



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Report No.: GZEM181000127203
Page: 1 of 45

TEST REPORT

Application No.: GZEM1810001272CR
Applicant: Hex Technology Limited
Address of Applicant: Unit 311A, 3/F, IC Development Centre, No. 6 Science Park West Avenue,
Science Park, Sha Tin, Hong Kong
Manufacturer: Beijing Pinecone Electronics Co., Ltd.
Address of Manufacturer: Cell C, Building C Lin NO.66, Zhufang Road, Qinghe, Haidian, Beijing
Factory: Inventec Appliance (Jiangning) Corporation
Address of Factory: 133, Jiangjun Road, Jiangning Economic and Technological Development
Zone, Nanjing 211153, P.R.China
Equipment Under Test (EUT):
EUT Name: HERELINK
Model No.: HERELINK Controller Unit: HX4-06075
Trade Mark: HERELINK
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2018-10-15
Date of Test: 2019-01-14 to 2019-07-18
Date of Issue: 2019-07-19

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-07-19		Original

Authorized for issue by:			
Tested By	 Curry_Wu /Project Engineer	2019-01-14 to 2019-07-18 Date	
Checked By	 Ricky_Liu /Reviewer	2019-07-19 Date	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10(2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247b(1)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.12	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass



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4 General Information

4.1 Details of E.U.T.

Power Supply:	For Controller Unit: DC 5V by USB port for charging DC 3.6V rechargeable battery for working For Air Unit: DC 5-12V
Test Voltage:	AC 120V 60Hz Charing& DC3.6V working for Controller Unit DC 12V for Air Unit
Cable:	About 1.5m unscreened USB cable About 0.5m screened HDMI cable
Antenna Type	Dedicated antenna
Antenna Gain for #1 antenna	3dBi
Antenna Gain for #2 antenna	4dBi
Channel Spacing	5MHz
Modulation Type	OFDM
Number of Channels	11
Operation Frequency	2412-2462MHz
Function	Video transmitting with 2.4GHz self-define technique.
Remark	Clause 6.1.2 the two antennas are identical. schematic/components used, and PCB between RF chip and antenna connection port are identical. The two antennas will not synchronize transmission signal due to the Ant #2 defaulted as transmit antenna and #1 is diversity antenna which only be active when defaulted antenna received signal strength indication very weak. all test was performed at both antenna port, only the worst data from Ant #2 was record in the report.

4.2 Channels list

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz
2	2417MHz	6	2437MHz	10	2457MHz
3	2422MHz	7	2442MHz	11	2462MHz
4	2427MHz	8	2447MHz		



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4.3 Description of Support Units

The EUT has been tested as an independent unit.

4.4 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^{\circ}\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555

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No tests were sub-contracted.



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4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01



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MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01
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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2018-12-08	2019-12-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19



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EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
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Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



EUT Antenna:

The antenna is dedicated and no consideration of replacement. The best case gain of the antenna is 4dBi(ANT 2) & 3dBi(ANT 1).

7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥ 500 kHz

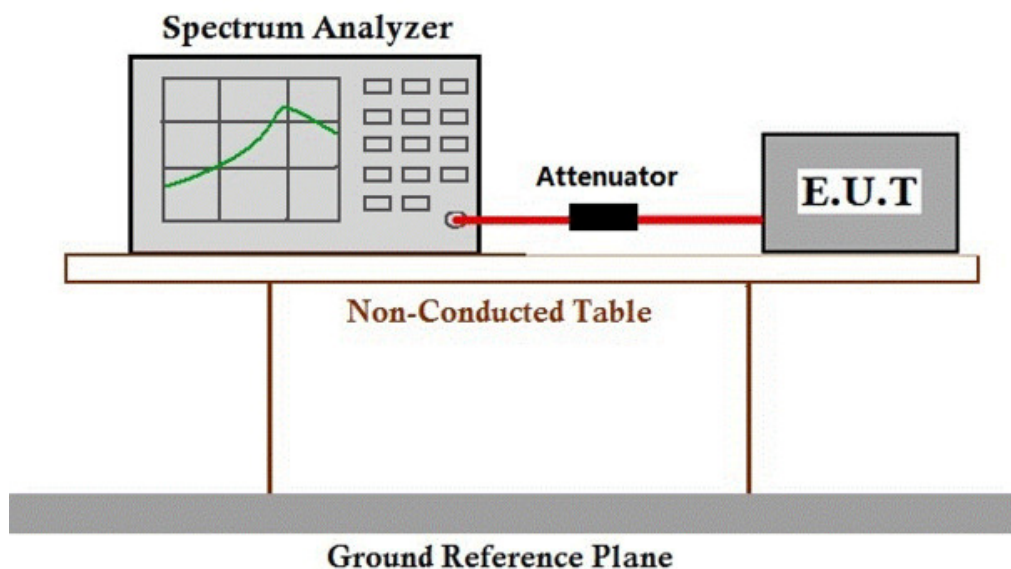
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

Test mode d: TX mode_Control Unit_Keep the EUT in continuously transmitting with modulation mode.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247b(1)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

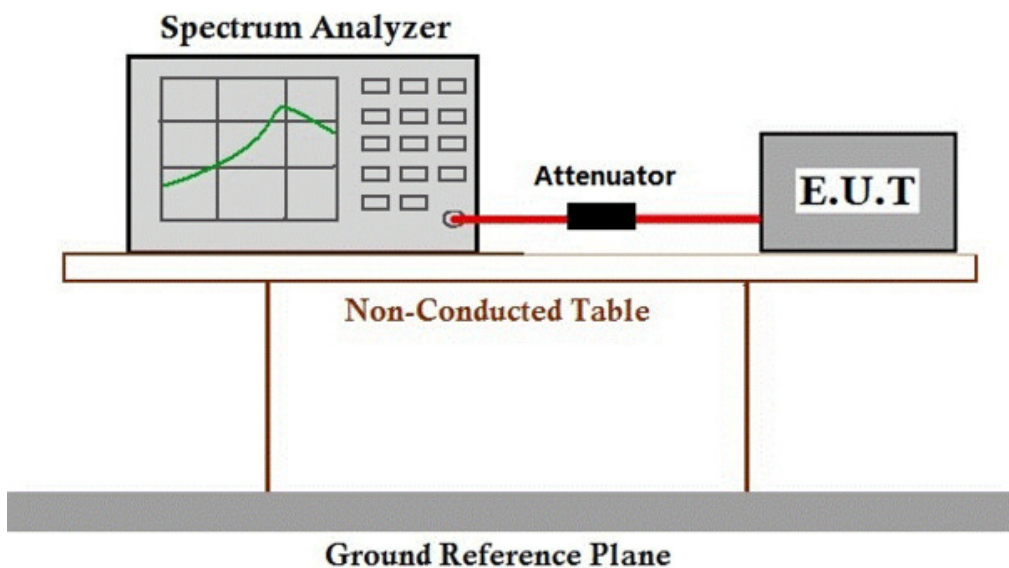
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar

Test mode d: TX mode_Control Unit_Keep the EUT in continuously transmitting with modulation mode.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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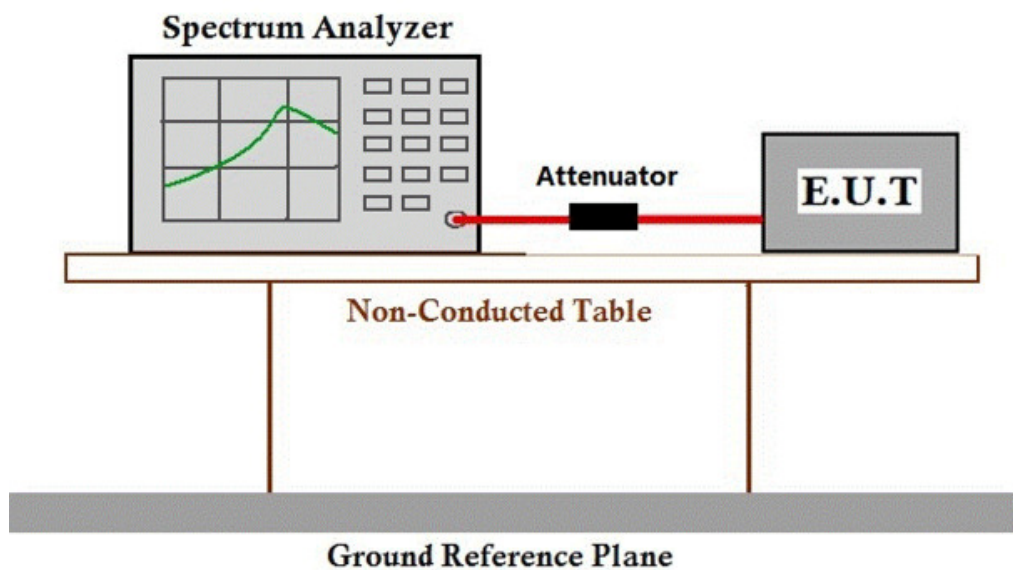
7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2013) Section 11.10.2
 Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.8 °C Humidity: 55.9 % RH Atmospheric Pressure: 1020 mbar
 Test mode e: TX mode_Air Unit_Keep the EUT in continuously transmitting with modulation mode.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

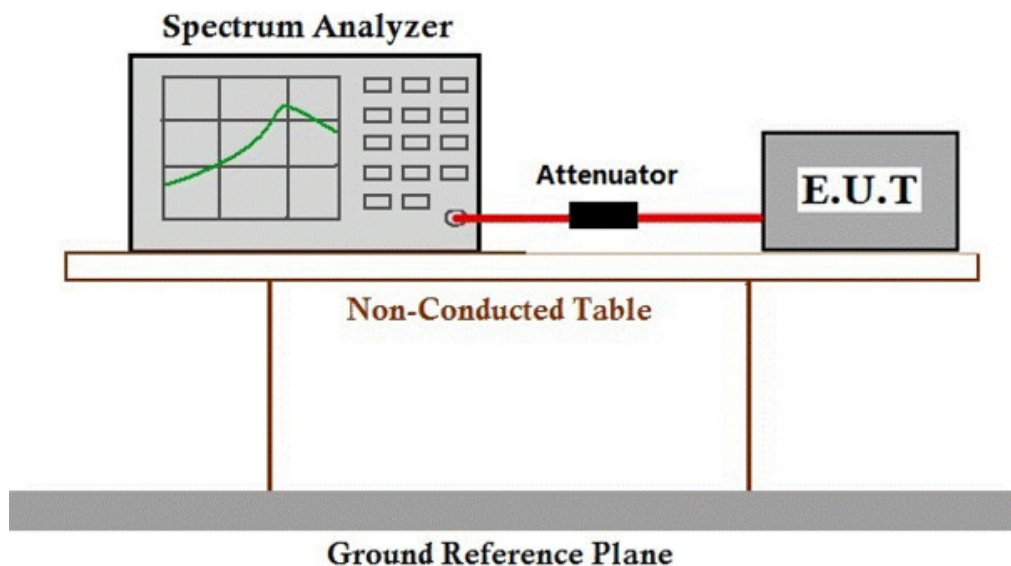
7.4 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.12
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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))

7.4.1 E.U.T. Operation

Operating Environment:				
Temperature:	23.8 °C	Humidity:	55.9 % RH	Atmospheric Pressure: 1020 mbar
Test mode	e: TX mode_Air Unit_Keep the EUT in continuously transmitting with modulation mode.			

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

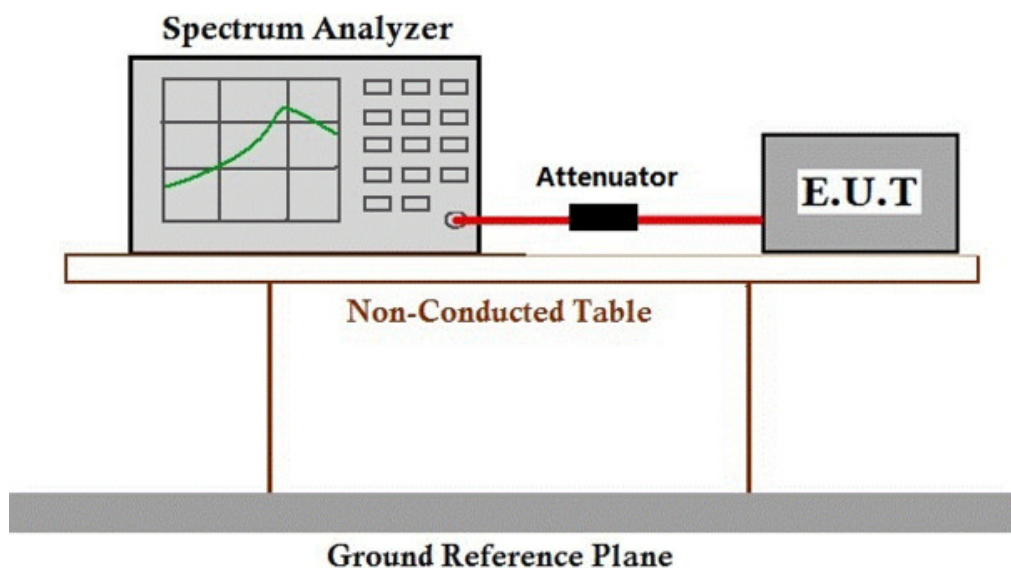
7.5 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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))

7.5.1 E.U.T. Operation

Operating Environment:				
Temperature:	23.8 °C	Humidity:	55.9 % RH	Atmospheric Pressure: 1020 mbar
Test mode	e: TX mode_Air Unit_Keep the EUT in continuously transmitting with modulation mode.			

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
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	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

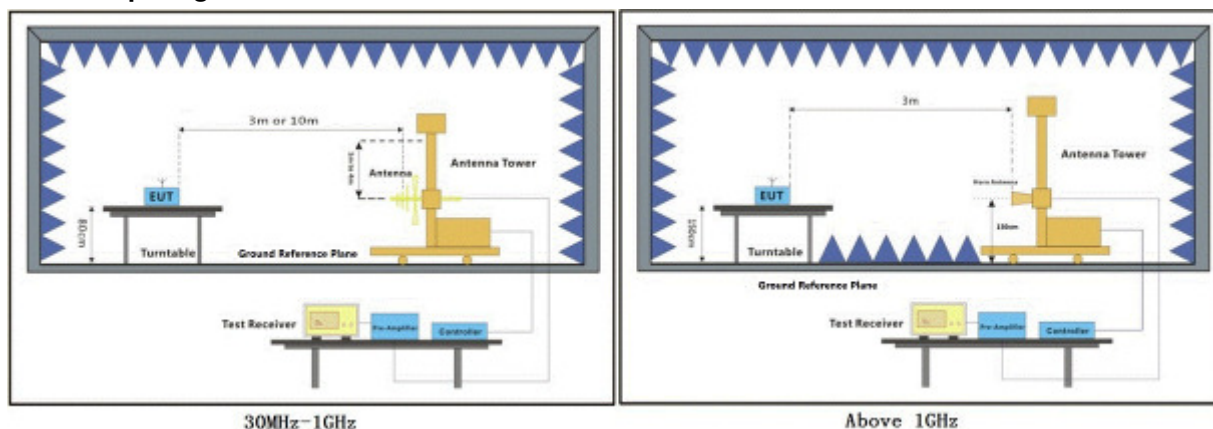
Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test mode d: TX mode_Control Unit_Keep the EUT in continuously transmitting with modulation mode.

Remark The device emission mode only available when air unit and controller unit wireless connected and synchronize transmission, therefore the test was performed with synchronize transmission mode and radiated emission data in this report is identical with the data in air unit report GZEM181000127301.
 Air unit FCC ID: 2ARLU-HA06071.

7.6.2 Test Setup Diagram



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7.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:e; Polarization:Horizontal; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.15	26.25	5.03	37.44	27.99	54.00	-26.01 HORIZONTAL Average
2	2310.000	47.89	26.25	5.03	37.44	41.73	74.00	-32.27 HORIZONTAL Peak
3	2390.000	31.64	26.43	4.88	37.42	25.53	54.00	-28.47 HORIZONTAL Average
4	2390.000	56.43	26.43	4.88	37.42	50.32	74.00	-23.68 HORIZONTAL Peak
5	2483.500	32.22	26.58	5.23	37.40	26.63	54.00	-27.37 HORIZONTAL Average
6	2483.500	48.07	26.58	5.23	37.40	42.48	74.00	-31.52 HORIZONTAL Peak
7	2500.000	31.48	26.60	4.95	37.39	25.64	54.00	-28.36 HORIZONTAL Average
8	2500.000	48.39	26.60	4.95	37.39	42.55	74.00	-31.45 HORIZONTAL Peak

Mode:e; Polarization:Vertical; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2310.000	38.86	26.25	5.03	37.44	32.70	54.00	-21.30 VERTICAL Average
2	2310.000	55.37	26.25	5.03	37.44	49.21	74.00	-24.79 VERTICAL Peak
3	2390.000	42.86	26.43	4.88	37.42	36.75	54.00	-17.25 VERTICAL Average
4	2390.000	72.98	26.43	4.88	37.42	66.87	74.00	-7.13 VERTICAL Peak
5	2483.500	41.63	26.58	5.23	37.40	36.04	54.00	-17.96 VERTICAL Average
6	2483.500	56.13	26.58	5.23	37.40	50.54	74.00	-23.46 VERTICAL Peak
7	2500.000	42.32	26.60	4.95	37.39	36.48	54.00	-17.52 VERTICAL Average
8	2500.000	56.03	26.60	4.95	37.39	50.19	74.00	-23.81 VERTICAL Peak



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Mode:e; Polarization:Horizontal; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.47	26.25	5.03	37.44	28.31	54.00	-25.69 HORIZONTAL Average
2	2310.000	49.43	26.25	5.03	37.44	43.27	74.00	-30.73 HORIZONTAL Peak
3	2390.000	35.13	26.43	4.88	37.42	29.02	54.00	-24.98 HORIZONTAL Average
4	2390.000	50.30	26.43	4.88	37.42	44.19	74.00	-29.81 HORIZONTAL Peak
5	2483.473	49.04	26.58	5.23	37.40	43.45	94.00	-50.55 HORIZONTAL Average
6	2483.500	72.45	26.58	5.23	37.40	66.86	74.00	-7.14 HORIZONTAL Peak
7	2500.000	34.58	26.60	4.95	37.39	28.74	54.00	-25.26 HORIZONTAL Average
8	2500.000	49.86	26.60	4.95	37.39	44.02	74.00	-29.98 HORIZONTAL Peak

Mode:e; Polarization:Vertical; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.76	26.25	5.03	37.44	27.60	54.00	-26.40 VERTICAL Average
2	2310.000	49.20	26.25	5.03	37.44	43.04	74.00	-30.96 VERTICAL Peak
3	2390.000	36.17	26.43	4.88	37.42	30.06	54.00	-23.94 VERTICAL Average
4	2390.000	49.75	26.43	4.88	37.42	43.64	74.00	-30.36 VERTICAL Peak
5	2483.500	41.00	26.58	5.23	37.40	35.41	54.00	-18.59 VERTICAL Average
6	2483.500	56.11	26.58	5.23	37.40	50.52	74.00	-23.48 VERTICAL Peak
7	2500.000	34.69	26.60	4.95	37.39	28.85	54.00	-25.15 VERTICAL Average
8	2500.000	49.69	26.60	4.95	37.39	43.85	74.00	-30.15 VERTICAL Peak



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
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	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test mode e: TX mode_Air Unit_Keep the EUT in continuously transmitting with modulation mode.

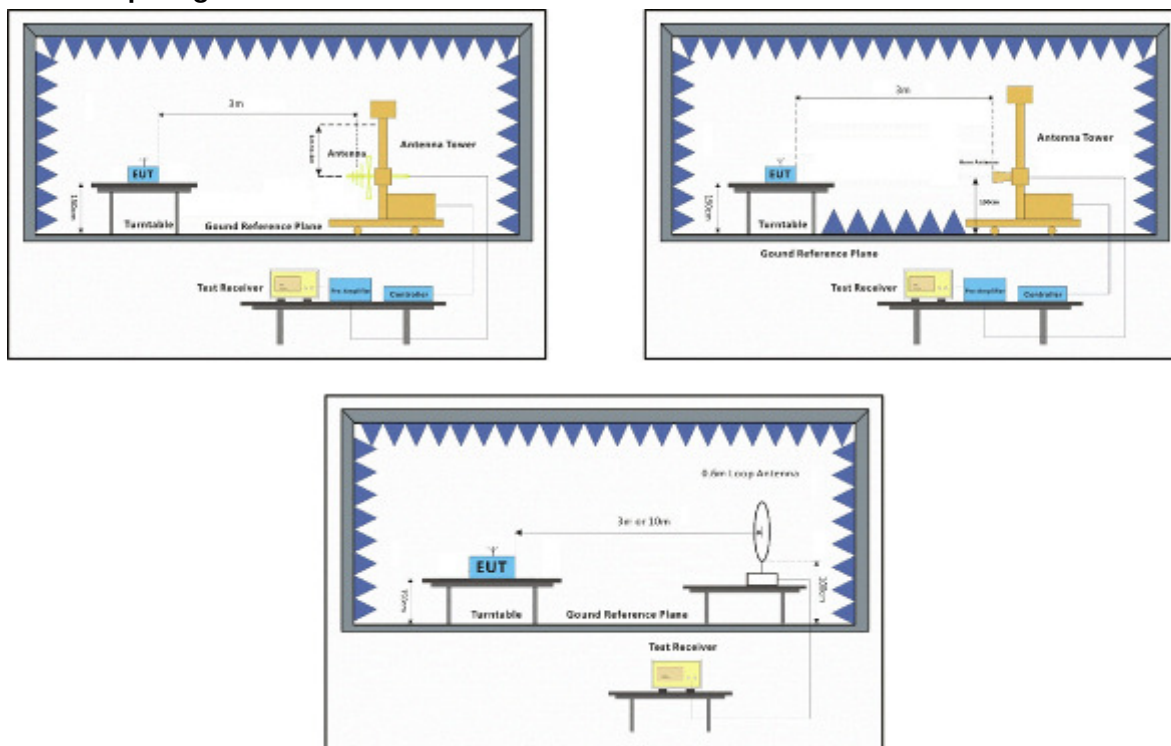
Remark The device emission mode only available when air unit and controller unit wireless connected and synchronize transmission, therefore the test was performed with synchronize transmission mode and radiated emission data in this report is identical with the data in air unit report GZEM181000127301. Air unit FCC ID: 2ARLU-HA06071.



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7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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Mode:e; Polarization:Horizontal; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	54.261	24.64	12.68	0.59	29.49	8.42	40.00	-31.58 HORIZONTAL QP
2	100.934	29.13	9.66	0.85	29.40	10.24	43.50	-33.26 HORIZONTAL QP
3	120.277	29.28	11.52	0.92	29.40	12.32	43.50	-31.18 HORIZONTAL QP
4	172.599	28.53	12.91	1.32	29.40	13.36	43.50	-30.14 HORIZONTAL QP
5	590.974	30.55	20.49	1.99	29.51	23.52	46.00	-22.48 HORIZONTAL QP
6	854.025	29.28	23.47	2.94	29.12	26.57	46.00	-19.43 HORIZONTAL QP

Mode:e; Polarization:Horizontal; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	4267.237	32.67	29.85	6.46	36.91	32.07	54.00	-21.93 HORIZONTAL Average
2	4267.237	46.29	29.85	6.46	36.91	45.69	74.00	-28.31 HORIZONTAL Peak
3	4824.993	33.49	30.85	6.15	36.94	33.55	54.00	-20.45 HORIZONTAL Average
4	4824.993	46.22	30.85	6.15	36.94	46.28	74.00	-27.72 HORIZONTAL Peak
5	7236.122	31.21	35.55	7.35	36.93	37.18	54.00	-16.82 HORIZONTAL Average
6	7236.122	44.30	35.55	7.35	36.93	50.27	74.00	-23.73 HORIZONTAL Peak
7	8416.584	29.96	36.15	8.07	36.93	37.25	54.00	-16.75 HORIZONTAL Average
8	8416.584	43.91	36.15	8.07	36.93	51.20	74.00	-22.80 HORIZONTAL Peak
9	9648.140	29.12	37.54	8.18	37.08	37.76	54.00	-16.24 HORIZONTAL Average
10	9648.140	42.72	37.54	8.18	37.08	51.36	74.00	-22.64 HORIZONTAL Peak
11	12060.070	26.31	39.46	10.71	37.17	39.31	54.00	-14.69 HORIZONTAL Average
12	12060.070	40.30	39.46	10.71	37.17	53.30	74.00	-20.70 HORIZONTAL Peak



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Mode:e; Polarization:Vertical; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	46.830	29.25	12.92	0.68	29.52	13.33	40.00	-26.67 VERTICAL QP
2	52.391	33.24	12.86	0.60	29.50	17.20	40.00	-22.80 VERTICAL QP
3	91.175	37.70	7.79	0.84	29.40	16.93	43.50	-26.57 VERTICAL QP
4	157.559	28.32	13.38	1.25	29.40	13.55	43.50	-29.95 VERTICAL QP
5	612.064	30.60	20.67	2.10	29.50	23.87	46.00	-22.13 VERTICAL QP
6	833.317	37.95	23.08	2.86	29.24	34.65	46.00	-11.35 VERTICAL QP

Mode:e; Polarization:Vertical; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4181.768	32.66	29.69	6.66	36.91	32.10	54.00	-21.90 VERTICAL Average
2	4181.768	45.75	29.69	6.66	36.91	45.19	74.00	-28.81 VERTICAL Peak
3	4824.110	42.41	30.82	6.01	36.94	42.30	54.00	-11.70 VERTICAL Average
4	4824.110	50.95	30.82	6.01	36.94	50.84	74.00	-23.16 VERTICAL Peak
5	7236.906	29.41	35.55	7.35	36.93	35.38	54.00	-18.62 VERTICAL Average
6	7236.906	43.50	35.55	7.35	36.93	49.47	74.00	-24.53 VERTICAL Peak
7	8295.823	28.08	36.25	8.17	36.92	35.58	54.00	-18.42 VERTICAL Average
8	8295.823	43.53	36.25	8.17	36.92	51.03	74.00	-22.97 VERTICAL Peak
9	9648.689	29.67	37.54	8.18	37.08	38.31	54.00	-15.69 VERTICAL Average
10	9648.689	43.60	37.54	8.18	37.08	52.24	74.00	-21.76 VERTICAL Peak
11	12060.540	25.61	39.46	10.71	37.17	38.61	54.00	-15.39 VERTICAL Average
12	12060.540	39.51	39.46	10.71	37.17	52.51	74.00	-21.49 VERTICAL Peak



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Mode:e; Polarization:Horizontal; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4884.668	31.65	30.95	6.86	36.95	32.51	54.00	-21.49 HORIZONTAL Average
2	4884.668	45.35	30.95	6.86	36.95	46.21	74.00	-27.79 HORIZONTAL Peak
3	6451.353	30.38	34.15	7.03	36.98	34.58	54.00	-19.42 HORIZONTAL Average
4	6451.353	43.38	34.15	7.03	36.98	47.58	74.00	-26.42 HORIZONTAL Peak
5	7326.070	31.15	35.74	7.39	36.92	37.36	54.00	-16.64 HORIZONTAL Average
6	7326.070	44.16	35.74	7.39	36.92	50.37	74.00	-23.63 HORIZONTAL Peak
7	8764.146	28.21	36.33	8.00	36.97	35.57	54.00	-18.43 HORIZONTAL Average
8	8764.146	43.36	36.33	8.00	36.97	50.72	74.00	-23.28 HORIZONTAL Peak
9	9768.430	28.34	37.74	8.37	37.09	37.36	54.00	-16.64 HORIZONTAL Average
10	9768.430	44.09	37.74	8.37	37.09	53.11	74.00	-20.89 HORIZONTAL Peak
11	12210.750	25.41	39.21	10.98	37.06	38.54	54.00	-15.46 HORIZONTAL Average
12	12210.750	39.68	39.21	10.98	37.06	52.81	74.00	-21.19 HORIZONTAL Peak

Mode:e; Polarization:Vertical; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3856.668	27.45	29.19	7.73	36.91	27.46	54.00	-26.54 VERTICAL Average
2	3856.668	44.38	29.19	7.73	36.91	44.39	74.00	-29.61 VERTICAL Peak
3	4884.721	31.62	30.95	6.86	36.95	32.48	54.00	-21.52 VERTICAL Average
4	4884.721	45.16	30.95	6.86	36.95	46.02	74.00	-27.98 VERTICAL Peak
5	7326.267	29.78	35.74	7.39	36.92	35.99	54.00	-18.01 VERTICAL Average
6	7326.267	44.88	35.74	7.39	36.92	51.09	74.00	-22.91 VERTICAL Peak
7	8392.292	29.66	36.16	8.09	36.93	36.98	54.00	-17.02 VERTICAL Average
8	8392.292	43.70	36.16	8.09	36.93	51.02	74.00	-22.98 VERTICAL Peak
9	9768.970	30.79	37.74	8.37	37.09	39.81	54.00	-14.19 VERTICAL Average
10	9768.970	43.40	37.74	8.37	37.09	52.42	74.00	-21.58 VERTICAL Peak
11	12210.320	26.58	39.21	10.98	37.06	39.71	54.00	-14.29 VERTICAL Average
12	12210.320	39.87	39.21	10.98	37.06	53.00	74.00	-21.00 VERTICAL Peak



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Mode:e; Polarization:Horizontal; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	3703.723	30.45	28.52	7.24	36.93	29.28	54.00	-24.72 HORIZONTAL Average
2	3703.723	45.03	28.52	7.24	36.93	43.86	74.00	-30.14 HORIZONTAL Peak
3	4924.993	30.22	31.01	7.49	36.95	31.77	54.00	-22.23 HORIZONTAL Average
4	4924.993	45.22	31.01	7.49	36.95	46.77	74.00	-27.23 HORIZONTAL Peak
5	7386.516	27.13	35.85	7.42	36.92	33.48	54.00	-20.52 HORIZONTAL Average
6	7386.516	43.85	35.85	7.42	36.92	50.20	74.00	-23.80 HORIZONTAL Peak
7	8713.630	28.61	36.27	7.96	36.96	35.88	54.00	-18.12 HORIZONTAL Average
8	8713.630	43.87	36.27	7.96	36.96	51.14	74.00	-22.86 HORIZONTAL Peak
9	9848.717	25.64	37.82	8.46	37.09	34.83	54.00	-19.17 HORIZONTAL Average
10	9848.717	43.19	37.82	8.46	37.09	52.38	74.00	-21.62 HORIZONTAL Peak
11	12310.950	27.88	39.03	11.10	36.97	41.04	54.00	-12.96 HORIZONTAL Average
12	12310.950	42.02	39.03	11.10	36.97	55.18	74.00	-18.82 HORIZONTAL Peak

Mode:e; Polarization:Vertical; ; Channel:High

	Freq	ReadAntenna Level Factor	Cable Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	4039.212	30.60	29.53	7.13	36.90	30.36	54.00	-23.64 VERTICAL Average
2	4039.212	45.81	29.53	7.13	36.90	45.57	74.00	-28.43 VERTICAL Peak
3	4924.993	34.18	31.01	7.49	36.95	35.73	54.00	-18.27 VERTICAL Average
4	4924.993	47.40	31.01	7.49	36.95	48.95	74.00	-25.05 VERTICAL Peak
5	7386.727	29.20	35.85	7.42	36.92	35.55	54.00	-18.45 VERTICAL Average
6	7386.727	43.20	35.85	7.42	36.92	49.55	74.00	-24.45 VERTICAL Peak
7	8368.069	29.53	36.18	8.11	36.93	36.89	54.00	-17.11 VERTICAL Average
8	8368.069	43.69	36.18	8.11	36.93	51.05	74.00	-22.95 VERTICAL Peak
9	9848.257	29.80	37.82	8.46	37.09	38.99	54.00	-15.01 VERTICAL Average
10	9848.257	43.75	37.82	8.46	37.09	52.94	74.00	-21.06 VERTICAL Peak
11	12310.580	26.32	39.03	11.10	36.97	39.48	54.00	-14.52 VERTICAL Average
12	12310.580	40.66	39.03	11.10	36.97	53.82	74.00	-20.18 VERTICAL Peak



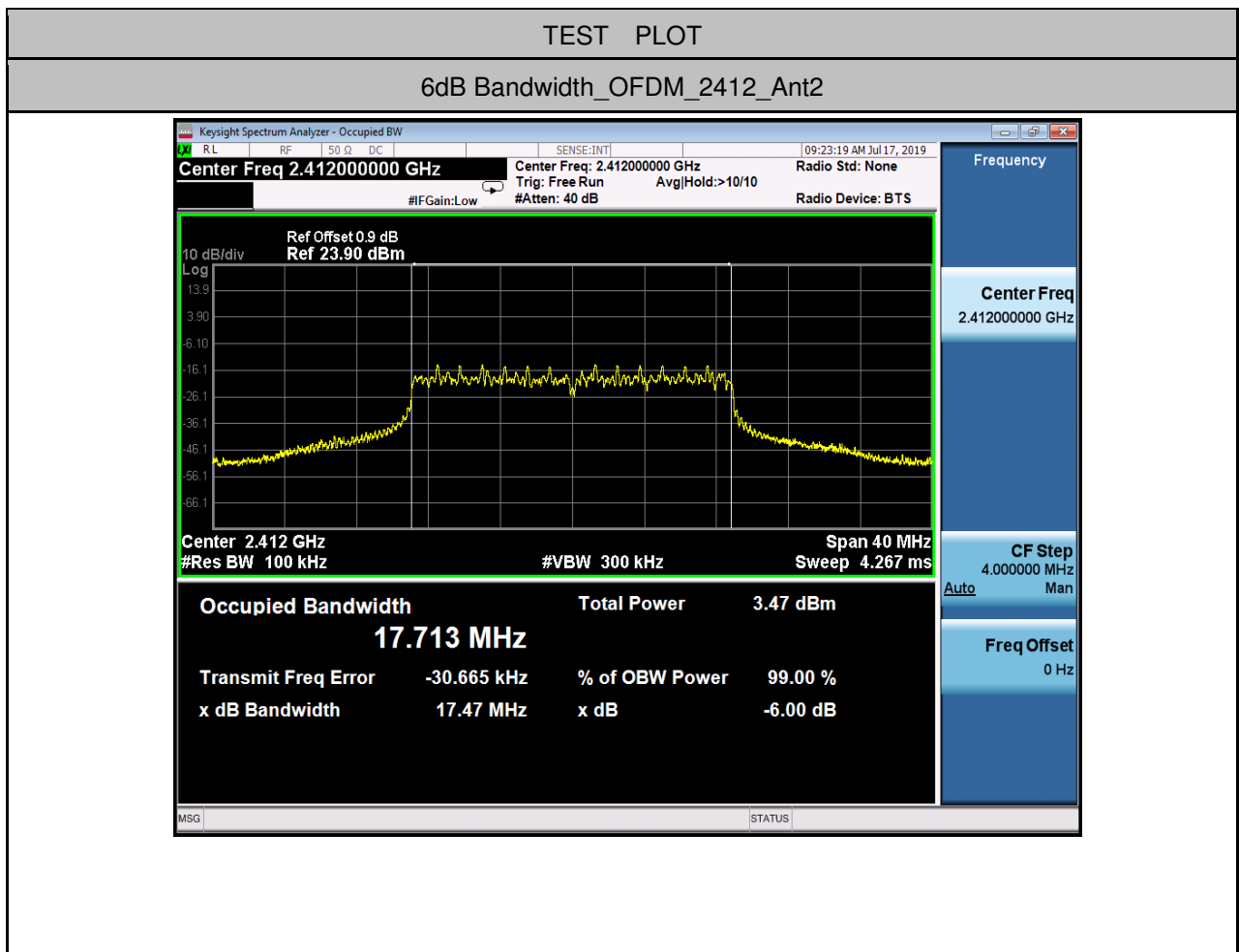
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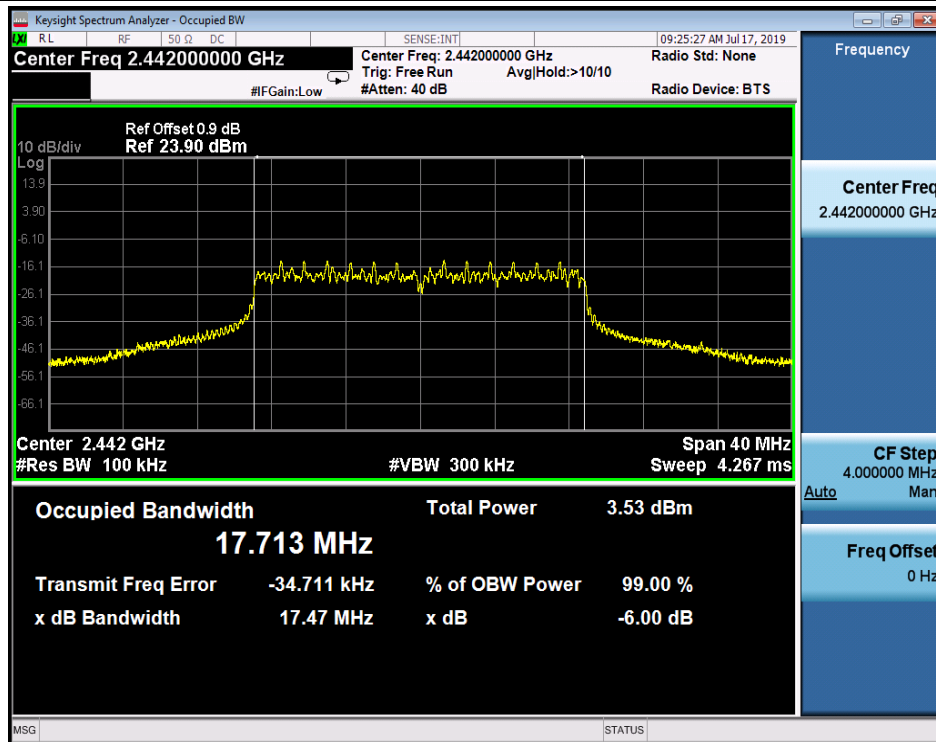
8 Appendix 15.247

1.6dB Bandwidth & 99% occupied bandwidth

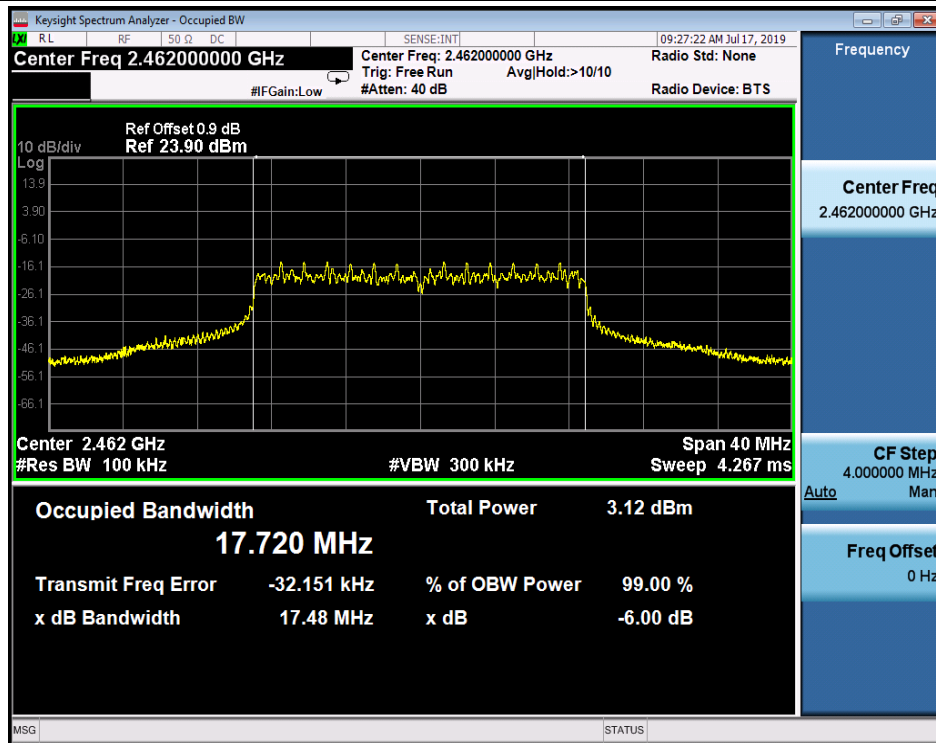
Test Mode	Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit	Verdict
OFDM	2412	Ant2	16.565	17.47	0.5	PASS
OFDM	2442	Ant2	16.550	17.47	0.5	PASS
OFDM	2462	Ant2	16.549	17.48	0.5	PASS



6dB Bandwidth_OFDM_2442_Ant2



6dB Bandwidth_OFDM_2462_Ant2

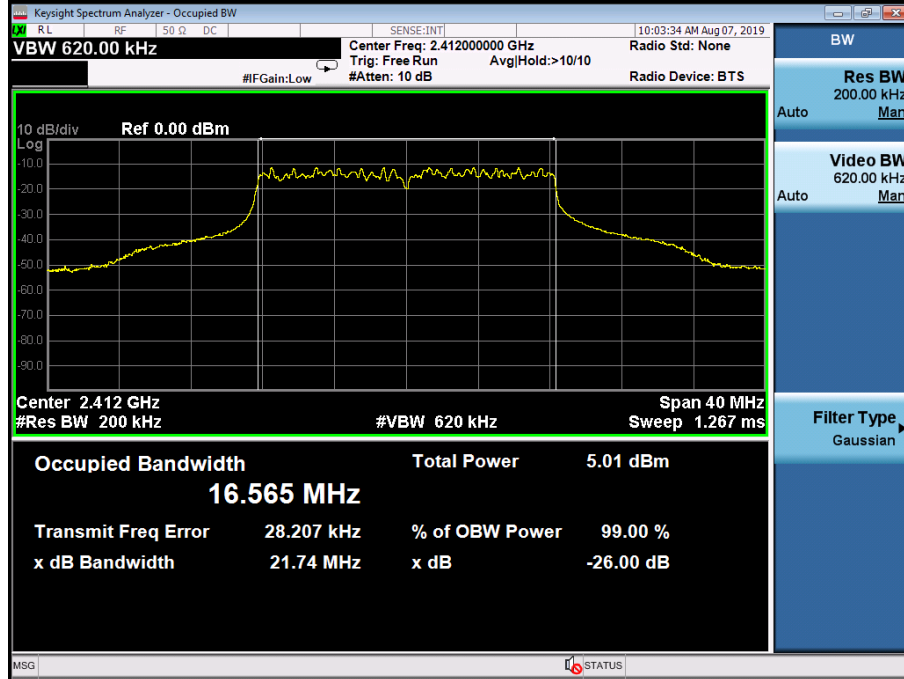


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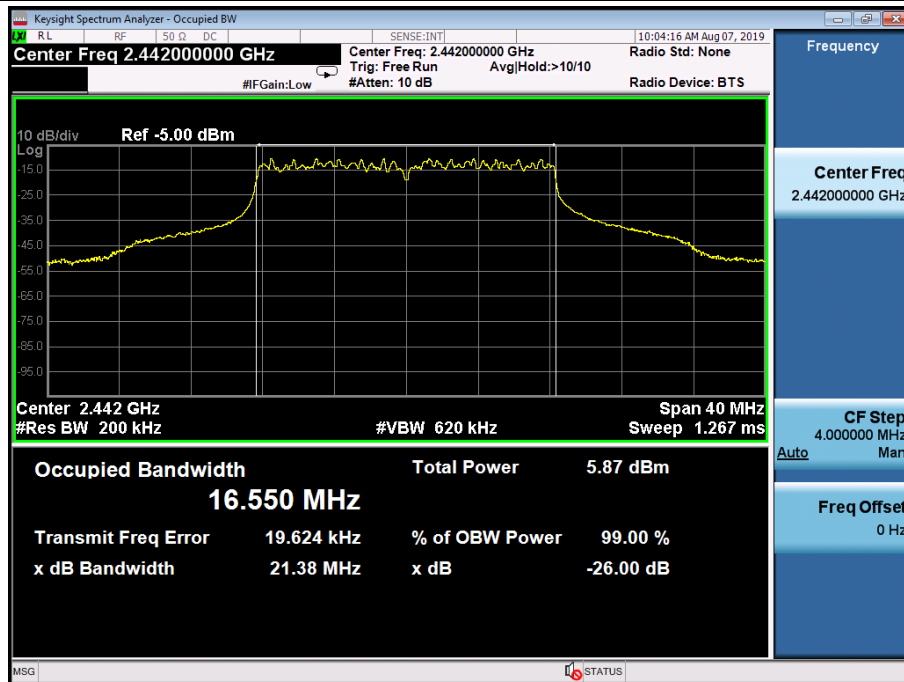
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TEST PLOT

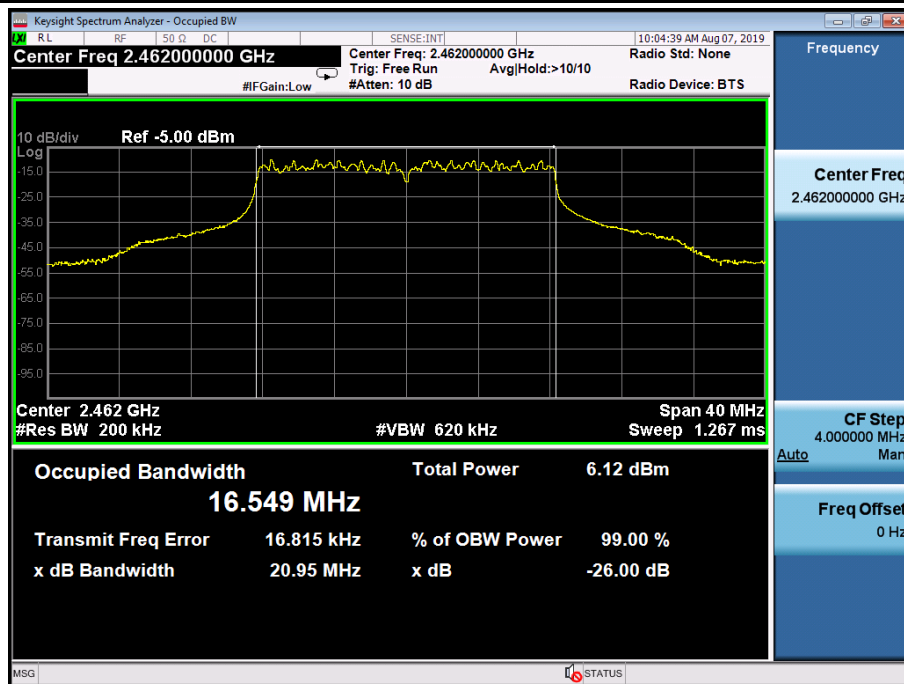
99% Occupied Bandwidth _OFDM_2412_Ant2



99% Occupied Bandwidth _OFDM_2442_Ant2



99% Occupied Bandwidth _OFDM_2462_Ant2

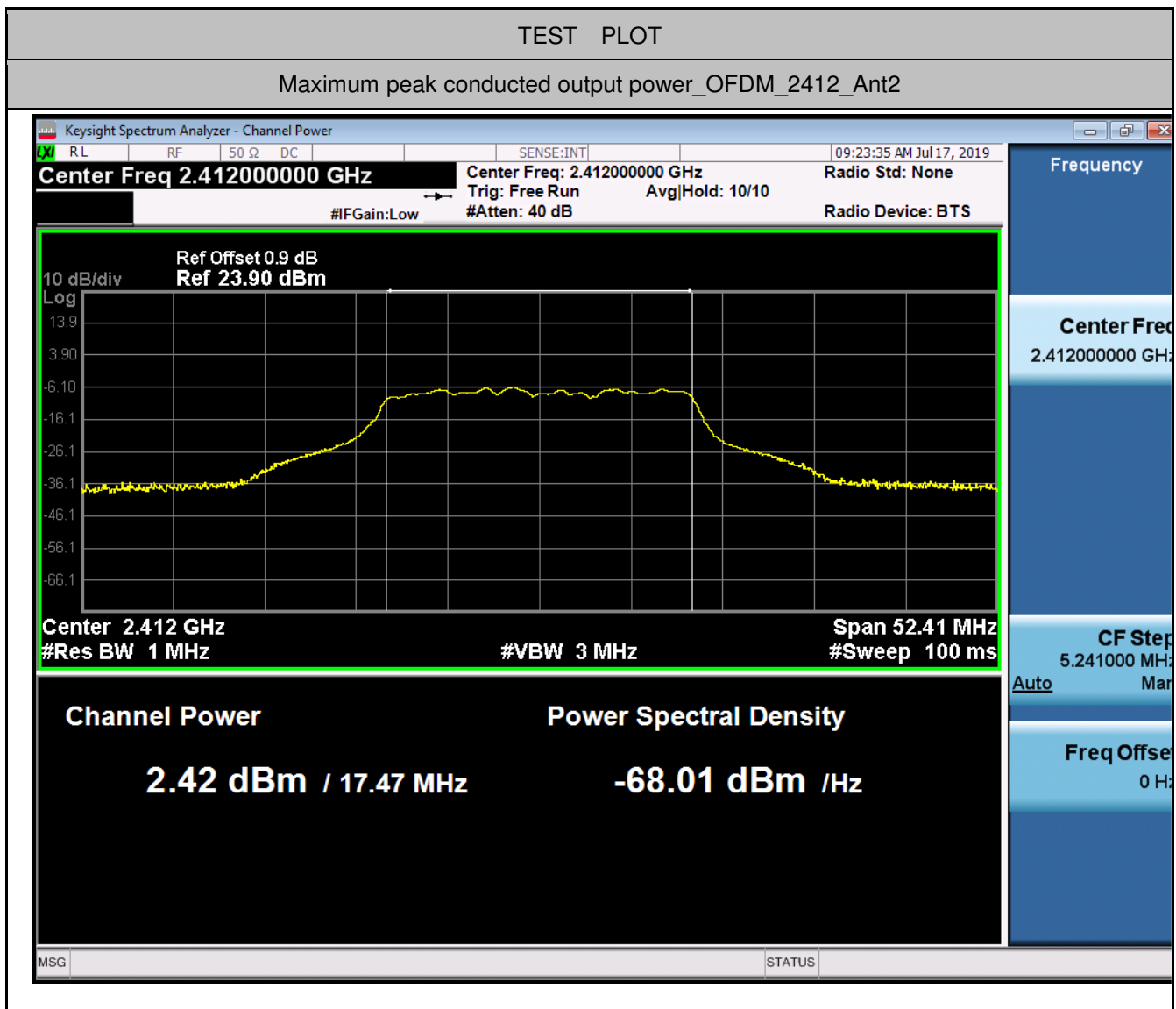


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2. Maximum peak conducted output power

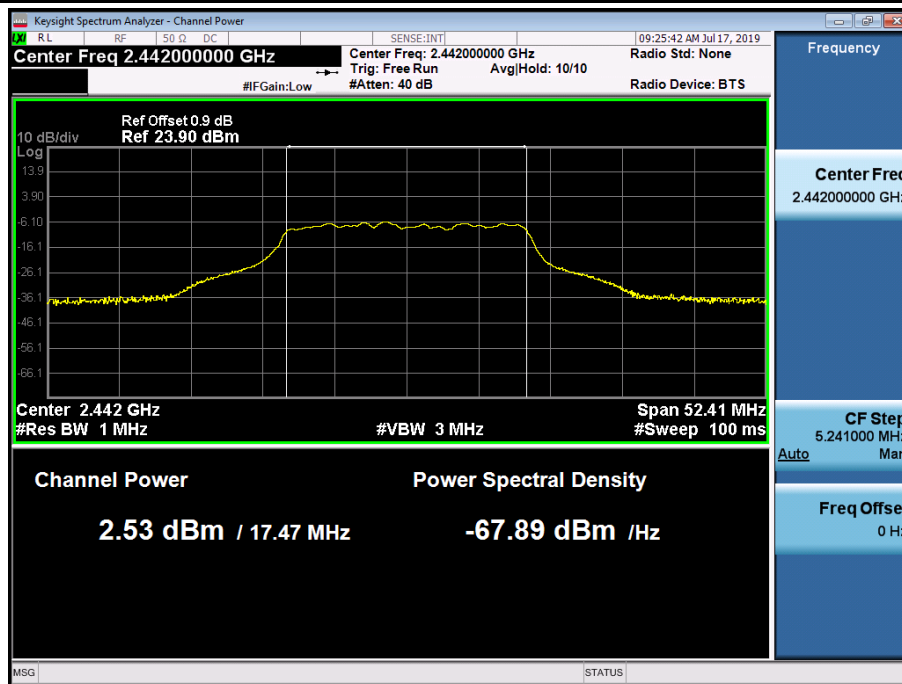
Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
OFDM	2412	Ant2	2.42	30	PASS
OFDM	2442	Ant2	2.53	30	PASS
OFDM	2462	Ant2	3.03	30	PASS



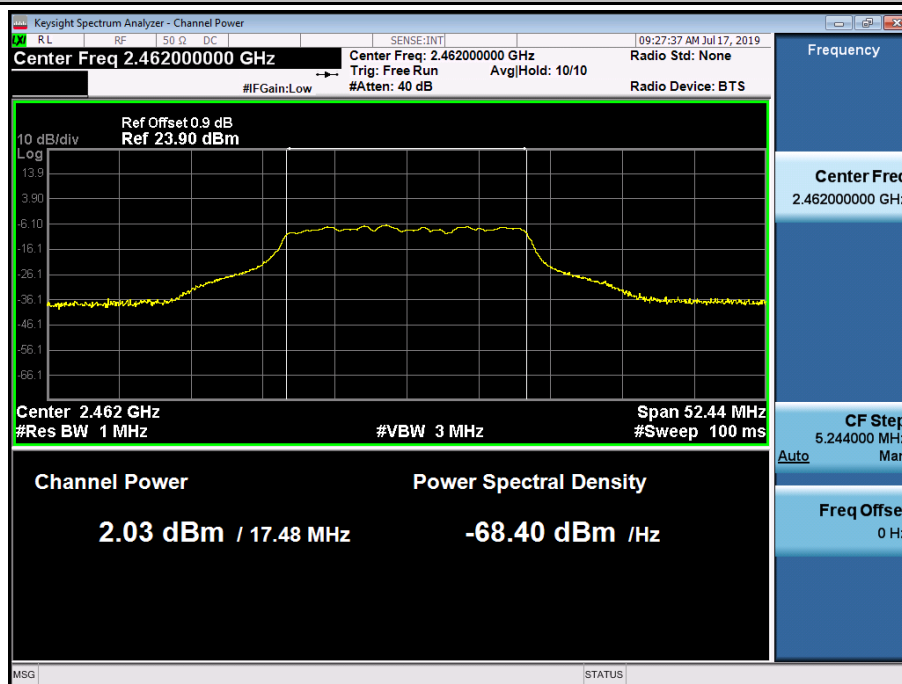
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Maximum peak conducted output power_OFDM_2442_Ant2



Maximum peak conducted output power_OFDM_2462_Ant2



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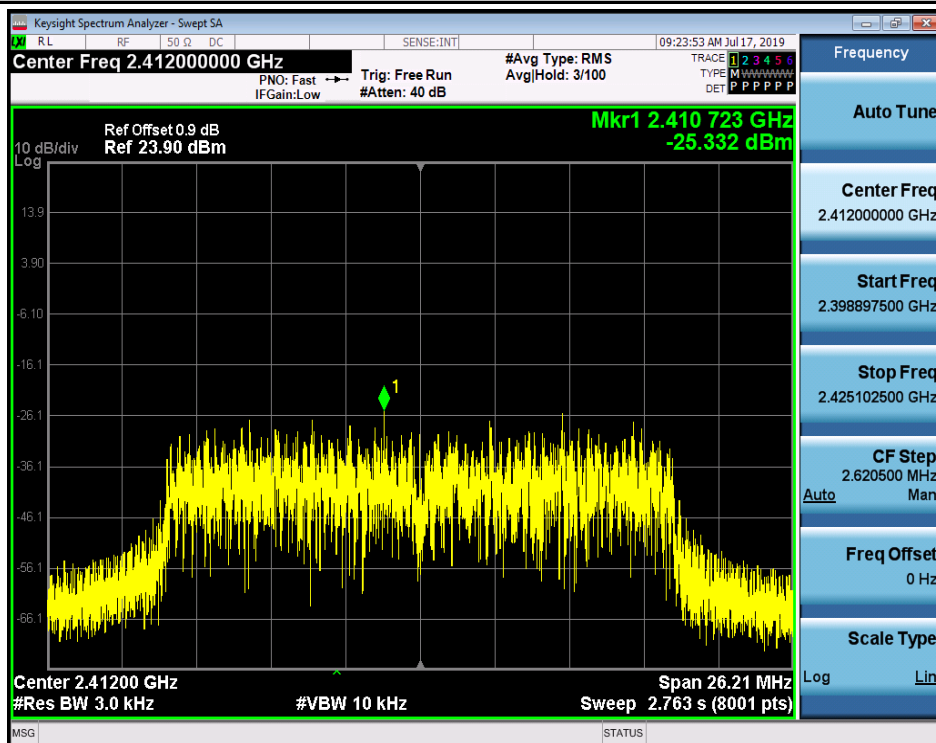
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3. Maximum Peak power spectral density

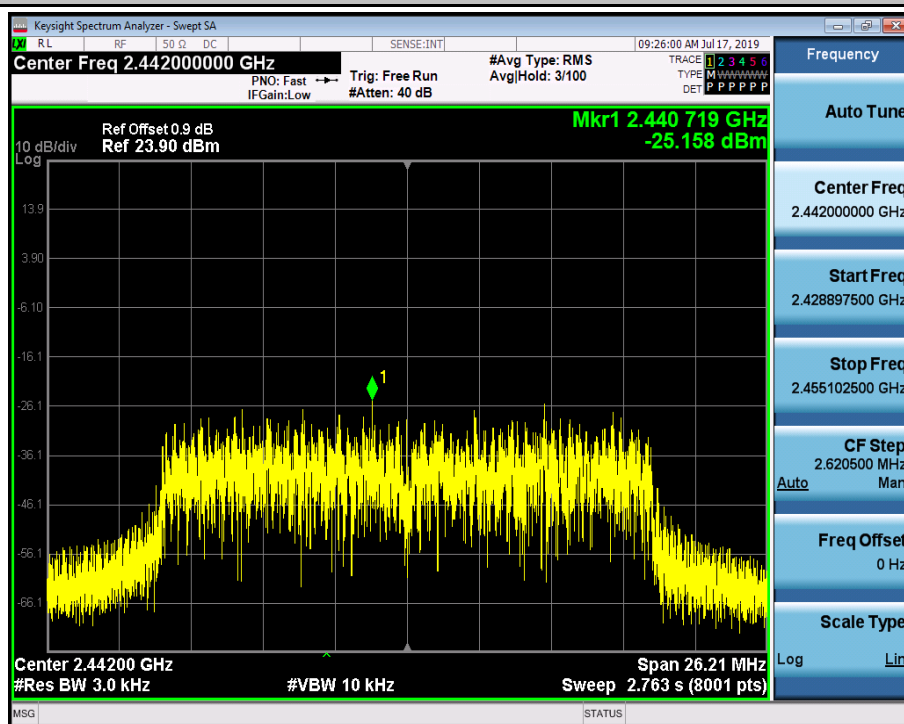
Test Mode	Test Channel	Ant	Result	Limit[dBm/3kHz]	Verdict
OFDM	2412	Ant2	-25.332	8.00	PASS
OFDM	2442	Ant2	-25.158	8.00	PASS
OFDM	2462	Ant2	-25.668	8.00	PASS

TEST PLOT

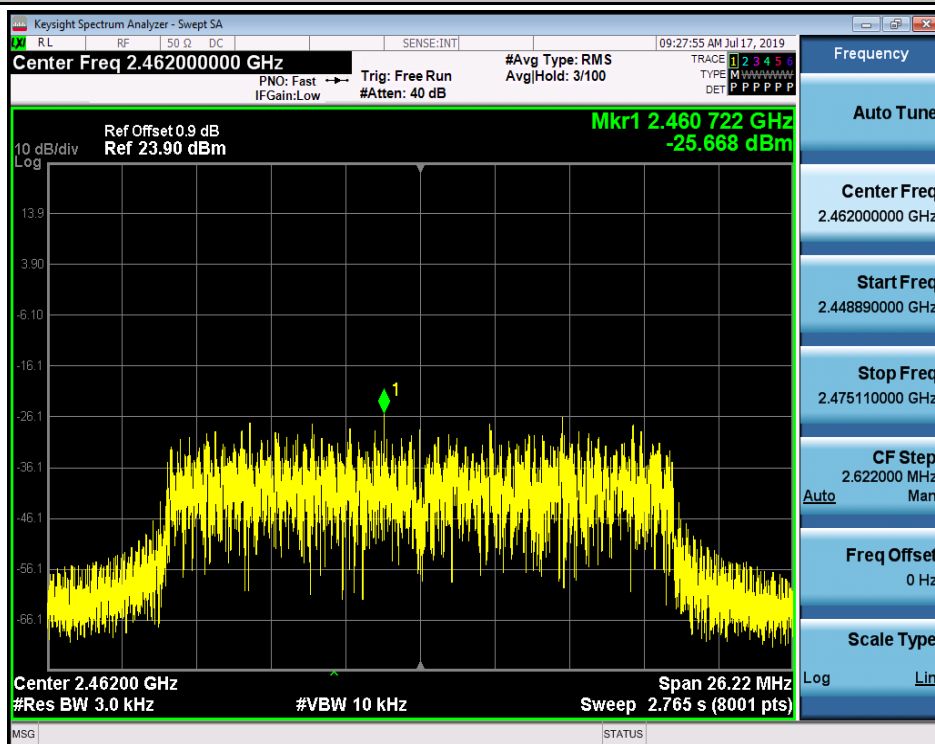
Maximum Peak power spectral density_OFDM_2412_Ant2



Maximum Peak power spectral density_OFDM_2442_Ant2



Maximum Peak power spectral density_OFDM_2462_Ant2



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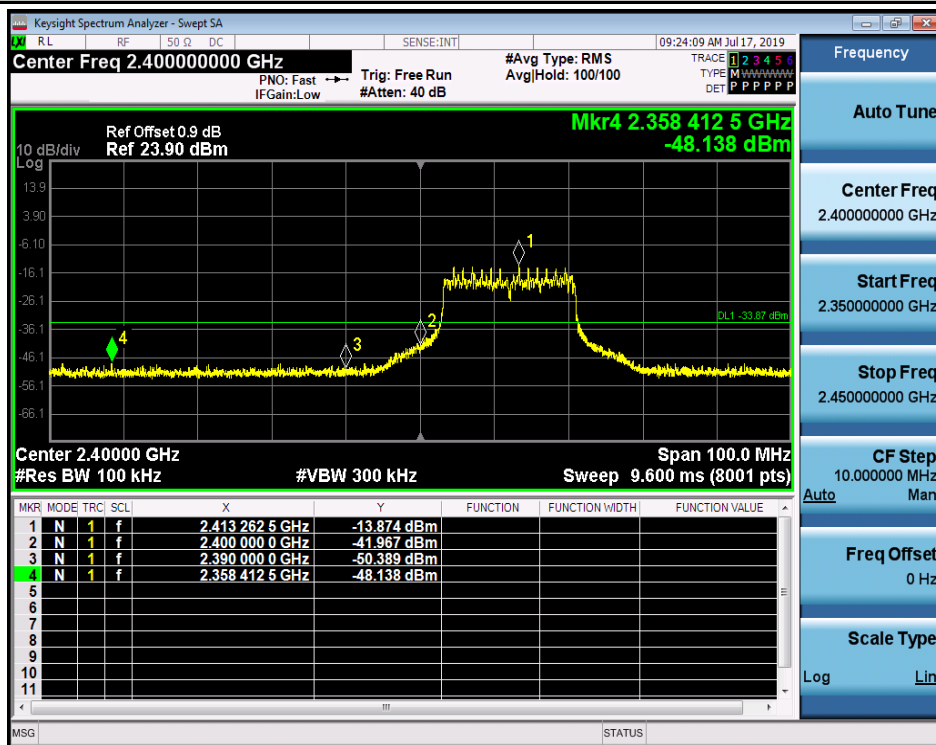
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4. Band-edge for RF Conducted Emissions

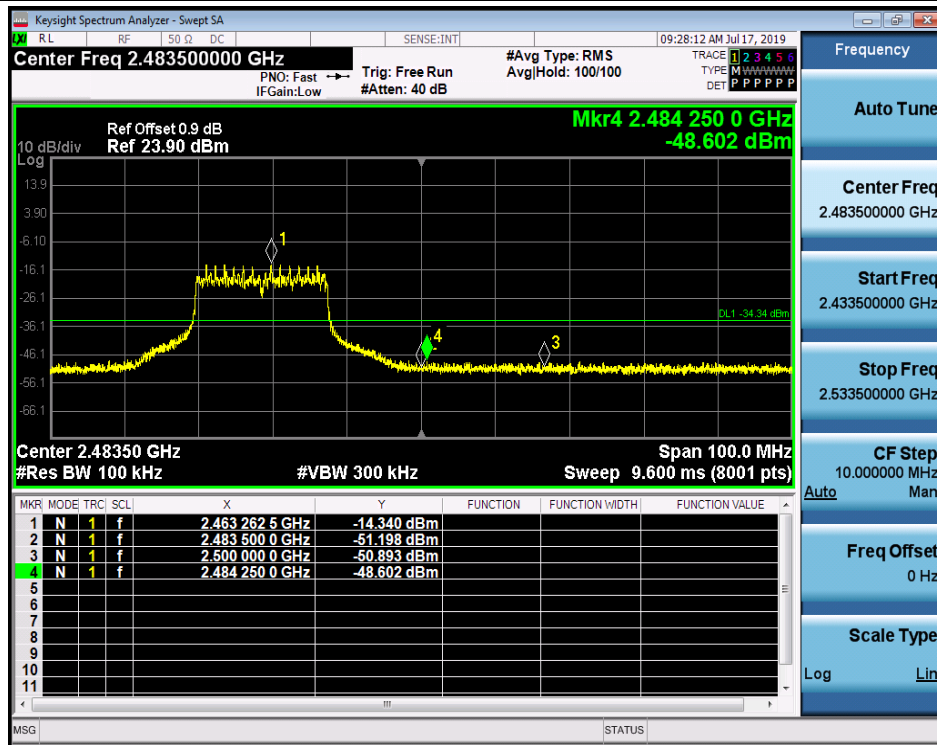
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
OFDM	2412	Ant2	-13.874	-48.138	-33.87	PASS
OFDM	2462	Ant2	-14.340	-48.602	-34.34	PASS

TEST PLOT

Band-edge for RF Conducted Emissions_OFDM_2412_Ant2



Band-edge for RF Conducted Emissions_OFDM_2462_Ant2



5.RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
OFDM	2412	Ant2	30	10000	100	300	-14.075	-54.052	<-34.075	PASS
OFDM	2412	Ant2	10000	26000	100	300	-14.075	-51.713	<-34.075	PASS
OFDM	2442	Ant2	30	10000	100	300	-13.839	-54.470	<-33.839	PASS
OFDM	2442	Ant2	10000	26000	100	300	-13.839	-51.979	<-33.839	PASS
OFDM	2462	Ant2	30	10000	100	300	-14.345	-54.276	<-34.345	PASS
OFDM	2462	Ant2	10000	26000	100	300	-14.345	-51.574	<-34.345	PASS



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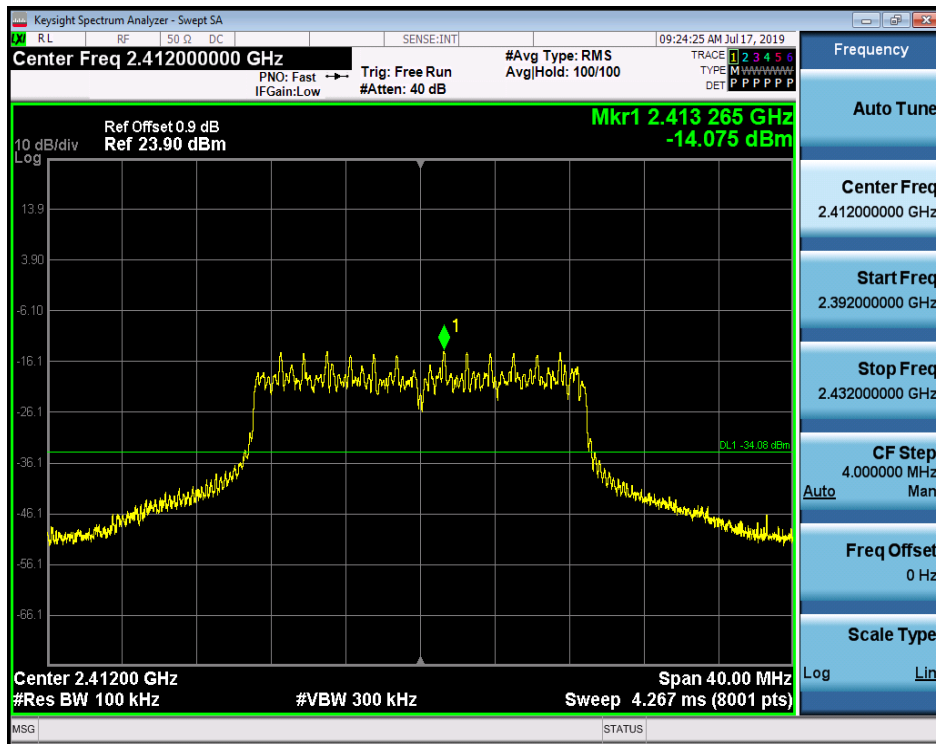
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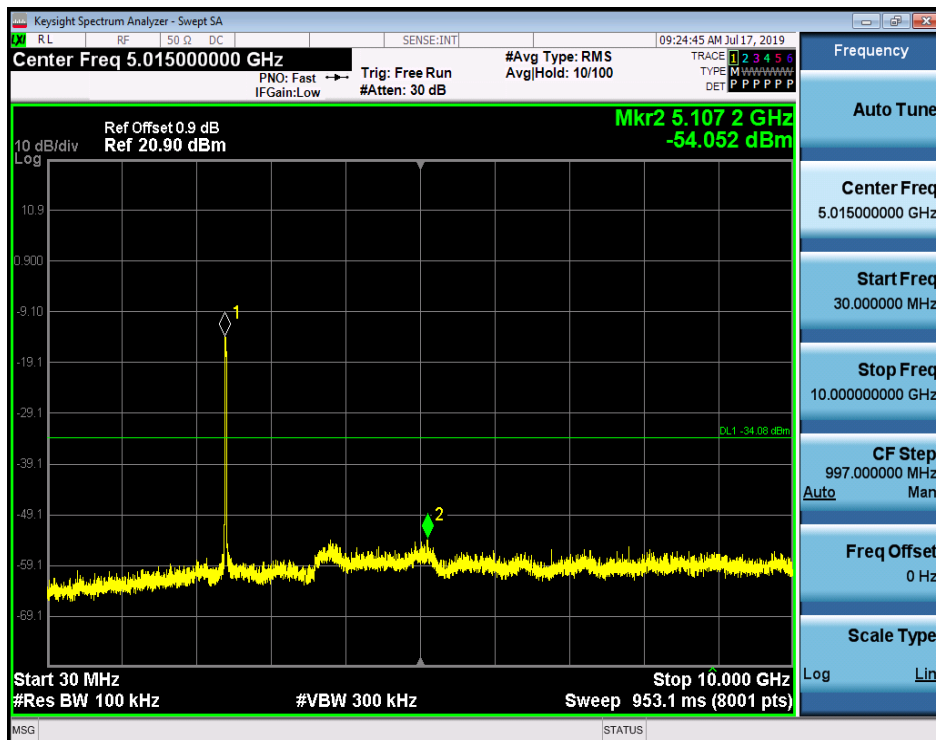
TEST PLOT

RF Conducted Spurious Emissions_OFDM_2412_Ant2

Pref



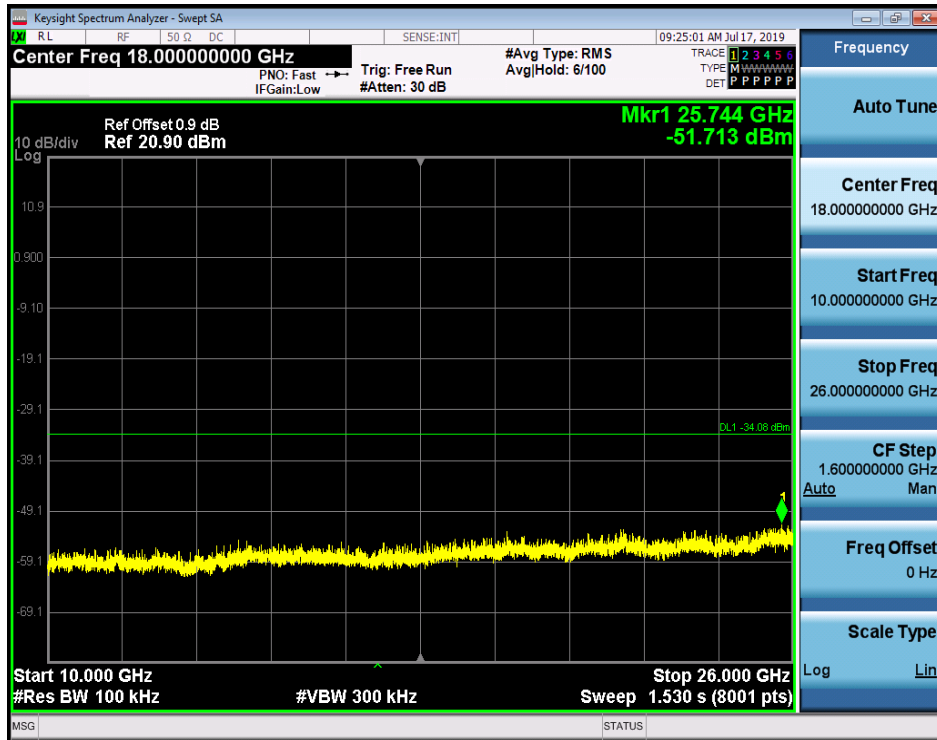
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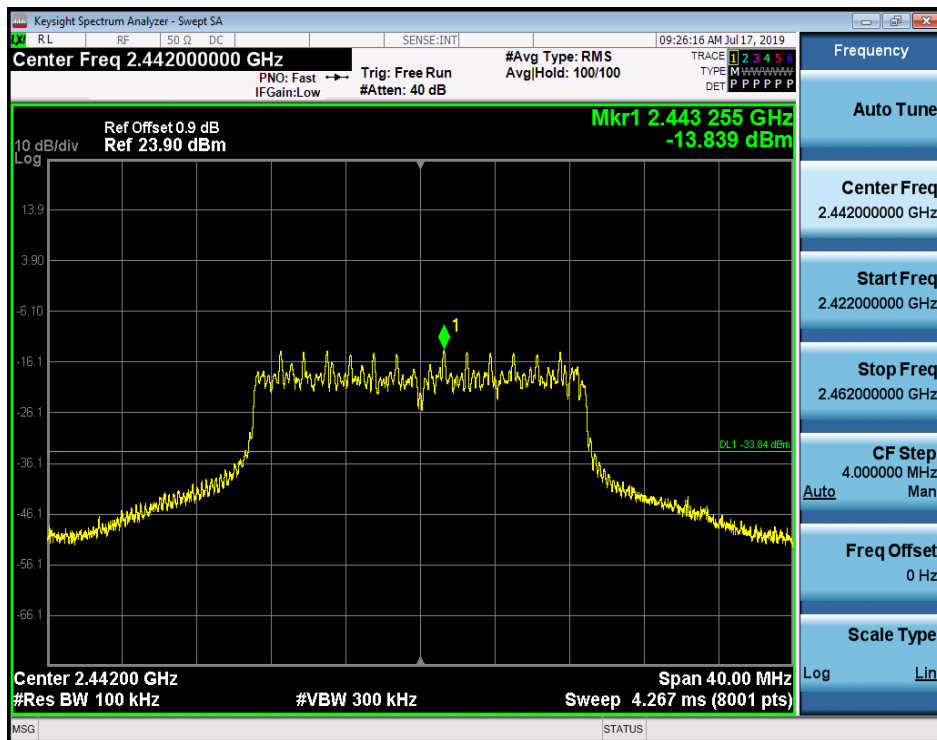
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CSE_2



RF Conducted Spurious Emissions_OFDM_2442_Ant2

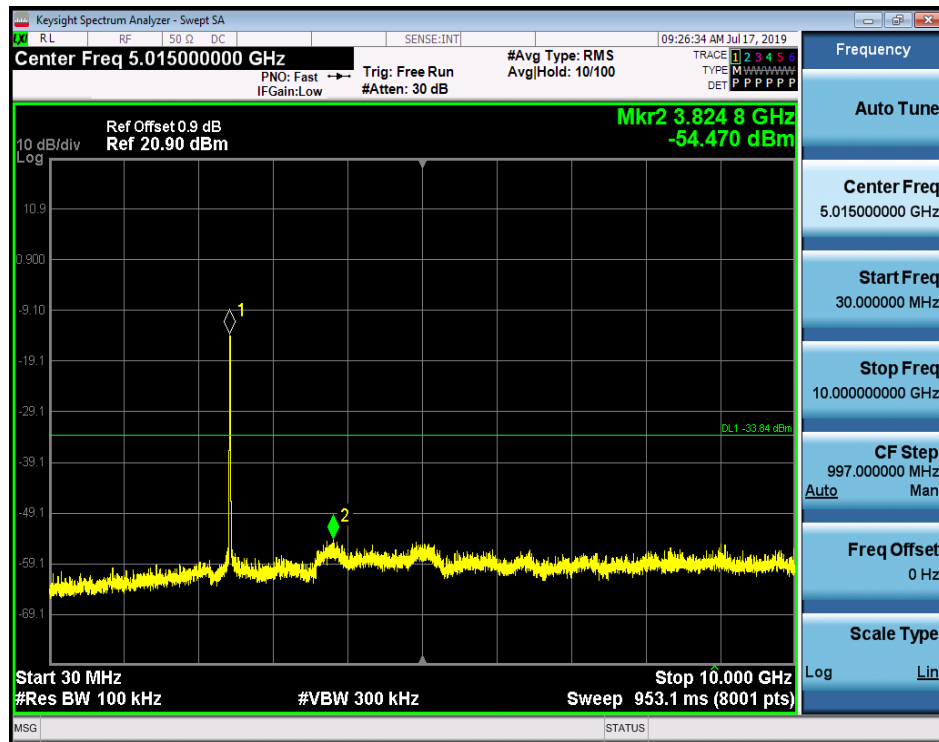
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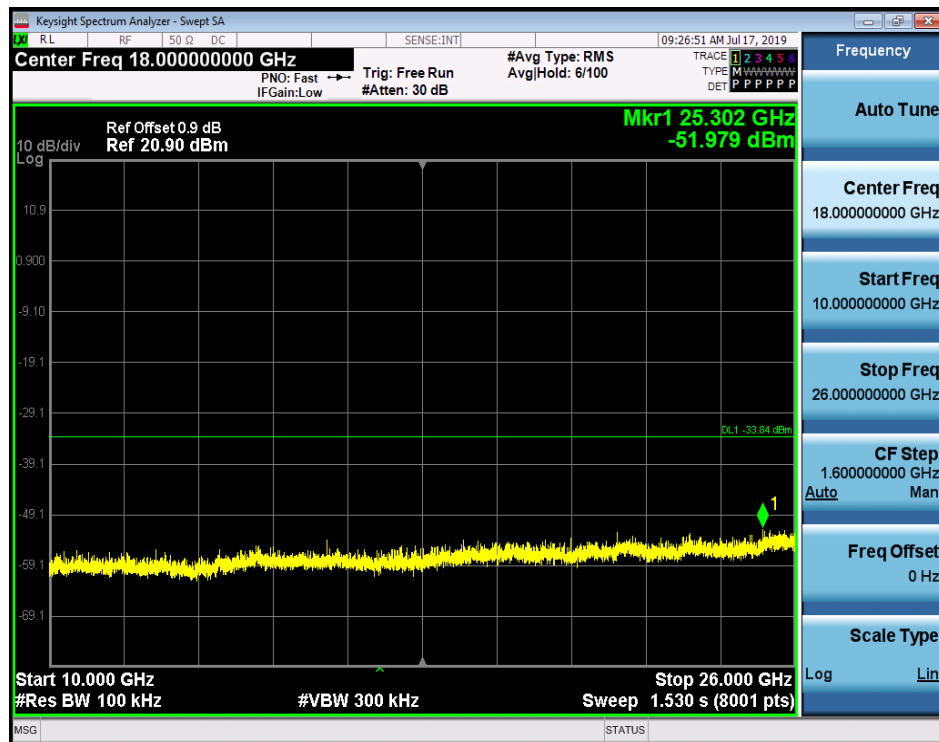
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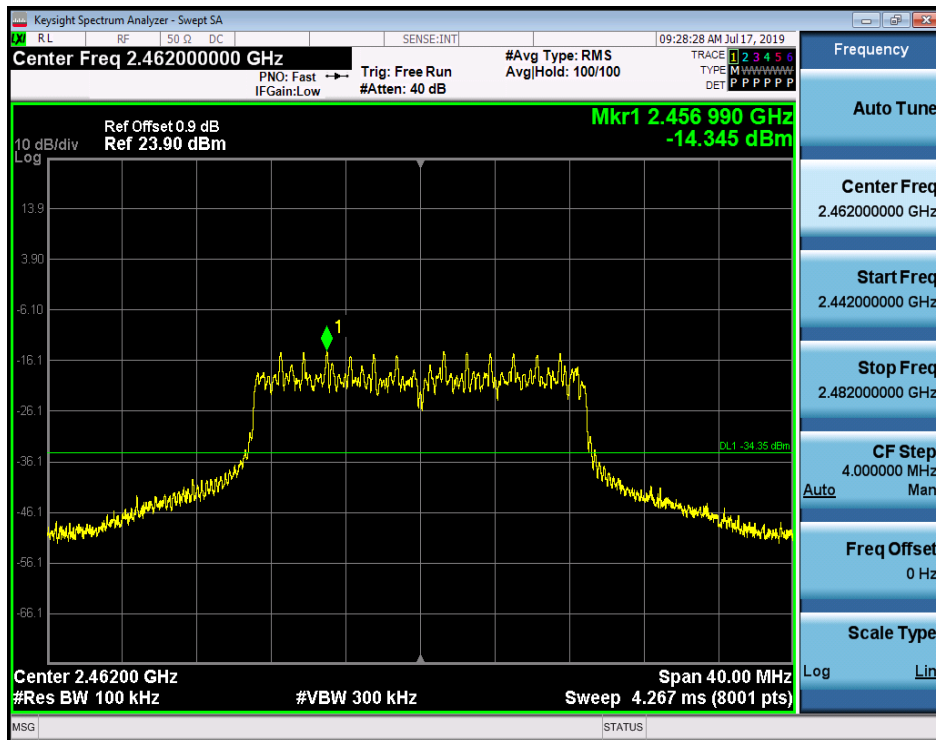


CSE_2

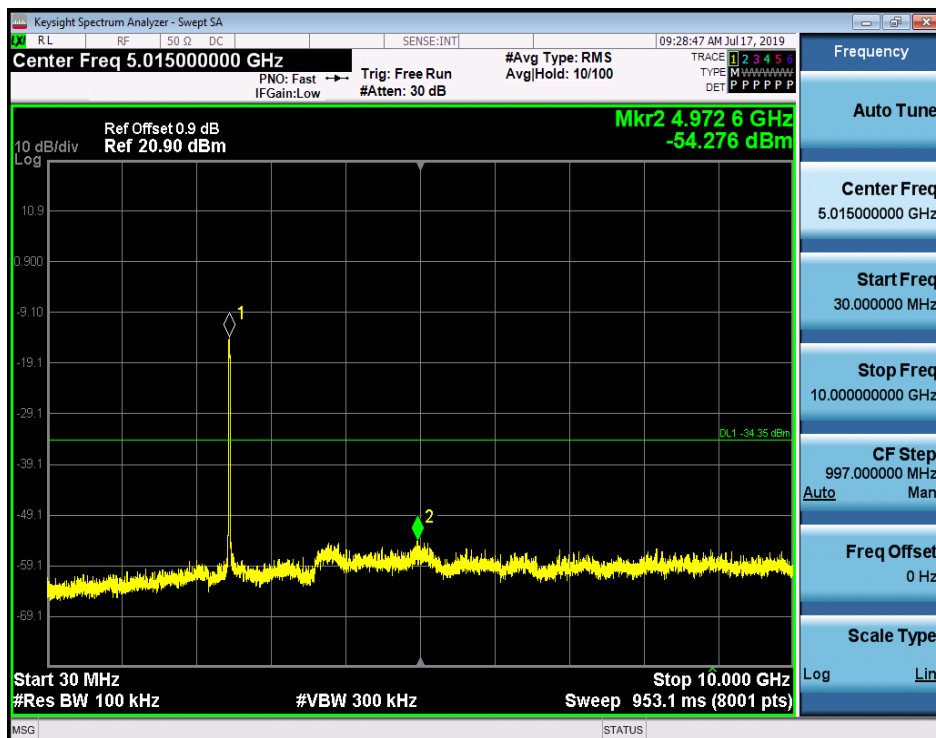


RF Conducted Spurious Emissions_OFDM_2462_Ant2

Pref



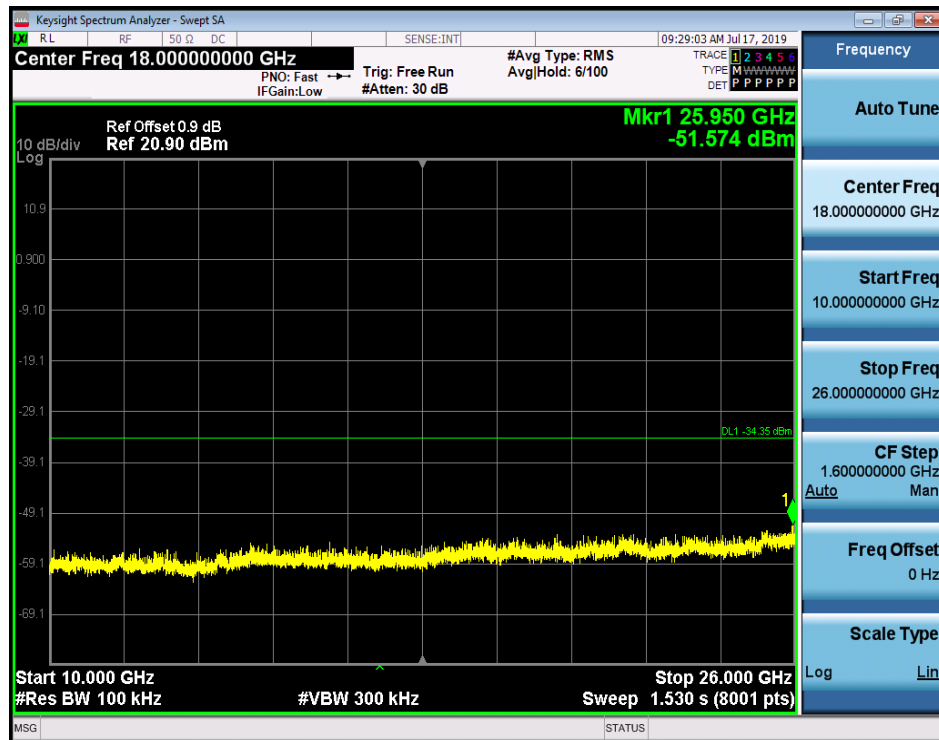
CSE_1



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--End of Report--



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