

Industrial Internet Innovation Center (Shanghai) Co.,Ltd.

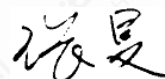
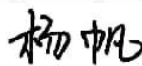
SRD TEST REPORT

PRODUCT	Smart POS System
BRAND	SUNMI
MODEL	T6831
APPLICANT	Shanghai Sunmi Technology Co.,Ltd.
FCC ID	2AH25T6831
ISSUE DATE	June 6, 2024
STANDARD(S)	FCC Part15C

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CONTENTS

1. SUMMARY OF TEST REPORT	3
1.1 TEST STANDARD(S)	3
1.2 REFERENCE DOCUMENT(S)	3
1.3 SUMMARY OF TEST RESULTS	3
1.4 DATA PROVIDED BY APPLICANT	4
2. GENERAL INFORMATION OF THE LABORATORY	5
2.1 TESTING LABORATORY	5
2.2 LABORATORY ENVIRONMENTAL REQUIREMENTS	5
2.3 PROJECT INFORMATION	5
3. GENERAL INFORMATION OF THE CUSTOMER	6
3.1 APPLICANT	6
3.2 MANUFACTURER	6
4. GENERAL INFORMATION OF THE PRODUCT	7
4.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	7
4.2 INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	7
4.3 ADDITIONAL INFORMATION	8
5. TEST CONFIGURATION INFORMATION	9
5.1 LABORATORY ENVIRONMENTAL CONDITIONS	9
5.2 TEST EQUIPMENTS UTILIZED	9
5.3 MEASUREMENT UNCERTAINTY	11
6. TEST RESULTS	13
6.1 PEAK OUTPUT POWER-CONDUCTED	13
6.2 99% OCCUPIED BANDWIDTH	15
6.3 PEAK POWER SPECTRAL DENSITY	17
6.4 6DB BANDWIDTH	19
6.5 FREQUENCY BAND EDGES-CONDUCTED	21
6.6 CONDUCTED EMISSION	23
6.7 RADIATED EMISSION	25
6.8 AC POWERLINE CONDUCTED EMISSION	43
ANNEX A: REVISED HISTORY	46
ANNEX B: ACCREDITATION CERTIFICATE	47

1. Summary of Test Report

1.1 Test Standard(s)

No.	Test Standard	Title	Version
1	FCC Part15C	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.	--

1.2 Reference Document(s)

No.	Test Standard	Title	Version
1	ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
2	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247	--
3	KDB 484596 D01 Referencing Test Data v02r03	Test Reductions Via Data Referencing	--

Note: KDB 558074 D01 15.247 Meas Guidance v05r02 and KDB 558074 D01 15.247 Meas Guidance v05r02 are not A2LA certified.

1.3 Summary of Test Results

No.	Measurement Items	FCC Rules	Verdict
1	Maximum Peak Output Power	15.247(b)	Pass (Note 3)
2	Peak Power Spectral Density	15.247(e)	Pass (Note 4)
3	6dB Occupied Bandwidth	15.247(a)	Pass (Note 4)
4	99% Occupied Bandwidth	15.247(a)	Pass (Note 4)
5	Band Edges Compliance	15.247(d)	Pass
6	Transmitter Spurious Emission-Conducted	15.247(d)	Pass (Note 4)
7	Transmitter Spurious Emission-Radiated	15.247/15.205/15.209	Pass
8	AC Powerline Conducted Emission	15.207	Pass
9	Antenna requirement	15.203/15.247(c)	Pass (Note 2)

Note 1:

The T6831 manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing. This project is a variant project based on the original report 23T04I30131-SRD02-V01. We verified the conduction data and tested radiated spurious emission, AC Powerline Conducted Emission in the original report, and the test radiated spurious emission, AC Powerline Conducted Emission data was recorded in this report.

There are three configurations S10aa (Mainly Supply), S12aa (Secondary Supply) and S16aa (Thirdly

supply) in this project. We mainly tested the S10aa(Mainly Supply), the S12aa (Secondary Supply) and S16aa (Thirdly supply) tested the worst mode of the mainly supply, and recorded the test results of the worst mode respectively in the report.

The description of the differences between S10aa (Mainly Supply),S12aa (Secondary Supply) and S16aa (Thirdly supply) are as follows:

Type of Service	Model Name	Scanner	Rear Camera	Flash Lamp	LCD (Just different manufacturers)
Original	T6F10	Yes	5M AF+flash	Yes	SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD (9A-3R067-7026A)
Variant	T6831	NO	2M FF	NO	SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD (98-31050-7084A) S10aa (Mainly Supply)
					SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD (98-31050-7084A-H) S12aa (Secondary Supply)
					GUANGDONG SUPERVIEW OPTOELECTRONICS CO.,LTD. (G499BHA085A0) S16aa (Thirdly supply)

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 1.3.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 4 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 1 of this test report.

Note 2:

Bluetooth used a FPC antenna with max Gain 1.58 dBi that complied with 15.203 Requirements.

Note 3:

The test data refer to the original report, and the data in this report is spot check data,The verification datameets the KDB484596 reauirements within 3dB.

Note 4:

The test data refer to the original report, and the data in this report is spot check data.

Note:

a. All the test data for each data were verified, but only the worst case was reported.

1.4 Data Provided by Applicant

No.	Item(s)	Data
1	Antenna gain of EUT	2.21 dBi

Note: The data of antenna gain is provided by the Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

2. General Information of The Laboratory

2.1 Testing Laboratory

Lab Name	Industrial Internet Innovation Center (Shanghai) Co.,Ltd.
Address	Building 4, No. 766, Jingang Road, Pudong, Shanghai, China
Telephone	021-68866880
FCC Registration No.	708870
FCC Designation No.	CN1364

2.2 Laboratory Environmental Requirements

Temperature	15°C~35°C
Relative Humidity	25%RH~75%RH
Atmospheric Pressure	86kPa~106kPa

2.3 Project Information

Project Manager	Gao Hongning
Test Date	April 15, 2024 to May 31, 2024

3. General Information of The Customer

3.1 Applicant

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

3.2 Manufacturer

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

4. General Information of The Product

4.1 Product Description for Equipment under Test (EUT)

Product Name	Smart POS System
Model name	T6831
Date of Receipt	April 15, 2024
EUT ID*	S03aa/S10aa/S12aa/S16aa
SN/IMEI	S03aa: 860104070000327'860104070005326 S10aa:860104070000897'860104070005896 S12aa:860104070001424'860104070006423 S16aa:860104070002166'860104070007165
Supported Radio Technology and Bands	GSM850/GSM900/GSM1800/GSM1900 WCDMA Band I/II/IV/V/VI/VIII/XIX LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41 BT 5.0 BR/EDR/BLE WLAN 802.11b,g,n WLAN 802.11a,n,ac GPS/Galileo/GLONASS/BDS NFC
Hardware Version	V1.0
Software Version	V3.0.4
FCC ID	2AH25T6831

NOTE1: EUT ID is the internal identification code of the laboratory.

NOTE2: Samples in the test report are provided by the customer. The test results are only applicable to the samples received by the laboratory.

4.2 Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
CA01	Adapter	TPA-141A050200UU01	N/A
CDO1	Adapter	UC13US	N/A
UA02	AC Cable	N/A	N/A
BA10	Battery	HPPA	Guangdong Highpower New Energy Technology Co., Ltd.

NOTE1: AE ID is the internal identification code of the laboratory.

NOTE2: By verifying that CA01+BA10 is the worst battery and adapter combination, this battery and adapter are used in all tests.

4.3 Additional Information

BLE Frequency	2402MHz-2480MHz
BLE Channel	Ch0-39
BLE Modulation	GFSK

Test frequency list:

BLE_1M	Channel	0	19	39
	Freq. (MHz)	2402	2440	2480

Note: This report is for BLE only.

5. Test Configuration Information

5.1 Laboratory Environmental Conditions

5.1.1 Permanent Facilities

Relative Humidity	Min. = 45 %, Max. = 55 %		
Atmospheric Pressure	101kPa		
Temperature	Normal	Minimum	Maximum
	25°C	-10°C	50°C
Working Voltage of EUT	Normal	Minimum	Maximum
	7.7V	6.0V	8.8V

5.2 Test Equipments Utilized

5.2.1 Conducted Test System

No.	Name	Model	S/N	SW Version	HW Version	Manuf acturer	Cal. Date	Cal. Interva l
1	Test Software	TS1120	10727	V3.2.22	N/A	Tonsce nd	N/A	N/A
2	Automatic control unit	JS0806-2	2218060623	N/A	N/A	Tonsce nd	2024-03-25	1 Year
3	Wireless communication comprehensive tester	CMW500	164865	V3.8.12	N/A	R&S	2023-07-26	1 Year
4	Spectrum Analyzer	FSQ40	200063	V4.75	N/A	R&S	2023-10-16	1 Year
5	Analog Signal Generator	SMF	104770	V3.0.13.0-2.20.530.15.4	N/A	R&S	2023-10-16	1 year
6	Vector Signal Generator	SMCV100B	103691	V5.00.122.24	N/A	R&S	2023-07-27	1 Year
7	Programmable Power Supply	Keithley 2303	4039070	N/A	N/A	Keithle y	2023-06-23	1 Year
8	Temperature box	B-TF-107C	BTF107C-201804107	N/A	N/A	Boyi	2023-06-28	1 Year
9	Network test unit AP	GT-AXE11000	N2IG0X401637KWF	V3.0.0.4.386_45940	N/A	ASUS	N/A	N/A
10	Vector Signal Generator	SMBV100A	257904	V4.15.125.49	N/A	R&S	2023-10-16	1 Year

5.2.2 Radiated Emission Test System

No	Name	Model	S/N	SW Version	HW Version	Manufacturer	Cal. Date	Cal. Interval
1	Universal Radio Communication Tester	CMU200	123126	V5.2.1	B12	R&S	2023-10-16	1 Year
2	Universal Radio Communication Tester	CMW500	104178	V3.7.20	1206.06 00.00	R&S	2023-10-16	1 Year
3	EMI Test Receiver	ESU40	100307	V5.1-24-3	01	R&S	2023-12-19	1 Year
4	Trilog Antenna	VULB9162	00426	N/A	N/A	Schwarzbeck	2023-07-18	1 year
5	Double Ridged Guide Antenna	ETS-3117	00135885	N/A	N/A	ETS	2023-03-23	2 years
6	EMI Test Software	EMC32 V10.35.02	N/A	N/A	N/A	R&S	N/A	N/A
7	Horn Antenna	3160-09	LM6321	N/A	N/A	R&S	2023-07-16	1 Year
8	Horn Antenna	3160-10	LM5942	N/A	N/A	R&S	2023-07-16	1 Year
9	Loop Antenna	AL-130R	121083	N/A	N/A	COM-POWER	2023-9-13	1 Year
10	Preamplifier	SCU08F1	8320024	N/A	N/A	R&S	2023-10-16	1 Year
11	Preamplifier	SCU18	10155	N/A	N/A	R&S	2023-10-16	1 Year
12	Preamplifier	SCU26	10025	N/A	N/A	R&S	2023-10-16	1 Year
13	Preamplifier	SCU40	10020	N/A	N/A	R&S	2023-10-16	1 Year
14	2-Line V-Network	ENV216	101380	N/A	N/A	R&S	2023-12-19	1 Year
15	EMI Test Software	EMC32 V10.35.02	N/A	N/A	N/A	R&S	N/A	N/A
16	Test Receiver	ESCI	101235	V5.1-24-3	0	R&S	2023-12-19	1 Year
17	Antenna Tower	TPMDC-LF	N/A	N/A	N/A	Top Precision	N/A	N/A
18	Antenna Tower	TPMDC-HF	N/A	N/A	N/A	Top Precision	N/A	N/A

5.2.3 Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω
Temperature	Min. = 15 °C, Max. = 35 °C

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (9.8 meters×6.7 meters×6.7 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB, 30MHz to 1GHz

5.3 Measurement Uncertainty

Measurement Uncertainty of Conduction test

Item(s)	Frequency range	Confidence Level	Uncertainty
DTS Bandwidth	2400–2483.5MHz	95%	±1.9%
Maximum Conducted Output Power	2400–2483.5MHz	95%	± 1.18 dB
Maximum Power Spectral Density Level	2400–2483.5MHz	95%	±0.98 dB
Band-edge Compliance	2400–2483.5MHz	95%	±1.21dB
Unwanted Emissions In Non-restricted Freq Bands	9kHz-7GHz	95%	9kHz-7GHz:±1.21dB

	7GHz-40GHz	95%	7GHz-40GHz:±3.31dB
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Measurement Uncertainty of Radiation test

Measurement Items	Uncertainty(dB)
Radiated Emission 30MHz-1000MHz	±5.10
Radiated Emission 1000MHz-18000MHz	±5.66
Radiated Emission 18000MHz-40000MHz	±5.22
AC Powerline Conducted Emission	±4.38

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6. Test Results

6.1 Peak Output Power-Conducted

6.1.1 Measurement Limit

Standard	Conducted Limit(dBm)	EIRP Limit(dBm)
FCC 47 Part 15.247(b)(3)	<30	<36

6.1.2 Test Condition

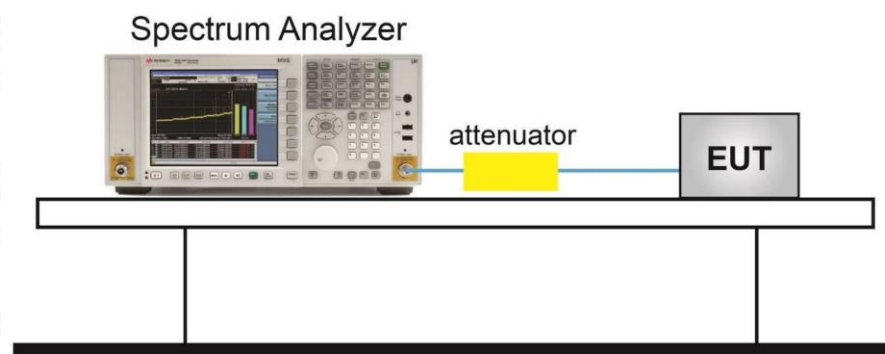
DTS procedure	RBW	VBW	Span	Sweeptime
BT-LE	3MHz	10MHz	9MHz	Auto

6.1.3 Test Procedure

The measurement is according to ANSI C63.10 clause 11.9.1

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Set span $\geq [3 \times \text{RBW}]$.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

6.1.4 Test setup



6.1.5 Measurement Results

Test Mode	Antenna	Frequency [MHz]	Original Power[dBm]	Validation Power[dBm]	d _{dB} ^{Note3}	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-2.5	-2.39	-0.11	≤30	PASS
BLE_1M	Ant1	2440	-1.94	-1.75	-0.19	≤30	PASS
BLE_1M	Ant1	2480	-2.74	-2.63	-0.11	≤30	PASS

Note1: Only data in worst mode is provided.

Note2: The verified power is still in the tune-up power range and meets the requirements of KDB484596 D01 data reference. The power listed in the original certificate still applies to this case.

Note3: $d_{dB} = |\text{Verified}_{dB} - \text{original}_{dB}|$

Test Graphs Peak



6.2 99% Occupied Bandwidth

6.2.1 Measurement Limit

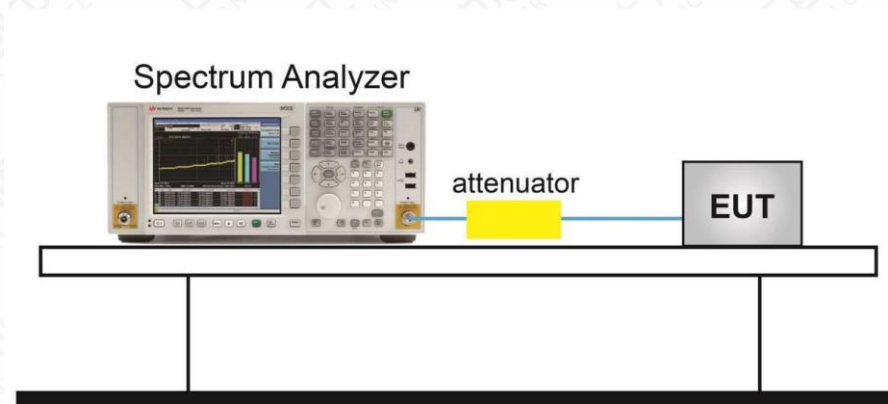
Standard	Limit
15.247(a)	N/A

6.2.2 Test procedures

The measurement is according to ANSI C63.10 clause 6.9.3.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW shall be in the range of 1% to 5% of the OBW.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

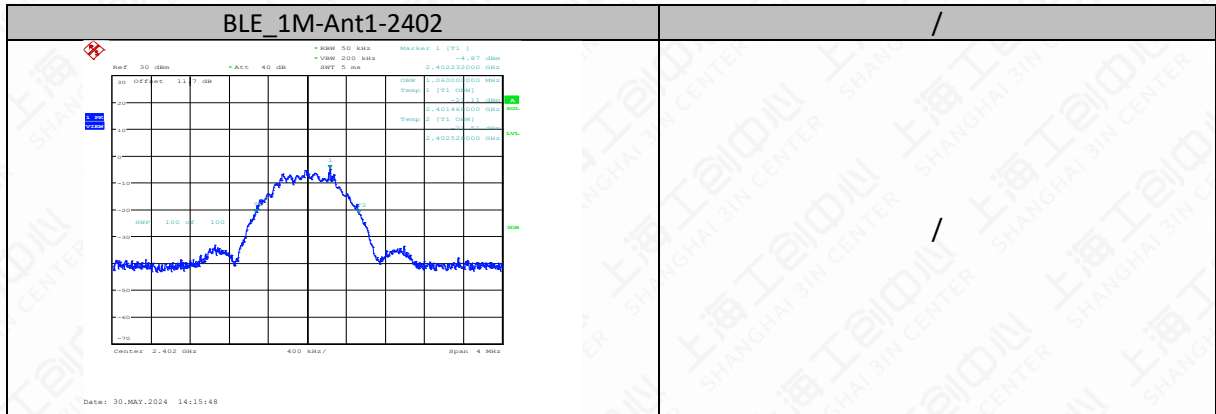
6.2.3 Test setup



6.2.4 Measurement Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.06	2401.4680	2402.5280	---	---

Test graphs



6.3 Peak Power Spectral Density

6.3.1 Measurement Limit

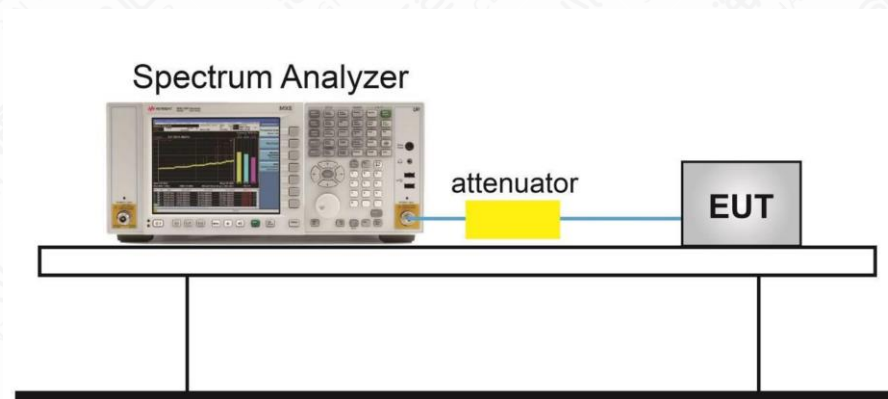
Standard	Limit
FCC 47 Part 15.247(e)	$\leq 8\text{dBm}/3\text{ kHz}$

6.3.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.10.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

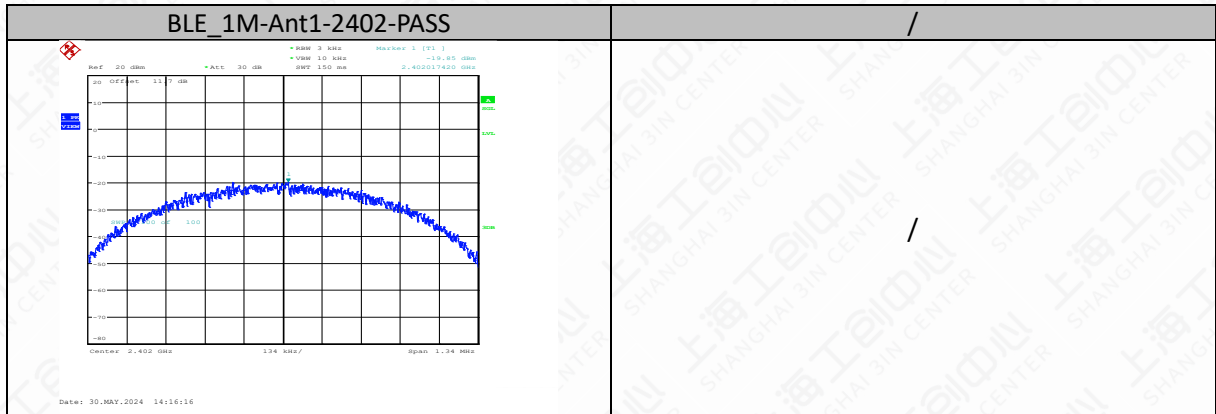
6.3.3 Test Setup



6.3.4 Measurement Results

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.85	≤ 8.00	PASS

Test Graphs



6.4 6dB Bandwidth

6.4.1 Measurement Limit

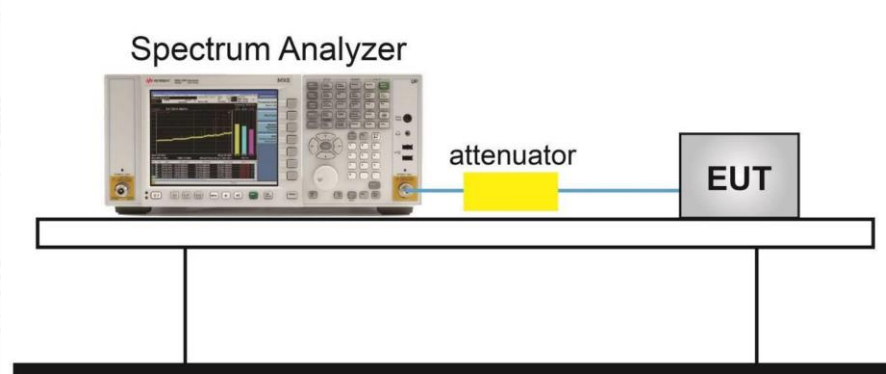
Standard	Limit
FCC 47 Part 15.247 (a) (2)	$\geq 500\text{kHz}$

6.4.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.8.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

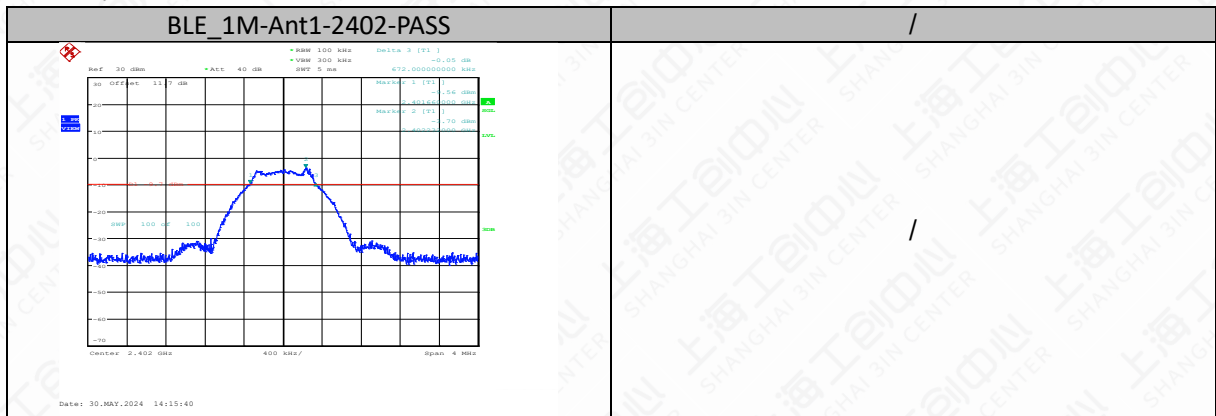
6.4.3 Test Setup



6.4.4 Measurement Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.66	2402.33	0.5	PASS

Test Graphs



6.5 Frequency Band Edges-Conducted

6.5.1 Measurement Limit

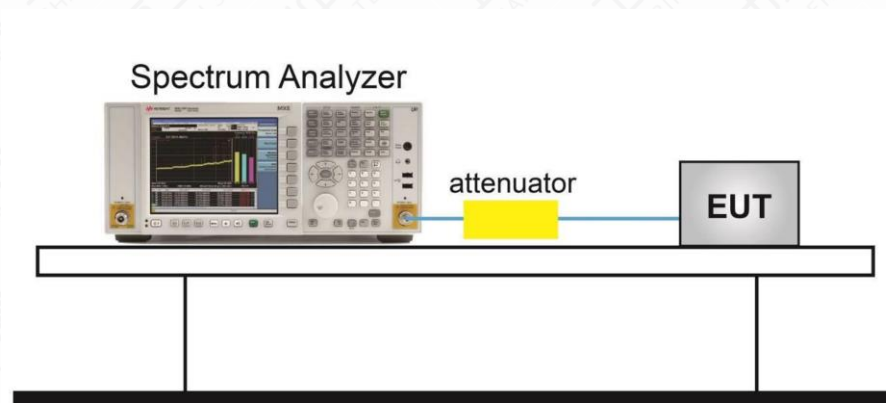
Standard	Limit(dBc)
FCC 47 Part 15.247(d)	>20

6.5.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.13.2

- 1) 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.
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: Coupled.
- 5) Resolution bandwidth: 100 kHz.6) Video bandwidth: 300 kHz.7) Detector: Peak.8) Trace: Max hold.

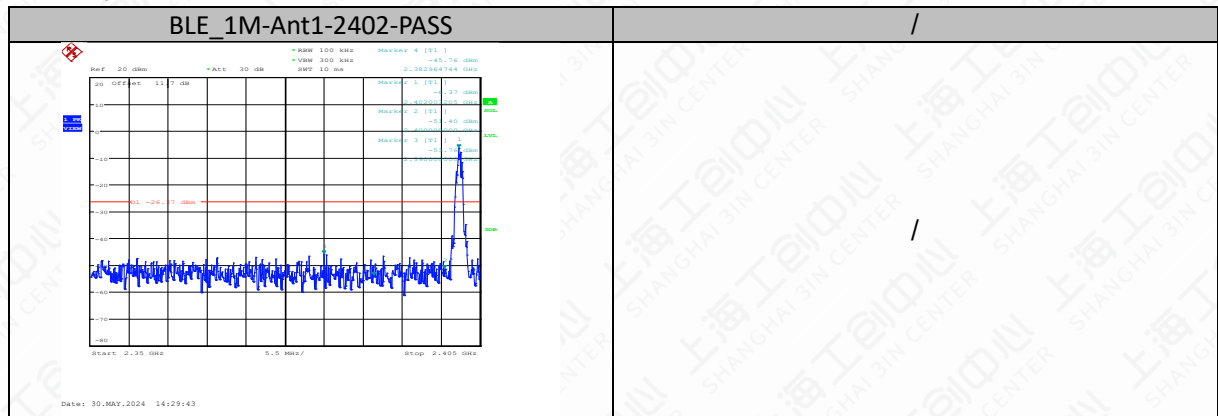
6.5.3 Test Setup



6.5.4 Measurement Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.37	-45.76	≤-26.37	PASS

Test Graphs



6.6 Conducted Emission

6.6.1 Measurement Limit

Standard	Limit(dBc)
FCC 47 Part 15.247(d)	20dB below peak output power in 100KHz bandwidth

6.6.2 Test procedures

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.

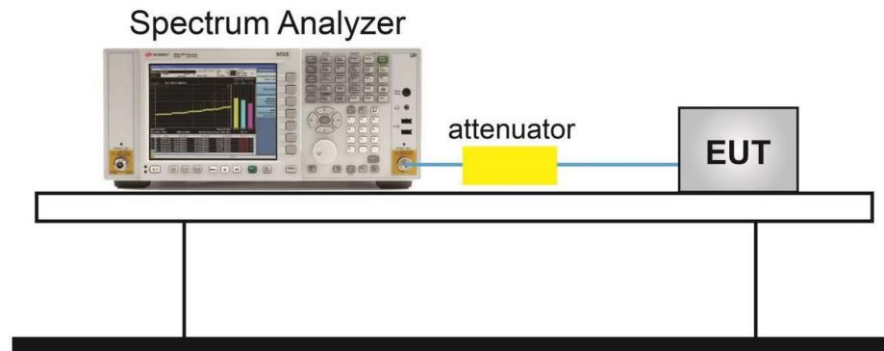
Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ≥ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW $\geq [3 \times \text{RBW}]$.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

6.6.3 Test Setup



6.6.4 Measurement Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.29	-3.29	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.29	-53.95	≤-23.29	PASS
BLE_1M	Ant1	2402	1000~26500	-3.29	-51.89	≤-23.29	PASS

Test Graphs



6.7 Radiated Emission

6.7.1 Measurement Limit

Standard	Limit(dBc)
FCC 47 Part 15.247(d),15.205(a),15.209(a)	20dB below peak output power in 100KHz bandwidth

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Limit in restricted band

Frequency of emission (MHz)	Field strength (mV/m)	Field strength (dBuV/m)
0.009~0.49	2400/F (kHz)	129-94
0.49~1.705	24000/F (kHz)	74-63
1.705~30	30	70
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

6.7.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Test Settings – Below 1GHz (Quasi-Peak Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW = 300 kHz.
4. Detector = quasi-peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Trace was allowed to stabilize.

Test Settings – Above 1GHz (Peak Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.

2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = peak
5. Trace mode = max hold
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

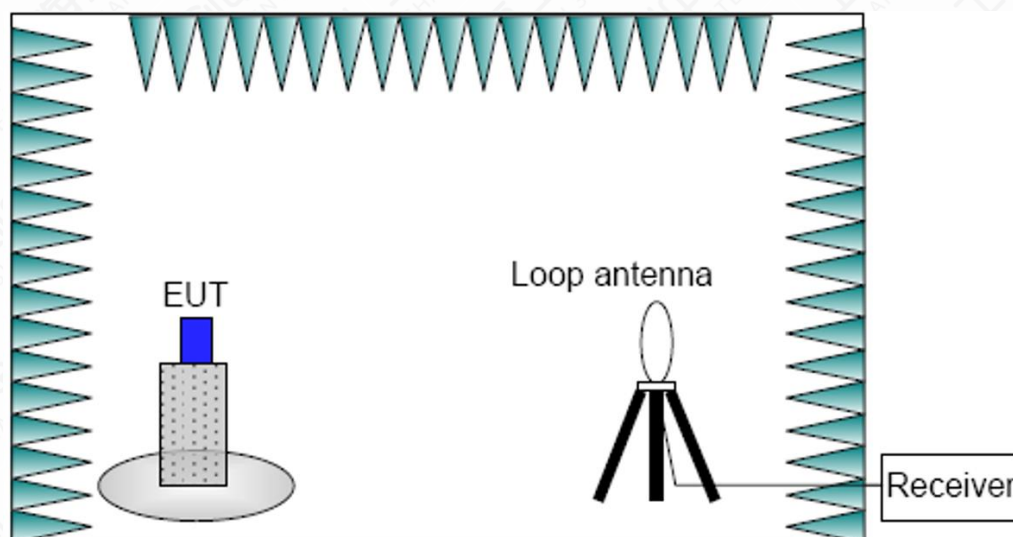
Test Settings – Above 1GHz (Average Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = power average (RMS).
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span} \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

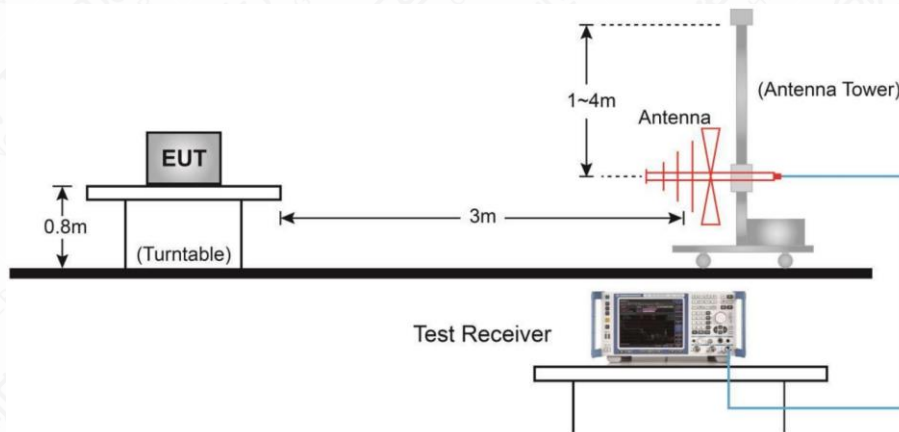
Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
0.009~30	9KHz/30KHz	Auto
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

6.7.3 Test Setup

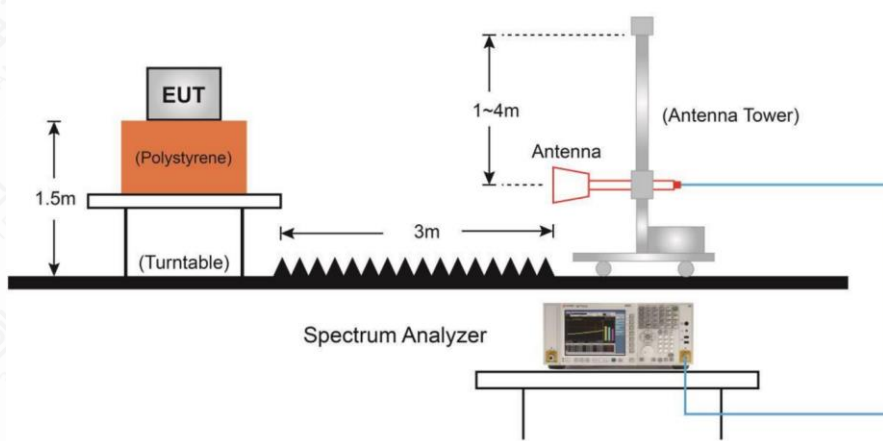
Below 30MHz Test Setup



Below 1GHz Test Setup



Above 1GHz Test Setup



6.7.4 Measurement Results

A “reference path loss” is established and AR_{pi} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

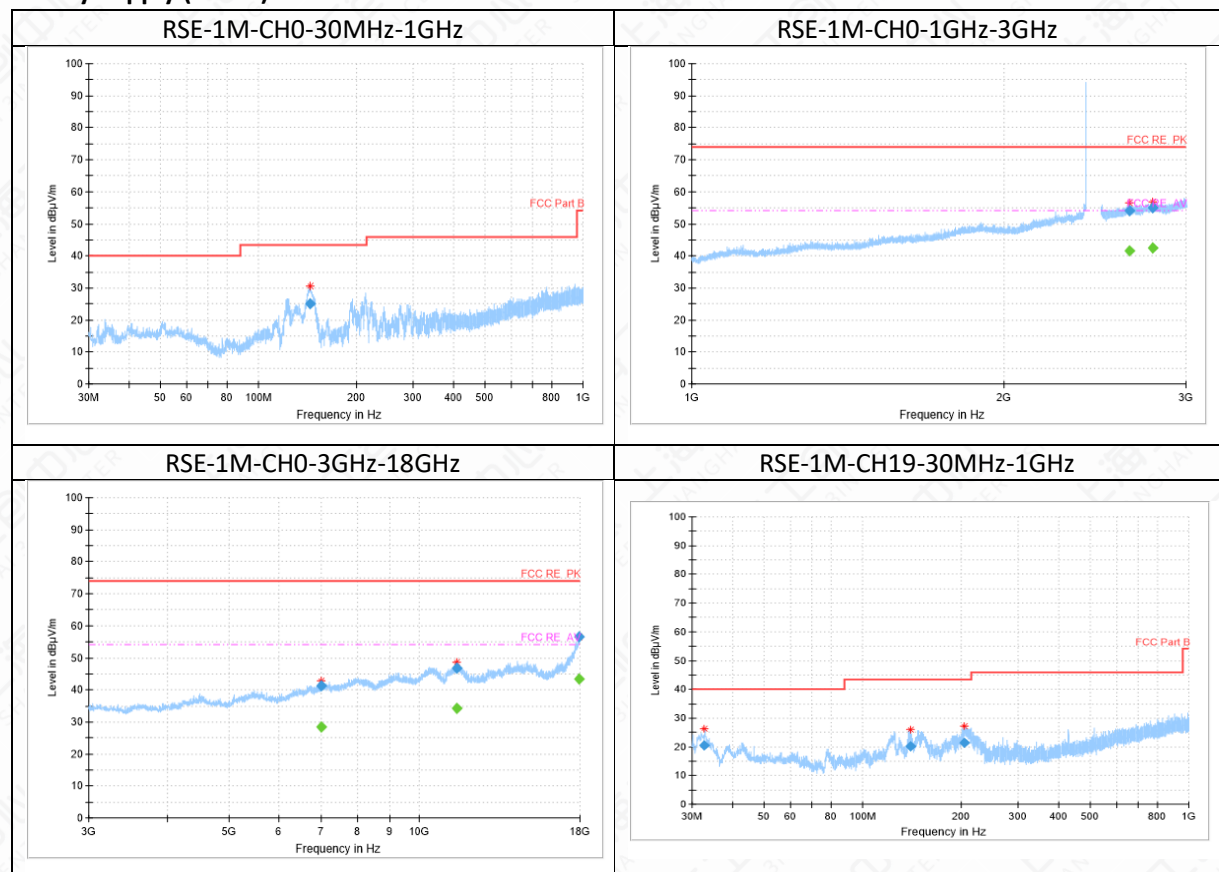
$AR_{pi} = \text{Cable loss} + \text{Antenna Factor} - \text{Preamplifier gain}$

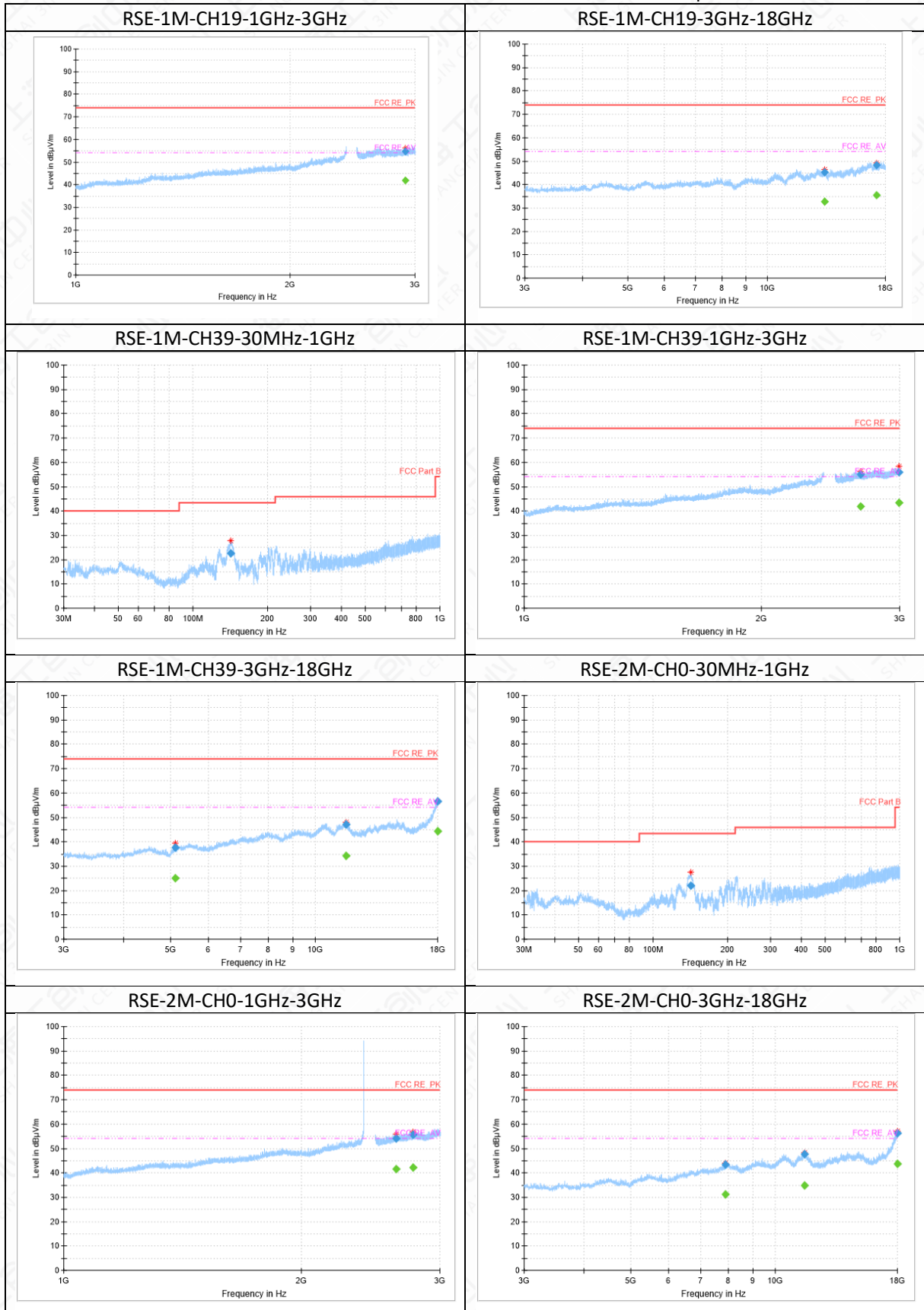
$\text{Result} = P_{\text{Mea}} + AR_{pi}$

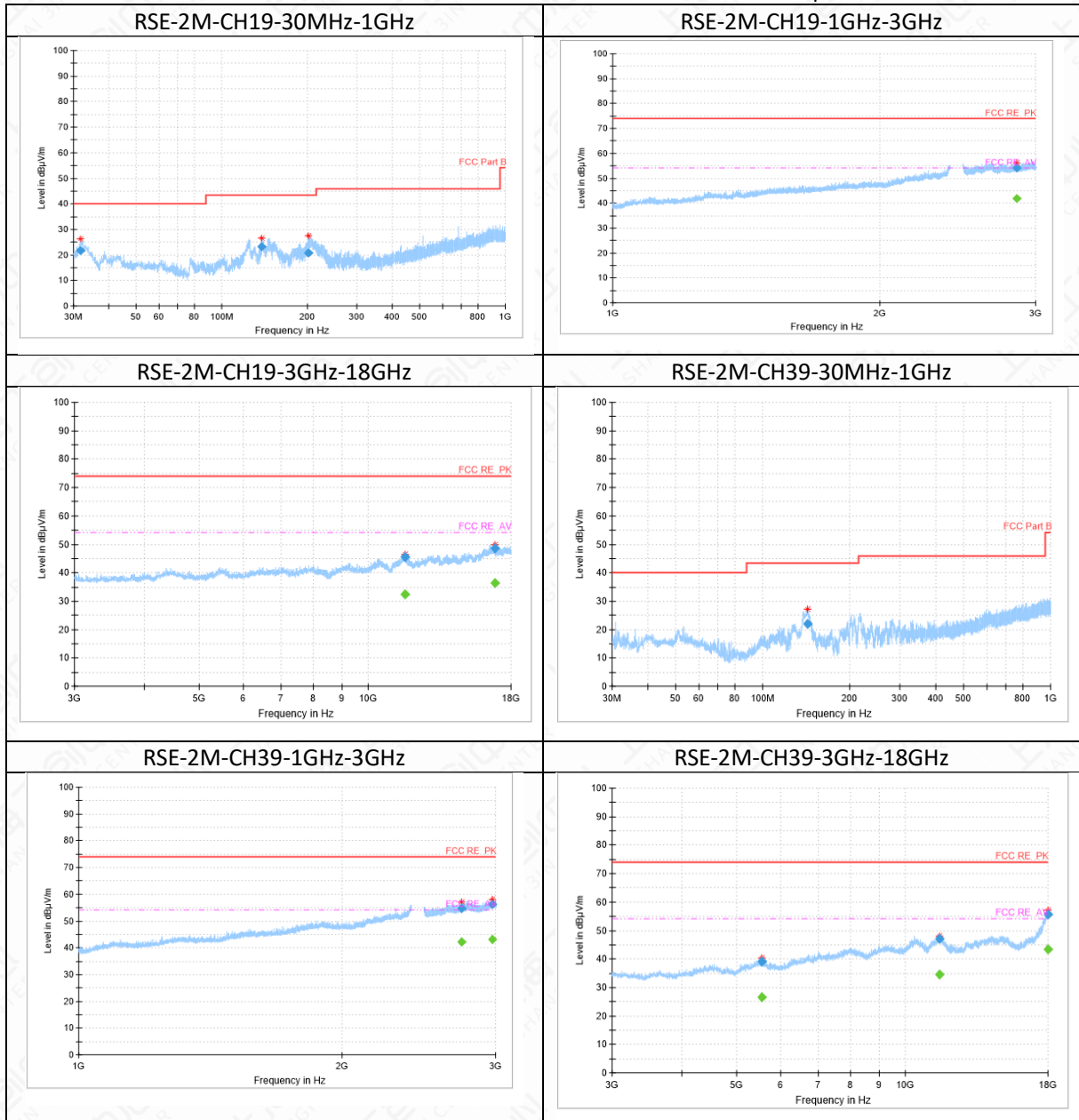
Note:

1. The out-of- limit signal in the picture is the main frequency signal.
2. Only data in worst mode is provided.
3. Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-26.5GHz is more than 20dB below the limit are not report.
4. The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.
5. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

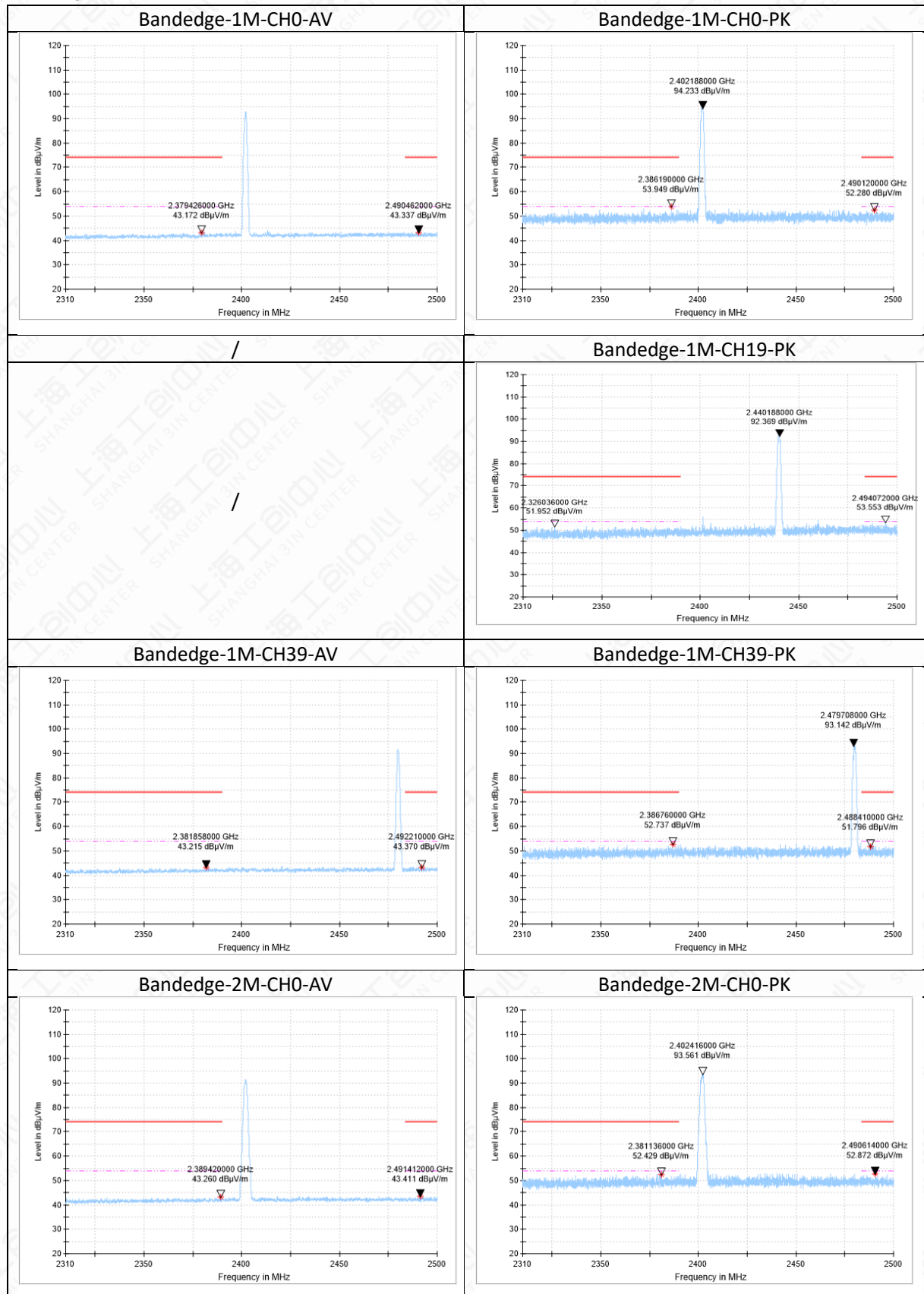
Mainly Supply (S10aa)

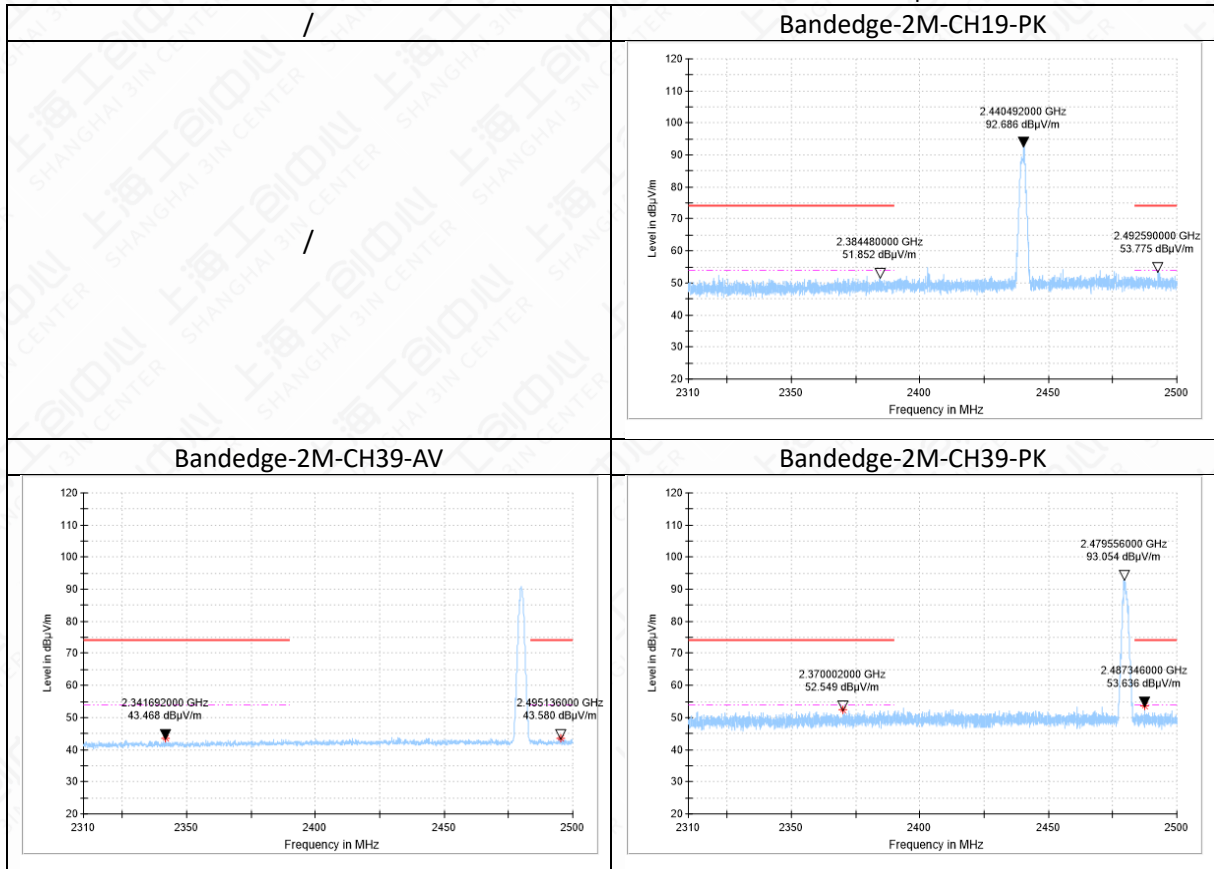




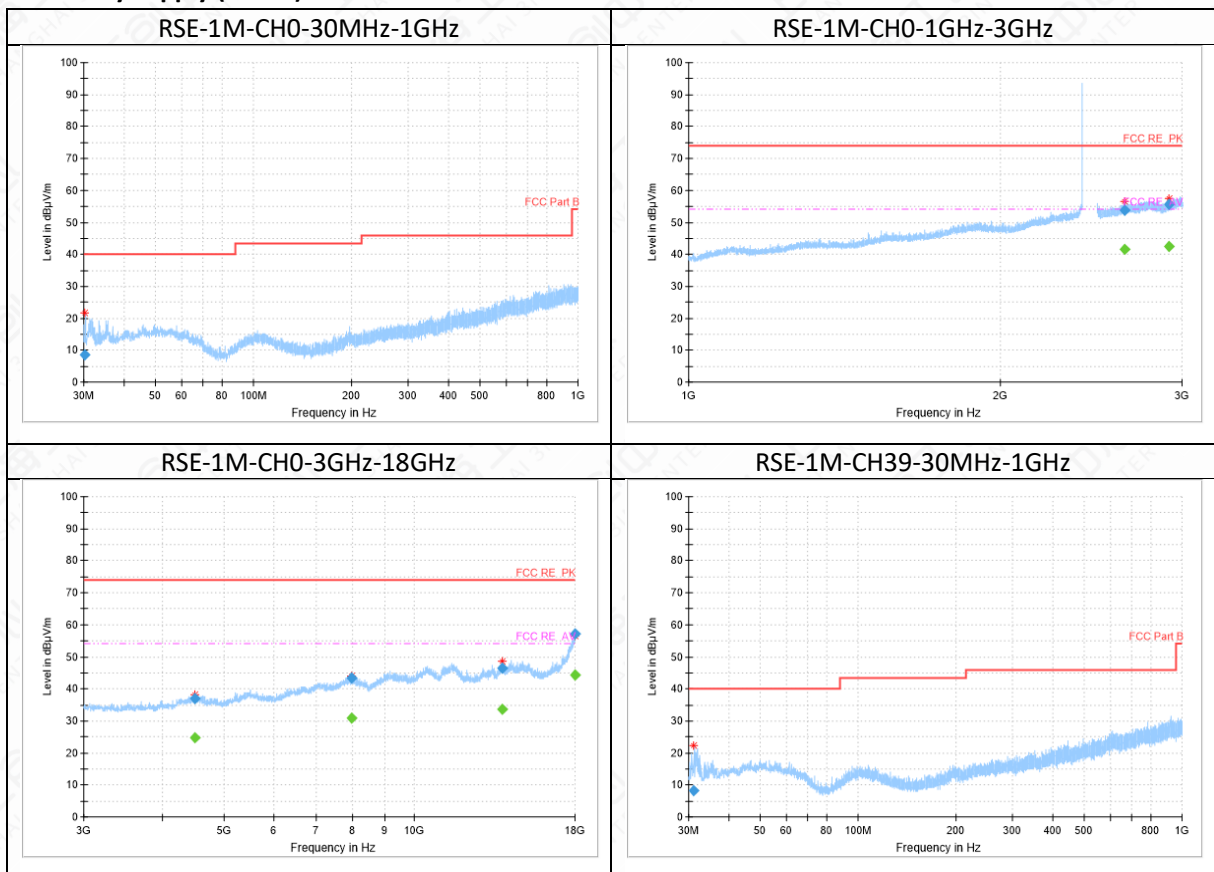


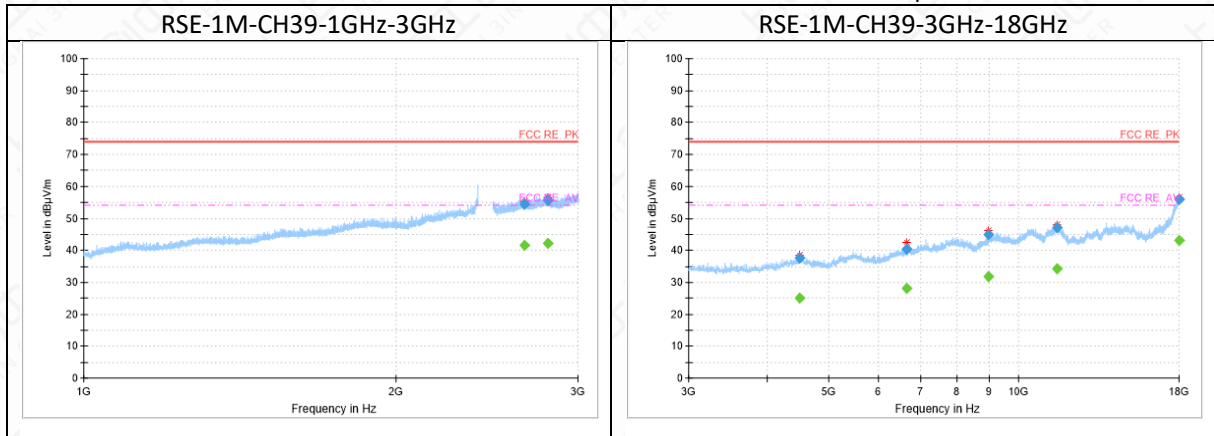
Bandedge



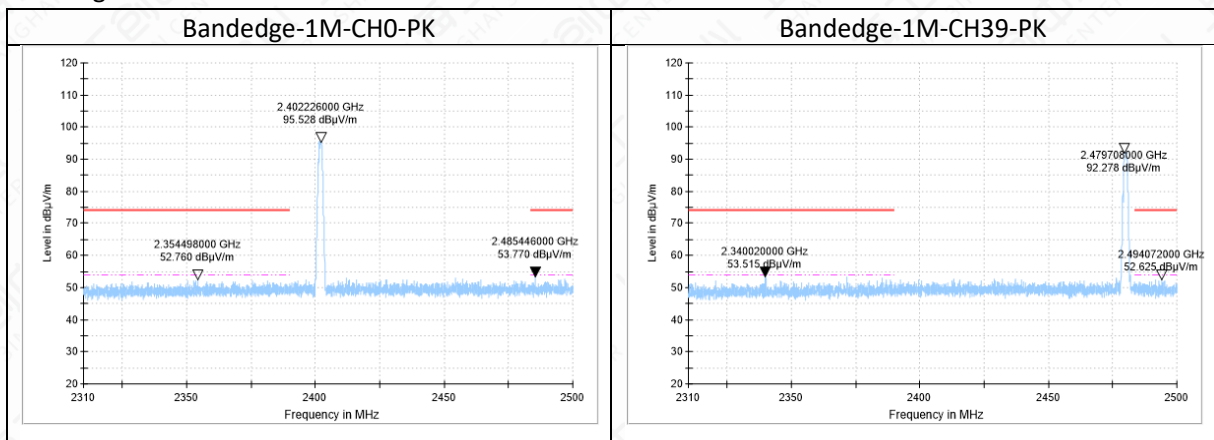


Secondary supply (S12aa)

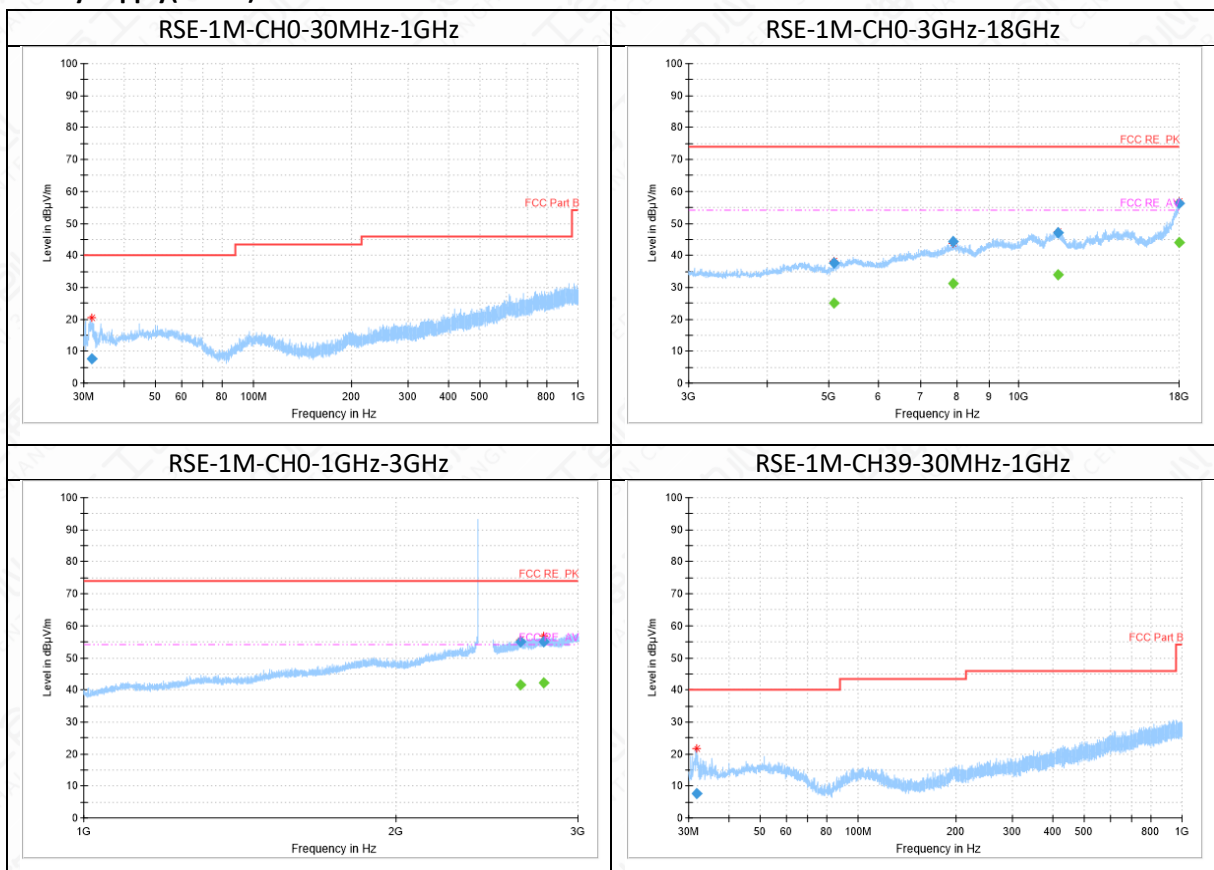


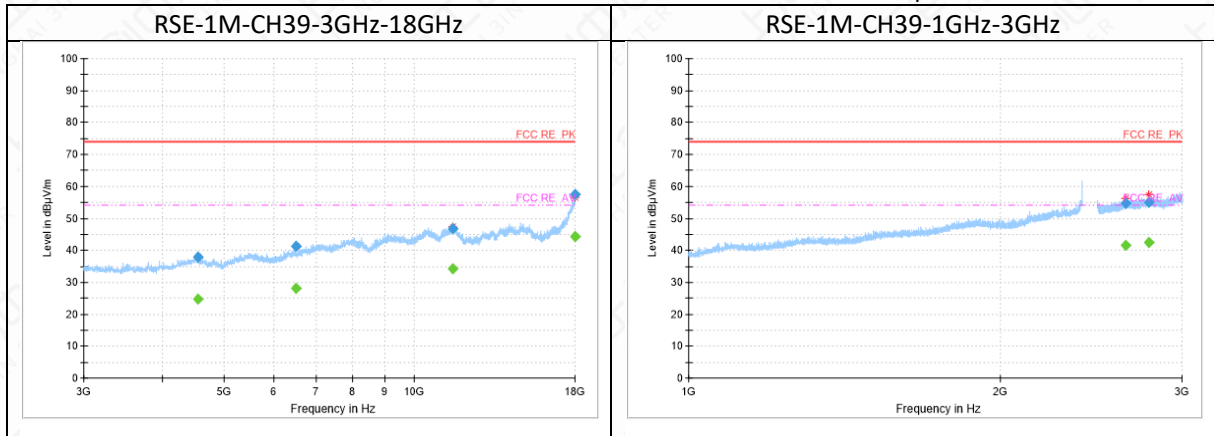


Bandedge

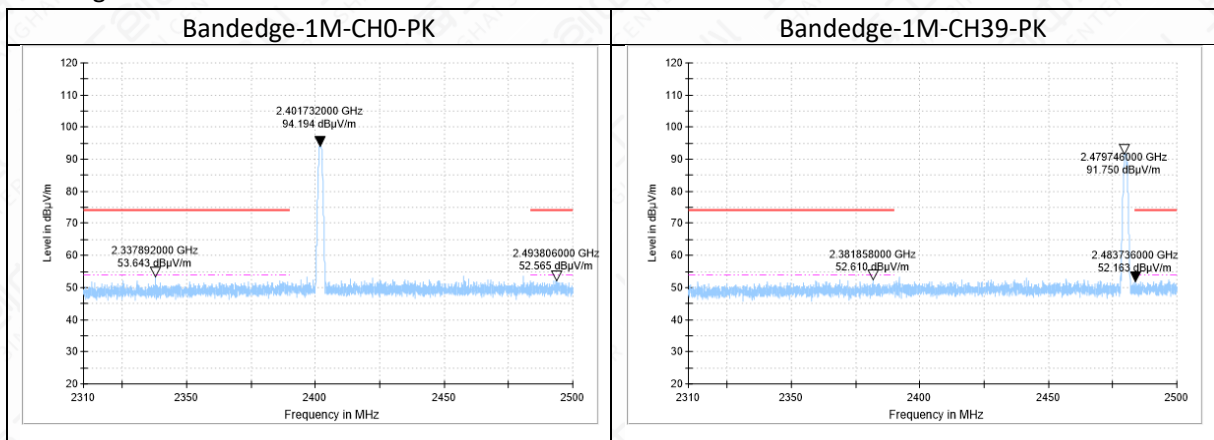


Thirdly supply(S16aa)





Bandedge



Mainly Supply(S10aa)
RSE-1M-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
143.9	25.04	-17	42.04	18.46	43.50	H

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2645.7	54	17	37	20.00	74.00	H
2786.5	55.08	18	37.08	18.92	74.00	V

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2645.7	41.68	17	24.68	12.32	54.00	H
2786.5	42.59	18	24.59	11.41	54.00	V

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
7007.9	41.32	-2	43.32	32.68	74.00	H
11470.4	46.78	5	41.78	27.22	74.00	V
17942.8	56.54	18	38.54	17.46	74.00	V

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
7007.9	28.51	-2	30.51	25.49	54.00	H
11470.4	34.34	5	29.34	19.66	54.00	V
17942.8	43.5	18	25.5	10.50	54.00	V

RSE-1M-CH19-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
32.8	20.35	-15	35.35	19.65	40.00	H
140.6	20.19	-17	37.19	23.31	43.50	H
204.7	21.33	-13	34.33	22.17	43.50	H

RSE-1M-CH19-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2904.8	54.62	18	36.62	19.38	74.00	V

RSE-1M-CH19-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2904.8	42.04	18	24.04	11.96	54.00	V

RSE-1M-CH19-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
13285.2	45.21	4	41.21	28.79	74.00	H
17240.6	48.32	10	38.32	25.68	74.00	V

RSE-1M-CH19-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
13285.2	32.69	4	28.69	21.31	54.00	H
17240.6	35.58	10	25.58	18.42	54.00	V

RSE-1M-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
142.4	22.62	-17	39.62	20.88	43.50	H

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2674.7	55.07	17	38.07	18.93	74.00	H
2994.2	56.03	19	37.03	17.97	74.00	H

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2674.7	41.82	17	24.82	12.18	54.00	H
2994.2	43.54	19	24.54	10.46	54.00	H

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5112.2	37.62	-4	41.62	36.38	74.00	H
11588.4	47.19	5	42.19	26.81	74.00	H
17970.5	56.51	19	37.51	17.49	74.00	V

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5112.2	25.07	-4	29.07	28.93	54.00	H
11588.4	34.13	5	29.13	19.87	54.00	H

17970.5	44.23	19	25.23	9.77	54.00	V
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RSE-2M-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
142.2	22.15	-17	39.15	21.35	43.50	H

RSE-2M-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2638.4	54.16	17	37.16	19.84	74.00	V
2775.3	55.76	18	37.76	18.24	74.00	V

RSE-2M-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2638.4	41.73	17	24.73	12.27	54.00	V
2775.3	42.32	18	24.32	11.68	54.00	V

RSE-2M-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
7879.6	43.28	0	43.28	30.72	74.00	H
11526.1	47.82	5	42.82	26.18	74.00	V
17993.0	56.3	20	36.3	17.70	74.00	V

RSE-2M-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
7879.6	31.1	0	31.1	22.90	54.00	H
11526.1	34.84	5	29.84	19.16	54.00	V
17993.0	43.6	20	23.6	10.40	54.00	V

RSE-2M-CH19-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.9	21.66	-15	36.66	18.34	40.00	H
138.6	23.17	-16	39.17	20.33	43.50	H
202.1	20.8	-13	33.8	22.70	43.50	H

RSE-2M-CH19-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2856.5	54.26	18	36.26	19.74	74.00	V

RSE-2M-CH19-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2856.5	41.77	18	23.77	12.23	54.00	V

RSE-2M-CH19-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11630.1	45.48	3	42.48	28.52	74.00	V
16821.1	48.61	11	37.61	25.39	74.00	H

RSE-2M-CH19-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11630.1	32.34	3	29.34	21.66	54.00	V
16821.1	36.33	11	25.33	17.67	54.00	H

RSE-2M-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
143.4	21.97	-17	38.97	21.53	43.50	H

RSE-2M-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2742.3	54.84	18	36.84	19.16	74.00	H
2974.2	56.29	19	37.29	17.71	74.00	V

RSE-2M-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2742.3	42.32	18	24.32	11.68	54.00	H
2974.2	43.27	19	24.27	10.73	54.00	V

RSE-2M-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5553.8	39.09	-6	45.09	34.91	74.00	H
11527.5	46.99	5	41.99	27.01	74.00	H
17985.5	55.78	19	36.78	18.22	74.00	V

RSE-2M-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5553.8	26.75	-6	32.75	27.25	54.00	H
11527.5	34.61	5	29.61	19.39	54.00	H

17985.5	43.37	19	24.37	10.63	54.00	V
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Secondary supply (S12aa)

RSE-1M-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
30.2	8.6	-15	23.6	31.40	40.00	H

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2642.0	53.89	17	36.89	20.11	74.00	H
2910.8	55.58	18	37.58	18.42	74.00	V

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2642.0	41.66	17	24.66	12.34	54.00	H
2910.8	42.44	18	24.44	11.56	54.00	V

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4496.8	37.14	-8	45.14	36.86	74.00	H
7969.2	43.4	0	43.4	30.60	74.00	H
13787.9	46.34	5	41.34	27.66	74.00	H
17971.4	57.23	19	38.23	16.77	74.00	H

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4496.8	24.92	-8	32.92	29.08	54.00	H
7969.2	30.87	0	30.87	23.13	54.00	H
13787.9	33.78	5	28.78	20.22	54.00	H
17971.4	44.33	19	25.33	9.67	54.00	H

RSE-1M-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.1	8.11	-16	24.11	31.89	40.00	H

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2665.9	54.37	17	37.37	19.63	74.00	H
2807.3	55.7	18	37.7	18.30	74.00	V

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2665.9	41.56	17	24.56	12.44	54.00	H
2807.3	42.29	18	24.29	11.71	54.00	V

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4506.6	37.51	-8	45.51	36.49	74.00	H
6663.8	40.4	-3	43.4	33.60	74.00	H
8976.5	44.88	1	43.88	29.12	74.00	H
11501.2	47.02	5	42.02	26.98	74.00	H
17987.4	55.84	19	36.84	18.16	74.00	H

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4506.6	24.94	-8	32.94	29.06	54.00	H
6663.8	28.15	-3	31.15	25.85	54.00	H
8976.5	31.81	1	30.81	22.19	54.00	H
11501.2	34.24	5	29.24	19.76	54.00	H
17987.4	43.2	19	24.2	10.80	54.00	H

Thirdly supply(S16aa)
RSE-1M-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.7	7.64	-16	23.64	32.36	40.00	H

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2638.8	55.13	17	38.13	18.87	74.00	H
2777.7	55.17	18	37.17	18.83	74.00	V

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2638.8	41.68	17	24.68	12.32	54.00	H
2777.7	42.34	18	24.34	11.66	54.00	V

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5096.2	37.74	-3	40.74	36.26	74.00	V
7893.2	44.44	0	44.44	29.56	74.00	V
11547.2	47.14	5	42.14	26.87	74.00	V
17999.5	56.4	20	36.4	17.60	74.00	V

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5096.2	24.97	-3	27.97	29.03	54.00	V
7893.2	31.06	0	31.06	22.94	54.00	V
11547.2	33.97	5	28.97	20.03	54.00	V
17999.5	44.13	20	24.13	9.87	54.00	V

RSE-1M-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.7	7.61	-16	23.61	32.39	40.00	H

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2648.1	54.79	17	37.79	19.21	74.00	V
2785.8	55.12	18	37.12	18.88	74.00	V

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2648.1	41.67	17	24.67	12.33	54.00	V
2785.8	42.54	18	24.54	11.46	54.00	V

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4543.1	37.88	-8	45.88	36.12	74.00	V

6495.5	41.4	-4	45.4	32.60	74.00	V
11521.0	46.83	5	41.83	27.17	74.00	V
17999.1	57.61	20	37.61	16.39	74.00	H

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4543.1	24.7	-8	32.7	29.30	54.00	V
6495.5	28.15	-4	32.15	25.85	54.00	V
11521.0	34.18	5	29.18	19.82	54.00	V
17999.1	44.44	20	24.44	9.56	54.00	H

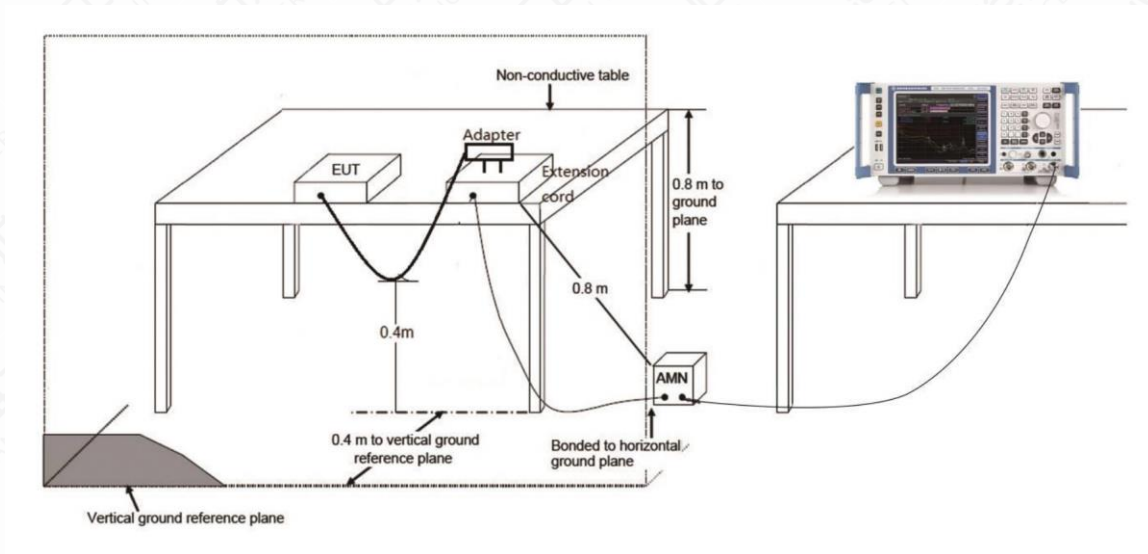
6.8 AC Powerline Conducted Emission

6.8.1 Method of Measurement: ANSI C63.10-2013-clause 6.2

1. The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
2. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
3. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
4. If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.³⁶ Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

6.8.2 Test Setup



6.8.3 Test Condition

Voltage (V)	Frequency (Hz)
120	60

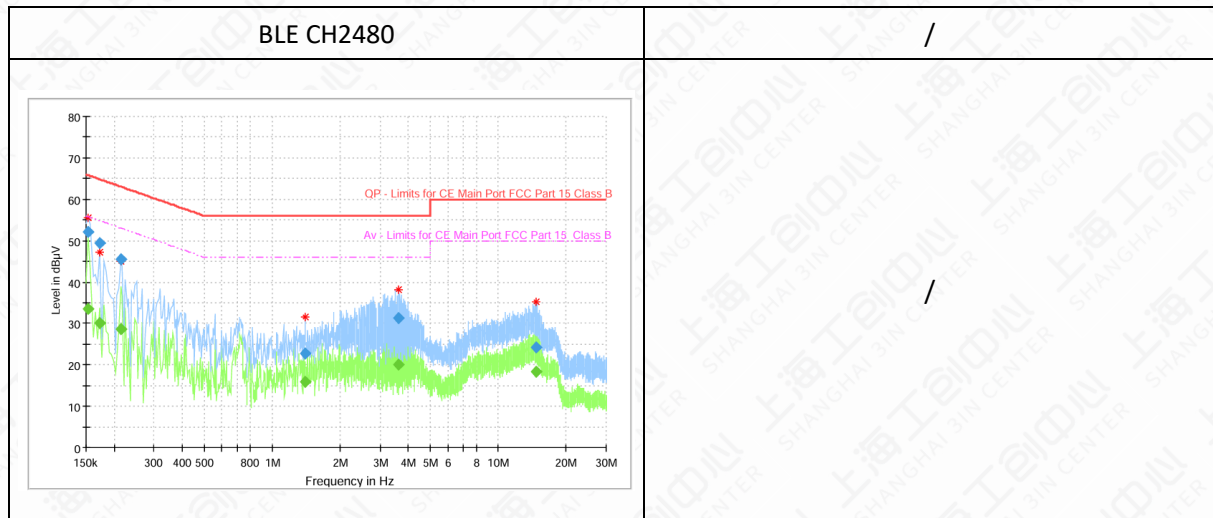
6.8.4 Measurement limit

(Quasi-peak-average Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Conclusion
0.15 to 0.5	66 to 56	56 to 46	P
0.5 to 5	56	46	
5 to 30	60	50	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

6.8.5 Measurement Result



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas.Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.153731	---	33.58	55.80	22.22	15000.0	9.000	L1	ON	9.6
0.153731	51.99	---	65.80	13.81	15000.0	9.000	L1	ON	9.6
0.172388	---	30.07	54.85	24.77	15000.0	9.000	L1	ON	9.6
0.172388	49.47	---	64.85	15.38	15000.0	9.000	L1	ON	9.6
0.213431	---	28.51	53.07	24.56	15000.0	9.000	L1	ON	9.6
0.213431	45.50	---	63.07	17.57	15000.0	9.000	L1	ON	9.6
1.399969	22.78	---	56.00	33.22	15000.0	9.000	N	ON	9.6
1.399969	---	15.89	46.00	30.11	15000.0	9.000	N	ON	9.6
3.620063	31.30	---	56.00	24.70	15000.0	9.000	N	ON	9.6
3.620063	---	20.01	46.00	25.99	15000.0	9.000	N	ON	9.6
14.776500	---	18.29	50.00	31.71	15000.0	9.000	L1	ON	9.9
14.776500	24.15	---	60.00	35.85	15000.0	9.000	L1	ON	9.9

Note: All modes have been tested and only the worst mode is recorded in the report.

Annex A: Revised History

Version	Revised Content
V0	Initial

Annex B: Accreditation Certificate



END OF REPORT