

Prüfbericht-Nr.: <i>Test report no.:</i>	60431983 001	Auftrags-Nr.: <i>Order no.:</i>	244249980	Seite 1 von 57 <i>Page 1 of 57</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2026829	Auftragsdatum: <i>Order date:</i>	2020-07-06	
Auftraggeber: <i>Client:</i>	AXENT Corporation Ltd. 3 Musick Irvine, CA 92618			
Prüfgegenstand: <i>Test item:</i>	AXENT.ONE C PLUS Intelligent Toilet			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	E314-02 FCC ID: 2AL4G-001			
Auftrags-Inhalt: <i>Order content:</i>	Complete test			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-09-14			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002909057-001~002			
Prüfzeitraum: <i>Testing period:</i>	2020-10-08 - 2020-11-25			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	X <u>Tony C.L. Chen</u> Signed by: Tony C.L. Chen		genehmigt von: <i>authorized by:</i>	X <u>Elliot Zhang</u> Signed by: Elliot Zhang
Datum: <i>Date:</i>	2020-12-20		Ausstellungsdatum: <i>Issue date:</i>	2020-12-20
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / <i>Other:</i>				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V05

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 6dB & 99% BANDWIDTH

RESULT: Pass

5.1.3 PEAK OUTPUT POWER

RESULT: Pass

5.1.4 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS

RESULT: Pass

5.2.1 CONDUCTED EMISSION

RESULT: Pass

5.3.1 RADIATED BAND-EDGE

RESULT: Pass

5.3.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.

Shanghai TUV Rheinland Building No. 177, 178 Lane 777, West Guangzhong Rd, Jing'an District, Shanghai, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 958801.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 2932F.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
3m Anechoic Chamber	Frankonia	SAC3	FJ129002	2021-05-13
EMI Test Receiver	R&S	ESCI	100280	2021-10-31
Spectrum Analyzer	R&S	FSV40	101258	2021-10-31
BiLog Antenna	Teseq	CBL 6112D	40530	2021-02-13
Log-periodic Antenna	R&S	HL050	100692	2021-02-16
Preamplifier	Taiwan EMC Instruments Corporation	EMC051845SE	980612	2021-03-05
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	9170-305	2021-07-09
Preamplifier	Taiwan EMC Instruments Corporation	EMC184045SE	980596	2021-03-05
Spectrum Analyzer	Keysight	N9020A	MY54500180	2021-05-09
DC Power Supply	ALLPOWER	ADC50-20	99223	2021-10-12
Thermohygrometer	Testo	608-H1	1241320614	2021-10-13
EMI test receiver	R&S	ESIB26	G1811380	2021-03-06
Artificial main network	R&S	ENV432	G1830003	2021-11-01
EMC measurement software	R&S	EMC32	G1824845	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

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2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	9kHz – 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is an ordinary intelligent toilet which support Bluetooth Low Energy.

The aim of this report is to evaluate the RF characteristic of the Bluetooth Low Energy Part of this module.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	AXENT.ONE C PLUS Intelligent Toilet
Model No.:	E314-02
Rated Voltage:	AC120 V~ 60 Hz, 1300W
Bluetooth Low Energy	
Frequency Range:	2402 to 2480MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-2.5 dBi

3.3 Independent Operation Modes

Table 4: Independent Operation Modes

Test Mode	Channel	Frequency
TM1	00	2402
TM2	19	2440
TM3	39	2480
TM4	Normal Operating Mode	

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Null.

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT:**Pass**

According to the manufacturer declared, the EUT has one PCB antenna, the directional gain of antenna is -2.5dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 5: Antenna Requirement

FCC 15.203 – Antenna Requirement 1	
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device
Results:	Antenna type: PCB antenna
Verdict:	Pass

FCC 15.204 – Antenna Requirement 2	
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one integral antenna can be used
Verdict:	Pass

5.1.2 6dB & 99% Bandwidth**RESULT:****Pass**

Date of testing : 2020-11-25
Ambient temperature : 20.6°C
Relative humidity : 58.6%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(2)
Test procedure : KDB 558074 D01v05r02
Test voltage : AC 120V, 60Hz
Test modes applied : TM1 to TM3

Table 6: 6dB & 99% Bandwidth

Test Mode	CH.	Freq. [MHz]	6dB Bandwidth [kHz]	99% Bandwidth [kHz]
TM1	00	2402	676.3	1129.0
TM2	19	2440	691.6	1135.8
TM3	39	2480	745.6	1173.0

Note:

For frequency hopping systems operating in the 2400 – 2483.5MHz band, no bandwidth limit is specified. The test data is provide for reference.

And according to FCC, when the occupied bandwidth limit is not stated in the applicable FCC or reference measurement method, the transmitted signal band width shall be reported as the 99% emission bandwidth.

Figure 1: 6dB Bandwidth, 2402MHz



Figure 2: 6dB Bandwidth, 2440MHz

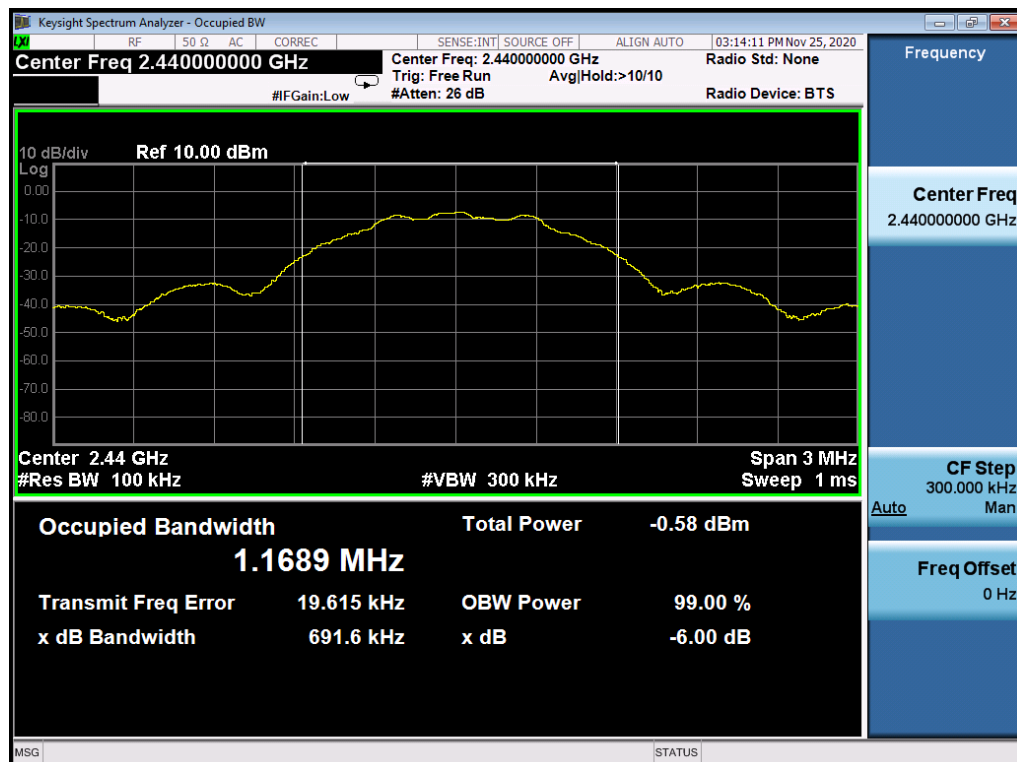


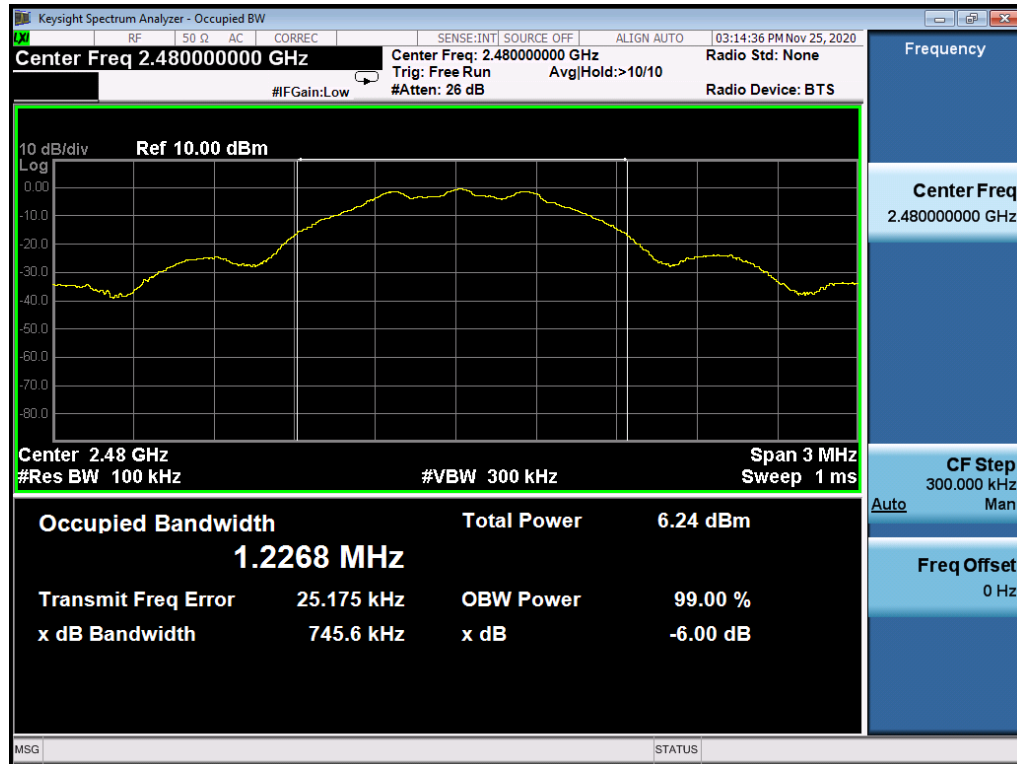
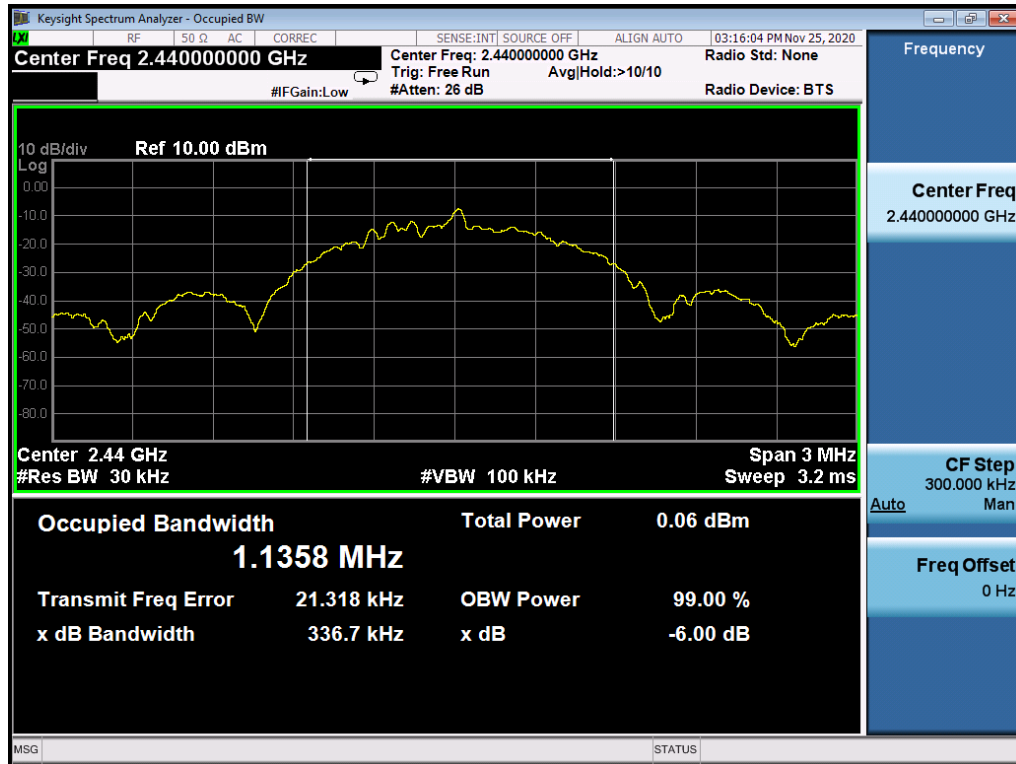
Figure 3: 6dB Bandwidth, 2480MHz

Figure 4: 99% Bandwidth, 2402MHz


Figure 5: 99% Bandwidth, 2440MHz

Figure 6: 99% Bandwidth, 2480MHz


5.1.3 Peak Output Power

RESULT:
Pass

Date of testing : 2020-11-25
 Ambient temperature : 23.1°C
 Relative humidity : 48.5%
 Atmospheric pressure : 101kPa
 Test requirement : FCC Part 15.247(b)(3)
 Test procedure : KDB 558074 D01v05r02
 Test voltage : AC 120V, 60Hz
 Test modes applied : TM1 to TM3

Table 7: Peak Output Power

Mode	Antenna Gain [dBi]	CH.	Freq. [MHz]	Maximum Peak Conducted Output Power [dBm]	Peak Conducted Output Power Limit [dBm]	Maximum EIRP [dBm]	EIRP Limit [dBm]
TM1	-2.5	00	2402	-11.633	30	-14.133	36
TM2		19	2440	-7.330	30	-9.830	36
TM3		39	2480	-0.654	30	-3.154	36

Note:

EIRP=Peak Conducted Output Power + Antenna Gain

5.1.4 Power Spectral Density

RESULT:
Pass

Date of testing : 2020-11-25
 Ambient temperature : 21.4°C
 Relative humidity : 56.1%
 Atmospheric pressure : 101kPa
 Test requirement : FCC Part 15.247(e)
 Test procedure : KDB 558074 D01v05r02
 Test voltage : AC 120V, 60Hz
 Test modes applied : TM1 to TM3

Table 8: Power Spectral Density

Mode	CH.	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
TM1	00	2402	-21.247	8
TM2	19	2440	-18.462	8
TM3	39	2480	-12.344	8

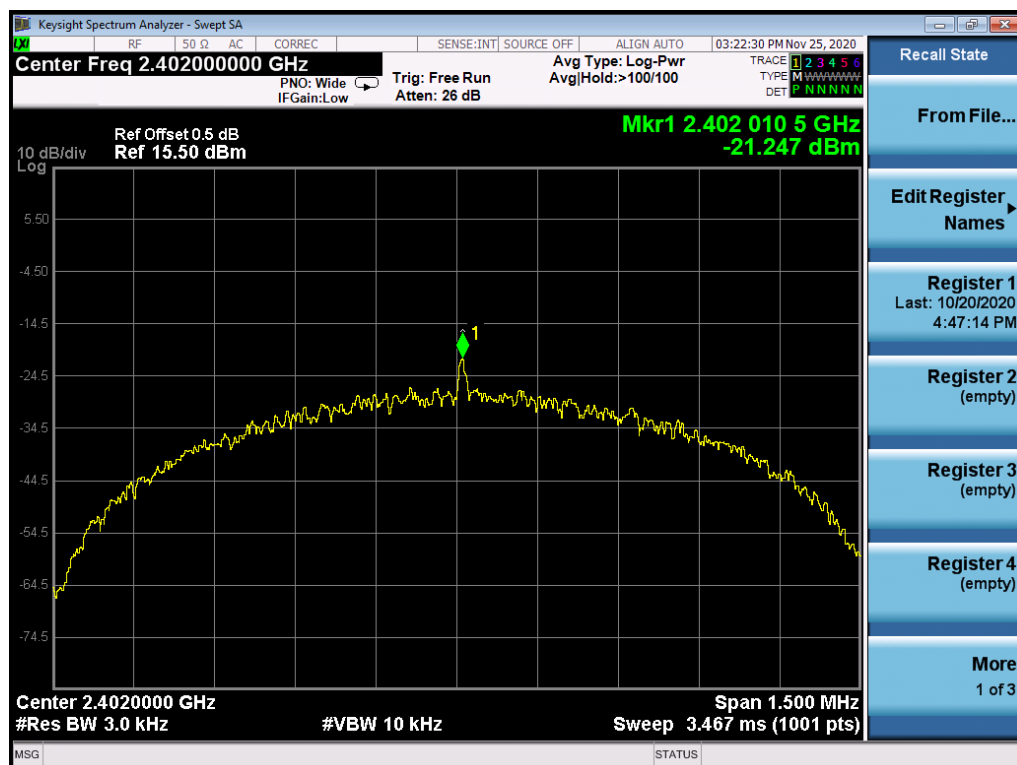
Figure 7: Power Spectral Density, 2402MHz


Figure 8: Power Spectral Density, 2440MHz

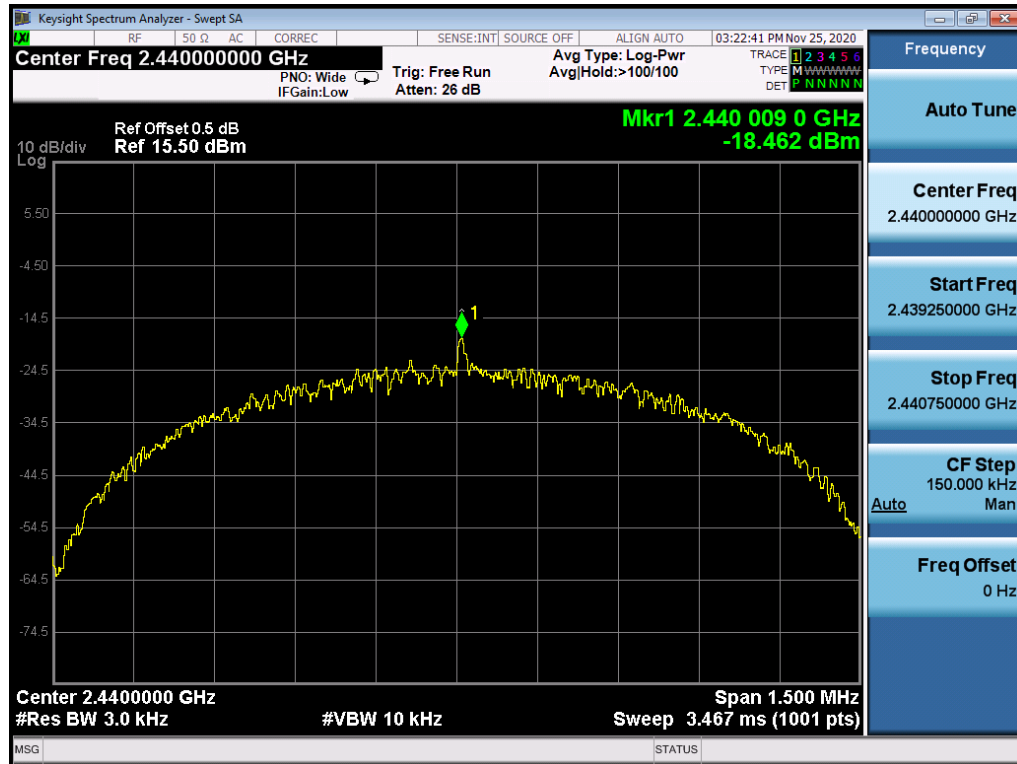
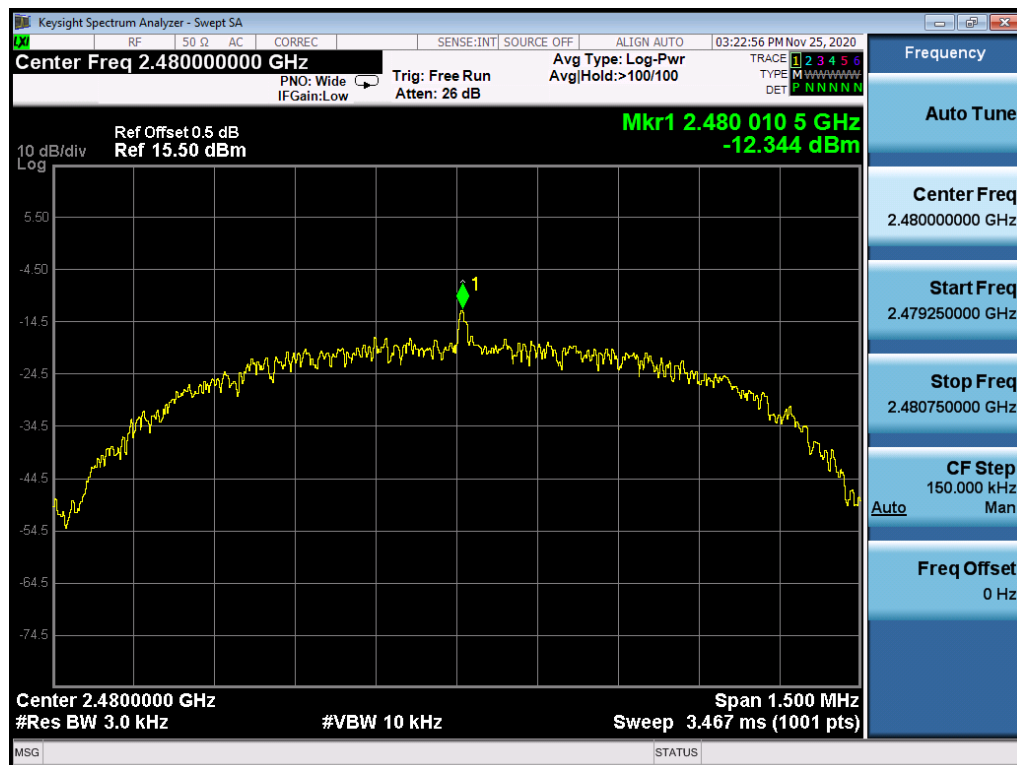


Figure 9: Power Spectral Density, 2480MHz



5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT:

Pass

Date of testing : 2020-11-25
 Ambient temperature : 21.4°C
 Relative humidity : 56.1%
 Atmospheric pressure : 101kPa
 Test requirement : FCC Part 15.247(d)
 Test procedure : KDB 558074 D01v05r02
 Test voltage : AC 120V, 60Hz
 Test modes applied : TM1 to TM3

Figure 10: Reference level, 2402MHz

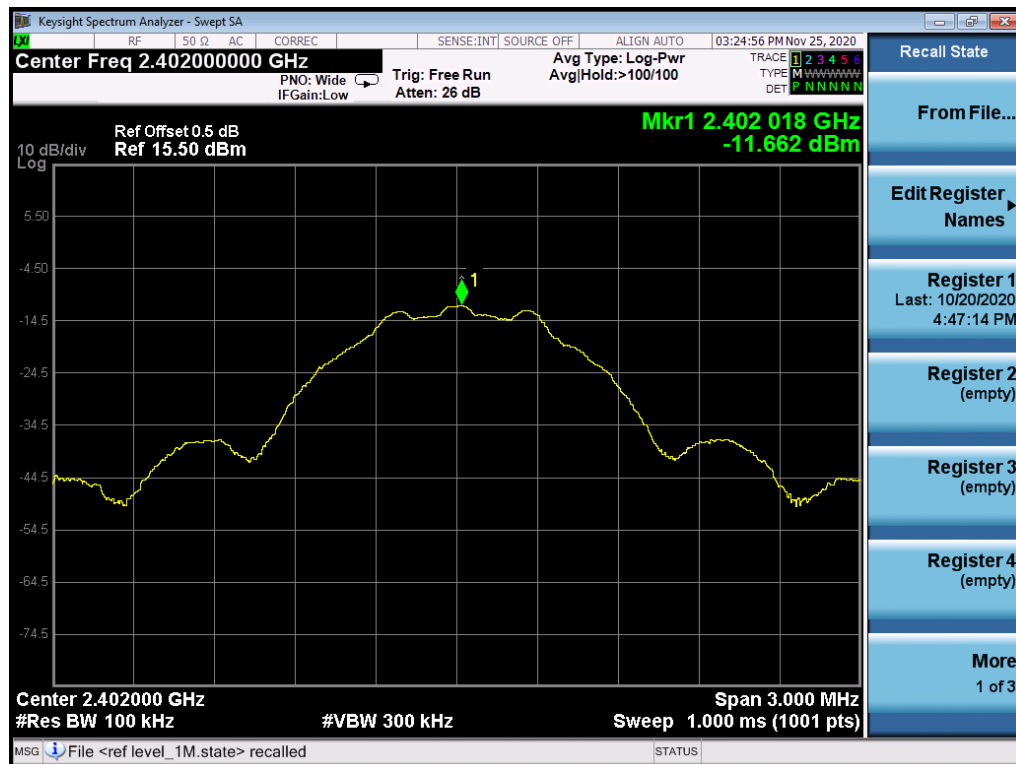


Figure 11: Reference level, 2440MHz

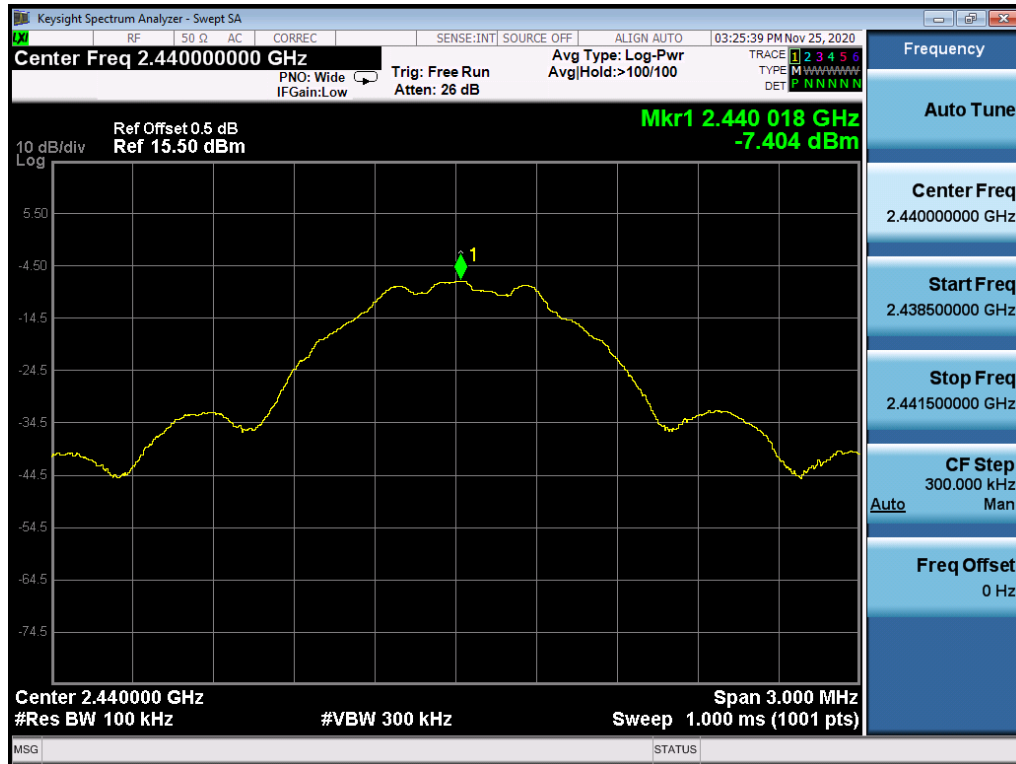


Figure 12: Reference level, 2480MHz

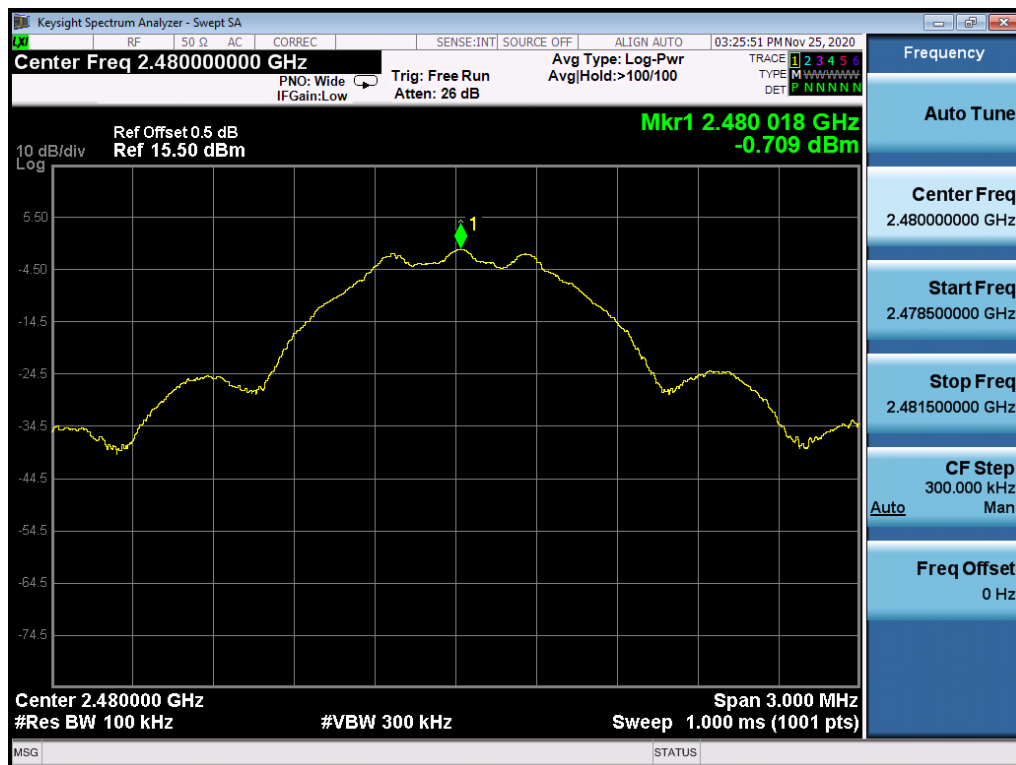


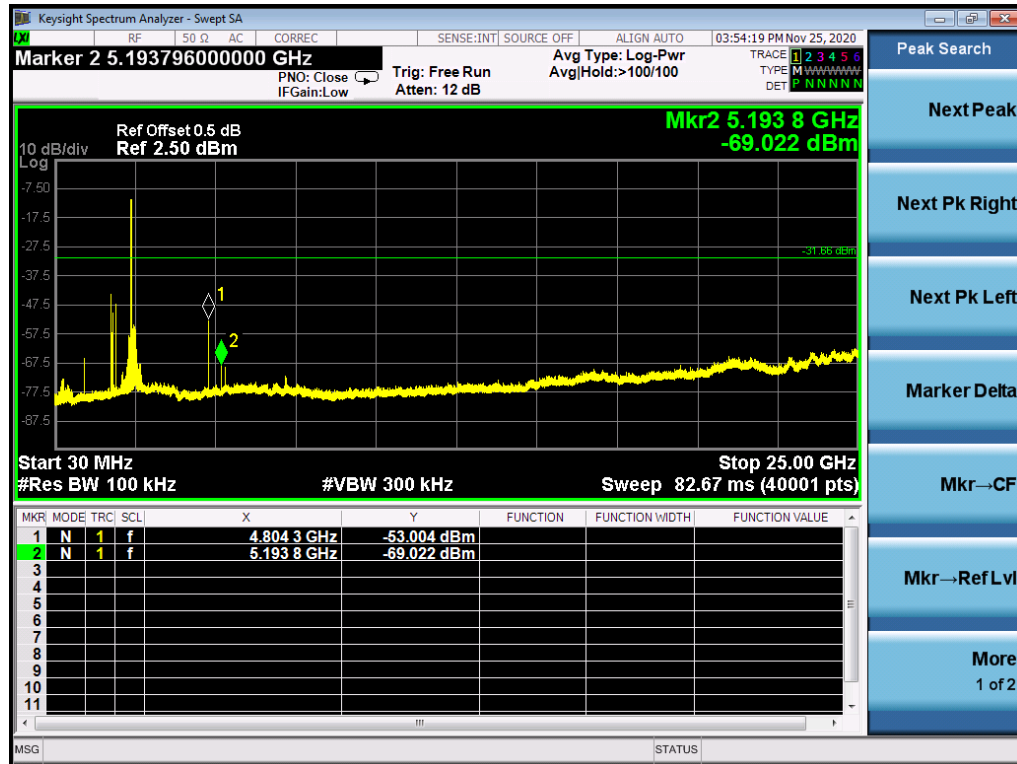
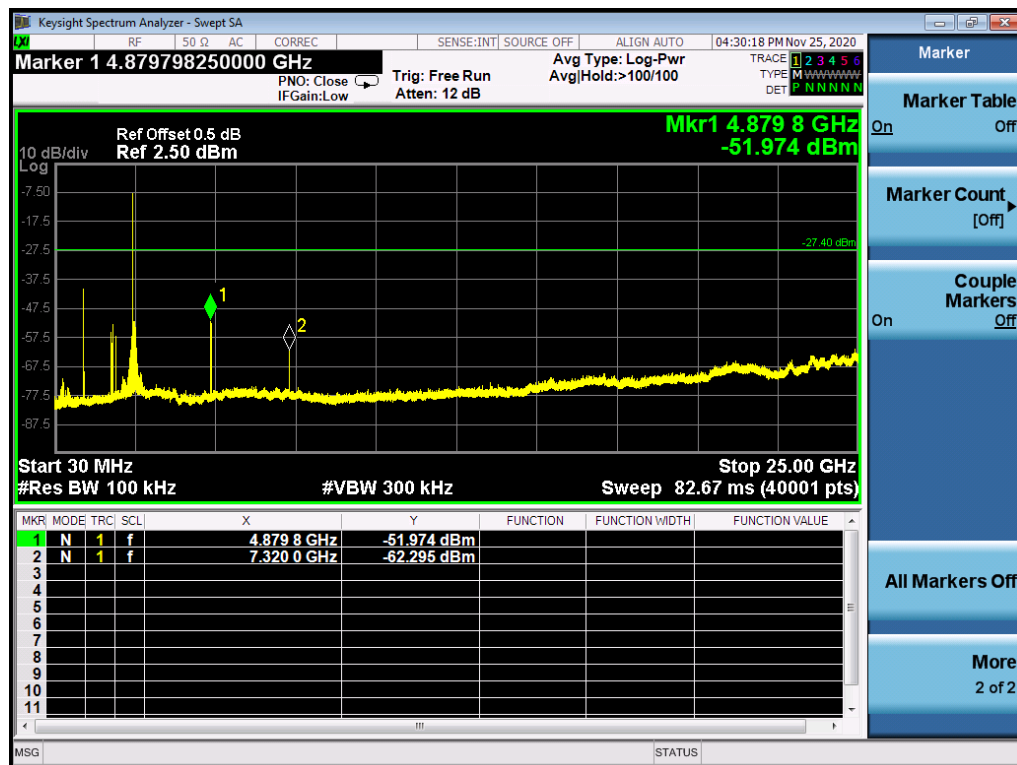
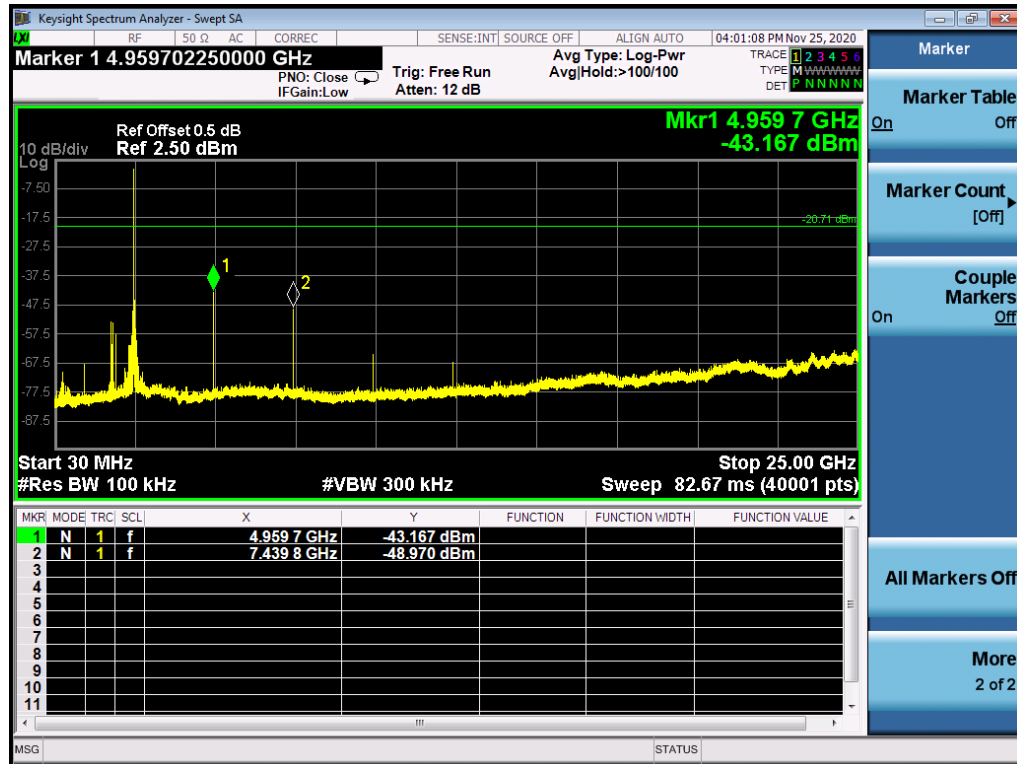
Figure 13: Conducted Spurious Emission, 2402MHz

Figure 14: Conducted Spurious Emission, 2440MHz


Figure 15: Conducted Spurious Emission, 2480MHz

Figure 16: Conducted Band Edge, Lower Band



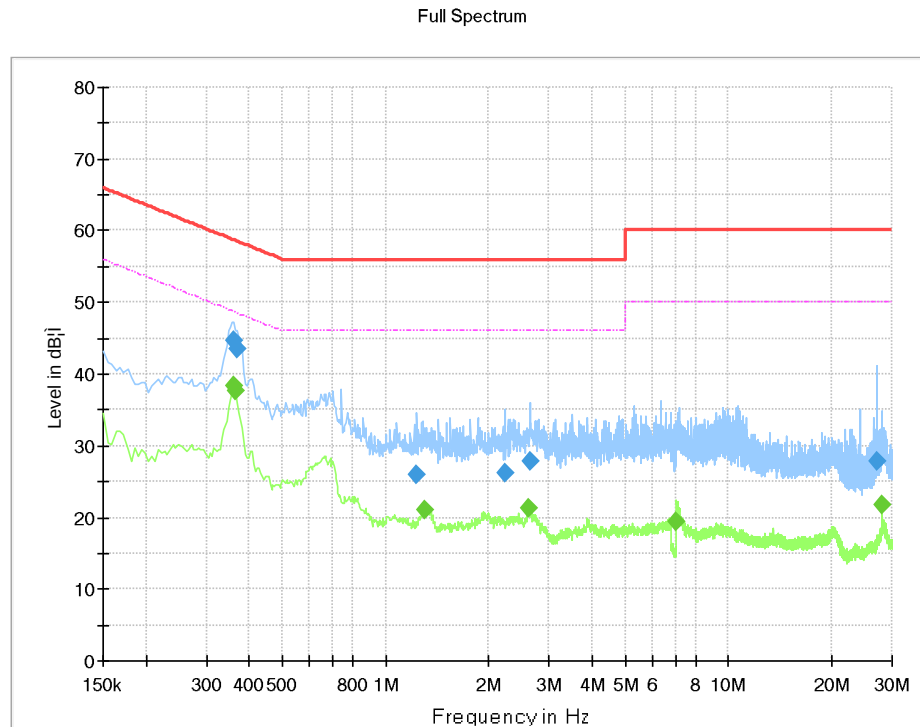

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5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:**Pass**

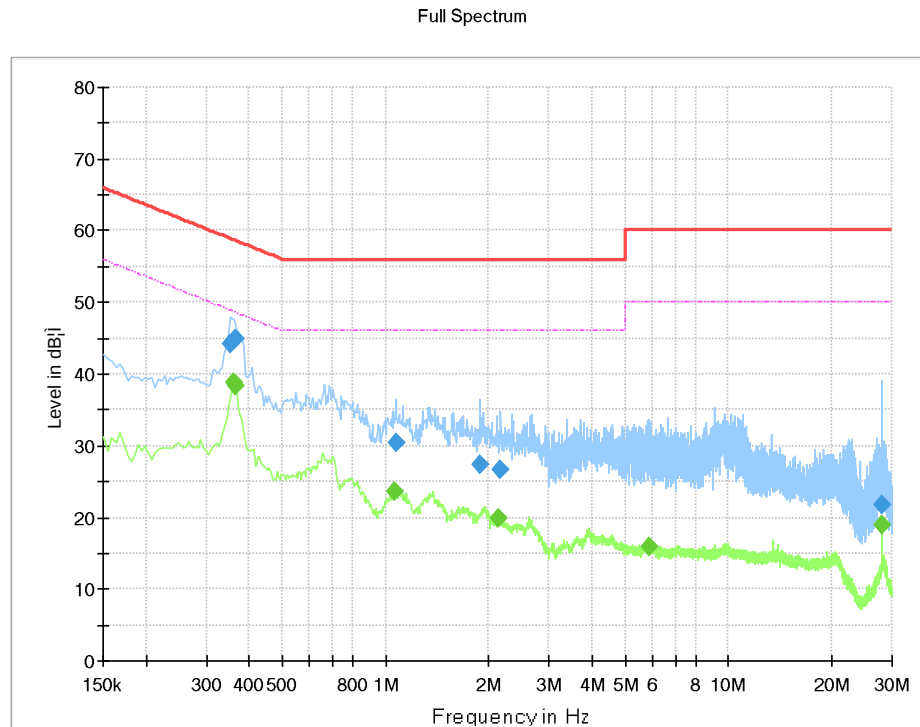
Date of testing	: 2020-11-25
Ambient temperature	: 26.1°C
Relative humidity	: 32.7%
Atmospheric pressure	: 101kPa
Test requirement	: FCC Part 15.207 (a)
Test procedure	: KDB 558074 D01v05r02
Test voltage	: AC 120V, 60Hz
Test modes applied	: TM4

Figure 18: Conducted Emission, L

Table 9: Conducted Emission, L, Final Result_QPK

Frequency [MHz]	QuasiPeak [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.361500	44.78	58.69	13.92	1000.0	9.000	L1	10.4
0.370500	43.51	58.49	14.98	1000.0	9.000	L1	10.4
1.234500	25.92	56.00	30.08	1000.0	9.000	L1	10.5
2.238000	26.23	56.00	29.77	1000.0	9.000	L1	10.5
2.634000	27.76	56.00	28.24	1000.0	9.000	L1	10.5
27.231000	27.89	60.00	32.11	1000.0	9.000	L1	11.5

Table 10: Conducted Emission, L, Final Result_CAV

Frequency [MHz]	CAverage [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.361500	38.28	48.69	10.42	1000.0	9.000	L1	10.4
0.366000	37.77	48.59	10.82	1000.0	9.000	L1	10.4
1.306500	21.02	46.00	24.98	1000.0	9.000	L1	10.5
2.611500	21.19	46.00	24.81	1000.0	9.000	L1	10.5
7.066500	19.42	50.00	30.58	1000.0	9.000	L1	10.7
27.991500	21.66	50.00	28.34	1000.0	9.000	L1	11.6

Figure 19: Conducted Emission, N

Table 11: Conducted Emission, N, Final Result_QPK

Frequency [MHz]	QuasiPeak [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.352500	44.16	58.90	14.74	1000.0	9.000	N	10.4
0.366000	44.89	58.59	13.70	1000.0	9.000	N	10.4
1.072500	30.33	56.00	25.67	1000.0	9.000	N	10.5
1.882500	27.27	56.00	28.73	1000.0	9.000	N	10.5
2.166000	26.60	56.00	29.40	1000.0	9.000	N	10.5
28.090500	21.86	60.00	38.14	1000.0	9.000	N	11.8

Table 12: Conducted Emission, N, Final Result_CAV

Frequency [MHz]	CAverage [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.361500	38.80	48.69	9.90	1000.0	9.000	N	10.4
0.366000	38.33	48.59	10.26	1000.0	9.000	N	10.4
1.063500	23.59	46.00	22.41	1000.0	9.000	N	10.5
2.125500	19.80	46.00	26.20	1000.0	9.000	N	10.5
5.874000	16.00	50.00	34.00	1000.0	9.000	N	10.7
27.996000	18.95	50.00	31.05	1000.0	9.000	N	11.8

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5.3 Emission in the Frequency Range above 30MHz

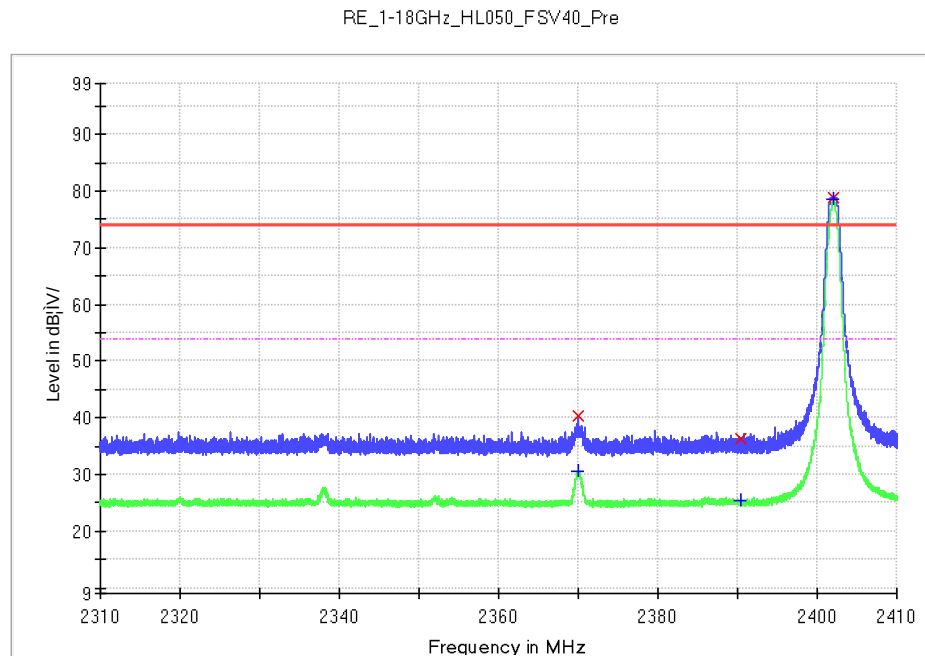
5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	:	2020-11-18
Ambient temperature	:	26.1°C
Relative humidity	:	32.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC 15.247(d) FCC 15.205(a) FCC 15.209(a)
Test procedure	:	KDB 558074 D01v05r02
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	TM1, TM3

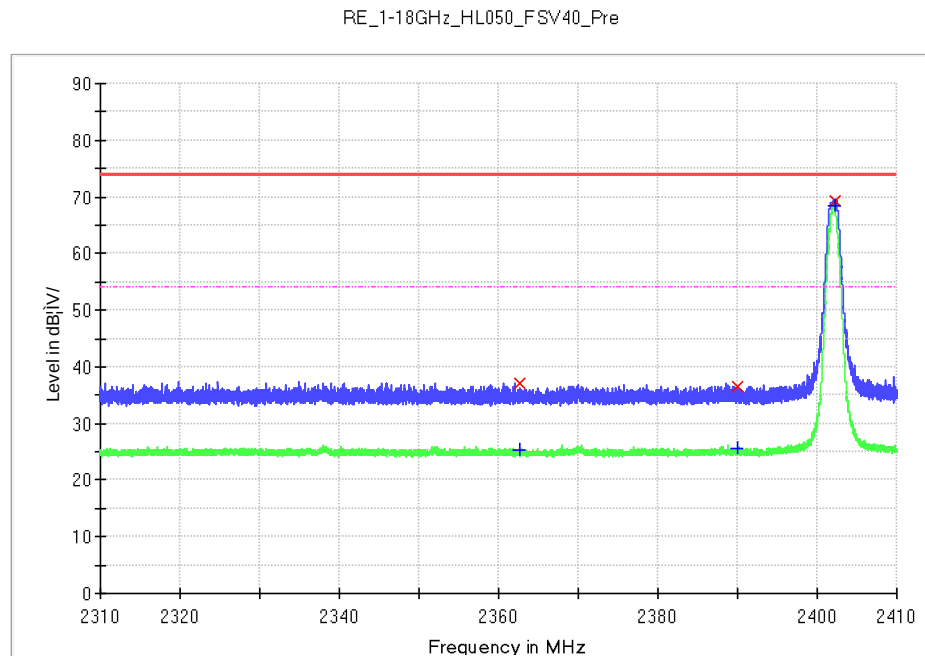
Note:

All the test modes were applied, only the worst case were shown in this report.

Figure 20: Radiated Band-Edge, TM1, H

Table 13: Radiated Band-Edge, TM1, H

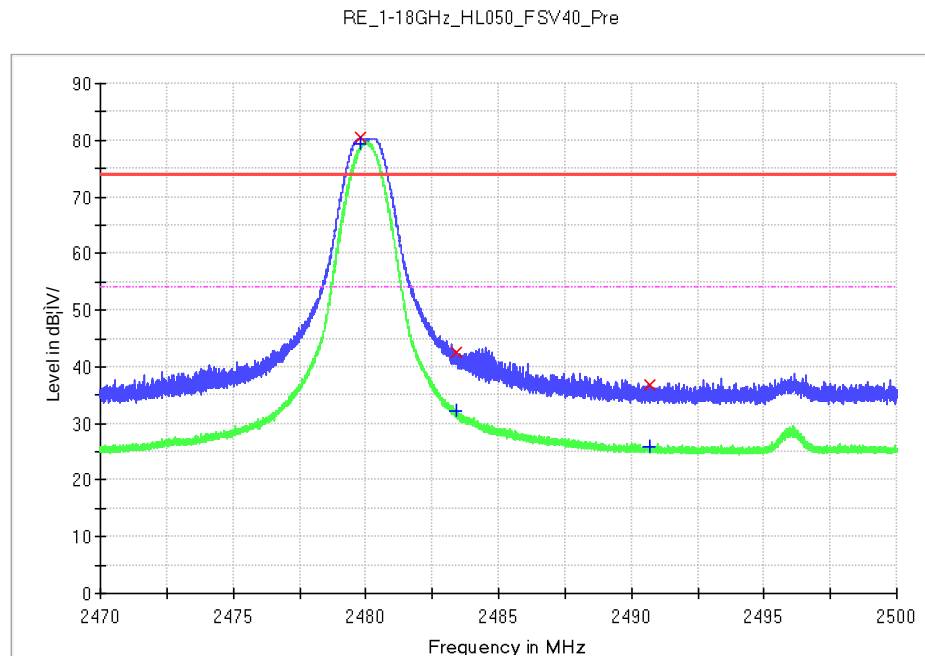
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2369.933333	40.2	1000.0	1000.000	H	-14.6	33.8	74.0
2390.308333	36.2	1000.0	1000.000	H	-14.5	37.8	74.0
2402.025000	78.9	1000.0	1000.000	H	-14.5	-4.9	74.0

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Figure 21: Radiated Band-Edge, TM1, V

Table 14: Radiated Band-Edge, TM1, V

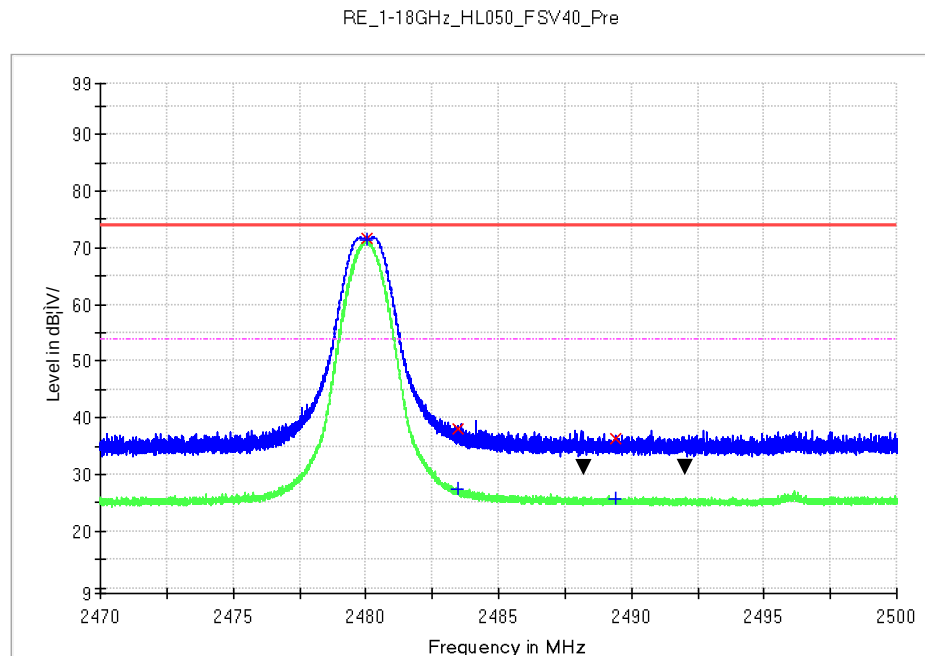
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2362.583333	37.2	1000.0	1000.000	V	-14.7	36.8	74.0
2389.925000	36.5	1000.0	1000.000	V	-14.5	37.5	74.0
2402.241667	69.2	1000.0	1000.000	V	-14.4	4.8	74.0

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Figure 22: Radiated Band-Edge, TM3, H

Table 15: Radiated Band-Edge, TM3, H

Frequency (MHz)	MaxPeak (dB µV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dB µV/m)
2479.815000	80.4	1000.0	1000.000	H	-14.2	-6.4	74.0
2483.432500	42.6	1000.0	1000.000	H	-14.2	31.4	74.0
2490.705000	36.9	1000.0	1000.000	H	-14.2	37.1	74.0

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Figure 23: Radiated Band-Edge, TM3, V

Table 16: Radiated Band-Edge, TM3, V

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2480.015000	71.8	1000.0	1000.000	V	-14.2	2.2	74.0
2483.492500	37.9	1000.0	1000.000	V	-14.2	36.1	74.0
2489.402500	36.4	1000.0	1000.000	V	-14.2	37.6	74.0

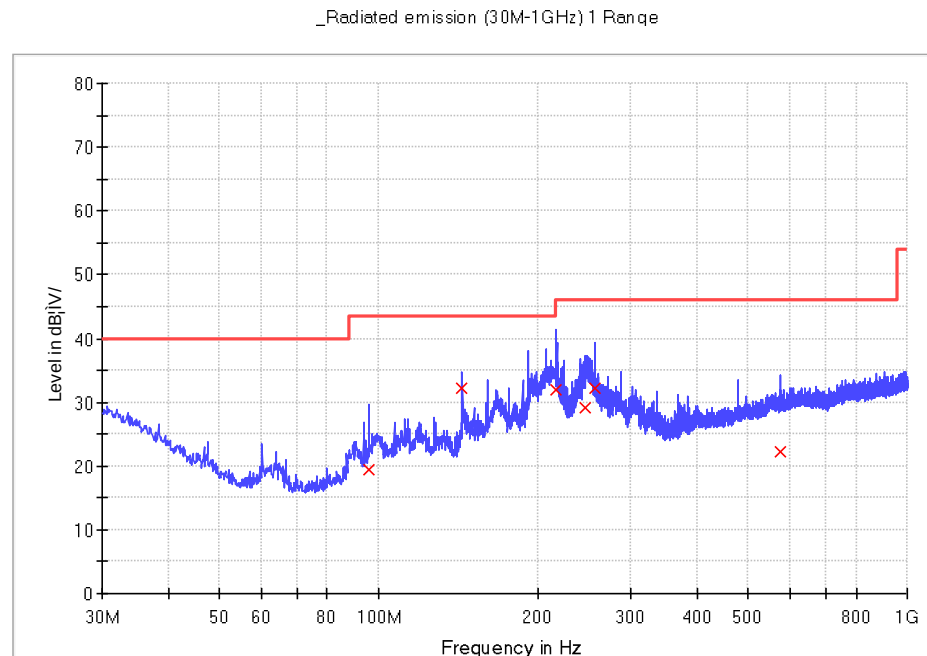
Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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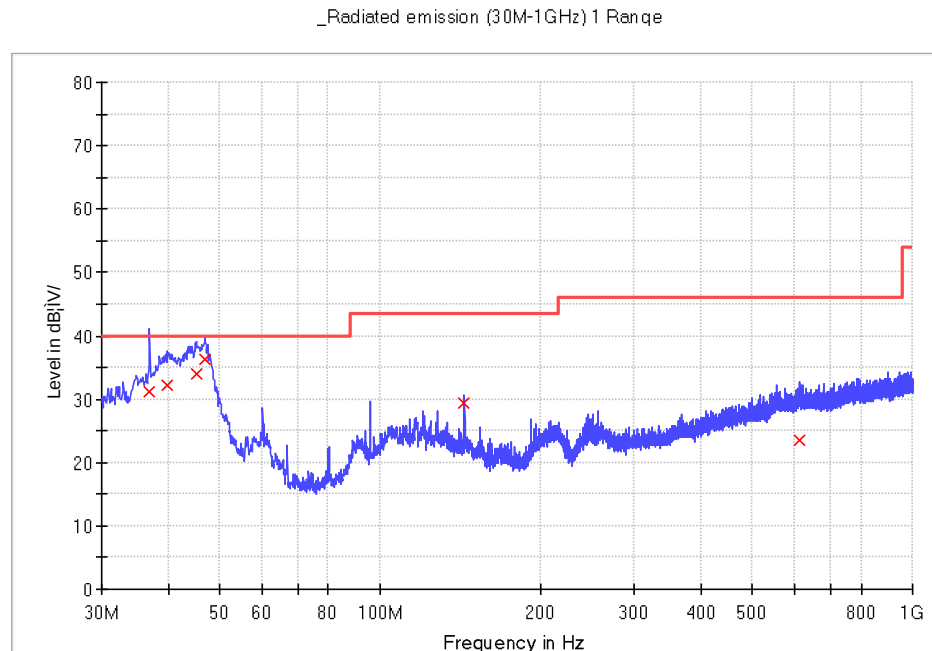
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

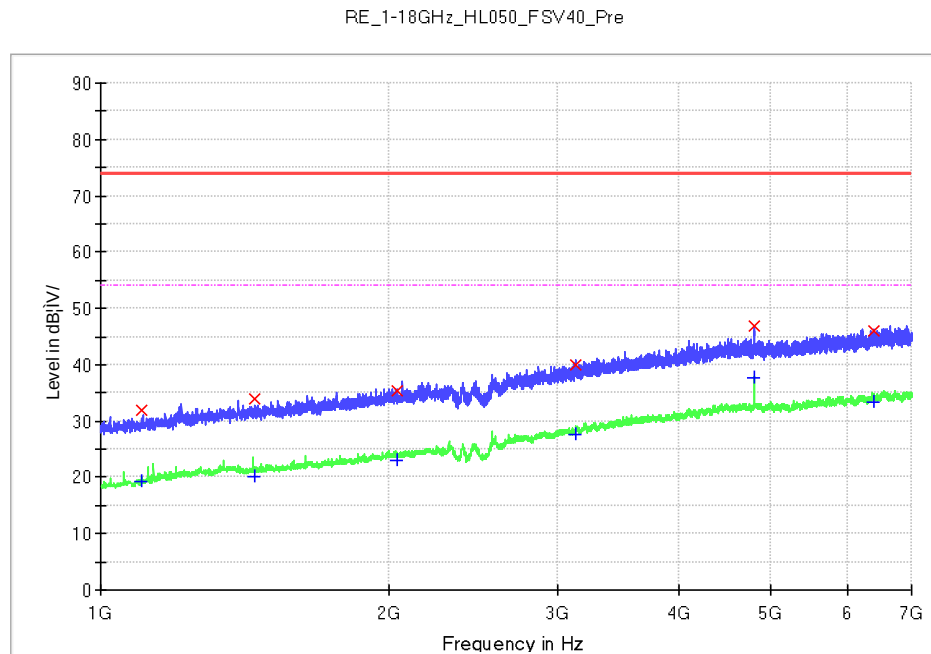
Date of testing	:	2020-11-18
Ambient temperature	:	23.2°C
Relative humidity	:	38.5%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.209(a) FCC Part 15.247(d)
Test procedure	:	KDB 558074 D01v05r02
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	TM1 to TM3
Kind of test site	:	3m Anechoic Chamber

Figure 24: Radiated Spurious Emission, TM1, 30MHz to 1GHz, H

Table 17: Radiated Spurious Emission, TM1, 30MHz to 1GHz, H

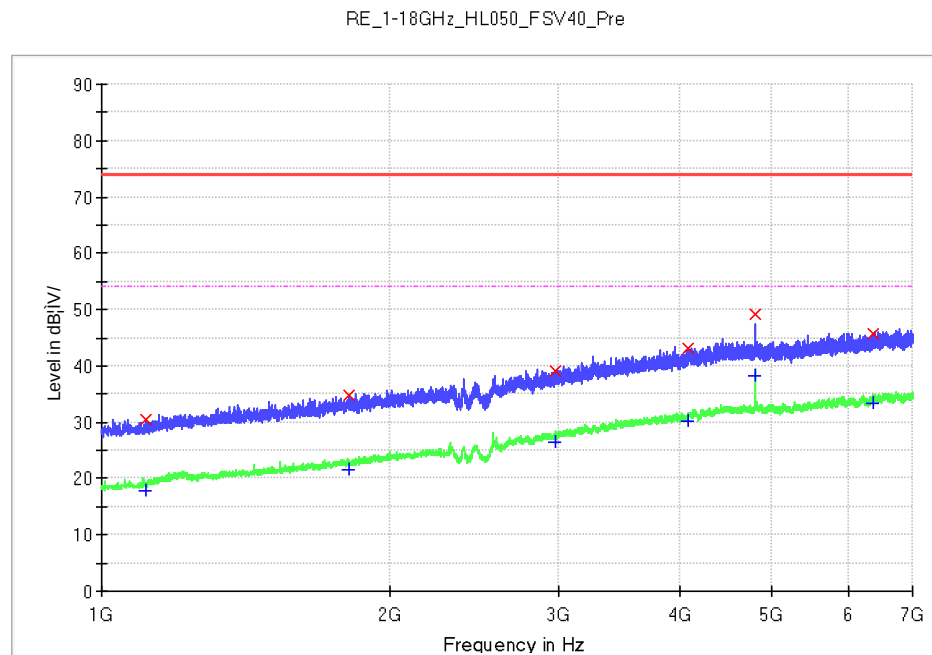
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
95.940000	19.3	1000.0	120.000	H	16.8	24.2	43.5
144.000000	32.1	1000.0	120.000	H	17.8	11.4	43.5
216.600000	32.0	1000.0	120.000	H	15.7	14.0	46.0
246.060000	29.0	1000.0	120.000	H	18.8	17.0	46.0
256.020000	32.3	1000.0	120.000	H	20.1	13.7	46.0
576.120000	22.1	1000.0	120.000	H	26.1	23.9	46.0

Figure 25: Radiated Spurious Emission, TM1, 30MHz to 1GHz, V

Table 18: Radiated Spurious Emission, TM1, 30MHz to 1GHz, V

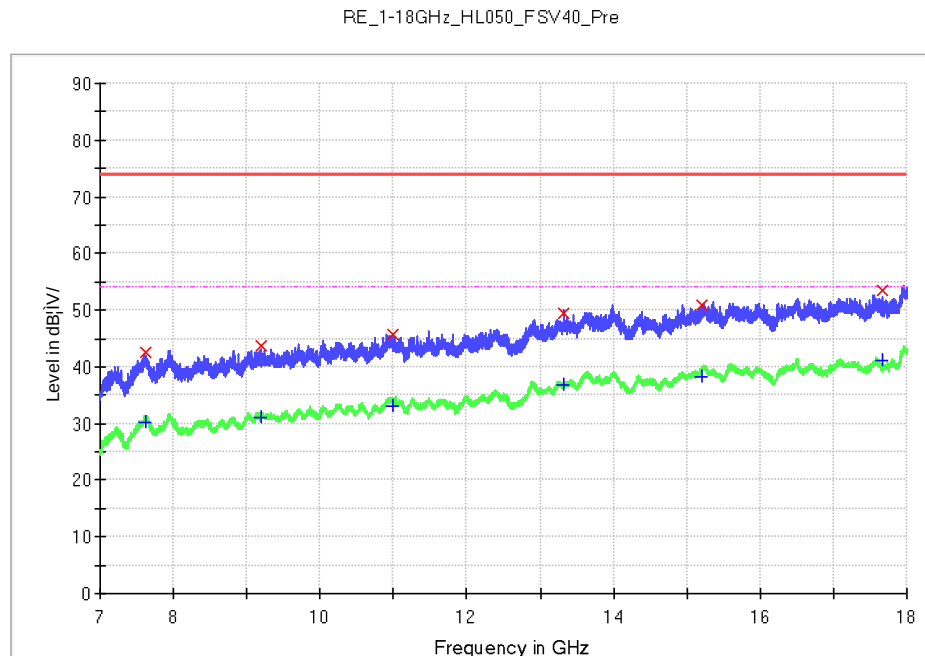
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
36.960000	31.1	1000.0	120.000	V	21.5	8.9	40.0
39.840000	32.1	1000.0	120.000	V	20.1	7.9	40.0
45.180000	34.1	1000.0	120.000	V	16.9	5.9	40.0
46.860000	36.4	1000.0	120.000	V	16.2	3.6	40.0
144.000000	29.4	1000.0	120.000	V	17.8	14.1	43.5
613.920000	23.5	1000.0	120.000	V	26.3	22.5	46.0

Figure 26: Radiated Spurious Emission, TM1, 1GHz to 7GHz, H

Table 19: Radiated Spurious Emission, TM1, 1GHz to 7GHz, H

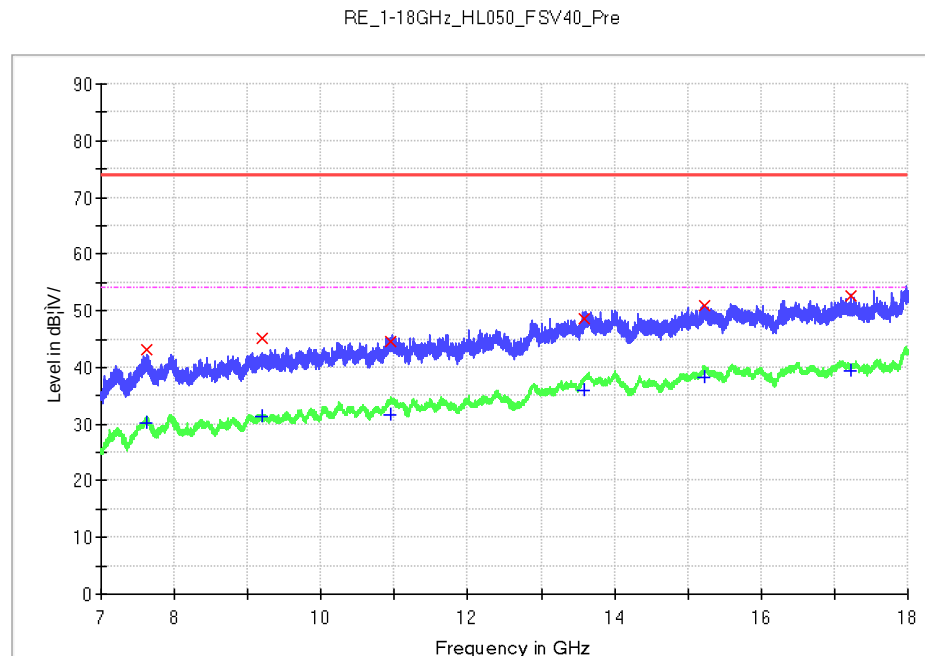
Frequency (MHz)	MaxPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dB μ V/m)
1104.000000	31.9	1000.0	1000.000	H	-21.8	42.1	74.0
1447.500000	34.0	1000.0	1000.000	H	-19.3	40.0	74.0
2039.000000	35.5	1000.0	1000.000	H	-16.1	38.5	74.0
3129.000000	40.0	1000.0	1000.000	H	-11.1	34.0	74.0
4805.000000	46.8	1000.0	1000.000	H	-6.5	27.2	74.0
6401.000000	45.9	1000.0	1000.000	H	-4.8	28.1	74.0

Figure 27: Radiated Spurious Emission, TM1, 1GHz to 7GHz, V

Table 20: Radiated Spurious Emission, TM1, 1GHz to 7GHz, V

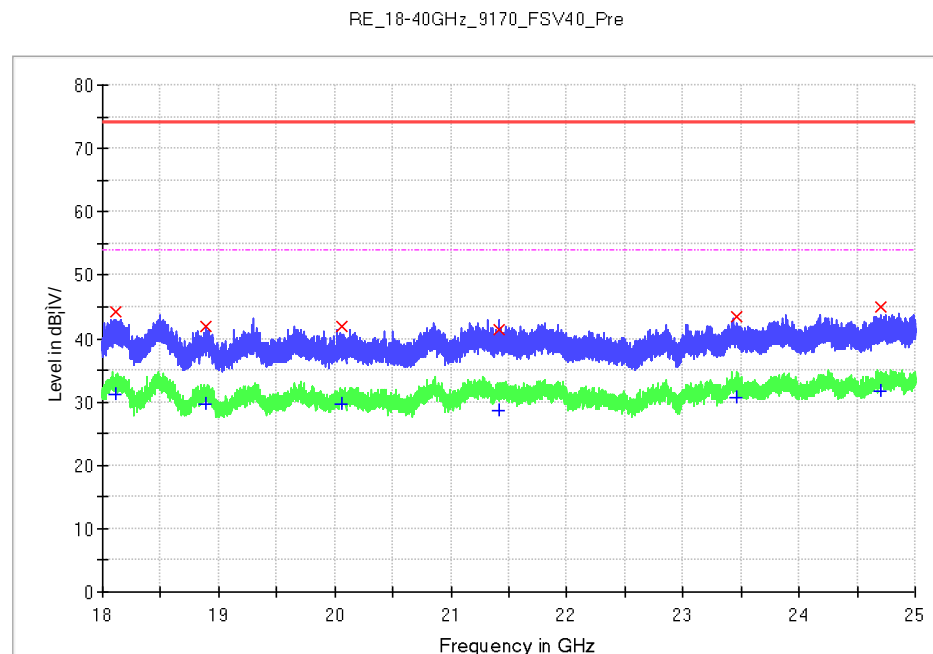
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1114.000000	30.5	1000.0	1000.000	V	-21.7	43.5	74.0
1808.500000	34.6	1000.0	1000.000	V	-17.4	39.4	74.0
2965.500000	39.1	1000.0	1000.000	V	-11.9	34.9	74.0
4082.500000	43.0	1000.0	1000.000	V	-8.0	31.0	74.0
4804.500000	49.2	1000.0	1000.000	V	-6.5	24.8	74.0
6374.500000	45.8	1000.0	1000.000	V	-4.9	28.2	74.0

Figure 28: Radiated Spurious Emission, TM1, 7GHz to 18GHz, H

Table 21: Radiated Spurious Emission, TM1, 7GHz to 18GHz, H

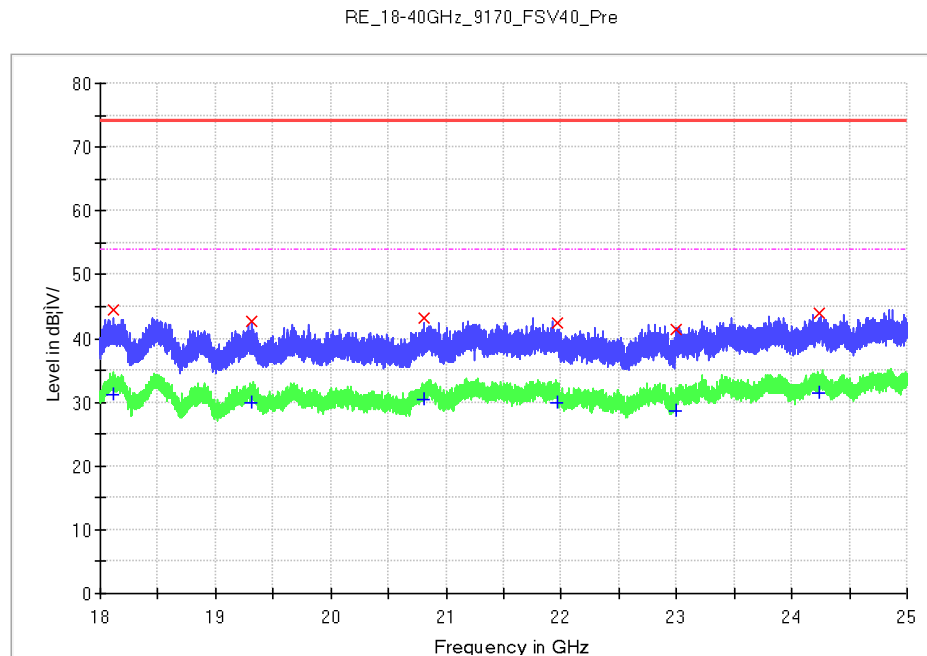
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
7611.416667	42.6	1000.0	1000.000	H	-3.2	31.4	74.0
9201.833333	43.7	1000.0	1000.000	H	-0.8	30.3	74.0
11000.333333	45.9	1000.0	1000.000	H	1.0	28.1	74.0
13325.916667	49.4	1000.0	1000.000	H	3.1	24.6	74.0
15204.166667	50.8	1000.0	1000.000	H	6.4	23.2	74.0
17659.000000	53.3	1000.0	1000.000	H	9.5	20.7	74.0

Figure 29: Radiated Spurious Emission, TM1, 7GHz to 18GHz, V

Table 22: Radiated Spurious Emission, TM1, 7GHz to 18GHz, V

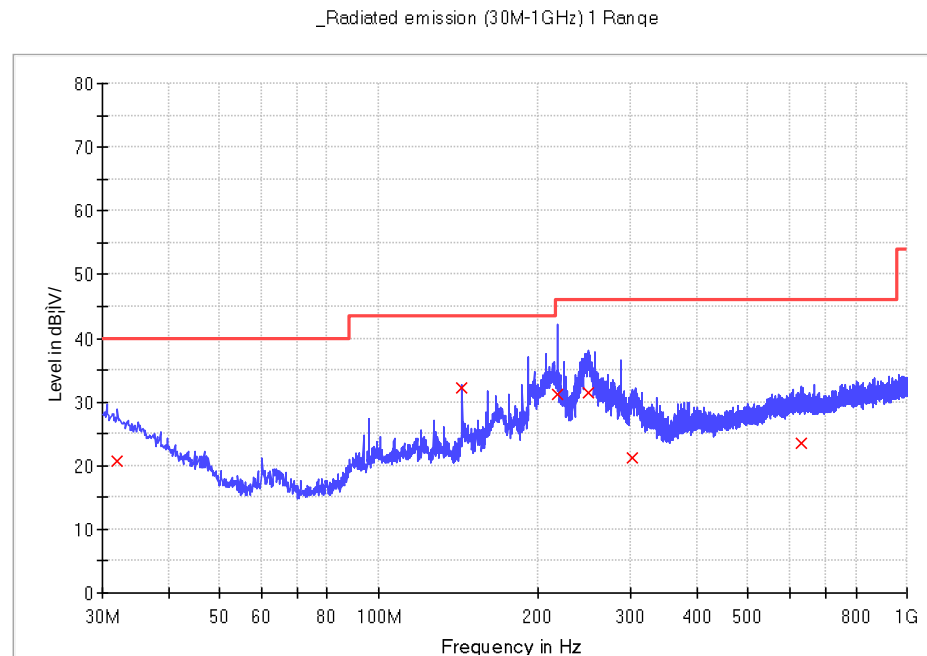
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
7612.333333	43.3	1000.0	1000.000	V	-3.2	30.7	74.0
9191.750000	45.1	1000.0	1000.000	V	-0.8	28.9	74.0
10945.333333	44.6	1000.0	1000.000	V	0.9	29.4	74.0
13591.750000	48.7	1000.0	1000.000	V	3.7	25.3	74.0
15224.333333	51.0	1000.0	1000.000	V	6.4	23.0	74.0
17215.333333	52.5	1000.0	1000.000	V	8.1	21.5	74.0

Figure 30: Radiated Spurious Emission, TM1, 18GHz to 25GHz, H

Table 23: Radiated Spurious Emission, TM1, 18GHz to 25GHz, H

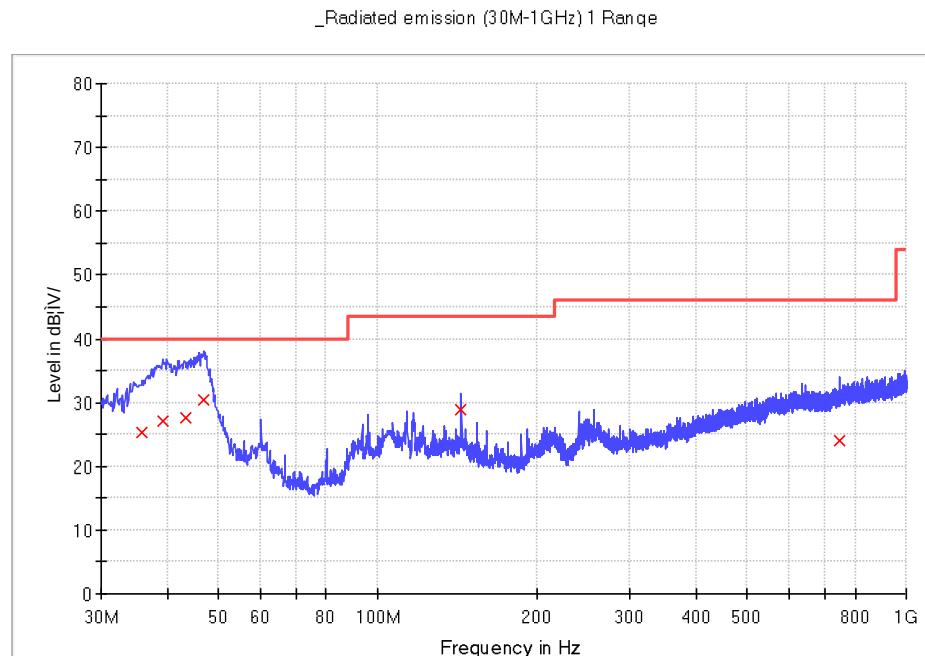
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18117.468750	44.1	1000.0	1000.000	H	-8.8	29.9	74.0
18895.781250	42.0	1000.0	1000.000	H	-9.4	32.0	74.0
20054.500000	42.0	1000.0	1000.000	H	-7.7	32.0	74.0
21418.625000	41.5	1000.0	1000.000	H	-6.1	32.5	74.0
23463.937500	43.5	1000.0	1000.000	H	-4.3	30.5	74.0
24702.281250	44.9	1000.0	1000.000	H	-3.6	29.1	74.0

Figure 31: Radiated Spurious Emission, TM1, 18GHz to 25GHz, V

Table 24: Radiated Spurious Emission, TM1, 18GHz to 25GHz, V

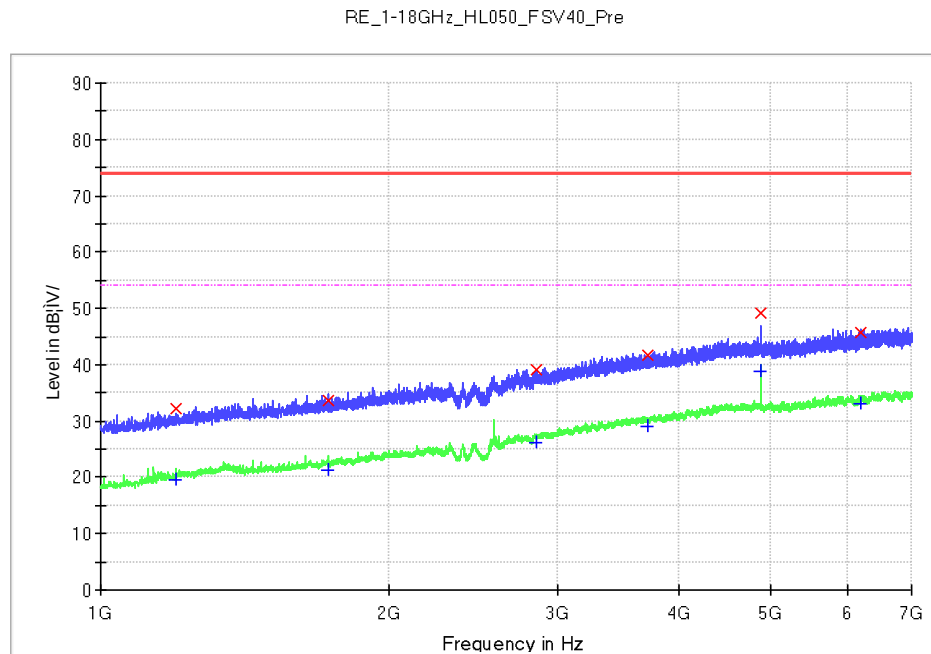
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18114.843750	44.4	1000.0	1000.000	V	-8.8	29.6	74.0
19314.031250	42.7	1000.0	1000.000	V	-9.3	31.3	74.0
20808.750000	43.1	1000.0	1000.000	V	-7.3	30.9	74.0
21959.812500	42.5	1000.0	1000.000	V	-5.9	31.5	74.0
22991.218750	41.4	1000.0	1000.000	V	-5.4	32.6	74.0
24235.468750	44.0	1000.0	1000.000	V	-4.1	30.0	74.0

Figure 32: Radiated Spurious Emission, TM2, 30MHz to 1GHz, H

Table 25: Radiated Spurious Emission, TM2, 30MHz to 1GHz, H

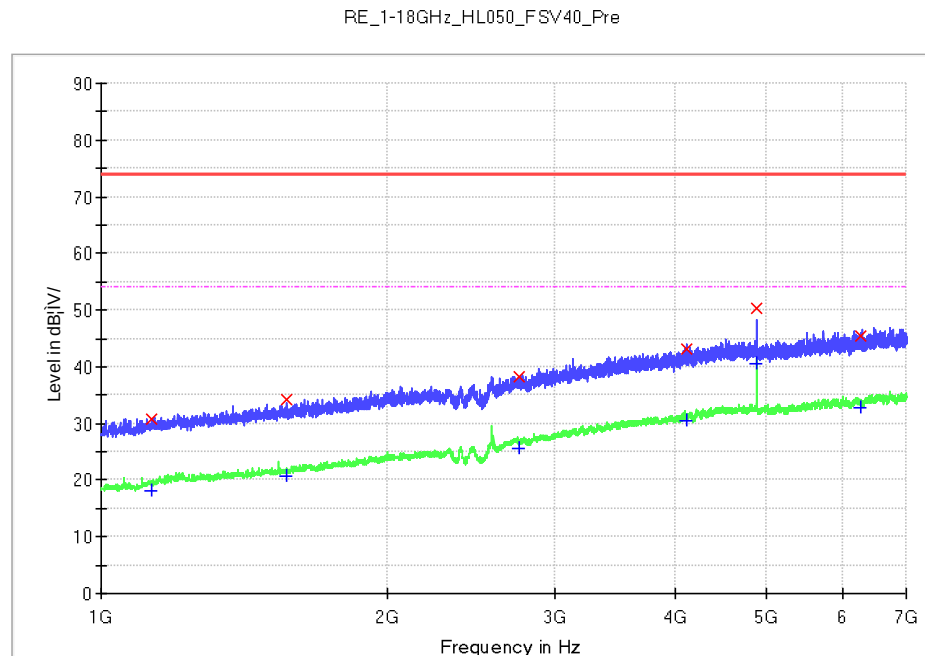
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.040000	20.7	1000.0	120.000	H	24.5	19.3	40.0
144.000000	32.2	1000.0	120.000	H	17.8	11.3	43.5
217.680000	31.1	1000.0	120.000	H	15.8	14.9	46.0
249.000000	31.5	1000.0	120.000	H	19.1	14.5	46.0
302.580000	21.3	1000.0	120.000	H	20.0	24.7	46.0
628.860000	23.5	1000.0	120.000	H	26.4	22.5	46.0

Figure 33: Radiated Spurious Emission, TM2, 30MHz to 1GHz, V

Table 26: Radiated Spurious Emission, TM2, 30MHz to 1GHz, V

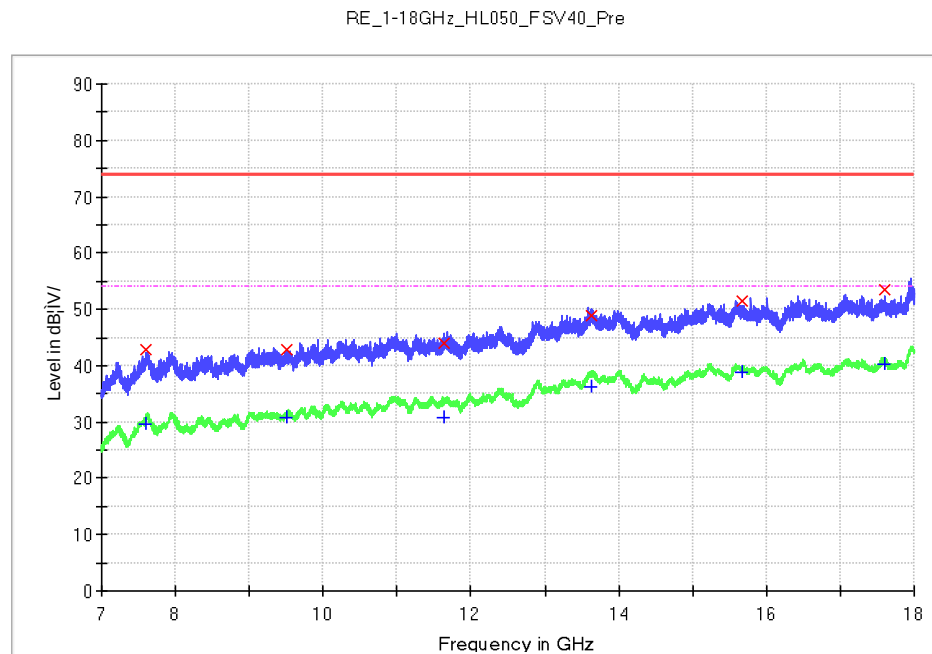
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
35.820000	25.3	1000.0	120.000	V	22.3	14.7	40.0
39.215000	27.2	1000.0	120.000	V	20.5	12.8	40.0
43.216250	27.6	1000.0	120.000	V	18.1	12.4	40.0
46.975000	30.5	1000.0	120.000	V	16.2	9.5	40.0
143.975000	28.9	1000.0	120.000	V	17.8	14.6	43.5
748.042500	23.9	1000.0	120.000	V	27.1	22.1	46.0

Figure 34: Radiated Spurious Emission, TM2, 1GHz to 7GHz, H

Table 27: Radiated Spurious Emission, TM2, 1GHz to 7GHz, H

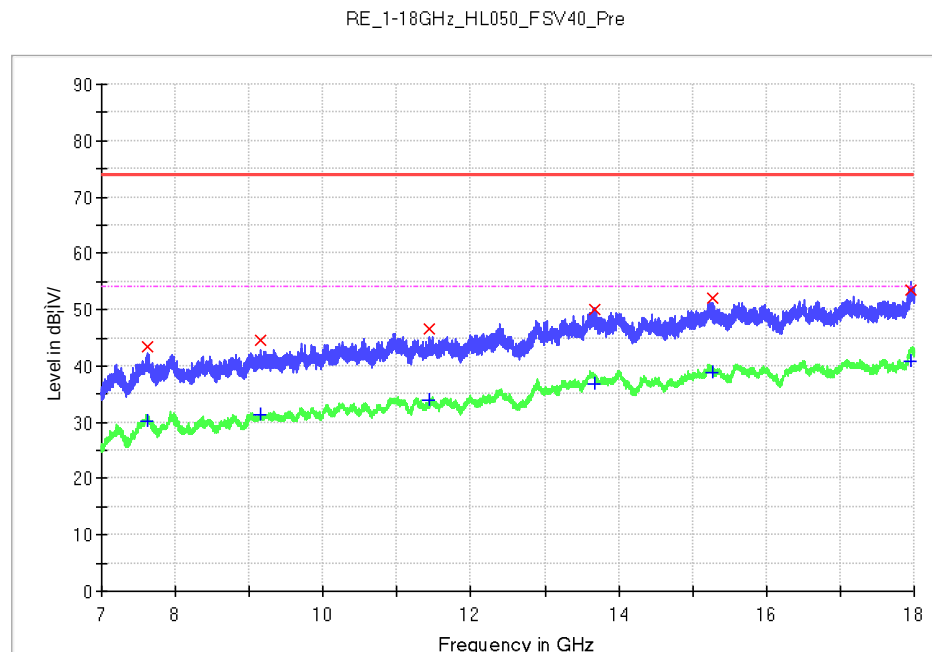
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1199.500000	32.2	1000.0	1000.000	H	-21.2	41.8	74.0
1726.500000	33.7	1000.0	1000.000	H	-17.7	40.3	74.0
2845.000000	39.2	1000.0	1000.000	H	-12.5	34.8	74.0
3719.000000	41.8	1000.0	1000.000	H	-8.8	32.2	74.0
4880.000000	49.1	1000.0	1000.000	H	-6.5	24.9	74.0
6205.000000	45.8	1000.0	1000.000	H	-5.4	28.2	74.0

Figure 35: Radiated Spurious Emission, TM2, 1GHz to 7GHz, V

Table 28: Radiated Spurious Emission, TM2, 1GHz to 7GHz, V

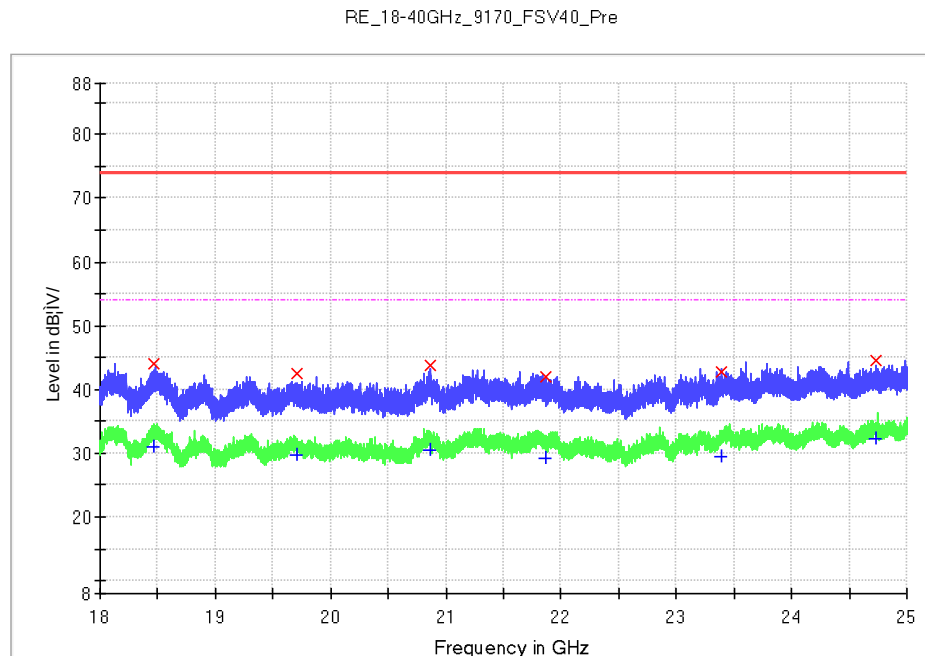
Frequency (MHz)	MaxPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dB μ V/m)
1128.500000	30.6	1000.0	1000.000	V	-21.7	43.4	74.0
1563.500000	34.1	1000.0	1000.000	V	-18.5	39.9	74.0
2749.500000	38.3	1000.0	1000.000	V	-12.9	35.7	74.0
4111.000000	43.0	1000.0	1000.000	V	-7.8	31.0	74.0
4880.000000	50.2	1000.0	1000.000	V	-6.5	23.8	74.0
6265.000000	45.3	1000.0	1000.000	V	-5.2	28.7	74.0

Figure 36: Radiated Spurious Emission, TM2, 7GHz to 18GHz, H

Table 29: Radiated Spurious Emission, TM2, 7GHz to 18GHz, H

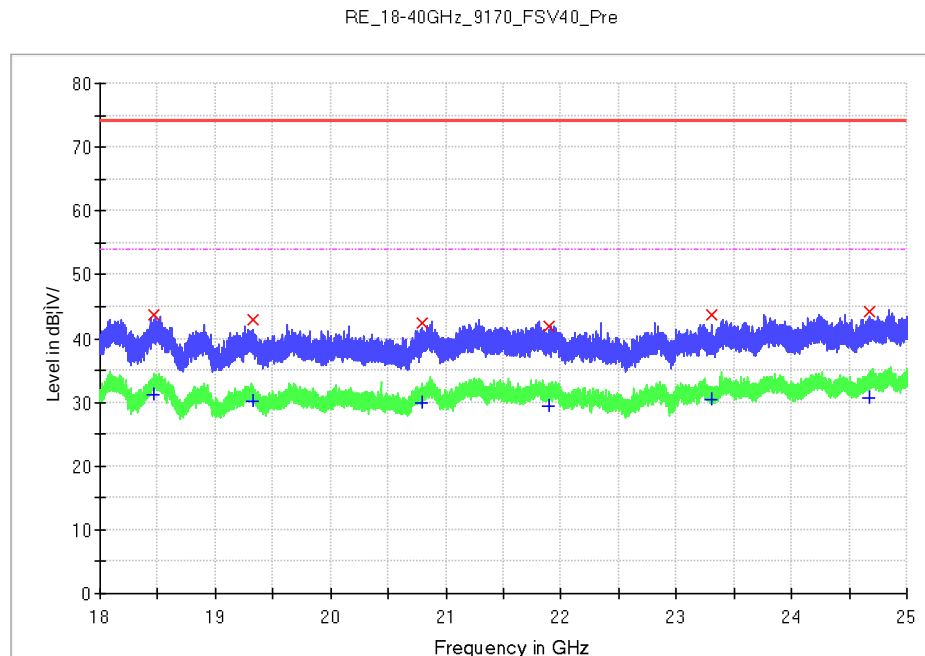
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
7603.166667	42.9	1000.0	1000.000	H	-3.1	31.1	74.0
9501.583333	42.9	1000.0	1000.000	H	-0.7	31.1	74.0
11634.666667	43.9	1000.0	1000.000	H	1.3	30.1	74.0
13629.333333	49.0	1000.0	1000.000	H	3.7	25.0	74.0
15680.833333	51.6	1000.0	1000.000	H	6.4	22.4	74.0
17591.166667	53.6	1000.0	1000.000	H	9.1	20.4	74.0

Figure 37: Radiated Spurious Emission, TM2, 7GHz to 18GHz, V

Table 30: Radiated Spurious Emission, TM2, 7GHz to 18GHz, V

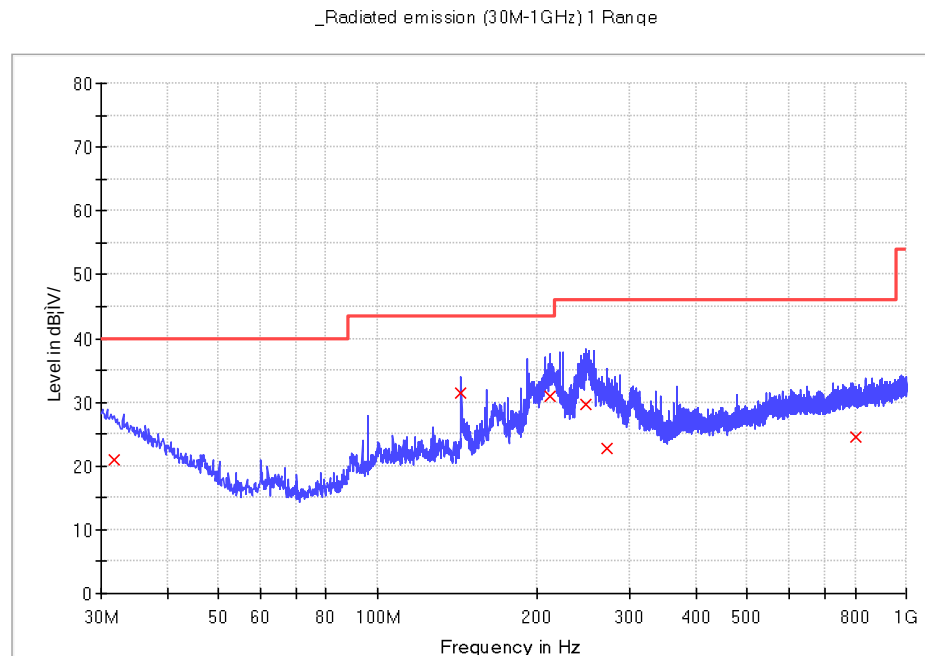
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
7623.333333	43.3	1000.0	1000.000	V	-3.1	30.7	74.0
9155.083333	44.5	1000.0	1000.000	V	-1.0	29.5	74.0
11432.083333	46.7	1000.0	1000.000	V	1.0	27.3	74.0
13673.333333	49.9	1000.0	1000.000	V	3.5	24.1	74.0
15274.750000	52.0	1000.0	1000.000	V	6.0	22.0	74.0
17945.916667	53.6	1000.0	1000.000	V	11.5	20.4	74.0

Figure 38: Radiated Spurious Emission, TM2, 18GHz to 25GHz, H

Table 31: Radiated Spurious Emission, TM2, 18GHz to 25GHz, H

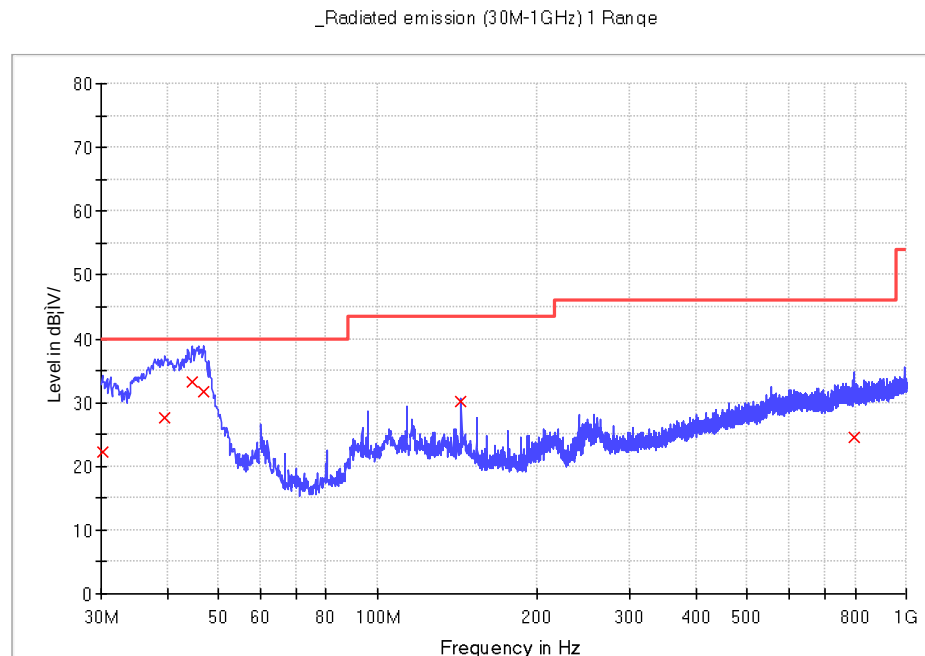
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18462.000000	44.1	1000.0	1000.000	H	-9.2	29.9	74.0
19708.000000	42.6	1000.0	1000.000	H	-8.6	31.4	74.0
20866.500000	43.8	1000.0	1000.000	H	-7.2	30.2	74.0
21867.500000	41.9	1000.0	1000.000	H	-5.9	32.1	74.0
23395.468750	42.7	1000.0	1000.000	H	-4.5	31.3	74.0
24737.937500	44.6	1000.0	1000.000	H	-3.5	29.4	74.0

Figure 39: Radiated Spurious Emission, TM2, 18GHz to 25GHz, V

Table 32: Radiated Spurious Emission, TM2, 18GHz to 25GHz, V

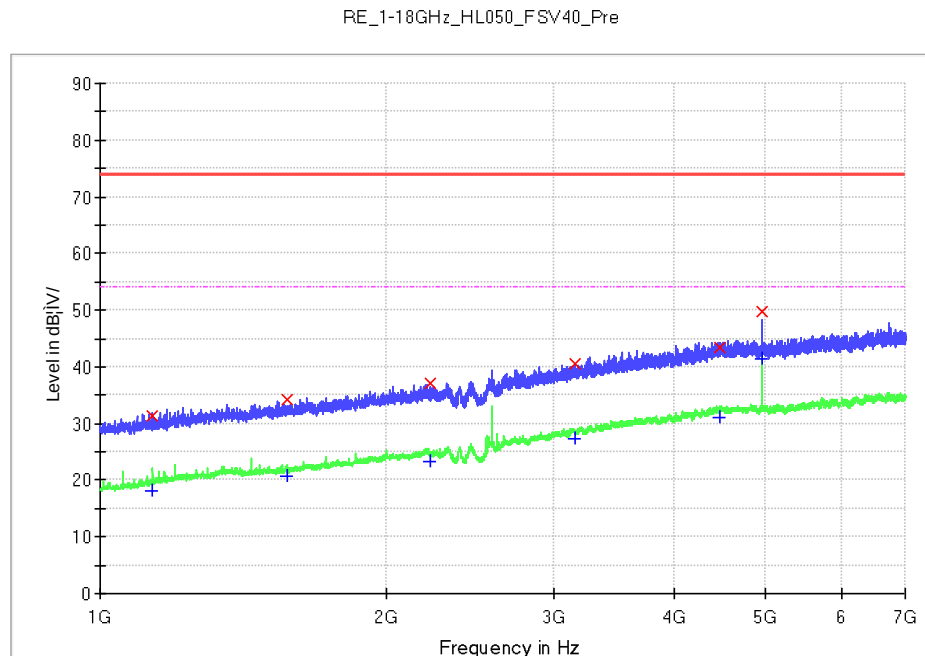
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18471.843750	43.6	1000.0	1000.000	V	-9.2	30.4	74.0
19324.750000	43.0	1000.0	1000.000	V	-9.3	31.0	74.0
20789.281250	42.5	1000.0	1000.000	V	-7.4	31.5	74.0
21889.593750	41.9	1000.0	1000.000	V	-5.9	32.1	74.0
23302.281250	43.6	1000.0	1000.000	V	-4.7	30.4	74.0
24670.562500	44.2	1000.0	1000.000	V	-3.6	29.8	74.0

Figure 40: Radiated Spurious Emission, TM3, 30MHz to 1GHz, H

Table 33: Radiated Spurious Emission, TM3, 30MHz to 1GHz, H

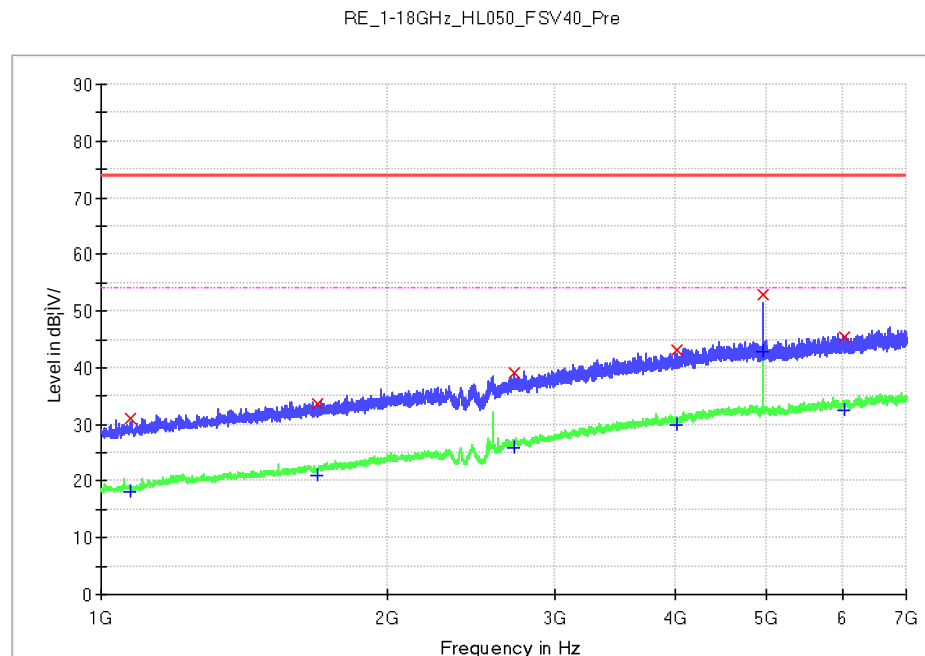
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.697500	20.9	1000.0	120.000	H	24.6	19.1	40.0
143.975000	31.5	1000.0	120.000	H	17.8	12.0	43.5
211.996250	31.0	1000.0	120.000	H	15.9	12.5	43.5
247.401250	29.7	1000.0	120.000	H	18.9	16.3	46.0
271.893750	22.7	1000.0	120.000	H	19.6	23.3	46.0
802.605000	24.4	1000.0	120.000	H	27.4	21.6	46.0

Figure 41: Radiated Spurious Emission, TM3, 30MHz to 1GHz, V

Table 34: Radiated Spurious Emission, TM3, 30MHz to 1GHz, V

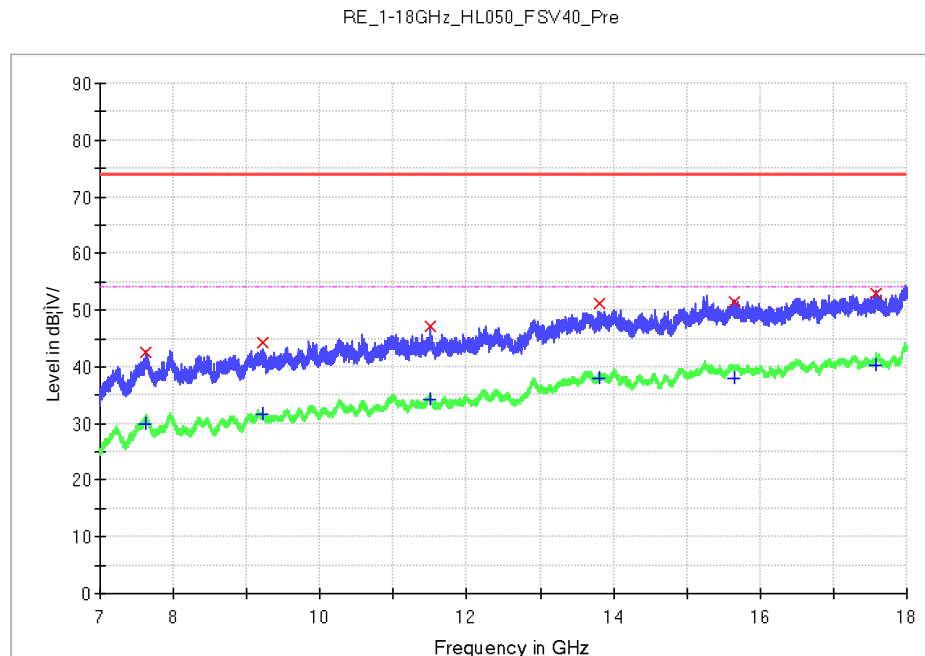
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.120000	22.4	1000.0	120.000	V	25.3	17.7	40.0
39.600000	27.7	1000.0	120.000	V	20.2	12.3	40.0
44.520000	33.3	1000.0	120.000	V	17.3	6.7	40.0
46.860000	31.8	1000.0	120.000	V	16.2	8.2	40.0
144.000000	30.0	1000.0	120.000	V	17.8	13.5	43.5
796.800000	24.5	1000.0	120.000	V	27.5	21.5	46.0

Figure 42: Radiated Spurious Emission, TM3, 1GHz to 7GHz, H

Table 35: Radiated Spurious Emission, TM3, 1GHz to 7GHz, H

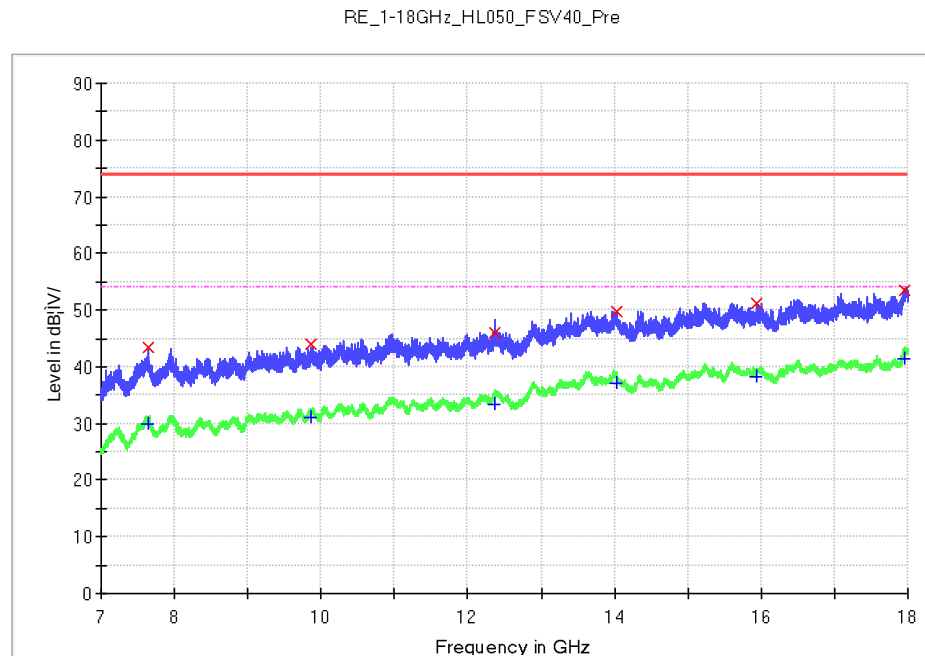
Frequency (MHz)	MaxPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dB μ V/m)
1132.000000	31.4	1000.0	1000.000	H	-21.6	42.6	74.0
1573.000000	34.1	1000.0	1000.000	H	-18.5	39.9	74.0
2217.000000	37.1	1000.0	1000.000	H	-15.3	36.9	74.0
3154.000000	40.5	1000.0	1000.000	H	-11.0	33.5	74.0
4468.000000	43.6	1000.0	1000.000	H	-6.4	30.5	74.0
4960.500000	49.8	1000.0	1000.000	H	-6.6	24.2	74.0

Figure 43: Radiated Spurious Emission, TM3, 1GHz to 7GHz, V

Table 36: Radiated Spurious Emission, TM3, 1GHz to 7GHz, V

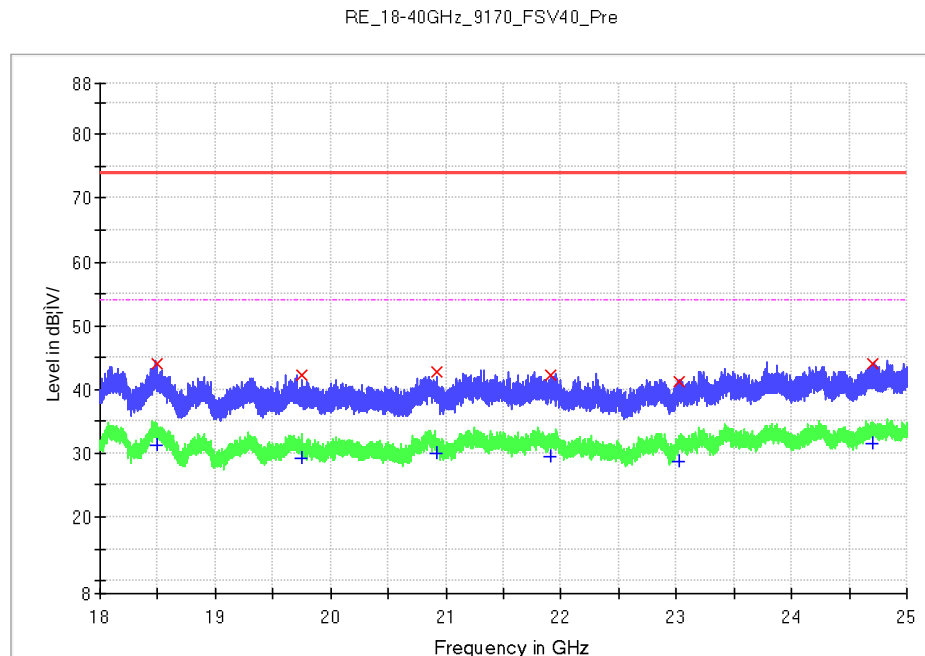
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1072.000000	31.1	1000.0	1000.000	V	-22.0	42.9	74.0
1686.000000	33.6	1000.0	1000.000	V	-17.9	40.4	74.0
2718.000000	39.1	1000.0	1000.000	V	-13.0	34.9	74.0
4019.500000	43.1	1000.0	1000.000	V	-8.3	30.9	74.0
4960.500000	53.1	1000.0	1000.000	V	-6.6	21.0	74.0
6017.000000	45.4	1000.0	1000.000	V	-5.9	28.6	74.0

Figure 44: Radiated Spurious Emission, TM3, 7GHz to 18GHz, H

Table 37: Radiated Spurious Emission, TM3, 7GHz to 18GHz, H

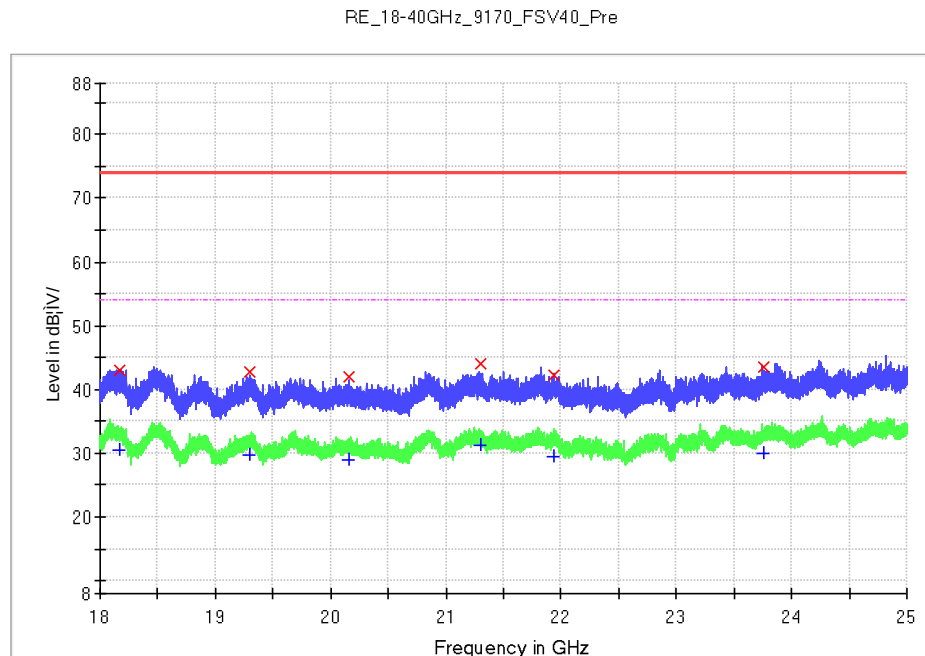
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
7624.250000	42.6	1000.0	1000.000	H	-3.1	31.4	74.0
9212.833333	44.2	1000.0	1000.000	H	-0.7	29.8	74.0
11495.333333	47.1	1000.0	1000.000	H	1.5	26.9	74.0
13808.083333	51.2	1000.0	1000.000	H	3.7	22.8	74.0
15658.833333	51.5	1000.0	1000.000	H	6.5	22.5	74.0
17585.666667	53.0	1000.0	1000.000	H	9.1	21.0	74.0

Figure 45: Radiated Spurious Emission, TM3, 7GHz to 18GHz, V

Table 38: Radiated Spurious Emission, TM3, 7GHz to 18GHz, V

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
7638.000000	43.4	1000.0	1000.000	V	-3.1	30.6	74.0
9861.833333	43.9	1000.0	1000.000	V	-0.2	30.1	74.0
12366.166667	45.9	1000.0	1000.000	V	1.4	28.1	74.0
14028.083333	49.8	1000.0	1000.000	V	4.5	24.2	74.0
15933.833333	51.1	1000.0	1000.000	V	6.7	22.9	74.0
17960.583333	53.5	1000.0	1000.000	V	11.7	20.5	74.0

Figure 46: Radiated Spurious Emission, TM3, 18GHz to 25GHz, H

Table 39: Radiated Spurious Emission, TM3, 18GHz to 25GHz, H

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18490.656250	44.1	1000.0	1000.000	H	-9.2	29.9	74.0
19751.312500	42.3	1000.0	1000.000	H	-8.4	31.7	74.0
20920.750000	42.7	1000.0	1000.000	H	-7.1	31.3	74.0
21913.218750	42.3	1000.0	1000.000	H	-5.9	31.7	74.0
23017.687500	41.3	1000.0	1000.000	H	-5.4	32.7	74.0
24697.250000	44.0	1000.0	1000.000	H	-3.6	30.0	74.0

Figure 47: Radiated Spurious Emission, TM3, 18GHz to 25GHz, V

Table 40: Radiated Spurious Emission, TM3, 18GHz to 25GHz, V

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18169.093750	42.9	1000.0	1000.000	V	-8.9	31.1	74.0
19302.437500	42.7	1000.0	1000.000	V	-9.3	31.3	74.0
20163.000000	41.9	1000.0	1000.000	V	-7.8	32.1	74.0
21305.312500	44.1	1000.0	1000.000	V	-6.3	29.9	74.0
21938.156250	42.2	1000.0	1000.000	V	-5.9	31.8	74.0
23762.750000	43.5	1000.0	1000.000	V	-4.2	30.5	74.0

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