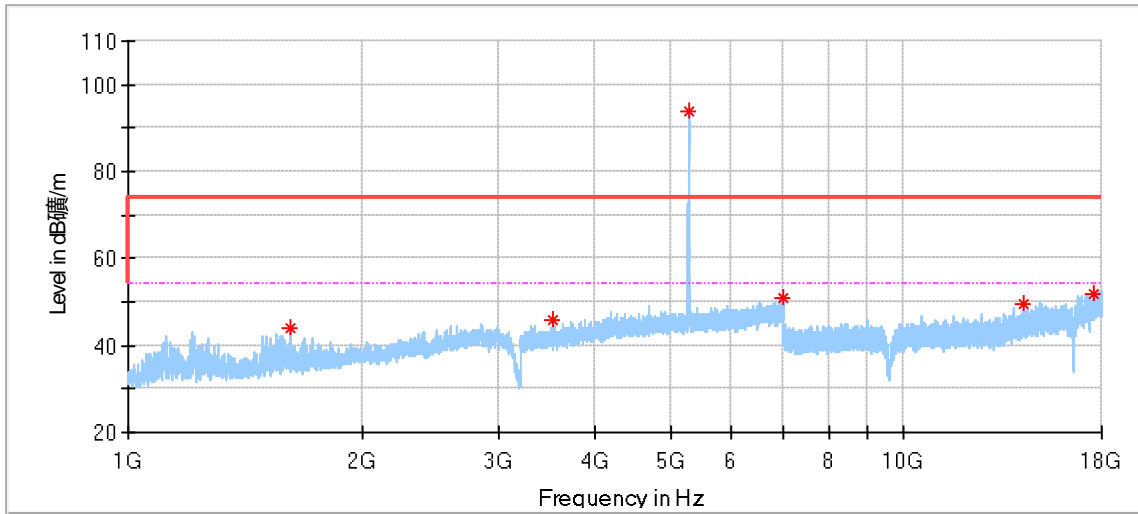


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20471.562500	43.35	74.00	30.65	---	---	154.0	H	221.0	-0.9
30171.500000	44.52	74.00	29.48	---	---	154.0	H	359.0	2.6
37935.437500	46.74	74.00	27.26	---	---	154.0	H	10.0	6.0

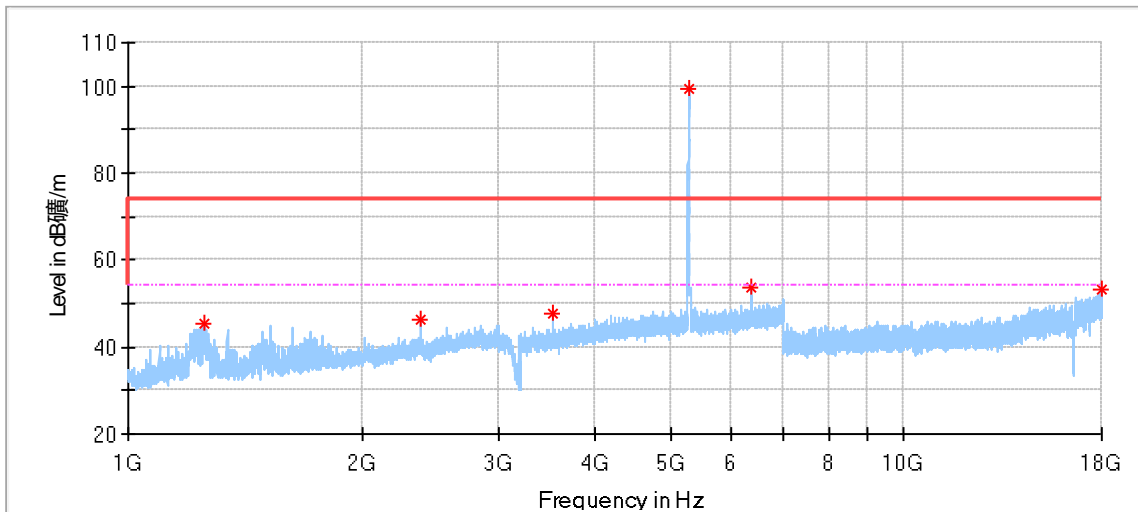


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20505.937500	41.93	74.00	32.07	---	---	154.0	V	185.0	-0.9
26922.375000	42.14	74.00	31.86	---	---	154.0	V	315.0	1.3
35239.062500	44.96	74.00	29.04	---	---	154.0	V	37.0	3.9

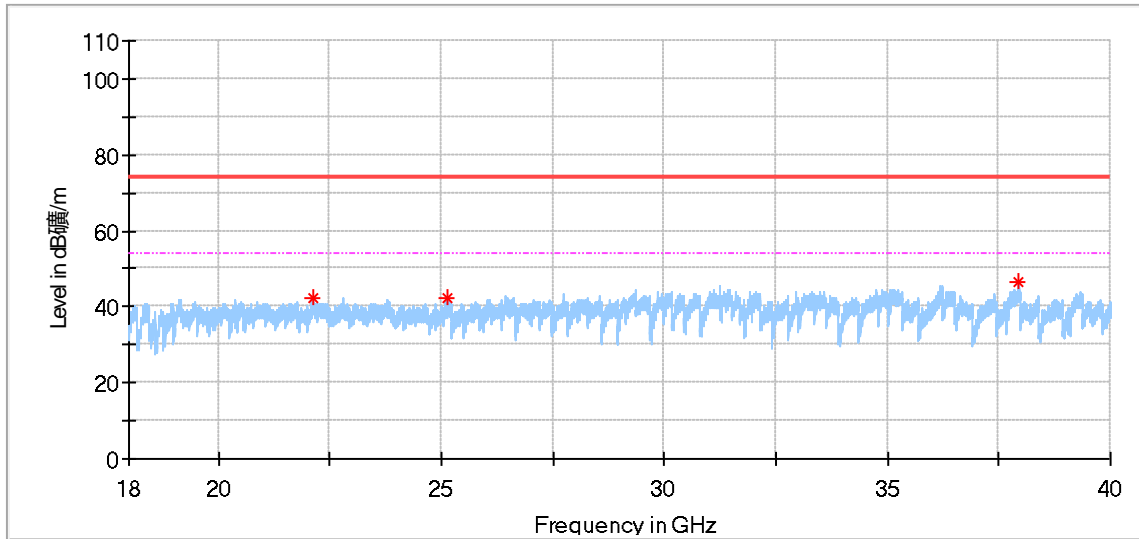
802.11A Modulation 5280MHz Test Result



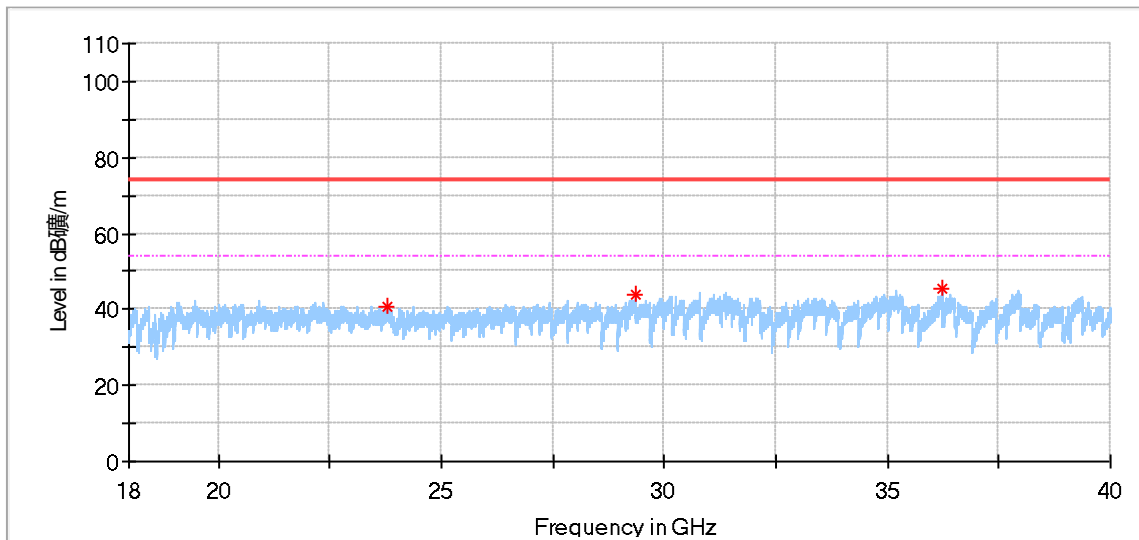
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1620.500000	44.01	74.00	29.99	150.0	H	336.0	-10.6
3520.000000	45.99	74.00	28.01	150.0	H	284.0	-1.8
6985.000000	50.95	74.00	23.05	150.0	H	245.0	6.9
14303.000000	49.44	74.00	24.56	150.0	H	208.0	10.7
17595.000000	51.71	74.00	22.29	150.0	H	192.0	18.7



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1255.500000	45.42	74.00	28.58	150.0	V	342.0	-12.5
2388.500000	46.10	74.00	27.90	150.0	V	164.0	-6.8
3520.000000	47.70	74.00	26.30	150.0	V	283.0	-1.8
6354.500000	53.80	74.00	20.20	150.0	V	86.0	5.3
17948.000000	53.21	74.00	20.79	150.0	V	101.0	19.2

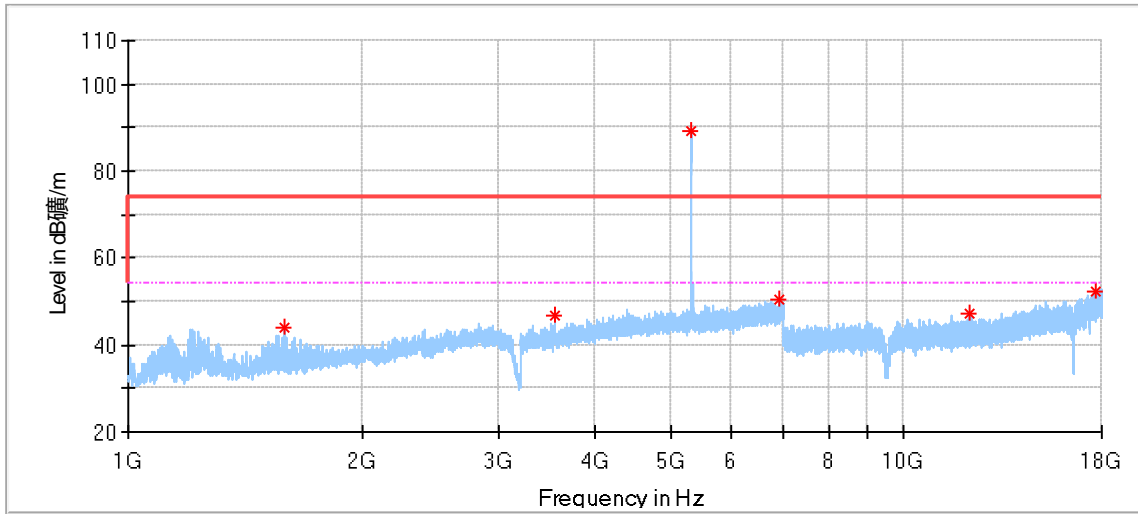


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22124.312500	42.21	74.00	31.79	---	---	154.0	H	0.0	0.3
25150.687500	42.47	74.00	31.53	---	---	154.0	H	8.0	0.9
37956.750000	46.65	74.00	27.35	---	---	154.0	H	359.0	6.0

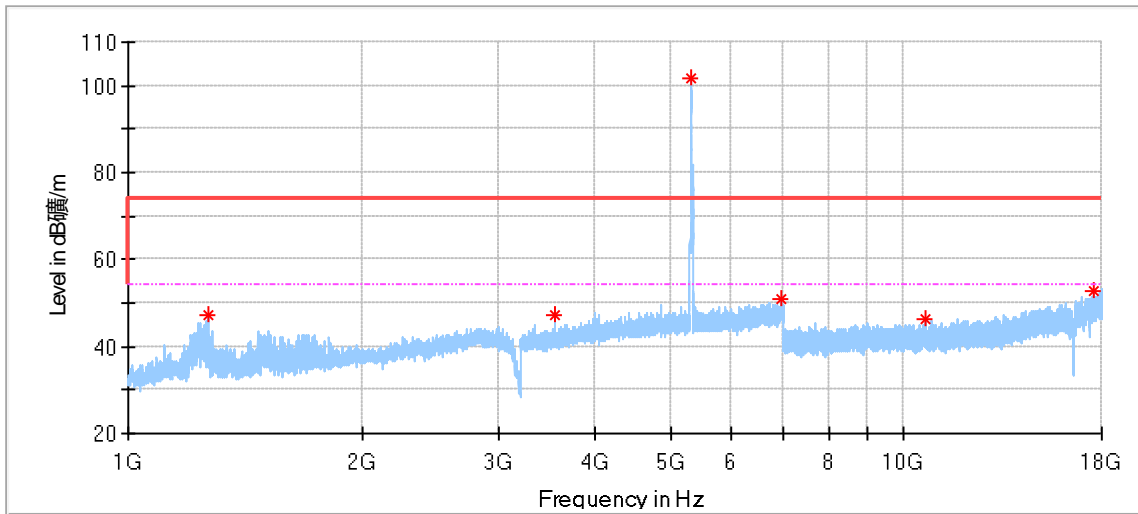


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
23790.125000	40.95	74.00	33.05	---	---	154.0	V	355.0	0.5
29343.062500	43.65	74.00	30.35	---	---	154.0	V	0.0	1.5
36225.625000	45.65	74.00	28.35	---	---	154.0	V	149.0	4.1

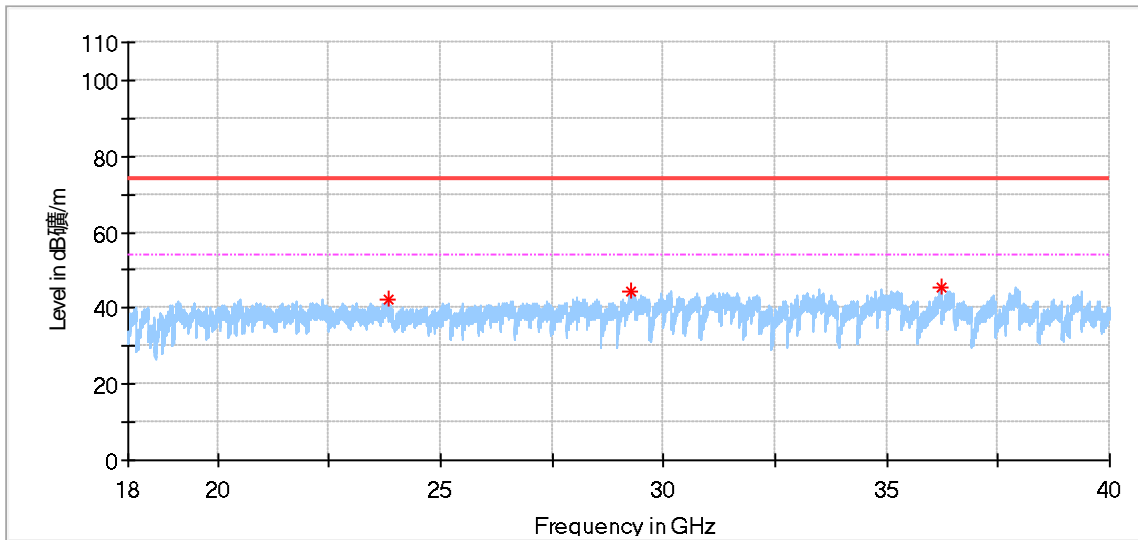
802.11A Modulation 5320MHz Test Result



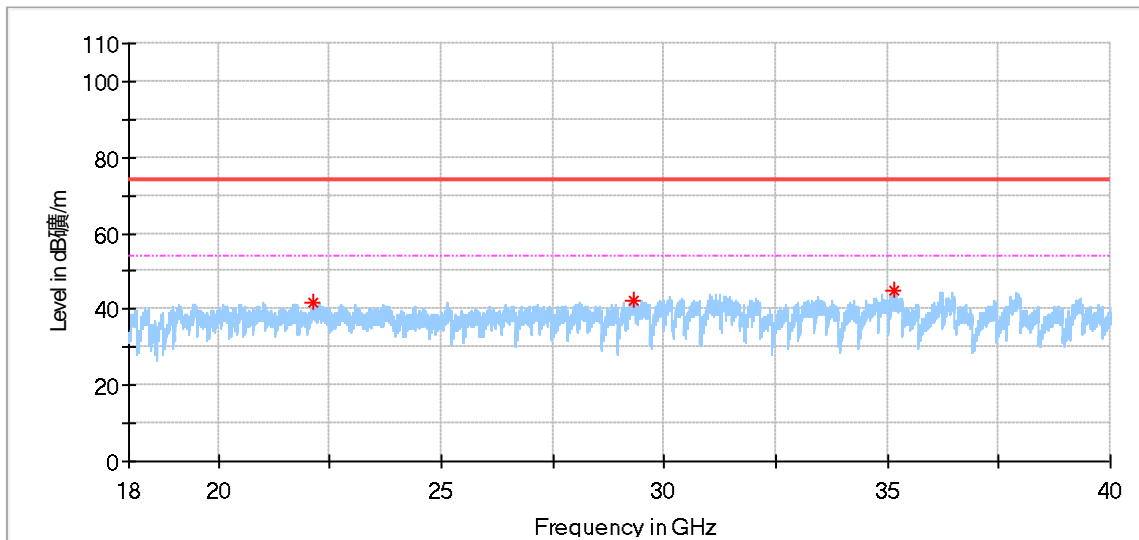
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1594.000000	44.13	74.00	29.87	150.0	H	243.0	-10.7
3546.500000	46.76	74.00	27.24	150.0	H	330.0	-1.7
6897.500000	50.40	74.00	23.60	150.0	H	179.0	6.5
12129.500000	47.40	74.00	26.60	150.0	H	314.0	8.4
17705.000000	52.34	74.00	21.66	150.0	H	353.0	19.1



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1269.500000	47.39	74.00	26.61	150.0	V	345.0	-12.4
3547.000000	47.03	74.00	26.97	150.0	V	63.0	-1.7
6952.000000	51.12	74.00	22.88	150.0	V	333.0	6.6
10634.500000	46.39	74.00	27.61	150.0	V	100.0	7.7
17528.000000	52.80	74.00	21.20	150.0	V	222.0	18.4

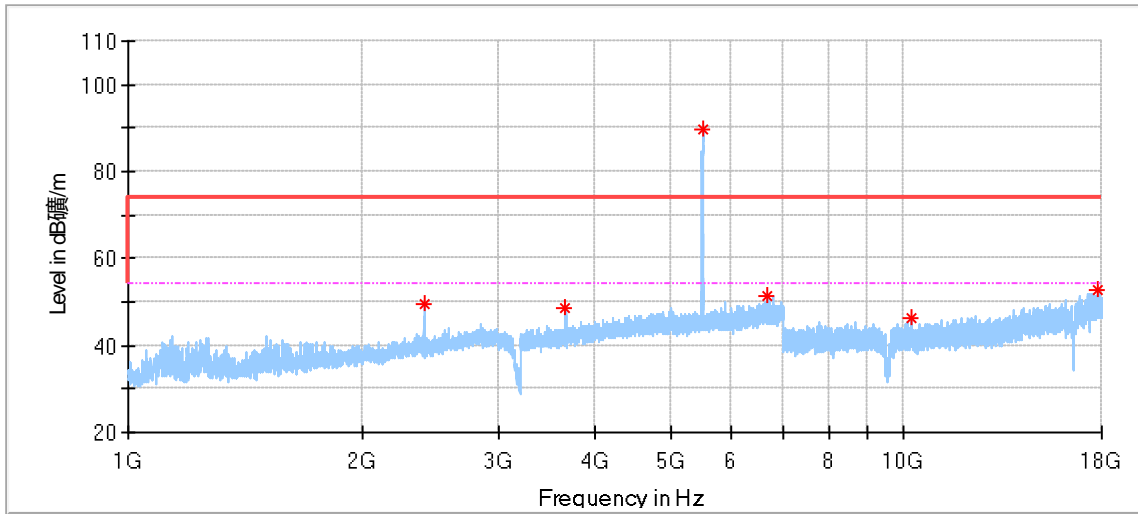


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
23824.500000	42.26	74.00	31.74	---	---	154.0	H	325.0	1.1
29274.312500	44.58	74.00	29.42	---	---	154.0	H	6.0	2.3
36213.250000	45.48	74.00	28.52	---	---	154.0	H	209.0	4.8

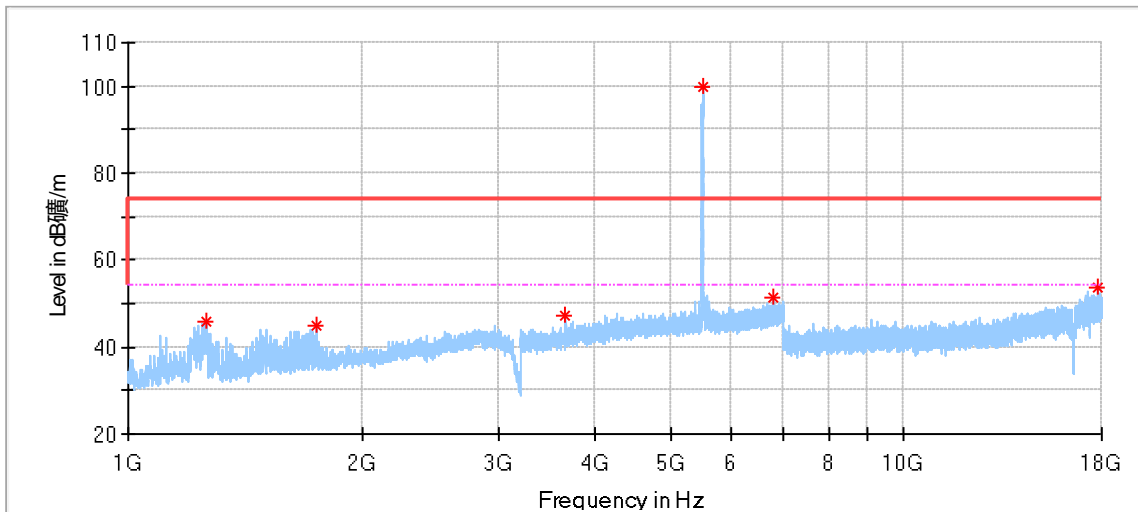


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22126.375000	41.78	74.00	32.22	---	---	154.0	V	42.0	0.2
29313.500000	42.47	74.00	31.53	---	---	154.0	V	93.0	1.5
35132.500000	44.95	74.00	29.05	---	---	154.0	V	67.0	3.9

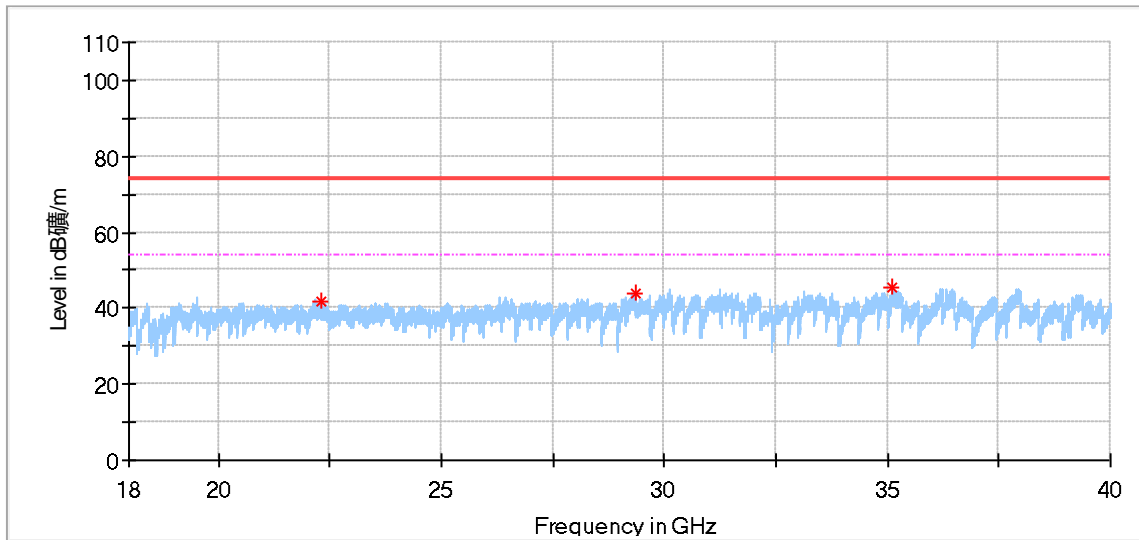
802.11A Modulation 5500MHz Test Result



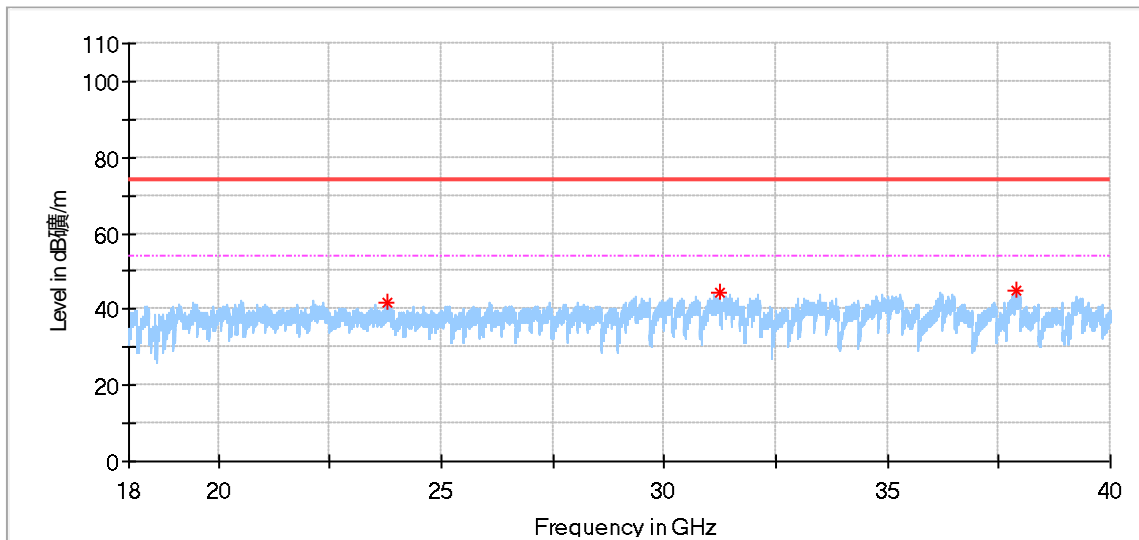
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2405.000000	49.36	74.00	24.64	150.0	H	262.0	-6.8
3666.500000	48.64	74.00	25.36	150.0	H	254.0	-1.1
6653.000000	51.47	74.00	22.53	150.0	H	194.0	6.2
10230.500000	46.09	74.00	27.91	150.0	H	4.0	8.0
17806.500000	52.57	74.00	21.43	150.0	H	343.0	18.9



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1257.500000	45.66	74.00	28.34	150.0	V	354.0	-12.5
1745.000000	45.03	74.00	28.97	150.0	V	26.0	-9.8
3667.000000	47.32	74.00	26.68	150.0	V	85.0	-1.1
6797.500000	51.32	74.00	22.68	150.0	V	61.0	6.2
17738.000000	53.50	74.00	20.50	150.0	V	138.0	19.3

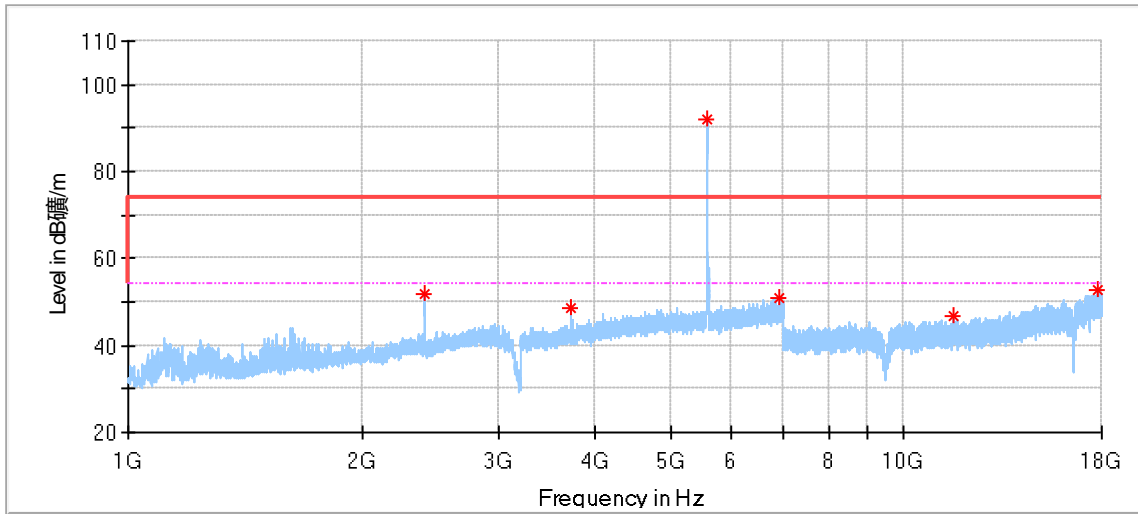


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22328.500000	41.61	74.00	32.39	---	---	154.0	H	236.0	0.3
29345.812500	44.11	74.00	29.89	---	---	154.0	H	39.0	2.4
35122.875000	45.25	74.00	28.75	---	---	154.0	H	3.0	4.4

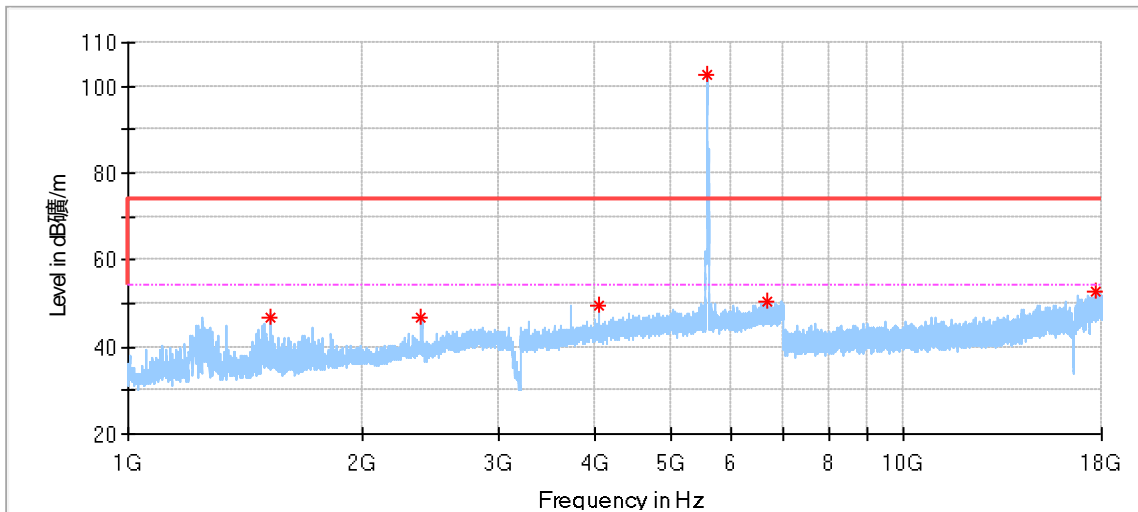


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
23777.062500	41.84	74.00	32.16	---	---	154.0	V	358.0	0.5
31255.000000	44.62	74.00	29.38	---	---	154.0	V	312.0	2.0
37883.187500	44.81	74.00	29.19	---	---	154.0	V	0.0	5.3

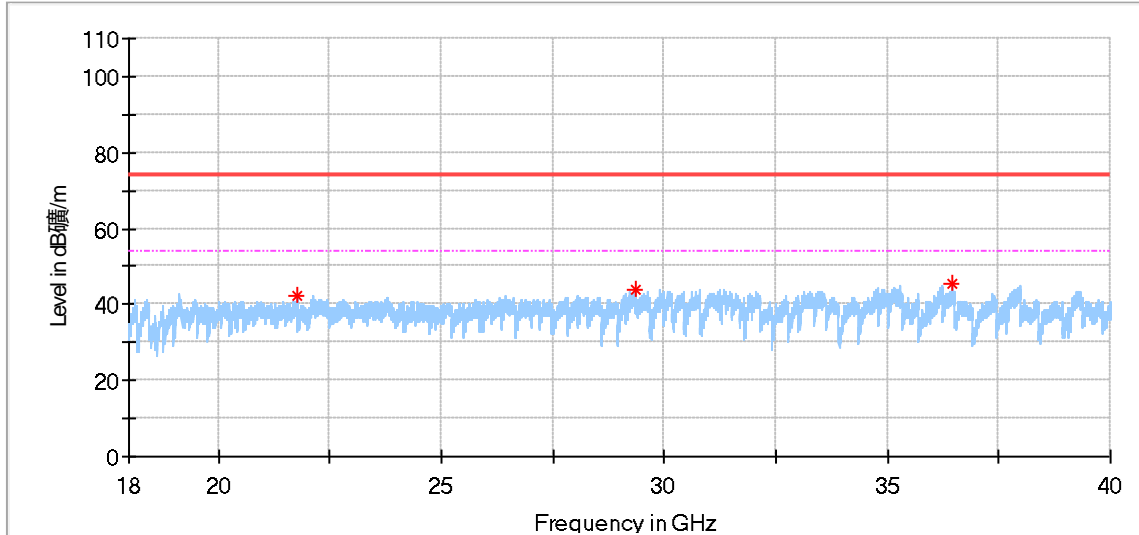
802.11A Modulation 5580MHz Test Result



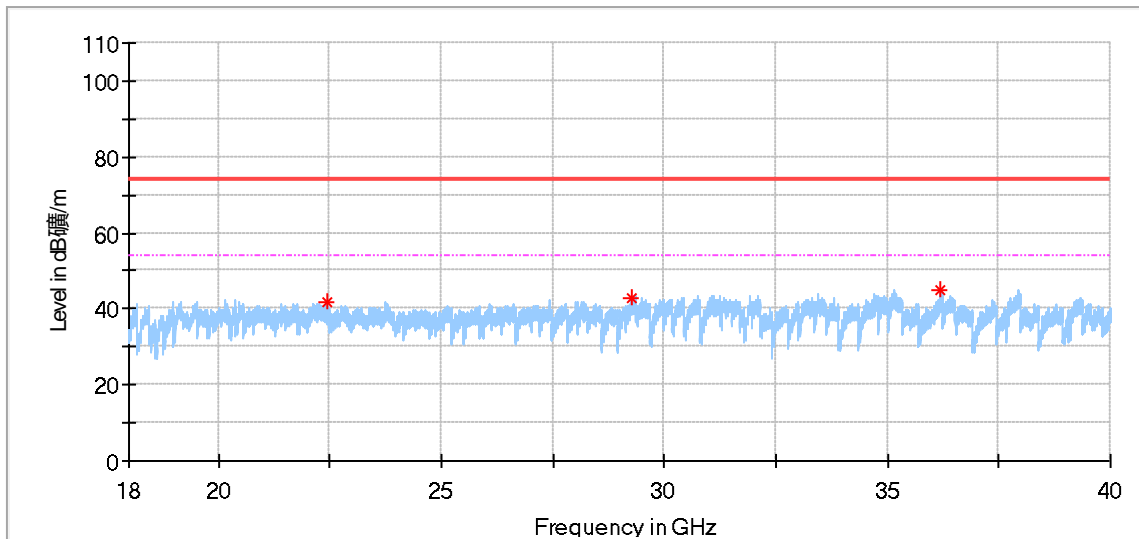
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2411.500000	52.03	74.00	21.97	150.0	H	138.0	-6.7
3720.500000	48.84	74.00	25.16	150.0	H	248.0	-0.2
6919.500000	51.11	74.00	22.89	150.0	H	236.0	6.3
11605.500000	46.82	74.00	27.18	150.0	H	32.0	8.1
17750.500000	52.93	74.00	21.07	150.0	H	116.0	19.2



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1524.000000	46.81	74.00	27.19	150.0	V	293.0	-11.0
2389.000000	46.61	74.00	27.39	150.0	V	203.0	-6.8
4036.500000	49.66	74.00	24.34	150.0	V	63.0	0.7
6669.000000	50.48	74.00	23.52	150.0	V	225.0	6.1
17678.500000	52.76	74.00	21.24	150.0	V	114.0	18.8

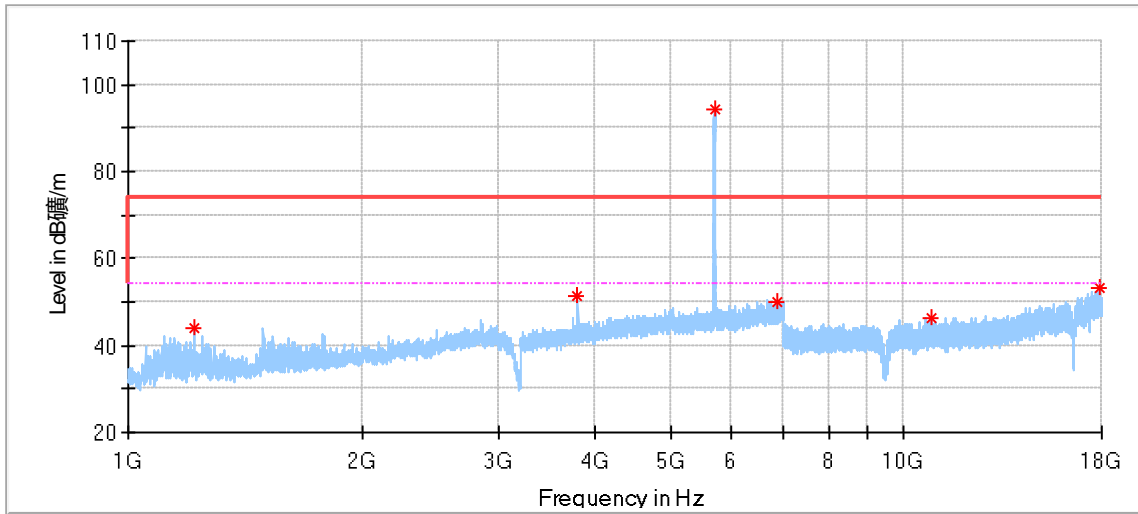


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21753.750000	42.09	74.00	31.91	---	---	154.0	H	90.0	0.1
29337.562500	43.97	74.00	30.03	---	---	154.0	H	12.0	2.4
36466.937500	45.23	74.00	28.77	---	---	154.0	H	78.0	5.2

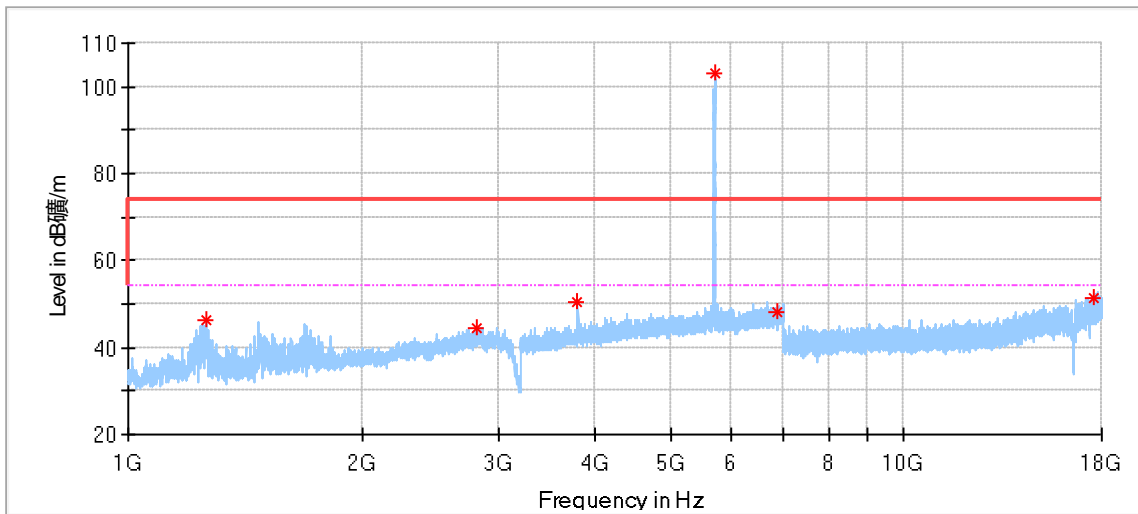


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22424.750000	41.60	74.00	32.40	---	---	154.0	V	247.0	0.1
29251.625000	43.00	74.00	31.00	---	---	154.0	V	48.0	1.4
36199.500000	45.13	74.00	28.87	---	---	154.0	V	0.0	4.1

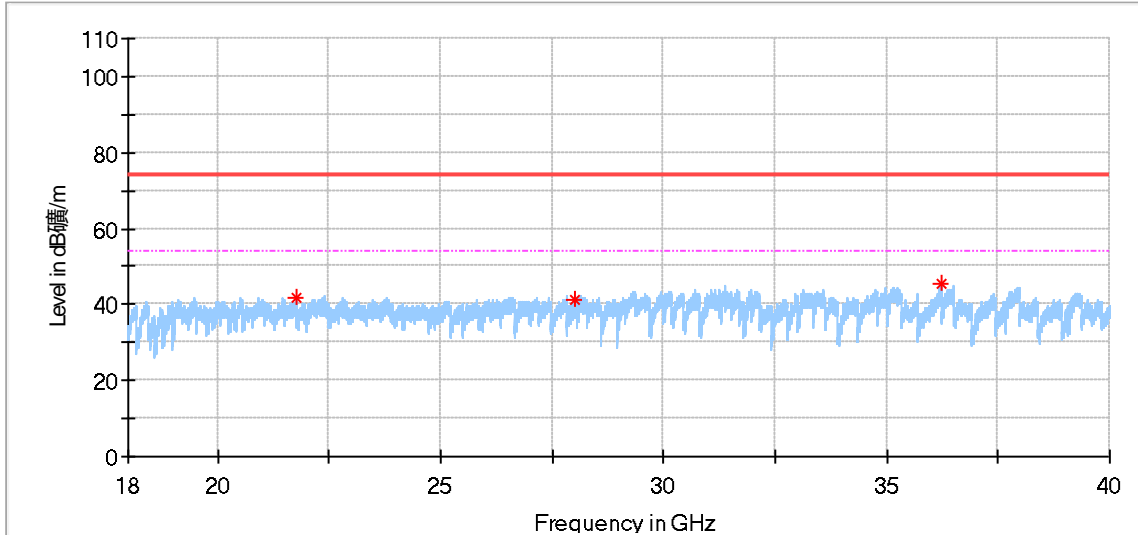
802.11A Modulation 5700MHz Test Result



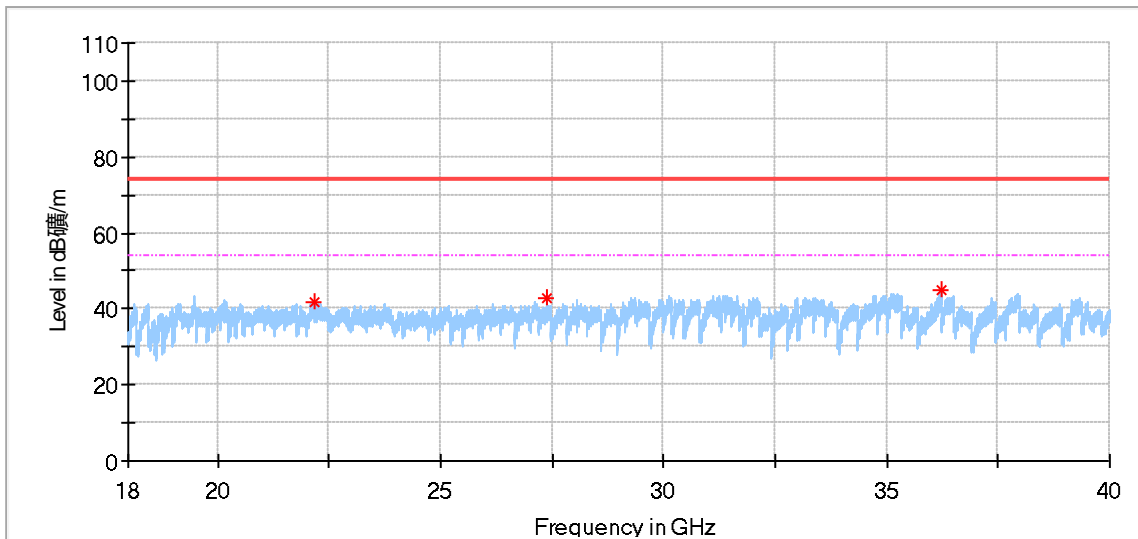
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1218.500000	44.02	74.00	29.98	150.0	H	39.0	-12.8
3800.000000	51.26	74.00	22.74	150.0	H	125.0	-0.7
6849.500000	49.78	74.00	24.22	150.0	H	256.0	6.5
10883.500000	46.48	74.00	27.52	150.0	H	175.0	7.3
17868.500000	53.07	74.00	20.93	150.0	H	91.0	19.4



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1260.000000	46.27	74.00	27.73	150.0	V	344.0	-12.5
2817.000000	44.60	74.00	29.40	150.0	V	107.0	-5.0
3800.500000	50.50	74.00	23.50	150.0	V	256.0	-0.7
6855.500000	48.15	74.00	25.85	150.0	V	291.0	6.5
17565.000000	51.18	74.00	22.82	150.0	V	358.0	18.6

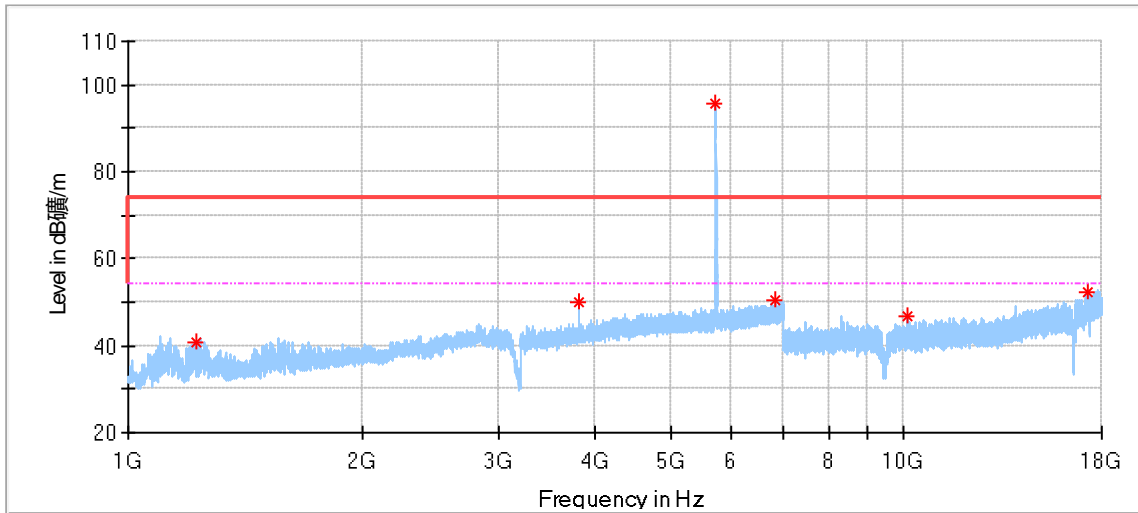


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21768.875000	41.58	74.00	32.42	---	---	154.0	H	0.0	0.1
28027.187500	41.44	74.00	32.56	---	---	154.0	H	125.0	2.1
36229.750000	45.51	74.00	28.49	---	---	154.0	H	260.0	4.9

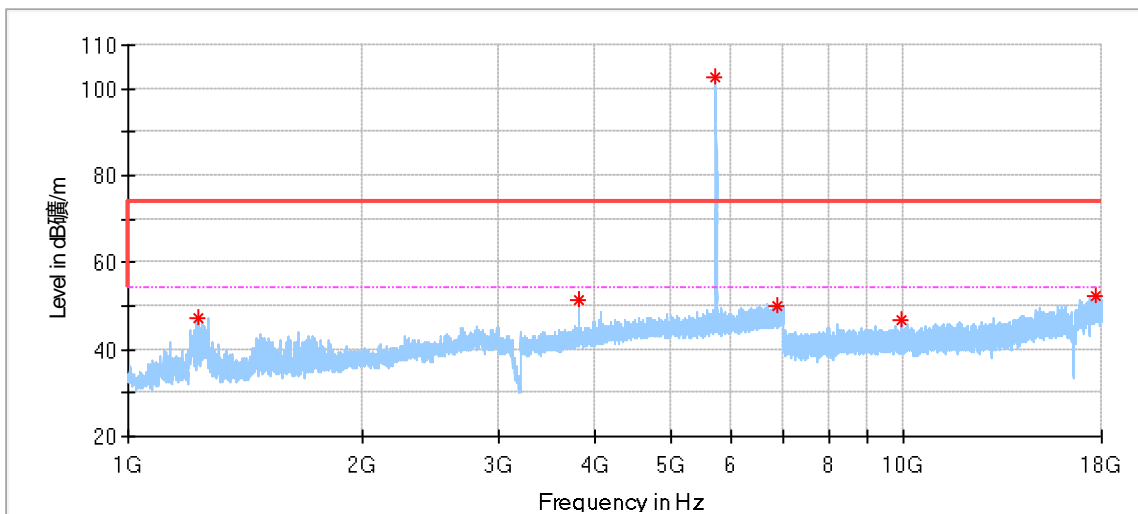


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22184.812500	41.93	74.00	32.07	---	---	154.0	V	2.0	0.3
27405.000000	42.76	74.00	31.24	---	---	154.0	V	2.0	1.2
36228.375000	45.09	74.00	28.91	---	---	154.0	V	99.0	4.1

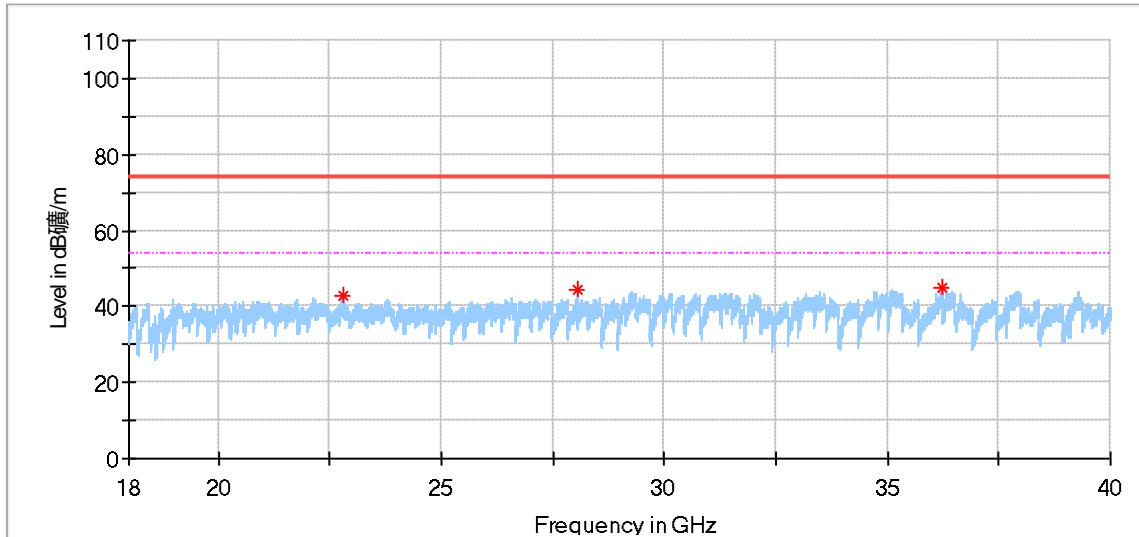
802.11A Modulation 5720MHz Test Result



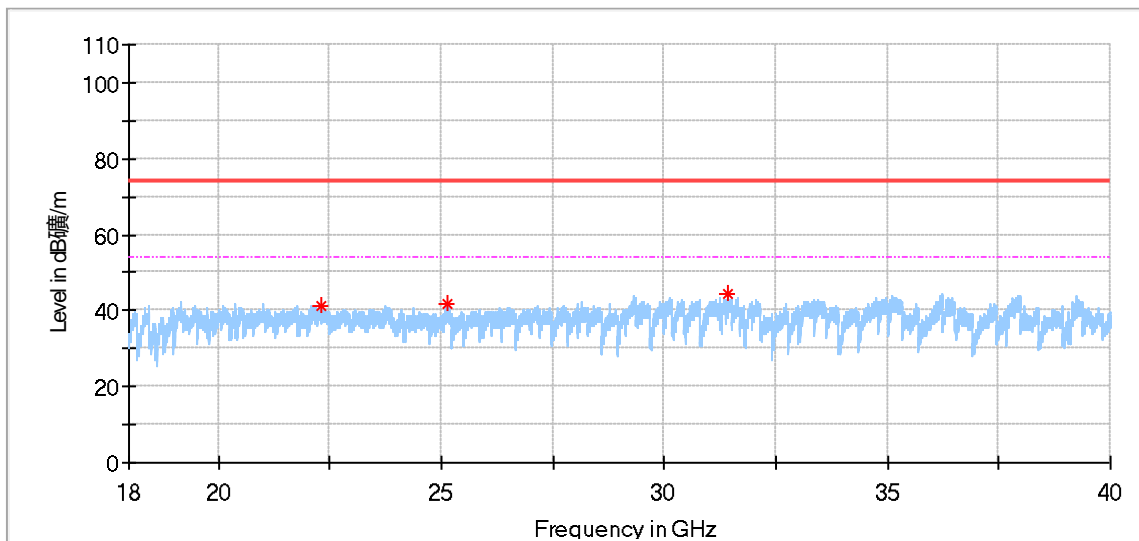
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1224.000000	40.82	74.00	33.18	150.0	H	28.0	-12.8
3813.500000	49.79	74.00	24.21	150.0	H	171.0	-0.4
6846.500000	50.46	74.00	23.54	150.0	H	202.0	6.5
10089.000000	46.58	74.00	27.42	150.0	H	219.0	8.1
17217.500000	52.21	74.00	21.79	150.0	H	269.0	18.1



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1232.000000	47.07	74.00	26.93	150.0	V	354.0	-12.7
3814.000000	51.23	74.00	22.77	150.0	V	265.0	-0.4
6863.000000	50.19	74.00	23.81	150.0	V	265.0	6.6
9904.000000	46.67	74.00	27.33	150.0	V	281.0	7.9
17724.500000	52.22	74.00	21.78	150.0	V	145.0	19.2

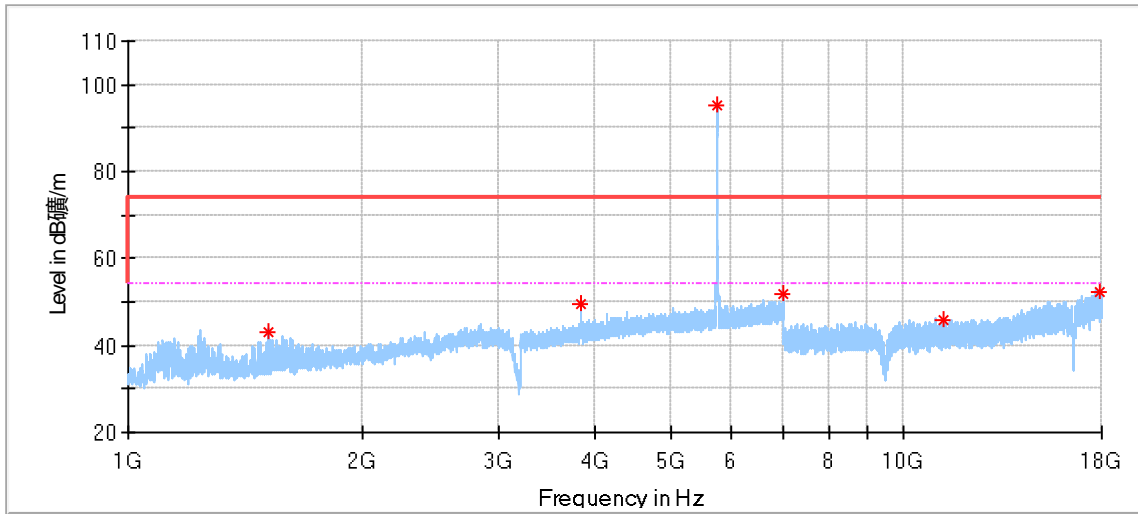


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22796.000000	42.70	74.00	31.30	---	---	154.0	H	356.0	0.6
28053.312500	44.50	74.00	29.50	---	---	154.0	H	352.0	2.1
36206.375000	44.73	74.00	29.27	---	---	154.0	H	281.0	4.8

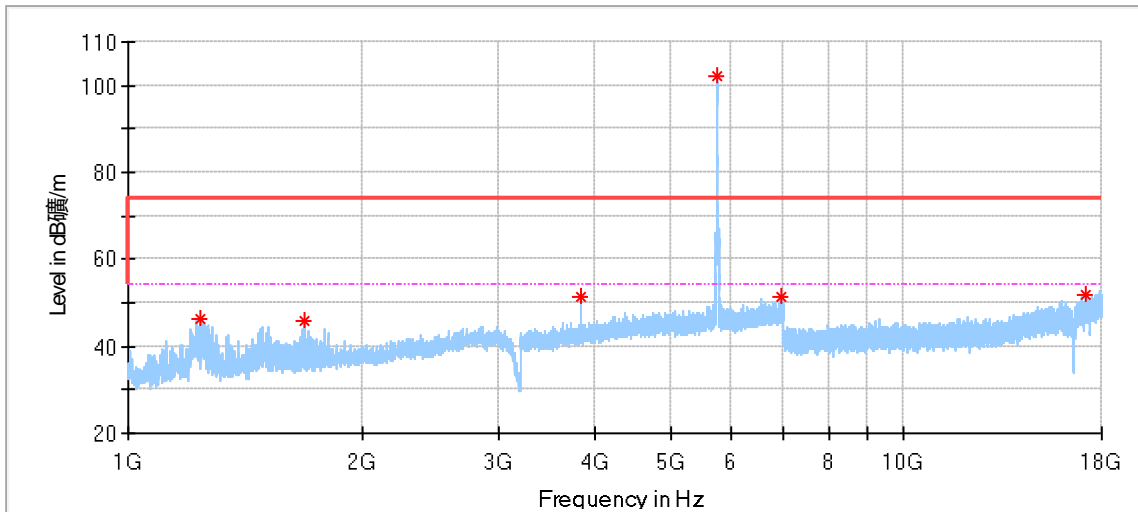


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22329.875000	41.44	74.00	32.56	---	---	154.0	V	18.0	0.2
25125.937500	41.64	74.00	32.36	---	---	154.0	V	279.0	0.4
31440.625000	44.55	74.00	29.45	---	---	154.0	V	106.0	2.1

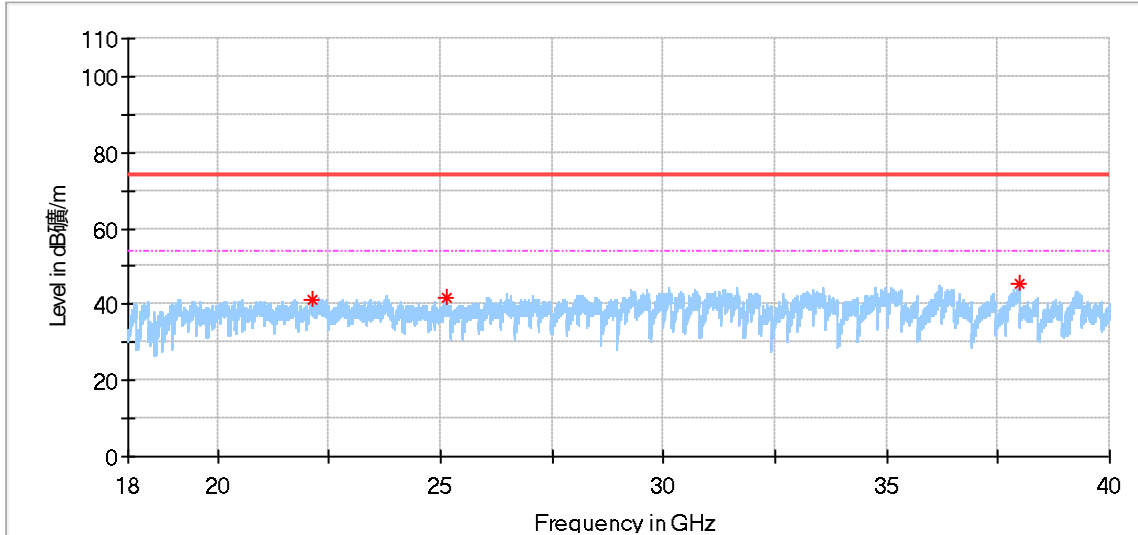
802.11A Modulation 5745MHz Test Result



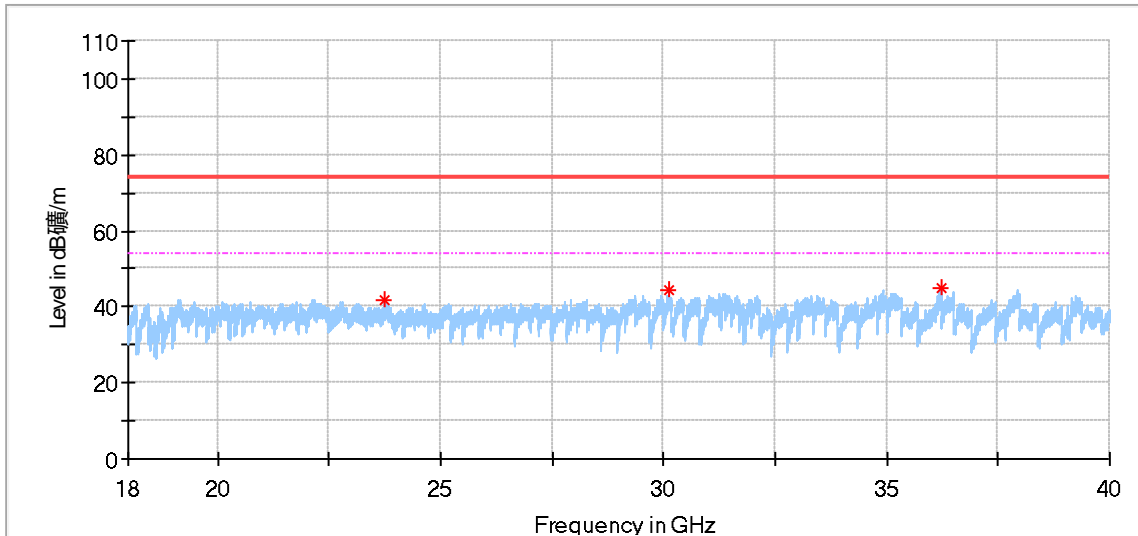
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1516.000000	43.00	74.00	31.00	150.0	H	15.0	-11.0
3830.000000	49.71	74.00	24.29	150.0	H	274.0	0.2
6995.500000	51.70	74.00	22.30	150.0	H	132.0	7.0
11230.500000	46.07	74.00	27.93	150.0	H	89.0	7.5
17856.500000	52.49	74.00	21.51	150.0	H	262.0	19.2



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1241.000000	46.48	74.00	27.52	150.0	V	350.0	-12.6
1687.000000	45.96	74.00	28.04	150.0	V	19.0	-10.1
3830.500000	51.50	74.00	22.50	150.0	V	273.0	0.2
6930.000000	51.29	74.00	22.71	150.0	V	31.0	6.4
17183.000000	51.67	74.00	22.33	150.0	V	81.0	17.8

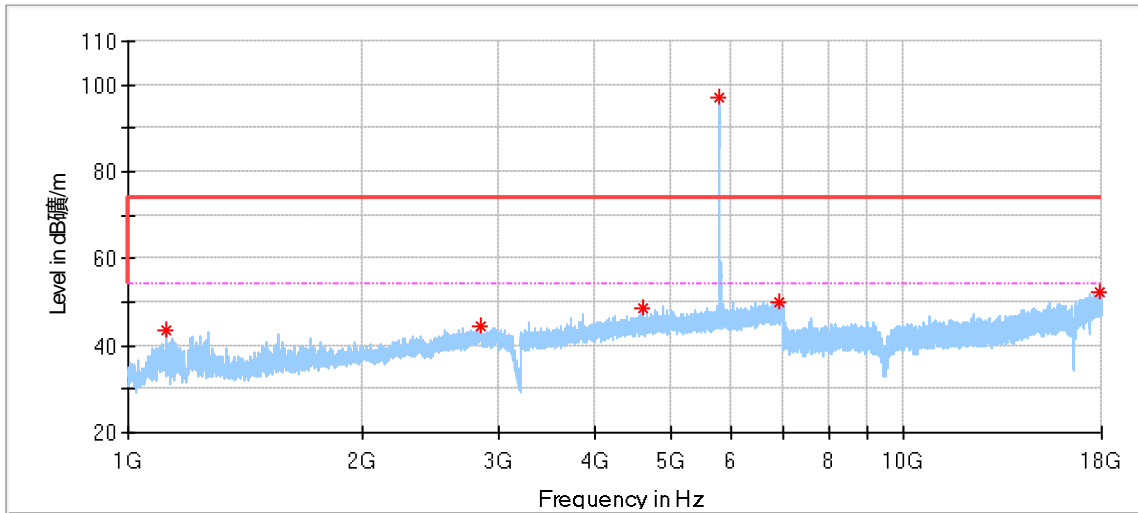


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22149.750000	41.30	74.00	32.70	---	---	154.0	H	149.0	0.3
25157.562500	41.56	74.00	32.44	---	---	154.0	H	317.0	0.9
37967.062500	45.59	74.00	28.41	---	---	154.0	H	0.0	6.0

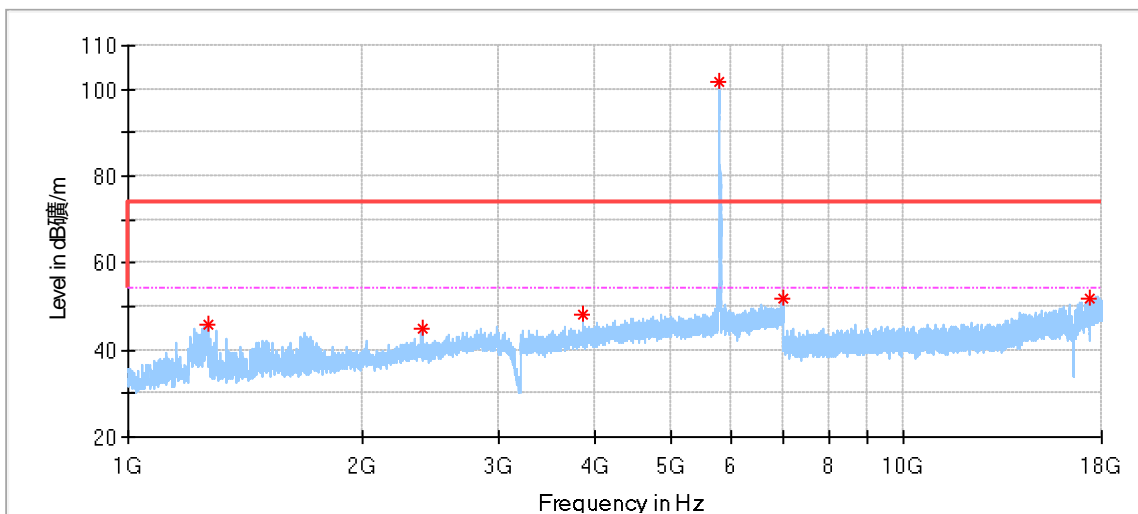


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
23754.375000	41.69	74.00	32.31	---	---	154.0	V	235.0	0.5
30134.375000	44.16	74.00	29.84	---	---	154.0	V	199.0	1.9
36208.437500	45.06	74.00	28.94	---	---	154.0	V	273.0	4.1

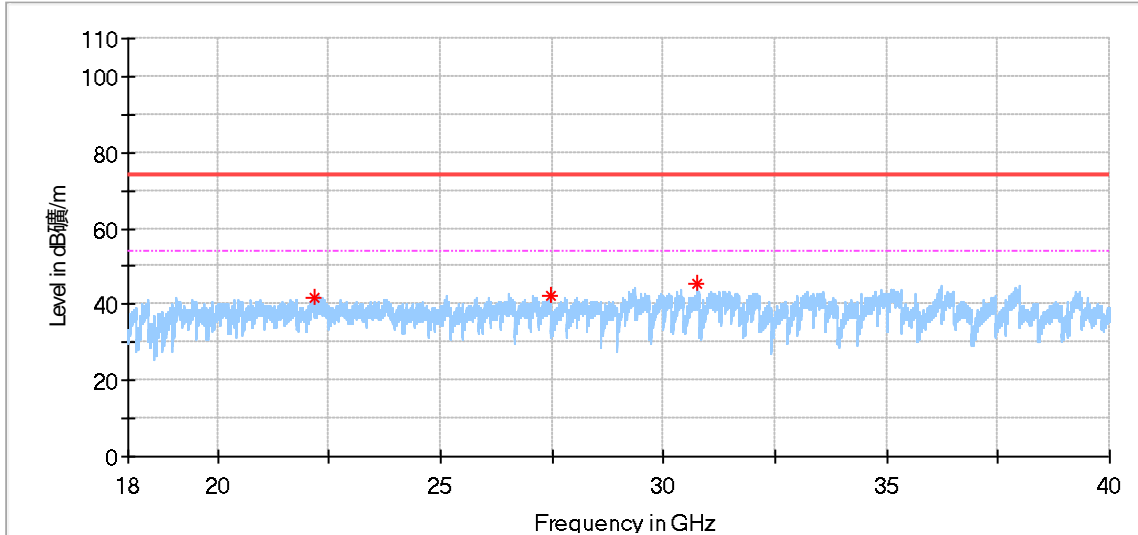
802.11A Modulation 5785MHz Test Result



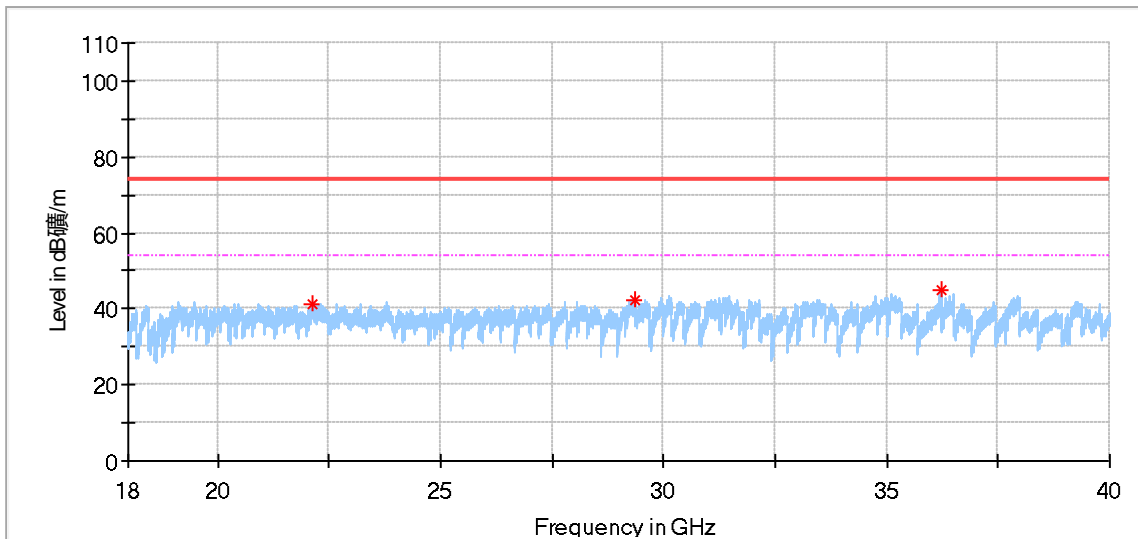
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1119.000000	43.46	74.00	30.54	150.0	H	8.0	-13.3
2843.000000	44.59	74.00	29.41	150.0	H	114.0	-4.8
4613.500000	48.69	74.00	25.31	150.0	H	114.0	2.4
6900.000000	50.03	74.00	23.97	150.0	H	168.0	6.4
17849.500000	52.51	74.00	21.50	150.0	H	280.0	18.9



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1268.500000	45.62	74.00	28.38	150.0	V	346.0	-12.4
2393.000000	45.08	74.00	28.92	150.0	V	174.0	-6.8
3857.000000	48.24	74.00	25.76	150.0	V	134.0	0.1
6982.000000	51.69	74.00	22.31	150.0	V	301.0	6.9
17378.000000	52.02	74.00	21.98	150.0	V	286.0	18.0

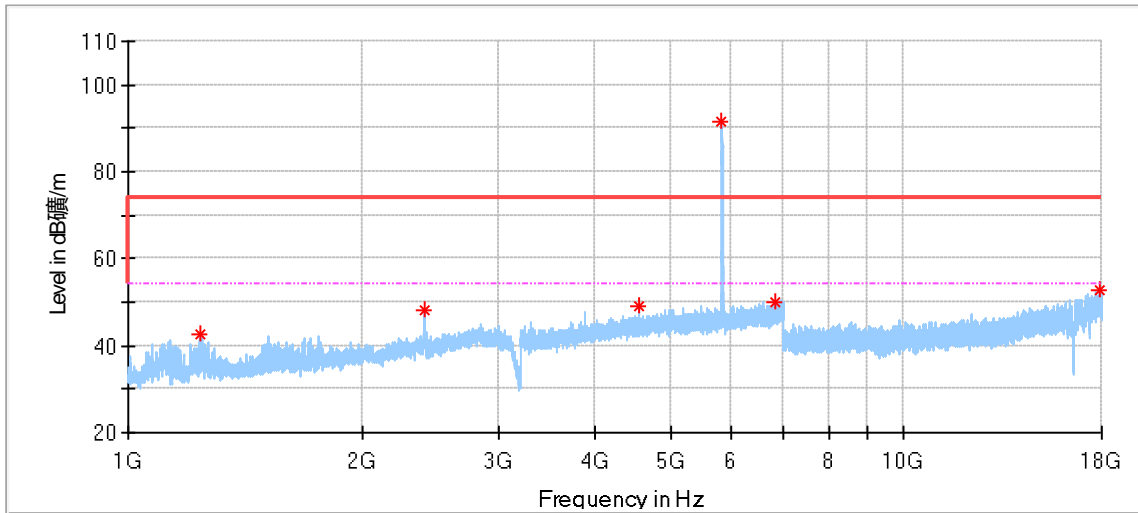


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22171.062500	41.63	74.00	32.37	---	---	154.0	H	353.0	0.4
27455.875000	42.07	74.00	31.93	---	---	154.0	H	35.0	1.8
30740.750000	45.52	74.00	28.48	---	---	154.0	H	0.0	2.4

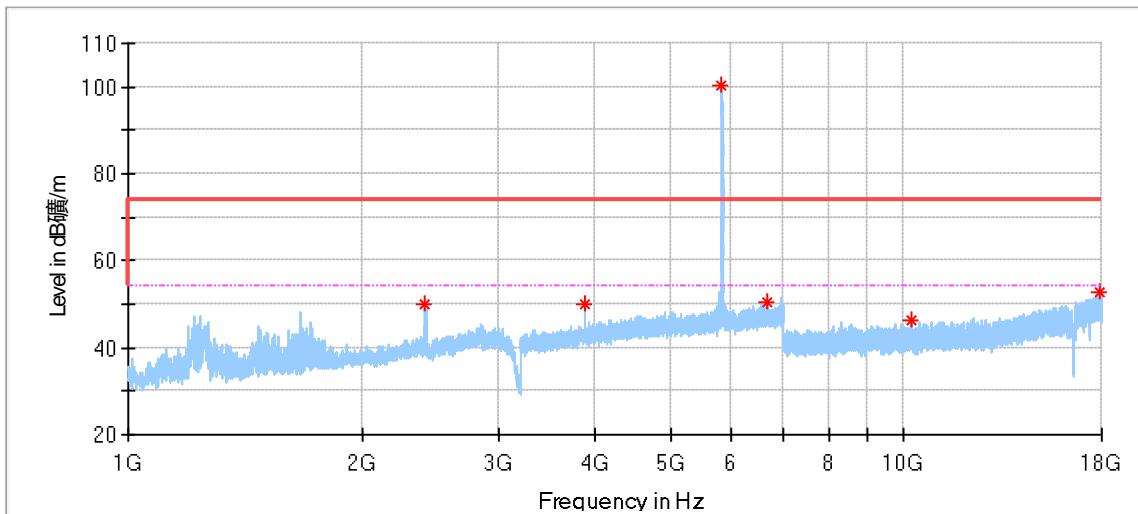


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22147.000000	41.50	74.00	32.50	---	---	154.0	V	156.0	0.3
29371.250000	42.42	74.00	31.58	---	---	154.0	V	230.0	1.5
36227.000000	44.93	74.00	29.07	---	---	154.0	V	83.0	4.1

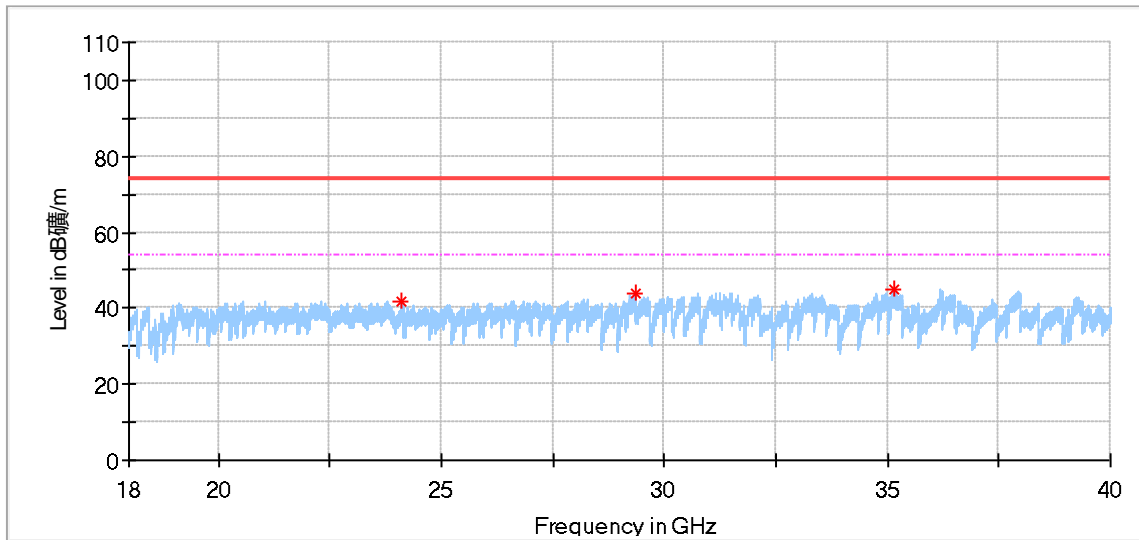
802.11A Modulation 5825MHz Test Result



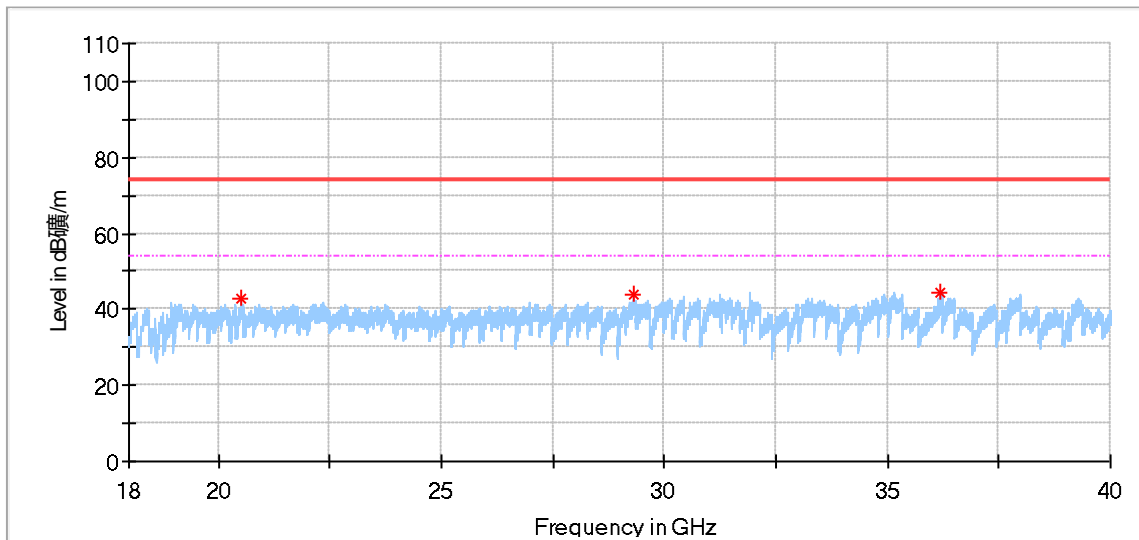
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1235.500000	42.44	74.00	31.56	150.0	H	34.0	-12.7
2414.000000	48.13	74.00	25.87	150.0	H	191.0	-6.7
4550.500000	49.06	74.00	24.94	150.0	H	331.0	2.6
6820.000000	49.92	74.00	24.08	150.0	H	284.0	6.3
17849.500000	52.97	74.00	21.03	150.0	H	105.0	18.9



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2417.000000	49.92	74.00	24.08	150.0	V	324.0	-6.7
3883.000000	50.07	74.00	23.93	150.0	V	231.0	0.1
6652.500000	50.51	74.00	23.49	150.0	V	263.0	6.2
10230.500000	46.08	74.00	27.92	150.0	V	234.0	8.0
17880.000000	52.60	74.00	21.40	150.0	V	115.0	19.3



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24111.187500	41.63	74.00	32.37	---	---	154.0	H	191.0	0.7
29364.375000	43.97	74.00	30.03	---	---	154.0	H	264.0	2.4
35164.125000	44.95	74.00	29.05	---	---	154.0	H	142.0	4.4



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20528.625000	42.88	74.00	31.12	---	---	154.0	V	358.0	-0.9
29309.375000	44.13	74.00	29.87	---	---	154.0	V	149.0	1.5
36200.875000	44.60	74.00	29.40	---	---	154.0	V	0.0	4.1