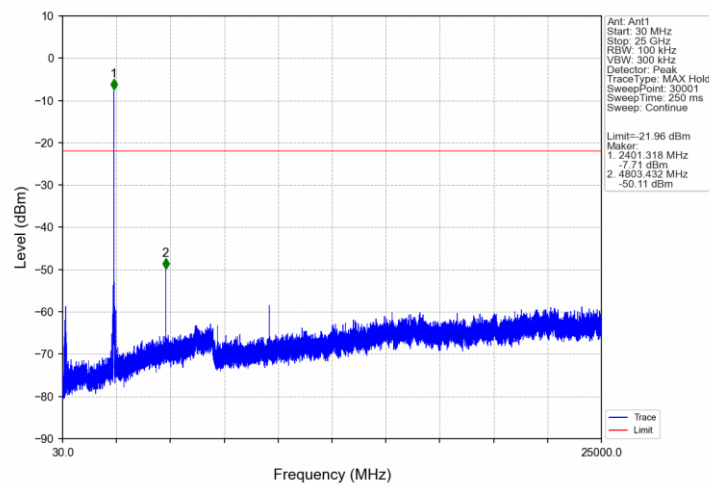
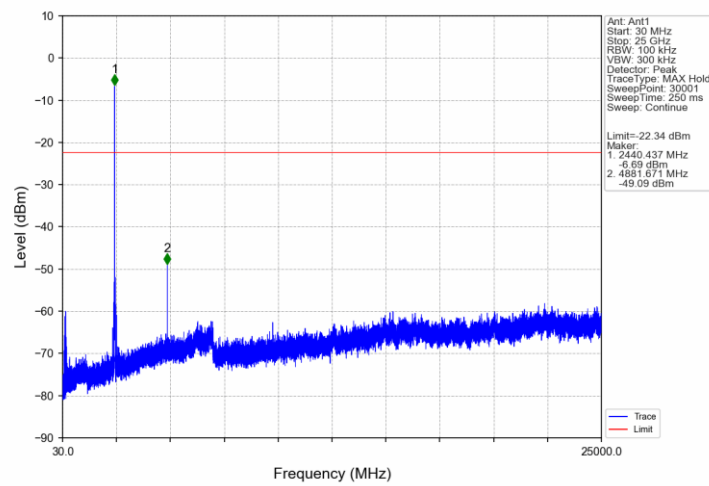


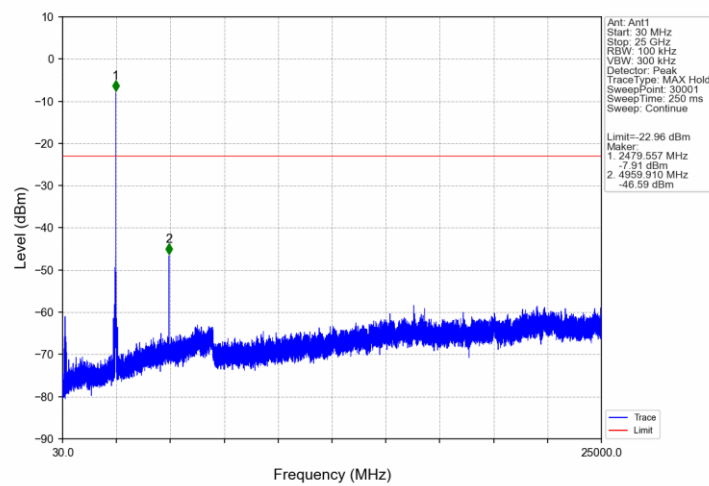
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



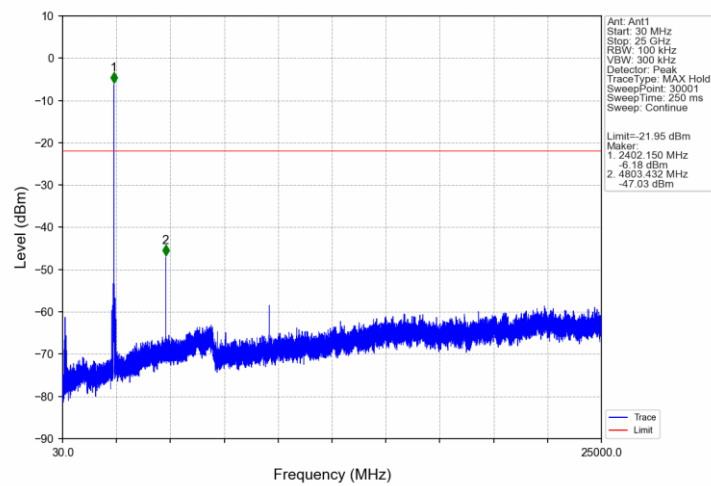
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



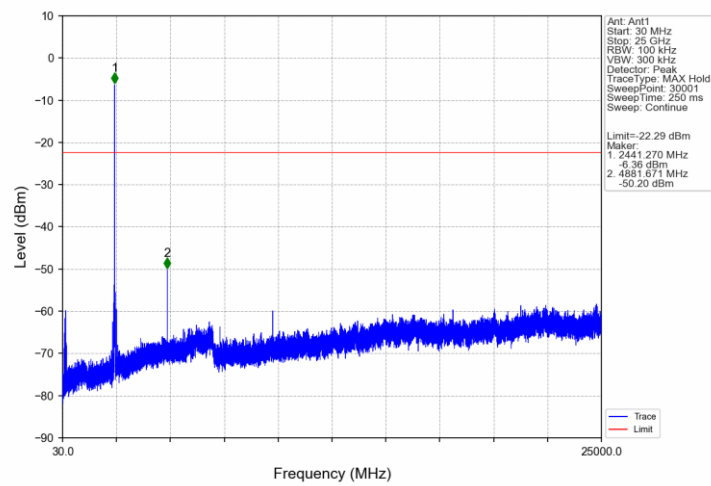
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



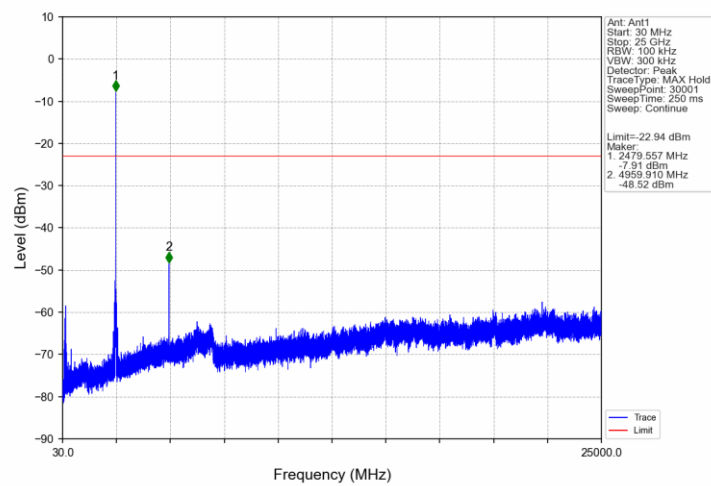
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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:

According to §15.247(d), Band Edge limit as below:

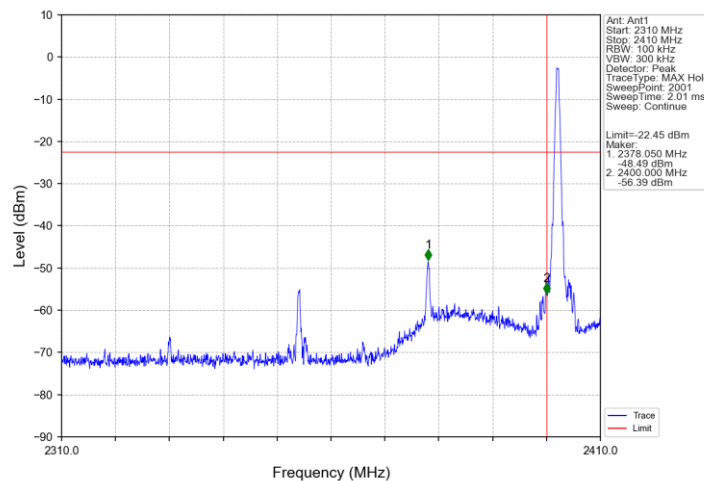
In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

Band Edge

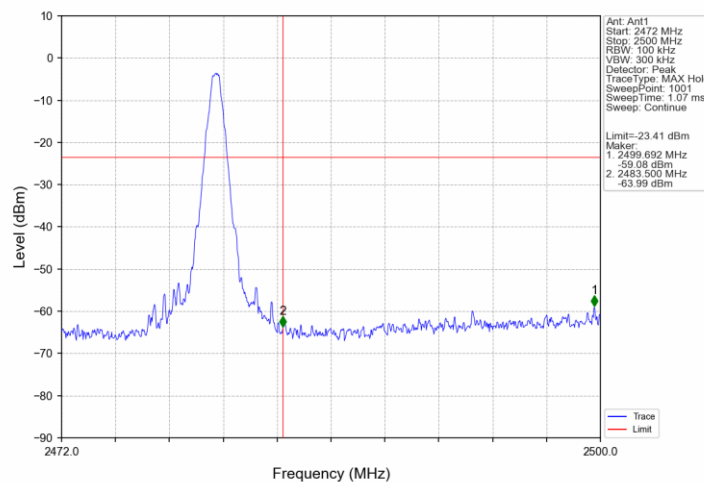
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.45	-22.45	Pass
		2441	DH5	1	-2.87	-22.87	Pass
		2480	DH5	1	-3.41	-23.41	Pass
		HOPP	DH5	1	-2.55	-22.55	Pass
		HOPP	DH5	1	-2.55	-22.55	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-1.96	-21.96	Pass
		2441	2DH5	1	-2.34	-22.34	Pass
		2480	2DH5	1	-2.96	-22.96	Pass
		HOPP	2DH5	1	-2.00	-22.00	Pass
		HOPP	2DH5	1	-2.00	-22.00	Pass
8DPSK	SISO	2402	3DH5	1	-1.95	-21.95	Pass
		2441	3DH5	1	-2.29	-22.29	Pass
		2480	3DH5	1	-2.94	-22.94	Pass
		HOPP	3DH5	1	-2.00	-22.00	Pass
		HOPP	3DH5	1	-2.00	-22.00	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

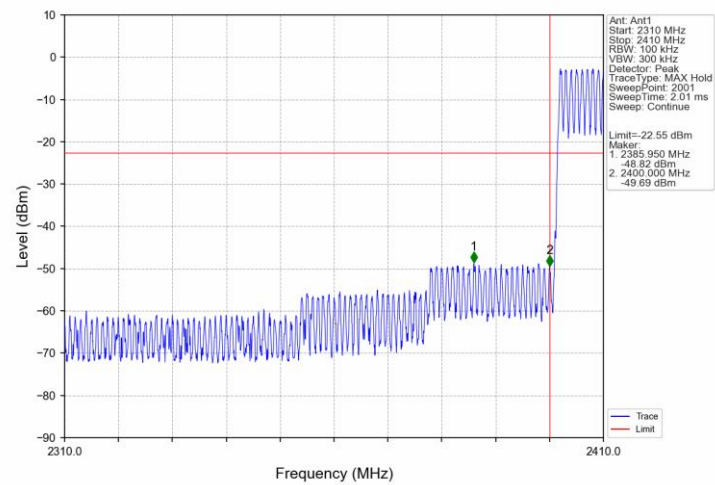
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



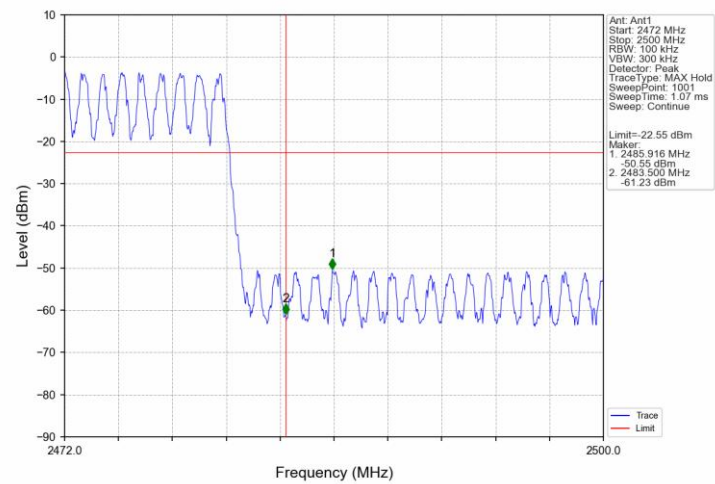
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



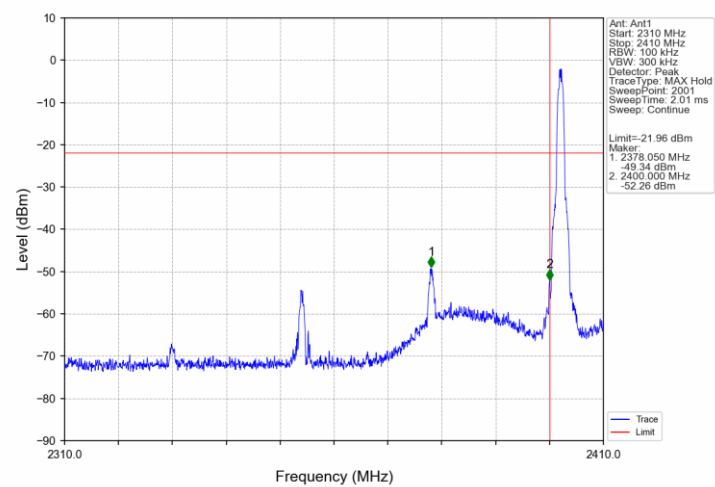
GFSK_DH5_HOPP_Ant1_NTNV



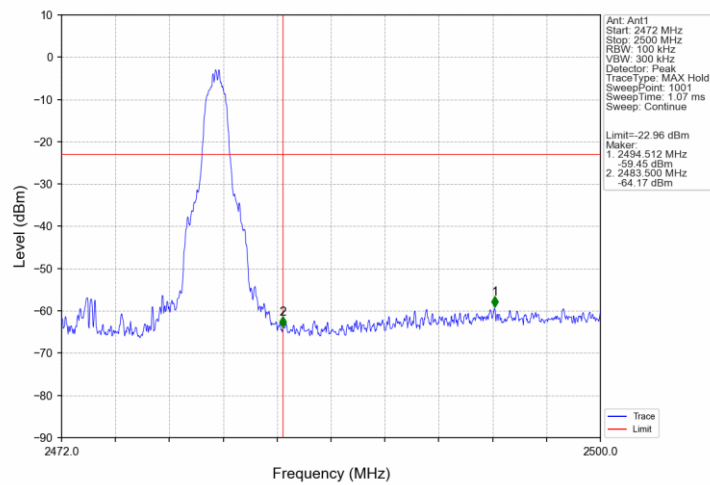
GFSK_DH5_HOPP_Ant1_NTNV



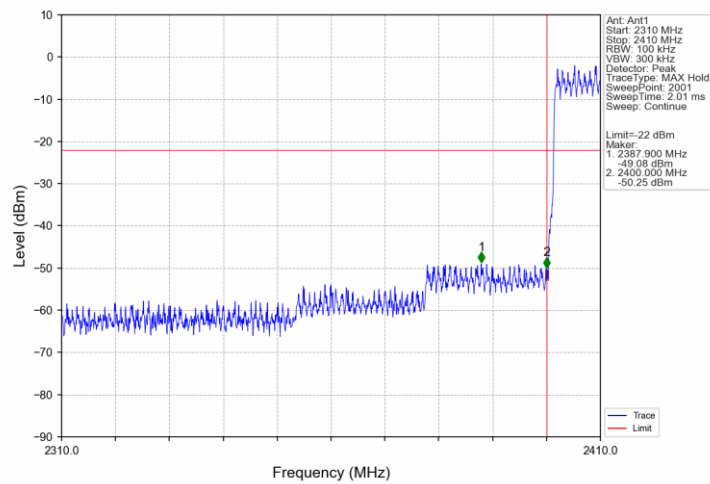
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



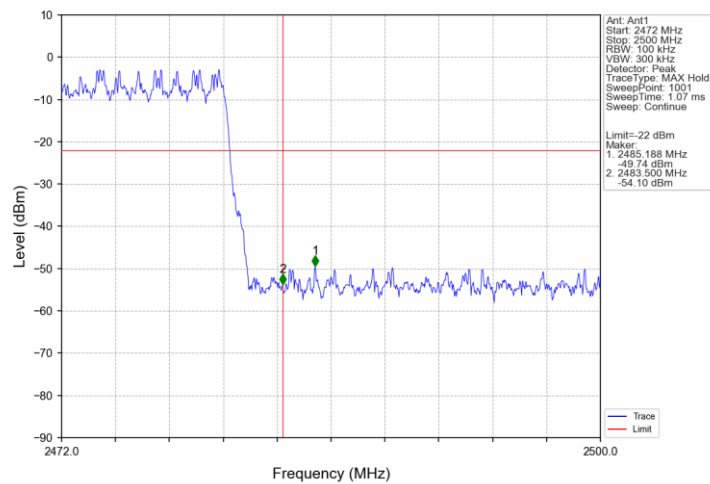
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



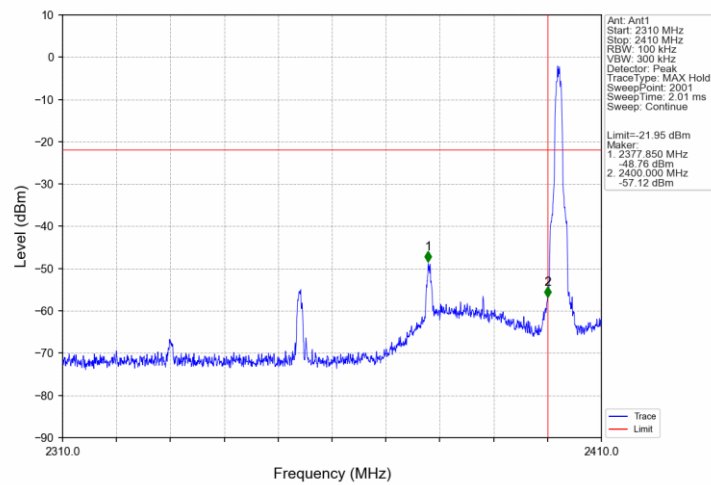
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



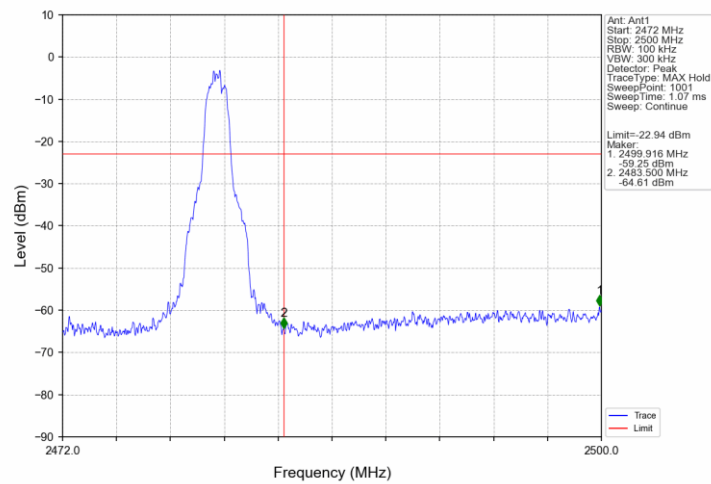
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



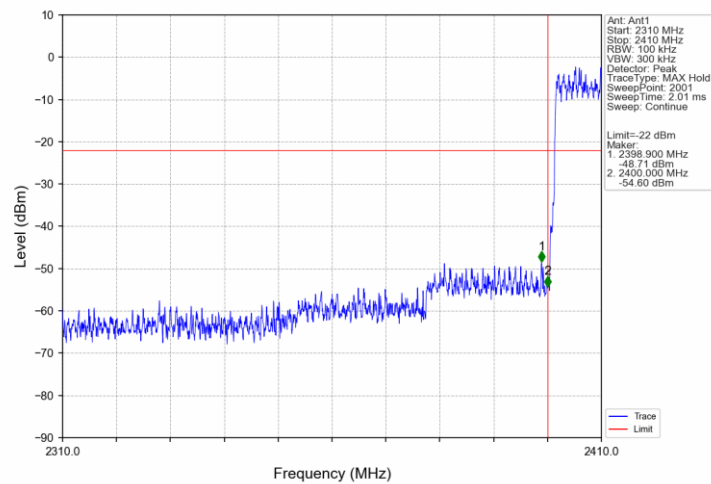
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



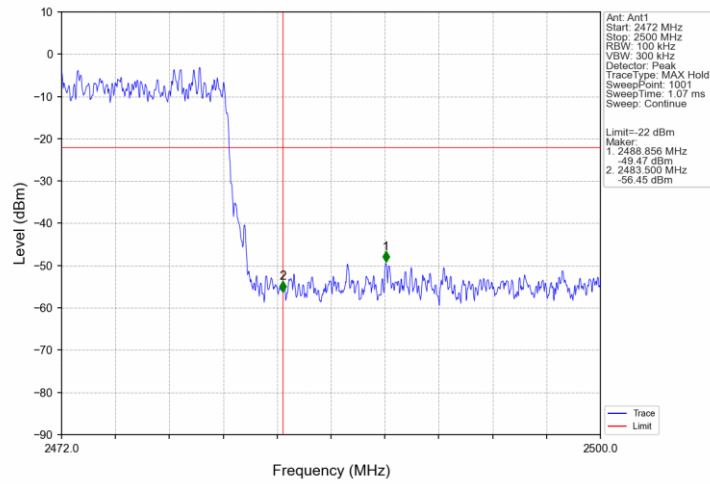
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength $\mu\text{V/m}$	Field Strength $\text{dB}\mu\text{V/m}$	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: $\text{Limit } 3\text{m}(\text{dB}\mu\text{V/m}) = \text{Limit } 300\text{m}(\text{dB}\mu\text{V/m}) + 40\text{Log}(300\text{m}/3\text{m})$ (Below 30MHz)

Note 2: $\text{Limit } 3\text{m}(\text{dB}\mu\text{V/m}) = \text{Limit } 30\text{m}(\text{dB}\mu\text{V/m}) + 40\text{Log}(30\text{m}/3\text{m})$ (Below 30MHz)

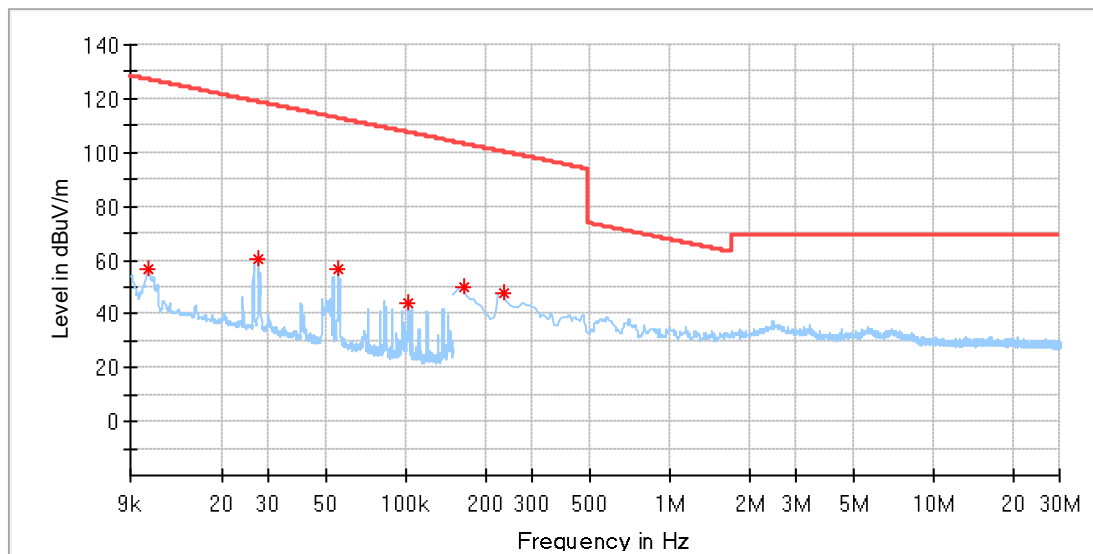
Spurious radiated emissions for transmitter

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.

All test modes at test frequencies from 9KHz to 1GHz were evaluated in the report, but only the only poor case test results were listed.

Transmitting spurious emission test result as below:

Test data_9KHz to 30MHz---DH5-2402MHz

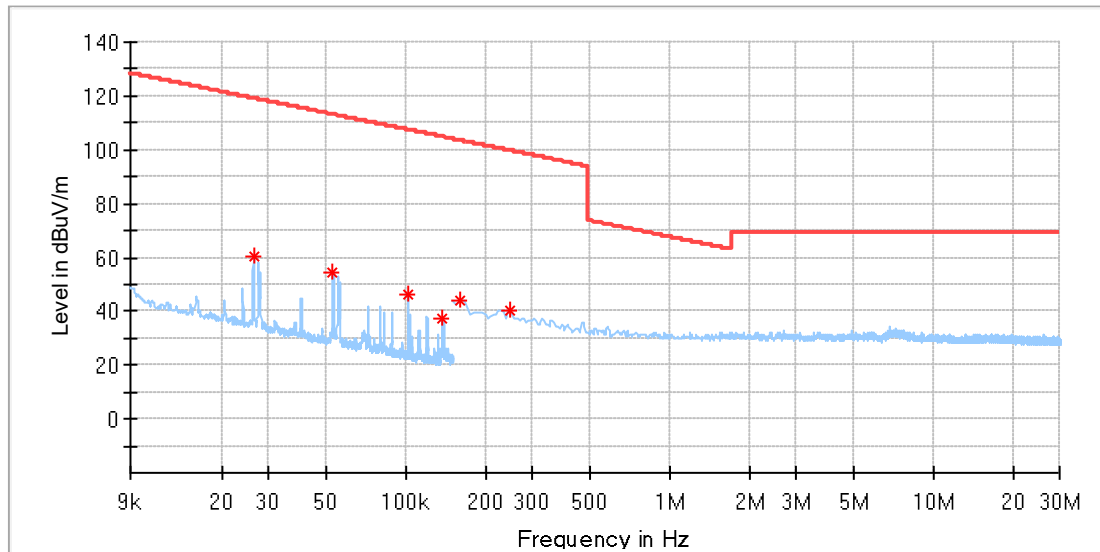


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.010551	56.84	127.12	70.28	H	331.0	20.19
0.027565	60.00	118.78	58.78	H	200.0	19.88
0.055060	56.40	112.78	56.38	H	214.0	19.92
0.102060	44.35	107.42	63.07	H	252.0	19.93
0.164925	49.86	103.25	53.39	H	52.0	19.89
0.234575	47.53	100.20	52.67	H	299.0	19.88

Final_Result

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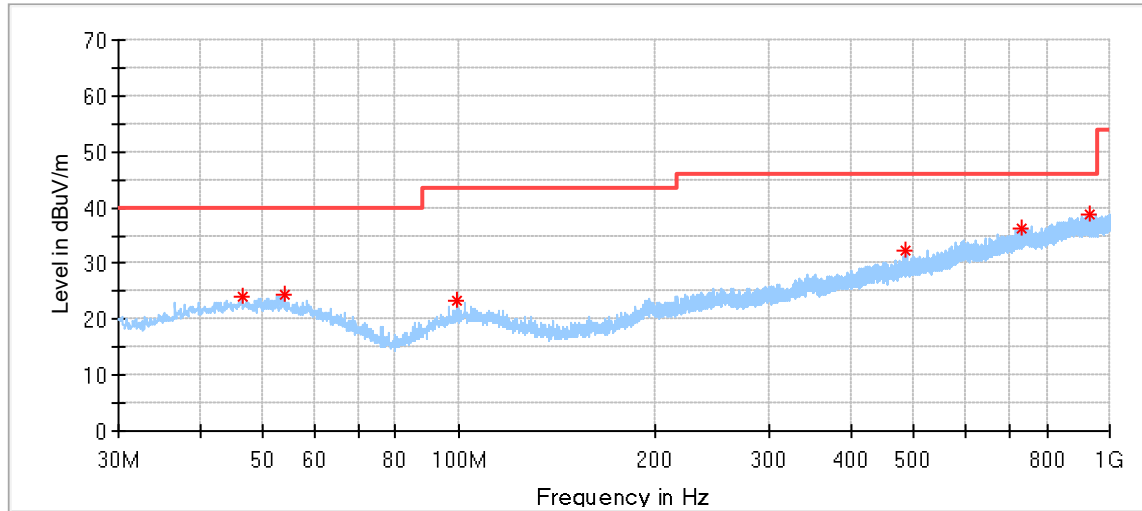
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.026390	60.02	119.16	59.14	V	303.0	19.87
0.052804	54.54	113.14	58.60	V	119.0	19.91
0.101966	45.91	107.43	61.51	V	128.0	19.93
0.137780	37.26	104.81	67.56	V	294.0	19.91
0.159950	43.77	103.52	59.75	V	82.0	19.90
0.249500	40.25	99.66	59.41	V	193.0	19.89

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test data_30MHz to 1000MHz---DH5-2402MHz

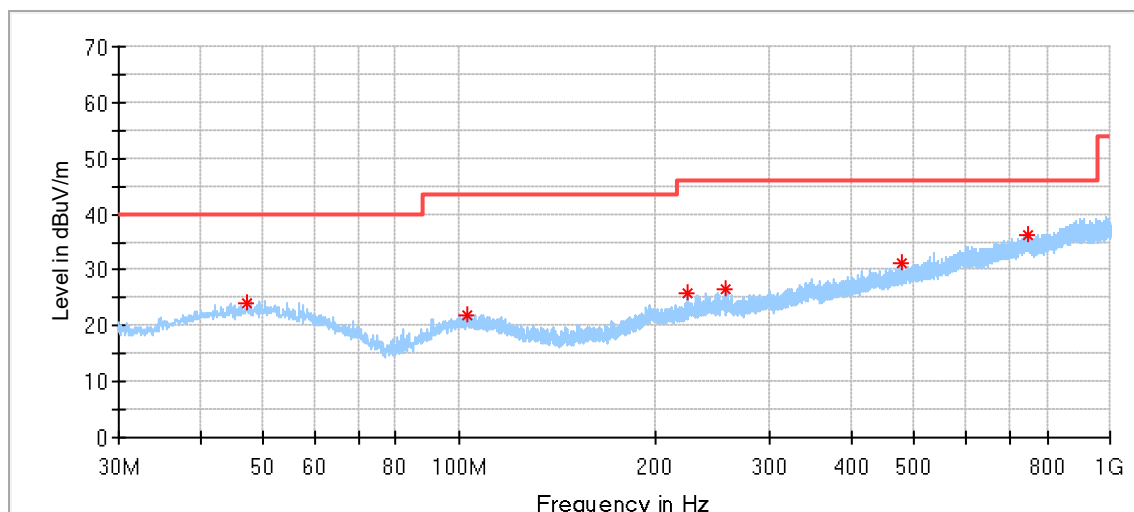


Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.490000	24.15	40.00	15.85	100.0	H	131.0	18.16
53.872778	24.26	40.00	15.74	200.0	H	100.0	17.77
99.139444	23.41	43.50	20.09	100.0	H	233.0	15.58
487.193333	32.16	46.00	13.84	200.0	H	218.0	22.84
732.118333	36.29	46.00	9.71	200.0	H	100.0	27.24
933.070000	38.87	46.00	7.13	100.0	H	139.0	29.68

Final_Result

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

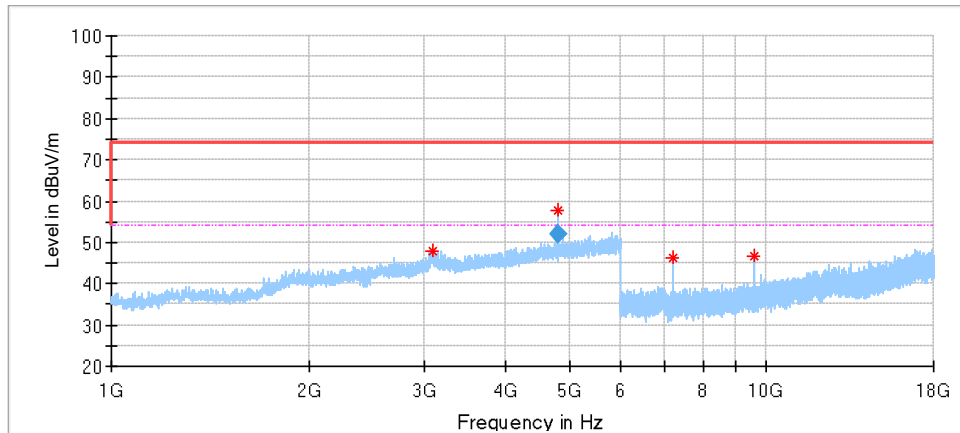
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.244444	24.18	40.00	15.82	200.0	V	160.0	18.22
102.857778	21.72	43.50	21.78	100.0	V	23.0	15.68
224.377222	25.71	46.00	20.29	200.0	V	254.0	16.48
255.902222	26.61	46.00	19.39	200.0	V	191.0	18.20
478.571111	31.05	46.00	14.95	200.0	V	102.0	22.54
747.045556	36.10	46.00	9.90	200.0	V	270.0	27.80

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test data 1GHz to 18GHz:

DH5_2402MHz - Horizontal:



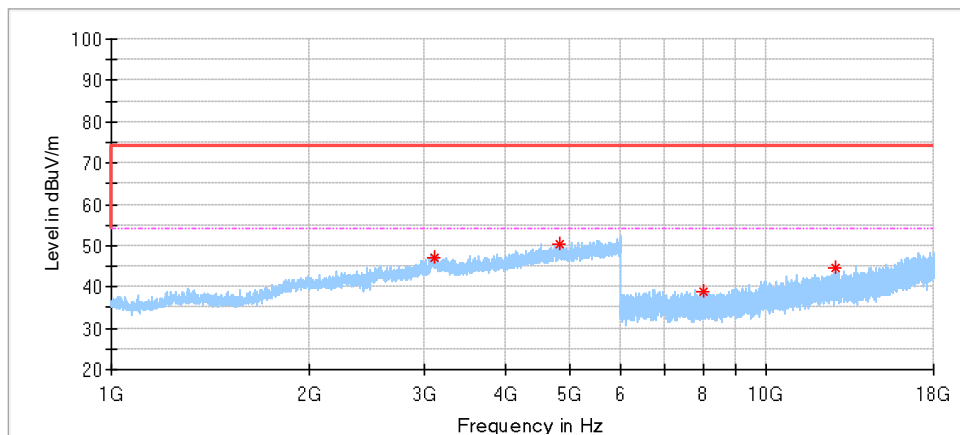
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3088.500000	47.74	74.00	26.26	150.0	H	291.0	2.47
4804.500000	57.56	74.00	16.44	150.0	H	41.0	5.68
7206.000000	46.23	74.00	27.77	150.0	H	7.0	8.94
9608.000000	46.83	74.00	27.17	150.0	H	77.0	12.59

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.500000	52.17	54.00	1.83	150.0	H	41.0	5.68

DH5_2402MHz - Vertical:



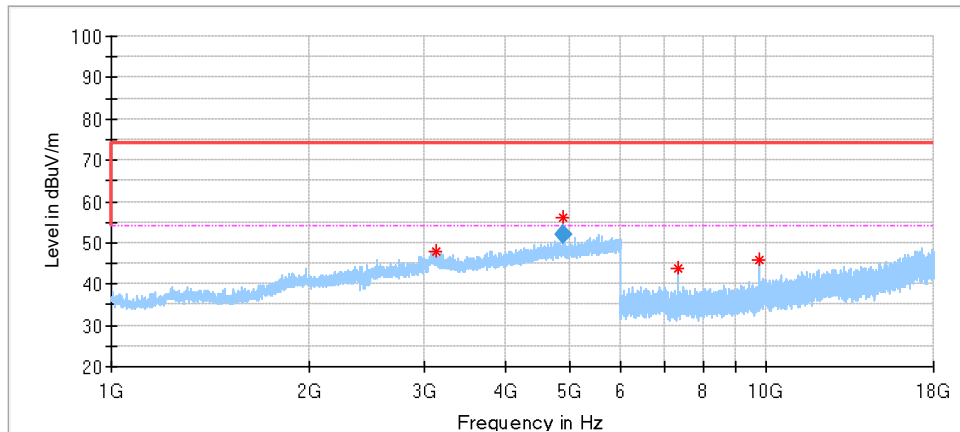
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3122.000000	47.16	74.00	26.84	150.0	V	196.0	2.16
4841.000000	50.31	74.00	23.69	150.0	V	88.0	5.85
8021.500000	38.92	74.00	35.08	150.0	V	278.0	10.56
12748.500000	44.65	74.00	29.35	150.0	V	81.0	16.57

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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DH5_2441MHz - Horizontal:



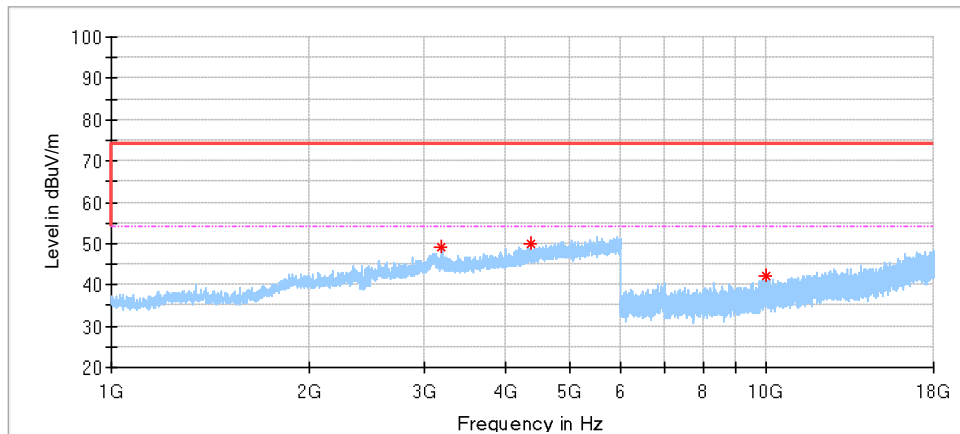
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3126.000000	47.88	74.00	26.12	150.0	H	65.0	2.07
4882.000000	55.99	74.00	18.01	150.0	H	13.0	5.97
7323.000000	43.77	74.00	30.23	150.0	H	7.0	9.62
9764.500000	45.89	74.00	28.11	150.0	H	29.0	12.83

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	51.92	54.00	2.08	150.0	H	13.0	5.97

DH5_2441MHz - Vertical:



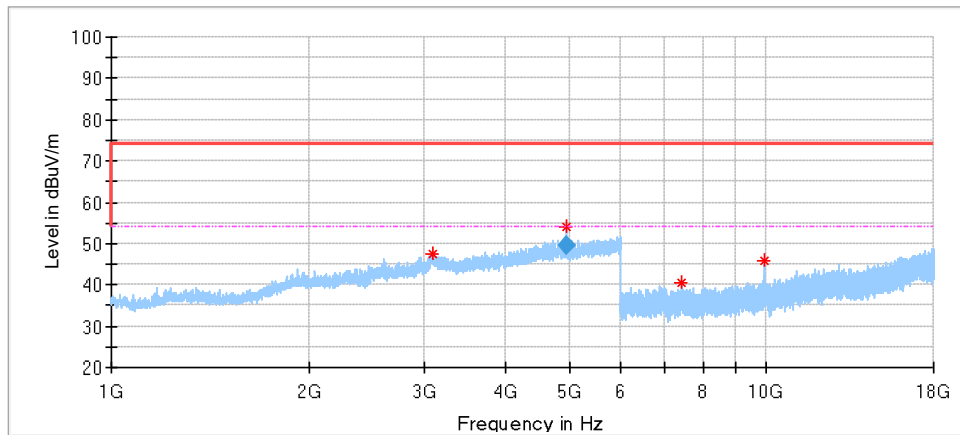
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3198.500000	49.05	74.00	24.95	150.0	V	126.0	1.42
4380.000000	49.96	74.00	24.04	150.0	V	114.0	4.14
9968.000000	41.95	74.00	32.05	150.0	V	298.0	13.02

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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DH5_2480MHz - Horizontal:



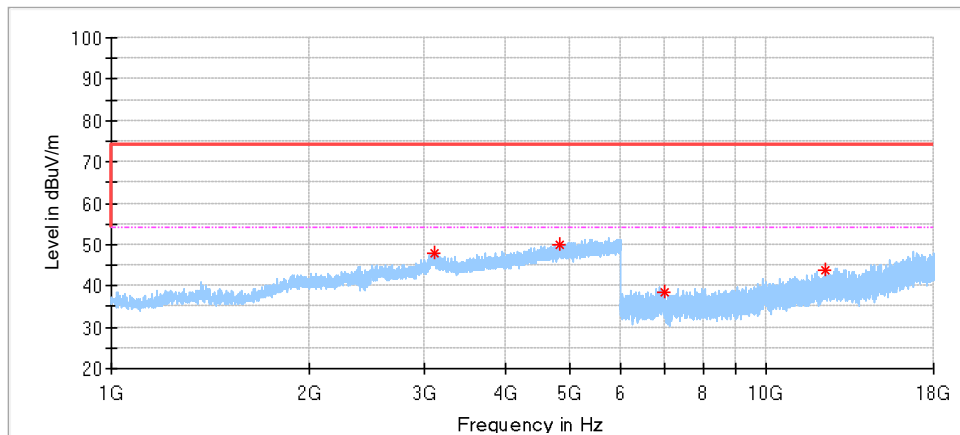
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3100.000000	47.45	74.00	26.55	150.0	H	307.0	2.77
4960.500000	54.13	74.00	19.87	150.0	H	2.0	5.84
7440.000000	40.62	74.00	33.38	150.0	H	331.0	9.58
9920.000000	45.96	74.00	28.04	150.0	H	230.0	13.03

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.500000	49.49	54.00	4.51	150.0	H	2.0	5.84

DH5_2480MHz - Vertical:



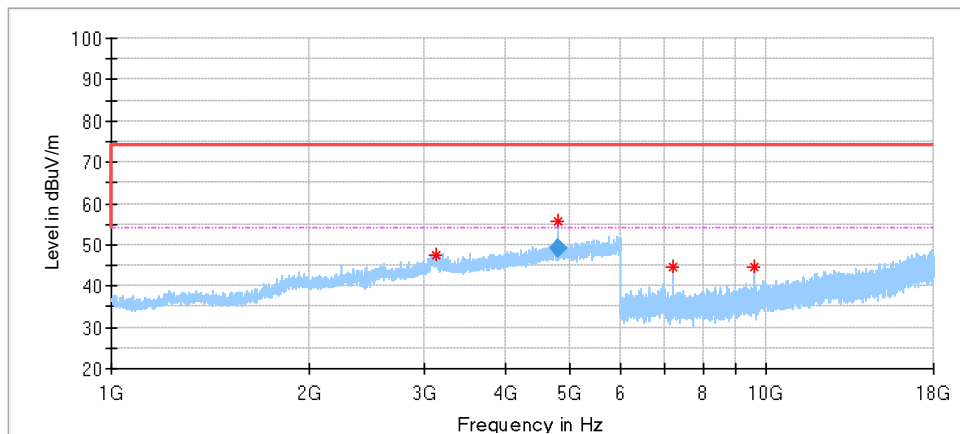
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3121.000000	47.73	74.00	26.27	150.0	V	137.0	2.18
4833.000000	50.12	74.00	23.88	150.0	V	209.0	5.79
6983.000000	38.53	74.00	35.47	150.0	V	306.0	9.35
12298.000000	43.68	74.00	30.32	150.0	V	82.0	16.57

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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3DH5_2402MHz - Horizontal:

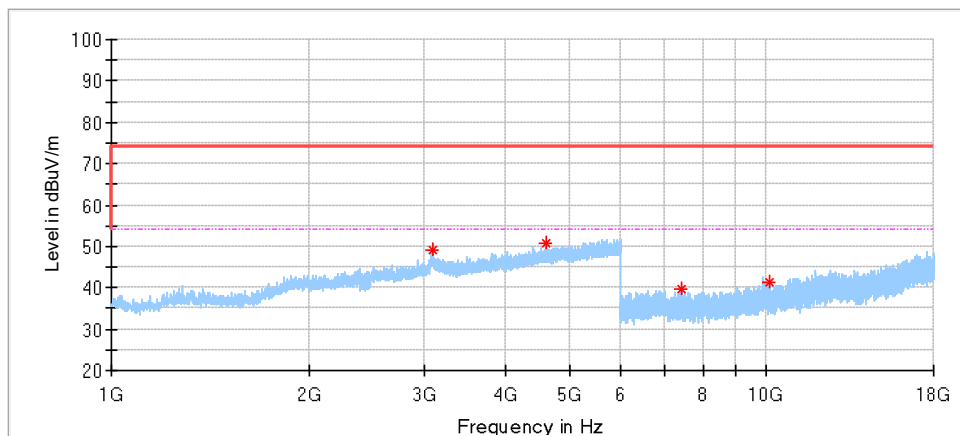
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3141.000000	47.30	74.00	26.70	150.0	H	258.0	1.72
4804.500000	55.50	74.00	18.50	150.0	H	31.0	5.68
7205.500000	44.79	74.00	29.21	150.0	H	352.0	8.94
9608.000000	44.81	74.00	29.19	150.0	H	108.0	12.59

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.500000	49.28	54.00	4.72	150.0	H	31.0	5.68

3DH5_2402MHz - Vertical:

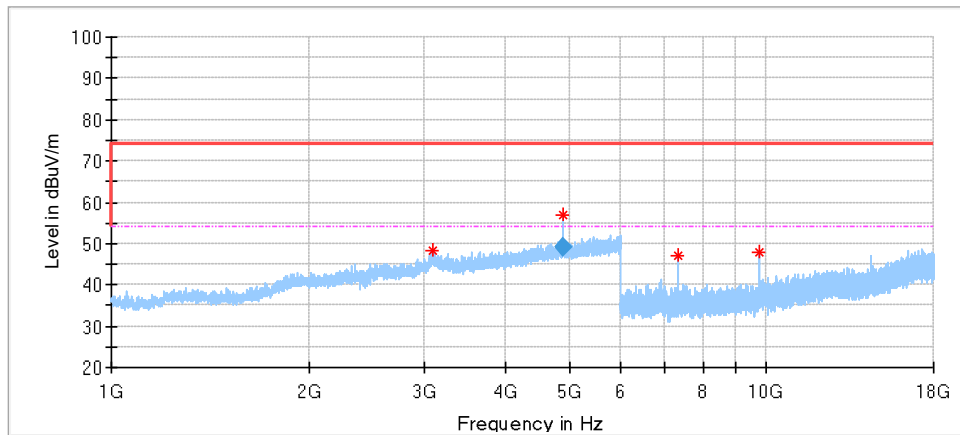
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3094.500000	48.96	74.00	25.04	150.0	V	292.0	2.63
4615.000000	50.66	74.00	23.34	150.0	V	256.0	5.22
7442.000000	39.49	74.00	34.51	150.0	V	105.0	9.58
10086.500000	41.32	74.00	32.68	150.0	V	130.0	13.06

Final_Result

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

3DH5_2441MHz - Horizontal:



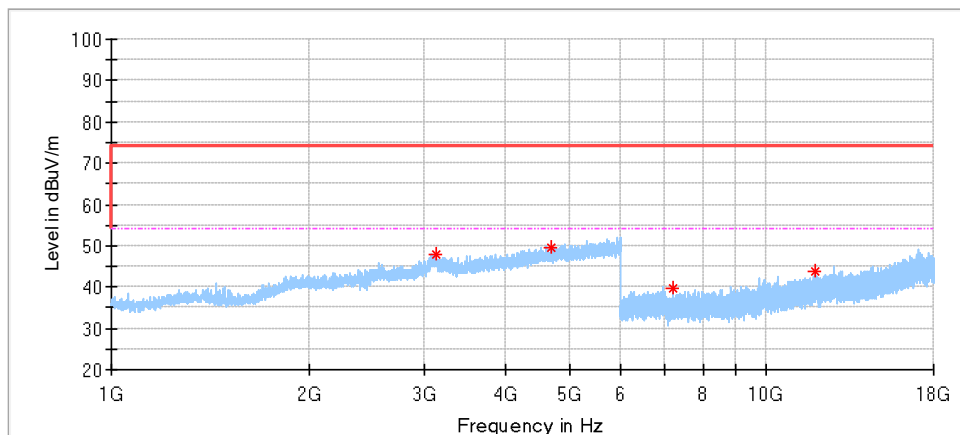
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3092.000000	48.41	74.00	25.59	150.0	H	63.0	2.56
4882.500000	57.05	74.00	16.95	150.0	H	13.0	5.97
7323.000000	46.87	74.00	27.13	150.0	H	228.0	9.62
9764.000000	47.99	74.00	26.01	150.0	H	228.0	12.83

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.500000	49.27	54.00	4.73	150.0	H	13.0	5.97

3DH5_2441MHz - Vertical:



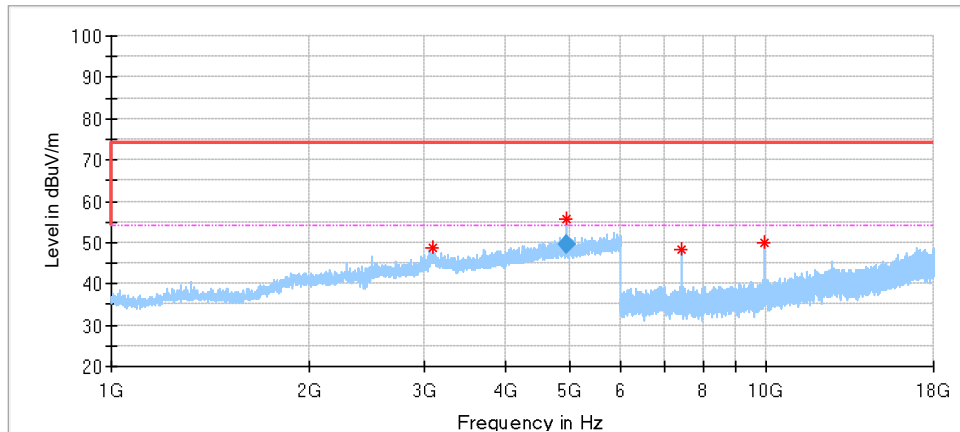
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3131.500000	47.98	74.00	26.02	150.0	V	4.0	1.94
4691.000000	49.35	74.00	24.65	150.0	V	90.0	5.35
7197.000000	39.76	74.00	34.24	150.0	V	179.0	8.91
11885.000000	43.74	74.00	30.26	150.0	V	278.0	16.49

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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3DH5_2480MHz - Horizontal:



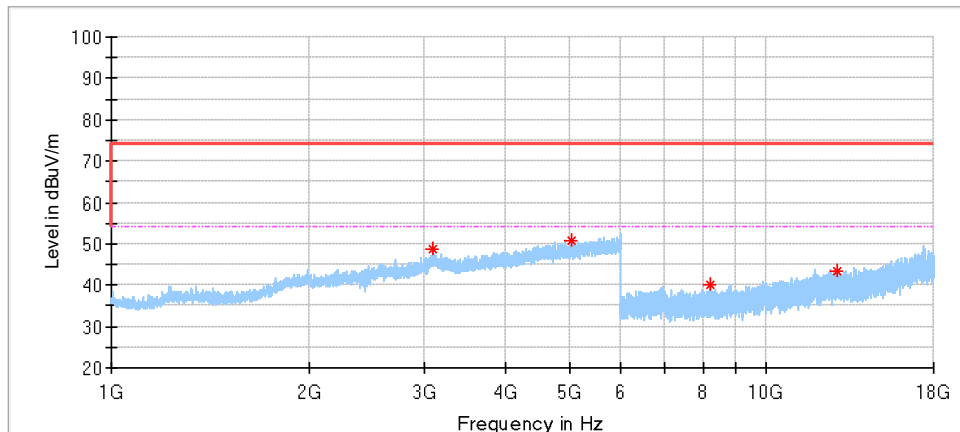
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3097.000000	48.88	74.00	25.12	150.0	H	250.0	2.69
4960.000000	55.63	74.00	18.37	150.0	H	19.0	5.84
7440.000000	48.22	74.00	25.78	150.0	H	328.0	9.58
9920.000000	49.81	74.00	24.19	150.0	H	255.0	13.03

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	49.44	54.00	4.56	150.0	H	19.0	5.84

3DH5_2480MHz - Vertical:



Critical_Freqs

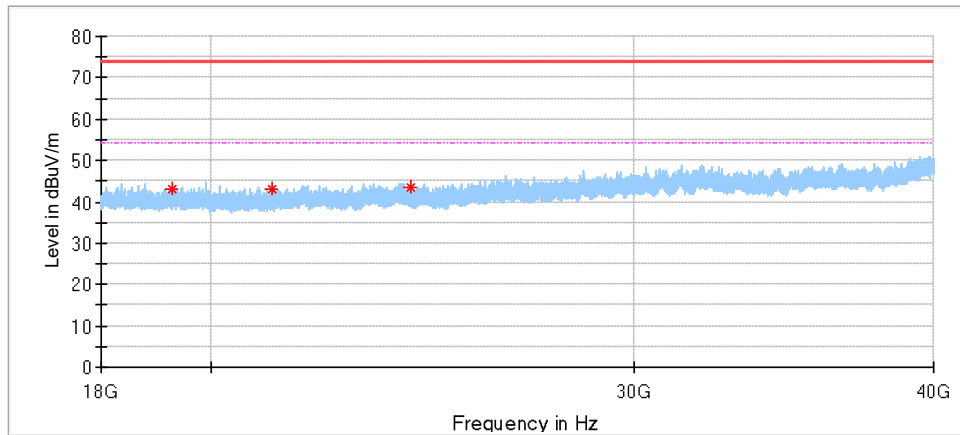
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3095.500000	48.76	74.00	25.24	150.0	V	304.0	2.65
5036.500000	50.93	74.00	23.07	150.0	V	53.0	5.85
8185.500000	40.16	74.00	33.84	150.0	V	225.0	10.47
12796.500000	43.51	74.00	30.49	150.0	V	200.0	16.61

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test data 18GHz to 40GHz:

DH5_2402MHz - Horizontal:



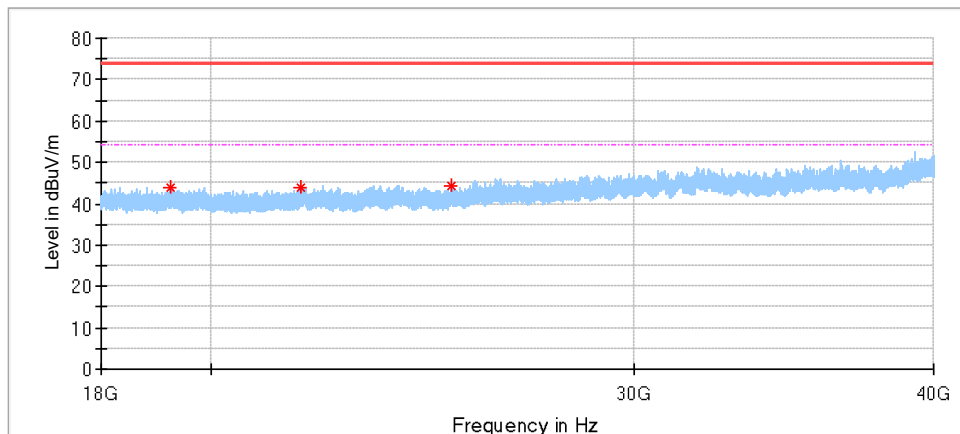
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19272.562500	42.92	74.00	31.08	150.0	H	309.0	-3.84	---
21218.875000	43.25	74.00	30.75	150.0	H	48.0	-1.70	---
24236.312500	43.52	74.00	30.48	150.0	H	263.0	0.56	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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DH5_2402MHz - Vertical:



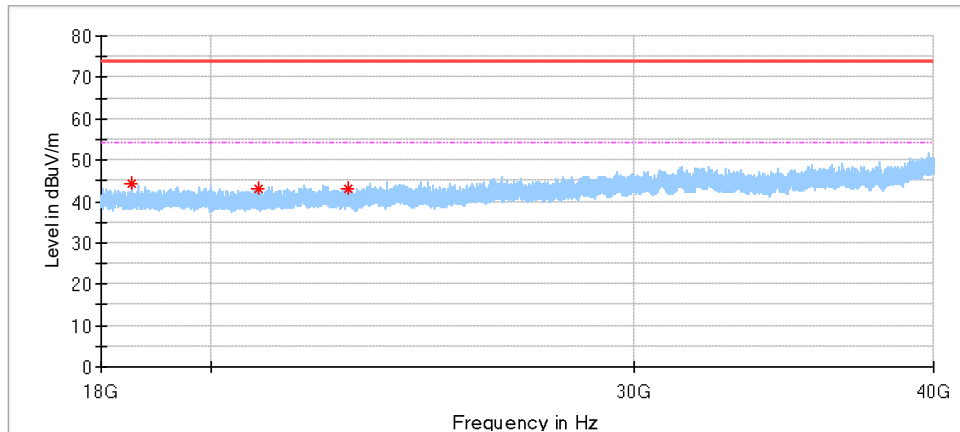
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19231.312500	43.98	74.00	30.02	150.0	V	143.0	-3.90	---
21805.312500	43.74	74.00	30.26	150.0	V	48.0	-0.83	---
25198.125000	44.46	74.00	29.54	150.0	V	283.0	0.65	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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DH5_2441MHz - Horizontal:



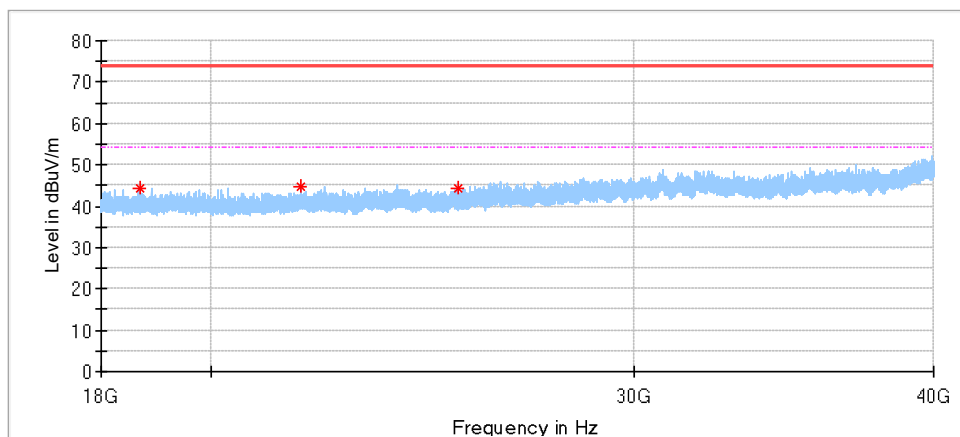
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
18532.125000	44.12	74.00	29.88	150.0	H	31.0	-4.50	---
20948.687500	43.27	74.00	30.73	150.0	H	31.0	-1.93	---
22802.875000	43.17	74.00	30.83	150.0	H	294.0	-0.16	---

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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DH5_2441MHz - Vertical:



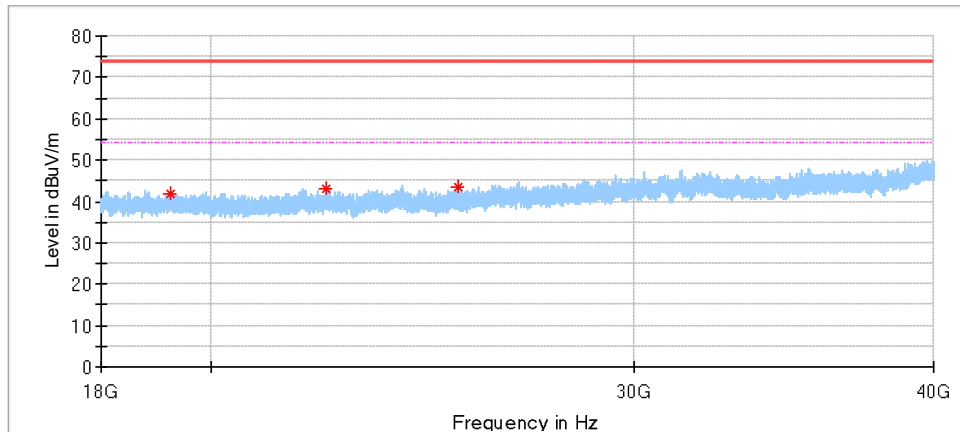
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
18683.375000	44.41	74.00	29.59	150.0	V	97.0	-4.47	---
21790.875000	44.69	74.00	29.31	150.0	V	31.0	-0.85	---
25351.437500	44.37	74.00	29.63	150.0	V	354.0	0.90	---

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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DH5_2480MHz - Horizontal:



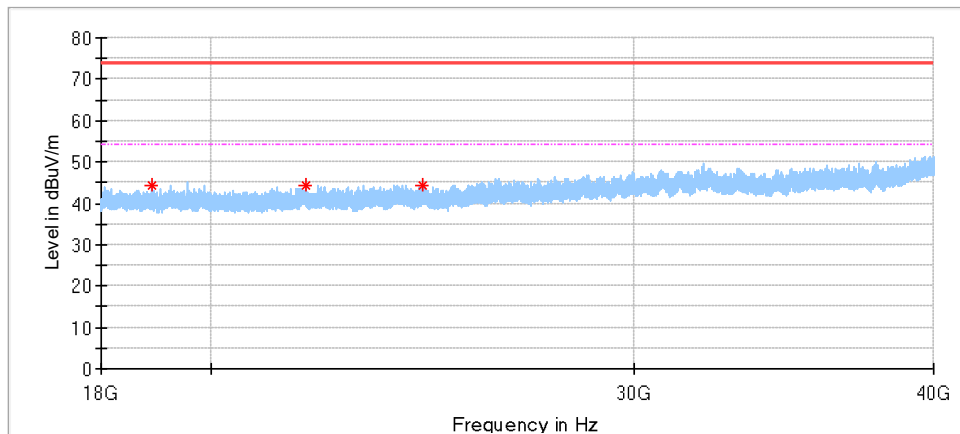
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19249.187500	41.96	74.00	32.04	150.0	H	279.0	-3.87	---
22352.562500	43.02	74.00	30.98	150.0	H	187.0	-0.34	---
25341.812500	43.39	74.00	30.61	150.0	H	248.0	0.88	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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DH5_2480MHz - Vertical:



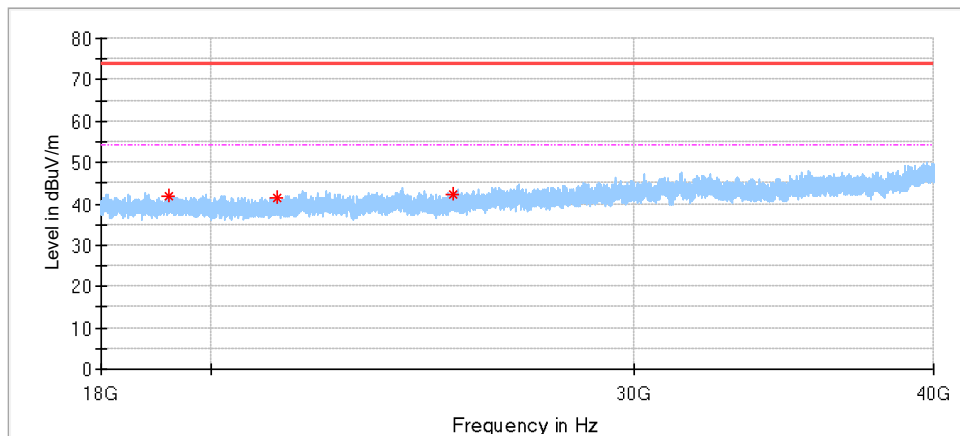
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
18883.437500	44.38	74.00	29.62	150.0	V	268.0	-4.37	---
21911.875000	44.23	74.00	29.77	150.0	V	177.0	-0.69	---
24497.562500	44.34	74.00	29.66	150.0	V	143.0	0.48	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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3DH5_2402MHz - Horizontal:



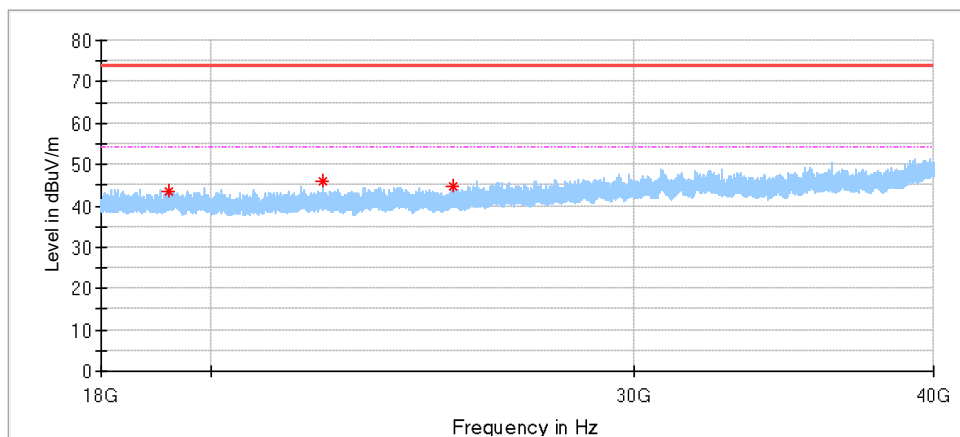
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19221.000000	41.70	74.00	32.30	150.0	H	65.0	-3.91	---
21315.812500	41.27	74.00	32.73	150.0	H	157.0	-1.56	---
25229.750000	42.45	74.00	31.55	150.0	H	0.0	0.71	---

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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3DH5_2402MHz - Vertical:



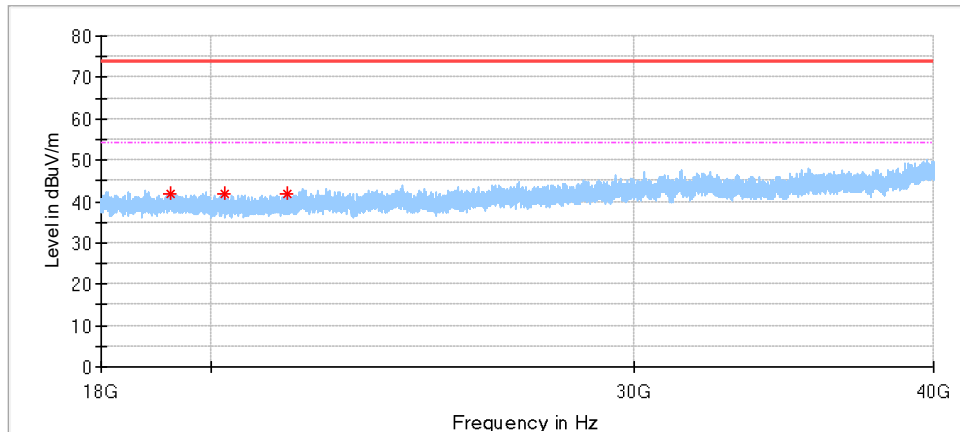
Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19221.687500	43.66	74.00	30.34	150.0	V	31.0	-3.91	---
22250.812500	45.86	74.00	28.14	150.0	V	238.0	-0.32	---
25213.250000	44.57	74.00	29.43	150.0	V	15.0	0.68	---

Final Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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3DH5_2441MHz - Horizontal:

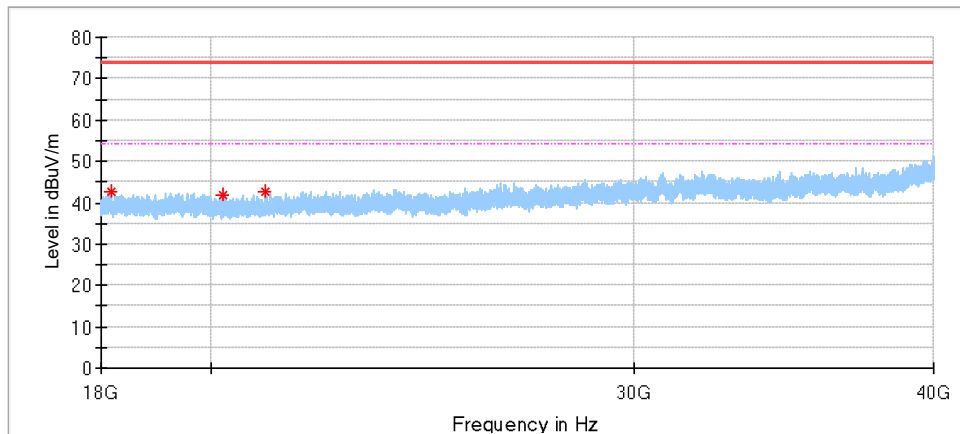
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
19249.187500	41.96	74.00	32.04	150.0	H	279.0	-3.87	---
20279.062500	42.02	74.00	31.98	150.0	H	294.0	-2.83	---
21530.312500	41.72	74.00	32.28	150.0	H	202.0	-1.19	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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3DH5_2441MHz - Vertical:

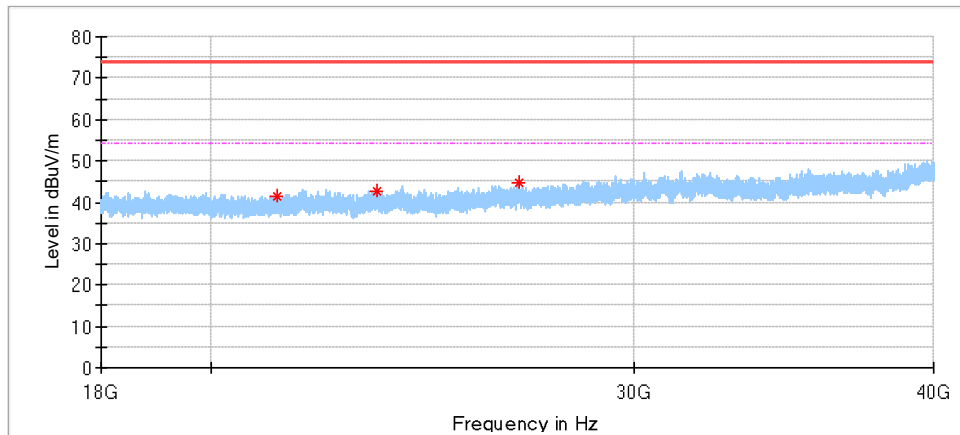
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
18165.000000	42.67	74.00	31.33	150.0	V	359.0	-4.67	---
20219.937500	41.99	74.00	32.01	150.0	V	359.0	-2.89	---
21083.437500	42.52	74.00	31.48	150.0	V	354.0	-1.81	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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3DH5_2480MHz - Horizontal:



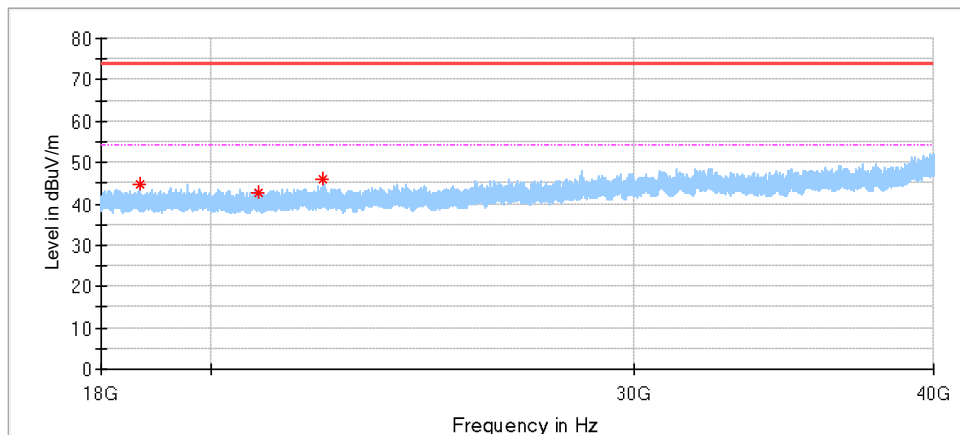
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
21315.812500	41.27	74.00	32.73	150.0	H	157.0	-1.56	---
23462.187500	42.82	74.00	31.18	150.0	H	341.0	0.25	---
26870.812500	44.64	74.00	29.36	150.0	H	218.0	1.93	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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3DH5_2480MHz - Vertical:



Critical_Freqs

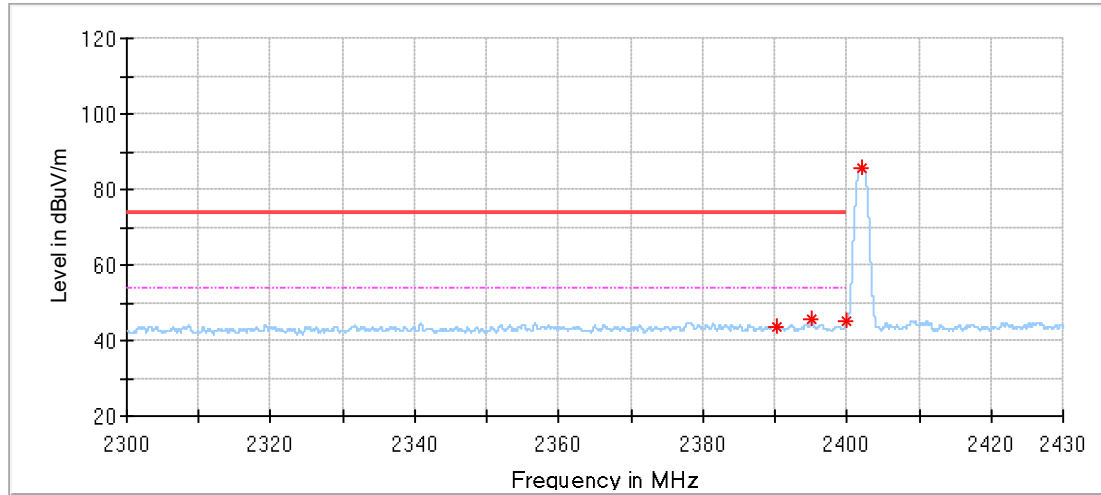
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
18683.375000	44.72	74.00	29.28	150.0	V	97.0	-4.47	---
20926.687500	42.65	74.00	31.35	150.0	V	192.0	-1.96	---
22250.812500	45.87	74.00	28.13	150.0	V	238.0	-0.32	---

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Corr. (dB)
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Emissions at Restricted Band:

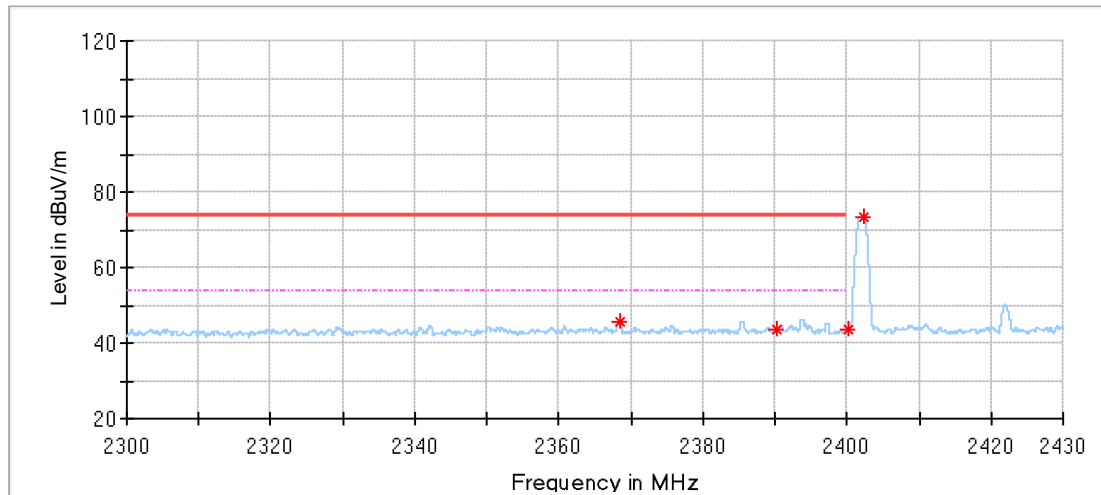
DH5_2402MHz - Horizontal:



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.324000	43.51	74.00	30.49	150.0	H	82.0	-1.91
2395.095000	45.56	74.00	28.44	150.0	H	100.0	-1.84
2399.996000	44.94	74.00	29.06	150.0	H	209.0	-1.76
2402.089000	85.68	---	---	150.0	H	200.0	-1.73

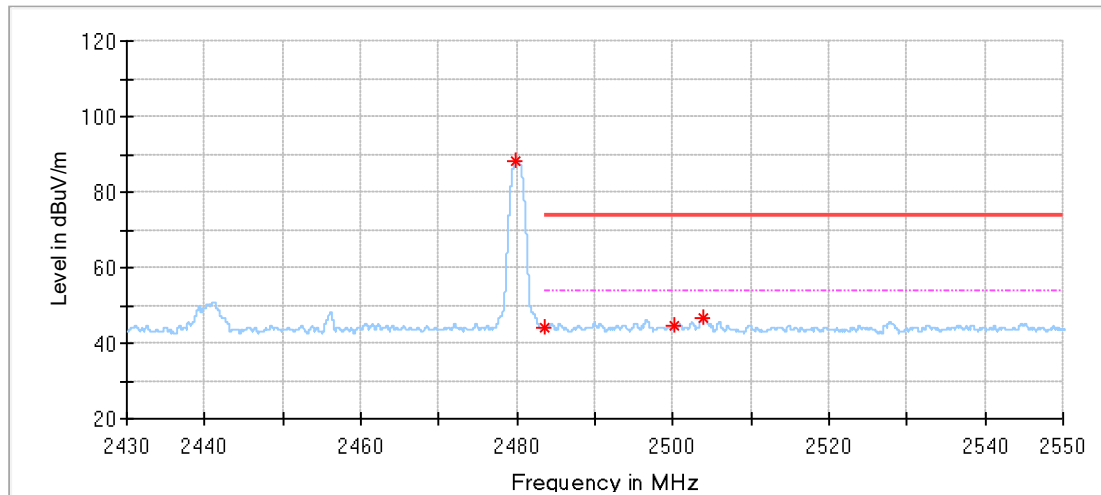
DH5_2402MHz - Vertical:



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2368.419000	45.55	74.00	28.45	150.0	V	196.0	-2.24
2390.220000	43.39	74.00	30.61	150.0	V	12.0	-1.92
2400.230000	43.82	---	---	150.0	V	22.0	-1.75
2402.284000	73.56	---	---	150.0	V	304.0	-1.72

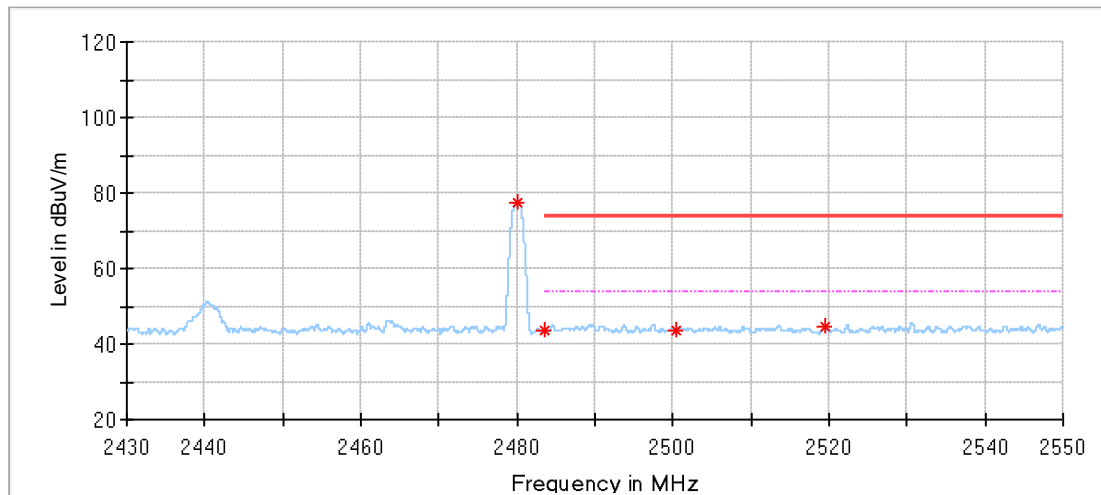
DH5_2480MHz - Horizontal:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.752000	87.98	---	---	150.0	H	188.0	-1.44
2483.484000	44.18	---	---	150.0	H	142.0	-1.45
2500.116000	44.39	74.00	29.61	150.0	H	70.0	-1.48
2504.004000	46.80	74.00	27.20	150.0	H	188.0	-1.47

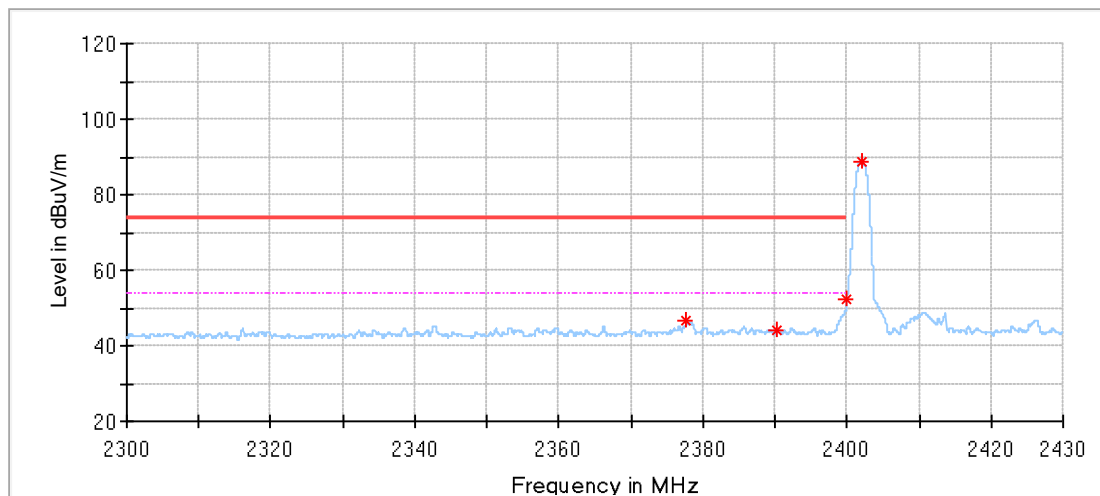
DH5_2480MHz - Vertical:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.052000	77.41	---	---	150.0	V	311.0	-1.44
2483.640000	43.82	74.00	30.18	150.0	V	238.0	-1.45
2500.332000	43.80	74.00	30.20	150.0	V	202.0	-1.48
2519.484000	44.72	74.00	29.28	150.0	V	116.0	-1.43

3DH5_2402MHz - Horizontal:



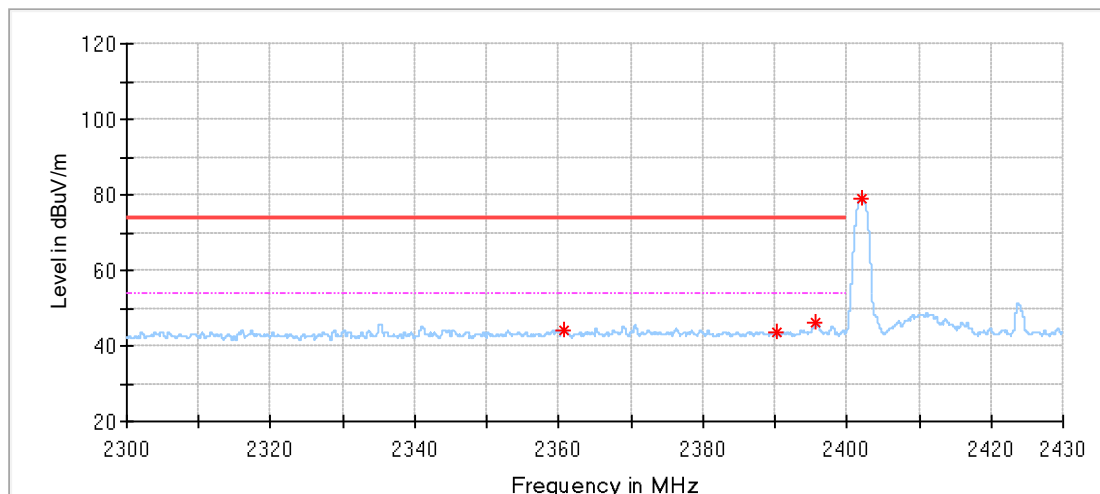
Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.662000	46.44	74.00	27.56	150.0	H	183.0	-2.12
2390.350000	44.13	74.00	29.87	150.0	H	146.0	-1.91
2399.996000	52.07	74.00	21.93	150.0	H	201.0	-1.76
2401.972000	88.74	---	---	150.0	H	228.0	-1.73

Final_Result

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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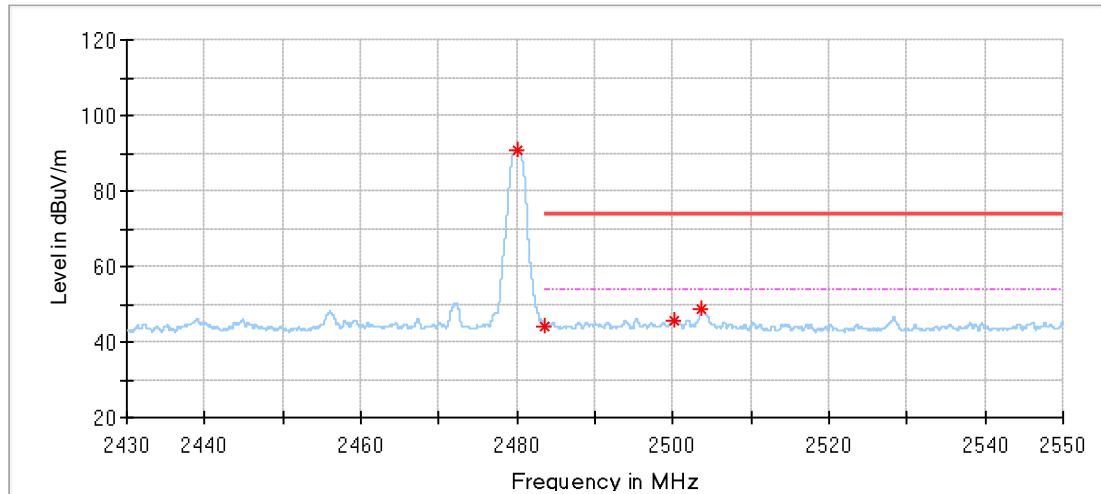
3DH5_2402MHz - Vertical:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2360.788000	44.12	74.00	29.88	150.0	V	284.0	-2.34
2390.220000	43.79	74.00	30.21	150.0	V	43.0	-1.92
2395.576000	45.93	74.00	28.07	150.0	V	203.0	-1.83
2402.076000	78.87	---	---	150.0	V	248.0	-1.73

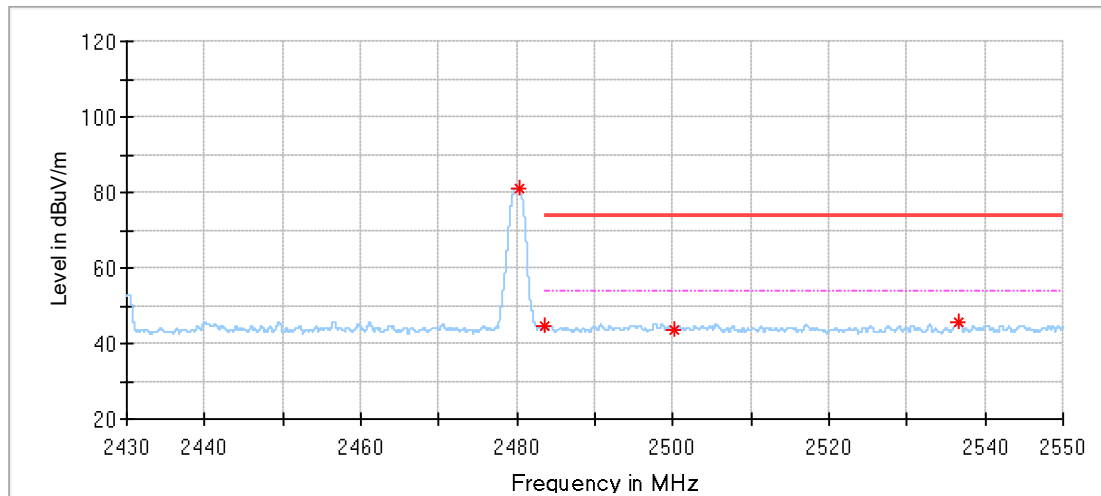
3DH5_2480MHz - Horizontal:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.148000	90.87	---	---	150.0	H	196.0	-1.44
2483.544000	44.07	74.00	29.93	150.0	H	313.0	-1.45
2500.068000	45.69	74.00	28.31	150.0	H	196.0	-1.48
2503.680000	48.50	74.00	25.50	150.0	H	223.0	-1.47

3DH5_2480MHz - Vertical:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.244000	81.02	---	---	150.0	V	227.0	-1.44
2483.496000	44.38	---	---	150.0	V	91.0	-1.45
2500.068000	43.62	74.00	30.38	150.0	V	348.0	-1.48
2536.524000	45.75	74.00	28.25	150.0	V	45.0	-1.19

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

10 Test Equipment List

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	68-4-29-19-003	100747	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

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	2025-10-15

RF 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	2025-10-15

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) 150kHz-30MHz	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) above 18000MHz	Horizontal: 5.29dB Vertical: 5.29dB
Uncertainty for RF Conducted Measurement power	1.12dB
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.

---END OF REPORT---