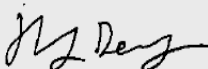
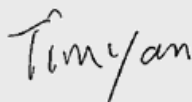


Test report No: 4920711.50

TEST REPORT

Radio Spectrum Matters (RF)

Identification of item tested	WIFI module
Trademark	HISENSE
Model and /or type reference	MWB414S.05
FCC ID	2A4A3-WASHER2024
Features	3.3 Vdc, 150 mA
Applicant's name / address	Hisense Ronshen (Guangdong) Refrigerator Co., Ltd. No. 8 Ronggang Road, Ronggui, Shunde, Foshan 528303, China
Test method requested, standard	FCC CFR Title 47 Part15 Subpart C Section 15.247; KDB558074 D01v05r02;
Verdict Summary	COMPLIANCE
Tested by (name & signature)	Harry Deng 
Approved by (name & signature)	Tim Yan 
Date of issue	2024-07-08
Report template No	TRF_EMCC 2017-06- FCC_Part15C_247

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GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. This report will not be used for social proof function in China market.

UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in EN 55016-4-2 (CISPR 16-4-2), EN/IEC 61000-4 series or a product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.			
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.			
Decimal separator used in this report	☐	Comma (,)	☒ Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
4920711.50	2024-07-08	First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item	WIFI module
Trademark	PHILIPS AVENT
Model / Type number	MWB414S.05
FCC ID	2A4A3-WASHER2024
Ratings	3.3 Vdc, 150 mA
Manufacturer/Factory	Qingdao Hisense Communication Co., Ltd. No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China

RF specification for 2.4 GHz Wi-Fi (base on client's declaration)

Operating frequency range(s).....	2412-2462 MHz (802.11 b/g/n HT20); 2402-2480 MHz (BLE)
Type of Modulation	802.11b:DSSS(DBPSK/DQPSK/CCK); 802.11g/n:OFDM(BPSK/QPSK/16QAM/64QAM) BLE: GFSK
Maximum RF output power (conducted)	15.83 dBm
E.I.R.P.	14.30 dBm
Antenna type.....	PCB antenna
Antenna gain.....	-1.53 dBi
Antenna Delivery.....	1TX + 1RX
Antenna technology	SISO
Number of channel.....	11

RF specification for BLE (base on client's declaration)

Operating frequency range(s).....	2402-2480 MHz
Maximum RF output power (conducted)	2.00 dBm
E.I.R.P.	0.47 dBm
Type of Modulation	GFSK
PHYs	LE 1M
Data Rate	1 Mbit/s
Antenna type.....	PCB antenna
Antenna gain.....	-1.53 dBi
Antenna Delivery.....	1TX + 1RX
Antenna technology	SISO
Number of channel.....	40

Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 3.3 V					
Mounting position.....:	☐	Battery:					
	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☒	Hand-held equipment					
	☒	Other: mounted inside end-product.					

Intended use of the Equipment Under Test (EUT)
The apparatus as supplied for the test is WIFI module which intended for residential use, the product contains electronic circuitry

Copy of marking plate:
No provide.

1.2 Test data

Test Location	DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China FCC Designation Number: CN1324; ISED CAB identifier: CN0130
Test sample number	4920711-2 (conducted sample), 4920711-3 (radiated sample),
Date of receipt of test item	2024-06-12
Date (s) of performance of tests	2024-06-12 to 2024-06-25

1.3 The environment(s) in which the EUT is intended to be used

The equipment under test (EUT) is intended to be used in the following environment(s):

☒	Residential (domestic) environment.
☒	Commercial and light-industrial environment.
☐	Industrial environment.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Operating mode	Operating mode description	Used for methods	
		Conducted	Radiated
1	Transmitting at 802.11b mode	☒	☒
2	Transmitting at 802.11g mode	☒	☒
3	Transmitting at 802.11n20 mode	☒	☒
4		☐	☐
Supplemental information: ---			

2.2 Port(s) of the EUT

Port name and description	Connected to / Termination	Cable		
		Length used during test [m]	Attached during test	Shielded
---	---	---	☐	☐
			☐	☐
			☐	☐
Supplemental information: ---				

2.3 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment / unit / software	Type / Version	Manufacturer	Supplied by
Laptop	Latitude 5488	DELL	DEKRA
Supplemental information: ---			

2.4 Test Configuration / Block diagram used for tests

Refer to Annex 3.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
KDB 558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

3.3 Overview of results

FCC measurement			
Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	FCC 15.207	PASS	---
Emissions in non-restricted frequency bands	FCC 15.247(d), FCC 15.209	PASS	---
Emissions in restricted frequency bands	FCC 15.247(b)(3)	PASS	---
Duty cycle	ANSI C63.10:2013	PASS	---
Band Edge	FCC 15.247(d)	PASS	---
Fundamental emission output power	FCC 15.247(d), FCC 15.209	PASS	---
DTS Bandwidth	FCC 15.247(a)(2)	PASS	---
Power Spectral Density	FCC 15.247(e)	PASS	---
Antenna Requirement	FCC 15.203	PASS	---
Supplementary information: ---			

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

3.4 Measurement procedure

The EUT was controlled by laptop through the serial port. After connected, run the software “AmebaZ2_mptool_1V3” supplied by manufacturer to control the EUT work in required test mode as below table.

Mode	Frequency (MHz)	Power setting
WLAN b	2412	80
	2437	80
	2462	80
WLAN g	2412	88
	2437	88
	2462	88
WLAN n HT20	2412	88
	2437	88
	2462	88

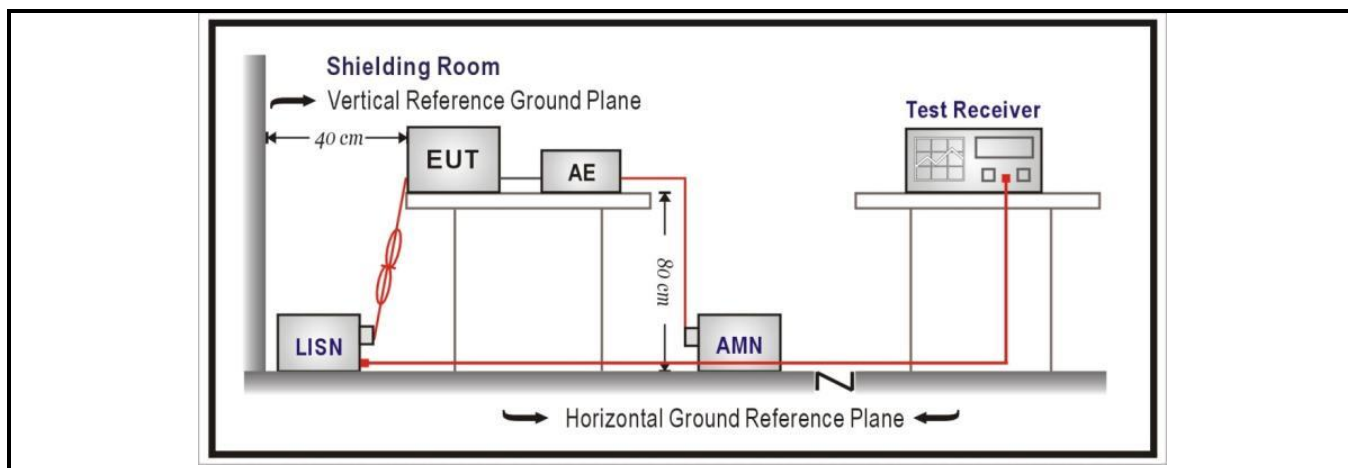
4 TRANSMITTER TEST RESULTS

4.1 AC Power Line Conducted Emission	VERDICT: PASS
---	----------------------

Limits

FCC Part 15 Subpart C Paragraph 15.207				
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾	Limit: AV [dB(μV) ¹⁾	IF BW	Detector(s)
0.15 - 0.50	66 - 56 ²⁾	56 - 46 ²⁾	9 KHz	QP, AV
0.50 - 5.0	56	46	9 KHz	QP, AV
5.0 - 30	60	50	9 KHz	QP, AV
¹⁾ At the transition frequency, the lower limit applies.				
²⁾ The limit decreases linearly with the logarithm of the frequency.				

Test Configuration



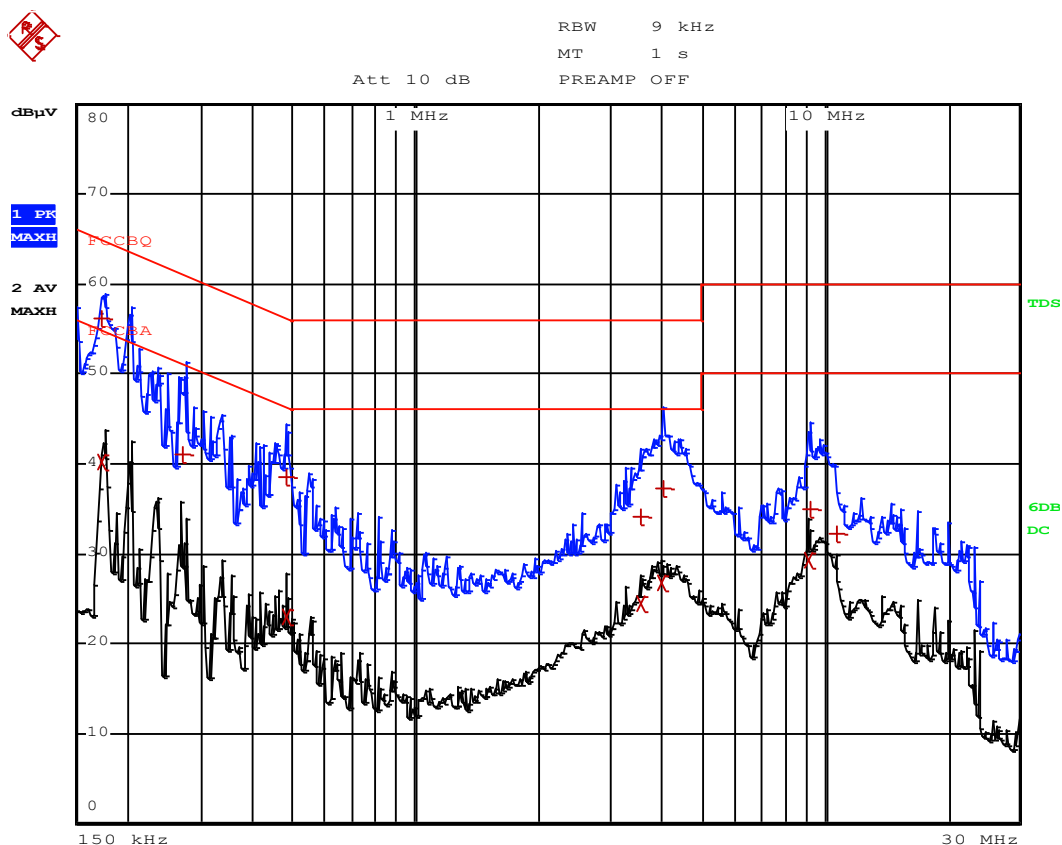
Performed measurements

Port under test			Terminal							
☒	AC mains input power		☒	N	☒	L1	☐	L2	☐	L3
☐	DC input power		☐	Positive (+)			☐	Negative (-)		
Test method applied			☒	Artificial mains network						
			☐	Voltage probe						
Test setup			☒	Table top	☐	Artificial hand applied				
			☐	Floor standing	☐	Other:				
			Refer to the Annex 2 for test setup photo(s).							
Operating mode(s) used			Mode 1, Mode 2, Mode 3							
Envirment condition (temperature; humidiry)			23.0 °C; 50.0 %							
Remark			---							

Model	MWB414S.05
Operation Mode	Mode 1 (worst case)
Test voltage	120 Vac, 60 Hz (worst case)

Results

Live



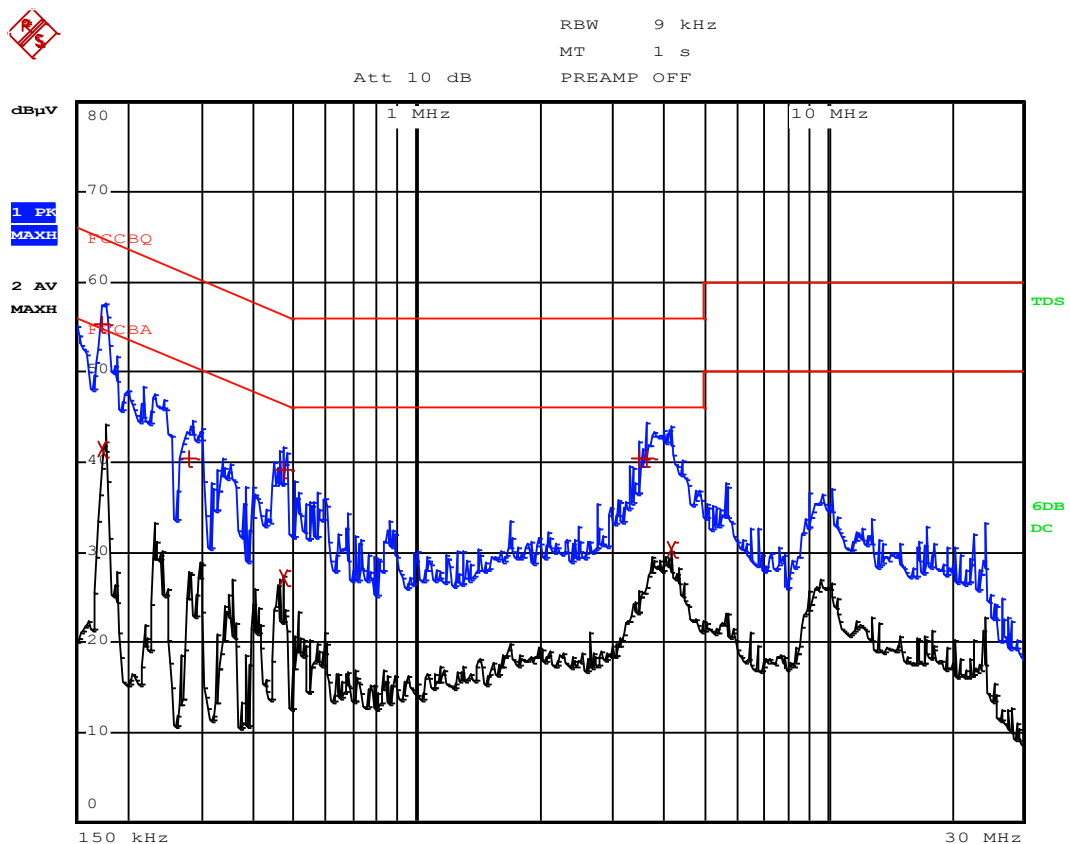
EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCCBQ		
Trace2:	FCCBA		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	174 kHz	56.10	-8.66
2 Average	174 kHz	40.15	-14.60
1 Quasi Peak	482 kHz	38.58	-17.71
1 Quasi Peak	4.038 MHz	37.28	-18.72
2 Average	3.99 MHz	26.79	-19.20
1 Quasi Peak	274 kHz	41.08	-19.91

Remarks:

- 1) Level (final measurement) = received value + transducer (Lisn+cable)
- 2) Delta = Level – Limit

No other significant emissions were measured at the frequency range of interest employing both the QP and AV detectors.

Neutral



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCCBQ		
Trace2:	FCCBA		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	174 kHz	55.38	-9.38
2 Average	174 kHz	41.40	-13.36
1 Quasi Peak	3.482 MHz	40.49	-15.50
1 Quasi Peak	3.63 MHz	40.38	-15.61
2 Average	4.17 MHz	30.31	-15.68
1 Quasi Peak	470 kHz	39.11	-17.39

Remarks:

- 1) Level (final measurement) = received value + transducer (Lisn+cable)
- 2) Delta = Level – Limit

No other significant emissions were measured at the frequency range of interest employing both the QP and AV detectors.

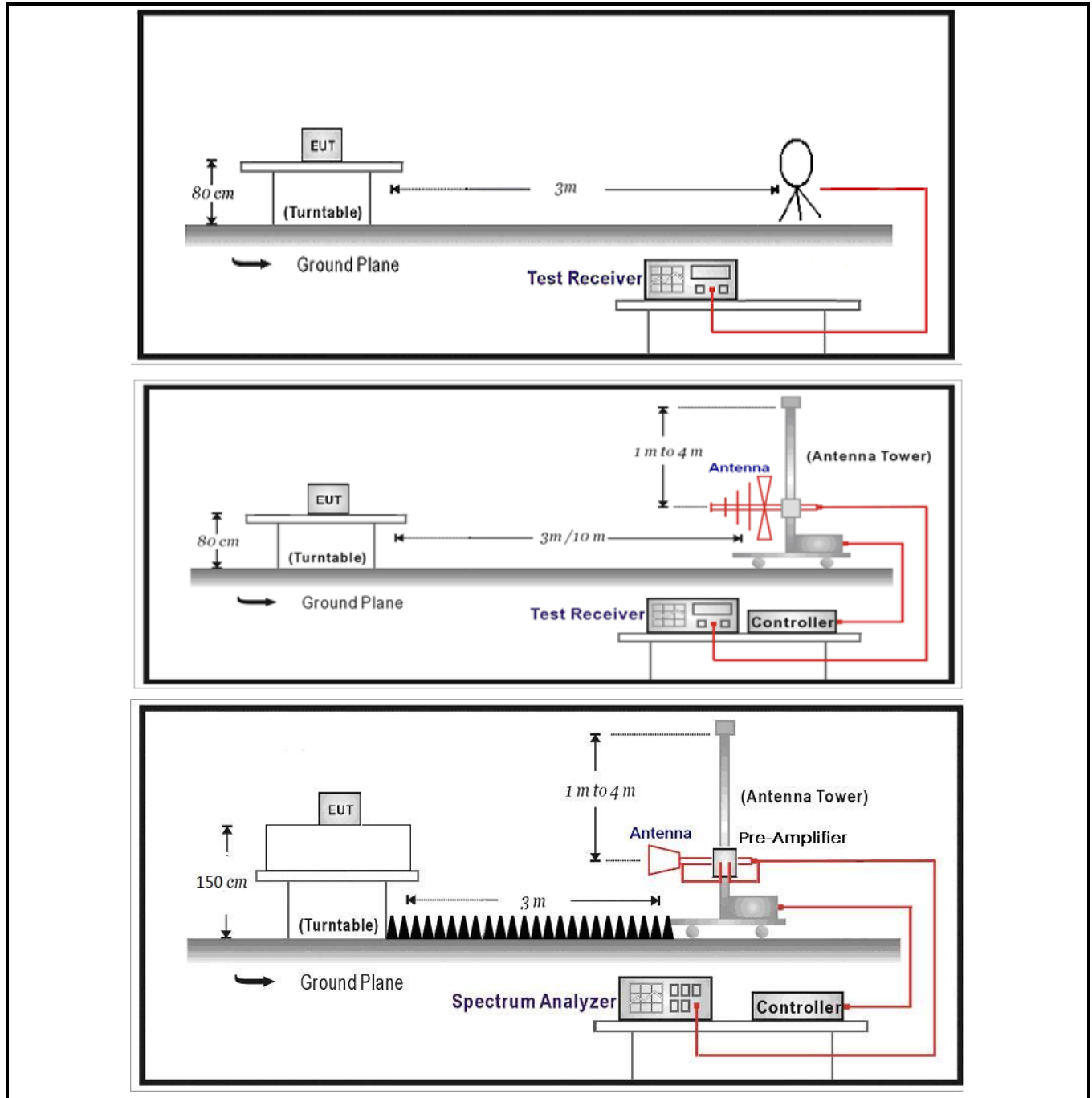
4.2	Emissions in non-restricted frequency bands	VERDICT: PASS
------------	--	----------------------

Emissions Limit 15.209(a)			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration



Performed measurements

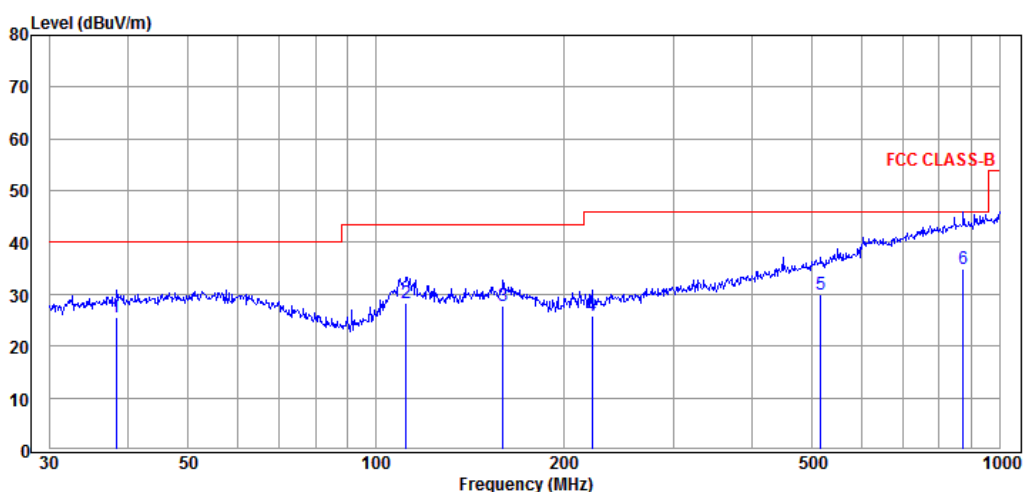
Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.	

Results of 30 – 1000 MHz

Model	MWB414S.05
Operation Mode	Mode 1
Test voltage	120 Vac, 60 Hz

Results

Horizontal



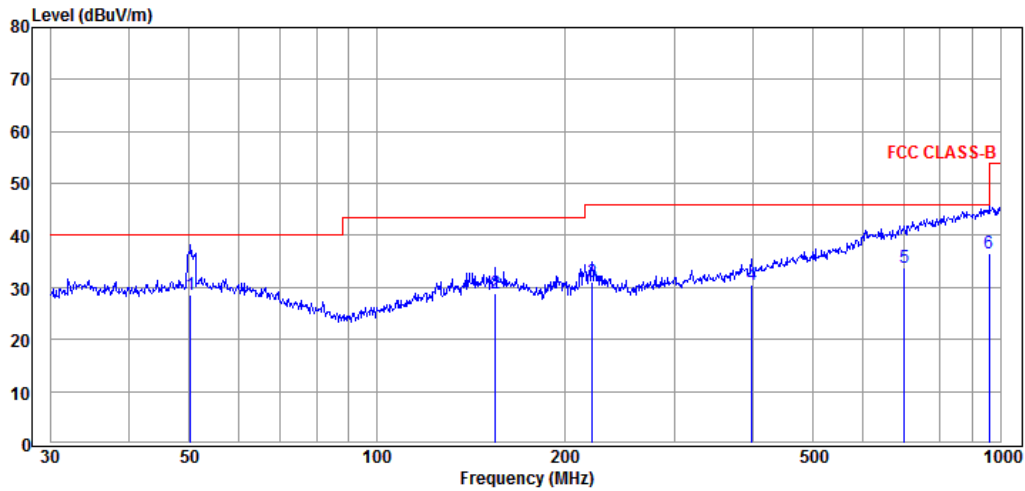
Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
38.35	5.96	19.72	25.68	40.00	14.32
111.74	10.56	17.68	28.24	43.50	15.26
159.78	6.64	21.14	27.78	43.50	15.72
222.17	8.21	17.63	25.84	46.00	20.16
517.25	2.92	27.06	29.98	46.00	16.02
875.25	1.27	33.57	34.84	46.00	11.16

Remarks:

- 1) C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
50.23	8.10	20.55	28.65	40.00	11.35
154.82	7.65	21.10	28.75	43.50	14.75
221.39	13.35	17.62	30.97	46.00	15.03
399.03	6.27	24.16	30.43	46.00	15.57
701.76	3.20	30.64	33.84	46.00	12.16
958.79	2.50	34.20	36.70	46.00	9.30

Remarks:

- 1) C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

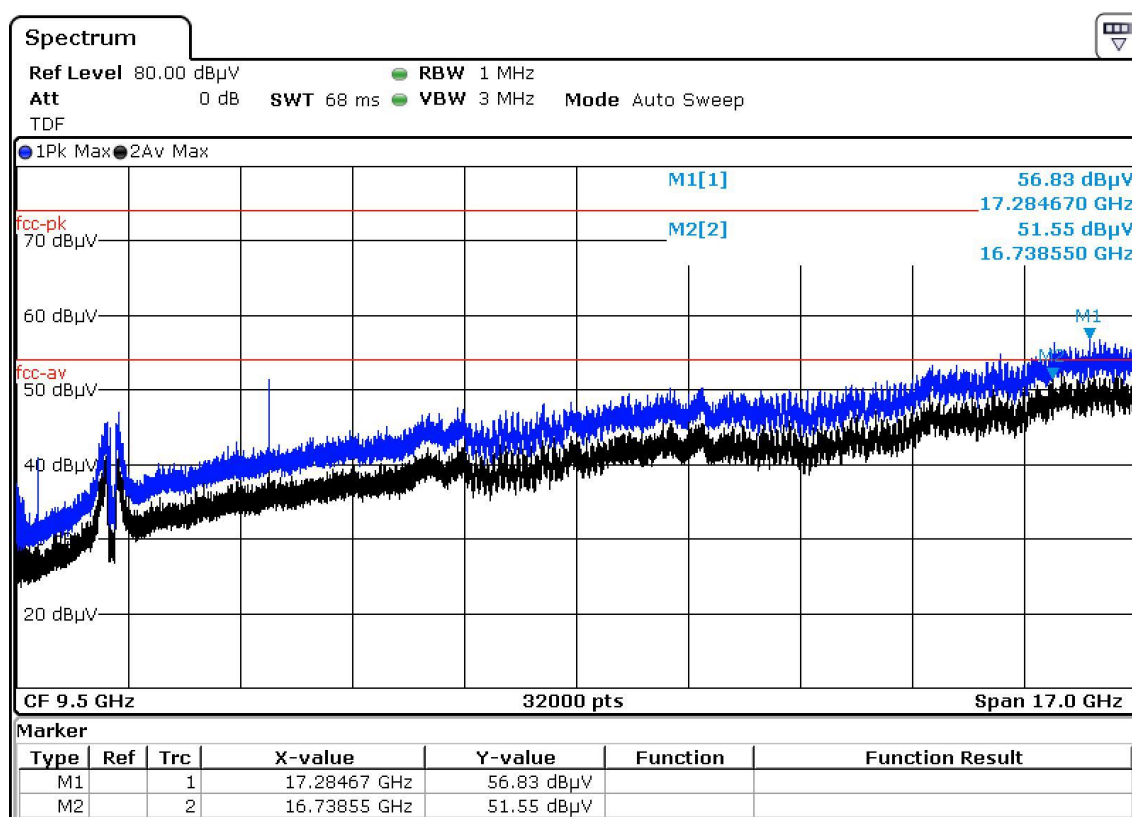
No other significant emissions were measured at the frequency range of interest employing the QP detectors.

Results of 1 – 18 GHz

Model	MWB414S.05
Operation Mode	Mode 1 @2412 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

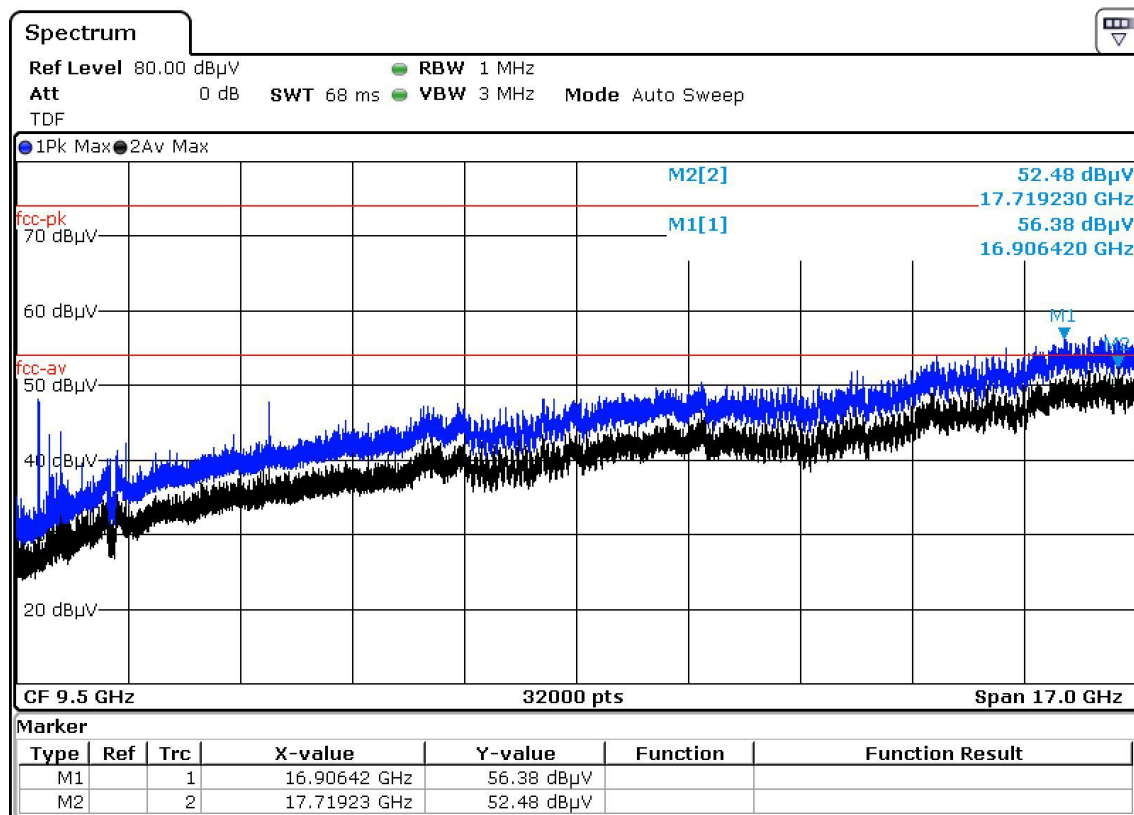


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

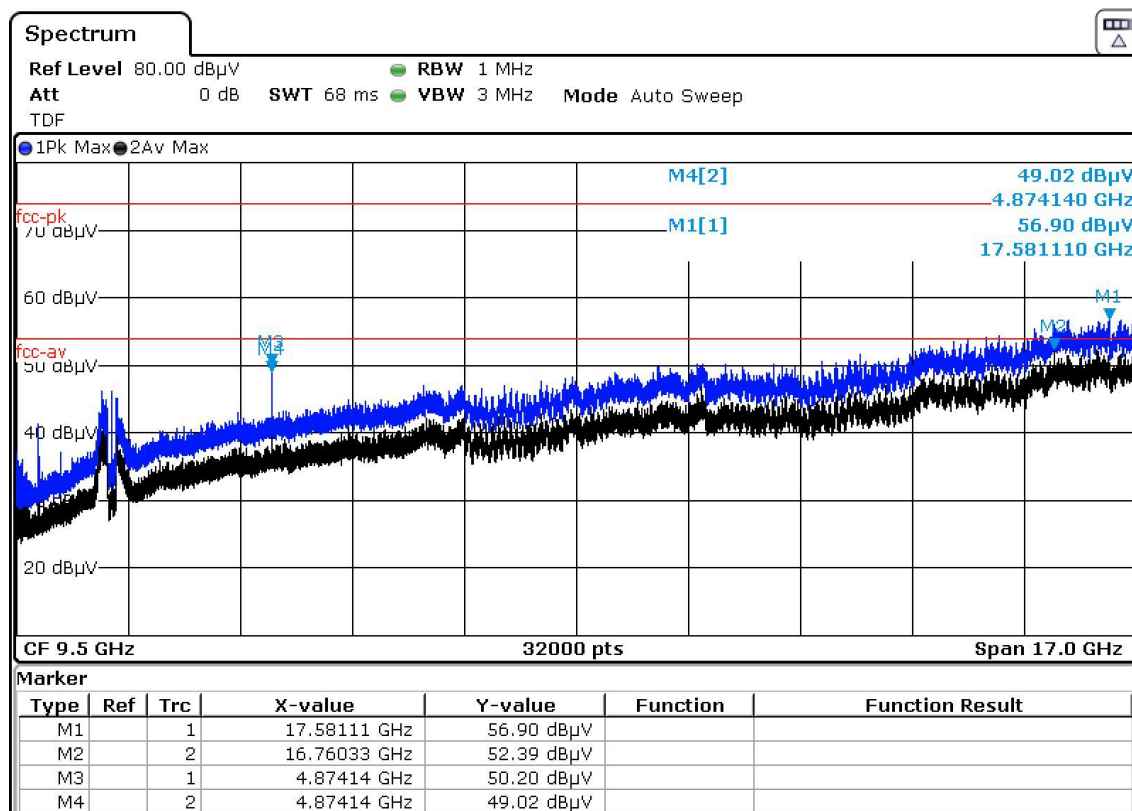
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 1 @2437 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

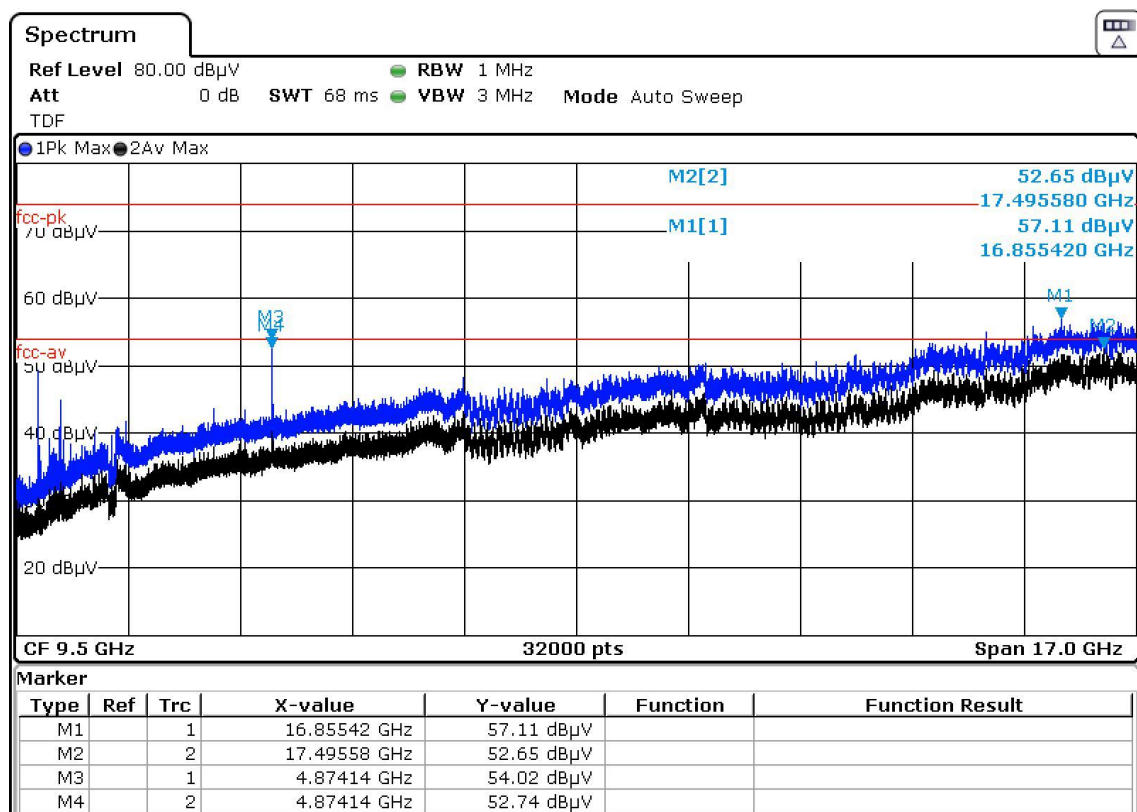


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

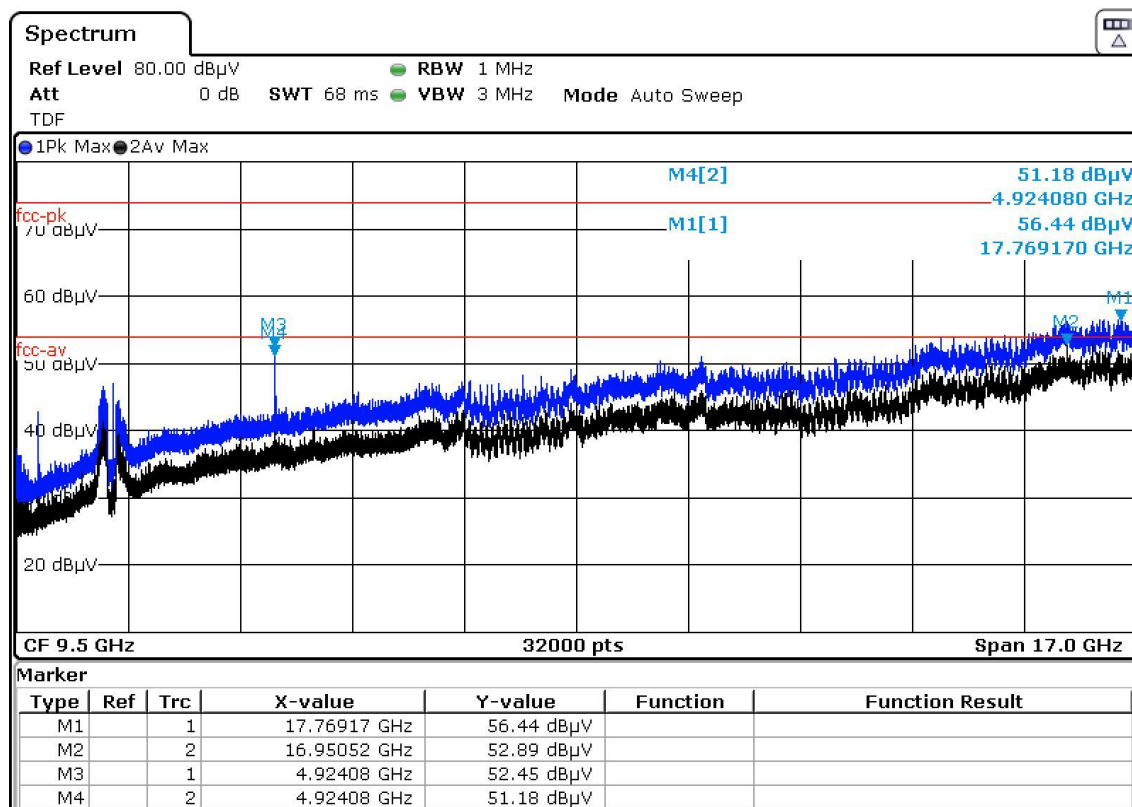
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 1 @2462 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

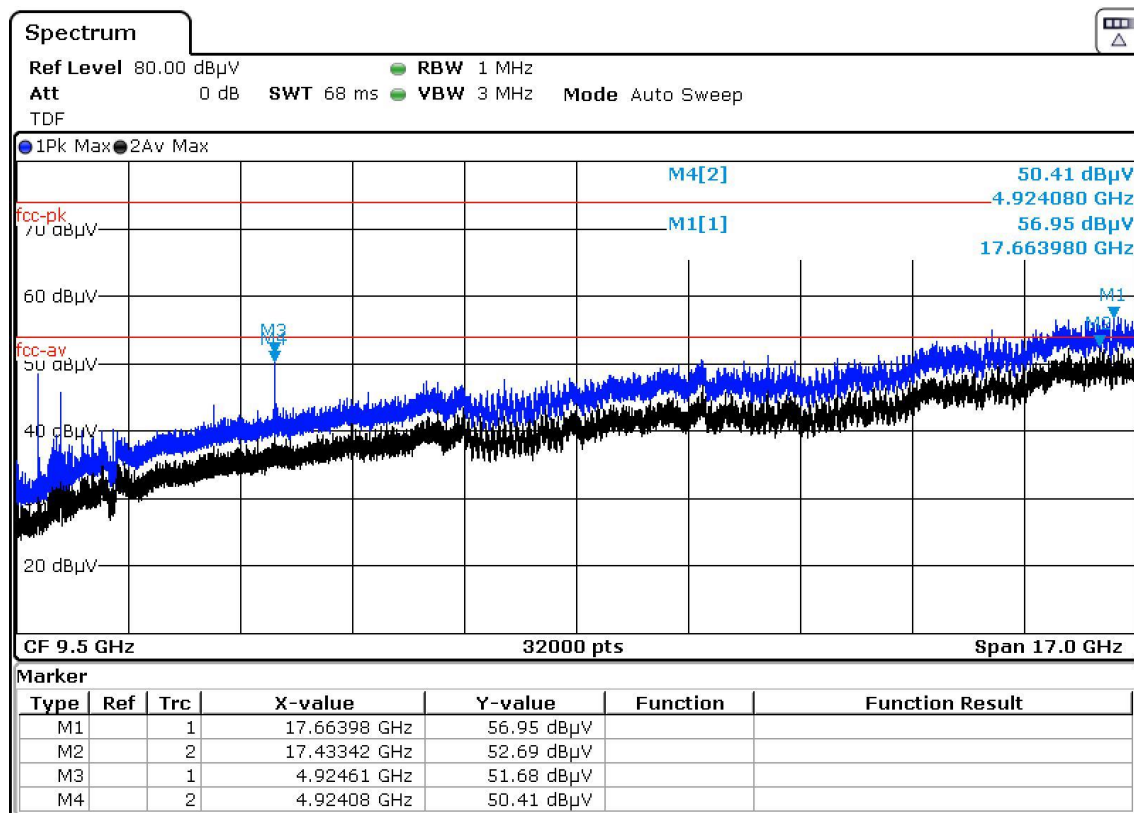


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

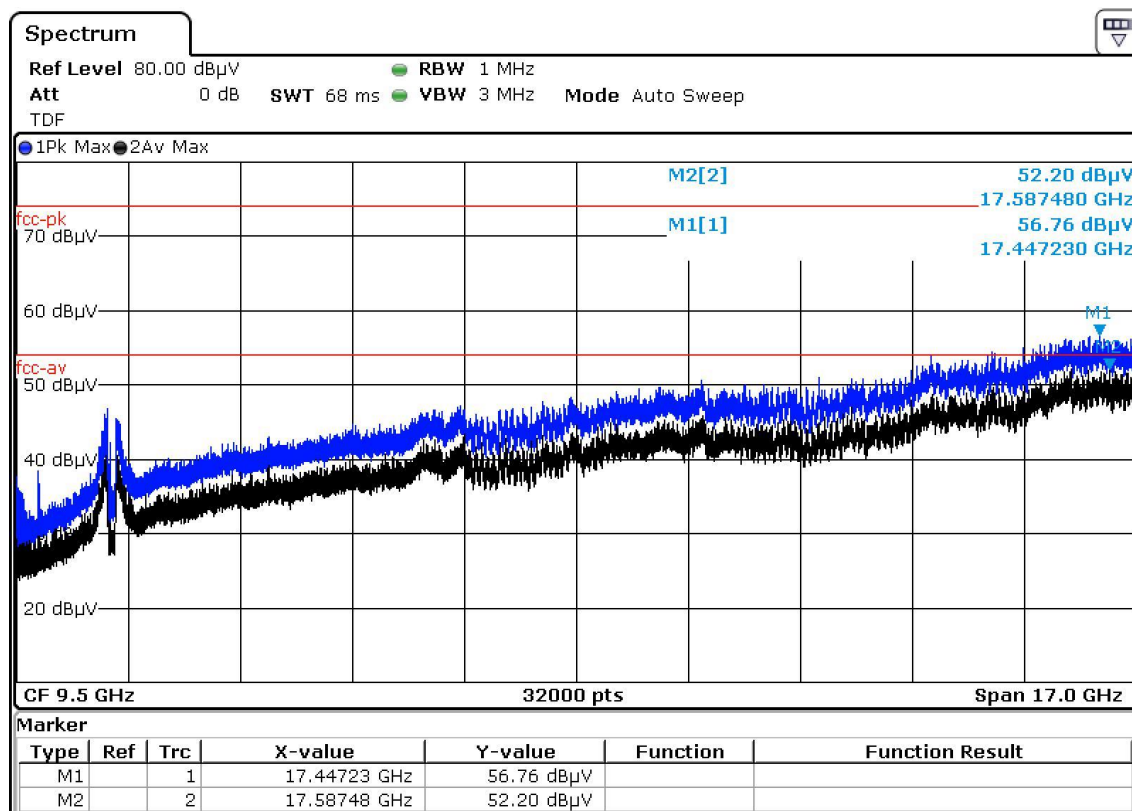
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 2 @2412 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

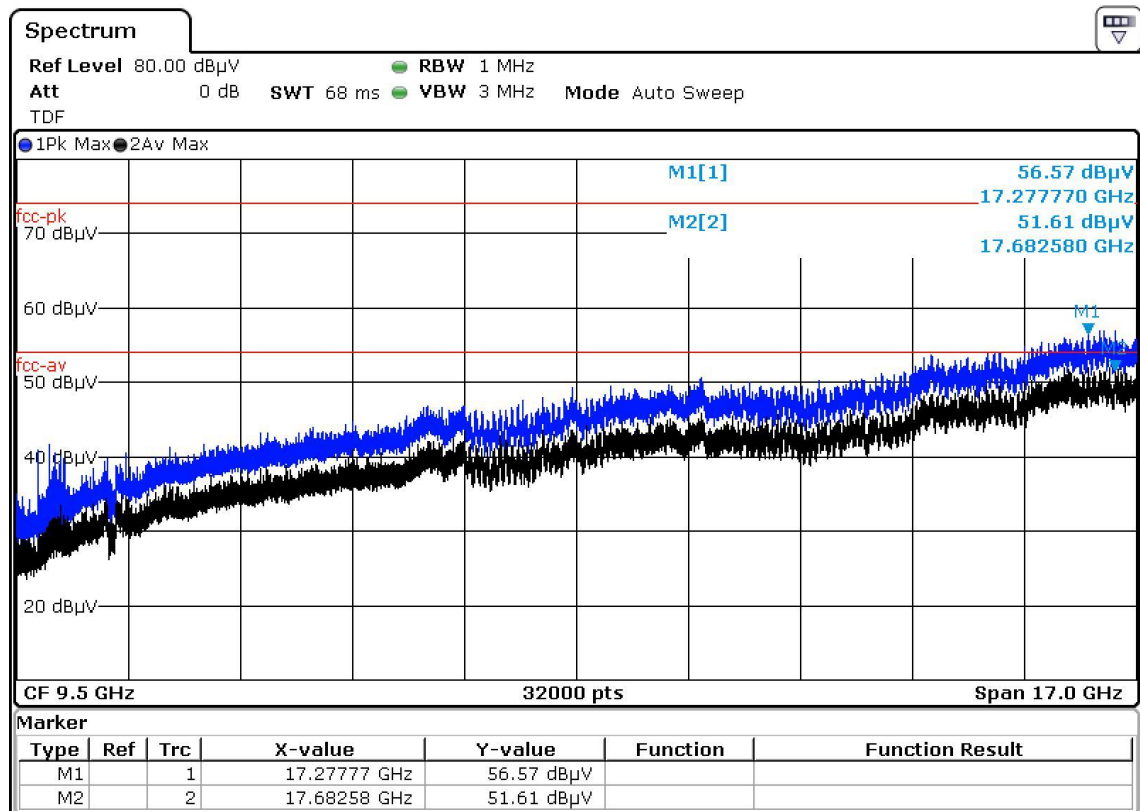


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

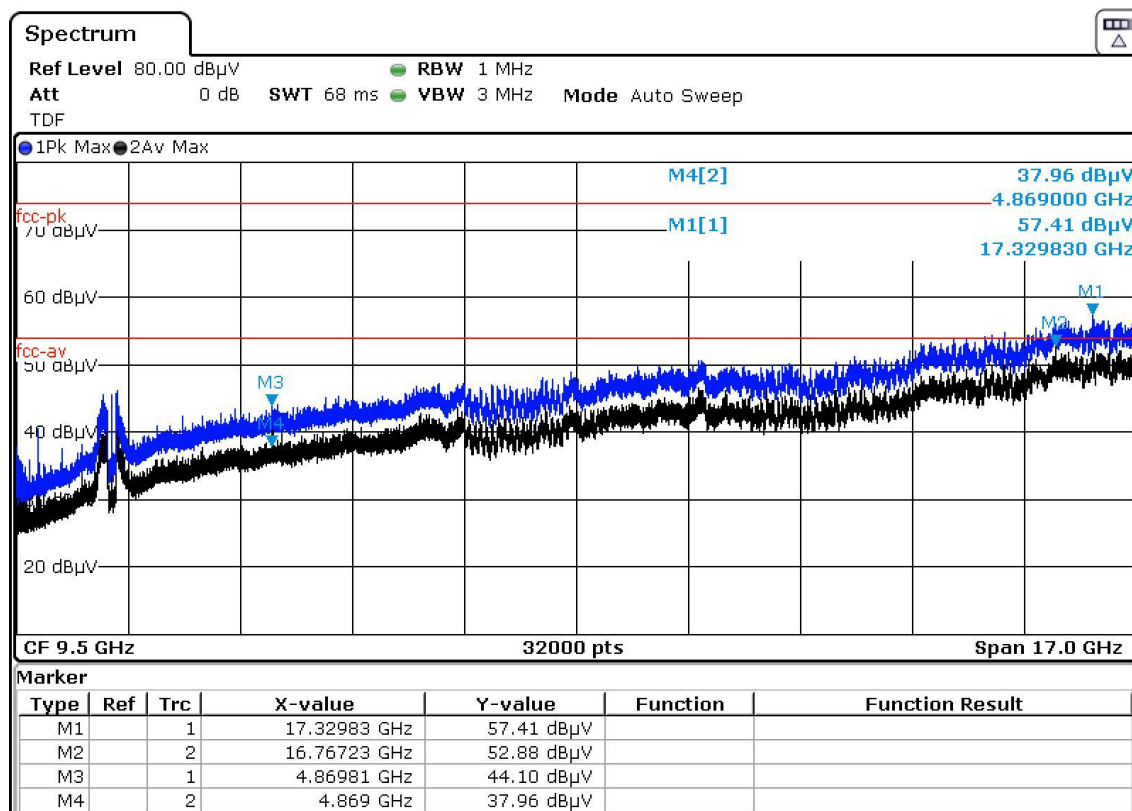
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 2 @2437 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

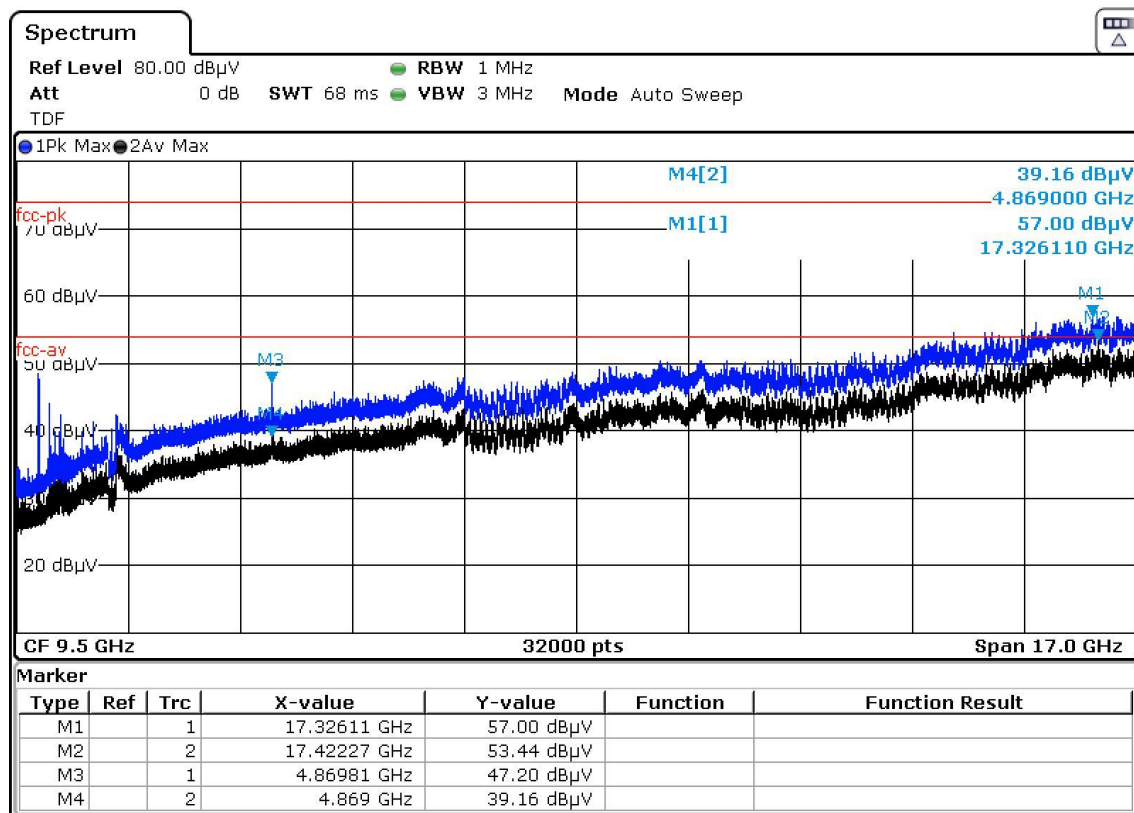


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

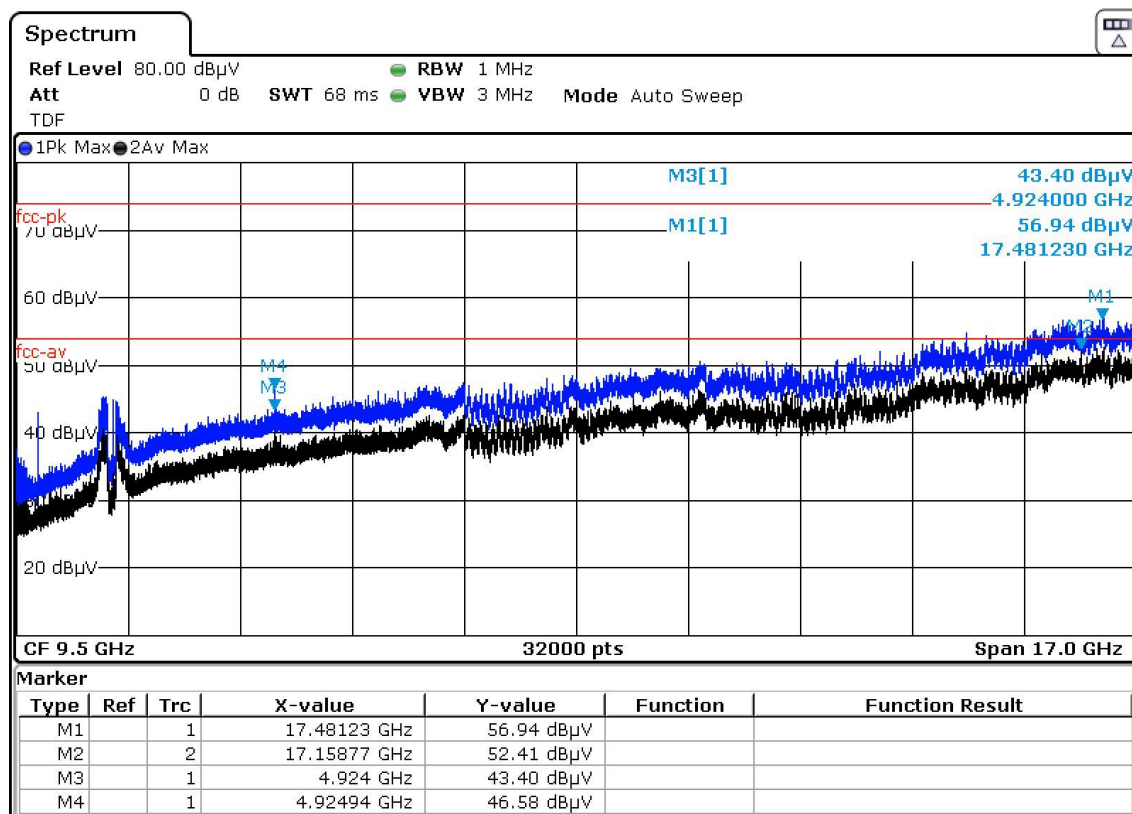
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 2 @2462 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

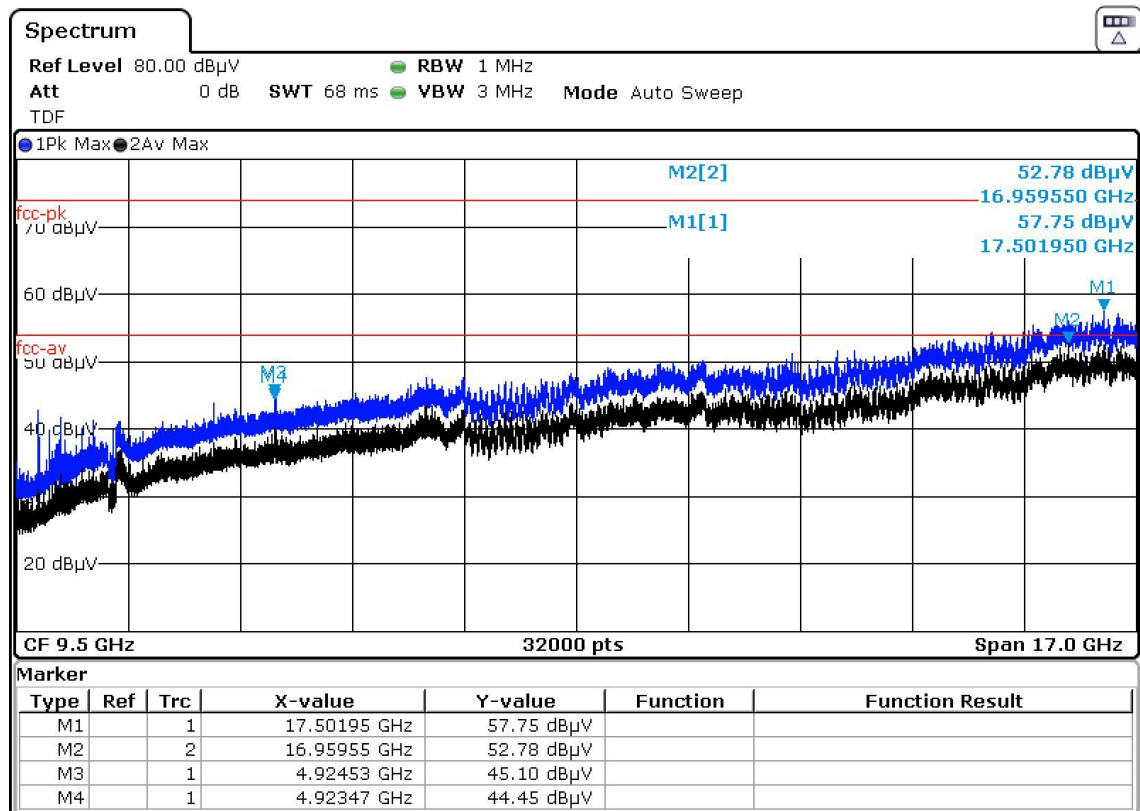


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

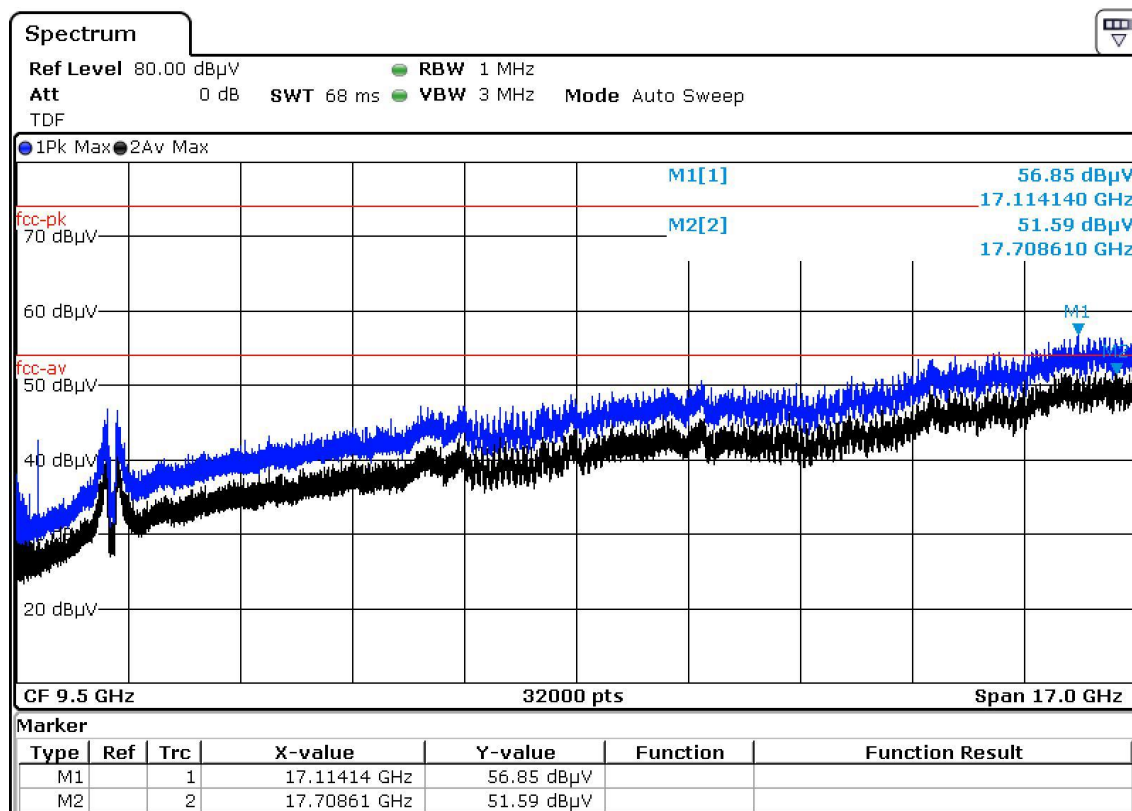
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 3 @2412 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

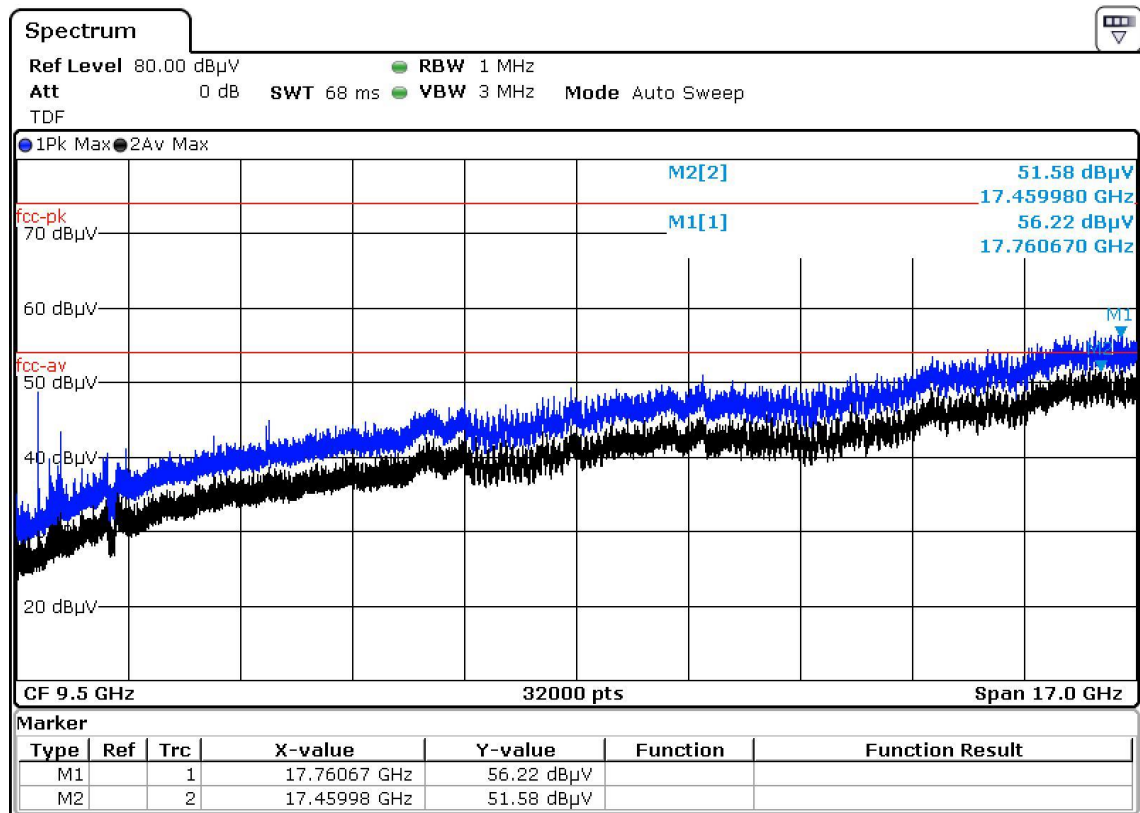


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

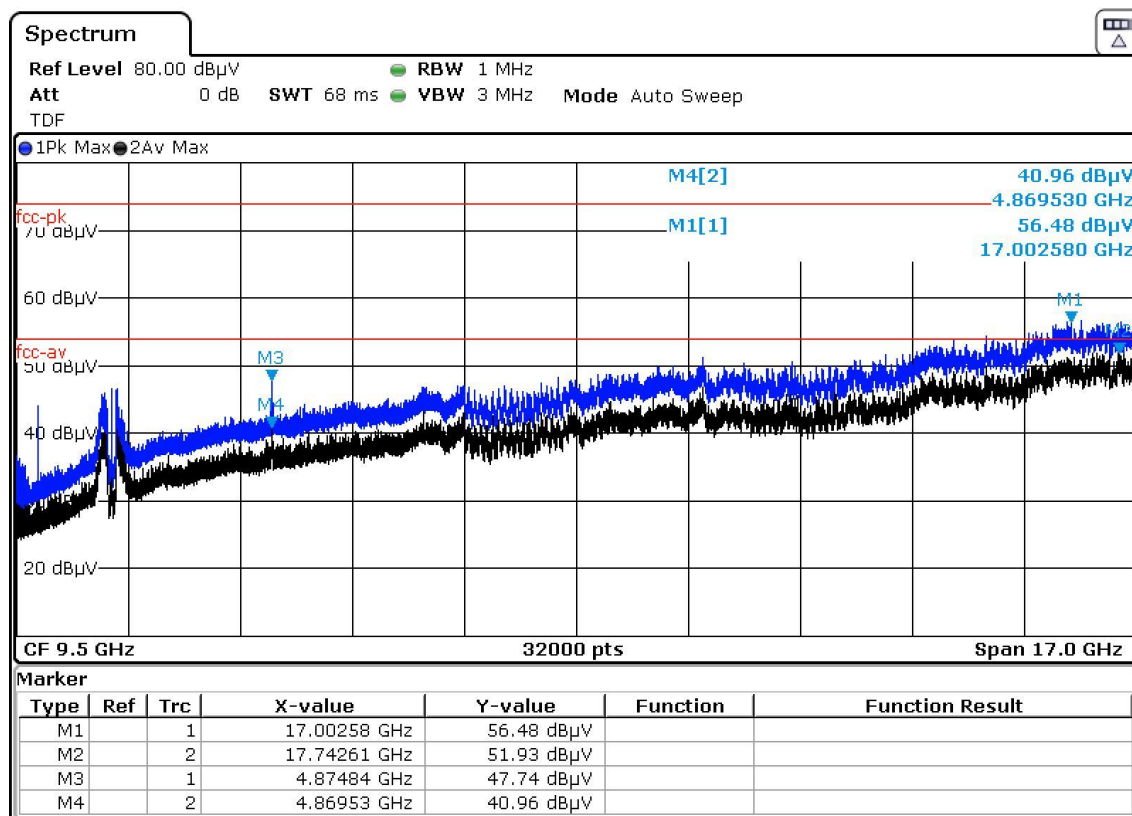
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 3 @2437 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

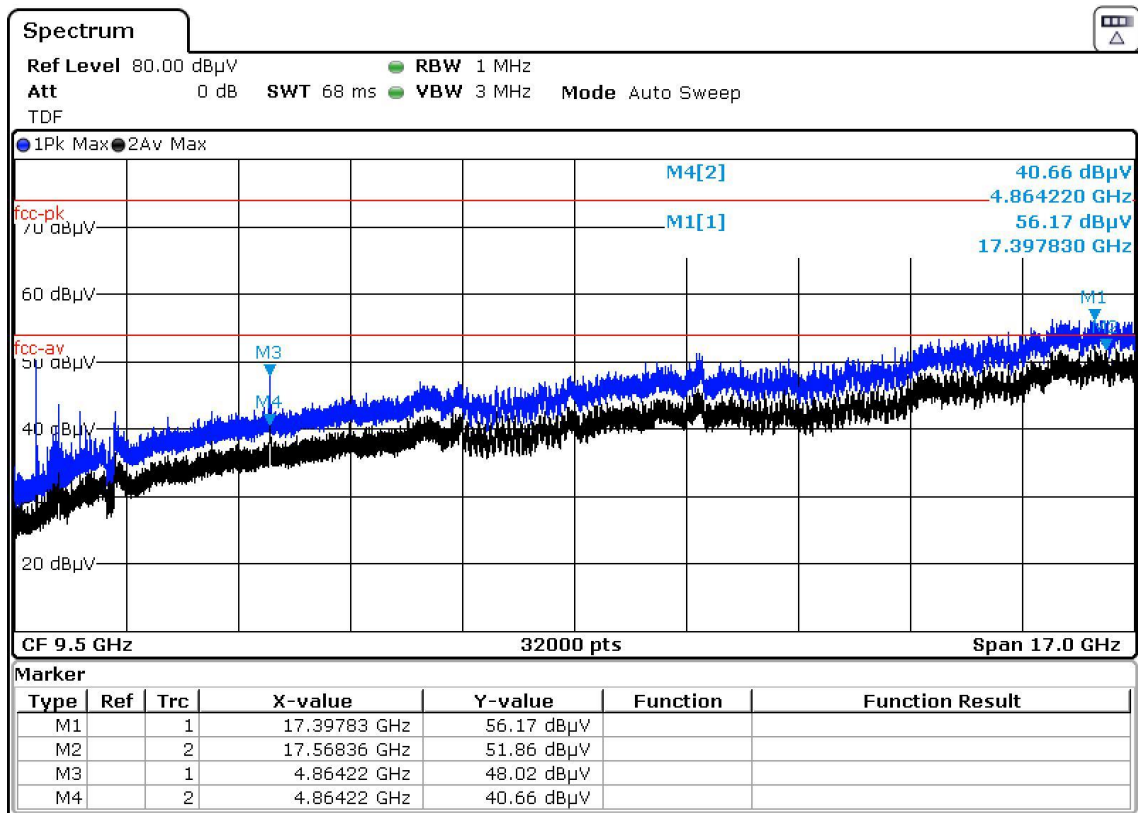


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

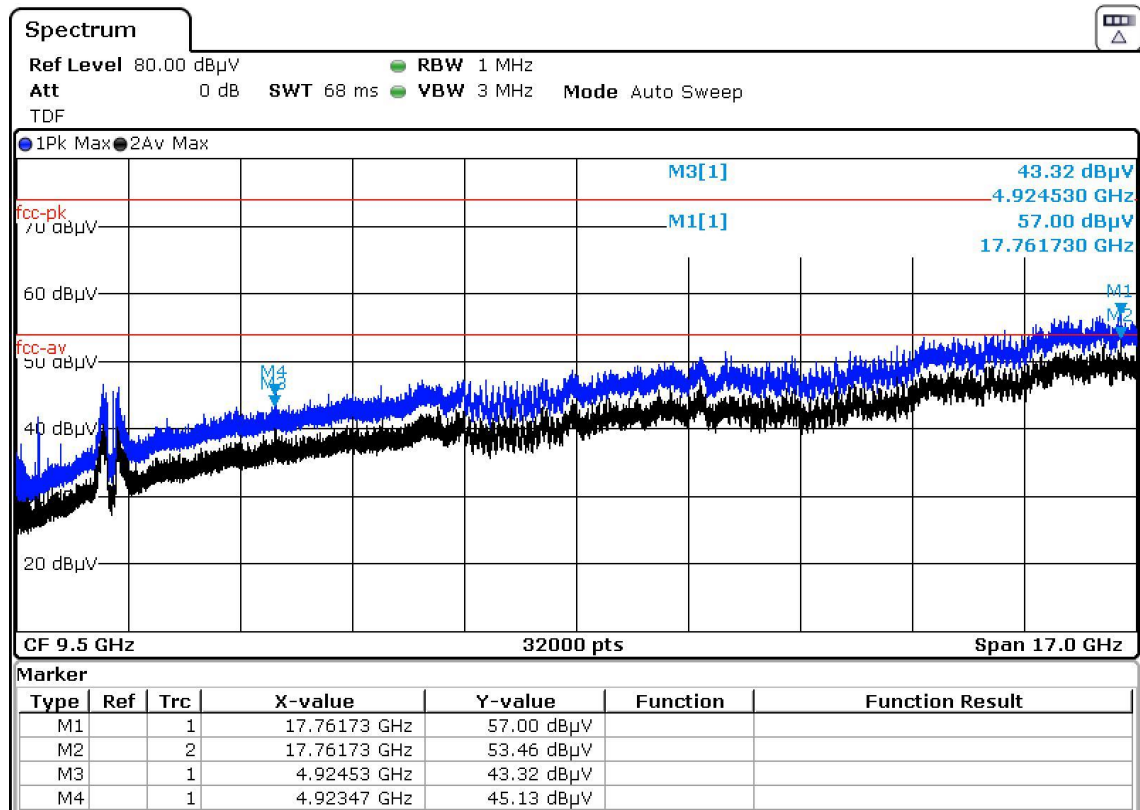
- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	MWB414S.05
Operation Mode	Mode 3 @2462 MHz
Test voltage	120 Vac, 60 Hz

Results

Horizontal

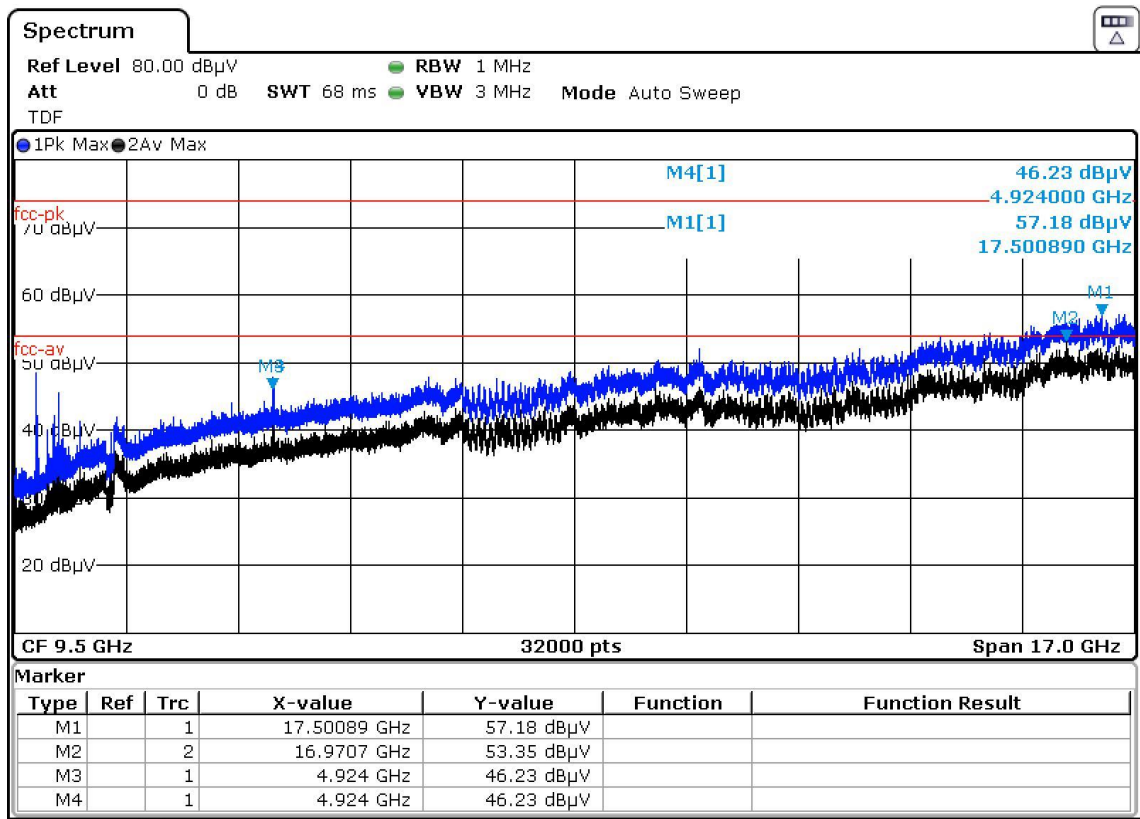


Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Remarks:

- 1) Due to the spectrum display limitation, the unit dBuV in test figure is dBuV/m actually.
- 2) Y-Value (dBuV/m)= received value (dBuV)+ Correction Factor (Antenna factor (dBuV/m)+ Cable loss (dB)- Preamp gain (dB))

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

4.3	Emissions in restricted frequency bands	VERDICT: PASS
------------	--	----------------------

Restricted Bands of operation of FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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	8.025 – 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 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	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	
13.36 – 13.41			
Restricted Bands of operation for IC			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

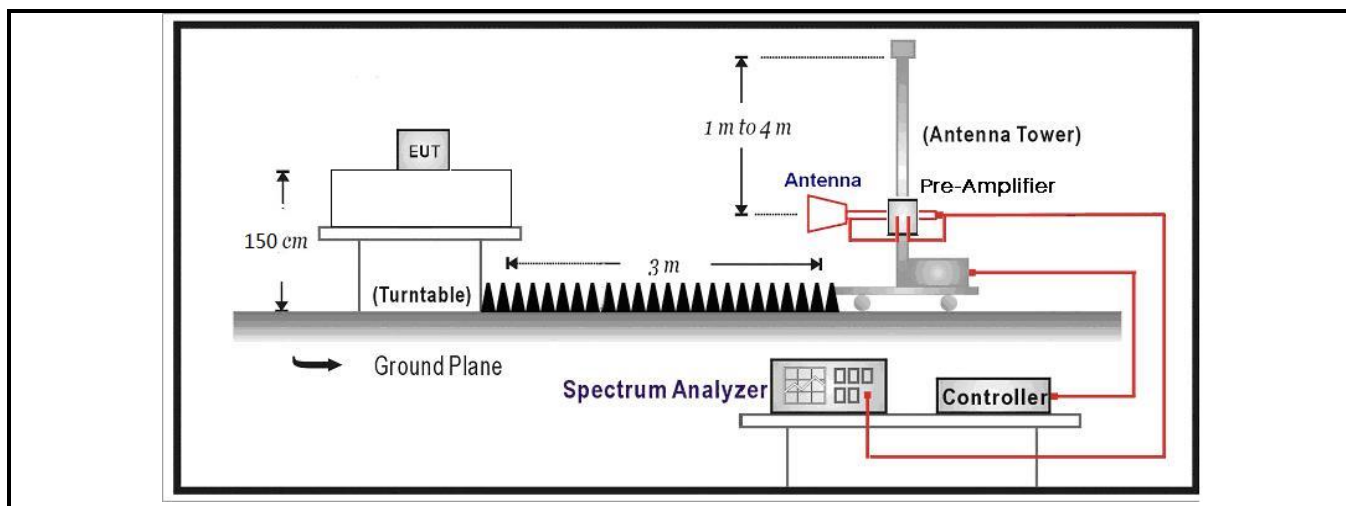
Restricted Band Emissions Limit

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration



Performed measurements

Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	RBW: 1 MHz, VBW: 3 MHz	

Mode 1

Operation channel (MHz)	Frequency (MHz)	Polar	Max Peak Value (dBuV/m)	Peak limit (dBuV/m)	Max AV Value (dBuV/m)	AV limit (dBuV/m)
2412	2390.00	H	50.42	74	---	---
	2313.77	H	---	---	47.71	54
	2389.99	V	47.93	74	---	---
	2389.96	V	---	---	45.92	54
2462	2483.86	H	55.64	74	---	---
	2483.50	H	---	---	44.28	54
	2483.86	V	54.05	74	---	---
	2483.50	V	---	---	43.22	54

Mode 2

Operation channel (MHz)	Frequency (MHz)	Polar	Max Peak Value (dBuV/m)	Peak limit (dBuV/m)	Max AV Value (dBuV/m)	AV limit (dBuV/m)
2412	2389.95	H	60.83	74	---	---
	2389.98	H	---	---	44.08	54
	2389.99	V	47.63	74	---	---
	2390.00	V	---	---	45.36	54
2462	2483.85	H	58.83	74	---	---
	2483.50	H	---	---	45.62	54
	2483.51	V	55.57	74	---	---
	2483.50	V	---	---	43.63	54

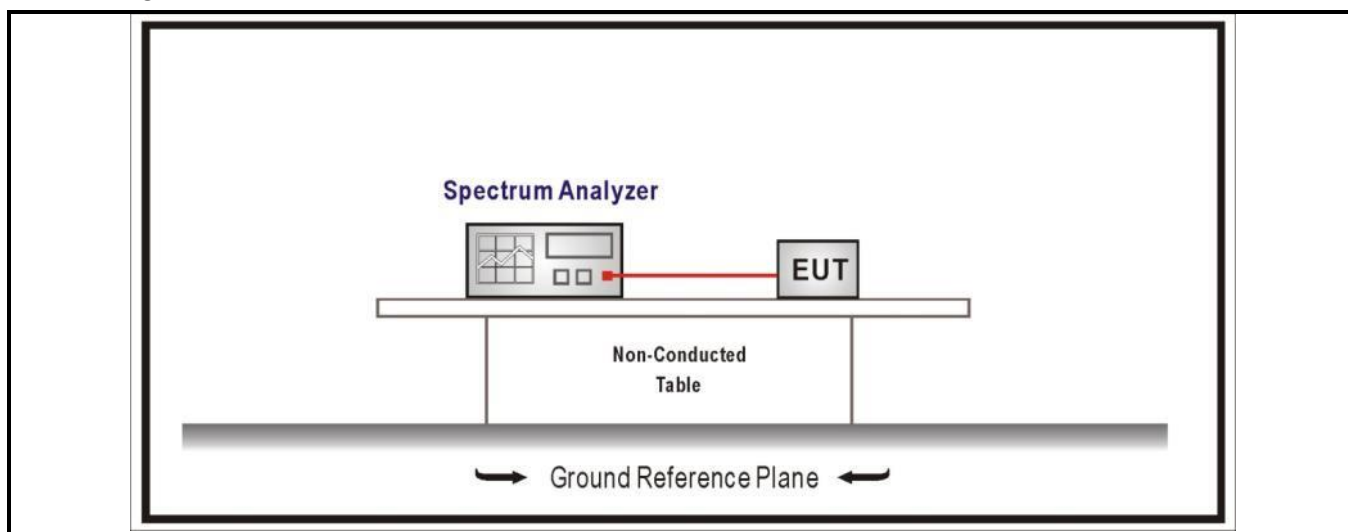
Mode 3

Operation channel (MHz)	Frequency (MHz)	Polar	Max Peak Value (dBuV/m)	Peak limit (dBuV/m)	Max AV Value (dBuV/m)	AV limit (dBuV/m)
2412	2390.00	H	71.21	74	---	---
	2390.00	H	---	---	48.18	54
	2389.96	V	51.29	74	---	---
	2390.00	V	---	---	37.88	54
2462	2483.50	H	59.49	74	---	---
	2485.39	H	---	---	45.78	54
	2483.50	V	55.49	74	---	---
	2483.50	V	---	---	42.91	54

4.4 Band Edge	VERDICT: PASS
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Standard	FCC Part 15 Subpart C Paragraph 15.247(d)	
RF Output power (Detection methods)	Limit(dB)	
RF Output power(Average detector)	30dBc(Note1)	
RF Output power(PK detector)	20dBc(Note2)	
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by LEast 30 dB relative to the maximum in-band peak PSD by LLevel in 100 kHz (i.e., 30 dBc).		
Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by least 20 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 20 dBc).		

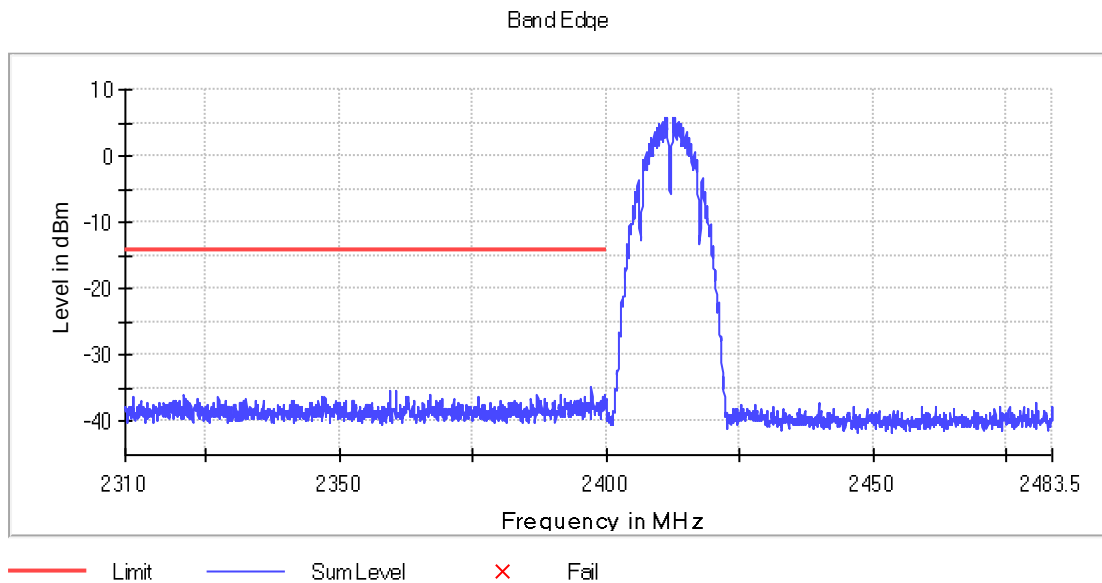
Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	RBW=100 kHz, VBW=300 kHz	

BU part Results of mode 1 @2412 MHz



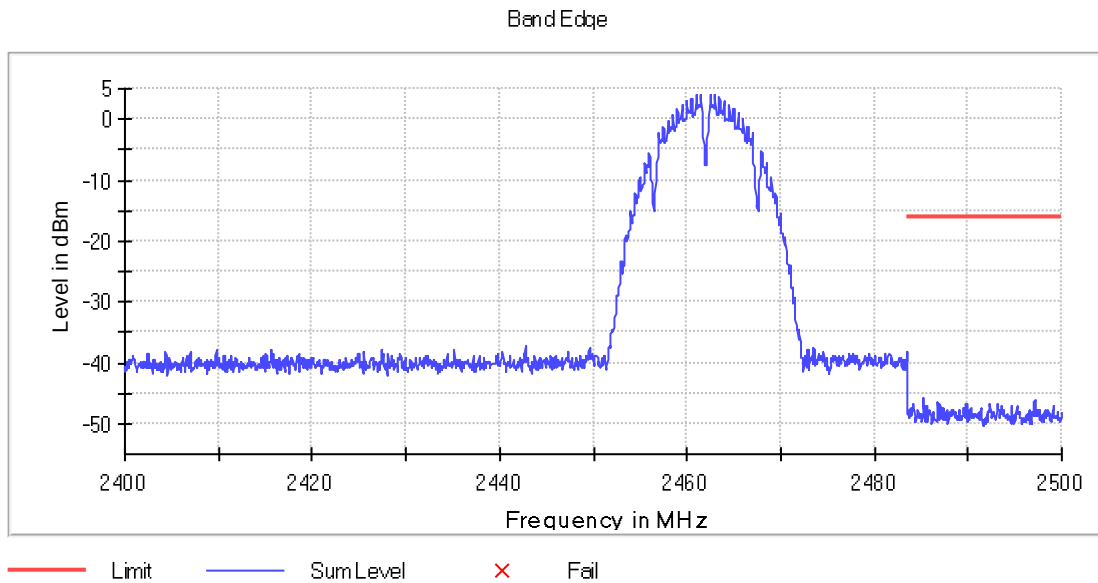
Inband Peak

Frequency (MHz)	Level (dBm)
2412.0000	5.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2485.225000	-45.7	29.7	-16.0	PASS
2485.275000	-45.8	29.8	-16.0	PASS
2497.125000	-46.2	30.2	-16.0	PASS
2485.175000	-46.3	30.3	-16.0	PASS
2486.775000	-46.3	30.3	-16.0	PASS
2486.825000	-46.3	30.3	-16.0	PASS
2497.075000	-46.5	30.5	-16.0	PASS
2493.125000	-46.7	30.7	-16.0	PASS
2487.025000	-46.7	30.7	-16.0	PASS
2489.875000	-46.7	30.7	-16.0	PASS
2484.175000	-46.8	30.8	-16.0	PASS
2492.325000	-46.9	30.9	-16.0	PASS
2489.825000	-46.9	30.9	-16.0	PASS
2495.275000	-46.9	30.9	-16.0	PASS
2484.225000	-46.9	30.9	-16.0	PASS

Results of mode 1 @2462 MHz



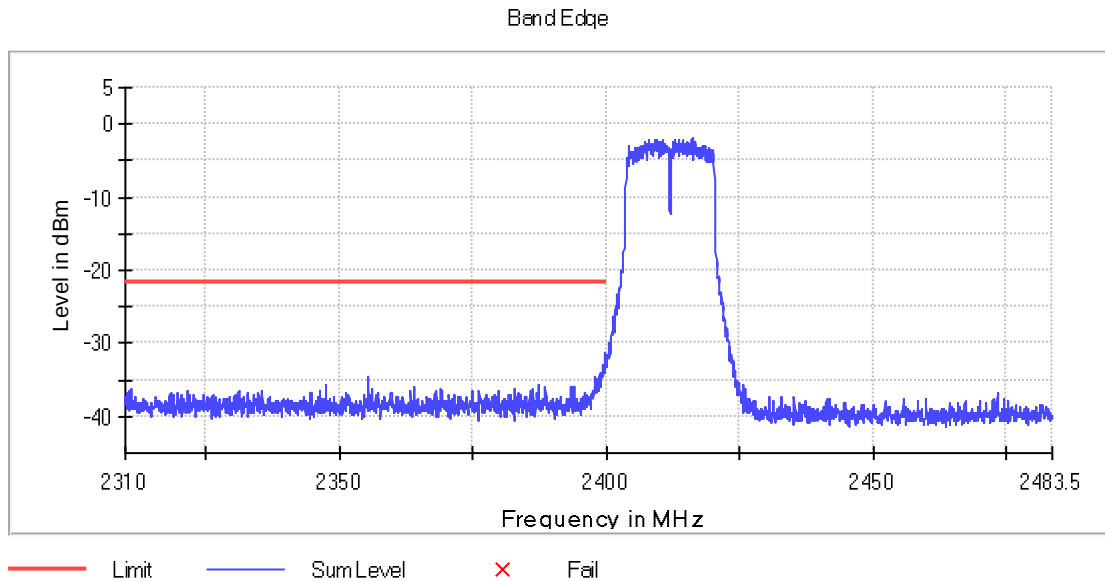
Inband Peak

Frequency (MHz)	Level (dBm)
2462.0000	4.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2485.225000	-45.7	29.7	-16.0	PASS
2485.275000	-45.8	29.8	-16.0	PASS
2497.125000	-46.2	30.2	-16.0	PASS
2485.175000	-46.3	30.3	-16.0	PASS
2486.775000	-46.3	30.3	-16.0	PASS
2486.825000	-46.3	30.3	-16.0	PASS
2497.075000	-46.5	30.5	-16.0	PASS
2493.125000	-46.7	30.7	-16.0	PASS
2487.025000	-46.7	30.7	-16.0	PASS
2489.875000	-46.7	30.7	-16.0	PASS
2484.175000	-46.8	30.8	-16.0	PASS
2492.325000	-46.9	30.9	-16.0	PASS
2489.825000	-46.9	30.9	-16.0	PASS
2495.275000	-46.9	30.9	-16.0	PASS
2484.225000	-46.9	30.9	-16.0	PASS

Results of mode 2 @2412 MHz



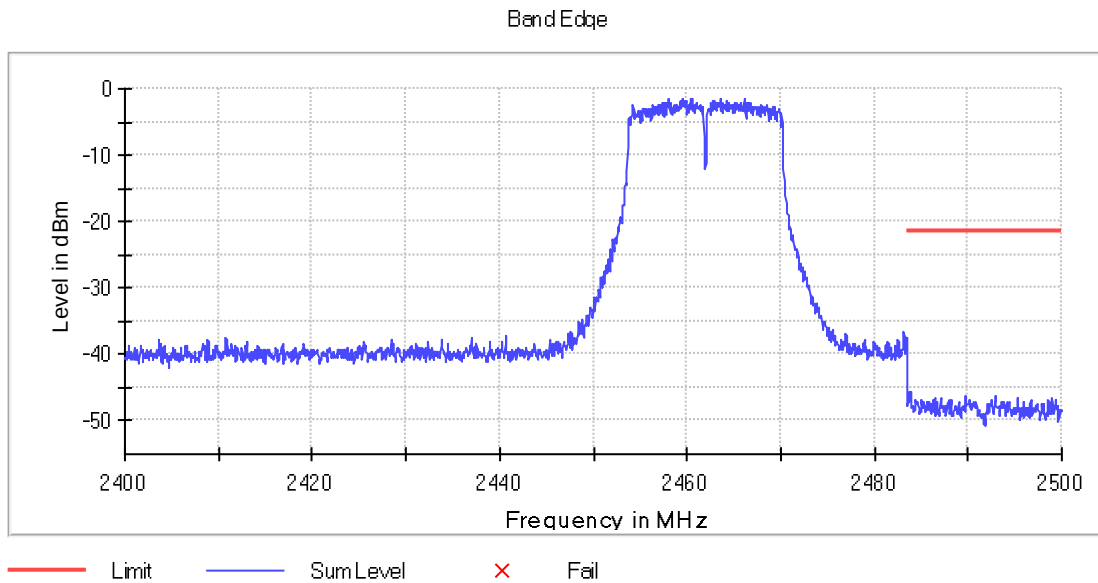
Inband Peak

Frequency (MHz)	Level (dBm)
2412.0000	-1.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.825000	-31.3	9.5	-21.8	PASS
2399.875000	-31.4	9.6	-21.8	PASS
2399.975000	-32.2	10.4	-21.8	PASS
2399.775000	-32.3	10.5	-21.8	PASS
2399.925000	-32.5	10.8	-21.8	PASS
2399.725000	-32.6	10.9	-21.8	PASS
2399.275000	-32.9	11.1	-21.8	PASS
2399.425000	-33.1	11.3	-21.8	PASS
2399.575000	-33.2	11.4	-21.8	PASS
2399.375000	-33.4	11.6	-21.8	PASS
2399.325000	-33.4	11.6	-21.8	PASS
2399.475000	-33.6	11.8	-21.8	PASS
2398.825000	-33.9	12.1	-21.8	PASS
2399.625000	-34.0	12.2	-21.8	PASS
2399.675000	-34.0	12.2	-21.8	PASS

Results of mode 2 @2462 MHz



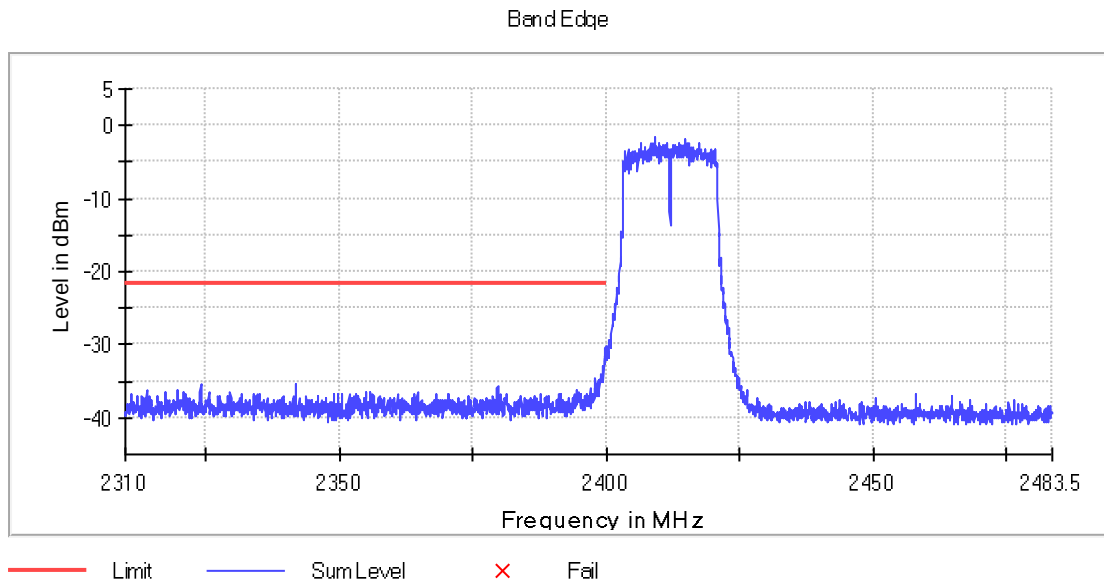
Inband Peak

Frequency (MHz)	Level (dBm)
2462.0000	-1.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.825000	-45.5	24.1	-21.5	PASS
2483.875000	-45.8	24.3	-21.5	PASS
2483.775000	-46.3	24.8	-21.5	PASS
2483.725000	-46.3	24.9	-21.5	PASS
2492.925000	-46.3	24.9	-21.5	PASS
2489.725000	-46.4	24.9	-21.5	PASS
2489.775000	-46.4	24.9	-21.5	PASS
2483.675000	-46.4	24.9	-21.5	PASS
2486.425000	-46.5	25.0	-21.5	PASS
2487.075000	-46.5	25.1	-21.5	PASS
2495.325000	-46.6	25.1	-21.5	PASS
2495.275000	-46.6	25.1	-21.5	PASS
2487.125000	-46.6	25.1	-21.5	PASS
2499.025000	-46.6	25.2	-21.5	PASS
2498.975000	-46.7	25.2	-21.5	PASS

Results of mode 3 @2412 MHz



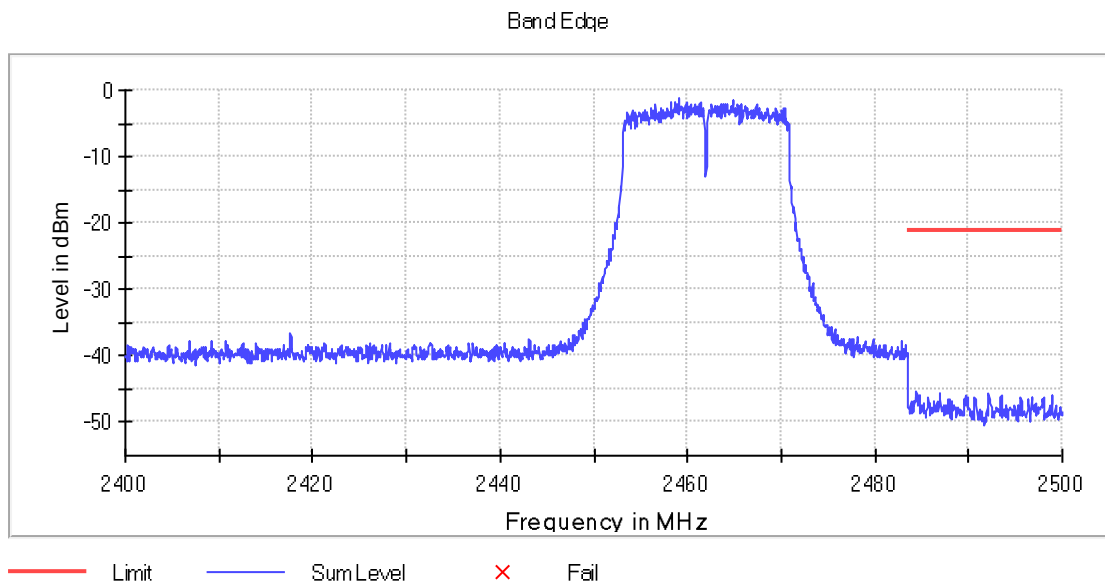
Inband Peak

Frequency (MHz)	Level (dBm)
2412.0000	-1.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-30.1	8.5	-21.6	PASS
2399.925000	-30.5	8.9	-21.6	PASS
2399.825000	-31.1	9.6	-21.6	PASS
2399.875000	-31.1	9.6	-21.6	PASS
2399.725000	-31.5	10.0	-21.6	PASS
2399.575000	-31.9	10.4	-21.6	PASS
2399.625000	-32.0	10.4	-21.6	PASS
2399.775000	-32.5	10.9	-21.6	PASS
2399.675000	-32.7	11.1	-21.6	PASS
2399.425000	-32.9	11.4	-21.6	PASS
2399.375000	-33.1	11.5	-21.6	PASS
2399.175000	-33.9	12.3	-21.6	PASS
2399.125000	-34.1	12.5	-21.6	PASS
2399.475000	-34.2	12.6	-21.6	PASS
2399.275000	-34.5	12.9	-21.6	PASS

Results of mode 3 @2462 MHz



Inband Peak

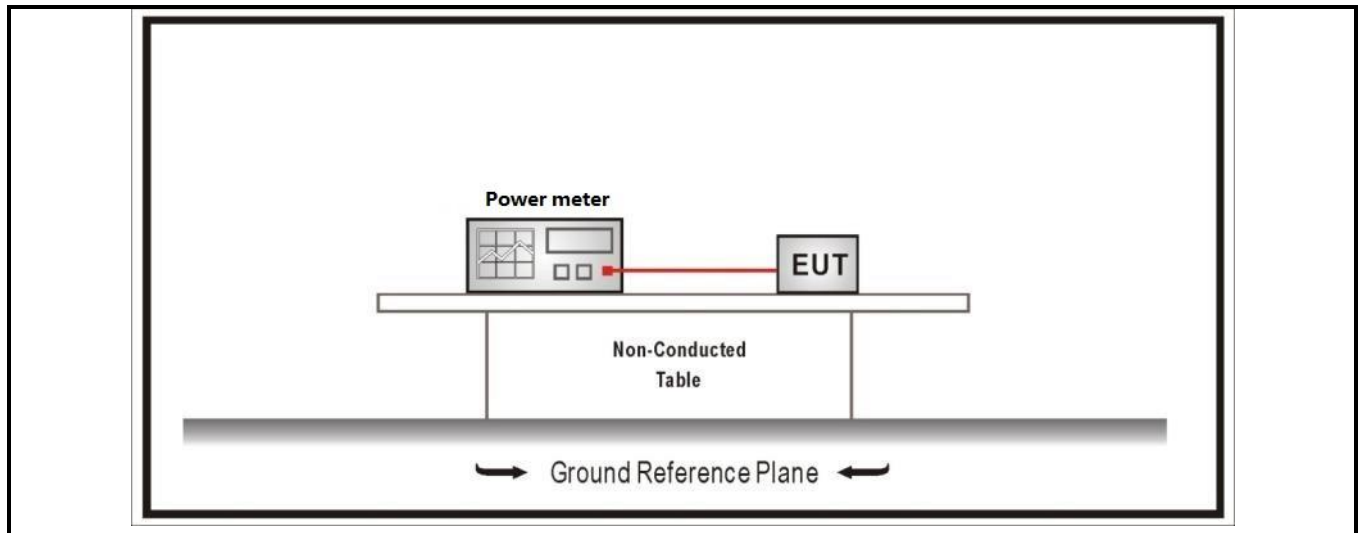
Frequency (MHz)	Level (dBm)
2462.0000	-1.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.475000	-45.2	24.1	-21.1	PASS
2486.975000	-45.7	24.6	-21.1	PASS
2492.175000	-45.8	24.7	-21.1	PASS
2492.125000	-45.9	24.8	-21.1	PASS
2489.675000	-45.9	24.8	-21.1	PASS
2498.925000	-45.9	24.8	-21.1	PASS
2484.425000	-46.0	24.9	-21.1	PASS
2484.525000	-46.0	24.9	-21.1	PASS
2484.775000	-46.0	25.0	-21.1	PASS
2486.925000	-46.0	25.0	-21.1	PASS
2489.625000	-46.1	25.0	-21.1	PASS
2493.475000	-46.1	25.0	-21.1	PASS
2497.975000	-46.1	25.1	-21.1	PASS
2495.575000	-46.1	25.1	-21.1	PASS
2484.325000	-46.2	25.1	-21.1	PASS

4.5	Duty cycle	VERDICT: PASS
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Test Configuration



Performed measurements

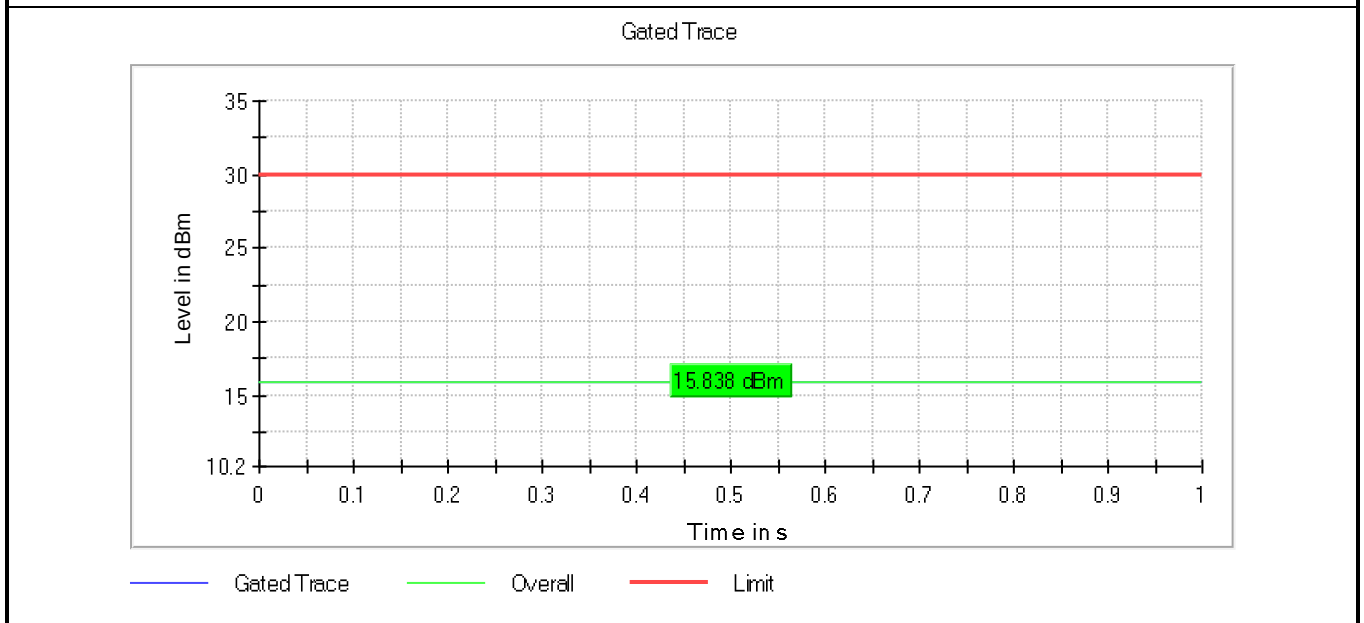
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	---	

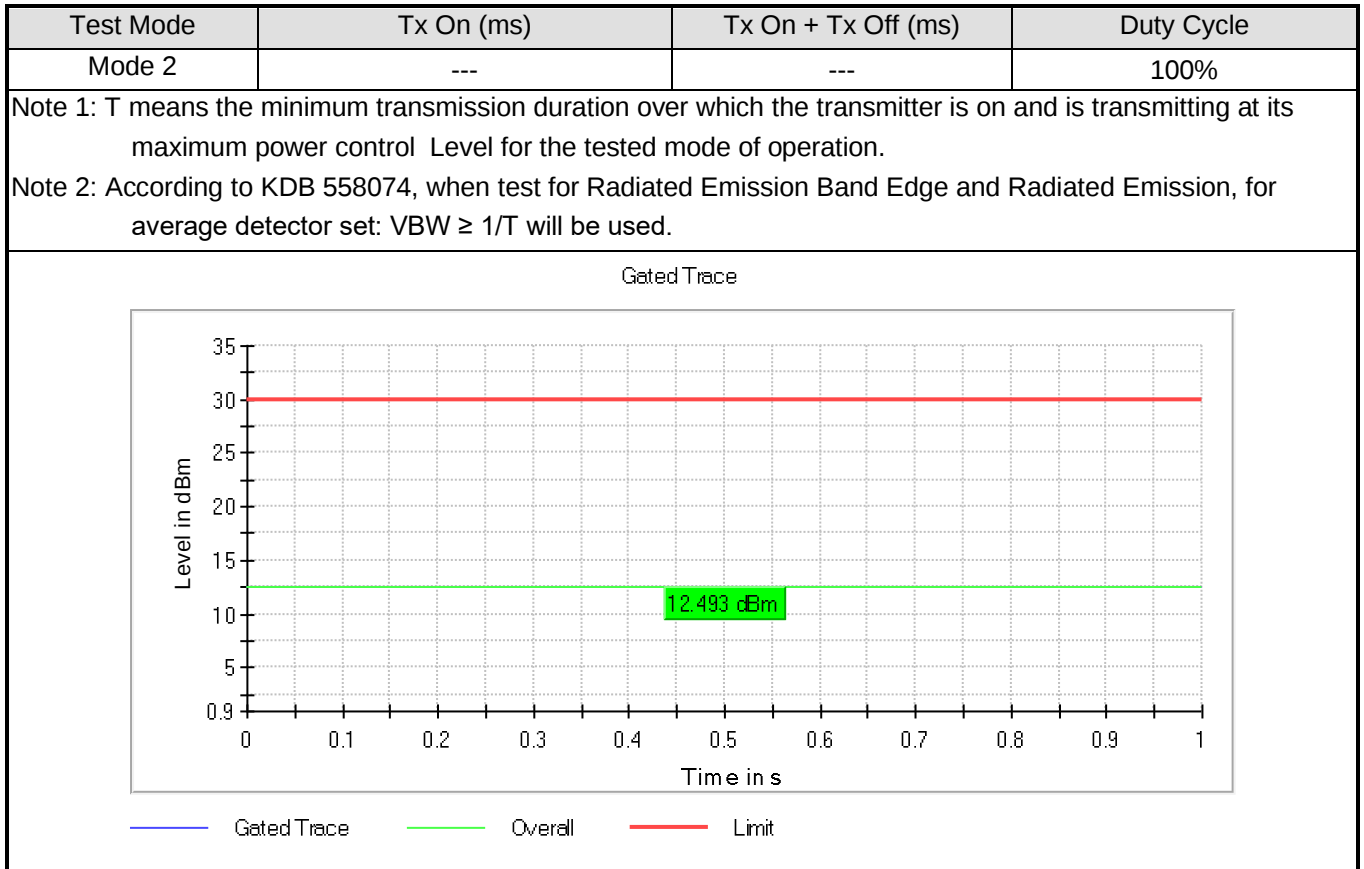
Results for BU part

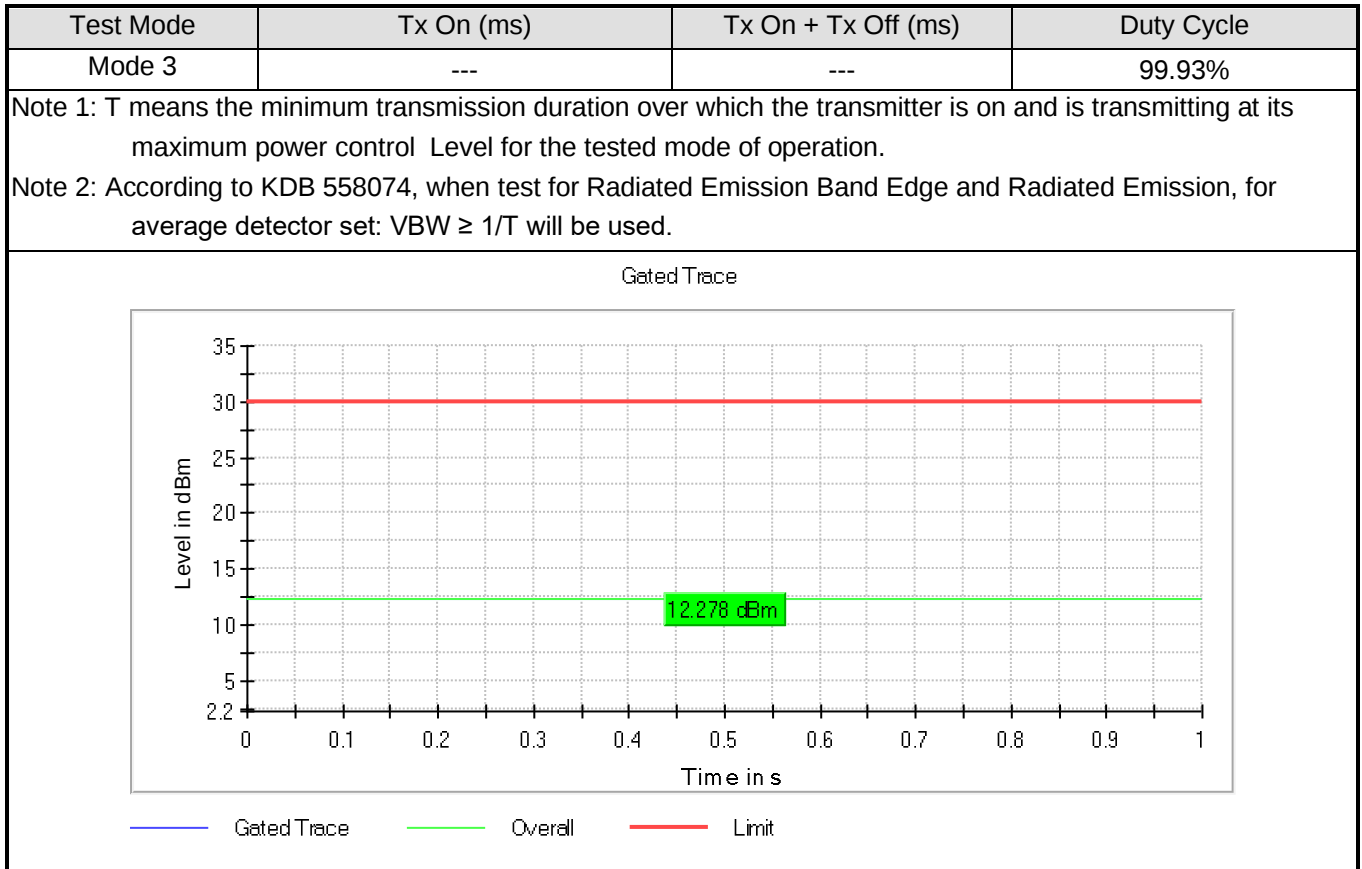
Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1	---	---	100%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW $\geq 1/T$ will be used.



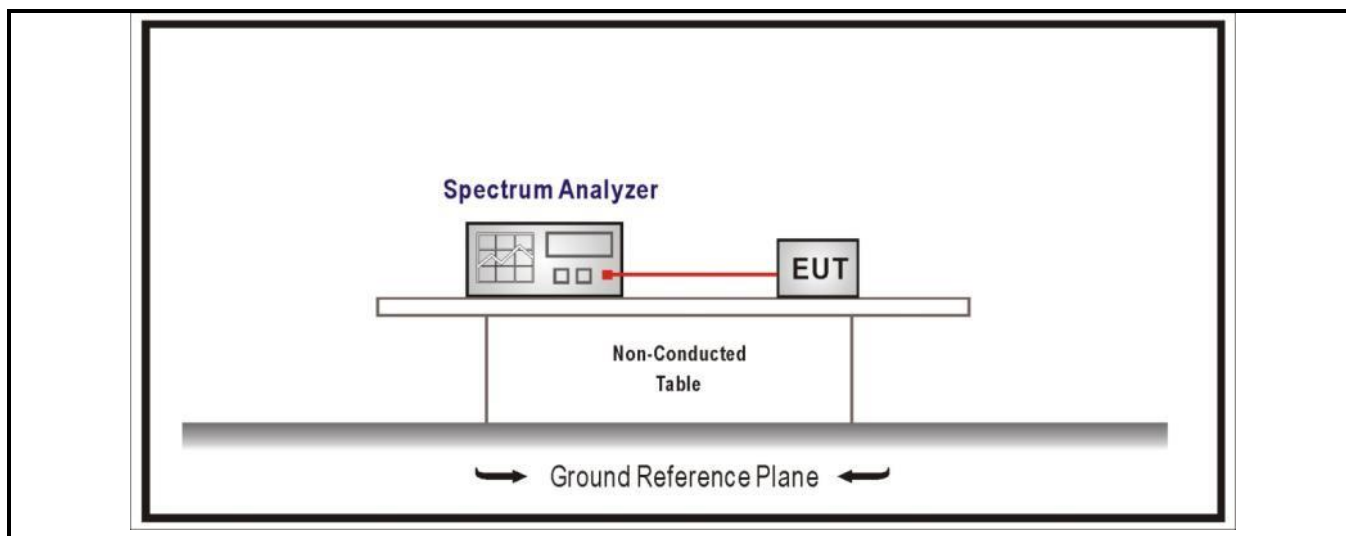




4.6 DTS Bandwidth	VERDICT: PASS
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Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at by least 500 kHz	

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	RBW=100 kHz, VBW=300 kHz	

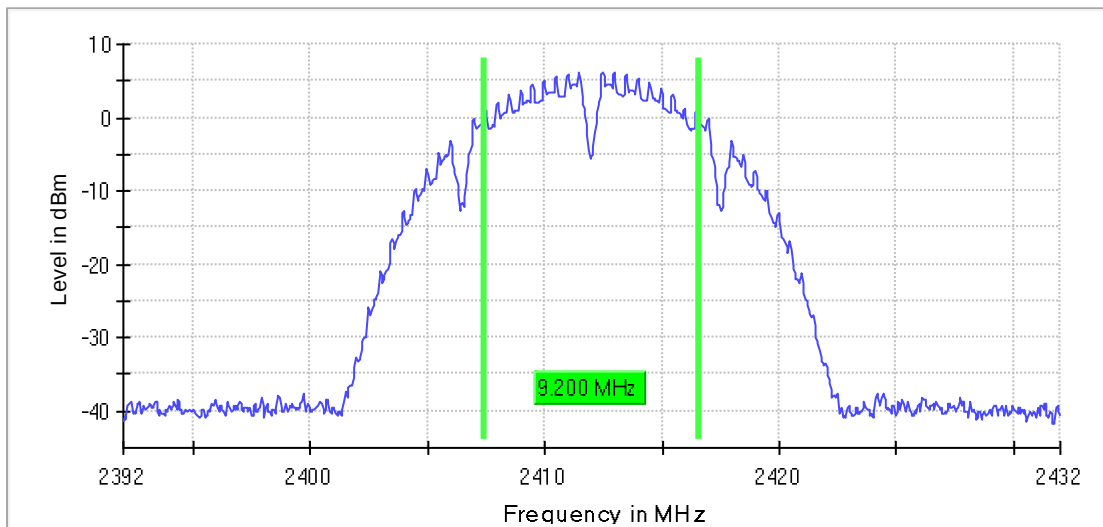
Results for BU part

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	1	2412	9.20	>500	Pass
	11	2462	9.20	>500	Pass

6dB Occupied Bandwidth

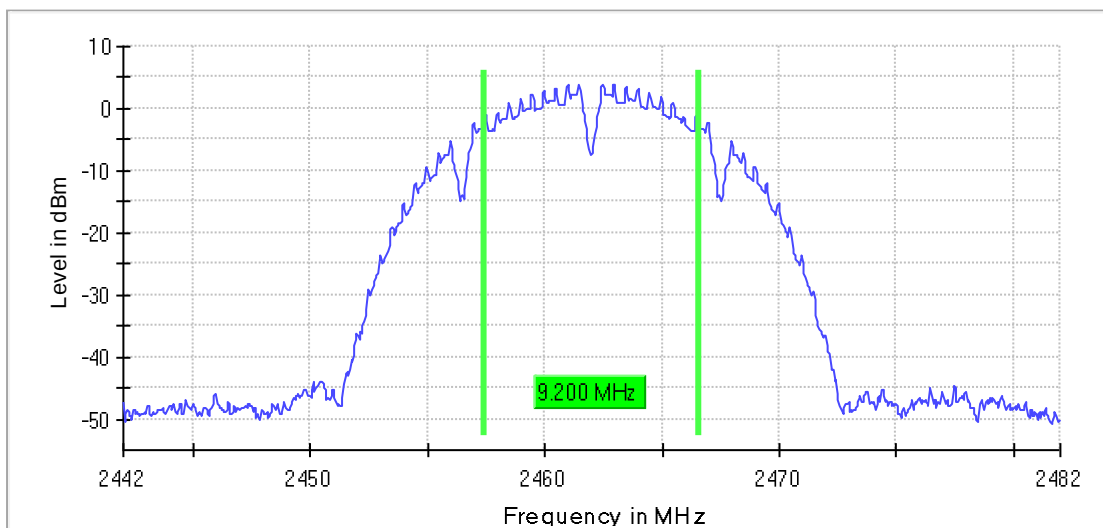
Mode 1 / CH1 (2412MHz)

6 dB Bandwidth



Mode 1 / CH11 (2462MHz)

6 dB Bandwidth

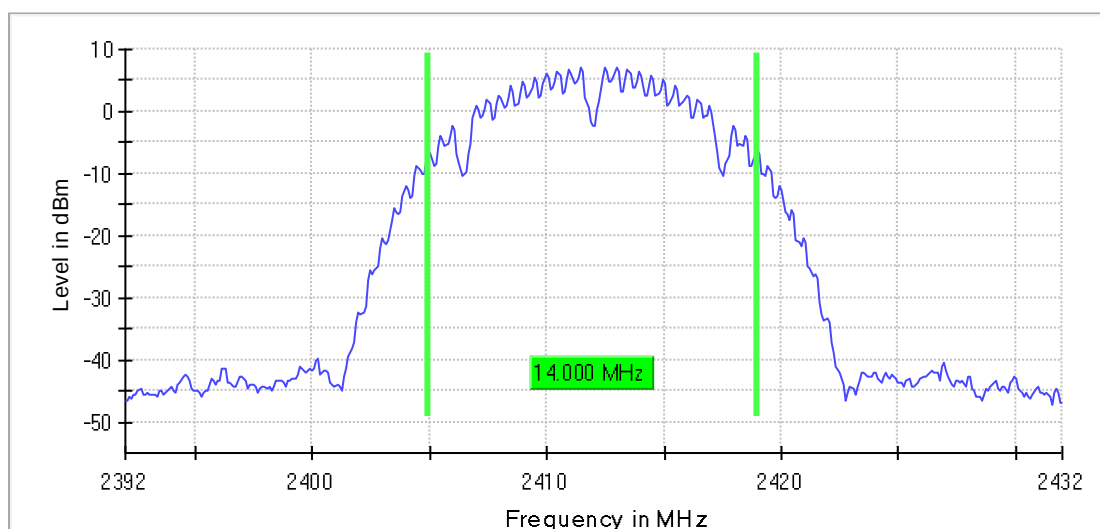


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
1	1	2412	14.00	Within frequency range	Pass
	11	2462	14.00	Within frequency range	Pass

99% Occupied Bandwidth

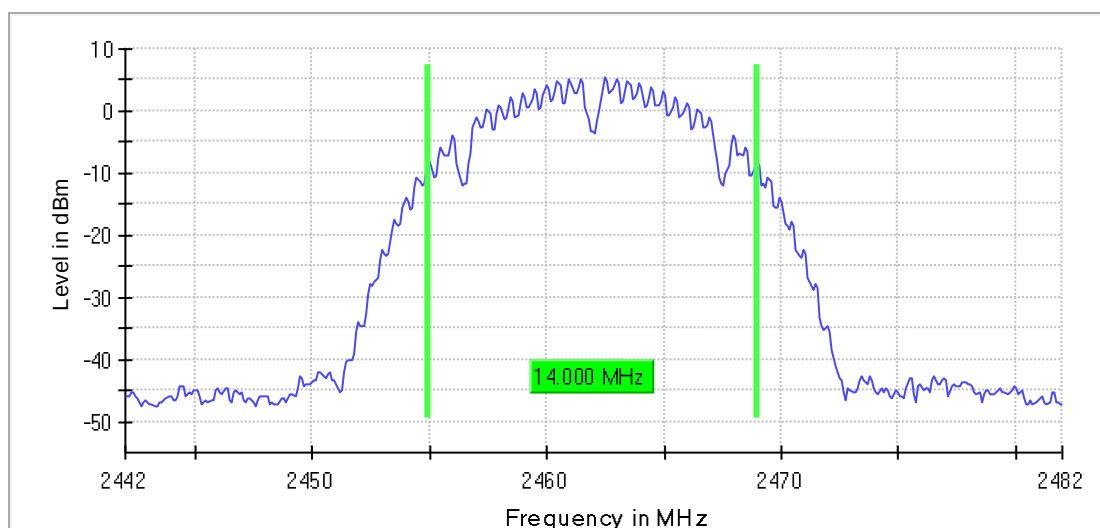
Mode 1 / CH1 (2412 MHz)

99 %Bandwidth



Mode 1 / CH11 (2462 MHz)

99 %Bandwidth

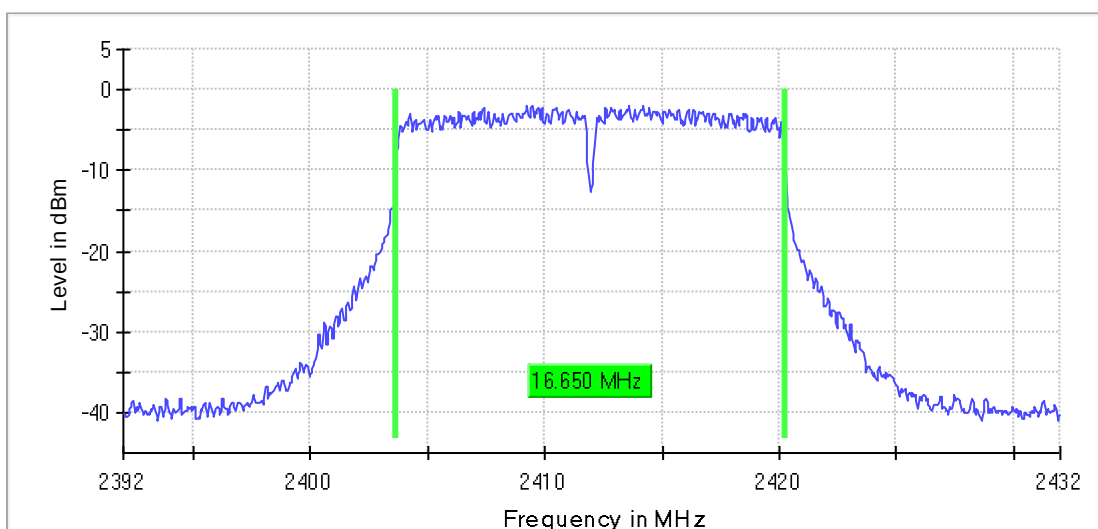


Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
2	1	2412	16.65	>500	Pass
	11	2462	16.65	>500	Pass

6dB Occupied Bandwidth

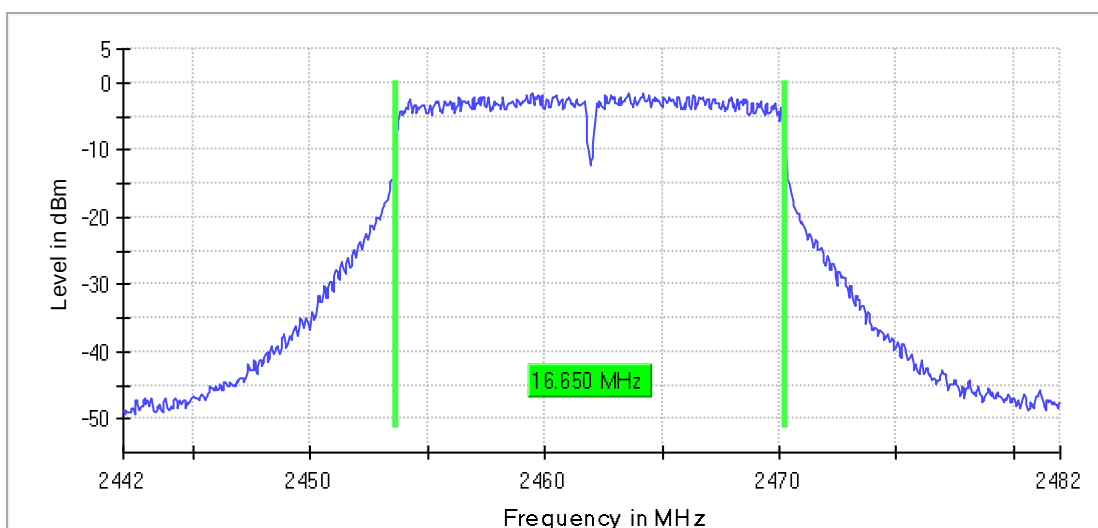
Mode 2 / CH1 (2412MHz)

6 dB Bandwidth



Mode 1 / CH11 (2462MHz)

6 dB Bandwidth

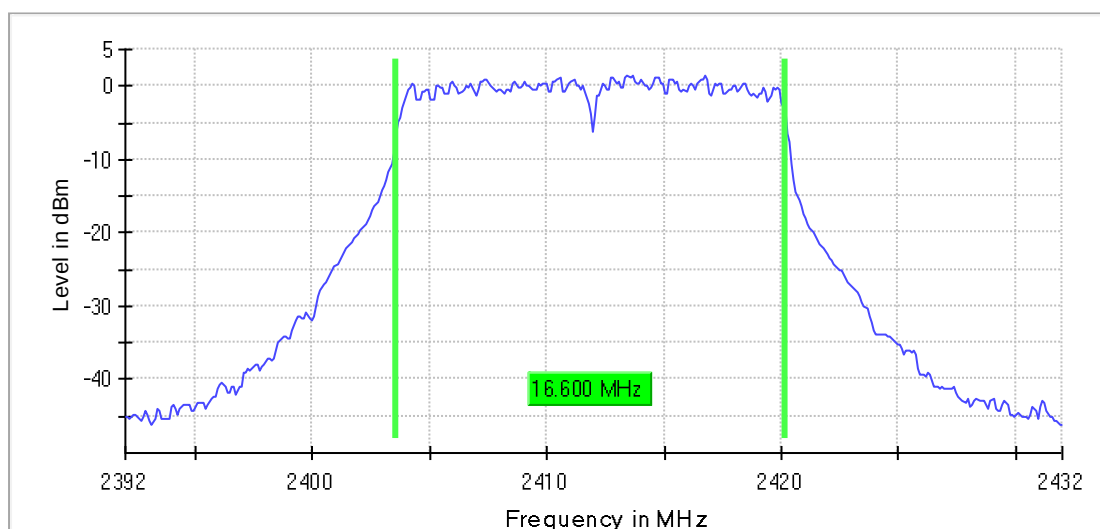


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2	1	2412	16.60	Within frequency range	Pass
	1	2462	16.60	Within frequency range	Pass

99% Occupied Bandwidth

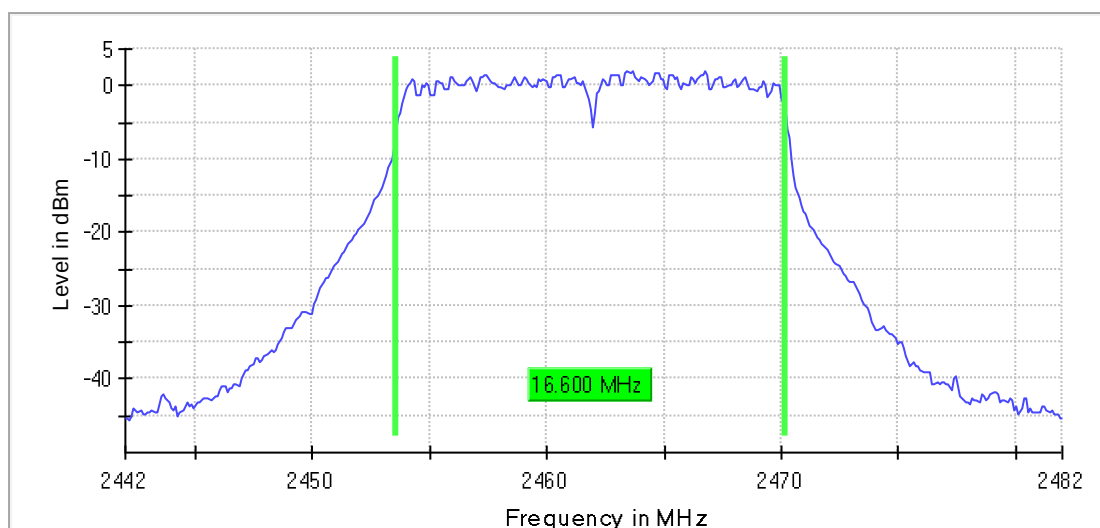
Mode 2 / CH1 (2412 MHz)

99 %Bandwidth



Mode 2 / CH11 (2462 MHz)

99 %Bandwidth

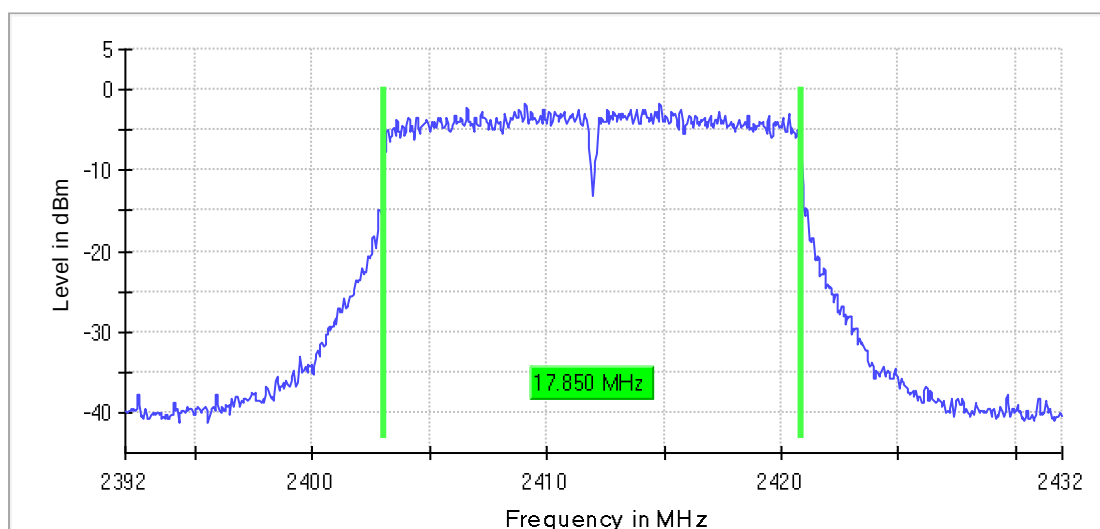


Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
3	1	2402	17.85	>500	Pass
	11	2480	17.80	>500	Pass

6dB Occupied Bandwidth

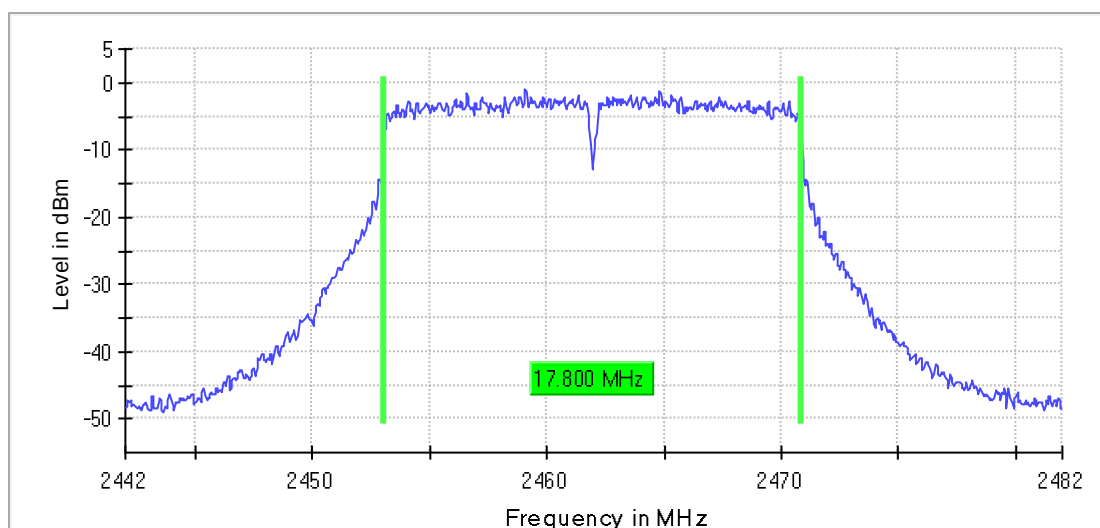
Mode 3 / CH1 (2412MHz)

6 dB Bandwidth



Mode 3 / CH11 (2462MHz)

6 dB Bandwidth

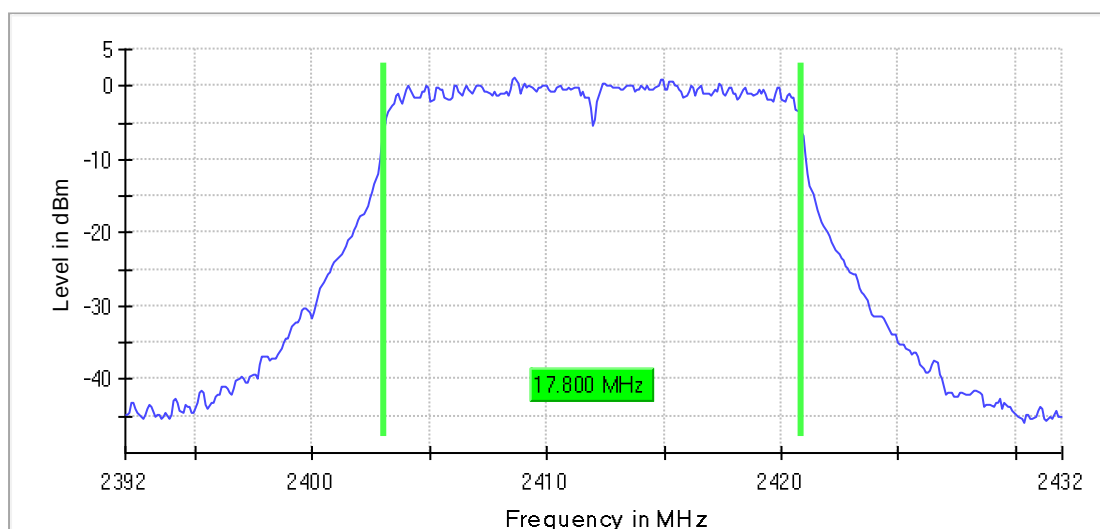


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
3	1	2412	17.80	Within frequency range	Pass
	11	2462	17.80	Within frequency range	Pass

99% Occupied Bandwidth

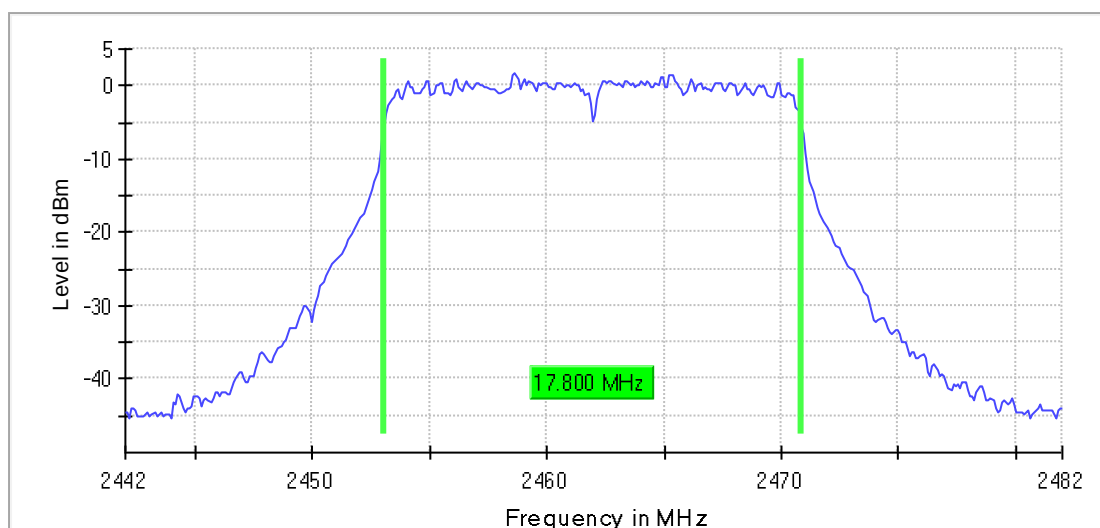
Mode 3 / CH1 (2412 MHz)

99 %Bandwidth



Mode 3 / CH11 (2462 MHz)

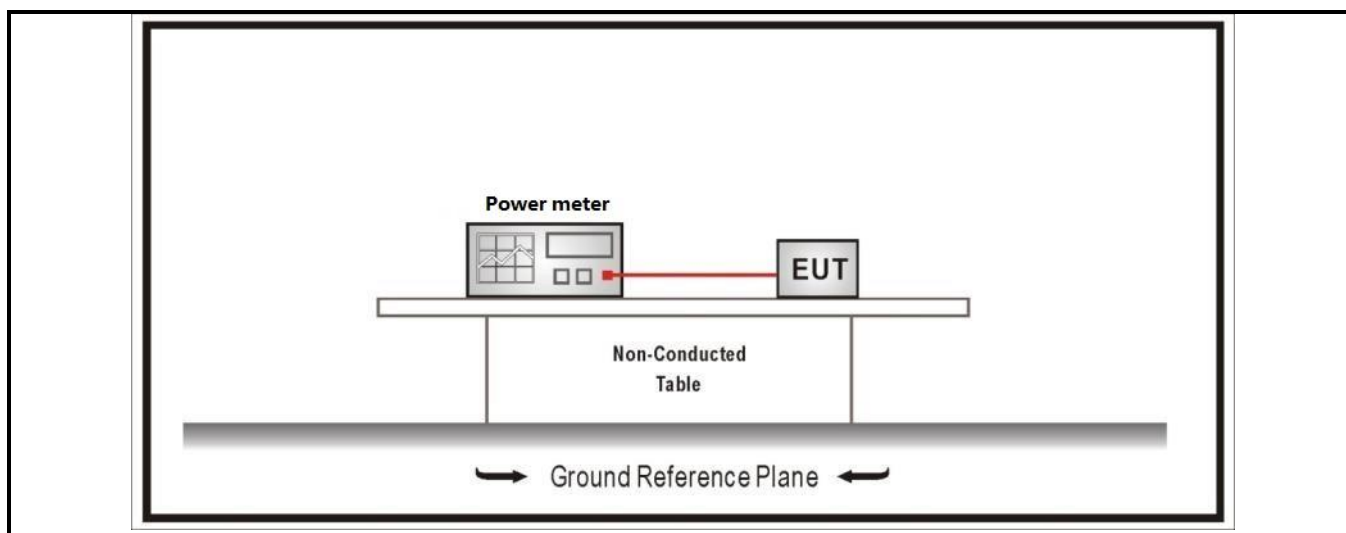
99 %Bandwidth



4.7	Fundamental emission output power	VERDICT: PASS
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Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue 2 Section 5.4(d)
☒	GTX < 6dBi	Pout≤30dBm
☐	GTX > 6dBi	
☐	Non-Fix point-point	Pout≤30-(GTX -6)
☐	Fix point-point	Pout≤30-[(GTX-6)]/3
☐	Point-to-multipoint	Pout≤30-(GTX-6)
☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
☐	single LE directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas.		
Note 2 : Pout is maximum peak conducted output power .		

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	---	

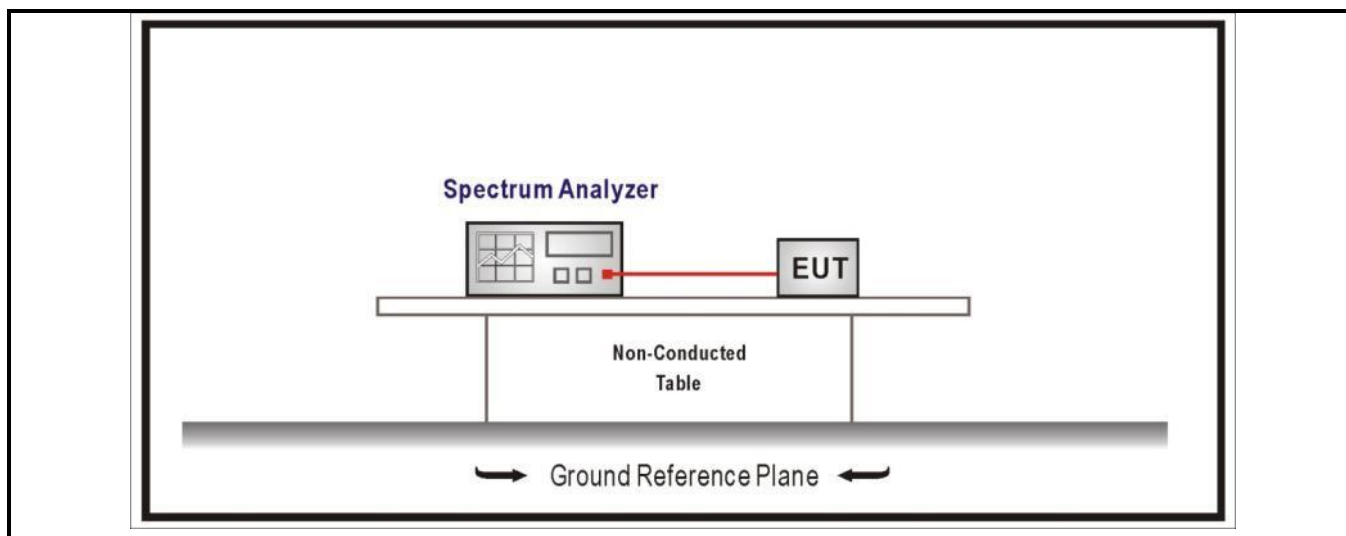
Results for BU part

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	EIRP (dBm)	Limit (dBm)	Result
Mode 1	1	2412	15.83	14.30	≤30	Pass
	6	2437	14.30	12.77	≤30	Pass
	11	2462	14.49	12.96	≤30	Pass
Mode 2	1	2412	12.49	10.96	≤30	Pass
	6	2437	12.54	11.01	≤30	Pass
	11	2462	12.75	11.22	≤30	Pass
Mode 3	1	2412	12.27	10.74	≤30	Pass
	6	2437	12.35	10.82	≤30	Pass
	11	2462	12.62	11.09	≤30	Pass

4.8 Power Density	VERDICT: PASS
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Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
Power Spectral Density≤8dBm/3kHz	

Test Configuration



Performed measurements

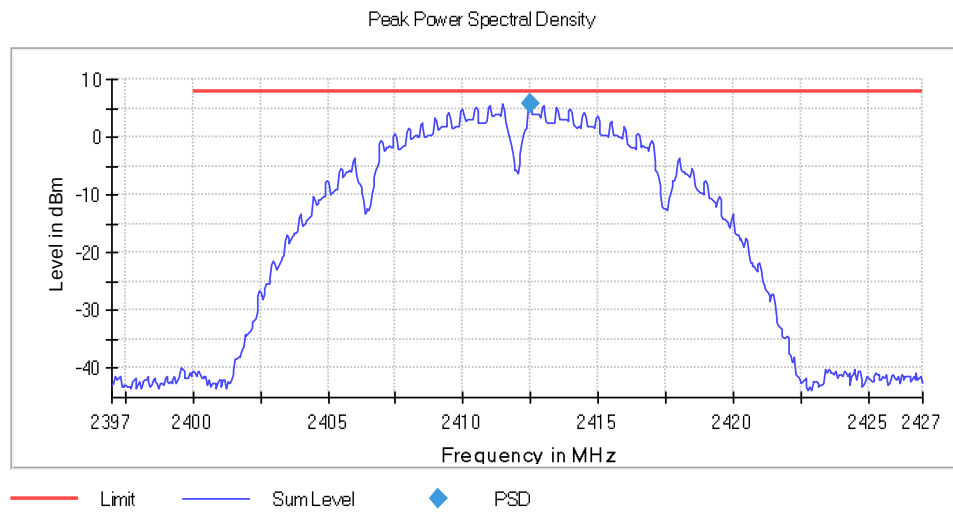
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2, Mode 3	
Remark	RBW=100 kHz, VBW=300 kHz	

Results for BU part

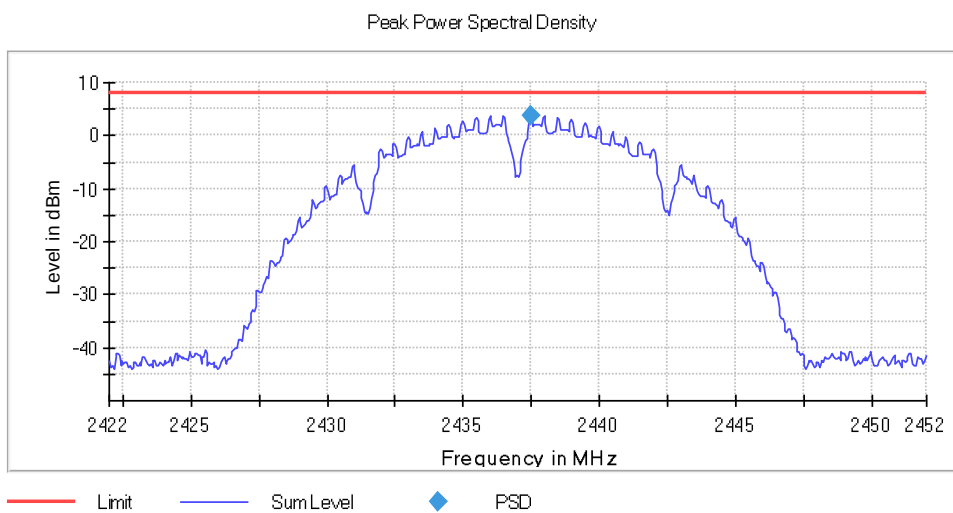
Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm/3kHz)	Result
Mode 1	1	2412	5.762	≤8	Pass
	6	2437	3.827	≤8	Pass
	11	2462	3.881	≤8	Pass
Mode 2	1	2412	-1.909	≤8	Pass
	6	2437	-1.704	≤8	Pass
	11	2462	-1.463	≤8	Pass
Mode 3	1	2412	-1.597	≤8	Pass
	6	2437	-1.642	≤8	Pass
	11	2462	-1.210	≤8	Pass

Test figure:

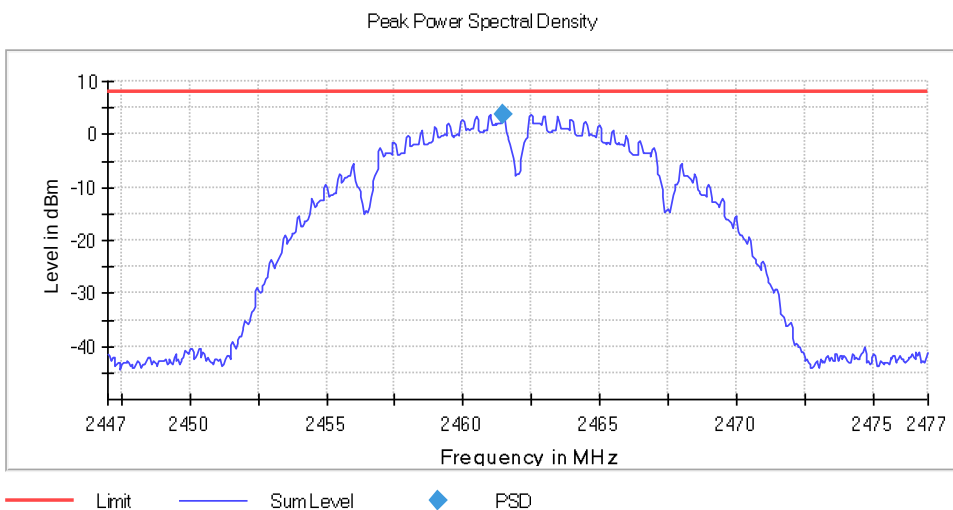
Mode 1 @channel 1



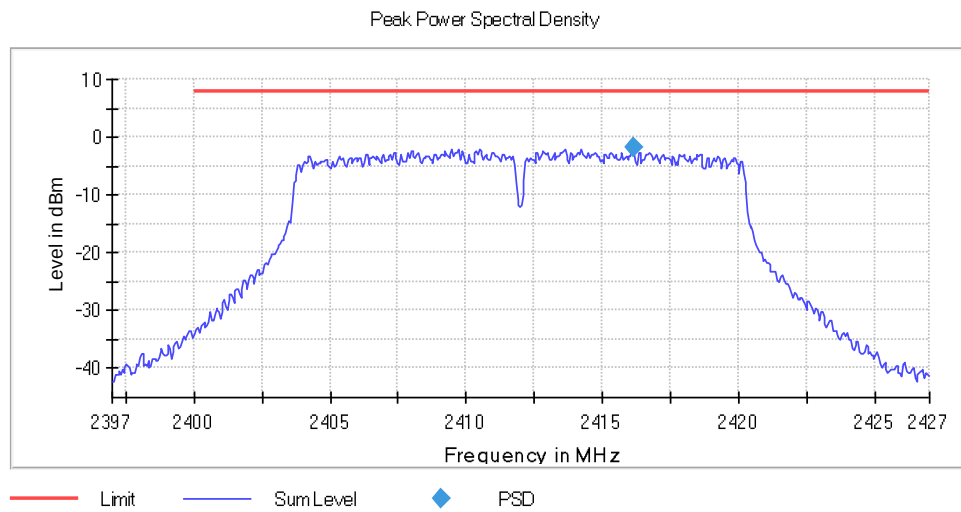
Mode 1 @channel 6



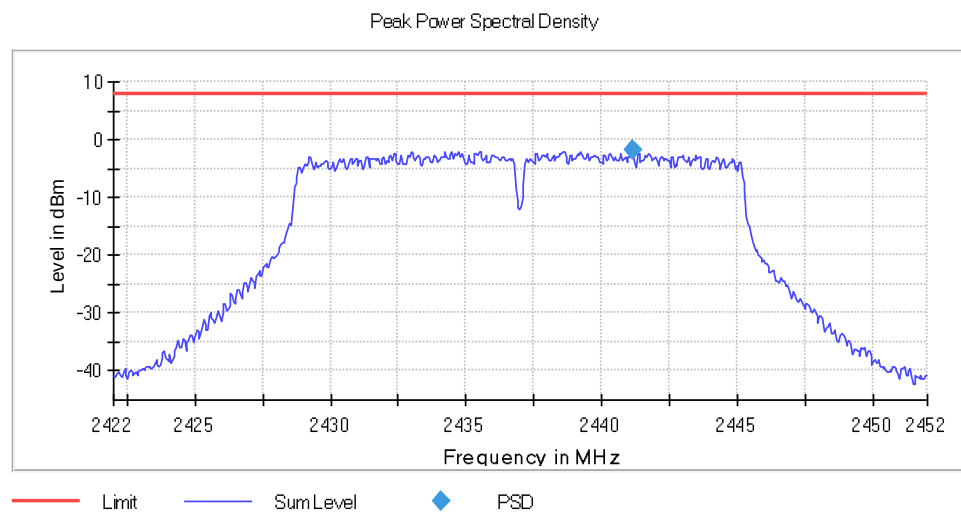
Mode 1 @channel 11



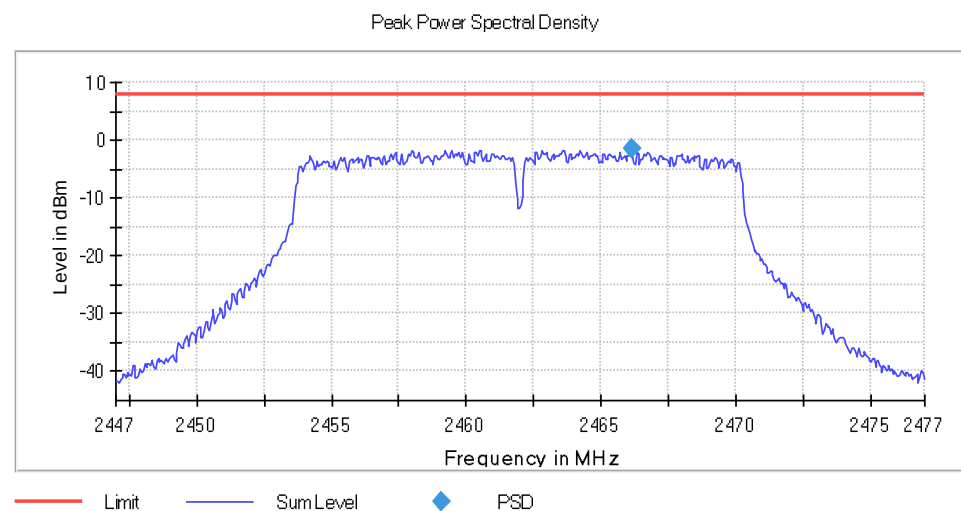
Mode 2 @channel 1



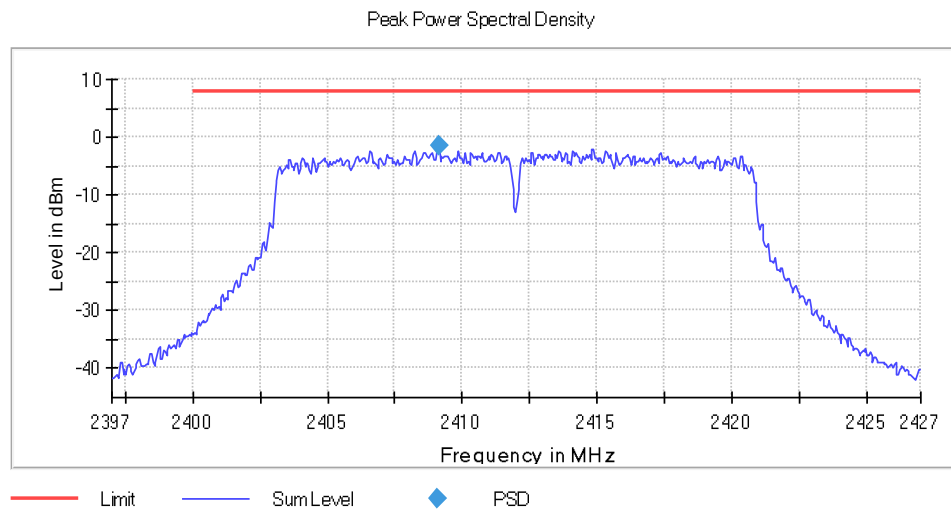
Mode 2 @channel 6



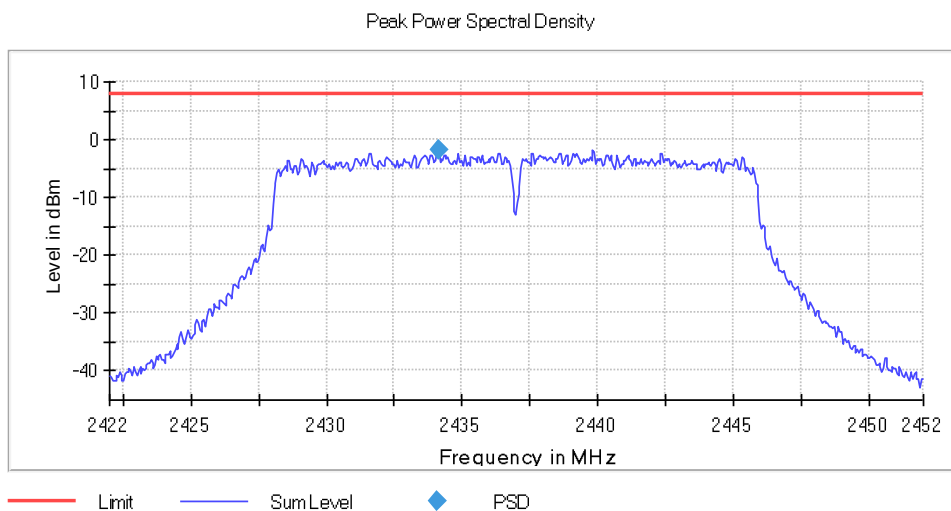
Mode 2 @channel 11



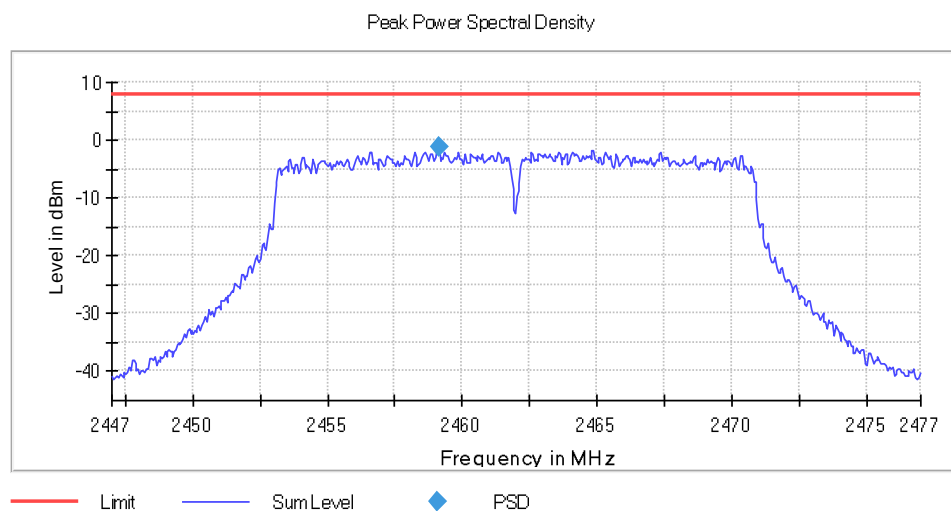
Mode 3 @channel 1



Mode 3 @channel 6



Mode 3 @channel 11



5 IDENTIFICATION OF THE EQUIPMENT UNDER TEST

The photographs show the tested device.

Refer to documents 4920711_ External photo and 4920711_ Internal photo.

ANNEX 1 – MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
AC Power Lines Conducted Emission	±2.82dB
Occupied Channel Bandwidth	±0.7%
RF Output power, conducted	±0.6dB
Power Spectral Density, Conducted	±0.6dB
Unwanted Emissions, Conducted	±0.7dB
Radiated Emission (9kHz - 30MHz)	±3.58dB
Radiated Emission (30 - 300MHz)	±4.72dB
Radiated Emission (300 - 1000MHz)	±4.88dB
Radiated Emission (1 - 18GHz)	±4.66dB
Radiated Emission (18 - 26GHz)	±4.52dB
Radiated Emission (26 – 40 GHz)	±4.95dB
Temperature	1.0 °C
Humidity	6%

ANNEX 2 - USED EQUIPMENT

Continuous disturbances conducted (150 kHz to 30 MHz)

Item	Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Due date
1	EMI Receiver	R&S	ESCI	101206	G/L858	2024/07/02
2	LISN	R&S	ENV216	101336	G/L859	2024/07/02
3	Shielding Room	Changzhou Feite	/	/	G/L861	2025/03/24

Emissions in non-restricted frequency bands/ Emissions in restricted frequency bands

Item	Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Due date
1	EMI receiver	R&S	ESCI	101205	G/L857	2024/07/02
2	Antenna (30MHz-2GHz)	SCHWARZBECK	VULB9168	01229	GZ2018	2025/03/19
3	Chamber	ETS	/	/	G/L856	2026/02/25
4	Antenna (1GHz-18GHz)	R&S	HF907	102306	G/L1236	2025/02/03
5	Horn antenna preamplifier	EMC Instruments corporation	EMC051845 SE	980778	GZ2009	2025/01/27
6	Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2025/01/09
7	HF antenna (18 – 26.5 GHz)	ETS	3160-09	00164643	G/L1237	2025/02/28
8	High frequency antenna preamplifier (18 – 26.5 GHz)	Schwarzbeck	SCU-26	1879064	G/L1237-1	2025/01/24
9	Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	00908	GZ1901	2025/06/04
10	Horn antenna preamplifier	EMCI	EMC264045 SE	980679	GZ1901-1	2025/06/04
11	Annular magnetic field antenna	TESEQ	HLA6121	540045	GZ1905	2025/05/05

Duty cycle/Band Edge/Fundamental emission output power/DTS Bandwidth/Power Spectral Density

Item	Instrumentation	Manufacturer	Model	Serial no.	DEKRA No.	Cal Due date
1	Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2025/01/09
2	OSP	R&S	OSP 150	101907	GZ1894	2025/02/01

ANNEX 3 - TEST PHOTOS

Refer to document 4920711 _Test setup.

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