

Prüfbericht-Nr.: Test report no.:	CN254RKU 001	Auftrags-Nr.: Order no.:	180239410	Seite 1 von 78 Page 1 of 78
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022.07.20	
Auftraggeber: Client:	HYgreentool GmbH Cecilienallee 57, D-40474 Düsseldorf, Germany			
Prüfgegenstand: Test item:	Robotic Lawn Mower			
Bezeichnung / Typ-Nr.: Identification / Type no.:	GOMOW1500			
Auftrags-Inhalt: Order content:	TÜV Rheinland – FCC Service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15.203 FCC 47 CFR Part 15.207 FCC 47 CFR Part 15.209 FCC 47 CFR Part 15.247			
Wareneingangsdatum: Date of sample receipt:	2024.09.18	Refer to Photo Documentation		
Prüfmuster-Nr.: Test sample no.:	180239410			
Prüfzeitraum: Testing period:	2024.09.18-2025.07.11			
Ort der Prüfung: Place of testing:	Refer to section 1.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2025.09.28	Ausstelldatum: Issue date: 2025.09.28			
Stellung / Position:	Season Yang/PE	Stellung / Position:	Keda Zhou/Authorizer	
Sonstiges / Other:	FCC ID: 2BODR-GOWOM1500 Contains FCC ID: 2BM2K-M4, for Lora communication.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* 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>				

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Anmerkungen Remarks

- | | |
|---|--|
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Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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Test Summary

4.1.1 ANTENNA REQUIREMENT

Result:

Pass

4.1.2 6dB BANDWIDTH MEASUREMENT

Result:

Pass

4.1.3 MAXIMUM CONDUCTED OUTPUT POWER

Result:

Pass

4.1.4 POWER SPECTRAL DENSITY

Result:

Pass

4.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

Result:

Pass

4.1.6 RADIATED EMISSION

Result:

Pass

4.1.7 CONDUCTED EMISSION ON AC MAINS

Result:

Pass

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1. Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland /CCIC (Ningbo) Co., Ltd.

1st Floor, Building 11, Scholar Innovation Park, No.1188 Zhongguan Road, Zhenhai District, Ningbo 315200 P.R. China

FCC Designation Number: CN1237

FCC Test Firm Registration Number: 647754

The used test equipment is in accordance with CISPR 16-1 series standards.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Serial No.	Last cal. date	Cal. due date
EMI test receiver	ESR3	102331	2024.10.23	2025.10.22
LISN	ENV216	102250	2024.10.23	2025.10.22
EMI test receiver	ESR7	101929	2024.10.23	2025.10.22
Spectrum analyzer	FSV40	101412	2024.10.23	2025.10.22
Bilog Antenna	CBL6112D	49033	2024.03.17	2027.03.16
Horn antenna	HF907	102653	2023.07.20	2026.07.19
Broad-Band Horn Antenna	BBHA 9170	899	2024.01.05	2027.01.04
Pre-amplifier	SCU-18F	180051	2024.10.23	2025.10.22
Pre-amplifier	LNPA 1840G-50	SK2021040801	2024.10.23	2025.10.22
RF control Unit	JS0806-2	22G8060598	2024.10.23	2025.10.22
Mains control unit	JS0806-4ADC	21L8060536	2024.10.23	2025.10.22

1.3 Uncertainty of Measurement

Table 2: Measurement Uncertainty

Test Item	Expanded Measurement Uncertainty (k=2)
Conducted Emission (9-150kHz)	3.70dB
Conducted Emission (150k-30MHz)	3.30dB
Occupied Channel Bandwidth	±5 %
Radiated Emission (30-1000MHz)	4.39dB
Radiated Emission (1-18GHz)	4.67dB

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2. General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is a Robotic Lawn Mower operated at 2400-2483.5MHz.

For more detail information, refer to the user's manual.

2.2 Ratings and System Details

Table 3: General Description of EUT

General Description of EUT	
Charging Voltage:	DC 20.8V
Internal battery Voltage:	DC 20V
Protection Class:	Class III
Technical Specification of Bluetooth (BLE)	
Frequency Range:	2402 – 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Channel:	0-39
Antenna Type:	PIFA Antenna
Antenna Gain:	2dBi
Technical Specification of Wi-Fi(2.4GHz)	
Frequency Range:	2412 – 2462MHz
Modulation Type:	802.11b: DSSS 802.11g/n-HT20/n-HT40: OFDM
Channel:	802.11b/g/n-HT20: CH01-11 802.11 n-HT40: CH03-09
Data Rate:	802.11b: 11 Mbps max. 802.11g: 54 Mbps max. 802.11n-HT20/n-HT40: MCS7 max.
Antenna Type:	Monopole Antenna
Antenna Gain:	4dBi
Technical Specification of RF 2.4GHz	
Frequency Range:	2402 – 2481MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Channel Number:	80
Antenna Type:	PCB Antenna
Antenna Gain:	1dBi
Technical Specification of Lora	
Frequency Range:	902.5-927.49MHz
Modulation Type:	CSS
Channel:	50

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Antenna Type:	PIFA Antenna
Antenna Gain:	1dBi

Table 4: Channel List

Channel List for BLE							
Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480
Channel List for Wi-Fi 802.11b/g/n-HT20							
Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452		
Channel List for Wi-Fi 802.11n-HT40							
Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447		
Channel List for RF 2.4GHz							
Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
2.	2402	22.	2422	42.	2442	62.	2462
3.	2403	23.	2423	43.	2443	63.	2463
4.	2404	24.	2424	44.	2444	64.	2464
5.	2405	25.	2425	45.	2445	65.	2465
6.	2406	26.	2426	46.	2446	66.	2466
7.	2407	27.	2427	47.	2447	67.	2467
8.	2408	28.	2428	48.	2448	68.	2468
9.	2409	29.	2429	49.	2449	69.	2469
10.	2410	30.	2430	50.	2450	70.	2470
11.	2411	31.	2431	51.	2451	71.	2471
12.	2412	32.	2432	52.	2452	72.	2472
13.	2413	33.	2433	53.	2453	73.	2473
14.	2414	34.	2434	54.	2454	74.	2474
15.	2415	35.	2435	55.	2455	75.	2475
16.	2416	36.	2436	56.	2456	76.	2476

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17.	2417	37.	2437	57.	2457	77.	2477
18.	2418	38.	2438	58.	2458	78.	2478
19.	2419	39.	2439	59.	2459	79.	2479
20.	2420	40.	2440	60.	2460	80.	2480
21.	2421	41.	2441	61.	2461	81.	2481

2.3 Independent Operation Modes

There are some modes:

Mode A: Transmitting continuously of BLE_1MHz

1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode B: Transmitting continuously of Wi-Fi_11b

1. Channel 2412MHz
2. Channel 2437MHz
3. Channel 2462MHz

Mode C: Transmitting continuously of Wi-Fi_11g

1. Channel 2412MHz
2. Channel 2437MHz
3. Channel 2462MHz

Mode D: Transmitting continuously of Wi-Fi_11n-HT20

1. Channel 2412MHz
2. Channel 2437MHz
3. Channel 2462MHz

Mode E: Transmitting continuously of Wi-Fi_11n-HT40

1. Channel 2422MHz
2. Channel 2437MHz
3. Channel 2452MHz

Mode F: Transmitting continuously of RF 2.4GHz

1. Channel 2402MHz
2. Channel 2441MHz
3. Channel 2481MHz

Mode G: Coexistence of WIFI+BLE+RF2.4+LORA

Refer to the user's manual for further information.

2.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram for further information.

2.5 Submitted Documents

Circuit diagram, label, user manual etc.

3. Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

3.2 Test Operation and Test Software

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer. The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

All testing were performed according to the procedures in ANSI C63.10: 2020.

Test Software EMC32 V10.30 was used in the radiated emission test.

More details refer to the related paragraph of this report.

3.3 Special Accessories and Auxiliary Equipment

Table 5: List of Auxiliary Equipment

Description	Manufacturer	Model No.
Notebook	Lenovo	T14
GOMOW Wireless Charging Station	HYgreentool GmbH	HRM-72200-CS

3.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Circuit Diagram. No additional measures were employed to achieve compliance.

3.5 Test set-up

Diagram of Measurement Configuration for Conducted Emission on AC Mains

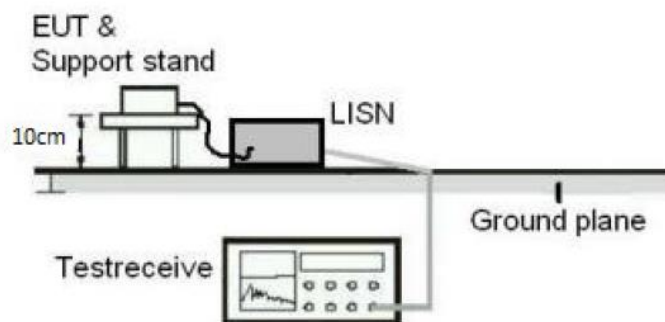
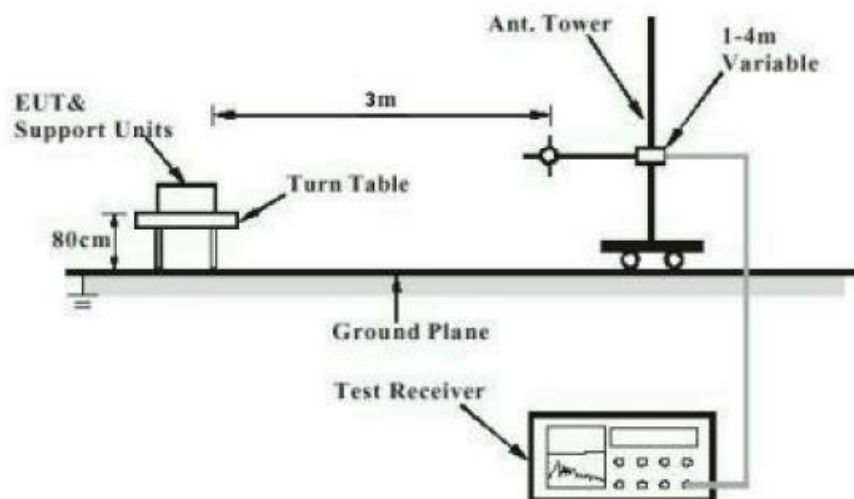


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)



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Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

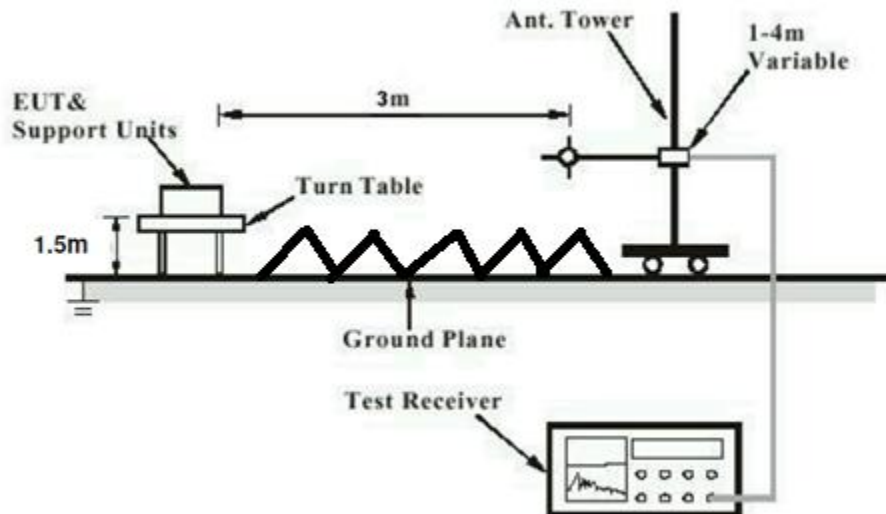
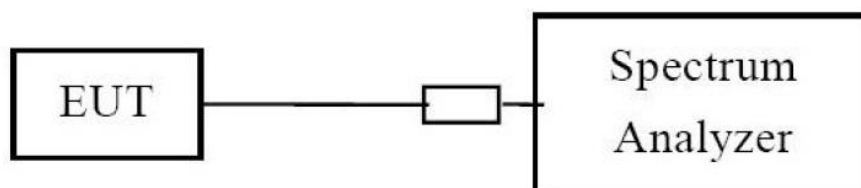


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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4. Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

Result:

Pass

Test Specification

Test standard

: FCC 47 CFR Part 15.203

Limit

: FCC: the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an integral antenna (Antenna Gain: 2dBi for BLE; 4dBi for WiFi; 1dBi for RF 2.4GHz, 1dBi for Lora), and no consideration of replacement. Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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4.1.2 6dB Bandwidth Measurement

Result:

Pass

Test Specification

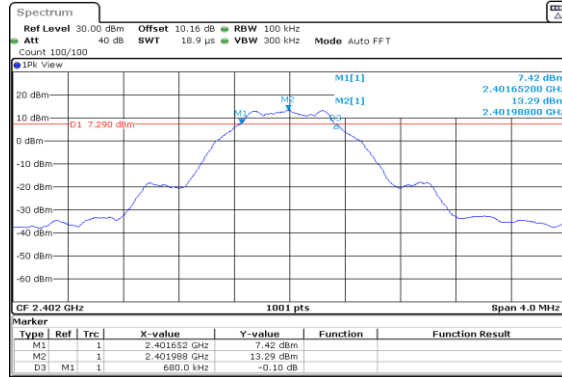
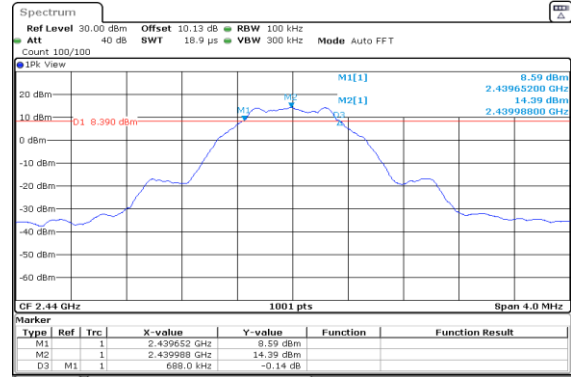
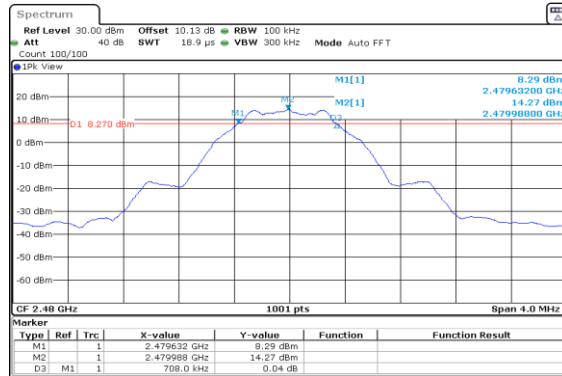
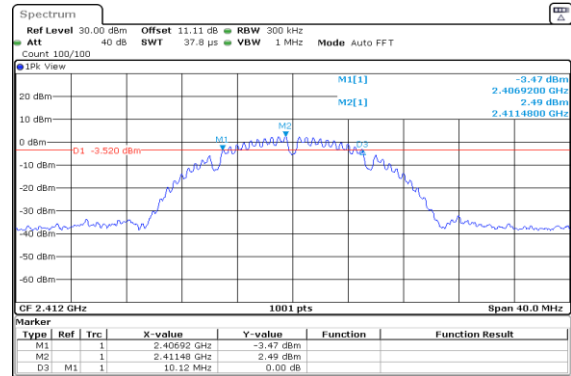
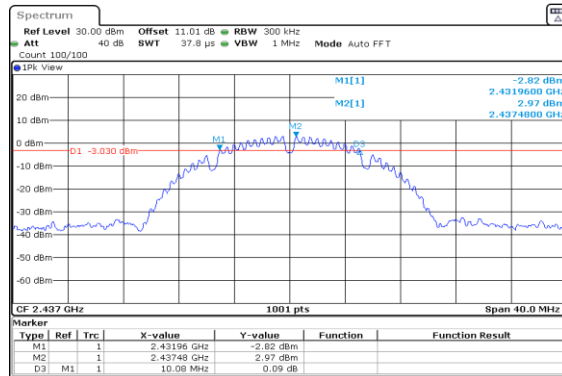
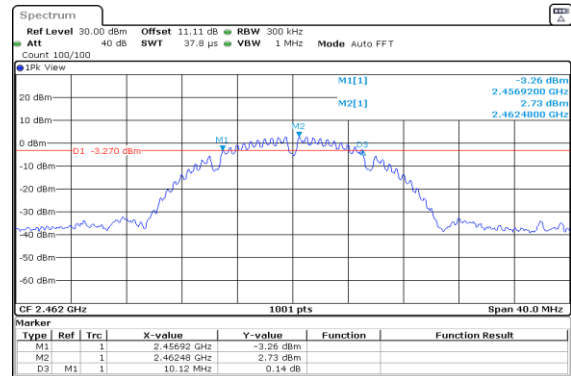
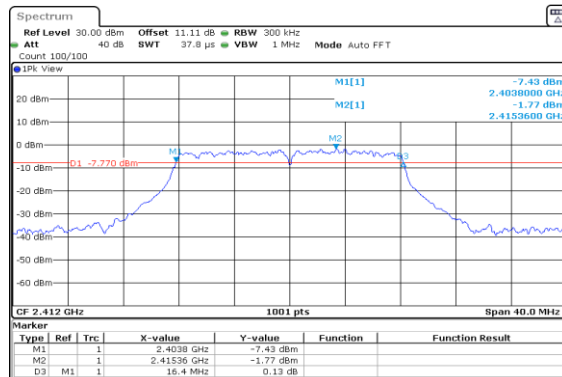
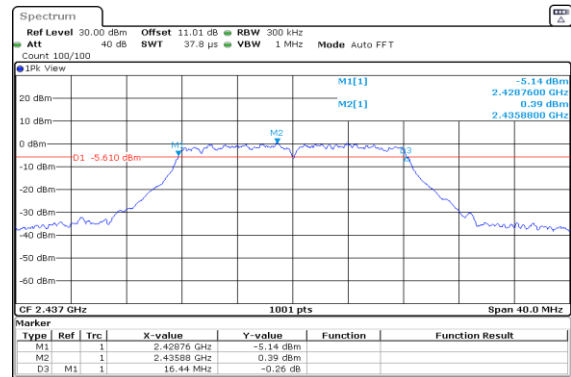
Test standard : FCC 47 CFR Part 15.247 (a)(2)
Basic standard : ANSI C63.10: 2020, Clause 11.8.1
Limits : At least 500kHz
Kind of test site : Shielded Room

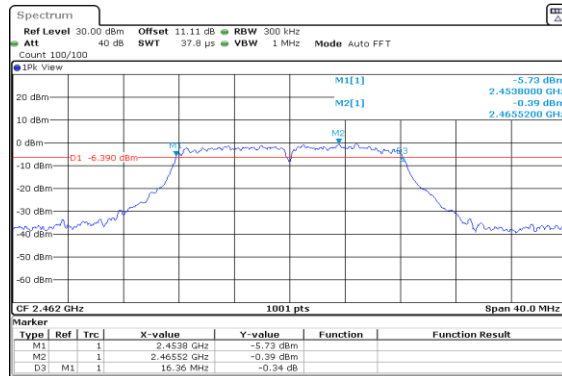
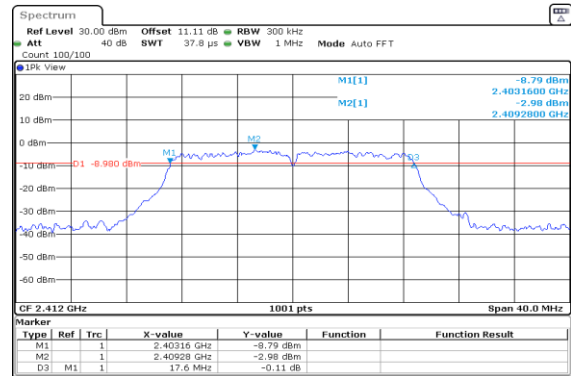
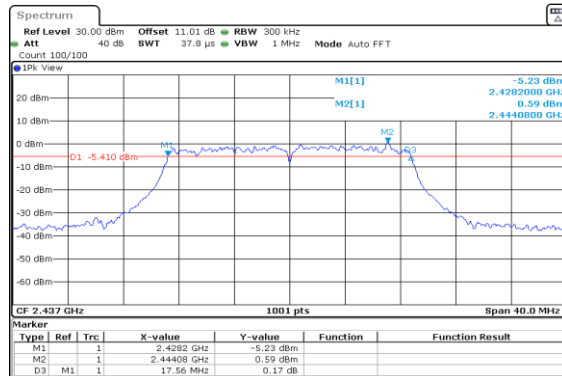
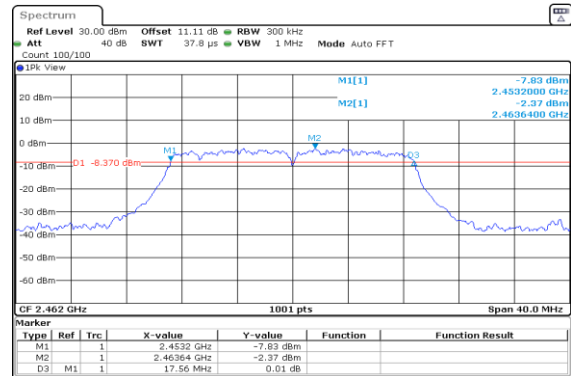
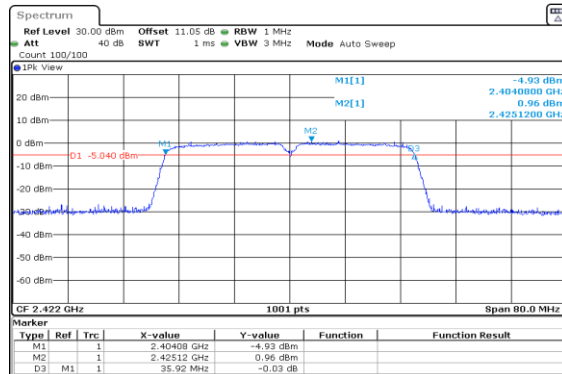
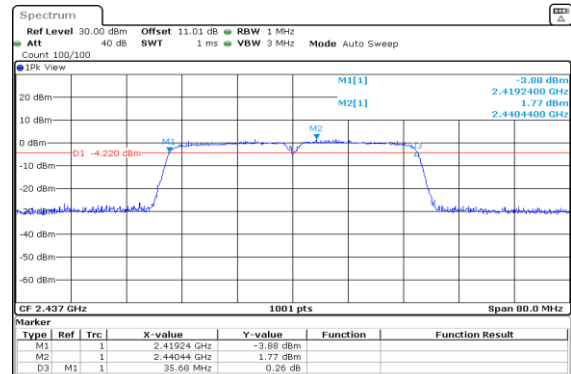
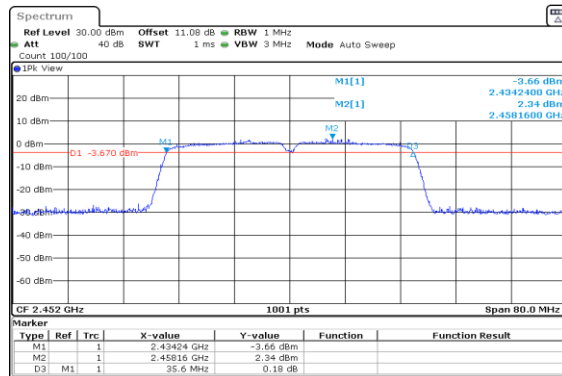
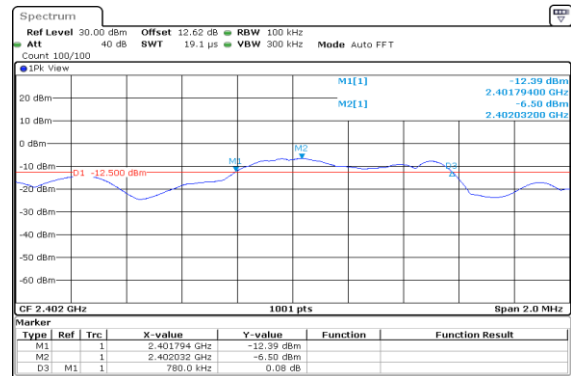
Test Setup

Date of testing : 2025.02.08
Input voltage : DC 20V
Operational mode : Refer to below table
Temperature : 20°C
Relative humidity : 55%
Atmospheric pressure : 101.2 kPa

Table 6: Test result of 6dB Bandwidth

Mode	Bandwidth (MHz)	Limit (kHz)	Verdict
A.1	0.68	≥500	Pass
A.2	0.69	≥500	Pass
A.3	0.71	≥500	Pass
B.1	10.12	≥500	Pass
B.2	10.08	≥500	Pass
B.3	10.12	≥500	Pass
C.1	16.40	≥500	Pass
C.2	16.44	≥500	Pass
C.3	16.36	≥500	Pass
D.1	17.60	≥500	Pass
D.2	17.56	≥500	Pass
D.3	17.56	≥500	Pass
E.1	35.92	≥500	Pass
E.2	35.68	≥500	Pass
E.3	35.60	≥500	Pass
F.1	0.78	≥500	Pass
F.2	0.68	≥500	Pass
F.3	0.56	≥500	Pass

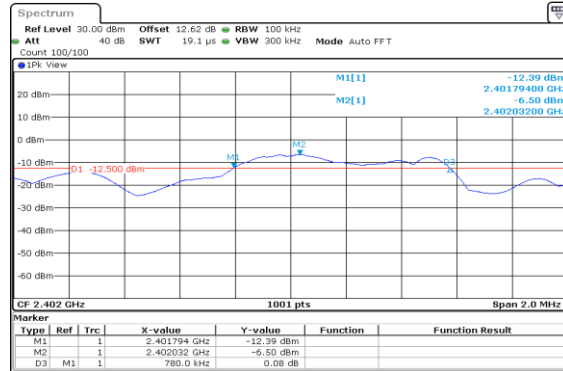
Figure 1: 6dB Bandwidth Measurement
A.1

A.2

A.3

B.1

B.2

B.3

C.1

C.2


C.3

D.1

D.2

D.3

E.1

E.2

E.3

F.1


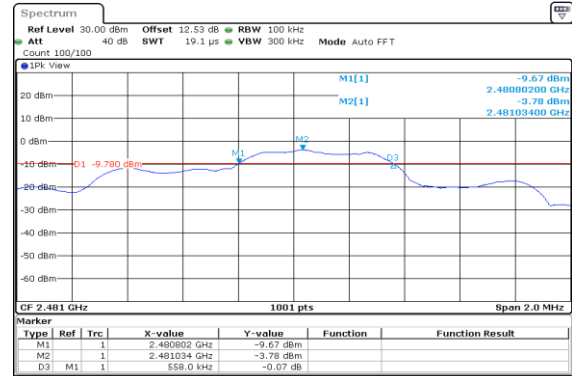
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4.1.3 Maximum Conducted Output Power

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 15.247 (b)(3)

Basic standard : ANSI C63.10: 2020, Clause 11.9.1.1 for Mode A, F
ANSI C63.10: 2020, Clause 11.9.2.2.4 for Mode B,C,D,E

Limits : Not more than 1 Watt(30dBm)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025.02.08

Input voltage : DC 20V

Operational mode : Refer to below table

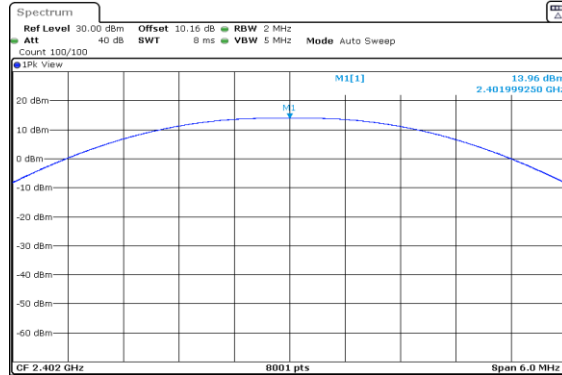
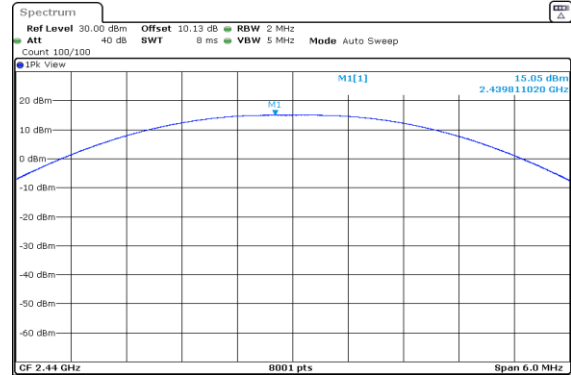
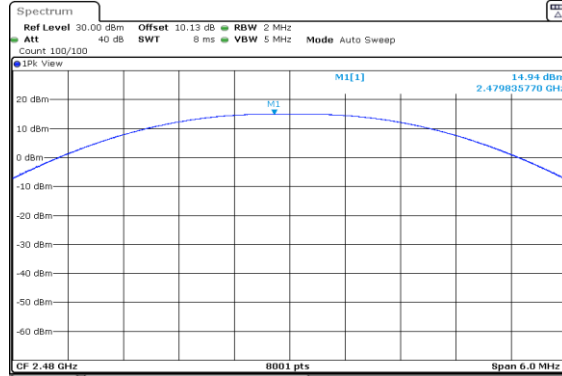
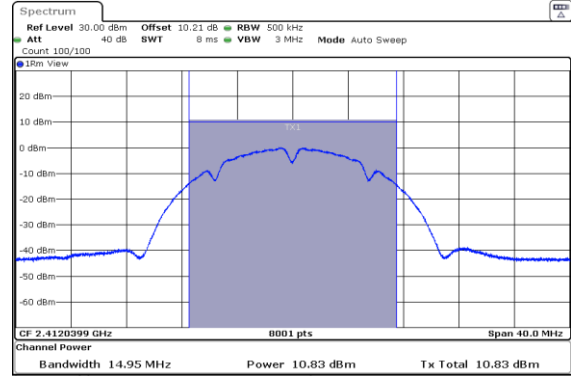
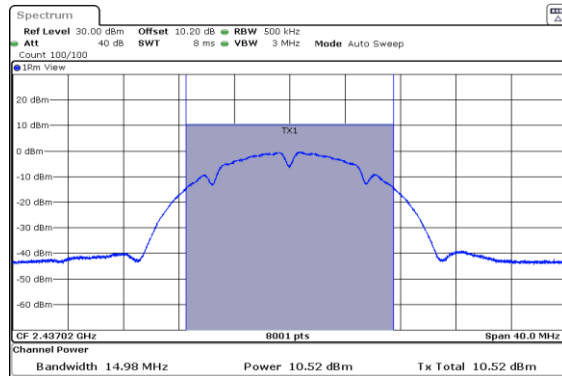
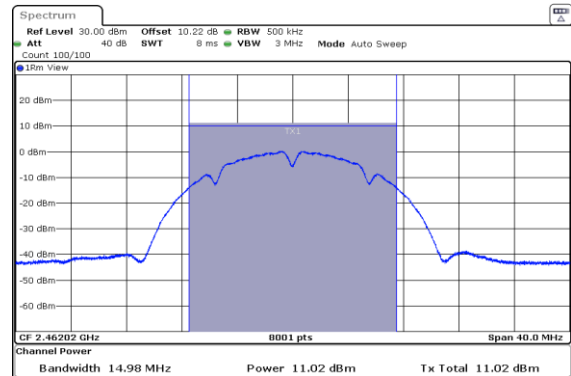
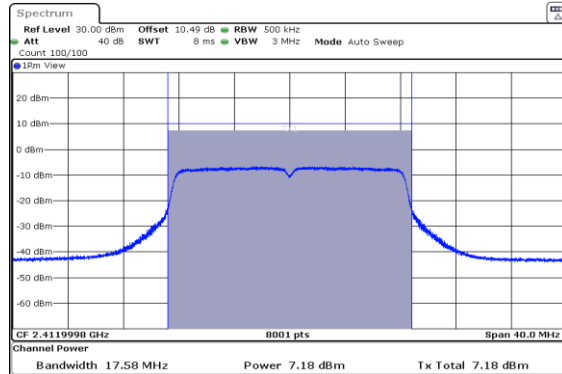
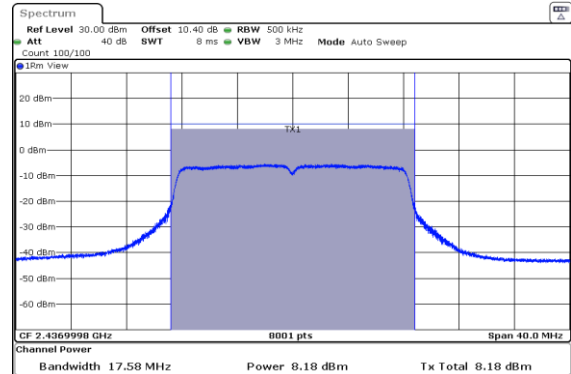
Temperature : 20°C

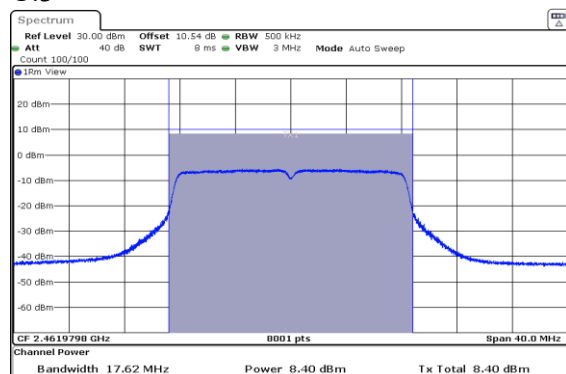
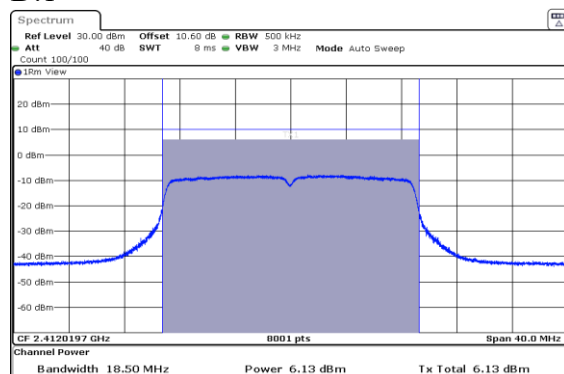
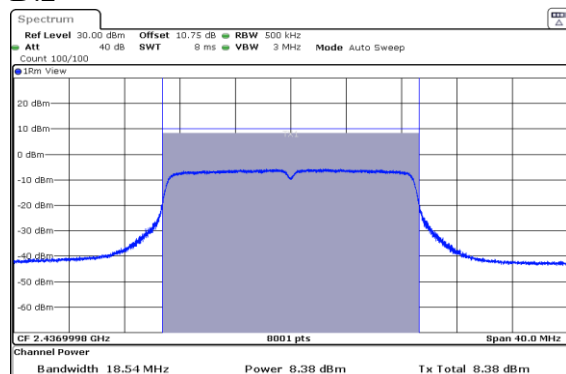
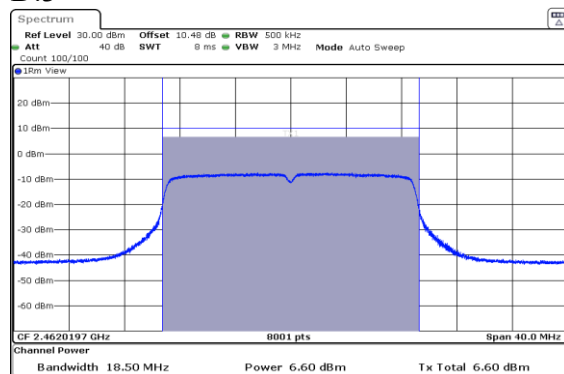
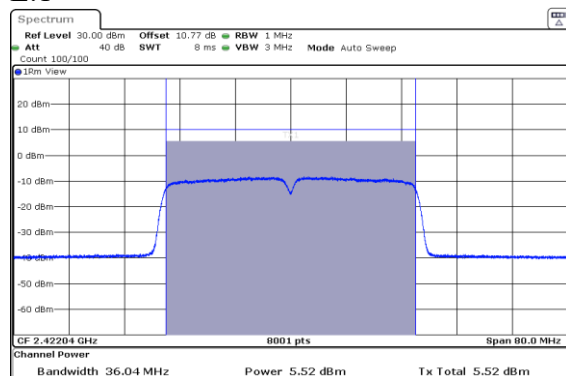
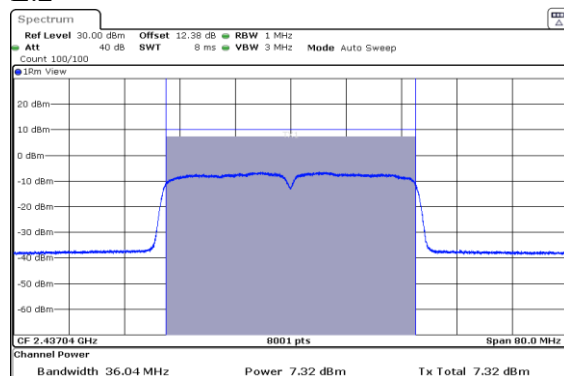
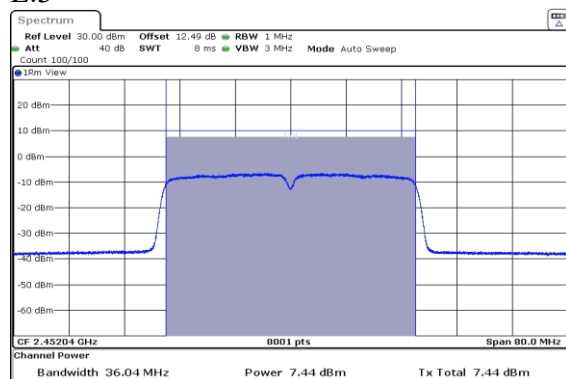
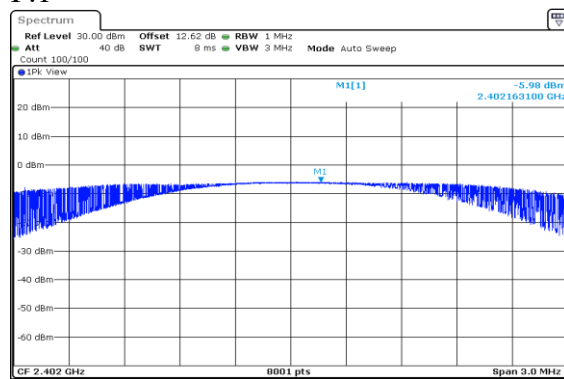
Relative humidity : 55%

Atmospheric pressure : 101.2 kPa

Table 7: Test result of Maximum Conducted Output Power

Mode	Output Power (dBm)	Limit (dBm)	Verdict
A.1	13.96	≤30	Pass
A.2	15.05	≤30	Pass
A.3	14.94	≤30	Pass
B.1	10.83	≤30	Pass
B.2	10.52	≤30	Pass
B.3	11.02	≤30	Pass
C.1	7.18	≤30	Pass
C.2	8.18	≤30	Pass
C.3	8.40	≤30	Pass
D.1	6.13	≤30	Pass
D.2	8.38	≤30	Pass
D.3	6.60	≤30	Pass
E.1	5.52	≤30	Pass
E.2	7.32	≤30	Pass
E.3	7.44	≤30	Pass
F.1	-5.98	≤30	Pass
F.2	-4.36	≤30	Pass
F.3	-3.35	≤30	Pass

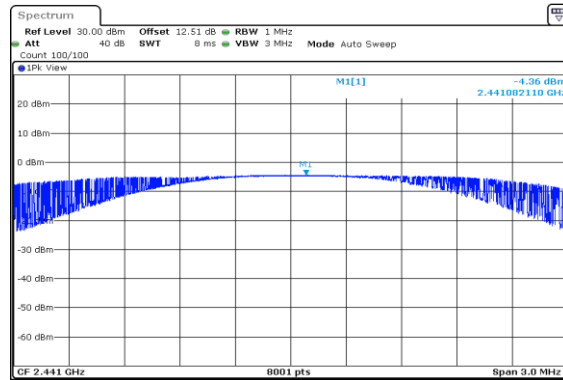
Figure 2: Maximum Conducted Output Power
A.1

A.2

A.3

B.1

B.2

B.3

C.1

C.2


C.3

D.1

D.2

D.3

E.1

E.2

E.3

F.1


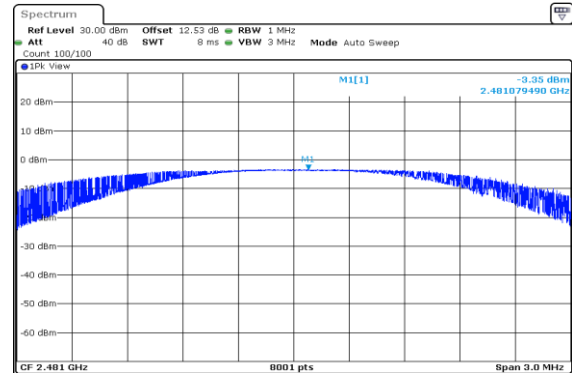
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4.1.4 Power Spectral Density

Result:

Pass

Test Specification

Test standard : FCC 47 CFR Part 15.247 (e)

Basic standard : ANSI C63.10: 2020, Clause 11.10.2 for Mode A, F
ANSI C63.10: 2020, Clause 11.10.7 for Mode B,C,D,E

Limits : Not more than 8 dBm in any 3 kHz band

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025.02.08

Input voltage : DC 20V

Operational mode : Refer to below table

Temperature : 20°C

Relative humidity : 55%

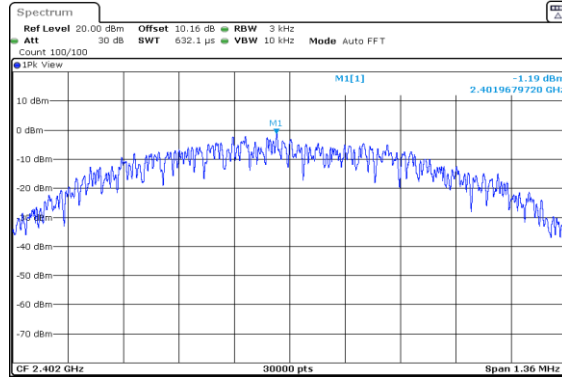
Atmospheric pressure : 101.2 kPa

Table 8: Test result of Power Spectral Density

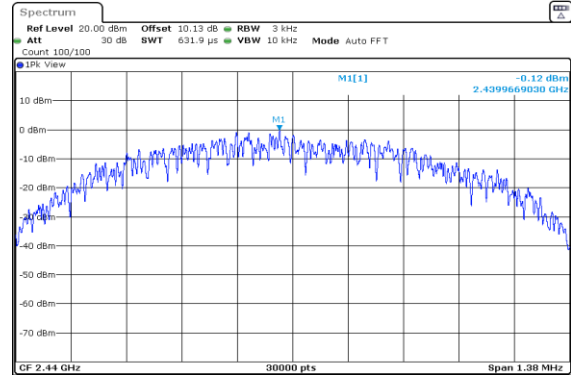
Mode	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
A.1	-1.19	≤8	Pass
A.2	-0.12	≤8	Pass
A.3	-0.17	≤8	Pass
B.1	-21.05	≤8	Pass
B.2	-20.97	≤8	Pass
B.3	-20.70	≤8	Pass
C.1	-26.36	≤8	Pass
C.2	-25.01	≤8	Pass
C.3	-25.42	≤8	Pass
D.1	-28.26	≤8	Pass
D.2	-25.13	≤8	Pass
D.3	-27.20	≤8	Pass
E.1	-29.44	≤8	Pass
E.2	-27.59	≤8	Pass
E.3	-27.66	≤8	Pass
F.1	-18.51	≤8	Pass
F.2	-16.82	≤8	Pass
F.3	-16.42	≤8	Pass

Figure 3: Power Spectral Density

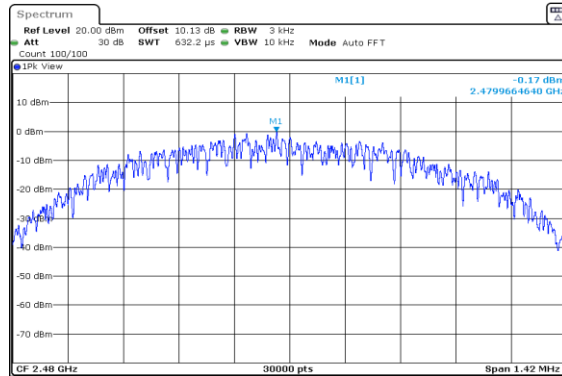
A.1



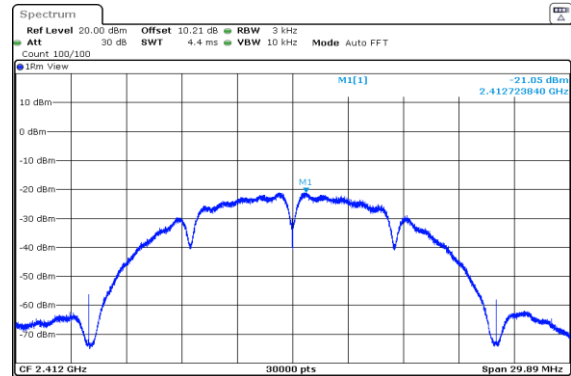
A.2



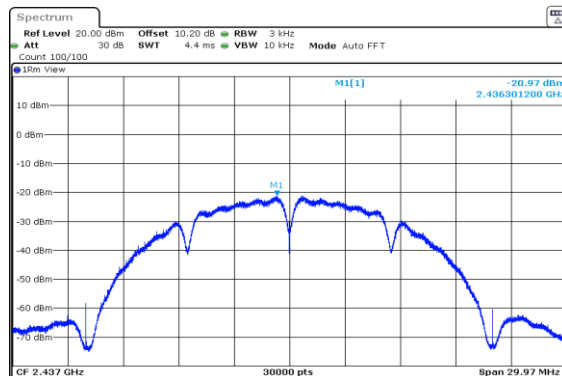
A.3



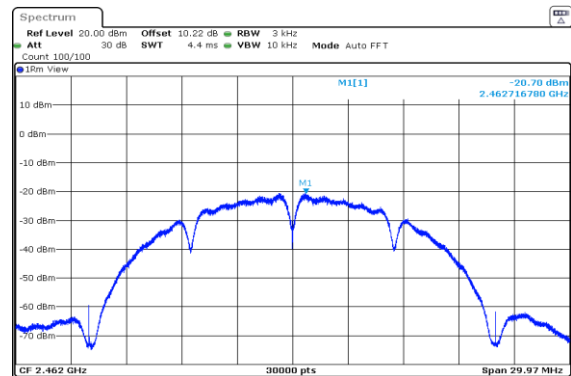
B.1



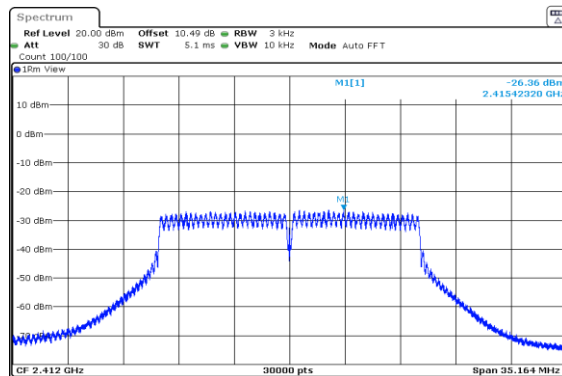
B.2



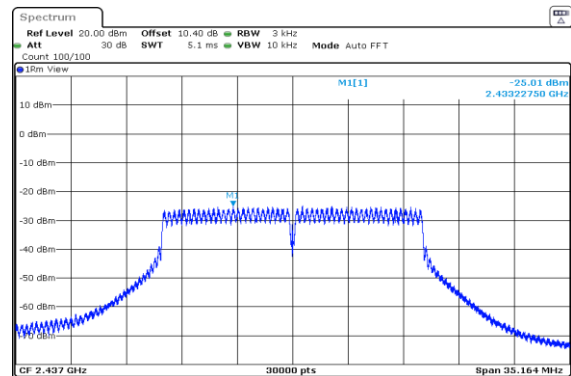
B.3



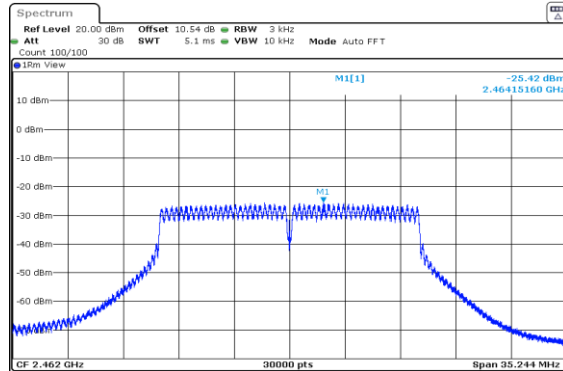
C.1



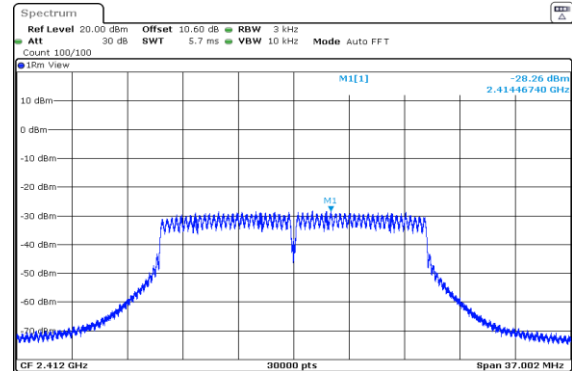
C.2



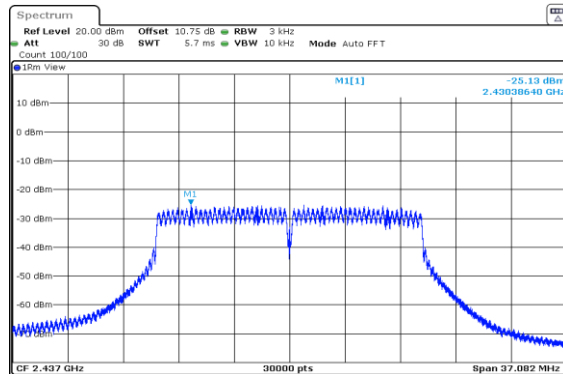
C.3



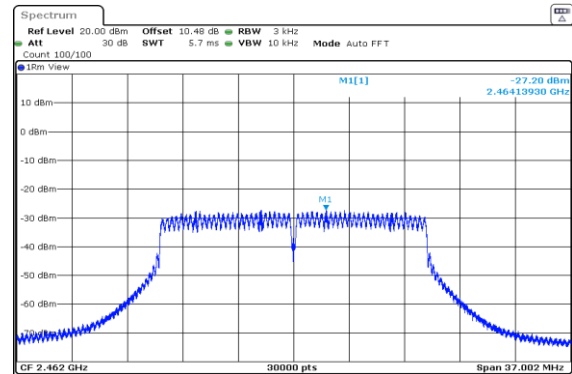
D.1



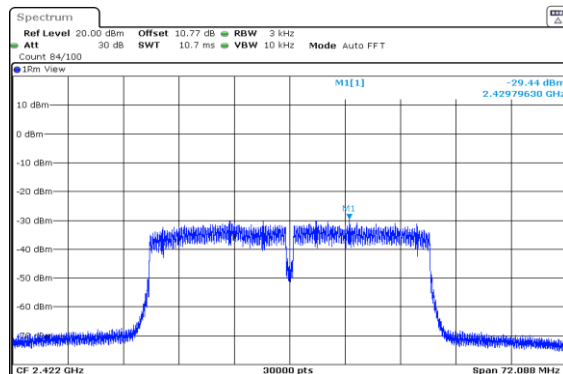
D.2



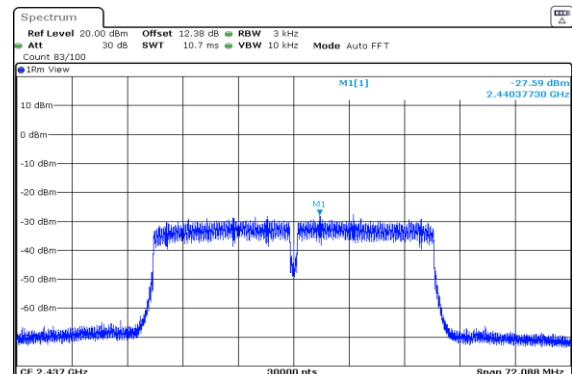
D.3



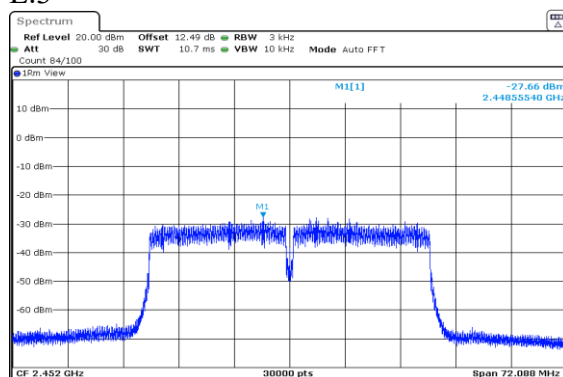
E.1



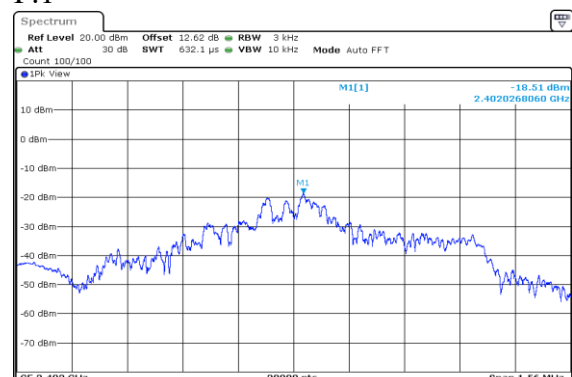
E.2



E.3



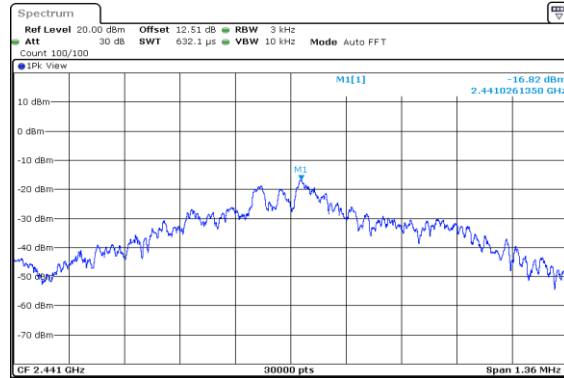
F.1



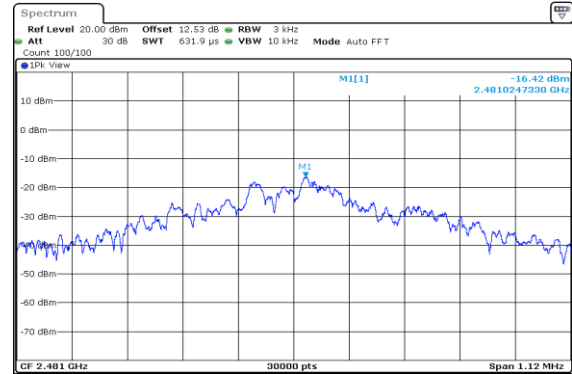
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4.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Result:

Pass

Test Specification

Test standard

: FCC 47 CFR Part 15.247 (d)

Basic standard

: ANSI C63.10: 2020, Clause 11.11

Limits

: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)

Kind of test site

: Shielded Room

Test Setup

Date of testing

: 2025.02.08

Input voltage

: DC 20V

Operational mode

: A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3
E.1, E.2, E.3, F.1, F.2, F.3

Temperature

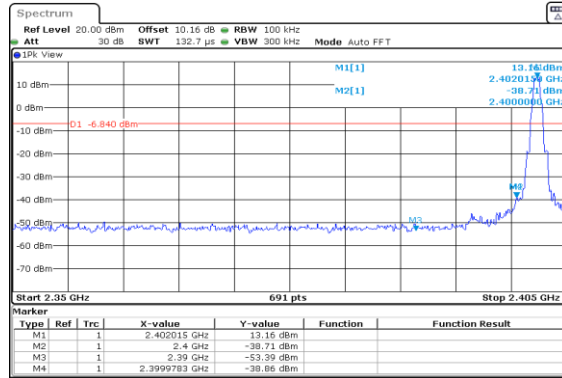
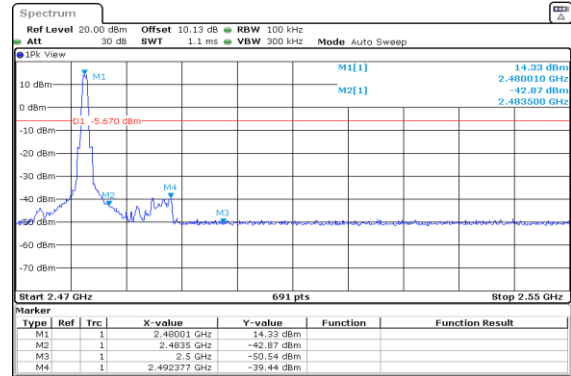
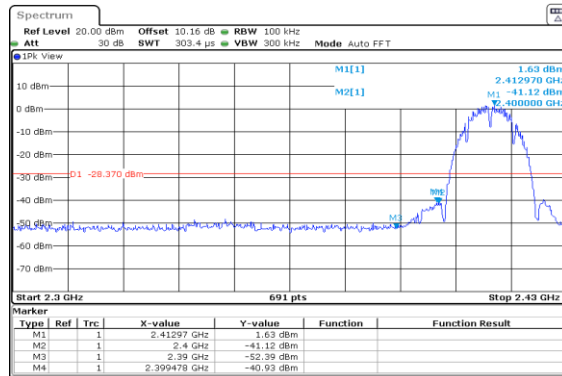
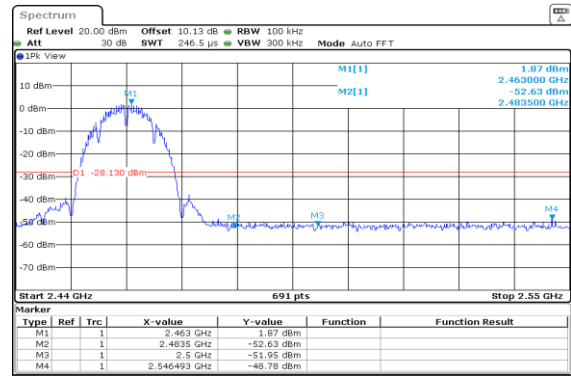
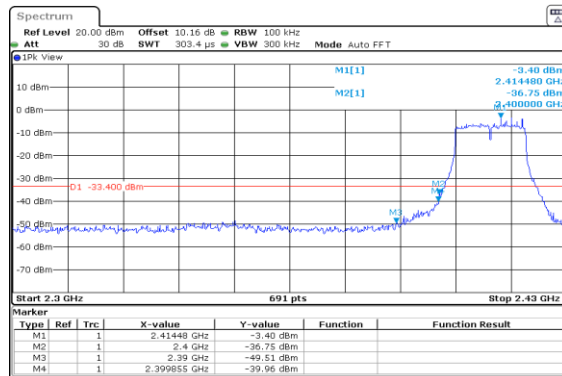
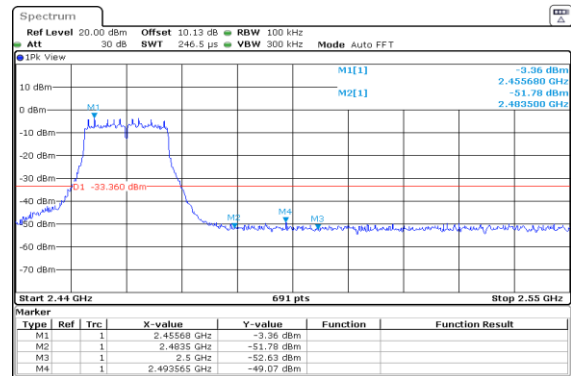
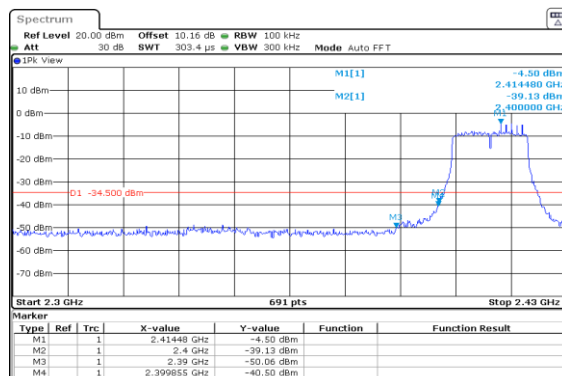
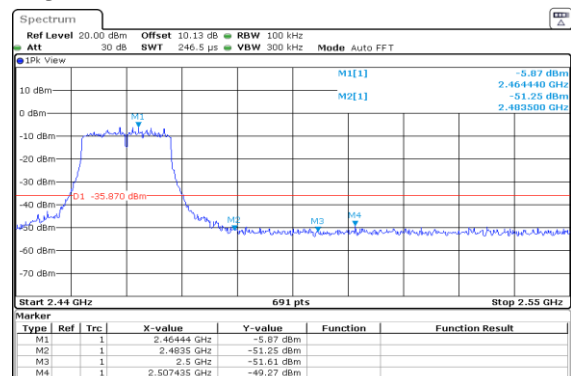
: 20°C

Relative humidity

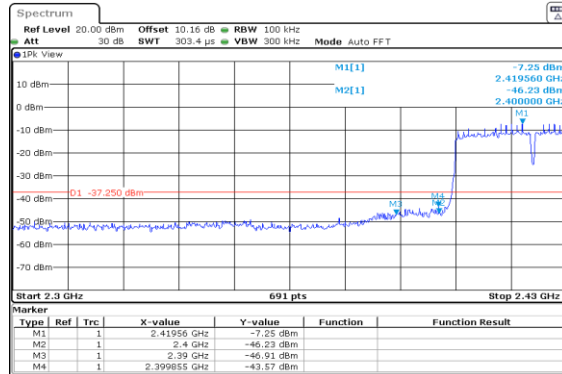
: 55%

Atmospheric pressure

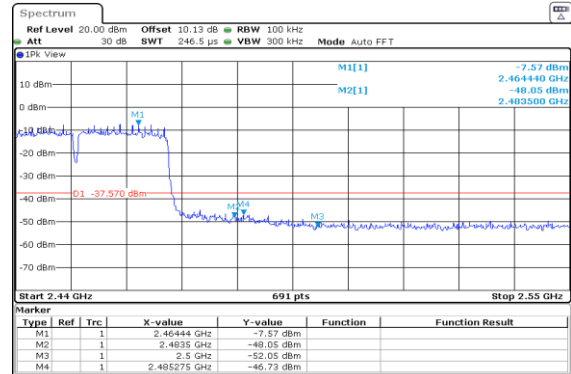
: 101.2 kPa

Figure 4: Band Edge
A.1

A.3

B.1

B.3

C.1

C.3

D.1

D.3


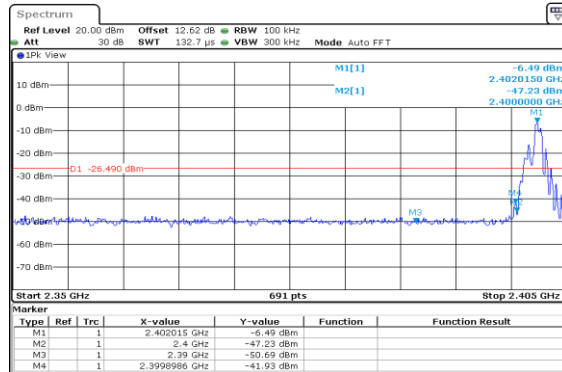
E.1



E.3



F.1



F.3

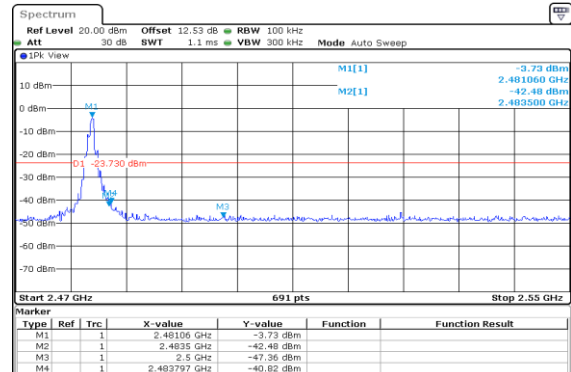
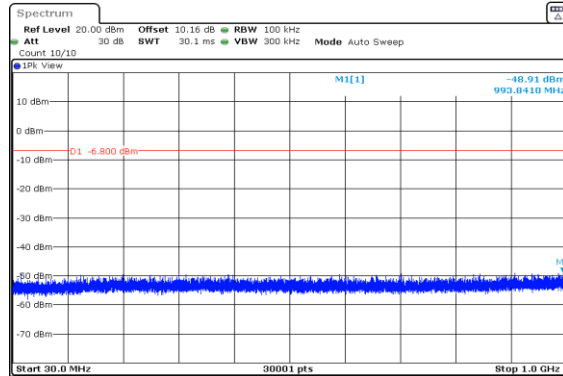
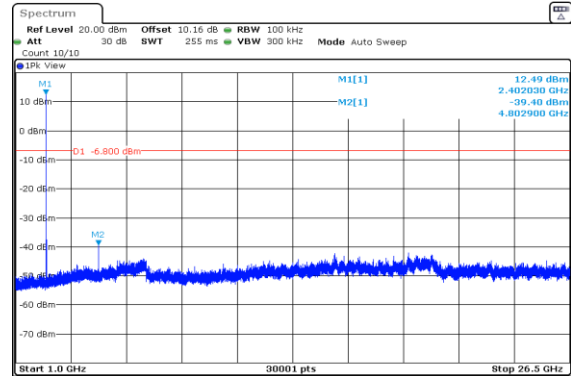


Figure 5: Conducted Spurious Emission

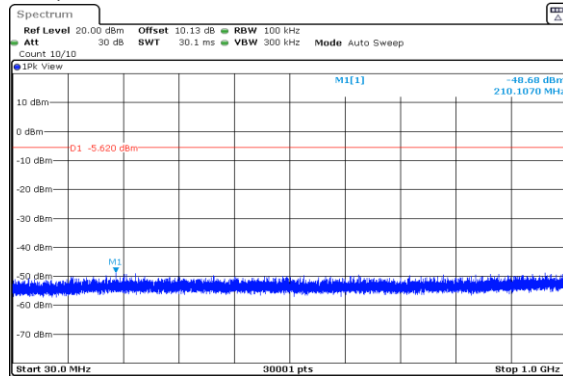
A.1, 30MHz-1000MHz



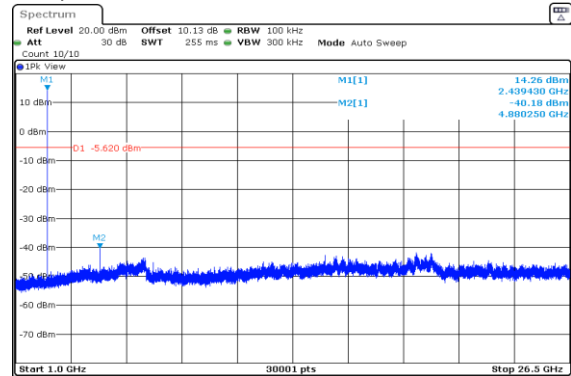
A.1, 1GHz-26.5GHz



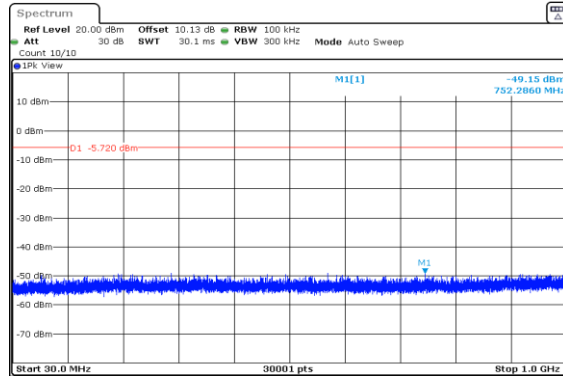
A.2, 30MHz-1000MHz



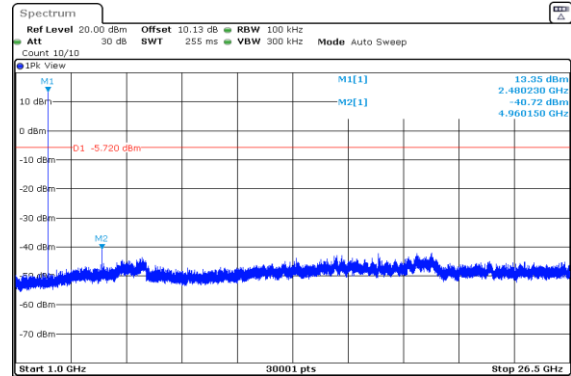
A.2, 1GHz-26.5GHz



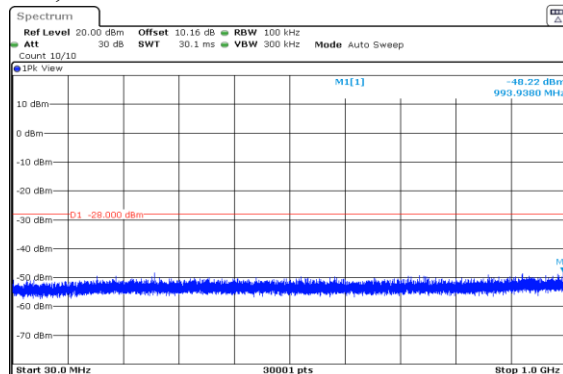
A.3, 30MHz-1000MHz



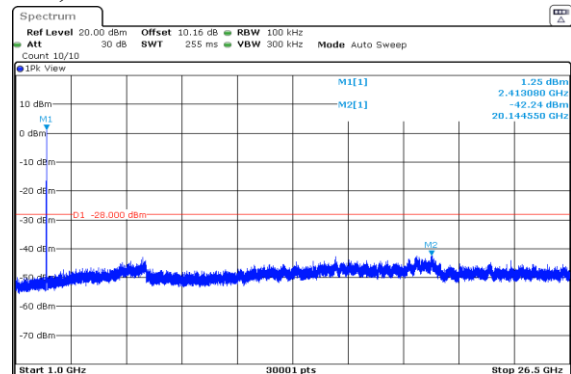
A.3, 1GHz-26.5GHz



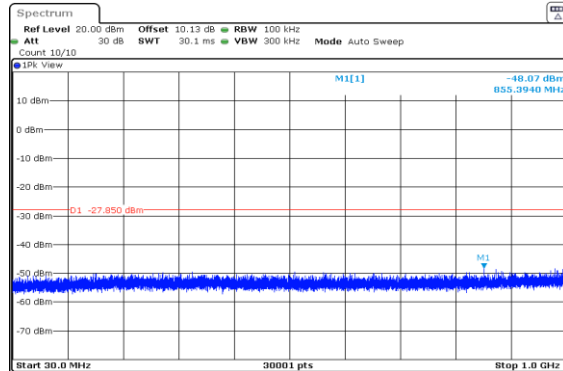
B.1, 30MHz-1000MHz



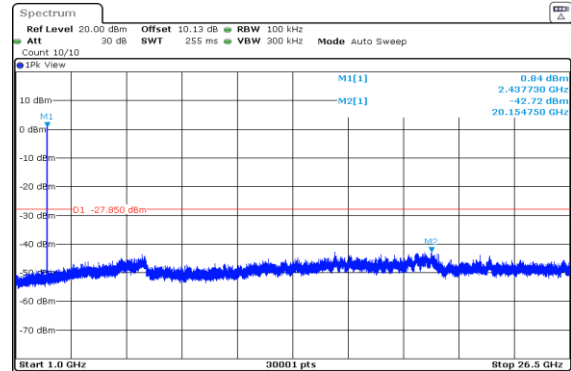
B.1, 1GHz-26.5GHz



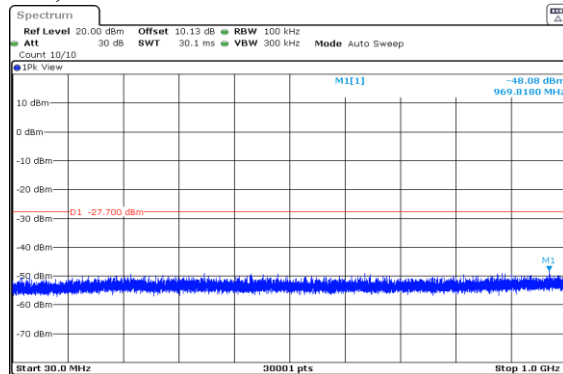
B.2, 30MHz-1000MHz



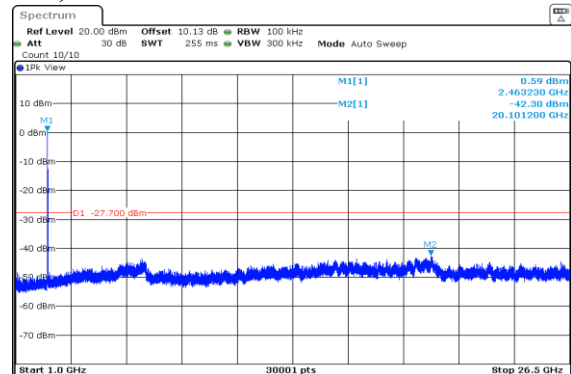
B.2, 1GHz-26.5GHz



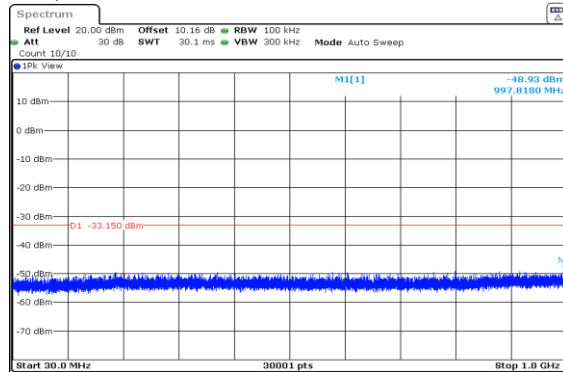
B.3, 30MHz-1000MHz



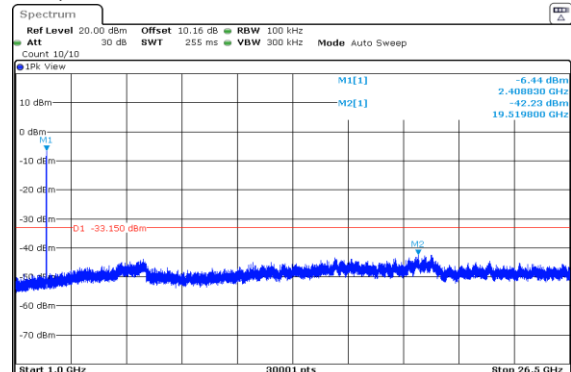
B.3, 1GHz-26.5GHz



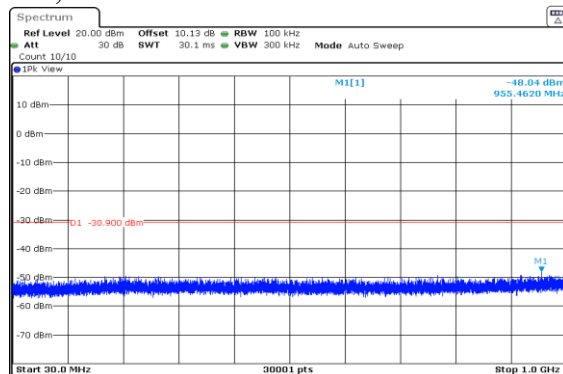
C.1, 30MHz-1000MHz



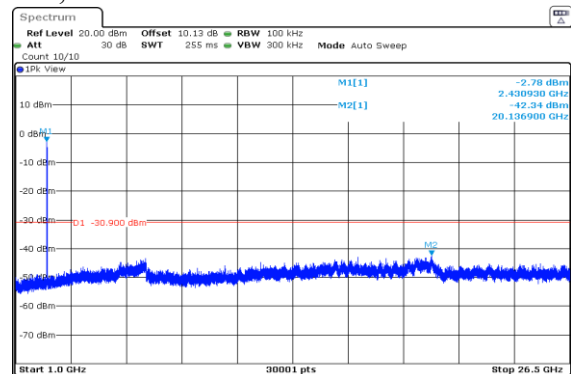
C.1, 1GHz-26.5GHz



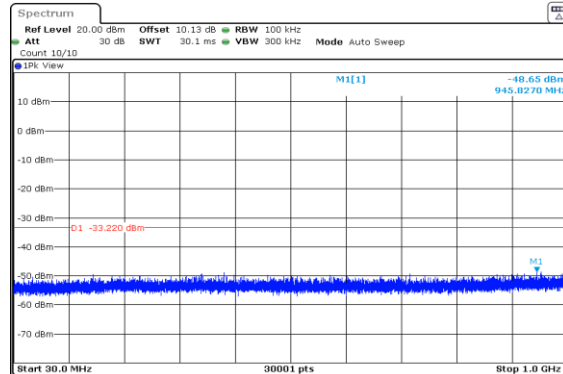
C.2, 30MHz-1000MHz



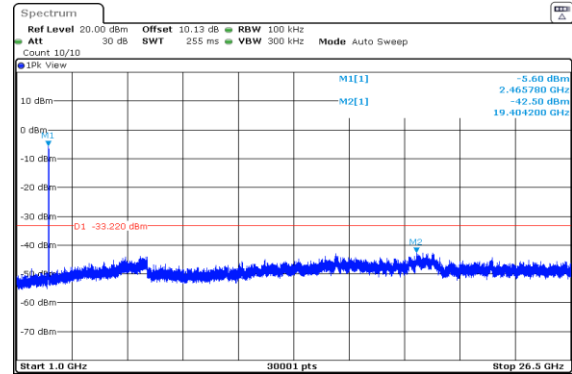
C.2, 1GHz-26.5GHz



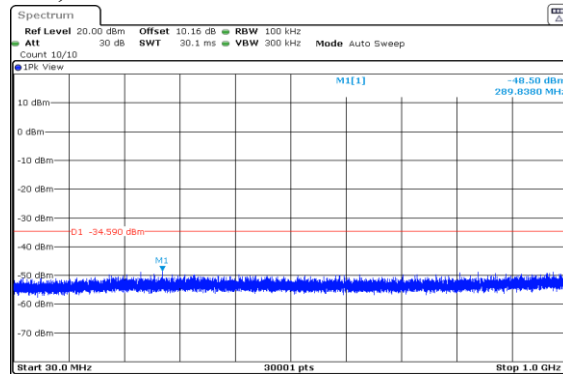
C.3, 30MHz-1000MHz



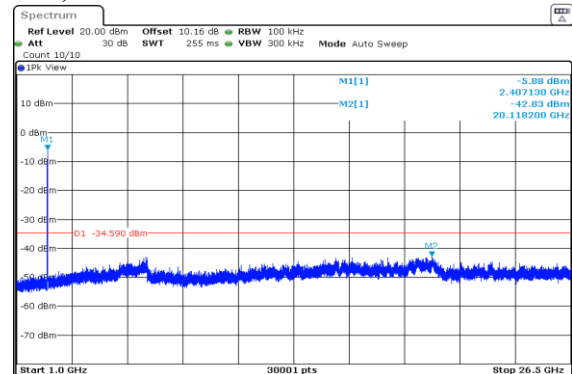
C.3, 1GHz-26.5GHz



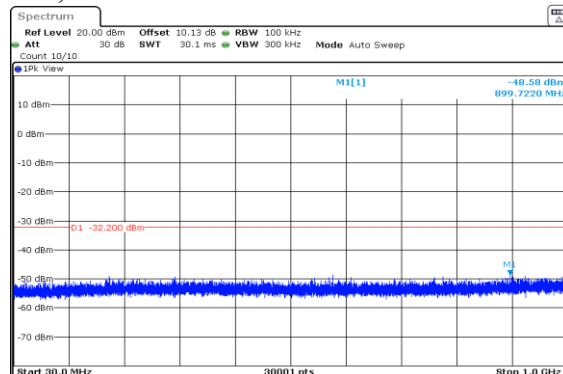
D.1, 30MHz-1000MHz



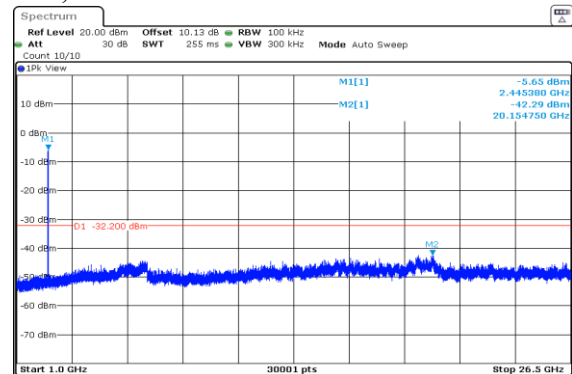
D.1, 1GHz-26.5GHz



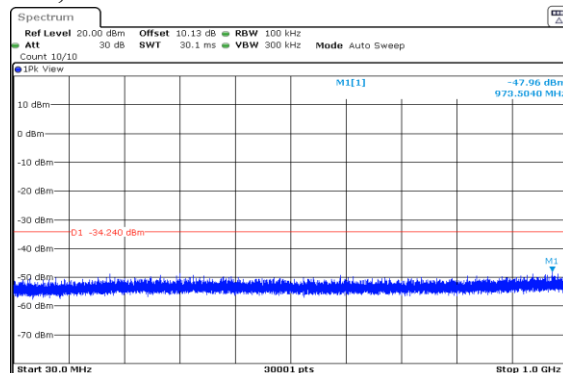
D.2, 30MHz-1000MHz



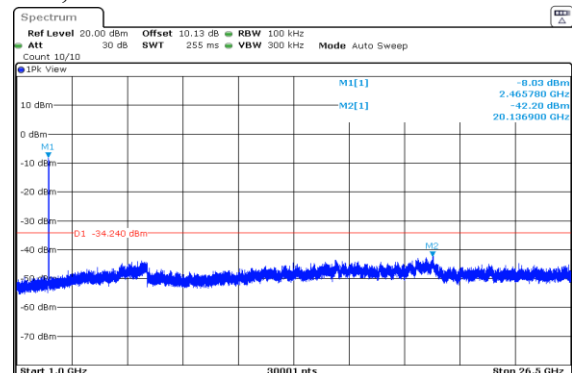
D.2, 1GHz-26.5GHz

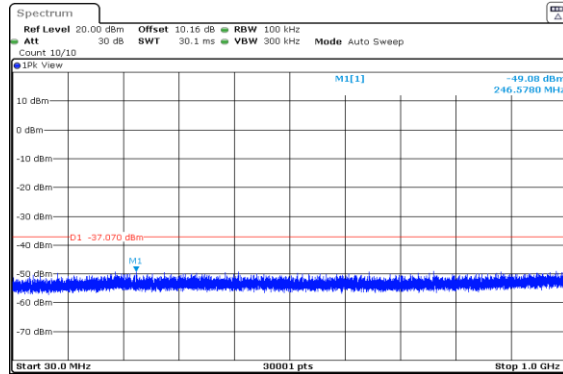
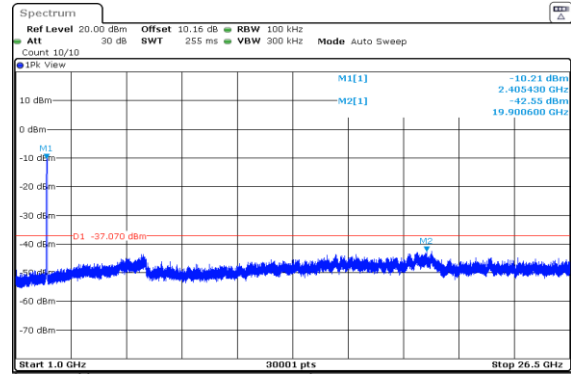
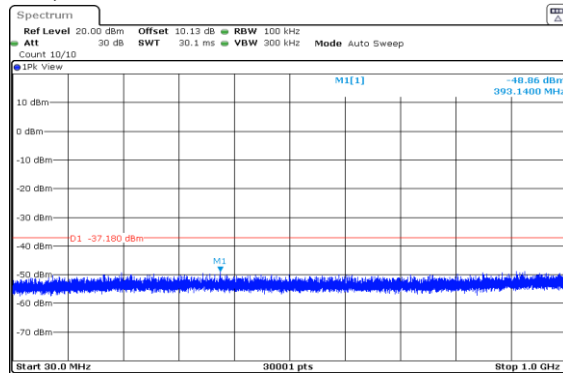
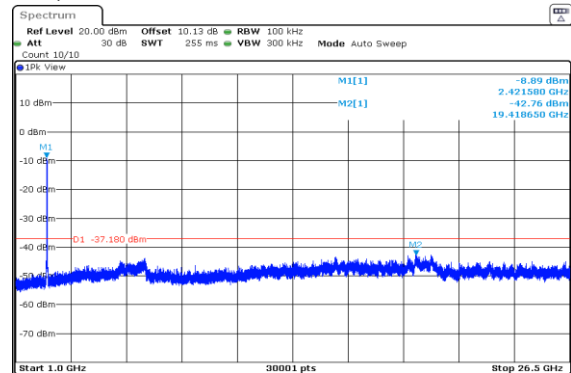
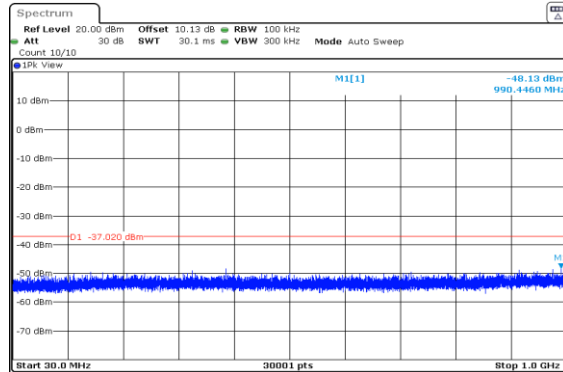
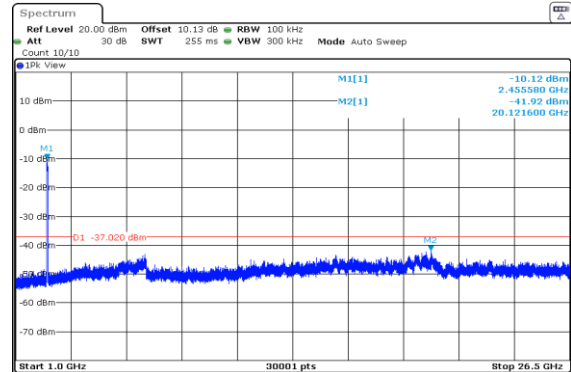
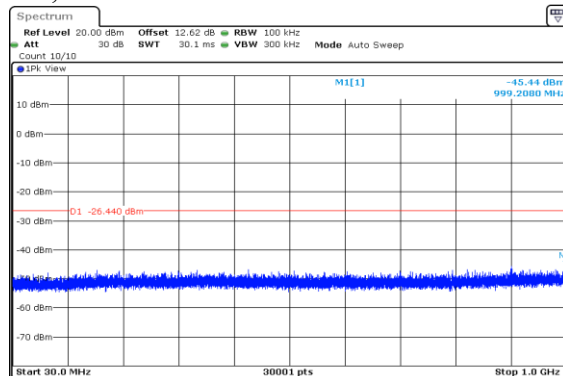
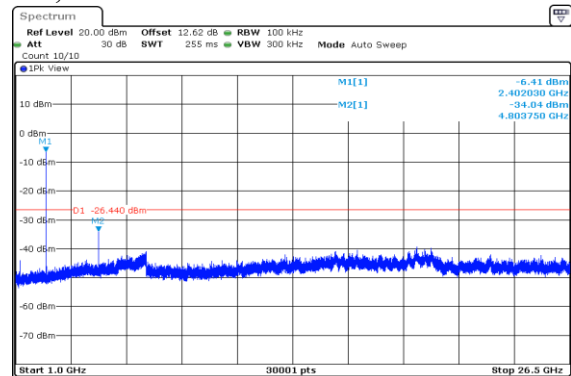


D.3, 30MHz-1000MHz

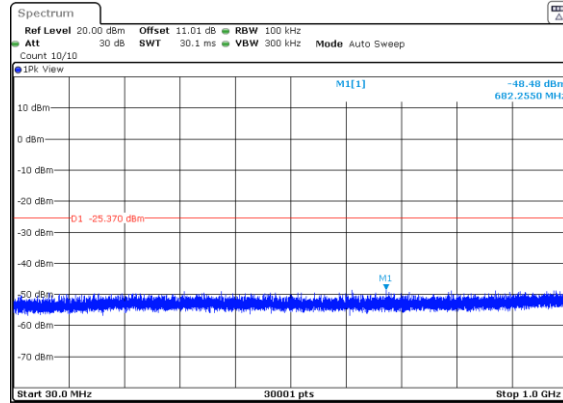


D.3, 1GHz-26.5GHz

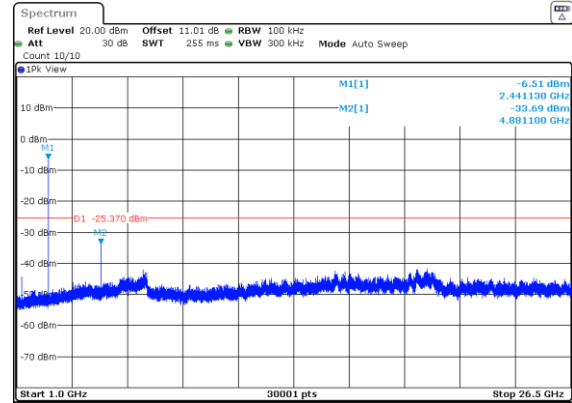


E.1, 30MHz-1000MHz

E.1, 1GHz-26.5GHz

E.2, 30MHz-1000MHz

E.2, 1GHz-26.5GHz

E.3, 30MHz-1000MHz

E.3, 1GHz-26.5GHz

F.1, 30MHz-1000MHz

F.1, 1GHz-26.5GHz


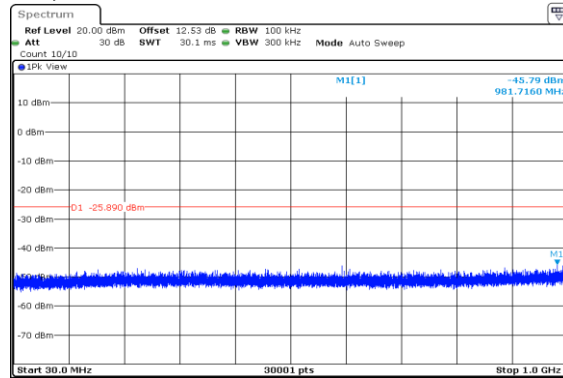
F.2, 30MHz-1000MHz



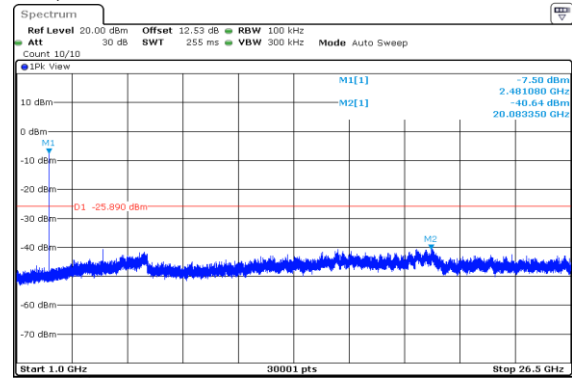
F.2, 1GHz-26.5GHz



F.3, 30MHz-1000MHz



F.3, 1GHz-26.5GHz



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4.1.6 Radiated Emission

Result:

Pass

Test Specification

Test standard : CFR47 FCC Part 15.209

Basic standard : ANSI C63.10: 2020, Clause 6.5&6.6; Clause 11.12.1

Port : Enclosure

Frequency range : 30MHz-10th Harmonic for intentional radiator

Limits : CFR47 FCC Part 15.205

CFR47 FCC Part 15.209

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025.03.06-2025.04.11

Input voltage : DC 20V

Operational mode : A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3
E.1, E.2, E.3, F.1, F.2, F.3

Temperature : 21°C

Relative humidity : 58%

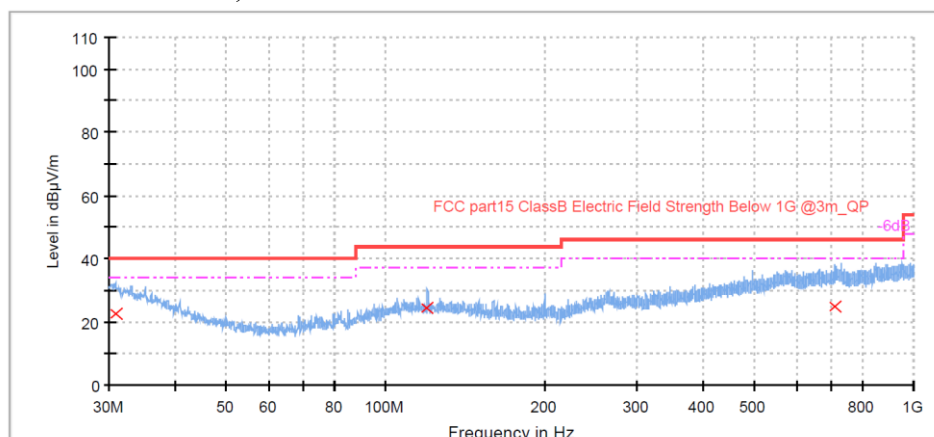
Atmospheric pressure : 101.2 kPa

The result of Radiated Spurious Emission:

The radiated measurement result is calculated based on the following formula by the test software: Emission Level = Reading level + Correction (Antenna factor + Cable loss Preamplifier)

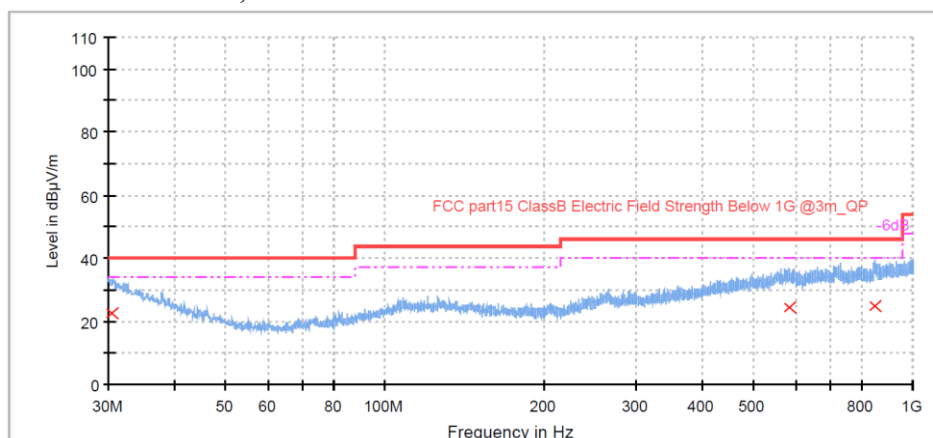
Figure 6: Spectral Diagrams, Radiated Spurious Emission, Mode A.1

30MHz-1000MHz, Horizontal

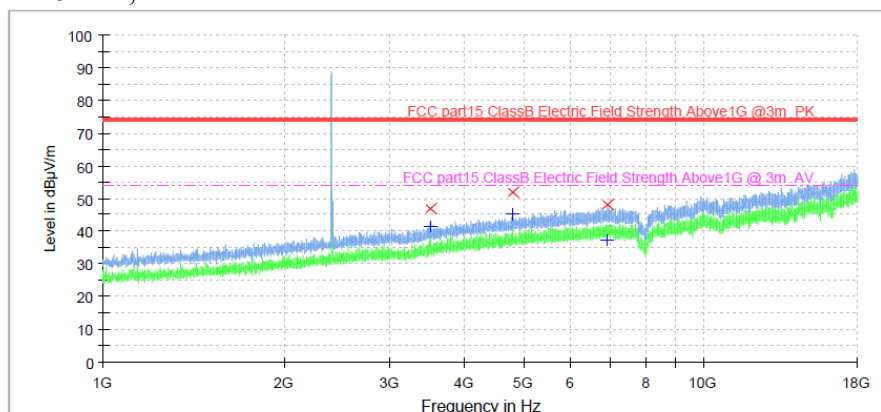

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.810000	22.4	1000.0	120.000	H	25.0	17.6	40.0
120.100000	24.4	1000.0	120.000	H	19.0	19.1	43.5
710.830000	24.7	1000.0	120.000	H	27.0	21.3	46.0

30MHz-1000MHz, Vertical


Limit and Margin

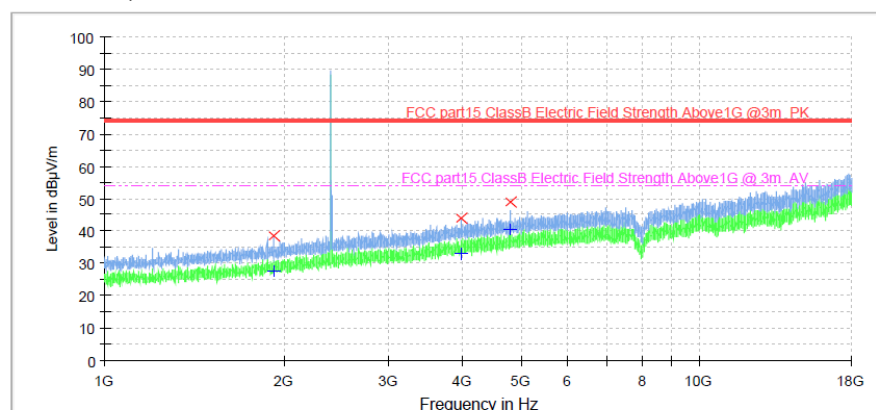
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.380000	22.7	1000.0	120.000	V	25.2	17.3	40.0
582.520000	24.5	1000.0	120.000	V	27.1	21.5	46.0
845.230000	24.9	1000.0	120.000	V	28.4	21.2	46.0

1GHz-18GHz, Horizontal

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3497.405000	47.0	1000.0	1000.000	150.0	H	0.0	0.4	27.0	74.0
4804.280000	52.0	1000.0	1000.000	150.0	H	0.0	4.1	22.0	74.0
6899.530000	47.9	1000.0	1000.000	150.0	H	0.0	7.9	26.1	74.0

Limit and Margin-AV

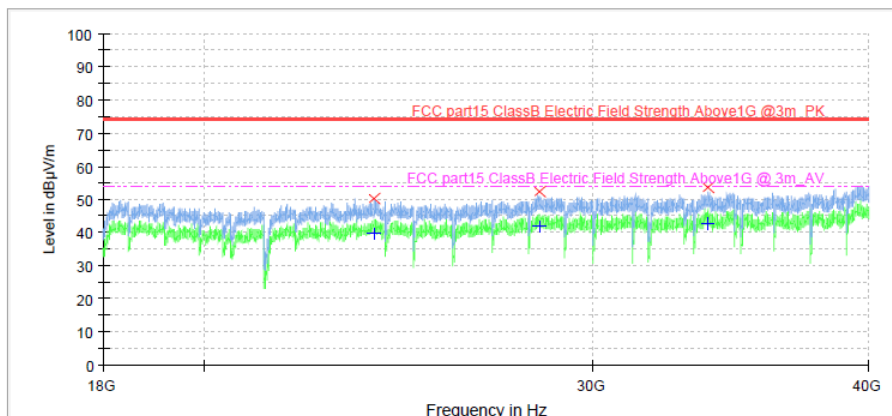
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3497.405000	41.5	1000.0	1000.000	150.0	H	0.0	0.4	12.5	54.0
4804.280000	45.1	1000.0	1000.000	150.0	H	0.0	4.1	8.9	54.0
6899.530000	37.2	1000.0	1000.000	150.0	H	0.0	7.9	16.8	54.0

1GHz-18GHz, Vertical

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1919.595000	38.7	1000.0	1000.000	150.0	V	0.0	-7.8	35.3	74.0
3969.685000	44.0	1000.0	1000.000	150.0	V	0.0	1.8	30.0	74.0
4803.220000	49.0	1000.0	1000.000	150.0	V	0.0	4.1	25.0	74.0

Limit and Margin-AV

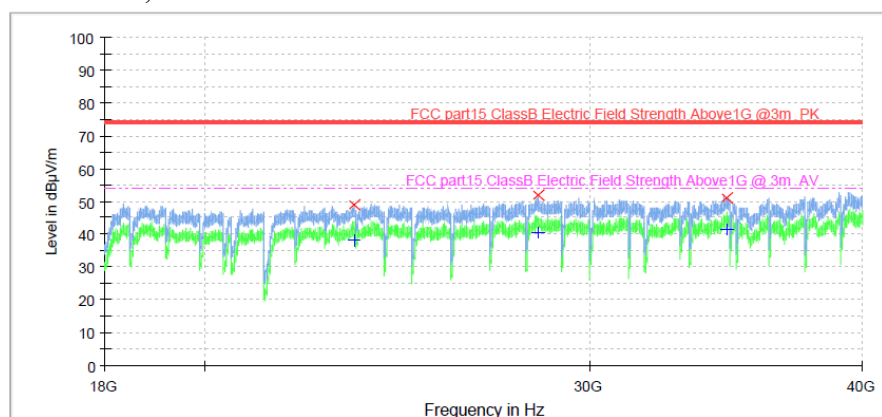
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1919.595000	27.5	1000.0	1000.000	150.0	V	0.0	-7.8	26.5	54.0
3969.685000	32.9	1000.0	1000.000	150.0	V	0.0	1.8	21.1	54.0
4803.220000	40.8	1000.0	1000.000	150.0	V	0.0	4.1	13.3	54.0

18GHz-25GHz, Horizontal

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
23881.560000	50.4	1000.0	1000.000	150.0	H	0.0	-4.8	23.6	74.0
28373.000000	52.5	1000.0	1000.000	150.0	H	0.0	-2.4	21.5	74.0
33831.060000	53.5	1000.0	1000.000	150.0	H	0.0	-1.0	20.5	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23881.560000	39.8	1000.0	1000.000	150.0	H	0.0	-4.8	14.2	54.0
28373.000000	41.9	1000.0	1000.000	150.0	H	0.0	-2.4	12.2	54.0
33831.060000	42.8	1000.0	1000.000	150.0	H	0.0	-1.0	11.2	54.0

18GHz-25GHz, Vertical

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
23410.625000	48.8	1000.0	1000.000	150.0	V	0.0	-5.0	25.2	74.0
28410.125000	51.7	1000.0	1000.000	150.0	V	0.0	-2.3	22.3	74.0
34656.060000	51.1	1000.0	1000.000	150.0	V	0.0	-1.3	22.9	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23410.625000	38.0	1000.0	1000.000	150.0	V	0.0	-5.0	16.0	54.0
28410.125000	40.6	1000.0	1000.000	150.0	V	0.0	-2.3	13.4	54.0
34656.060000	41.3	1000.0	1000.000	150.0	V	0.0	-1.3	12.7	54.0

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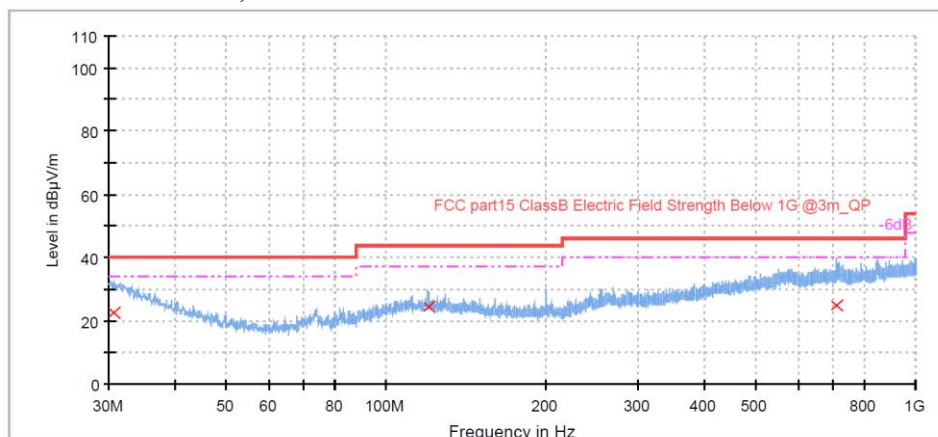
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Figure 7: Spectral Diagrams, Radiated Spurious Emission, Mode A.2

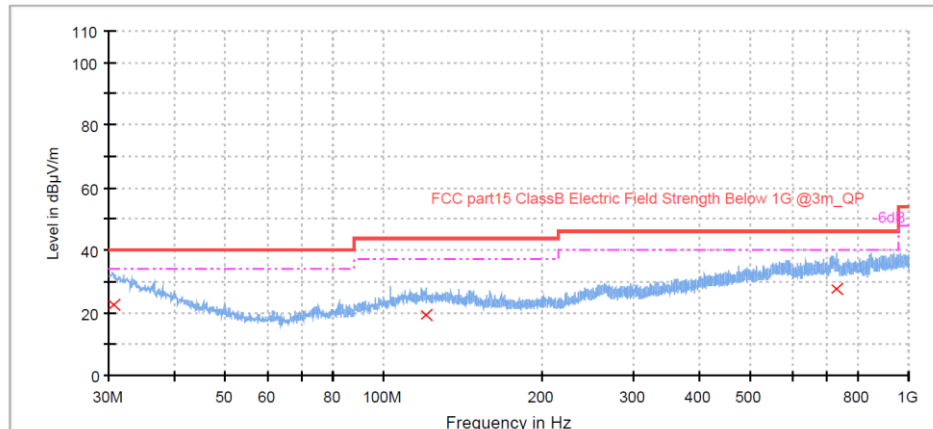
30MHz-1000MHz, Horizontal



Limit and Margin

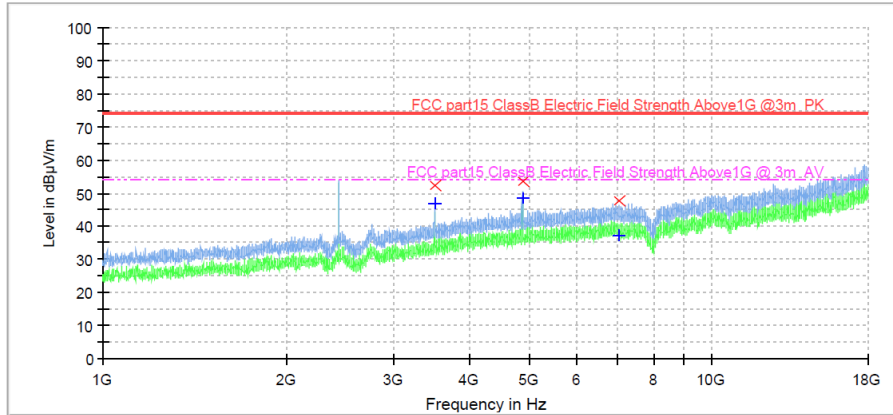
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.700000	22.4	1000.0	120.000	H	25.1	17.6	40.0
120.590000	24.5	1000.0	120.000	H	19.0	19.0	43.5
709.220000	24.6	1000.0	120.000	H	26.9	21.4	46.0

30MHz-1000MHz, Vertical



Limit and Margin

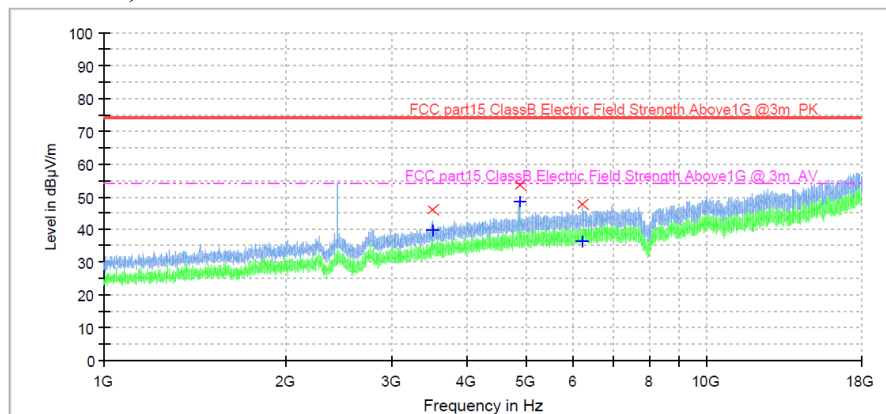
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.650000	22.6	1000.0	120.000	V	25.1	17.4	40.0
120.430000	19.4	1000.0	120.000	V	19.0	24.1	43.5
729.210000	27.5	1000.0	120.000	V	27.4	18.6	46.0

1GHz-18GHz, Horizontal

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3497.935000	52.1	1000.0	1000.000	150.0	H	0.0	0.4	21.9	74.0
4880.250000	53.6	1000.0	1000.000	150.0	H	0.0	4.3	20.4	74.0
7015.875000	47.6	1000.0	1000.000	150.0	H	0.0	8.1	26.4	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3497.935000	47.0	1000.0	1000.000	150.0	H	0.0	0.4	7.0	54.0
4880.250000	48.6	1000.0	1000.000	150.0	H	0.0	4.3	5.4	54.0
7015.875000	37.1	1000.0	1000.000	150.0	H	0.0	8.1	16.9	54.0

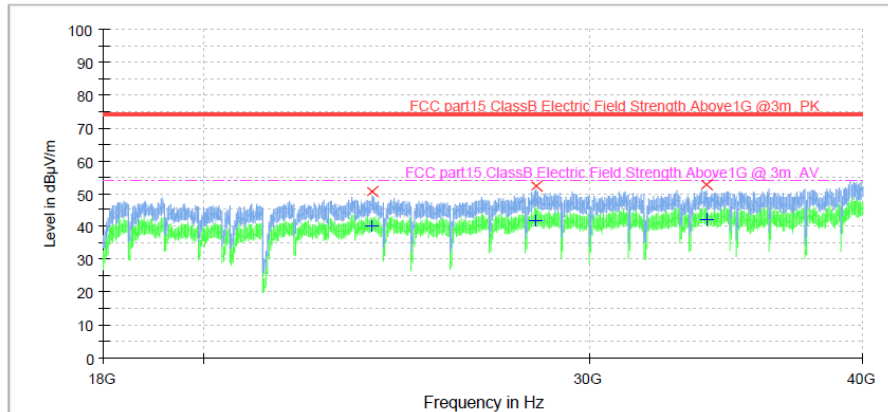
1GHz-18GHz, Vertical

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3497.405000	45.9	1000.0	1000.000	150.0	V	0.0	0.4	28.1	74.0
4880.250000	53.5	1000.0	1000.000	150.0	V	0.0	4.3	20.5	74.0
6195.095000	47.8	1000.0	1000.000	150.0	V	0.0	6.9	26.2	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3497.405000	39.7	1000.0	1000.000	150.0	V	0.0	0.4	14.3	54.0
4880.250000	48.7	1000.0	1000.000	150.0	V	0.0	4.3	5.3	54.0
6195.095000	36.5	1000.0	1000.000	150.0	V	0.0	6.9	17.5	54.0

18GHz-25GHz, Horizontal



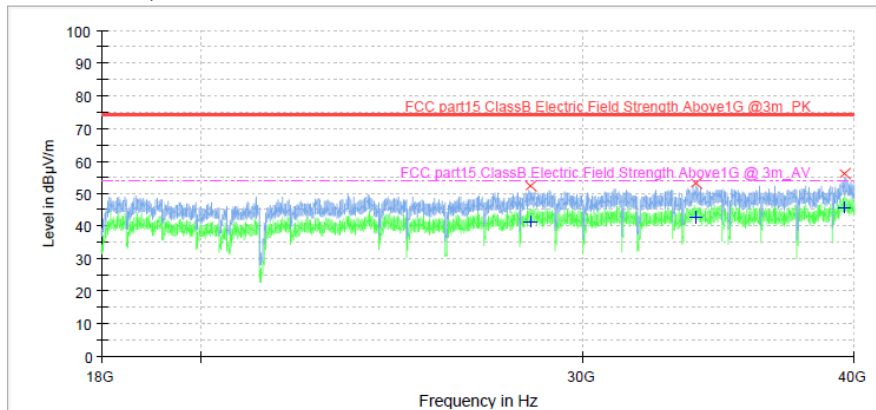
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
23897.375000	50.5	1000.0	1000.000	150.0	H	0.0	-4.8	23.5	74.0
28380.560000	52.3	1000.0	1000.000	150.0	H	0.0	-2.4	21.7	74.0
33930.060000	52.7	1000.0	1000.000	150.0	H	0.0	-1.0	21.4	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23897.375000	40.0	1000.0	1000.000	150.0	H	0.0	-4.8	14.0	54.0
28380.560000	41.7	1000.0	1000.000	150.0	H	0.0	-2.4	12.3	54.0
33930.060000	42.1	1000.0	1000.000	150.0	H	0.0	-1.0	11.9	54.0

18GHz-25GHz, Vertical



Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
28381.935000	52.1	1000.0	1000.000	150.0	V	0.0	-2.4	21.9	74.0
33847.560000	53.2	1000.0	1000.000	150.0	V	0.0	-1.0	20.8	74.0
39588.875000	56.1	1000.0	1000.000	150.0	V	0.0	4.5	17.9	74.0

Limit and Margin-AV

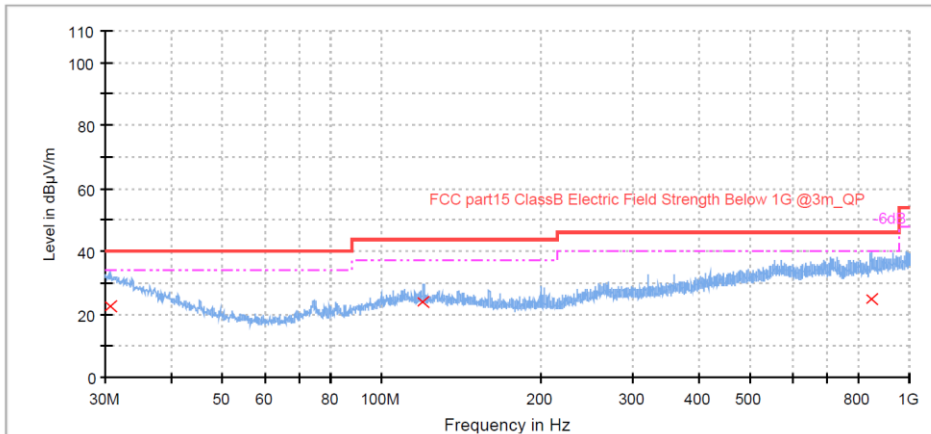
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
28381.935000	41.6	1000.0	1000.000	150.0	V	0.0	-2.4	12.4	54.0
33847.560000	42.8	1000.0	1000.000	150.0	V	0.0	-1.0	11.2	54.0
39588.875000	45.5	1000.0	1000.000	150.0	V	0.0	4.5	8.5	54.0

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Figure 8: Spectral Diagrams, Radiated Spurious Emission, Mode A.3

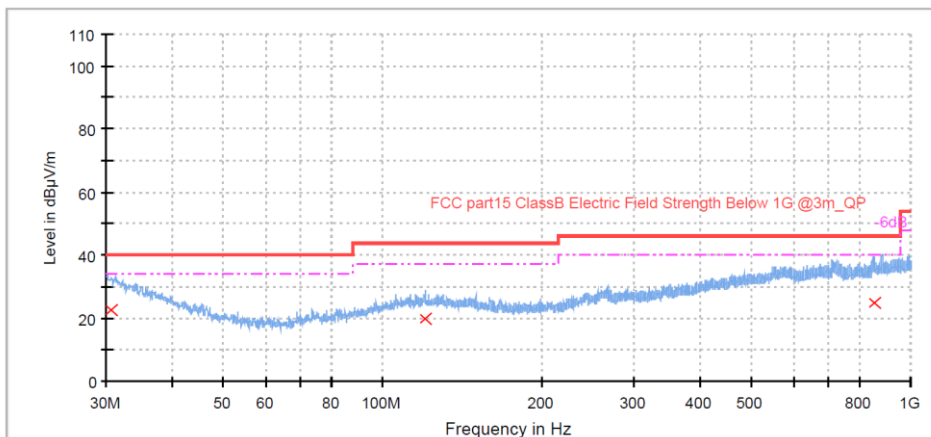
30MHz-1000MHz, Horizontal



Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.700000	22.5	1000.0	120.000	H	25.1	17.5	40.0
120.050000	24.1	1000.0	120.000	H	19.0	19.4	43.5
845.720000	24.8	1000.0	120.000	H	28.4	21.2	46.0

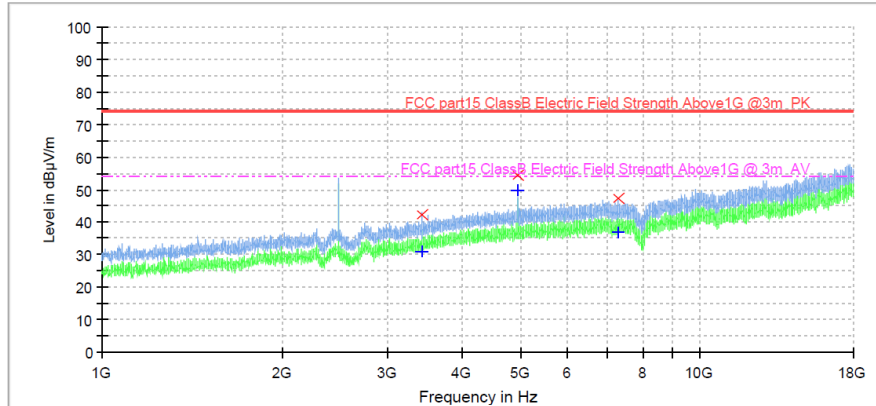
30MHz-1000MHz, Vertical



Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.650000	22.6	1000.0	120.000	V	25.1	17.4	40.0
120.530000	19.8	1000.0	120.000	V	19.0	23.7	43.5
852.510000	25.0	1000.0	120.000	V	28.5	21.1	46.0

1GHz-18GHz, Horizontal



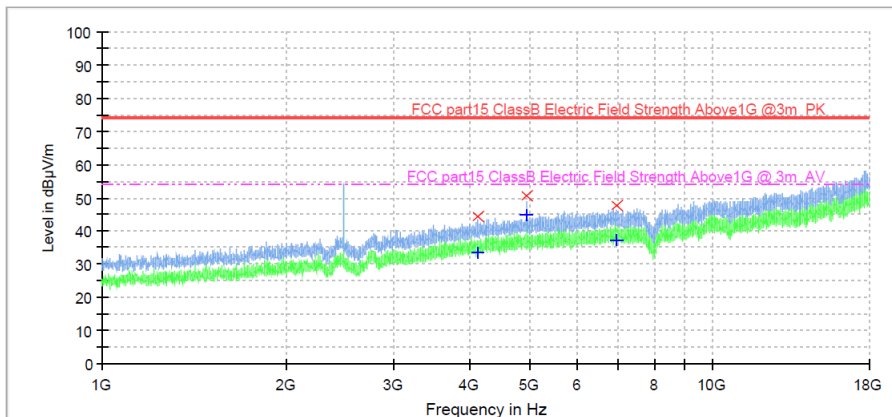
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3429.935000	42.1	1000.0	1000.000	150.0	H	0.0	0.2	31.9	74.0
4959.935000	54.4	1000.0	1000.000	150.0	H	0.0	4.6	19.6	74.0
7269.810000	47.2	1000.0	1000.000	150.0	H	0.0	8.3	26.9	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
3429.935000	31.0	1000.0	1000.000	150.0	H	0.0	0.2	23.0	54.0
4959.935000	49.7	1000.0	1000.000	150.0	H	0.0	4.6	4.3	54.0
7269.810000	36.8	1000.0	1000.000	150.0	H	0.0	8.3	17.2	54.0

1GHz-18GHz, Vertical

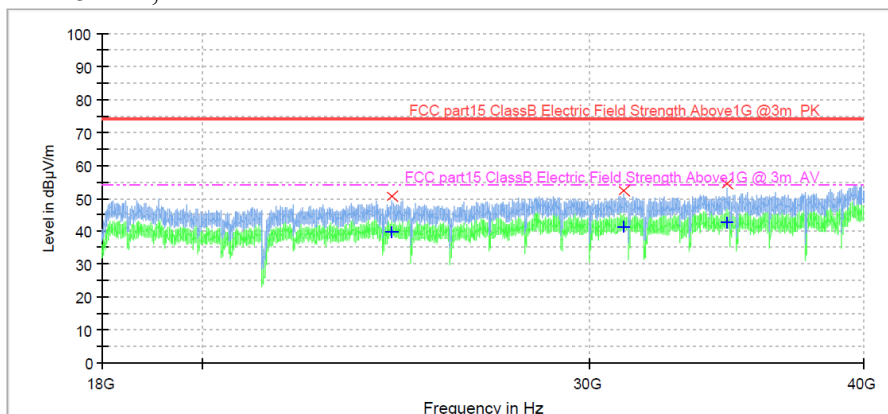


Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4108.345000	44.4	1000.0	1000.000	150.0	V	0.0	2.1	29.6	74.0
4959.405000	50.8	1000.0	1000.000	150.0	V	0.0	4.6	23.2	74.0
6945.220000	47.8	1000.0	1000.000	150.0	V	0.0	8.0	26.2	74.0

Limit and Margin-AV

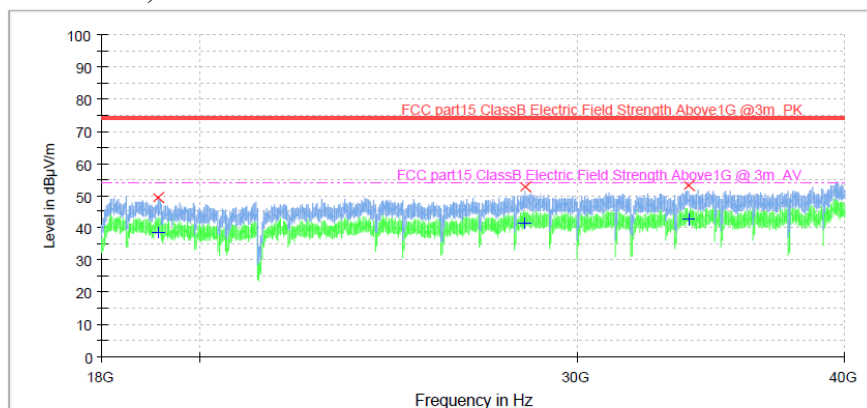
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4108.345000	33.5	1000.0	1000.000	150.0	V	0.0	2.1	20.5	54.0
4959.405000	44.9	1000.0	1000.000	150.0	V	0.0	4.6	9.1	54.0
6945.220000	37.3	1000.0	1000.000	150.0	V	0.0	8.0	16.7	54.0

18GHz-25GHz, Horizontal

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
24382.060000	50.6	1000.0	1000.000	150.0	H	0.0	-4.8	23.5	74.0
31101.000000	52.2	1000.0	1000.000	150.0	H	0.0	-3.9	21.8	74.0
34665.000000	54.4	1000.0	1000.000	150.0	H	0.0	-1.3	19.6	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
24382.060000	40.0	1000.0	1000.000	150.0	H	0.0	-4.8	14.1	54.0
31101.000000	41.5	1000.0	1000.000	150.0	H	0.0	-3.9	12.5	54.0
34665.000000	42.8	1000.0	1000.000	150.0	H	0.0	-1.3	11.2	54.0

18GHz-25GHz, Vertical

Limit and Margin-PK

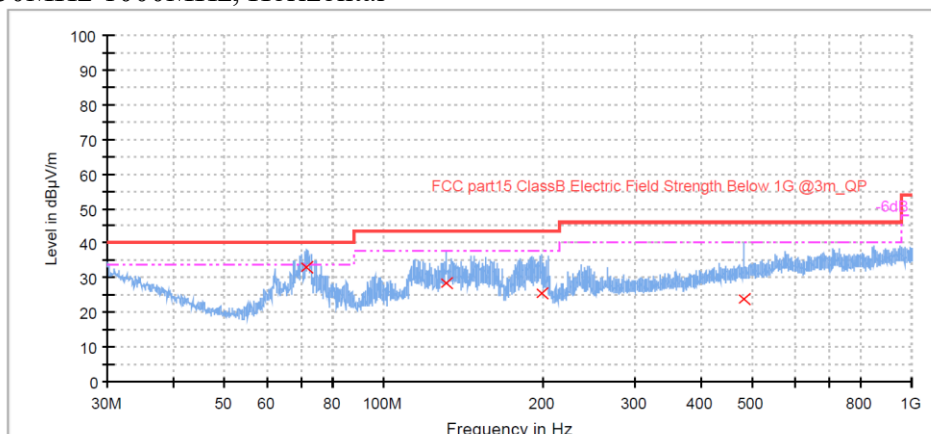
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19132.310000	49.3	1000.0	1000.000	150.0	V	0.0	-8.5	24.7	74.0
28376.435000	52.9	1000.0	1000.000	150.0	V	0.0	-2.4	21.1	74.0
33839.310000	53.3	1000.0	1000.000	150.0	V	0.0	-1.0	20.7	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19132.310000	38.3	1000.0	1000.000	150.0	V	0.0	-8.5	15.7	54.0
28376.435000	41.6	1000.0	1000.000	150.0	V	0.0	-2.4	12.4	54.0
33839.310000	42.9	1000.0	1000.000	150.0	V	0.0	-1.0	11.2	54.0

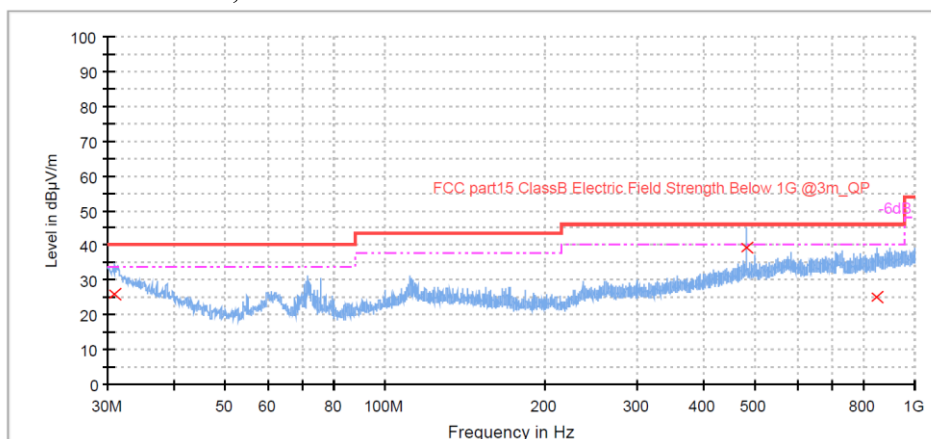
Figure 9: Spectral Diagrams, Radiated Spurious Emission, Mode B.1

30MHz-1000MHz, Horizontal

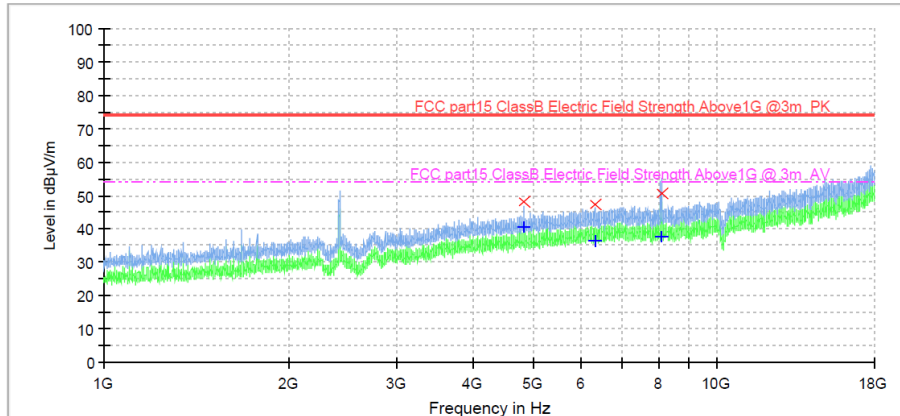

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
71.330000	33.3	1000.0	120.000	H	13.0	6.8	40.0
131.200000	28.6	1000.0	120.000	H	18.8	14.9	43.5
199.370000	25.7	1000.0	120.000	H	16.4	17.8	43.5
479.970000	23.7	1000.0	120.000	H	25.2	22.4	46.0

30MHz-1000MHz, Vertical


Limit and Margin

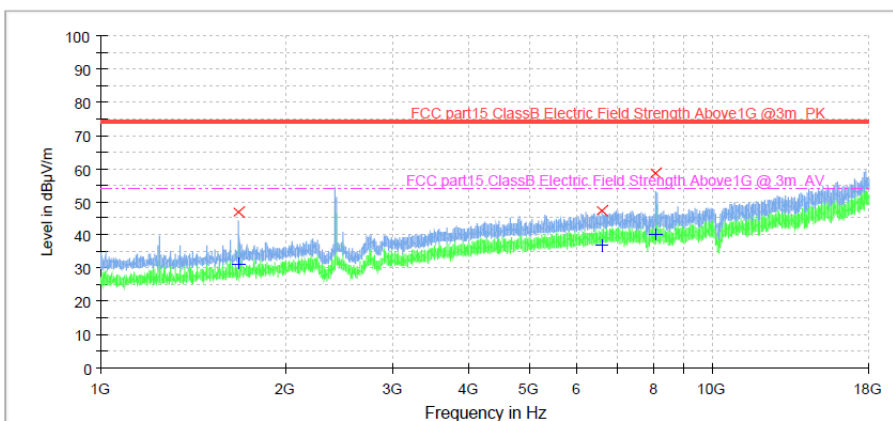
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	26.1	1000.0	120.000	V	24.9	13.9	40.0
479.970000	39.2	1000.0	120.000	V	25.2	6.8	46.0
846.630000	25.1	1000.0	120.000	V	28.4	20.9	46.0

1GHz-18GHz, Horizontal

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4844.125000	48.1	1000.0	1000.000	150.0	H	0.0	3.8	25.9	74.0
6301.345000	47.4	1000.0	1000.000	150.0	H	0.0	7.2	26.6	74.0
8098.560000	50.5	1000.0	1000.000	150.0	H	0.0	8.9	23.5	74.0

Limit and Margin-AV

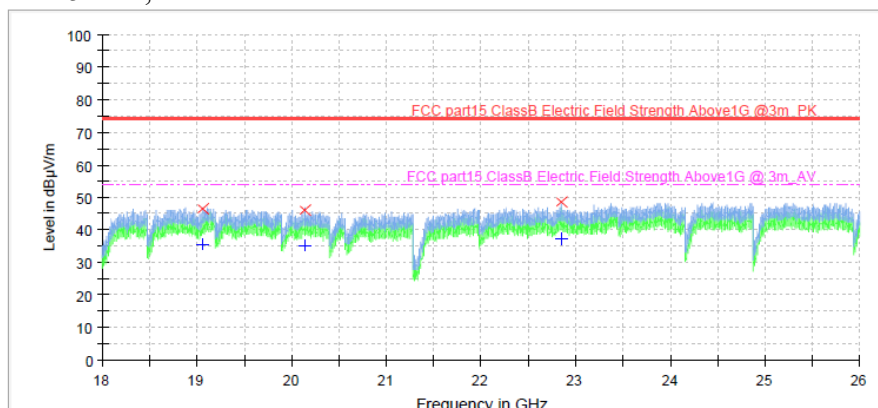
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4844.125000	40.4	1000.0	1000.000	150.0	H	0.0	3.8	13.6	54.0
6301.345000	36.4	1000.0	1000.000	150.0	H	0.0	7.2	17.6	54.0
8098.560000	37.7	1000.0	1000.000	150.0	H	0.0	8.9	16.3	54.0

1GHz-18GHz, Vertical

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1682.125000	46.8	1000.0	1000.000	150.0	V	0.0	-9.2	27.2	74.0
6594.060000	47.4	1000.0	1000.000	150.0	V	0.0	7.7	26.6	74.0
8083.685000	58.4	1000.0	1000.000	150.0	V	0.0	8.9	15.6	74.0

Limit and Margin-AV

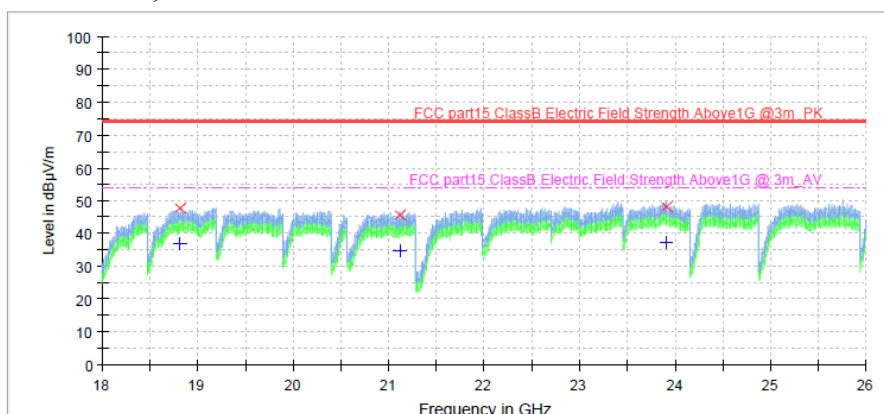
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1682.125000	31.4	1000.0	1000.000	150.0	V	0.0	-9.2	22.6	54.0
6594.060000	36.7	1000.0	1000.000	150.0	V	0.0	7.7	17.3	54.0
8083.685000	40.1	1000.0	1000.000	150.0	V	0.0	8.9	13.9	54.0

18GHz-25GHz, Horizontal

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
19067.750000	46.5	1000.0	1000.000	150.0	H	0.0	-9.2	27.5	74.0
20136.500000	45.9	1000.0	1000.000	150.0	H	0.0	-9.2	28.1	74.0
22855.500000	48.4	1000.0	1000.000	150.0	H	0.0	-5.4	25.6	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19067.750000	35.7	1000.0	1000.000	150.0	H	0.0	-9.2	18.3	54.0
20136.500000	35.3	1000.0	1000.000	150.0	H	0.0	-9.2	18.7	54.0
22855.500000	37.1	1000.0	1000.000	150.0	H	0.0	-5.4	16.9	54.0

18GHz-25GHz, Vertical

Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18822.750000	47.6	1000.0	1000.000	150.0	V	0.0	-9.2	26.5	74.0
21113.750000	45.5	1000.0	1000.000	150.0	V	0.0	-8.7	28.5	74.0
23907.000000	48.1	1000.0	1000.000	150.0	V	0.0	-4.5	25.9	74.0

Limit and Margin-AV

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18822.750000	37.0	1000.0	1000.000	150.0	V	0.0	-9.2	17.0	54.0
21113.750000	34.8	1000.0	1000.000	150.0	V	0.0	-8.7	19.2	54.0
23907.000000	37.3	1000.0	1000.000	150.0	V	0.0	-4.5	16.7	54.0