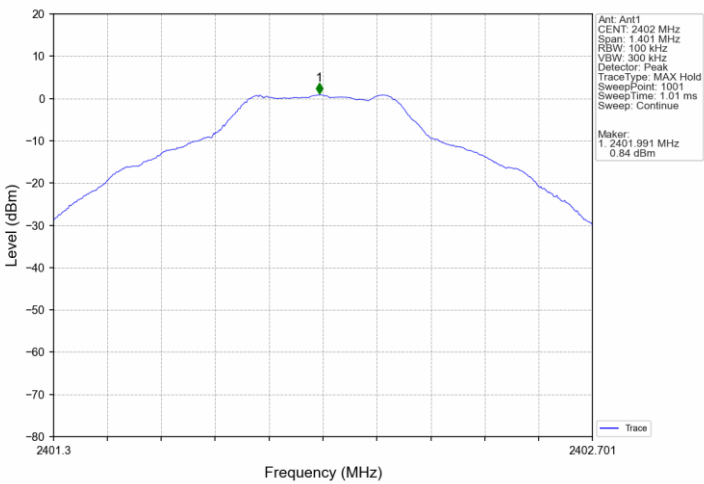
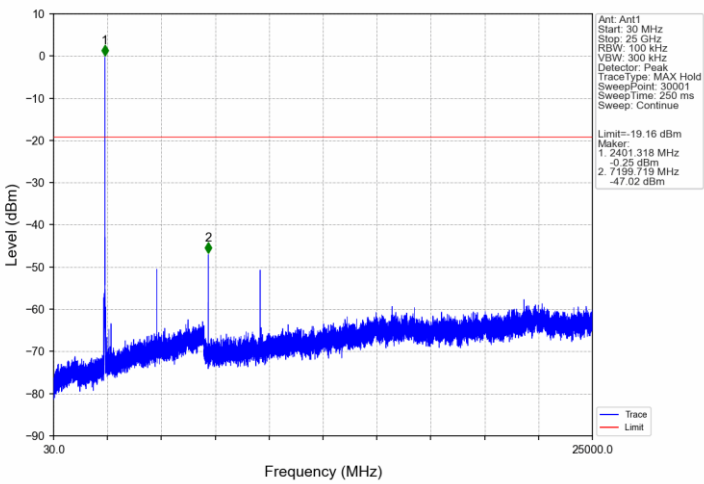


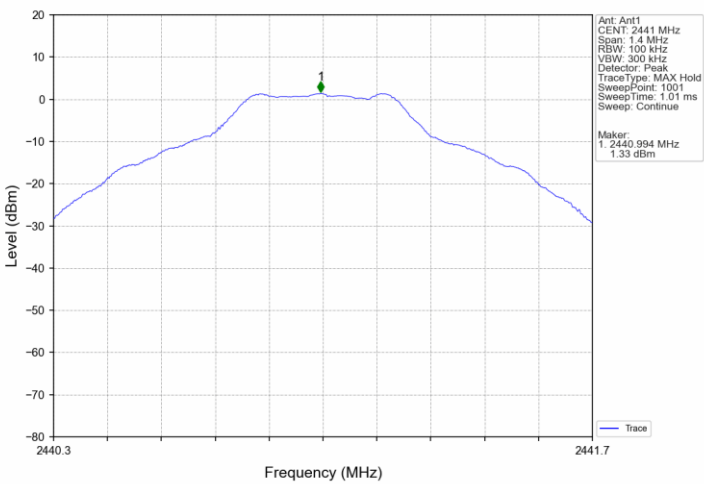
DH5_Ant1_2402_0~Reference



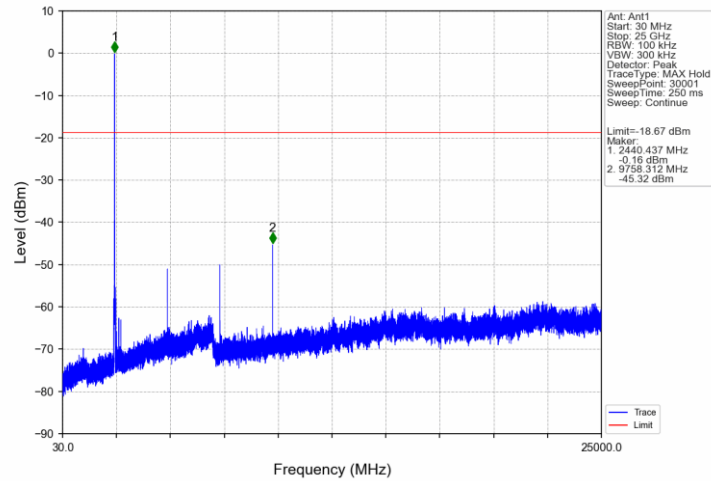
DH5_Ant1_2402_30~25000



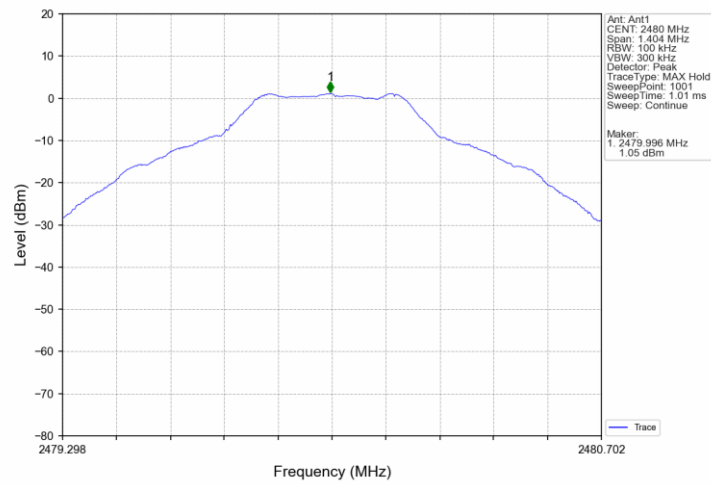
DH5_Ant1_2441_0~Reference



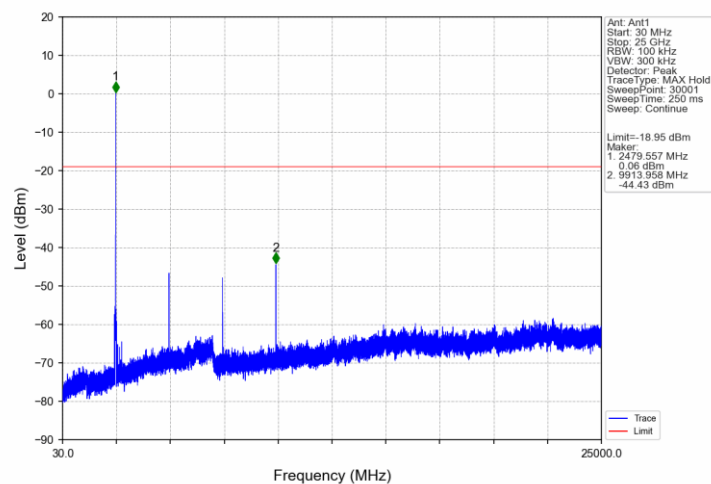
DH5_Ant1_2441_30~25000



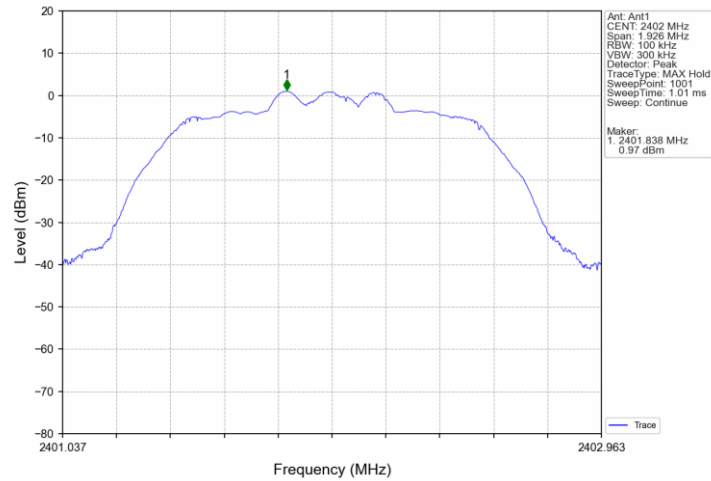
DH5_Ant1_2480_0~Reference



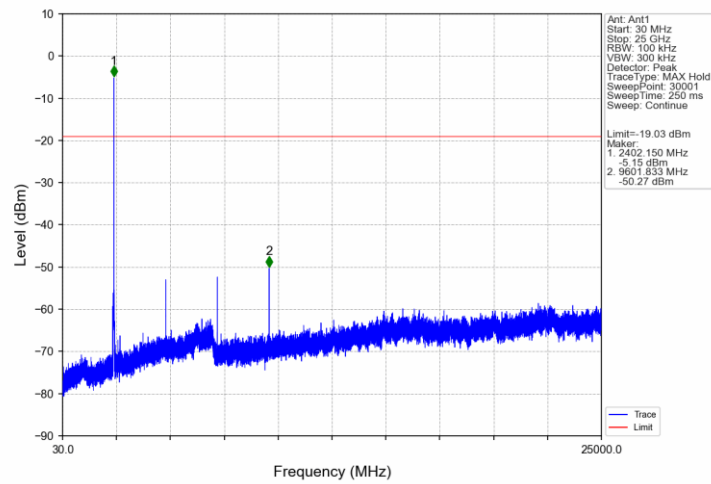
DH5_Ant1_2480_30~25000



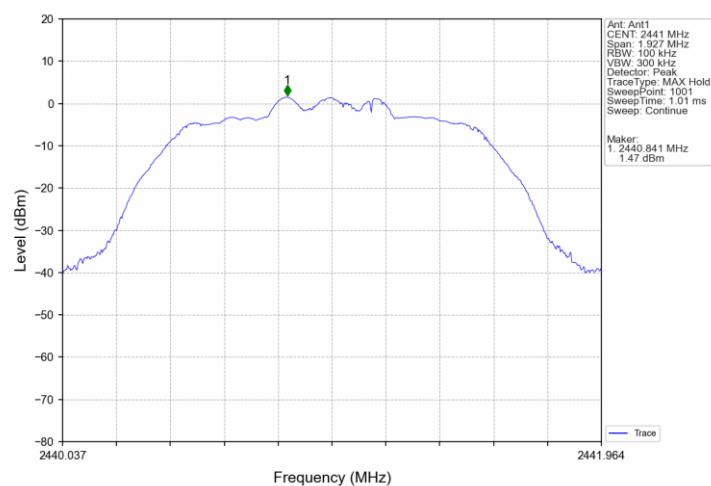
2DH5_Ant1_2402_0~Reference



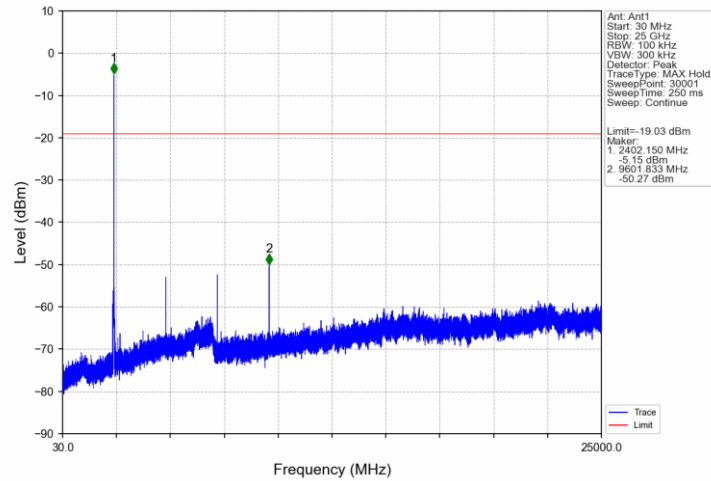
2DH5_Ant1_2402_30~25000



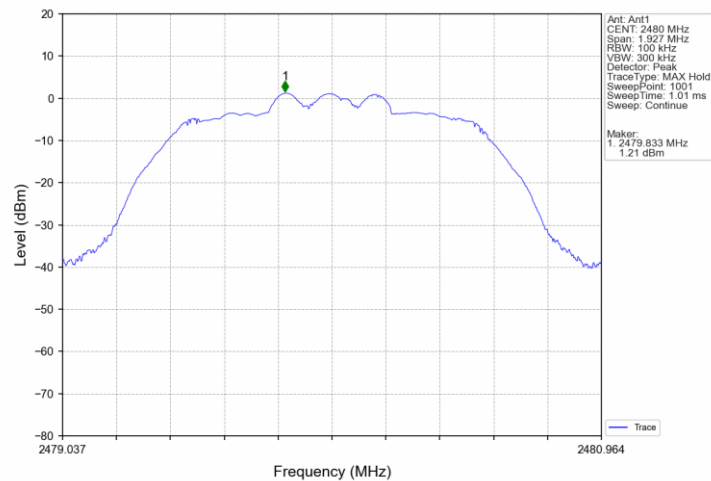
2DH5_Ant1_2441_0~Reference



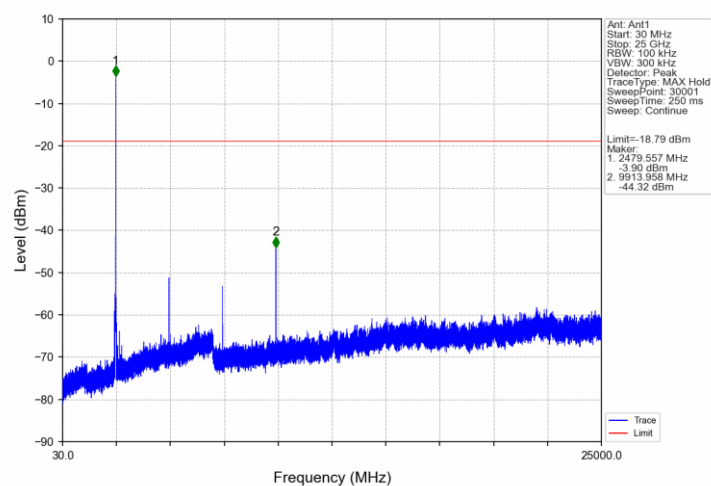
2DH5_Ant1_2441_30~25000



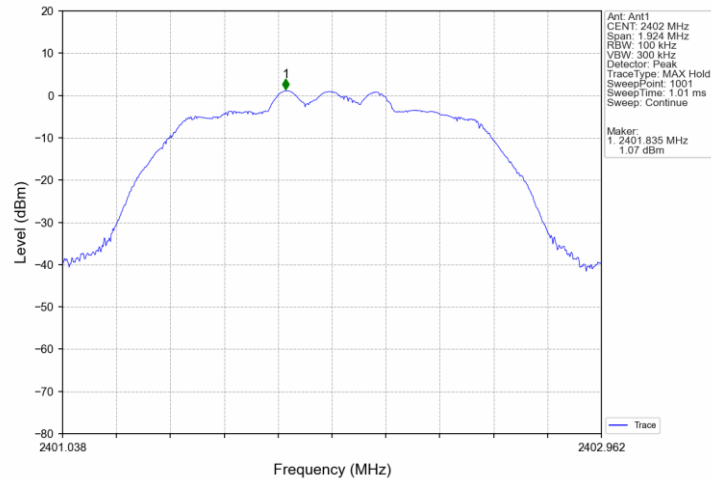
2DH5_Ant1_2480_0~Reference



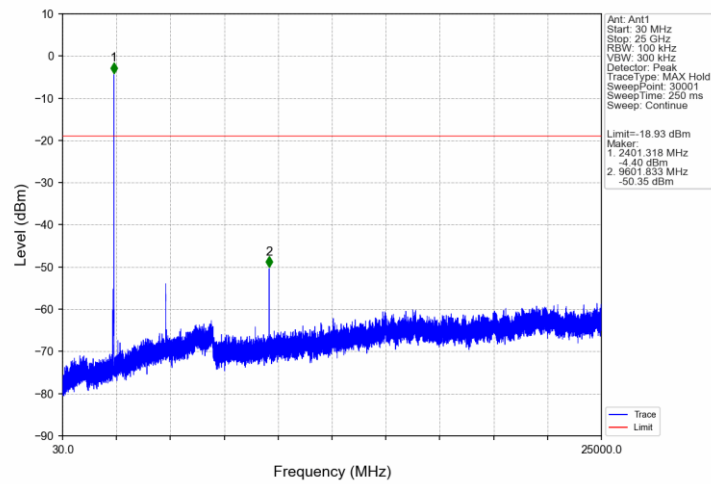
2DH5_Ant1_2480_30~25000



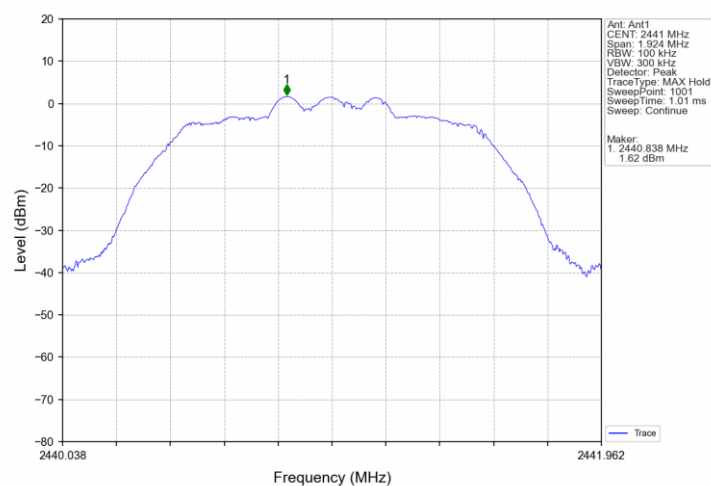
3DH5_Ant1_2402_0~Reference



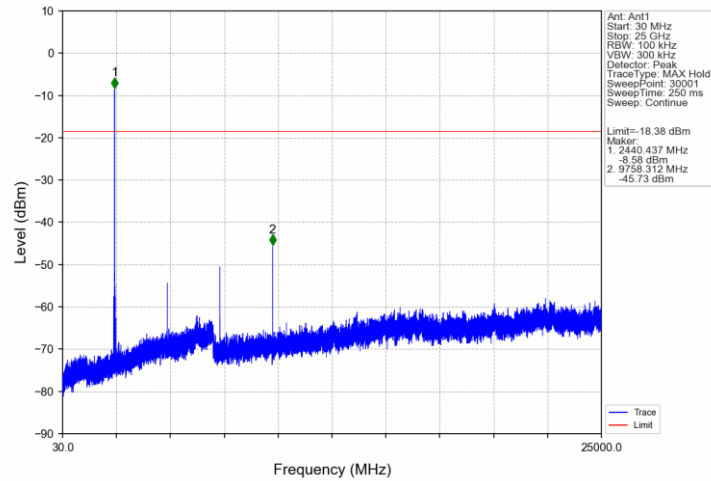
3DH5_Ant1_2402_30~25000



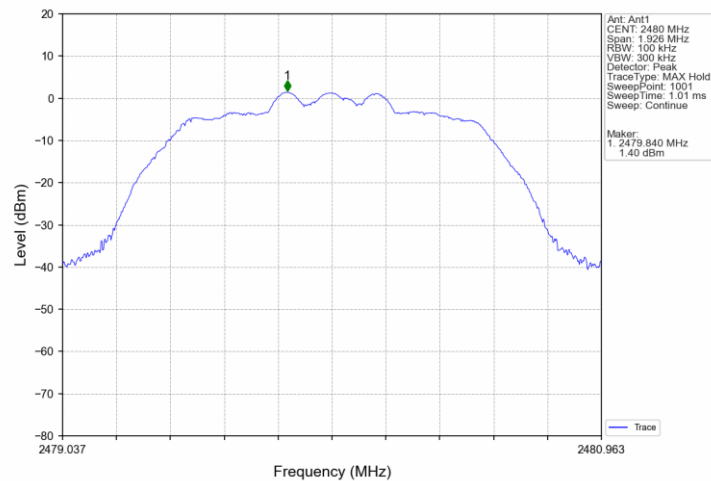
3DH5_Ant1_2441_0~Reference



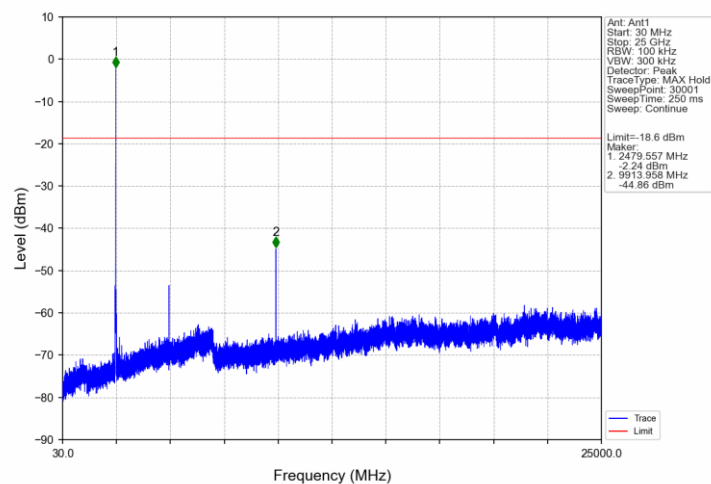
3DH5_Ant1_2441_30~25000



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~25000



9.8 Band Edge Testing

Test Method

1. 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 to the maximum power setting and enable the EUT transmit continuously. Set the EUT to the lowest frequency channel.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector, Trace: Max hold, Sweep time: Coupled, Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation. Allow the trace to stabilize.
4. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.
5. Set the EUT to the highest frequency channel and repeat step 2) to 4)
6. Enable the EUT hopping mode, repeat the test.

Limit:

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

Band Edge

Ref:

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.84
		2441	DH5	1	1.33
		2480	DH5	1	1.05
		HOPP	DH5	1	1.45
					1.45
Pi/4DQPSK	SISO	2402	2DH5	1	0.97
		2441	2DH5	1	1.47
		2480	2DH5	1	1.21
		HOPP	2DH5	1	1.56
					1.56
8DPSK	SISO	2402	3DH5	1	1.07
		2441	3DH5	1	1.62
		2480	3DH5	1	1.40
		HOPP	3DH5	1	1.72
					1.72

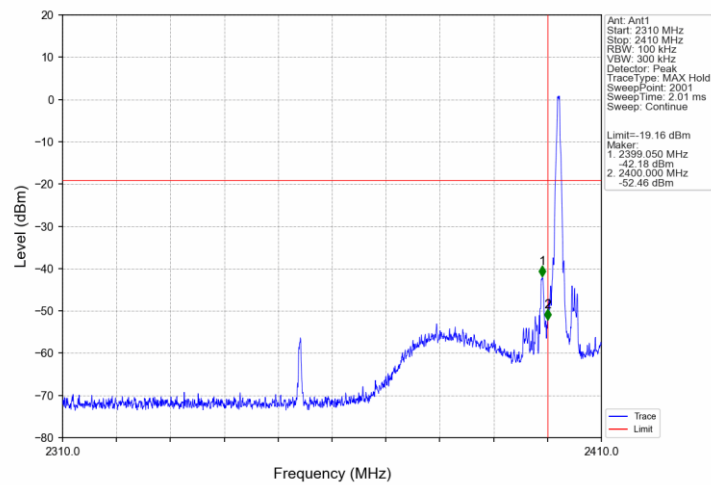
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

CSE:

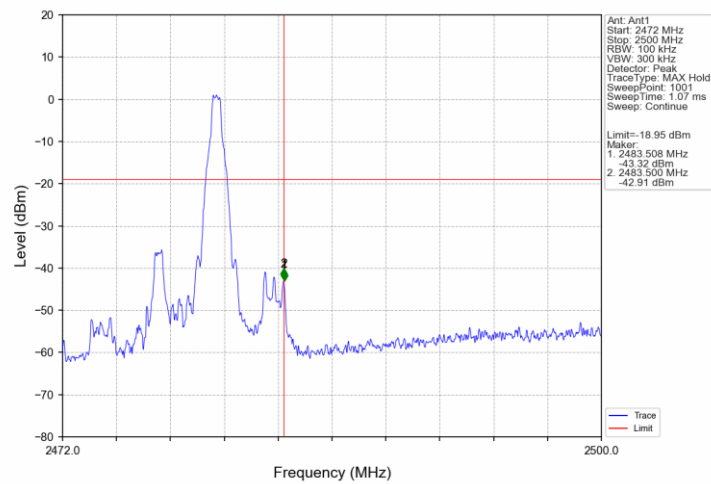
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.84	-19.16	Pass
		2441	DH5	1	1.33	-18.67	Pass
		2480	DH5	1	1.05	-18.95	Pass
		HOPP	DH5	1	1.45	-18.55	Pass
					1.45	-18.55	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.97	-19.03	Pass
		2441	2DH5	1	1.47	-18.53	Pass
		2480	2DH5	1	1.21	-18.79	Pass
		HOPP	2DH5	1	1.56	-18.44	Pass
					1.56	-18.44	Pass
8DPSK	SISO	2402	3DH5	1	1.07	-18.93	Pass
		2441	3DH5	1	1.62	-18.38	Pass
		2480	3DH5	1	1.40	-18.60	Pass
		HOPP	3DH5	1	1.72	-18.28	Pass
					1.72	-18.28	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

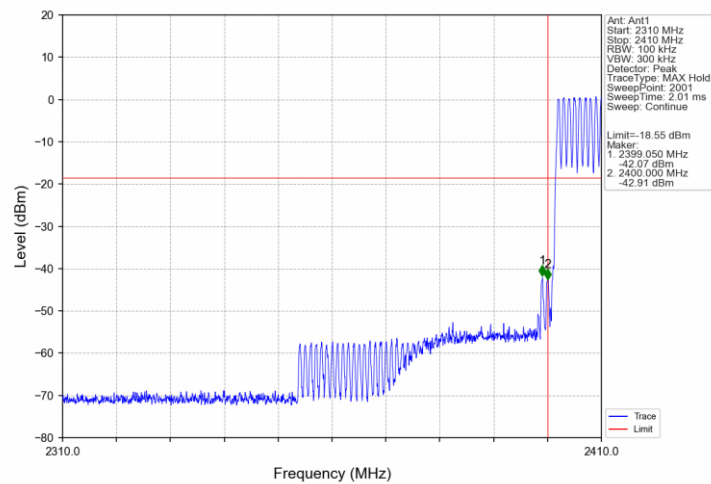
DH5_Ant1_Low_2402



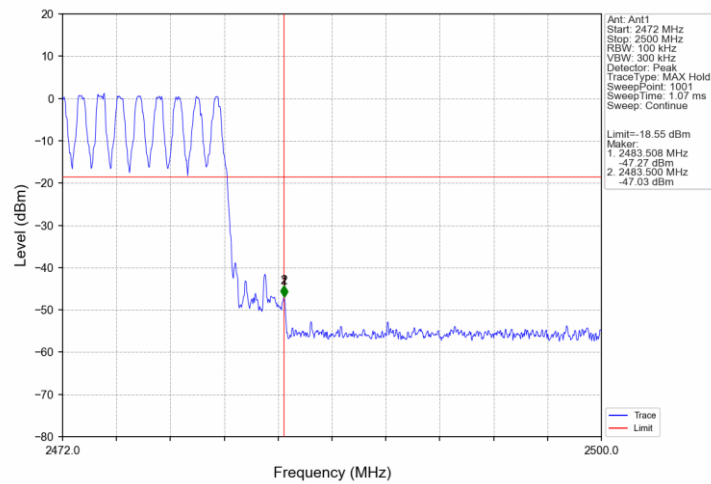
DH5_Ant1_High_2480



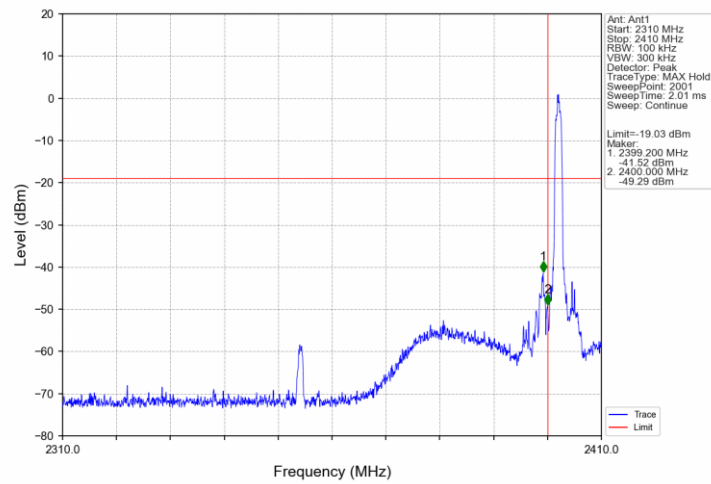
DH5_Ant1_Low_Hop_2402



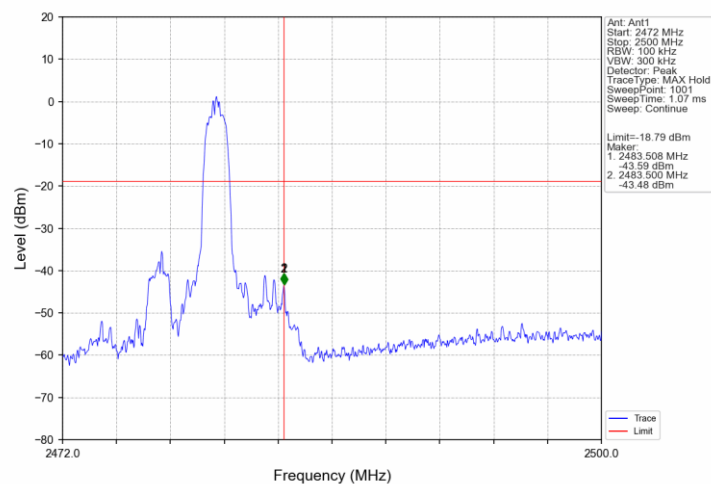
DH5_Ant1_High_Hop_2480



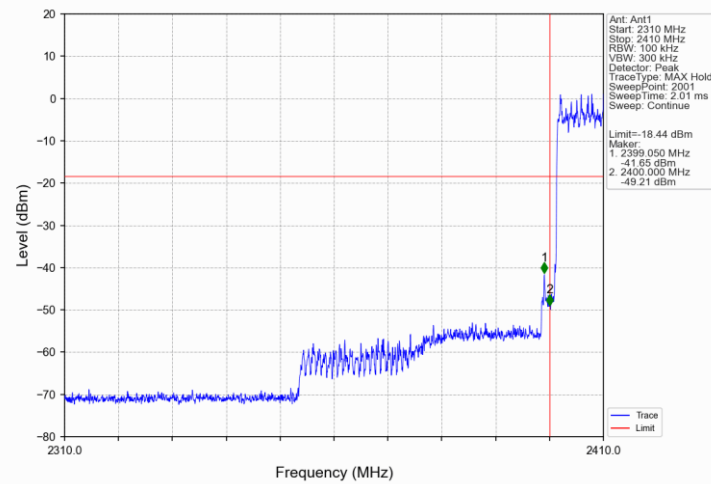
2DH5 Ant1 Low 2402



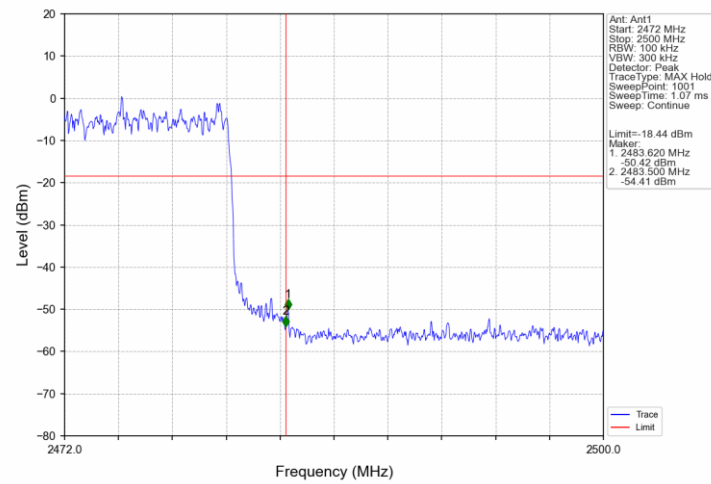
2DH5 Ant1 High 2480



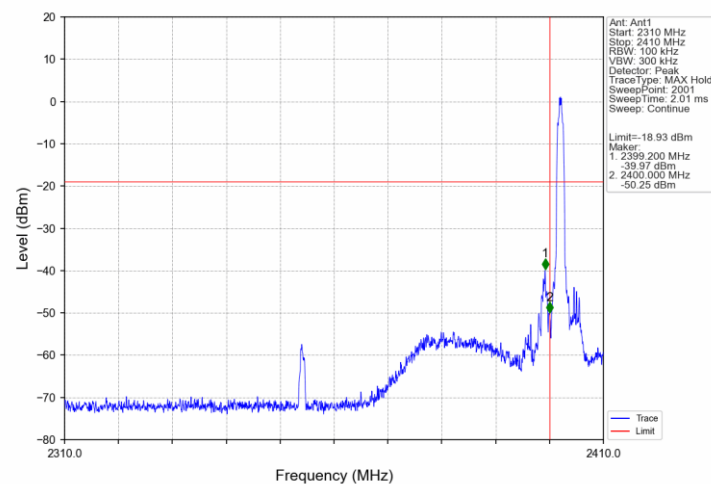
2DH5 Ant1 Low Hop 2402



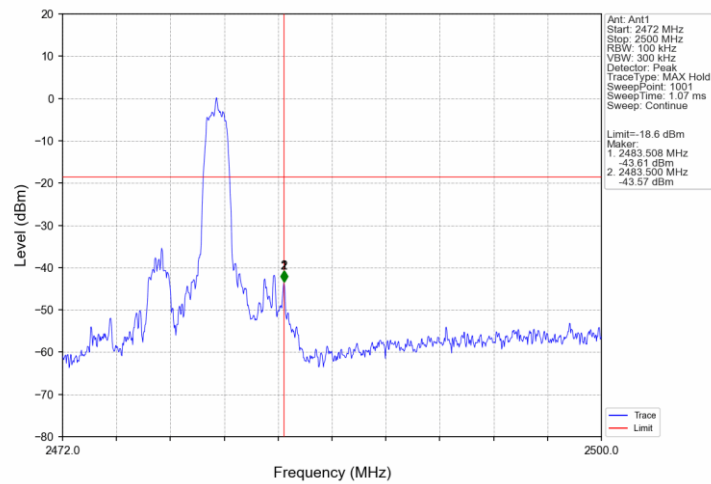
2DH5 Ant1 High Hop 2480



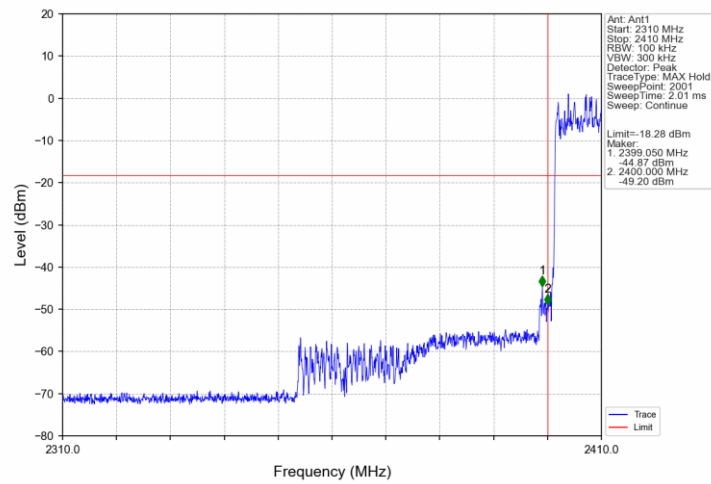
3DH5 Ant1 Low 2402



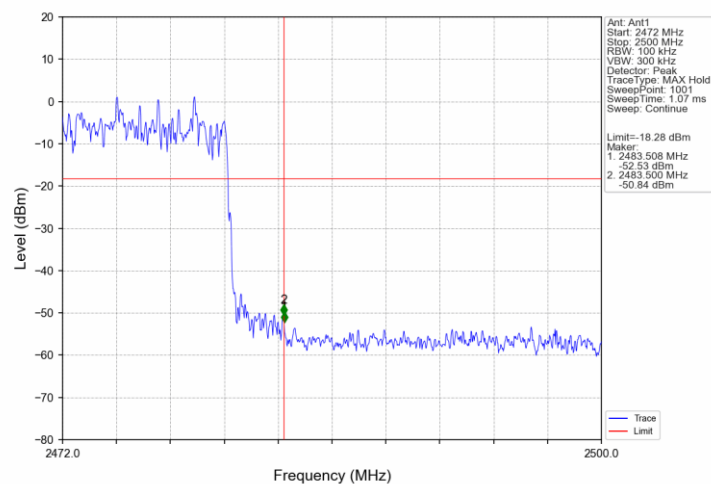
3DH5 Ant1 High 2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



9.9 Spurious Radiated Emissions for Transmitter

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 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
4. 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.
5. 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.
6. Use the following test receiver settings According to C63.10:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz to 120KHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = QP; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle $< 98\%$) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($20\log(1/\text{duty cycle})$).

The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle $> 98\%$) for Average detection (AV) at frequency above 1GHz.

7. Repeat above procedures until all frequencies measured were complete.

Spurious Radiated Emissions for Transmitter

Limit

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 & RSS-GEN 8.10, must comply with the radiated emission limits specified in section 15.209 & RSS-Gen 6.13.

RSS-Gen section 8.9 General field strength limits at frequencies below 30 MHz:

Frequency MHz	Magnetic field strength (H-Field) (μA/m)	Measurement distance
	μV/m	meters
0.009-0.490	6.37/F (F in kHz)	300
0.490-1.705	63.7/F (F in kHz)	30
1.705-30	0.08	30

When the limit is in terms of magnetic field, the following equation applies:

$$H[\text{dB}(\mu\text{A/m})] = V[\text{dB}(\mu\text{V})] + L_c [\text{dB}] - \text{GPA} [\text{dB}] + \text{AFE} [\text{dB(m-1)}] - 51.5 [\text{dB}\Omega]$$

When the limit is in terms of electric field, the following equation applies:

$$E[\text{dB}(\mu\text{V/m})] = V[\text{dB}(\mu\text{V})] + L_c [\text{dB}] - \text{GPA} [\text{dB}] + \text{AFE} [\text{dB(m-1)}]$$

The magnetic field limit is converted to the electric field limit by the equation:

$$E_{\text{limit}}[\text{dB}(\mu\text{V/m})] = H_{\text{limit}} [\text{dB}(\mu\text{A/m})] + 51.5 [\text{dB}\Omega]$$

where

H is the magnetic field strength (to be compared with the limit),

V is the voltage level measured by the receiver or spectrum analyzer.

L_c is the cable loss.

GPA is the gain of the preamplifier (if used), and AFH is the magnetic antenna factor.

FCC&ISED Limit:

Frequency MHz	Field Strength μV/m	Field Strength dBμV/m	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit 3m(dBμV/m)=Limit 300m(dBμV/m)+40Log(300m/3m) (Below 30MHz)

Note 2: Limit 3m(dBμV/m)=Limit 30m(dBμV/m)+40Log(30m/3m) (Below 30MHz)

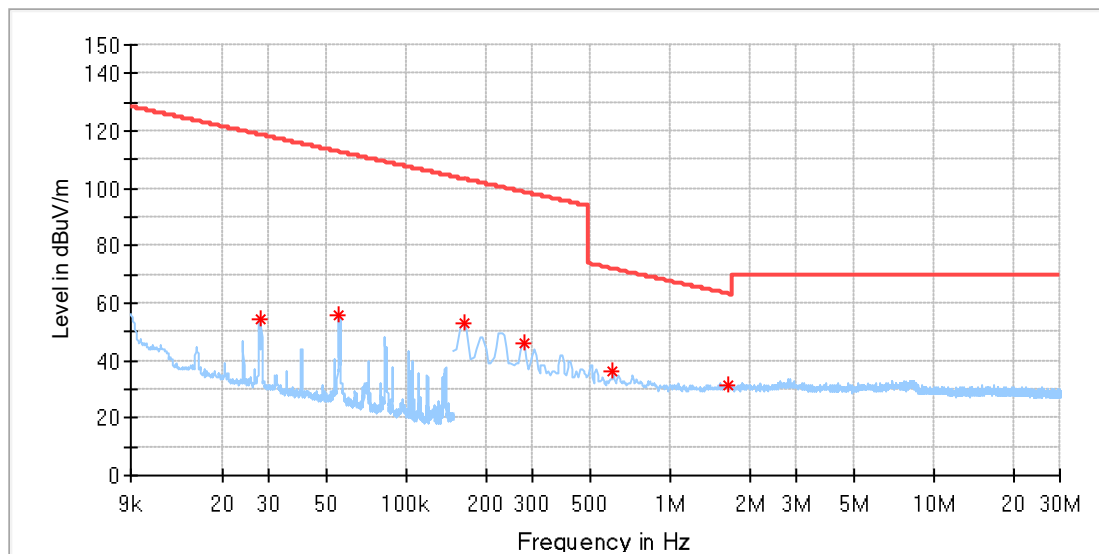
Spurious radiated emissions for transmitter

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.

The only worse case test result is listed in the report.

Transmitting spurious emission test result as below:

9KHz to 30MHz:

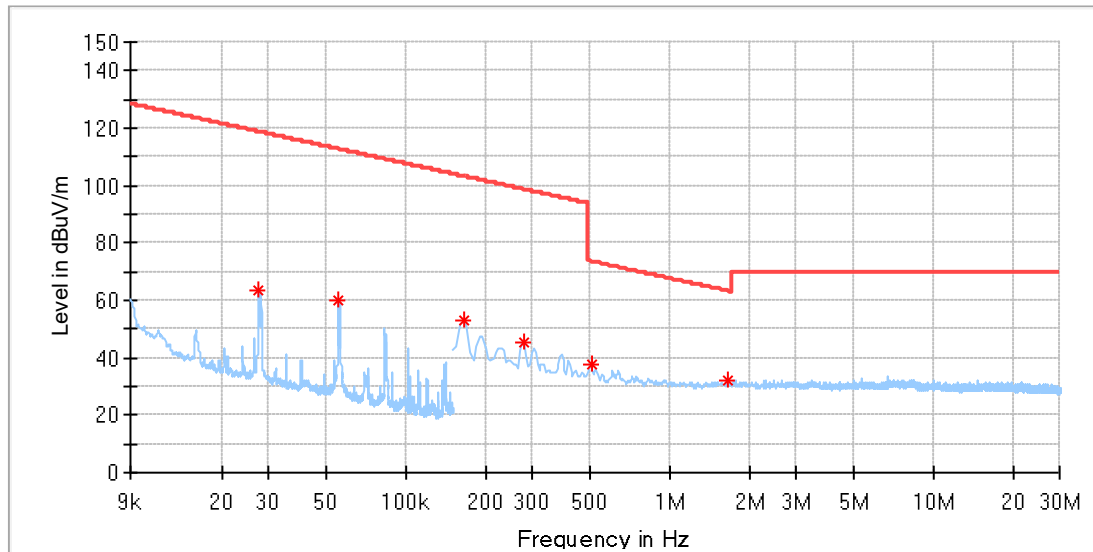


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.028035	54.54	118.64	64.09	H	0.0	19.88
0.055295	56.03	112.74	56.70	H	187.0	19.92
0.164925	53.06	103.25	50.20	H	34.0	19.89
0.279350	46.21	98.68	52.47	H	191.0	19.90
0.607700	36.31	71.94	35.63	H	220.0	19.91
1.652450	31.54	63.27	31.73	H	92.0	20.01

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---		---	---



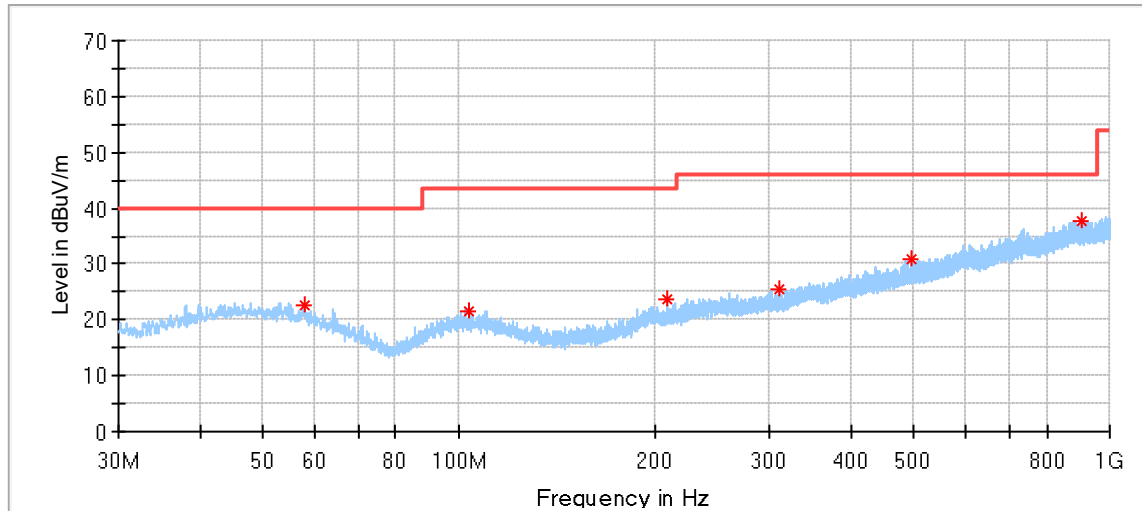
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027659	63.74	118.75	55.01	V	0.0	19.88
0.055295	59.71	112.74	53.03	V	221.0	19.92
0.164925	52.72	103.25	50.53	V	25.0	19.89
0.279350	45.37	98.68	53.30	V	358.0	19.90
0.503225	37.36	73.57	36.21	V	292.0	19.89
1.662400	32.00	63.22	31.22	V	302.0	20.02

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---		---	---

Test data_30MHz to 1000MHz:

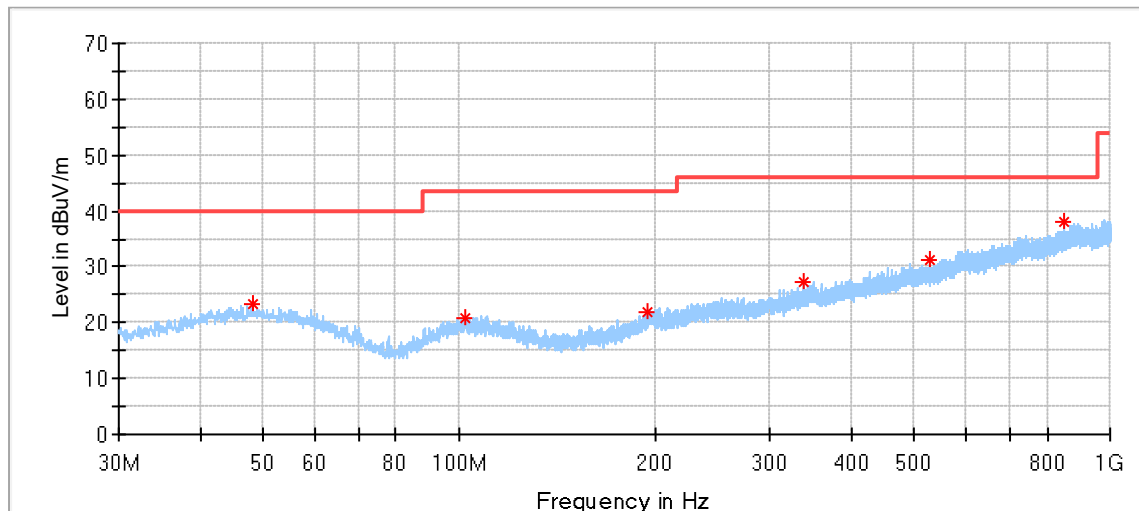


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.968333	22.63	40.00	17.37	200.0	H	12.0	17.10
103.935556	21.55	43.50	21.95	200.0	H	315.0	15.69
209.557778	23.72	43.50	19.78	200.0	H	336.0	15.76
310.815000	25.33	46.00	20.67	200.0	H	0.0	18.84
495.168889	30.84	46.00	15.16	200.0	H	353.0	22.95
906.502778	37.81	46.00	8.19	200.0	H	215.0	29.58

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



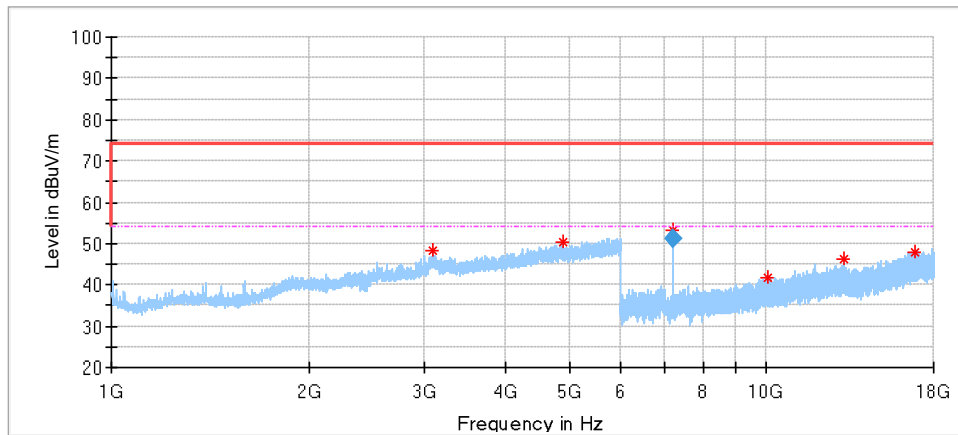
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.160556	23.41	40.00	16.59	200.0	V	14.0	18.20
102.157222	20.94	43.50	22.56	200.0	V	118.0	15.68
194.307222	22.02	43.50	21.48	200.0	V	138.0	16.03
339.214444	27.21	46.00	18.79	200.0	V	23.0	19.87
528.795556	31.29	46.00	14.71	200.0	V	150.0	23.37
847.602222	37.92	46.00	8.08	200.0	V	228.0	28.94

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test data 1GHz to 18GHz:
DH5_Low Channel:

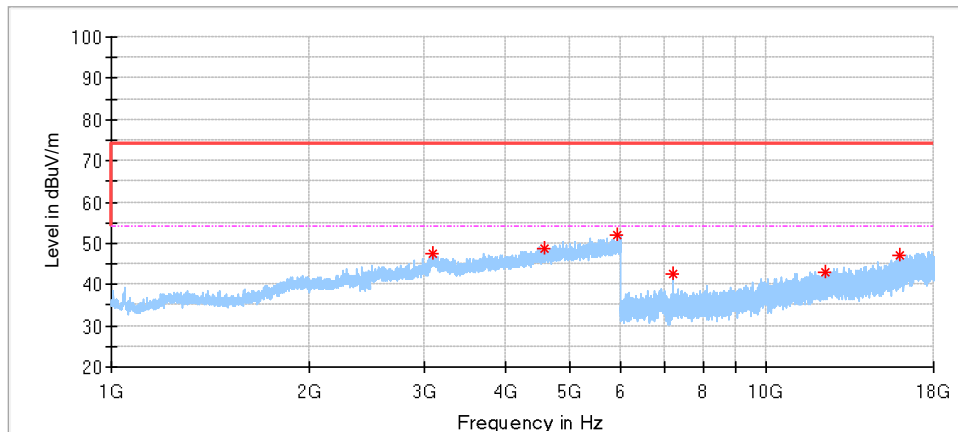


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3103.500000	48.41	74.00	25.59	150.0	H	48.0	2.65
4880.500000	50.26	74.00	23.74	150.0	H	252.0	5.97
7200.000000	53.30	74.00	20.70	150.0	H	0.0	8.92
10021.000000	41.65	74.00	32.35	150.0	H	81.0	13.07
13108.500000	46.24	74.00	27.76	150.0	H	252.0	16.55
16858.500000	47.96	74.00	26.04	150.0	H	154.0	23.77

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7200.000000	51.36	54.00	2.64	150.0	H	0.0	8.92



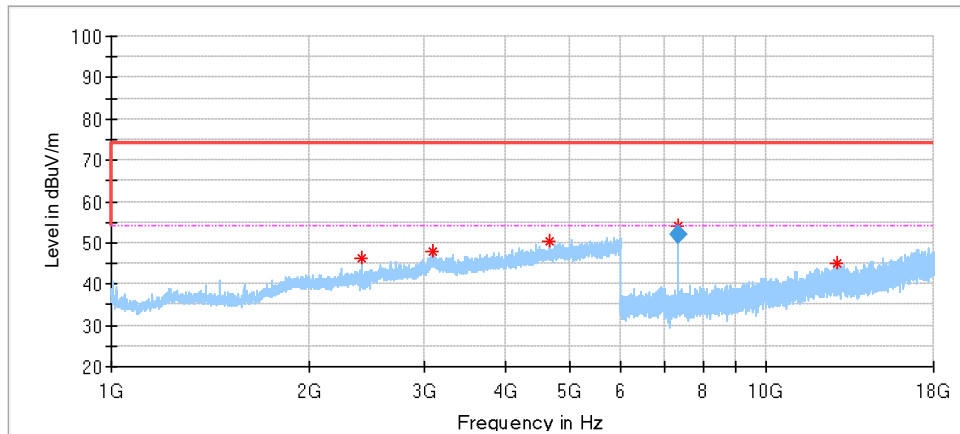
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3092.500000	47.52	74.00	26.48	150.0	V	84.0	2.57
4571.000000	48.68	74.00	25.32	150.0	V	60.0	5.11
5923.500000	52.04	74.00	21.96	150.0	V	96.0	8.10
7200.000000	42.49	74.00	31.51	150.0	V	81.0	8.92
12270.500000	43.18	74.00	30.82	150.0	V	325.0	16.61
15989.500000	46.95	74.00	27.05	150.0	V	301.0	21.09

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

DH5_Middle Channel:

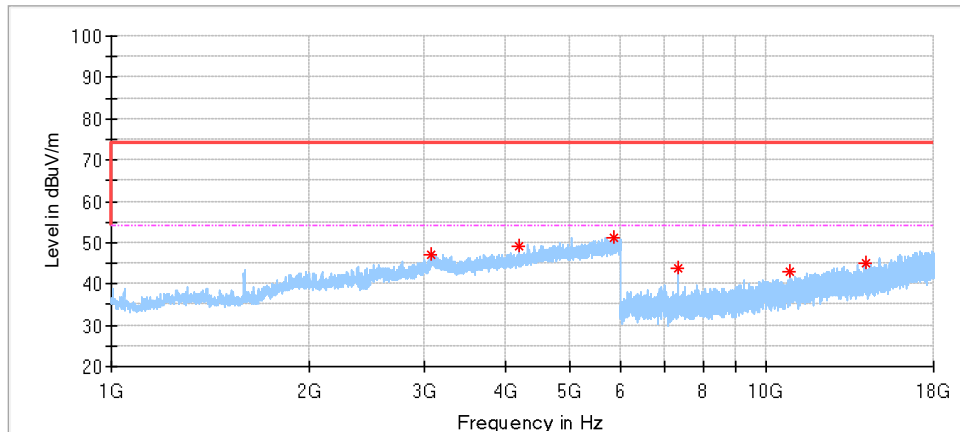


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2406.000000	46.28	74.00	27.72	150.0	H	23.0	-1.24
3086.500000	47.75	74.00	26.25	150.0	H	47.0	2.42
4678.000000	50.25	74.00	23.75	150.0	H	167.0	5.28
7317.000000	53.99	74.00	20.01	150.0	H	351.0	9.61
12862.000000	45.08	74.00	28.92	150.0	H	255.0	16.59

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7317.000000	52.06	54.00	1.94	150.0	H	351.0	9.61



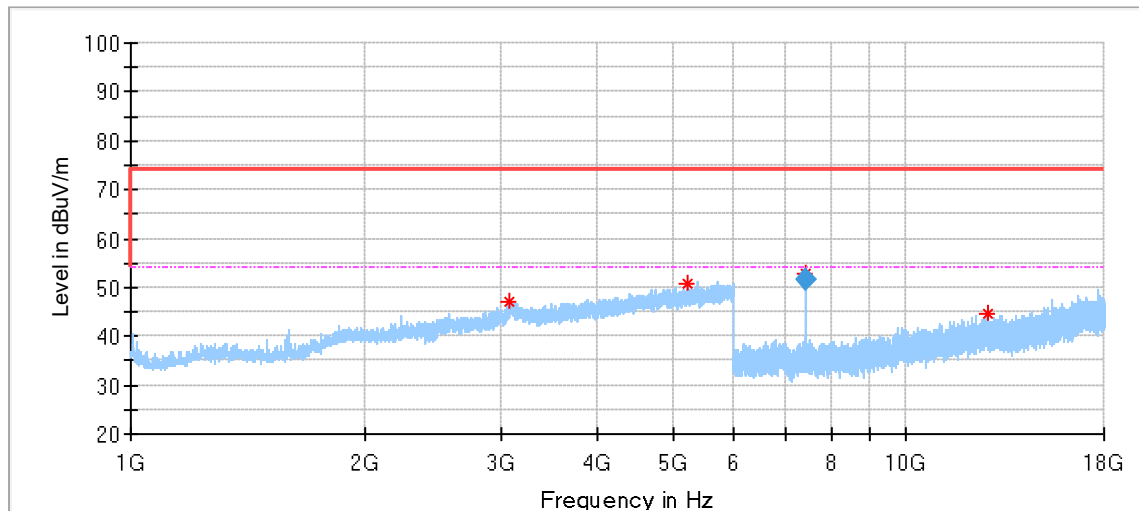
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3073.000000	47.15	74.00	26.85	150.0	V	24.0	2.02
4183.500000	48.99	74.00	25.01	150.0	V	72.0	3.40
5846.000000	51.32	74.00	22.68	150.0	V	48.0	7.67
7317.500000	43.88	74.00	30.12	150.0	V	328.0	9.61
10888.000000	43.02	74.00	30.98	150.0	V	351.0	13.69
14212.000000	45.15	74.00	28.85	150.0	V	108.0	17.09

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

DH5_Hight Channel:

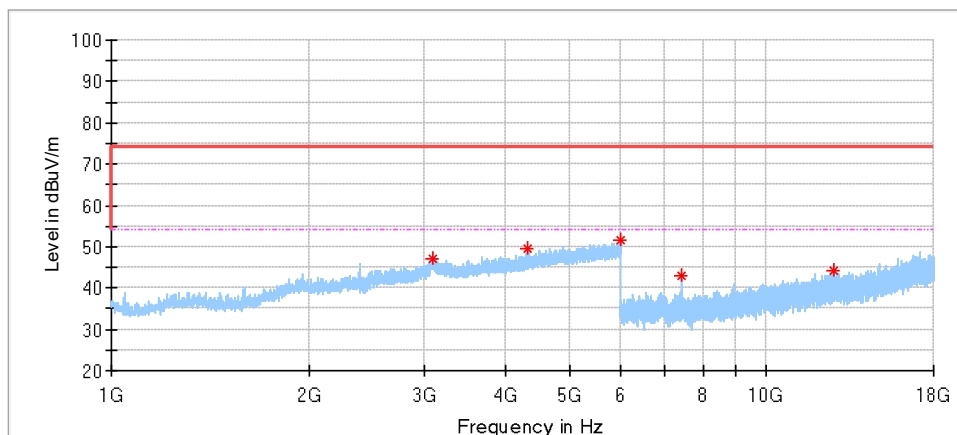


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3075.000000	47.08	74.00	26.92	150.0	H	324.0	2.09
5222.500000	50.95	74.00	23.05	150.0	H	81.0	6.42
7434.000000	52.65	74.00	21.35	150.0	H	350.0	9.58
12730.000000	44.45	74.00	29.55	150.0	H	180.0	16.56

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7434.000000	51.69	54.00	2.31	150.0	H	350.0	9.58



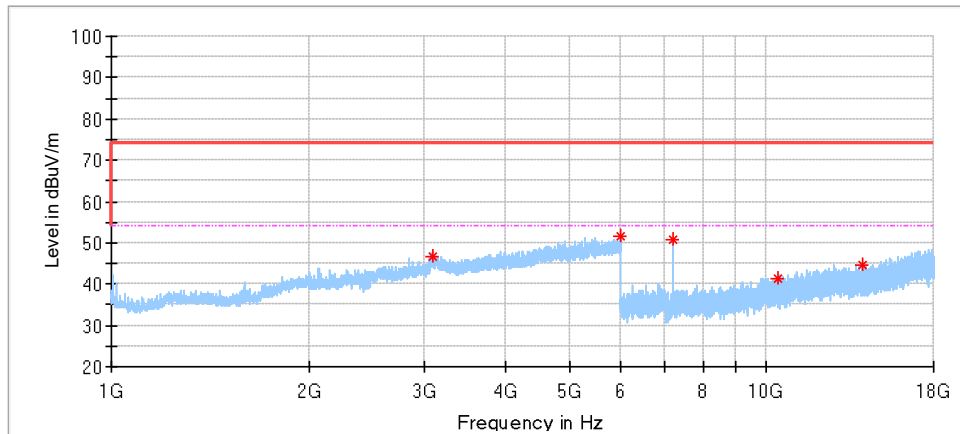
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3102.500000	47.04	74.00	26.96	150.0	V	0.0	2.69
4311.000000	49.40	74.00	24.60	150.0	V	347.0	4.11
5983.000000	51.68	74.00	22.32	150.0	V	12.0	8.43
7434.000000	42.78	74.00	31.22	150.0	V	280.0	9.58
12698.000000	44.33	74.00	29.67	150.0	V	134.0	16.54

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

3DH5_Low Channel:

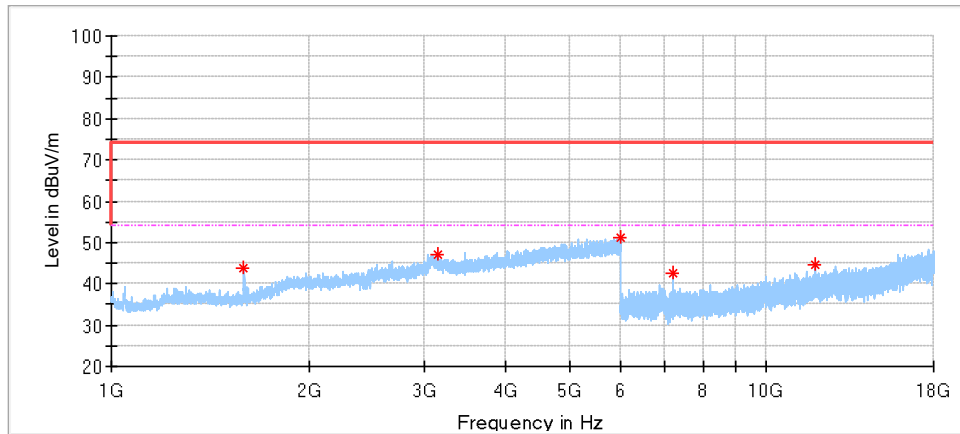


Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3098.000000	46.86	74.00	27.14	150.0	H	179.0	2.72
5983.500000	51.59	74.00	22.41	150.0	H	131.0	8.44
7200.000000	50.84	74.00	23.16	150.0	H	31.0	8.92
10390.500000	41.19	74.00	32.81	150.0	H	181.0	13.36
14019.000000	44.79	74.00	29.21	150.0	H	328.0	17.10

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



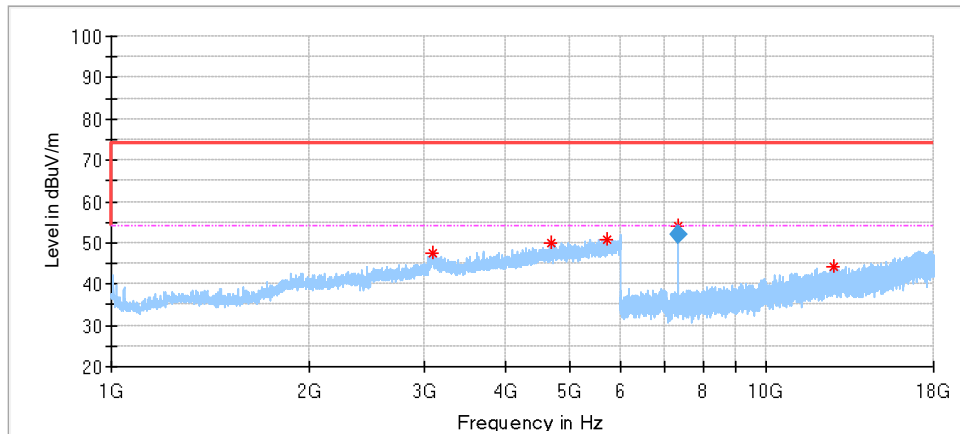
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1594.000000	43.73	74.00	30.27	150.0	V	144.0	-7.15
3155.000000	46.96	74.00	27.04	150.0	V	276.0	1.48
5998.000000	51.34	74.00	22.66	150.0	V	216.0	8.52
7200.000000	42.74	74.00	31.26	150.0	V	276.0	8.92
11885.000000	44.72	74.00	29.28	150.0	V	301.0	16.49

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

3DH5_Middle Channel:

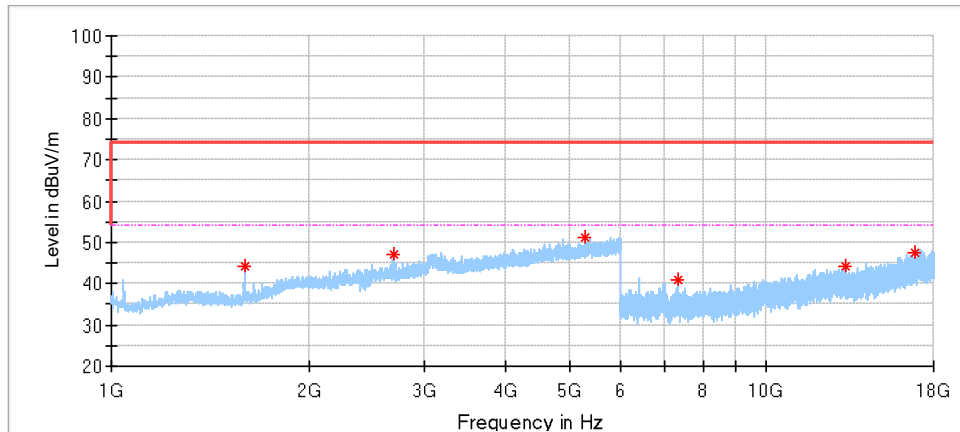


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3095.000000	47.56	74.00	26.44	150.0	H	225.0	2.64
4699.500000	49.92	74.00	24.08	150.0	H	70.0	5.40
5706.000000	50.76	74.00	23.24	150.0	H	201.0	7.53
7317.000000	53.90	74.00	20.10	150.0	H	0.0	9.61
12689.000000	44.17	74.00	29.83	150.0	H	179.0	16.52

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7317.000000	52.03	54.00	1.97	150.0	H	0.0	9.61



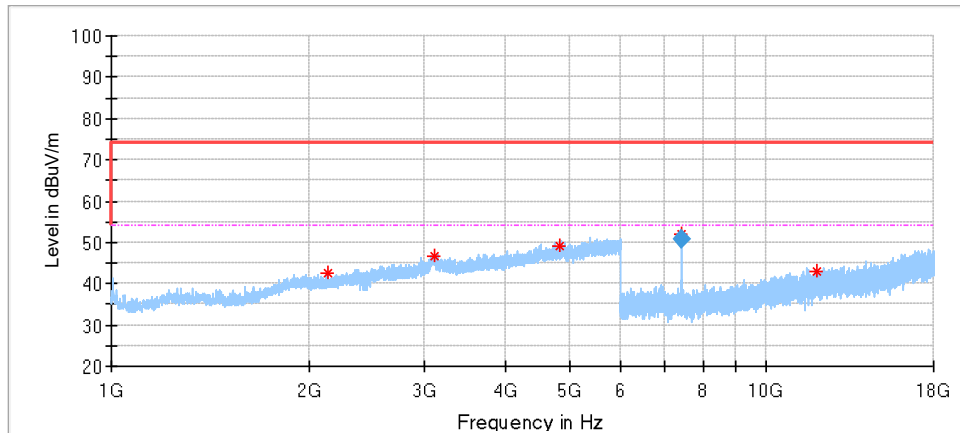
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1596.000000	44.30	74.00	29.70	150.0	V	156.0	-7.12
2692.000000	47.25	74.00	26.75	150.0	V	228.0	-0.77
5279.500000	51.15	74.00	22.85	150.0	V	96.0	6.58
7317.500000	40.86	74.00	33.14	150.0	V	352.0	9.61
13203.000000	44.06	74.00	29.94	150.0	V	207.0	16.41
16893.000000	47.33	74.00	26.67	150.0	V	31.0	23.92

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

3DH5_Hight Channel:

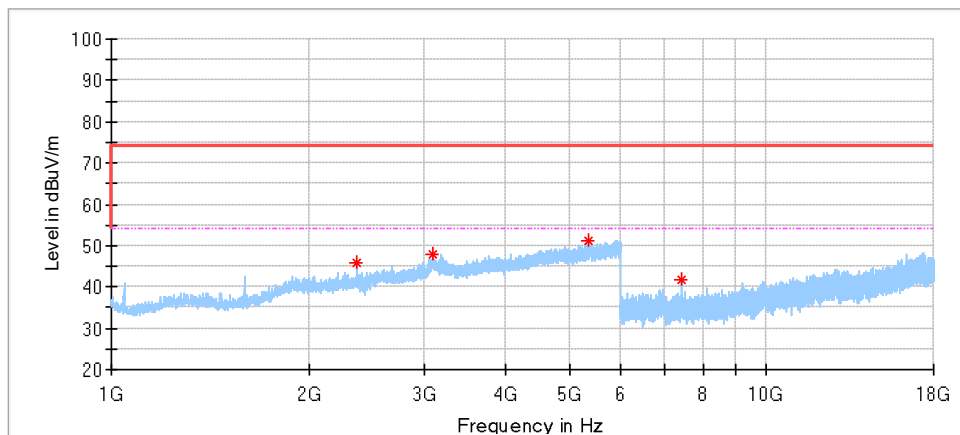


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2138.000000	42.61	74.00	31.39	150.0	H	334.0	-2.76
3115.500000	46.65	74.00	27.35	150.0	H	250.0	2.31
4837.500000	49.06	74.00	24.94	150.0	H	310.0	5.83
7434.000000	52.00	74.00	22.00	150.0	H	352.0	9.58
11922.500000	43.13	74.00	30.87	150.0	H	183.0	16.64

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7434.000000	50.97	54.00	3.03	150.0	H	352.0	9.58



Critical_Freqs

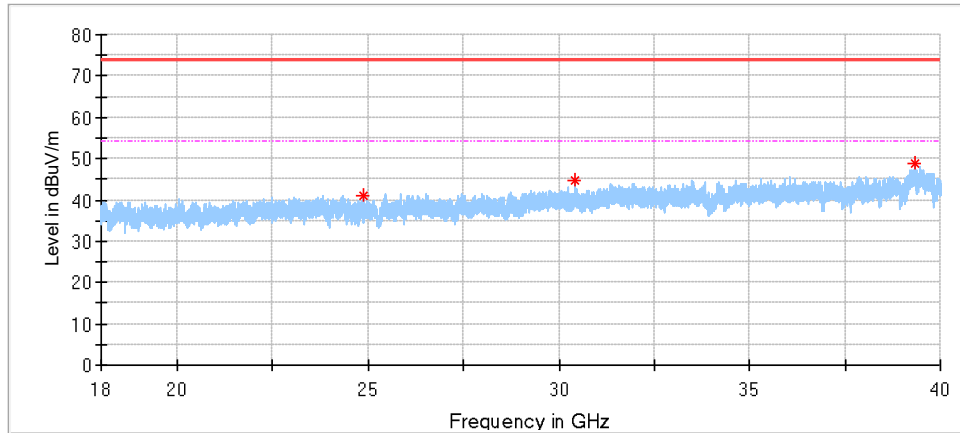
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2370.000000	45.67	74.00	28.33	150.0	V	176.0	-1.72
3099.500000	47.99	74.00	26.01	150.0	V	32.0	2.76
5359.500000	51.19	74.00	22.81	150.0	V	56.0	7.09
7434.000000	41.83	74.00	32.17	150.0	V	203.0	9.58

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test data 18GHz to 40GHz:

DH5_Low Channel:

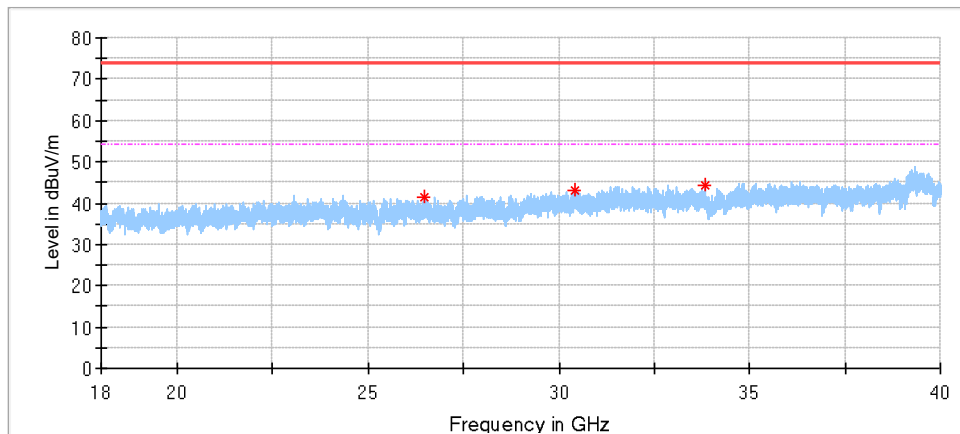


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
24864.000000	40.93	74.00	33.07	150.0	H	167.0	-0.29	---
30438.250000	44.90	74.00	29.10	150.0	H	234.0	0.97	---
39324.875000	48.98	74.00	25.02	150.0	H	124.0	5.17	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
---	---	---	---	---		---	---	---



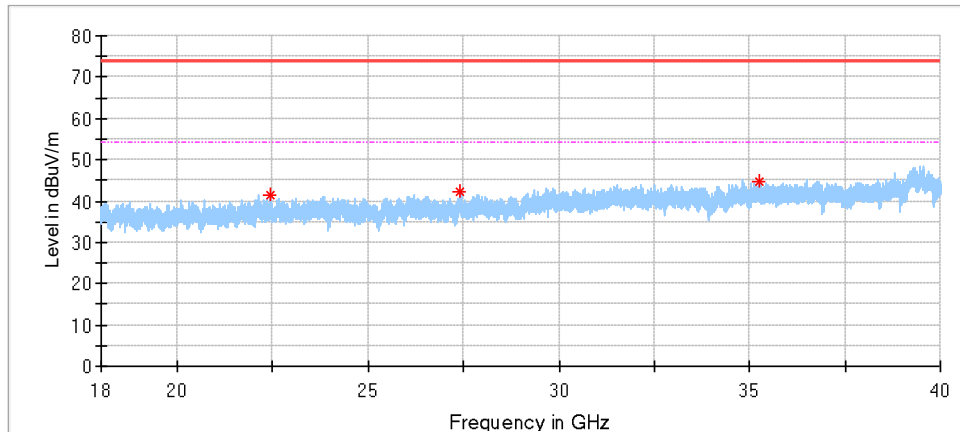
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
26453.500000	41.36	74.00	32.64	150.0	V	138.0	1.20
30417.625000	42.93	74.00	31.07	150.0	V	4.0	0.96
33829.687500	44.29	74.00	29.71	150.0	V	138.0	0.81

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

DH5_Middle Channel:

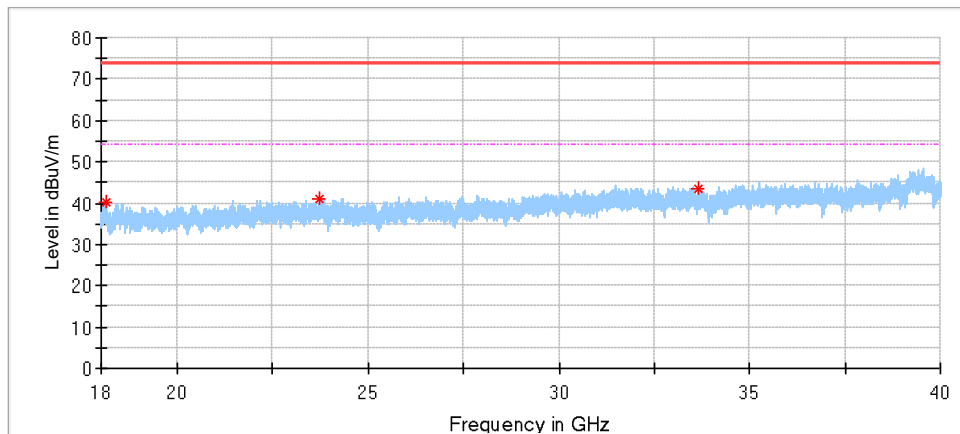


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
22432.312500	41.47	74.00	32.53	150.0	H	271.0	-0.92	---
27421.500000	42.44	74.00	31.56	150.0	H	1.0	0.93	---
35269.312500	44.60	74.00	29.40	150.0	H	138.0	2.23	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
---	---	---	---	---		---	---	---



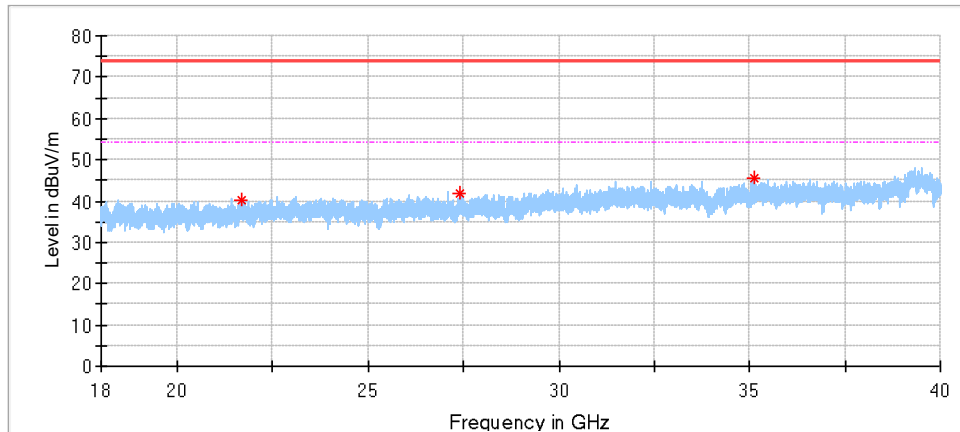
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18113.437500	40.10	74.00	33.90	150.0	V	352.0	-4.75
23735.812500	41.05	74.00	32.95	150.0	V	138.0	-0.21
33658.500000	43.48	74.00	30.52	150.0	V	272.0	0.97

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

DH5_High Channel:

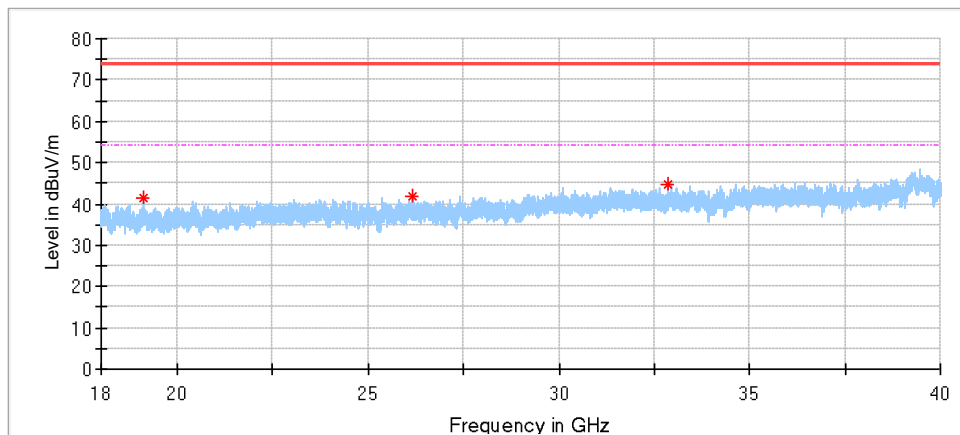


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21681.562500	40.31	74.00	33.69	150.0	H	32.0	-1.77
27409.125000	41.87	74.00	32.13	150.0	H	179.0	0.88
35105.687500	45.43	74.00	28.57	150.0	H	59.0	2.23

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



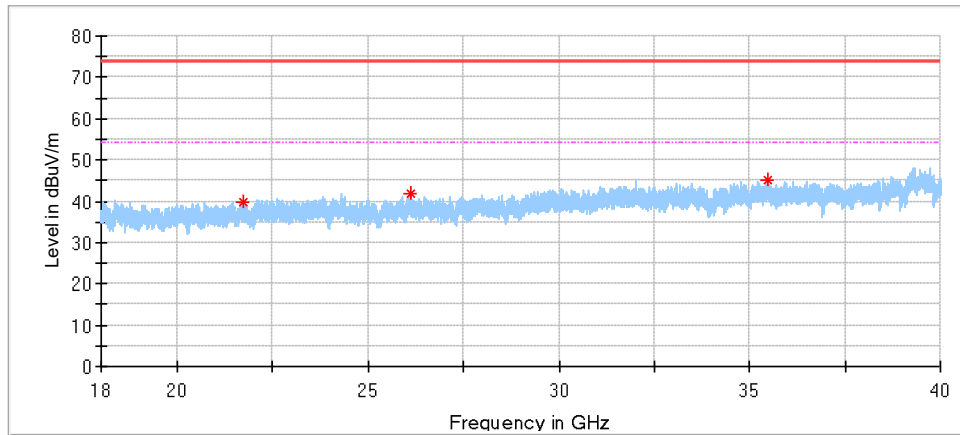
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19122.687500	41.50	74.00	32.51	150.0	V	154.0	-4.34
26171.625000	41.91	74.00	32.09	150.0	V	45.0	0.80
32867.187500	44.87	74.00	29.13	150.0	V	315.0	1.06

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

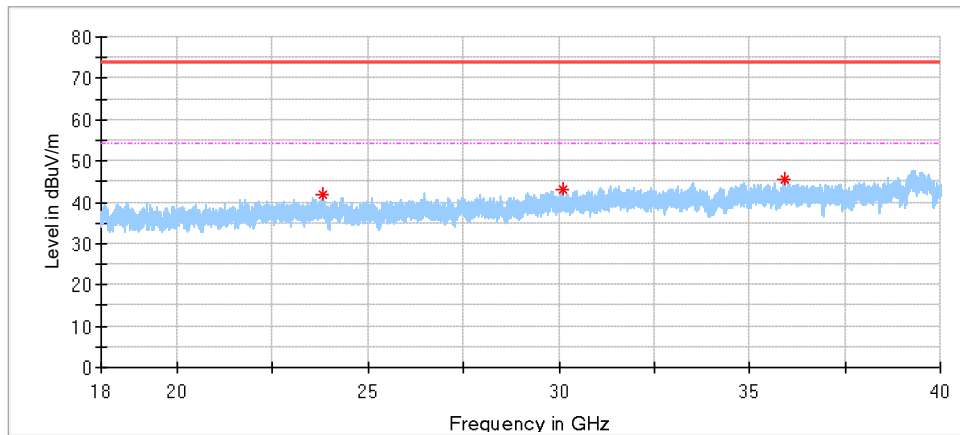
3DH5_Low Channel:

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21706.312500	39.92	74.00	34.08	150.0	H	289.0	-1.75
26096.687500	41.77	74.00	32.23	150.0	H	102.0	0.82
35465.937500	45.04	74.00	28.96	150.0	H	1.0	2.99

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

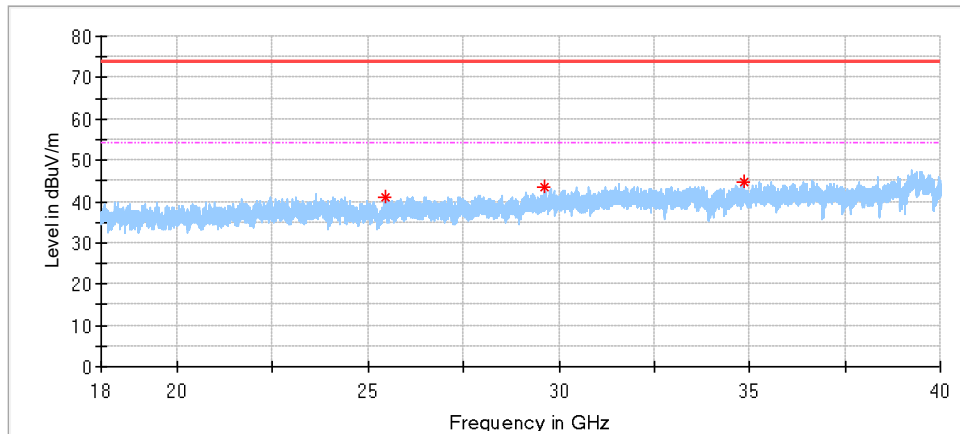
**Critical Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
23798.375000	41.92	74.00	32.08	150.0	V	232.0	-0.18
30099.312500	43.28	74.00	30.72	150.0	V	0.0	0.82
35907.312500	45.68	74.00	28.32	150.0	V	218.0	2.39

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

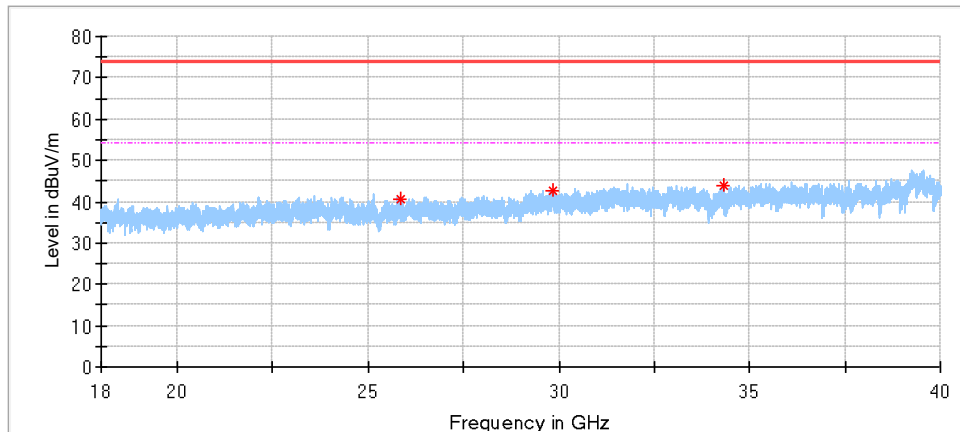
3DH5_Middle Channel:

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
25453.187500	41.01	74.00	32.99	150.0	H	208.0	0.45
29640.750000	43.48	74.00	30.52	150.0	H	182.0	0.67
34846.500000	44.74	74.00	29.26	150.0	H	45.0	1.88

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

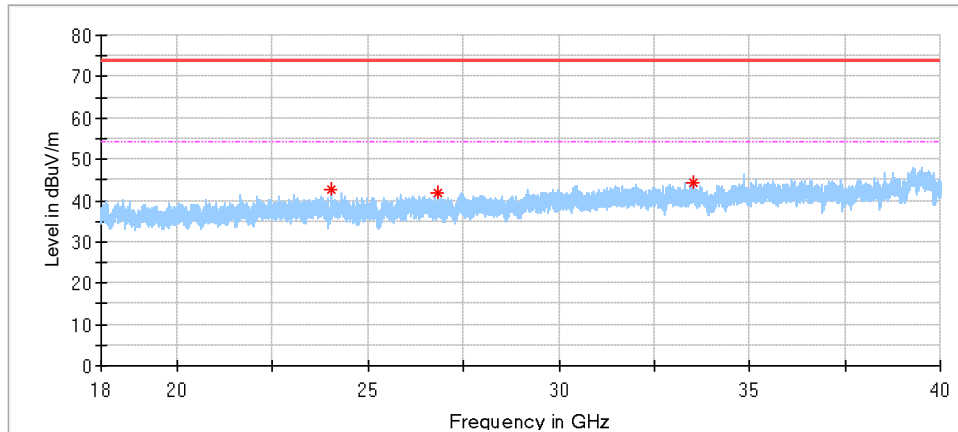
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
25852.625000	40.75	74.00	33.25	150.0	V	312.0	0.87
29842.187500	42.84	74.00	31.16	150.0	V	218.0	0.76
34335.687500	43.78	74.00	30.22	150.0	V	98.0	1.27

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

3DH5_High Channel:

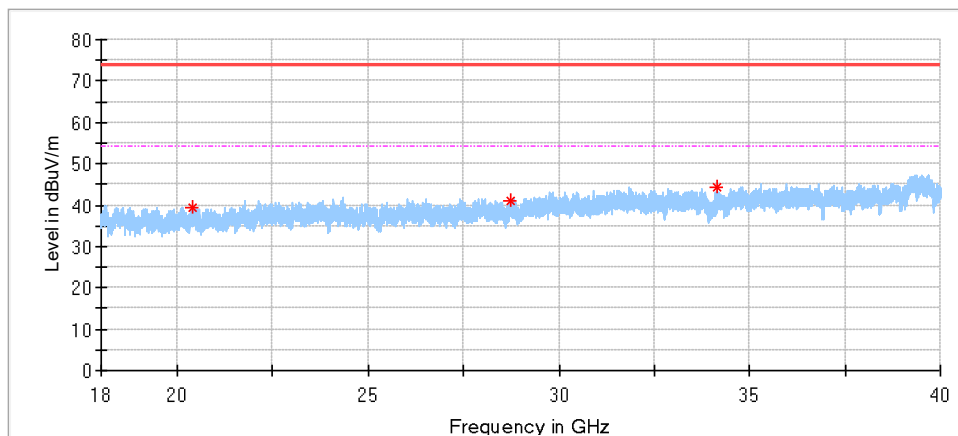


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
24044.500000	42.51	74.00	31.49	150.0	H	167.0	-0.20
26805.500000	41.98	74.00	32.02	150.0	H	84.0	0.89
33505.187500	44.16	74.00	29.84	150.0	H	194.0	0.62

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20374.625000	39.33	74.00	34.67	150.0	V	232.0	-3.21
28727.750000	41.22	74.00	32.78	150.0	V	178.0	0.23
34156.937500	44.35	74.00	29.65	150.0	V	98.0	0.62

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Remark:

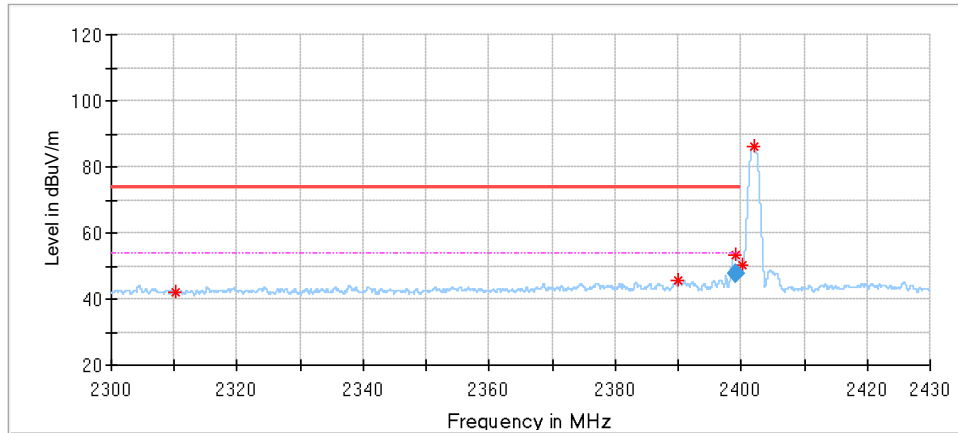
Corrected Amplitude = Read level + Corrector factor

Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain

Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

Restricted bands of operation. test result as below:

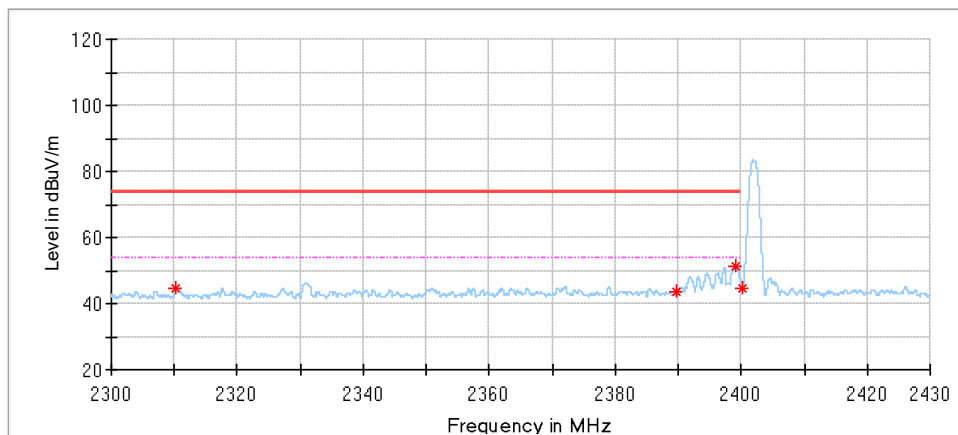
DH5_Low Channel:

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.101000	42.08	74.00	31.92	150.0	H	147.0	-2.19
2390.103000	45.78	74.00	28.22	150.0	H	208.0	-1.92
2399.229000	53.14	74.00	20.86	150.0	H	293.0	-1.77
2400.152000	50.11	---	---	150.0	H	293.0	-1.76
2402.076000	86.40	---	---	150.0	H	293.0	-1.73

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2399.229000	47.68	54.00	6.32	150.0	H	293.0	-1.77

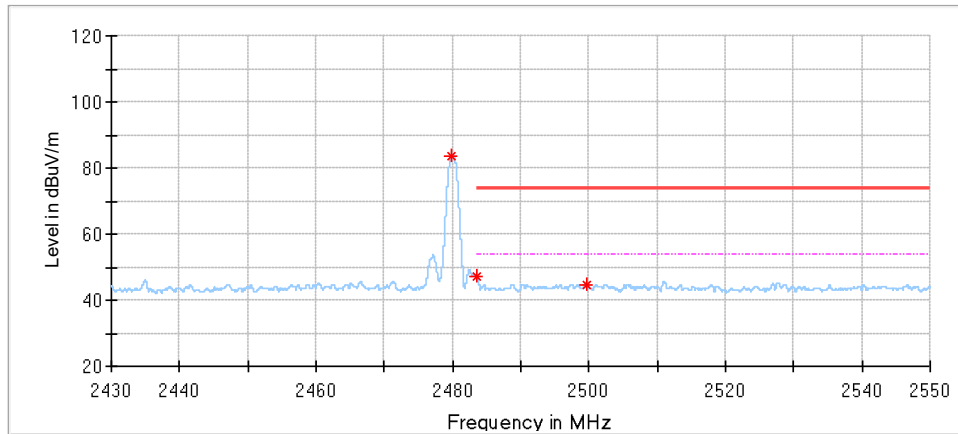
**Critical Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.335000	44.57	74.00	29.43	150.0	V	175.0	-2.19
2389.687000	43.84	74.00	30.16	150.0	V	199.0	-1.92
2399.151000	51.30	74.00	22.70	150.0	V	247.0	-1.77
2400.061000	44.50	---	---	150.0	V	187.0	-1.76

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

DH5_ Hight Channel:

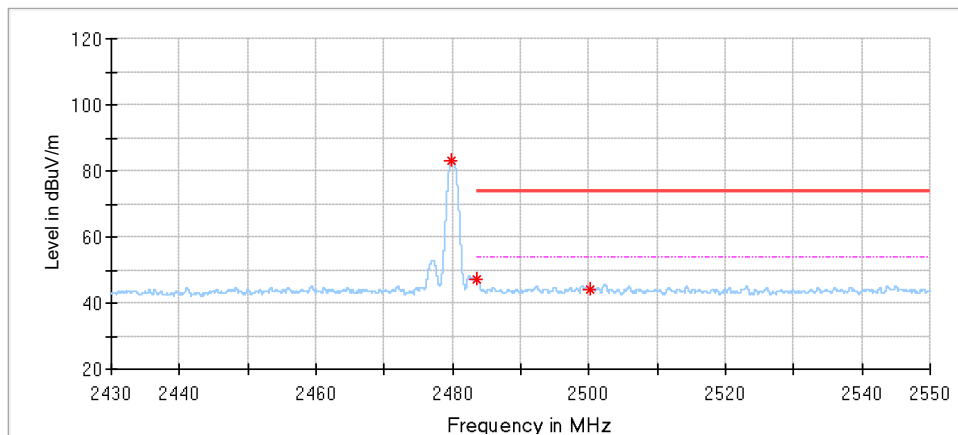


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.848000	83.53	---	---	150.0	H	288.0	-1.44
2483.520000	47.06	74.00	26.94	150.0	H	288.0	-1.45
2499.768000	44.64	74.00	29.37	150.0	H	288.0	-1.48

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



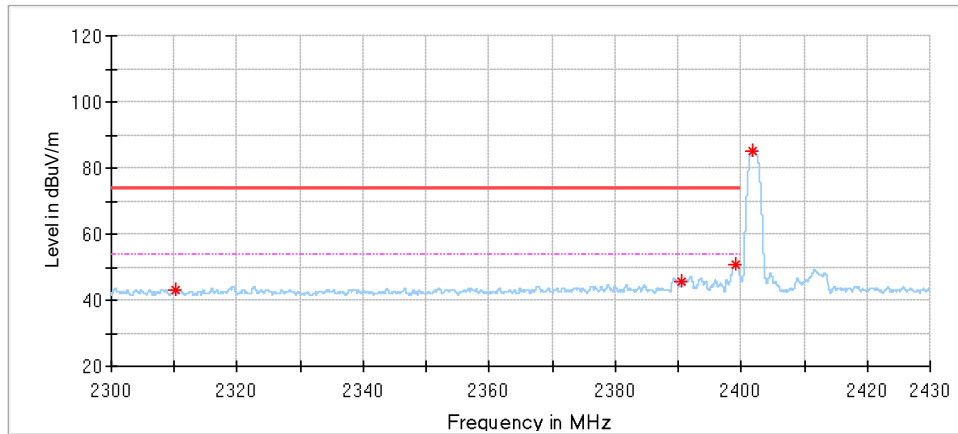
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.944000	82.97	---	---	150.0	V	241.0	-1.44
2483.508000	46.97	74.00	27.04	150.0	V	241.0	-1.45
2500.068000	44.32	74.00	29.68	150.0	V	254.0	-1.48

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

3DH5_Low Channel:

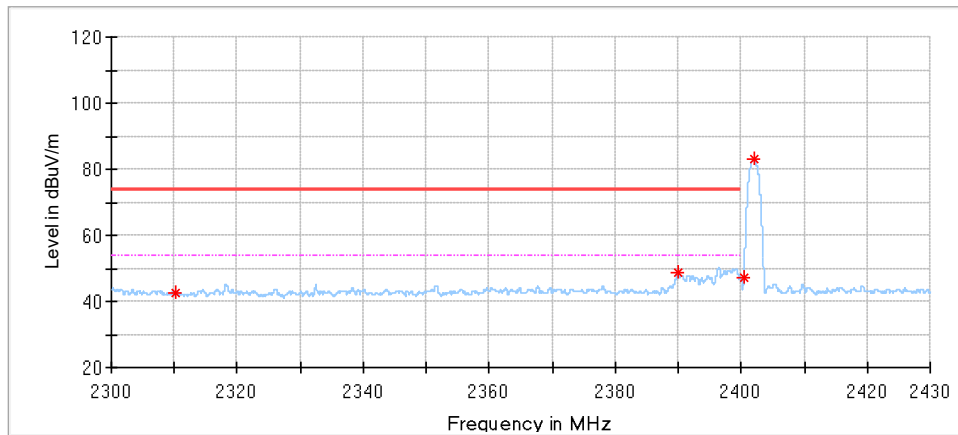


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.205000	42.90	74.00	31.10	150.0	H	34.0	-2.19
2390.571000	45.78	74.00	28.22	150.0	H	131.0	-1.91
2399.164000	50.87	74.00	23.13	150.0	H	300.0	-1.77
2401.764000	85.22	---	---	150.0	H	300.0	-1.73

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



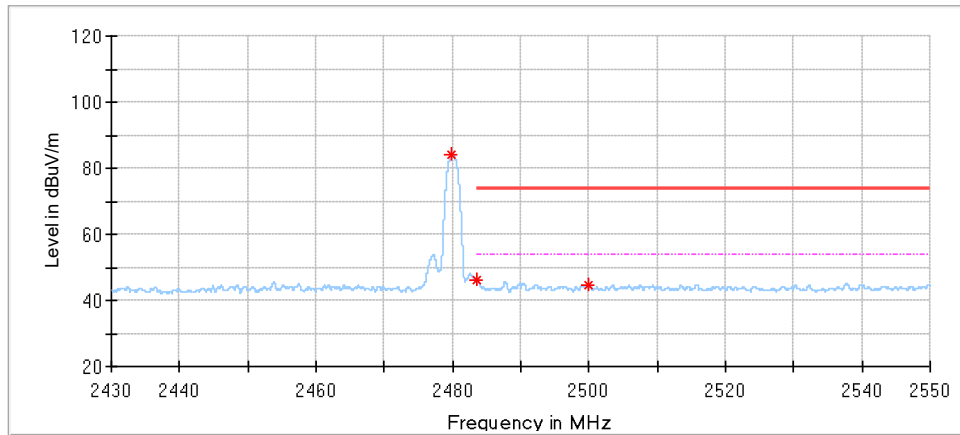
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2310.244000	42.58	74.00	31.42	150.0	V	156.0	-2.19
2389.999000	48.85	74.00	25.15	150.0	V	168.0	-1.92
2400.399000	47.21	---	---	150.0	V	243.0	-1.75
2402.180000	82.88	---	---	150.0	V	231.0	-1.72

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

3DH5_ Hight Channel:

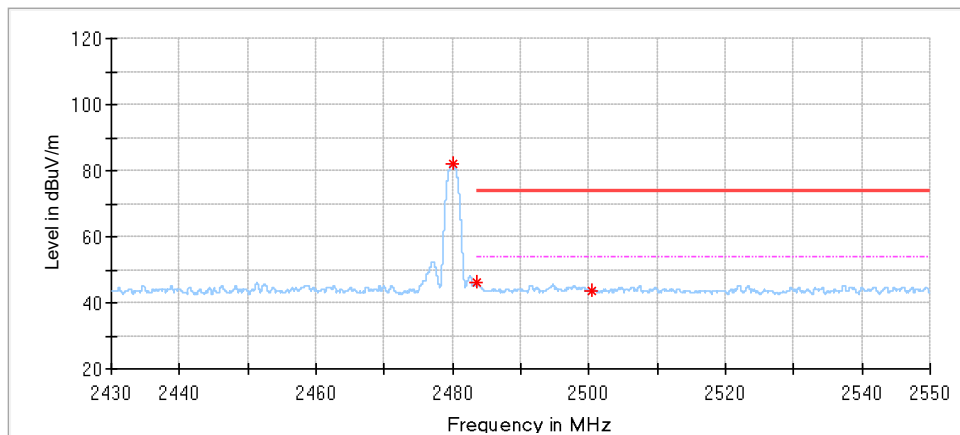


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.764000	83.97	---	---	150.0	H	288.0	-1.44
2483.592000	46.21	74.00	27.79	150.0	H	167.0	-1.45
2499.864000	44.60	74.00	29.40	150.0	H	131.0	-1.48

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.052000	81.98	---	---	150.0	V	243.0	-1.44
2483.508000	46.23	74.00	27.77	150.0	V	243.0	-1.45
2500.536000	43.57	74.00	30.43	150.0	V	231.0	-1.48

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

10 Test Equipment List

List of Test Instruments

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	1	2026-4-25
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	1	2026-4-25
LISN	Rohde & Schwarz	ENV4200	68-4-87-14-001	100249	1	2026-4-25
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2026-4-19
Cable	OUQIAO	RG142	68-4-90-19-005-A20	----	----	----
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2027-10-07

Radiated Emission Test (9kHz-30MHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2026-4-25
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2026-7-17
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Emission Test (30MHz-1GHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2026-4-25
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2026-2-11
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2026-4-19
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission Test (1GHz-18GHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2026-4-25
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2026-3-10
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2026-4-19
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2026-4-19
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Emission Test (18GHz-40GHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2026-4-25
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2026-6-19
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2026-7-7
Cable	JUNFLON	MWX241	68-4-90-19-006-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

RF Conducted Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2026-4-18
RF Meas. and Switch Matrix Unit	TST PASS	TSCB3023R2	68-4-93-23-001	2811685c	1	2026-4-18
Cable	JUNFLON	J12J103539	68-4-90-19-003-A20	----	----	----
Test software	TST PASS	TST PASS	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2027-10-07

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 9kHz-150KHz	3.14dB
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.69dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.79dB Vertical: 5.86dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.37dB Vertical: 5.37dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 18GHz-40GHz	Horizontal: 5.29dB Vertical: 5.29dB
Uncertainty for RF Conducted Measurement power	1.12dB
Uncertainty Evaluation for Spurious emissions Conducted measurement	2.07dB
Uncertainty Evaluation for OBW	2.32%
Uncertainty Evaluation for Humidity	1.32%
Uncertainty Evaluation for Temperature	0.26 °C

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.4.3 and 4.5.1.

---THE END OF REPORT---