





Test report No:

NIE: 51929RRF.038

Partial Test report

USA FCC Part 15.247,15.407, 15.209 CANADA RSS-247, RSS-Gen

Radio Frequency Devices.

Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 -5850 MHz.

Unlicensed National Information Infrastructure (U-NII) Devices:

General technical requirements.

Radiated emission limits; general requirements.

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

General Requirements and Information for the Certification of Radio Apparatus.

(*) Identification of item tested	Headunit with radio and Bluetooth
(*) Trademark	Panasonic
(*) Model and /or type reference	MIB3E_MQB_BTWIFI
Other identification of the product	HW version: X40 SW version: X820 Part number: 575.035.869 FCC ID: WUQ-MIB3HBTWIFI IC: 216R-MIB3HBTWIFI
(*) Features	Bluetooth, WLAN, FM, AM, DAB, USB
Applicant	PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH Robert Bosch Str. 27-29, 63225, Langen, Germany
Test method requested, standard	USA FCC Part 15.407 (10-1-19) Edition: Unlicensed National Information Infrastructure (U-NII) Devices. General technical requirements. Band U-NII-3 (5725 MHz – 5850 MHz). USA FCC Part 15.247 (10-1-19) Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-19) Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 (March 2019). -Transmitter out of band radiated emissions with simultaneous transmissions.
	Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019.

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Summary	Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017. Guidance for Emission Testing of Transmitters with Multiple Outputs in the Same Band 662911 D01 Multiple Transmitter Output v02r01 dated 10/31/2013 ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. IN COMPLIANCE
Approved by (name / position & signature)	Rafael López Martín EMC Consumer & RF Lab. Manager
Date of issue	2020-05-07
Report template No	FDT08_22 (*) "Data provided by the client"

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Competences and guarantees

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DEKRA Testing and Certification is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification has a calibration and maintenance program for its measurement equipment.

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DEKRA Testing and Certification is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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- 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 Testing and Certification.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification internal document PODT000.

Data provided by the client

The following data has been provided by the client:

- Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
- 2. The sample of the model MIB3E MQB BTWIFI is an Automotive Head Unit to be installed in cars with the following features: Bluetooth, WLAN, FM, AM, DAB, USB.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of result.

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Usage of samples

Samples undergoing test have been selected by: The client.

- Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
51929B/639	Automotive Head Unit Var 5_Ateca BTWIFI	MIB3E_MQB_BT WIFI	PM6- 00124.10.19413F04 42	2020/03/17
51929B/228	Harness			2019/01/24

Sample S/01 has undergone the following test(s): All the tests indicated in Appendix A.

Test sample description

Ports:	Port name and description		Cable			
			Specified max length [m]	Attached during test	Shielde	cd Coupled to patient ⁽³⁾
	-					
	-					
Supplementary information to the ports:	-					
Rated power supply:	Volta	ge and Frequency	,			
		DC: 12 Vdc				
Rated Power:	-					
Clock frequencies:	-					
Other parameters:	-					
Software version:	X820					
Hardware version	X40					
Dimensions in cm (W x H x D):	-					
Mounting position		Other: Vehicle.				
Modules/parts	Modu	le/parts of test iter	m		Туре	Manufacturer
	-					

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Accessories (not part of the test item)	Description	Туре	Manufacturer
	-		
Documents as provided by the applicant:	Description	File name	Issue date
	-		

Identification of the client

PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH Robert Bosch Str. 27-29, 63225, Langen, Germany

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2020-04-22
Date (finish)	2020-04-23

Document history

Report number	Date	Description
51929RRF.038	2020-05-07	First release

⁽³⁾ Only for Medical Equipment



Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Nicolás Salguero and Cristina Calle.

Used instrumentation:

Radiated Measurements:

		Last Calibration	Due Calibration
1.	Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP	N.A.	N.A.
2.	Hybrid Biconical/Log Antenna SUNOL SCIENCES CORPORATION JB6	2017/09	2020/09
3.	Pre-Amplifier G>40dB 10MHz-6GHz, BONN ELEKTRONIK, BLNA 0160-01N	2020/02	2021/02
4.	EMI Test Receiver 7 GHz ROHDE AND SCHWARZ ESR7	2019/10	2021/10
5.	DC Power Supply, 30V/5A KEYSIGHT TECHNOLOGIES U8002A	N.A.	N.A.
6.	Digital Multimeter FLUKE 179	2019/06	2020/06
7.	Horn antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D	2019/11	2022/11
8.	Broadband Horn antenna 18 - 40 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9170	2018/07	2021/07
9.	RF Pre-amplifier, 40 dB ,1-18 GHz BONN ELEKTRONIK BLMA 0118-1M	2019/04	2020/04
10.	Low Noise Amplifier G>30dB, 18 - 40 GHz BONN ELEKTRONIK BLMA 1840-1M	2019/02	2021/02
11.	Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40	2019/09	2021/09

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Testing verdicts

Not applicable:	N/A
Pass:	Р
Fail:	F
Not measured:	N/M

Summary

FCC PART 15 PARAGRAPH / RSS-247		
Requirement – Test case	Verdict	Remark
FCC 15.209 (a), 15.247 (d), 15.407 (b) / RSS-Gen 8.9, RSS-247 5.5, 6.2.1.2, 6.2.2.2, 6.2.3.2 & 6.2.4.2: - Emission limitations radiated (Transmitter)	Р	(1)
Supplementary information and remarks:		
(1) Only co-location radiated spurious emission test was requested.		

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Appendix A: Test results.

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limitations radiated (Transmitter)	15

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TEST CONDITIONS

POWER SUPPLY (V):

Vnominal: 12 Vdc

Type of Power Supply: External DC (Vehicle battery).

ANTENNA:

Type of Antenna: Integral.

Maximum Declared Antenna Gain for Bluetooth EDR: +1.3 dBi
Maximum Declared Antenna Gain for WLAN 2.4 GHz: +0.4 dBi
Maximum Declared Antenna Gain for WLAN 5 GHz U-NII-1: +0.7 dBi
Maximum Declared Antenna Gain for WLAN 5 GHz U-NII-3: +0.7 dBi

RADIOS AND CHANNELS TESTED:

	Bluetooth EDR / FHSS				
Mode:	Basic Rate (PI4DQPSK - 2DH5)	Basic Rate (PI4DQPSK - 2DH5)			
Channel Spacing:	1 MHz	1 MHz			
Frequency Range:	2402 MHz to 2480 MHz	2402 MHz to 2480 MHz			
Transmit Channel:	Channel	Channel Channel Frequency (MHz)			
	37	2402			
	39	2480			

	WLAN 2.4 GHz(WLAN 2.4 GHz (IEEE 802.11 bgn20) / DTS			
Mode:	802.11 b: 1, 2, 5.5 & 11 Mbps (S	802.11 b: 1, 2, 5.5 & 11 Mbps (SISO)			
Channel Spacing:	20 MHz	20 MHz			
Frequency Range:	2412 MHz to 2472 MHz	2412 MHz to 2472 MHz			
Transmit Channel:	Channel	Channel Channel Frequency (MHz)			
	1	1 2412			
	11	2462			

	WLAN 5 GHz (IEEE	WLAN 5 GHz (IEEE 802.11 anac) / U-NII			
Mode:	802.11 a20 SISO: 6, 9, 12, 18, 24,	802.11 a20 SISO: 6, 9, 12, 18, 24, 36, 48 & 54 Mbps.			
Frequency Range:	5150 MHz to 5250 MHz (U-NII-1)				
Channel Spacing:	20 MHz				
Transmit Channel:	Channel	Channel Frequency (MHz)			
	Low: 36	5180			
	High: 48	5240			
Frequency Range:	5725 MHz to 5850 MHz (U-NII-3)	5725 MHz to 5850 MHz (U-NII-3)			
Channel Spacing:	20 MHz				
Transmit Channel:	Channel	Channel Frequency (MHz)			
	Low: 149	5745			
	High: 165	5825			

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The test set-up was made in accordance to the general provisions of FCC DTS Measurement 558074 D01 DTS Meas Guidance v05r2 dated April 2, 2019 and FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode:

 Continuous transmission with a modulated carrier at maximum power in all required channels selecting the supported data rates/modulations types.

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

Selected Transmission Mode for each Radio:

The following configurations were selected based on preliminary testing that identified those corresponding to the worst cases:

- * <u>Bluetooth Basic Rate:</u> Transmitter radiated spurious emissions tests were performed with the EUT transmitting in Basic Rate mode because its power is higher than EDR mode.
- * <u>WLAN 2.4 GHz:</u> Transmitter radiated spurious emissions tests were performed with the EUT transmitting in 802.11 b / 1Mbps mode configuration as this mode was found to transmit higher EIRP than all the other 2.4 GHz WLAN SISO modes.
- * <u>WLAN 5 GHz U-NII-1 band:</u> Transmitter radiated spurious emissions tests were performed with the EUT transmitting in 802.11 a20 / 6Mbps mode configuration as these modes were found to transmit higher EIRP than all the other 5 GHz WLAN U-NII-1 band SISO modes.
- * <u>WLAN 5 GHz U-NII-3 band:</u> Transmitter radiated spurious emissions tests were performed with the EUT transmitting in 802.11 a20 / 6Mbps mode configuration as these modes were found to transmit higher EIRP than all the other 5 GHz WLAN U-NII-3 band SISO modes.

TESTED SIMULTANEOUS TRANSMISSION MODES:

* Co-location Bluetooth, WLAN 2.4 GHz, with the EUT configured to simultaneously transmit two signals at maximum output power:

Bluetooth Basic Rate in 2DH5 mode, WLAN 2.4GHz in 802.11 b / 1 Mbps.

* Co-location Bluetooth, WLAN 5 GHz U-NII-1 band, with the EUT configured to simultaneously transmit two signals at maximum output power:

Bluetooth Basic Rate in 2DH5 mode, WLAN 5GHz in 802.11 a20 / 6 Mbps.

* Co-location Bluetooth, WLAN 5 GHz U-NII-3 band, with the EUT configured to simultaneously transmit two signals at maximum output power:

Bluetooth Basic Rate in 2DH5 mode, WLAN 5GHz in 802.11 a20 / 6 Mbps.

DEKRA

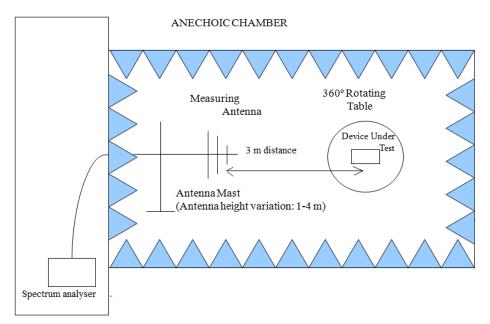
RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m. The EUT was placed at a height of 80 cm above the reference ground plane in the center of the chamber turntable to perform the measurements below 1GHz and The EUT was placed at a height of 1.5 meters above the test chamber floor in the center of the chamber turntable to perform the measurements above 1GHz. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor, preamplifier gain (if used) and cable losses.

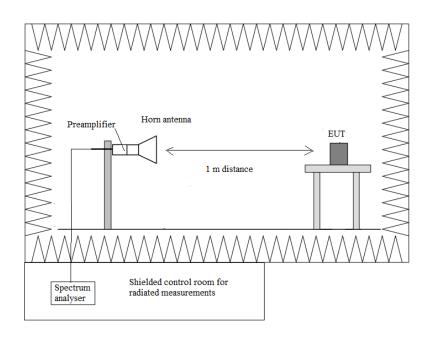
Radiated measurements setup 30 MHz < f < 1 GHz:



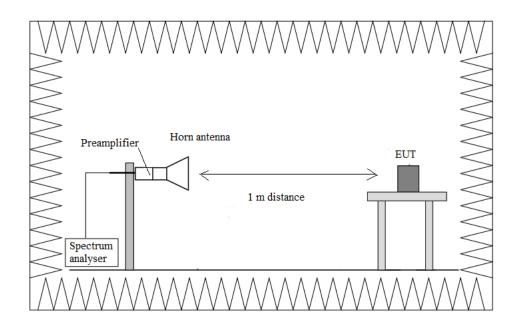
Shielded Control Room For Radiated Measurements



Radiated measurements setup f > 1 GHz up to 17 GHz:



Radiated measurements setup f > 17 GHz up to 40 GHz:



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FCC 15.209 (a), 15.247 (d), 15.407 (b) / RSS-Gen 8.9, RSS-247 5.5, 6.2.1.2, 6.2.2.2, 6.2.3.2 & 6.2.4.2 Emission limitations radiated (Transmitter)

SPECIFICATION:

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), appearing outside of the band 13.110 MHz - 14.010 MHz band must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) / RSS-Gen):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	- (αΒ μ ν/ιιι)	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	29.54	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247. Attenuation below the general field strength limits specified in RSS-Gen is not required.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-40 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Test performed on the following worst cases in all relevant tests channels:



Mode Bluetooth EDR, 802.11 b SISO.

Bluetooth EDR: High Channel (2480 MHz). Pi/4-DQPSK. 802.11 b SISO: Low Channel (2412 MHz), 1Mbps.

LIMIT: The spurious frequencies were measured at 3 meter. The limit of the test is determined by:

Frequency Range	Detector	Limit at 3m (dBµV/m)
30 MHz to 88 MHz	Quasi-PK	40 dBμV/m
88 MHz to 216 MHz	Quasi -PK	43.5 dBμV/m
216 MHz to 960 MHz	Quasi -PK	46 dBμV/m
960 MHz to 1 GHz	Quasi -PK	54 dBμV/m
1 to 26 GHz	PK	74 dBμV/m(*) (**)
1 to 26 GHz	AVG	54 dBμV/m (**)

^(*) Radiated emissions which fall in the non-restricted bands.

Frequency range 30 MHz - 1 GHz

The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious frequencies detected at less than 20 dB below the limit:

Spurious frequency (MHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
32.021	24.1	40	V	Quasi-peak	<± 4.99
400.556	28.2	46	Н	Quasi-peak	<± 4.99
925.035	28.9	46	Н	Quasi-peak	<± 4.99

Frequency range 1 - 26 GHz

Spurious frequencies detected closest to the limit:

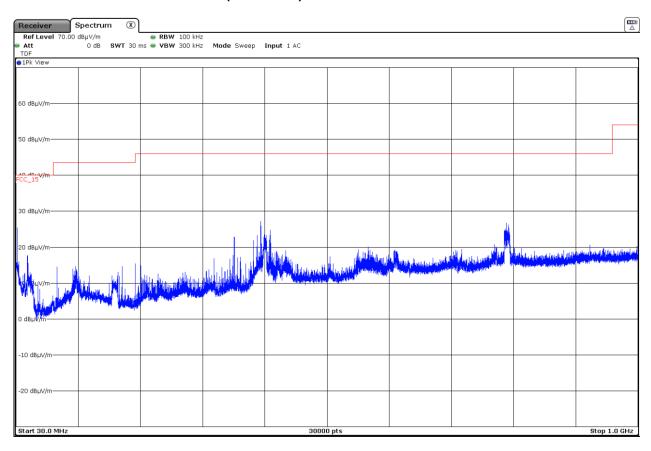
Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
2.376753	55.81	74	V	Peak	<± 3.98
2.370733	38.64	54	V	Average	<± 3.98
3.97463	52.17	74	V	Peak	<± 4.98
4.25417	40.38	74	V	Peak	<± 4.98
4.40945	41.72	74	V	Peak	<± 4.98
4.73692	37.85	74	V	Peak	<± 4.98
5.59537	47.07	74	V	Peak	<± 4.98
6.39757	38.64	74	V	Peak	<± 4.98
7.0551	40.55	74	V	Peak	<± 4.98
7.22217	42.45	74	V	Peak	<± 4.98
3.51637	46.61	74	Н	Peak	<± 4.98
7.14703	40.01	74	Н	Peak	<± 4.98
8.75843	43.37	74	Н	Peak	<± 4.98

Verdict: PASS

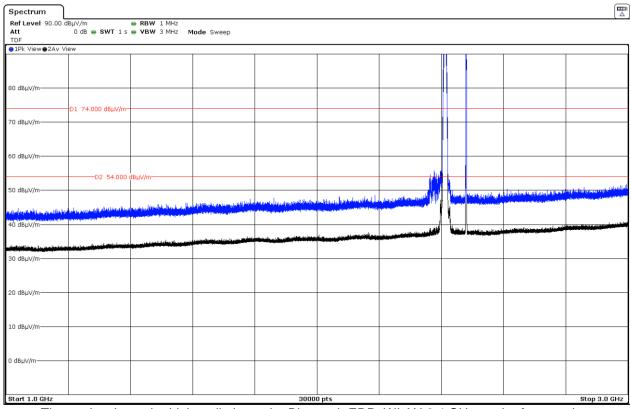
^(**) Radiated emissions which fall in the restricted bands, as defined in §15.205(a).



FREQUENCY RANGE 30 MHz - 1 GHz (worst case):



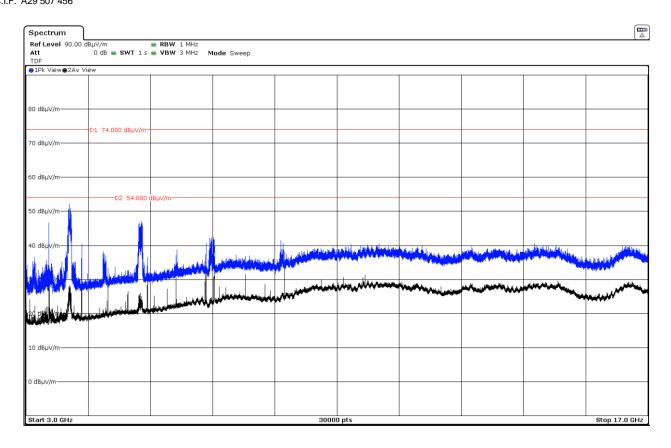
FREQUENCY RANGE 1 - 26 GHz (worst case):

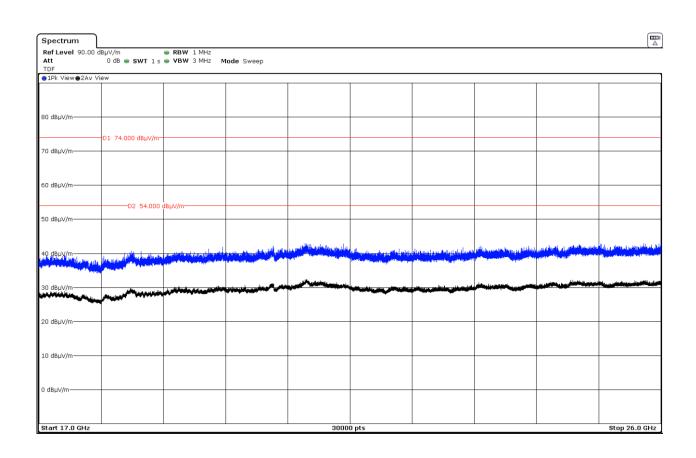


The peaks above the highest limit are the Bluetooth EDR, WLAN 2.4 GHz carrier frequencies.

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Mode Bluetooth EDR, 802.11 a20 U-NII-1 SISO.

Bluetooth EDR: Low Channel (2402 MHz). Pi/4-DQPSK. 802.11 a20 SISO: High Channel (5240 MHz). 6Mbps.

LIMIT: The spurious frequencies were measured at 3 meter. The limit of the test is determined by:

Frequency Range	Detector	Limit at 3m (dBµV/m)
30 MHz to 88 MHz	Quasi-PK	40 dBμV/m
88 MHz to 216 MHz	Quasi -PK	43.5 dBμV/m
216 MHz to 960 MHz	Quasi -PK	46 dBμV/m
960 MHz to 1 GHz	Quasi -PK	54 dBμV/m
1 to 26 GHz	PK	74 dBμV/m
26 to 40 GHz	PK	68.23 dBμV/m (*) OR 74 dBμV/m (**)
1 to 40 GHz	AVG	54 dBμV/m (**)

^(*) Radiated emissions which fall in the non-restricted bands.

Frequency range 30 MHz - 1 GHz

The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious frequencies detected at less than 20 dB below the limit:

Spurious frequency (MHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
31.989	24.8	40	V	Quasi-peak	<± 4.99
141.308	29.2	43.5	V	Quasi-peak	<± 4.99
400.556	30.2	46	Н	Quasi-peak	<± 4.99
406.441	27	46	Н	Quasi-peak	<± 4.99

Frequency range 1 - 40 GHz

Spurious frequencies detected closest to the limit:

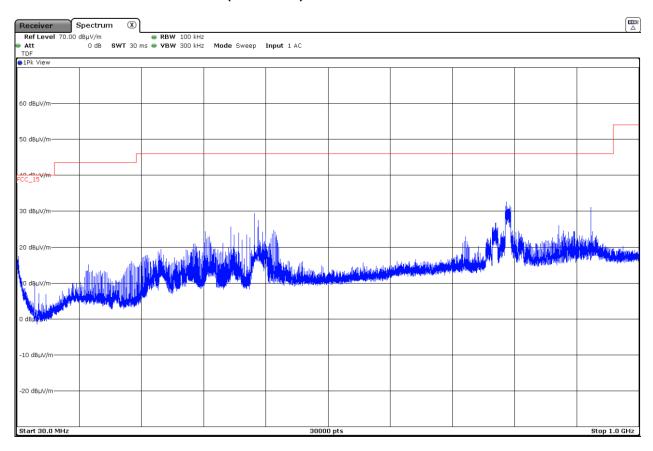
Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
2.3761	54.32	74	V	Peak	<± 3.98
2.3/01	38.9	54	V	Peak	<± 3.98
4.72169	50.05	74	V	Peak	<± 3.98
3.51642	48.58	74	Н	Peak	<± 3.98
4.40965	48.81	74	Н	Peak	<± 3.98
5.09411	46.42	74	Н	Peak	<± 3.98
7.03283	37.89	74	V	Peak	<± 4.98
7.05517	42.48	74	V	Peak	<± 4.98
10.58283	39.61	74	Н	Peak	<± 4.98

Verdict: PASS

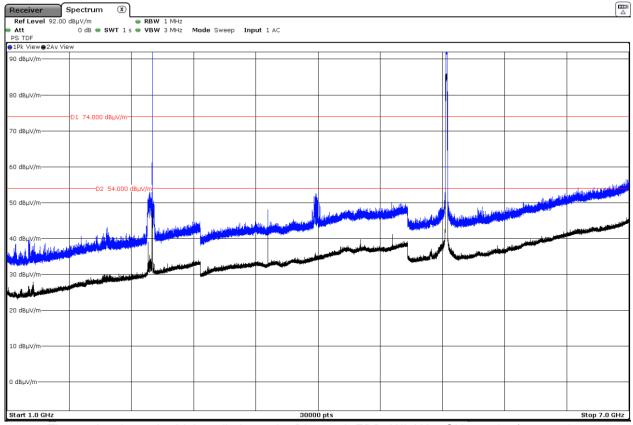
^(**) Radiated emissions which fall in the restricted bands, as defined in §15.205(a).



FREQUENCY RANGE 30 MHz - 1 GHz (worst case):



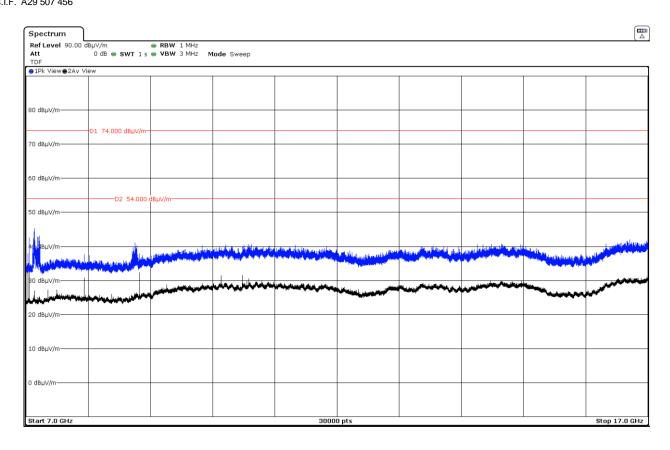
FREQUENCY RANGE 1 - 40 GHz (worst case):

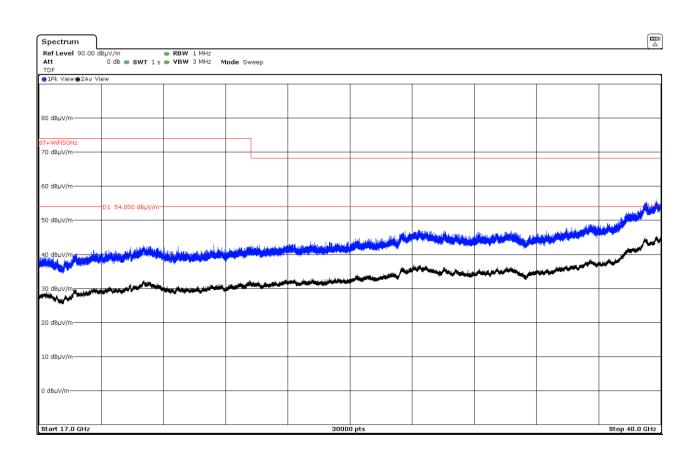


The peaks above the highest limit are the Bluetooth EDR, WLAN 5 GHz carrier frequencies.

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Mode Bluetooth EDR, 802.11 a20 U-NII-3 SISO.

Bluetooth EDR: High Channel (2480 MHz). Pi/4-DQPSK. 802.11 a20 SISO: Low Channel (5745 MHz). 6 Mbps.

LIMIT: The spurious frequencies were measured at 3 meter. The limit of the test is determined by:

Frequency Range	Detector	Limit at 3m (dBµV/m)	
30 MHz to 88 MHz	Quasi-PK	40 dBμV/m	
88 MHz to 216 MHz	Quasi -PK	43.5 dBμV/m	
216 MHz to 960 MHz	Quasi -PK	46 dBμV/m	
960 MHz to 1 GHz	Quasi -PK	54 dBμV/m	
1 to 26 GHz	PK	74 dBμV/m	
26 to 40 GHz	PK	68.23 dBμV/m (*) OR 74 dBμV/m (**)	
1 to 40 GHz	AVG	54 dBμV/m (**)	

^(*) Radiated emissions which fall in the non-restricted bands.

Frequency range 30 MHz - 1 GHz

The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious frequencies detected at less than 20 dB below the limit:

Spurious frequency (MHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
32.021	23.9	40	V	Quasi-peak	<± 4.99
53.264	23.5	40	V	Quasi-peak	<± 4.99
141.308	26.4	43.5	V	Quasi-peak	<± 4.99
400.556	28.2	46	Н	Quasi-peak	<± 4.99

Frequency range 1 - 40 GHz

Spurious frequencies detected at less than 20 dB below the limit:

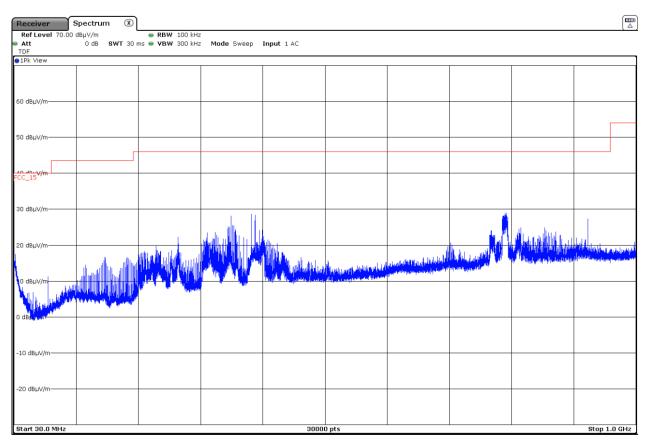
Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
2.37375	54.06	74	V	Peak	<± 3.98
	35.87	54		Peak	<± 3.98
3.51622	48.74	74	V	Peak	<± 3.98
3.96982	52.91	74	V	Peak	<± 3.98
4.16686	46.9	74	V	Peak	<± 3.98
4.40925	49.74	74	V	Peak	<± 3.98
7.03283	37.96	74	V	Peak	<± 4.98
7.05517	40.42	74	V	Peak	<± 4.98
8.81883	39.51	74	V	Peak	<± 4.98
11.48983	39.33	74	V	Peak	<± 4.98

Verdict: PASS

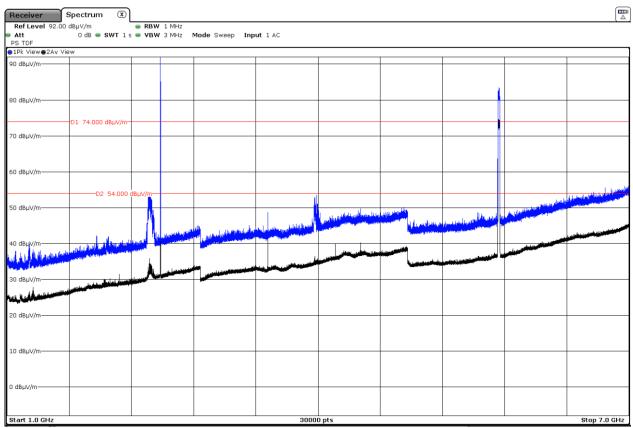
^(**) Radiated emissions which fall in the restricted bands, as defined in §15.205(a).



FREQUENCY RANGE 30 MHz - 1 GHz (worst case):



FREQUENCY RANGE 1 - 40 GHz (worst case):



The peaks above the highest limit are the Bluetooth EDR, WLAN 5 GHz carrier frequencies.

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