



Test Lab
Cert 2764.01

FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
2805ERM.003A1

Test report

USA FCC Part 15.407 (U-NII), 15.209

CANADA RSS-210, RSS-Gen

Unlicensed National Information Infrastructure Devices. General technical requirements.

Licence-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
General Requirements and Information for the Certification of Radio Apparatus.

Identification of item tested	WE866C3-P (Module)
Trademark	Telit
Model and /or type reference	WE866C3-P
Other identification of the product	HW Version: CS1929a-A SW Version: Host SW V_25.20.000-B010
Features	BT BR/EDR/LE 2.4 +Wi-Fi a/b/g/n/ac (Wave 1 => Max BW=80 MHz)
Manufacturer	TELIT communications s.p.a. Viale Stazione di Prosecco 5/b, Trieste, Italy, 34010
Test method requested, standard	USA FCC Part 15.407 10-1-18 Edition: Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 10-1-18 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 (April 2018). 789033 D02 General UNII Test Procedures New Rules v02r01 Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	06-29-2020
Report template No	FDT08_21

Index

Competences and guarantees	3
General conditions	3
Uncertainty	3
Data provided by the client.....	4
Usage of samples	4
Test sample description	5
Identification of the client.....	6
Testing period and place.....	6
Document history	6
Modifications to the reference test report	7
Environmental conditions	7
Remarks and comments	7
Testing verdicts.....	8
Summary	8
List of equipment used during the test.....	9
Appendix A: DUT Description	10
Appendix B: Test results 5.725 GHz – 5.85 GHz Band	12

Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

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

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

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

Uncertainty

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

Frequency (MHz)	U(k=2)	Units
0,009 - 30	2.69	dB
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

Wi-Fi / BLE module

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
2323/20	Telit Module	WE866C3-P	1868A-A38927180012	10/10/2018
2323/19	Telit Cradle with Power Supply	CS1742E	CS1742E- A-18000361	10/10/2018

1. Sample S/01 has undergone following test(s):
All conducted tests indicated in appendix B.

Sample S/02 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
2323/08	Telit Module	WE866C3-P	1868A-A38927180014	10/10/2018
2323/07	Telit Cradle with Power Supply	CS1742E	CS1742E- A-18000518	10/10/2018

1. Sample S/02 has undergone following test(s):
All radiated tests indicated in appendix B.

Test sample description

Ports..... :	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded		
	<i>WI-FI/BT RF Port</i>		0.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
				<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>			
Supplementary information to the ports..... :	<i>Not provided data</i>						
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DC:					
<input checked="" type="checkbox"/>	DC: 3.8V (Internal DCDC converter supplying the WE866C3-P module with regulated voltage = 3.3 V)						
Rated Power	<i>18 dBm max</i>						
Clock frequencies	<i>48 MHz</i>						
Other parameters..... :	<i>Not provided data</i>						
Software version	<i>LE910_25.20.000-B010_CUST_012-c4_perf_TF</i>						
Hardware version..... :	<i>CS1929a-A</i>						
Dimensions in cm (L x W x D)	<i>15x13mm</i>						
Mounting position..... :	<input type="checkbox"/>	<i>Tabletop equipment</i>					
	<input checked="" type="checkbox"/>	<i>Wall/Ceiling mounted equipment</i>					
	<input type="checkbox"/>	<i>Floor standing equipment</i>					
	<input type="checkbox"/>	<i>Hand-held equipment</i>					
	<input type="checkbox"/>	<i>Other:</i>					
Modules/parts	Module/parts of test item		Type		Manufacturer		
	<i>Not provided data</i>						
Accessories (not part of the test item)	Description		Type		Manufacturer		
	<i>Not provided data</i>						

Documents as provided by the applicant.....:	Description	File name	Issue date
	Declaration Equipment Data	FDT30_14 Declaration Equipment Data	



Identification of the client

TELIT COMMUNICATIONS S.P.A
 VIALE STAZIONE DI PROSECCO 5/B, TRIESTE, ITALY, 34010

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	04-08-2020
Date (finish)	04-16-2020

Document history

Report number	Date	Description
2805ERM.003	04-23-2020	First release
2805ERM.003A1	06-29-2020	Second release

Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 2805ERM.003 related with the same samples, in the next clauses and sub-clauses:

Clauses/ Sub-Clauses	Modification	Justification
Page 15-377/ B1. 26dB Emission Bandwidth & Occupied Bandwidth	40MHz Occupied Bandwidth measurement settings have been modified	Documentation Error
Page 38-49/B2. 6dB Bandwidth	40MHz Bandwidth measurement settings have been modified	Documentation Error

This modification test report cancels and replaces the test report 2805ERM.003.

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. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi-anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Divya Adusumilli, Koji Nishimoto and Poojita Bhattu.

Testing verdicts

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

Summary

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.725 GHz -5.85 GHz Band					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
B.1	§ 15.403 (i) KDB 789033 D02	RSS 247 6.2.4	26dB Emission Bandwidth & Occupied Bandwidth	P	N/A
B.2	§ 15.407 (e)	RSS 247 6.2.4.1	6dB Bandwidth	P	N/A
B.3	§ 15.407 (a)(3)(4)	RSS 247 6.2.4.1	Power Limits. Maximum Output Power	P	N/A
B.4	§ 15.407 (a)(3)(5)	RSS-247 6.2.4.1	Maximum Power Spectral Density	P	N/A
B.5	§ 15.407 (b)(4)	RSS-247 6.2.4.2	Band-edge conducted emissions compliance (Transmitter)	P	N/A
B.6	§ 15.407 (b)(6) § 15.207	RSS-Gen 8.8	Emission limitations Conducted (Transmitter)	P	N/A
B.7	§ 15.407 (b)(4)(6)(7) § 15.209 § 15.205	RSS-247 6.2.4.2 RSS-Gen 8.9 & 8.10	Undesirable radiated emissions (Transmitter)	P	N/A
--	§ 15.407 (g)	RSS-Gen 6.11 & 8.11	Frequency Stability	N/M	Refer 1
Supplementary information and remarks:					
The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017					
1) Acc. To FCC, Manufacturers of UNII devices are responsible for frequency stability compliance.					

FCC PART 15 PARAGRAPH / RSS-247 (Wi-Fi 5GHz) Common Requirements for all bands					
Report Section	15.407 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
--	§ 15.407 (c)	--	Transmission in case of absence of information to transmit, or operational failure.	N/M	Refer 1
Supplementary information and remarks:					
1) The compliance is checked through a description of how this requirement is met that is provided by the applicant.					

List of equipment used during the test

Conducted Measurements

Test system Rohde & Schwarz TS 8997:

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1039	Signal analyzer	Rohde & Schwarz	FSV40	2018/10	2020/10
1009	RF generator	Rohde & Schwarz	SMB100A	2019/08	2021/08
1042	RF generator	Rohde & Schwarz	SMBV100A	2018/01	2021/01
101	Climatic chamber	Espec	ESL-2CA	2020/04	2021/04

Radiated Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1179	Semi anechoic Absorber Lined Chamber	Frankonia	SAC 3 plus "L"	N/A	N/A
1064	Biconical Log antenna	ETS LINDGREN	3142E	2018/01	2021/01
1057	Double-ridge Waveguide Horn antenna 1-18 GHz	ETS LINDGREN	3115	2017/03	2020/04
1056	Double-ridge Waveguide Horn antenna 18-40 GHz	ETS LINDGREN	3116C	2020/01	2023/01
1014	Spectrum analyzer	Rohde & Schwarz	FSV40	2019/04	2021/04
0982	RF pre-amplifier 18-40 GHz	Bonn Elektronik	BLMA1840-1M	2018/10	2020/10

Appendix A: DUT Description

DUT Description

The following information is provided by the client

Information	Description
Equipment type	Wi-Fi 5GHz/2.4 GHz + BT BR/EDR/LE
DFS Operating Mode	Slave without Radar Detection
TPC Function	Not Supported ¹
Antenna Specification	Equipment with only one antenna
Operating Frequency Range	5725 – 5825 MHz
Nominal Channel Bandwidth	20 / 40 / 80 MHz
Antenna type	Dedicated antenna (single)
Antenna gain	+4.5 dBi
Supply Voltage	3.3 Vdc
Modulation:	OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM)
Communication Mode:	IP Based (Load Based)
Transmit Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2 Mbps IEEE 802.11n HT40: 15, 30, 45, 60, 90, 120, 135, 150 Mbps IEEE 802.11ac VHT20: 86.7 Mbps IEEE 802.11ac VHT40: 180, 200 Mbps IEEE 802.11ac VHT80: 390, 433.3 Mbps
Geo-location capability	No

1. TPC not required if Max EIRP < 500mW (27 dBm)

Appendix B:

Test results 5.725 GHz – 5.85 GHz Band

Appendix B Content

DESCRIPTION OF TEST CONDITIONS	14
SECTION B.1: 26DB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH	15
SECTION B.2: 6DB EMISSION BANDWIDTH	38
SECTION B.3: POWER LIMITS. MAXIMUM OUTPUT POWER	50
SECTION B.4: POWER SPECTRAL DENSITY	59
SECTION B.5: BAND-EDGE EMISSIONS COMPLIANCE (TRANSMITTER)	73
SECTION B.6: EMISSION LIMITATIONS CONDUCTED (TRANSMITTER)	86
SECTION B.7: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)	93

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (a mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.3 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest range: 5745 MHz Middle channel: 5785 MHz Highest range: 5825 MHz
TC#02 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.3 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Test Frequencies for Conducted/Radiated tests: (40 MHz)</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz
TC#03 ⁽¹⁾ (ac mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.3 \text{ Vdc}$ <u>Test Frequencies for Conducted/Radiated tests: (20 MHz)</u> Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz <u>Test Frequencies for Conducted/Radiated tests: (40 MHz)</u> Lowest channel: 5755 MHz Highest channel: 5795 MHz <u>Test Frequencies for Conducted/Radiated tests: (80 MHz)</u> Middle channel: 5775 MHz

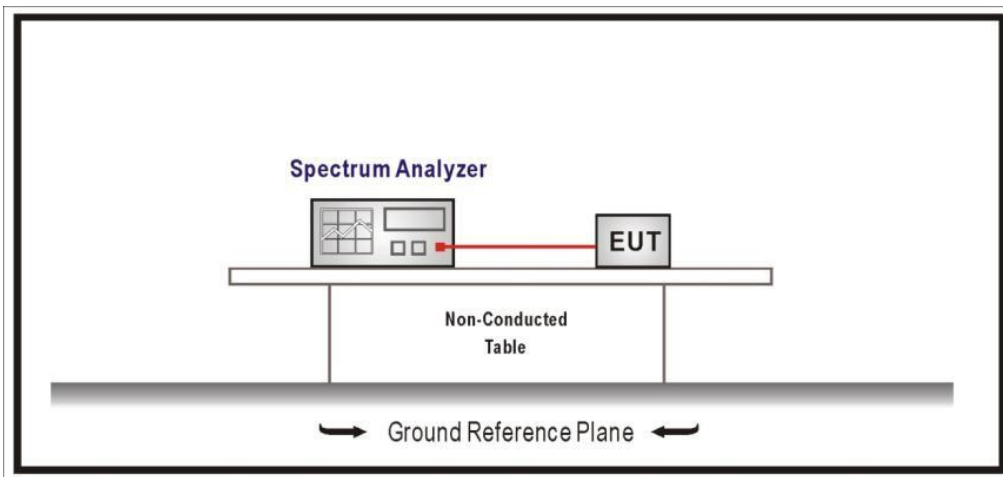
Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20/40 and 802.11ac20/40/80 a preliminary scan was performed to determine the worst case.
 The data rates of 6Mb/s for 802.11a, HT0 (SISO) for 802.11n20/ac20 and n40/ac40, and VHT0 (SISO) for 802.11 ac80 were selected based on preliminary testing that identified those rates corresponding to the worst cases.

SECTION B.1: 26DB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart E §15.403 and RSS-247
	Test standard:	Part 15 Subpart E §15.403 and RSS-247 6.2.4

No requirements requested

TEST SETUP:



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

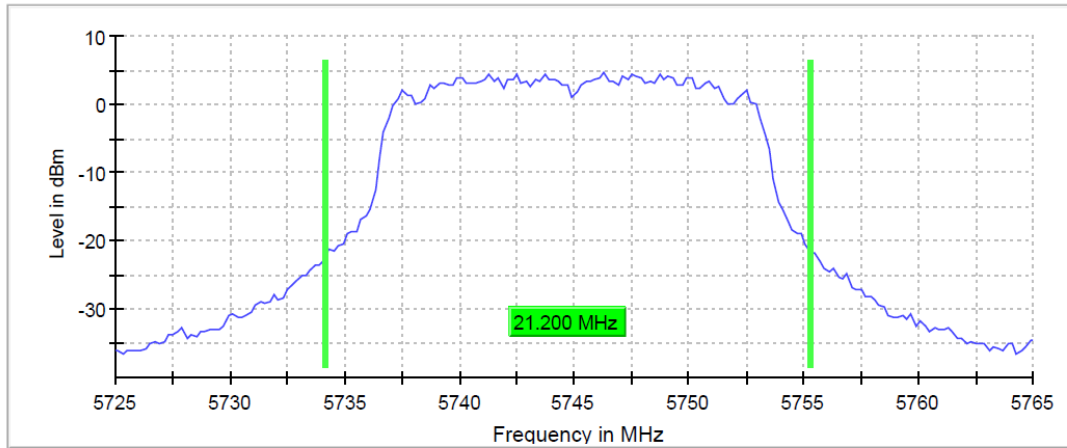
Bandwidth: 20 MHz

	Lowest frequency	Middle frequency	Highest frequency
	5745 MHz	5785 MHz	5825 MHz
26dB Bandwidth (MHz)	21.20	21.00	22.40
Occupied bandwidth (MHz)	16.60	16.40	16.60
Measurement uncertainty (kHz)	<± 8.33		

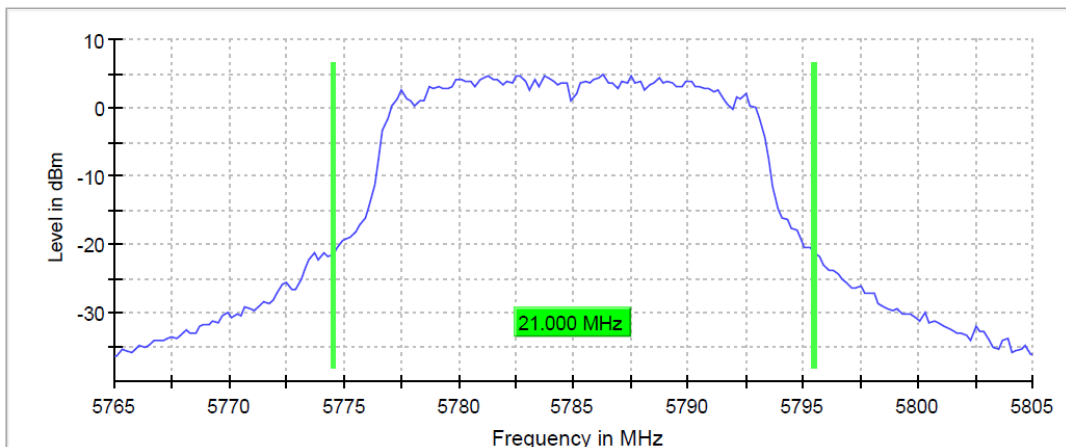
TEST RESULTS (Cont.):

26 dB BANDWIDTH

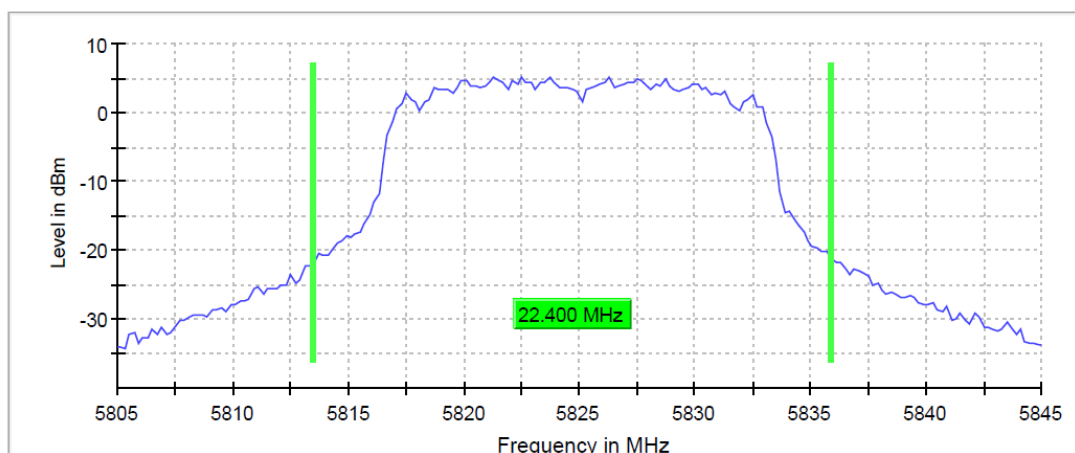
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.):

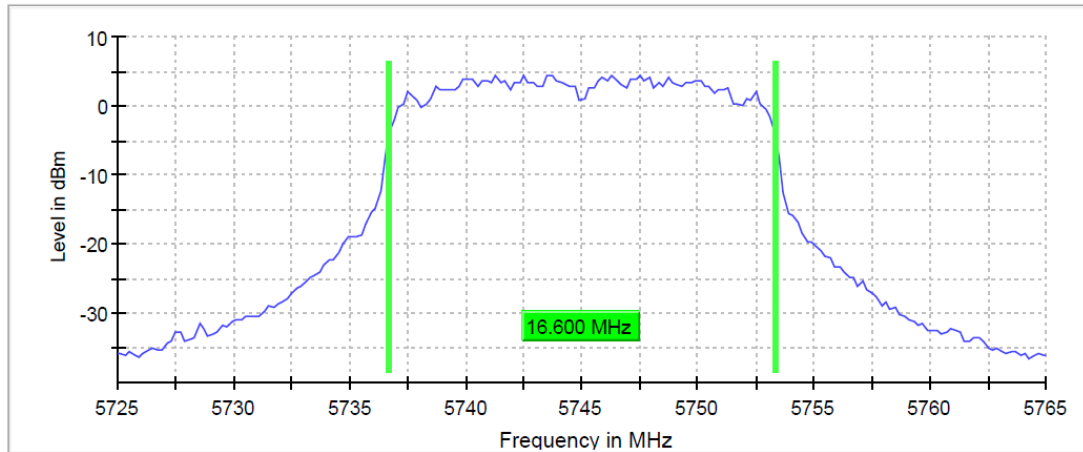
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 μ s	28.447 μ s	28.477 μ s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	62 / max. 150	35 / max. 150	83 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB	0.00 dB

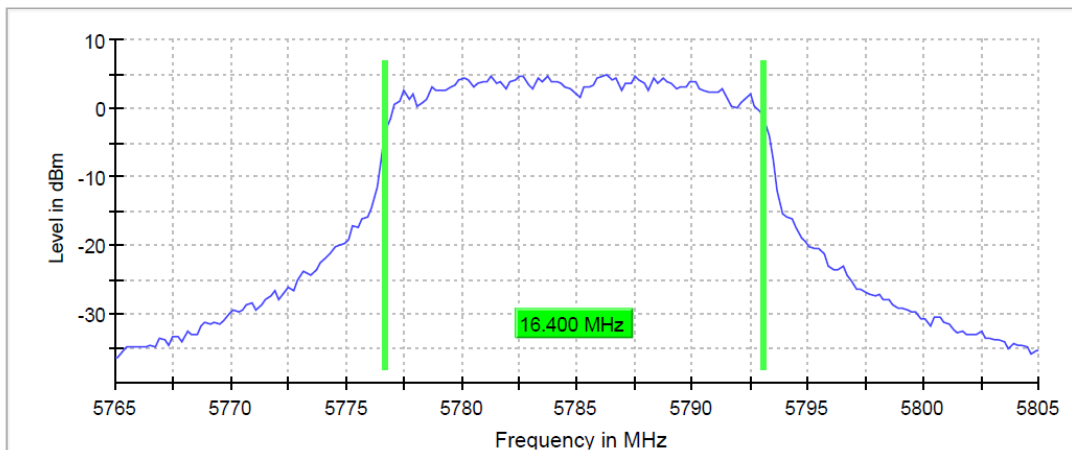
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

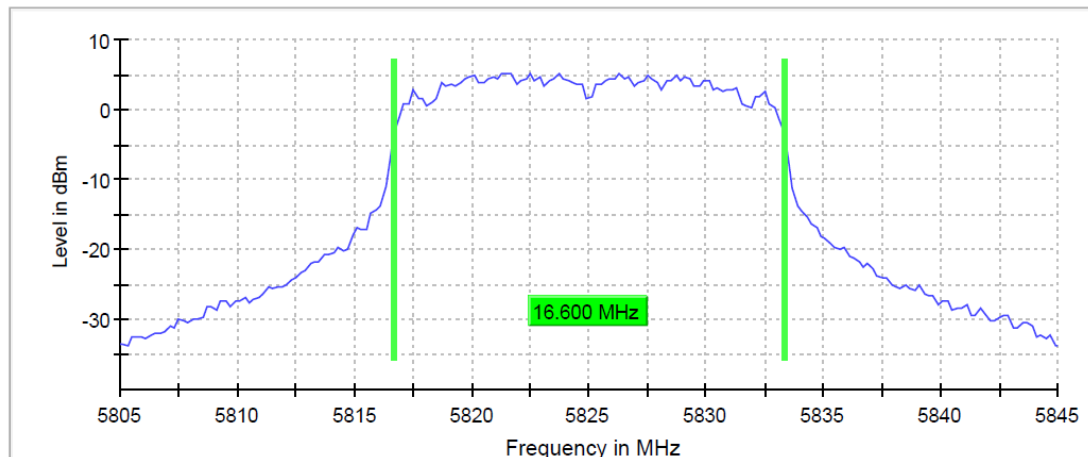
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.765000 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 KHz	200.000 KHz	200.000 KHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 μ s	28.477 μ s	28.477 μ s
Reference Level	10.000 dBm	0.000 dBm	0.000 dBm
Attenuation	30.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	50 / max. 150	51 / max. 150	51 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB	0.00 dB

TESTED SAMPLES: S/01

TEST RESULTS (Cont.): TC#02 (n mode)

TEST RESULTS: PASS

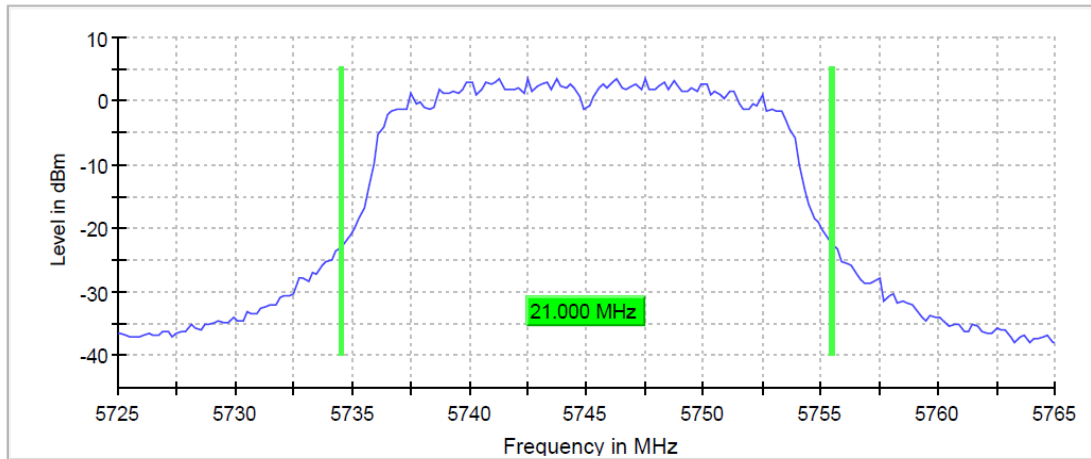
Bandwidth: 20 MHz

	Lowest frequency	Middle frequency	Highest frequency
	5745 MHz	5785 MHz	5825 MHz
26dB Bandwidth (MHz)	21.00	21.20	21.20
Occupied bandwidth (MHz)	17.40	17.40	17.40
Measurement uncertainty (kHz)	< \pm 8.33		

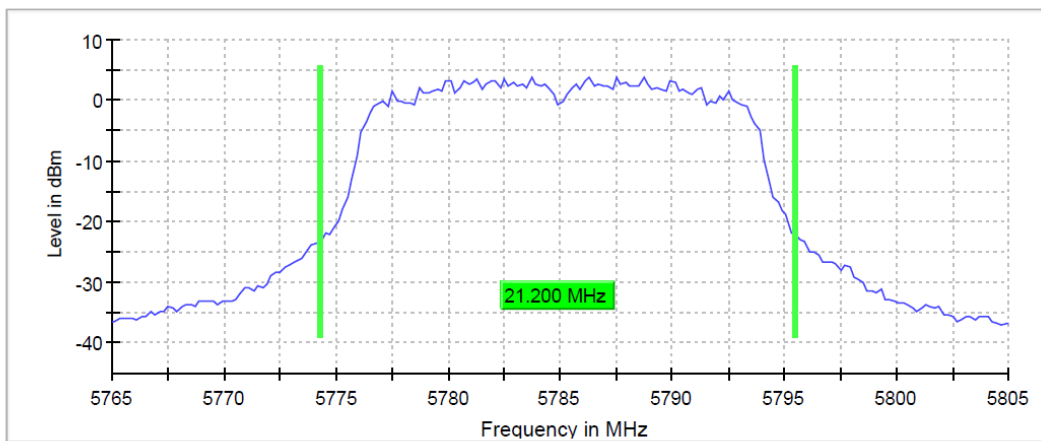
TEST RESULTS (Cont.):

26 dB BANDWIDTH

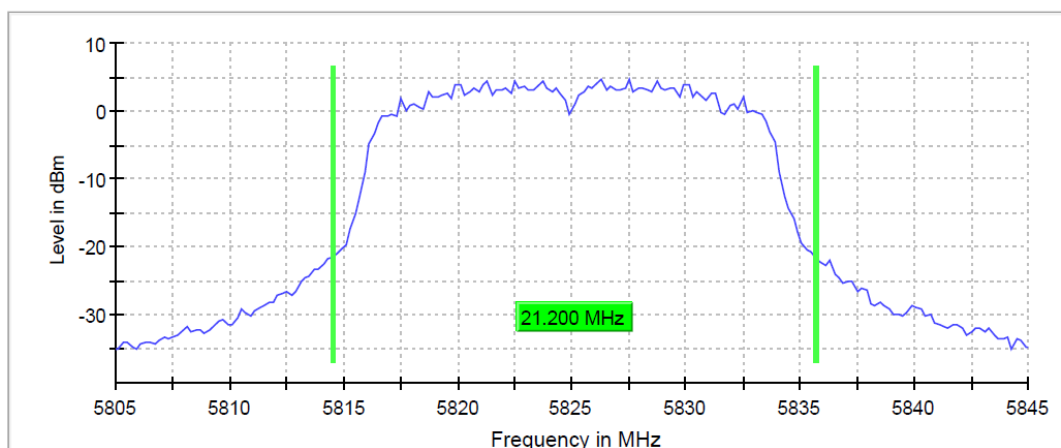
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.):

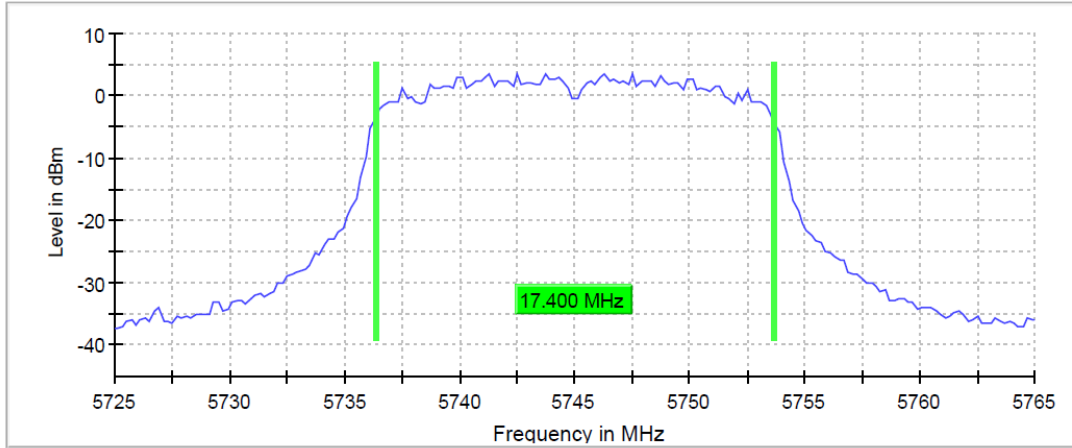
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 KHz	200.000 KHz	200.000 KHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 μ s	28.447 μ s	28.477 μ s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	78 / max. 150	34 / max. 150	43 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.16 dB	0.04 dB

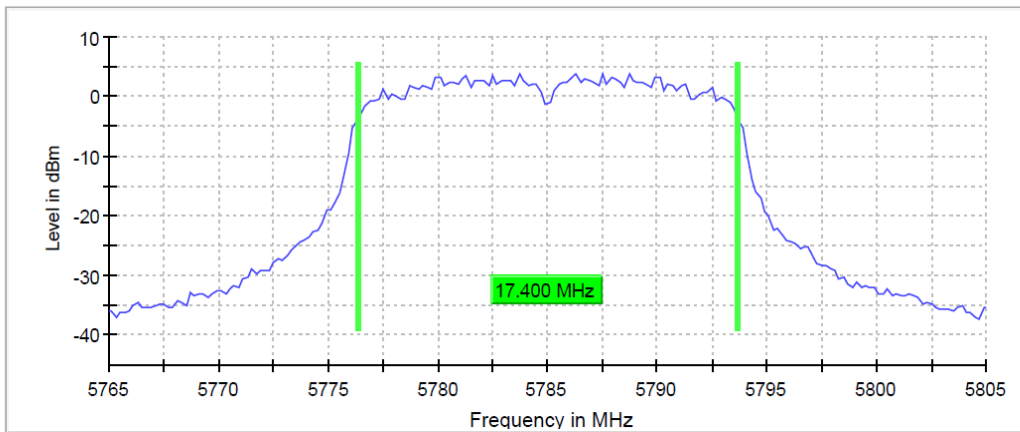
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

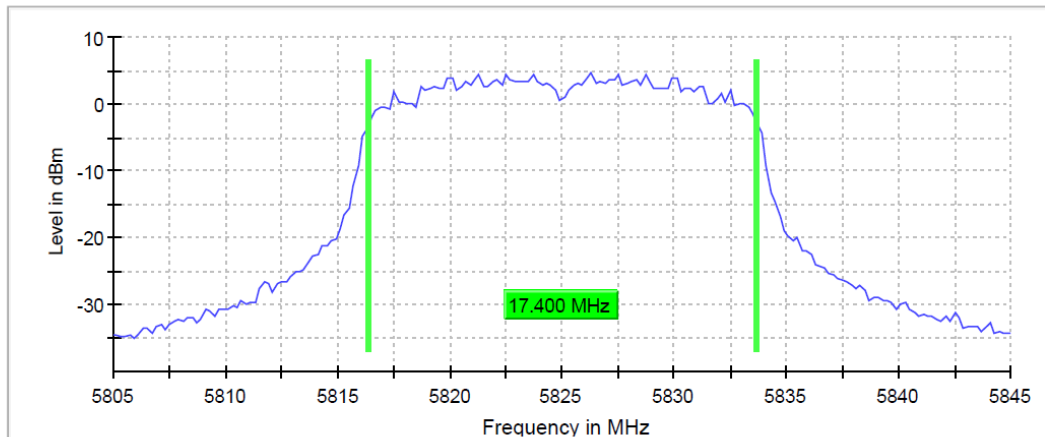
Lowest Channel



Middle Channel



Highest Channel

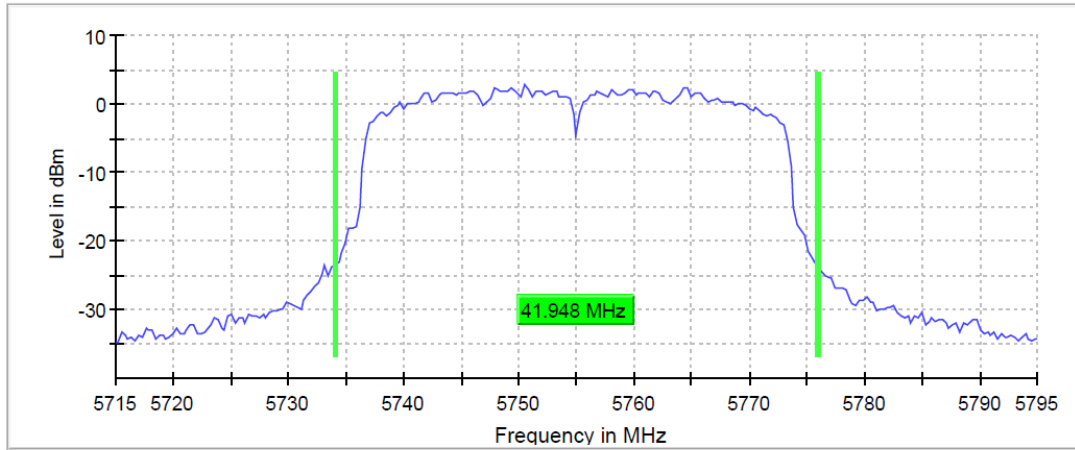


TEST RESULTS (Cont.)				
Measurement				
	Setting	Instrument Value	Instrument Value	Instrument Value
	Start Frequency	5.72500 GHz	5.765000 GHz	5.80500 GHz
	Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
	Span	40.000 MHz	40.000 MHz	40.000 MHz
	RBW	200.000 KHz	200.000 KHz	200.000 KHz
	VBW	1.000 MHz	1.000 MHz	1.000 MHz
	Sweep Points	400	400	400
	Sweep time	28.477 μ s	28.477 μ s	28.477 μ s
	Reference Level	10.000 dBm	0.000 dBm	0.000 dBm
	Attenuation	30.000 dB	20.000 dB	20.000 dB
	Detector	MaxPeak	MaxPeak	MaxPeak
	Sweep Count	200	200	200
	Filter	3 dB	3 dB	3 dB
	Trace Mode	Max Hold	Max Hold	Max Hold
	Sweep type	FFT	FFT	FFT
	Preamp	off	off	off
	Stable mode	Trace	Trace	Trace
	Stable value	0.30 dB	0.30 dB	0.30 dB
	Run	59 / max. 150	58 / max. 150	61 / max. 150
	Stable	5 / 5	5 / 5	5 / 5
	Max Stable Difference	0.00 dB	0.01 dB	0.28 dB
TESTED SAMPLES:	S/01			
TEST RESULTS (Cont.):	TC#02 (n mode)			
TEST RESULTS:	PASS			
Bandwidth: 40 MHz				
		Lowest frequency	Highest frequency	
		5755 MHz	5795 MHz	
	26dB Bandwidth (MHz)	41.94	43.14	
	Occupied bandwidth (MHz)	35.95	35.95	
	Measurement uncertainty (kHz)	$<\pm$ 8.33		

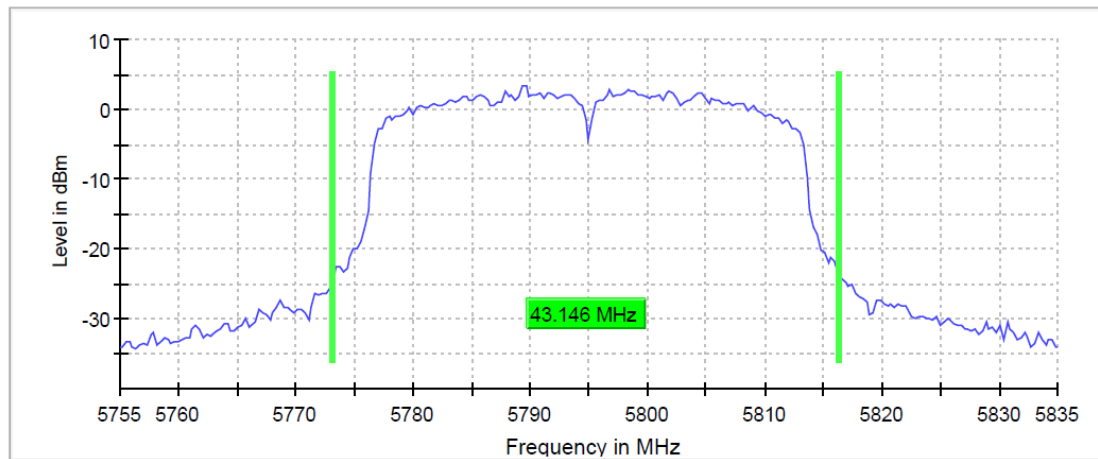
TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

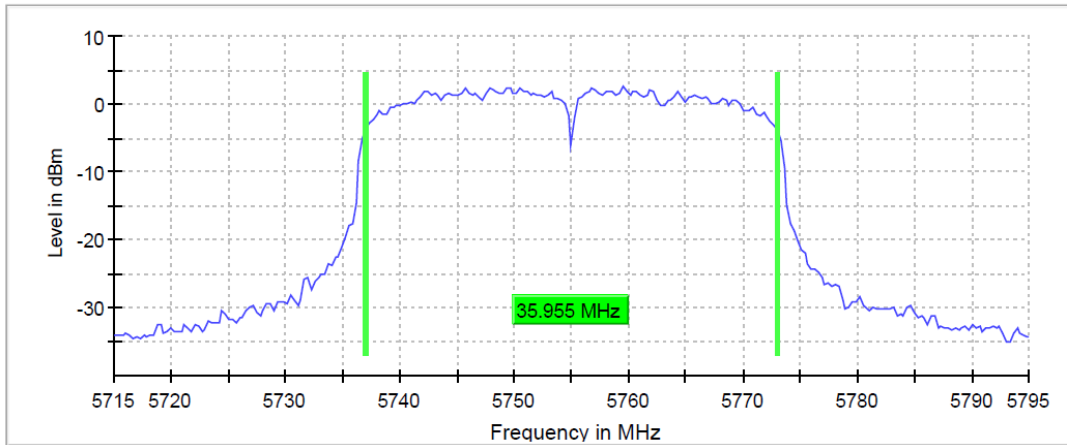
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.71500 GHz	5.75500 GHz
Stop Frequency	5.79500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 kHz
VBW	1.000 MHz	1.000 MHz
Sweep Points	267	267
Sweep time	31.603 μ s	31.603 μ s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.30 dB	0.30 dB
Run	85 / max. 150	55 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB

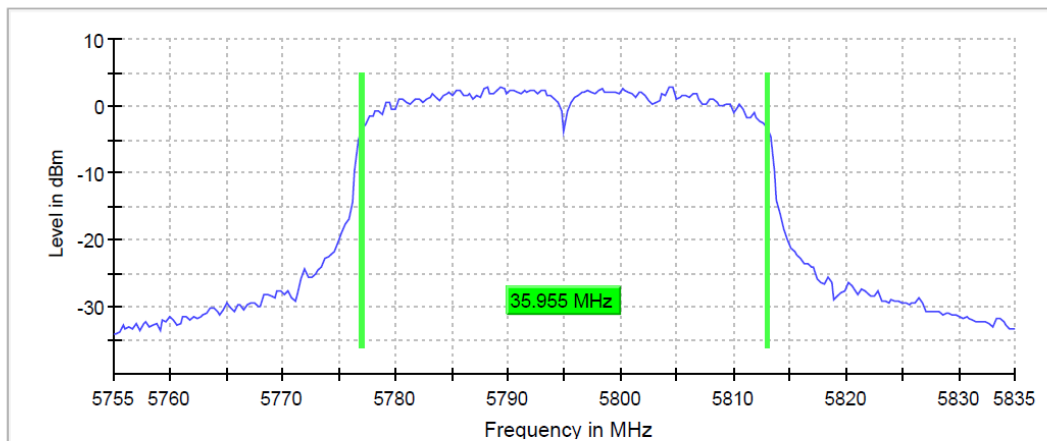
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Highest Channel

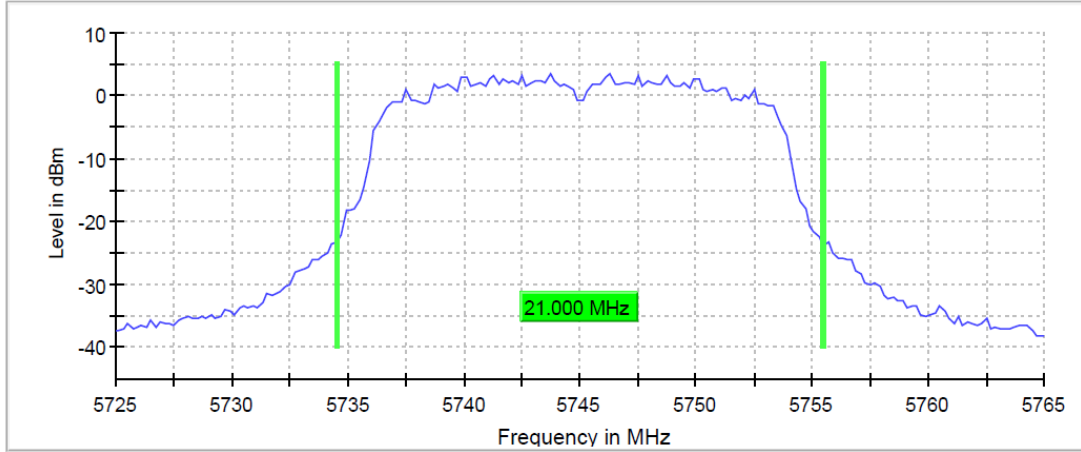


TEST RESULTS (Cont.)																																																																
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TEST RESULTS (Cont.):	TC#03 (ac mode)																																																															
TEST RESULTS:	PASS																																																															
Bandwidth: 20 MHz																																																																
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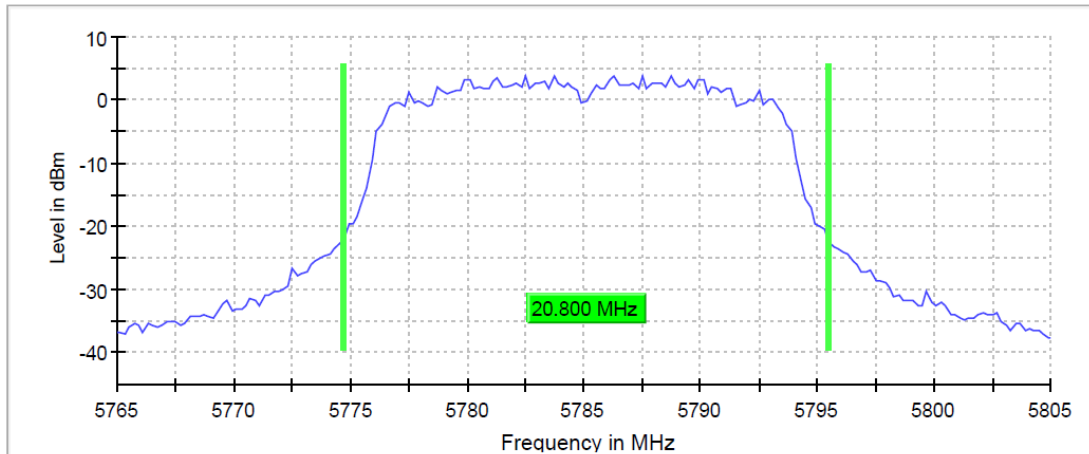
TEST RESULTS (Cont.):

26 dB BANDWIDTH

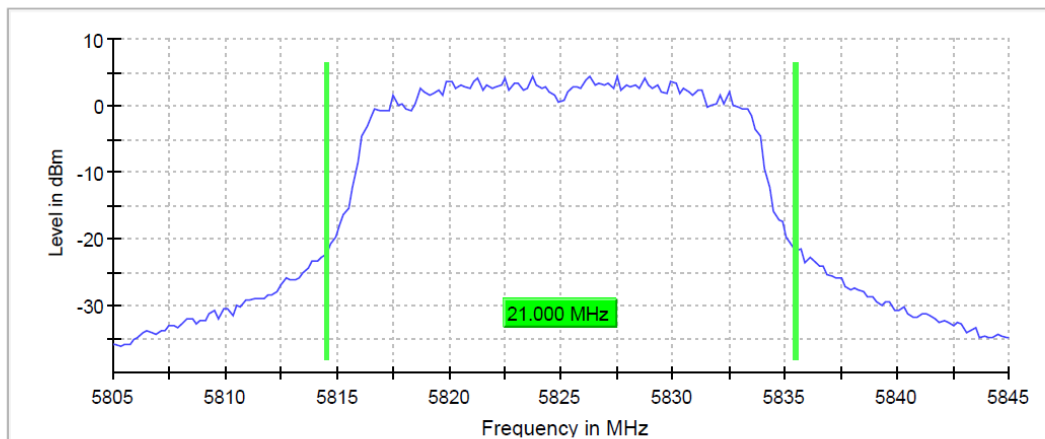
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 KHz	200.000 KHz	200.000 KHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 μ s	28.447 μ s	28.477 μ s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	36 / max. 150	45 / max. 150	31 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.16 dB	0.04 dB

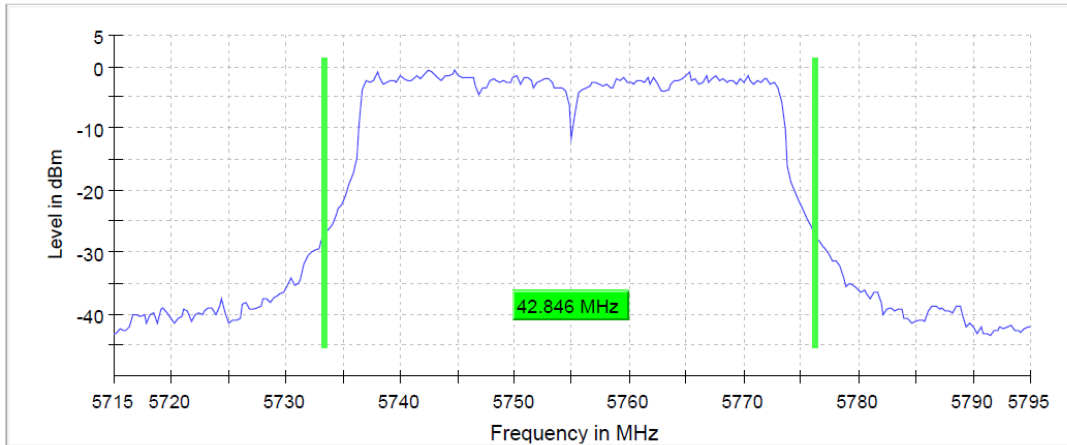
TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel	
Middle Channel	
Highest Channel	

TEST RESULTS (Cont.)			
Measurement			
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.765000 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	200.000 KHz	200.000 KHz	200.000 KHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 μ s	28.477 μ s	28.477 μ s
Reference Level	10.000 dBm	0.000 dBm	0.000 dBm
Attenuation	30.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	44 / max. 150	52 / max. 150	34 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.01 dB	0.28 dB
TESTED SAMPLES:	S/01		
TEST RESULTS (Cont.):	TC#03 (ac mode)		
TEST RESULTS:	PASS		
Bandwidth: 40 MHz			
	Lowest frequency	Highest frequency	
	5755 MHz	5795 MHz	
26dB Bandwidth (MHz)	42.84	42.84	
Occupied bandwidth (MHz)	36.55	36.55	
Measurement uncertainty (kHz)	$<\pm$ 8.33		

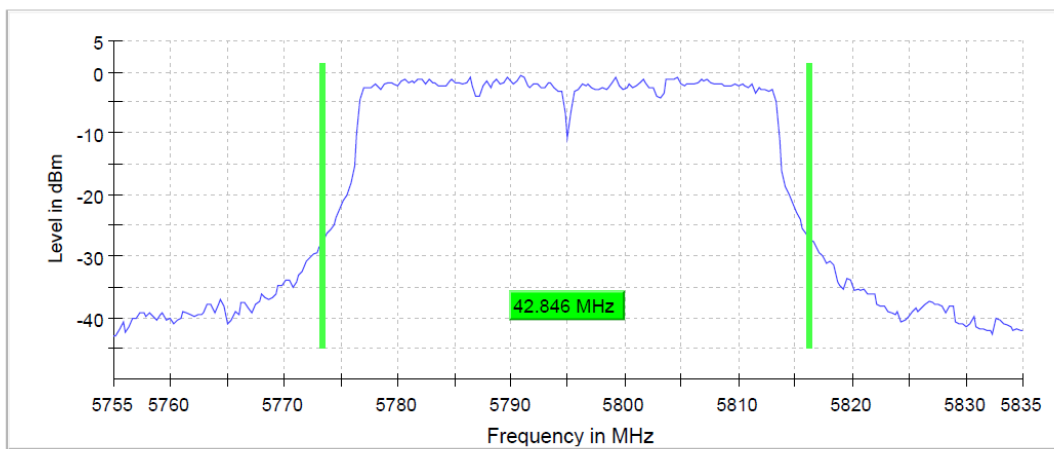
TEST RESULTS (Cont.):

26 dB BANDWIDTH

Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

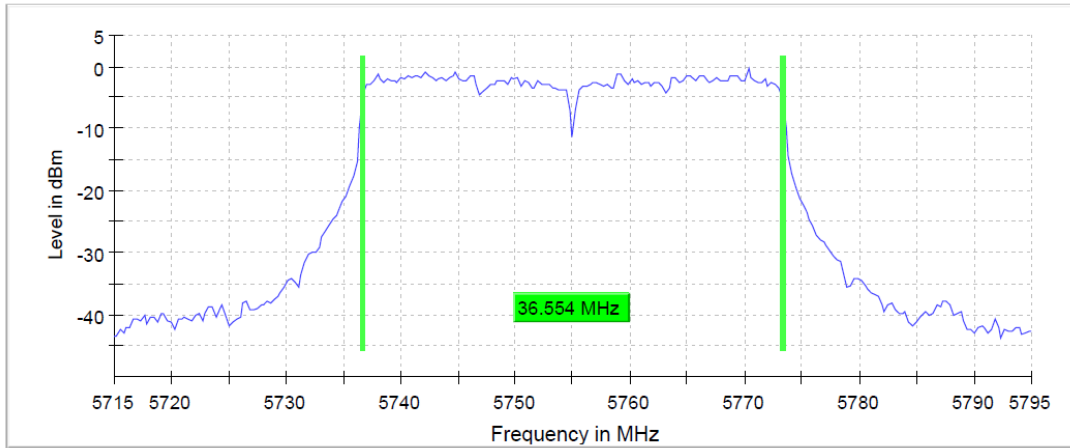
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.71500 GHz	5.75500 GHz
Stop Frequency	5.79500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	300.000 kHz
VBW	1.000 MHz	1.000 MHz
Sweep Points	267	267
Sweep time	31.603 μ s	31.603 μ s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.30 dB	0.30 dB
Run	70 / max. 150	72 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.00 dB

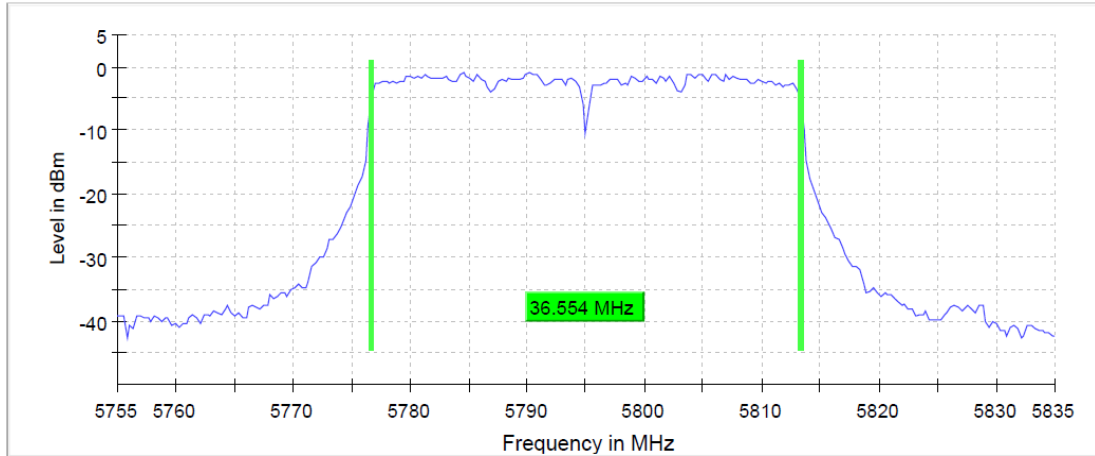
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Lowest Channel



Highest Channel

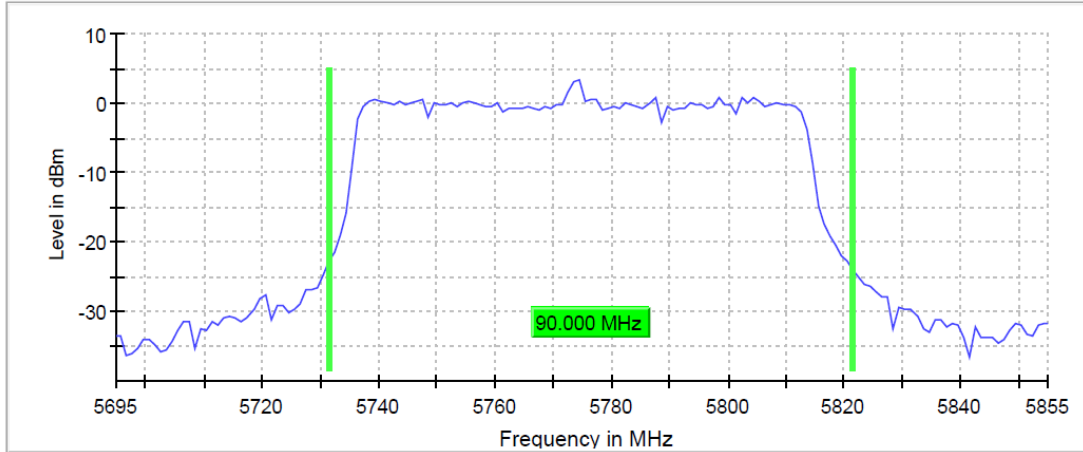


TEST RESULTS (Cont.)																																																																
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TESTED SAMPLES:	S/01																																																															
TEST RESULTS (Cont.):	TC#03 (ac mode)																																																															
TEST RESULTS:	PASS																																																															
Bandwidth: 80 MHz																																																																
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Measurement uncertainty (kHz)	< \pm 8.33																																																															

TEST RESULTS (Cont.):

26 dB BANDWIDTH

Middle Channel



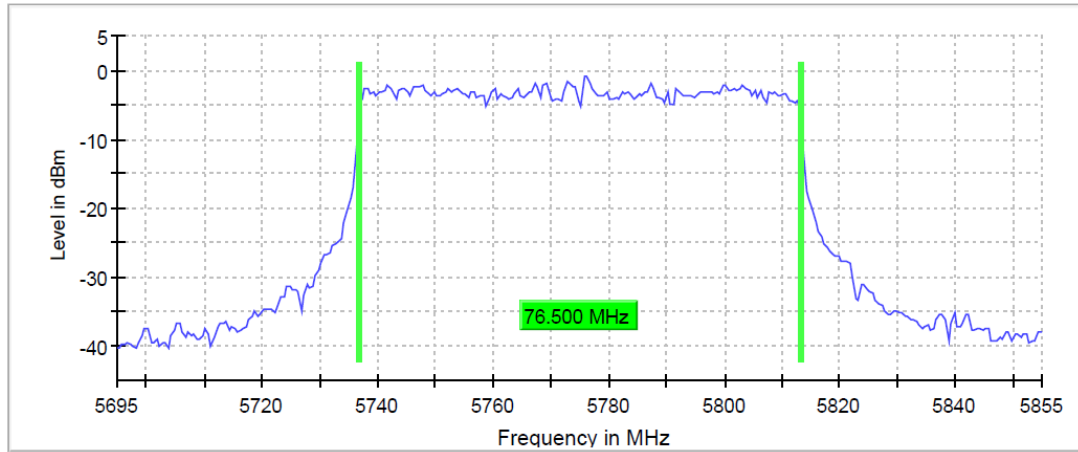
Measurement

Setting	Instrument Value
Start Frequency	5.69500 GHz
Stop Frequency	5.85500 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
Sweep Points	160
Sweep time	22.754 μ s
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	MaxPeak
Sweep Count	200
Filter	3 dB
Trace Mode	Max Hold
Sweep type	FFT
Preamp	off
Stable mode	Trace
Stable value	0.30 dB
Run	62 / max. 150
Stable	5 / 5
Max Stable Difference	0.00 dB

TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

Middle Channel



Measurement

Setting	Instrument Value
Start Frequency	5.69500 GHz
Stop Frequency	5.85500 GHz
Span	160.000 MHz
RBW	1.000 MHz
VBW	3.000 MHz
Sweep Points	160
Sweep time	22.754 μ s
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	MaxPeak
Sweep Count	200
Filter	3 dB
Trace Mode	Max Hold
Sweep type	FFT
Preamp	off
Stable mode	Trace
Stable value	0.30 dB
Run	87 / max. 150
Stable	5 / 5
Max Stable Difference	0.00 dB

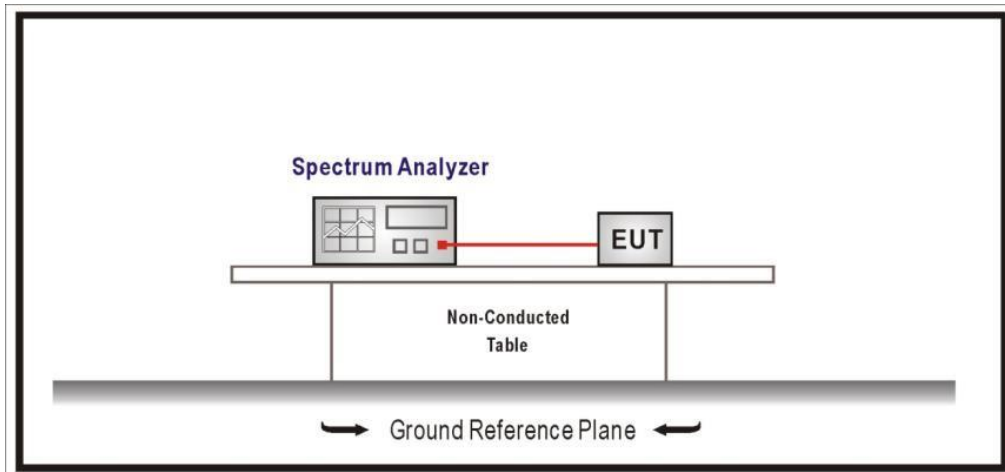
SECTION B.2: 6DB EMISSION BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart E §15.407 and RSS-247
	Test standard:	Part 15 Subpart E §15.407(e) and RSS-247 6.2.4.1

LIMITS:

Within the 5.725 – 5.85 GHz band, the minimum 6dB bandwidth of U-NII devices shall be at least 500 KHz.

TEST SETUP:	
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TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

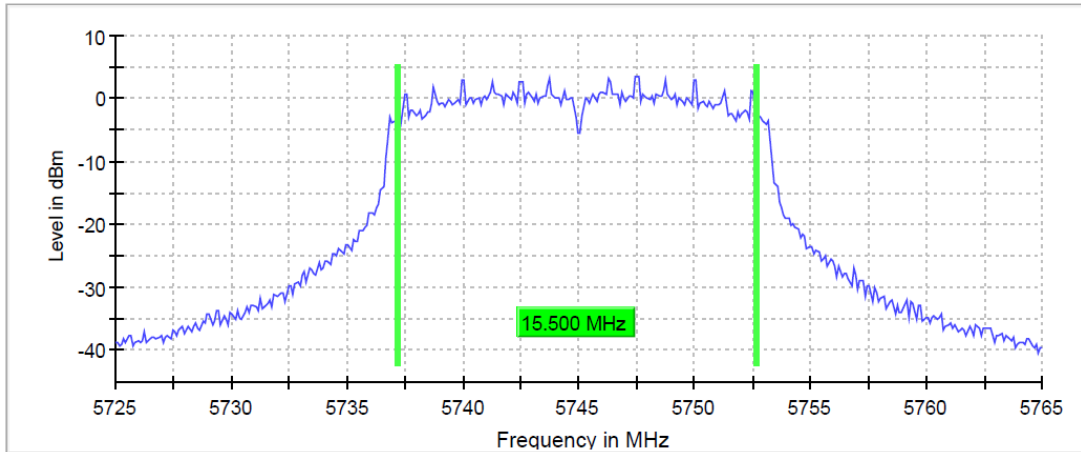
Bandwidth: 20 MHz

	Lowest frequency	Middle frequency	Highest frequency
	5745 MHz	5785 MHz	5825 MHz
6dB Bandwidth (MHz)	15.50	15.50	15.70
Measurement uncertainty (kHz)	<± 8.33		

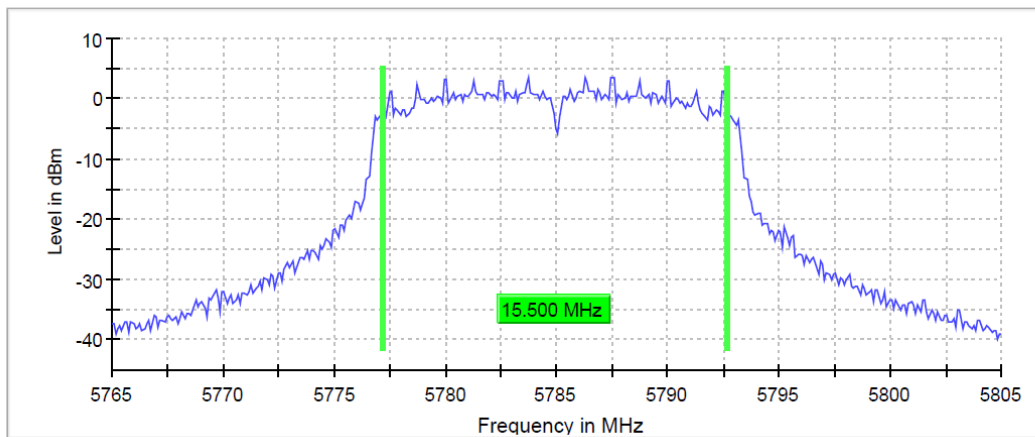
TEST RESULTS (Cont.):

6 dB BANDWIDTH

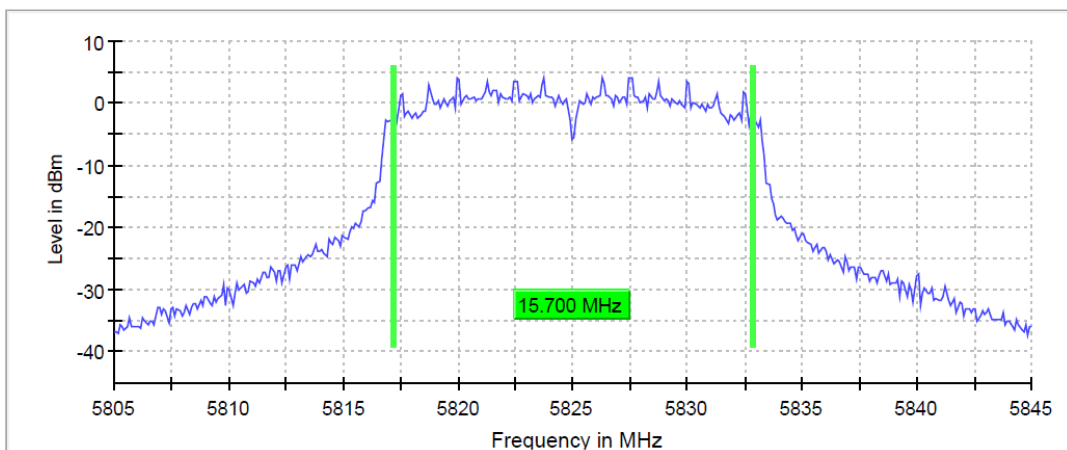
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.)

Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
Reference Level	10.000 dBm	0.000 dBm	0.000 dBm
Attenuation	30.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	61 / max. 150	76 / max. 150	50 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.20 dB	0.02 dB	0.15 dB

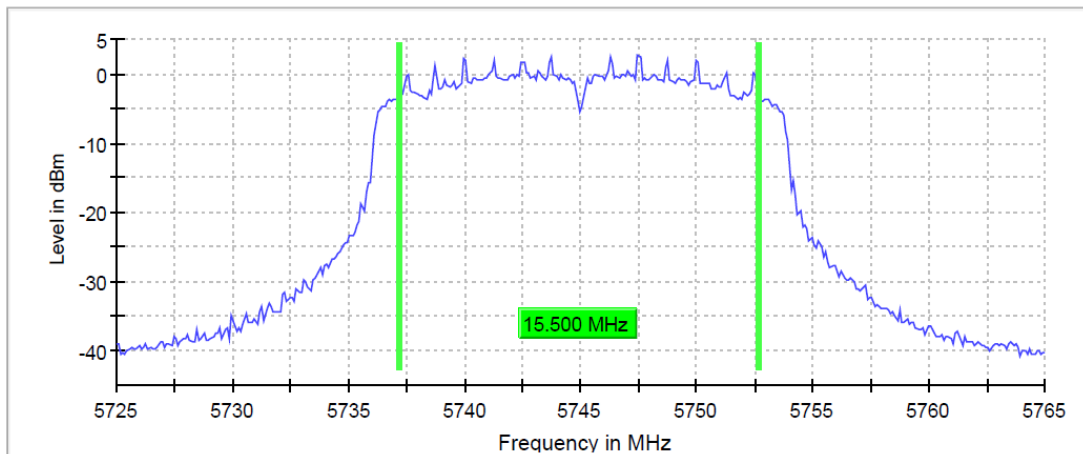
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n Mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

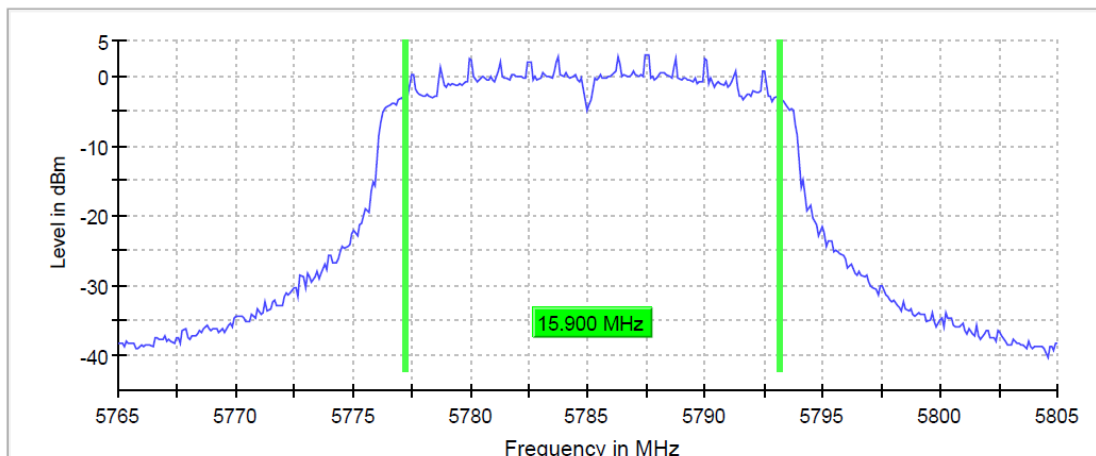
	Lowest frequency	Middle frequency	Highest frequency
	5745 MHz	5785 MHz	5825 MHz
6dB bandwidth (MHz)	15.50	15.90	15.40
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	6 dB BANDWIDTH
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Lowest Channel

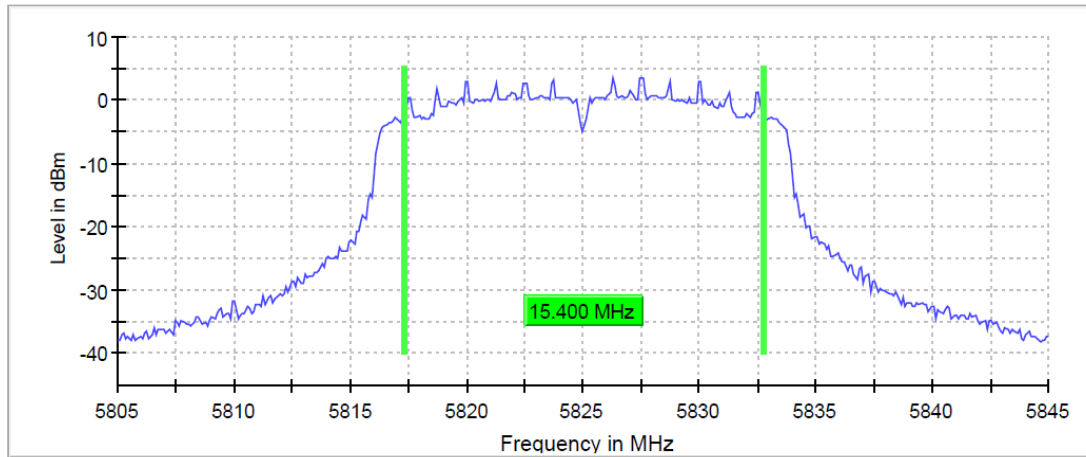


Middle Channel



TEST RESULTS (Cont.):

Highest Channel



Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
Reference Level	10.000 dBm	0.000 dBm	0.000 dBm
Attenuation	30.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	47 / max. 150	73 / max. 150	69 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.26 dB	0.00 dB	0.12 dB

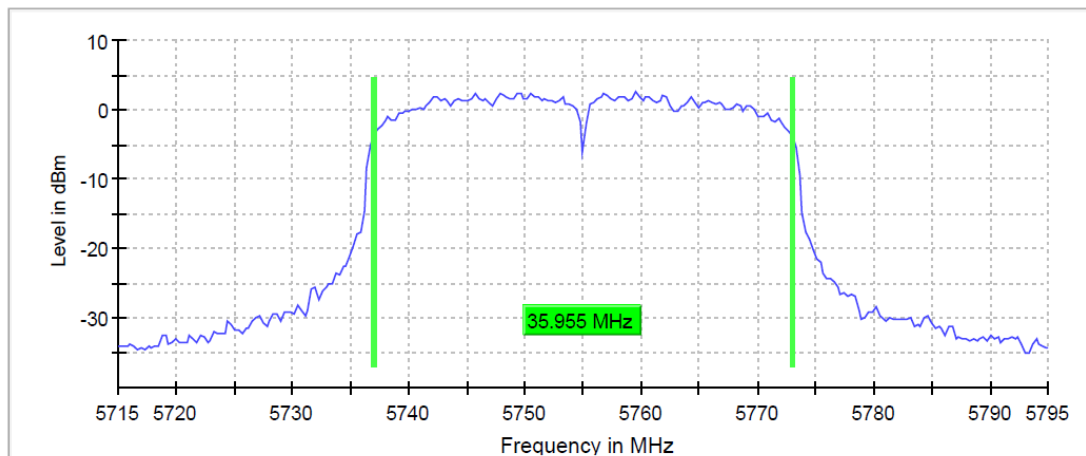
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n Mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

	Lowest frequency 5755 MHz	Highest frequency 5795 MHz
6dB bandwidth (MHz)	35.95	35.30
Measurement uncertainty (kHz)	<± 8.33	

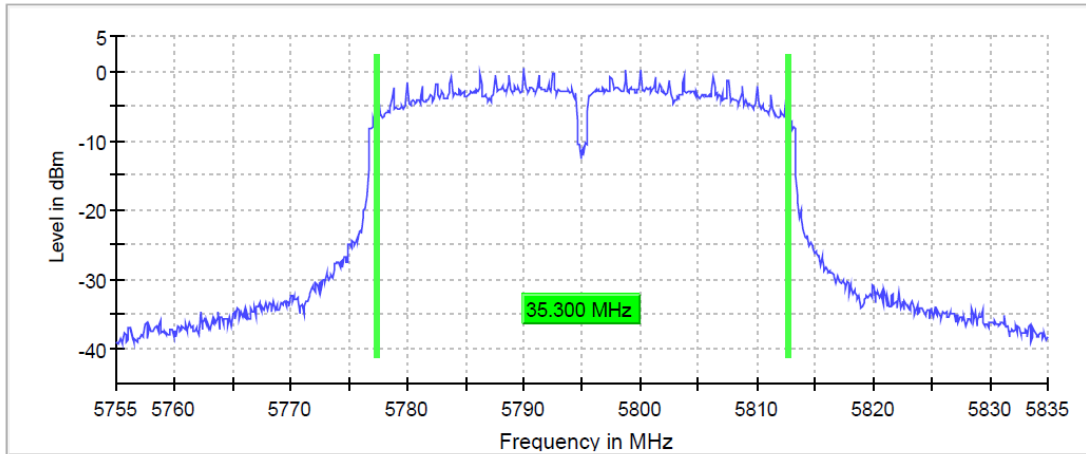
TEST RESULTS (Cont.):	6 dB BANDWIDTH
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Lowest Channel



TEST RESULTS (Cont.):

Highest Channel



Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.71500 GHz	5.75500 GHz
Stop Frequency	5.79500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz
Sweep Points	800	800
Sweep time	94.810 μ s	94.810 μ s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.30 dB	0.30 dB
Run	102 / max. 150	61 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.01 dB	0.10 dB

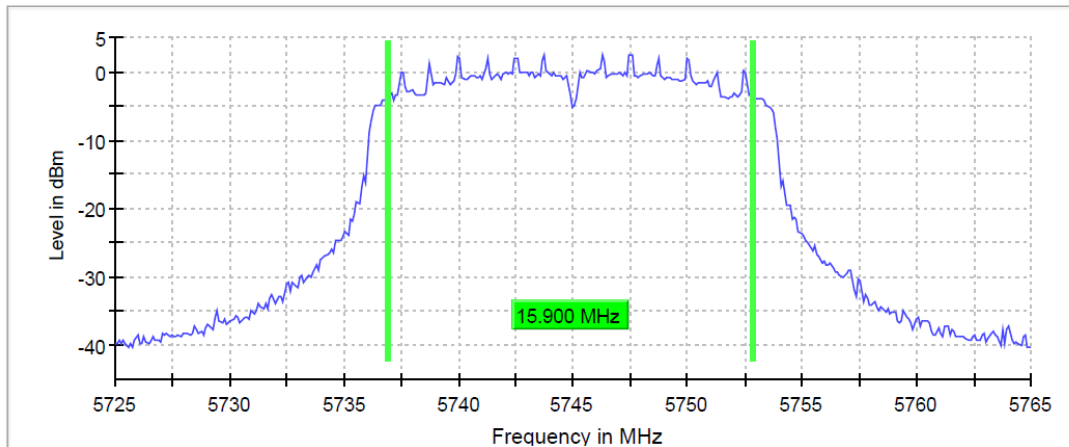
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac Mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

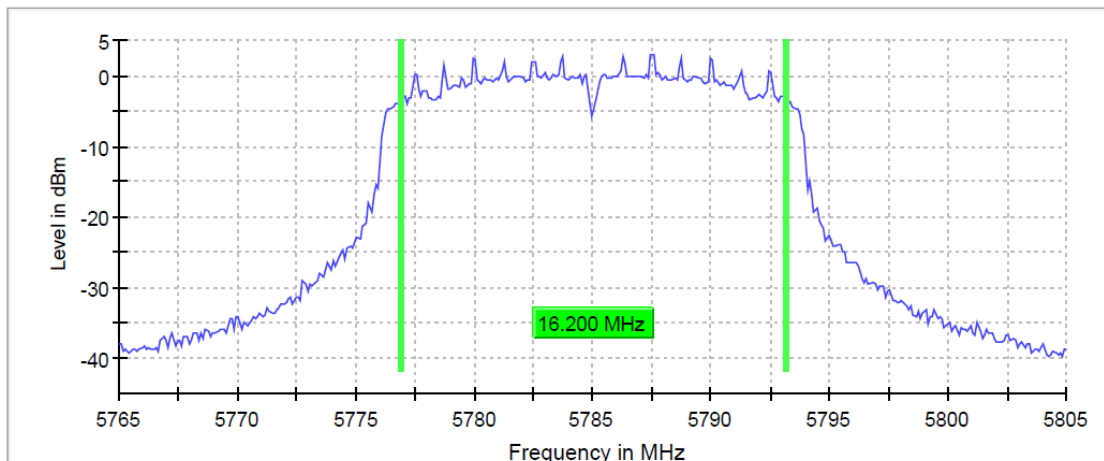
	Lowest frequency	Middle frequency	Highest frequency
	5745 MHz	5785 MHz	5825 MHz
6dB bandwidth (MHz)	15.90	16.20	15.90
Measurement uncertainty (kHz)	<± 8.33		

TEST RESULTS (Cont.):	6 dB BANDWIDTH
------------------------------	-----------------------

Lowest Channel

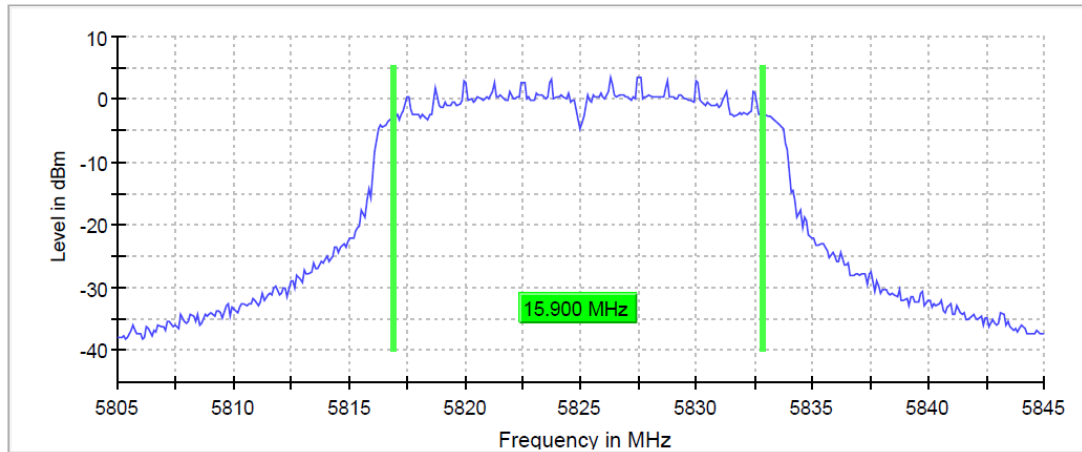


Middle Channel



TEST RESULTS (Cont.):

Highest Channel



Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.76500 GHz	5.80500 GHz
Stop Frequency	5.76500 GHz	5.80500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
Reference Level	10.000 dBm	0.000 dBm	0.000 dBm
Attenuation	30.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	200	200	200
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	72 / max. 150	65 / max. 150	97 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.02 dB	0.22 dB

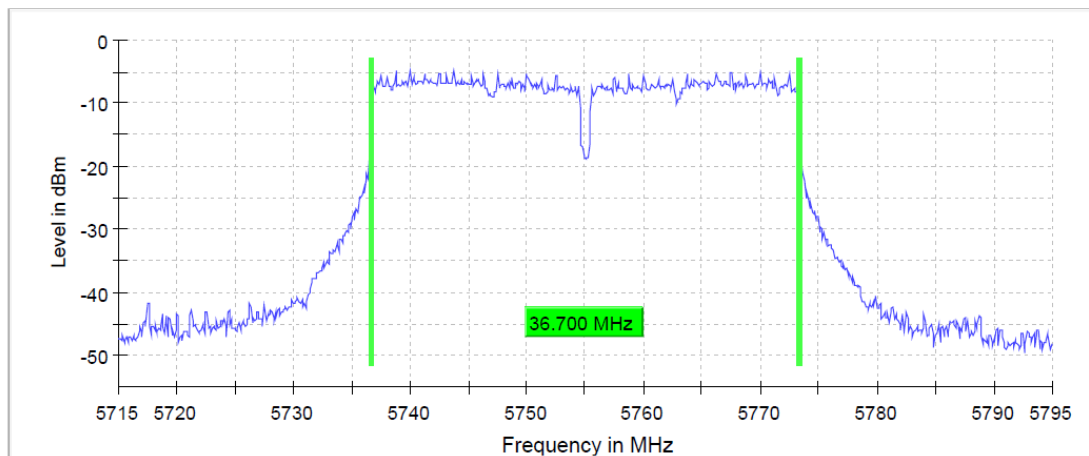
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac Mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

	Lowest frequency 5755 MHz	Highest frequency 5795 MHz
6dB bandwidth (MHz)	36.70	36.70
Measurement uncertainty (kHz)	<± 8.33	

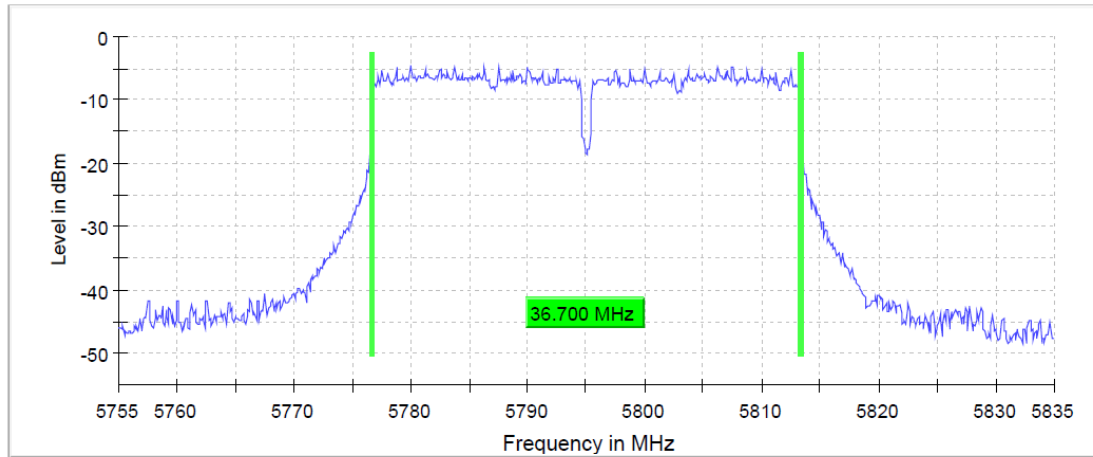
TEST RESULTS (Cont.):	6 dB BANDWIDTH
------------------------------	-----------------------

Lowest Channel



TEST RESULTS (Cont.):

Highest Channel



Measurement

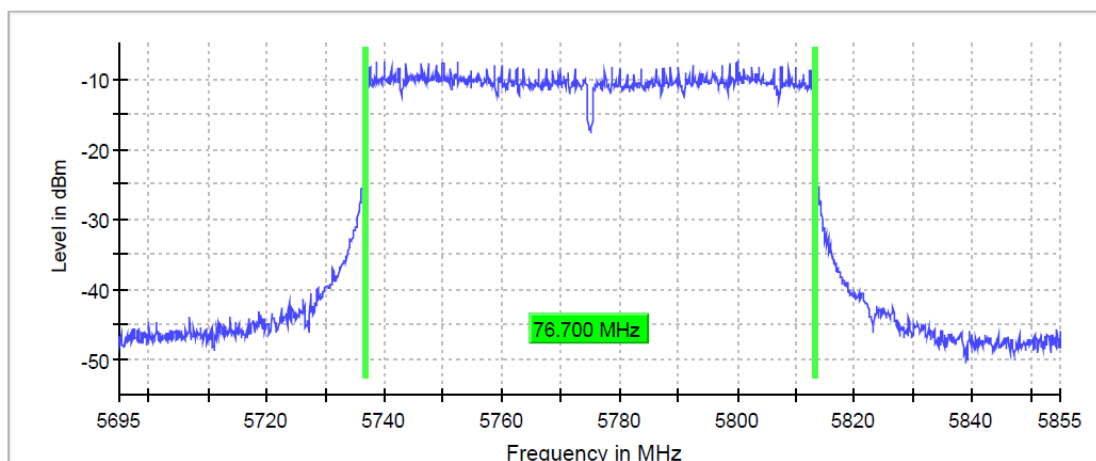
Setting	Instrument Value	Instrument Value
Start Frequency	5.71500 GHz	5.75500 GHz
Stop Frequency	5.79500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 KHz	300.000 KHz
Sweep Points	800	800
Sweep time	94.810 μ s	94.810 μ s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.30 dB	0.30 dB
Run	107 / max. 150	113 / max. 150
Stable	5 / 5	5 / 5
Max Stable Difference	0.00 dB	0.04 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac Mode)
TEST RESULTS:	PASS

Bandwidth: 80 MHz

	Middle frequency 5775 MHz
6dB bandwidth (MHz)	76.70
Measurement uncertainty (kHz)	<± 8.33

Middle Channel



Measurement

Setting	Instrument Value
Start Frequency	5.69500 GHz
Stop Frequency	5.85500 GHz
Span	160.000 MHz
RBW	100.000 kHz
VBW	300.000 kHz
Sweep Points	1600
Sweep time	182.620 μ s
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	MaxPeak
Sweep Count	200
Filter	3 dB
Trace Mode	Max Hold
Sweep type	FFT
Preamp	off
Stable mode	Trace
Stable value	0.30 dB
Run	142 / max. 150
Stable	5 / 5
Max Stable Difference	0.14 dB

SECTION B.3: POWER LIMITS. MAXIMUM OUTPUT POWER

LIMITS:	Product standard:	Part 15 Subpart E §15.407 and RSS-247
	Test standard:	Part 15 Subpart E §15.407(a) (3) (4) and RSS-247 6.2.4.1

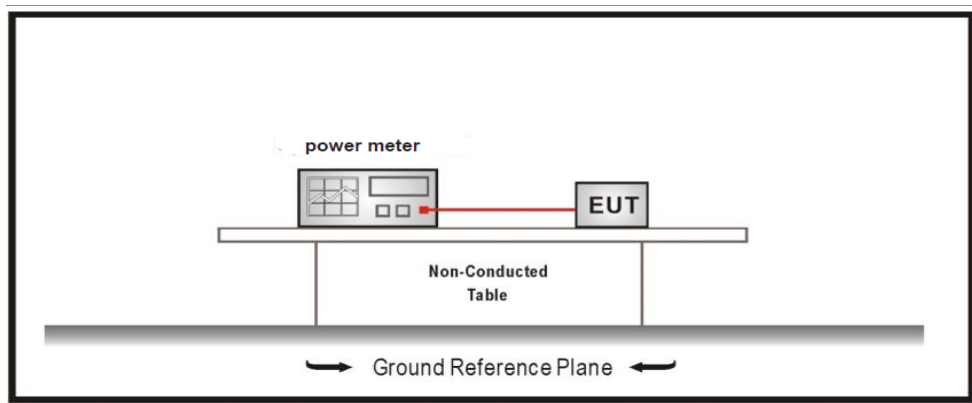
LIMITS

In band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1-megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

Measured according to ANSI C63.10, Section 11.9.2.3.2 Method AVGPM-G

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

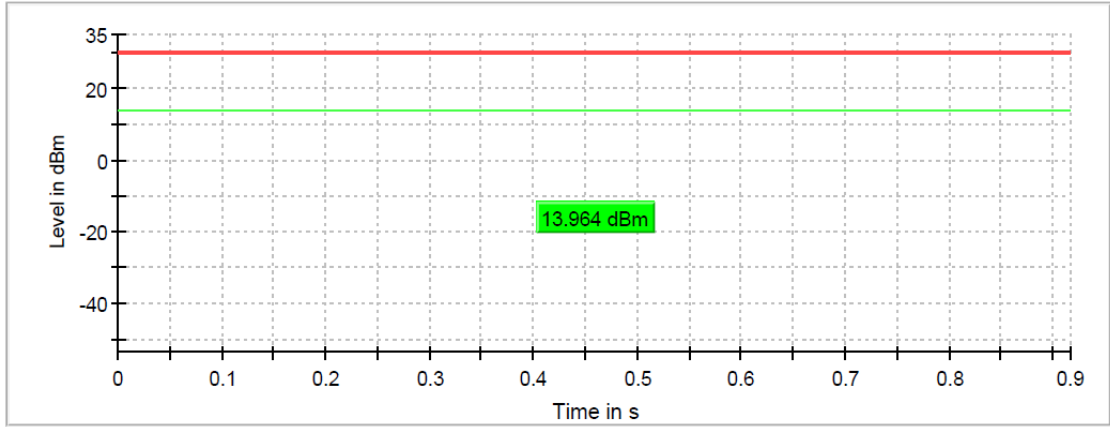
Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Maximum conducted power (dBm)	14.00	14.10	14.50
Maximum EIRP power (dBm)	18.50	18.60	19.00
Measurement uncertainty (dB)	<±0.78		

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values

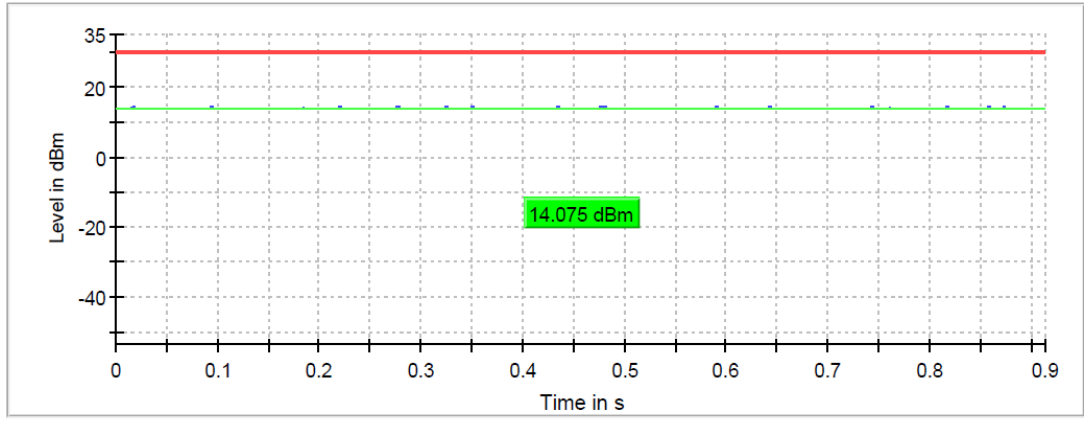
TEST RESULTS (Cont.):	CONDUCTED OUTPUT POWER
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Lowest Channel



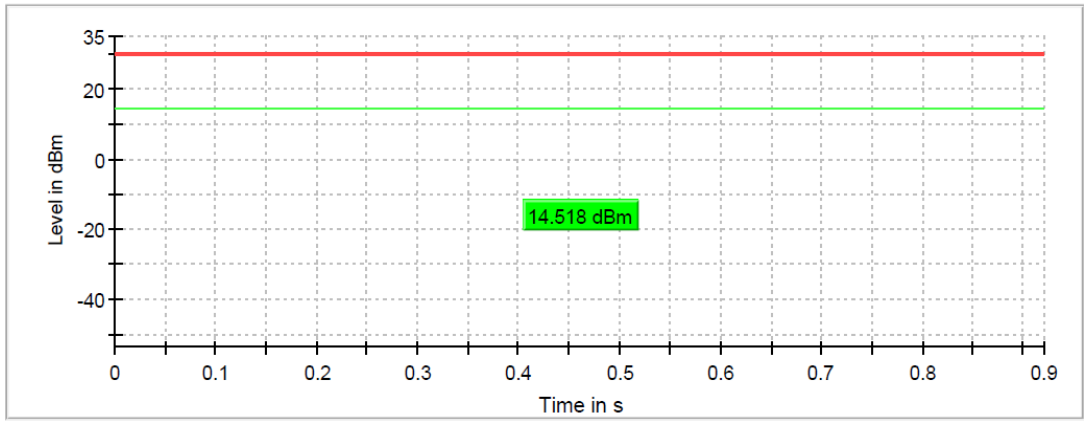
— Gated Trace — Overall — Limit

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

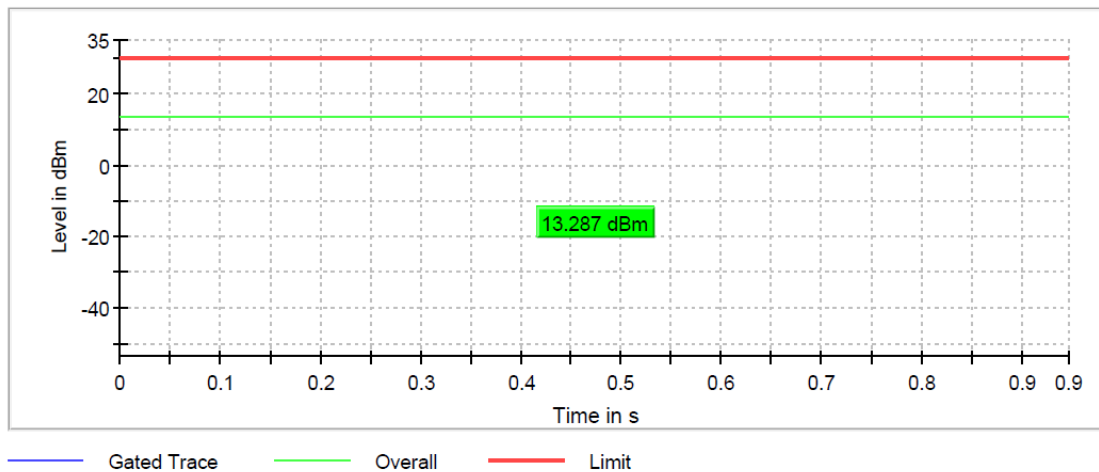
Bandwidth: 20 MHz

Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Maximum conducted power (dBm)	13.30	13.70	14.04
Maximum EIRP power (dBm)	17.80	18.20	18.54
Measurement uncertainty (dB)	<±0.78		

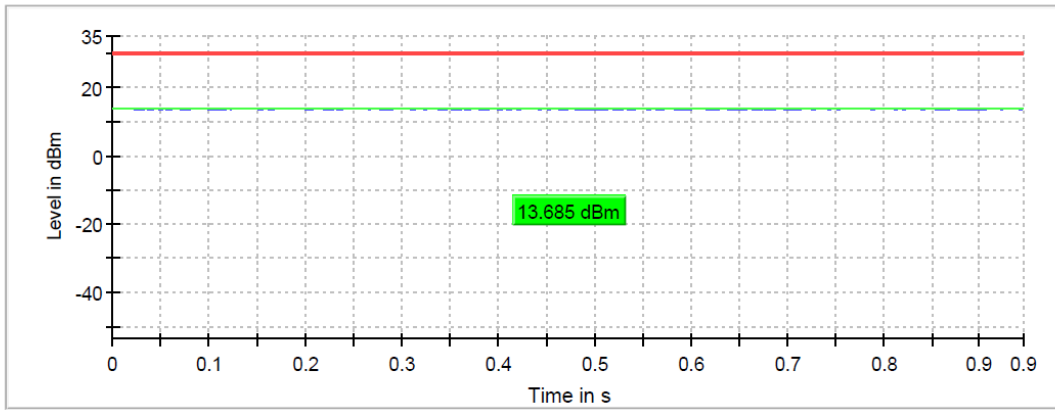
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel



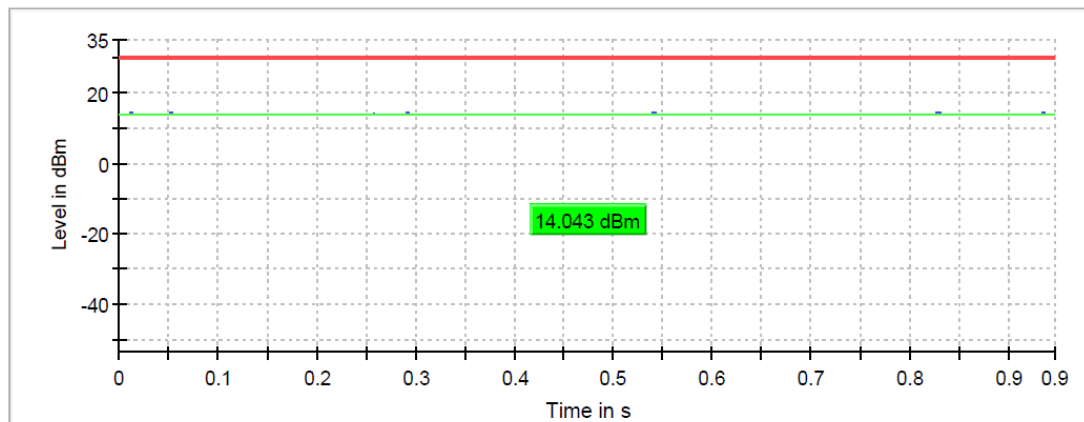
TEST RESULTS (Cont.)

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

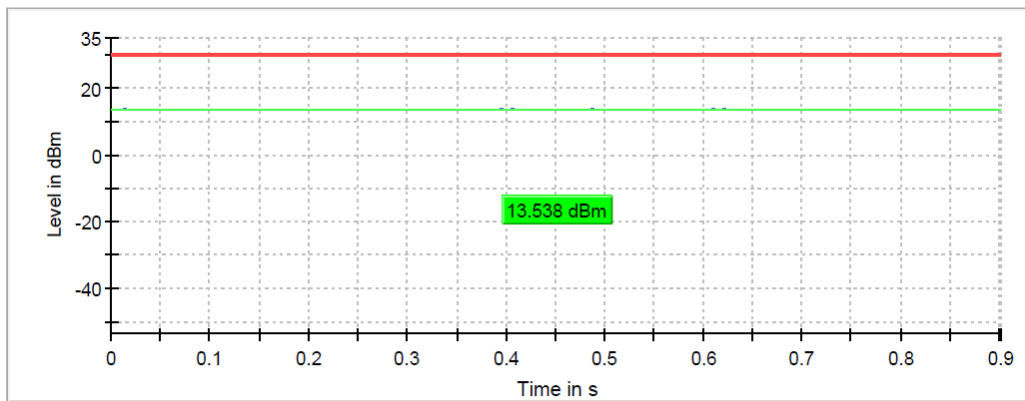
Bandwidth: 40 MHz

Maximum declared antenna gain: 4.5 dBi

	Lowest frequency	Highest frequency
	5755 MHz	5795 MHz
Maximum conducted power (dBm)	13.50	13.90
Maximum EIRP power (dBm)	18.00	18.40
Measurement uncertainty (dB)	<±0.78	

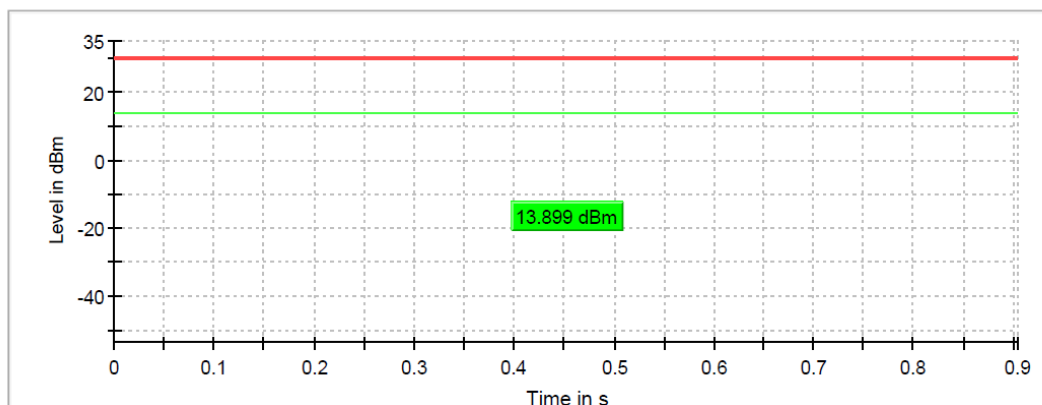
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

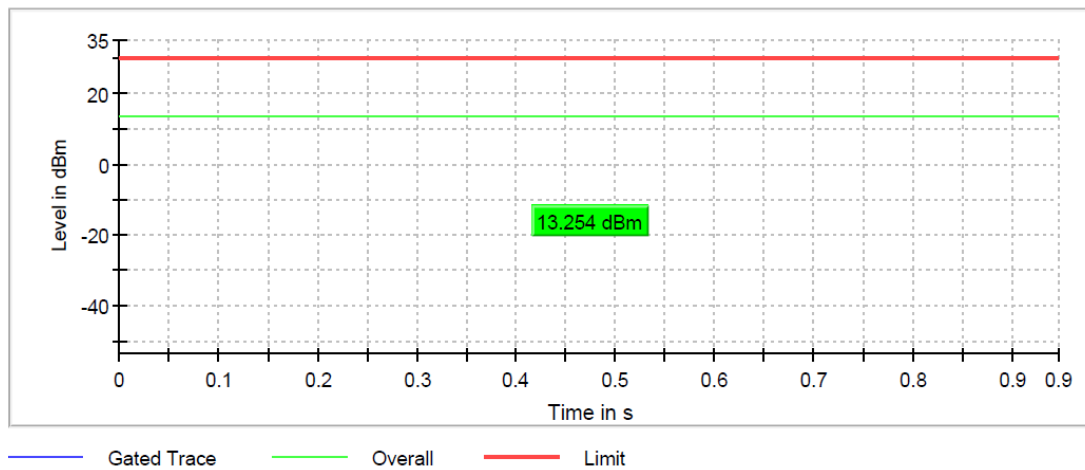
Bandwidth: 20 MHz

Maximum declared antenna gain: 4.5 dBi

	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Maximum conducted power (dBm)	13.30	13.70	14.04
Maximum EIRP power (dBm)	17.80	18.20	18.54
Measurement uncertainty (dB)	<±0.78		

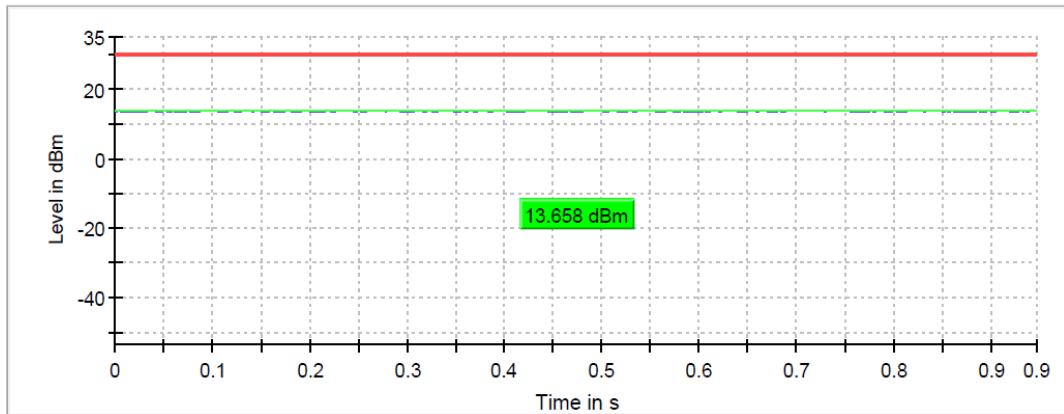
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel



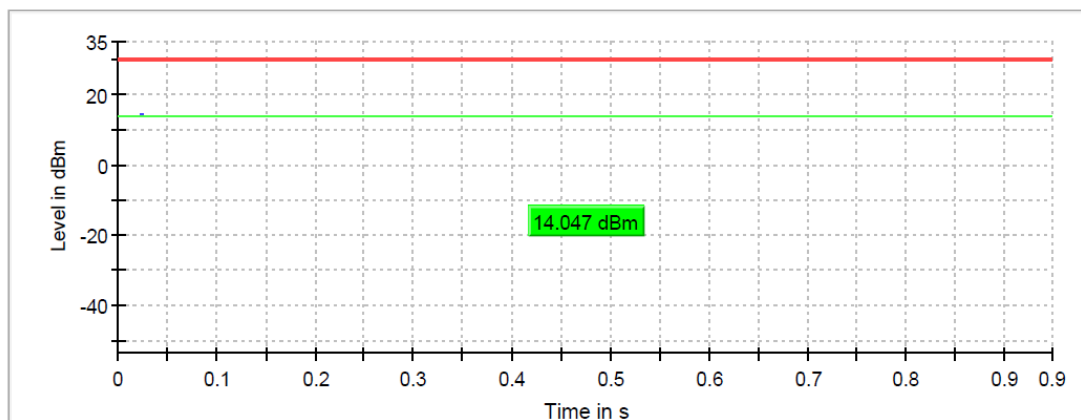
TEST RESULTS (Cont.)

Middle Channel



— Gated Trace — Overall — Limit

Highest Channel



— Gated Trace — Overall — Limit

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

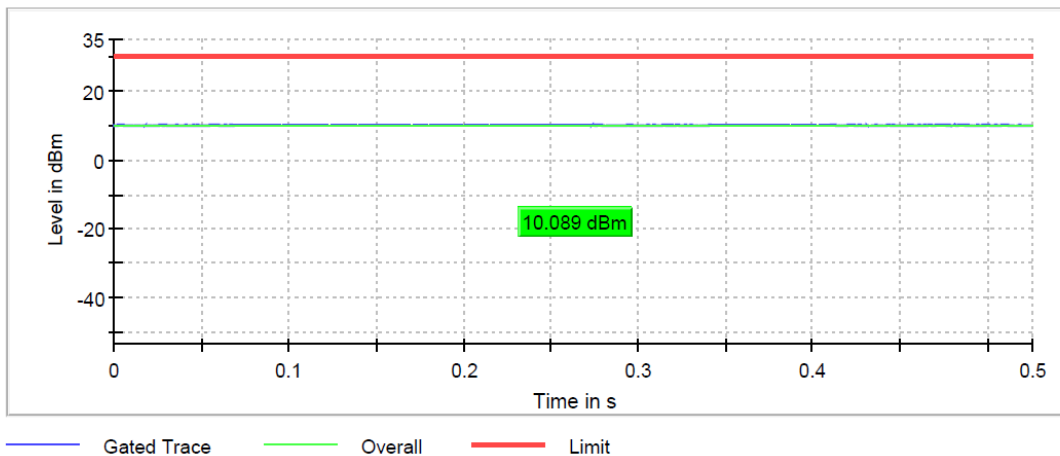
Bandwidth: 40 MHz

Maximum declared antenna gain: 4.5 dBi

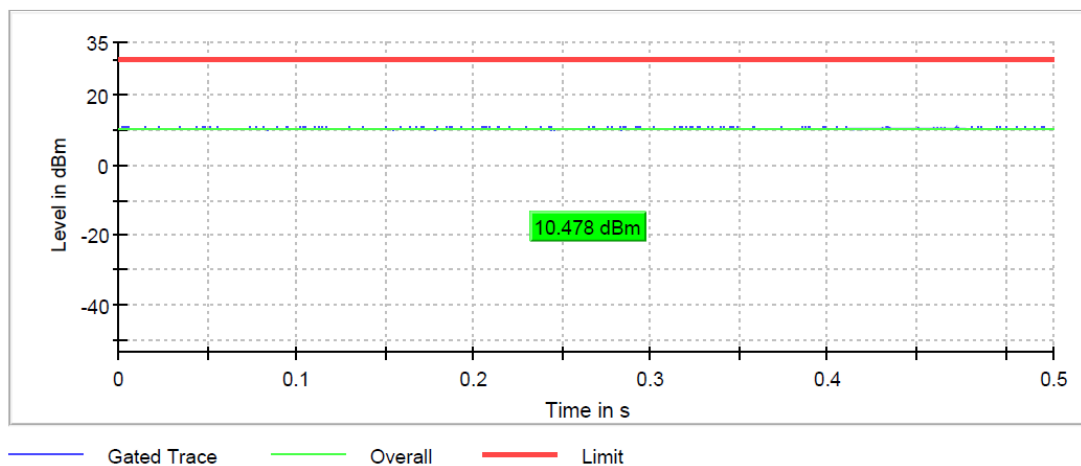
	Lowest frequency 5755 MHz	Highest frequency 5795 MHz
Maximum conducted power (dBm)	10.10	10.50
Maximum EIRP power (dBm)	14.60	15.00
Measurement uncertainty (dB)	$<\pm 0.78$	

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

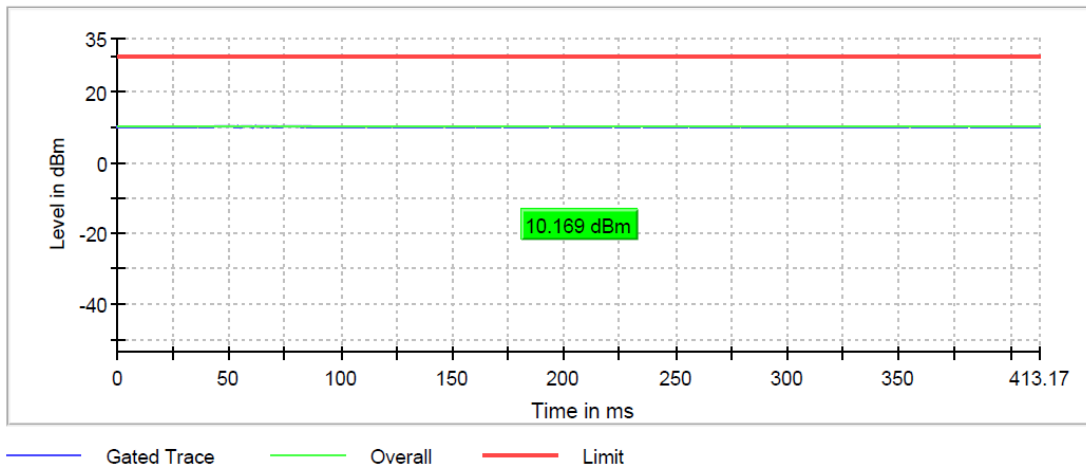
Bandwidth: 80 MHz

Maximum declared antenna gain: 4.5 dBi

	Middle frequency 5775 MHz
Maximum conducted power (dBm)	10.20
Maximum EIRP power (dBm)	14.70
Measurement uncertainty (dB)	<±0.78

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Middle Channel



SECTION B.4: POWER SPECTRAL DENSITY

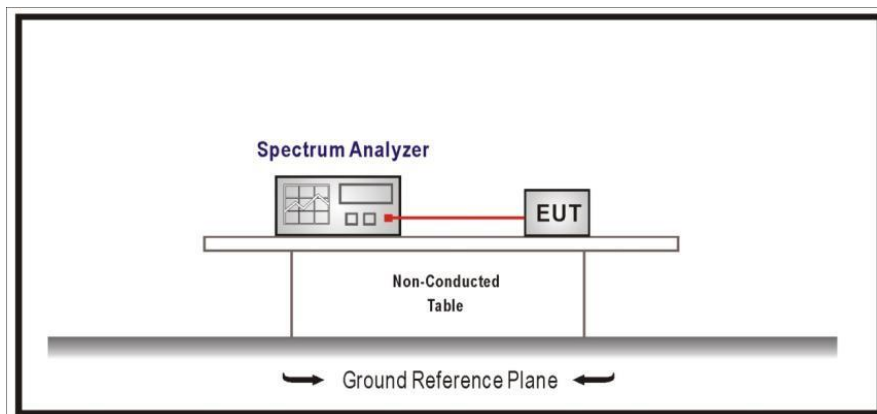
LIMITS:	Product standard:	Part 15 Subpart E §15.407 and RSS-247
	Test standard:	Part 15 Subpart E §15.407(a) (3) (5) and RSS-247 6.2.4.1

LIMITS

In the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1-megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

For all modes, the maximum power spectral density level in the fundamental emission was measured using the method according to point F) (Method SA-1) of Guidance 789033 D02 General UNII Test Procedures New Rules v01.



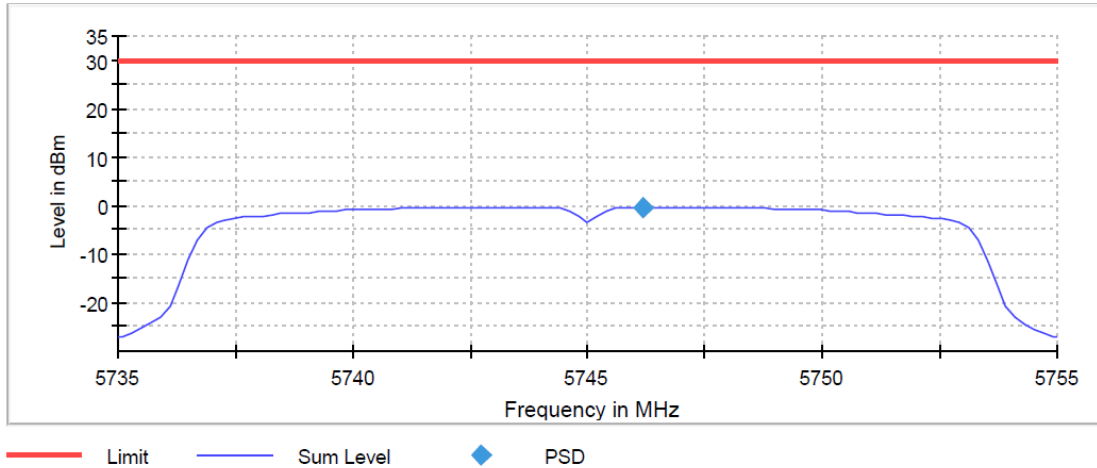
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

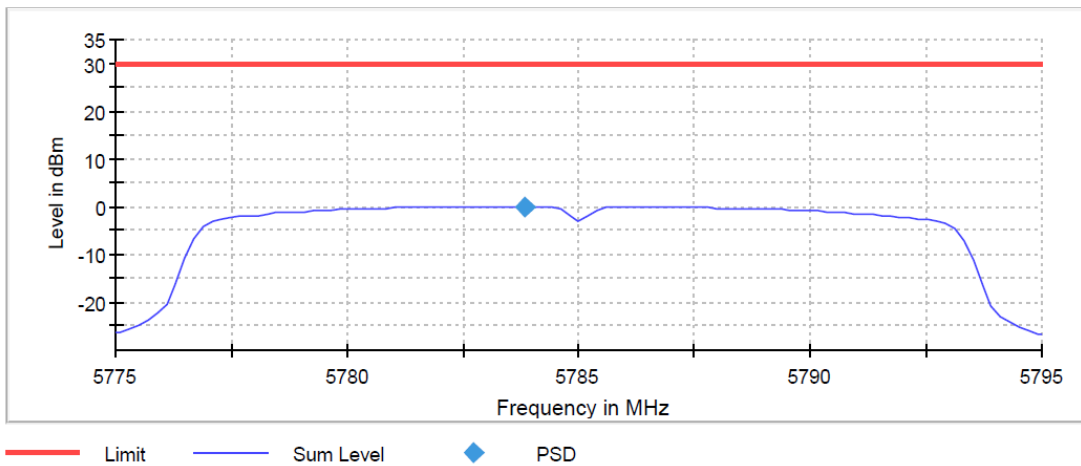
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Power spectral density (dBm)	-0.306	0.067	0.351
Measurement uncertainty (dB)	<±0.78		

TEST RESULTS (Cont.):

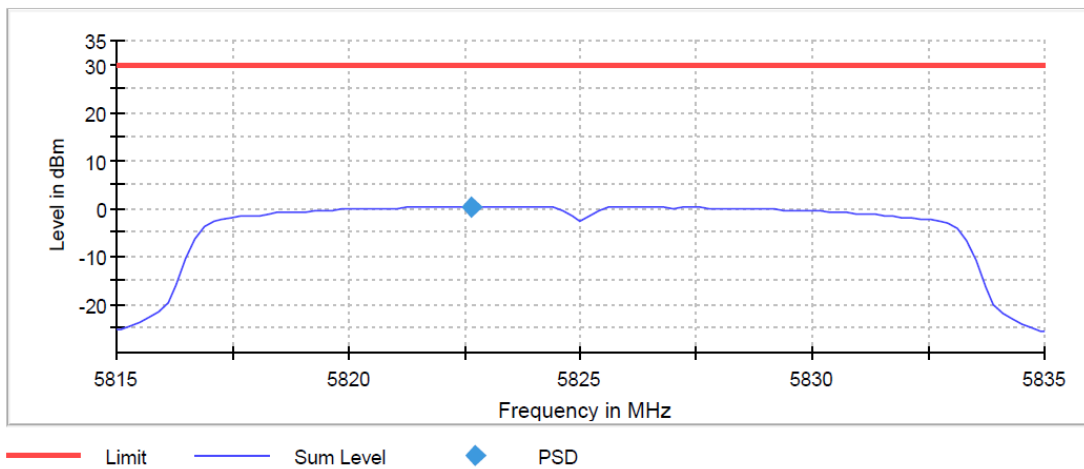
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

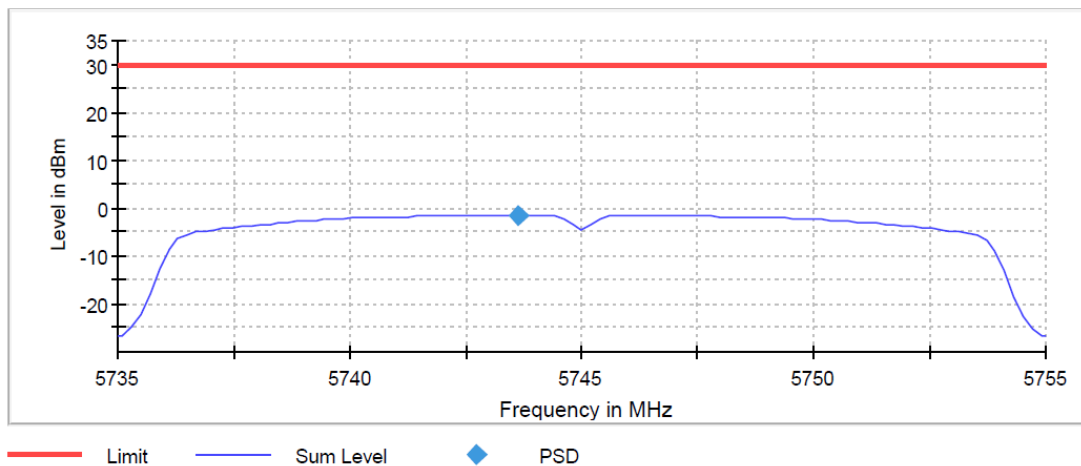
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500GHz	5.81500 GHz
Stop Frequency	5.75500 GHz	5.79500 GHz	5.83500 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	500.00 KHz	500.00 KHz	500.00 KHz
VBW	2.000 MHz	2.000 MHz	2.000 MHz
Sweep Points	101	101	101
Sweep time	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
Sweep Count	29703	29703	29703
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 15	4 / max. 15	4 / max. 15
Stable	3 / 3	3 / 3	3 / 3
Max Stable Difference	0.05 dB	0.01 dB	0.02 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

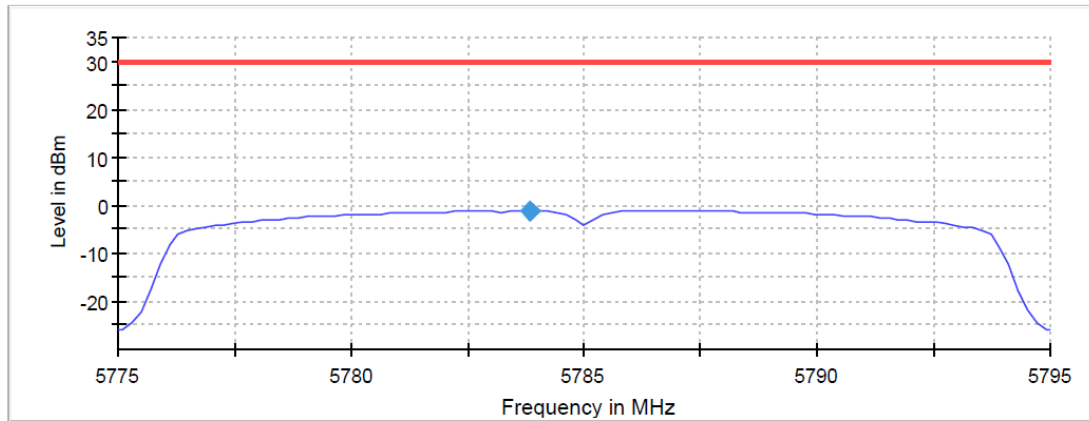
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Power spectral density (dBm)	-1.517	-1.240	-0.632
Measurement uncertainty (dB)	<±0.78		

Lowest Channel



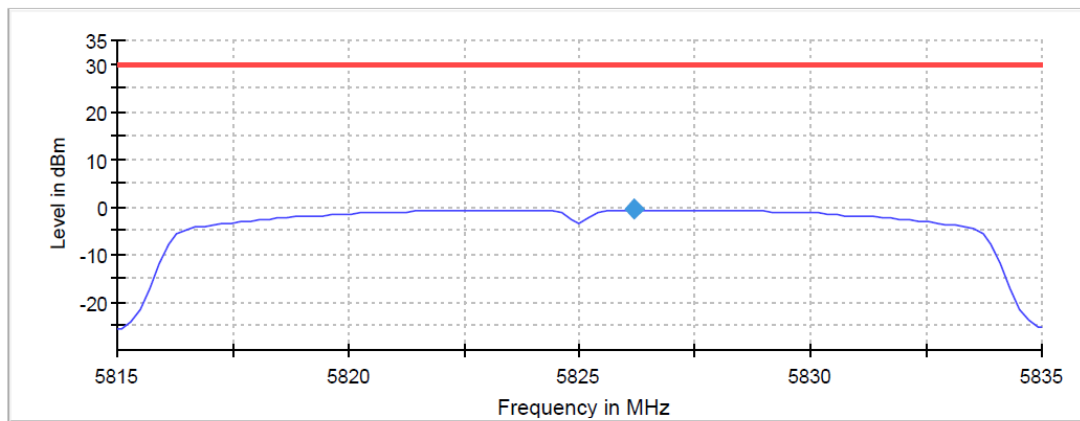
TEST RESULTS (Cont.):

Middle Channel



— Limit — Sum Level ◆ PSD

Highest Channel



— Limit — Sum Level ◆ PSD

TEST RESULTS (Cont.):

Measurement

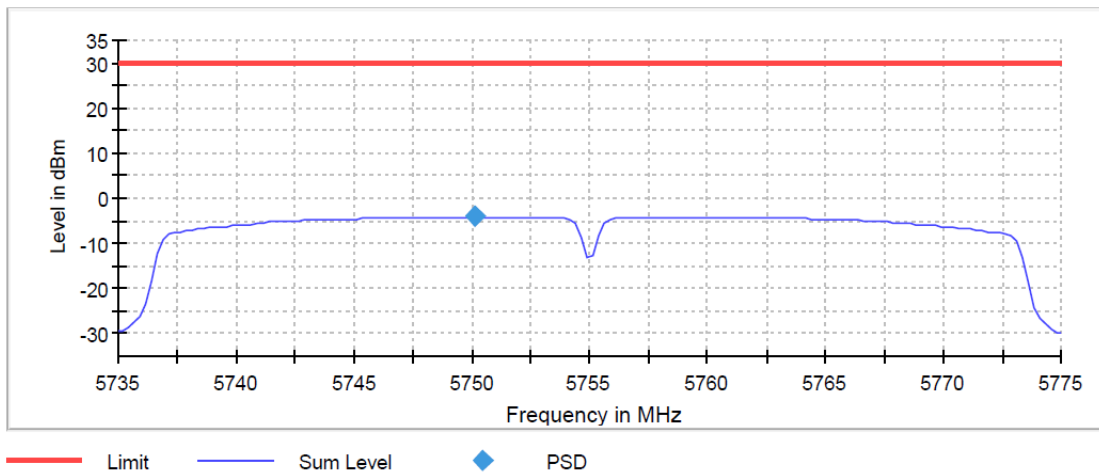
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500 GHz	5.81500 GHz
Stop Frequency	5.75500 GHz	5.79500 GHz	5.83500 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	500.00 KHz	500.00 KHz	500.00 KHz
VBW	2.000 MHz	2.000 MHz	2.000 MHz
Sweep Points	101	101	101
Sweep time	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
Sweep Count	29703	29703	29703
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	Off	Off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 15	4 / max. 15	4 / max. 15
Stable	3 / 3	3 / 3	3 / 3
Max Stable Difference	0.02 dB	0.02 dB	0.05 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

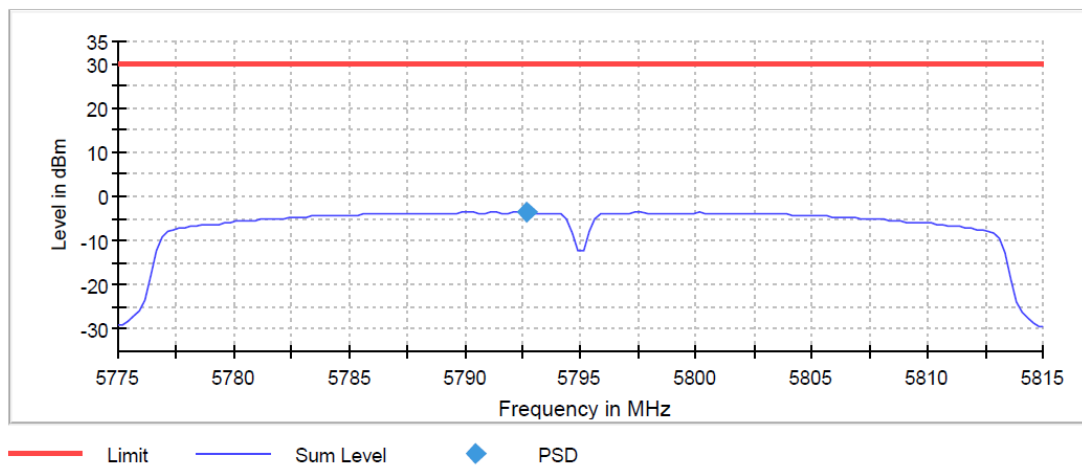
Bandwidth: 40 MHz

	Lowest frequency 5755 MHz	Highest frequency 5795 MHz
Power spectral density (dBm)	-4.150	-3.649
Measurement uncertainty (dB)	<±0.78	

Lowest Channel



Highest Channel



TEST RESULTS (Cont.):

Measurement

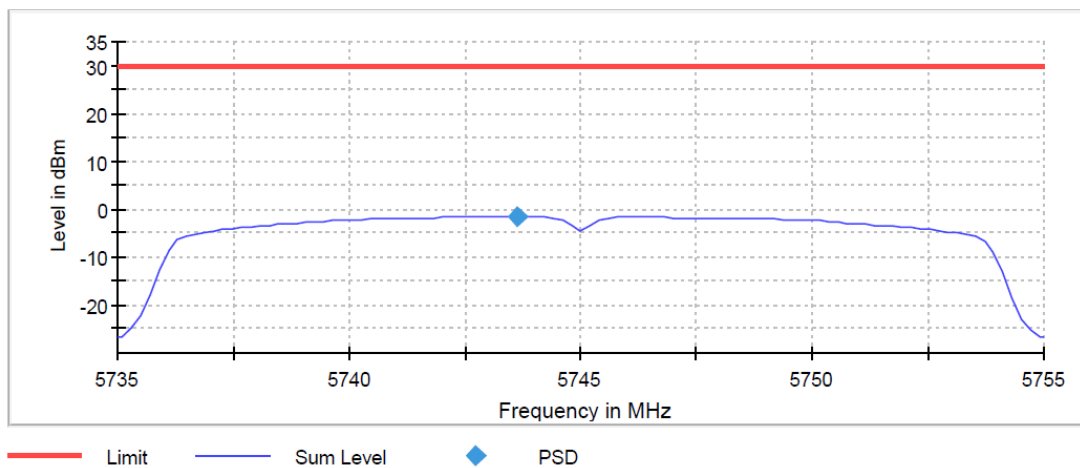
Setting	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500 GHz
Stop Frequency	5.77500 GHz	5.81500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.00 KHz	500.00 KHz
VBW	2.000 MHz	2.000 MHz
Sweep Points	160	160
Sweep time	3.200 s	3.200 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	RMS	RMS
Sweep Count	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.30 dB	0.30 dB
Run	4 / max. 15	4 / max. 15
Stable	3 / 3	3 / 3
Max Stable Difference	0.03 dB	0.06 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

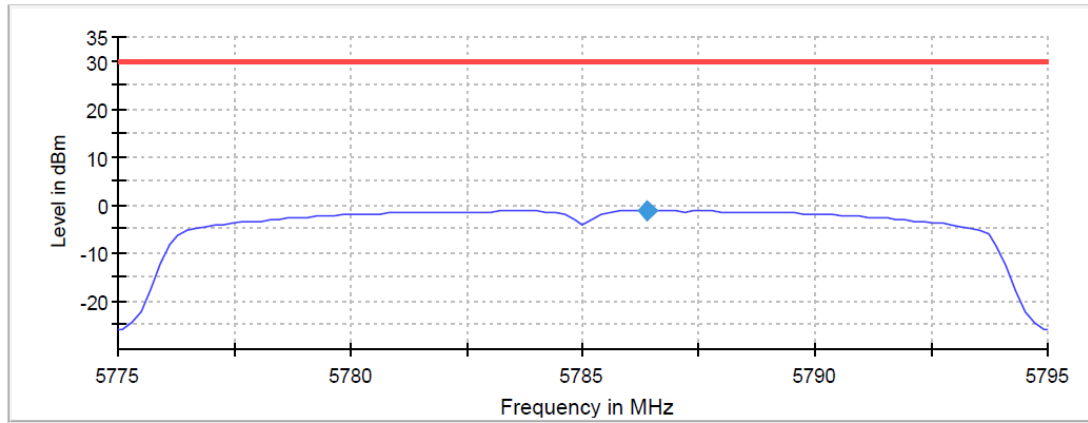
	Lowest frequency 5745 MHz	Middle frequency 5785 MHz	Highest frequency 5825 MHz
Power spectral density (dBm)	-1.575	-1.278	-0.707
Measurement uncertainty (dB)	<±0.78		

Lowest Channel



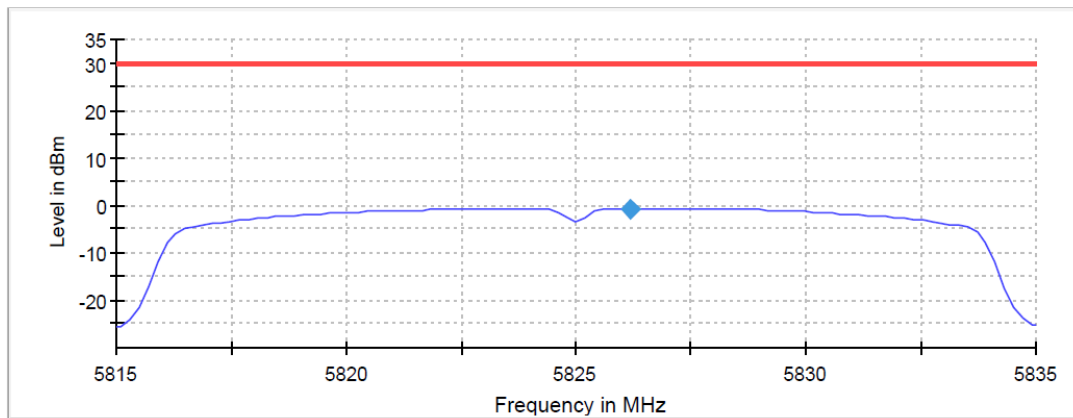
TEST RESULTS (Cont.):

Middle Channel



— Limit — Sum Level ◆ PSD

Highest Channel



— Limit — Sum Level ◆ PSD

TEST RESULTS (Cont.):

Measurement

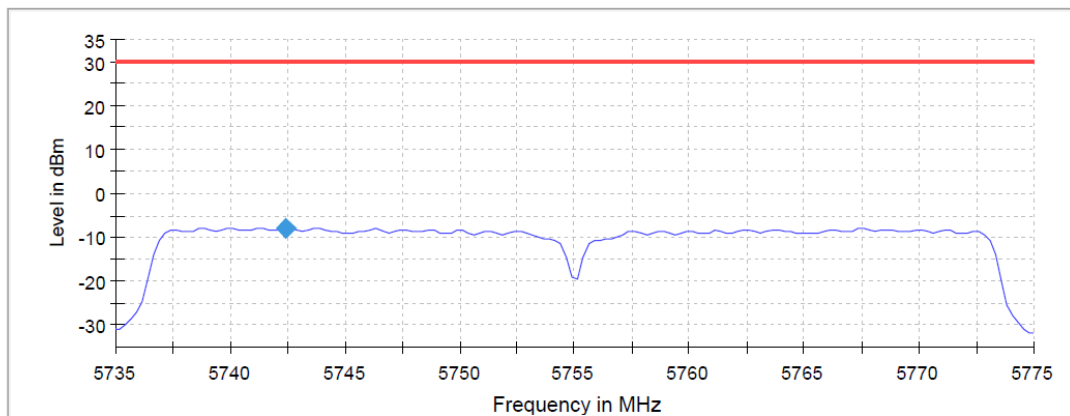
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500 GHz	5.81500 GHz
Stop Frequency	5.75500 GHz	5.79500 GHz	5.83500 GHz
Span	20.000 MHz	20.000 MHz	20.000 MHz
RBW	500.00 KHz	500.00 KHz	500.00 KHz
VBW	2.000 MHz	2.000 MHz	2.000 MHz
Sweep Points	101	101	101
Sweep time	2.020 s	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	RMS	RMS	RMS
Sweep Count	29703	29703	29703
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	FFT	FFT	FFT
Preamp	off	Off	Off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	4 / max. 15	4 / max. 15	4 / max. 15
Stable	3 / 3	3 / 3	3 / 3
Max Stable Difference	0.04 dB	0.04 dB	0.05 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

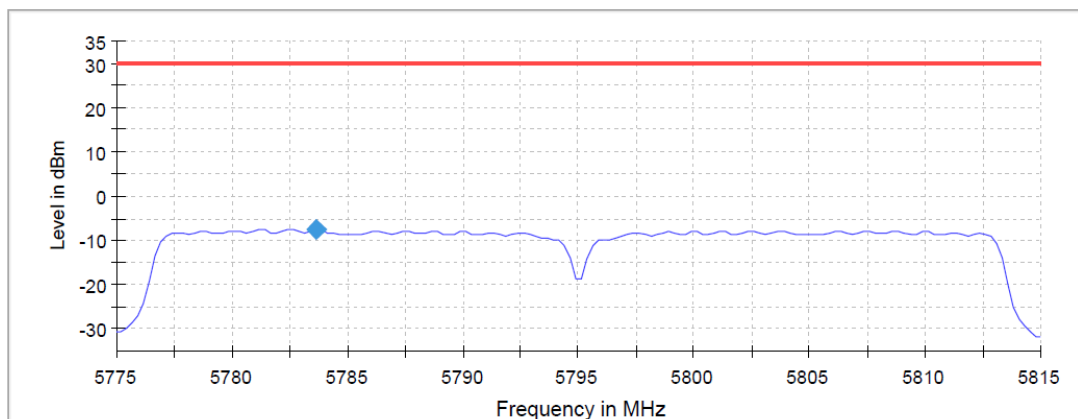
	Lowest frequency 5755 MHz	Highest frequency 5795 MHz
Power spectral density (dBm)	-7.820	-7.618
Measurement uncertainty (dB)	<±0.78	

Lowest Channel



— Limit — Sum Level ◆ PSD

Highest Channel



— Limit — Sum Level ◆ PSD

TEST RESULTS (Cont.):

Measurement

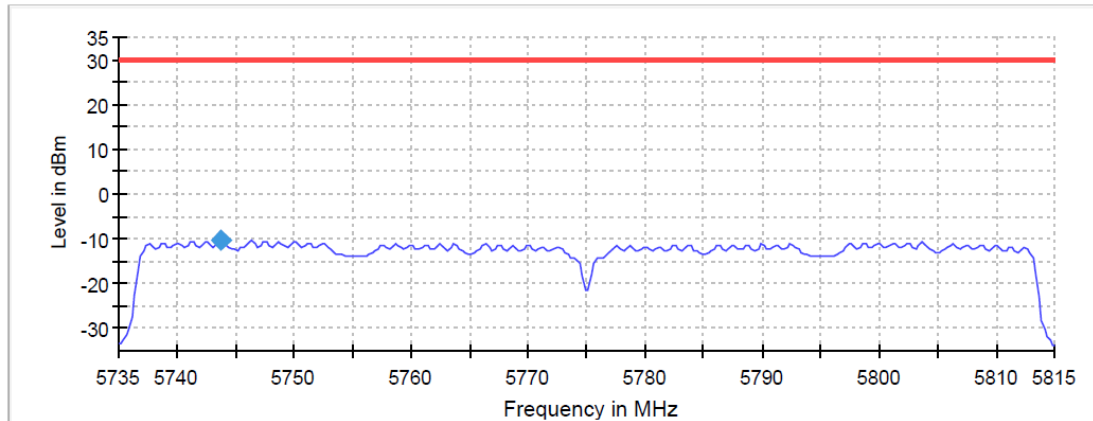
Setting	Instrument Value	Instrument Value
Start Frequency	5.73500 GHz	5.77500 GHz
Stop Frequency	5.77500 GHz	5.81500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.00 KHz	500.00 KHz
VBW	2.000 MHz	2.000 MHz
Sweep Points	160	160
Sweep time	3.200 s	3.200 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	RMS	RMS
Sweep Count	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.30 dB	0.30 dB
Run	4 / max. 15	4 / max. 15
Stable	3 / 3	3 / 3
Max Stable Difference	0.10 dB	0.30 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 80 MHz

	Middle frequency 5775 MHz
Power spectral density (dBm)	-10.468
Measurement uncertainty (dB)	<±0.78

Middle Channel



— Limit — Sum Level ◆ PSD

Measurement

Setting	Instrument Value
Start Frequency	5.73500 GHz
Stop Frequency	5.81500 GHz
Span	80.000 MHz
RBW	500.00 KHz
VBW	2.000 MHz
Sweep Points	320
Sweep time	6.400 s
Reference Level	10.000 dBm
Attenuation	30.000 dB
Detector	RMS
Sweep Count	3
Filter	3 dB
Trace Mode	Max Hold
Sweep type	FFT
Preamp	off
Stable mode	Trace
Stable value	0.30 dB
Run	4 / max. 15
Stable	3 / 3
Max Stable Difference	0.12 dB

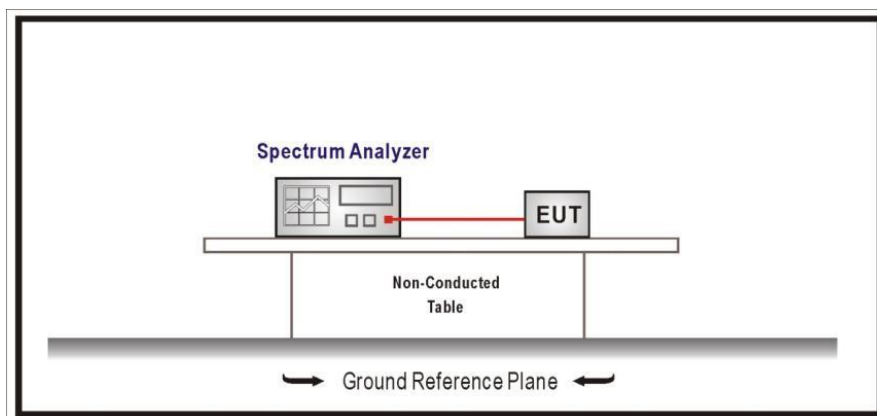
SECTION B.5: BAND-EDGE EMISSIONS COMPLIANCE (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart E §15.407 and RSS-247
	Test standard:	Part 15 Subpart E §15.407(b)(4) and RSS-247 6.2.4.2

LIMITS: For transmitters operating in the 5.725 – 5.850 GHz band:

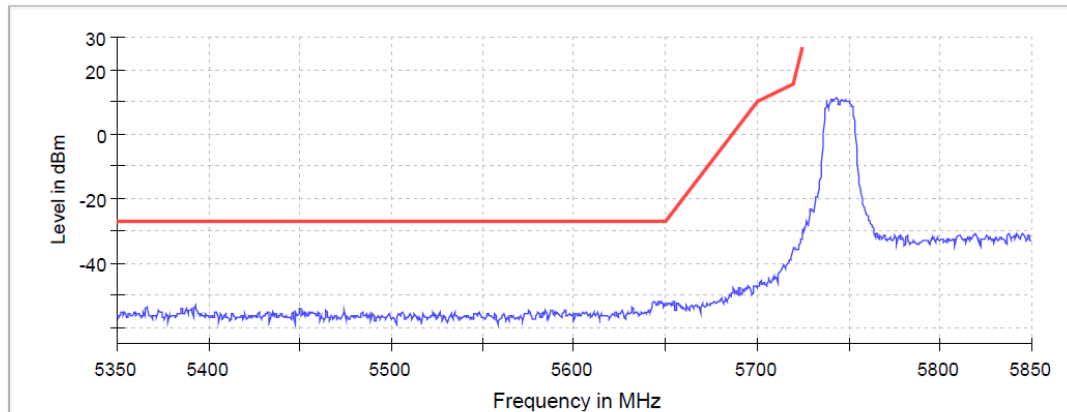
All emissions shall be limited to a level of -27 dB/m at 3m distance at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 25 dBm/MHz at the band edge.

TEST SETUP



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Low Channel

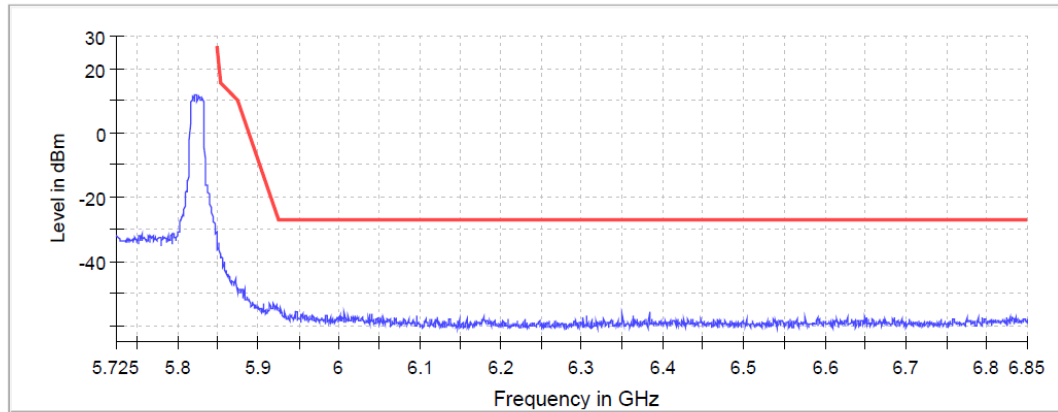


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	750
Sweep time	25.000 ms	75.000 ms
Reference Level	10.000 dBm	-20.000 dBm
Attenuation	30.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	12 / max. 150	7 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.39 dB	0.00 dB

TEST RESULTS (Cont.):

High Channel



— Limit — Sum Level × Fail

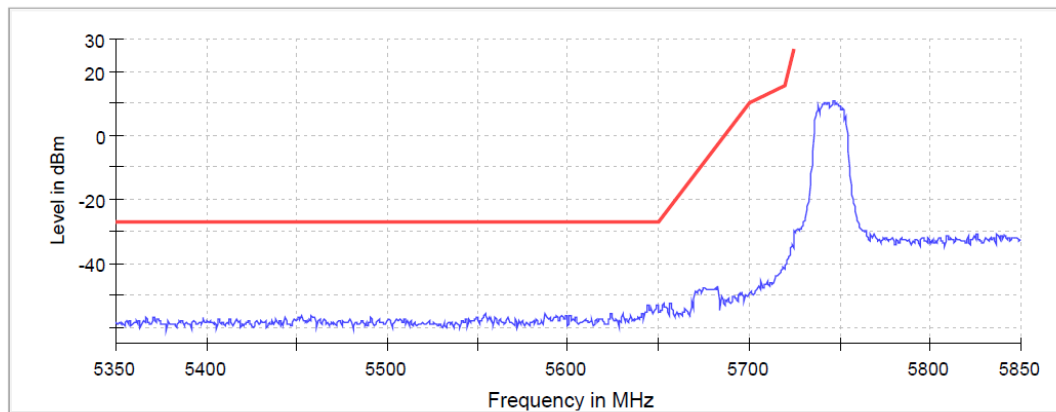
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1.000 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	2000
Sweep time	25.000 ms	200.000 ms
Reference Level	0.000 dBm	-20.000 dBm
Attenuation	20.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	8 / max. 150	15 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.10 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel

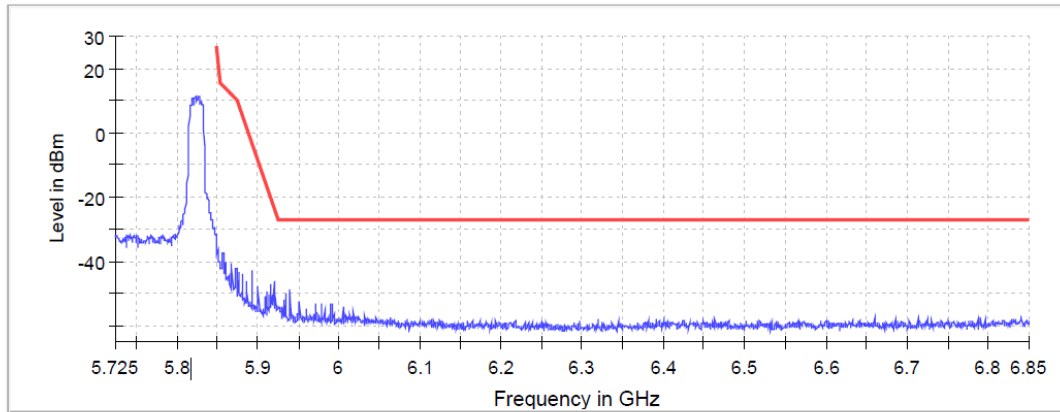


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	750
Sweep time	25.000 ms	75.000 ms
Reference Level	10.000 dBm	-20.000 dBm
Attenuation	30.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	16 / max. 150	7 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.00 dB

TEST SETUP (CONT.)

High Channel



— Limit — Sum Level × Fail

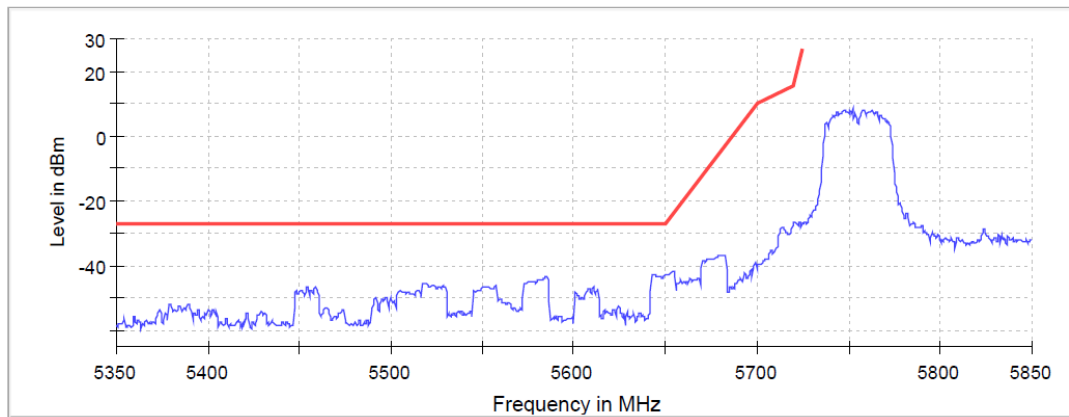
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1.000 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	2000
Sweep time	25.000 ms	200.000 ms
Reference Level	0.000 dBm	-20.000 dBm
Attenuation	20.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	11 / max. 150	19 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.35 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

Low Channel

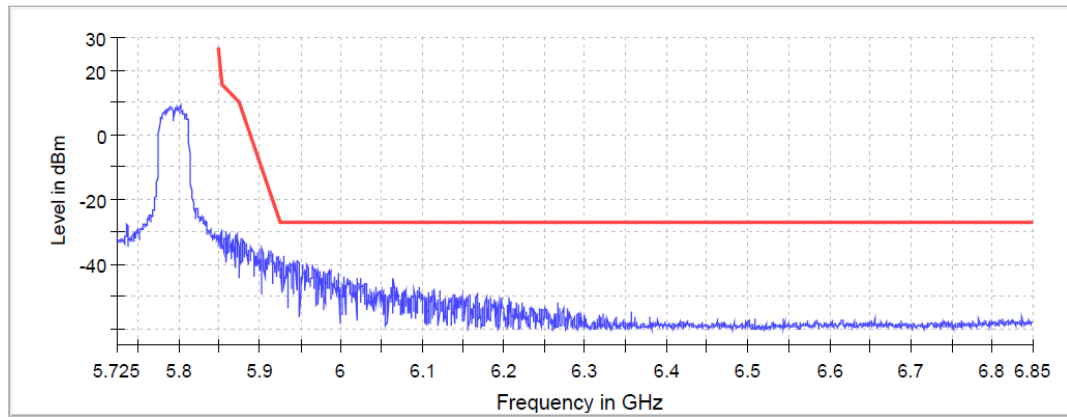


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	750
Sweep time	25.000 ms	75.000 ms
Reference Level	10.000 dBm	-20.000 dBm
Attenuation	30.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	23 / max. 150	22 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.27 dB	0.00 dB

TEST RESULTS (Cont.):

High Channel



— Limit — Sum Level × Fail

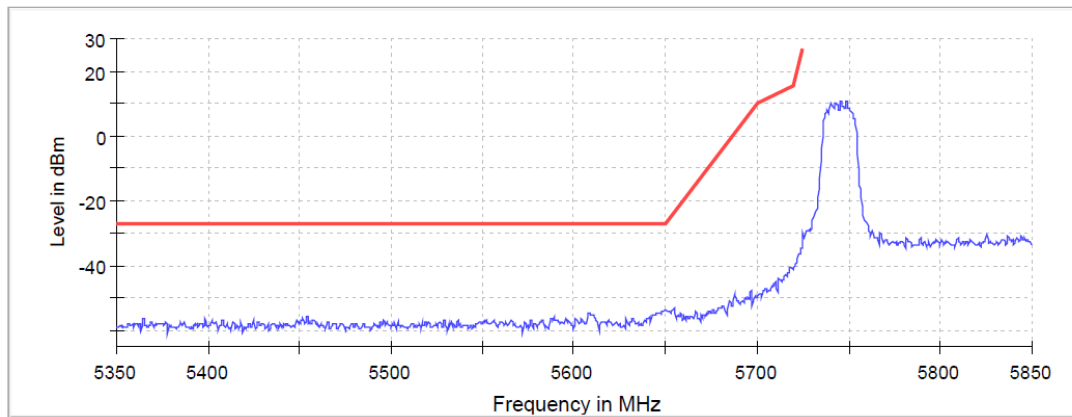
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1.000 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	2000
Sweep time	25.000 ms	200.000 ms
Reference Level	0.000 dBm	-20.000 dBm
Attenuation	20.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	8 / max. 150	15 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.10 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Lowest Channel

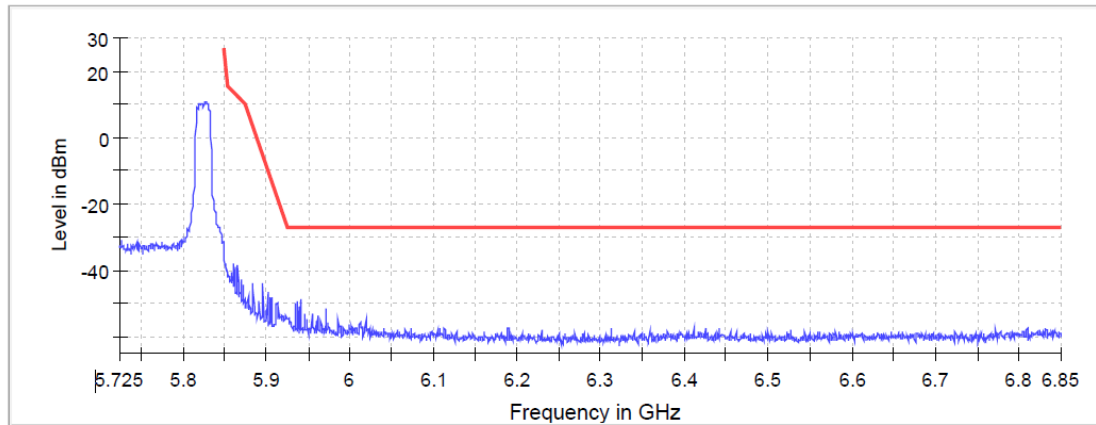


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	750
Sweep time	25.000 ms	75.000 ms
Reference Level	10.000 dBm	-20.000 dBm
Attenuation	30.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	16 / max. 150	7 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.00 dB

TEST SETUP (CONT.)

High Channel



— Limit — Sum Level × Fail

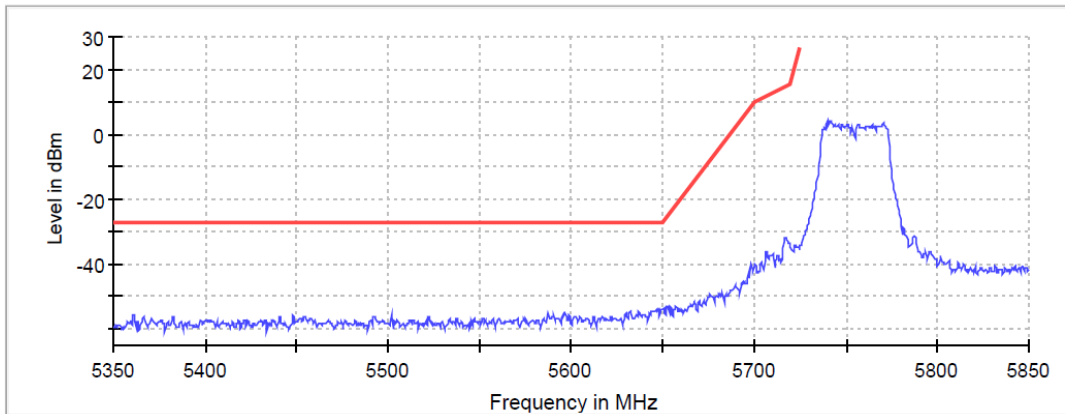
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1.000 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	2000
Sweep time	25.000 ms	200.000 ms
Reference Level	0.000 dBm	-20.000 dBm
Attenuation	20.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	11 / max. 150	19 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.33 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

Low Channel

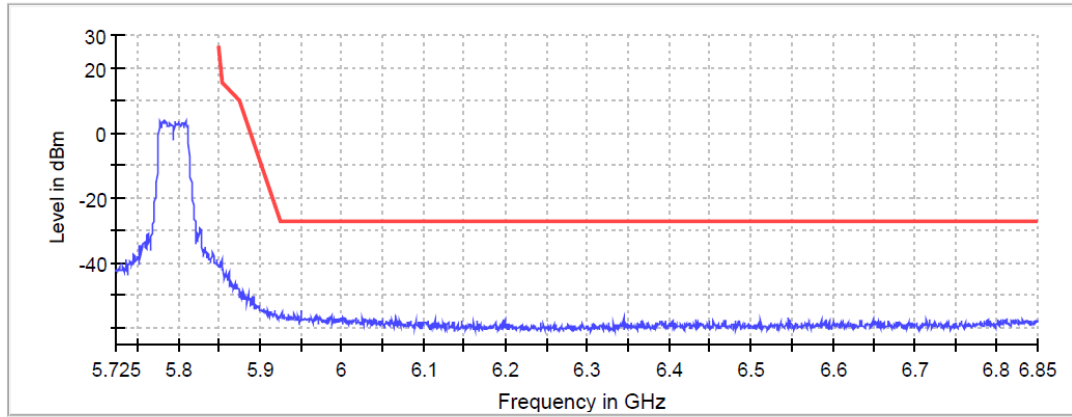


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	750
Sweep time	25.000 ms	75.000 ms
Reference Level	10.000 dBm	-20.000 dBm
Attenuation	30.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	12 / max. 150	7 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.24 dB	0.26 dB

TEST RESULTS (Cont.):

High Channel



— Limit — Sum Level × Fail

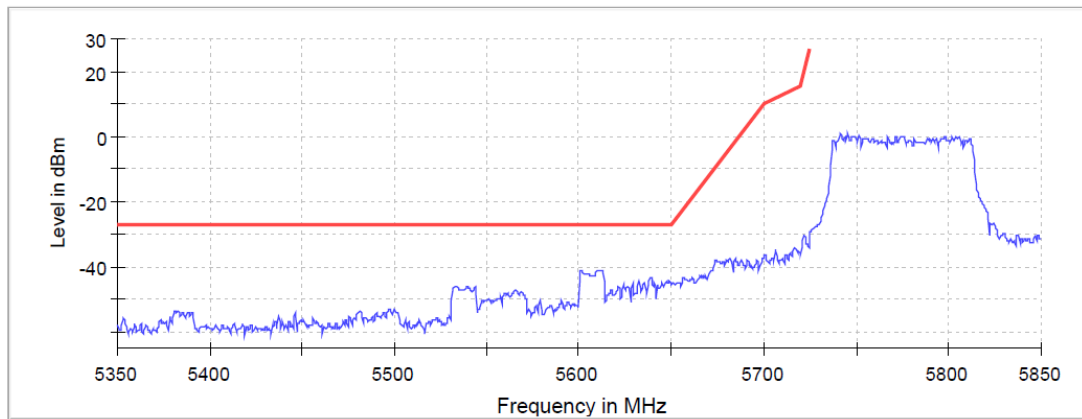
Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1.000 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	2000
Sweep time	25.000 ms	200.000 ms
Reference Level	0.000 dBm	-20.000 dBm
Attenuation	20.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	8 / max. 150	15 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.27 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 80 MHz

Lowest Channel

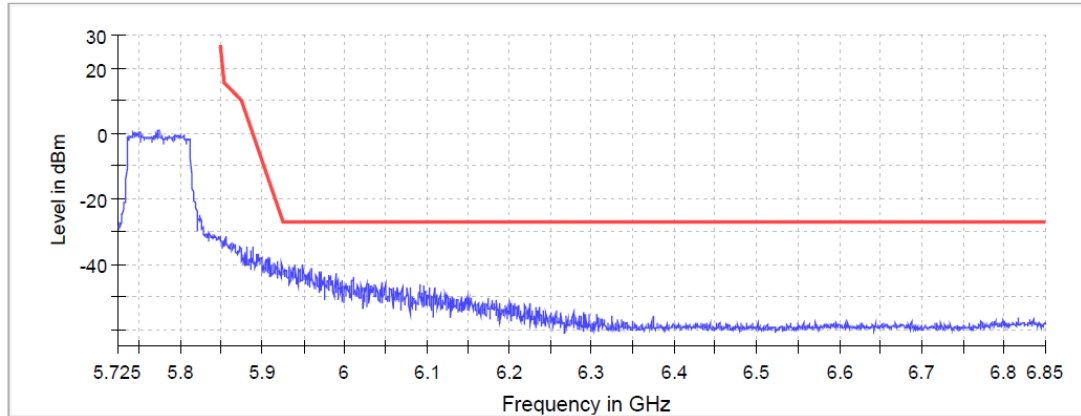


Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.35000 GHz
Stop Frequency	5.85000 GHz	5.72500 GHz
Span	125.000 MHz	375.000 MHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	750
Sweep time	25.000 ms	75.000 ms
Reference Level	10.000 dBm	-20.000 dBm
Attenuation	30.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	16 / max. 150	7 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.17 dB	0.00 dB

TEST SETUP (CONT.)

High Channel



Measurement

Setting	Instrument Value	Instrument Value
Start Frequency	5.72500 GHz	5.85000 GHz
Stop Frequency	5.85000 GHz	6.85000 GHz
Span	125.000 MHz	1.000 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	250	2000
Sweep time	25.000 ms	200.000 ms
Reference Level	0.000 dBm	-20.000 dBm
Attenuation	20.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweep type	Sweep	Sweep
Preamp	off	Off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	43 / max. 150	27 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.17 dB	0.01 dB

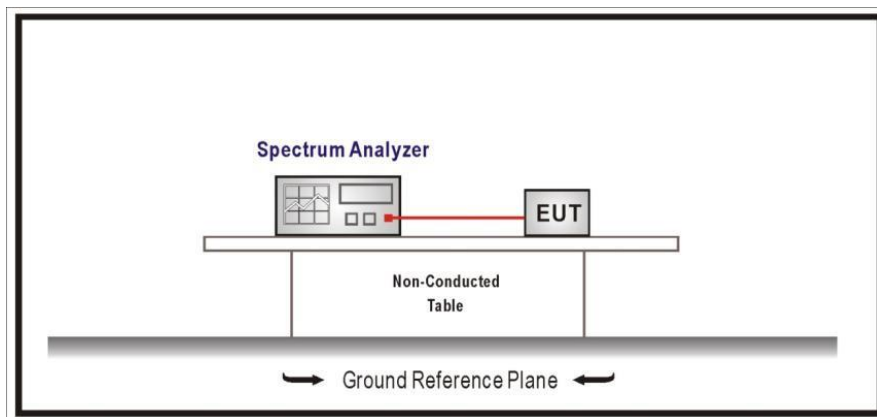
SECTION B.6: EMISSION LIMITATIONS CONDUCTED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart E §15.407, 15.207 and RSS-Gen
	Test standard:	Part 15 Subpart E §15.407(b)(6), 15.207 and RSS-Gen 8.8

LIMITS

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 db.

TEST SETUP

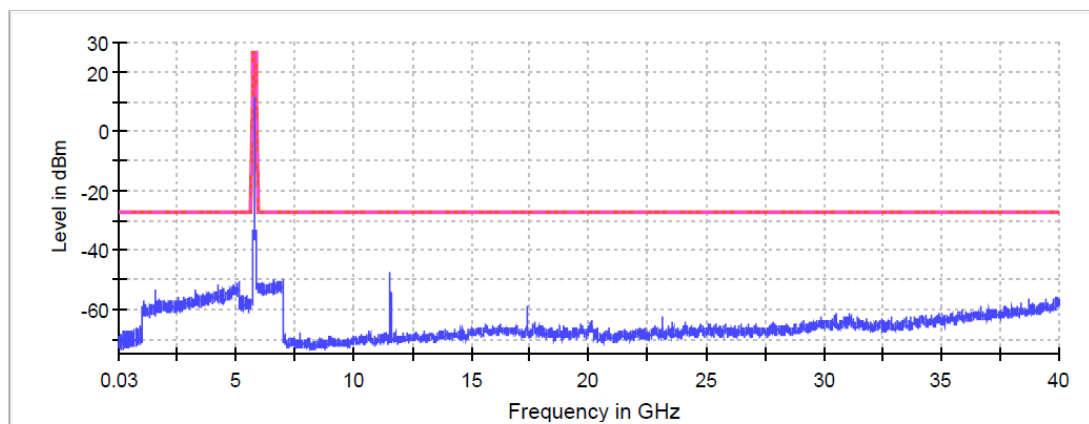


TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (a mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Frequency: 5785 MHz

No spurious signal was detected at 20dB below the limit or above for the channel.



— Limit - - - - Threshold × Critical — Sum Level × Final Critical

Measurement Settings

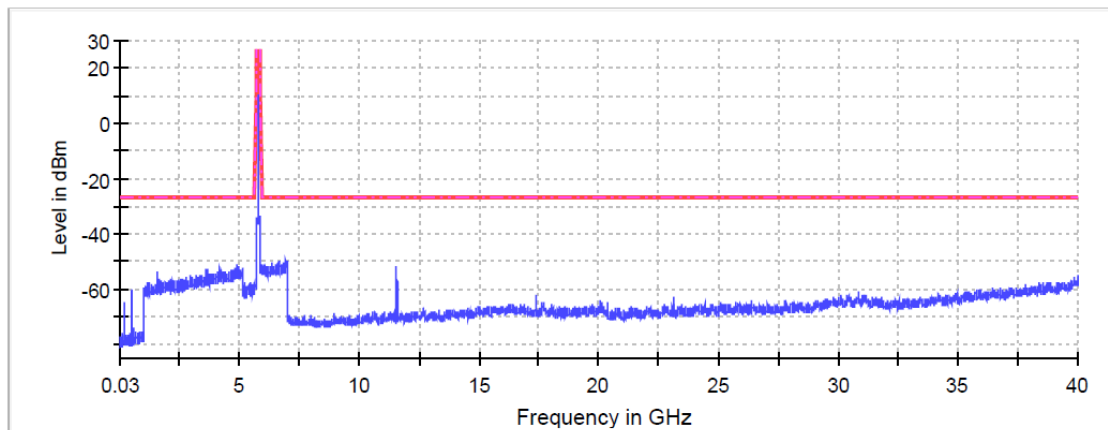
Setting	Instrument Value	Instrument Value
Start Frequency	30.000 MHz	30.000 MHz
Stop Frequency	40 GHz	40 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	970	4150
Sweep time	194 ms	4.150 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	3	30
Filter	Channel	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	sweep	Sweep
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	31 / max. 150	24 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.23 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Frequency: 5785 MHz

No spurious signal was detected at 20dB below the limit or above for the channel.



— Limit - - - - Threshold × Critical — Sum Level × Final Critical

Measurement Settings

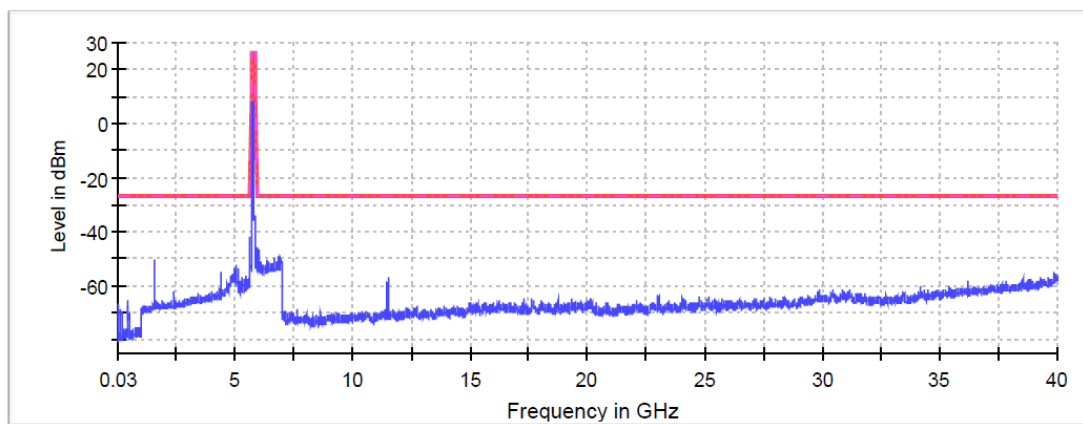
Setting	Instrument Value	Instrument Value
Start Frequency	30.000 MHz	30.000 MHz
Stop Frequency	40 GHz	40 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	970	4150
Sweep time	194 ms	4.150 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	3	30
Filter	Channel	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	sweep	Sweep
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	67 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.49 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (n mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

Frequency: 5755 MHz

No spurious signal was detected at 20dB below the limit or above for the channel.



— Limit - - - - Threshold × Critical — Sum Level × Final Critical

Measurement Settings

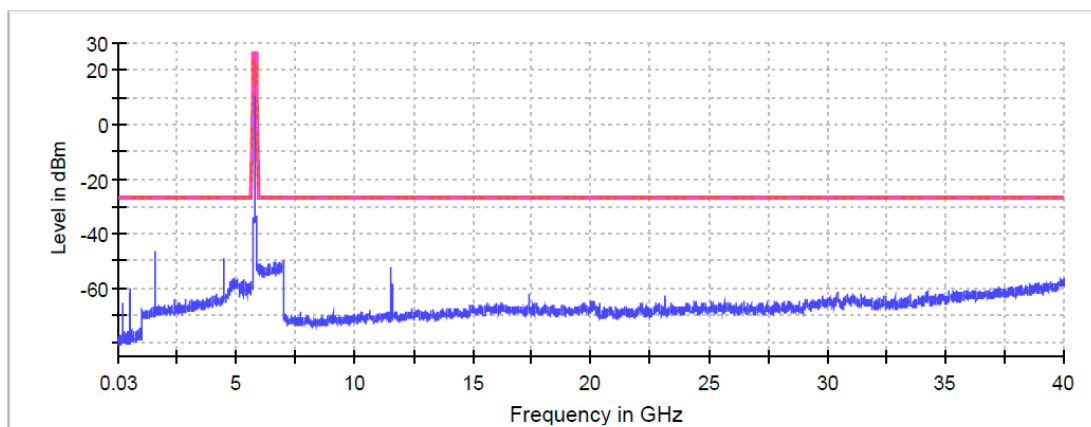
Setting	Instrument Value	Instrument Value
Start Frequency	30.000 MHz	30.000 MHz
Stop Frequency	40 GHz	40 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	970	4150
Sweep time	194 ms	4.150 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	3	30
Filter	Channel	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	sweep	Sweep
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	24 / max. 150	44 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 20 MHz

Frequency: 5785 MHz

No spurious signal was detected at 20dB below the limit or above for the channel.



— Limit - - - Threshold × Critical — Sum Level × Final Critical

Measurement Settings

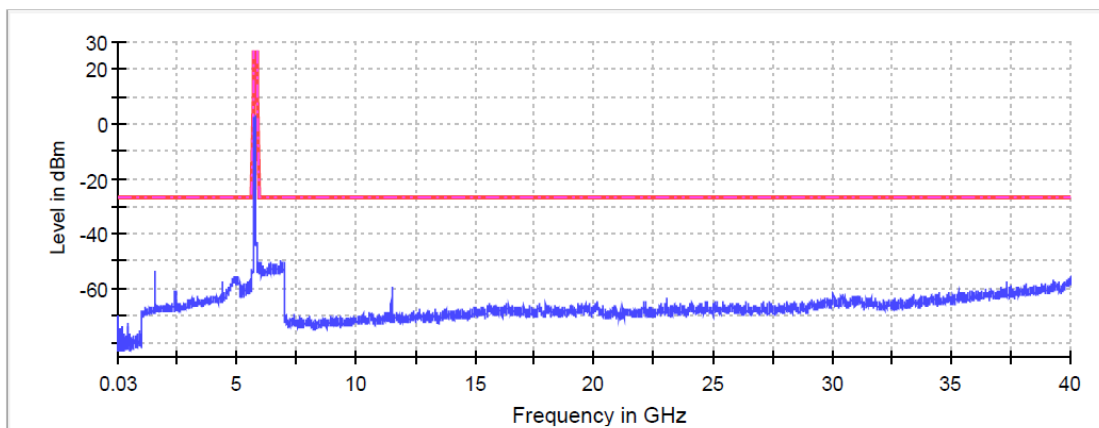
Setting	Instrument Value	Instrument Value
Start Frequency	30.000 MHz	30.000 MHz
Stop Frequency	40 GHz	40 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	970	4150
Sweep time	194 ms	4.150 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	3	30
Filter	Channel	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	sweep	Sweep
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	75 / max. 150	16 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 40 MHz

Frequency: 5755 MHz

No spurious signal was detected at 20dB below the limit or above for the channel.



— Limit - - - - - Threshold × Critical — Sum Level × Final Critical

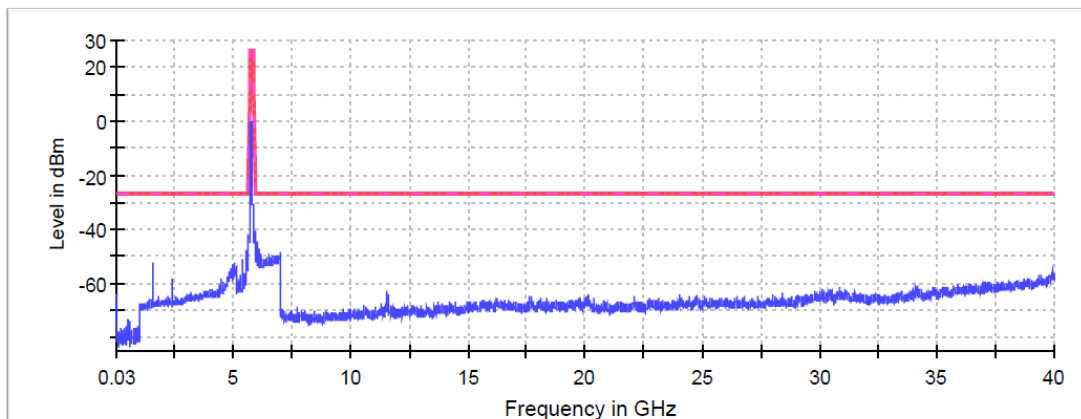
Measurement Settings

Setting	Instrument Value	Instrument Value
Start Frequency	30.000 MHz	30.000 MHz
Stop Frequency	40 GHz	40 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	970	4150
Sweep time	194 ms	4.150 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	3	30
Filter	Channel	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	sweep	Sweep
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	24 / max. 150	44 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.27 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (ac mode)
TEST RESULTS:	PASS

Bandwidth: 80 MHz
Frequency: 5775 MHz

No spurious signal was detected at 20dB below the limit or above for the channel.



Measurement Settings

Setting	Instrument Value	Instrument Value
Start Frequency	30.000 MHz	30.000 MHz
Stop Frequency	40 GHz	40 GHz
RBW	1.000 MHz	1.000 MHz
VBW	3.000 MHz	3.000 MHz
Sweep Points	970	4150
Sweep time	194 ms	4.150 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	3	30
Filter	Channel	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	sweep	Sweep
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	24 / max. 150	44 / max. 150
Stable	3 / 3	3 / 3
Max Stable Difference	0.00 dB	0.58 dB

SECTION B.7: UNDESIRABLE RADIATED EMISSIONS (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart E §15.407 and RSS-247
	Test standard:	Part 15 Subpart E §15.407(b) (4)(6)(7) and RSS-247 6.2.4.2

LIMITS

For transmitters operating in the 5.725 – 5.850 GHz band: all emissions outside of the 5.725 – 5.850GHz band shall not exceed an EIRP of -27 dBm/MHz (68.23 dBµ V/m at 3m distance).

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

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dB/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	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

TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bi-log antenna) and at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

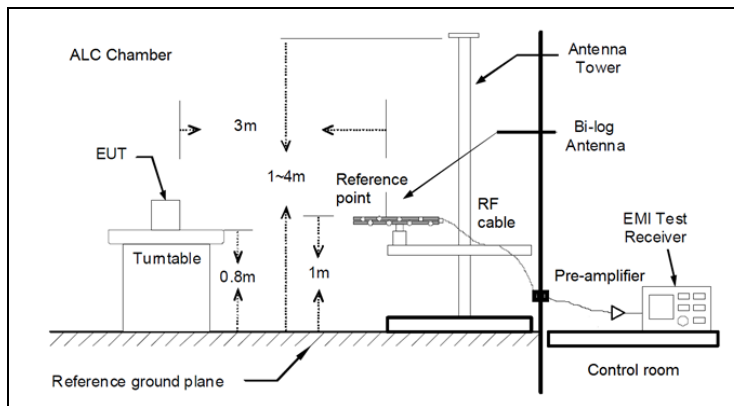
For radiated emissions in the range 1-40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and 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.

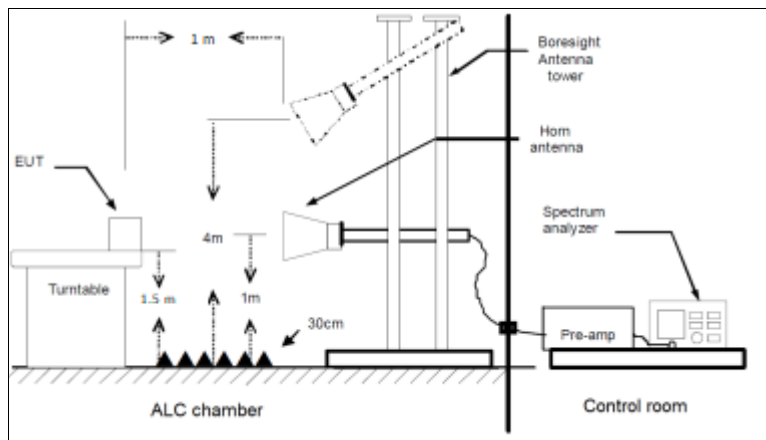
Measurements were made in both horizontal and vertical planes of polarization.

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.

Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01 (a mode 20 MHz)
TEST RESULTS:	PASS

Frequency range 30 MHz – 1000 MHz

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

Frequency range 1 GHz – 40 GHz

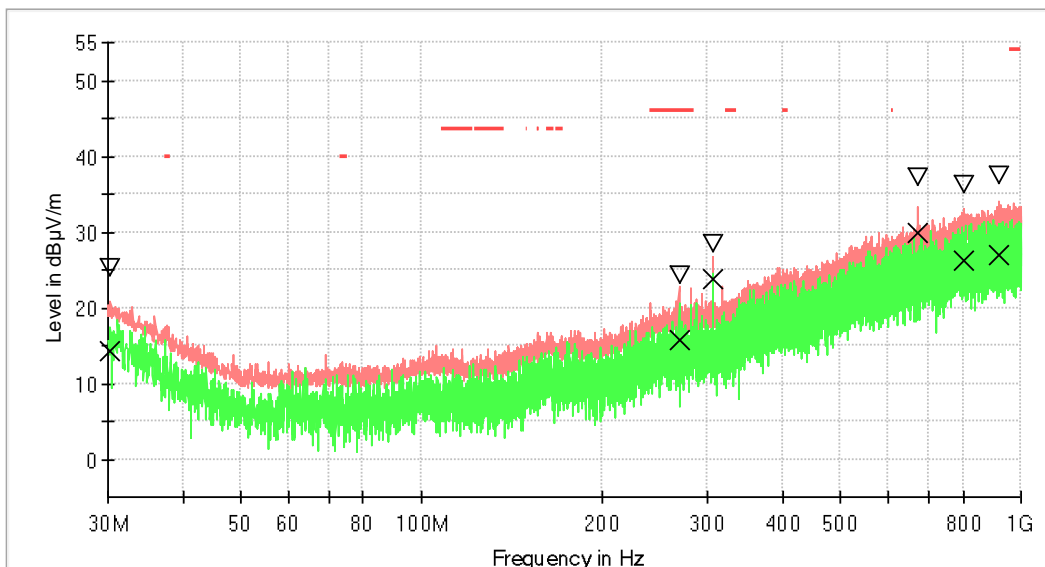
The results and plots below show the maximum measured levels in the 1- 40 GHz range.

For 18 GHz – 40 GHz frequency range the radiated spurious signals detected were 20 dB below the reference limit or lower for low, middle and high channels.

FREQUENCY RANGE 30 – 1000 MHz

Middle Channel

RF_FCC_15.407_E Field_30MHz_1GHz



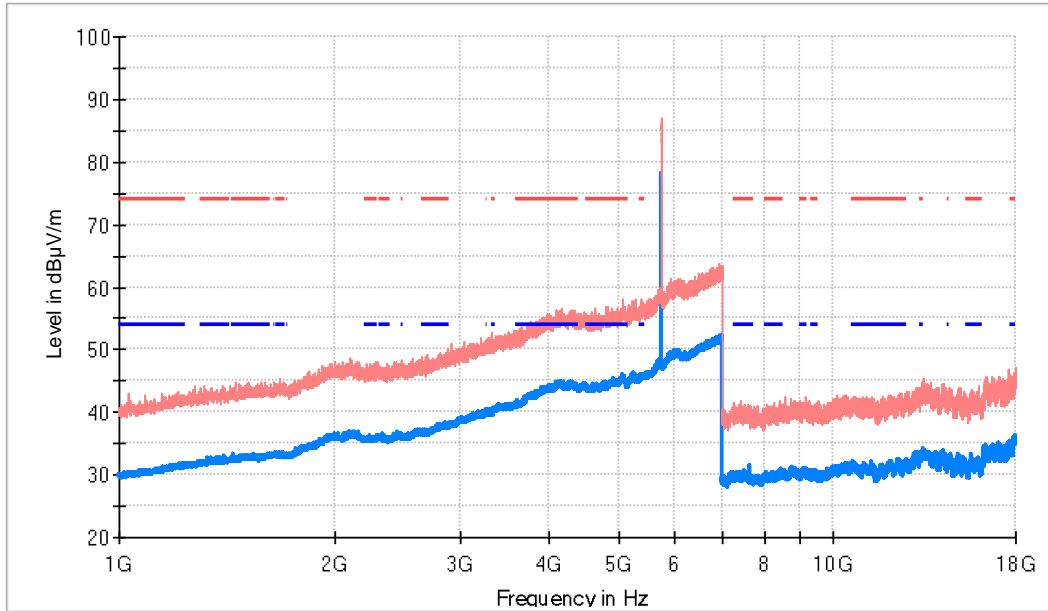
- PK+ MAXH
- PK+ CLRWR
- TX limits to Spurious Emission FCC15.407 (30MHz to 1GHz) Restricted Bands QPK Limit
- ▽ MaxPeak-PK+ (Single)
- x QuasiPeak-QPK (Single)

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol
30.291000	25.3	14.3	H
307.177500	28.4	23.8	H
804.836000	36.3	26.1	V
671.994500	37.2	29.9	V
919.393000	37.4	27.0	V
268.765500	24.3	15.8	V

TEST RESULTS (Cont.)

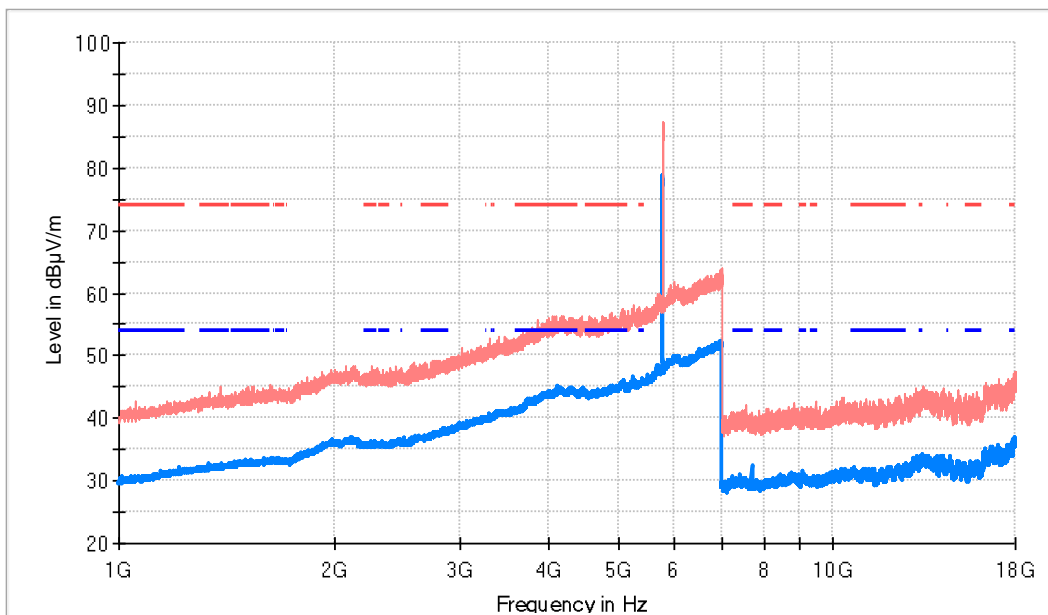
FREQUENCY RANGE 1 GHz – 18 GHz

Lowest Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Middle Channel

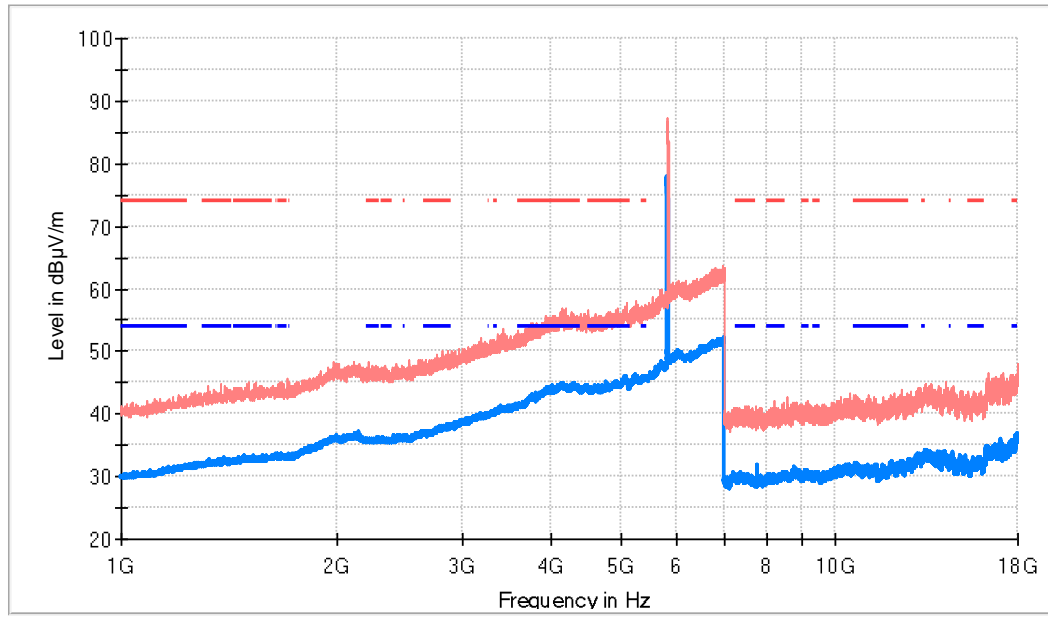


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Highest Channel

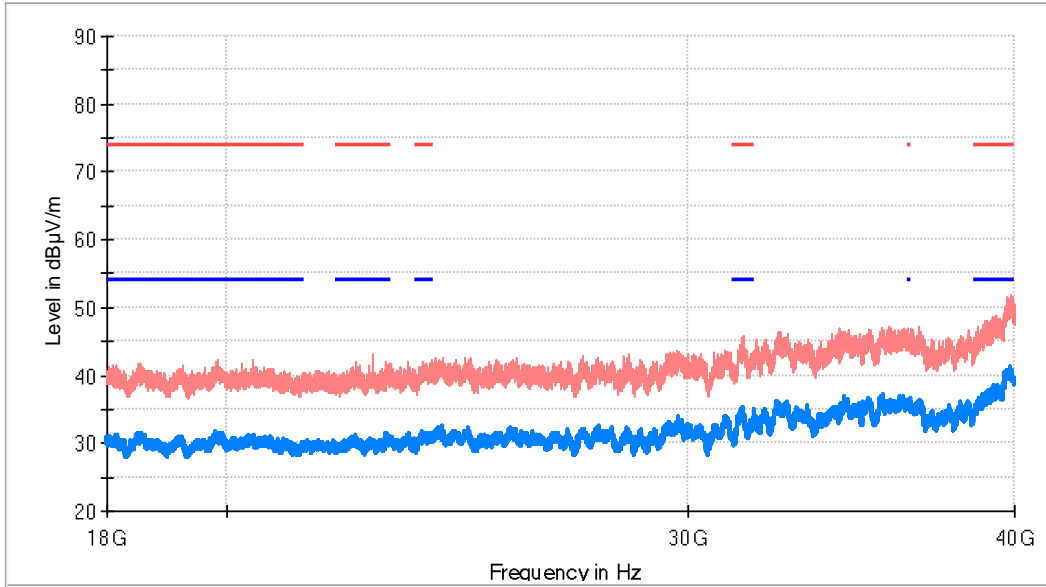


- AVG_MAXH
- PK+_MAXH
- - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)	FREQUENCY RANGE 18 – 40 GHz
-----------------------------	------------------------------------

Lowest Channel

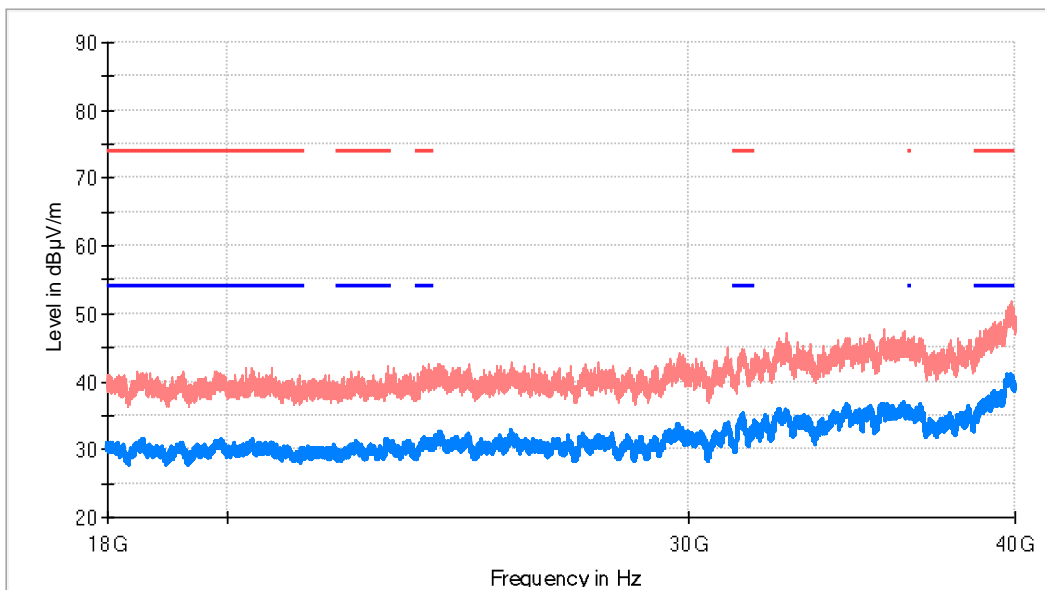
RF_FCC_15.407_E Field_18GHz_40GHz



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Middle Channel

RF_FCC_15.407_E Field_18GHz_40GHz

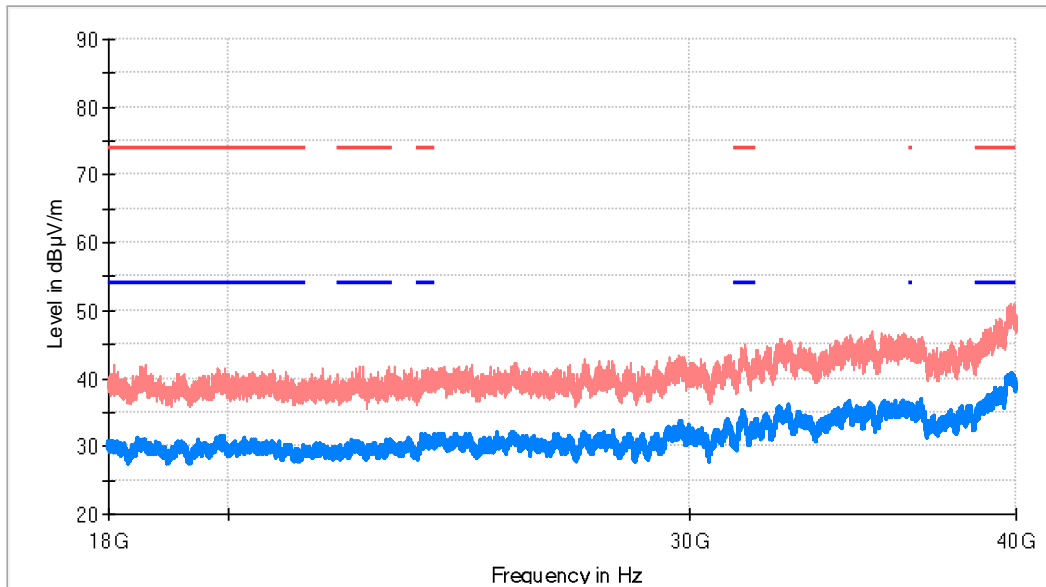


- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)	FREQUENCY RANGE 18 – 40 GHz
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Highest Channel

RF_FCC_15.407_E Field_18GHz_40GHz



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 (n mode 20 MHz)
TEST RESULTS:	PASS

Frequency range 1 GHz – 40 GHz

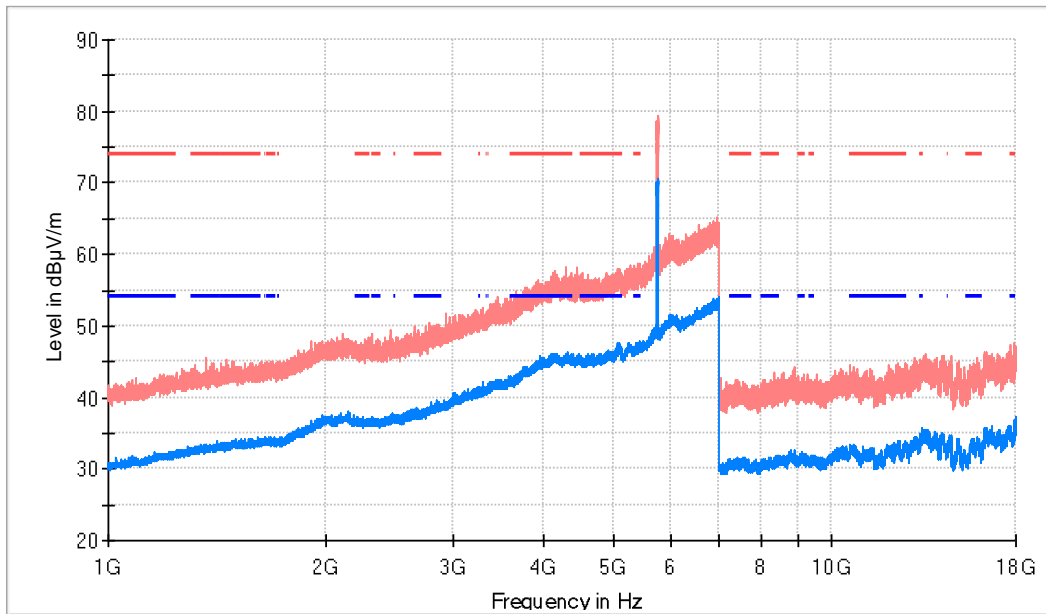
The results and plots below show the maximum measured levels in the 1- 40 GHz range.

For 18 GHz – 40 GHz frequency range the radiated spurious signals detected were 20 dB below the reference limit or lower for low, middle and high channels.

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Lowest Channel



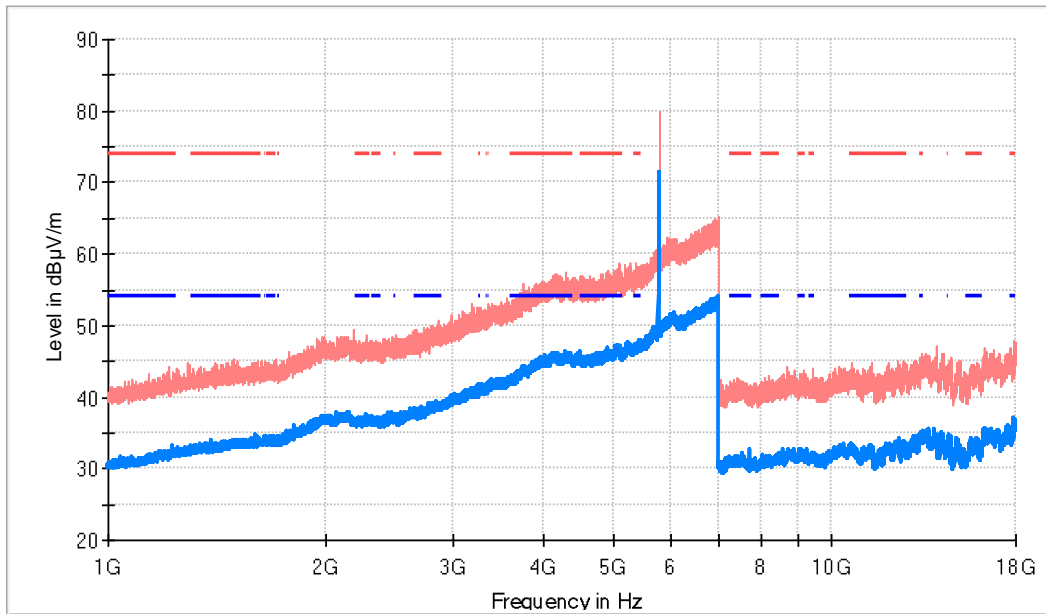
- PK+ _MAXH
- AVG _MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+ _MAXH (dBµV/m)	AVG _MAXH (dBµV/m)	Pol	Comment
5744.909091	79.3	69.2	V	Fundamental

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Middle Channel



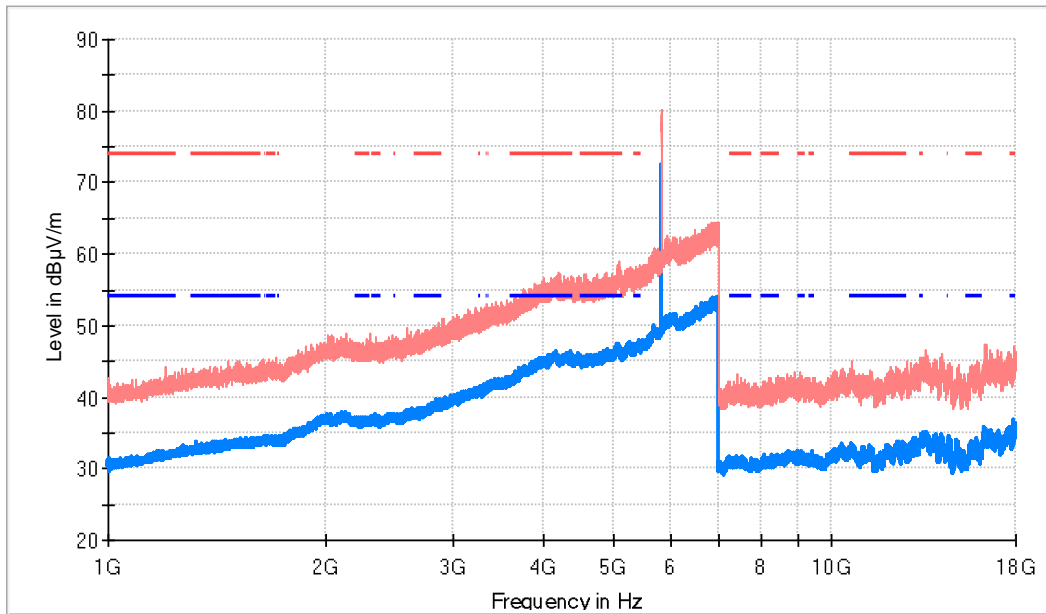
- PK+_MAXH
- AVG_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5783.636364	80.0	71.3	V	Fundamental

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Highest Channel



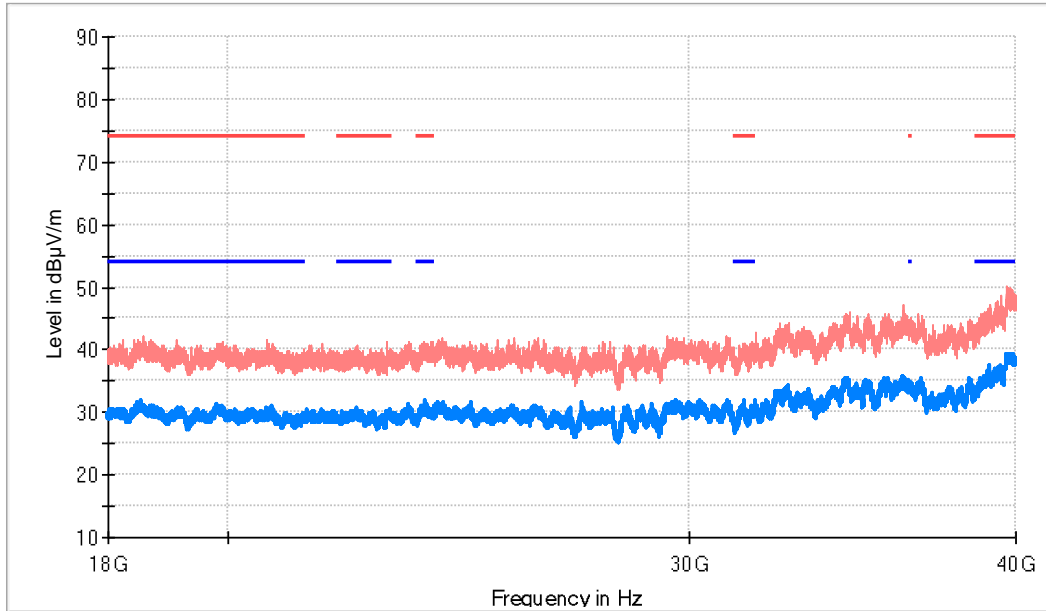
- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5826.727273	80.2	71.0	V	Fundamental

TEST RESULTS (Cont.)

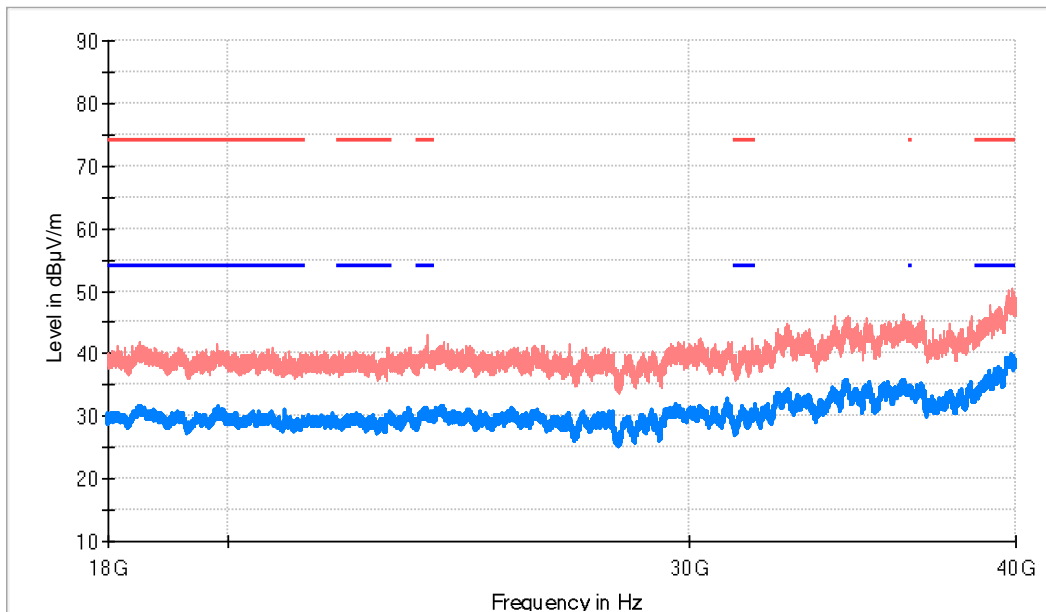
FREQUENCY RANGE 18 – 40 GHz

Lowest Channel



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Middle Channel

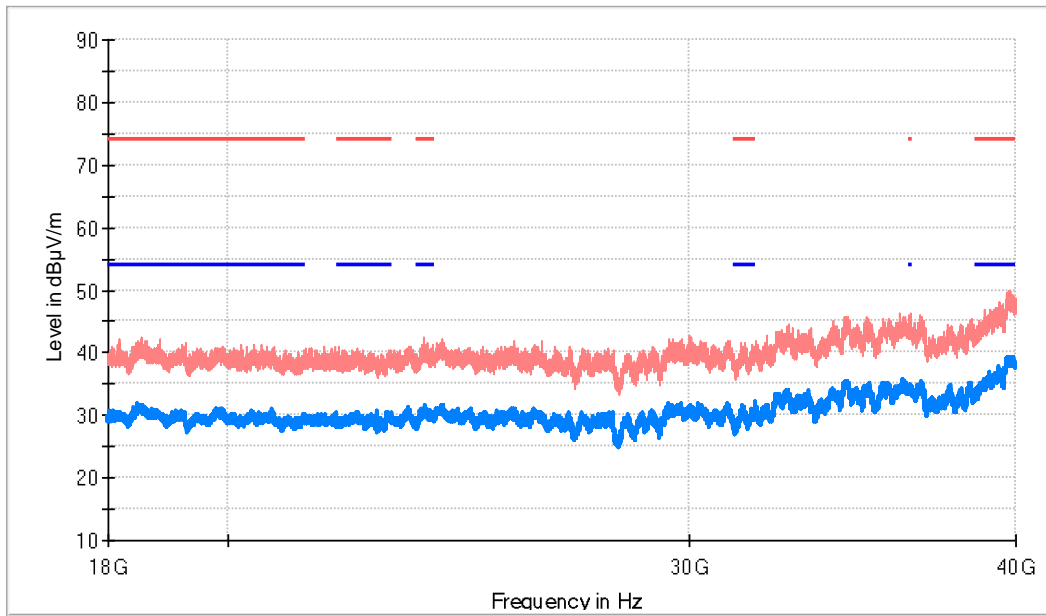


- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

FREQUENCY RANGE 18 – 40 GHz

Highest Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

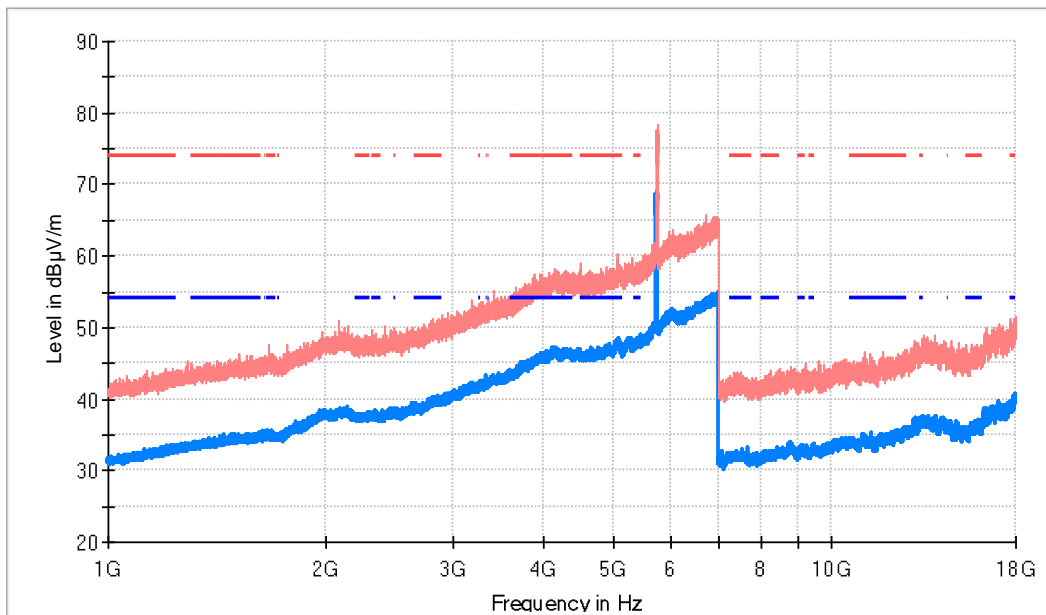
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 (n mode 40 MHz)
TEST RESULTS:	PASS

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

For 18 GHz – 40 GHz frequency range the radiated spurious signals detected were 20 dB below the reference limit or lower for low, middle and high channels.

Lowest Channel



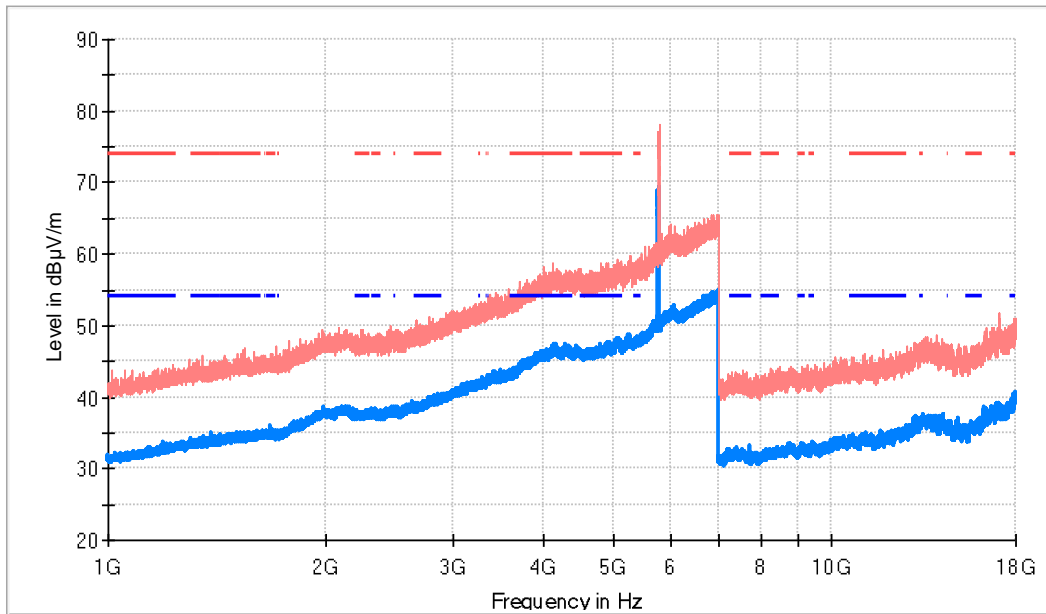
- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5746.818182	77.2	69.0	V	Fundamental

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Highest Channel



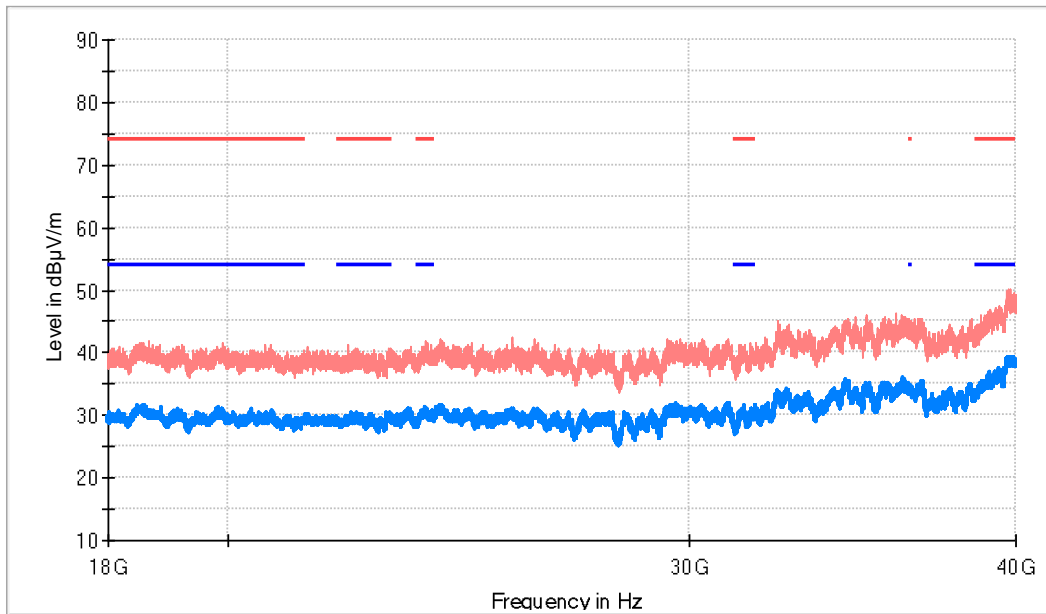
- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5780.090909	77.38	69.36	V	Fundamental

TEST RESULTS (Cont.)

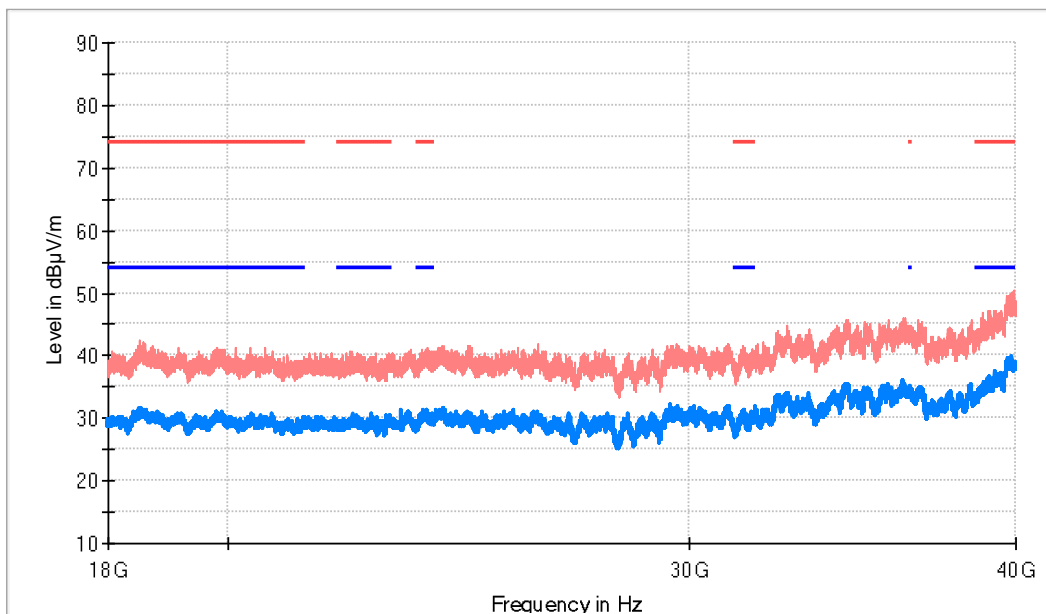
FREQUENCY RANGE 18 – 40 GHz

Lowest Channel



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Highest Channel



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

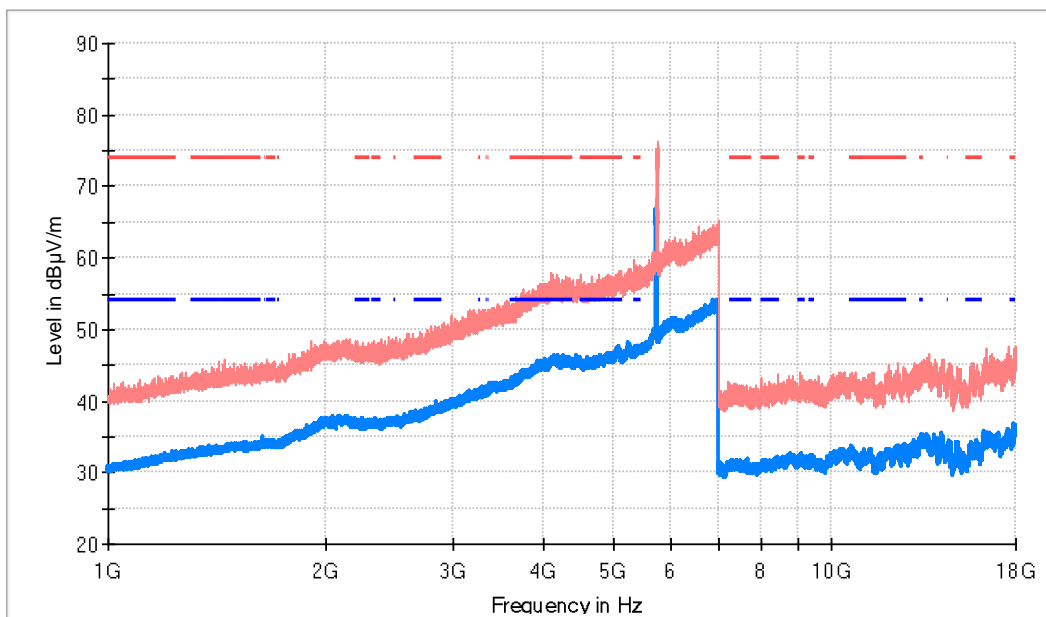
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (ac mode 20 MHz)
TEST RESULTS:	PASS

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

For 18 GHz – 40 GHz frequency range the radiated spurious signals detected were 20 dB below the reference limit or lower for low, middle and high channels.

Lowest Channel



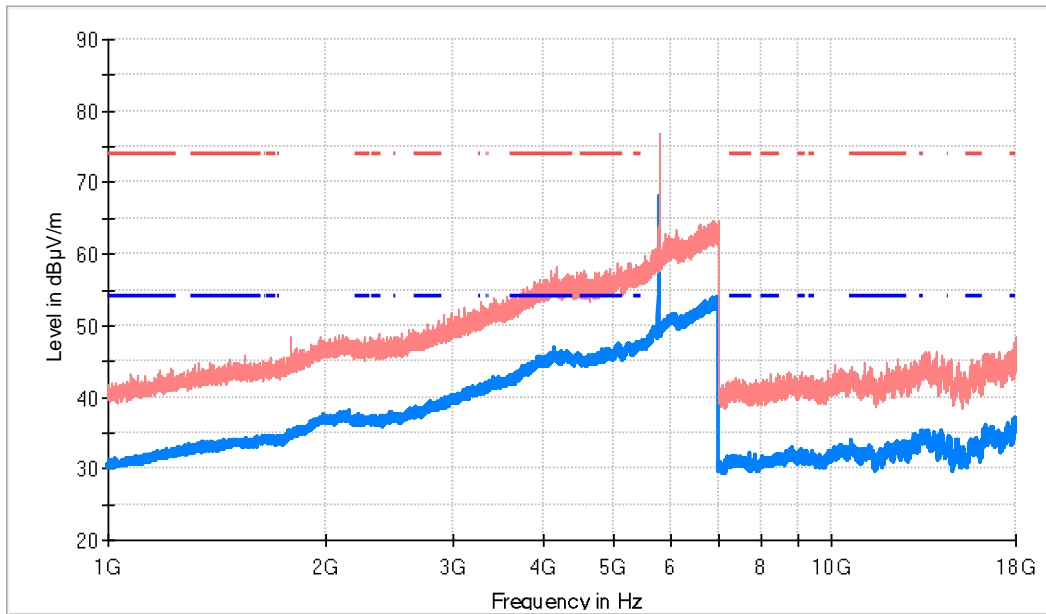
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5752.272727	75.7	66.9	V	Fundamental

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Middle Channel



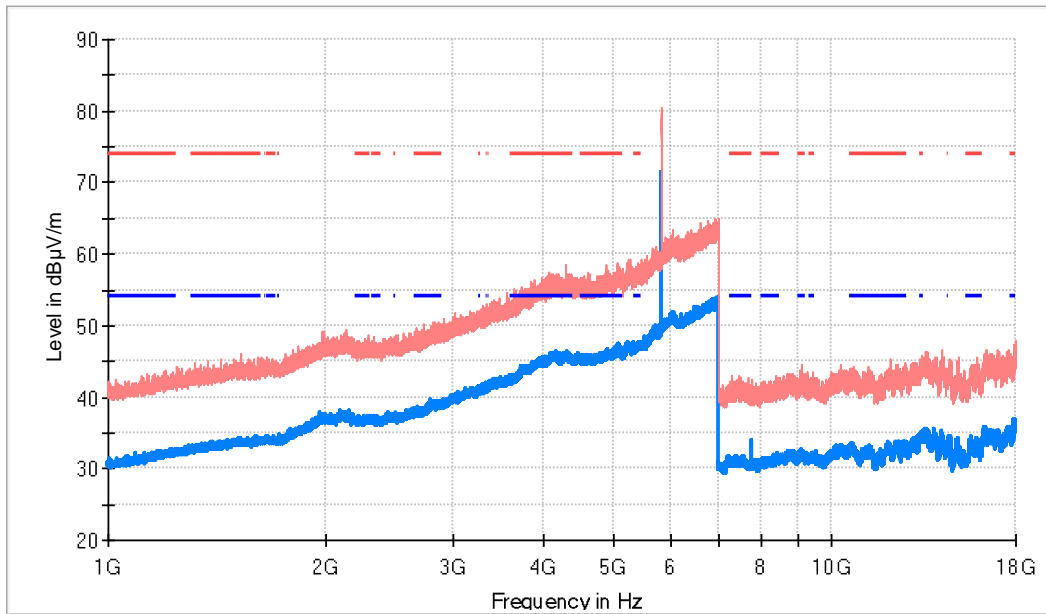
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5790.454546	76.7	67.9	V	Fundamental

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Highest Channel



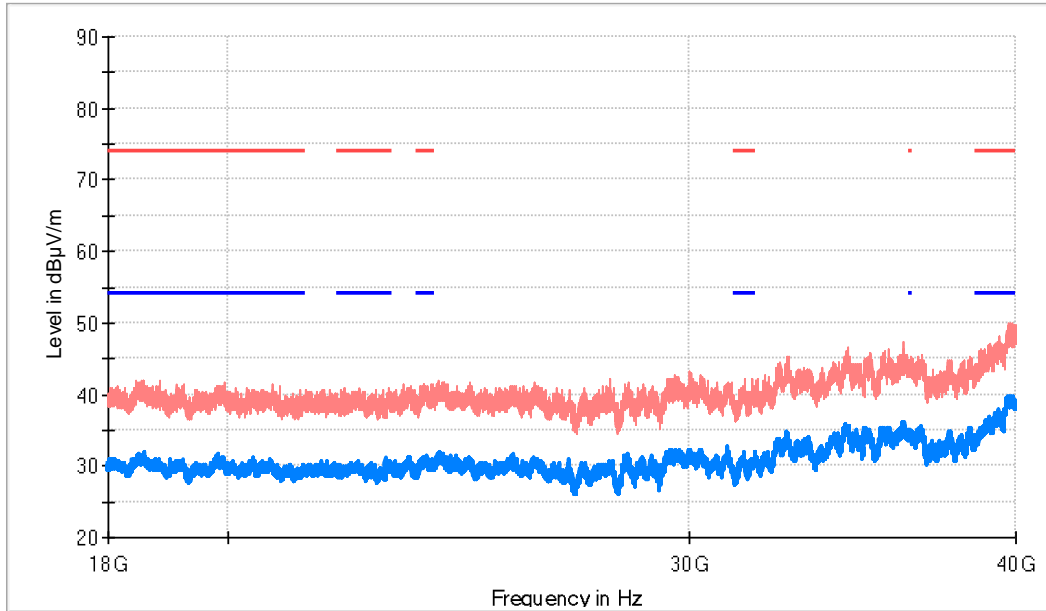
- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Comment
5821.545455	78.3	71.4	V	Fundamental

TEST RESULTS (Cont.)

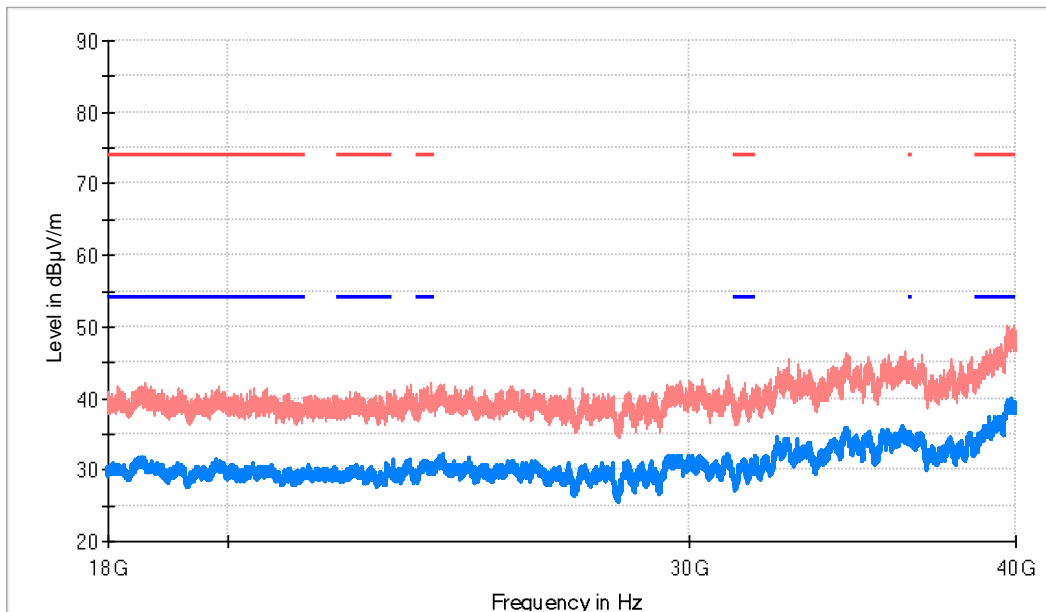
FREQUENCY RANGE 18 – 40 GHz

Lowest Channel



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Middle Channel

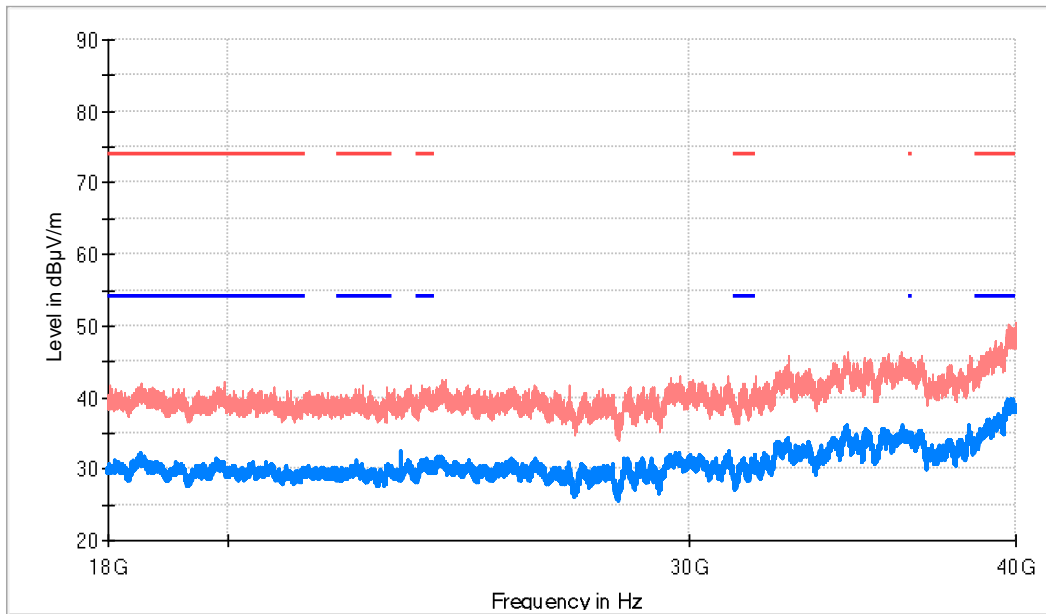


- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

FREQUENCY RANGE 18 – 40 GHz

Highest Channel



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

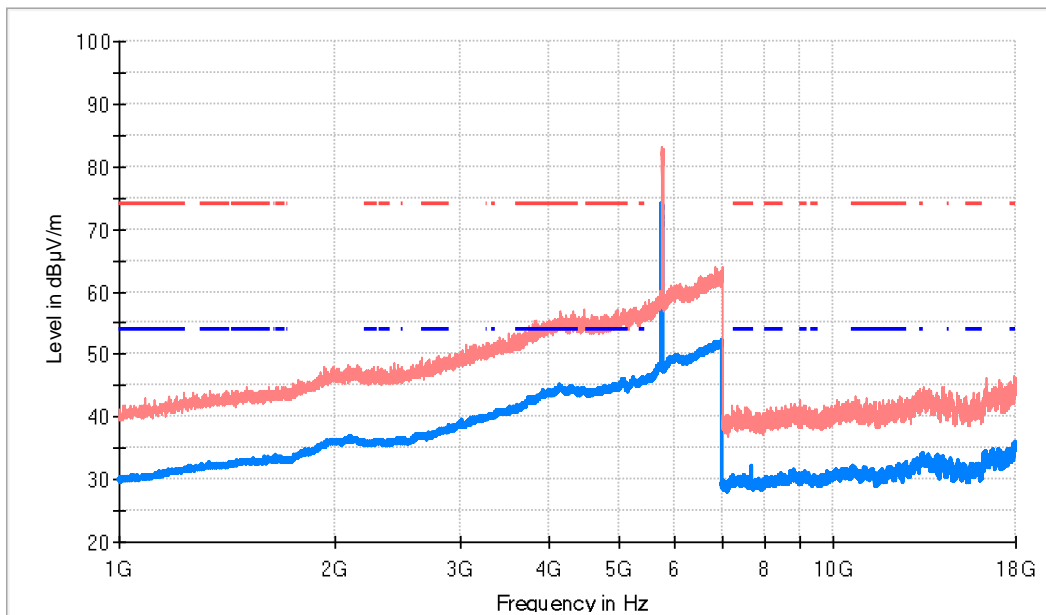
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (ac mode 40 MHz)
TEST RESULTS:	PASS

Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

For 18 GHz – 40 GHz frequency range the radiated spurious signals detected were 20 dB below the reference limit or lower for low, middle and high channels.

Lowest Channel

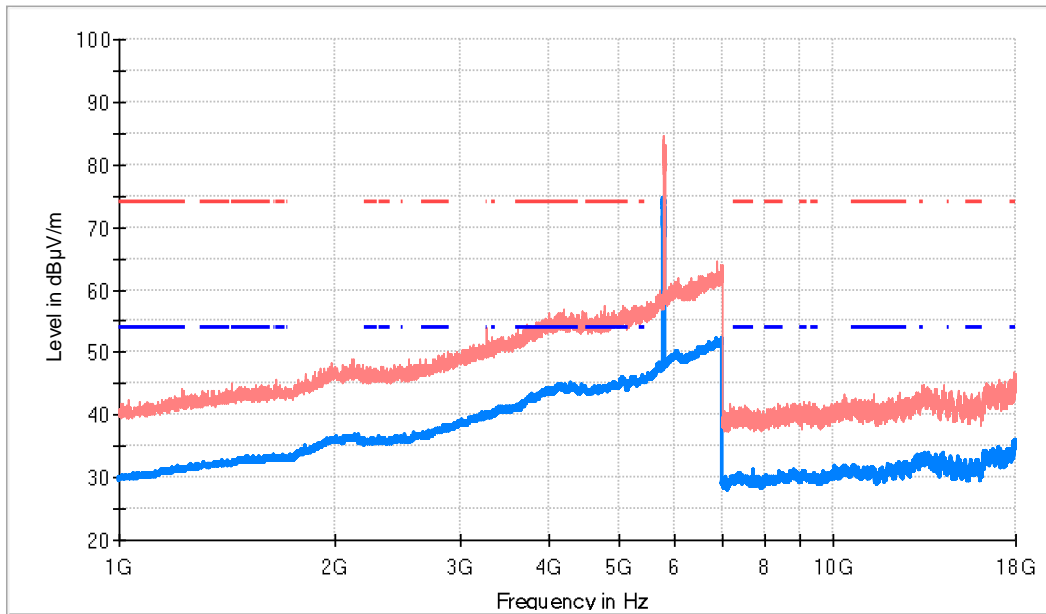


- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

FREQUENCY RANGE 1 GHz – 18 GHz

Highest Channel



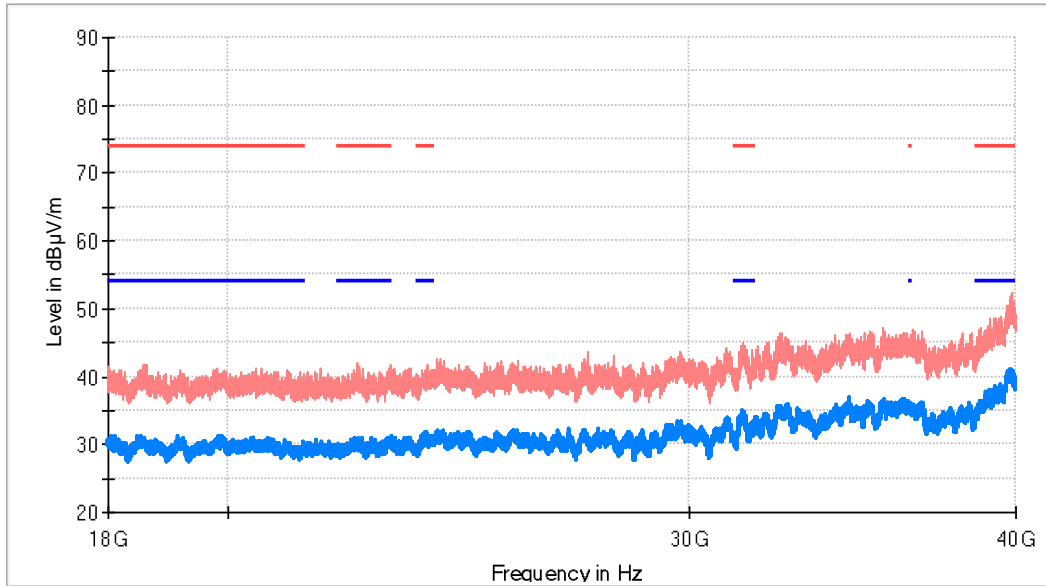
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

FREQUENCY RANGE 18 – 40 GHz

Lowest Channel

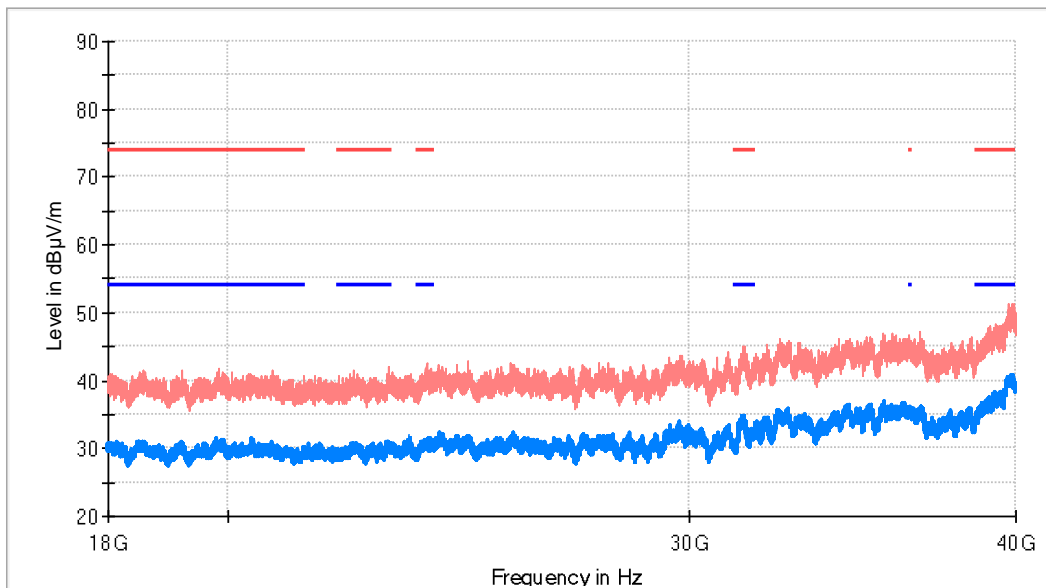
RF_FCC_15.407_E Field_18GHz_40GHz



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Highest Channel

RF_FCC_15.407_E Field_18GHz_40GHz



- AVG_MAXH
- PK+_MAXH
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- - - TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (ac mode 80 MHz)
TEST RESULTS:	PASS

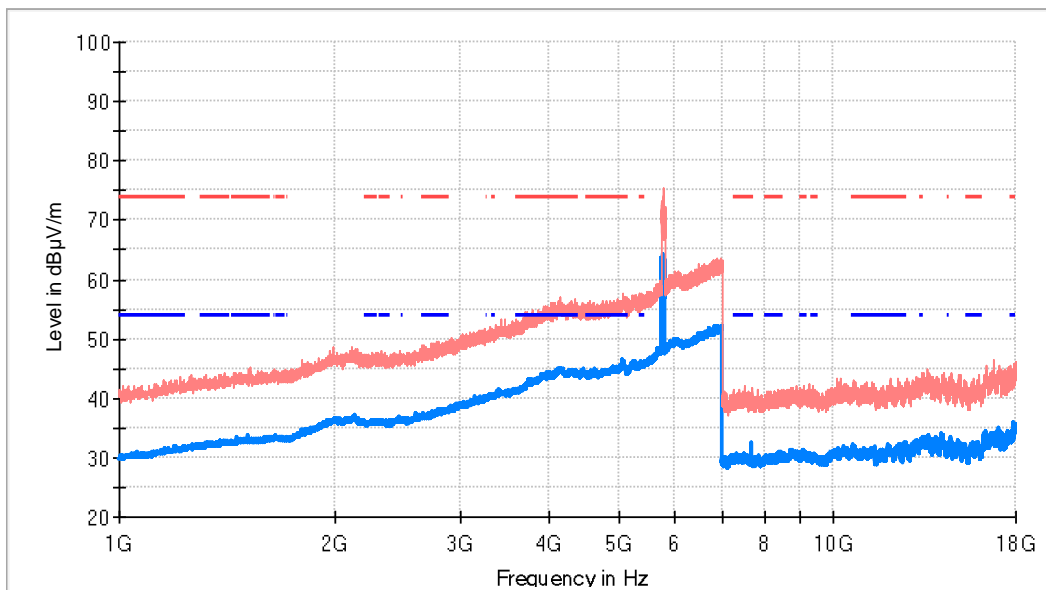
Frequency range 1 GHz – 40 GHz

The results and plots below show the maximum measured levels in the 1- 40 GHz range.

For 18 GHz – 40 GHz frequency range the radiated spurious signals detected were 20 dB below the reference limit or lower for low, middle and high channels.

Middle Channel

RF_FCC_15.407_E Field_1GHz_18GHz



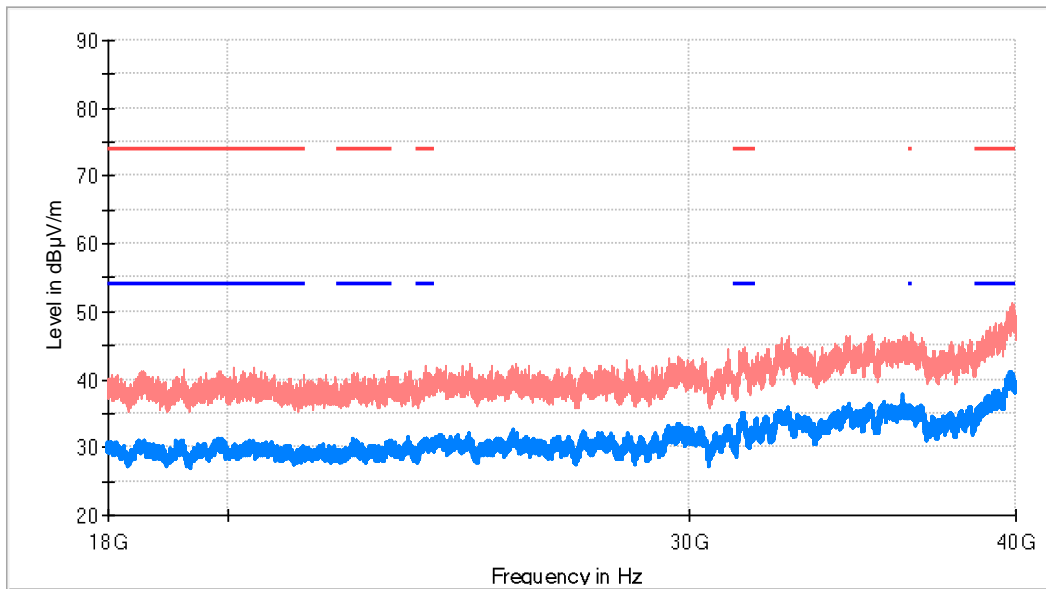
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

FREQUENCY RANGE 18 – 40 GHz

Middle Channel

RF_FCC_15.407_E Field_18GHz_40GHz



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC1 5.407 (1GHz to 40 GHz) Restricted Bands AVG Limit