FCC Test Report

FCC ID	:	**QIS-B2338-168ODU**
Equipment	:	**LTE Outdoor CPE**
Model No.	:	**B2338-168ODU**
Brand Name	:	**Huawei**
Applicant	:	**Huawei Technologies Co., Ltd.**
Address	:	**Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China.**
Standard	:	**47 CFR FCC Part 27 Subpart M**
Received Date	:	**Jan. 10, 2017**
Tested Date	:	**Jan. 13 ~ Jan. 16, 2017**

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FW682701-02	Rev. 01	Initial issue	Mar. 01, 2017

Summary of Test Results

FCC Rules	Description of Test	Measured	Result
2.1046 / 27.50(h)(2)	Output power	Conducted Power: 0.161 W / 5MHz 0.134 W / 10MHz 0.157 W / 15MHz 0.155 W / 20MHz	Pass
2.1053 / 27.53(m)(2)(6)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(m)(2)(6)	Conducted Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(m)(2)(6)	Channel Edge Measurement	Meet the requirement of limit	Pass
2.1049(h) / 27.53(m)(6)	Emission Bandwidth	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Product Details

The device B2338-168 / LTE Outdoor CPE = (B2338-168ODU) + (B2338-168IDU) is a product family consists of LTE Outdoor CPE + Indoor Dual Band Wi-Fi Router.

Brand name	Product name	Model name	FCC ID
Huawei	LTE Outdoor CPE	B2338-168ODU	QIS-B2338-168ODU
	Indoor Dual Band Wi-Fi Router	B2338-168IDU	QIS-B2338-168IDU

1.1.2 Specification of the Equipment under Test (EUT)

Operating Frequency	Channel Bandwidth: 5MHz: 2498.5 MHz ~ 2687.5 MHz Channel Bandwidth: 10MHz: 2501.0 MHz ~ 2685.0 MHz Channel Bandwidth: 15MHz: 2503.5 MHz ~ 2682.5 MHz Channel Bandwidth: 20MHz: 2506.0 MHz ~ 2680.0 MHz
Modulation Type	QPSK, 16QAM, 64QAM (Uplink)
Duplex Mode	TDD
Category	Cat. 12
Release Version	12
H/W Version	V02A
S/W Version	B2338-168 V100R001C00B29 (10/18/2016)

1.1.3 Maximum Conducted Power and Emission Designator

Channel Bandwidth	Modulation	Maximum Conducted Power (W)	Emission Designator
5MHz	QPSK	0.161	4M48G7D
5MHz	16QAM	0.138	4M47W7D
5MHz	64QAM	0.138	4M47W7D
10MHz	QPSK	0.134	8M97G7D
10MHz	16QAM	0.116	8M97W7D
10MHz	64QAM	0.114	8M95W7D
15MHz	QPSK	0.157	13M4G7D
15MHz	16QAM	0.135	13M4W7D
15MHz	64QAM	0.133	13M4W7D
20MHz	QPSK	0.155	17M9G7D
20MHz	16QAM	0.136	17M9W7D
20MHz	64QAM	0.134	17M9W7D

1.1.4 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	
			2496 ~ 2690 MHz	3600 ~ 3800 MHz
1	PCB+Metal	IPEX-Plug	7.7	8.1

1.1.5 EUT Operational Condition

Power Supply Type	56 Vdc from Wi-Fi router listed in section 1.1.1		
Operational Voltage	☒ Vnom (120 V)	☒ Vmax (138 V)	☒ Vmin (102 V)
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (60°C)	☒ Tmin (-40°C)

1.1.6 Duty cycle and duty factor

	Mode	Duty cycle (%)	Duty factor (dB)
Duty Cycle and Duty Factor	QPSK	41.27	3.84
	16QAM	41.27	3.84
	64QAM	41.27	3.84

1.1.7 Operating Channel List

Channel Bandwidth (MHz)	Channel	Frequency (MHz)
5	39675	2498.5
5	40620	2593.0
5	41565	2687.5
10	39700	2501.0
10	40620	2593.0
10	41540	2685.0
15	39725	2503.5
15	40620	2593.0
15	41515	2682.5
20	39750	2506.0
20	40620	2593.0
20	41490	2680.0

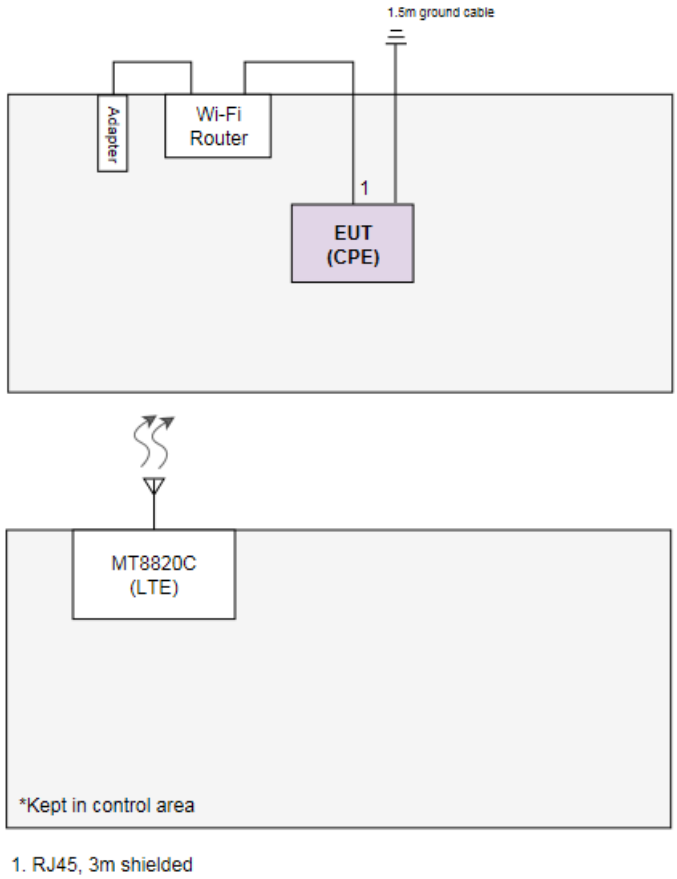
1.2 Local Support Equipment List

Support Equipment List						
No.	**Equipment**	**Brand**	**Model**	**S/N**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E6430	C0GB4X1	DoC	RJ45, 10m non-shielded
2	Indoor Dual Band Wi-Fi Router	Huawei	B2338-168 IDU	---	QIS-B2338-168IDU	---

Note: Wi-Fi Router is provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram



1. RJ45, 3m shielded

1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Nov. 25, 2016	Nov. 24, 2017
Receiver	R&S	ESR3	101658	Nov. 24, 2016	Nov. 23, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 21, 2016	Dec. 20, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 09, 2016	Dec. 08, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 09, 2016	Dec. 08, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 09, 2016	Dec. 08, 2017
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	16052	Dec. 09, 2016	Dec. 08, 2017
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 09, 2016	Dec. 08, 2017
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 09, 2016	Dec. 08, 2017
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2016	Feb. 16, 2017
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 27 Subpart M
ANSI C63.4-2014
ANSI / TIA-603-D -2010
FCC KDB 971168 D01 Power Meas License Digital Systems v02r02
FCC KDB 971168 D02 Misc OOBE License Digital Systems v01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Conducted emission	±2.670 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.63 dB
Temperature	±0.6 ^{o}C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
RF conducted	TH01-WS	22°C / 63%	Alex Huang
Radiated Emissions	03CH01-WS	23-26°C / 60-62%	Kevin Lee

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Channel Bandwidth	Modulation	Test channel
Output Power Conducted Emissions Occupied Bandwidth	5 MHz 10 MHz 15 MHz 20 MHz	QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM	2498.5 / 2593.0 / 2687.5 2501.0 / 2593.0 / 2685.0 2503.5 / 2593.0 / 2682.5 2506.0 / 2593.0 / 2680.0
Radiated Emission ≤ 1GHz	5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK	2687.5 2685.0 2682.5 2680.0
Radiated Emission > 1GHz	5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK	2498.5 / 2593.0 / 2687.5 2501.0 / 2593.0 / 2685.0 2503.5 / 2593.0 / 2682.5 2506.0 / 2593.0 / 2680.0
Band Edge	5 MHz 10 MHz 15 MHz 20 MHz	QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM QPSK / 16QAM / 64QAM	2498.5 / 2687.5 2501.0 / 2685.0 2503.5 / 2682.5 2506.0 / 2680.0
Frequency Stability	5 MHz 10 MHz 15 MHz 20 MHz	Un-modulation	2593.0 2593.0 2593.0 2593.0

3 Test Results

3.1 Output Power

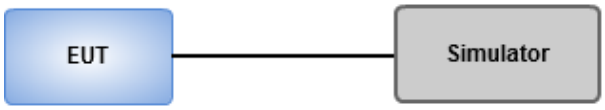
3.1.1 Limit of Output Power

All user stations are limited to 2.0 watts transmitter output power.

3.1.2 Test Procedures

1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT.

3.1.3 Test Setup



3.1.4 Test Results

Channel Bandwidth: 5MHz- QPSK

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39675	2498.5	1	0	20.80	0.120	2	7.7	28.50	0.708
		1	12	21.70	0.148	2	7.7	29.40	0.871
		1	24	20.67	0.117	2	7.7	28.37	0.687
		12	0	20.67	0.117	2	7.7	28.37	0.687
		12	6	20.72	0.118	2	7.7	28.42	0.695
		12	11	20.67	0.117	2	7.7	28.37	0.687
		25	0	20.61	0.115	2	7.7	28.31	0.678
40620	2593.0	1	0	20.92	0.124	2	7.7	28.62	0.728
		1	12	21.75	0.150	2	7.7	29.45	0.881
		1	24	20.67	0.117	2	7.7	28.37	0.687
		12	0	20.86	0.122	2	7.7	28.56	0.718
		12	6	20.86	0.122	2	7.7	28.56	0.718
		12	11	20.74	0.119	2	7.7	28.44	0.698
		25	0	20.74	0.119	2	7.7	28.44	0.698
41565	2687.5	1	0	21.06	0.128	2	7.7	28.76	0.752
		1	12	22.08	0.161	2	7.7	29.78	0.951
		1	24	20.77	0.119	2	7.7	28.47	0.703
		12	0	20.87	0.122	2	7.7	28.57	0.719
		12	6	20.89	0.123	2	7.7	28.59	0.723
		12	11	20.90	0.123	2	7.7	28.60	0.724
		25	0	20.81	0.121	2	7.7	28.51	0.710

Channel Bandwidth: 5MHz- 16QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39675	2498.5	1	0	20.23	0.105	2	7.7	27.93	0.621
		1	12	21.11	0.129	2	7.7	28.81	0.760
		1	24	20.04	0.101	2	7.7	27.74	0.594
		12	0	20.16	0.104	2	7.7	27.86	0.611
		12	6	20.28	0.107	2	7.7	27.98	0.628
		12	11	20.17	0.104	2	7.7	27.87	0.612
		25	0	20.19	0.104	2	7.7	27.89	0.615
40620	2593.0	1	0	20.44	0.111	2	7.7	28.14	0.652
		1	12	21.26	0.134	2	7.7	28.96	0.787
		1	24	20.15	0.104	2	7.7	27.85	0.610
		12	0	20.42	0.110	2	7.7	28.12	0.649
		12	6	20.43	0.110	2	7.7	28.13	0.650
		12	11	20.31	0.107	2	7.7	28.01	0.632
		25	0	20.34	0.108	2	7.7	28.04	0.637
41565	2687.5	1	0	20.44	0.111	2	7.7	28.14	0.652
		1	12	21.40	0.138	2	7.7	29.10	0.813
		1	24	20.15	0.104	2	7.7	27.85	0.610
		12	0	20.44	0.111	2	7.7	28.14	0.652
		12	6	20.46	0.111	2	7.7	28.16	0.655
		12	11	20.39	0.109	2	7.7	28.09	0.644
		25	0	20.41	0.110	2	7.7	28.11	0.647

Channel Bandwidth: 5MHz- 64QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39675	2498.5	1	0	20.21	0.105	2	7.7	27.91	0.618
		1	12	21.11	0.129	2	7.7	28.81	0.760
		1	24	20.03	0.101	2	7.7	27.73	0.593
		12	0	20.15	0.104	2	7.7	27.85	0.610
		12	6	20.26	0.106	2	7.7	27.96	0.625
		12	11	20.15	0.104	2	7.7	27.85	0.610
		25	0	20.19	0.104	2	7.7	27.89	0.615
40620	2593.0	1	0	20.43	0.110	2	7.7	28.13	0.650
		1	12	21.25	0.133	2	7.7	28.95	0.785
		1	24	20.14	0.103	2	7.7	27.84	0.608
		12	0	20.39	0.109	2	7.7	28.09	0.644
		12	6	20.39	0.109	2	7.7	28.09	0.644
		12	11	20.29	0.107	2	7.7	27.99	0.630
		25	0	20.32	0.108	2	7.7	28.02	0.634
41565	2687.5	1	0	20.41	0.110	2	7.7	28.11	0.647
		1	12	21.39	0.138	2	7.7	29.09	0.811
		1	24	20.13	0.103	2	7.7	27.83	0.607
		12	0	20.40	0.110	2	7.7	28.10	0.646
		12	6	20.46	0.111	2	7.7	28.16	0.655
		12	11	20.36	0.109	2	7.7	28.06	0.640
		25	0	20.40	0.110	2	7.7	28.10	0.646

Channel Bandwidth: 10MHz- QPSK

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39700	2501.0	1	0	20.55	0.114	2	7.7	28.25	0.668
		1	24	21.12	0.129	2	7.7	28.82	0.762
		1	49	20.63	0.116	2	7.7	28.33	0.681
		25	0	20.65	0.116	2	7.7	28.35	0.684
		25	12	20.76	0.119	2	7.7	28.46	0.701
		25	24	20.71	0.118	2	7.7	28.41	0.693
		50	0	20.66	0.116	2	7.7	28.36	0.685
40620	2593.0	1	0	20.68	0.117	2	7.7	28.38	0.689
		1	24	21.14	0.130	2	7.7	28.84	0.766
		1	49	20.61	0.115	2	7.7	28.31	0.678
		25	0	20.78	0.120	2	7.7	28.48	0.705
		25	12	20.79	0.120	2	7.7	28.49	0.706
		25	24	20.68	0.117	2	7.7	28.38	0.689
		50	0	20.71	0.118	2	7.7	28.41	0.693
41540	2685.0	1	0	20.71	0.118	2	7.7	28.41	0.693
		1	24	21.28	0.134	2	7.7	28.98	0.791
		1	49	20.68	0.117	2	7.7	28.38	0.689
		25	0	20.73	0.118	2	7.7	28.43	0.697
		25	12	20.83	0.121	2	7.7	28.53	0.713
		25	24	20.69	0.117	2	7.7	28.39	0.690
		50	0	20.72	0.118	2	7.7	28.42	0.695

Channel Bandwidth: 10MHz- 16QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39700	2501.0	1	0	20.09	0.102	2	7.7	27.79	0.601
		1	24	20.52	0.113	2	7.7	28.22	0.664
		1	49	20.08	0.102	2	7.7	27.78	0.600
		25	0	20.23	0.105	2	7.7	27.93	0.621
		25	12	20.30	0.107	2	7.7	28.00	0.631
		25	24	20.21	0.105	2	7.7	27.91	0.618
		50	0	20.14	0.103	2	7.7	27.84	0.608
40620	2593.0	1	0	20.10	0.102	2	7.7	27.80	0.603
		1	24	20.61	0.115	2	7.7	28.31	0.678
		1	49	20.17	0.104	2	7.7	27.87	0.612
		25	0	20.37	0.109	2	7.7	28.07	0.641
		25	12	20.45	0.111	2	7.7	28.15	0.653
		25	24	20.34	0.108	2	7.7	28.04	0.637
		50	0	20.30	0.107	2	7.7	28.00	0.631
41540	2685.0	1	0	20.16	0.104	2	7.7	27.86	0.611
		1	24	20.66	0.116	2	7.7	28.36	0.685
		1	49	20.07	0.102	2	7.7	27.77	0.598
		25	0	20.32	0.108	2	7.7	28.02	0.634
		25	12	20.42	0.110	2	7.7	28.12	0.649
		25	24	20.29	0.107	2	7.7	27.99	0.630
		50	0	20.24	0.106	2	7.7	27.94	0.622

Channel Bandwidth: 10MHz- 64QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39700	2501.0	1	0	20.02	0.100	2	7.7	27.72	0.592
		1	24	20.43	0.110	2	7.7	28.13	0.650
		1	49	20.01	0.100	2	7.7	27.71	0.590
		25	0	20.19	0.104	2	7.7	27.89	0.615
		25	12	20.20	0.105	2	7.7	27.90	0.617
		25	24	20.16	0.104	2	7.7	27.86	0.611
		50	0	20.09	0.102	2	7.7	27.79	0.601
40620	2593.0	1	0	20.03	0.101	2	7.7	27.73	0.593
		1	24	20.51	0.112	2	7.7	28.21	0.662
		1	49	20.10	0.102	2	7.7	27.80	0.603
		25	0	20.31	0.107	2	7.7	28.01	0.632
		25	12	20.39	0.109	2	7.7	28.09	0.644
		25	24	20.29	0.107	2	7.7	27.99	0.630
		50	0	20.22	0.105	2	7.7	27.92	0.619
41540	2685.0	1	0	20.08	0.102	2	7.7	27.78	0.600
		1	24	20.56	0.114	2	7.7	28.26	0.670
		1	49	20.02	0.100	2	7.7	27.72	0.592
		25	0	20.26	0.106	2	7.7	27.96	0.625
		25	12	20.35	0.108	2	7.7	28.05	0.638
		25	24	20.24	0.106	2	7.7	27.94	0.622
		50	0	20.18	0.104	2	7.7	27.88	0.614

Channel Bandwidth: 15MHz- QPSK

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39725	2503.5	1	0	20.55	0.114	2	7.7	28.25	0.668
		1	37	21.79	0.151	2	7.7	29.49	0.889
		1	74	20.69	0.117	2	7.7	28.39	0.690
		36	0	20.66	0.116	2	7.7	28.36	0.685
		36	18	20.85	0.122	2	7.7	28.55	0.716
		36	37	20.74	0.119	2	7.7	28.44	0.698
		75	0	20.63	0.116	2	7.7	28.33	0.681
40620	2593.0	1	0	20.66	0.116	2	7.7	28.36	0.685
		1	37	21.73	0.149	2	7.7	29.43	0.877
		1	74	20.64	0.116	2	7.7	28.34	0.682
		36	0	20.73	0.118	2	7.7	28.43	0.697
		36	18	20.84	0.121	2	7.7	28.54	0.714
		36	37	20.70	0.117	2	7.7	28.40	0.692
		75	0	20.71	0.118	2	7.7	28.41	0.693
41515	2682.5	1	0	20.68	0.117	2	7.7	28.38	0.689
		1	37	21.95	0.157	2	7.7	29.65	0.923
		1	74	20.81	0.121	2	7.7	28.51	0.710
		36	0	20.66	0.116	2	7.7	28.36	0.685
		36	18	20.86	0.122	2	7.7	28.56	0.718
		36	37	20.68	0.117	2	7.7	28.38	0.689
		75	0	20.62	0.115	2	7.7	28.32	0.679

Channel Bandwidth: 15MHz- 16QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39725	2503.5	1	0	20.07	0.102	2	7.7	27.77	0.598
		1	37	21.25	0.133	2	7.7	28.95	0.785
		1	74	20.07	0.102	2	7.7	27.77	0.598
		36	0	20.18	0.104	2	7.7	27.88	0.614
		36	18	20.27	0.106	2	7.7	27.97	0.627
		36	37	20.16	0.104	2	7.7	27.86	0.611
		75	0	20.10	0.102	2	7.7	27.80	0.603
40620	2593.0	1	0	20.14	0.103	2	7.7	27.84	0.608
		1	37	21.20	0.132	2	7.7	28.90	0.776
		1	74	20.13	0.103	2	7.7	27.83	0.607
		36	0	20.26	0.106	2	7.7	27.96	0.625
		36	18	20.36	0.109	2	7.7	28.06	0.640
		36	37	20.23	0.105	2	7.7	27.93	0.621
		75	0	20.25	0.106	2	7.7	27.95	0.624
41515	2682.5	1	0	20.18	0.104	2	7.7	27.88	0.614
		1	37	21.29	0.135	2	7.7	28.99	0.793
		1	74	20.16	0.104	2	7.7	27.86	0.611
		36	0	20.21	0.105	2	7.7	27.91	0.618
		36	18	20.37	0.109	2	7.7	28.07	0.641
		36	37	20.19	0.104	2	7.7	27.89	0.615
		75	0	20.16	0.104	2	7.7	27.86	0.611

Channel Bandwidth: 15MHz- 64QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39725	2503.5	1	0	20.03	0.101	2	7.7	27.73	0.593
		1	37	21.19	0.132	2	7.7	28.89	0.774
		1	74	20.01	0.100	2	7.7	27.71	0.590
		36	0	20.16	0.104	2	7.7	27.86	0.611
		36	18	20.21	0.105	2	7.7	27.91	0.618
		36	37	20.11	0.103	2	7.7	27.81	0.604
		75	0	20.02	0.100	2	7.7	27.72	0.592
40620	2593.0	1	0	20.09	0.102	2	7.7	27.79	0.601
		1	37	21.11	0.129	2	7.7	28.81	0.760
		1	74	20.09	0.102	2	7.7	27.79	0.601
		36	0	20.16	0.104	2	7.7	27.86	0.611
		36	18	20.25	0.106	2	7.7	27.95	0.624
		36	37	20.19	0.104	2	7.7	27.89	0.615
		75	0	20.20	0.105	2	7.7	27.90	0.617
41515	2682.5	1	0	20.15	0.104	2	7.7	27.85	0.610
		1	37	21.25	0.133	2	7.7	28.95	0.785
		1	74	20.09	0.102	2	7.7	27.79	0.601
		36	0	20.16	0.104	2	7.7	27.86	0.611
		36	18	20.31	0.107	2	7.7	28.01	0.632
		36	37	20.11	0.103	2	7.7	27.81	0.604
		75	0	20.09	0.102	2	7.7	27.79	0.601

Channel Bandwidth: 20MHz- QPSK

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39750	2506.0	1	0	21.05	0.127	2	7.7	28.75	0.750
		1	49	21.87	0.154	2	7.7	29.57	0.906
		1	99	20.76	0.119	2	7.7	28.46	0.701
		50	0	20.83	0.121	2	7.7	28.53	0.713
		50	24	20.95	0.124	2	7.7	28.65	0.733
		50	49	20.84	0.121	2	7.7	28.54	0.714
		100	0	20.76	0.119	2	7.7	28.46	0.701
40620	2593.0	1	0	21.06	0.128	2	7.7	28.76	0.752
		1	49	21.82	0.152	2	7.7	29.52	0.895
		1	99	20.60	0.115	2	7.7	28.30	0.676
		50	0	20.82	0.121	2	7.7	28.52	0.711
		50	24	20.85	0.122	2	7.7	28.55	0.716
		50	49	20.78	0.120	2	7.7	28.48	0.705
		100	0	20.79	0.120	2	7.7	28.49	0.706
41490	2680.0	1	0	21.12	0.129	2	7.7	28.82	0.762
		1	49	21.89	0.155	2	7.7	29.59	0.910
		1	99	20.56	0.114	2	7.7	28.26	0.670
		50	0	20.77	0.119	2	7.7	28.47	0.703
		50	24	20.91	0.123	2	7.7	28.61	0.726
		50	49	20.73	0.118	2	7.7	28.43	0.697
		100	0	20.63	0.116	2	7.7	28.33	0.681

Channel Bandwidth: 20MHz- 16QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39750	2506.0	1	0	20.44	0.111	2	7.7	28.14	0.652
		1	49	21.27	0.134	2	7.7	28.97	0.789
		1	99	20.12	0.103	2	7.7	27.82	0.605
		50	0	20.32	0.108	2	7.7	28.02	0.634
		50	24	20.38	0.109	2	7.7	28.08	0.643
		50	49	20.25	0.106	2	7.7	27.95	0.624
		100	0	20.16	0.104	2	7.7	27.86	0.611
40620	2593.0	1	0	20.48	0.112	2	7.7	28.18	0.658
		1	49	21.29	0.135	2	7.7	28.99	0.793
		1	99	20.11	0.103	2	7.7	27.81	0.604
		50	0	20.34	0.108	2	7.7	28.04	0.637
		50	24	20.37	0.109	2	7.7	28.07	0.641
		50	49	20.30	0.107	2	7.7	28.00	0.631
		100	0	20.30	0.107	2	7.7	28.00	0.631
41490	2680.0	1	0	20.60	0.115	2	7.7	28.30	0.676
		1	49	21.35	0.136	2	7.7	29.05	0.804
		1	99	20.07	0.102	2	7.7	27.77	0.598
		50	0	20.31	0.107	2	7.7	28.01	0.632
		50	24	20.43	0.110	2	7.7	28.13	0.650
		50	49	20.25	0.106	2	7.7	27.95	0.624
		100	0	20.15	0.104	2	7.7	27.85	0.610

Channel Bandwidth: 20MHz- 64QAM

Channel	Channel Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Conducted Average Power (W)	Conducted Limit (W)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.I.R.P Power (W)
39750	2506.0	1	0	20.39	0.109	2	7.7	28.09	0.644
		1	49	21.16	0.131	2	7.7	28.86	0.769
		1	99	20.04	0.101	2	7.7	27.74	0.594
		50	0	20.26	0.106	2	7.7	27.96	0.625
		50	24	20.29	0.107	2	7.7	27.99	0.630
		50	49	20.16	0.104	2	7.7	27.86	0.611
		100	0	20.08	0.102	2	7.7	27.78	0.600
40620	2593.0	1	0	20.41	0.110	2	7.7	28.11	0.647
		1	49	21.23	0.133	2	7.7	28.93	0.782
		1	99	20.06	0.101	2	7.7	27.76	0.597
		50	0	20.28	0.107	2	7.7	27.98	0.628
		50	24	20.31	0.107	2	7.7	28.01	0.632
		50	49	20.22	0.105	2	7.7	27.92	0.619
		100	0	20.21	0.105	2	7.7	27.91	0.618
41490	2680.0	1	0	20.51	0.112	2	7.7	28.21	0.662
		1	49	21.28	0.134	2	7.7	28.98	0.791
		1	99	20.01	0.100	2	7.7	27.71	0.590
		50	0	20.26	0.106	2	7.7	27.96	0.625
		50	24	20.39	0.109	2	7.7	28.09	0.644
		50	49	20.19	0.104	2	7.7	27.89	0.615
		100	0	20.09	0.102	2	7.7	27.79	0.601

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

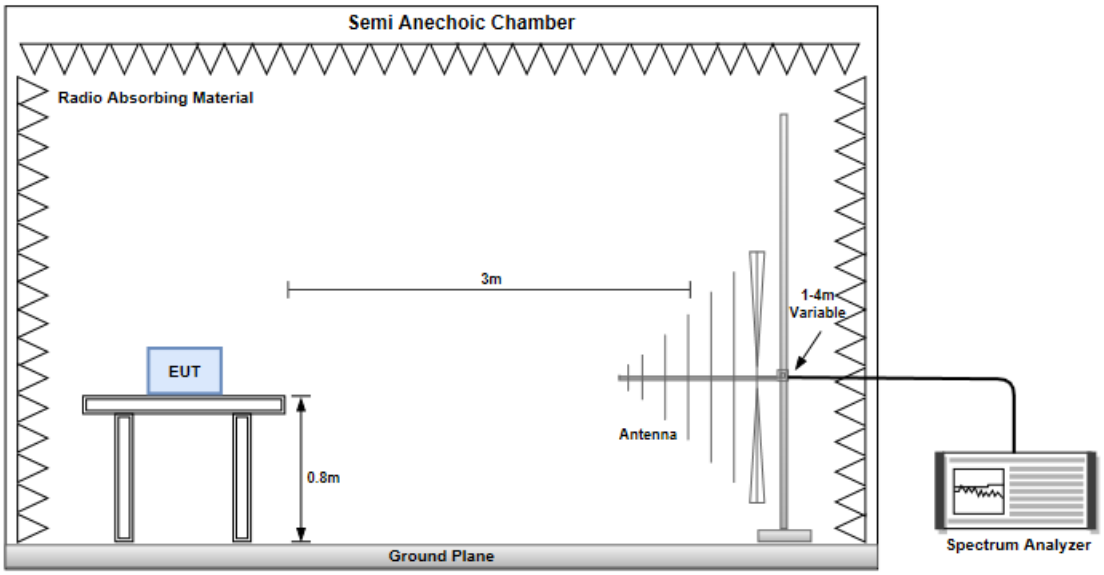
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB equal to -13dBm.

3.2.2 Test Procedures

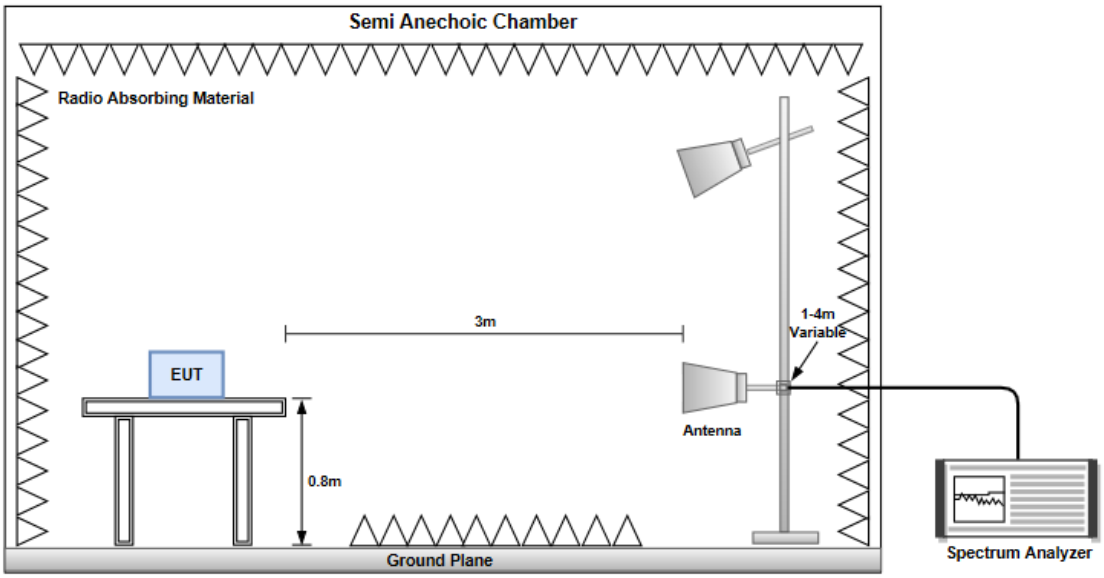
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode		CB:5MHz, 1RB, Offset 12, Channel: 41565					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
32.48	H	-63.84	-13.00	-50.84	-71.73	-50.24	-13.60
162.48	H	-66.07	-13.00	-53.07	-65.63	-66.13	0.06
251.43	H	-49.39	-13.00	-36.39	-46.93	-53.84	4.45
486.85	H	-59.79	-13.00	-46.79	-63.98	-63.90	4.11
626.32	H	-53.14	-13.00	-40.14	-59.27	-56.84	3.70
803.27	H	-63.43	-13.00	-50.43	-73.05	-66.94	3.51
30.26	V	-54.76	-13.00	-41.76	-52.27	-40.62	-14.14
161.83	V	-64.92	-13.00	-51.92	-67.50	-64.89	-0.03
253.41	V	-50.27	-13.00	-37.27	-52.74	-54.72	4.45
503.35	V	-49.37	-13.00	-36.37	-54.69	-53.50	4.13
621.36	V	-53.82	-13.00	-40.82	-63.20	-57.49	3.67
736.85	V	-64.08	-13.00	-51.08	-73.69	-67.59	3.51

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:10MHz, 1RB, Offset 24, Channel: 41540					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.85	H	-62.91	-13.00	-49.91	-70.83	-48.91	-14.00
163.82	H	-66.28	-13.00	-53.28	-65.79	-66.51	0.23
245.31	H	-46.89	-13.00	-33.89	-44.24	-51.34	4.45
497.21	H	-59.36	-13.00	-46.36	-63.74	-63.49	4.13
629.43	H	-53.29	-13.00	-40.29	-59.46	-57.01	3.72
805.74	H	-63.27	-13.00	-50.27	-72.91	-66.77	3.50
32.84	V	-55.95	-13.00	-42.95	-53.52	-42.43	-13.52
221.48	V	-65.03	-13.00	-52.03	-67.12	-69.42	4.39
236.43	V	-50.15	-13.00	-37.15	-52.46	-54.57	4.42
503.52	V	-49.64	-13.00	-36.64	-54.97	-53.77	4.13
628.17	V	-54.37	-13.00	-41.37	-63.71	-58.08	3.71
752.93	V	-64.42	-13.00	-51.42	-74.23	-67.86	3.44

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:15MHz, 1RB, Offset 37, Channel:41515					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.84	H	-63.93	-13.00	-50.93	-71.85	-49.93	-14.00
164.27	H	-66.27	-13.00	-53.27	-65.76	-66.56	0.29
253.43	H	-46.84	-13.00	-33.84	-44.44	-51.29	4.45
505.97	H	-60.02	-13.00	-47.02	-64.52	-64.14	4.12
631.57	H	-53.68	-13.00	-40.68	-59.88	-57.42	3.74
808.39	H	-63.81	-13.00	-50.81	-73.46	-67.31	3.50
30.48	V	-57.21	-13.00	-44.21	-54.72	-43.13	-14.08
221.47	V	-64.85	-13.00	-51.85	-66.94	-69.24	4.39
253.48	V	-50.04	-13.00	-37.04	-52.51	-54.49	4.45
494.82	V	-55.92	-13.00	-42.92	-60.95	-60.05	4.13
620.41	V	-54.28	-13.00	-41.28	-63.66	-57.95	3.67
753.48	V	-63.41	-13.00	-50.41	-73.22	-66.86	3.45

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:20MHz, 1RB, Offset 49, Channel:41490					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
32.41	H	-63.94	-13.00	-50.94	-71.83	-50.32	-13.62
161.28	H	-66.31	-13.00	-53.31	-65.91	-66.21	-0.10
253.43	H	-47.31	-13.00	-34.31	-44.91	-51.76	4.45
503.65	H	-58.69	-13.00	-45.69	-63.16	-62.82	4.13
627.48	H	-53.21	-13.00	-40.21	-59.36	-56.92	3.71
803.41	H	-63.53	-13.00	-50.53	-73.15	-67.04	3.51
31.57	V	-56.21	-13.00	-43.21	-53.75	-42.39	-13.82
168.53	V	-65.37	-13.00	-52.37	-68.00	-66.20	0.83
242.84	V	-50.33	-13.00	-37.33	-52.74	-54.77	4.44
506.81	V	-49.41	-13.00	-36.41	-54.89	-53.53	4.12
629.48	V	-54.61	-13.00	-41.61	-63.95	-58.33	3.72
751.48	V	-63.52	-13.00	-50.52	-73.33	-66.96	3.44

Note: EIRP = S.G Power value + Correction factor.

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode	CB:5MHz, 1RB, Offset 12, Channel: 39675						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
4997.00	H	-43.94	-13.00	-30.94	-61.00	-50.03	6.09
7495.50	H	-35.21	-13.00	-22.21	-56.04	-38.18	2.97
9994.00	H	-38.91	-13.00	-25.91	-64.32	-40.51	1.60
4997.00	V	-46.47	-13.00	-33.47	-63.52	-52.56	6.09
7495.50	V	-40.98	-13.00	-27.98	-62.90	-43.95	2.97
9994.00	V	-40.41	-13.00	-27.41	-63.86	-42.01	1.60
Mode	CB:5MHz, 1RB, Offset 12, Channel: 40620						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5186.00	H	-45.11	-13.00	-32.11	-62.56	-51.29	6.18
7779.00	H	-34.52	-13.00	-21.52	-55.74	-37.60	3.08
10372.00	H	-35.96	-13.00	-22.96	-60.46	-37.24	1.28
5186.00	V	-45.34	-13.00	-32.34	-62.87	-51.52	6.18
7779.00	V	-40.08	-13.00	-27.08	-62.15	-43.16	3.08
10372.00	V	-37.84	-13.00	-24.84	-61.65	-39.12	1.28
Mode	CB:5MHz, 1RB, Offset 12, Channel: 41565						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5375.00	H	-43.39	-13.00	-30.39	-60.42	-49.62	6.23
8062.50	H	-34.84	-13.00	-21.84	-56.42	-37.79	2.95
10750.00	H	-37.31	-13.00	-24.31	-61.19	-38.19	0.88
5375.00	V	-44.49	-13.00	-31.49	-61.91	-50.72	6.23
8062.50	V	-42.07	-13.00	-29.07	-64.67	-45.02	2.95
10750.00	V	-40.36	-13.00	-27.36	-64.41	-41.24	0.88

Note: EIRP = S.G Power value + Correction factor.

Mode	CB:10MHz, 1RB, Offset 24, Channel: 39700						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5002.00	H	-44.39	-13.00	-31.39	-61.45	-50.48	6.09
7503.00	H	-35.51	-13.00	-22.51	-56.33	-38.48	2.97
10004.00	H	-38.65	-13.00	-25.65	-64.11	-40.24	1.59
5002.00	V	-46.37	-13.00	-33.37	-63.43	-52.46	6.09
7503.00	V	-40.42	-13.00	-27.42	-62.32	-43.39	2.97
10004.00	V	-40.21	-13.00	-27.21	-63.68	-41.80	1.59
Mode	CB:10MHz, 1RB, Offset 24, Channel: 40620						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5186.00	H	-45.62	-13.00	-32.62	-63.07	-51.80	6.18
7779.00	H	-35.02	-13.00	-22.02	-56.24	-38.10	3.08
10372.00	H	-36.31	-13.00	-23.31	-60.81	-37.59	1.28
5186.00	V	-45.94	-13.00	-32.94	-63.47	-52.12	6.18
7779.00	V	-40.87	-13.00	-27.87	-62.94	-43.95	3.08
10372.00	V	-38.11	-13.00	-25.11	-61.92	-39.39	1.28
Mode	CB:10MHz, 1RB, Offset 24, Channel: 41540						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5370.00	H	-43.83	-13.00	-30.83	-60.88	-50.06	6.23
8055.00	H	-35.79	-13.00	-22.79	-57.39	-38.74	2.95
10740.00	H	-37.36	-13.00	-24.36	-61.26	-38.25	0.89
5370.00	V	-46.34	-13.00	-33.34	-63.76	-52.57	6.23
8055.00	V	-42.50	-13.00	-29.50	-65.13	-45.45	2.95
10740.00	V	-40.39	-13.00	-27.39	-64.43	-41.28	0.89

Note: EIRP = S.G Power value + Correction factor.

Mode	CB:15MHz, 1RB, Offset 37, Channel: 39725						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5007.00	H	-45.28	-13.00	-32.28	-62.35	-51.37	6.09
7510.50	H	-37.51	-13.00	-24.51	-58.31	-40.49	2.98
10014.00	H	-38.86	-13.00	-25.86	-64.29	-40.44	1.58
5007.00	V	-47.61	-13.00	-34.61	-64.68	-53.70	6.09
7510.50	V	-42.58	-13.00	-29.58	-64.46	-45.56	2.98
10014.00	V	-40.09	-13.00	-27.09	-63.56	-41.67	1.58
Mode	CB:15MHz, 1RB, Offset 37, Channel: 40620						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5186.00	H	-46.52	-13.00	-33.52	-63.97	-52.70	6.18
7779.00	H	-36.93	-13.00	-23.93	-58.15	-40.01	3.08
10372.00	H	-37.20	-13.00	-24.20	-61.70	-38.48	1.28
5186.00	V	-45.41	-13.00	-32.41	-62.94	-51.59	6.18
7779.00	V	-40.52	-13.00	-27.52	-62.59	-43.60	3.08
10372.00	V	-38.56	-13.00	-25.56	-62.37	-39.84	1.28
Mode	CB:15MHz, 1RB, Offset 37, Channel: 41515						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5365.00	H	-45.17	-13.00	-32.17	-62.23	-51.40	6.23
8047.50	H	-37.93	-13.00	-24.93	-59.54	-40.87	2.94
10730.00	H	-37.68	-13.00	-24.68	-61.58	-38.58	0.90
5365.00	V	-46.29	-13.00	-33.29	-63.72	-52.52	6.23
8047.50	V	-42.56	-13.00	-29.56	-65.23	-45.50	2.94
10730.00	V	-40.31	-13.00	-27.31	-64.34	-41.21	0.90

Note: EIRP = S.G Power value + Correction factor.

Mode	CB:20MHz, 1RB, Offset 49, Channel: 39750						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5012.00	H	-45.03	-13.00	-32.03	-62.11	-51.13	6.10
7518.00	H	-38.63	-13.00	-25.63	-59.41	-41.61	2.98
10024.00	H	-38.39	-13.00	-25.39	-63.80	-39.96	1.57
5012.00	V	-46.92	-13.00	-33.92	-64.00	-53.02	6.10
7518.00	V	-40.87	-13.00	-27.87	-62.73	-43.85	2.98
10024.00	V	-40.46	-13.00	-27.46	-63.94	-42.03	1.57
Mode	CB:20MHz, 1RB, Offset 49, Channel: 40620						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5186.00	H	-46.28	-13.00	-33.28	-63.73	-52.46	6.18
7779.00	H	-37.73	-13.00	-24.73	-58.95	-40.81	3.08
10372.00	H	-36.75	-13.00	-23.75	-61.25	-38.03	1.28
5186.00	V	-45.84	-13.00	-32.84	-63.37	-52.02	6.18
7779.00	V	-43.12	-13.00	-30.12	-65.19	-46.20	3.08
10372.00	V	-38.89	-13.00	-25.89	-62.70	-40.17	1.28
Mode	CB:20MHz, 1RB, Offset 49, Channel: 41490						
Frequency (MHz)	**Antenna Polarity**	**E.I.R.P (dBm)**	**Limit (dBm)**	**Margin (dB)**	**S.A Reading (dBm)**	**S.G Power Value (dBm)**	**Correction Factor (dB)**
5360.00	H	-45.21	-13.00	-32.21	-62.28	-51.44	6.23
8040.00	H	-38.54	-13.00	-25.54	-60.17	-41.48	2.94
10720.00	H	-38.15	-13.00	-25.15	-62.07	-39.06	0.91
5360.00	V	-46.84	-13.00	-33.84	-64.27	-53.07	6.23
8040.00	V	-42.77	-13.00	-29.77	-65.47	-45.71	2.94
10720.00	V	-40.03	-13.00	-27.03	-64.06	-40.94	0.91

Note: EIRP = S.G Power value + Correction factor.

3.3 Conducted Emissions

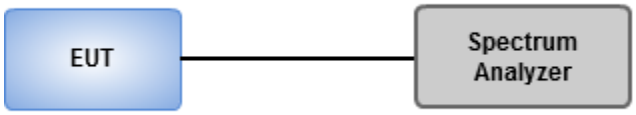
3.3.1 Limit of Conducted Emissions

The power of any emission outside of the authorized operating frequencyranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB equal to -13dBm.

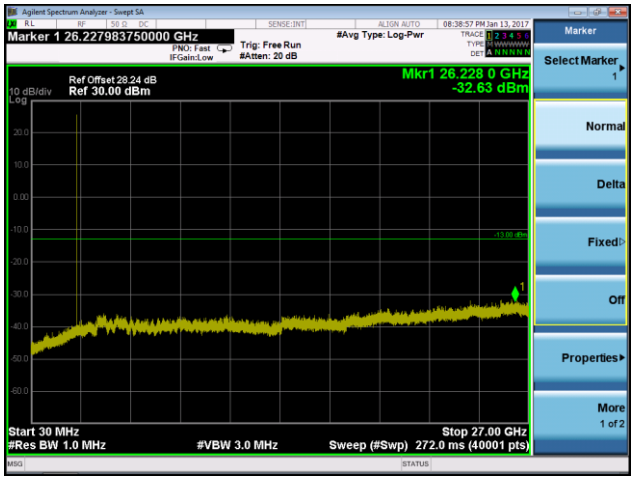
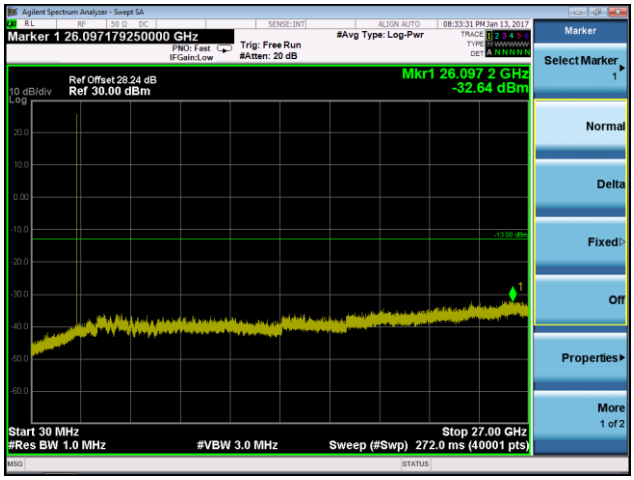
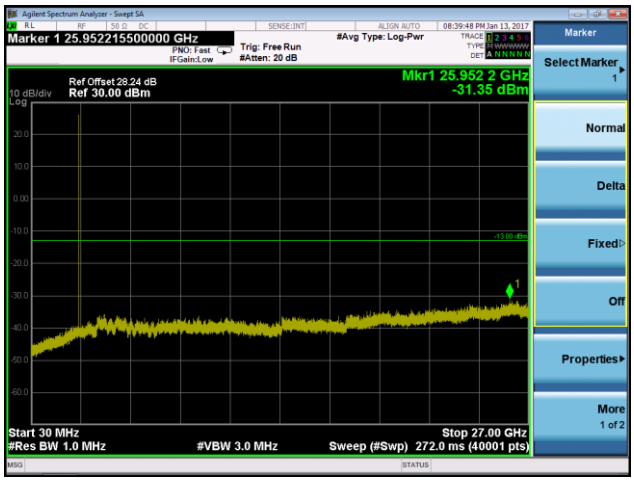
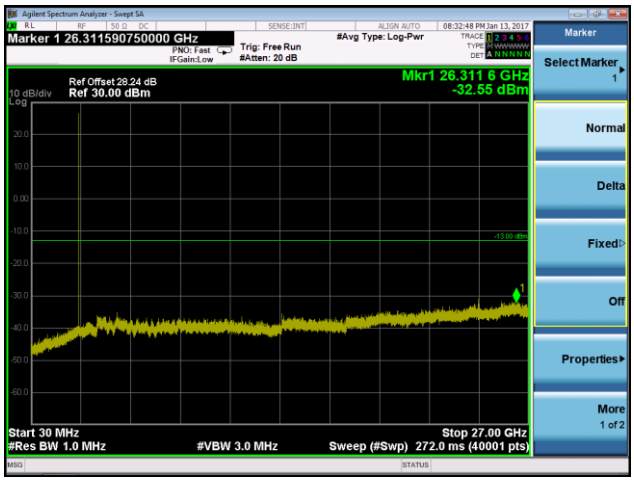
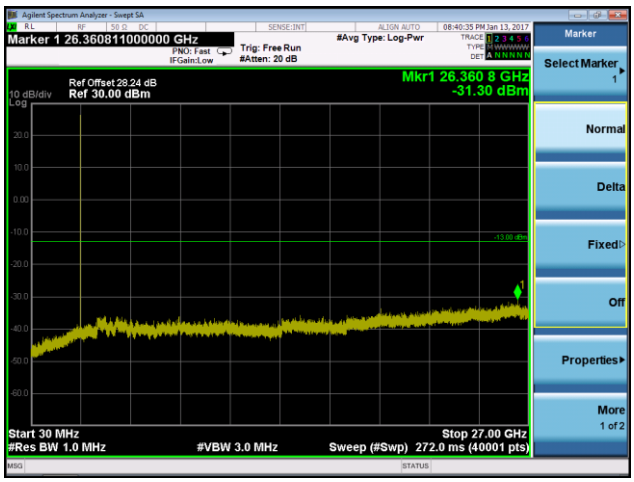
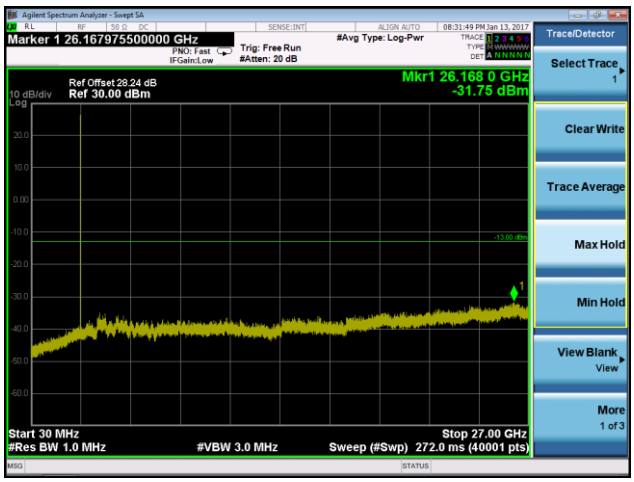
3.3.2 Test Procedures

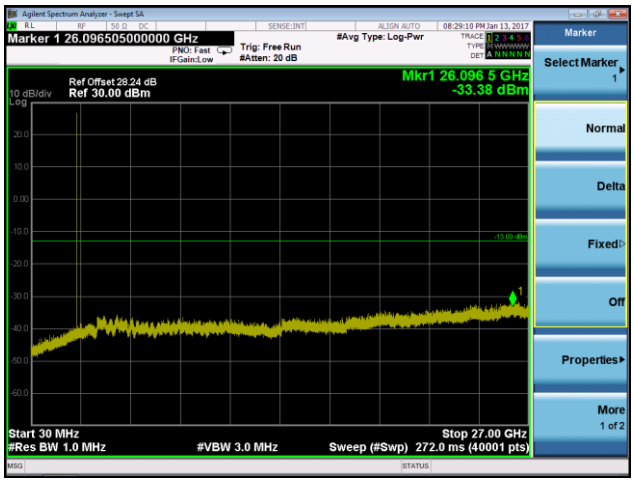
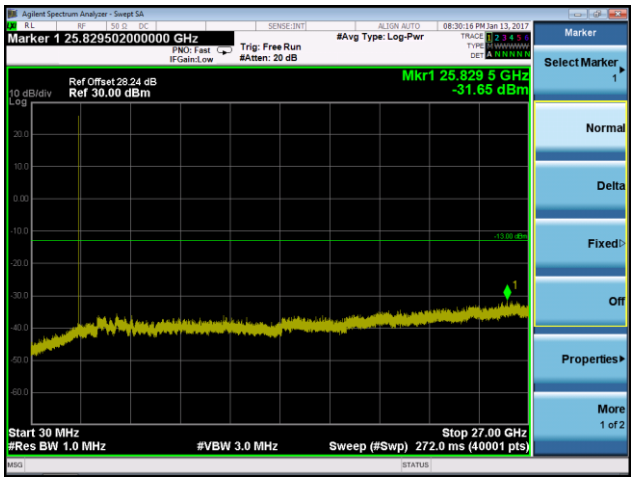
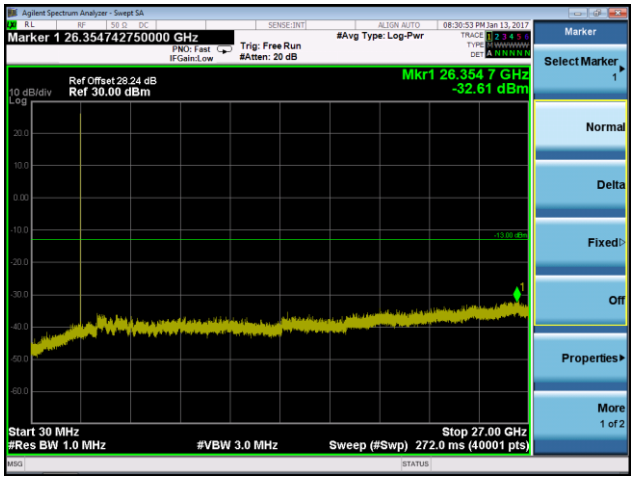
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz~27GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = average, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

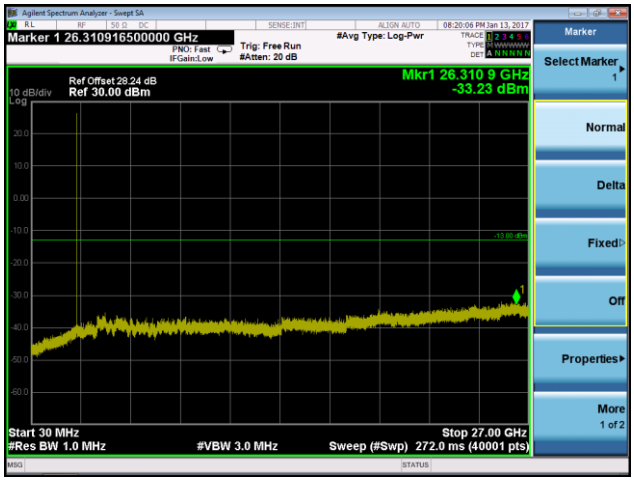
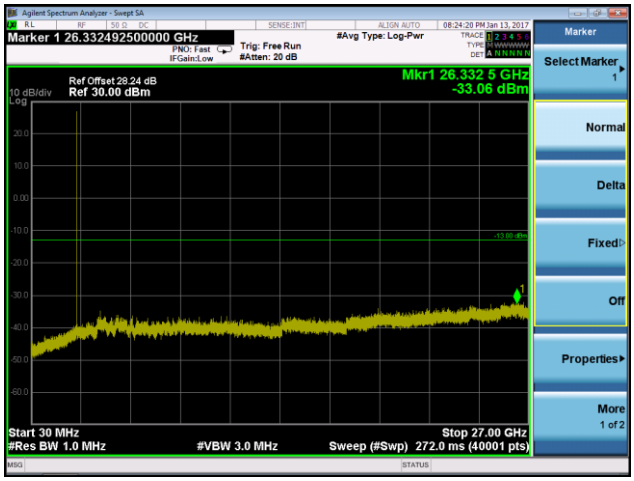
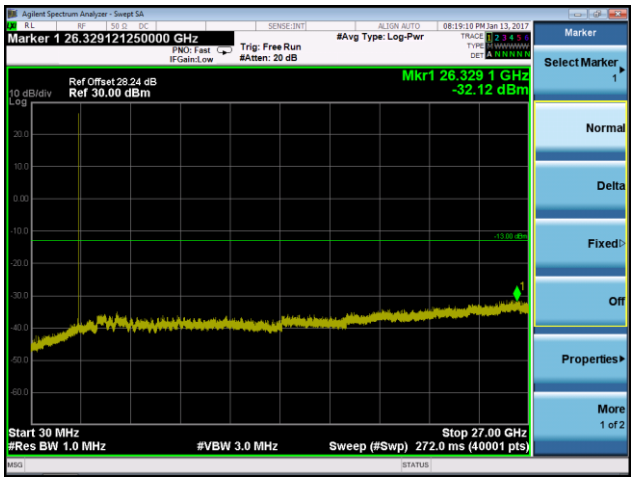
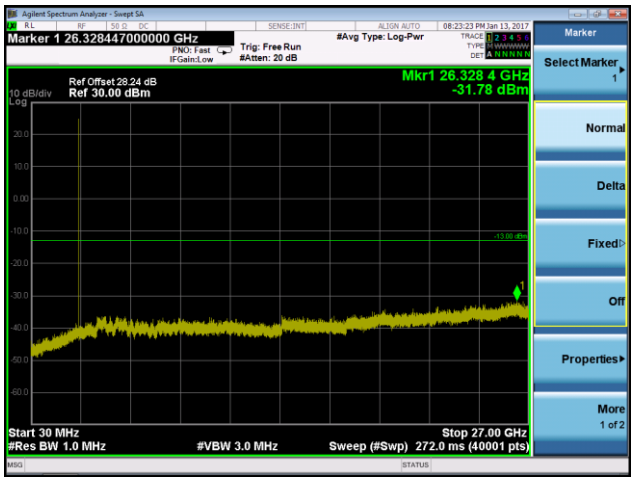
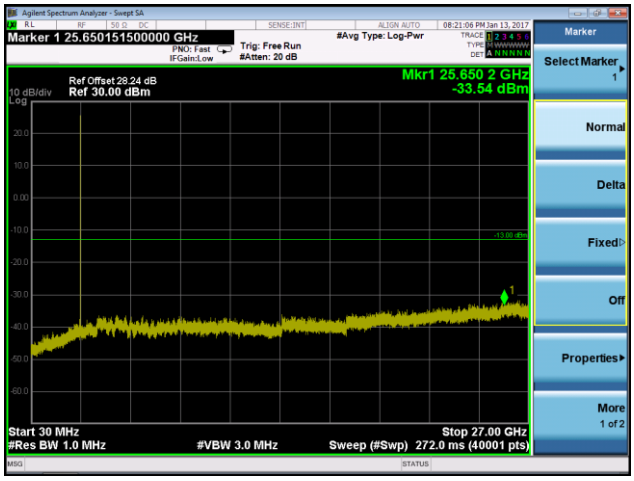
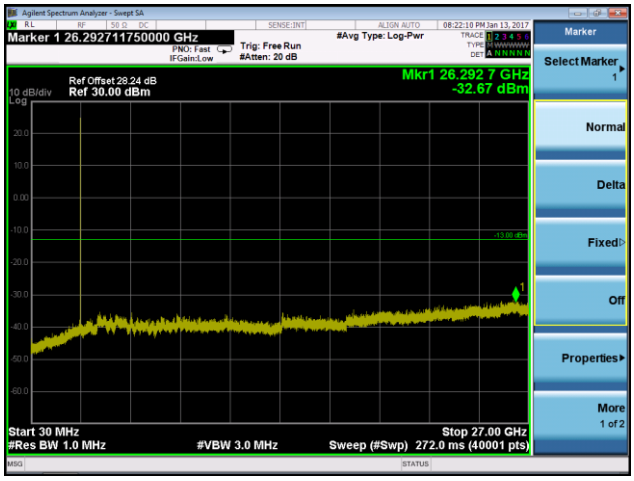
3.3.3 Test Setup

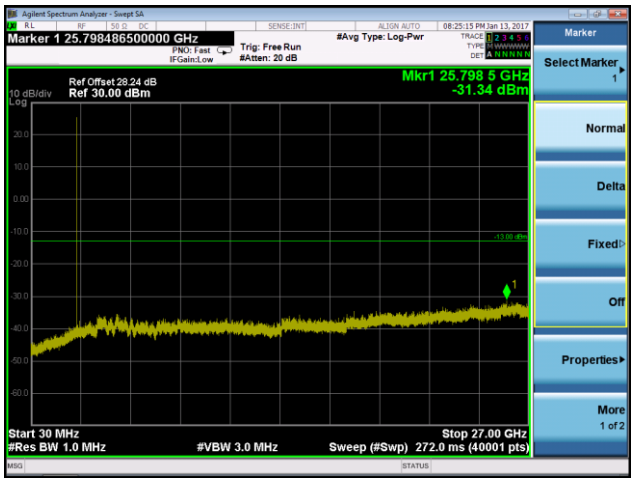
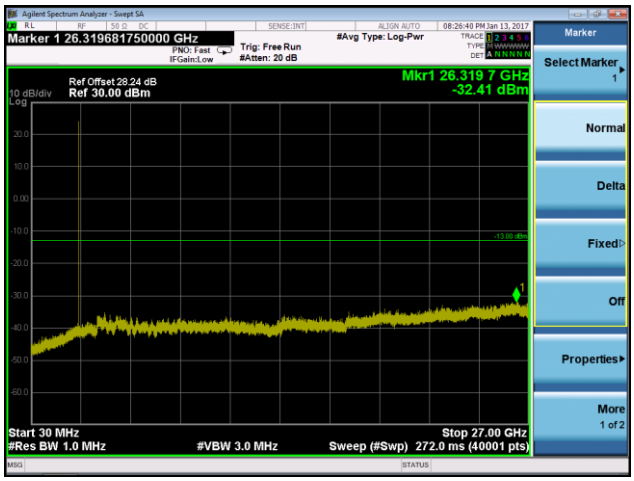
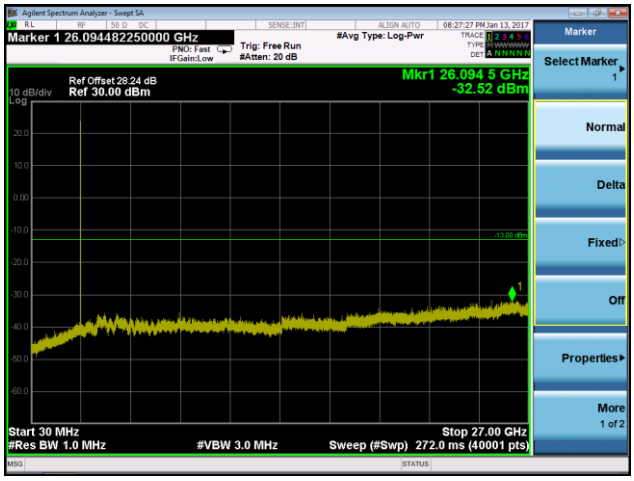


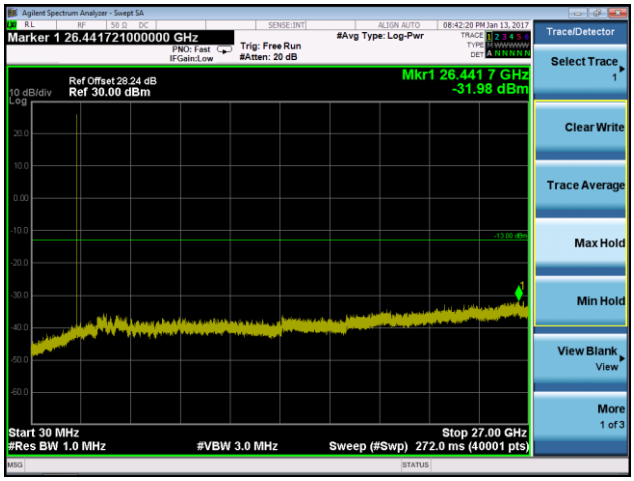
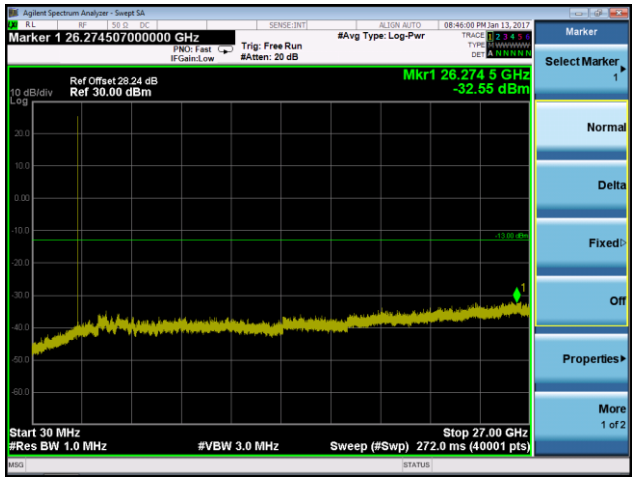
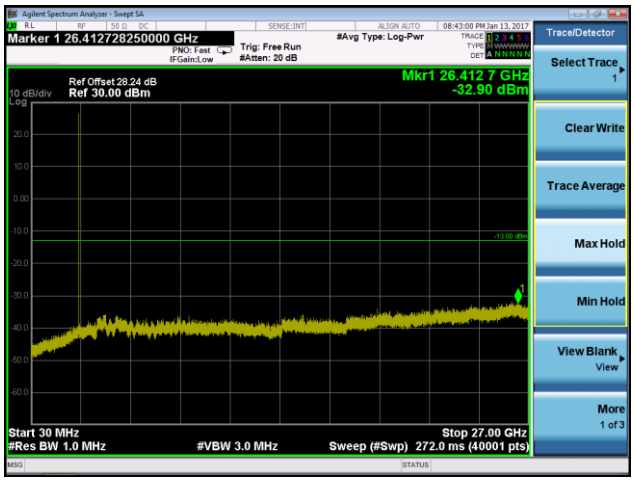
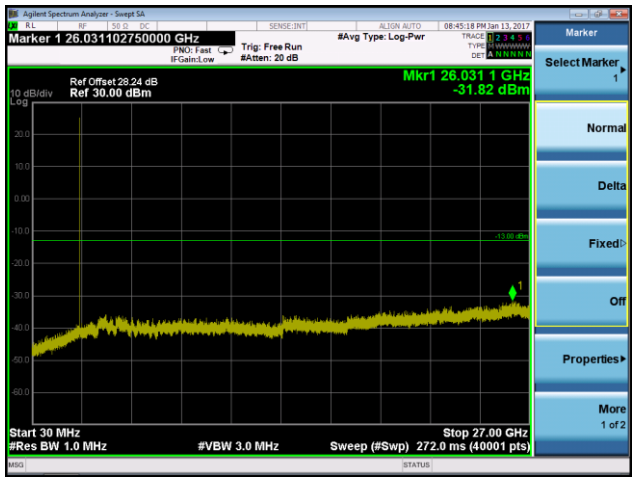
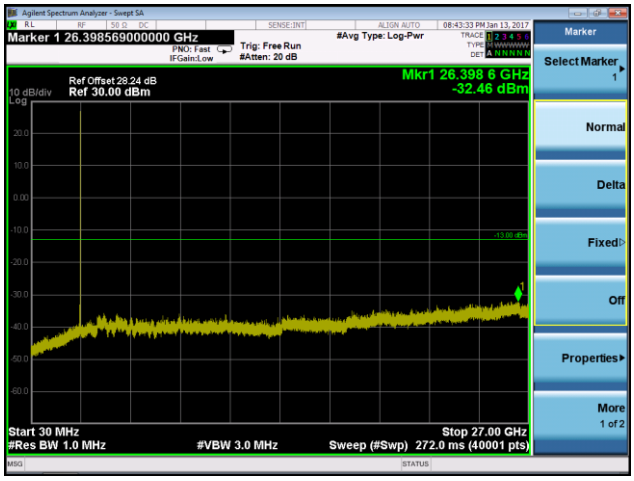
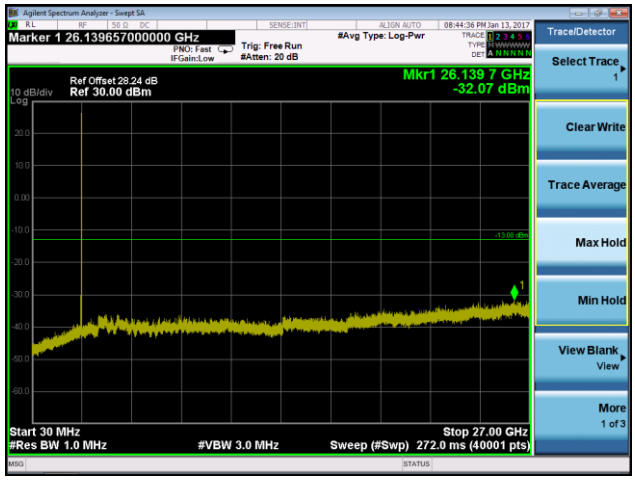
3.3.4 Test Result of Conducted Emissions

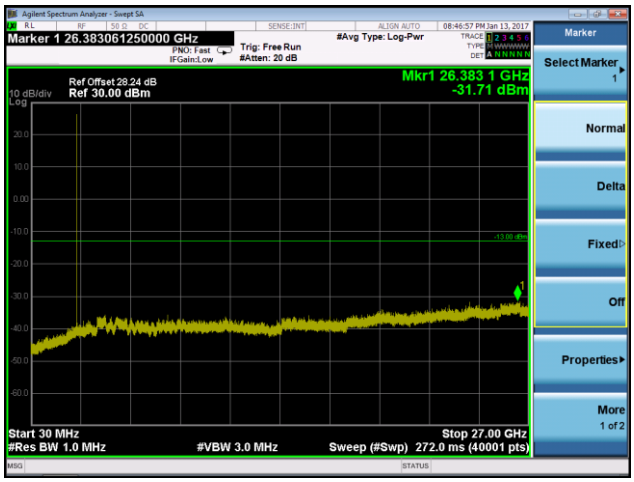
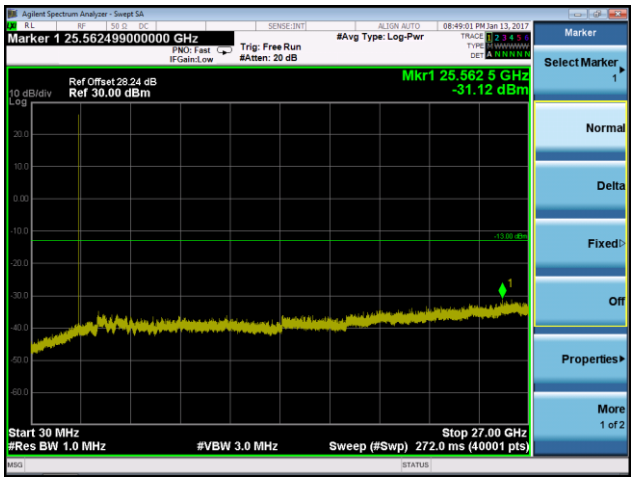
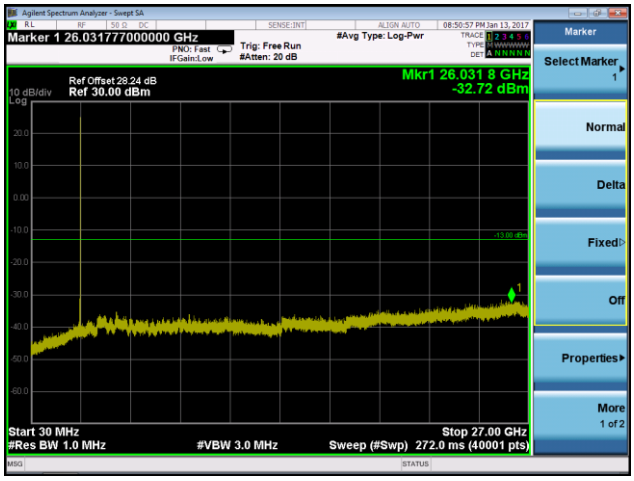
Mode	CB: 5MHz, QPSK	Mode	CB: 5MHz, 16QAM
Low Channel		Low Channel	
			
Mid. Channel		Mid. Channel	
			
High Channel		High Channel	
			

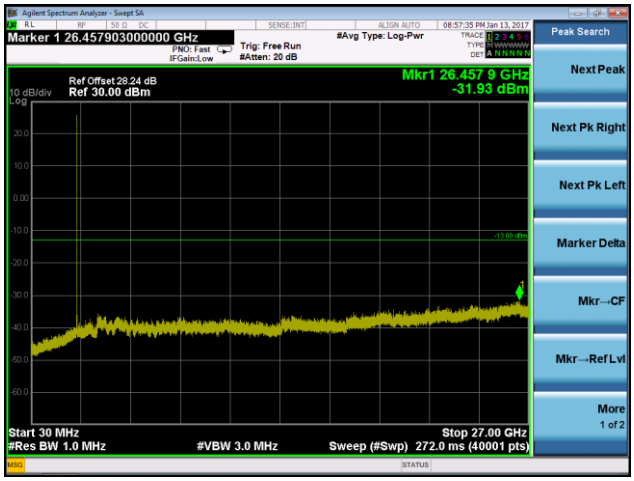
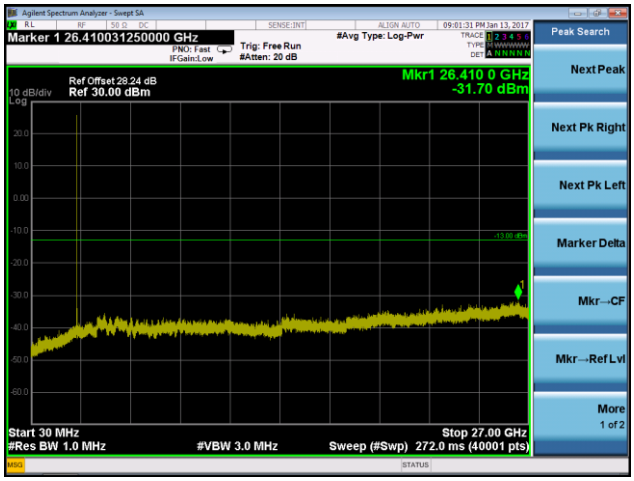
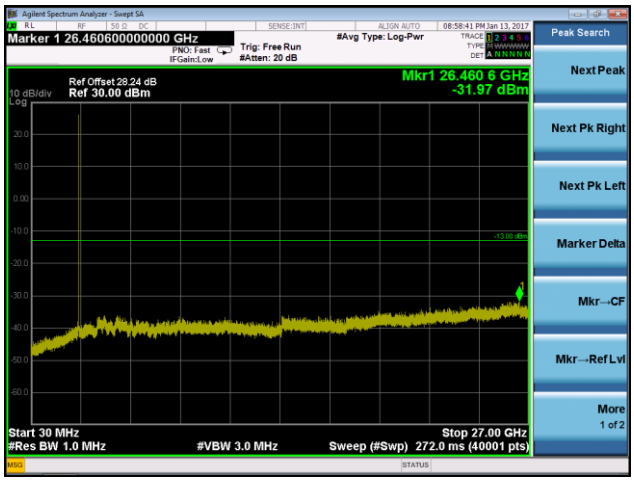
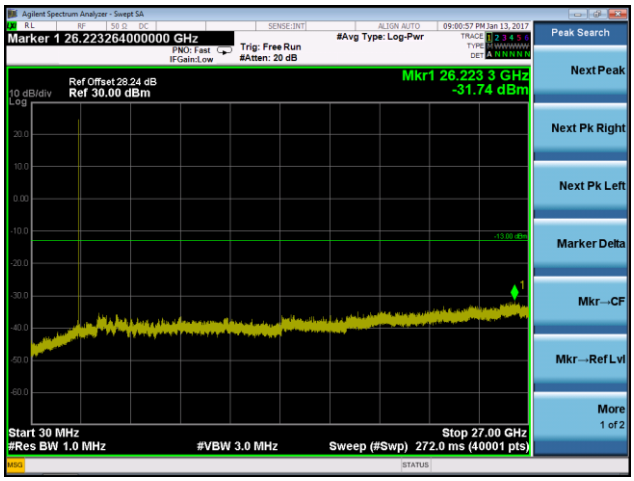
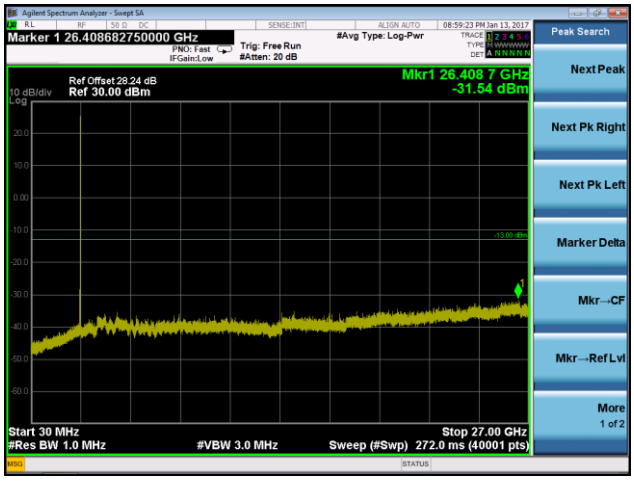
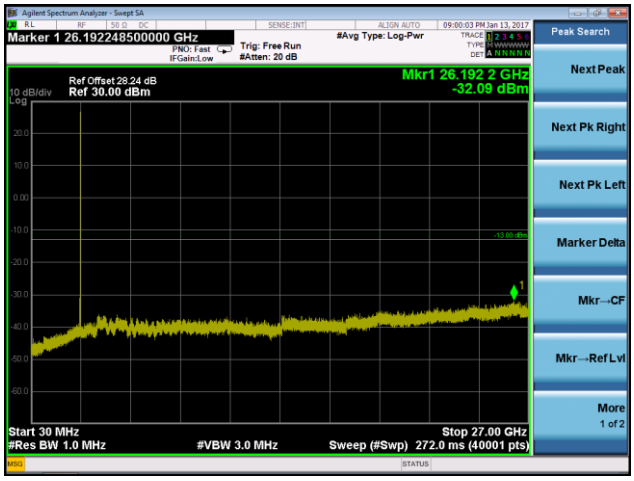
Mode	CB: 5MHz, 64QAM	---
Low Channel		---
	---
Mid. Channel		---
	---
High Channel		---
	---

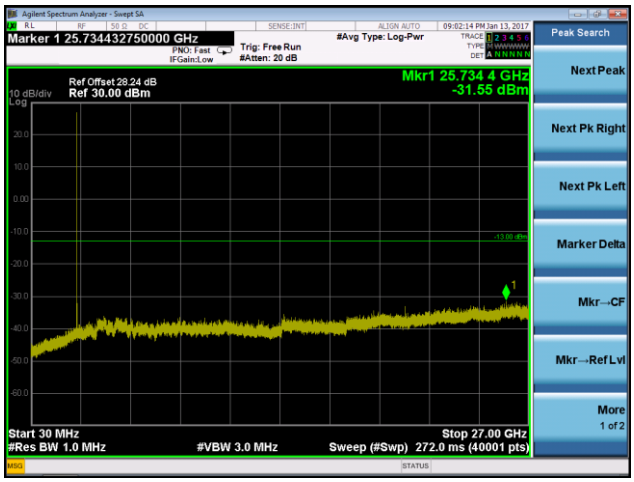
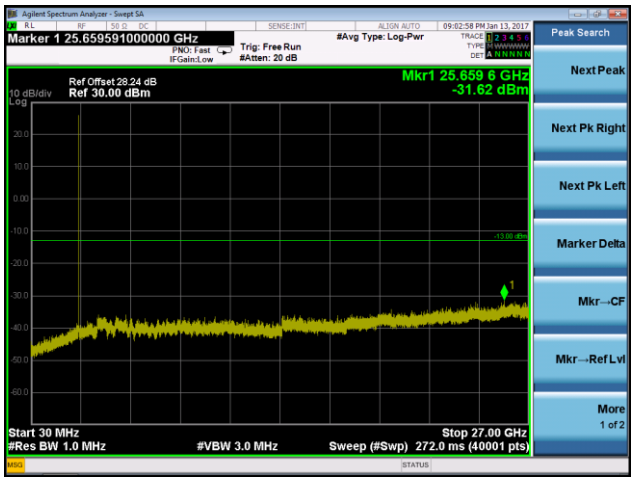
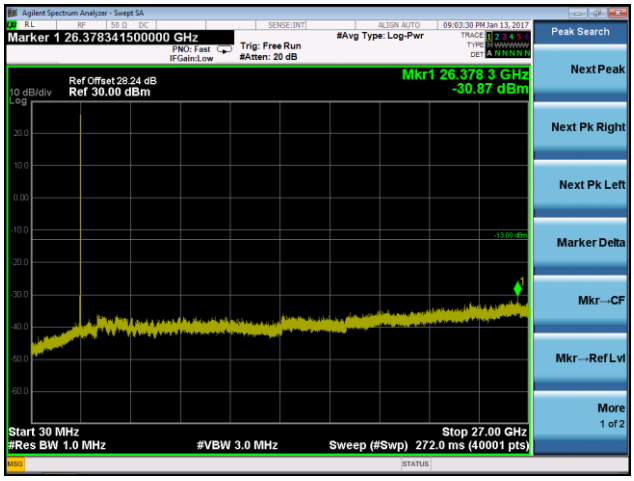
Mode	CB: 10MHz, QPSK	Mode	CB: 10MHz, 16QAM
Low Channel		**Low Channel**	
			
Mid. Channel		**Mid. Channel**	
			
High Channel		**High Channel**	
			

Mode	CB: 10MHz, 64QAM	---
Low Channel		---
	---
Mid. Channel		---
	---
High Channel		---
	---

Mode	CB: 15MHz, QPSK	Mode	CB: 15MHz, 16QAM
Low Channel		**Low Channel**	
			
Mid. Channel		**Mid. Channel**	
			
High Channel		**High Channel**	
			

Mode	CB: 15MHz, 64QAM	---
Low Channel		---
	---
Mid. Channel		---
	---
High Channel		---
	---

Mode	CB: 20MHz, QPSK	Mode	CB: 20MHz, 16QAM
Low Channel		**Low Channel**	
			
Mid. Channel		**Mid. Channel**	
			
High Channel		**High Channel**	
			

Mode	CB: 20MHz, 64QAM	---
Low Channel		---
	---
Mid. Channel		---
	---
High Channel		---
	---