

## **TEST REPORT**

**Application No.:** HKEM1912001228AT  
**Applicant:** VTech Telecommunications Ltd  
**Address of Applicant:** 23/F., Tai Ping Ind Center Block 1, 57 Ting Kok Rd Tai Po NT Hong Kong  
**Manufacturer:** VTech Telecommunications Ltd  
**Address of Manufacturer:** 23/F., Tai Ping Ind Center Block 1, 57 Ting Kok Rd Tai Po NT Hong Kong  
**Factory:** VTech (Dongguan) Telecommunications Limited.  
**Address of Factory:** VTech Science Park, Xia Ling Bei Management Zone, Liaobu, Dongguan, Guangdong, China

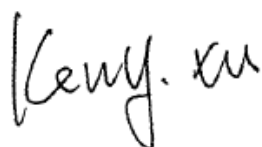
**Equipment Under Test (EUT):**

**EUT Name:** DECT Audio Baby monitor  
**Model No.:** DM1212 BU, DM1212-2 BU, DM1212-ab BU ♣  
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade mark:** Vtech  
**FCC ID:** EW780-1993-00  
**HVIN:** 35-201286BU  
**Standards:** 47 CFR Part 15, Subpart D  
**Date of Receipt:** 2019-12-12  
**Date of Test:** 2019-12-13 to 2020-01-02  
**Date of Issue:** 2020-01-03

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.





Keny Xu  
 EMC Laboratory Manager



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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020-01-06		Original

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Vincent Chen /Project Engineer</b>	
			
		<hr/> <b>Eric Fu /Reviewer</b>	



## 2 Test Summary

Test Item	FCC Test Requirement	Result
Antenna Requirement	15.317;15.203	Pass
Power Line Conducted Emission	15.207(a)	Pass
Digital Modulation Techniques	15.319(b)	Pass
Channel Frequencies	15.303	Pass
Automatic discontinuation of transmission	15.319(f)	Pass
Emission Bandwidth	15.323(a)	Pass
In-band emissions	15.323(d)	Pass
Out-of-band emissions	15.323(d)	Pass
Peak Transmit Power and Antenna Gain	15.319(c)(e); 15.31(e)	Pass
Power Spectral Density	15.319(d)	Pass
Carrier frequency stability	15.323(f)	Pass
Frame repetition stability	15.323(e)	Pass
Frame period and jitter	15.323(e)	Pass
Monitoring threshold, Least interfered channel	15.323(c)(2)(5)(9)	Pass
Monitoring of intended transmit window and maximum reaction time	15.323(c)(1)	Pass
Threshold monitoring bandwidth	15.323(c)(7)	Pass
Reaction time and monitoring interval	15.323(c)(1)(5)(7)	Pass
Access criteria test interval	15.323(c)(4)(6)	Pass
Access Criteria functional test	15.323(c)(4)(6)	Pass
Acknowledgements	15.323(c)(4)	Pass
Transmission duration	15.323(c)(3)	Pass
Dual access criteria	15.323(c)(10)	Pass
Alterative monitoring interval	15.323(c)(11)(12)	N/A <sup>1</sup>
Spurious Emissions (Radiated)	15.319(g); 15.209(a)	Pass

<sup>1</sup> The client declares that the tested equipment does not implement this provision

**Remark:**

Model No.: DM1212 BU, DM1212-2 BU, DM1212-ab BU

Only the model DM1212 BU was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on color and model No. and others as below:

a=any alphanumeric character or blank is presenting number of parent unit.

b = any alphanumeric character or blank is presenting color of enclosure.



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### 3 Contents

	Page
1 COVER PAGE .....	1
2 TEST SUMMARY .....	3
3 CONTENTS .....	4
4 GENERAL INFORMATION .....	5
4.1 DETAILS OF E.U.T. ....	5
4.2 TEST ENVIRONMENT AND MODE .....	5
4.3 DESCRIPTION OF SUPPORT UNITS .....	6
4.4 MEASUREMENT UNCERTAINTY .....	6
4.5 TEST LOCATION .....	7
4.6 TEST FACILITY .....	7
4.7 DEVIATION FROM STANDARDS .....	7
4.8 ABNORMALITIES FROM STANDARD CONDITIONS .....	7
5 EQUIPMENT LIST .....	8
6 TEST RESULTS AND MEASUREMENT DATA .....	11
6.1 ANTENNA REQUIREMENT .....	11
6.2 DIGITAL MODULATION TECHNIQUES .....	11
6.3 AUTOMATIC DISCONTINUATION OF TRANSMISSION .....	12
6.4 CONDUCTED EMISSIONS .....	13
6.5 PEAK POWER OUTPUT .....	17
6.6 EMISSION BANDWIDTH B .....	22
6.7 POWER SPECTRAL DENSITY .....	27
6.8 IN-BAND UNWANTED EMISSIONS, CONDUCTED .....	32
6.9 OUT-OF-BAND EMISSIONS, CONDUCTED .....	37
6.10 CARRIER FREQUENCY STABILITY .....	48
6.11 FRAME REPETITION STABILITY .....	49
6.12 FRAME PERIOD AND JITTER .....	50
6.13 MONITORING THRESHOLD, LEAST INTERFERED CHANNEL .....	51
6.14 THRESHOLD MONITORING BANDWIDTH .....	53
6.15 REACTION TIME AND MONITORING INTERVAL .....	54
6.16 TIME AND SPECTRUM WINDOW ACCESS PROCEDURE .....	55
6.17 ACKNOWLEDGEMENTS AND TRANSMISSION DURATION .....	57
6.18 DUAL ACCESS CRITERIA CHECK .....	59
6.19 RADIATED SPURIOUS EMISSIONS .....	60
7 PHOTOGRAPHS .....	71
7.1 EUT TEST SETUP .....	71
7.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) .....	71



## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Adapter 1 model: S003AKU0600040 Input: AC 100-120V, 60Hz, 150mA Output: DC 6V, 400mA Adapter 2 model: VT05UUS06040 Input: AC 100-120V, 60Hz, 150mA Output: DC 6V, 400mA Both adapters are tested, only show the worst adapter's data in this report.
Frequency Range:	1921.536 to 1928.448 MHz
Number of Channels:	5 RF Channels, 5 × 12 = 60 TDMA Duplex Channels
Type of Modulation:	Digital (Gaussian Frequency Shift Keying)
Modulation Technique:	GFSK
Antenna Connector:	None
Antenna Gain:	0dBi
Number of Antennas:	2
Antenna Diversity Supported:	Yes
Hardware Version:	35-201313BU
Software Version:	B004B1103

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH4)	1921.536 MHz
The Middle channel(CH2)	1924.992 MHz
The Highest channel(CH0)	1928.448 MHz

### 4.2 Test Environment and Mode

Operating Environment:	
Temperature:	22.3 °C
Humidity:	53.2 % RH
Atmospheric Pressure:	1015 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.



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### 4.3 Description of Support Units

The EUT has been tested with associated equipment below:

Description	Manufacturer	Model No.	Serial No.
Audio Baby monitor	Vtech	DM1212 PU	NA

### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
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., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.6 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31
Digital Radiocommunication Tester	Rohde & Schwarz	CMD60	/	2019-09-24	2020-09-24

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Digital Radiocommunication Tester	Rohde & Schwarz	CMD60	/	2019-09-24	2020-09-24

Radiated Spurious Emission					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12





Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
Digital Radio communication Tester	Rohde & Schwarz	CMD60	/	2019-09-24	2020-09-24
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2019-09-24	2020-09-23
EXA Spectrum Analyzer	KEYSIGHT	N9010A	SEM004-12	2019-04-12	2020-04-11
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2019-04-25	2020-04-25
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2019-04-02	2020-04-01
Coaxial Cable	SGS	N/A	SEM031-01	2019-07-11	2020-07-10
Digital Radiocommunication Tester	Rohde & Schwarz	CMD60	/	2019-09-24	2020-09-24
Splitter	MACOM	2090-6214-00	SEL0226	2019-03-06	2020-03-06
Signal Generator	Agilent	N5173B	SEM006-05	2019-09-28	2020-09-27
Signal Generator	Rohde & Schwarz	SML02	SEM006-07	2019-09-24	2020-09-23
Signal Generator	Rohde & Schwarz	SMB100A	SEM006-11	2019-04-01	2020-03-31
Signal Generator	Agilent	N5171B	SEM006-13	2019-04-12	2020-04-11



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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## 6 Test results and Measurement Data

### 6.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15.317, 15.203
15.203 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.	
<b>EUT Antenna:</b>	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.	

### 6.2 Digital Modulation Techniques

<b>Standard requirement:</b>	47 CFR Part 15.319(b)
Requirement: All transmissions must use only digital modulation techniques.	
The EUT uses Multi Carrier / Time Division Multiple Access / Time Division Duplex and Digital GFSK modulation. For further details see the operational description provided by the applicant.	



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### 6.3 Automatic discontinuation of transmission

Test Requirement:	47 CFR Part 15.319(f)
Test Method:	Declared by manufacture
Requirement:	The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.
Test Results:	Pass

The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

Number	Test	EUT Reaction	Verdict
1	Power removed from EUT	NA	Pass
2	Switch Off EUT	NA	Pass
3	Hook-On by EUT	A	Pass
4	Power Removed from Companion Device	NA	Pass
5	Switch Off Companion Device	C	Pass
6	Hook-On by Companion Device	C	Pass

A - Connection breakdown, Cease of all transmissions

B - Connection breakdown, EUT transmits control and signaling information

C - Connection breakdown, Companion Device transmits control and signaling information

N/A - Not Applicable (EUT/Companion Device does not have On/Off switch and cannot perform Hook-On)

Note: For more information please refer to declaration letter.

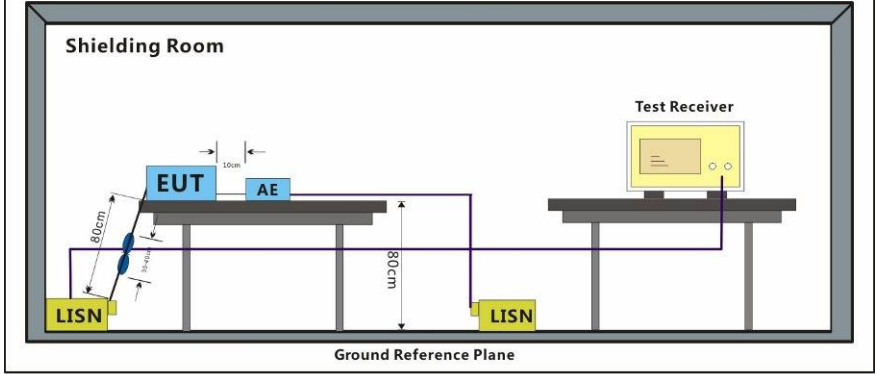


### 6.4 Conducted Emissions

Test Requirement:	47 CFR Part 15.207		
Test Method:	ANSI C63.4: 2014		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</li> </ol> <p>Remark: LISN=Read Level+ Cable Loss+ LISN Factor</p>		





<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting mode</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

### Measurement Data

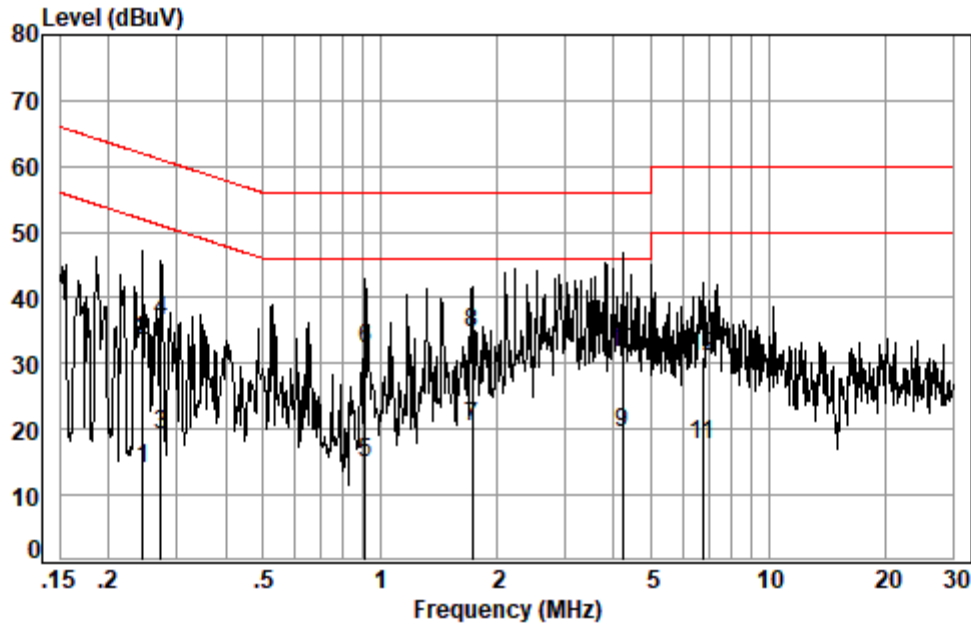
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Adapter 2 model: VT05UUS06040

Line: Live Line



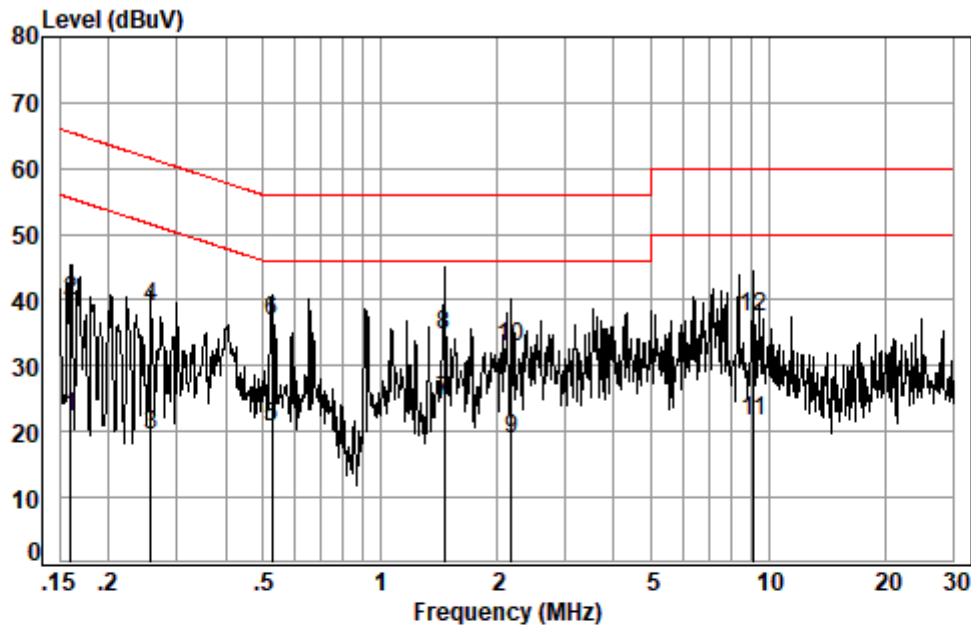
Site : Shielding Room  
 Condition: Line  
 Job No. : 01228AT  
 Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2455	0.03	9.59	4.39	14.01	51.91	-37.90	Average
2	0.2455	0.03	9.59	23.76	33.38	61.91	-28.53	QP
3	0.2730	0.04	9.59	9.56	19.19	51.03	-31.84	Average
4	0.2730	0.04	9.59	26.94	36.57	61.03	-24.46	QP
5	0.9136	0.09	9.60	5.10	14.79	46.00	-31.21	Average
6	0.9136	0.09	9.60	22.61	32.30	56.00	-23.70	QP
7	1.7253	0.14	9.61	10.48	20.23	46.00	-25.77	Average
8	1.7253	0.14	9.61	24.90	34.65	56.00	-21.35	QP
9	4.2018	0.16	9.65	9.54	19.35	46.00	-26.65	Average
10	4.2018	0.16	9.65	21.94	31.75	56.00	-24.25	QP
11	6.7691	0.17	9.72	7.81	17.70	50.00	-32.30	Average
12	6.7691	0.17	9.72	21.18	31.07	60.00	-28.93	QP



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Line: Neutral Line



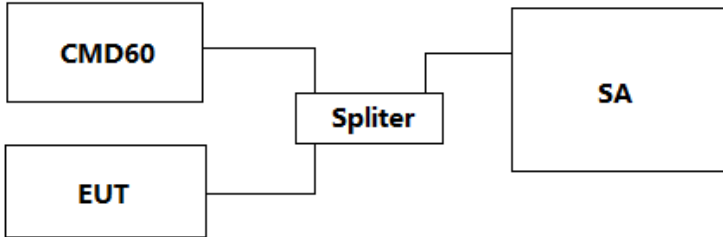
Site : Shielding Room  
 Condition: Neutral  
 Job No. : 01228AT  
 Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1598	0.01	9.55	12.78	22.34	55.47	-33.13	Average
2	0.1598	0.01	9.55	30.20	39.76	65.47	-25.71	QP
3	0.2575	0.03	9.54	9.75	19.32	51.51	-32.19	Average
4	0.2575	0.03	9.54	29.24	38.81	61.51	-22.70	QP
5	0.5265	0.06	9.54	11.15	20.75	46.00	-25.25	Average
6	0.5265	0.06	9.54	27.29	36.89	56.00	-19.11	QP
7	1.4640	0.13	9.56	14.93	24.62	46.00	-21.38	Average
8	1.4640	0.13	9.56	24.98	34.67	56.00	-21.33	QP
9	2.1783	0.16	9.56	9.10	18.82	46.00	-27.18	Average
10	2.1783	0.16	9.56	23.09	32.81	56.00	-23.19	QP
11	9.1557	0.17	9.80	11.58	21.55	50.00	-28.45	Average
12	9.1557	0.17	9.80	27.53	37.50	60.00	-22.50	QP



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### 6.5 Peak Power Output

Test Requirement:	47 CFR Part 15.319(c)(e), 15.31(e)
Test Method:	ANSI C63.17: 2013
Limit:	Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in Hertz. The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3dBi.
Test Procedure:	RBW: $\geq$ Emission bandwidth Video bandwidth: $\geq$ RBW Span: Zero Center frequency: Nominal center frequency of transmit carrier Amplitude scale: Log (linear may be used if analyzer has sufficient linear dynamic range and accuracy) Detection: Peak detection Trigger: Video Sweep rate: Sufficiently rapid to permit the transmit pulse to be resolved accurately
Test Setup:	 <pre> graph LR     CMD60[CMD60] --- Splitter[Splitter]     EUT[EUT] --- Splitter     Splitter --- SA[SA]             </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

ANT0:

Channel	Frequency (MHz)	Measured Peak Transmit Power (dBm)	Limit (dBm)	Results
Lowest	1921.536	20.25	20.84	Pass
Middle	1924.992	20.19	20.84	Pass
Highest	1928.448	20.26	20.84	Pass

ANT1:

Channel	Frequency (MHz)	Measured Peak Transmit Power (dBm)	Limit (dBm)	Results
Lowest	1921.536	20.73	20.84	Pass
Middle	1924.992	20.79	20.84	Pass
Highest	1928.448	20.80	20.84	Pass

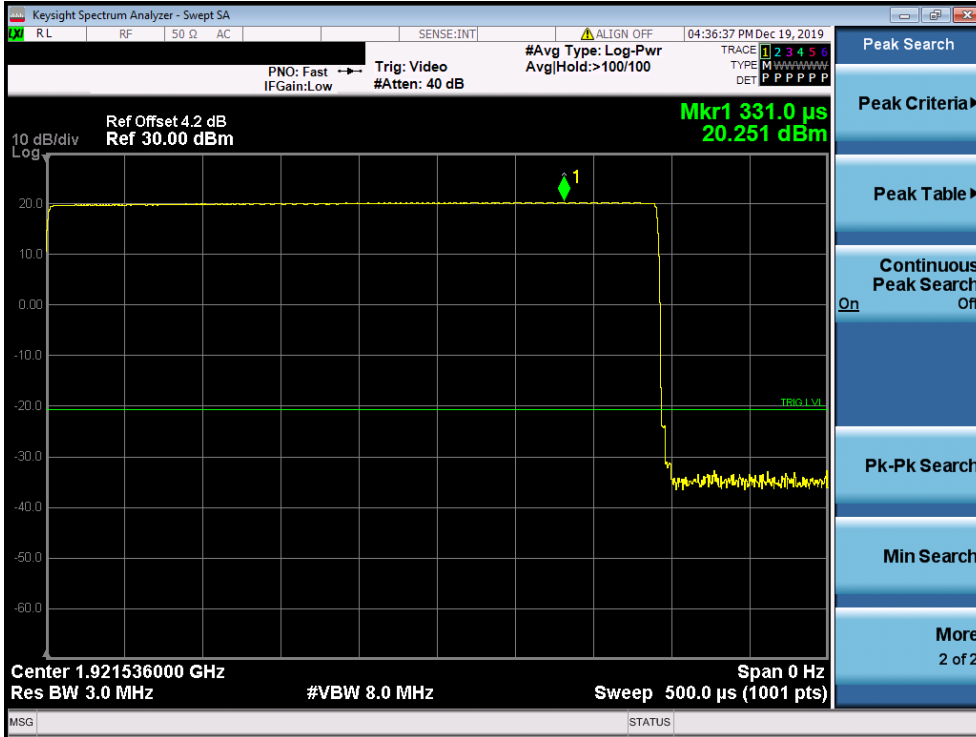
The plots of peak transmit power are saved as below.



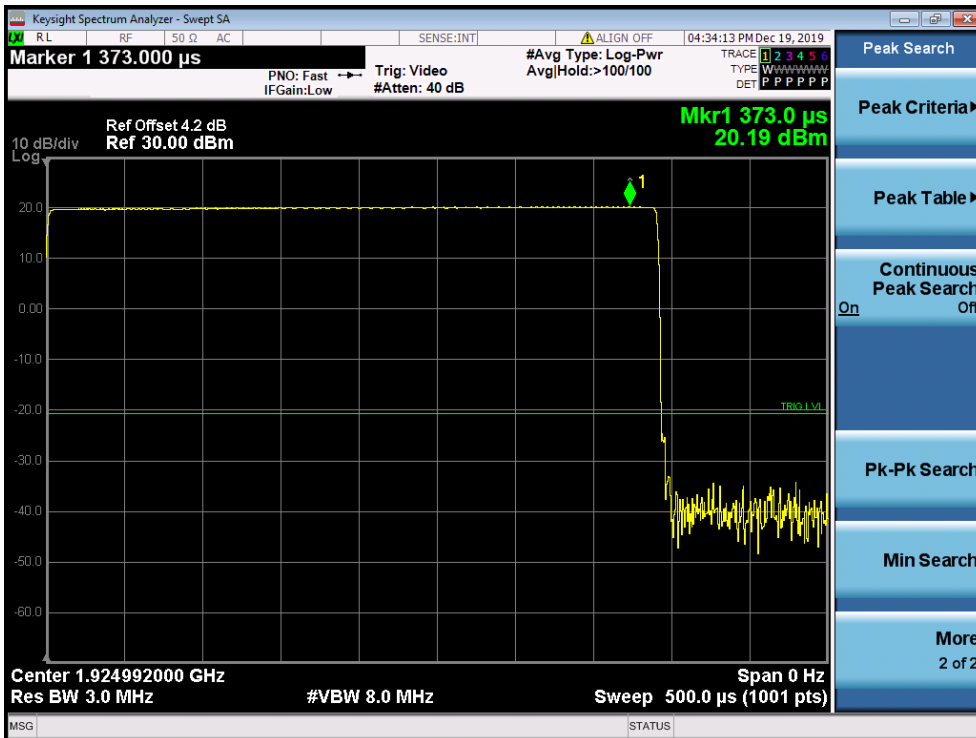
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Plots of peak transmit power: ANT0  
 Lowest channel, Traffic carrier

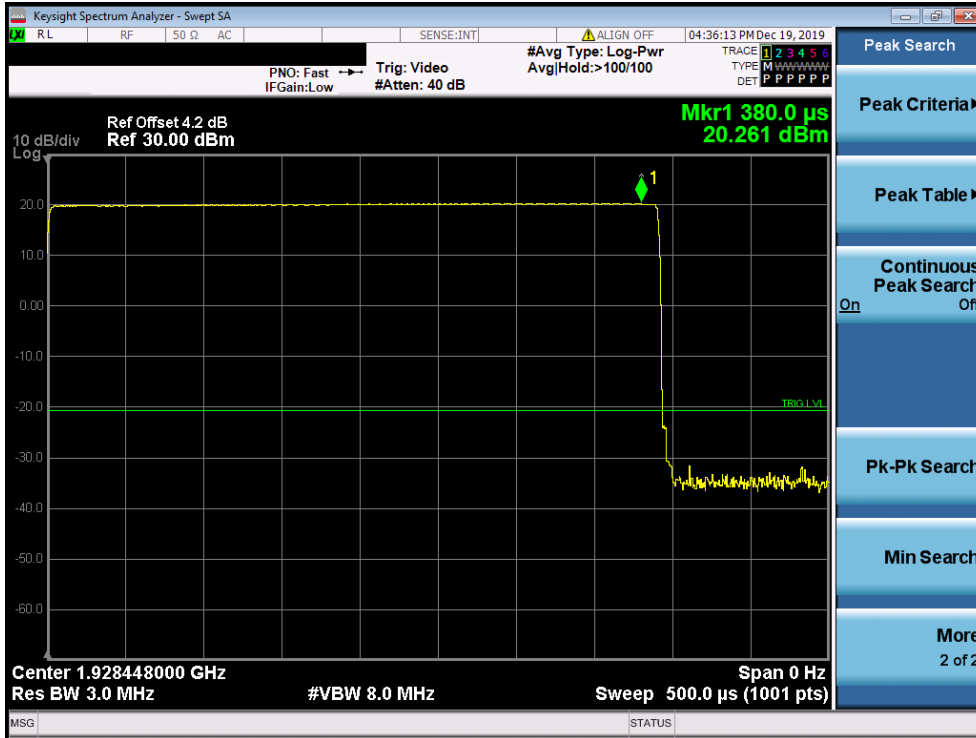


Middle channel, Traffic carrier



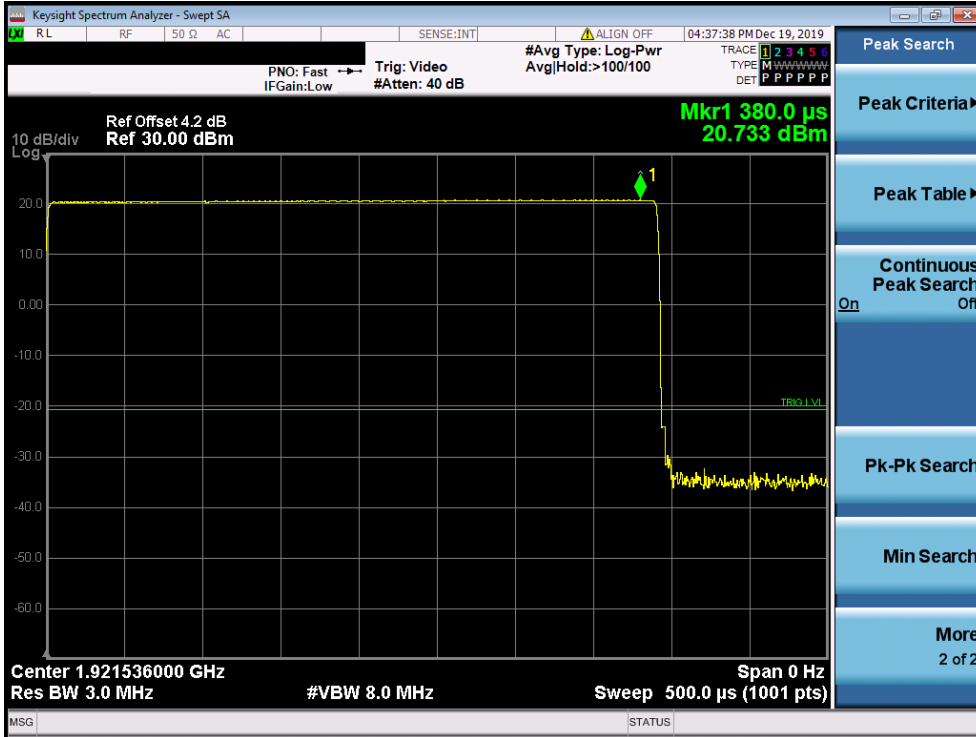


Highest channel, Traffic carrier

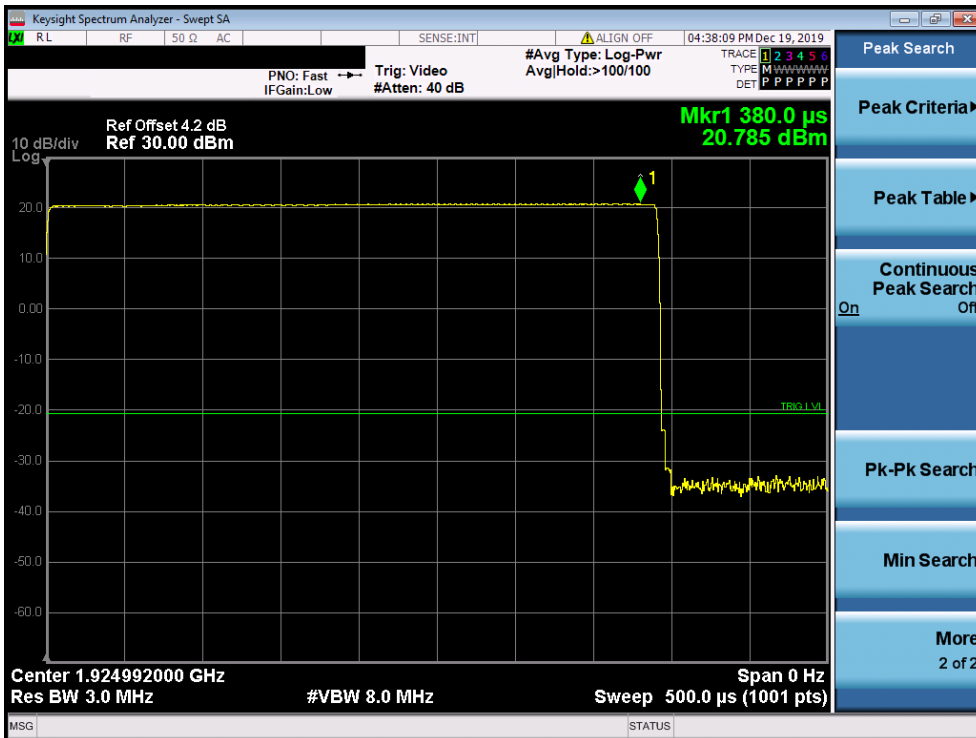


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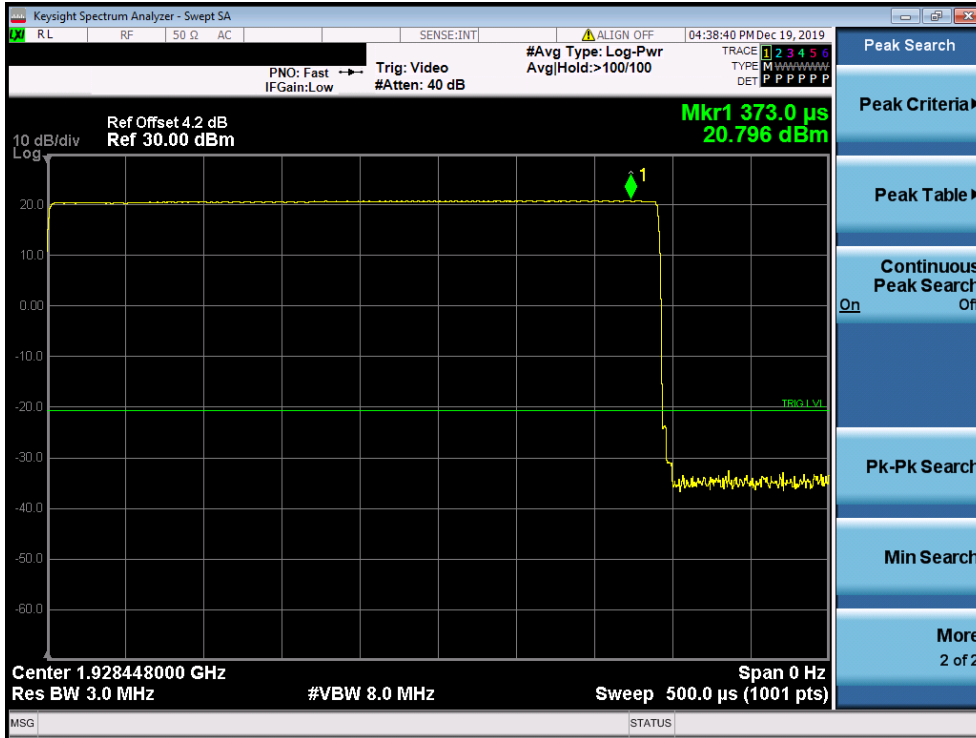
Plots of peak transmit power: ANT1  
 Lowest channel, Traffic carrier



Middle channel, Traffic carrier

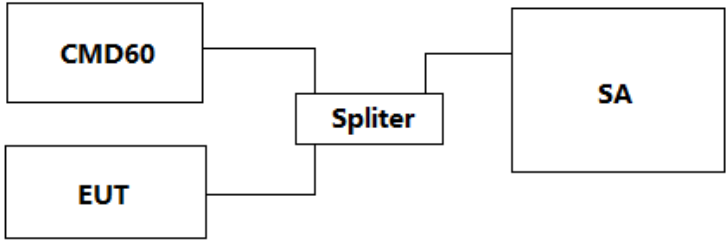


Highest channel, Traffic carrier



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**6.6 Emission Bandwidth B**

Test Requirement:	47 CFR Part 15.323(a)
Test Method:	ANSI C63.17: 2013
Limit:	The Emission Bandwidth B shall be larger than 50 kHz and less than 2.5 MHz. No requirements for 6 and 12 dB Bandwidth, these values are only used for testing Monitoring Bandwidth if the Simple Compliance test fails (ANSI C63.17, clause 7.4).
Test Procedure:	RBW: Approximately 1% of the emission bandwidth (a rough estimate may be obtained from peak power level measurement, or use manufacturer's declared value) Video bandwidth: $\geq 3 \times$ the RBW Center frequency: Nominal center frequency of channel Span: $\geq 2 \times$ the expected emission bandwidth Sweep time: Coupled to frequency span and RBW Amplitude scale: Log Detection: Peak detection with maximum hold enabled
Test Setup:	 <pre> graph LR     EUT[EUT] --- Splitter[Splitter]     Splitter --- SA[SA]     Splitter --- CMD60[CMD60]             </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

ANT0:

Channel	Frequency (MHz)	Emission Bandwidth B (MHz)
Lowest	1921.536	1.47
Middle	1924.992	1.47
Highest	1928.448	1.47

ANT1:

Channel	Frequency (MHz)	Emission Bandwidth B (MHz)
Lowest	1921.536	1.47
Middle	1924.992	1.47
Highest	1928.448	1.47



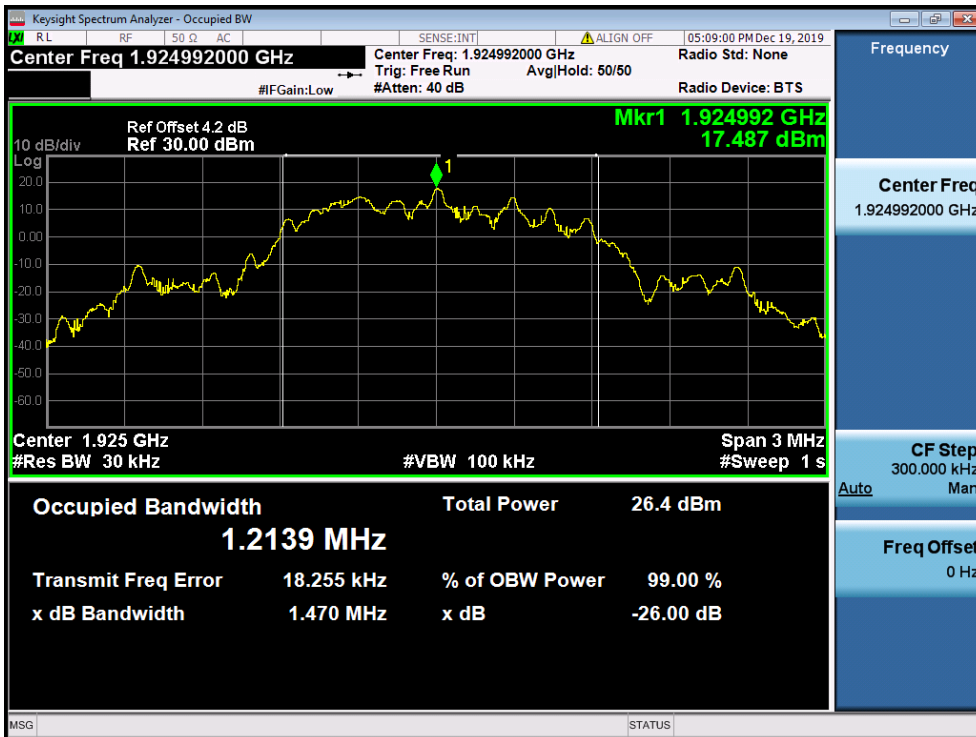
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Emission Bandwidth: ANTO

Lowest channel:

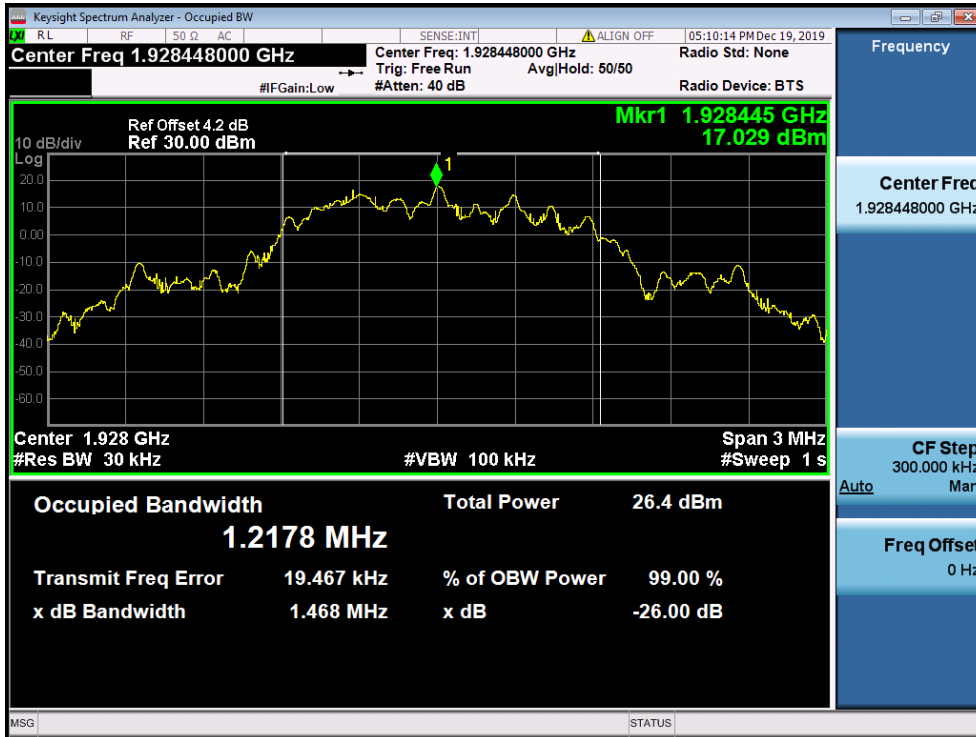


Middle channel:





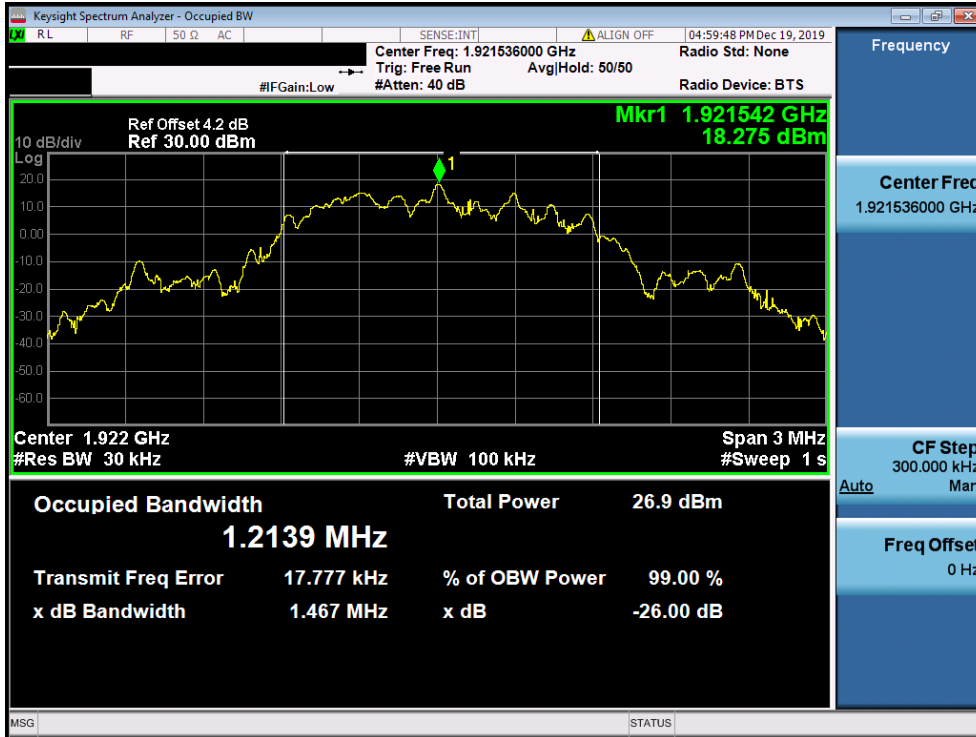
Highest channel:



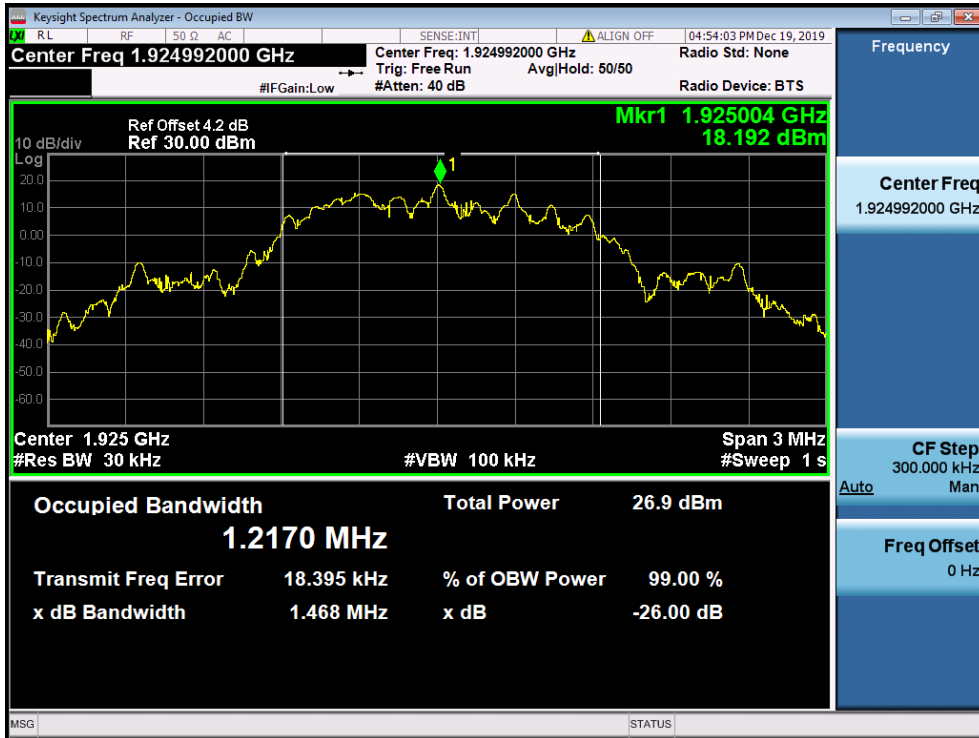
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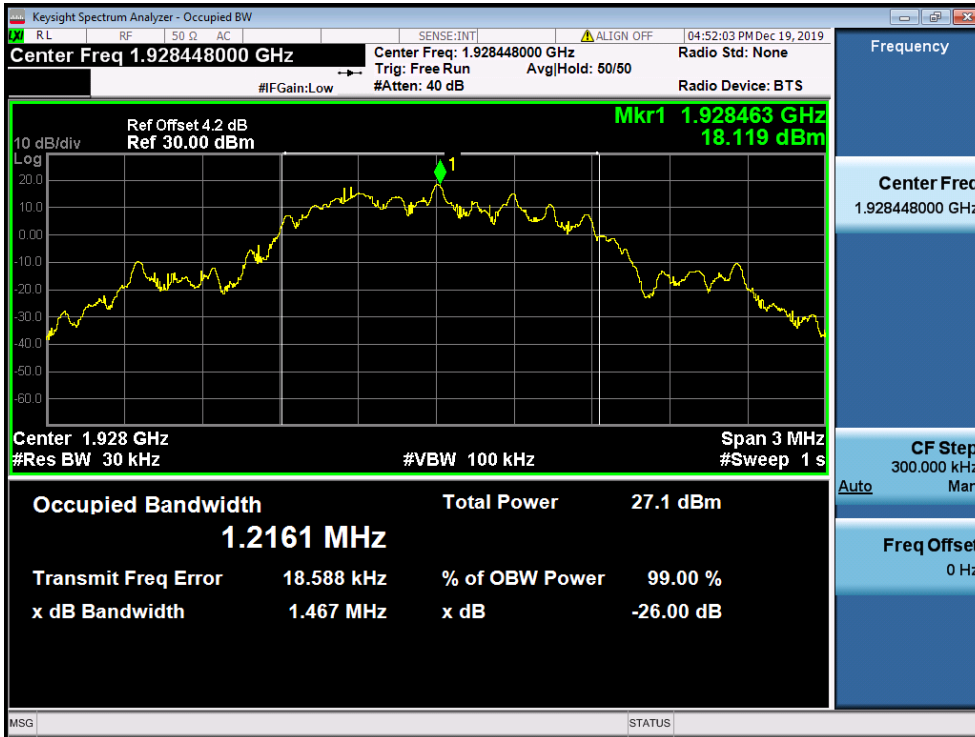
Emission Bandwidth: ANT1  
 Lowest channel:



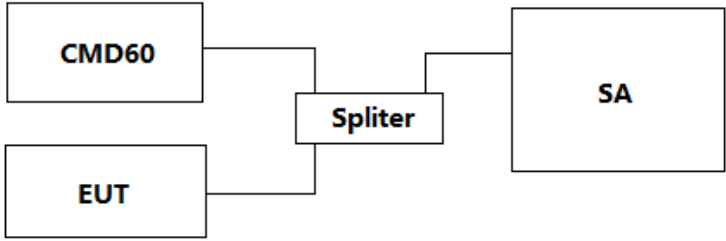
Middle channel:



Highest channel:



### 6.7 Power Spectral Density

Test Requirement:	47 CFR Part 15.319(d)
Test Method:	ANSI C63.17: 2013
Limit:	FCC: Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz
Test Procedure:	RBW: 3 kHz Video bandwidth: $\geq 3 \times$ RBW Span: Zero span at frequency with the maximum level (frequency determined in 6.1.3 if the same type of signal (continuous versus burst) was used in 6.1.3) Center frequency: Spectral peak as determined in 6.1.3 Sweep time: For burst signals, sufficient to include essentially all of the maximum length burst at the output of a 3 kHz filter (e.g., maximum input burst duration plus 600 $\mu$ s). For continuous signals, 20 ms. Amplitude scale: Log power Detection: Sample detection and averaged for a minimum of 100 sweeps Trigger: External or internal
Test Setup:	 <pre> graph LR     EUT[EUT] --- Splitter[Splitter]     CMD60[CMD60] --- Splitter     Splitter --- SA[SA]             </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

**Test Results:**

**ANT0:**

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Results
Lowest	1921.536	1.55	4.8	Pass
Highest	1928.448	1.02	4.8	Pass

**ANT1:**

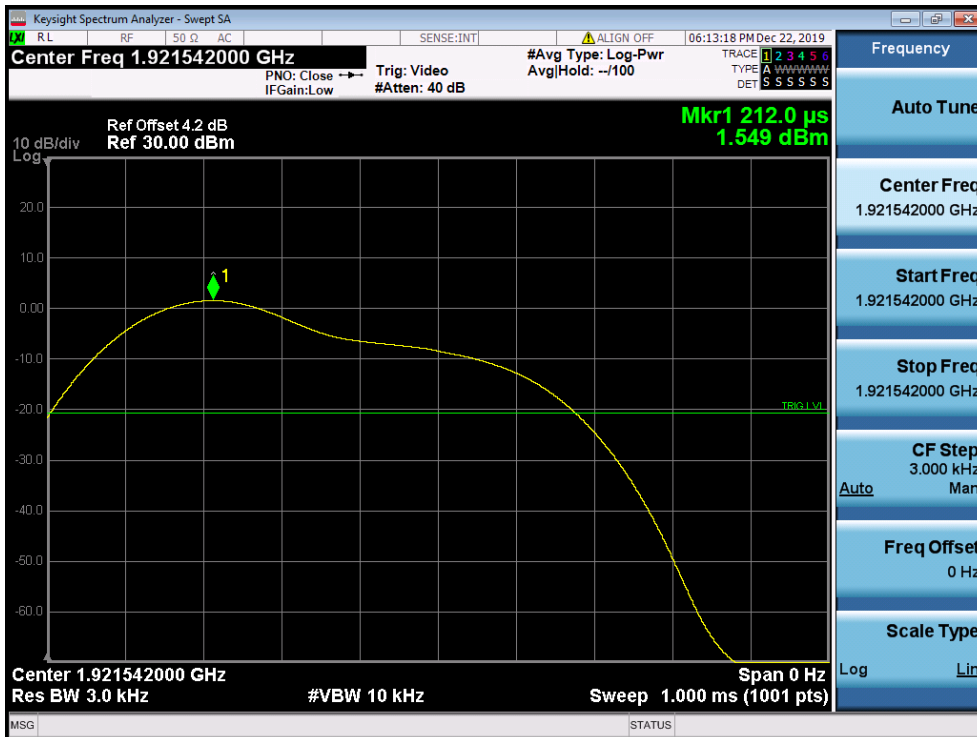
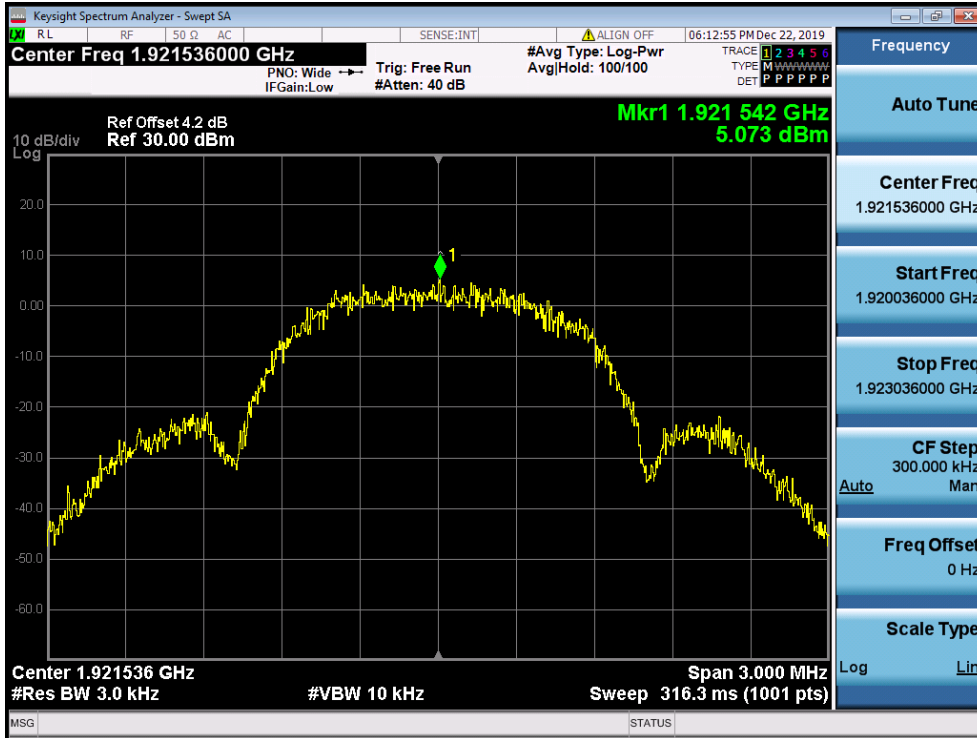
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Results
Lowest	1921.536	-6.80	4.8	Pass
Highest	1928.448	1.69	4.8	Pass



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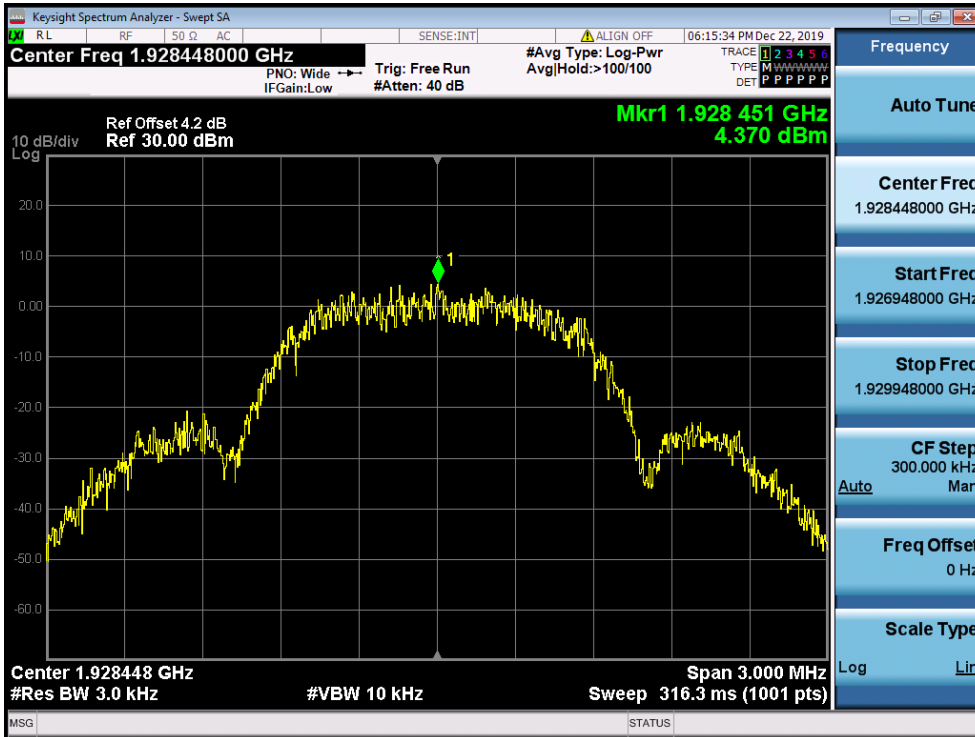
Power Spectral Density: ANTO  
 Lowest channel:



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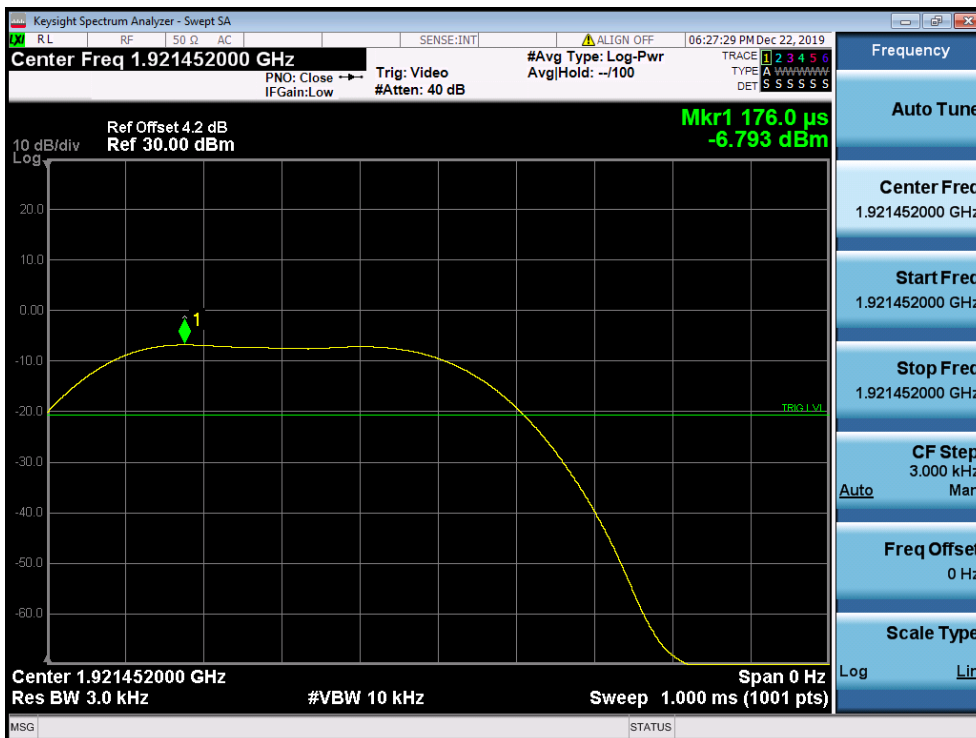
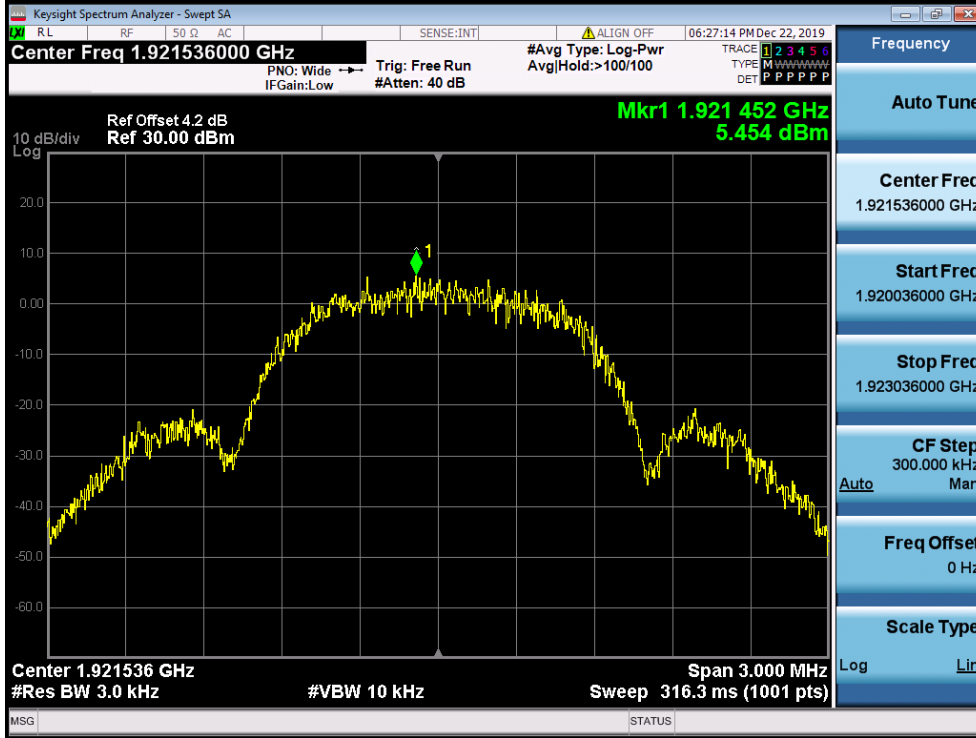
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Highest channel:

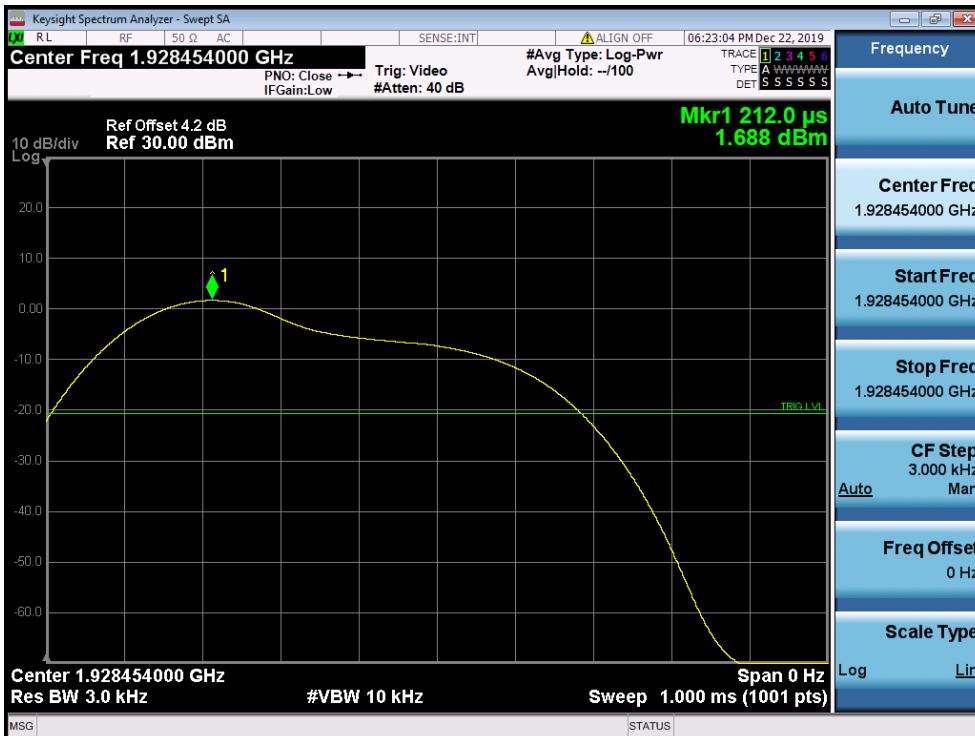
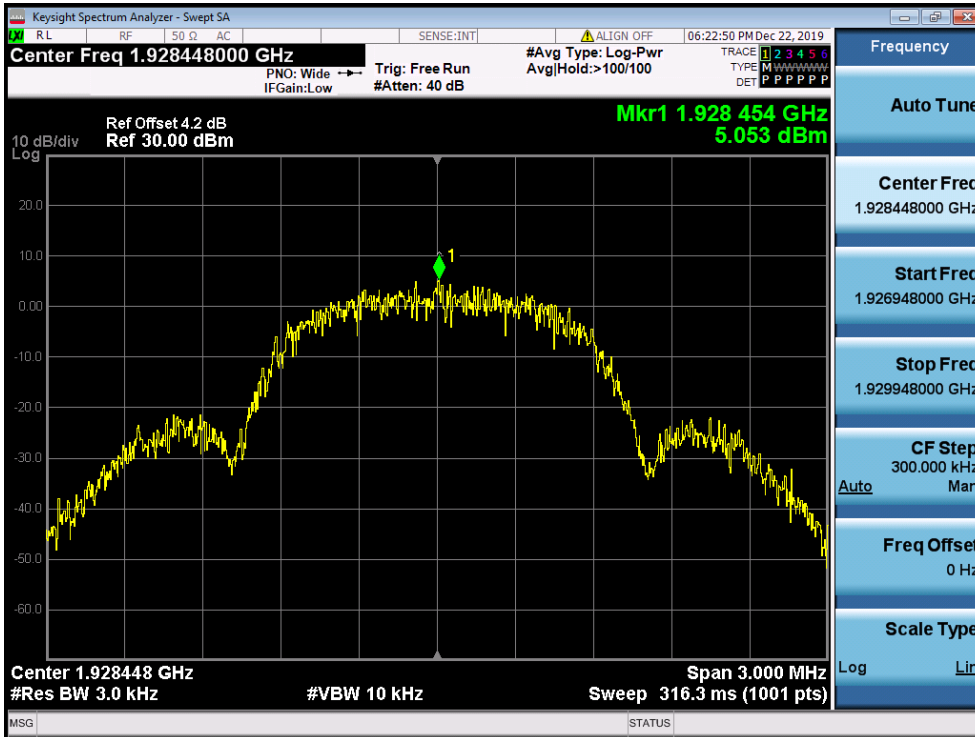


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Power Spectral Density: ANT1  
 Lowest channel:

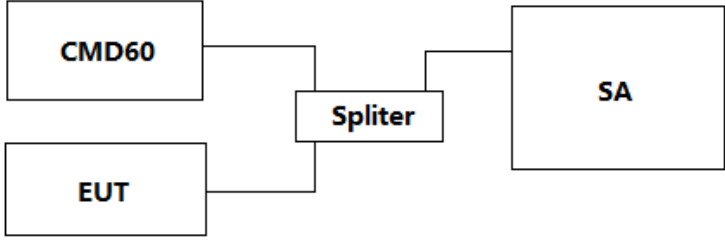


Highest channel:





### 6.8 In-Band Unwanted Emissions, Conducted

Test Requirement:	47 CFR Part 15.323(d)
Test Method:	ANSI C63.17: 2013
Limit:	B < f ≤ 2B : at least 30 dB below max. permitted peak power 2B < f ≤ 3B : at least 50 dB below max. permitted peak power 3B < f ≤ UPCS Band Edge : at least 60 dB below max. permitted peak power
Test Procedure:	RBW: Approximately 1% of the emission bandwidth (B) Video bandwidth: 3 × RBW Sweep time: The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts. Number of sweeps: Sufficient to stabilize the trace Amplitude scale: Log Detection: Peak detection and max hold enabled Span: Approximately equal to 3.5 B
Test Setup:	 <pre> graph LR     EUT[EUT] --- Splitter[Splitter]     CMD60[CMD60] --- Splitter     Splitter --- SA[SA]             </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

**Test Results:**  
**ANT0:**

Channel	Frequency (MHz)	Results
Lowest	1921.536	Pass
Middle	1924.992	Pass
Highest	1928.448	Pass

**ANT1:**

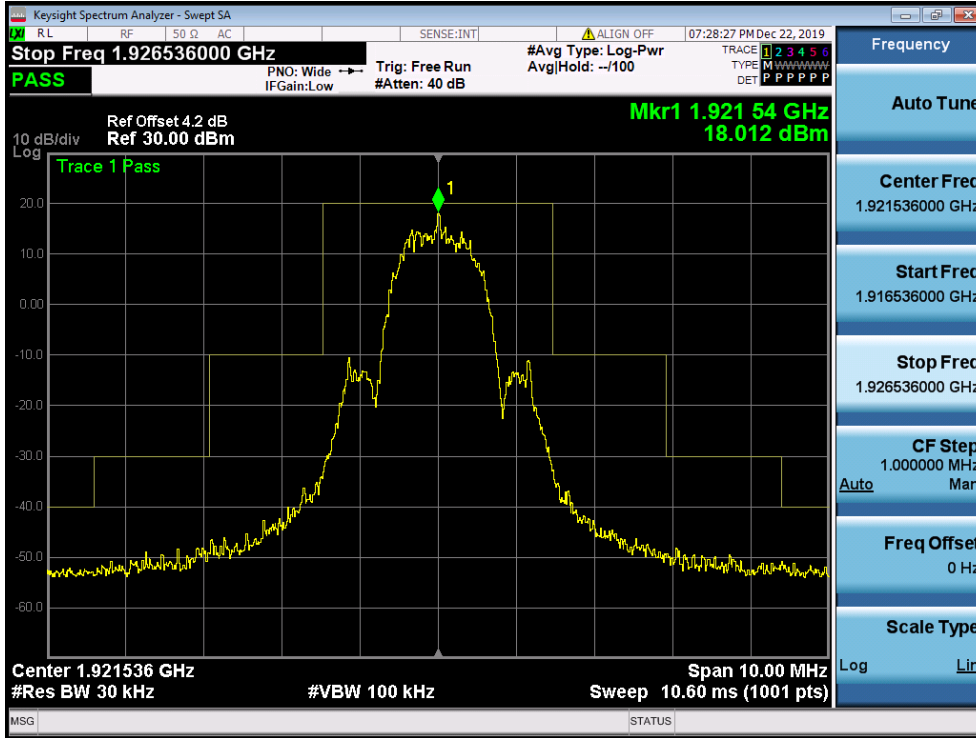
Channel	Frequency (MHz)	Results
Lowest	1921.536	Pass
Middle	1924.992	Pass
Highest	1928.448	Pass

The plots of the unwanted emission inside the sub-band are as below.

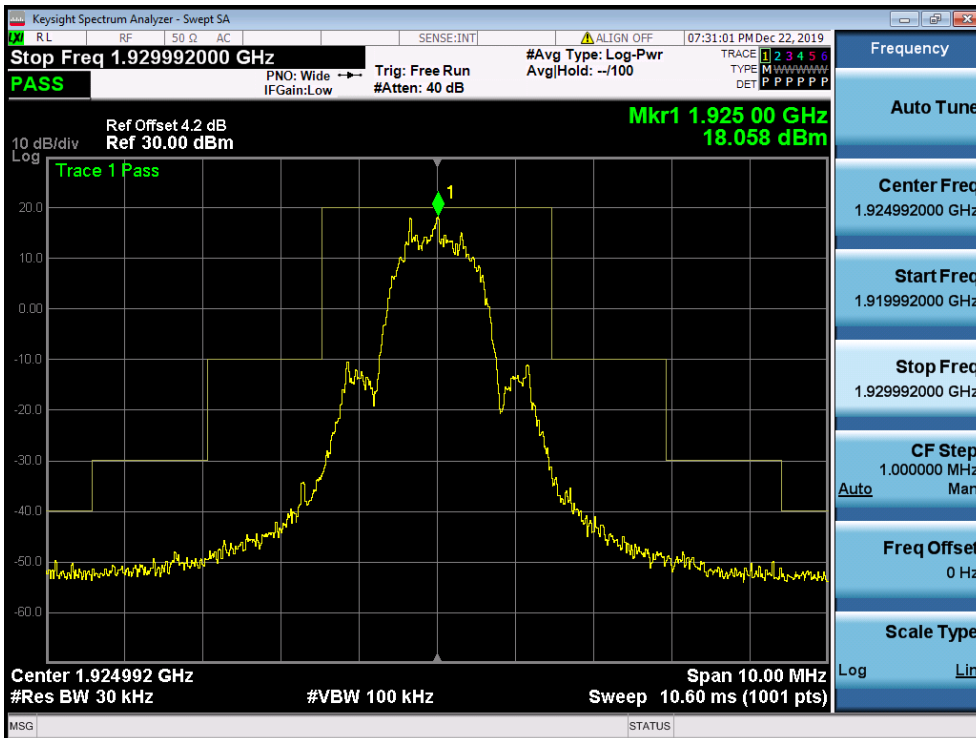




Test Plot of In-Band Unwanted Emissions: ANTO  
 Lowest channel:

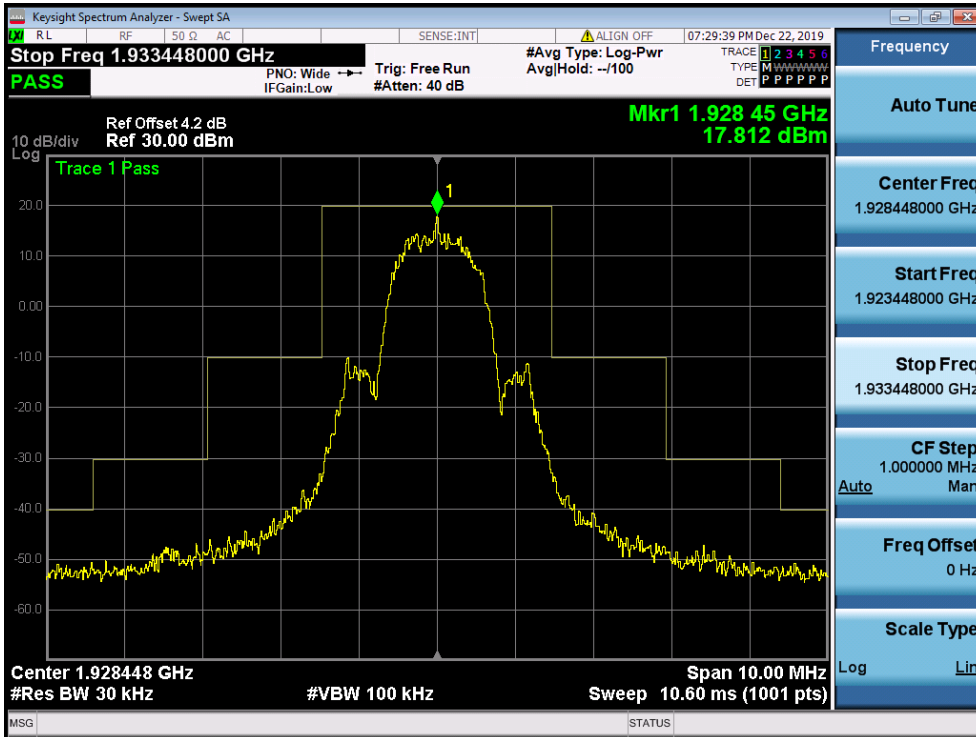


Middle channel:



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Highest channel:

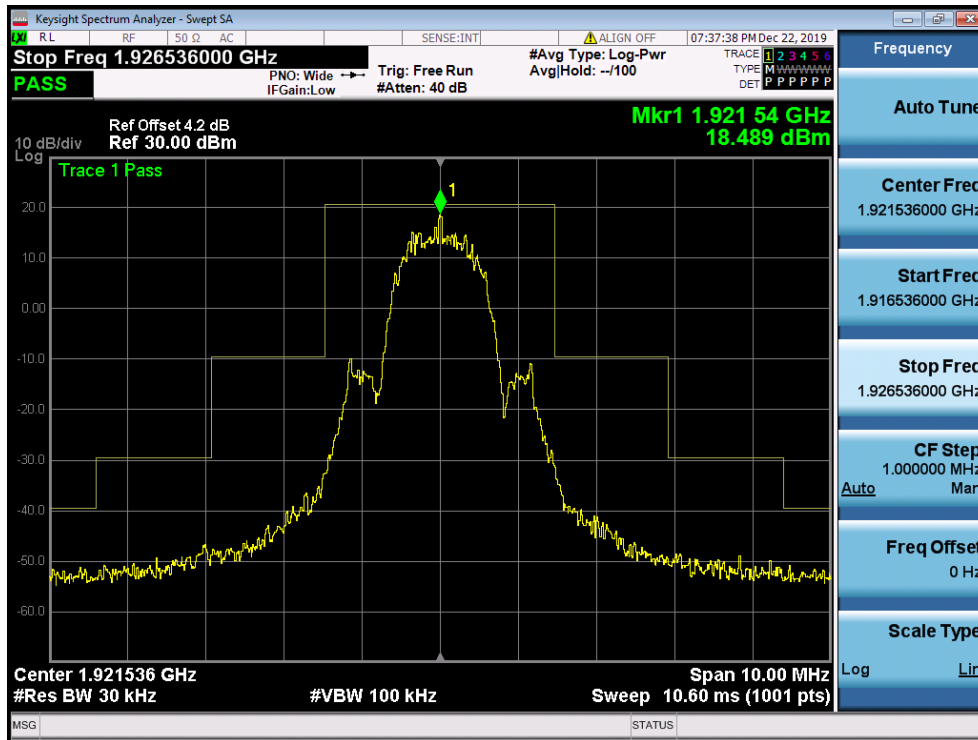


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 Shenzhen Branch (China) Calibration Laboratory

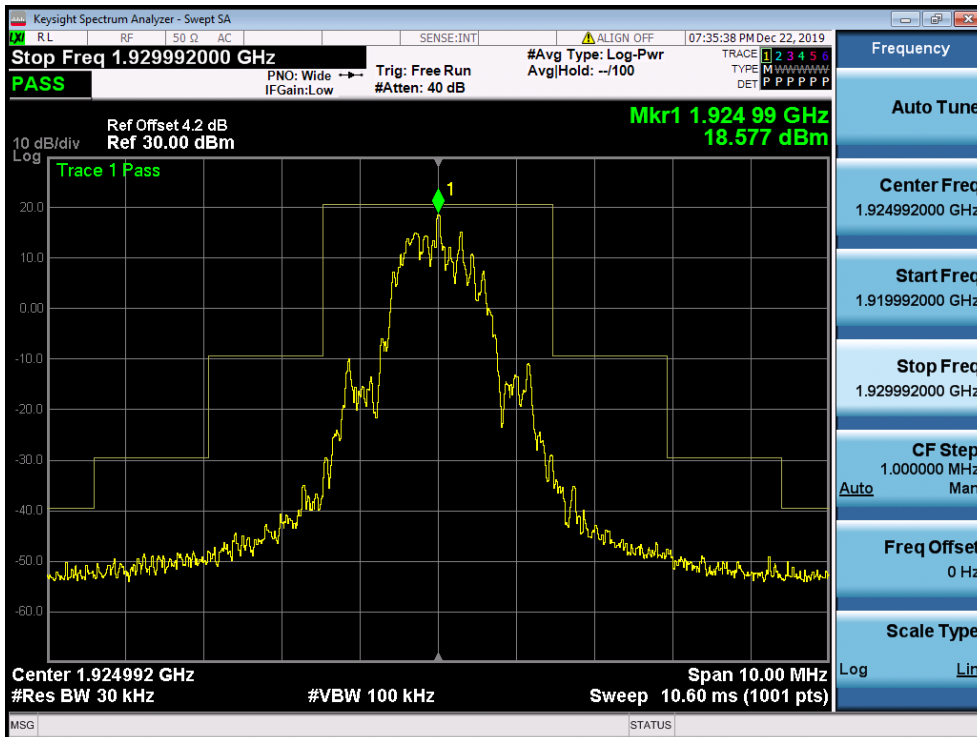
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Test Plot of In-Band Unwanted Emissions: ANT1  
 Lowest channel:

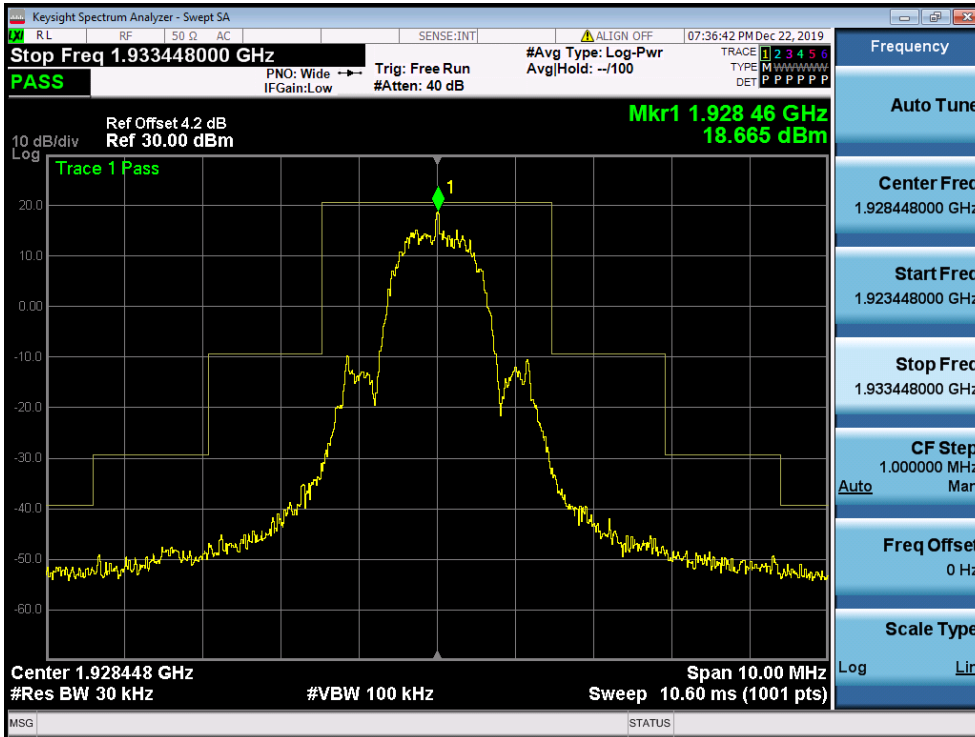


Middle channel:



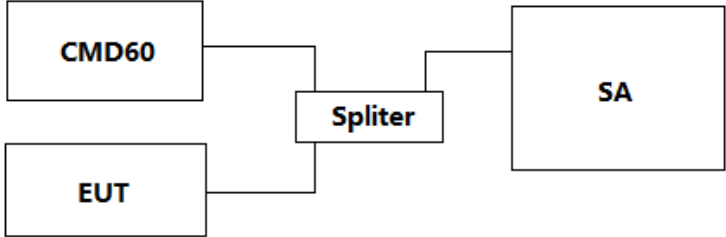
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Highest channel:





### 6.9 Out-of-band Emissions, Conducted

Test Requirement:	47 CFR Part 15.323(d)
Test Method:	ANSI C63.17: 2013
Limit:	$f \leq 1.25\text{MHz}$ outside UPCS band : $\leq -9.5\text{dBm}$ $1.25\text{MHz} \leq f \leq 2.5\text{MHz}$ outside UPCS band : $\leq -29.5\text{ dBm}$ $f \geq 2.5\text{MHz}$ outside UPCS band : $\leq -39.5\text{ dBm}$
Test Procedure:	RBW: Approximately 1% of the emission bandwidth (B) Video bandwidth: $3 \times \text{RBW}$ Sweep time: The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts. Number of sweeps: Sufficient to stabilize the trace Amplitude scale: Log Detection: Peak detection and max hold enabled Span: Approximately equal to 3.5 B
Test Setup:	 <pre> graph LR     EUT[EUT] --- Splitter[Splitter]     CMD60[CMD60] --- Splitter     Splitter --- SA[SA] </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

**Test Results:**  
**ANT0:**

Channel	Frequency (MHz)	Results
Lowest	1921.536	Pass
Middle	1924.992	Pass
Highest	1928.448	Pass

**ANT1:**

Channel	Frequency (MHz)	Results
Lowest	1921.536	Pass
Middle	1924.992	Pass
Highest	1928.448	Pass

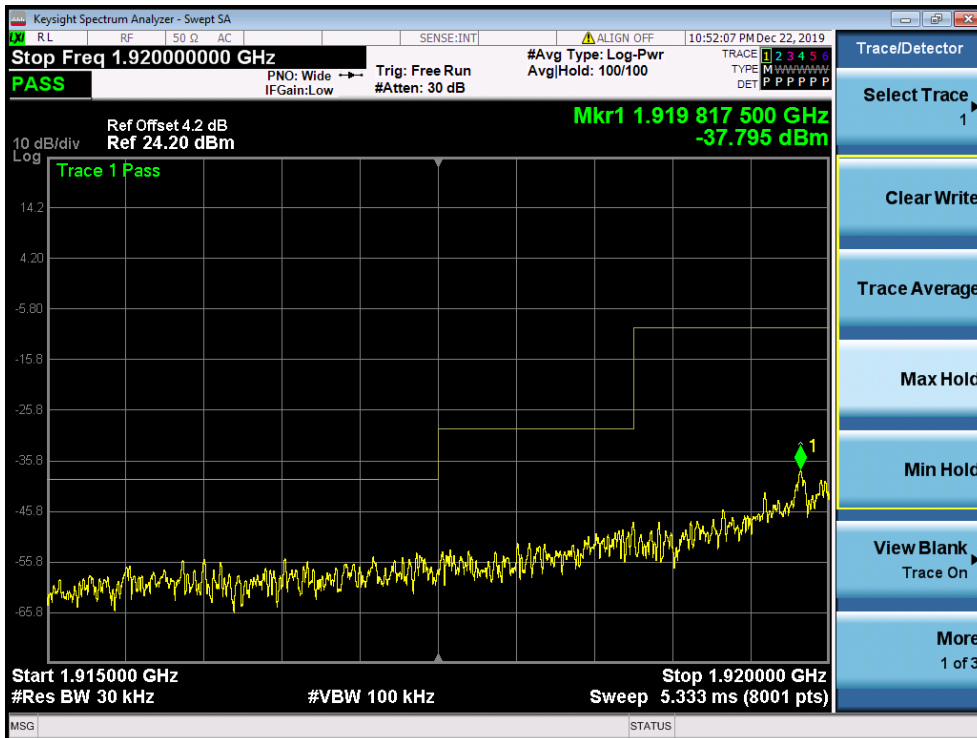
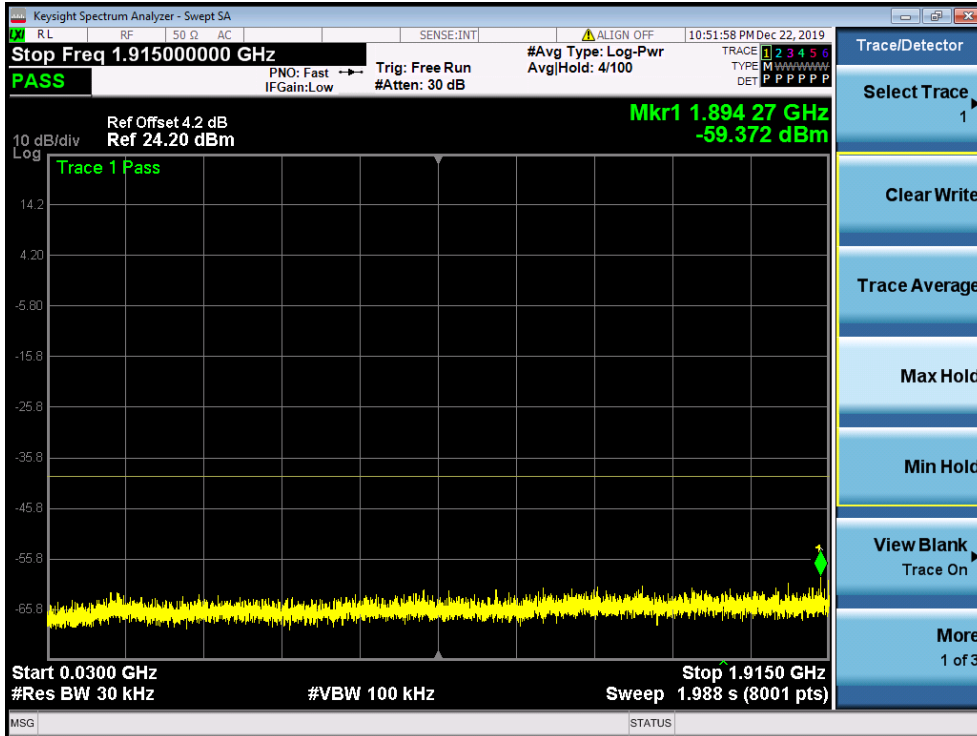
The plots of the unwanted emission inside the sub-band are as below.



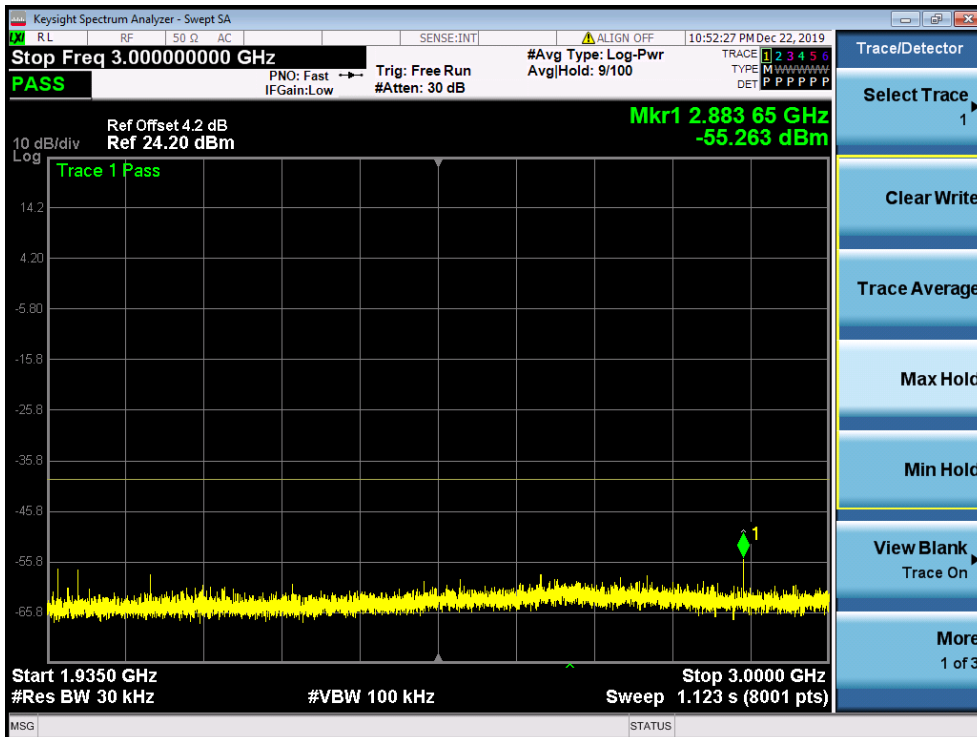
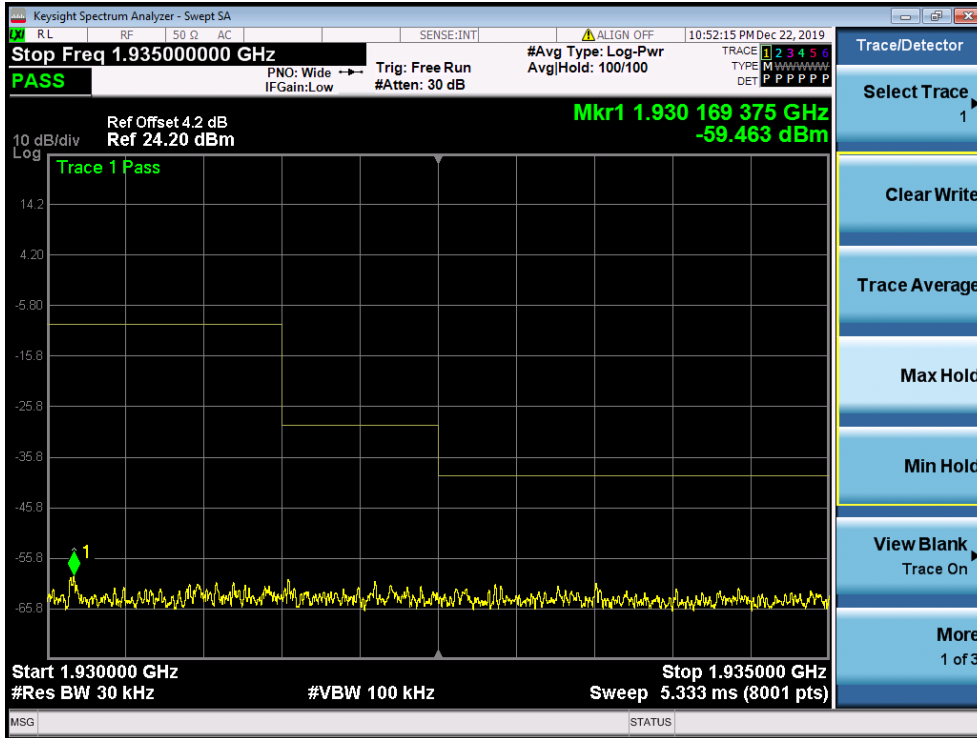


ANT0:

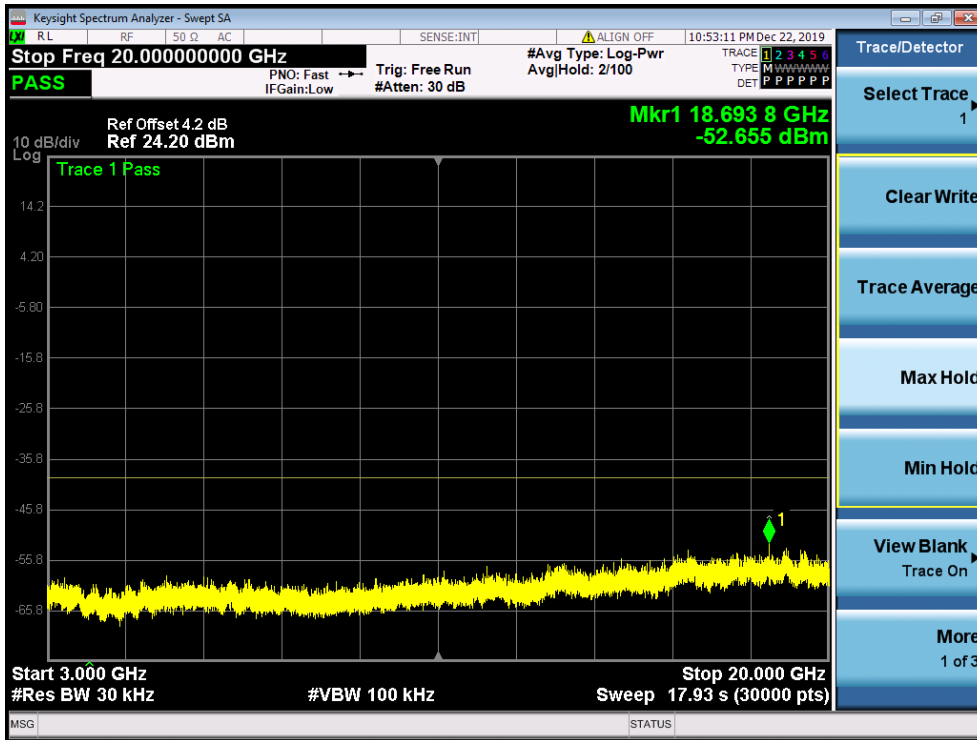
Test Plot of Out-of-Band Unwanted Emissions Lowest Channel:



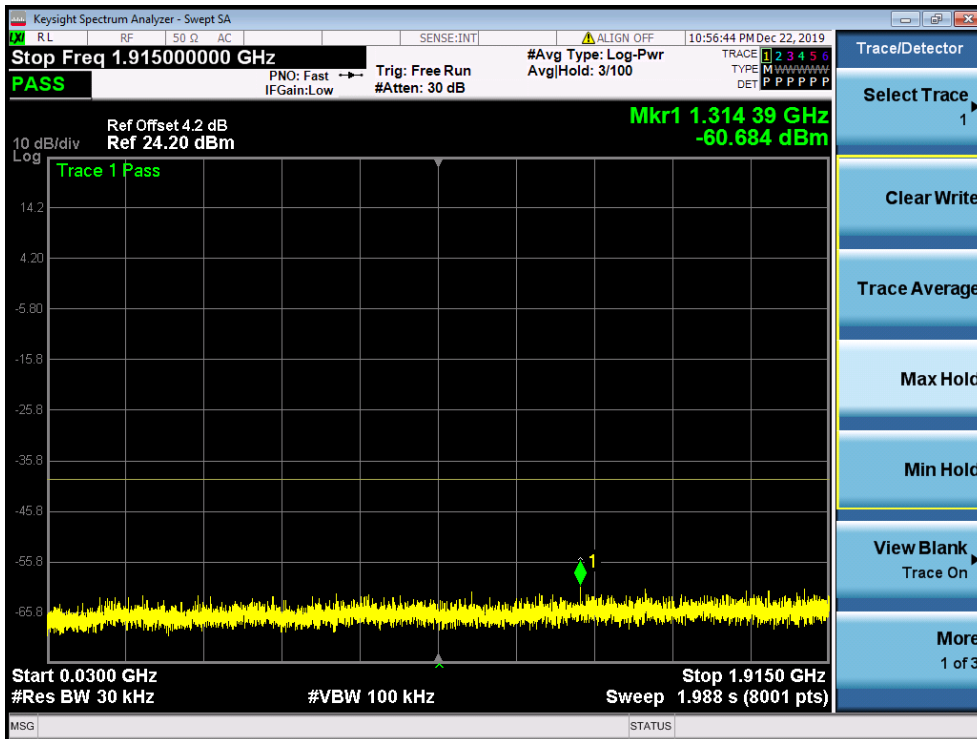
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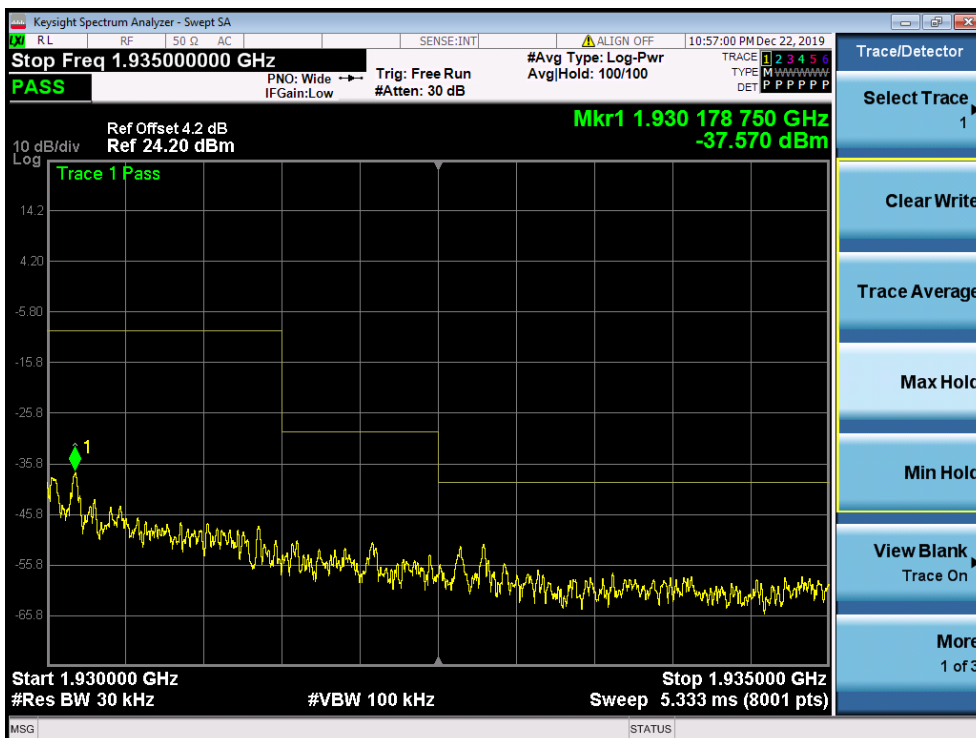
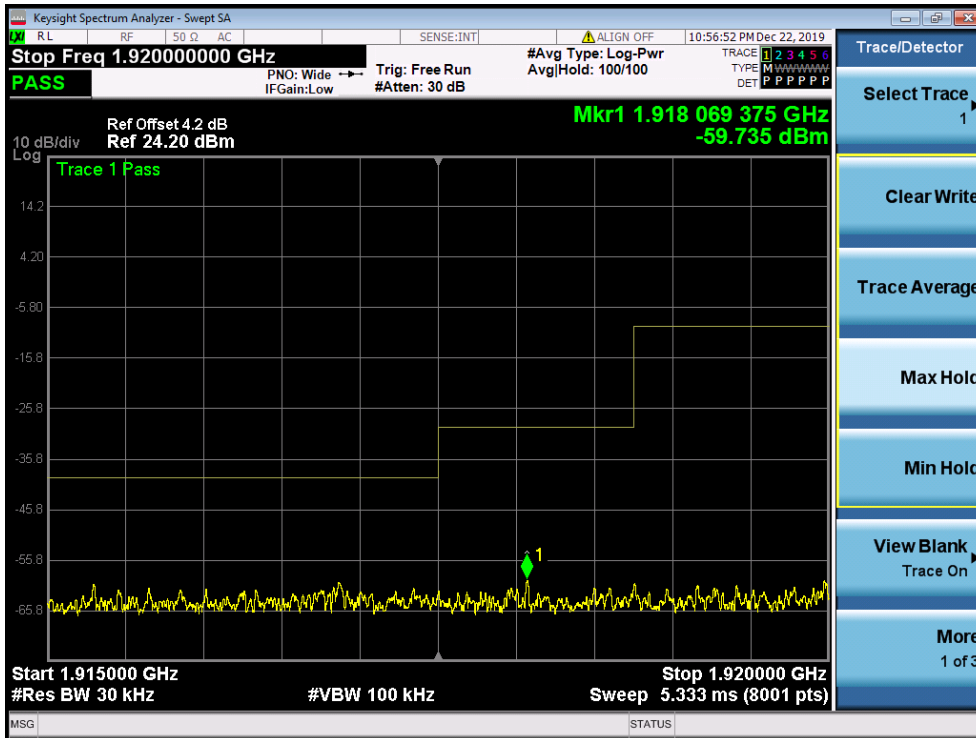
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Test Plot of Out-of-Band Unwanted Emissions Highest Channel:

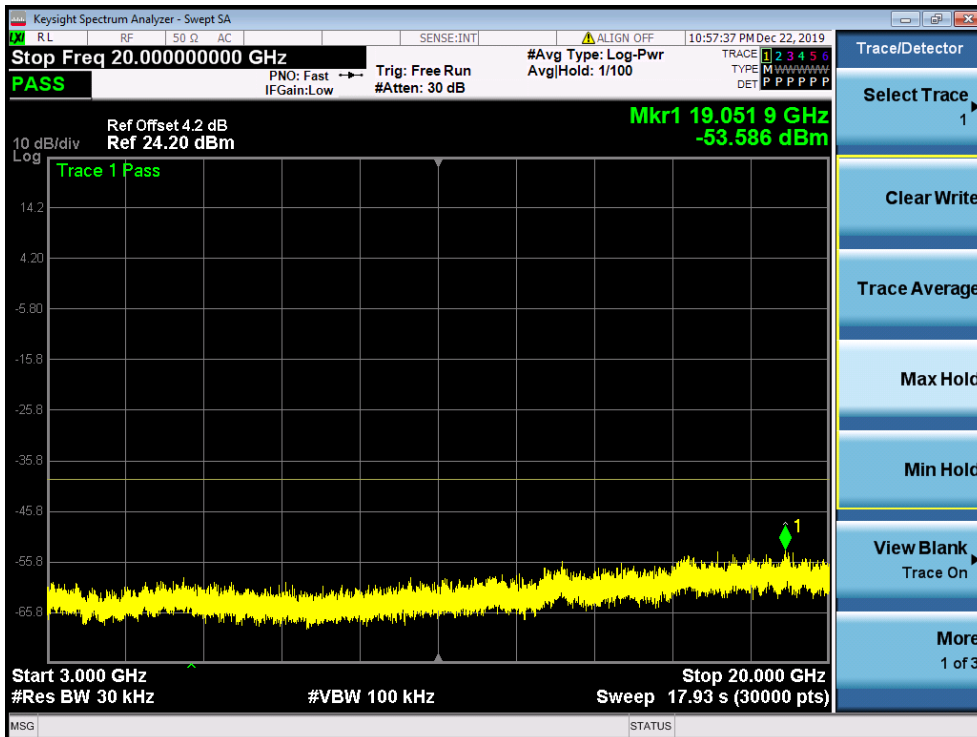
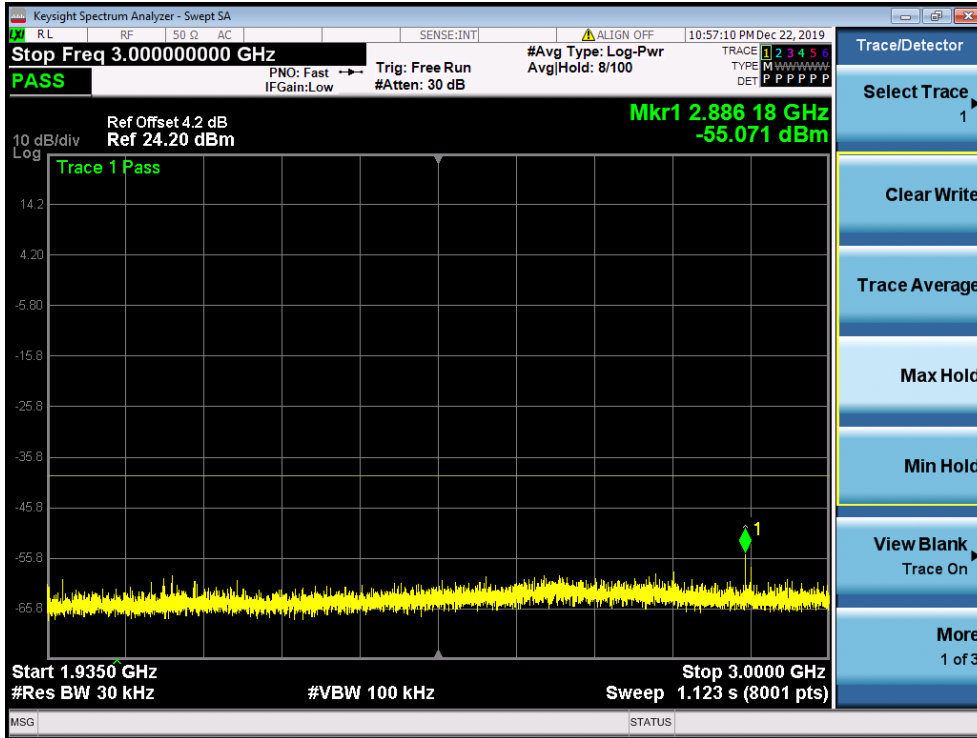


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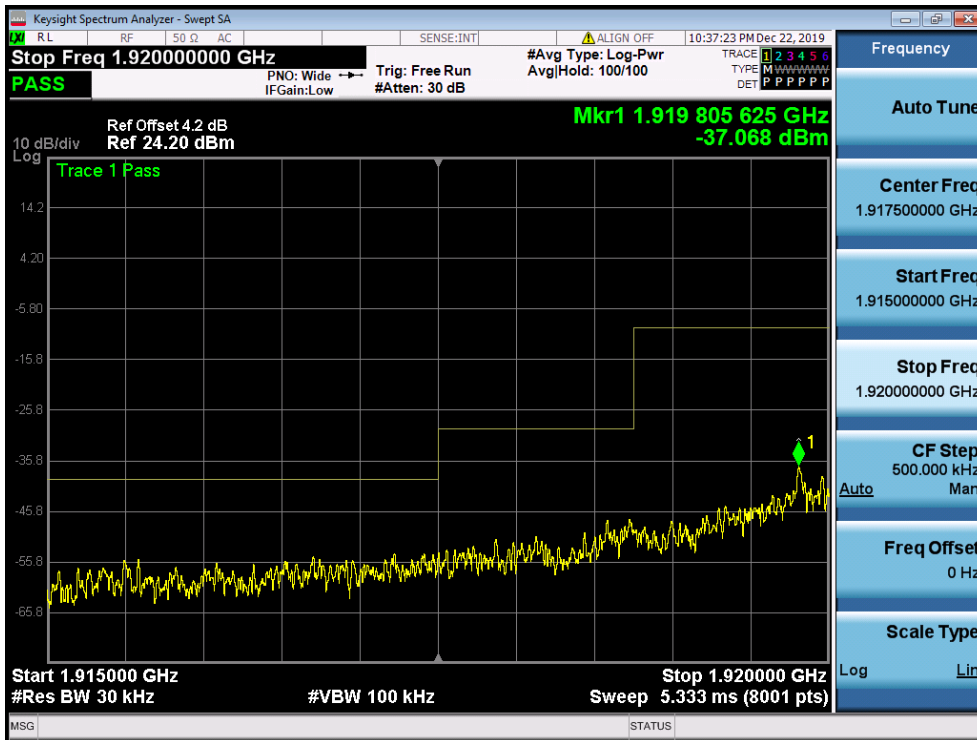
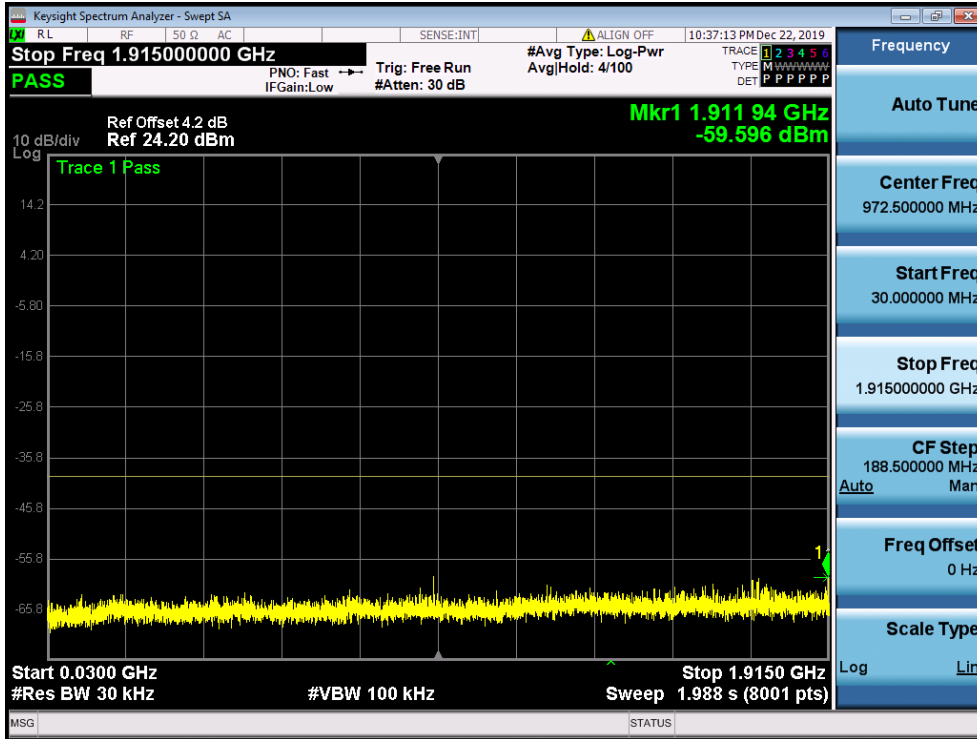
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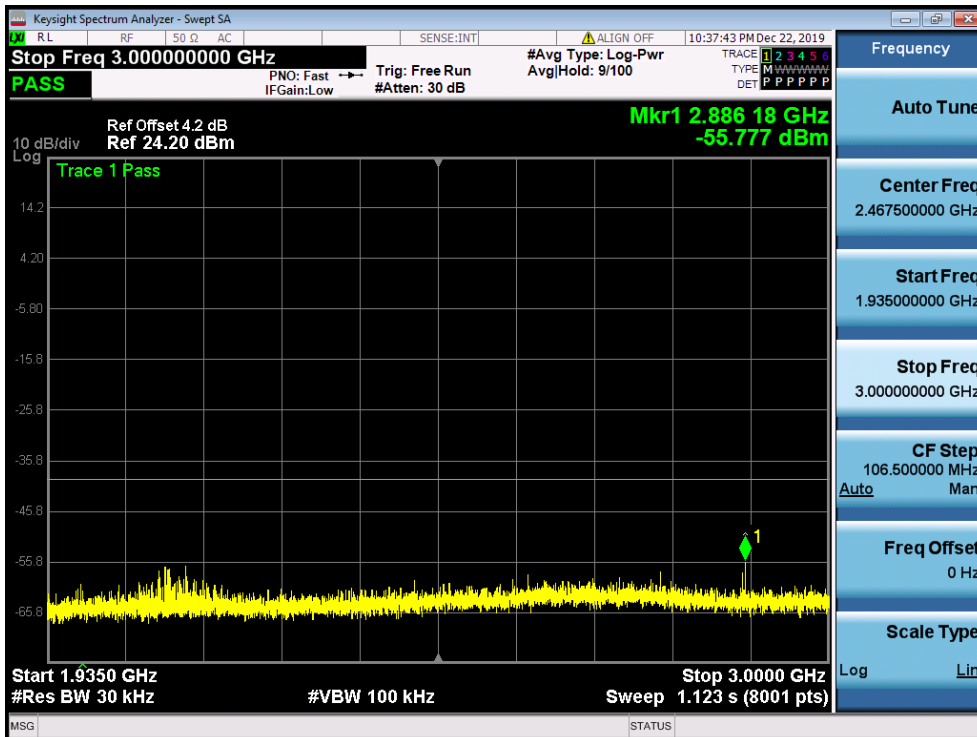
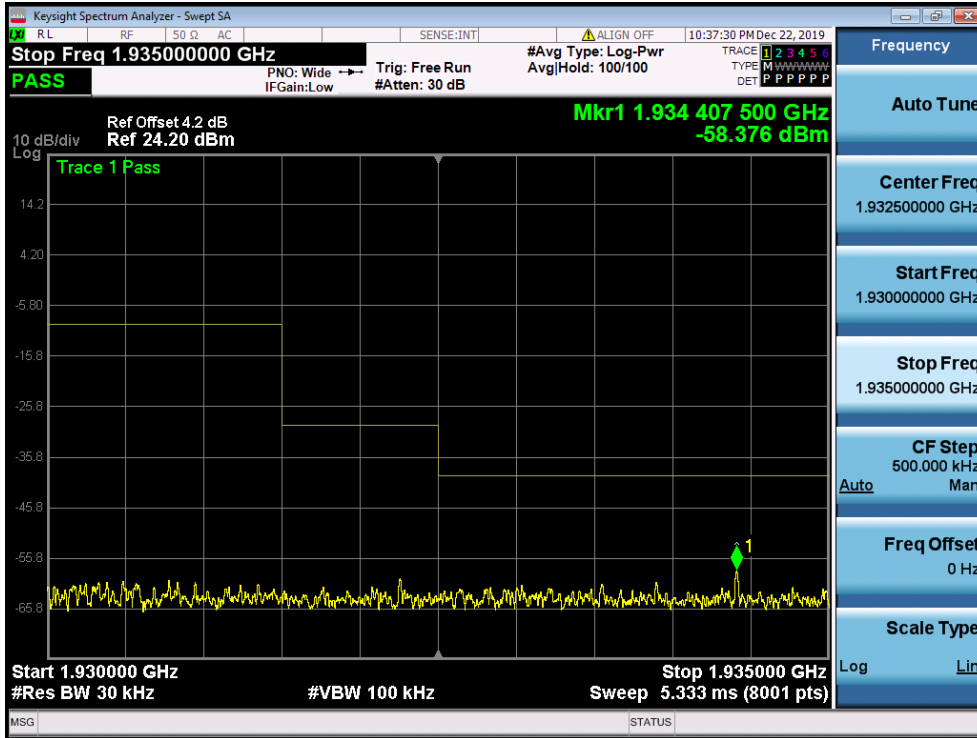


ANT1:

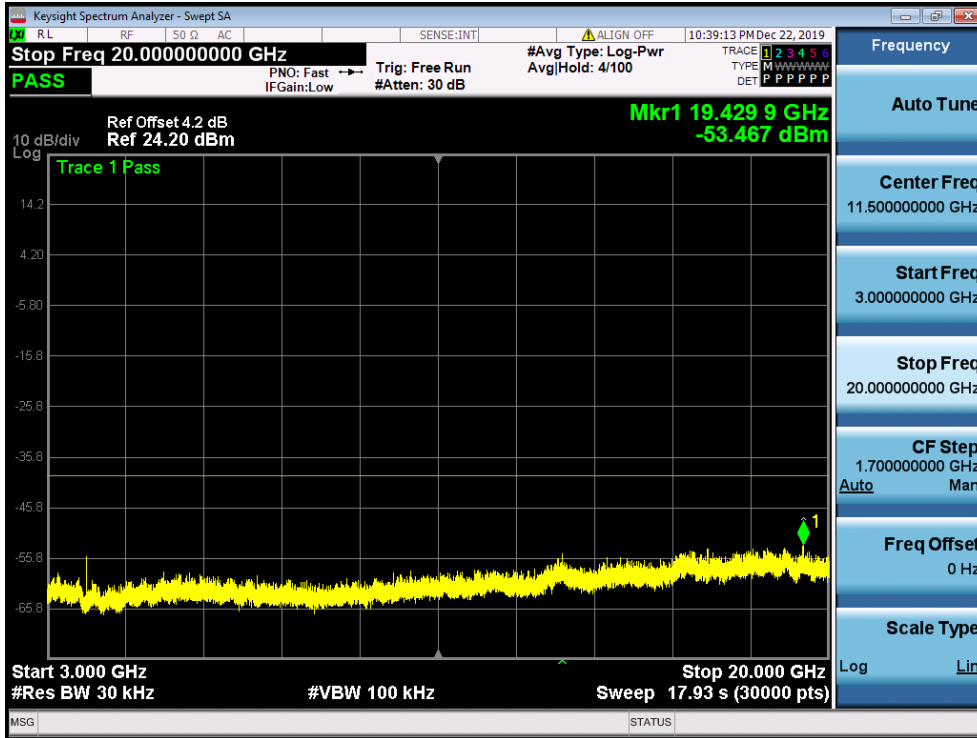
Test Plot of Out-of-Band Unwanted Emissions Lowest Channel:



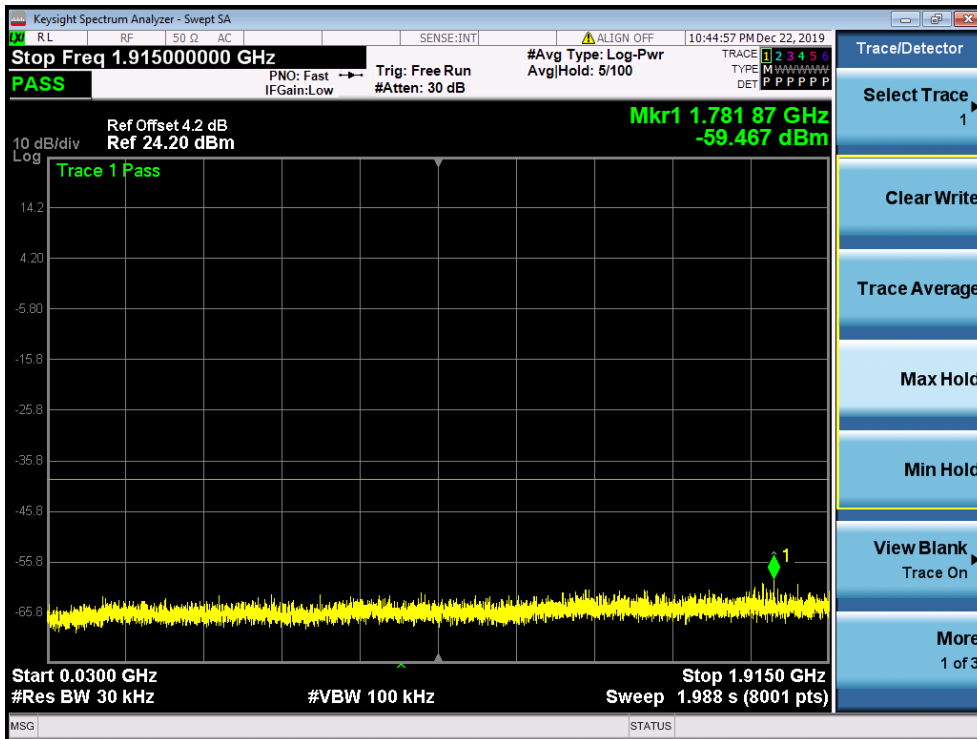
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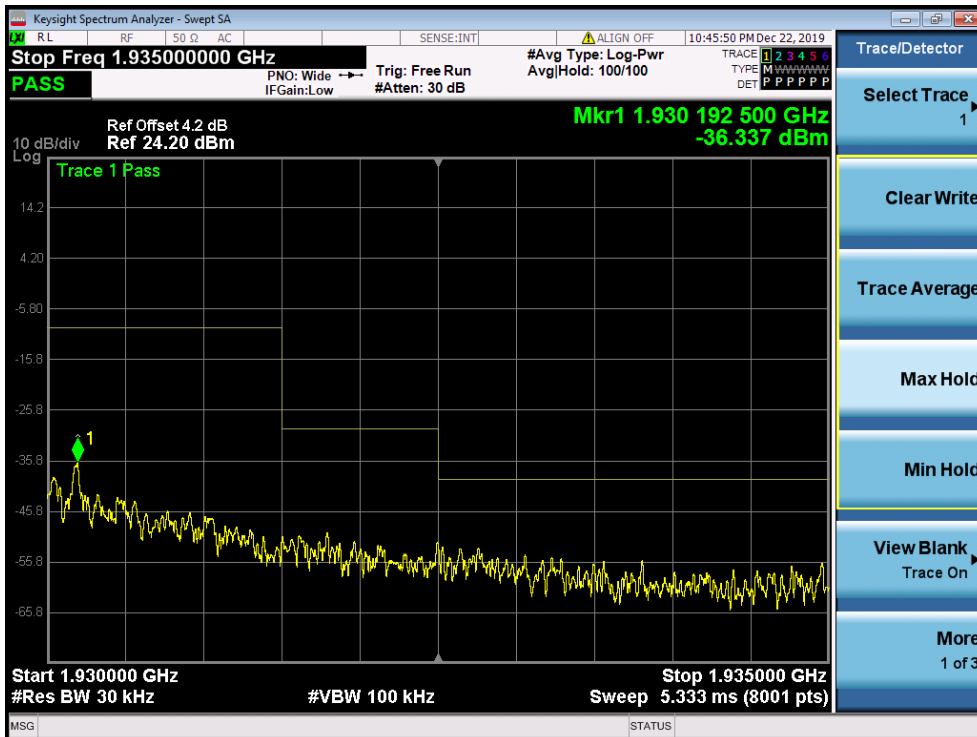
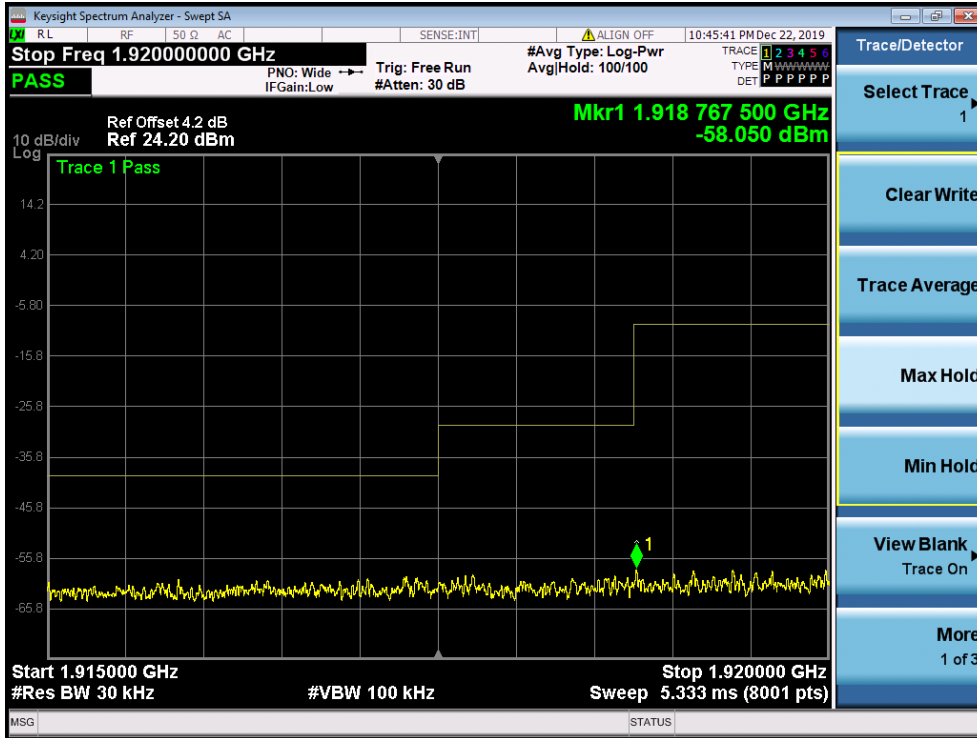
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Test Plot of Out-of-Band Unwanted Emissions Highest Channel:

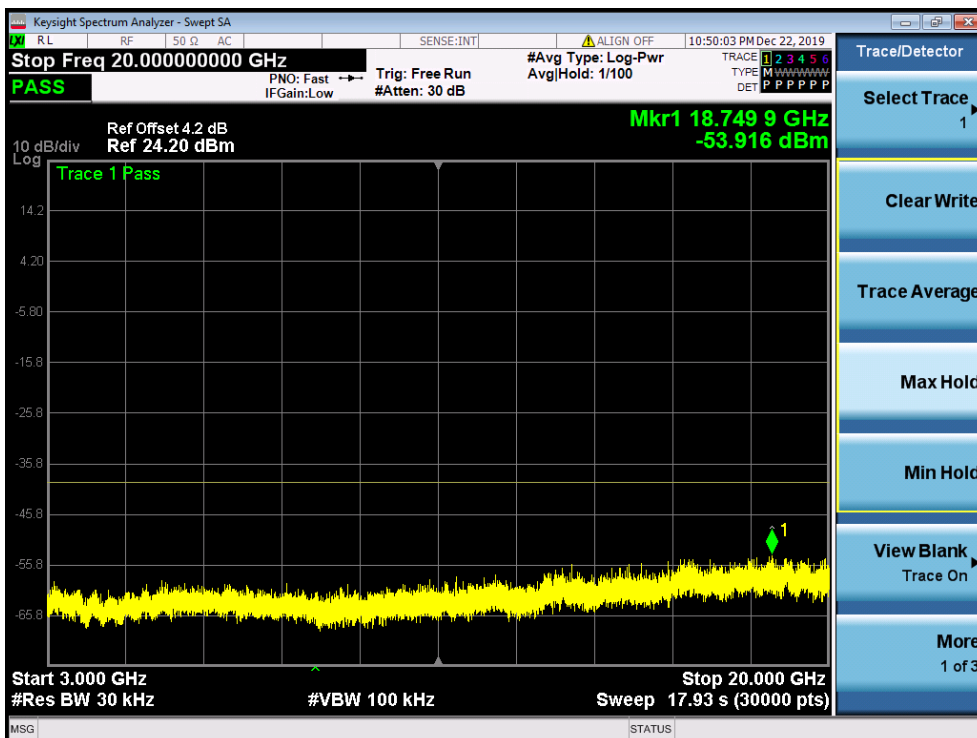
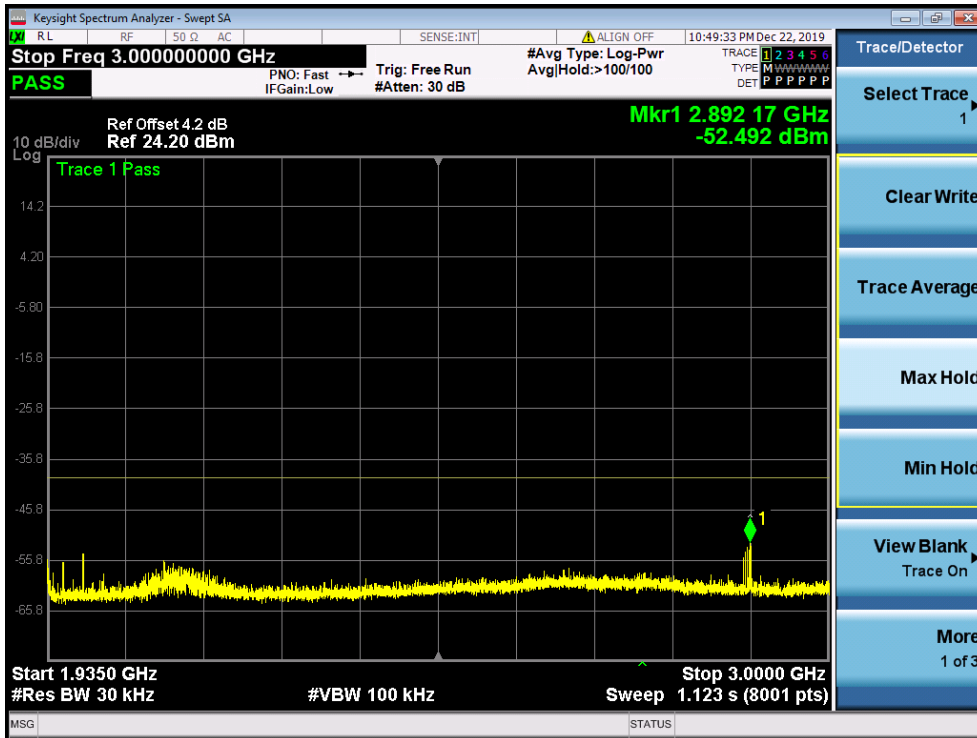


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### 6.10 Carrier Frequency Stability

Test Requirement:	47 CFR Part 15.323(f)
Test Method:	ANSI C63.17: 2013
Limit:	maintained within +/-10 ppm at the following conditions: 1. Over 1 hour at nominal supply voltage and a temperature of +20 °C; 2. Over a variation in the primary supply voltage of 85 % to 115 % of nominal supply voltage at a temperature of +20 °C. This test does not apply to an EUT that is only powered by battery for operation; 3. Over a temperature variation of -20 °C to +50 °C or at extreme temperatures as declared by manufacturer, and at nominal supply voltage.
Test Procedure:	Measurements are made in accordance with ANSI C63.17 sub-clause 6.2.1 The EUT and CMD60 is connected with shielded coaxial cable. The EUT is controlled by DECT Radio Communication Tester, CMD60, to use a fixed frequency channel during test as well as record the frequency offset. The transmission of EUT is in burst mode with pseudo-random data.
Test Setup:	<pre> graph LR     CMD60[CMD60] --- Splitter[Splitter]     EUT[EUT] --- Splitter     Splitter --- SA[SA]             </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

Test Results: Worst case ANT0

#### Carrier Frequency Stability over time at nominal temperature:

Average Mean Carrier Frequency (MHz)	Max. Diff. (kHz)	Min. Diff. (kHz)	Max. Dev. (ppm)	Limit(ppm)	Results
1924.991883	0.34	-0.46	0.42	±10	Pass

#### Carrier Frequency Stability over Power Supply Voltage at Nominal Temperature

Voltage	Measured Carrier Frequency (MHz)	Difference (kHz)	Deviation (ppm)	Limit(ppm)	Results
Vnom	1924.992	0	0	±10	Pass
85% of Vnom	1924.992	0.0	0.0	±10	Pass
115% of Vnom	1924.992	0.0	0.0	±10	Pass

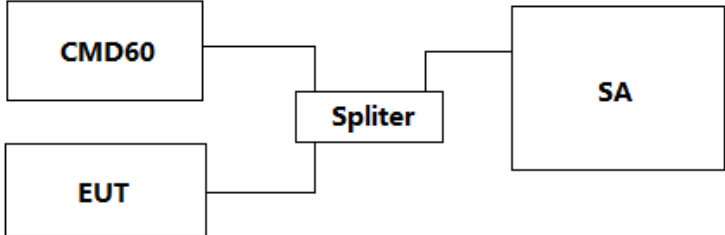


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**Carrier Frequency Stability over Temperature:**

Temperature (°C)	Measured Carrier Frequency (MHz)	Difference (kHz)	Deviation (ppm)	Limit(ppm)	Results
-20°C	1924.991	0.42	0.84	±10	Pass
+50°C	1924.991	-0.73	-1.13	±10	Pass

**6.11 Frame Repetition Stability**

Test Requirement:	47 CFR Part 15.323(e)
Test Method:	ANSI C63.17: 2013
Limit:	<p>TDD:  EUT that implement time division for the purpose of maintaining a duplex connection shall maintain a frame-repetition rate whereby three times the standard deviation of the frequency stability shall not exceed 50 ppm, not including a shift of the mean;</p> <p>TDMA:  EUT that further divides access in time shall maintain a frame-repetition rate whereby three times the standard deviation of the frequency stability shall not exceed 10 ppm, not including a shift of the mean.</p>
Test Procedure:	<p>X axis: Time  Time setting: Approximate frame period × 100  Y axis: Frequency  Center frequency: Nominal frame-repetition rate  Frequency span: Span large enough so that the full waveform is greater than 50% but less than 100% of the display scale  Measurement time interval (gating time) :X (in units of frame period) where X ≤ 1000  Number of measurements: 1000/X (where X is the measurement interval in units of frame period)</p>
Test Setup:	 <pre> graph LR     EUT[EUT] --- Splitter[Splitter]     CMD60[CMD60] --- Splitter     Splitter --- SA[SA]     </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

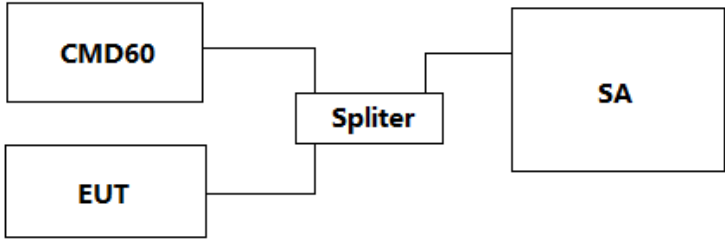
**Test Results: Worst case ANT0**

Maximum Frame Repetition Stability (ppm)	Limit (ppm)	Results
<0.0001 and >-0.0001	±10	Pass



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### 6.12 Frame Period and Jitter

Test Requirement:	47 CFR Part 15.323(e)	
Test Method:	ANSI C63.17: 2013	
Limit:	Frame Period	20 or 10 ms
	Max Jitter	25 $\mu$ s
	3 times St. Dev of Jitter	12.5 $\mu$ s
Test Procedure:	Measurements are made in accordance with ANSI C63.17 sub-clause 6.2.3. Test setup is shown in section 3.2 Figure 3.2.1. A spectrum analyzer measures the time duration between the rising edges of two consecutive frames. The measurements are taken over 100,000 frames. These measurement values are used to compute mean value and the difference between any two consecutive frame periods. The mean value is the frame period.	
Test Setup:	 <pre> graph LR     CMD60[CMD60] --- Splitter[Splitter]     EUT[EUT] --- Splitter     Splitter --- SA[SA]         </pre>	
Test Mode:	Transmitting mode	
Instruments Used:	Refer to section 5.0 for details	

### Test Results: Worst case ANTO

Measured Maximum Jitter ( $\mu$ s)	Limit ( $\mu$ s)	Results
-0.156	$\pm$ 25	Pass



**6.13 Monitoring Threshold, Least Interfered Channel**

Test Requirement:	47 CFR Part 15.323(c)(2)(5)(9)
Test Method:	ANSI C63.17: 2013
Limit:	Least Interfered Channel Procedure (LIC) may only be used by systems with more than 20 duplex system access channels. Systems with less than 20 duplex system access channels are not allowed to transmit when interferer level is above Lower Threshold.
Test Procedure:	Please refer to accordance with ANSI C63.17 Clause 7.3.1, 7.3.3, 7.3.4
Test Setup:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

Calculation of Monitoring Threshold Limit:

$$\text{Monitoring Threshold (T)} \leq -174 + 10 \log_{10} B + M + P_{\max} - P_{\text{EUT}} \text{ dBm}$$

$$\leq 15 \log_{10} B - 184 + M - P_{\text{EUT}} \text{ dBm}$$

- Where
- B = Measured Emission Bandwidth:  $1.47 \times 10^6$  Hz
  - M = 30 dB for Lower Monitoring Threshold ( $T_L$ ), or  
 = 50 dB for Upper Monitoring Threshold ( $T_U$ )
  - $P_{\max}$  =  $5 \log_{10} B - 10$  dBm
  - $P_{\text{EUT}}$  = Measured Peak Transmit Power: 20.8 dBm

Monitoring Threshold Limits:

	FCC
Lower Monitoring Threshold ( $T_L + U_M$ ) in dBm	-82.3
Upper Monitoring Threshold ( $T_U + U_M$ ) in dBm	-62.3

NA - Not applicable



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Test Descriptions and Results: Worst case ANT1

Least Interfered Channel (LIC) Procedure Test, FCC 15.323(b), (c)(2) and (c)(5)

ANSI C63.17 clause 7.3.2 ref.	Observation	Results
b) f1 at TL + UM + 7 dB, f2 at TL + UM	Transmission always on f2	Pass
c) f1 at TL + UM, f2 at TL + UM +7 dB	Transmission always on f1	Pass
d) f1 at TL + UM + 1 dB, f2 at TL + UM - 6 dB	Transmission always on f2	Pass
e) f1 at TL + UM - 6 dB, f2 at TL + UM + 1 dB	Transmission always on f1	Pass

NA - Not applicable

Selected Channel Confirmation, FCC 15.323(c)(1) and (5)

ANSI C63.17 clause 7.3.3	Observation	Results
b) Shall not transmit on f1	EUT transmits on f2	Pass
d) Shall not transmit on f2	EUT transmits on f1	Pass



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### 6.14 Threshold Monitoring Bandwidth

Test Requirement:	47 CFR Part 15.323(c)(7)
Test Method:	ANSI C63.17: 2013
Limit:	The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission.
Test Procedure:	Please refer to accordance with ANSI C63.17 Clause 7.4.1
Test Setup:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

#### Test Results: Worst case ANT0

Test performed	Observation	Results
Simple Compliance test, at $\pm 30\%$ of B	N/A	N/A
More Detailed Test, at $\pm 6$ dB points	N/A	N/A
More Detailed Test, at $\pm 12$ dB points	N/A	N/A

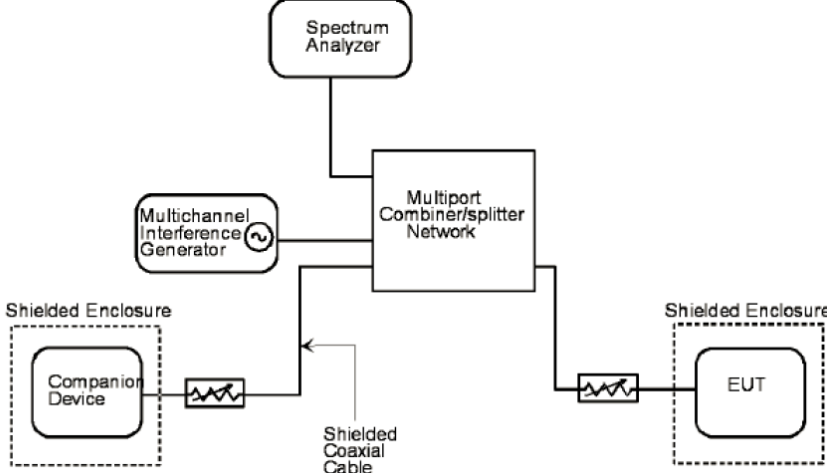
NA – Not applicable

\*Remarks: Detailed Compliance Test was used to show the compliance of the EUT.



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**6.15 Reaction Time and Monitoring Interval**

Test Requirement:	47 CFR Part 15.323(c) (1) (5) (7)
Test Method:	ANSI C63.17: 2013
Limit:	The maximum reaction time must be required to be less than 50 $\mu$ s. If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall not be required to be less than 35 $\mu$ s.
Test Procedure:	Please refer to accordance with ANSI C63.17 Clause 7.5
Test Setup:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

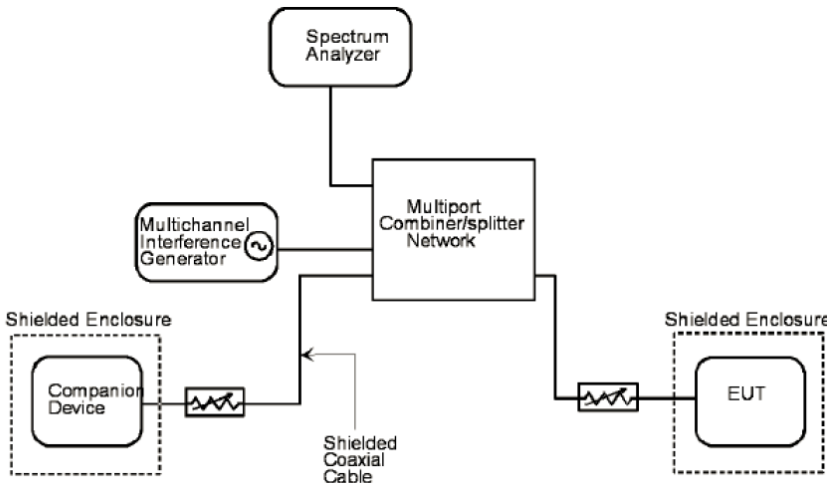
**Test Results: Worst case ANTO**

Pulse Width, ref. to ANSI C63.17 clause 7.5	Observation	Results
c) > largest of 50 $\mu$ s	EUT transmits on f1	Pass
d) > largest of 35 $\mu$ s	EUT transmits on f1	Pass

Comment: Since B is larger than 1.25 MHz the test was performed with pulse lengths of 50  $\mu$ s and 35  $\mu$ s.



### 6.16 Time and Spectrum Window Access Procedure

Test Requirement:	47 CFR Part 15.323(c) (4) (6)
Test Method:	ANSI C63.17: 2013
Limit:	<p>Once access to specific combined time and spectrum windows is obtained an acknowledgment from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgments must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgment, at which time the access criteria must be repeated.</p> <p>If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same windows after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.</p>
Test Procedure:	Please refer to accordance with ANSI C63.17 Clause 8.1.1, 8.2.1; 8.1.2 or 8.1.3.
Test Setup:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details



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Test results: Worst case ANT0

Access Criteria, ref. to ANSI C63.17 clause 8.1.1, 8.2.1	Observation	Results
b) Check that the EUT transmits on the interference free time-slot	EUT transmits on the interference free time-slot	Pass
b) The EUT must terminate or pause in its repetitive transmission of the control and signalling channel on the open channel to repeat the access criteria not less frequently than every 30 s	Transmission paused every 1.08 s	Pass

If FCC 15.323(c)(6) option, If Random Waiting Interval is NOT implemented

Access Criteria, ref. to ANSI C63.17 clause 8.1.2	Observation	Results
b) Check that the EUT changes to an interference-free slot when interference is introduced on the time slot in use	EUT changes to the interference-free time-slot, and stays there	Pass

If FCC 15.323(c)(6) option, Only if Random Waiting Interval is implemented

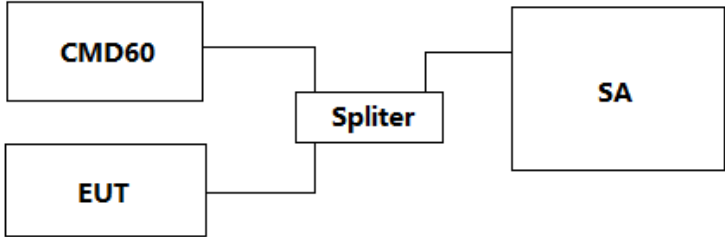
Access Criteria, ref. to ANSI C63.17 clause 8.1.3	Observation	Results
b-d) Check that the EUT uses random waiting interval before continuing transmission on an interfered time slot	N/A	N/A

Comment: The tested EUT does not support the Random Waiting Interval option.



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### 6.17 Acknowledgements and Transmission Duration

Test Requirement:	47 CFR Part 15.323(c) (3) (4)
Test Method:	ANSI C63.17: 2013
Limit:	<p>Occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria.</p> <p>Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease.</p> <p>Periodic acknowledgements must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgement, at which time the access criteria must be repeated.</p>
Test Procedure:	Please refer to accordance with ANSI C63.17 Clause 8.2
Test Setup:	 <pre> graph LR     CMD60[CMD60] --- Splitter[Splitter]     EUT[EUT] --- Splitter     Splitter --- SA[SA]     </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details



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Test results: Worst case ANT0

Acknowledgements

Timing for EUTs using control and signaling channel type transmissions:

Conditions	Transmission Duration (seconds)	Limit (seconds)	Results
Time needed to repeat access criteria	NA	30	Pass

Timing for EUTs using communications channel type transmissions:

Conditions	Transmission Duration (seconds)	Limit (seconds)	Results
Activate EUT w/ companion device off	NA	1	NA
Time needed to cease Traffic Channel	5.1	30	Pass

NA - Not applicable

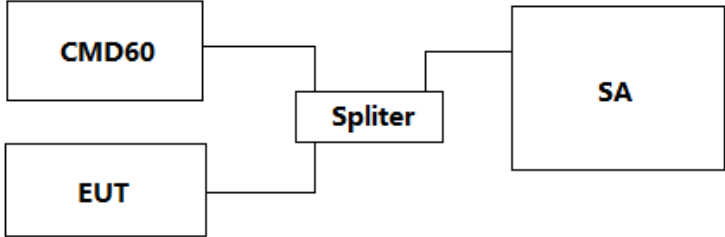
Transmission Duration

Measured Maximum Transmission Duration (minutes)	Limit (minutes)	Results
320	480	Pass



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**6.18 Dual Access Criteria Check**

Test Requirement:	47 CFR Part 15.323(c) (10)
Test Method:	ANSI C63.17: 2013
Limit:	An initiating device may attempt to establish a duplex connection by monitoring both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.
Test Procedure:	Please refer to accordance with ANSI C63.17 Clause 8.3
Test Setup:	 <pre> graph LR     CMD60[CMD60] --- Splitter[Splitter]     EUT[EUT] --- Splitter     Splitter --- SA[SA]             </pre>
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.0 for details

Test results: Worst case ANT0

EUTs that implements the LIC procedure:

Test ref. to ANSI C63.17 clause 8.3.2	Observation	Results
b) EUT is restricted to a single carrier f1 for TDMA systems. The Test is Pass if EUT can transmit	EUT can transmit	Pass
c) d) Transmission on interference-free receive time/spectrum window	EUT transmits on interference free receive slot	Pass
e) f) Transmission on interference-free transmit time/spectrum window	EUT transmits on interference free transmit slot	Pass





### 6.19 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15.319(g), 15.209(a)				
Test Method:	ANSI C63.4: 2014				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-960MHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 960MHz	RMS	1MHz	3MHz	RMS
Limit: (Spurious Emissions)	$f \leq 1.25\text{MHz}$ outside UPCS band : $\leq -9.5\text{dBm}$ $1.25\text{MHz} \leq f \leq 2.5\text{MHz}$ outside UPCS band : $\leq -29.5\text{dBm}$ $f \geq 2.5\text{MHz}$ outside UPCS band : $\leq -39.5\text{dBm}$ or shall meet the requirement of FCC Rule 15.319(g) which shall not exceed the limits of FCC Rule 15.209				



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<b>Test Setup:</b>		
	<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>3) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>4) 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.</li> <li>5) 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</li> </ol>	



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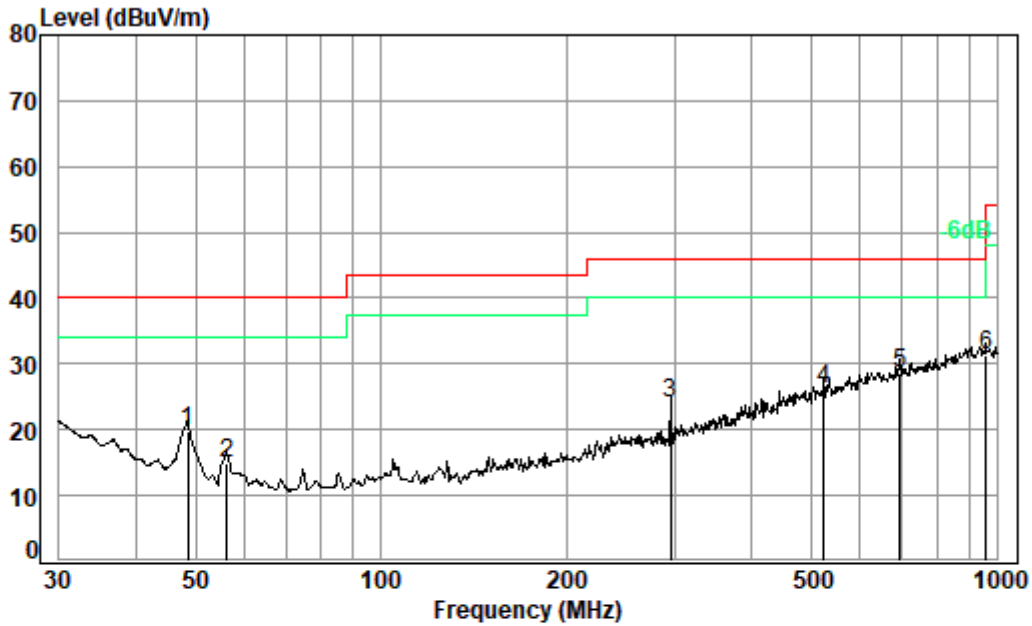
	<p>360 degrees to find the maximum reading.</p> <p>6) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>7) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values 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.</p> <p>8) Test the EUT in the lowest channel,the middle channel,the Highest channel</p> <p>9) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.</p> <p>10) Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	<p>Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.0 for details



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The requirement of FCC Rule 15.209:  
 Test Data: Adapter 2 model: VT05UUS06040  
 Below 1GHz:  
 Mode:a; Polarization:Horizontal



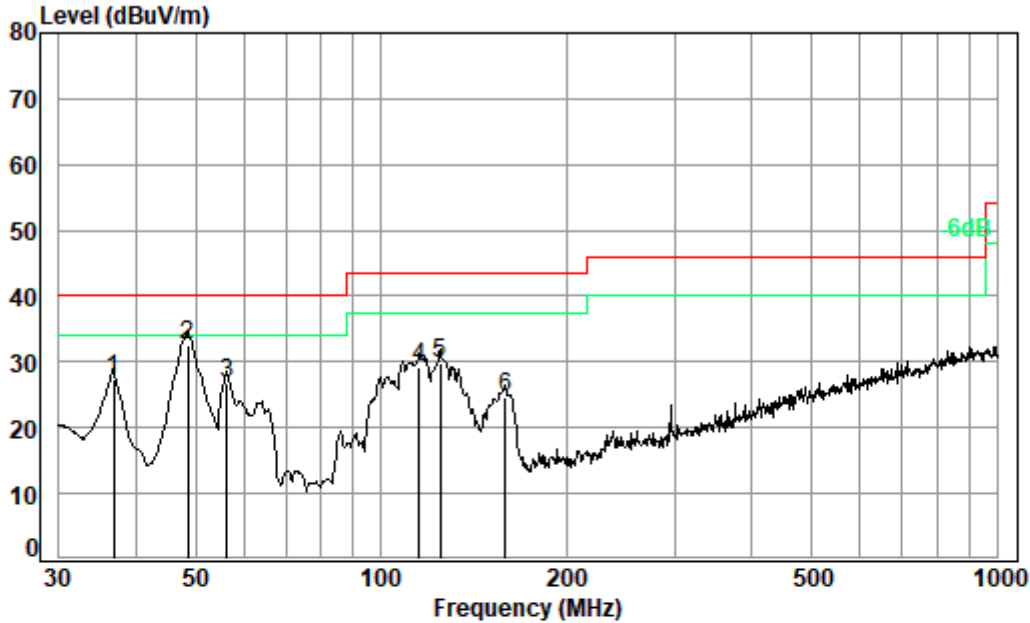
Condition: 3m HORIZONTAL  
 Job No. : 01228AT  
 Test mode: a  
 : 2

	Ant	Cable	Read	Limit	Over	
Freq	Factor	Loss	Level	Level	Line	Limit Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	48.50	14.65	0.77	31.93	19.66	40.00 -20.34 QP
2	56.20	13.56	0.80	28.18	14.86	40.00 -25.14 QP
3	295.15	19.41	1.88	29.50	23.89	46.00 -22.11 QP
4	524.55	25.13	2.63	26.21	26.05	46.00 -19.95 QP
5	696.86	27.86	2.90	25.76	28.58	46.00 -17.42 QP
6 pp	958.79	30.10	3.66	24.50	31.20	46.00 -14.80 QP





Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 01228AT

Test mode: a

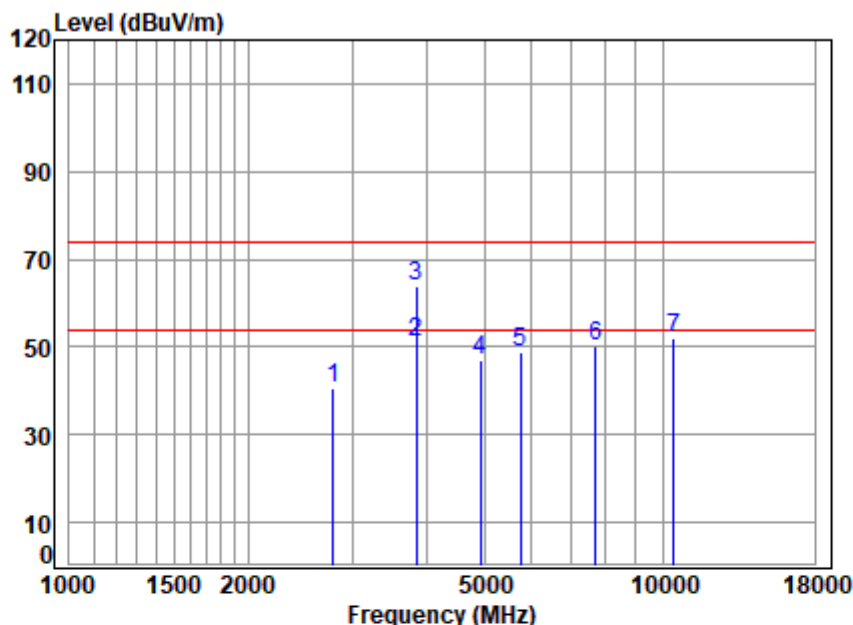
: 2

	Ant Freq	Cable Factor	Read Loss	Limit Level	Over Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.77	18.97	0.60	35.46	27.32	40.00	-12.68	QP
2 pp	48.50	14.65	0.77	44.81	32.54	40.00	-7.46	QP
3	56.20	13.56	0.80	39.94	26.62	40.00	-13.38	QP
4	115.32	13.30	1.24	42.30	29.30	43.50	-14.20	QP
5	125.01	13.26	1.26	42.90	29.93	43.50	-13.57	QP
6	159.23	15.43	1.33	35.07	24.51	43.50	-18.99	QP



**Above 1GHz: Worst case ANT0**

Mode:a; Polarization:Horizontal



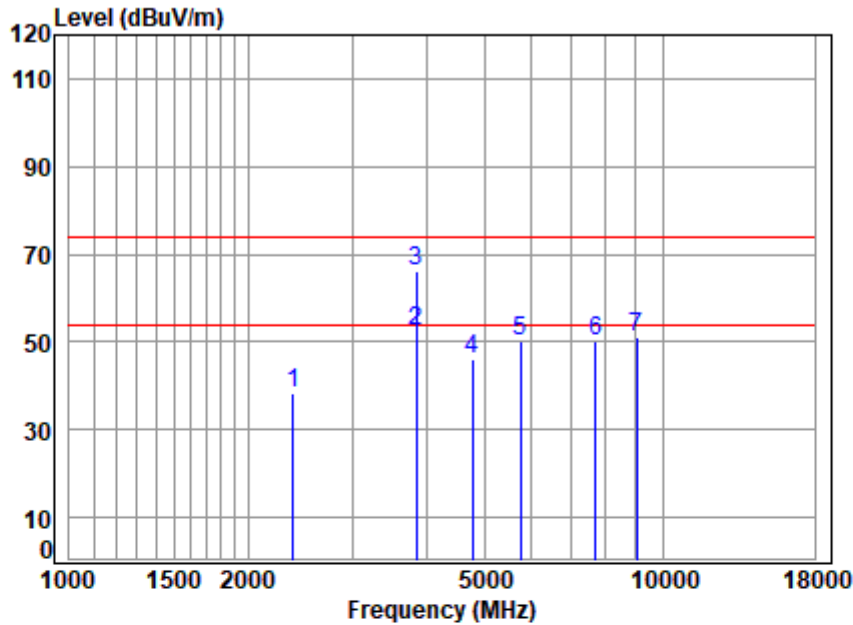
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01228AT\01229AT  
 Mode : CH4  
 Note :

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2782.060	3.87	29.99	41.12	47.79	40.53	74.00	-33.47 Peak
2	3843.072	6.57	32.40	42.02	54.16	51.11	54.00	-2.89 Average
3	3843.072	6.57	32.40	42.02	66.99	63.94	74.00	-10.06 Peak
4	4930.721	7.05	34.12	42.85	48.69	47.01	74.00	-26.99 Peak
5	5764.608	7.09	34.87	42.39	49.21	48.78	74.00	-25.22 Peak
6	7686.144	8.61	36.45	41.34	46.42	50.14	74.00	-23.86 Peak
7	10423.800	9.53	37.73	38.20	43.03	52.09	74.00	-21.91 Peak



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Mode:a; Polarization:Vertical



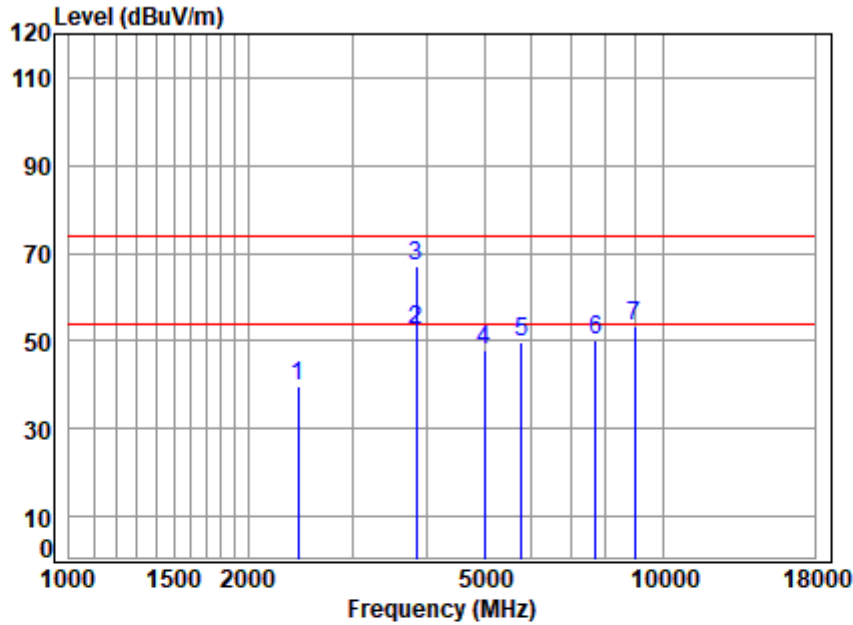
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01228AT\01229AT  
 Mode : CH4  
 Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2380.026	3.75	28.50	40.97	46.89	38.17	74.00	-35.83	Peak
2	3843.072	6.57	32.40	42.02	55.31	52.26	54.00	-1.74	Average
3	3843.072	6.57	32.40	42.02	69.42	66.37	74.00	-7.63	Peak
4	4776.419	6.70	33.94	42.75	48.39	46.28	74.00	-27.72	Peak
5	5764.608	7.09	34.87	42.39	50.50	50.07	74.00	-23.93	Peak
6	7686.144	8.61	36.45	41.34	46.65	50.37	74.00	-23.63	Peak
7	9021.160	9.21	37.22	39.48	44.37	51.32	74.00	-22.68	Peak



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Mode:a; Polarization:Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01228AT\01229AT  
 Mode : CH2  
 Note :

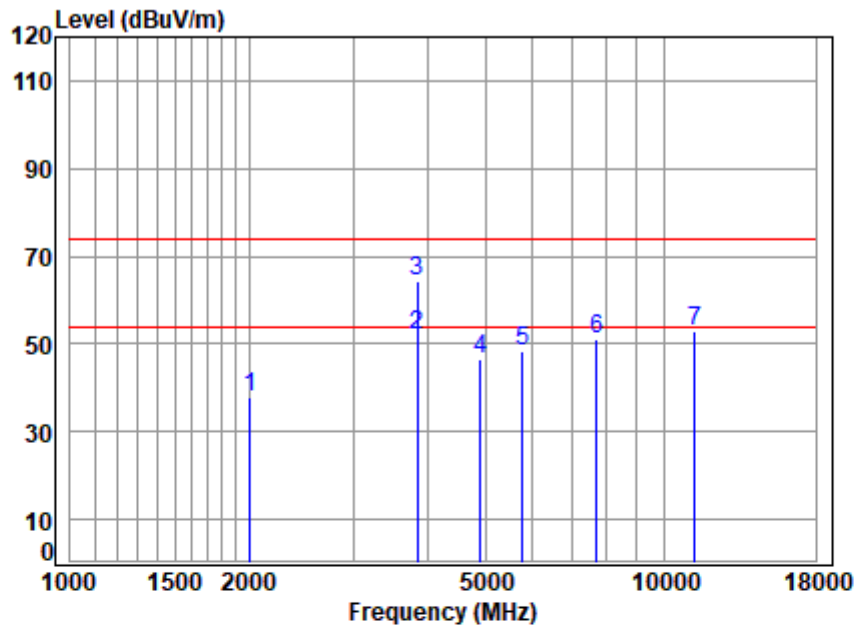
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBUV	dBUV/m	dBUV/m	dB	
1	2428.671	3.75	28.58	40.99	48.58	39.92	74.00	-34.08	Peak
2	3849.984	6.57	32.41	42.03	55.29	52.24	54.00	-1.76	Average
3	3849.984	6.57	32.41	42.03	70.02	66.97	74.00	-7.03	Peak
4	5002.497	6.98	34.20	42.90	49.56	47.84	74.00	-26.16	Peak
5	5774.976	7.04	34.88	42.38	50.17	49.71	74.00	-24.29	Peak
6	7699.968	8.61	36.46	41.34	46.43	50.16	74.00	-23.84	Peak
7	8969.161	8.88	37.19	39.56	46.69	53.20	74.00	-20.80	Peak



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Mode:a; Polarization:Vertical



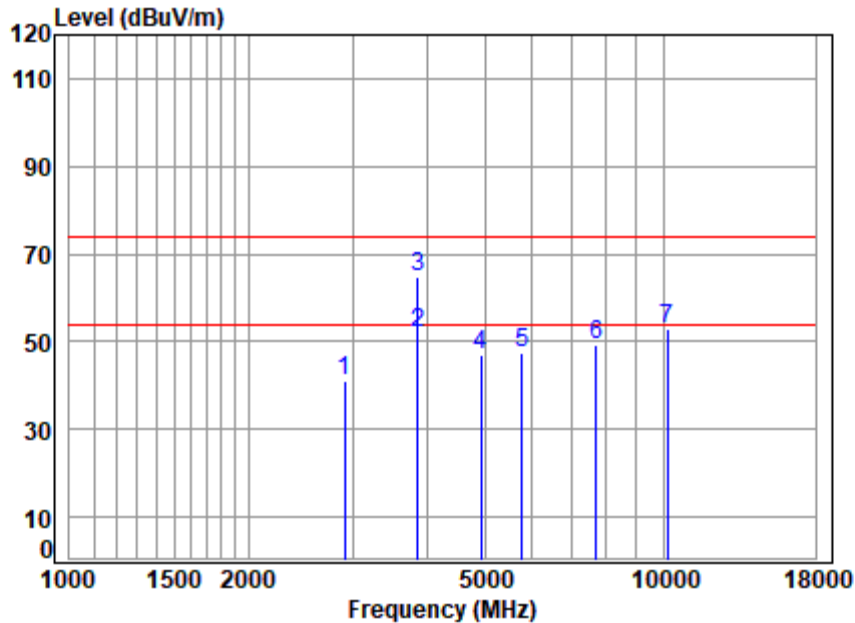
Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01228AT\01229AT  
 Mode : CH2  
 Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2006.877	3.24	27.81	40.80	47.81	38.06	74.00	-35.94	Peak
2	3849.984	6.57	32.41	42.03	55.09	52.04	54.00	-1.96	Average
3	3849.984	6.57	32.41	42.03	67.42	64.37	74.00	-9.63	Peak
4	4916.490	7.07	34.10	42.84	48.33	46.66	74.00	-27.34	Peak
5	5774.976	7.04	34.88	42.38	48.99	48.53	74.00	-25.47	Peak
6	7699.968	8.61	36.46	41.34	47.36	51.09	74.00	-22.91	Peak
7	11269.860	9.63	37.85	38.59	43.86	52.75	74.00	-21.25	Peak



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Mode:a; Polarization:Horizontal



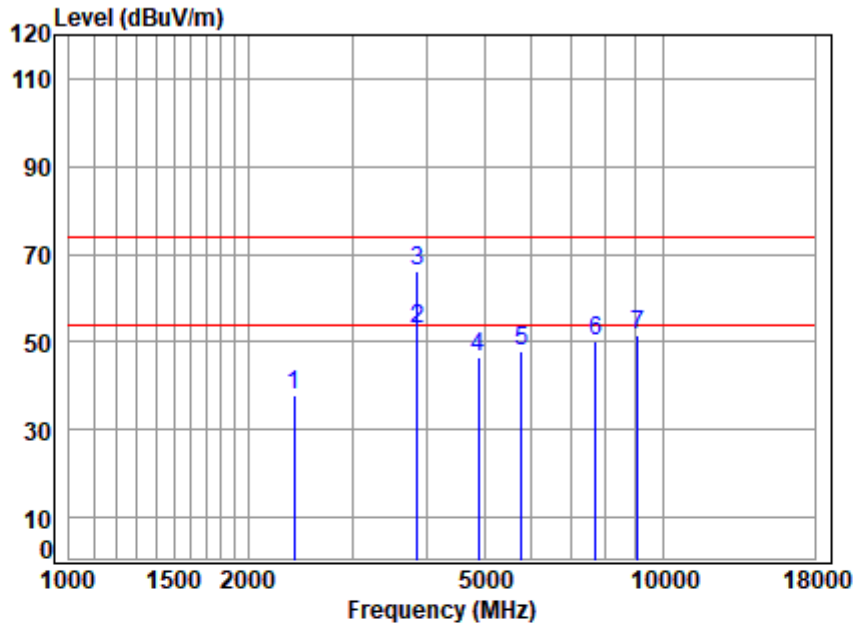
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01228AT\01229AT  
 Mode : CH0  
 Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2905.331	4.29	30.51	41.17	47.42	41.05	74.00	-32.95	Peak
2	3856.896	6.46	32.43	42.04	55.29	52.14	54.00	-1.86	Average
3	3856.896	6.46	32.43	42.04	67.92	64.77	74.00	-9.23	Peak
4	4930.721	7.05	34.12	42.85	48.79	47.11	74.00	-26.89	Peak
5	5785.344	7.04	34.89	42.37	47.86	47.42	74.00	-26.58	Peak
6	7713.792	8.61	36.47	41.33	45.55	49.30	74.00	-24.70	Peak
7	10126.820	9.80	37.85	38.06	43.29	52.88	74.00	-21.12	Peak



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Mode:a; Polarization:Vertical



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01228AT\01229AT  
 Mode : CH0  
 Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2393.824	3.66	28.52	40.97	46.84	38.05	74.00	-35.95	Peak
2	3856.896	6.46	32.43	42.04	55.88	52.73	54.00	-1.27	Average
3	3856.896	6.46	32.43	42.04	69.35	66.20	74.00	-7.80	Peak
4	4888.151	7.04	34.07	42.82	48.11	46.40	74.00	-27.60	Peak
5	5785.344	7.04	34.89	42.37	48.54	48.10	74.00	-25.90	Peak
6	7713.792	8.61	36.47	41.33	46.63	50.38	74.00	-23.62	Peak
7	9073.460	9.49	37.26	39.39	44.17	51.53	74.00	-22.47	Peak



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## 7 Photographs

### 7.1 EUT Test Setup

Please refer to setup photos.

### 7.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -

