

Test report No: 4395567.58

TEST REPORT

Radio Spectrum Matters (RF)

Identification of item tested	C-shape couples' vibrator			
Trademark	We-Vibe Sync Lite			
Model and /or type reference	SCL2A			
FCC ID	ZUESCL2A			
Features	5 Vdc, 0,5 A			
Applicant's name / address	WOW Tech Canada Ltd.,			
, , , , , , , , , , , , , , , , , , , ,	1545 Carling Avenue, Suite 401. Ottawa, Ontario, K1Z 8P9, Canada			
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 Tim Yan			
Date of issue	2022-11-23			
Report template No	TRF_EMC 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.
- 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

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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						

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 PlaneVCP : Vertical Coupling Plane

U_N : Nominal voltageTx : TransmitterRx : Receiver

N/A : Not Applicable N/M : Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
4395567.54	2022-11-23	First release.

REMARKS AND COMMENTS

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

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1 **GENERAL INFORMATION**

1.1 General Description of the Item(s)

[0.1					
Description of the item	C-shape couples' vibrator					
Trademark:	We-Vibe Sync Lite					
Model / Type number:	SCL2A					
FCC ID	ZUESCL2A					
Ratings:	5 Vdc, 0,5 A					
Manufacturer	WOW Tech Europe GmbH					
	Hermann-Blankenstein-Str. 5, 10249 Berlin, Germany					
Factory:	WOW Tech (Shanghai) Co., Ltd.					
	Building 14 & Building 19, No.3398 Puwei Road, Fengxian District,					
	Shanghai,P.R. China					
Operating frequency range(s) – Tx.:	2402-2480 MHz					
Operating frequency range(s) – Rx:	2402-2480 MHz					
Maximum RF output power (conducted)	-6,9 dBm					
E.I.R.P	-1,9 dBm					
Type of Modulation:	GFSK					
PHYs:	LE 1M, LE 2M					
Data Rate	1 Mbit/s, 2 Mbit/s					
Antenna type	Integral Antenna					
Antenna gain	5,0 dBi					
Number of channel	40					
Operating Temperature Range:	-20 − 45 °C					
Rated power supply:	Voltage and Frequency		Refe	rence	ooles	
	Voltage and Frequency	L1	L2	L3	Ν	PE
	AC: 220 – 240 V, 50/60 Hz					
	□ DC: 5 V					
	Battery: 3 V					
Mounting position	Table top equipment					
	Wall/Ceiling mounted equipment					
	Floor standing equipment Hand-held equipment					
	☐ Other:					
	Culoi.					
Intended use of the Equipment Under	Test (EUT)					
The apparatus as supplied for the test is C-shape couples' vibrator which intended for residential use, the						
product contains electronic control circuitry.						
Copy of marking plate:						

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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;
Date of receipt of test item	ISED CAB identifier: CN0130 2022-10-13
Date (s) of performance of tests	2022-10-13 to 2022-11-18

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):

\boxtimes	Residential (domestic) environment.
\boxtimes	Commercial and light-industrial environment.
	Industrial environment.

1.4 Channel List

Bluetooth Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
37	2402 MHz	00	2404 MHz	01	2406 MHz	02	2408 MHz
03	2410 MHz	04	2412 MHz	05	2414 MHz	06	2416 MHz
07	2418 MHz	08	2420 MHz	09	2422 MHz	10	2424 MHz
38	2426 MHz	11	2428 MHz	12	2430 MHz	13	2432 MHz
14	2434 MHz	15	2436 MHz	16	2438 MHz	17	2440 MHz
18	2442 MHz	19	2444 MHz	20	2446 MHz	21	2448 MHz
22	2450 MHz	23	2452 MHz	24	2454 MHz	25	2456 MHz
26	2458 MHz	27	2460 MHz	28	2462 MHz	29	2464 MHz
30	2466 MHz	31	2468 MHz	32	2470 MHz	33	2472 MHz
34	2474 MHz	35	2476 MHz	36	2478 MHz	39	2480 MHz

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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 methos				
mode	mode Operating mode description		Radiated			
1	Transmitting at 1 Mbit/s,	\boxtimes	\boxtimes			
2	Transmitting at 2 Mbit/s,	\boxtimes	\boxtimes			
3						
4						
Supplemen	Supplemental information:					

2.2 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
Supplemental information:			

2.3 Test Configuration / Block diagram used for tests

Refer to Annex 3.

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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	2022	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and
Subpart C Section 15.247		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)							
FCC 15.207	PASS						
FCC 15.247(d), FCC 15.209	PASS						
FCC 15.247(b)(3)	PASS						
ANSI C63.10:2013	PASS						
FCC 15.247(d)	PASS						
FCC 15.247(d), FCC 15.209	PASS						
FCC 15.247(a)(2)	PASS						
FCC 15.247(e)	PASS						
FCC 15.203	PASS						
	FCC 15.207 FCC 15.247(d), FCC 15.209 FCC 15.247(b)(3) ANSI C63.10:2013 FCC 15.247(d) FCC 15.247(d), FCC 15.209 FCC 15.247(a)(2) FCC 15.247(e)	FCC 15.207 PASS FCC 15.247(d), FCC 15.209 PASS FCC 15.247(b)(3) PASS ANSI C63.10:2013 PASS FCC 15.247(d) PASS FCC 15.247(d), FCC 15.209 PASS FCC 15.247(a)(2) PASS FCC 15.247(e) PASS					

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.

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3.4 Measurement procedure

The EUT was controlled by a serial PCB which provided by manufacturer which connected to laptop through the com port. After connected, run the software "EMI_Tool" supplied by manufacturer to control the EUT work in required test mode as below table.

Mode	Frequency		
Wode	(MHz)		
	2402		
BLE	2440		
	2480		

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4 TRANSMITTER TEST RESULTS

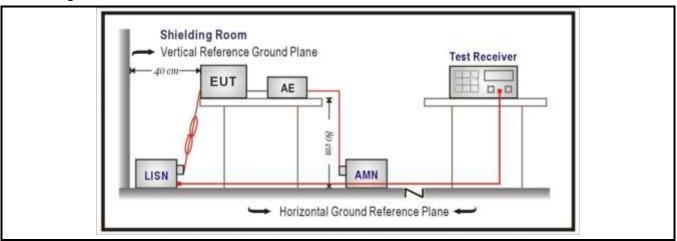
4.1 AC Power Line Conducted Emission VERDICT	S
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Limits

FCC Part 15 Subpart C Paragraph 15.207								
Frequency range [MHz] Limit: QP [dB(μ V) ¹⁾] Limit: AV [dB(μ V) 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.

Test Configuration



Performed measurements

Port under test		Terminal								
		\boxtimes	N	\boxtimes	L1		L2		L3	
☐ DC input power			☐ Positive (+) ☐ Negative (-))			
Test method applied		Artificial mains net	work							
		☐ Voltage probe								
Test setup		Table top		Artificial hand applied						
	☐ Floor standing			Other:						
	Refe	to the Annex 2 for	test se	tup photo	(s).					
Operating mode(s) used	Mode	Mode 1, Mode 2								
Envirment condition (temperature; humidiry)	23,0 °C; 45,0 %									
Remark										

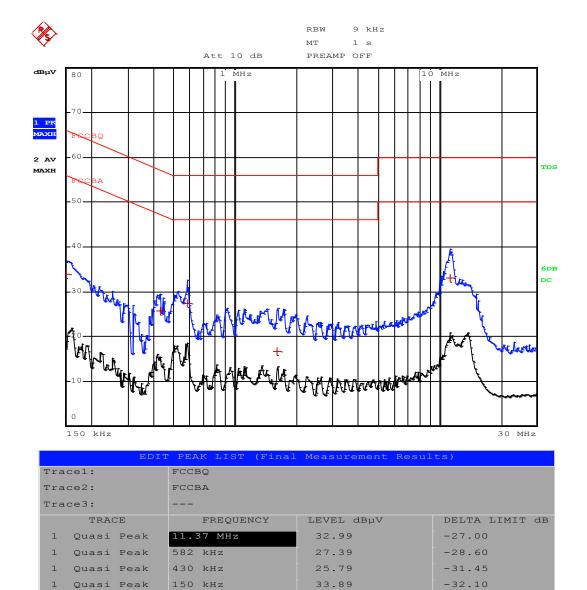
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²⁾ The limit decreases linearly with the logarithm of the frequency.



Model	SCL2A
Operation Mode	Mode 1
Test voltage	120 Vac, 60 Hz

Results Live



Remarks:

1) Level (final measurement) = received value + transducer (Lisn+cable)

1.602 MHz

Quasi Peak

2) Delta = Level - Limit

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

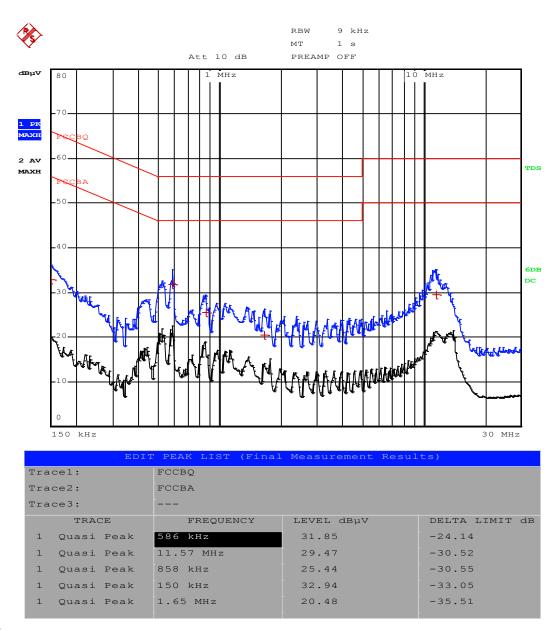
16.66

-39.33

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Neutral



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.

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4.2 Emissions in non-restricted frequency bands VERDICT: PASS

Emissions Limit 15.209(a)							
Frequency (MHz)	Field strength (μV/m)	Field strength (dBµV/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)				

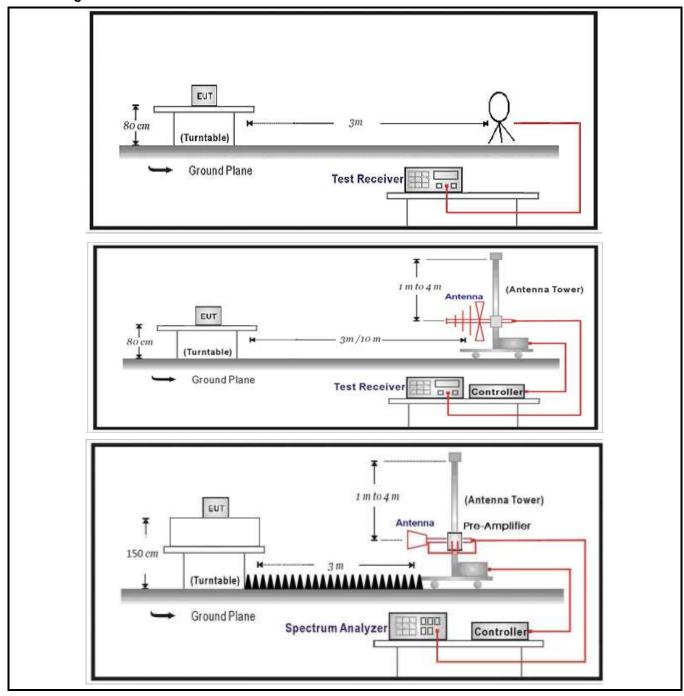
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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).

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Test Configuration



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Performed measurements

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

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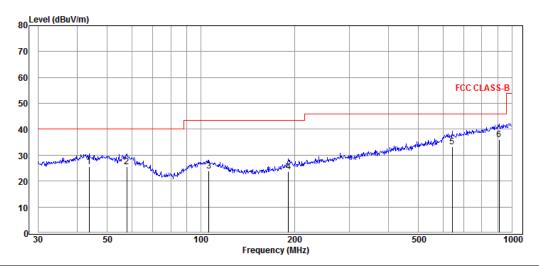
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Results of 30 - 1000 MHz

Model	SCL2A
Operation Mode	Mode 1 @2402MHz (worst case)
Test voltage	

Results Horizontal



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
43,66	9,73	15,91	25,64	40,00	14,36
57,80	9,31	16,23	25,54	40,00	14,46
106,01	10,16	13,88	24,04	43,50	19,46
191,07	10,31	13,36	23,67	43,50	19,83
642,86	10,43	22,87	33,30	46,00	12,70
909,67	9,69	26,28	35,97	46,00	10,03

Remarks:

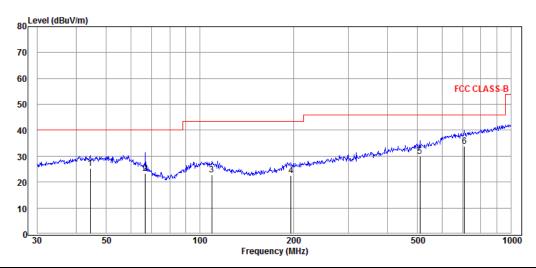
- 1) C.F (Correction Factor) = Antenna factor + Cable loss Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

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

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Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
44,43	9,38	15,81	25,19	40,00	14,81
66,73	11,07	12,18	23,25	40,00	16,75
109,03	9,09	13,84	22,93	43,50	20,57
196,51	9,27	13,26	22,53	43,50	20,97
510,04	9,16	20,77	29,93	46,00	16,07
709,18	10,15	23,71	33,86	46,00	12,14

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.

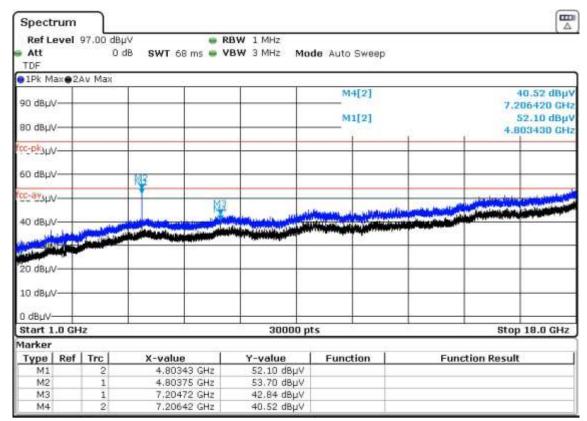
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Results of 1 - 18 GHz

Model	SCL2A
Operation Mode	Mode 1 @2402 MHz
Test voltage	

Results Horizontal



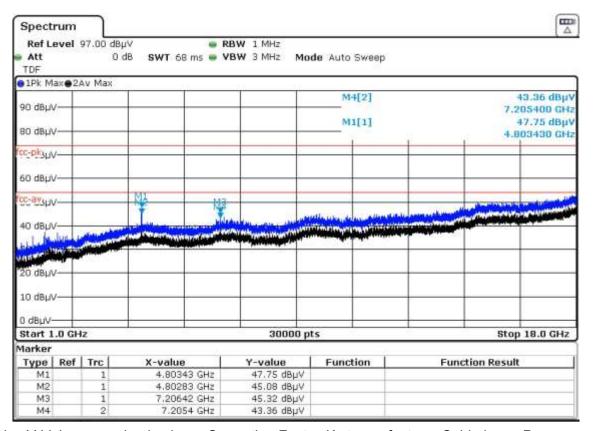
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

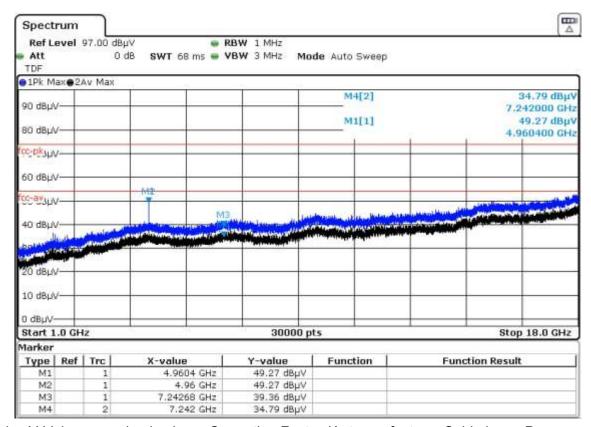
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Model	SCL2A
Operation Mode	Mode 1 @2480 MHz
Test voltage	

Results Horizontal



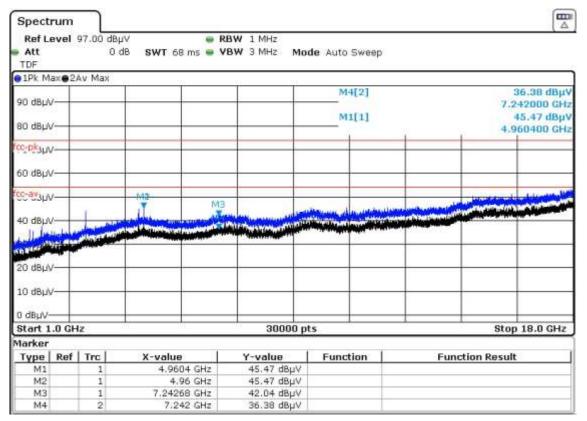
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

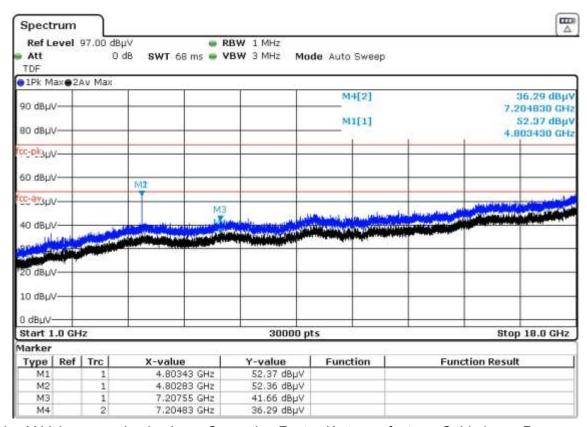
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Model	SCL2A
Operation Mode	Mode 2 @2402 MHz
Test voltage	

Results Horizontal



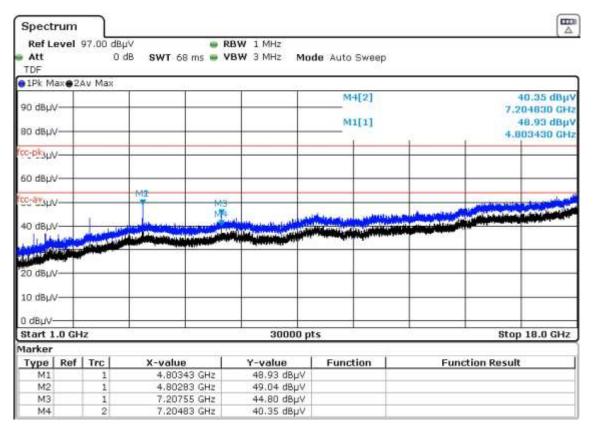
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

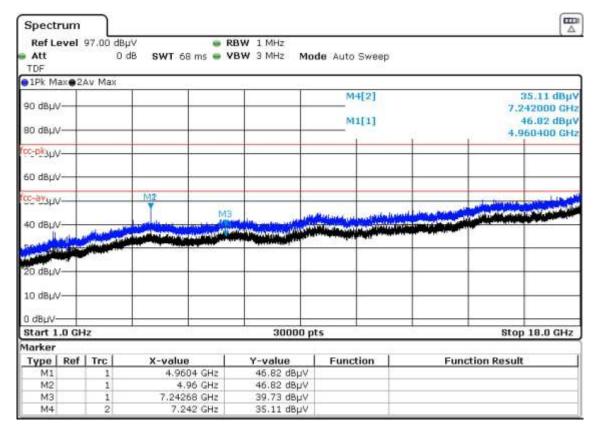
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Model	SCL2A
Operation Mode	Mode 2 @2480 MHz
Test voltage	

Results Horizontal



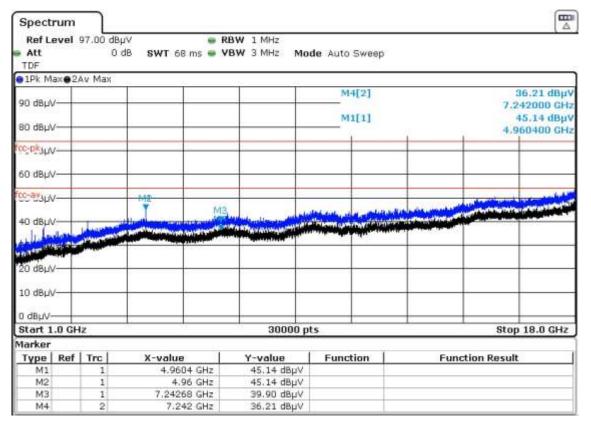
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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4.3 Emissions in restricted frequency bands VERDICT: PASS

Restricted Bands of oper	ation of FCC		
Frequency	Frequency	Frequency	Frequency
(MHz)	(MHz)	(MHz)	(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			
estricted Bands of oper	ation 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		

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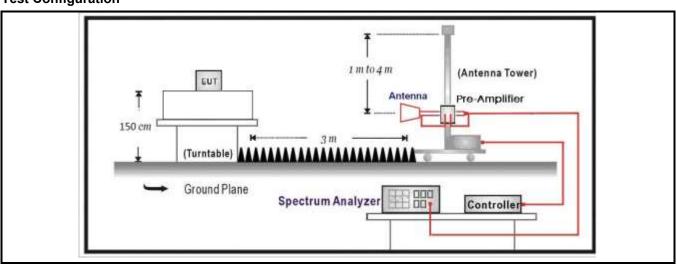


Restricted Band Emissions Limit					
Frequency (MHz)	Field strength (μV/m)	Field strength (dBµV/m)	Measurement distance (m)		
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)		
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)		
1.705 - 30	30	29.5	30(Note 1)		
30 - 88	100	40	3 _(Note 2)		
88 - 216	150	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



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Performed measurements

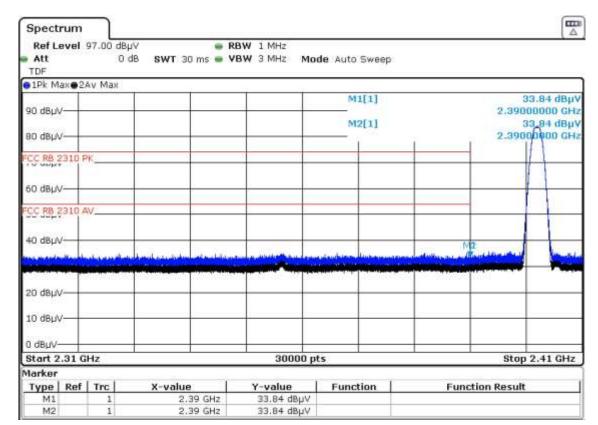
	1	
Port under test	Enclosure port	
Test method applied		Conducted measurement
	\boxtimes	Radiated measurement
Test setup	Refer	to the Annex 3 for test setup photo(s).
Operating mode(s) used	Mode 1, Mode 2	
Remark		

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Model	SCL2A
Operation Mode	Mode 1 @2402 MHz
Test voltage	

Results Horizontal



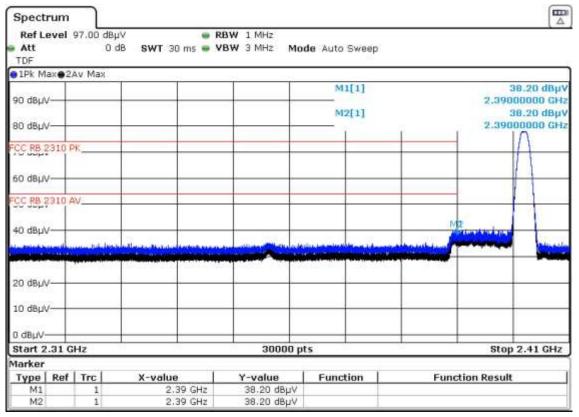
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

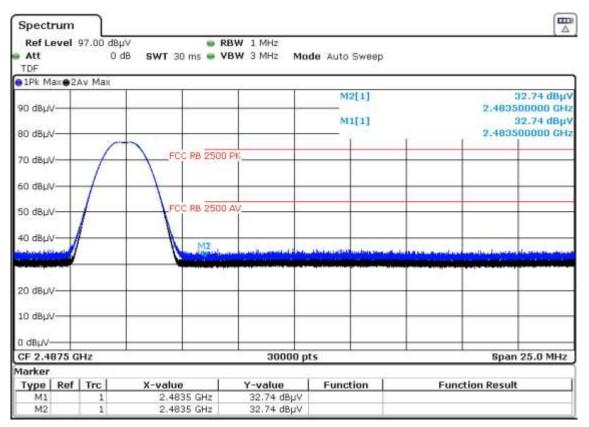
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Model	SCL2A
Operation Mode	Mode 1 @2480 MHz
Test voltage	

Results Horizontal



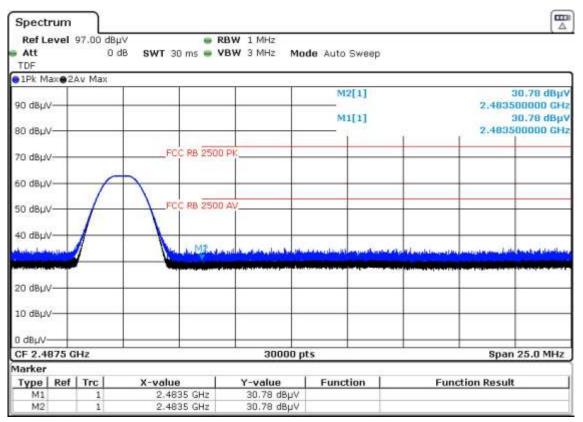
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

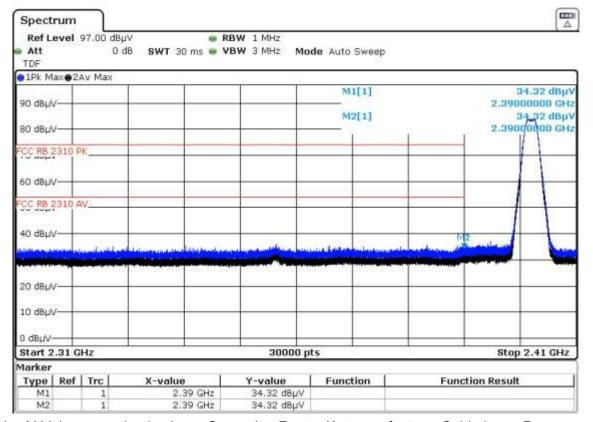
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Model	SCL2A
Operation Mode	Mode 2 @2402 MHz
Test voltage	

Results

Horizontal



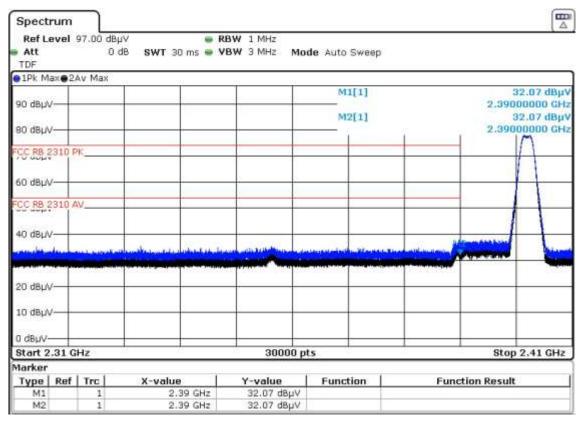
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

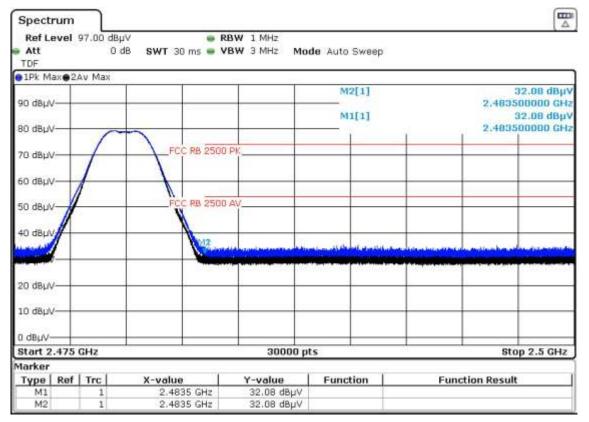
.

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Model	SCL2A
Operation Mode	Mode 2 @2480 MHz
Test voltage	

Results Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

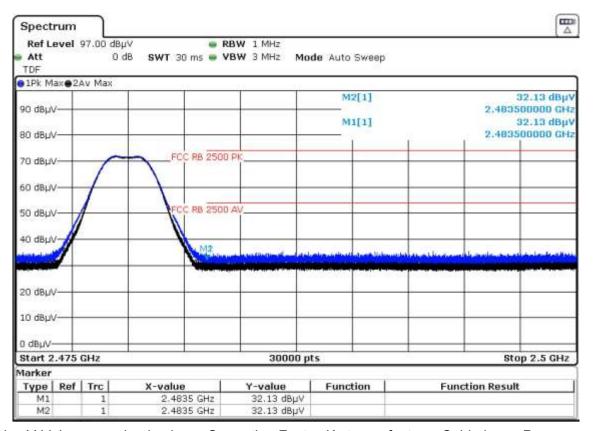
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

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

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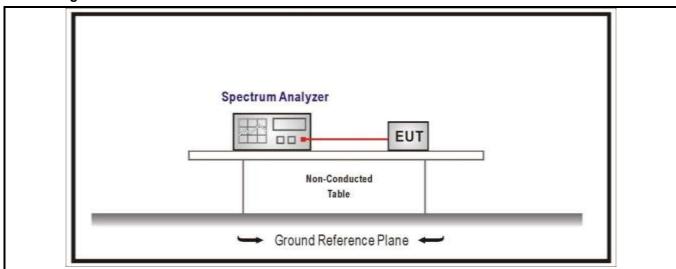
4.4 Band Edge VERDICT: PASS

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 LEvel 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

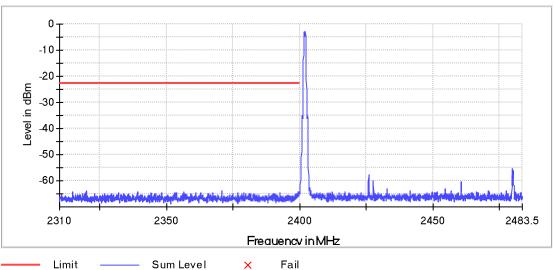
Port under test	Antenna port		
Test method applied	☐ Conducted measurement		
		Radiated measurement	
Test setup	Refe	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2		
Remark			

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Results of mode 1 @2402 MHz





Inband Peak

Frequency	Level
(MHz)	(dBm)
2402.0000	-2,9

Measurements

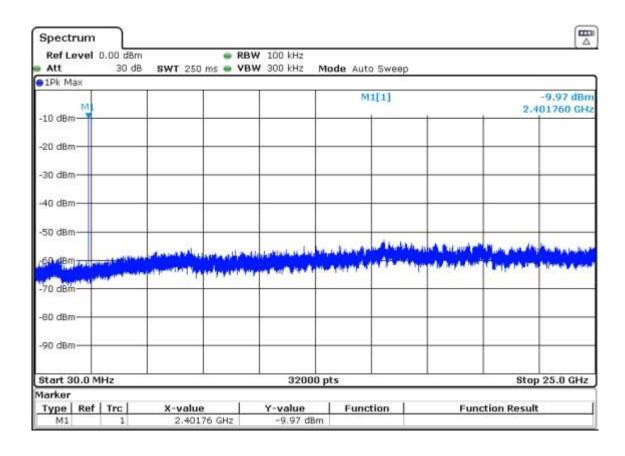
Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2370.925000	-63.7	40.8	-22.9	PASS
2319.975000	-64.0	41.1	-22.9	PASS
2399.575000	-64.0	41.2	-22.9	PASS
2370.875000	-64.1	41.2	-22.9	PASS
2399.525000	-64.2	41.3	-22.9	PASS
2339.375000	-64.2	41.4	-22.9	PASS
2314.925000	-64.4	41.5	-22.9	PASS
2339.425000	-64.4	41.5	-22.9	PASS
2356.725000	-64.4	41.5	-22.9	PASS
2339.325000	-64.4	41.5	-22.9	PASS
2361.125000	-64.5	41.6	-22.9	PASS
2353.775000	-64.5	41.6	-22.9	PASS
2348.225000	-64.5	41.6	-22.9	PASS
2370.975000	-64.5	41.7	-22.9	PASS
2367.425000	-64.6	41.7	-22.9	PASS

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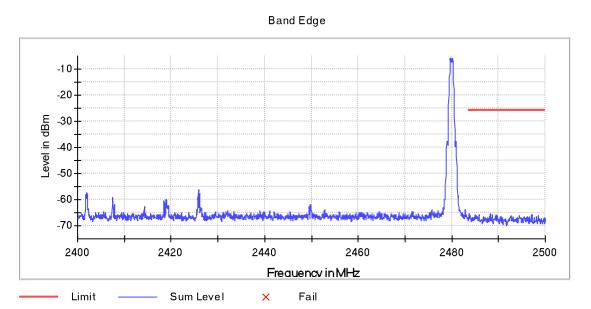
Additional test figure



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Results of mode 1 @2480 MHz



Inband Peak

Frequency	Level
(MHz)	(dBm)
2480.0000	-5,8

Measurements

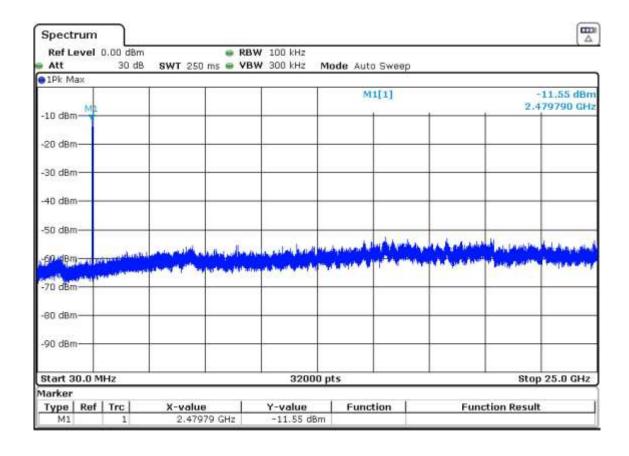
Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2483.725000	-65.3	39.4	-25.8	PASS
2488.225000	-65.4	39.6	-25.8	PASS
2483.775000	-65.5	39.7	-25.8	PASS
2488.275000	-65.6	39.7	-25.8	PASS
2485.825000	-65.7	39.9	-25.8	PASS
2488.625000	-65.7	39.9	-25.8	PASS
2484.975000	-65.8	40.0	-25.8	PASS
2489.425000	-65.9	40.1	-25.8	PASS
2488.675000	-65.9	40.1	-25.8	PASS
2497.125000	-65.9	40.1	-25.8	PASS
2497.075000	-66.0	40.1	-25.8	PASS
2484.925000	-66.0	40.1	-25.8	PASS
2489.775000	-66.0	40.2	-25.8	PASS
2489.825000	-66.0	40.2	-25.8	PASS
2494.425000	-66.0	40.2	-25.8	PASS

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Additional test figure

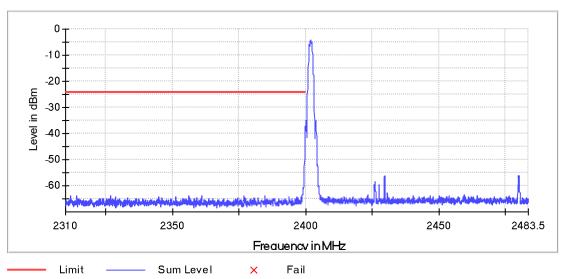


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Results of mode 2 @2402 MHz





Inband Peak

Frequency	Level
(MHz)	(dBm)
2402.0000	-4,4

Measurements

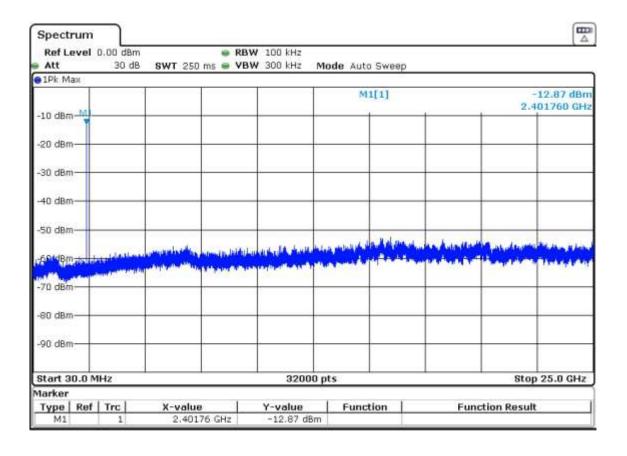
Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2399.975000	-36.8	12.4	-24.4	PASS
2399.925000	-37.3	12.9	-24.4	PASS
2399.875000	-37.6	13.2	-24.4	PASS
2399.825000	-39.8	15.4	-24.4	PASS
2399.775000	-42.0	17.6	-24.4	PASS
2399.725000	-42.9	18.5	-24.4	PASS
2399.675000	-45.5	21.1	-24.4	PASS
2399.625000	-47.7	23.3	-24.4	PASS
2399.575000	-49.5	25.2	-24.4	PASS
2399.525000	-52.6	28.2	-24.4	PASS
2399.425000	-53.1	28.7	-24.4	PASS
2399.475000	-53.2	28.9	-24.4	PASS
2399.375000	-55.0	30.6	-24.4	PASS
2399.325000	-59.0	34.6	-24.4	PASS
2399.225000	-60.2	35.9	-24.4	PASS

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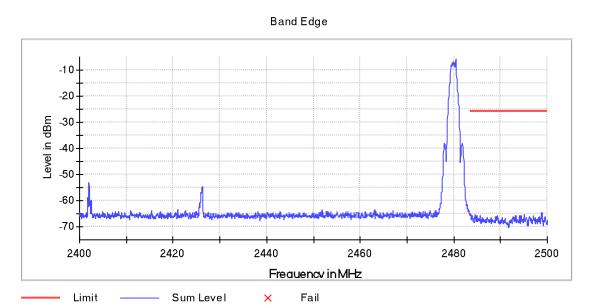
Additional test figure



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Results of mode 1 @2480 MHz



Inband Peak

Frequency	Level
(MHz)	(dBm)
2480.0000	-5,7

Measurements

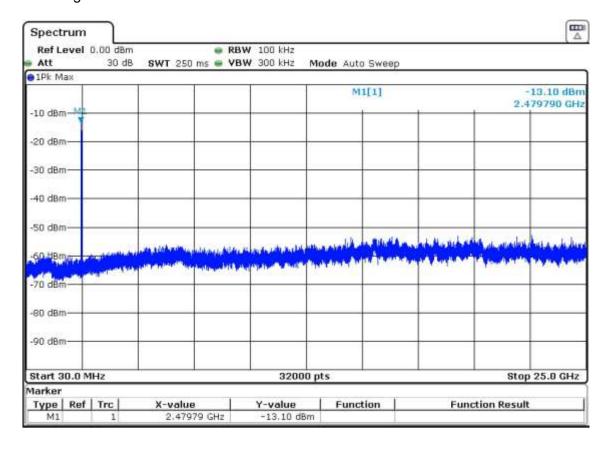
Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2498.825000	-64.7	39.0	-25.7	PASS
2498.775000	-64.8	39.1	-25.7	PASS
2483.525000	-65.0	39.3	-25.7	PASS
2483.575000	-65.2	39.5	-25.7	PASS
2484.575000	-65.3	39.6	-25.7	PASS
2483.625000	-65.4	39.7	-25.7	PASS
2484.525000	-65.4	39.7	-25.7	PASS
2495.025000	-65.4	39.7	-25.7	PASS
2497.025000	-65.6	39.9	-25.7	PASS
2493.275000	-65.6	39.9	-25.7	PASS
2493.225000	-65.6	39.9	-25.7	PASS
2489.325000	-65.7	40.0	-25.7	PASS
2489.375000	-65.7	40.0	-25.7	PASS
2494.075000	-65.7	40.0	-25.7	PASS
2494.125000	-65.8	40.0	-25.7	PASS

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Additional test figure



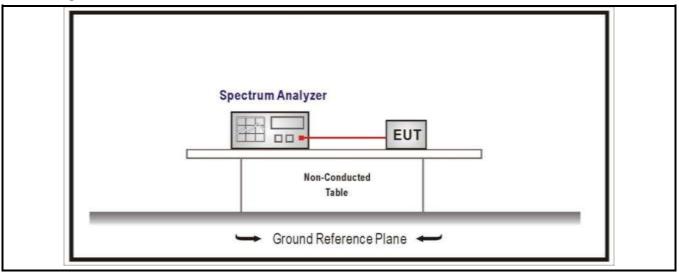
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4.5 Duty cycle VERDICT: PASS

Test Configuration



Performed measurements

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

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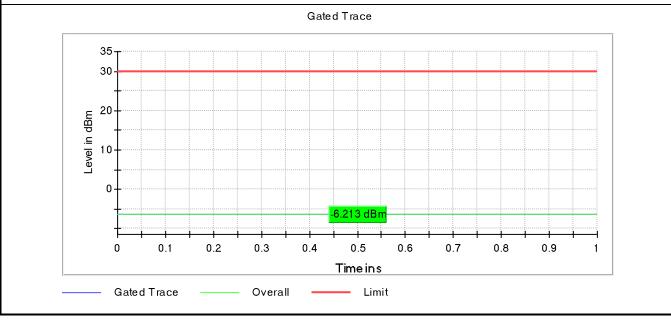
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Results

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 ≥ 1/T will be used.



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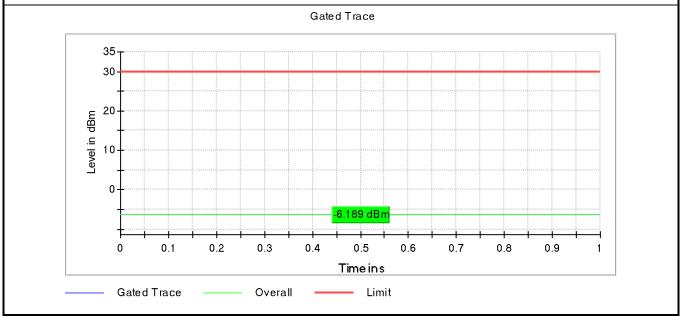
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Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 2			100%

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 ≥ 1/T will be used.



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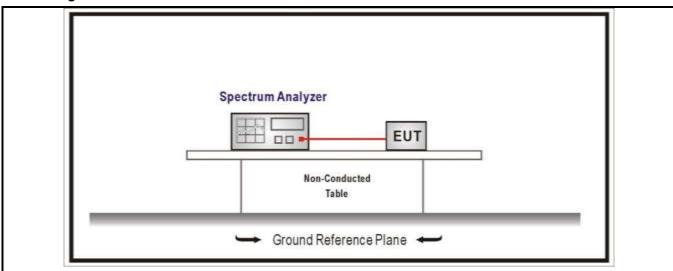


4.6 DTS Bandwidth VERDICT: PASS

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	\boxtimes	Conducted measurement
		Radiated measurement
Test setup	Refer	to the Annex 3 for test setup photo(s).
Operating mode(s) used	Mode 1, Mode 2	
Remark		

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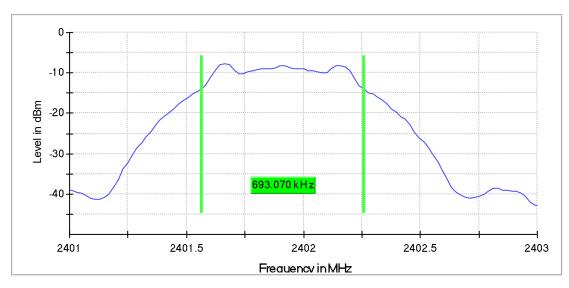
Results

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
4	37	2402	693,07	>500	Pass
ı,	39	2480	693,07	>500	Pass

6dB Occupied Bandwidth

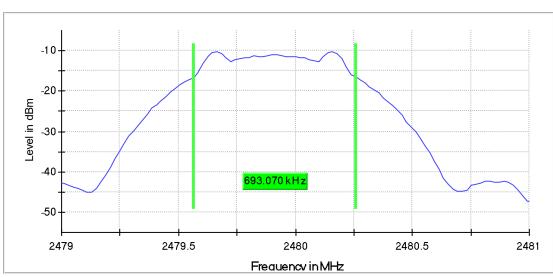
Mode 1 / CH37 (2402MHz)

6 dB Bandwidth



Mode 1 / CH39 (2480MHz)

6 dB Bandwidth



Supplementary information: RBW=100 kHz, VBW=300 kHz

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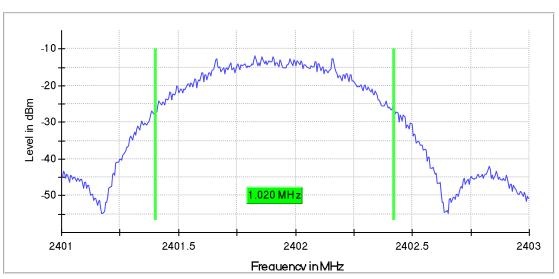


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
1	37	2402	1.020	Within frequency range	Pass
	39	2480	1.005	Within frequency range	Pass

99% Occupied Bandwidth

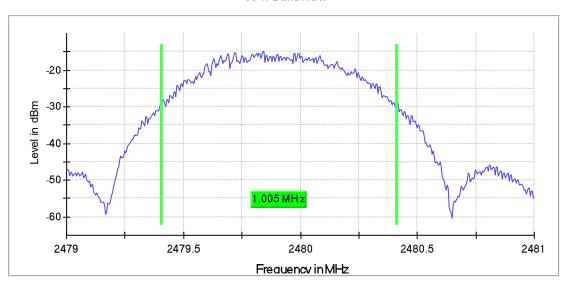
Mode 1 / CH37 (2402 MHz)

99 % Bandwidth



Mode 1 / CH39 (2480 MHz)

99 % Bandwidth



Supplementary information: RBW=30 kHz, VBW=100 kHz

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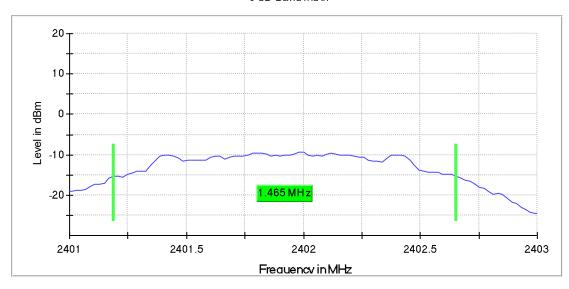


Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
2	37	2402	1465,34	>500	Pass
2	39	2480	1267,32	>500	Pass

6dB Occupied Bandwidth

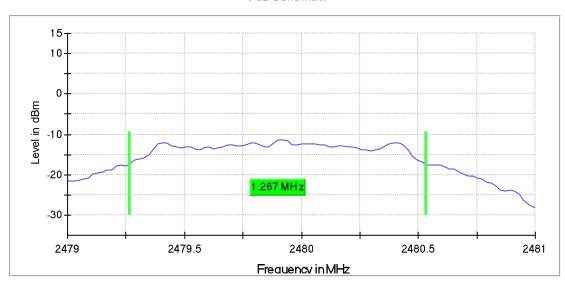
Mode 2 / CH37 (2402MHz)

6 dB Bandwidth



Mode 1 / CH39 (2480MHz)

6 dB Bandwidth



Supplementary information: RBW=100 kHz, VBW=300 kHz

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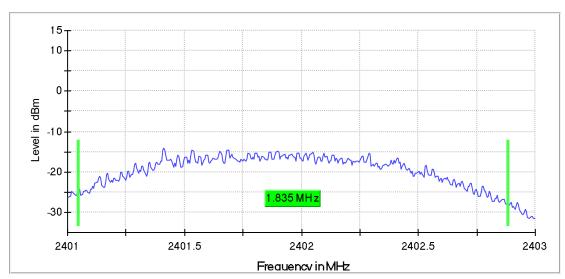


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2	37	2402	1,835	Within frequency range	Pass
	39	2480	1,825	Within frequency range	Pass

99% Occupied Bandwidth

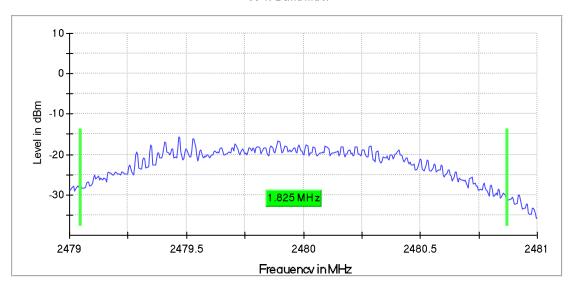
Mode 2 / CH37 (2402 MHz)

99 % Bandwidth



Mode 2 / CH39 (2480 MHz)

99 % Bandwidth



Supplementary information: RBW=30 kHz, VBW=100 kHz

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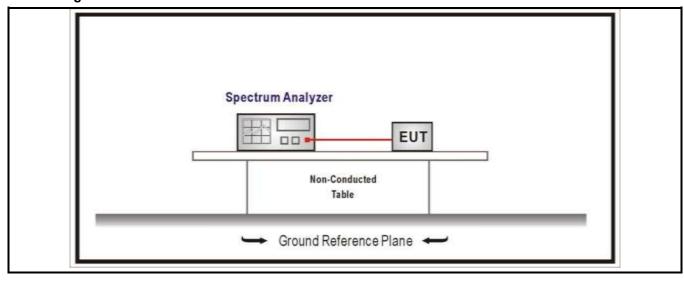
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4.7 Fundamental emission output power VERDICT: PASS

Stan	Standard FCC Pa		FCC Pa	art 15 Subpart C Paragraph 15.247 (b)(3)
\boxtimes	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
	singby LE directional beam		I	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	\boxtimes	Conducted measurement
	Radiated measurement	
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1, Mode 2	
Remark	RBW=2 MHz, VBW=10 MHz	

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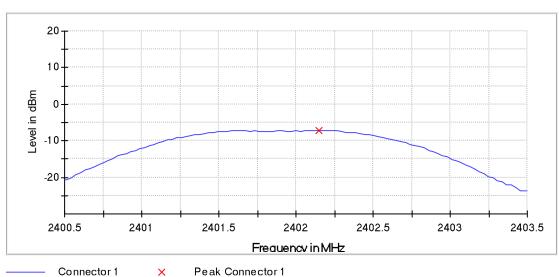
Results

Mode	Channel	Test Frequency (MHz)	Conducted Power Output (dBm)	EIRP (dBm)	Limit (dBm)	Result
	37	2402	-7,2	-2,2	≤30	Pass
Mode 1	17	2440	-8,3	-3,3	≤30	Pass
	39	2480	-9,6	-4,6	≤30	Pass
	37	2402	-6,9	-1,9	≤30	Pass
Mode 2	17	2440	-8,1	-3,1	≤30	Pass
	39	2480	-9,2	-4,2	≤30	Pass

Test figure

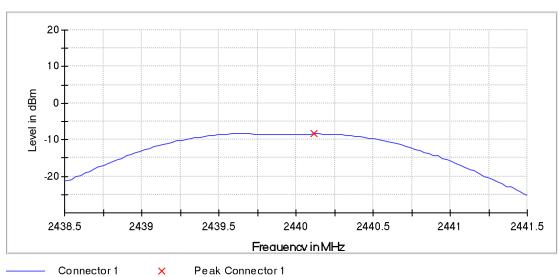
Mode 1, Channel 37

Peak Power



Mode 1, Channel 17

Peak Power

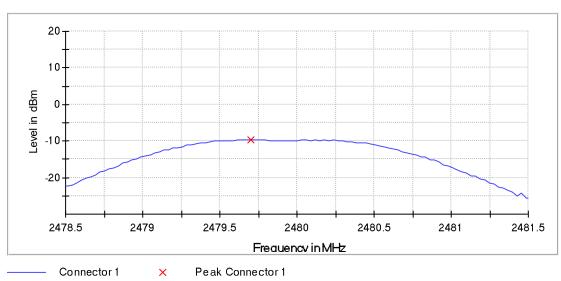


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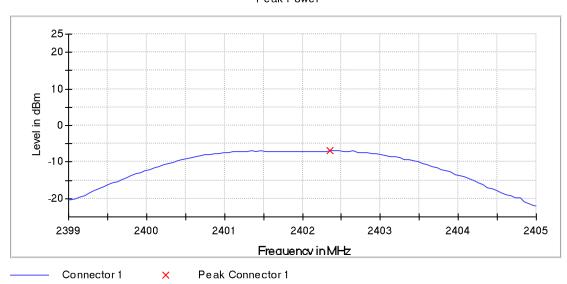
Mode 1, Channel 39





Mode 2, Channel 37

Peak Power

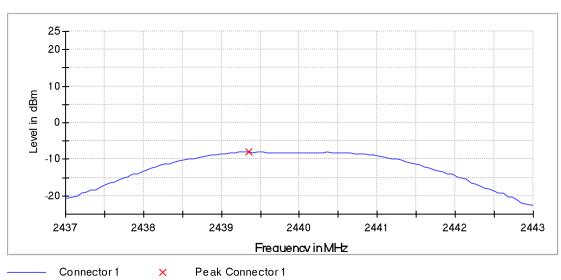


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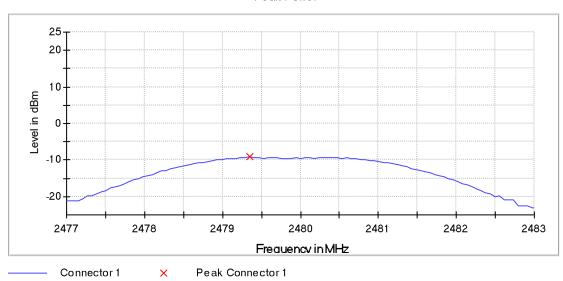
Mode 2, Channel 17





Mode 2, Channel 39

Peak Power



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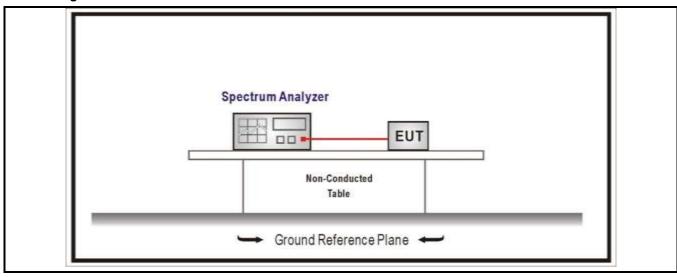
PASS

VERDICT:

4.8 Power Density

StandardFCC 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	\boxtimes	Conducted measurement	
		Radiated measurement	
Test setup	Refer to the Annex 3 for test setup photo(s).		
Operating mode(s) used	Mode 1, Mode 2		
Remark	RBW	=10 kHz, VBW=30 kHz	

Results

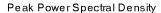
Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm/3kHz)	Result
	37	2402	-12,472	≤8	Pass
Mode 1	17	2440	-14,086	≤8	Pass
	39	2480	-14,691	≤8	Pass
	37	2402	-15,693	≤8	Pass
Mode 2	17	2440	-16,939	≤8	Pass
	39	2480	-17,389	≤8	Pass

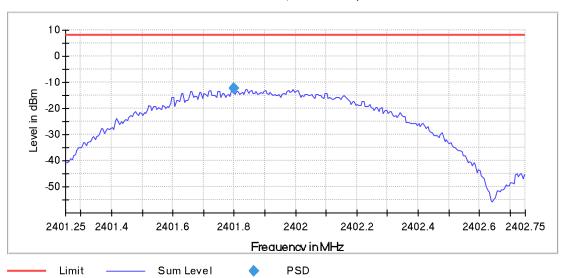
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Test figure

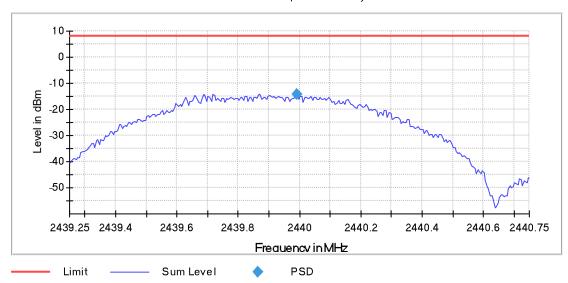
Mode 1, Channel 37





Mode 1, Channel 17

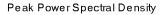
Peak Power Spectral Density

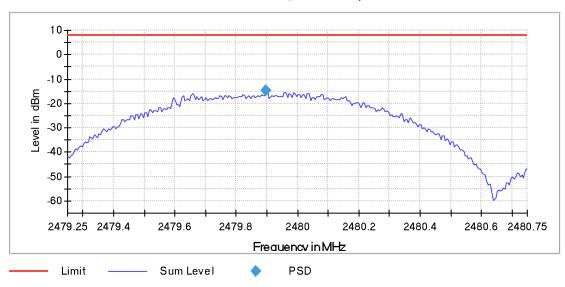


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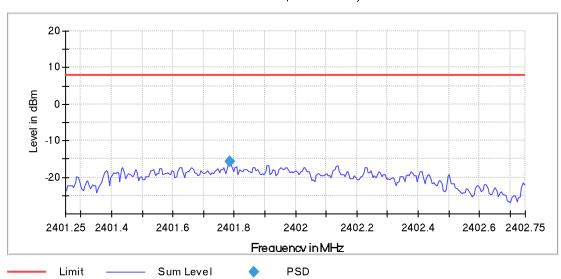
Mode 1, Channel 39





Mode 2, Channel 37

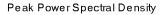
Peak Power Spectral Density

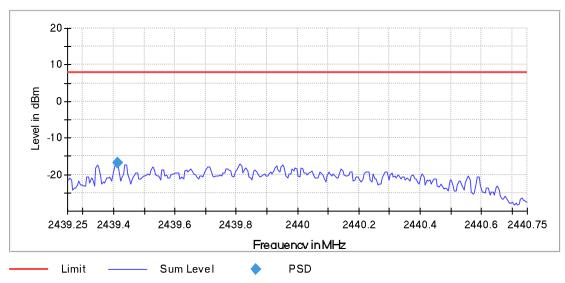


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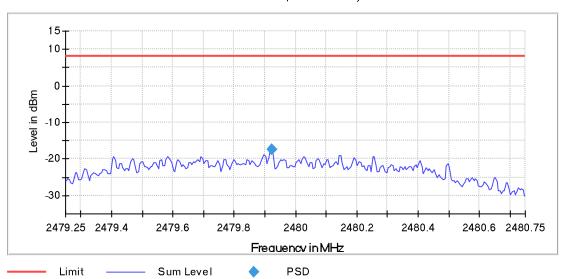
Mode 2, Channel 17





Mode 2, Channel 39

Peak Power Spectral Density



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5 **IDENTIFICATION OF THE EQUIPMENT UNDER TEST**

The photographs show the tested device.

Refer to document 4395567_Internal photos and 4395567_External photos

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ANNEX 1 – MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Occupied Channel Bandwidth	±0,7%
RF Output power, conducted	±0,6dB
Power Spectral Density, Conducted	±0,6dB
Unwanted Emissions, Conducted	±0.7dB
Spurious (30-1000MHz)	±4,4dB
Spurious (1-12,75GHz)	±4,4dB

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ANNEX 2 - USED EQUIPMENT

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	101206	G/L858	2023/07/07
2	Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	506	G/L864	2023/10/23
3	Chamber	ETS	/	/	G/L856	2024/06/10
4	Antenna (1GHz-18GHz)	R&S	HF907	102306	G/L1236	2023/02/23
5	Horn antenna preamplifier	Schwarzbeek	SCU-18	102234	G/L1236-1	2023/02/21
6	Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2023/01/17
7	HF antenna (18 – 26.5 GHz)	ETS	3160-09	00164643	G/L1237	2023/01/16
8	High frequency antenna preamplifier (18 – 26.5 GHz)	Schwarzbeck	SCU-26	1879064	G/L1237-1	2023/01/10
9	Broadband horn antenna (15 – 40 GHz)	Schwarzbeck	BBHA9170	00908	GZ1901	2023/04/30
10	High frequency antenna preamplifier (18 – 26.5 GHz)	Schwarzbeck	SCU-26	1879064	G/L1237-1	2023/01/10
11	Annular magnetic field antenna	TESEQ	HLA6121	540045	GZ1905	2023/05/06

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	2023/01/17
2	Chamber	ETS	/	1	G/L856	2024/06/10
3	OSP	R&S	OSP 150	101907	GZ1894	2023/04/27

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ANNEX 3 - TEST PHOTOS

Refer to document 4395567_Test setup.

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