MEASUREMENT REPORT

FCC PART 15.247 Bluetooth

Report No.: S2025072289100101
Issue Date: 08-27-2025

Applicant:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address:	6F, No.40,Guanri Road, Software Park Stage II, Xiamen, China
FCC ID:	WY2Q000
Product:	IVI Assy
Model No.:	Q000
FCC Classification:	FCC Part 15 Spread Spectrum Transmitter (DSS)
FCC Rule Part(s):	Part 15 Subpart C (15.247)
Test Procedure(s):	ANSI C63.10-2013, KDB 558074 D01v05r02
Result:	Pass
Item Receipt Date:	Jul. 19, 2025
Test Date:	Jul. 21, 2025~ Aug. 19, 2025

Compiled By: Stone Zhang. (Stone Zhang) Senior Test Engineer

Approved By: Line Chen (Line Chen) Engineer Manager

FANGGUANG INSPECT & TESTING CO.,LTD. APPROVED(02)

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s)
The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch
The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S2025072289100101	Rev. 01	/	08-27-2025

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Description Page

§2.1033 General Information

Applicant:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Applicant Address:	6F, No.40,Guanri Road, Software Park Stage II, Xiamen, China
Manufacturer:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Manufacturer Address:	6F, No.40,Guanri Road, Software Park Stage II, Xiamen, China
Factory:	Faurecia Clarion Electronics (Fengcheng) Co., Ltd.
Factory Address:	No.12 High-Tech Road,Fengcheng High Technology Industry Park,Yichun City,Jiangxi
Test Site:	Fangguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
LAB registration number:	600222-0
Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart C (15.247)
FCC ID:	WY2Q000
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	FCC Part 15 Spread Spectrum Transmitter (DSS)

1. Introduction

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.10-2013.

2. Product Information

2.1. Equipment Description

Product Name:	IVI Assy
Model Name:	Q000
Trade Mark:	clarion
Input Voltage Range:	DC 9V~16V, typical voltage: DC 13.2V
Bluetooth Version:	4.2
Software Version:	C.0.9.JB
Hardware Version:	A
EUT sample number:	S20250722891001-1-1 (Conducted) S20250722891001-1-2 (Radiated)

Note:

1. This information is provided by the Customer and its authenticity is the responsibility of the Customer.

2. The two configurations are consistent in terms of schematic, circuit design, circuit layout, hardware version, and software version, except for the addition of a DAB circuit board in the maximum configuration.

The differences are not affecting the RF performance.

For specific differences please refer to the following table.

Function	Product name: IVI Assy	
	Model:Q000	
	Minimum Configuration	Maximum Configuration
BT (4.2)	√	√
WIFI 2.4G	√	√
WIFI 5G (B4)	√	√
FM/AM	√	√
DAB	X	√
HSD socket	√	√
Memory(RAM)	√	√

3. The maximum configuration of the model was tested and recorded in this report.

2.2. Product Specification Subjective to this Standard

Operating Frequency:	2402~2480MHz
Channel Number:	79
Channel Spacing	1 MHz
Type of modulation:	GFSK, Π/4 DQPSK, 8DPSK
Data Rate:	1Mbps (GFSK), 2Mbps (Π/4 DQPSK), 3Mbps (8DPSK)
Antenna Type:	PCB Antenna

Antenna Gain:	3.98dBi

Note:The maximum Antenna Gain was declared by the manufacturer.

The equipment under test (EUT) is the **IVI Assy.** The test data contained in this report pertains only to the emissions due to the EUT's Bluetooth transmitter.

- 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.

- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

- 15.247(h): The EUT employs Adaptive Frequency Hopping (AFH) which identifies sources of interference namely devices operating in 802.11 WLAN and excludes them from the list of available channels. The process of re-mapping reduces the number of test channels from 79 channels to a minimum number of 20 channels.

2.3. Operation Frequency / Channel List

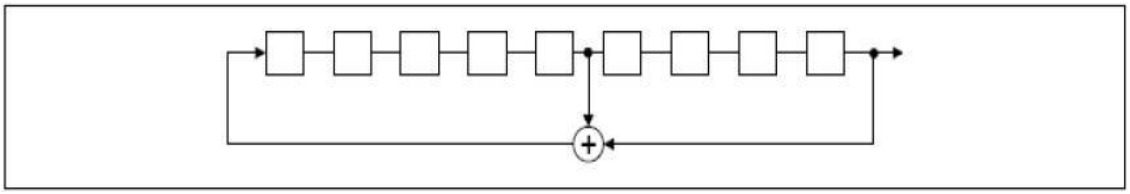
Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz
03	2405 MHz	04	2406 MHz	05	2407 MHz
06	2408 MHz	07	2409 MHz	08	2410 MHz
09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz
15	2417 MHz	16	2418 MHz	17	2419 MHz
18	2420 MHz	19	2421 MHz	20	2422 MHz
21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz
27	2429 MHz	28	2430 MHz	29	2431 MHz
30	2432 MHz	31	2433 MHz	32	2434 MHz
33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz
39	2441 MHz	40	2442 MHz	41	2443 MHz
42	2444 MHz	43	2445 MHz	44	2446 MHz
45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz
51	2453 MHz	52	2454 MHz	53	2455 MHz
54	2456 MHz	55	2457 MHz	56	2458 MHz
57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz
63	2465 MHz	64	2466 MHz	65	2467 MHz
66	2468 MHz	67	2469 MHz	68	2470 MHz
69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz
75	2477 MHz	76	2478 MHz	77	2479 MHz
78	2480 MHz	-	-	-	-

EUT was tested with Channel 0, 39 and 78.

2.4. Pseudorandom Frequency Hopping Sequence

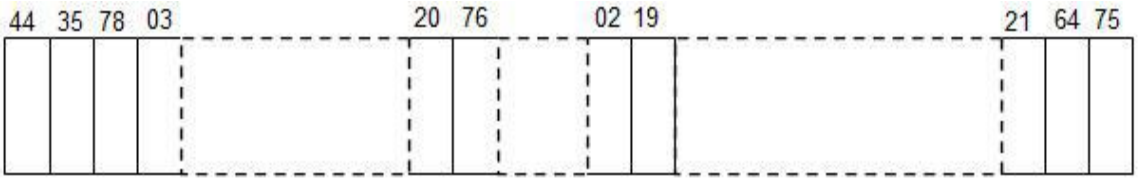
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2^9 - 1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

2.5. Device Capabilities

This device contains the following capabilities: Bluetooth (4.2)

Note: The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Antenna	Frequency (MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor
DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	3.09	5.00	61.80	2.09
		2441	2.88	3.74	77.01	1.13
		2480	2.89	3.76	76.86	1.14

3DH5	Ant1	2402	2.88	3.74	77.01	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

2DH5_Ant1_2402

2DH5_Ant1_2441

2DH5_Ant1_2480


3DH5_Ant1_2402

3DH5_Ant1_2441


3DH5_Ant1_2480


2.6. Description of Test Software

The test utility software used during testing was “Engineering Mode”, and the test software power level setting is Default.

2.7. Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S20250722891001-A1/A2/A3.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or

pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

2.11. Calculation with all conversion and correction factors used

For AC Line Conducted Emissions Test:

Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

For Radiated Emissions Below 1GHz Test:

Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

For Radiated Emissions Above 1GHz Test:

Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

3. Description of Test

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the “Filing were used in the measurement of the EUT.

Deviation from measurement procedure…….....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. The turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beamwidth of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- Use a unique coupling to the intentional radiator**.**

5. Test Equipment Calibration Date

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2026/07/08
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2026/07/09
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-387	1 year	2025/09/03

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	1 year	2026/06/21
Bi-Log Antenna	R&S	VULB 9168	FGZZ-2024-036	1 year	2026/06/21
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2026/06/21
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	FWXGJC-2018-016	1 year	2026/06/21
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2026/07/16
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2026/07/16
Pre-Amplifier	Tonscend	TAP0118048	FWXGJC-2024-037	1 year	2026/06/21
Pre-Amplifier	Chengyi	EMC184055SE	FWXGJC-2018-018	1 year	2026/06/21
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2025/09/03
Anechoic Chamber	SAEMC	FSAC318	FWXGJC-2024-035	3 year	2027/06/02

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2026/07/16
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2026/07/25
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-386	1 year	2025/09/03

Test Software	Manufacturer	Version	Asset No.	Function
JS1120-3 Test System	tonscend	V3.3.10	/	Conducted Test
JS32	tonscend	V5.0.0	/	Radiated Emission
EMI Test Software	R&S	9.26.00	/	Conducted Emission

Auxiliary Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Filter	Tonscend	ZBSF6	07247867	1 year	2026/07/16
Filter	Tonscend	ZHPF6	07233297	1 year	2026/07/16
Attenuator	Tonscend	10dB	/	1 year	2026/07/16
RF Cable	Tonscend	T-1	/	1 year	2026/07/16

6. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.68dB
Radiated Emission Measurement（9kHz - 30MHz）
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 3.06dB
Radiated Emission Measurement（30MHz -1GHz）
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 4.01dB
Radiated Emission Measurement（1-18GHz）
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 4.97dB
Radiated Emission Measurement（18-40GHz）
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 5.32dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 30MHz-1GHz: 1.00 dB 1GHz-12.75GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.20MHz
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.1×10^{-6}MHz

7. Test Result

7.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(1)	20dB Bandwidth	N/A	Conducted	PASS	Section 7.2
15.247(b)(1)	Peak Transmitter Output Power	<0.125 Watt if > 75 non- overlapping channels used		PASS	Section 7.3
15.247(a)(1)	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		PASS	Section 7.4
15.247(a)(1)(iii)	Number of Channels	> 15 Channels		PASS	Section 7.5
15.247(a)(1)(iii)	Time of Occupancy	< 0.4 sec in 31.6 sec period		PASS	Section 7.6
15.247(d)	Band Edge / out- of-Band Emissions	Conducted ≥ 20dBc		PASS	Section 7.7 Section 7.8
15.205, 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	PASS	Section 7.9 Section 7.10
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Not Applicable	Section 7.11

Notes:

1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 20dB Bandwidth Measurement

7.2.1. Test Limit

N/A

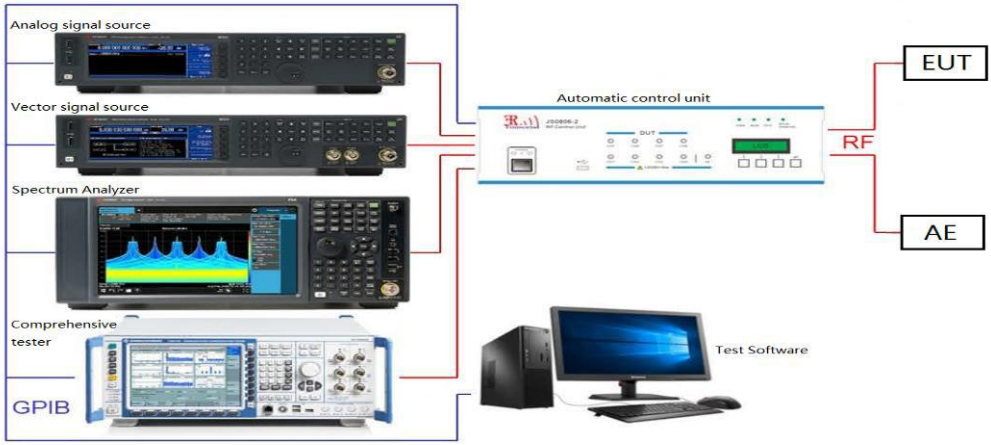
7.2.2. Test Procedure used

ANSI C63.10-2013 - Section 6.9.2

7.2.3. Test Setting

1. Set RBW ≥ 1% to 5% of the 20dB bandwidth
2. VBW = approximately three times RBW
3. Span = approximately 2 to 5 times the 20dB bandwidth, centered on a hopping channel
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. 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 20 dB relative to the maximum level measured in the fundamental emission.

7.2.4. Test Setup



7.2.5. Test Result

Temperature:	26.9 °C
Relative Humidity:	47 %
ATM Pressure:	100.5 kPa
Test Data:	2025-07-23
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	99% BW (MHz)	Verdict
DH5	Ant1	2402	1.056	2401.460	2402.516	0.92919	PASS
		2441	1.044	2440.469	2441.513	0.92310	PASS
		2480	1.044	2479.472	2480.516	0.92438	PASS
2DH5	Ant1	2402	1.317	2401.340	2402.657	1.1803	PASS
		2441	1.296	2440.361	2441.657	1.1792	PASS
		2480	1.323	2479.337	2480.660	1.1838	PASS
3DH5	Ant1	2402	1.320	2401.343	2402.663	1.2046	PASS
		2441	1.305	2440.349	2441.654	1.1956	PASS
		2480	1.302	2479.349	2480.651	1.2001	PASS

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480


2DH5_Ant1_2402

2DH5_Ant1_2441


2DH5_Ant1_2480

3DH5_Ant1_2402


3DH5_Ant1_2441

3DH5_Ant1_2480


7.3. Output Power Measurement

7.3.1. Test Limit

The maximum out power permissible output power is 1 Watt for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.5

7.3.3. Test Setting

1. Set RBW ≥ the 20 dB bandwidth of the emission being measured.
2. VBW ≥ RBW
3. Span = approximately five times the 20dB bandwidth, centered on a hopping channel
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize, Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power (don’t forget added the external attenuation and cable loss)

7.3.4. Test Setup

7.3.5. Test Result

Temperature:	26.9 °C
Relative Humidity:	47 %
ATM Pressure:	100.5 kPa
Test Data:	2025-07-23
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	11.24	≤20.97	PASS
		2441	11.14	≤20.97	PASS
		2480	12.05	≤20.97	PASS
2DH5	Ant1	2402	11.08	≤20.97	PASS
		2441	11.15	≤20.97	PASS
		2480	11.92	≤20.97	PASS
3DH5	Ant1	2402	11.03	≤20.97	PASS
		2441	11.15	≤20.97	PASS
		2480	11.87	≤20.97	PASS

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

2DH5_Ant1_2402

2DH5_Ant1_2441


2DH5_Ant1_2480

3DH5_Ant1_2402


3DH5_Ant1_2441

3DH5_Ant1_2480


7.4. Carrier Frequency Separation Measurement

7.4.1. Test Limit

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

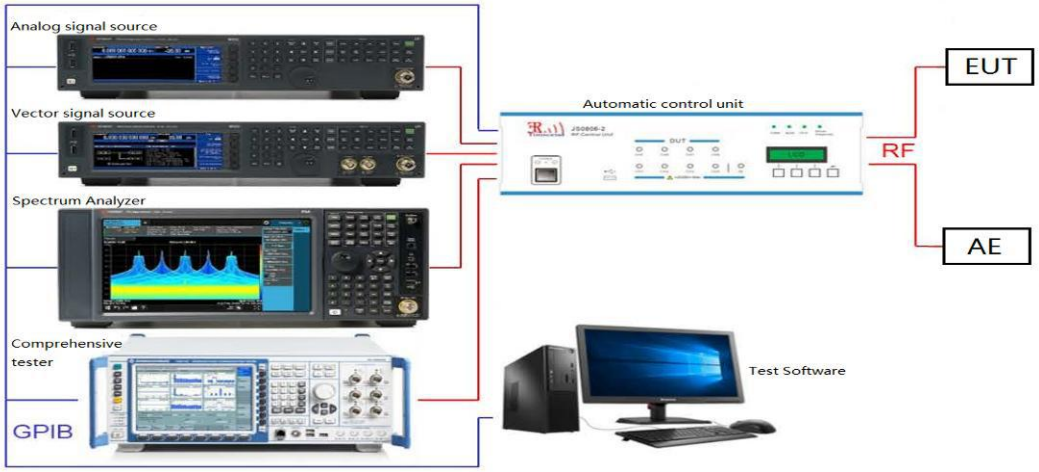
7.4.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.2

7.4.3. Test Setting

1. Span = wide enough to capture the peaks of two adjacent channels.
2. Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3. VBW ≥ RBW
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allowed the trace to stabilize
8. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

7.4.4. Test Setup



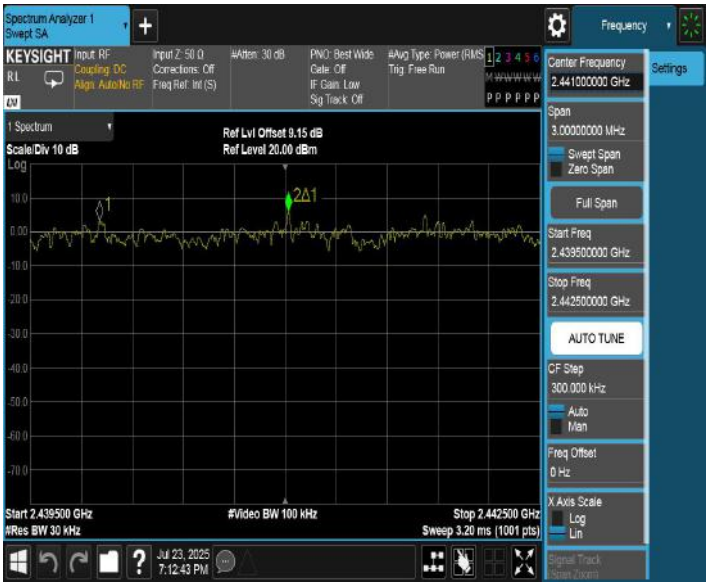
7.4.5. Test Result

Temperature:	26.9 °C
Relative Humidity:	47 %
ATM Pressure:	100.5 kPa
Test Data:	2025-07-23
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.146	≥0.704	PASS
2DH5	Ant1	Hop	1.308	≥0.882	PASS
3DH5	Ant1	Hop	1.113	≥0.880	PASS

DH5_Ant1_Hop

2DH5_Ant1_Hop

3DH5_Ant1_Hop


7.5. Number of Hopping Channels Measurement

7.5.1. Test Limit

Regulation 15.247 (a) (1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

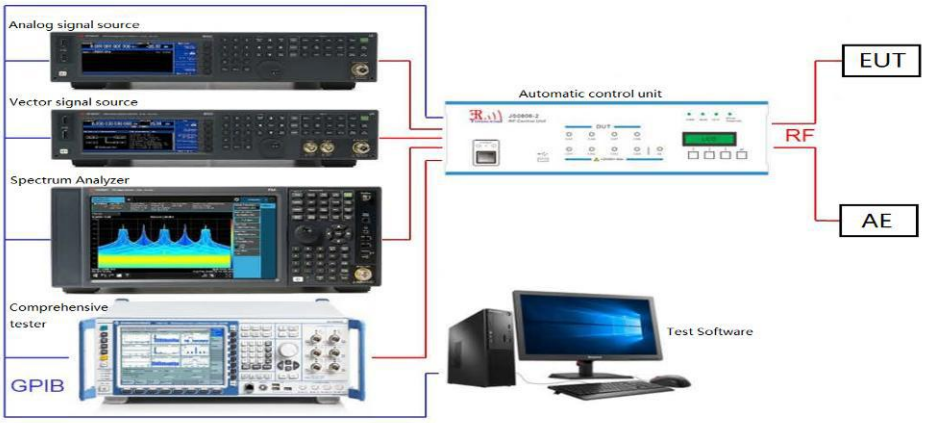
7.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.3

7.5.3. Test Setting

1. Span = the frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
2. To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. VBW ≥ RBW
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allow the trace to stabilize

7.5.4. Test Setup

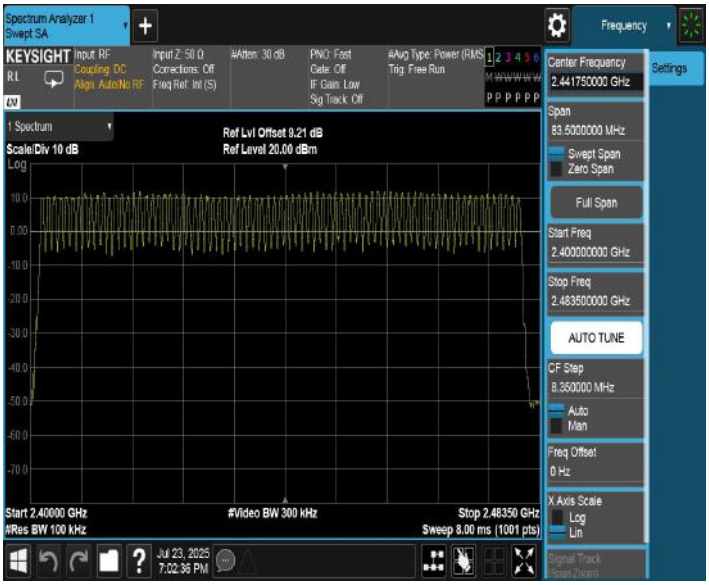


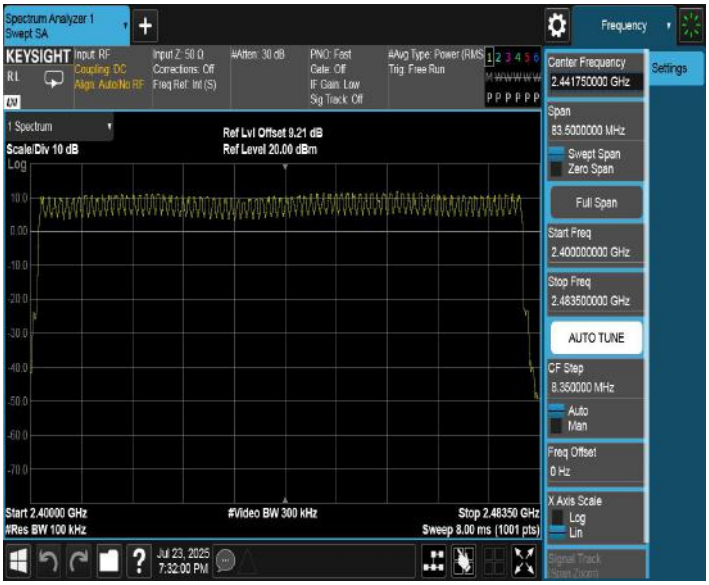
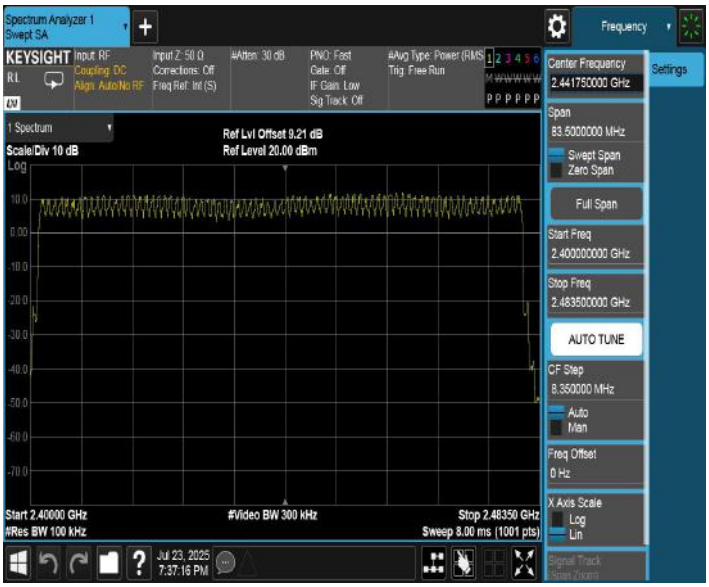
7.5.5. Test Result

Temperature:	26.9 °C
Relative Humidity:	47 %
ATM Pressure:	100.5 kPa
Test Data:	2025-07-23
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

DH5_Ant1_Hop



2DH5_Ant1_Hop

3DH5_Ant1_Hop


7.6. Time of Occupancy Measurement

7.6.1. Test Limit

The maximum permissible time of occupancy is 400ms within a period of 400ms multiplied by the number of hopping channels employed.

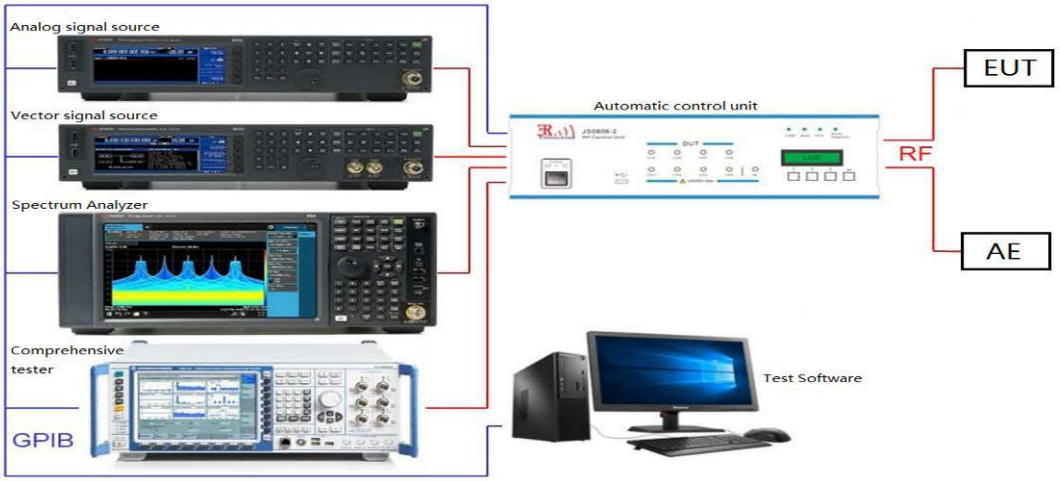
7.6.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.4

7.6.3. Test Stetting

1. Span = zero span, centered on a hopping channel.
2. RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
3. VBW ≥ RBW
4. Sweep time = as necessary to capture the entire dwell time per hopping channel
5. Detector = Peak
6. Trace mode = max hold
7. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

7.6.4. Test Setup

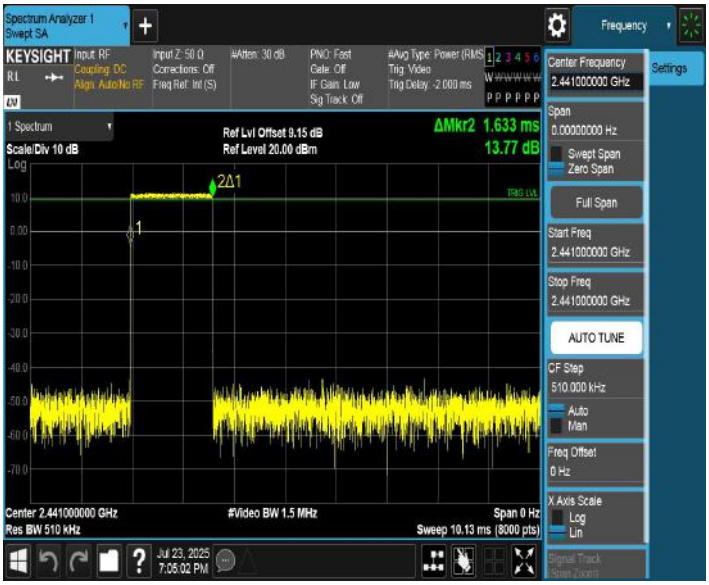


7.6.5. Test Result

Temperature:	25.0-28.2 °C
Relative Humidity:	37-57 %
ATM Pressure:	99.2-100.8 kPa
Test Data:	2025-07-23 ~ 08-12
Test Engineer:	Stone Zhang

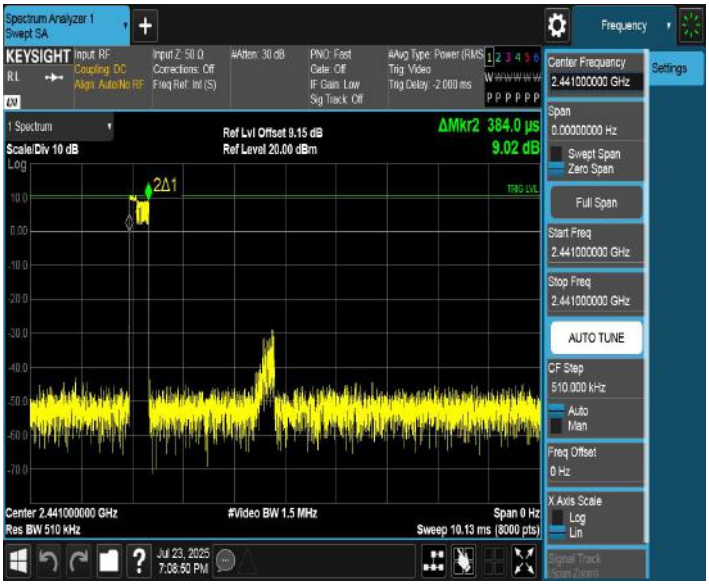
Test Mode	Antenna	Frequency (MHz)	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.882	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.637	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.331	320	0.106	≤0.4	PASS
3DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS

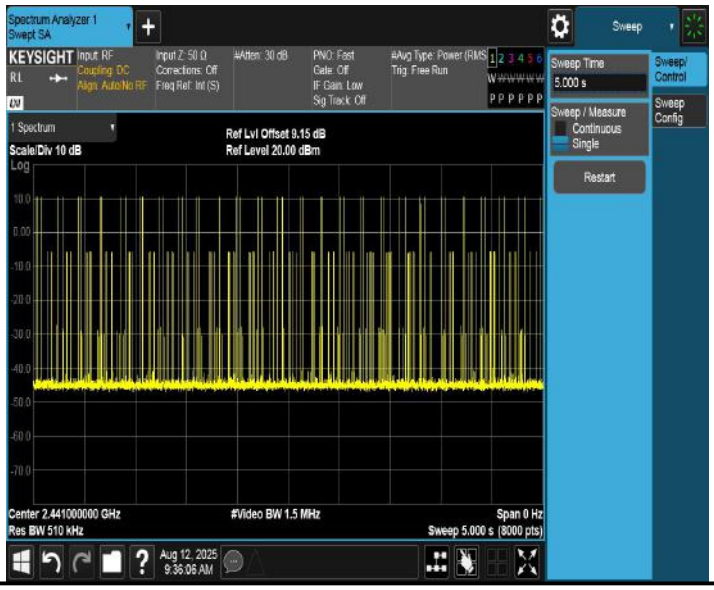
DH1_Ant1_Hop
 Spectrum Analyzer 1 Swept SA KEYSIGHT Ref Lvl Offset 9.15 dB Ref Level 20.00 dBm ΔMkr2 376.0 µs 5.19 dB Center 2.441000000 GHz #Video BW 1.5 MHz Span 0 Hz Res BW 510 kHz Sweep 10.13 ms (8000 pts) Jul 23, 2025 7:04:12 PM Frequency Center Frequency 2.441000000 GHz Span Swept Span Zero Span Full Span Start Freq Stop Freq AUTO TUNE CF Step 510.000 kHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Settings
 Spectrum Analyzer 1 Swept SA KEYSIGHT Ref Lvl Offset 9.15 dB Ref Level 20.00 dBm Center 2.441000000 GHz #Video BW 1.5 MHz Span 0 Hz Res BW 510 kHz Sweep 5.000 s (8000 pts) Aug 12, 2025 9:30:57 AM Frequency Center Frequency 2.441000000 GHz Span Swept Span Zero Span Full Span Start Freq Stop Freq AUTO TUNE CF Step 510.000 kHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin Settings

DH3_Ant1_Hop
 Spectrum Analyzer 1 Swept SA KEYSIGHT Frequency Settings Center Frequency 2.441000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz AUTO TUNE CF Step 510.000 kHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin 1 Spectrum Scale/Div 10 dB Ref Lvl Offset 9.15 dB Ref Level 20.00 dBm ΔMkr2 1.633 ms 13.77 dB 2Δ1 1 Center 2.441000000 GHz Res BW 510 kHz #Video BW 1.5 MHz Span 0 Hz Sweep 10.13 ms (8000 pts) Jul 23, 2025 7:06:02 PM
 Spectrum Analyzer 1 Swept SA KEYSIGHT Frequency Settings Center Frequency 2.441000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz AUTO TUNE CF Step 510.000 kHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin 1 Spectrum Scale/Div 10 dB Ref Lvl Offset 9.15 dB Ref Level 20.00 dBm Center 2.441000000 GHz Res BW 510 kHz #Video BW 1.5 MHz Span 0 Hz Sweep 5.000 s (8000 pts) Aug 12, 2025 9:32:24 AM

DH5_Ant1_Hop
 Spectrum Analyzer 1 Swept SA KEYSIGHT Frequency Settings Center Frequency 2.441000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz AUTO TUNE CF Step 510.000 kHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin 1 Spectrum Scale/Div 10 dB Ref Lvl Offset 9.15 dB Ref Level 20.00 dBm ΔMkr2 2.882 ms 15.94 dB 2Δ1 Center 2.441000000 GHz Res BW 510 kHz #Video BW 1.5 MHz Span 0 Hz Sweep 10.13 ms (8000 pts) Jul 23, 2025 7:02:54 PM
 Spectrum Analyzer 1 Swept SA KEYSIGHT Frequency Settings Center Frequency 2.441000000 GHz Span 0.00000000 Hz Swept Span Zero Span Full Span Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz AUTO TUNE CF Step 510.000 kHz Auto Man Freq Offset 0 Hz X Axis Scale Log Lin 1 Spectrum Scale/Div 10 dB Ref Lvl Offset 9.15 dB Ref Level 20.00 dBm Center 2.441000000 GHz Res BW 510 kHz #Video BW 1.5 MHz Span 0 Hz Sweep 5.000 s (8000 pts) Aug 12, 2025 9:28:42 AM

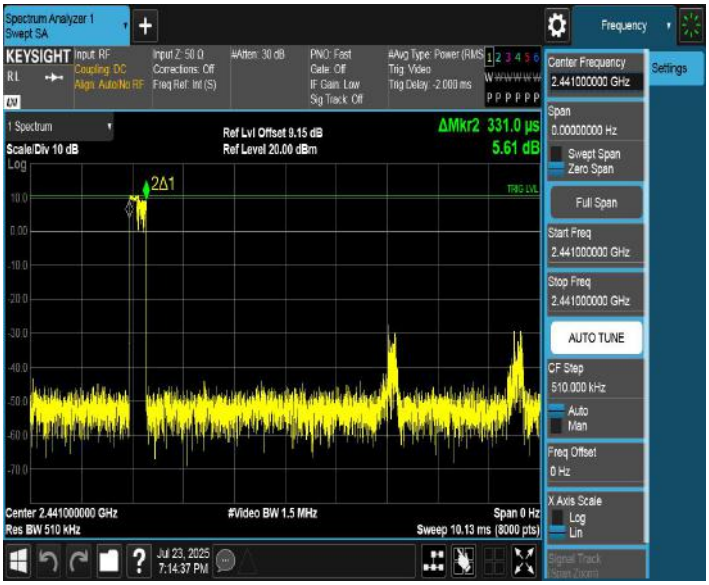
2DH1_Ant1_Hop





2DH3_Ant1_Hop

2DH5_Ant1_Hop

3DH1_Ant1_Hop


3DH3_Ant1_Hop


3DH5_Ant1_Hop

7.7. Band-edge Compliance Measurement

7.7.1. Test Limit

The maximum permissible emission level is 20dBc. Any emissions were lying outside of the emission bandwidth and in authorized band edges to a field strength limit specified in Section 15.209 of the Title 47 CFR.

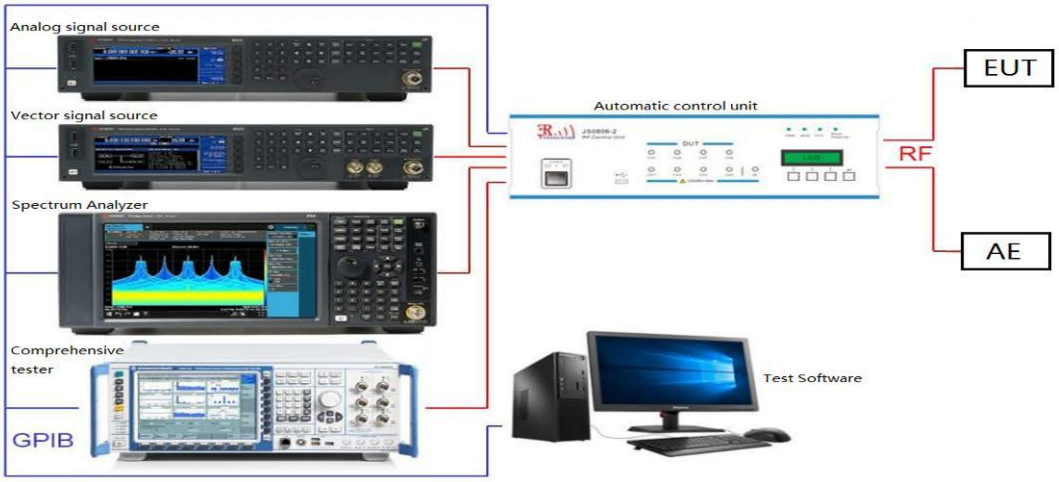
7.7.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.10.4

7.7.3. Test Setting

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 which fall outside of the authorized band of operation.
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, than use the marker-to-peak function to move the marker to the peak of the in-band emission.

7.7.4. Test Setup



7.7.5. Test Result

Temperature:	26.9 °C
Relative Humidity:	47 %
ATM Pressure:	100.5 kPa
Test Data:	2025-07-23
Test Engineer:	Stone Zhang

Test Mode	Antenna	Ch Name	Frequency (MHz)	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.06	-47.03	≤-8.94	PASS
		High	2480	11.51	-48.67	≤-8.49	PASS
		Low	Hop_2402	9.87	-49.48	≤-10.13	PASS
		High	Hop_2480	11.10	-48.61	≤-8.9	PASS
2DH5	Ant1	Low	2402	9.90	-39.9	≤-10.1	PASS
		High	2480	11.12	-48.02	≤-8.88	PASS
		Low	Hop_2402	6.77	-42.64	≤-13.23	PASS
		High	Hop_2480	10.21	-48.81	≤-9.79	PASS
3DH5	Ant1	Low	2402	10.30	-39.62	≤-9.7	PASS
		High	2480	11.19	-47.65	≤-8.81	PASS
		Low	Hop_2402	7.58	-41.04	≤-12.42	PASS
		High	Hop_2480	8.13	-48.91	≤-11.87	PASS

DH5_Ant1_Low_2402

DH5_Ant1_High_2480

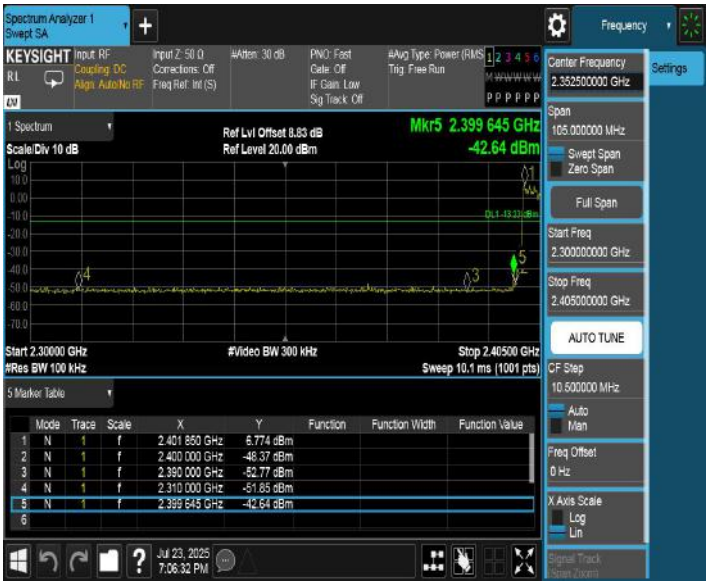
DH5_Ant1_Low_Hop_2402

DH5_Ant1_High_Hop_2480

2DH5_Ant1_Low_2402

2DH5_Ant1_High_2480


2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

3DH5_Ant1_Low_2402

3DH5_Ant1_High_2480


3DH5_Ant1_Low_Hop_2402

3DH5_Ant1_High_Hop_2480


7.8. Conducted Spurious Emissions Measurement

7.8.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

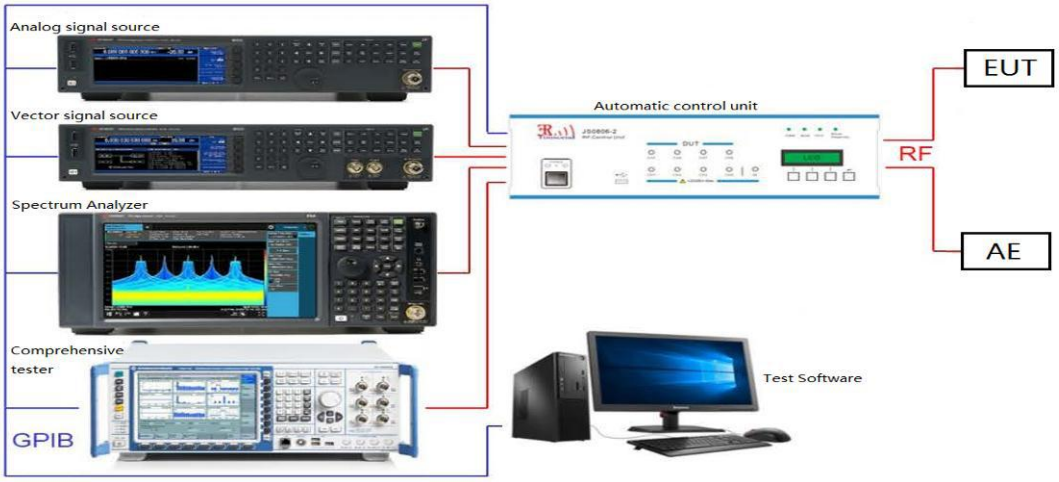
7.8.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.8

7.8.3. Test Setting

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100 KHz
3. VBW ≥ RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

7.8.4. Test Setup



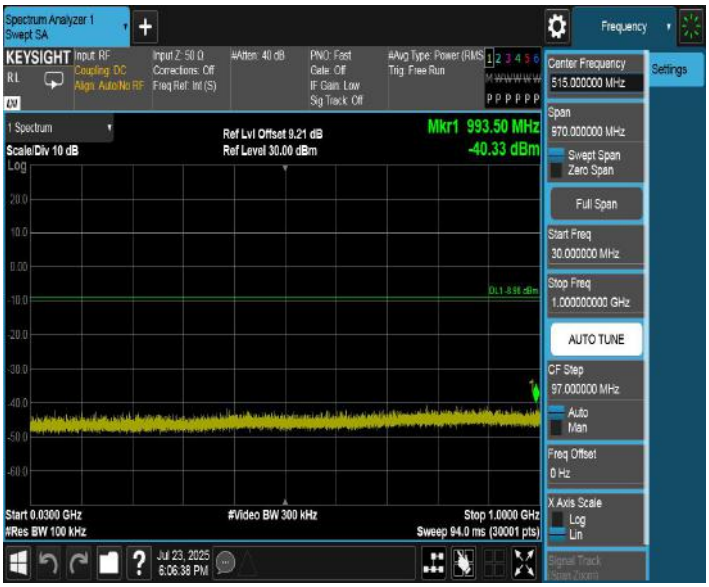
7.8.5. Test Result

Temperature:	26.9 °C
Relative Humidity:	47 %
ATM Pressure:	100.5 kPa
Test Data:	2025-07-23
Test Engineer:	Stone Zhang

Test Mode	Antenna	Frequency (MHz)	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	11.02	11.02	---	PASS
			30~1000	11.02	-40.33	≤-8.98	PASS
			1000~26500	11.02	-27.74	≤-8.98	PASS
		2441	Reference	11.14	11.14	---	PASS
			30~1000	11.14	-40.44	≤-8.86	PASS
			1000~26500	11.14	-28.09	≤-8.86	PASS
		2480	Reference	11.51	11.51	---	PASS
			30~1000	11.51	-41.31	≤-8.49	PASS
			1000~26500	11.51	-27.56	≤-8.49	PASS
2DH5	Ant1	2402	Reference	10.32	10.32	---	PASS
			30~1000	10.32	-40.67	≤-9.68	PASS
			1000~26500	10.32	-27.25	≤-9.68	PASS
		2441	Reference	10.37	10.37	---	PASS
			30~1000	10.37	-41.02	≤-9.63	PASS
			1000~26500	10.37	-21.34	≤-9.63	PASS
		2480	Reference	11.04	11.04	---	PASS
			30~1000	11.04	-41.08	≤-8.96	PASS
			1000~26500	11.04	-22.8	≤-8.96	PASS
3DH5	Ant1	2402	Reference	10.26	10.26	---	PASS
			30~1000	10.26	-40.47	≤-9.74	PASS
			1000~26500	10.26	-28.92	≤-9.74	PASS
		2441	Reference	10.43	10.43	---	PASS
			30~1000	10.43	-40.27	≤-9.57	PASS
			1000~26500	10.43	-32.03	≤-9.57	PASS
		2480	Reference	11.11	11.11	---	PASS
			30~1000	11.11	-40.92	≤-8.89	PASS
			1000~26500	11.11	-31.44	≤-8.89	PASS

DH5_Ant1_2402_0~Reference

DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

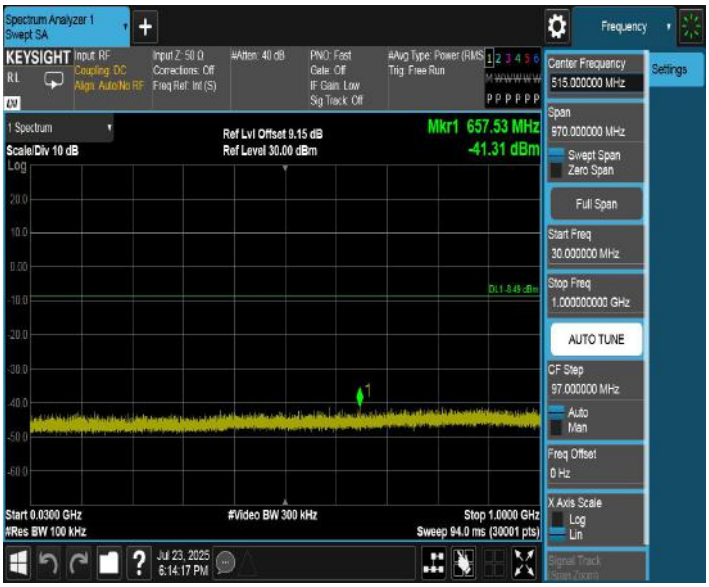
DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000

DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

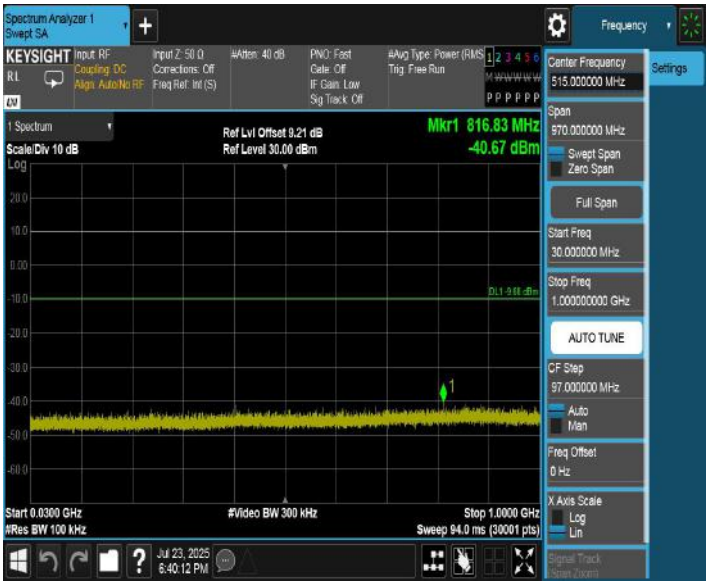
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

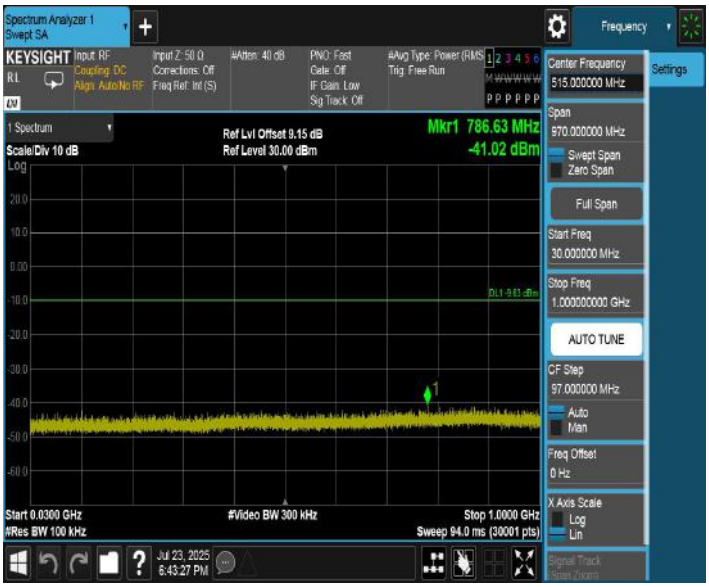
2DH5_Ant1_2402_0~Reference

2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500

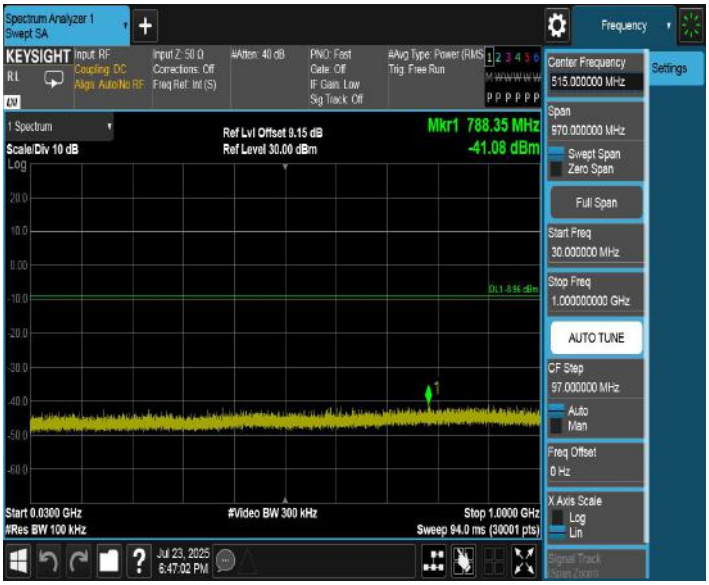
2DH5_Ant1_2441_0~Reference

2DH5_Ant1_2441_30~1000


2DH5_Ant1_2441_1000~26500

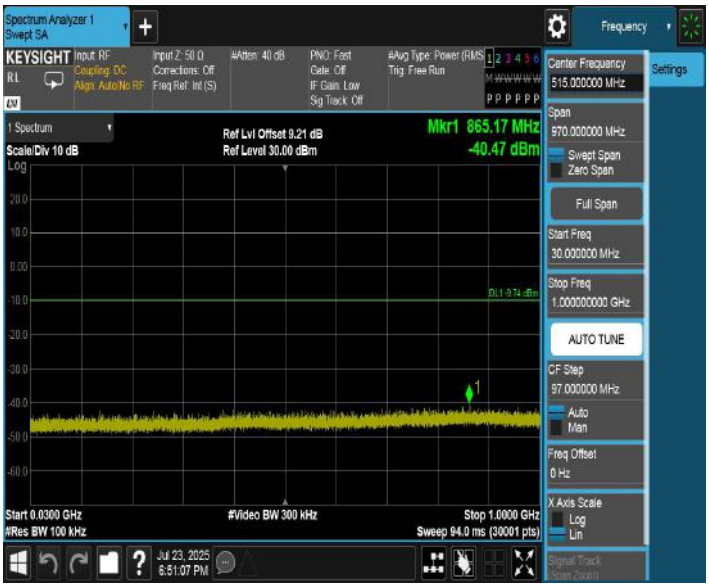
2DH5_Ant1_2480_0~Reference

2DH5_Ant1_2480_30~1000



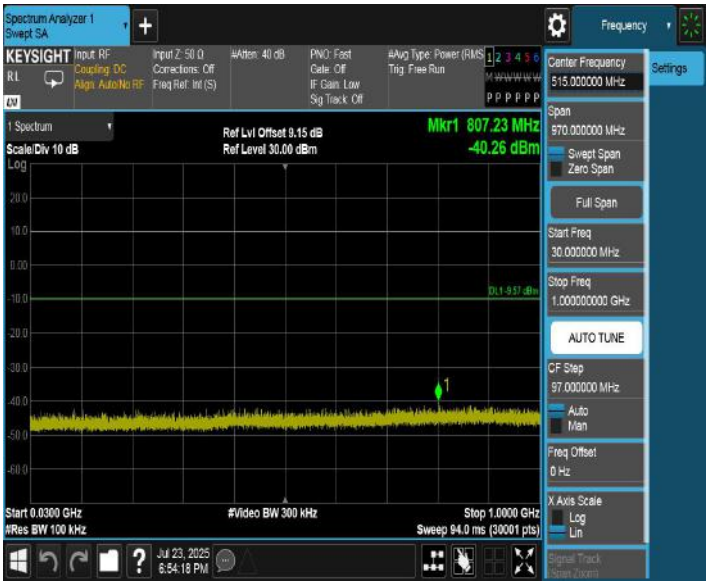
2DH5_Ant1_2480_1000~26500

3DH5_Ant1_2402_0~Reference

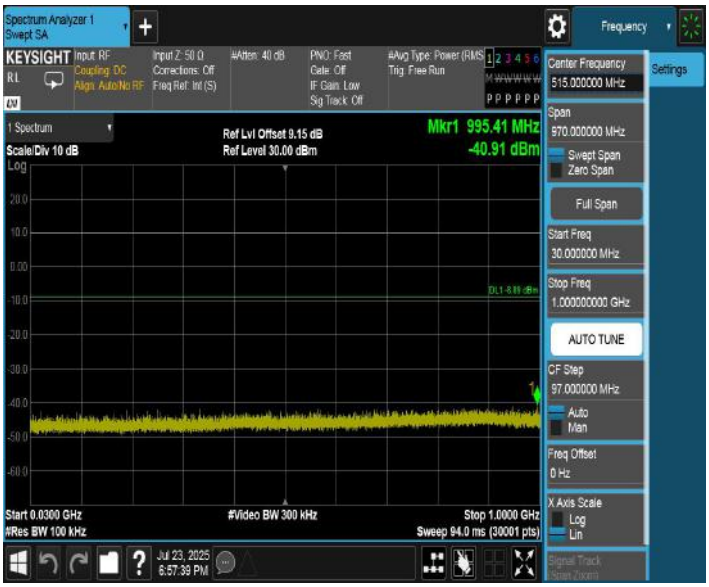
3DH5_Ant1_2402_30~1000


3DH5_Ant1_2402_1000~26500

3DH5_Ant1_2441_0~Reference


3DH5_Ant1_2441_30~1000

3DH5_Ant1_2441_1000~26500


3DH5_Ant1_2480_0~Reference

3DH5_Ant1_2480_30~1000


3DH5_Ant1_2480_1000~26500


7.9. Radiated Spurious Emission Measurement

7.9.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.9.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.9.3. Test Setting

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

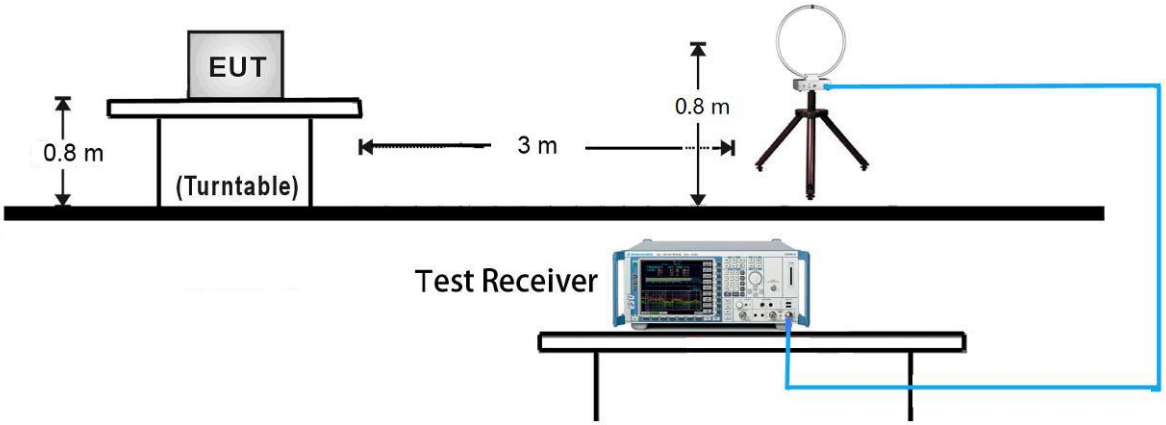
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto

6. Trace mode = max hold

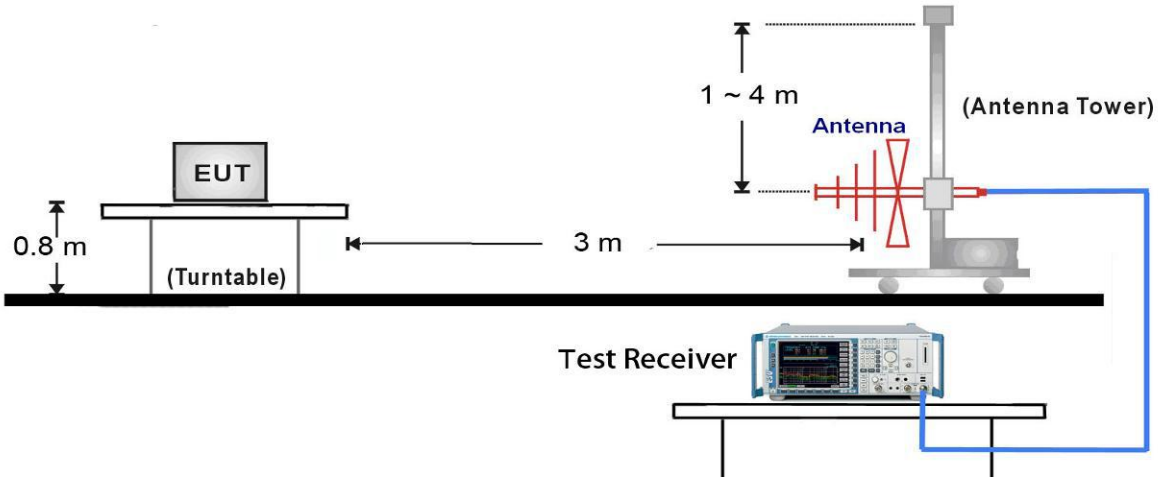
7. Trace was allowed to stabilize

7.9.4. Test Setup

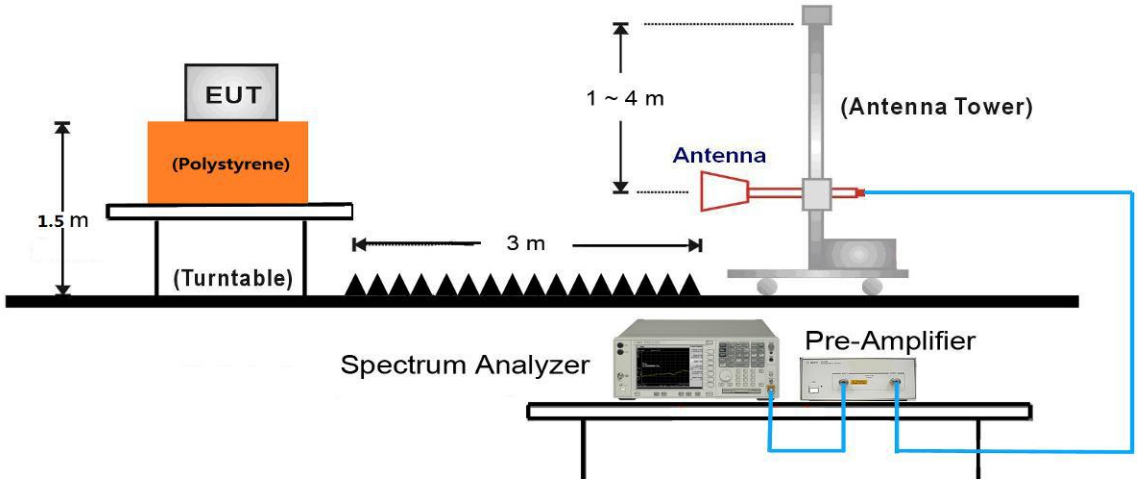
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:

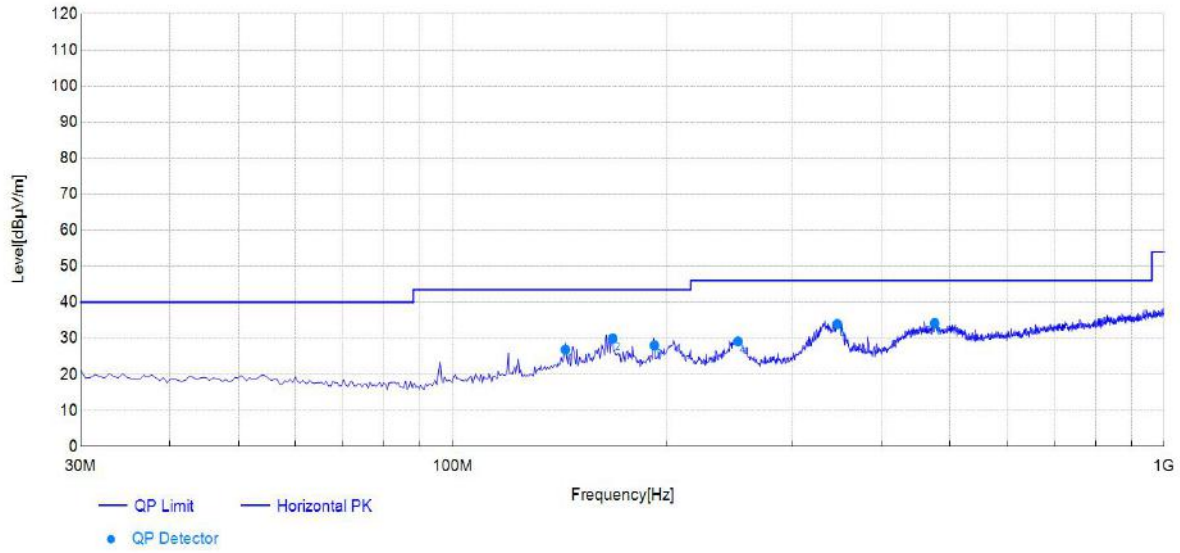


7.9.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	IVI Assy	Polarity:	Horizontal
Model:	Q000	SN:	N/A
Mode:	Transmit at BT_DH5 Channel 00	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	144.03	16.71	10.13	26.84	43.50	16.66	150	37	Horizontal	PASS
2	167.81	17.65	12.31	29.96	43.50	13.54	150	331	Horizontal	PASS
3	192.07	15.39	12.64	28.03	43.50	15.47	150	311	Horizontal	PASS
4	251.76	16.09	13.07	29.16	46.00	16.84	100	61	Horizontal	PASS
5	346.86	17.85	16.11	33.96	46.00	12.04	100	35	Horizontal	PASS
6	475.45	21.40	12.77	34.17	46.00	11.83	150	37	Horizontal	PASS

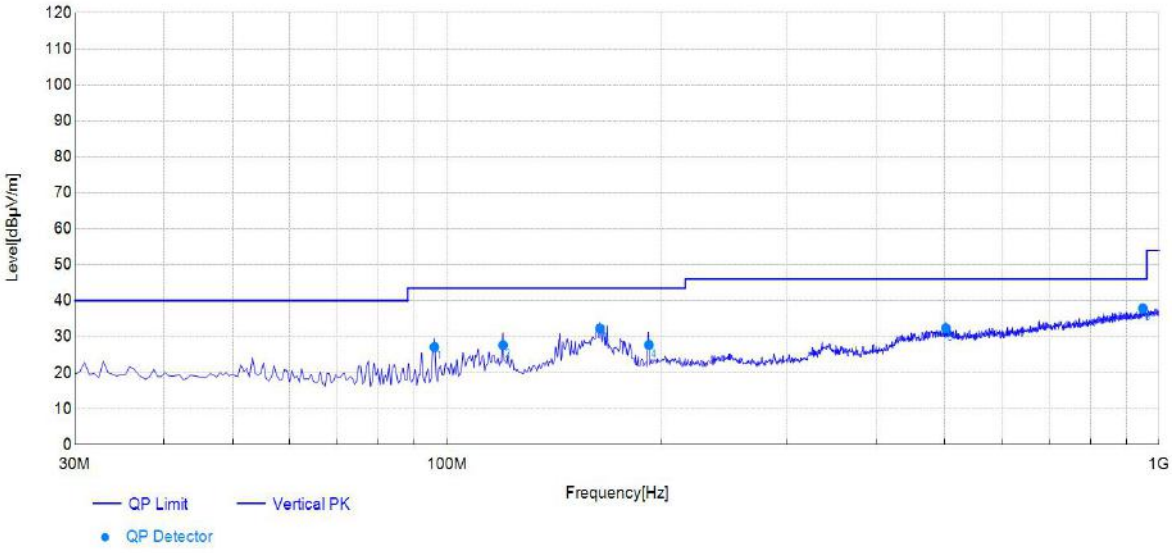
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	IVI Assy	Polarity:	Vertical
Model:	Q000	SN:	N/A
Mode:	Transmit at BT_DH5 Channel 00	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	95.99	11.81	15.29	27.10	43.50	16.40	100	318	Vertical	PASS
2	119.77	14.38	13.26	27.64	43.50	15.86	100	116	Vertical	PASS
3	163.93	17.75	14.52	32.27	43.50	11.23	100	166	Vertical	PASS
4	192.07	15.39	12.31	27.70	43.50	15.80	100	173	Vertical	PASS
5	501.17	22.29	10.08	32.37	46.00	13.63	100	47	Vertical	PASS
6	947.59	28.83	9.04	37.87	46.00	8.13	100	93	Vertical	PASS

Note:

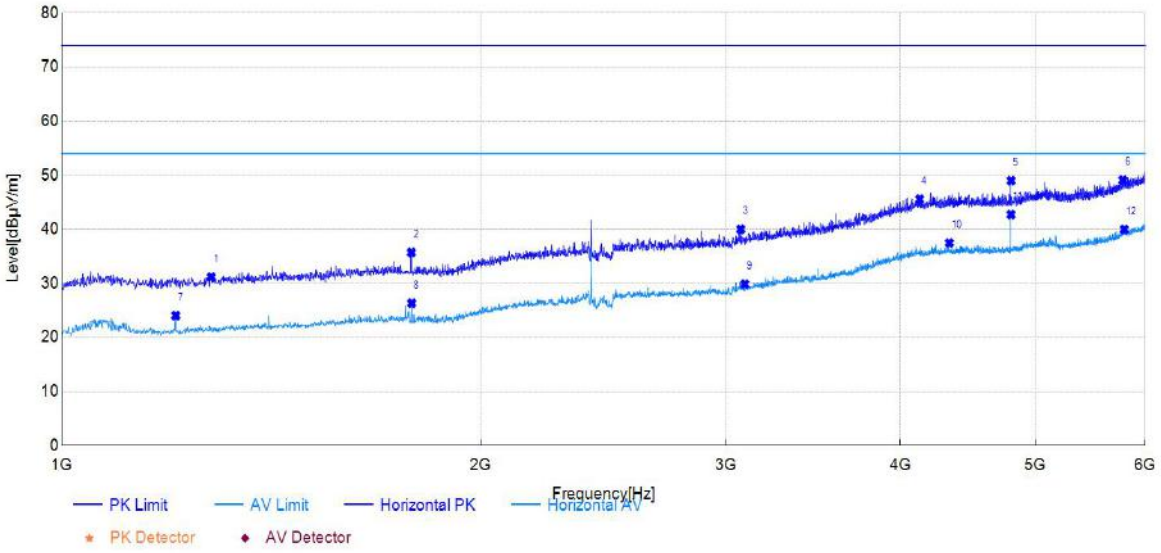
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

1GHz-6GHz

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	00	Test Engineer:	Stone Zhang



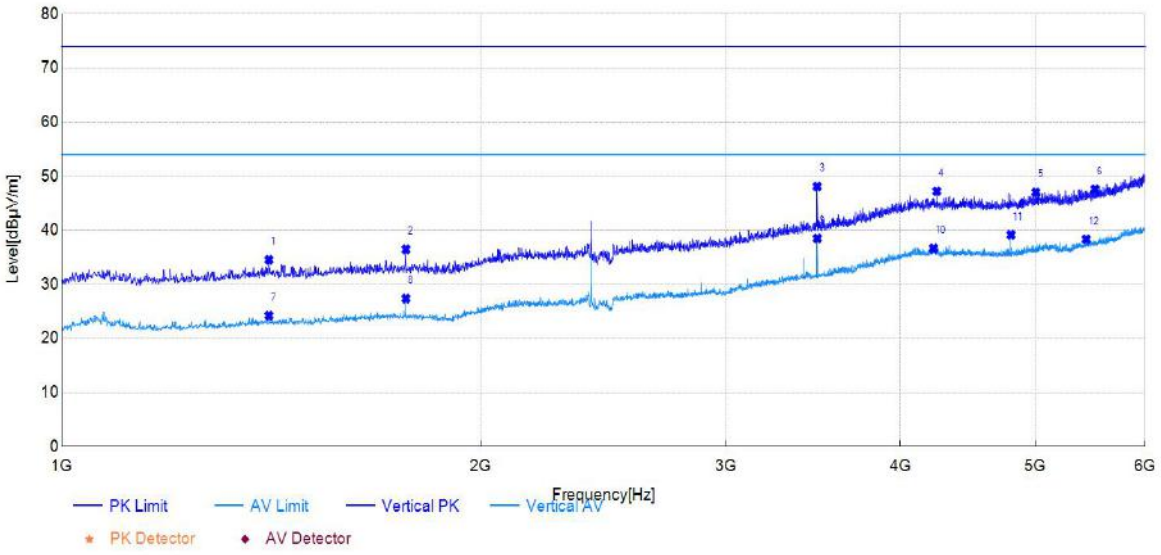
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1281.00	54.16	31.16	-23.00	74.00	42.84	150	0	PK	Horizontal	PASS
2	1783.00	55.32	35.70	-19.62	74.00	38.30	150	211	PK	Horizontal	PASS
3	3073.00	54.20	39.99	-14.21	74.00	34.01	100	221	PK	Horizontal	PASS
4	4131.00	53.60	45.54	-8.06	74.00	28.46	100	195	PK	Horizontal	PASS
5	4805.00	55.77	48.99	-6.78	74.00	25.01	150	332	PK	Horizontal	PASS
6	5781.00	54.43	49.08	-5.35	74.00	24.92	100	235	PK	Horizontal	PASS
7	1208.00	47.41	24.01	-23.40	54.00	29.99	150	44	AV	Horizontal	PASS
8	1784.00	45.94	26.32	-19.62	54.00	27.68	150	211	AV	Horizontal	PASS
9	3095.00	43.95	29.84	-14.11	54.00	24.16	150	174	AV	Horizontal	PASS
10	4338.00	45.02	37.45	-7.57	54.00	16.55	100	343	AV	Horizontal	PASS
11	4804.00	49.50	42.72	-6.78	54.00	11.28	150	323	AV	Horizontal	PASS
12	5795.00	45.25	39.96	-5.29	54.00	14.04	150	190	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

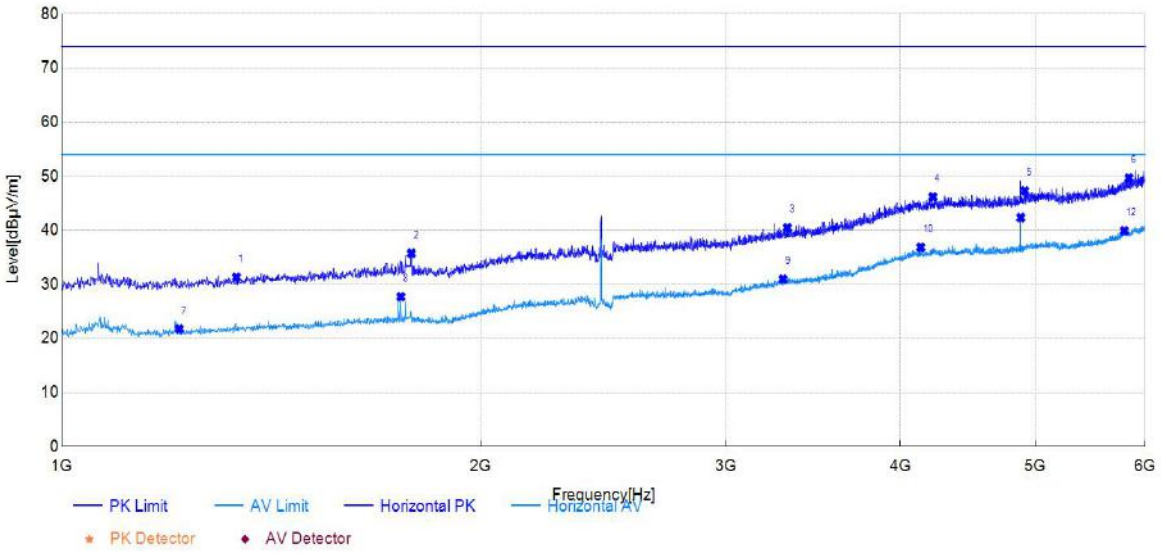
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1409.00	55.83	34.54	-21.29	74.00	39.46	150	233	PK	Vertical	PASS
2	1767.00	55.64	36.47	-19.17	74.00	37.53	100	204	PK	Vertical	PASS
3	3487.00	59.75	48.11	-11.64	74.00	25.89	100	248	PK	Vertical	PASS
4	4250.00	55.01	47.21	-7.80	74.00	26.79	100	312	PK	Vertical	PASS
5	5006.00	53.72	47.01	-6.71	74.00	26.99	100	185	PK	Vertical	PASS
6	5521.00	53.50	47.59	-5.91	74.00	26.41	100	34	PK	Vertical	PASS
7	1409.00	45.48	24.19	-21.29	54.00	29.81	150	36	AV	Vertical	PASS
8	1767.00	46.53	27.36	-19.17	54.00	26.64	100	204	AV	Vertical	PASS
9	3488.00	50.13	38.50	-11.63	54.00	15.50	100	248	AV	Vertical	PASS
10	4227.00	44.50	36.64	-7.86	54.00	17.36	150	215	AV	Vertical	PASS
11	4804.00	46.47	39.15	-7.32	54.00	14.85	100	319	AV	Vertical	PASS
12	5441.00	44.37	38.34	-6.03	54.00	15.66	150	226	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	39	Test Engineer:	Stone Zhang



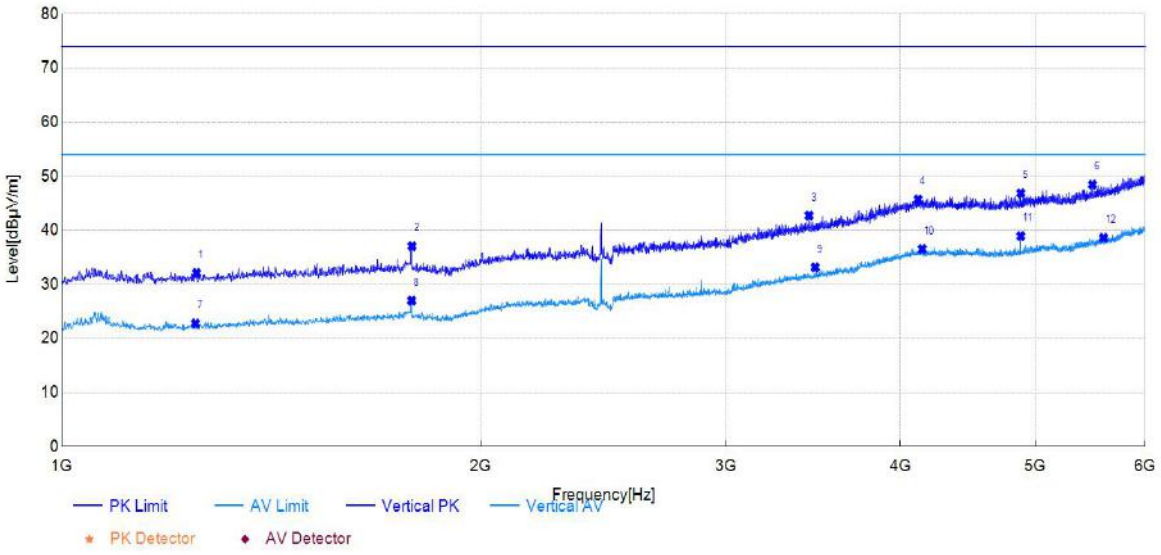
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1335.00	53.97	31.32	-22.65	74.00	42.68	150	194	PK	Horizontal	PASS
2	1783.00	55.34	35.72	-19.62	74.00	38.28	100	64	PK	Horizontal	PASS
3	3320.00	53.51	40.46	-13.05	74.00	33.54	100	165	PK	Horizontal	PASS
4	4222.00	54.07	46.16	-7.91	74.00	27.84	100	203	PK	Horizontal	PASS
5	4915.00	53.73	47.30	-6.43	74.00	26.70	100	34	PK	Horizontal	PASS
6	5838.00	54.86	49.66	-5.20	74.00	24.34	100	326	PK	Horizontal	PASS
7	1215.00	45.11	21.74	-23.37	54.00	32.26	100	52	AV	Horizontal	PASS
8	1752.00	47.58	27.69	-19.89	54.00	26.31	150	17	AV	Horizontal	PASS
9	3296.00	44.08	30.94	-13.14	54.00	23.06	100	55	AV	Horizontal	PASS
10	4138.00	44.88	36.83	-8.05	54.00	17.17	150	280	AV	Horizontal	PASS
11	4882.00	48.89	42.33	-6.56	54.00	11.67	150	327	AV	Horizontal	PASS
12	5795.00	45.17	39.88	-5.29	54.00	14.12	150	0	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	39	Test Engineer:	Stone Zhang



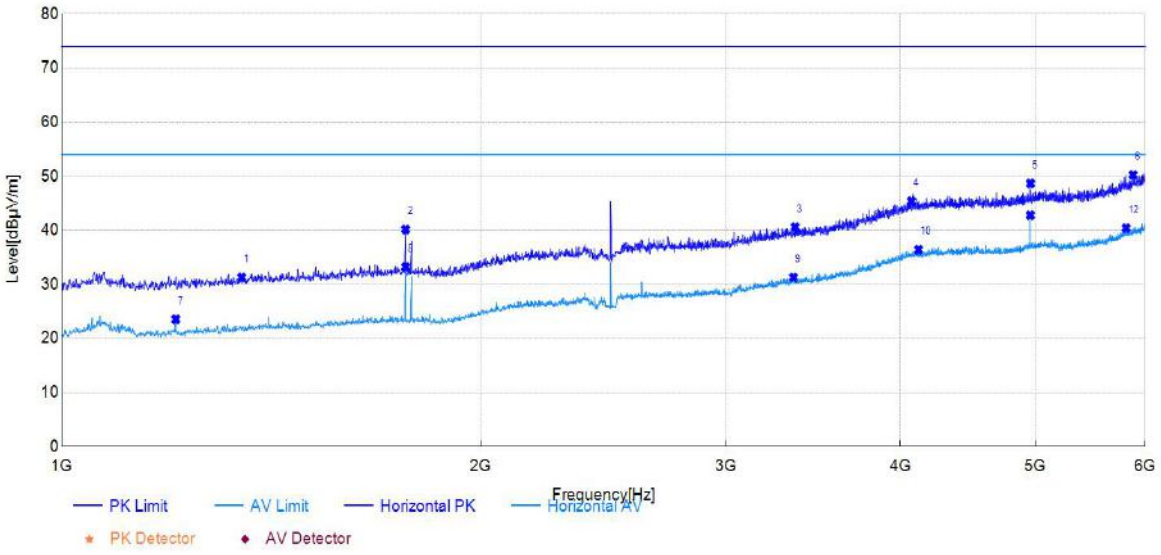
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1250.00	54.31	32.09	-22.22	74.00	41.91	100	354	PK	Vertical	PASS
2	1785.00	56.10	37.06	-19.04	74.00	36.94	150	63	PK	Vertical	PASS
3	3441.00	54.59	42.71	-11.88	74.00	31.29	100	94	PK	Vertical	PASS
4	4121.00	53.59	45.68	-7.91	74.00	28.32	100	217	PK	Vertical	PASS
5	4882.00	54.01	46.85	-7.16	74.00	27.15	150	315	PK	Vertical	PASS
6	5497.00	54.37	48.44	-5.93	74.00	25.56	100	191	PK	Vertical	PASS
7	1248.00	45.01	22.78	-22.23	54.00	31.22	150	159	AV	Vertical	PASS
8	1784.00	46.02	26.98	-19.04	54.00	27.02	150	237	AV	Vertical	PASS
9	3475.00	44.83	33.13	-11.70	54.00	20.87	150	214	AV	Vertical	PASS
10	4148.00	44.44	36.52	-7.92	54.00	17.48	150	207	AV	Vertical	PASS
11	4882.00	46.07	38.91	-7.16	54.00	15.09	150	322	AV	Vertical	PASS
12	5599.00	44.44	38.62	-5.82	54.00	15.38	100	288	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	78	Test Engineer:	Stone Zhang



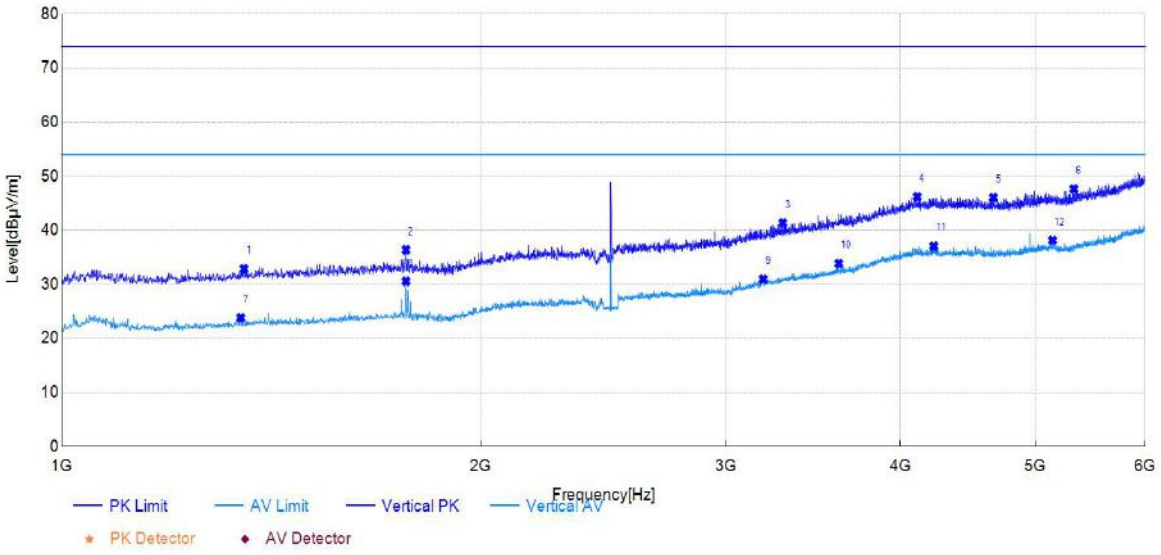
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1347.00	53.86	31.30	-22.56	74.00	42.70	100	297	PK	Horizontal	PASS
2	1766.00	59.91	40.14	-19.77	74.00	33.86	100	274	PK	Horizontal	PASS
3	3362.00	53.51	40.60	-12.91	74.00	33.40	100	192	PK	Horizontal	PASS
4	4075.00	53.59	45.38	-8.21	74.00	28.62	100	352	PK	Horizontal	PASS
5	4961.00	54.88	48.67	-6.21	74.00	25.33	150	287	PK	Horizontal	PASS
6	5880.00	55.36	50.24	-5.12	74.00	23.76	150	158	PK	Horizontal	PASS
7	1208.00	46.94	23.54	-23.40	54.00	30.46	150	47	AV	Horizontal	PASS
8	1766.00	52.96	33.19	-19.77	54.00	20.81	100	274	AV	Horizontal	PASS
9	3353.00	44.23	31.29	-12.94	54.00	22.71	150	135	AV	Horizontal	PASS
10	4124.00	44.47	36.40	-8.07	54.00	17.60	100	199	AV	Horizontal	PASS
11	4960.00	48.99	42.78	-6.21	54.00	11.22	150	321	AV	Horizontal	PASS
12	5812.00	45.65	40.40	-5.25	54.00	13.60	100	334	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	78	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1352.00	54.50	32.86	-21.64	74.00	41.14	100	4	PK	Vertical	PASS
2	1767.00	55.55	36.38	-19.17	74.00	37.62	100	54	PK	Vertical	PASS
3	3295.00	53.95	41.36	-12.59	74.00	32.64	100	287	PK	Vertical	PASS
4	4115.00	54.09	46.18	-7.91	74.00	27.82	150	84	PK	Vertical	PASS
5	4666.00	53.48	46.04	-7.44	74.00	27.96	100	253	PK	Vertical	PASS
6	5330.00	54.04	47.66	-6.38	74.00	26.34	100	0	PK	Vertical	PASS
7	1345.00	45.47	23.79	-21.68	54.00	30.21	150	159	AV	Vertical	PASS
8	1767.00	49.72	30.55	-19.17	54.00	23.45	100	54	AV	Vertical	PASS
9	3190.00	44.19	30.96	-13.23	54.00	23.04	100	150	AV	Vertical	PASS
10	3614.00	44.58	33.83	-10.75	54.00	20.17	100	14	AV	Vertical	PASS
11	4229.00	44.91	37.05	-7.86	54.00	16.95	100	117	AV	Vertical	PASS
12	5147.00	44.80	38.15	-6.65	54.00	15.85	100	29	AV	Vertical	PASS

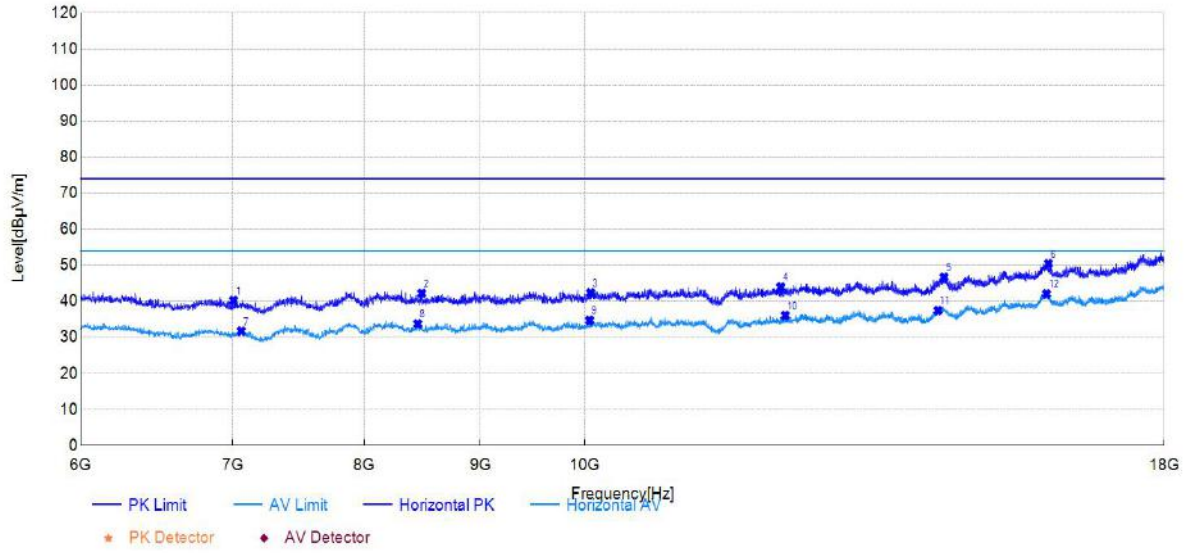
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

6GHz-18GHz

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	00	Test Engineer:	Stone Zhang



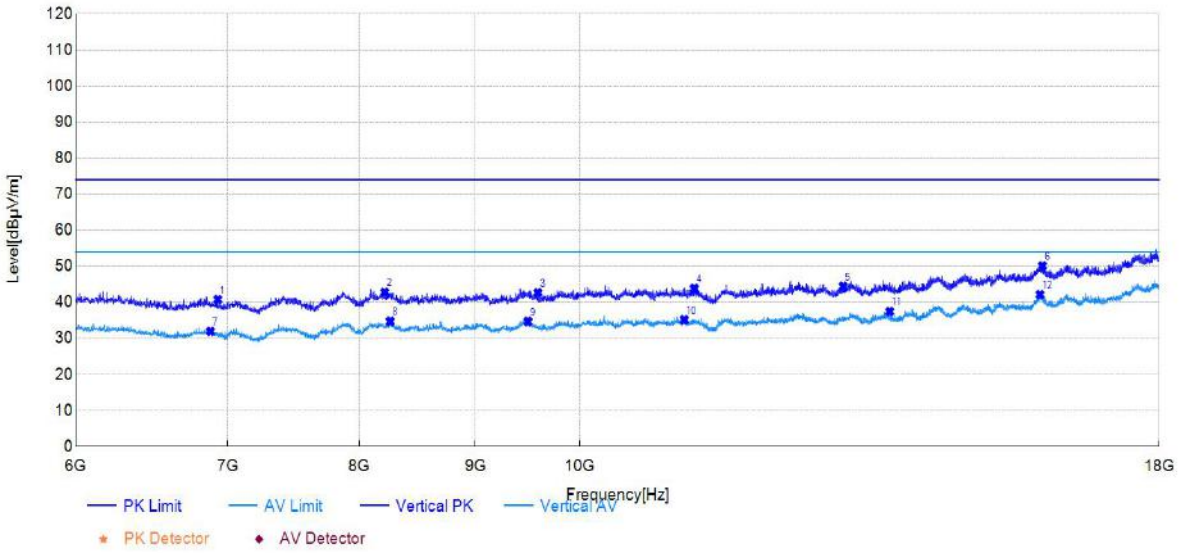
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	7006.50	45.04	40.22	-4.82	74.00	33.78	100	303	PK	Horizontal	PASS
2	8479.50	43.69	42.21	-1.48	74.00	31.79	150	63	PK	Horizontal	PASS
3	10062.00	42.41	42.37	-0.04	74.00	31.63	150	5	PK	Horizontal	PASS
4	12202.50	42.21	43.97	1.76	74.00	30.03	150	143	PK	Horizontal	PASS
5	14397.00	41.53	46.68	5.15	74.00	27.32	150	268	PK	Horizontal	PASS
6	16002.00	40.70	50.45	9.75	74.00	23.55	150	0	PK	Horizontal	PASS
7	7062.00	36.21	31.75	-4.46	54.00	22.25	150	196	AV	Horizontal	PASS
8	8443.50	35.05	33.79	-1.26	54.00	20.21	150	257	AV	Horizontal	PASS
9	10050.00	34.75	34.71	-0.04	54.00	19.29	150	162	AV	Horizontal	PASS
10	12256.50	34.39	36.05	1.66	54.00	17.95	150	1	AV	Horizontal	PASS
11	14308.50	32.65	37.42	4.77	54.00	16.58	150	75	AV	Horizontal	PASS
12	15972.00	32.29	42.07	9.78	54.00	11.93	150	143	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	00	Test Engineer:	Stone Zhang



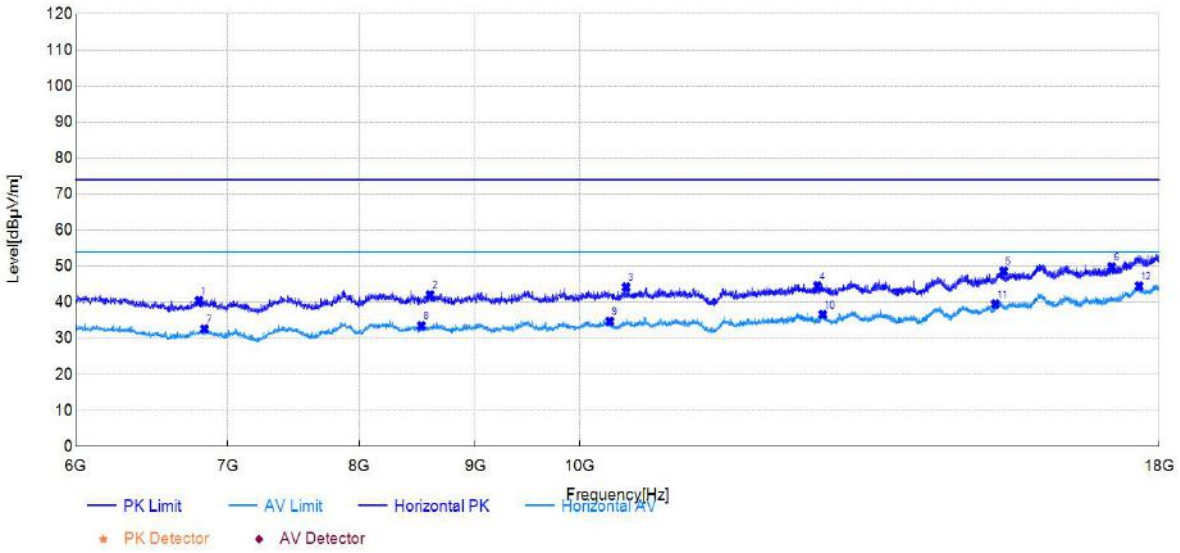
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6931.50	45.24	40.75	-4.49	74.00	33.25	150	199	PK	Vertical	PASS
2	8208.00	44.22	42.79	-1.43	74.00	31.21	100	0	PK	Vertical	PASS
3	9586.50	42.77	42.68	-0.09	74.00	31.32	100	20	PK	Vertical	PASS
4	11235.00	42.78	43.82	1.04	74.00	30.18	150	106	PK	Vertical	PASS
5	13062.00	42.01	44.41	2.40	74.00	29.59	150	155	PK	Vertical	PASS
6	15987.00	40.80	50.08	9.28	74.00	23.92	100	39	PK	Vertical	PASS
7	6879.00	36.37	31.94	-4.43	54.00	22.06	150	57	AV	Vertical	PASS
8	8254.50	36.04	34.73	-1.31	54.00	19.27	100	1	AV	Vertical	PASS
9	9490.50	34.69	34.67	-0.02	54.00	19.33	150	26	AV	Vertical	PASS
10	11119.50	34.27	35.13	0.86	54.00	18.87	100	177	AV	Vertical	PASS
11	13693.50	34.20	37.44	3.24	54.00	16.56	100	134	AV	Vertical	PASS
12	15949.50	32.85	42.14	9.29	54.00	11.86	100	130	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	39	Test Engineer:	Stone Zhang



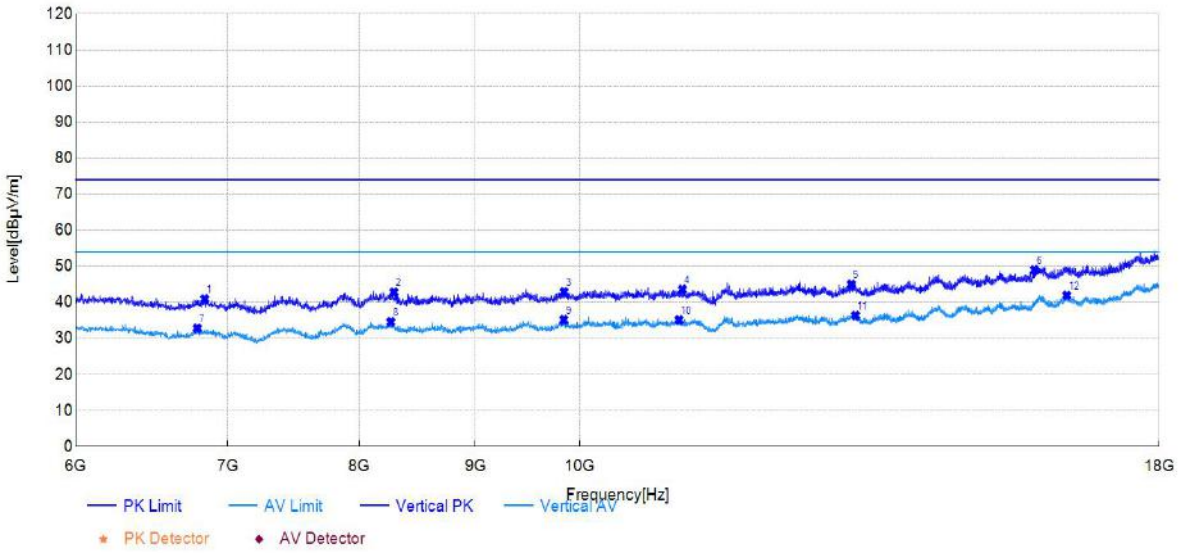
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6801.00	45.38	40.47	-4.91	74.00	33.53	150	360	PK	Horizontal	PASS
2	8593.50	43.37	42.07	-1.30	74.00	31.93	150	192	PK	Horizontal	PASS
3	10483.50	43.44	44.19	0.75	74.00	29.81	150	1	PK	Horizontal	PASS
4	12726.00	42.88	44.52	1.64	74.00	29.48	100	89	PK	Horizontal	PASS
5	15372.00	41.64	48.64	7.00	74.00	25.36	100	46	PK	Horizontal	PASS
6	17151.00	39.29	49.82	10.53	74.00	24.18	100	85	PK	Horizontal	PASS
7	6837.00	37.34	32.62	-4.72	54.00	21.38	150	131	AV	Horizontal	PASS
8	8518.50	35.07	33.52	-1.55	54.00	20.48	150	126	AV	Horizontal	PASS
9	10311.00	34.65	34.71	0.06	54.00	19.29	100	306	AV	Horizontal	PASS
10	12796.50	34.54	36.61	2.07	54.00	17.39	150	352	AV	Horizontal	PASS
11	15243.00	33.20	39.51	6.31	54.00	14.49	100	256	AV	Horizontal	PASS
12	17634.00	30.72	44.49	13.77	54.00	9.51	150	3	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	39	Test Engineer:	Stone Zhang



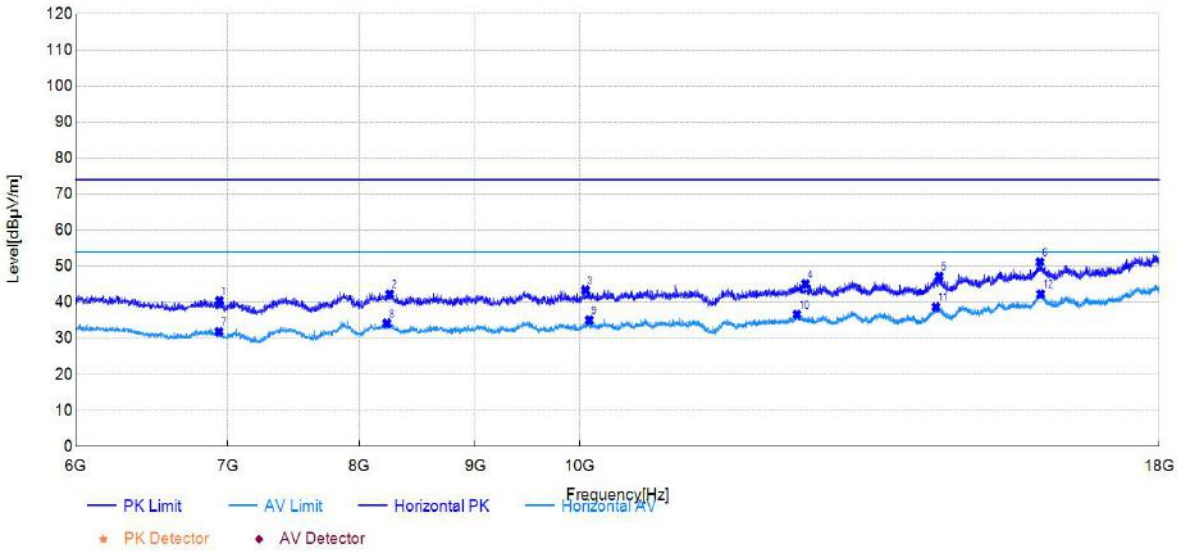
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6838.50	45.52	40.91	-4.61	74.00	33.09	100	130	PK	Vertical	PASS
2	8284.50	44.03	42.81	-1.22	74.00	31.19	100	314	PK	Vertical	PASS
3	9844.50	42.89	42.92	0.03	74.00	31.08	100	214	PK	Vertical	PASS
4	11098.50	42.76	43.59	0.83	74.00	30.41	150	316	PK	Vertical	PASS
5	13171.50	42.14	44.96	2.82	74.00	29.04	150	168	PK	Vertical	PASS
6	15856.50	40.49	48.97	8.48	74.00	25.03	150	46	PK	Vertical	PASS
7	6787.50	37.70	32.81	-4.89	54.00	21.19	150	257	AV	Vertical	PASS
8	8259.00	35.85	34.56	-1.29	54.00	19.44	150	223	AV	Vertical	PASS
9	9841.50	35.11	35.13	0.02	54.00	18.87	150	176	AV	Vertical	PASS
10	11061.00	34.04	35.09	1.05	54.00	18.91	100	173	AV	Vertical	PASS
11	13227.00	33.60	36.34	2.74	54.00	17.66	150	34	AV	Vertical	PASS
12	16387.50	32.24	41.91	9.67	54.00	12.09	100	352	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	78	Test Engineer:	Stone Zhang



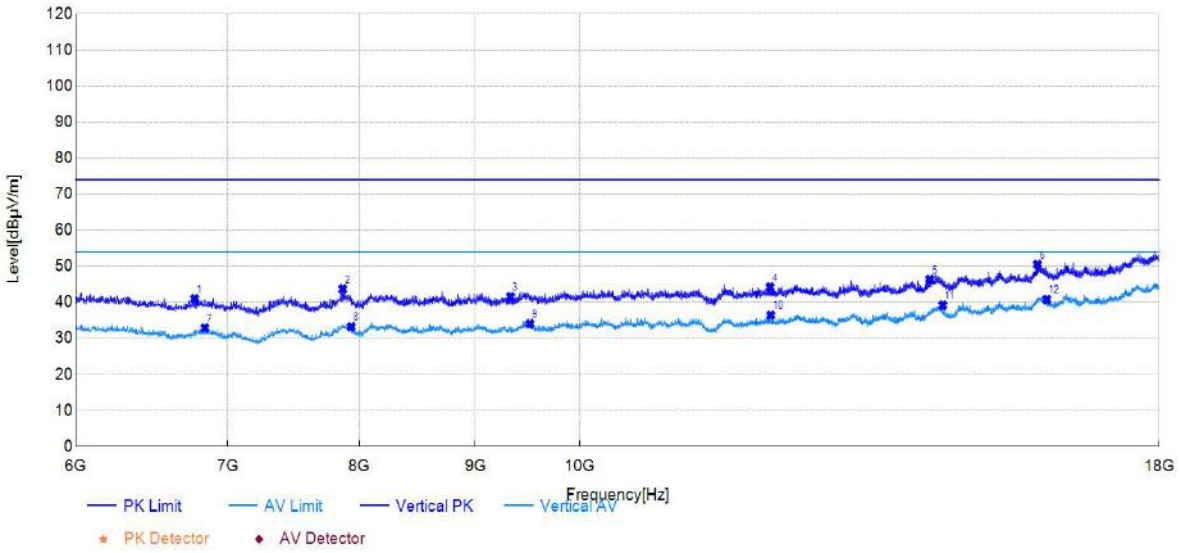
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6942.00	45.02	40.43	-4.59	74.00	33.57	100	90	PK	Horizontal	PASS
2	8250.00	43.56	42.24	-1.32	74.00	31.76	100	230	PK	Horizontal	PASS
3	10059.00	43.43	43.39	-0.04	74.00	30.61	150	307	PK	Horizontal	PASS
4	12574.50	42.79	45.09	2.30	74.00	28.91	100	268	PK	Horizontal	PASS
5	14400.00	42.02	47.19	5.17	74.00	26.81	100	280	PK	Horizontal	PASS
6	15948.00	41.38	51.16	9.78	74.00	22.84	150	49	PK	Horizontal	PASS
7	6939.00	36.42	31.84	-4.58	54.00	22.16	150	311	AV	Horizontal	PASS
8	8226.00	35.56	34.18	-1.38	54.00	19.82	150	292	AV	Horizontal	PASS
9	10099.50	35.10	35.05	-0.05	54.00	18.95	150	303	AV	Horizontal	PASS
10	12465.00	34.22	36.61	2.39	54.00	17.39	150	161	AV	Horizontal	PASS
11	14350.50	33.75	38.71	4.96	54.00	15.29	150	42	AV	Horizontal	PASS
12	15960.00	32.50	42.28	9.78	54.00	11.72	100	207	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	DH5	Test Date:	2025-08-13
Test Channel:	78	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6769.50	46.02	40.98	-5.04	74.00	33.02	100	104	PK	Vertical	PASS
2	7867.50	45.32	43.67	-1.65	74.00	30.33	100	73	PK	Vertical	PASS
3	9324.00	42.55	41.56	-0.99	74.00	32.44	100	0	PK	Vertical	PASS
4	12130.50	42.58	44.18	1.60	74.00	29.82	100	307	PK	Vertical	PASS
5	14262.00	41.42	46.35	4.93	74.00	27.65	150	341	PK	Vertical	PASS
6	15907.50	41.17	50.47	9.30	74.00	23.53	150	202	PK	Vertical	PASS
7	6840.00	37.51	32.90	-4.61	54.00	21.10	150	84	AV	Vertical	PASS
8	7935.00	34.39	33.23	-1.16	54.00	20.77	150	341	AV	Vertical	PASS
9	9510.00	34.04	34.08	0.04	54.00	19.92	100	232	AV	Vertical	PASS
10	12139.50	34.77	36.40	1.63	54.00	17.60	100	73	AV	Vertical	PASS
11	14451.00	34.05	39.16	5.11	54.00	14.84	100	318	AV	Vertical	PASS
12	16059.00	32.34	40.78	8.44	54.00	13.22	150	291	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.10. Radiated Restricted Band Edge Measurement

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.10.1. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.10.2. Test Setting

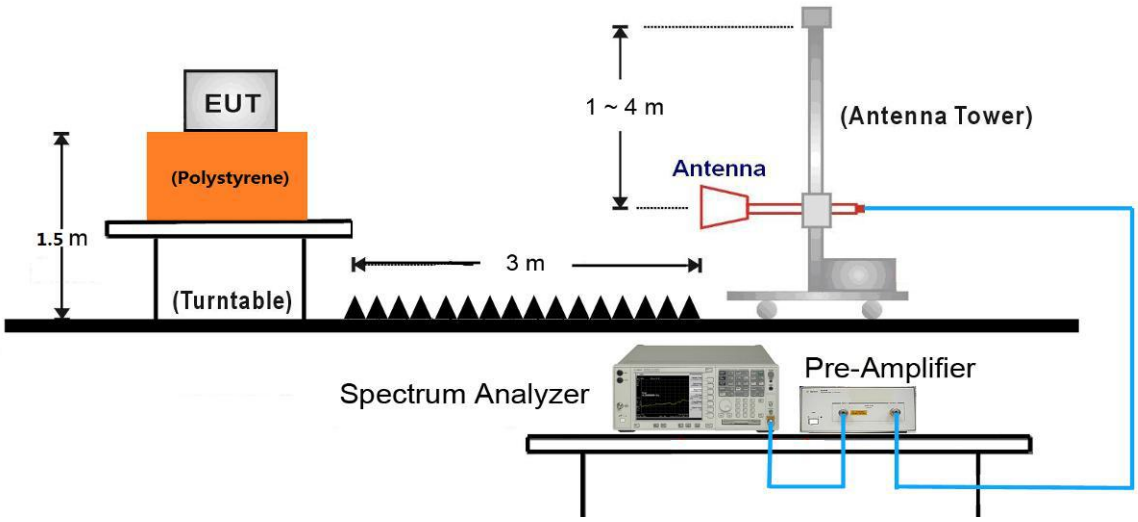
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

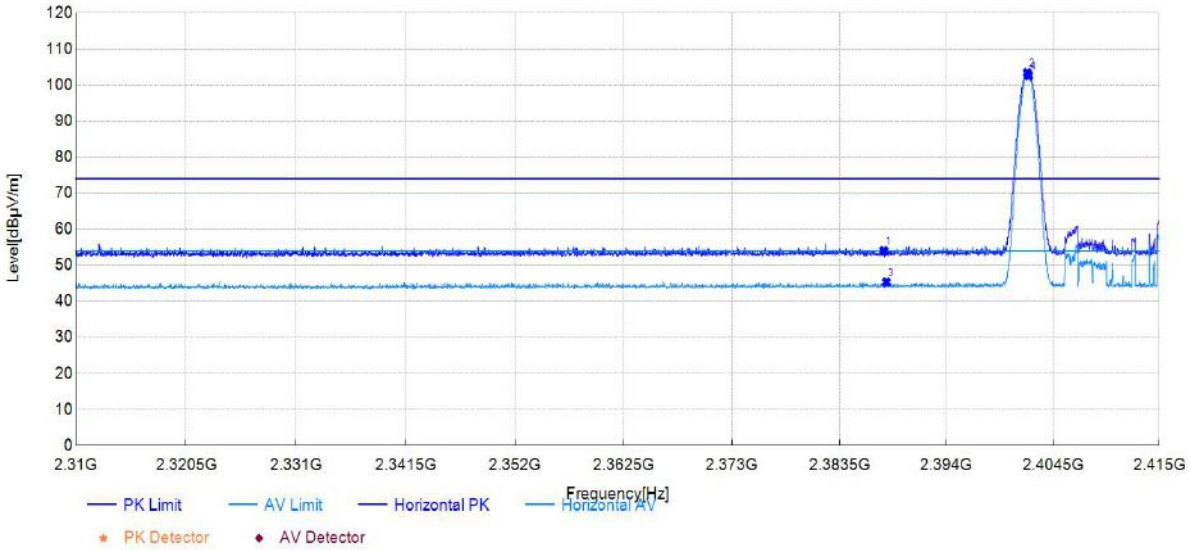
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.10.3. Test Setup



7.10.4. Test Result

Project Information			
EUT:	IVI Assy	Model:	Q000
Test Date:	2025-08-13	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang
Remark:	Transmit by DH5 at Channel 2402MHz		

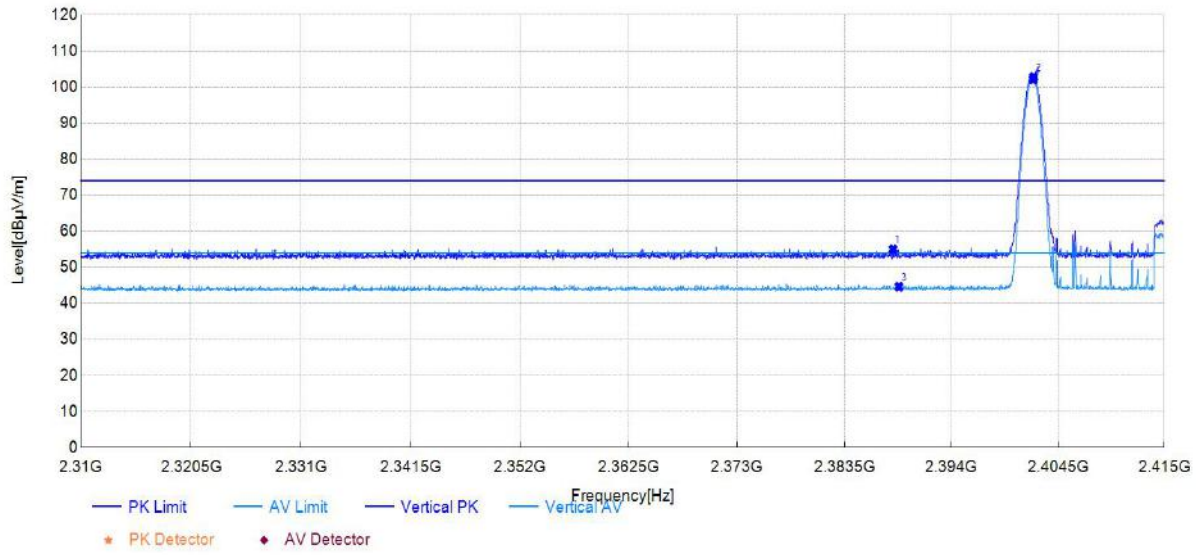


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2387.85	18.50	53.99	35.49	74.00	20.01	150	283	PK	Horizontal	PASS
2	2401.95	67.92	103.39	35.47	/	/	150	325	PK	Horizontal	PASS
3	2388.11	9.82	45.31	35.49	54.00	8.69	150	164	AV	Horizontal	PASS
4	2402.08	67.19	102.67	35.48	/	/	150	325	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



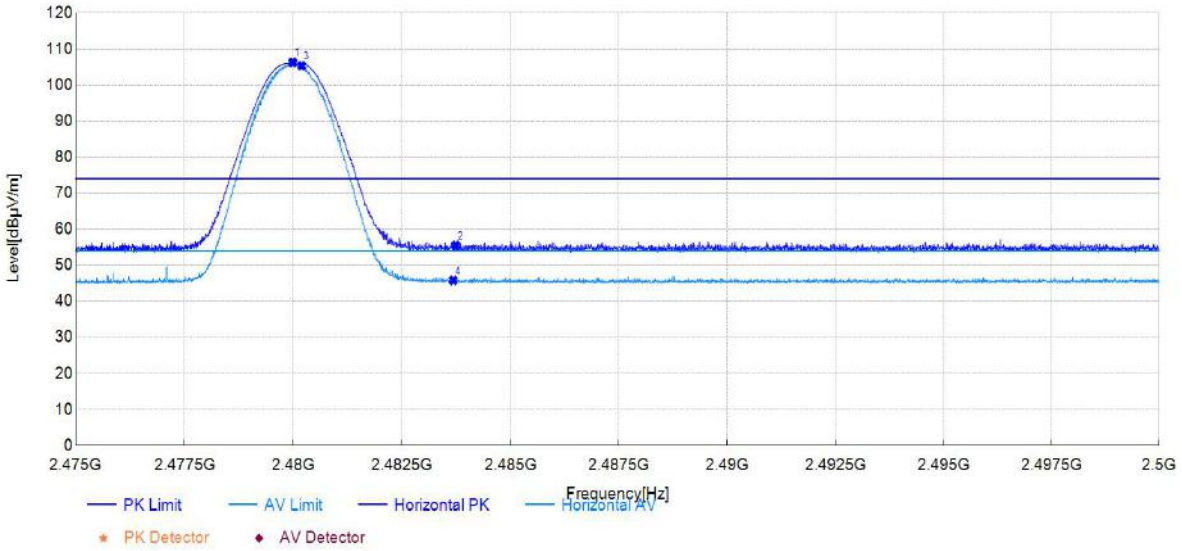
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.27	19.64	54.99	35.35	74.00	19.01	150	171	PK	Vertical	PASS
2	2402.08	67.47	102.79	35.32	/	/	150	0	PK	Vertical	PASS
3	2388.85	9.26	44.60	35.34	54.00	9.40	150	156	AV	Vertical	PASS
4	2402.03	66.79	102.11	35.32	/	/	150	0	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	IVI Assy	Model:	Q000
Test Date:	2025-08-13	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang
Remark:	Transmit by DH5 at Channel 2480MHz		

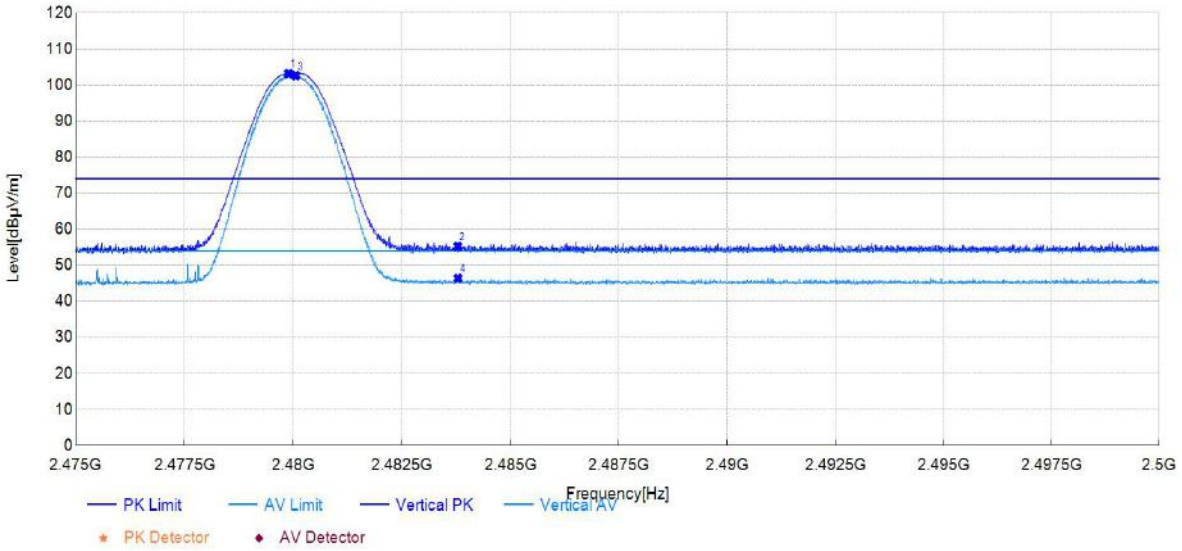


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.99	70.03	106.29	36.26	/	/	150	328	PK	Horizontal	PASS
2	2483.74	19.19	55.49	36.30	74.00	18.51	150	331	PK	Horizontal	PASS
3	2480.20	69.11	105.37	36.26	/	/	150	324	AV	Horizontal	PASS
4	2483.68	9.50	45.80	36.30	54.00	8.20	150	360	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



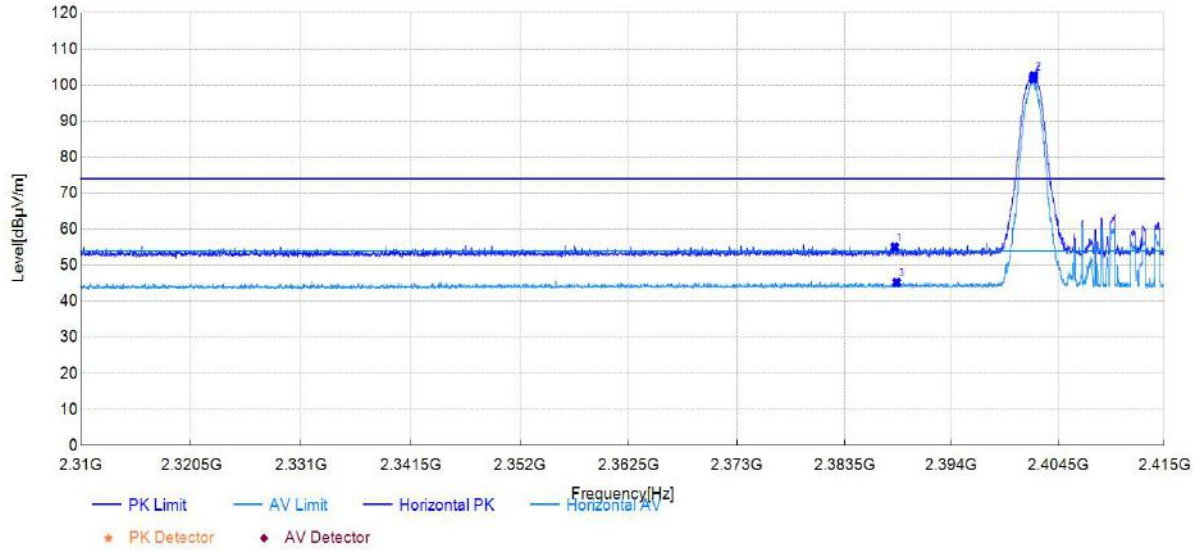
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.89	67.21	103.20	35.99	/	/	150	321	PK	Vertical	PASS
2	2483.78	19.24	55.26	36.02	74.00	18.74	150	127	PK	Vertical	PASS
3	2480.06	66.63	102.62	35.99	/	/	150	325	AV	Vertical	PASS
4	2483.79	10.38	46.40	36.02	54.00	7.60	150	102	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	IVI Assy	Model:	Q000
Test Date:	2025-08-13	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang
Remark:	Transmit by 2DH5 at Channel 2402MHz		

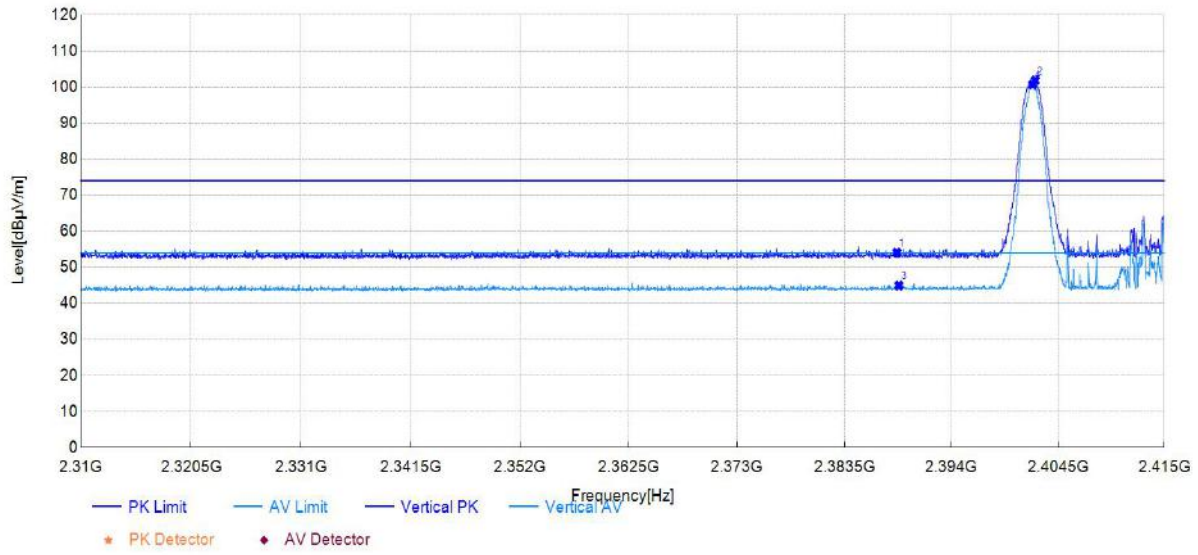


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.43	19.55	55.03	35.48	74.00	18.97	150	332	PK	Horizontal	PASS
2	2402.11	67.08	102.57	35.49	/	/	150	325	PK	Horizontal	PASS
3	2388.61	9.73	45.21	35.48	54.00	8.79	150	22	AV	Horizontal	PASS
4	2402.06	66.31	101.79	35.48	/	/	150	325	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



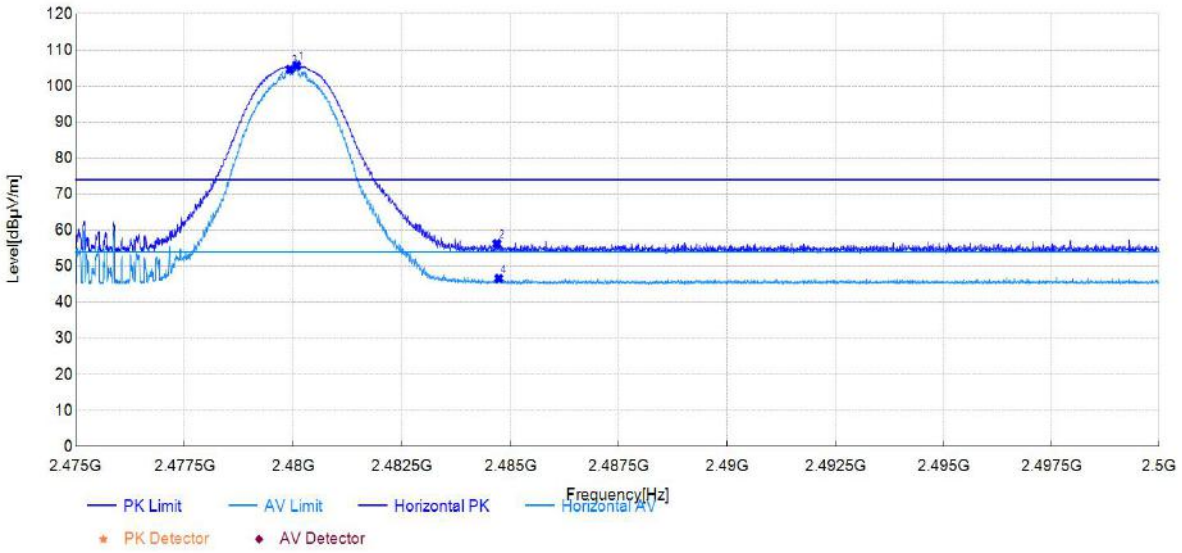
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.64	18.73	54.07	35.34	74.00	19.93	150	67	PK	Vertical	PASS
2	2402.24	66.52	101.84	35.32	/	/	150	3	PK	Vertical	PASS
3	2388.85	9.59	44.93	35.34	54.00	9.07	150	322	AV	Vertical	PASS
4	2401.98	65.41	100.73	35.32	/	/	150	360	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	IVI Assy	Model:	Q000
Test Date:	2025-08-13	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang
Remark:	Transmit by 2DH5 at Channel 2480MHz		

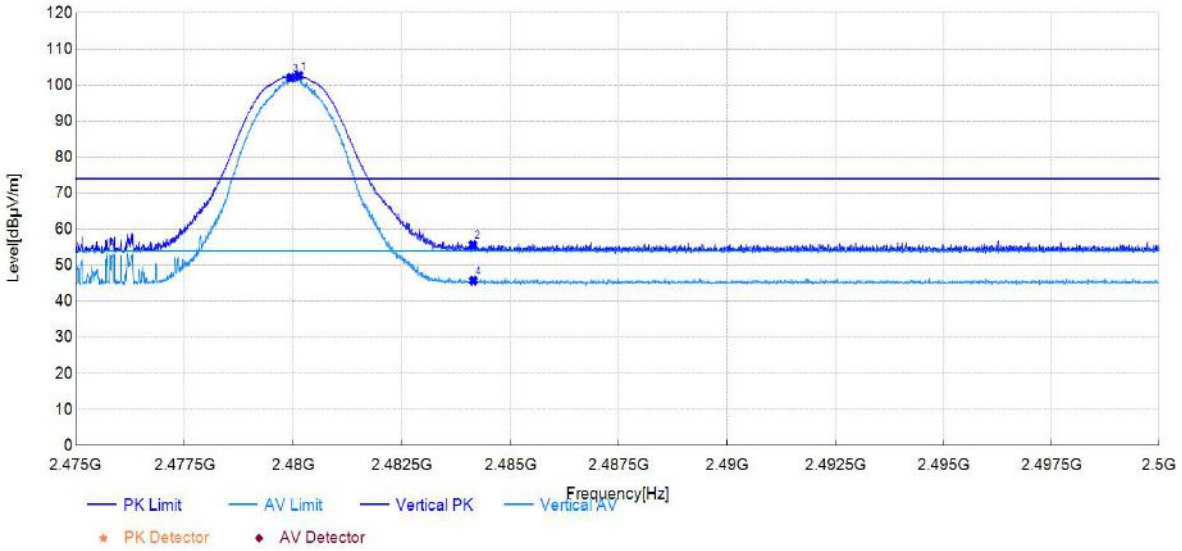


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.08	69.42	105.68	36.26	/	/	150	325	PK	Horizontal	PASS
2	2484.69	19.95	56.25	36.30	74.00	17.75	150	273	PK	Horizontal	PASS
3	2479.93	68.37	104.63	36.26	/	/	150	327	AV	Horizontal	PASS
4	2484.73	10.30	46.60	36.30	54.00	7.40	150	0	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



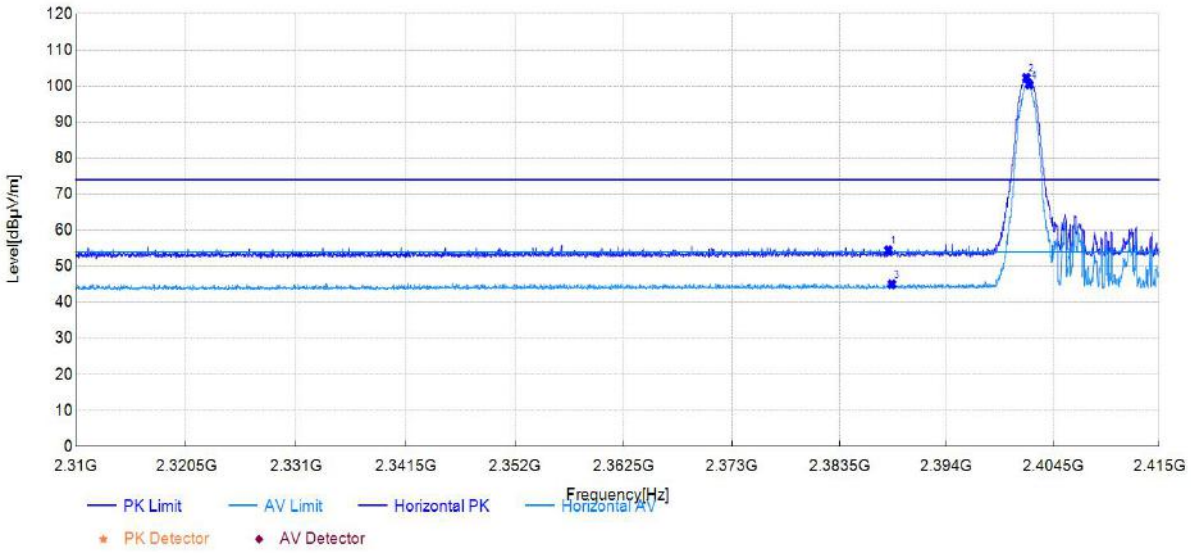
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.13	66.64	102.63	35.99	/	/	150	324	PK	Vertical	PASS
2	2484.13	19.63	55.65	36.02	74.00	18.35	150	270	PK	Vertical	PASS
3	2479.94	66.04	102.03	35.99	/	/	150	324	AV	Vertical	PASS
4	2484.15	9.71	45.73	36.02	54.00	8.27	150	360	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	IVI Assy	Model:	Q000
Test Date:	2025-08-13	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang
Remark:	Transmit by 3DH5 at Channel 2402MHz		

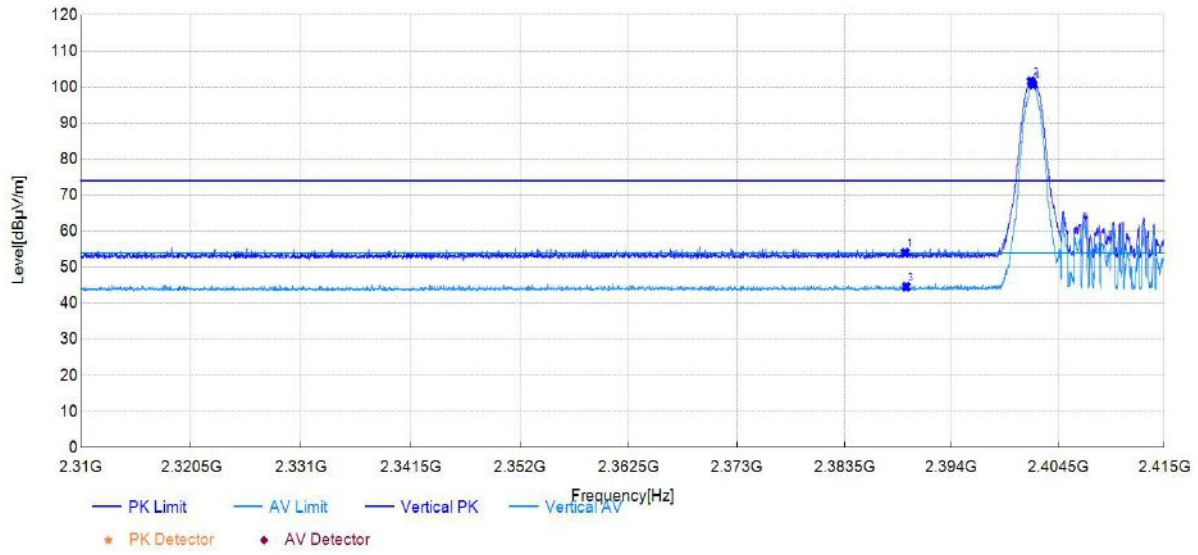


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.30	18.95	54.44	35.49	74.00	19.56	150	120	PK	Horizontal	PASS
2	2401.85	66.82	102.29	35.47	/	/	150	325	PK	Horizontal	PASS
3	2388.64	9.52	45.00	35.48	54.00	9.00	150	281	AV	Horizontal	PASS
4	2402.16	64.91	100.40	35.49	/	/	150	318	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



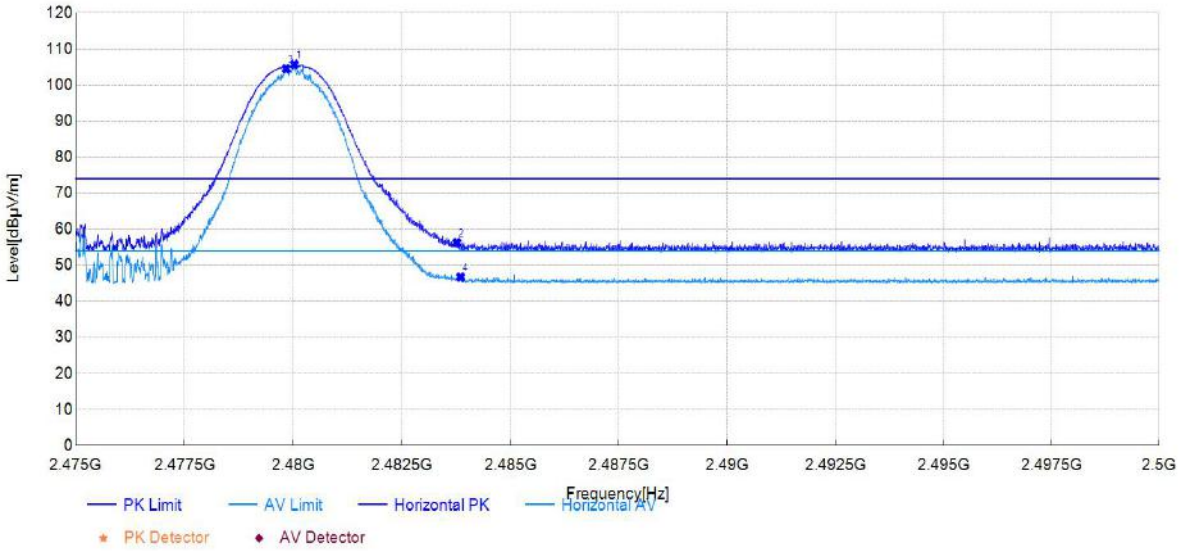
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.45	18.69	54.03	35.34	74.00	19.97	150	154	PK	Vertical	PASS
2	2401.82	66.29	101.60	35.31	/	/	150	0	PK	Vertical	PASS
3	2389.56	9.25	44.59	35.34	54.00	9.41	150	21	AV	Vertical	PASS
4	2402.03	65.36	100.68	35.32	/	/	150	17	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	IVI Assy	Model:	Q000
Test Date:	2025-08-13	Voltage:	DC13.2 V
Environment:	Temp: 22.6℃; Humi:58%	Engineer:	Stone Zhang
Remark:	Transmit by 3DH5 at Channel 2480MHz		

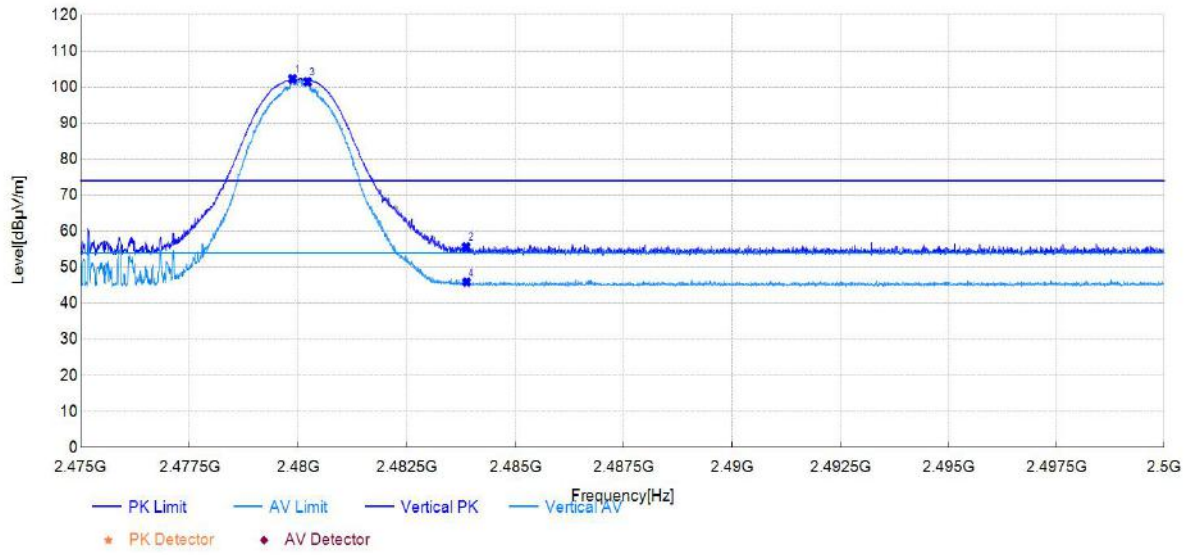


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.03	69.46	105.72	36.26	/	/	150	326	PK	Horizontal	PASS
2	2483.76	19.98	56.28	36.30	74.00	17.72	150	0	PK	Horizontal	PASS
3	2479.84	68.27	104.53	36.26	/	/	150	326	AV	Horizontal	PASS
4	2483.85	10.43	46.73	36.30	54.00	7.27	150	350	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.87	66.28	102.27	35.99	/	/	150	226	PK	Vertical	PASS
2	2483.86	19.63	55.65	36.02	74.00	18.35	150	358	PK	Vertical	PASS
3	2480.21	65.43	101.42	35.99	/	/	150	323	AV	Vertical	PASS
4	2483.88	9.84	45.86	36.02	54.00	8.14	150	193	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.11. AC Conducted Emissions Measurement

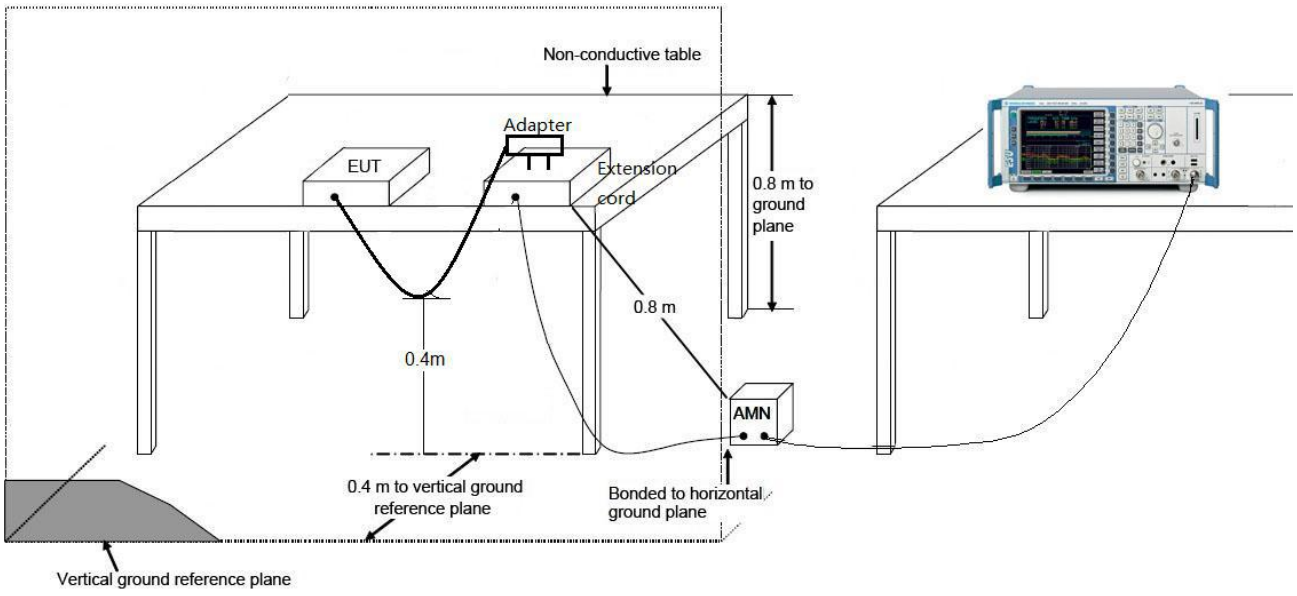
7.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.11.2. Test Setup



7.11.3. Test Result

The EUT is DC 13.2V supply, this item only for the EUT is designed to be connected to the public utility (AC) power line. Not applicable.

8. Conclusion

The data collected relate only the item(s) tested and show that the **IVI Assy** is in compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.

2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.

3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.

4. The report content is only applicable to the tested sample(s) this time.

5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.

6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.

7. This report is issued by the following laboratory premises:

   No.8 Ningyun Rd.，Xinwu District Wuxi，Jiangsu 214000 China

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