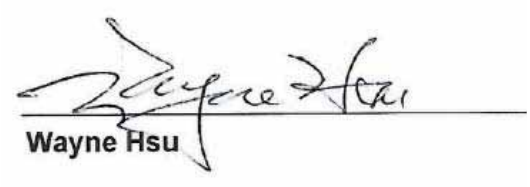
FCC Test Report

Equipment	:	**Wireless Cable Modem**
Brand Name	:	**Pegatron**
Model No.	:	**DPC3939**
FCC ID	:	**VUIUPWL6580**
Standard	:	**47 CFR FCC Part 15.407**
Operating Band	:	**5250 MHz – 5350 MHz** **5470 MHz – 5725 MHz**
FCC Classification	:	**NII**
Applicant **Manufacturer**	:	**PEGATRON CORPORATION** **5F., NO. 76, Ligong ST., Beitou district,** **Taipei City 112 Taiwan (R.O.C.)**
Operate Mode	:	**Master**

The product sample received on Feb. 18, 2013 and completely tested on Jun. 13, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Testing Laboratory
1190

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Summary of Test Result

Conformance Test Specifications					
Report Clause	**Ref. Std. Clause**	**Description**	**Measured**	**Limit**	**Result**
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.3464610MHz 35.76 (Margin 13.29dB) - AV 40.00 (Margin 19.05dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:23.92 / 40M:45.44	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5250-5350MHz:23.91 5470-5725MHz:23.92	Power [dBm] 5150-5250MHz:17 5250-5350MHz:24 5470-5725MHz:24	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5250-5350MHz:10.93 5470-5725MHz:10.92	PPSD [dBm/MHz] 5150-5250MHz:4 5250-5350MHz:11 5470-5725MHz:11	Complied
3.5	15.407(a)	Peak Excursion	9.15 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Bandedge Emissions	Restricted Bands [dBuV/m at 1.5m]: 5351.020MHz 78.37 (Margin 5.17dB) - PK 62.06 (Margin 1.48dB) - AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Unwanted Emissions	Restricted Bands [dBuV/m at 1.5m]: 86.260MHz 39.91(Margin 0.09dB) - QP	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	13.7623 ppm	Signal shall remain in-band	Complied

Revision History

Report No.	Version	Description	Issued Date
FR272809AN	Rev. 01	Initial issue of report	Oct. 23, 2012
FR312207AN	Rev. 01	Add band 2 and band 3.	Jun. 21, 2013

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information						
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**RF Output Power (dBm)**	**Co-location**
5250-5350	a	5260-5320	52-64 [4]	1	21.92	N/A
5470-5725		5500-5700	100-140 [8]	1	21.88	
5250-5350	n (HT20)	5260-5320	52-64 [4]	1 / 3	21.99 / 21.05	N/A
5470-5725		5500-5700	100-140 [8]	1 / 3	22.03 / 21.25	
5250-5350	n (HT40)	5270-5310	54-62 [2]	1 / 3	23.24 / 23.91	N/A
5470-5725		5510-5670	102-134 [3]	1 / 3	23.28 / 23.92	

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

1.1.2 Antenna Information

Antenna Category	
☐	Equipment placed on the market without antennas
☒	Integral antenna (antenna permanently attached)
	☐ Temporary RF connector provided
	☒ No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.

Antenna General Information					
No.	**Ant. Cat.**	**Ant. Type**	**Brand**	**Model**	**Gain (dBi)**
1	Integral	PCB	Wanshih	UC3WFI0090	2.03
2	Integral	PCB	Wanshih	UC3WFI0058	2.08
3	Integral	PCB	Wanshih	UC3WFI0057	1.99

Reminder: The EUT was pre-tested Antenna Port 1, Antenna Port 2 and Antenna Port 3 for single chain, the worst case was Antenna Port 2. Therefore only the test data recorded in this report.

1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	☐ Production ; ☒ Pre-Production ; ☐ Prototype

Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: …
☐	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: …
☐	Other:

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
☐ Operated normally mode for worst duty cycle	
☒ Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	**Power Duty Factor [dB] – (10 log 1/x)**
☒ 98.97% - IEEE 802.11a	0.05
☒ 98.90% - IEEE 802.11n (HT20)	0.05
☒ 97.83% - IEEE 802.11n (HT40)	0.10

1.1.5 EUT Operational Condition

Supply Voltage	☒ AC mains	☒ DC	
Type of DC Source	☐ Internal DC supply	☒ External DC adapter	☒ Battery

1.1.6 DFS and TPC Information

The DFS Related Operating Mode(s) of the Equipment			
☒ Master			
☐ Slave with radar detection			
☐ Slave without radar detection			
Software / Firmware Version		Dpc3939.bin	
Power-on Cycle. (Master)		38.45 sec	
Communication Mode		☒ IP Based	☐ Frame Based
IEEE Std. 802.11	**Frequency Range (MHz)**	**TPC (Transmit Power Control)**	**Active Scan**
a / n (HT20)	☒ 5250-5350	Yes	Yes
n (HT40)	☒ 5470-5725	Yes	Yes
	☐ 5600-5650	-	-

1.2 Accessories

Accessories Information				
Battery	Brand Name	PEGATRON	Model Name	PB013
	Power Rating	10.8Vdc, 2600mAh,28Wh	Type	Li-ion

Reminder: Regarding to more detail and other information, please refer to user manual.

1.3 Support Equipment

The EUT was tested alone.

1.4 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2009
- FCC KDB 789033
- FCC KDB 644545 D01
- FCC KDB 662911
- FCC KDB 412172

1.5 Testing Location Information

Testing Location					
☒	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973			
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**	
AC Conduction	CO04-HY	Zeus	24.4°C / 50%	Jun. 13, 2013	
RF Conducted	TH01-HY	Wei	22.1C / 61%	May 28, 2013	
Radiated Emission	03CH02-HY	Eddie	24°C / 54%	Jun. 04, 2013~ Jun. 11, 2013	

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			
Test Item		**Uncertainty**	**Limit**
AC power-line conducted emissions		±2.26 dB	N/A
Emission bandwidth		±1.42 %	N/A
RF output power, conducted		±0.63 dB	N/A
Power density, conducted		±0.81 dB	N/A
Unwanted emissions, conducted	30 – 1000 MHz	±0.51 dB	N/A
	1 – 18 GHz	±0.67 dB	N/A
	18 – 40 GHz	±0.83 dB	N/A
	40 – 200 GHz	N/A	N/A
All emissions, radiated	30 – 1000 MHz	±2.56 dB	N/A
	1 – 18 GHz	±3.59 dB	N/A
	18 – 40 GHz	±3.82 dB	N/A
	40 – 200 GHz	N/A	N/A
Temperature		±0.8 °C	N/A
Humidity		±3 %	N/A
DC and low frequency voltages		±3 %	N/A
Time		±1.42 %	N/A
Duty Cycle		±1.42 %	N/A

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	**Transmit Chains (N_{TX})**	**Data Rate / MCS**	**Worst Data Rate / MCS**
11a,6-54Mbps	1	6-54Mbps	6 Mbps
HT20,M0-7	1	M0-7	M0
HT20,M0-23	3	M0-23	M0
HT40, M0-7	1	M0-7	M0
HT40, M0-23	3	M0-23	M0

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5250-5350MHz band)							
Test Software Version	Atheros Radio Test2(ART2-GUI)						
Modulation Mode	**N_{TX}**	**Test Frequency (MHz)**					
		NCB: 20MHz			**NCB: 40MHz**		**-**
		5260	**5300**	**5320**	**5270**	**5310**	**-**
11a,6-54Mbps	1	21.5	22.5	22.5	-	-	-
HT20,M0-M7	1	22	22.5	22.5	-	-	-
HT20,M0-M23	3	17	17.5	17.5	-	-	-
HT40,M0-M7	1	-	-	-	22.5	23	-
HT40,M0-M23	3	-	-	-	19.5	20	-

The Worst Case Power Setting Parameter (5470-5725MHz band)								
Test Software Version	Atheros Radio Test2(ART2-GUI)							
Modulation Mode	**N_{TX}**	**Test Frequency (MHz)**						
		NCB: 20MHz			**NCB: 40MHz**			**-**
		5500	**5580**	**5700**	**5510**	**5550**	**5670**	**-**
11a,6-54Mbps	1	23	23.5	23.5	-	-	-	-
HT20,M0-M7	1	23.5	23.5	24	-	-	-	-
HT20,M0-M23	3	17.5	17.5	17.5	-	-	-	-
HT40,M0-M7	1	-	-	-	24.5	24.5	24.5	-
HT40,M0-M23	3	-	-	-	20.5	20	20	-

2.3 The Worst Case Measurement Configuration

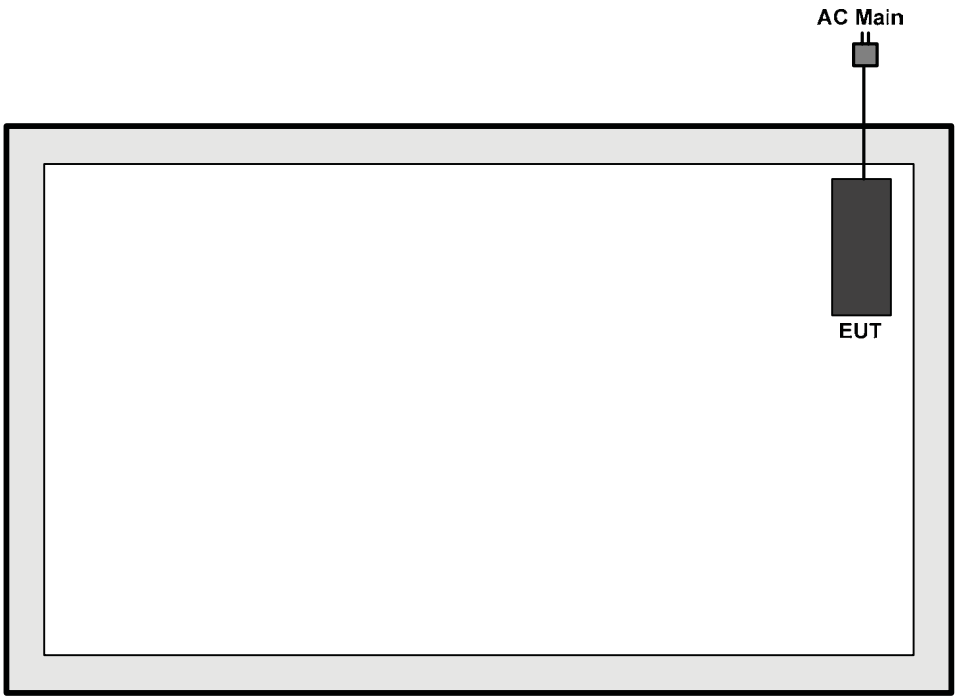
The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	Transmitter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion
Test Condition	Conducted measurement at transmit chains
Modulation Mode	11a, HT20, HT40

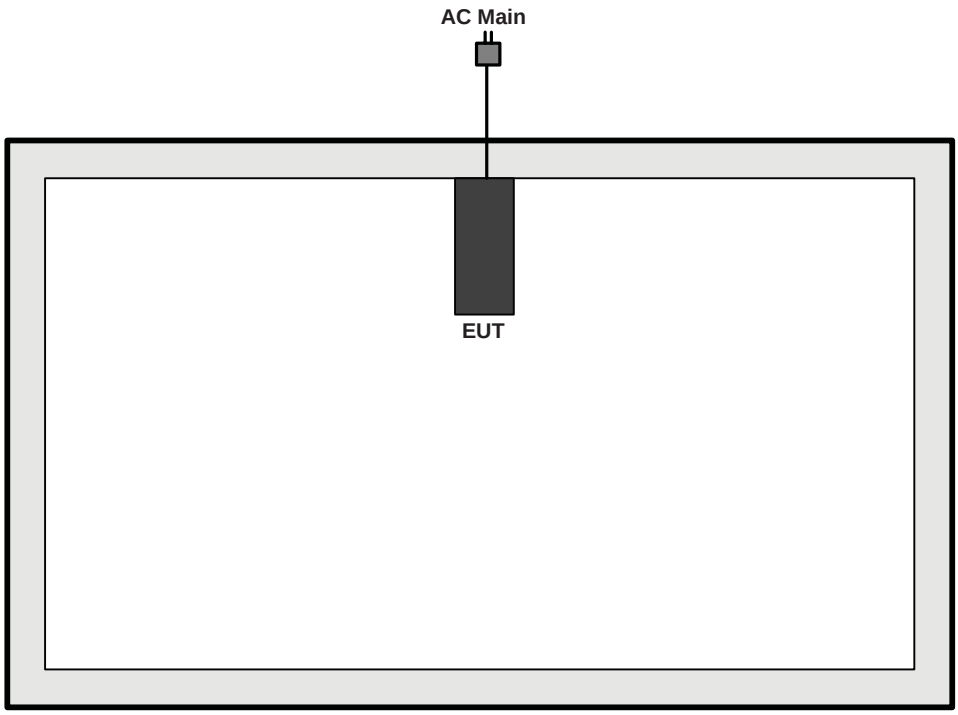
The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	☒ EUT will be placed in fixed position. The worst planes is Y.		
	☐ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes.		
	☐ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.		
Operating Mode < 1GHz	☒ 1. Transmitter Mode		
Modulation Mode	11a, HT20, HT40		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			

2.4 Test Setup Diagram

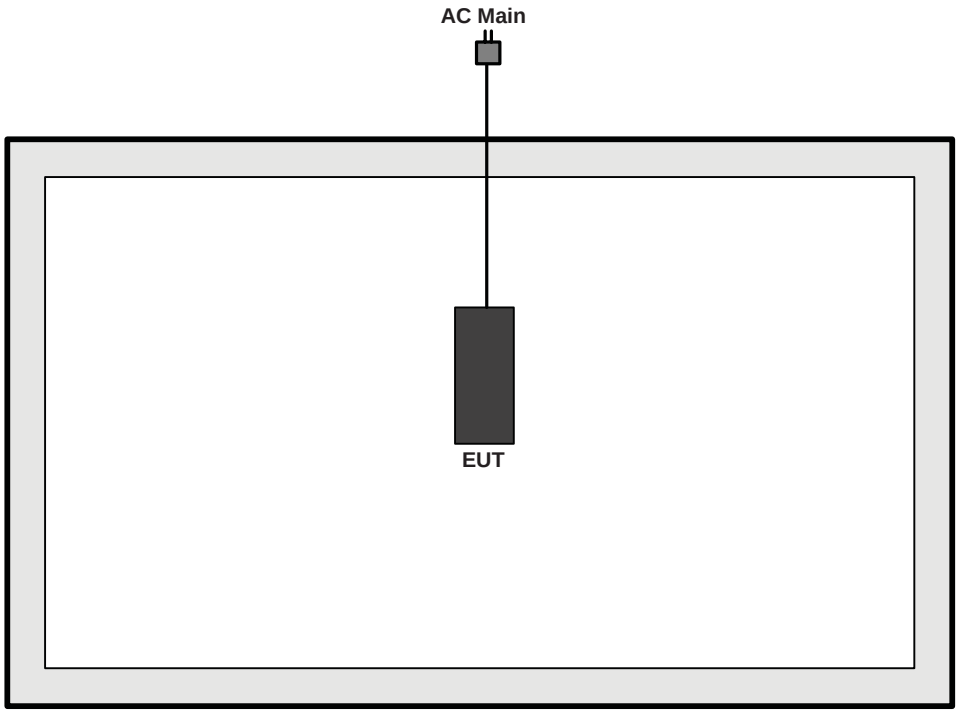
Test Setup Diagram – AC Line Conducted Emission Test



Test Setup Diagram – Radiated Below 1GHz Test	
Operating Mode 1	**Transmitter Mode**



Test Setup Diagram - Radiated Above 1GHz Test	
Operating Mode 1	**Transmitter Mode**



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

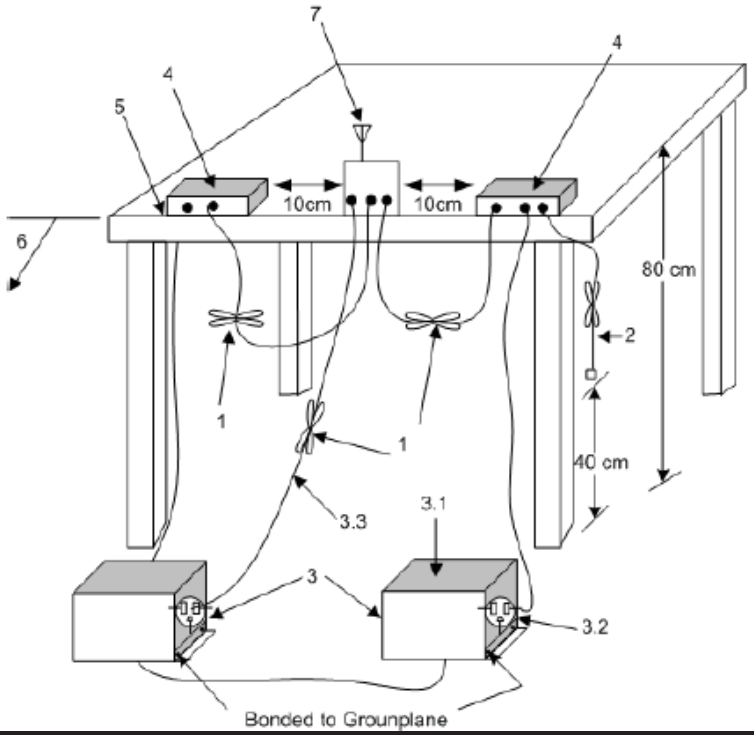
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

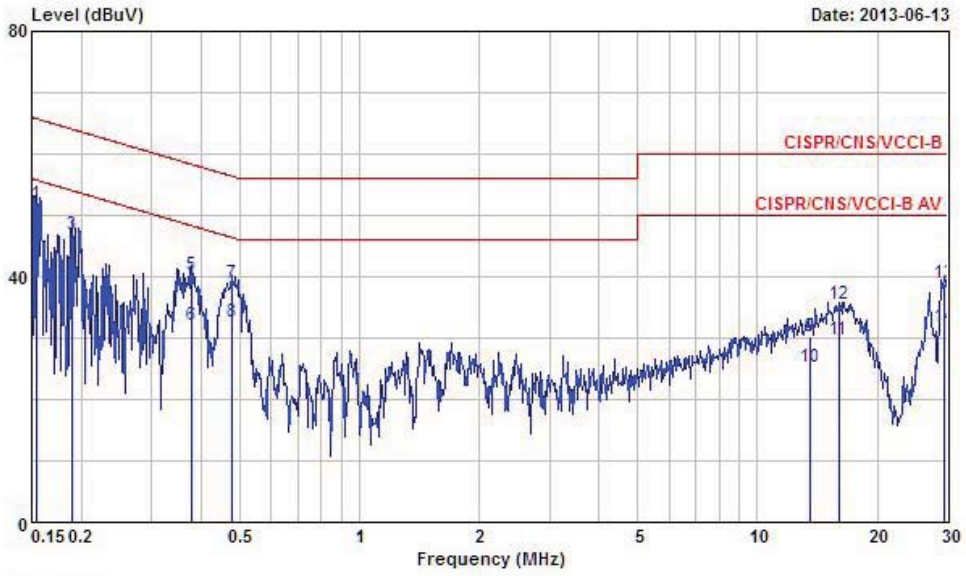
3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

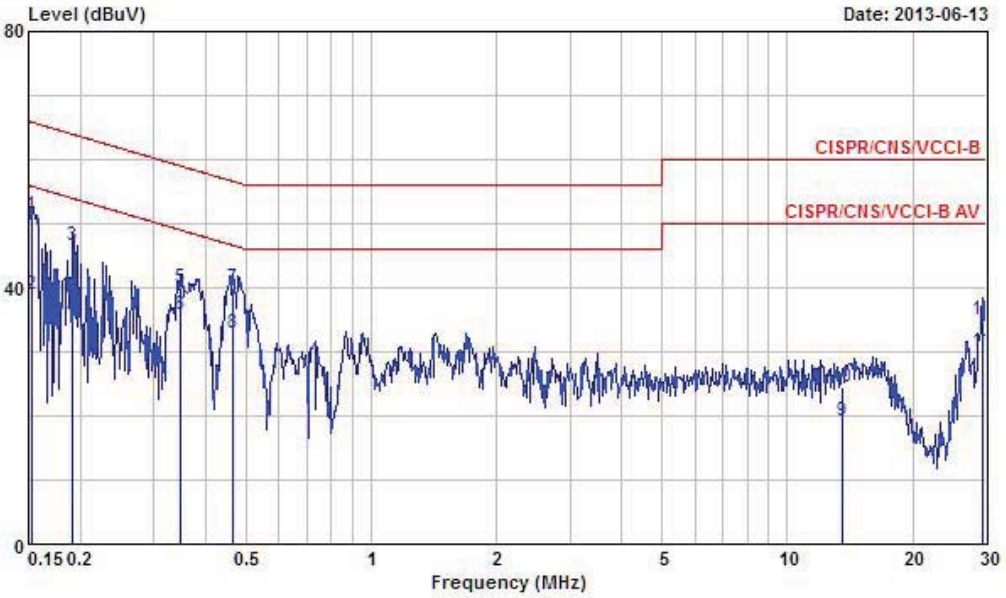
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Transmitter Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1540270	51.90	-13.88	65.78	51.41	0.24	0.25	QP
2	0.1540270	39.79	-15.99	55.78	39.30	0.24	0.25	Average
3	0.1893810	46.81	-17.25	64.06	46.45	0.23	0.13	QP
4	0.1893810	34.67	-19.39	54.06	34.31	0.23	0.13	Average
5	0.3791160	40.36	-17.94	58.30	40.04	0.22	0.10	QP
6	0.3791160	32.11	-16.19	48.30	31.79	0.22	0.10	Average
7	0.4761190	38.95	-17.46	56.41	38.61	0.22	0.12	QP
8	0.4761190	32.59	-13.82	46.41	32.25	0.22	0.12	Average
9	13.560	30.31	-29.69	60.00	29.66	0.48	0.17	QP
10	13.560	25.28	-24.72	50.00	24.63	0.48	0.17	Average
11	15.970	29.73	-20.27	50.00	29.02	0.51	0.20	Average
12	15.970	35.60	-24.40	60.00	34.89	0.51	0.20	QP
13	29.530	38.87	-21.13	60.00	38.07	0.71	0.09	QP
14	29.530	31.84	-18.16	50.00	31.04	0.71	0.09	Average

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Transmitter Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1524030	51.21	-14.66	65.87	50.84	0.11	0.26	QP
2	0.1524030	38.91	-16.96	55.87	38.54	0.11	0.26	Average
3	0.1903870	46.57	-17.45	64.02	46.33	0.11	0.13	QP
4	0.1903870	35.29	-18.73	54.02	35.05	0.11	0.13	Average
5	0.3464610	40.00	-19.05	59.05	39.80	0.10	0.10	QP
6	0.3464610	35.76	-13.29	49.05	35.56	0.10	0.10	Average
7	0.4661350	40.10	-16.48	56.58	39.88	0.10	0.12	QP
8	0.4661350	32.90	-13.68	46.58	32.68	0.10	0.12	Average
9	13.560	19.15	-30.85	50.00	18.71	0.27	0.17	Average
10	13.560	24.56	-35.44	60.00	24.12	0.27	0.17	QP
11	29.370	30.01	-19.99	50.00	29.55	0.37	0.09	Average
12	29.370	35.09	-24.91	60.00	34.63	0.37	0.09	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

Emission Bandwidth (EBW) Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, the maximum conducted output power shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.725-5.825 GHz band, the maximum conducted output power shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☒	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☒	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

3.2.2 Measuring Instruments

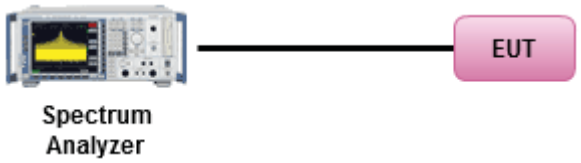
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method			
☒	For the emission bandwidth shall be measured using one of the options below:		
	☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.	
	☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	
	☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.	
☒	For conducted measurement.		
	☒	The EUT supports single transmit chain and measurements performed on this transmit chain.	
	☒	The EUT supports diversity transmitting and the results on transmit chain port 2 is the worst case.	
	☒	The EUT supports multiple transmit chains using options given below:	
		☐	Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 2.
		☒	Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.

3.2.4 Test Setup

Emission Bandwidth

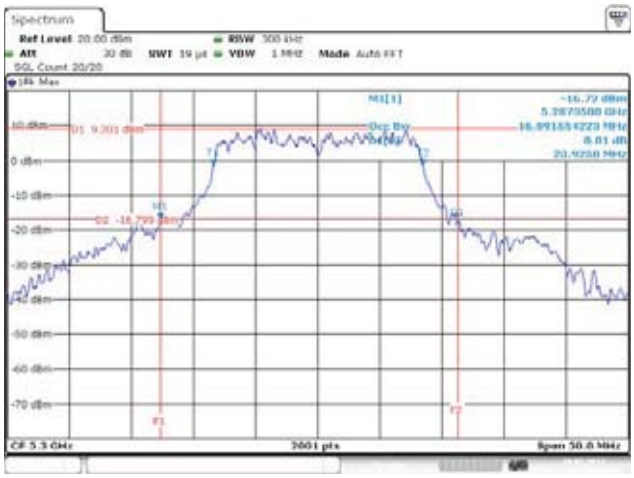
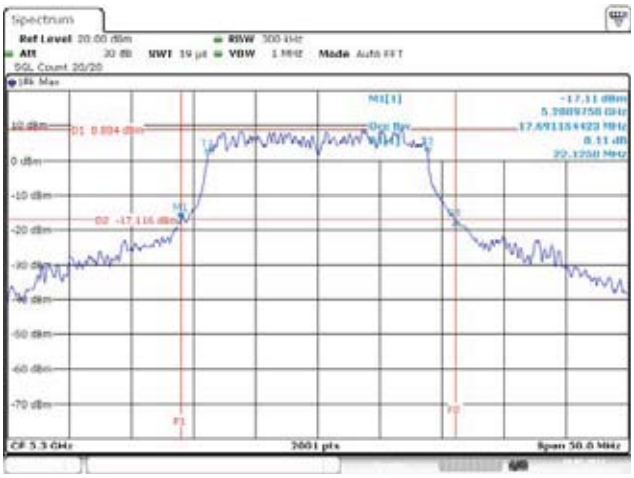
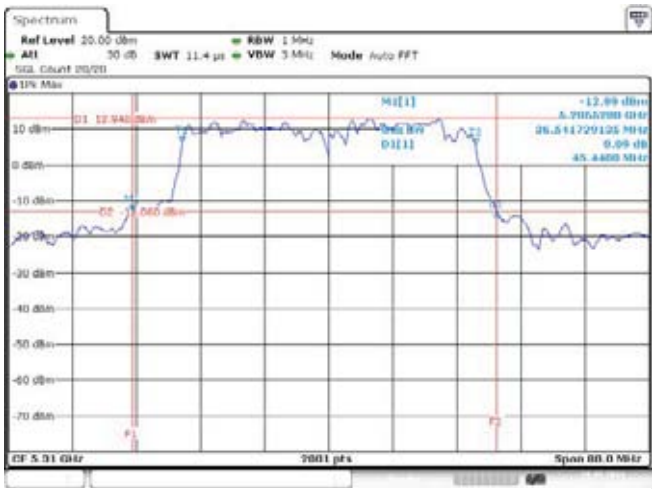


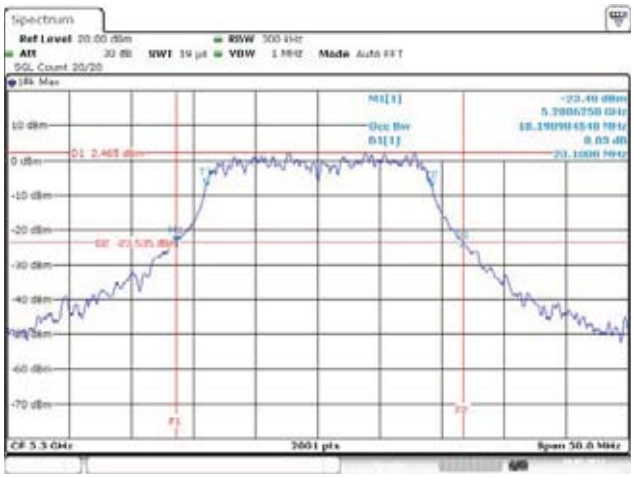
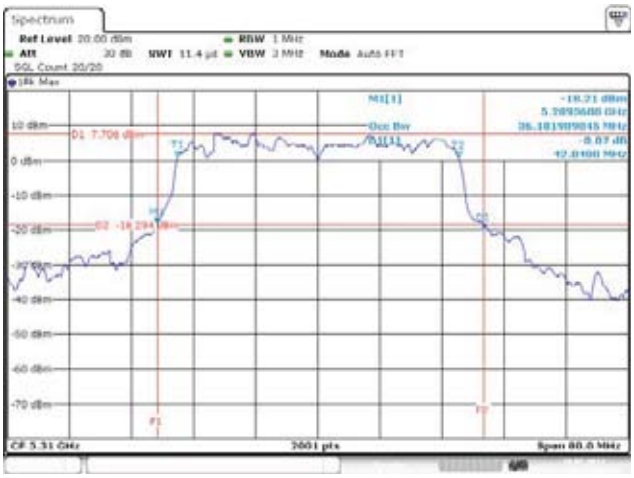
3.2.5 Test Result of Emission Bandwidth

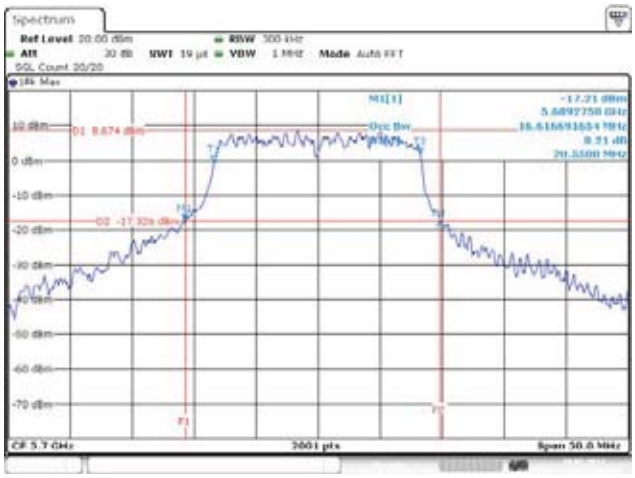
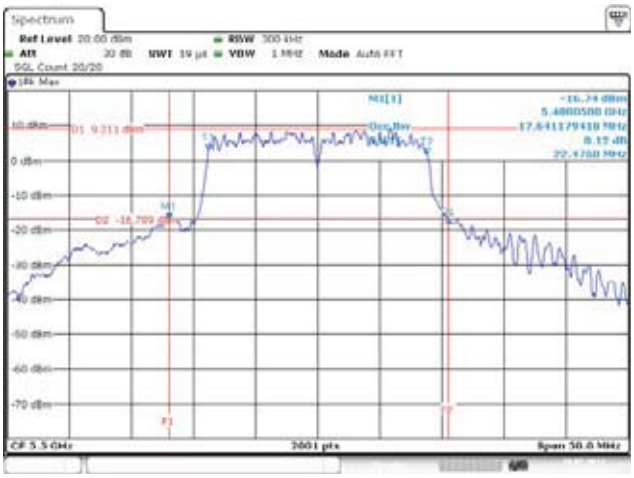
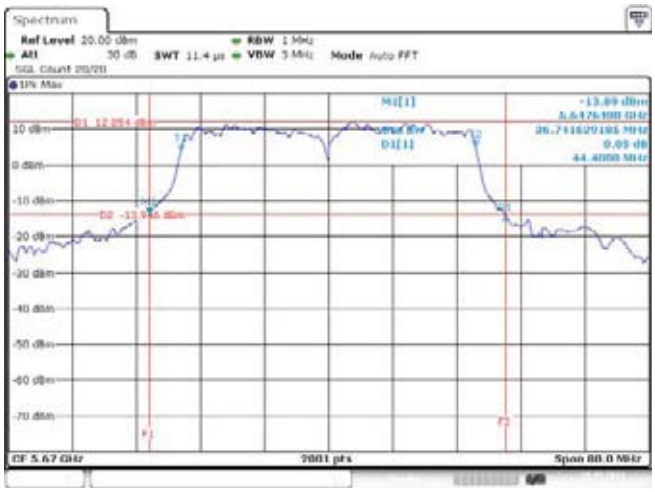
UNII Emission Bandwidth Result (5250-5350MHz band)

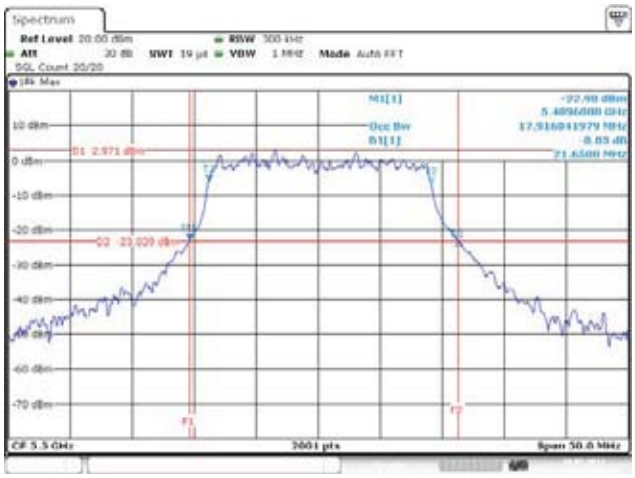
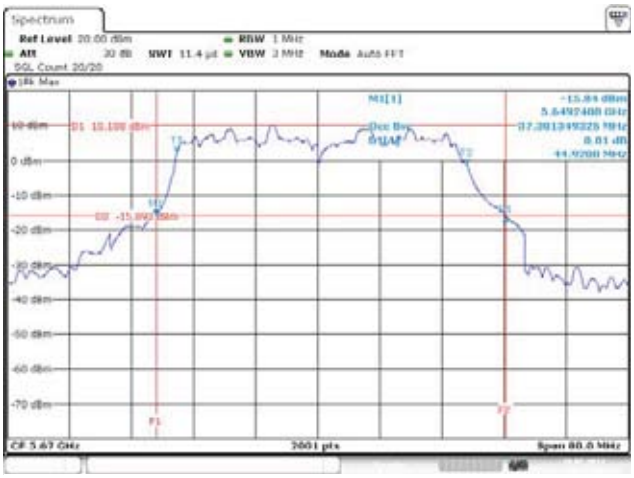
Condition			Emission Bandwidth (MHz)							
Modulation Mode	N_{TX}	Freq. (MHz)	99% Bandwidth			26dB Bandwidth			Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 1	Chain-Port 2	Chain-Port 3	99% BW	26dB BW
11a,6-54Mbps	1	5260	-	16.81	-	-	21.12	-	23.26	24.25
11a,6-54Mbps	1	5300	-	16.89	-	-	23.92	-	23.28	24.79
11a,6-54Mbps	1	5320	-	16.96	-	-	22.37	-	23.29	24.50
HT20,M0-M7	1	5260	-	17.64	-	-	21.50	-	23.46	24.32
HT20,M0-M7	1	5300	-	17.69	-	-	22.12	-	23.48	24.45
HT20,M0-M7	1	5320	-	17.69	-	-	21.92	-	23.48	24.41
HT20,M0-M23	3	5260	17.81	17.61	17.94	22.00	21.20	22.10	23.46	24.26
HT20,M0-M23	3	5300	18.19	18.19	17.86	23.10	22.82	21.57	23.52	24.34
HT20,M0-M23	3	5320	17.59	17.69	17.79	21.10	20.50	22.75	23.45	24.12
HT40,M0-M7	1	5270	-	36.82	-	-	44.40	-	26.66	27.47
HT40,M0-M7	1	5310	-	36.54	-	-	45.44	-	26.63	27.57
HT40,M0-M23	3	5270	36.30	36.34	36.26	41.96	40.56	40.60	26.59	27.08
HT40,M0-M23	3	5310	36.14	36.46	36.18	40.96	41.80	42.04	26.58	27.12
Result			Complied							

UNII Emission Bandwidth Result (5470-5725MHz band)										
Condition			Emission Bandwidth (MHz)							
Modulation Mode	N_{TX}	Freq. (MHz)	99% Bandwidth			26dB Bandwidth			Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 1	Chain-Port 2	Chain-Port 3	99% BW	26dB BW
11a,6-54Mbps	1	5500	-	16.66	-	-	20.22	-	23.22	24.06
11a,6-54Mbps	1	5580	-	16.46	-	-	20.10	-	23.16	24.03
11a,6-54Mbps	1	5700	-	16.61	-	-	20.55	-	23.20	24.13
HT20,M0-M7	1	5500	-	17.64	-	-	22.47	-	23.46	24.52
HT20,M0-M7	1	5580	-	17.74	-	-	21.10	-	23.49	24.24
HT20,M0-M7	1	5700	-	17.84	-	-	21.52	-	23.51	24.33
HT20,M0-M23	3	5500	17.54	17.84	17.91	21.12	21.32	21.65	23.44	24.25
HT20,M0-M23	3	5580	17.56	17.74	17.76	19.87	21.02	20.82	23.45	23.98
HT20,M0-M23	3	5700	17.61	17.76	17.64	20.72	21.55	20.10	23.46	24.03
HT40,M0-M7	1	5510	-	36.42	-	-	40.92	-	26.61	27.12
HT40,M0-M7	1	5550	-	36.82	-	-	43.36	-	26.66	27.37
HT40,M0-M7	1	5550		36.74			44.40		26.65	27.47
HT40,M0-M23	3	5510	36.26	36.22	36.50	41.84	39.24	43.72	26.59	26.94
HT40,M0-M23	3	5510	36.42	36.70	36.54	42.56	43.08	43.00	26.61	27.29
HT40,M0-M23	3	5670	36.98	37.30	36.62	43.76	44.92	43.52	26.64	27.39
Result			Complied							

5250-5350MHz - Worst Emission Bandwidth Plots	
11a	**HT20,M0-M7**
 Date: 28.MAY.2013 02:29:09	 Date: 28.MAY.2013 02:48:37
HT40,M0-M7	
 Date: 28.MAY.2013 03:55:55	

5250-5350MHz - Worst Emission Bandwidth Plots	
HT20,M0-M23	HT40,M0-M23
	
Date: 28.MAY.2013 04:50:42	Date: 28.MAY.2013 04:40:58

5470-5725MHz - Worst Emission Bandwidth Plots	
11a	**HT20,M0-M7**
 Date: 28.MAY.2013 03:04:50	 Date: 28.MAY.2013 02:55:25
HT40,M0-M7	
 Date: 28.MAY.2013 04:06:17	

5470-5725MHz - Worst Emission Bandwidth Plots	
HT20,M0-M23	HT40,M0-M23
	
Date: 28.MAY.2013 05:32:03	Date: 28.MAY.2013 04:14:58

3.3 RF Output Power

3.3.1 RF Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
☒	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☒	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.725-5.825 GHz band:
	☐ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	☐ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 23 dBi, then P_{Out} = 30 – (G_{TX} – 23).
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☒	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☒	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	☐ Point-to-multipoint systems (P2M): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	☐ Point-to-point systems (P2P): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If e.i.r.p. > 36 dBm, $G_{TX} \leq P_{Out}$
P_{Out} = maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

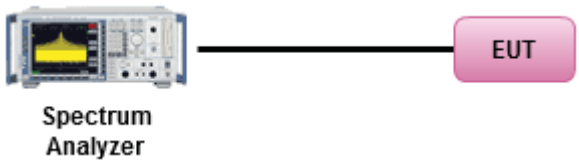
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

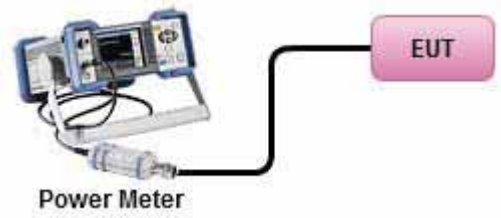
Test Method	
☒	Maximum Conducted Output Power
	[duty cycle ≥ 98% or external video / power trigger]
	☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
	☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033, clause E Method PM (using an RF average power meter).
☒	For conducted measurement.
	☒ The EUT supports single transmit chain and measurements performed on this transmit chain.
	☒ The EUT supports diversity transmitting and the results on transmit chain port 2 is the worst case.
	☒ The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	☒ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Spectrum Analyzer)



RF Output Power (Power Meter)



3.3.5 Directional Gain for Power Measurement

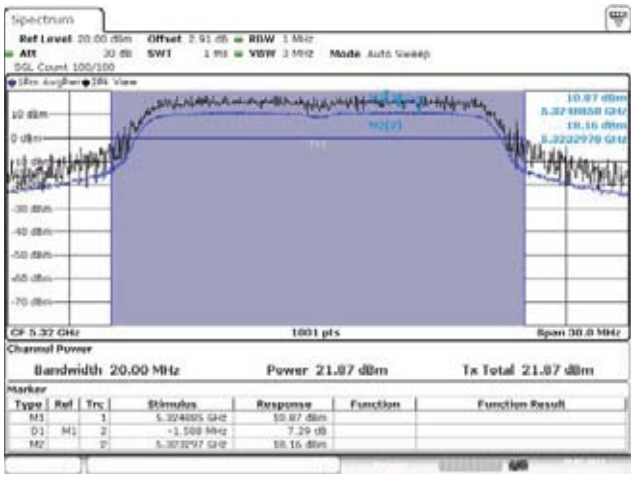
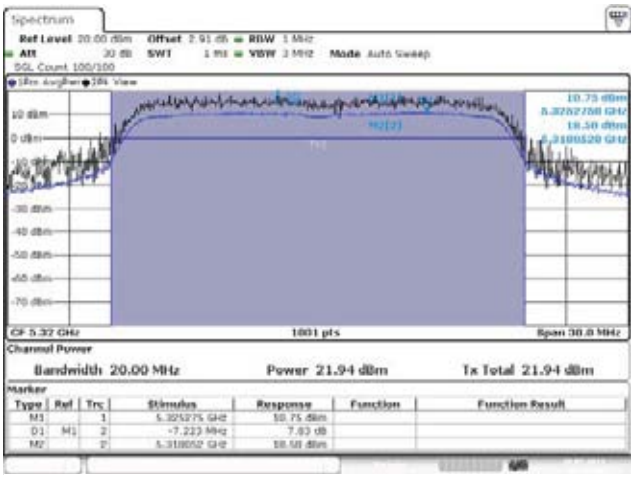
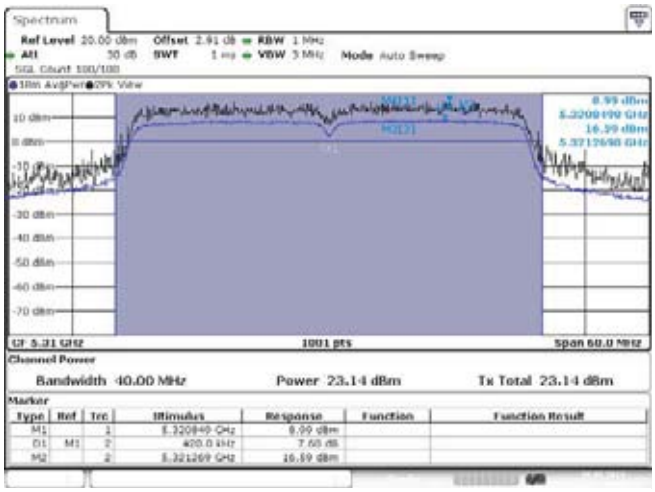
Directional Gain (DG) Result					
Transmit Chains No.		1	2	3	
Maximum G_{ANT} (dBi)		2.08	2.08	2.08	
Modulation Mode	**DG (dBi)**	**N_{TX}**	**N_{SS} (Min.)**	**STBC**	**Array Gain (dB)**
11a,6-54Mbps	2.08	1	1	-	-
HT20,M0-M7	2.08	1	1	-	-
HT20,M0-M23	2.08	3	1	-	-
HT40,M0-M7	2.08	1	1	-	-
HT40,M0-M23	2.08	3	1	-	-

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}
Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain =$10 \log[(10^{G1/20} + \ldots + 10^{GN/20})^2 / N_{TX}]$
All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G1/10} + \ldots + 10^{GN/10)}/N_{TX}]$
Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$,
where Nss = the number of independent spatial streams data.
Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};

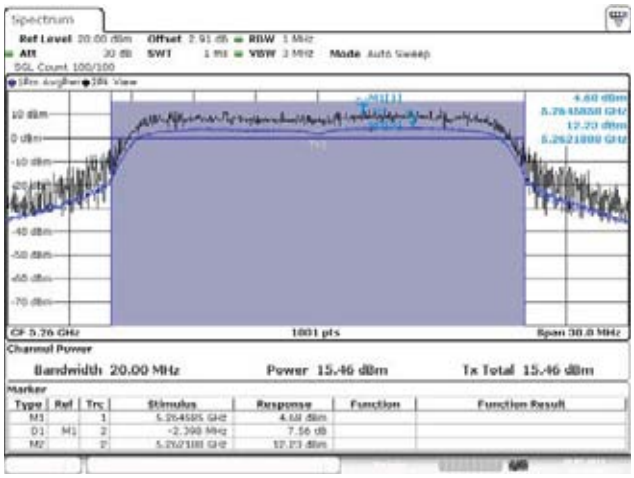
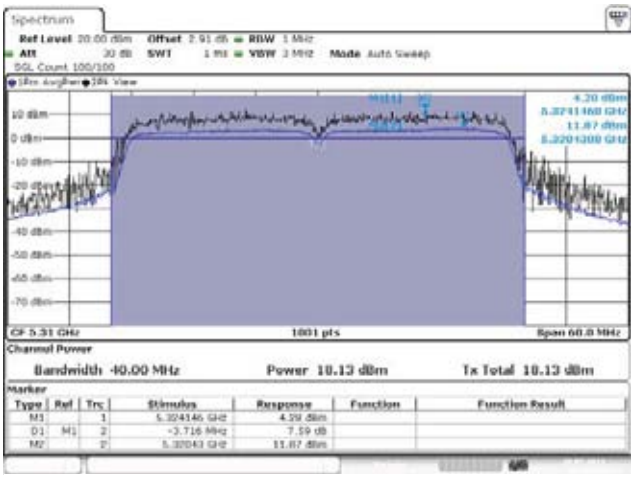
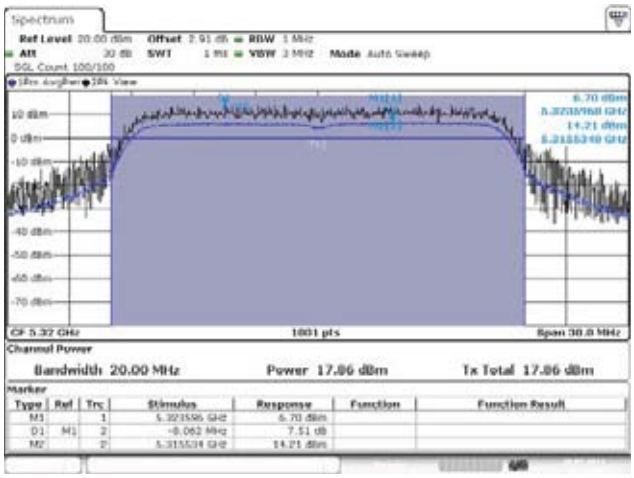
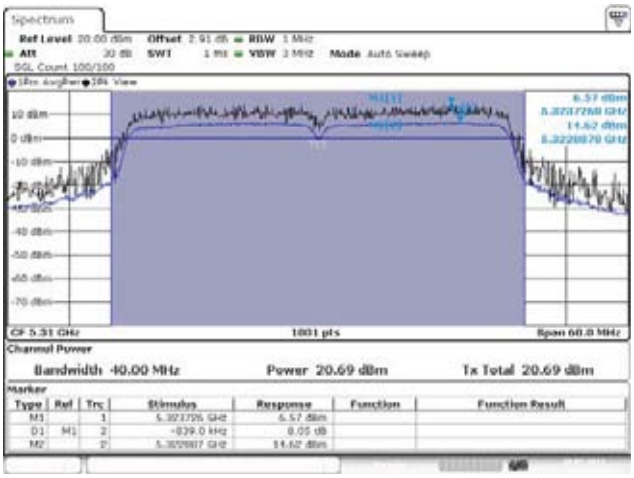
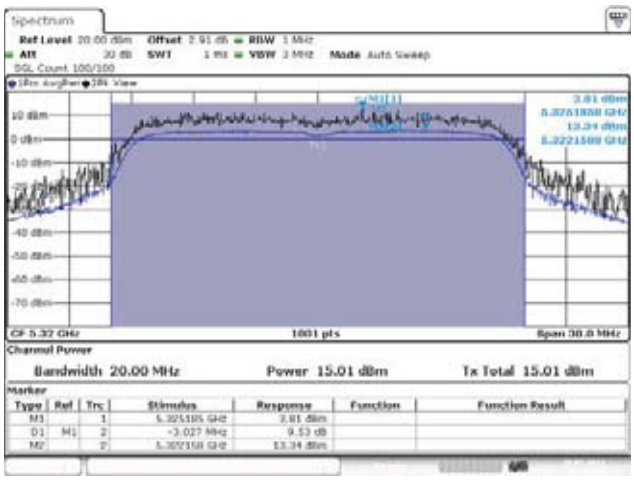
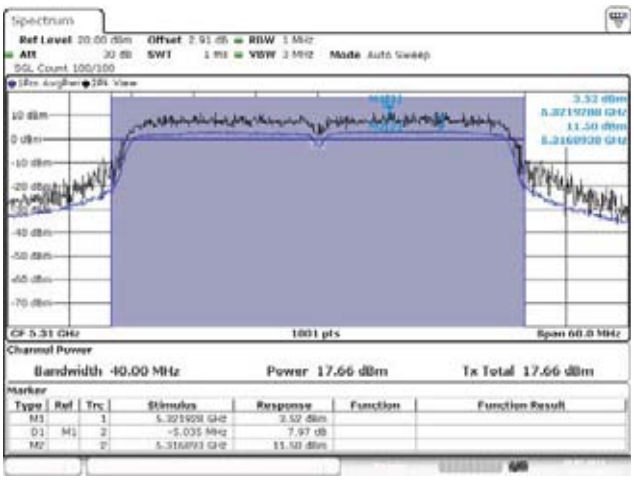
3.3.6 Test Result of Maximum Conducted Output Power

Maximum Conducted Output Power (5250-5350MHz band)										
Condition			RF Output Power (dBm)							
Modulation Mode	N_{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a,6-54Mbps	1	5260	-	21.77	-	21.77	24.0	2.08	23.85	30.0
11a,6-54Mbps	1	5300	-	21.83	-	21.83	24.0	2.08	23.91	30.0
11a,6-54Mbps	1	5320	-	21.92	-	21.92	24.0	2.08	24.00	30.0
HT20,M0-M7	1	5260	-	21.95	-	21.95	24.0	2.08	24.03	30.0
HT20,M0-M7	1	5300	-	21.91	-	21.91	24.0	2.08	23.99	30.0
HT20,M0-M7	1	5320	-	21.99	-	21.99	24.0	2.08	24.07	30.0
HT20,M0-M23	3	5260	15.51	17.65	14.55	20.87	24.0	2.08	22.95	30.0
HT20,M0-M23	3	5300	15.35	17.84	14.73	20.96	24.0	2.08	23.04	30.0
HT20,M0-M23	3	5320	15.27	17.91	15.06	21.05	24.0	2.08	23.13	30.0
HT40,M0-M7	1	5270	-	23.13	-	23.13	24.0	2.08	25.21	30.0
HT40,M0-M7	1	5310	-	23.24	-	23.24	24.0	2.08	25.32	30.0
HT40,M0-M23	3	5270	18.11	20.49	17.51	23.67	24.0	2.08	25.75	30.0
HT40,M0-M23	3	5310	18.23	20.79	17.76	23.91	24.0	2.08	25.99	30.0
Result			Complied							

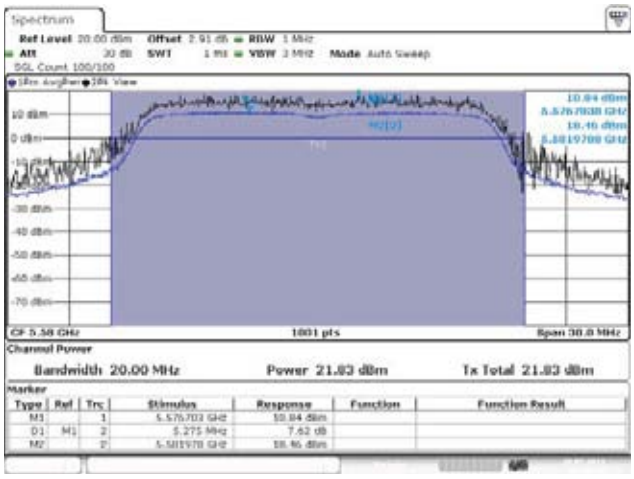
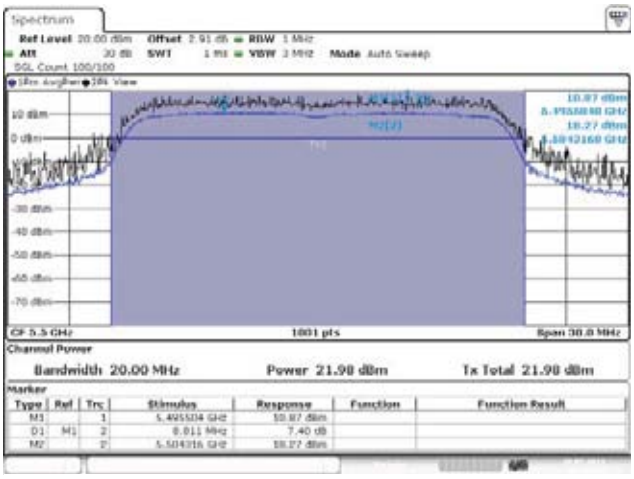
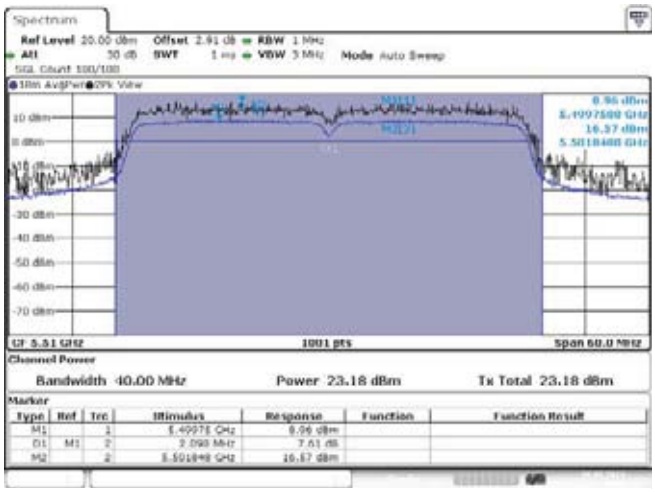
Maximum Conducted Output Power (5470-5725MHz band)										
Condition			RF Output Power (dBm)							
Modulation Mode	N_{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a,6-54Mbps	1	5500	-	21.66	-	21.66	24.0	2.08	23.74	30.0
11a,6-54Mbps	1	5580	-	21.88	-	21.88	24.0	2.08	23.96	30.0
11a,6-54Mbps	1	5700	-	21.70	-	21.70	24.0	2.08	23.78	30.0
HT20,M0-M7	1	5500	-	22.03	-	22.03	24.0	2.08	24.11	30.0
HT20,M0-M7	1	5580	-	21.79	-	21.79	24.0	2.08	23.87	30.0
HT20,M0-M7	1	5700	-	22.03	-	22.03	24.0	2.08	24.11	30.0
HT20,M0-M23	3	5500	16.49	16.79	15.34	21.02	24.0	2.08	23.10	30.0
HT20,M0-M23	3	5580	16.59	16.96	15.43	21.14	24.0	2.08	23.22	30.0
HT20,M0-M23	3	5700	16.46	16.55	16.42	21.25	24.0	2.08	23.33	30.0
HT40,M0-M7	1	5510	-	23.28	-	23.28	24.0	2.08	25.36	30.0
HT40,M0-M7	1	5550	-	23.22	-	23.22	24.0	2.08	25.30	30.0
HT40,M0-M7	1	5670	-	23.26	-	23.26	24.0	2.08	25.34	30.0
HT40,M0-M23	3	5510	18.98	19.91	18.31	23.88	24.0	2.08	25.96	30.0
HT40,M0-M23	3	5550	19.08	19.74	18.57	23.92	24.0	2.08	26.00	30.0
HT40,M0-M23	3	5670	19.33	19.14	18.67	23.82	24.0	2.08	25.90	30.0
Result			Complied							

5250-5350MHz - Worst RF Output Power Plots	
11a [Port 2]	**HT20,M0-M7 [Port 2]**
 Date: 28.MAY.2013 02:40:20	 Date: 28.MAY.2013 02:50:36
HT40,M0-M7 [Port 2]	
 Date: 28.MAY.2013 03:54:39	

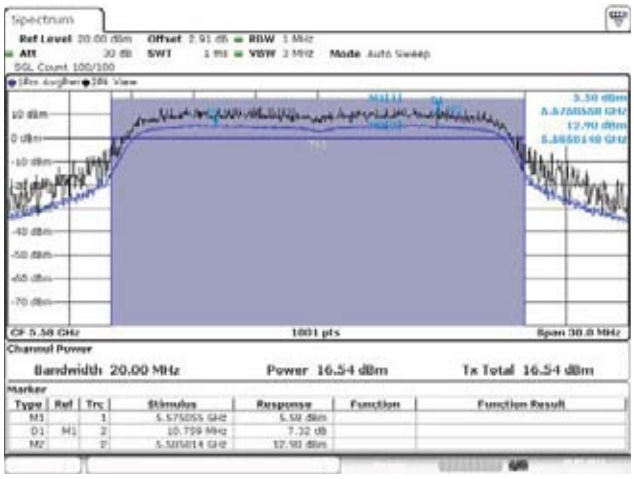
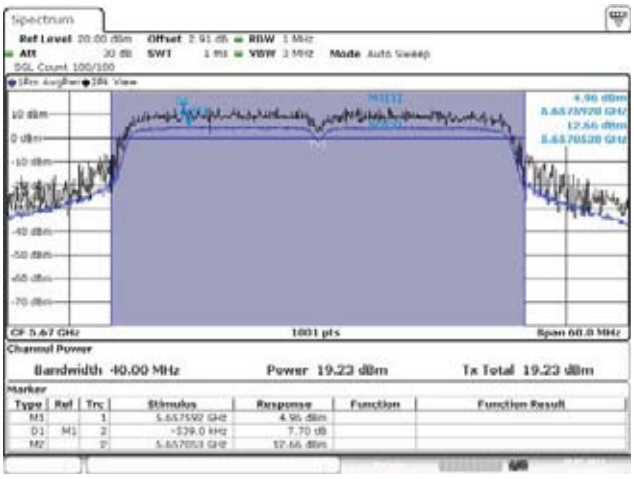
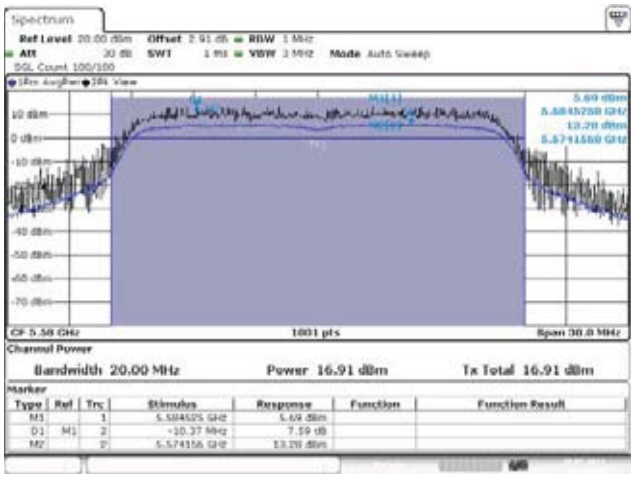
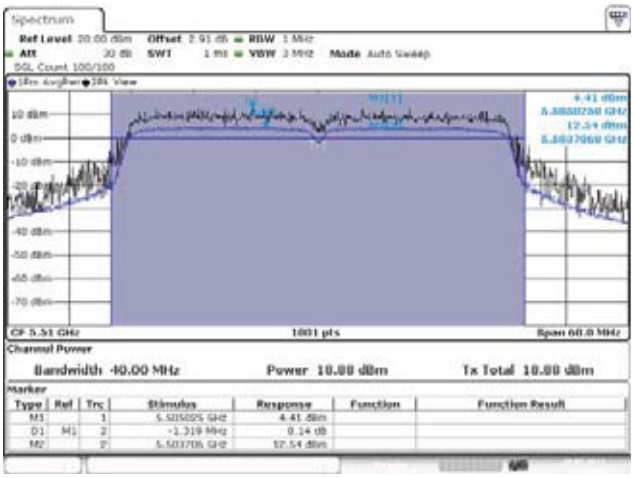
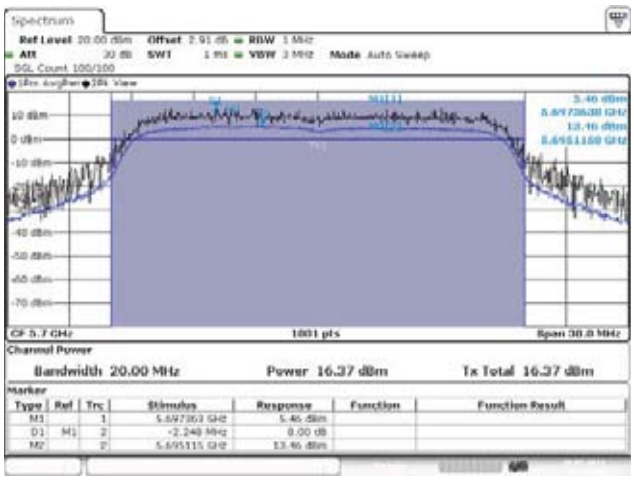
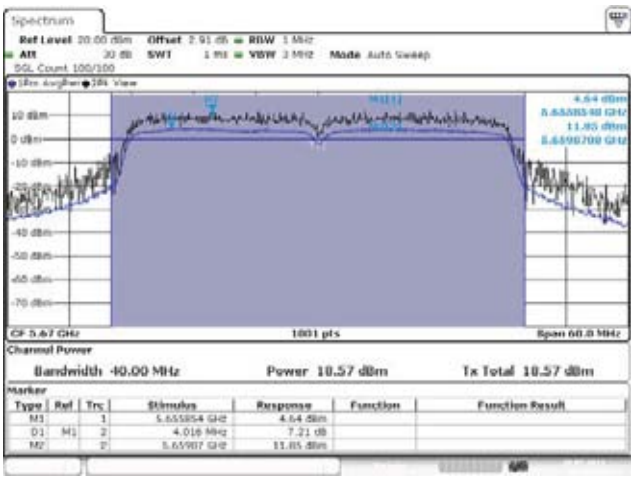
Note 1: RF Output Power Plots w/o Duty Factor

5250-5350MHz - Worst RF Output Power Plots	
HT20,M0-M23 [Port 1]	**HT40,M0-M23 [Port 1]**
 Date: 28.MAY.2013 04:45:51	 Date: 28.MAY.2013 04:39:12
HT20,M0-M23 [Port 2]	**HT40,M0-M23 [Port 2]**
 Date: 28.MAY.2013 04:53:47	 Date: 28.MAY.2013 04:39:19
HT20,M0-M23 [Port 3]	**HT40,M0-M23 [Port 3]**
 Date: 28.MAY.2013 04:53:54	 Date: 28.MAY.2013 04:39:26

Note 1: RF Output Power Plots w/o Duty Factor

5470-5725MHz - Worst RF Output Power Plots	
11a [Port 2]	**HT20,M0-M7 [Port 2]**
 Date: 28.MAY.2013 03:09:17	 Date: 28.MAY.2013 02:54:09
HT40,M0-M7 [Port 2]	
 Date: 28.MAY.2013 03:59:00	

Note 1: RF Output Power Plots w/o Duty Factor

5470-5725MHz - Worst RF Output Power Plots	
HT20,M0-M23 [Port 1]	**HT40,M0-M23 [Port 1]**
 Date: 28.MAY.2013 05:27:31	 Date: 28.MAY.2013 04:22:08
HT20,M0-M23 [Port 2]	**HT40,M0-M23 [Port 2]**
 Date: 28.MAY.2013 05:27:38	 Date: 28.MAY.2013 04:28:08
HT20,M0-M23 [Port 3]	**HT40,M0-M23 [Port 3]**
 Date: 28.MAY.2013 05:25:05	 Date: 28.MAY.2013 04:22:22

Note 1: RF Output Power Plots w/o Duty Factor

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz. If G_{TX} > 6 dBi, then PPSD = 4 – (G_{TX} – 6).
☒	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☒	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.725-5.825 GHz band:
☐	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 17 – (G_{TX} – 6).
☐	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If G_{TX} > 23 dBi, then PPSD = 17 – (G_{TX} – 23).
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☒	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☒	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☐	For the 5.725-5.825 GHz band, the peak power spectral density (PPSD) ≤ 17 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 23 dBm/MHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

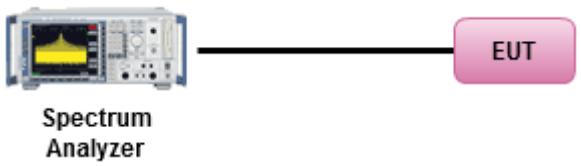
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method		
☒	Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
	☐	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]	
	☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
	☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor	
	☐	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒	For conducted measurement.	
	☒	The EUT supports single transmit chain and measurements performed on this transmit chain.
	☒	The EUT supports diversity transmitting and the results on transmit chain port 2 is the worst case.
	☒	The EUT supports multiple transmit chains using options given below:
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		☐ Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
	☒	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$
	☒	Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Directional Gain for Power Spectral Density Measurement

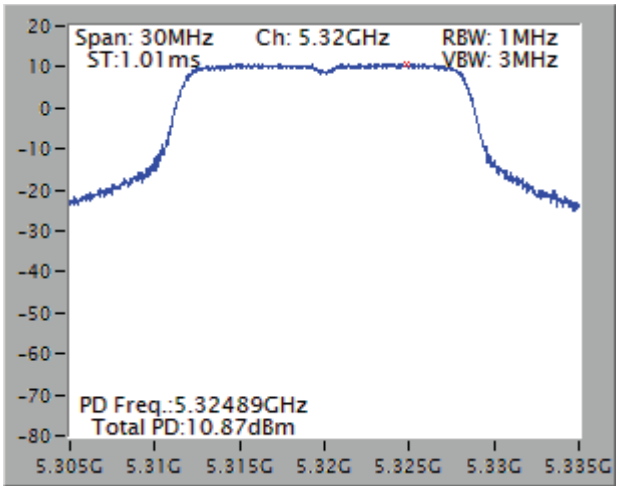
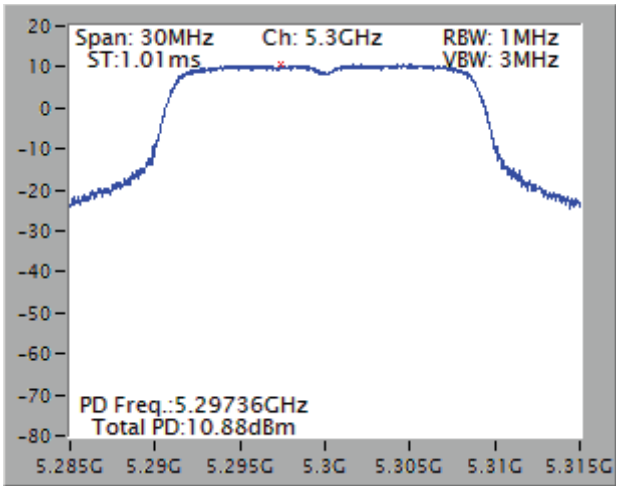
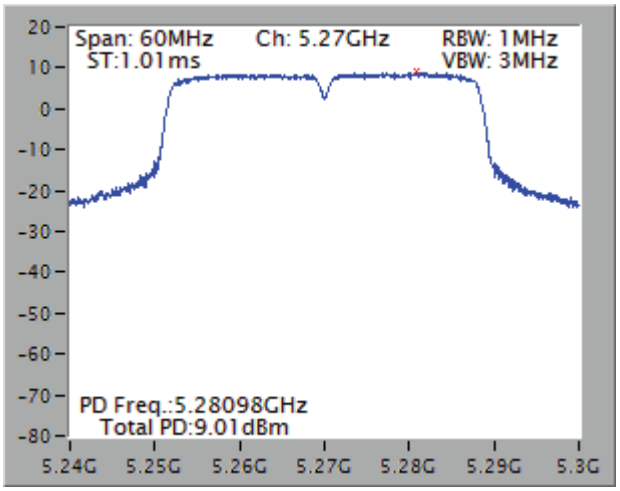
Directional Gain (DG) Result					
Transmit Chains No.		1	2		3
Maximum G_{ANT} (dBi)		2.08	2.08		2.08
Modulation Mode	**DG (dBi)**	**N_{TX}**	**N_{SS} (Min.)**	**STBC**	**Array Gain (dB)**
11a,6-54Mbps	2.08	1	1	-	0
HT20,M0-M7	2.08	1	1	-	0
HT20,M0-M23	6.85	3	1		3
HT40,M0-M7	2.08	3	1		0
HT40,M0-M23	6.85	1	1	-	3

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}
Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain =$10 \log[(10^{G1/20} + \ldots + 10^{GN/20})^2 / N_{TX}]$
All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G1/10} + \ldots + 10^{GN/10)}/N_{TX}]$
Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$,
where Nss = the number of independent spatial streams data.
Note 4: For CDD transmissions, directional gain is calculated as power spectral density measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = $10 \log(N_{TX}/N_{SS})$;

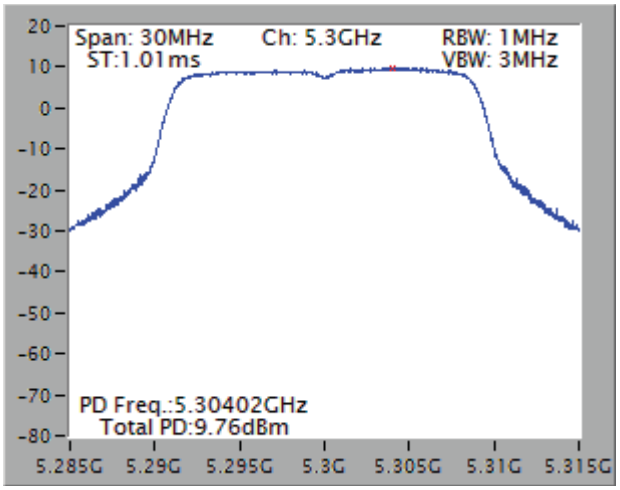
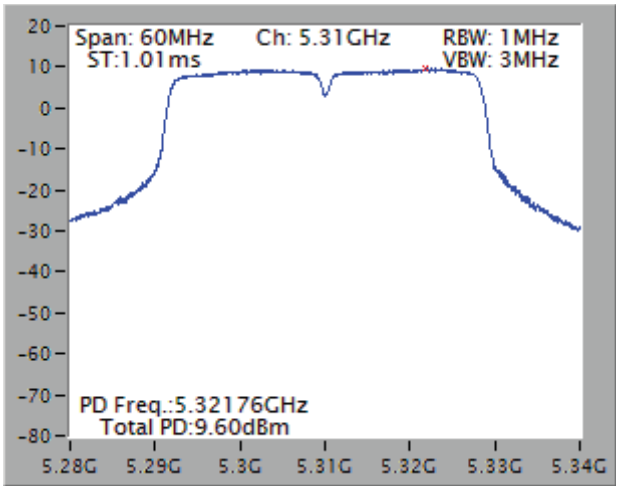
3.4.6 Test Result of Peak Power Spectral Density

Peak Power Spectral Density Result (5250-5350MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N_{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a,6-54Mbps	1	5260	10.85	11.00	2.08	12.93	17.00
11a,6-54Mbps	1	5300	10.87	11.00	2.08	12.95	17.00
11a,6-54Mbps	1	5320	10.92	11.00	2.08	13.00	17.00
HT20,M0-M7	1	5260	10.79	11.00	2.08	12.87	17.00
HT20,M0-M7	1	5300	10.93	11.00	2.08	13.01	17.00
HT20,M0-M7	1	5320	10.80	11.00	2.08	12.88	17.00
HT20,M0-M23	3	5260	9.78	10.15	6.85	16.63	17.00
HT20,M0-M23	3	5300	9.81	10.15	6.85	16.66	17.00
HT20,M0-M23	3	5320	9.64	10.15	6.85	16.49	17.00
HT40,M0-M7	1	5270	9.11	11.00	2.08	11.19	17.00
HT40,M0-M7	1	5310	9.09	11.00	2.08	11.17	17.00
HT40,M0-M23	3	5270	9.22	10.15	6.85	16.07	17.00
HT40,M0-M23	3	5310	9.70	10.15	6.85	16.55	17.00
Result			Complied				

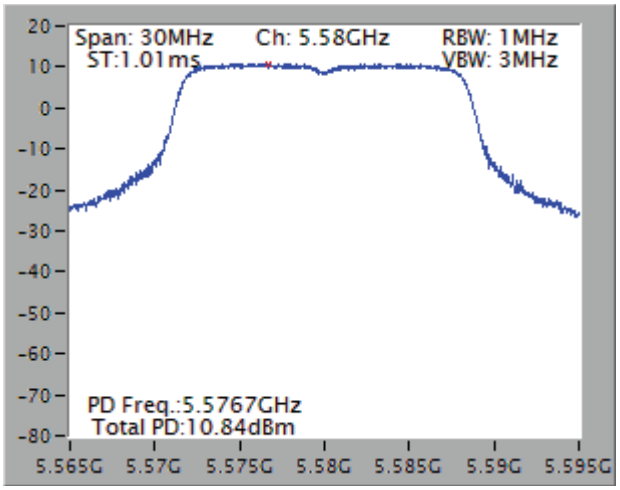
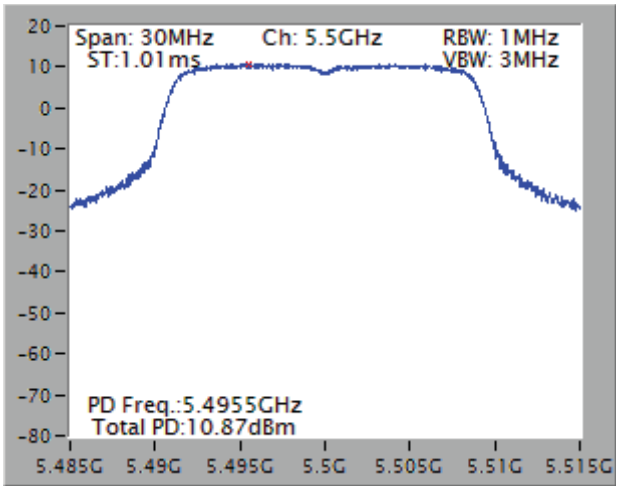
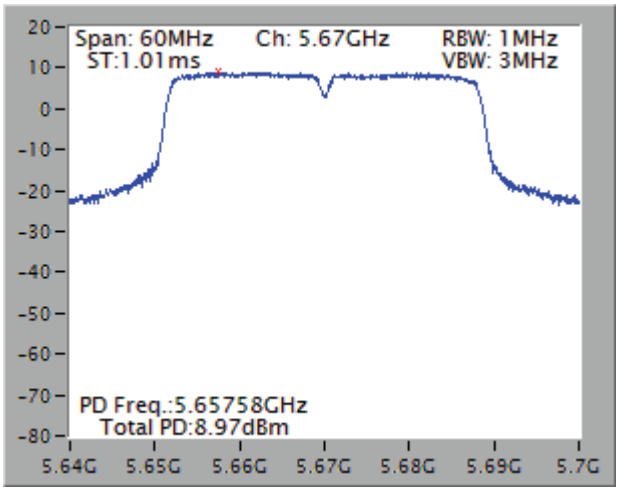
Peak Power Spectral Density Result (5470-5725MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N_{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a,6-54Mbps	1	5500	10.78	11.00	2.08	12.86	17.00
11a,6-54Mbps	1	5580	10.89	11.00	2.08	12.97	17.00
11a,6-54Mbps	1	5700	10.78	11.00	2.08	12.86	17.00
HT20,M0-M7	1	5500	10.92	11.00	2.08	13.00	17.00
HT20,M0-M7	1	5580	10.86	11.00	2.08	12.94	17.00
HT20,M0-M7	1	5700	10.87	11.00	2.08	12.95	17.00
HT20,M0-M23	3	5500	9.64	10.15	6.85	16.49	17.00
HT20,M0-M23	3	5580	9.67	10.15	6.85	16.52	17.00
HT20,M0-M23	3	5700	9.77	10.15	6.85	16.62	17.00
HT40,M0-M7	1	5510	9.06	11.00	2.08	11.14	17.00
HT40,M0-M7	1	5550	8.86	11.00	2.08	10.94	17.00
HT40,M0-M7	1	5670	9.07	11.00	2.08	11.15	17.00
HT40,M0-M23	3	5510	9.32	10.15	6.85	16.17	17.00
HT40,M0-M23	3	5550	9.47	10.15	6.85	16.32	17.00
HT40,M0-M23	3	5670	9.43	10.15	6.85	16.28	17.00
Result			Complied				

5250-5350MHz - Worst Power Spectral Density Plots	
11a	HT20,M0-M7
	
HT40,M0-M7	
	

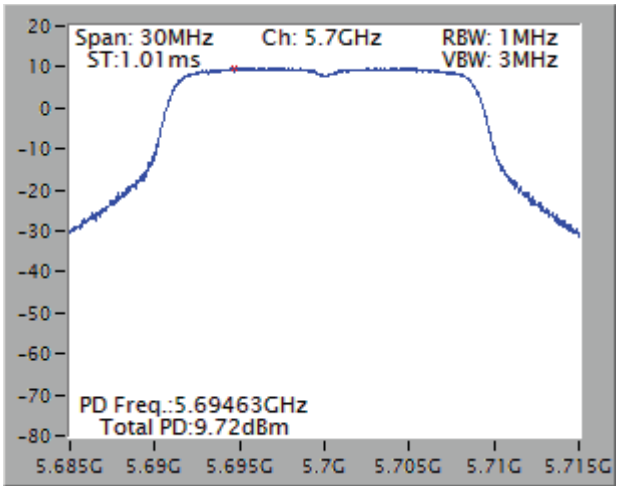
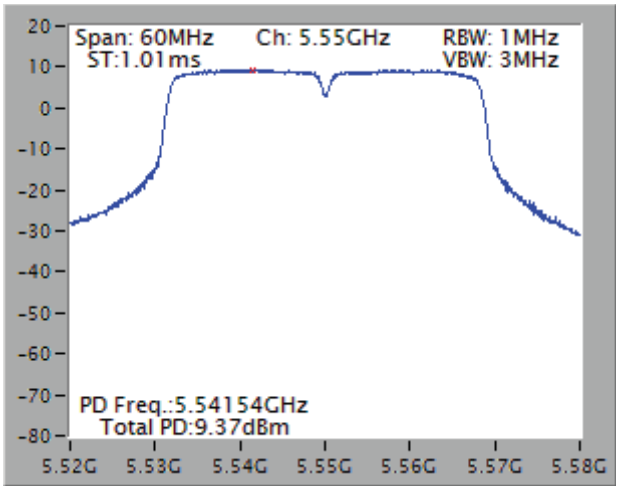
Note 1: Power Density Plots w/o Duty Factor

5250-5350MHz - Worst Power Spectral Density Plots	
HT20,M0-M23	HT40,M0-M23
	

Note 1: Power Density Plots w/o Duty Factor

5470-5725MHz - Worst Power Spectral Density Plots	
11a	HT20,M0-M7
	
HT40,M0-M7	
	

Note 1: Power Density Plots w/o Duty Factor

5470-5725MHz - Worst Power Spectral Density Plots	
HT20,M0-M23	HT40,M0-M23
	

Note 1: Power Density Plots w/o Duty Factor

3.5 Peak Excursion

3.5.1 Peak Excursion Limit

Peak Excursion Limit
UNII Devices
☒ Peak excursion ≤ 13 dB. The ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission does not exceed 13 dB. (Earlier procedures that required computing the ratio of the two spectra at each frequency across the emission bandwidth can lead to unintended failures at band edges and will no longer be required.)
LE-LAN Devices
☒ N/A

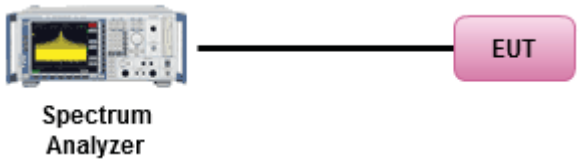
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
☒	Refer as FCC KDB 789033, clause G peak excursion method.
☒	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
☒	For conducted measurement.
	☒ Testing a single output port is sufficient to demonstrate compliance with the peak excursion.

3.5.4 Test Setup

Peak Excursion


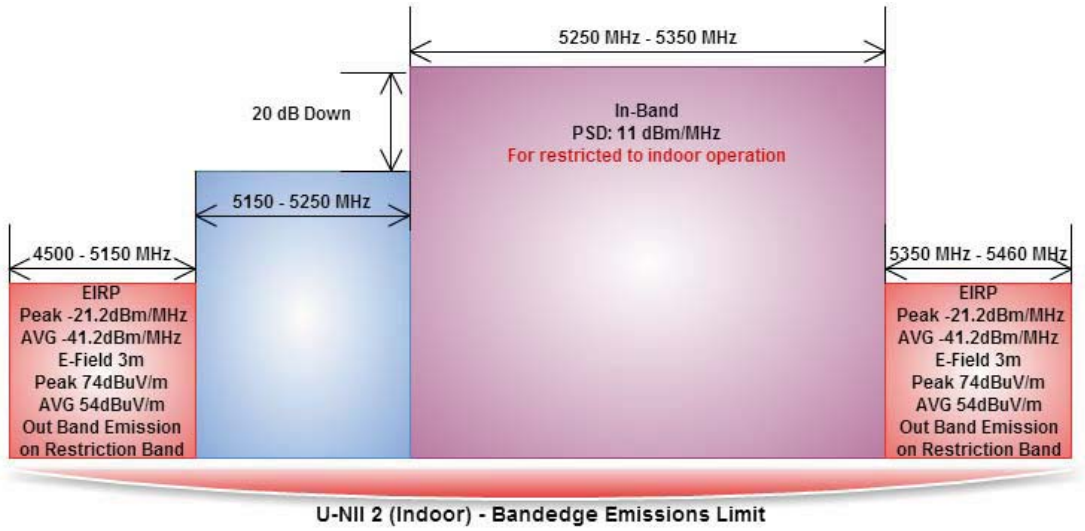
3.5.5 Test Result of Peak Excursion

UNII Peak Excursion Result							
Condition			Peak Excursion (dB)				
Modulation Mode	N_{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	Limit
11a,6-54Mbps	1	5260	7.49	6.97	7.76	8.90	13.0
HT20,M0-M7	1	5260	7.48	7.66	8.10	8.36	13.0
HT40,M0-M7	3	5270	7.71	7.42	8.73	9.15	13.0
Result			Complied				

3.6 Transmitter Radiated Bandedge Emissions

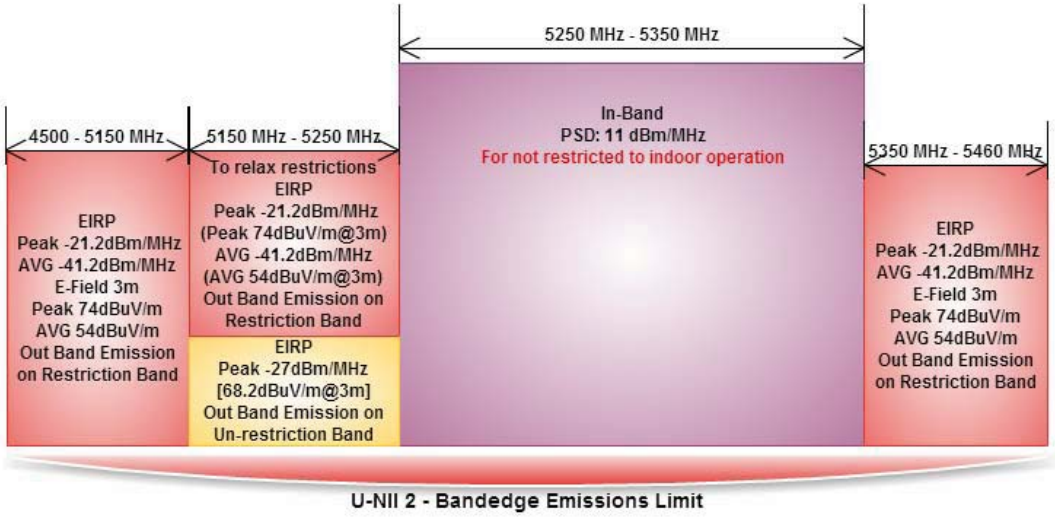
3.6.1 Transmitter Radiated Bandedge Emissions Limit

Transmitter Radiated Bandedge Emissions Limit for Indoor: 5.25-5.35 GHz band



Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

Transmitter Radiated Bandedge Emissions Limit for indoor/outdoor: 5.25-5.35 GHz band



Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

Transmitter Radiated Bandedge Emissions Limit: 5.47-5.725 GHz band

Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

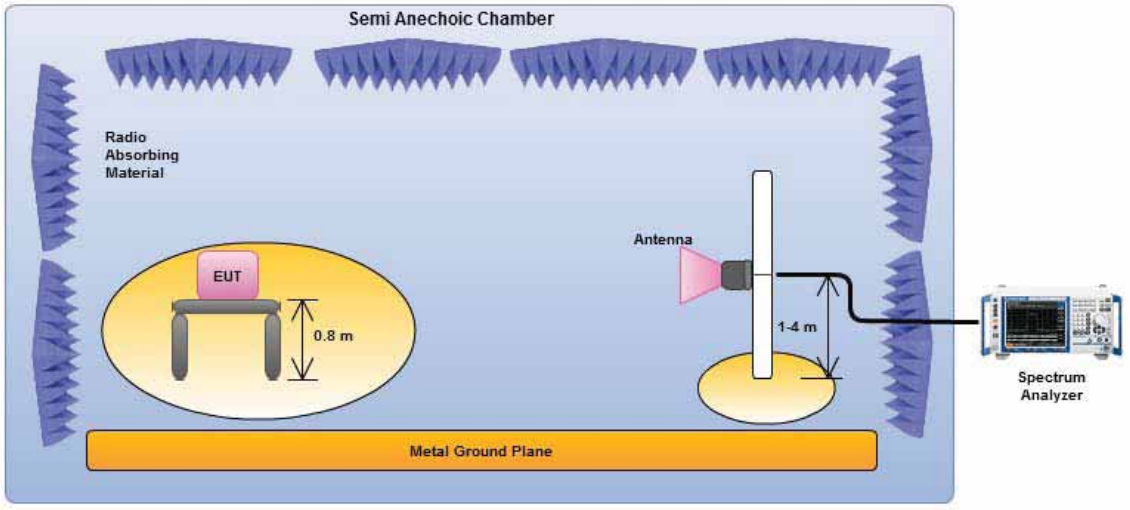
3.6.3 Test Procedures

Test Method			
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 1.5m, because the instrumentation noise floor is typically close to the radiated emission limit.		
☒	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
☒	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.		
☐	If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.)		
	☐	Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).	
	☐	Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).	
☐	If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160)		
	☐	Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).	
	☐	Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).	
☒	For the transmitter unwanted emissions shall be measured using following options below:		
	☒	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.	
	☒	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.	
		☐	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
		☐	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
		☒	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		☐	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
☒	For the transmitter bandedge emissions shall be measured using following options below:		
	☐	Refer as FCC KDB 789033, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).	
	☒	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.	
	☐	Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.	
☒	For radiated measurement, refer as ANSI C63.10, clause 6.5 for radiated emissions from above 1 GHz.		

Test Method	
☐	For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause H)3).
☐	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
☐	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
☐	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup

Transmitter Radiated Bandedge Emissions



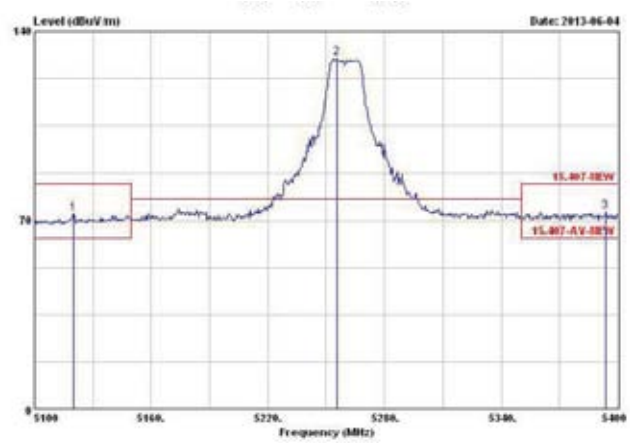
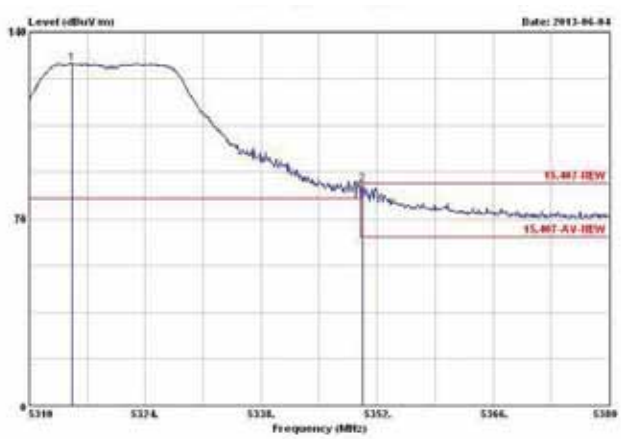
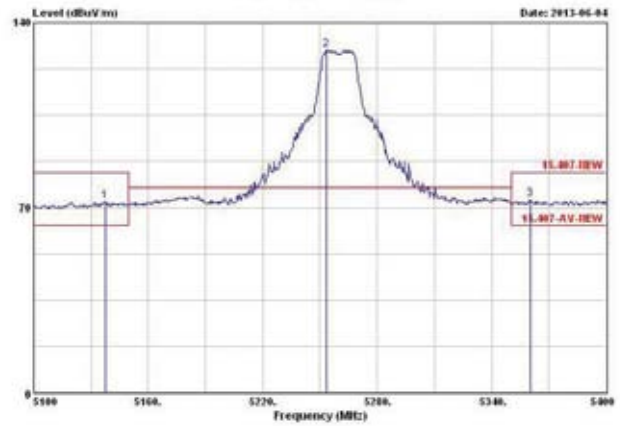
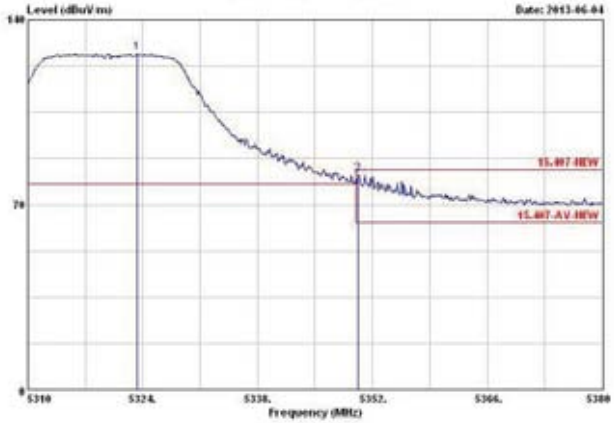
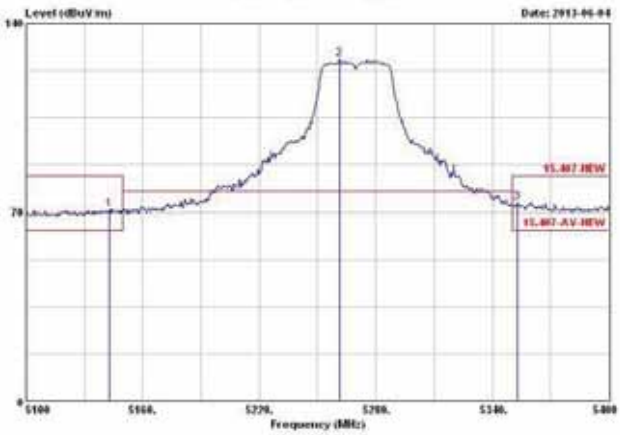
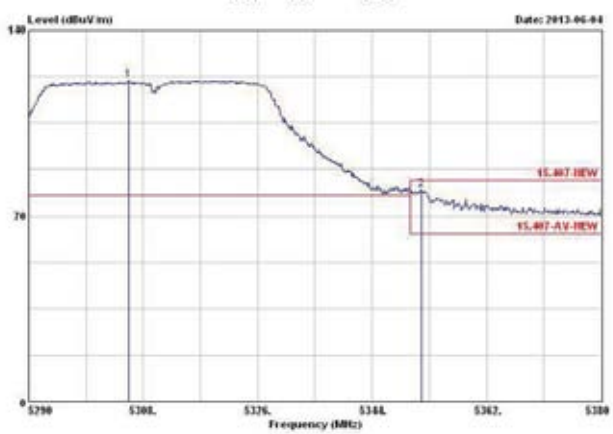
Electric field tests shall be performed in transmitter bandedge emissions using a calibrated horn antenna.

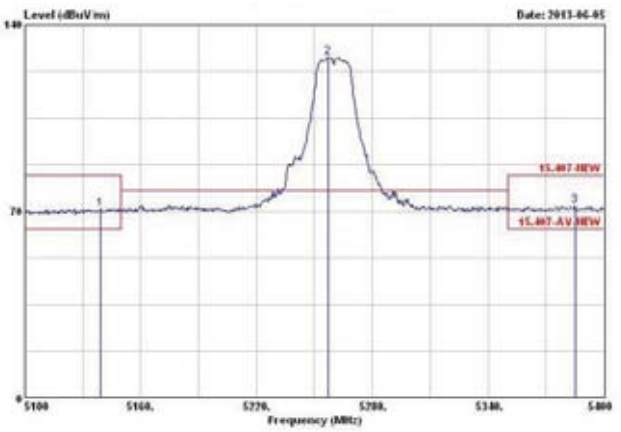
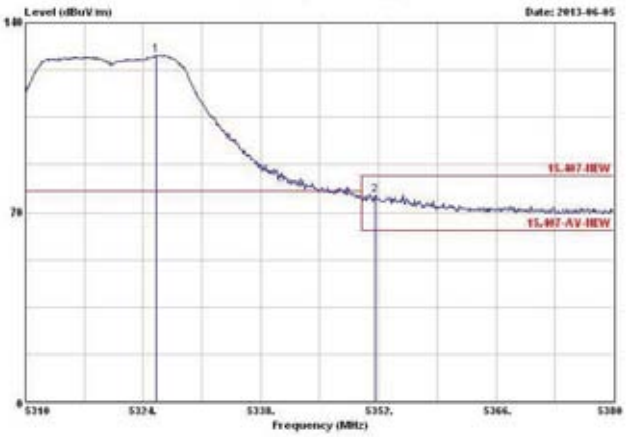
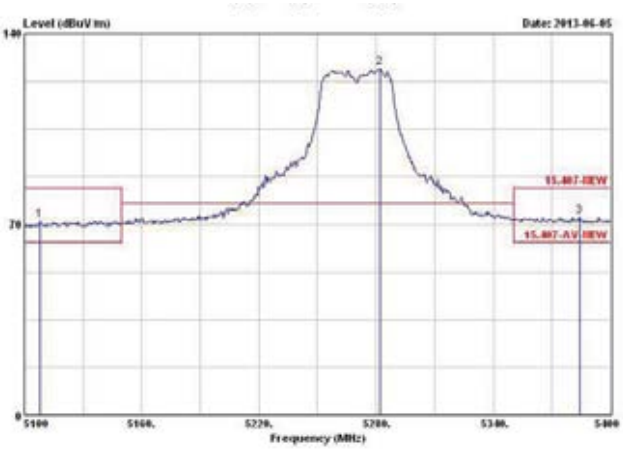
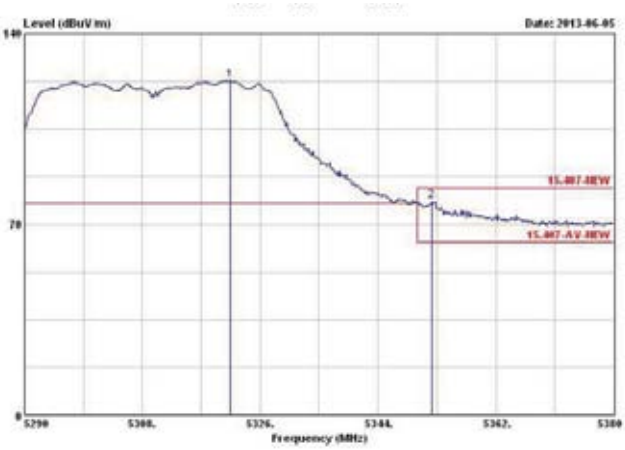
3.6.5 Transmitter Radiated Bandedge Emissions (with Antenna)

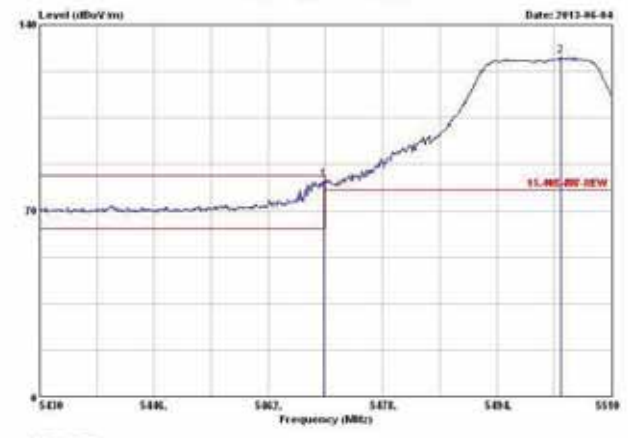
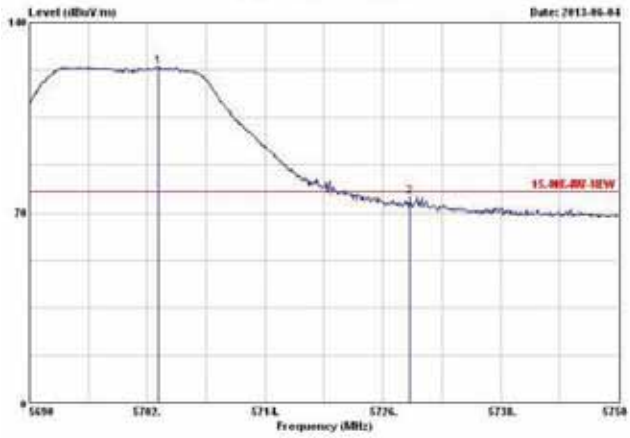
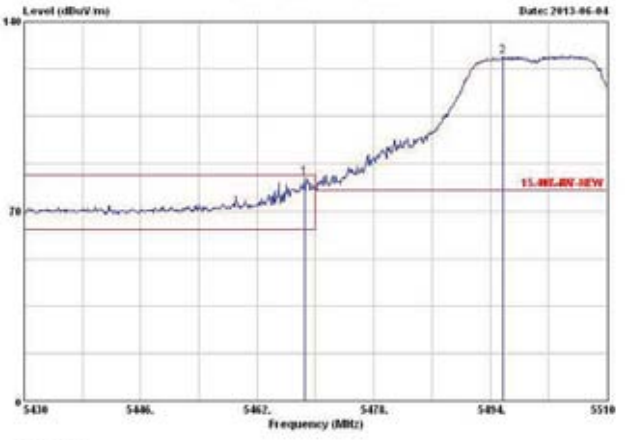
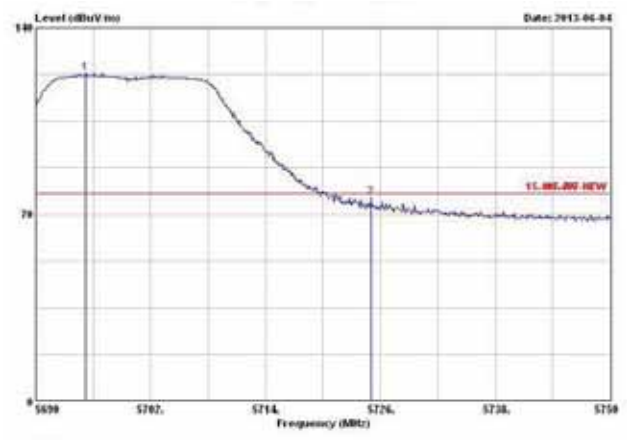
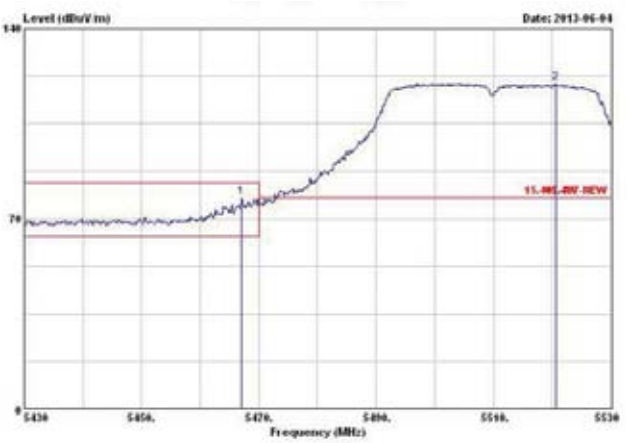
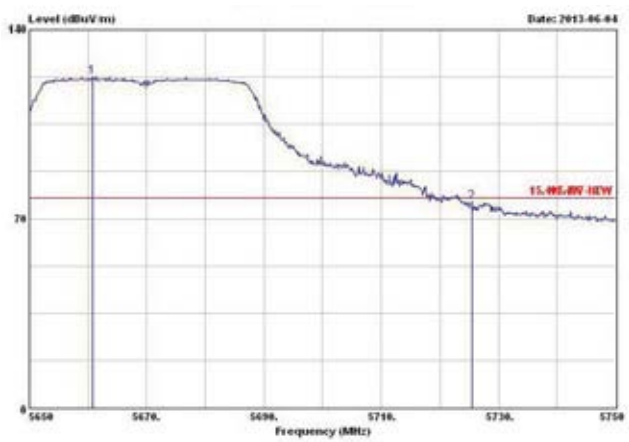
U-NII 5250-5350MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N_{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5320	1	5350.250	82.53	83.54	5350.180	61.98	63.54	H
HT20,M0-7	1	5320	1	5350.250	81.58	83.54	5350.180	61.48	63.54	H
HT20,M0-23	3	5320	1	5351.650	76.40	83.54	5350.000	60.76	63.54	H
HT40,M0-7	1	5310	1	5351.740	79.69	83.54	5350.030	61.67	63.54	H
HT40,M0-23	3	5310	1	5352.190	78.37	83.54	5351.020	62.06	63.54	H
Note 1: Measurement worst emissions of receive antenna polarization.										

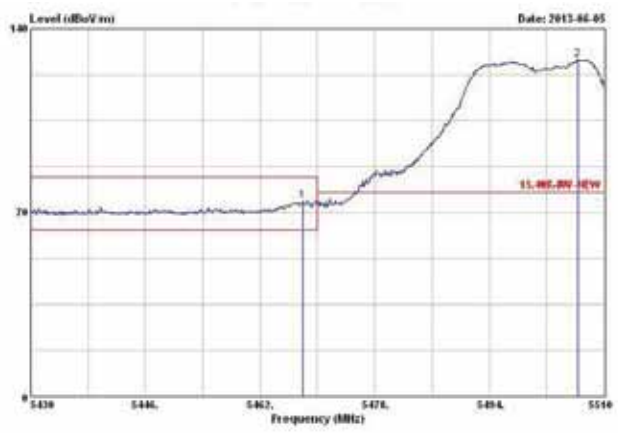
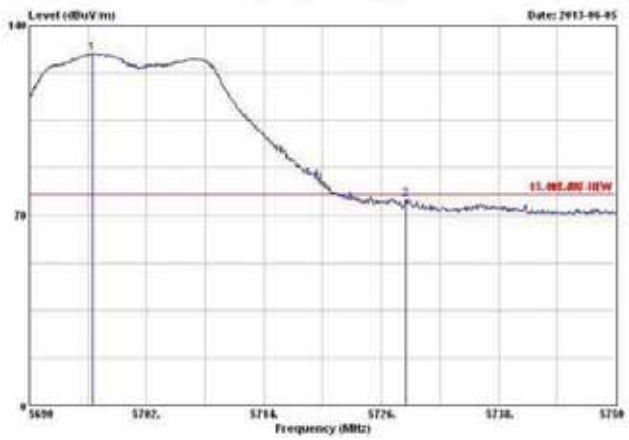
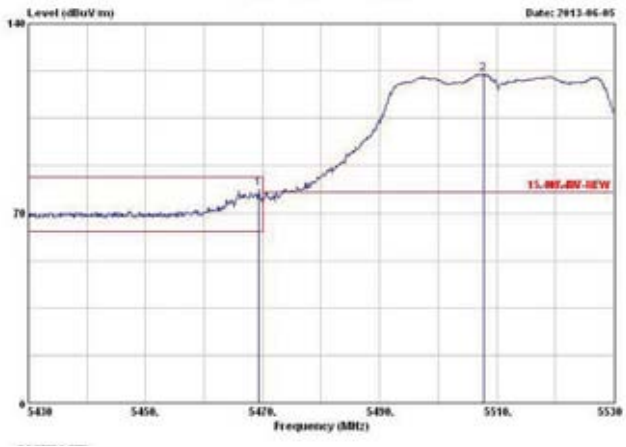
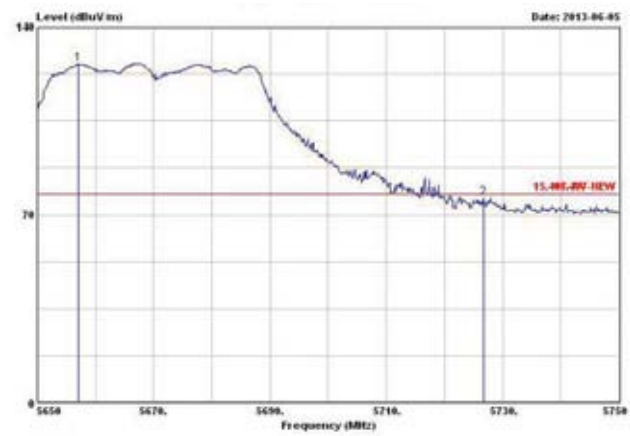
U-NII 5470-5725MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N_{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5500	1	5469.840	81.69	83.54	5469.600	59.91	63.54	H
11a	1	5700	1	5728.760	75.96	83.54	5725.220	59.36	63.54	H
HT20,M0-7	1	5500	1	5468.560	82.30	83.54	5470.000	60.33	63.54	H
HT20,M0-7	1	5700	1	5725.000	76.29	83.54	5725.000	59.34	63.54	H
HT20,M0-23	3	5500	1	5468.000	74.41	83.54	5468.560	59.51	63.54	H
HT20,M0-23	3	5700	1	5728.520	75.89	83.54	5727.140	61.11	63.54	H
HT40,M0-7	1	5510	1	5467.100	77.72	83.54	5470.000	61.39	63.54	H
HT40,M0-7	1	5670	1	5725.400	76.15	83.54	5725.400	58.85	63.54	H
HT40,M0-23	3	5510	1	5469.400	78.89	83.54	5468.200	61.67	63.54	H
HT40,M0-23	3	5670	1	5726.700	76.39	83.54	5726.600	60.84	63.54	H
Note 1: Measurement worst emissions of receive antenna polarization.										

3m->1m=9.54dB; 3m->1.5m=6.02dB

5250-5350MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna)	
11a-(Lowest Ch.)	11a-(Highest Ch.)
	
HT20,M0-7-(Lowest Ch.)	HT20,M0-7-(Highest Ch.)
	
HT40,M0-7-(Lowest Ch.)	HT40,M0-7-(Highest Ch.)
	

5250-5350MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna)	
HT20,M0-23-(Lowest Ch.)	HT20,M0-23-(Highest Ch.)
	
HT40,M0-23-(Lowest Ch.)	HT40,M0-23-(Highest Ch.)
	

5470-5725MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna)	
11a-(Lowest Ch.)	11a-(Highest Ch.)
	
HT20,M0-7-(Lowest Ch.)	HT20,M0-7-(Highest Ch.)
	
HT40,M0-7-(Lowest Ch.)	HT40,M0-7-(Highest Ch.)
	

5470-5725MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna)	
HT20,M0-23-(Lowest Ch.)	HT20,M0-23-(Highest Ch.)
	
HT40,M0-23-(Lowest Ch.)	HT40,M0-23-(Highest Ch.)
	

3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.825 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.825 5.835 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

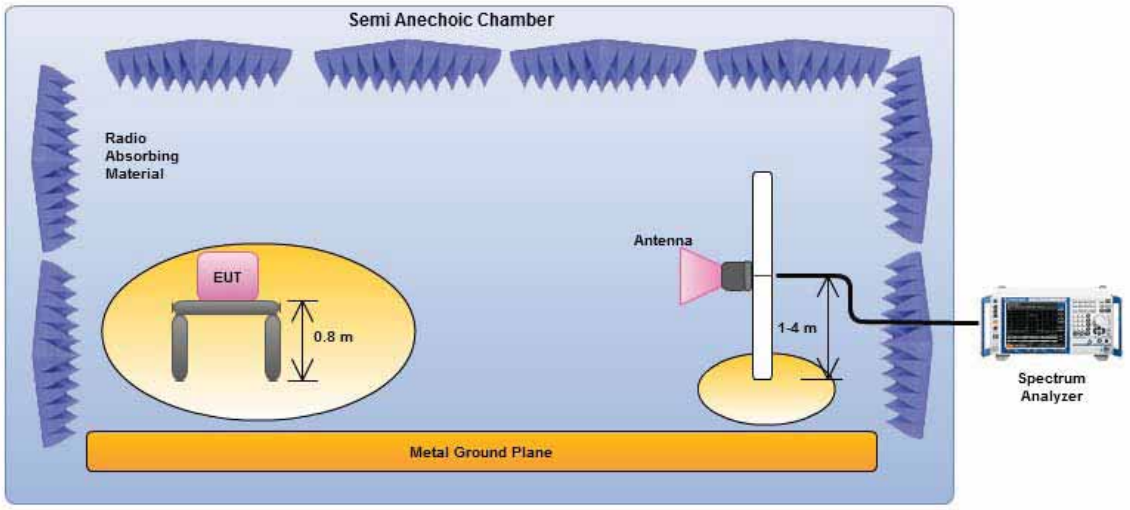
3.7.3 Test Procedures

Test Method			
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		
	☒	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 1.5m, because the instrumentation noise floor is typically close to the radiated emission limit.	
	☒	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.	
	☒	Measurements in the frequency range above 18 GHz - 40GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.	
☒	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
☒	For the transmitter unwanted emissions shall be measured using following options below:		
	☒	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.	
	☒	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.	
		☐	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
		☐	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
		☒	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		☐	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
☒	For radiated measurement.		
	☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.	
	☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.	
	☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.	

Test Method	
☐	For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause H)3).
	☐ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	☐ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	☐ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.7.4 Test Setup

Transmitter Radiated Unwanted Emissions



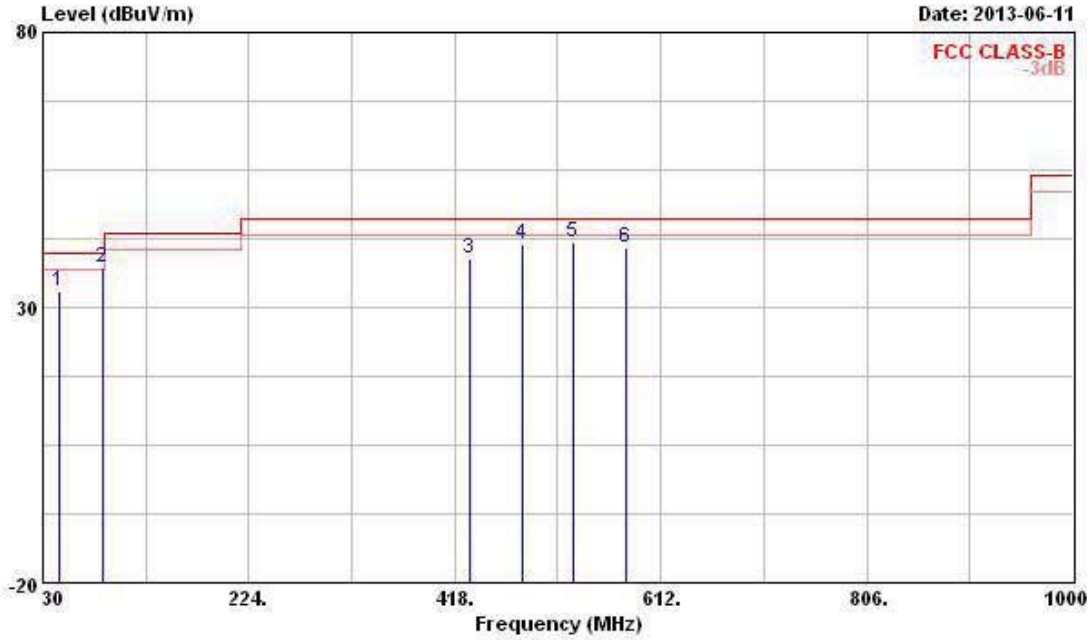
Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

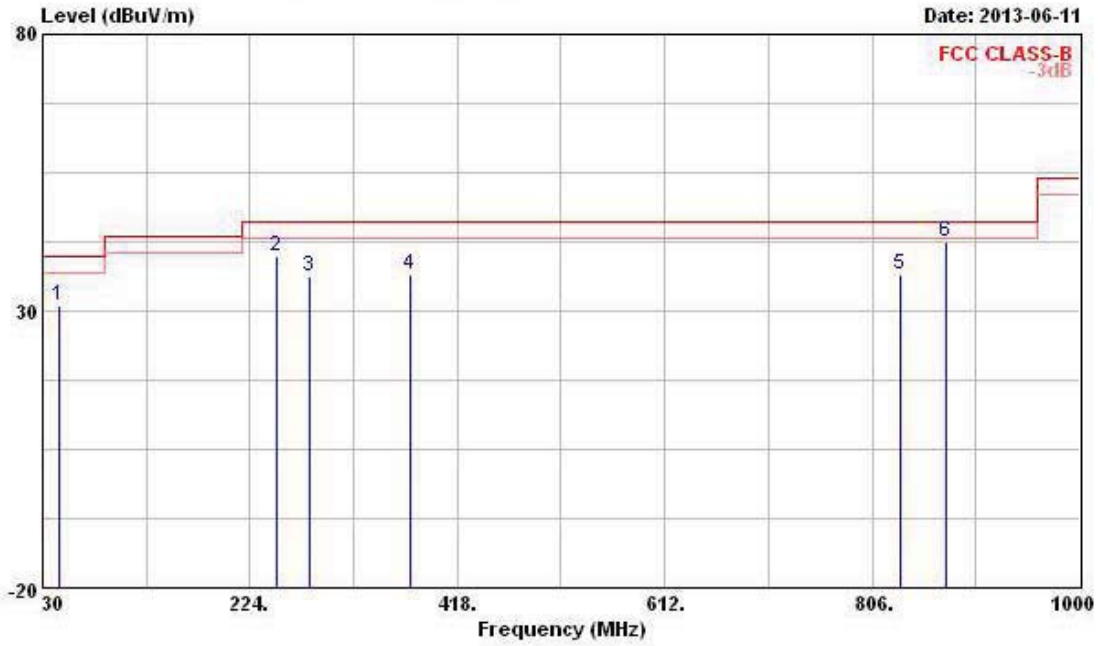
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	45.520	32.83	-7.17	40.00	47.99	11.78	0.94	27.88	QP	---	---
2 @	86.260	37.08	-2.92	40.00	54.92	8.73	1.32	27.89	QP	---	---
3	432.550	39.03	-6.97	46.00	48.13	15.92	3.10	28.12	Peak	---	---
4	482.020	41.36	-4.64	46.00	49.48	16.93	3.33	28.38	Peak	---	---
5	529.550	41.74	-4.26	46.00	48.62	18.12	3.50	28.50	Peak	---	---
6	579.020	40.91	-5.09	46.00	46.27	19.56	3.62	28.54	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

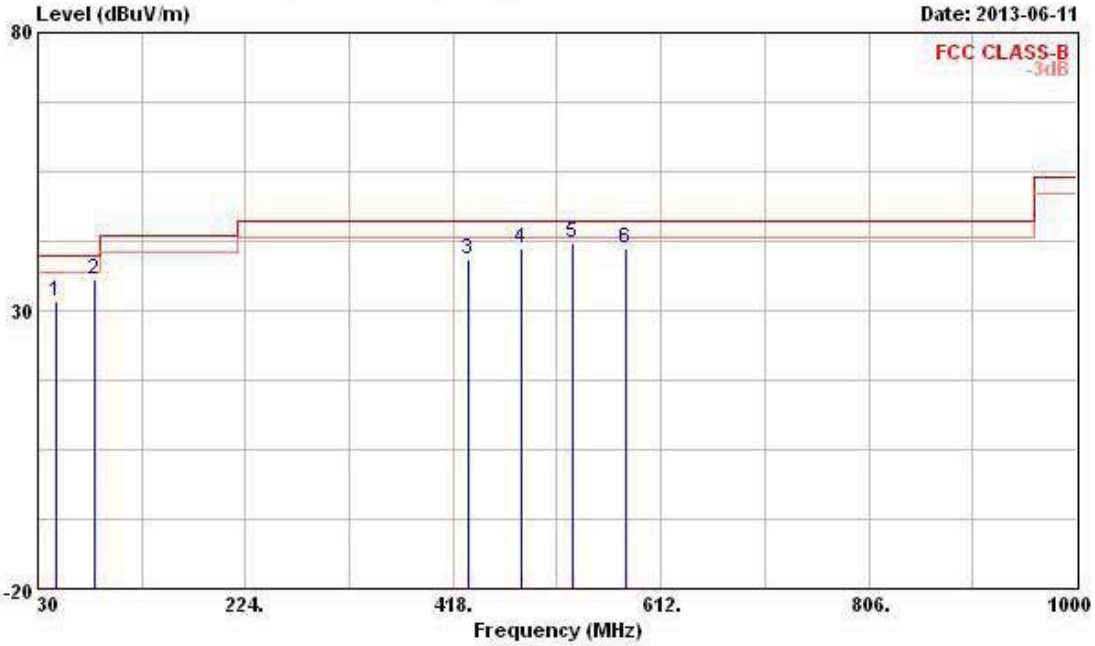
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	44.550	30.89	-9.11	40.00	45.82	12.02	0.93	27.88	Peak	---	---
2	249.220	39.80	-6.20	46.00	51.81	12.97	2.38	27.36	Peak	---	---
3	280.260	36.16	-9.84	46.00	47.51	13.43	2.49	27.27	Peak	---	---
4	374.350	36.44	-9.56	46.00	46.44	14.86	2.90	27.76	Peak	---	---
5	832.190	36.42	-9.58	46.00	39.74	20.19	4.48	27.99	Peak	---	---
6	874.870	42.44	-3.56	46.00	45.64	20.09	4.56	27.85	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

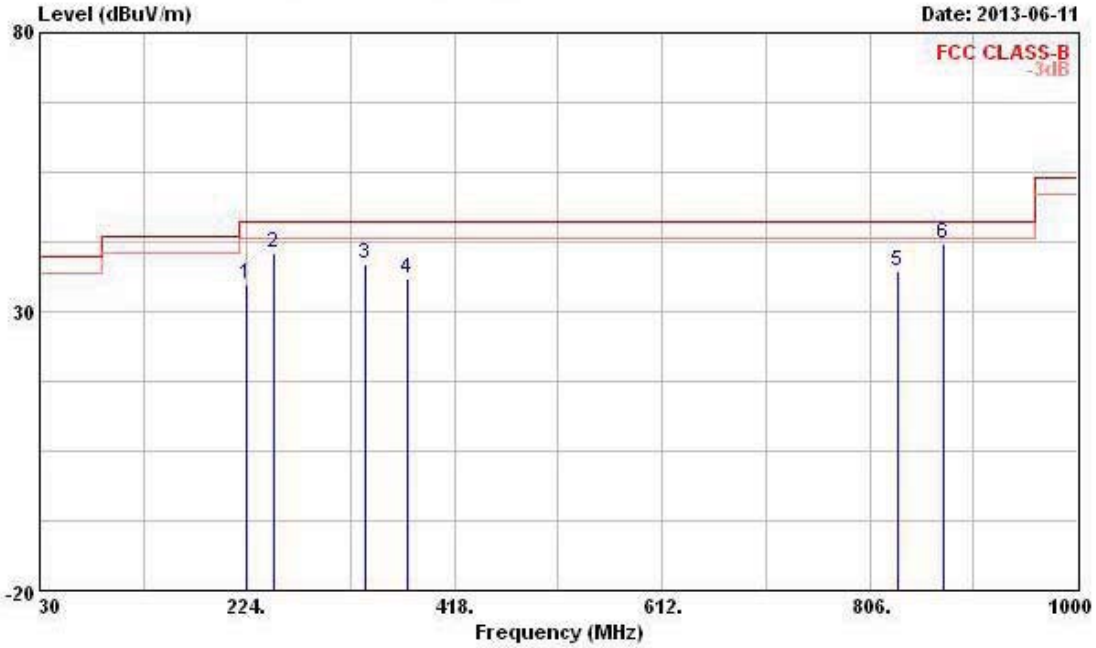
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	47.460	31.74	-8.26	40.00	47.82	10.82	0.97	27.87	QP	---	---
2	82.380	35.73	-4.27	40.00	54.36	7.95	1.30	27.88	QP	---	---
3	432.550	39.12	-6.88	46.00	48.22	15.92	3.10	28.12	Peak	---	---
4	482.020	41.23	-4.77	46.00	49.35	16.93	3.33	28.38	Peak	---	---
5	529.550	42.11	-3.89	46.00	48.99	18.12	3.50	28.50	Peak	---	---
6	579.020	41.11	-4.89	46.00	46.47	19.56	3.62	28.54	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

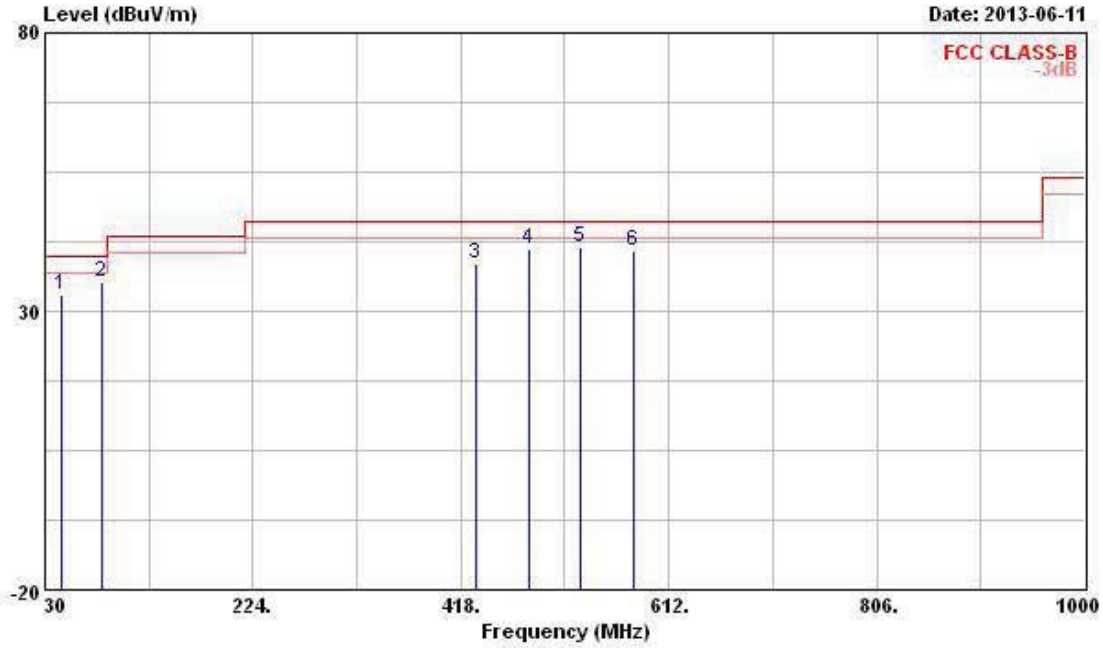
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	223.030	35.06	-10.94	46.00	48.17	12.11	2.22	27.44	Peak	---	---
2	249.220	40.42	-5.58	46.00	52.43	12.97	2.38	27.36	Peak	---	---
3	334.580	38.60	-7.40	46.00	49.07	14.25	2.74	27.46	Peak	---	---
4	374.350	36.05	-9.95	46.00	46.05	14.86	2.90	27.76	Peak	---	---
5	832.190	37.35	-8.65	46.00	40.67	20.19	4.48	27.99	Peak	---	---
6	874.870	42.05	-3.95	46.00	45.25	20.09	4.56	27.85	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

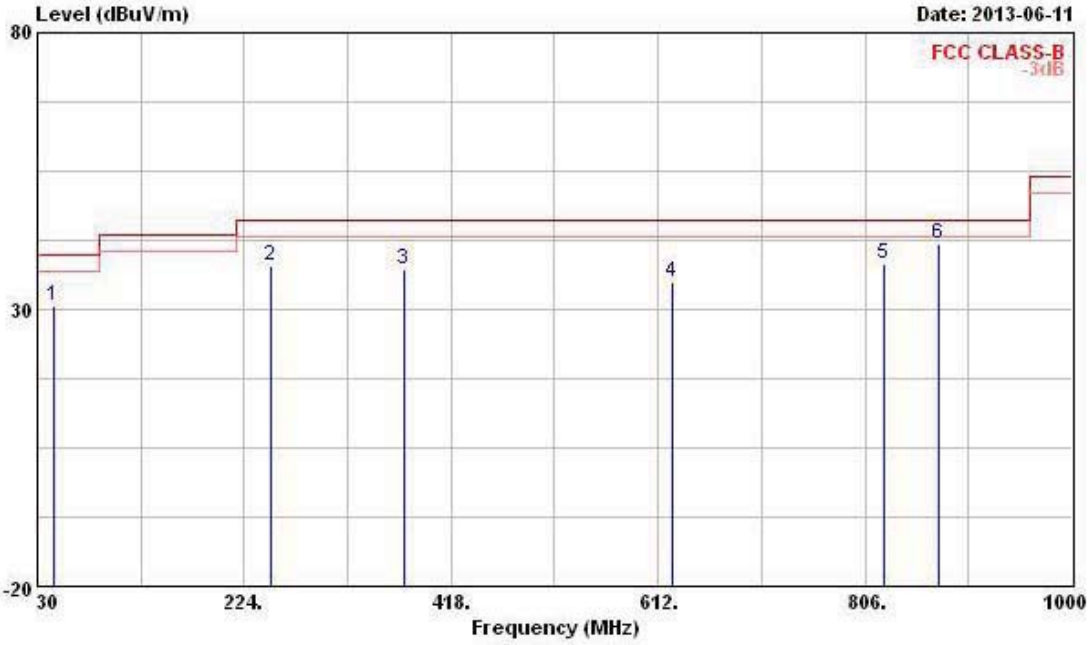
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	44.550	33.00	-7.00	40.00	47.93	12.02	0.93	27.88	QP	---	---
2	83.350	35.15	-4.85	40.00	53.58	8.14	1.31	27.88	QP	---	---
3	432.550	38.55	-7.45	46.00	47.65	15.92	3.10	28.12	Peak	---	---
4	482.020	41.08	-4.92	46.00	49.20	16.93	3.33	28.38	Peak	---	---
5	529.550	41.44	-4.56	46.00	48.32	18.12	3.50	28.50	Peak	---	---
6	579.020	40.82	-5.18	46.00	46.18	19.56	3.62	28.54	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

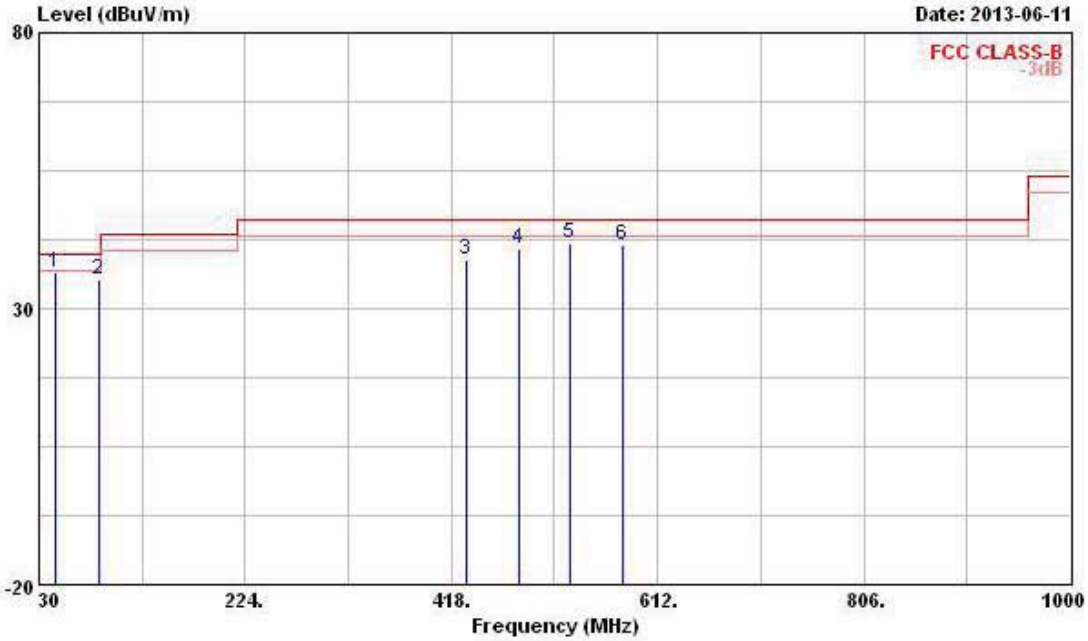
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	44.550	30.52	-9.48	40.00	45.45	12.02	0.93	27.88	Peak	---	---
2	249.220	37.78	-8.22	46.00	49.79	12.97	2.38	27.36	Peak	---	---
3	374.350	37.27	-8.73	46.00	47.27	14.86	2.90	27.76	Peak	---	---
4	625.580	34.91	-11.09	46.00	39.80	19.84	3.80	28.53	Peak	---	---
5	824.430	38.08	-7.92	46.00	41.41	20.21	4.47	28.01	Peak	---	---
6	874.870	41.93	-4.07	46.00	45.13	20.09	4.56	27.85	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

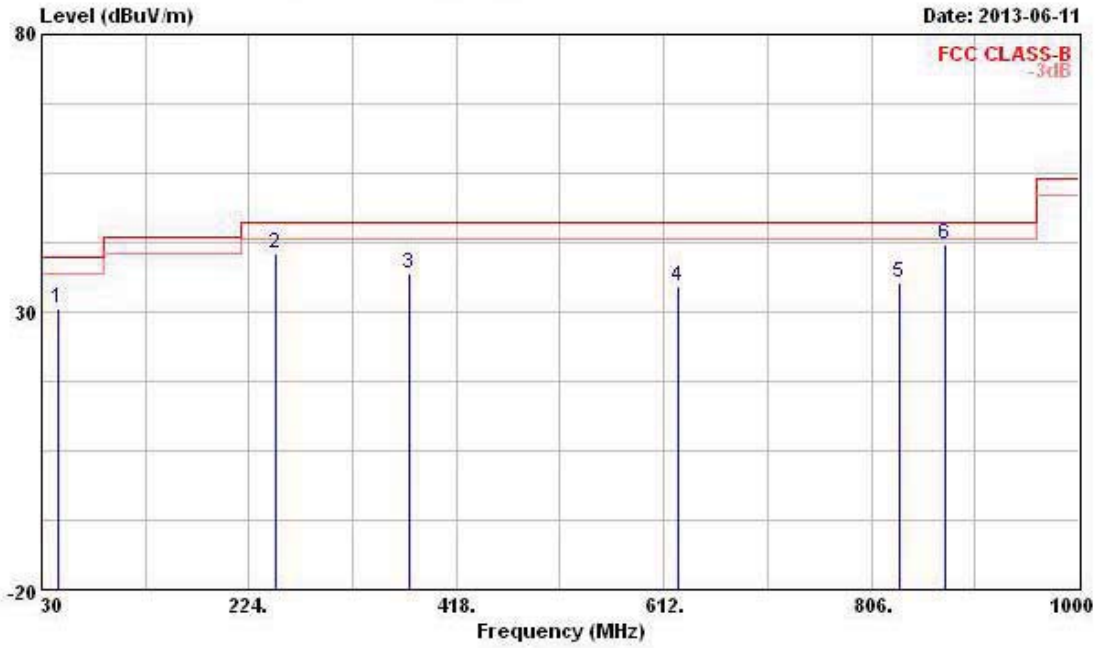
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	44.550	36.64	-3.36	40.00	51.57	12.02	0.93	27.88	Peak	---	---
2	86.260	35.23	-4.77	40.00	53.07	8.73	1.32	27.89	QP	---	---
3	432.550	38.81	-7.19	46.00	47.91	15.92	3.10	28.12	Peak	---	---
4	482.020	40.89	-5.11	46.00	49.01	16.93	3.33	28.38	Peak	---	---
5	529.550	41.85	-4.15	46.00	48.73	18.12	3.50	28.50	Peak	---	---
6	579.020	41.36	-4.64	46.00	46.72	19.56	3.62	28.54	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

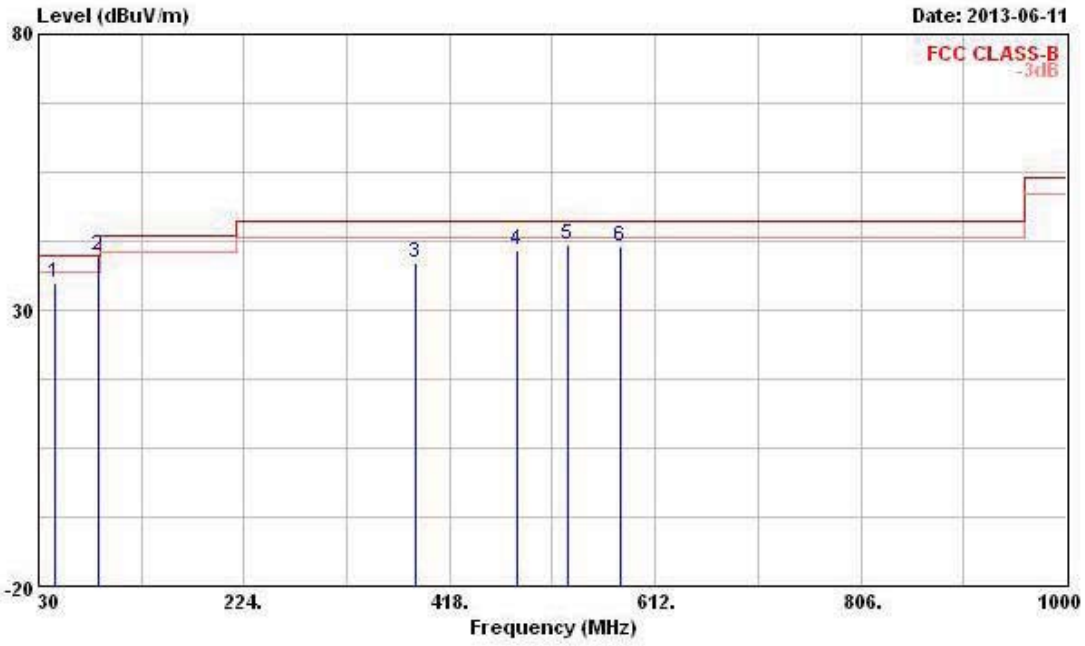
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	44.550	30.72	-9.28	40.00	45.65	12.02	0.93	27.88	Peak	---	---
2	249.220	40.39	-5.61	46.00	52.40	12.97	2.38	27.36	Peak	---	---
3	374.350	36.83	-9.17	46.00	46.83	14.86	2.90	27.76	Peak	---	---
4	625.580	34.53	-11.47	46.00	39.42	19.84	3.80	28.53	Peak	---	---
5	832.190	35.26	-10.74	46.00	38.58	20.19	4.48	27.99	Peak	---	---
6	874.870	42.10	-3.90	46.00	45.30	20.09	4.56	27.85	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

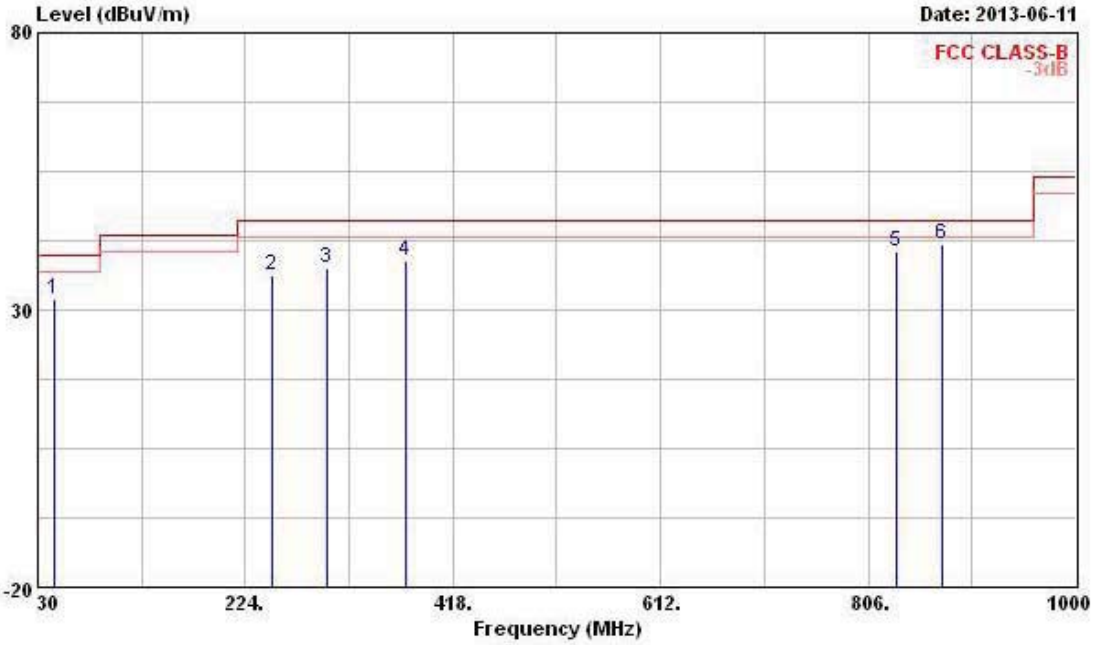
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	45.520	34.97	-5.03	40.00	50.13	11.78	0.94	27.88	QP	---	---
2 @	86.260	39.91	-0.09	40.00	57.75	8.73	1.32	27.89	QP	---	---
3	385.020	38.43	-7.57	46.00	48.30	15.03	2.93	27.83	Peak	---	---
4	482.020	40.96	-5.04	46.00	49.08	16.93	3.33	28.38	Peak	---	---
5	529.550	41.89	-4.11	46.00	48.77	18.12	3.50	28.50	Peak	---	---
6	579.020	41.52	-4.48	46.00	46.88	19.56	3.62	28.54	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	3	**Polarization**	V

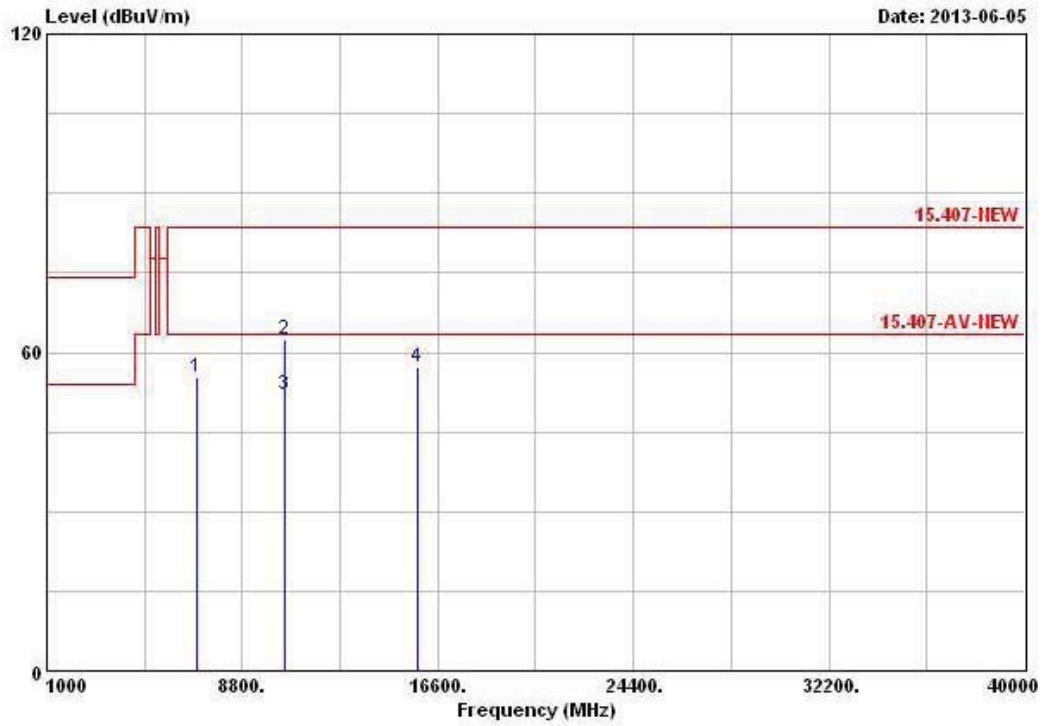


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	44.550	32.06	-7.94	40.00	46.99	12.02	0.93	27.88	Peak	---	---
2	249.220	36.11	-9.89	46.00	48.12	12.97	2.38	27.36	Peak	---	---
3	299.660	37.43	-8.57	46.00	48.39	13.70	2.55	27.21	Peak	---	---
4	374.350	38.83	-7.17	46.00	48.83	14.86	2.90	27.76	Peak	---	---
5	832.190	40.53	-5.47	46.00	43.85	20.19	4.48	27.99	Peak	---	---
6	874.870	41.86	-4.14	46.00	45.06	20.09	4.56	27.85	Peak	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

3.7.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5250-5350MHz

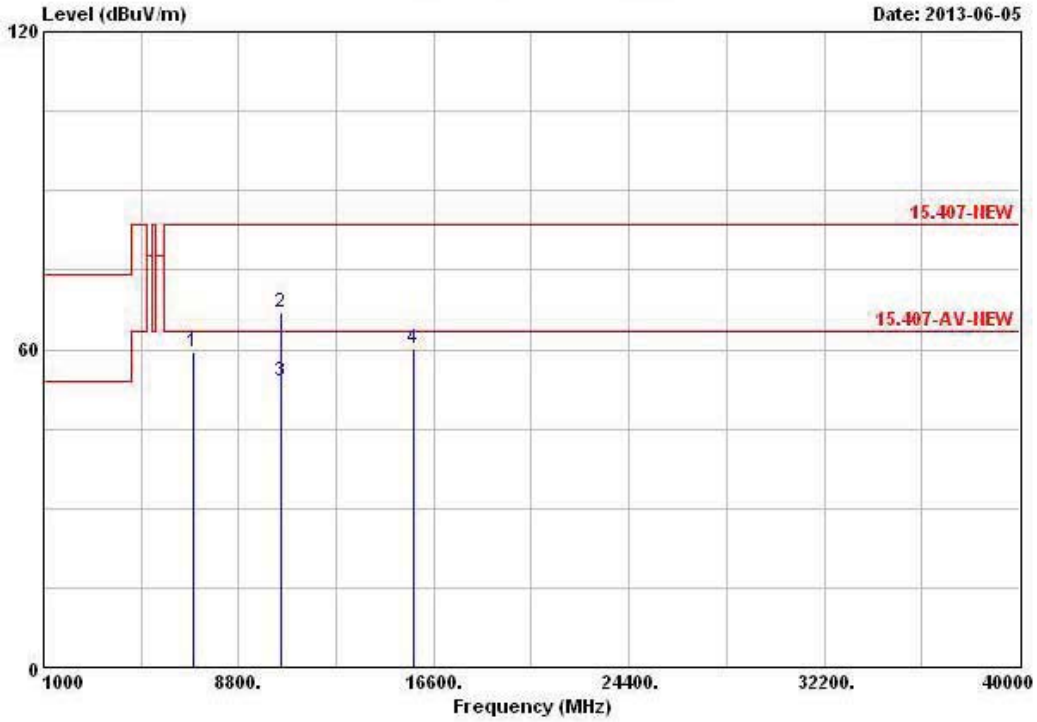
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5260
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7013.000	55.22	-8.32	63.54	46.97	36.64	4.39	32.78	PK	---	---
2	10520.000	62.55	-20.99	83.54	51.20	39.00	5.22	32.87	Peak	---	---
3	10520.000	52.00	-11.54	63.54	40.65	39.00	5.22	32.87	Average	---	---
4	15780.000	57.24	-6.30	63.54	43.92	38.21	7.66	32.55	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

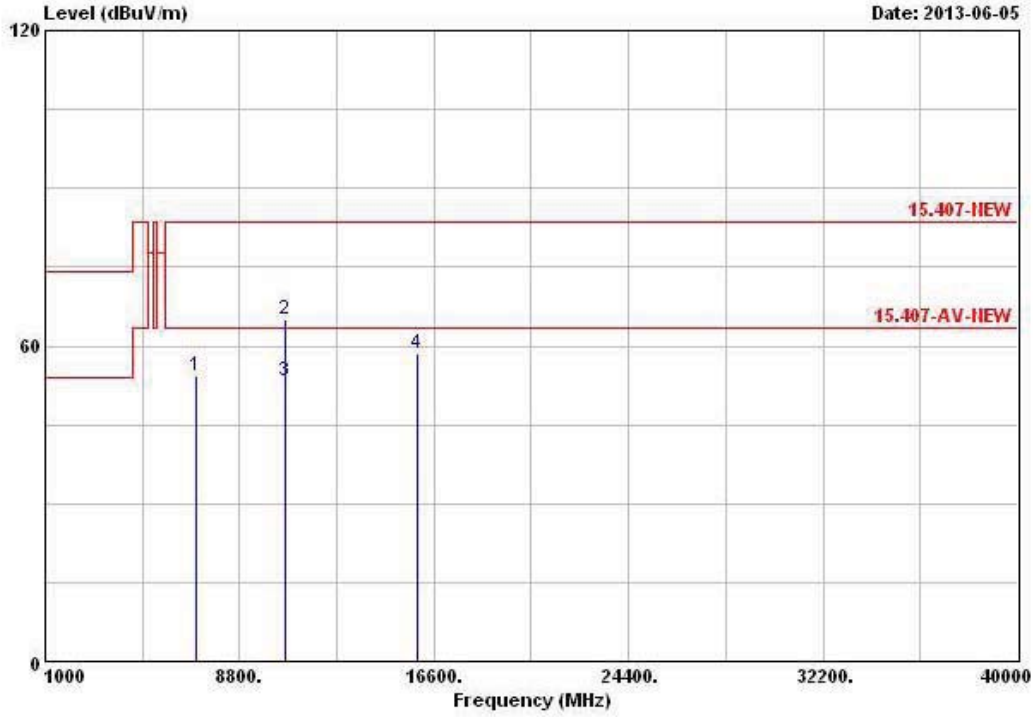
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5260
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7013.000	59.35	-4.19	63.54	51.10	36.64	4.39	32.78	PK	---	---
2	10520.000	66.97	-16.57	83.54	55.62	39.00	5.22	32.87	Peak	---	---
3	10520.000	54.00	-9.54	63.54	42.65	39.00	5.22	32.87	Average	---	---
4	15780.000	60.31	-3.23	63.54	46.99	38.21	7.66	32.55	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

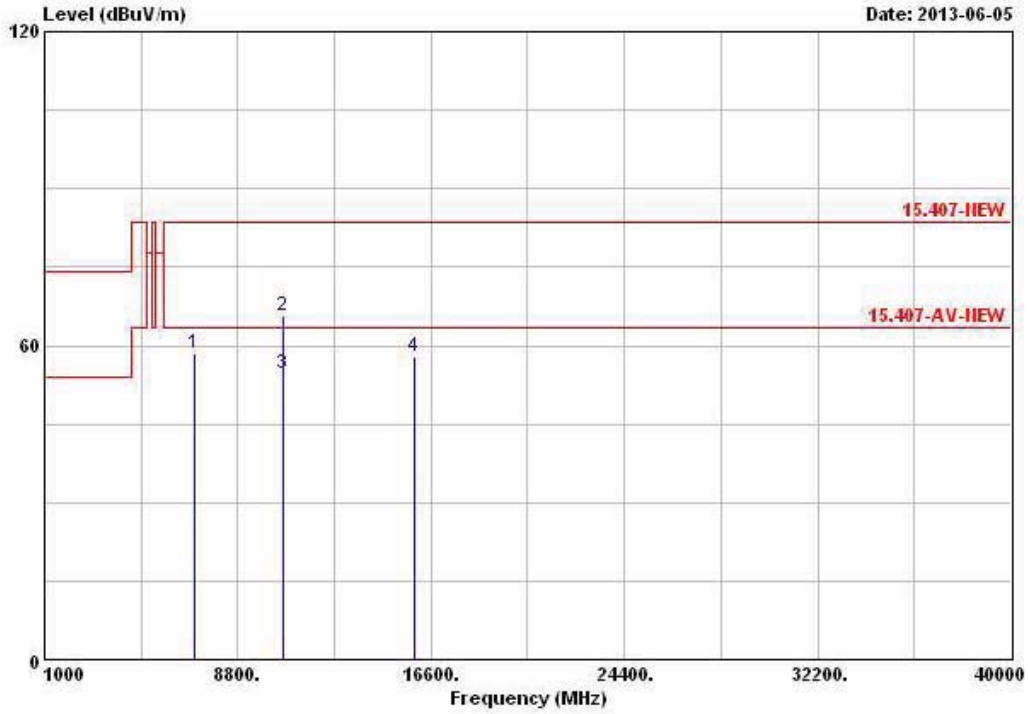
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5300
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	54.20	-9.34	63.54	45.87	36.77	4.35	32.79	PK	---	---
2	10600.000	65.04	-18.50	83.54	53.75	39.02	5.10	32.83	Peak	---	---
3	10600.000	53.49	-10.05	63.54	42.20	39.02	5.10	32.83	Average	---	---
4	15900.000	58.53	-5.01	63.54	45.08	38.26	7.77	32.58	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

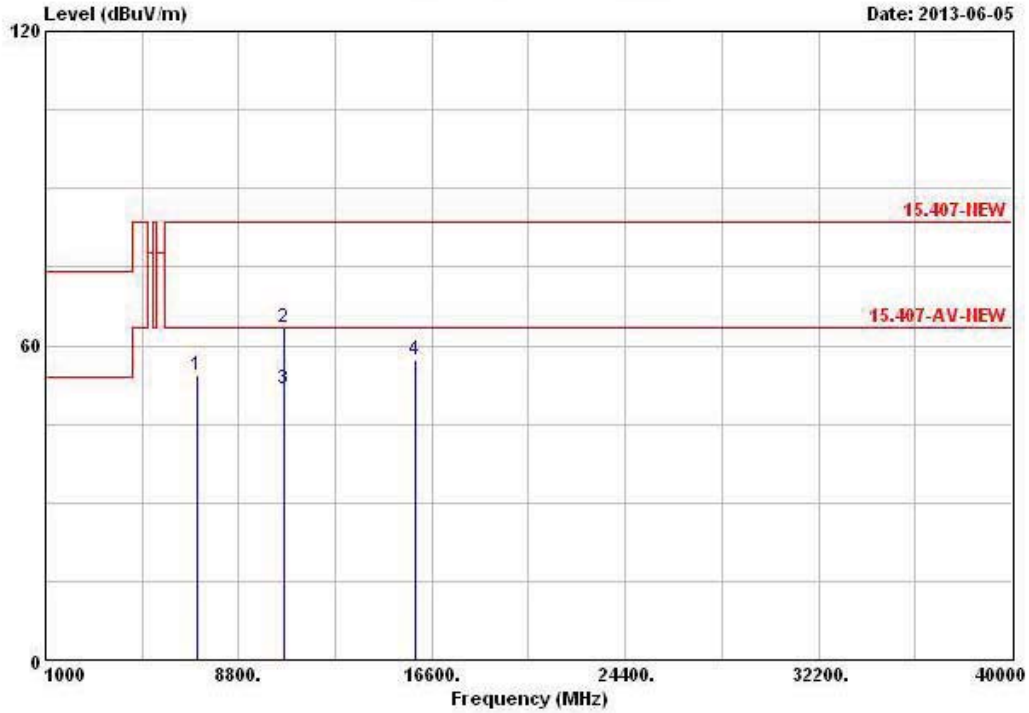
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5300
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	58.49	-5.05	63.54	50.16	36.77	4.35	32.79	PK	---	---
2	10600.000	65.81	-17.73	83.54	54.52	39.02	5.10	32.83	Peak	---	---
3	10600.000	54.67	-8.87	63.54	43.38	39.02	5.10	32.83	Average	---	---
4	15900.000	57.89	-5.65	63.54	44.44	38.26	7.77	32.58	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

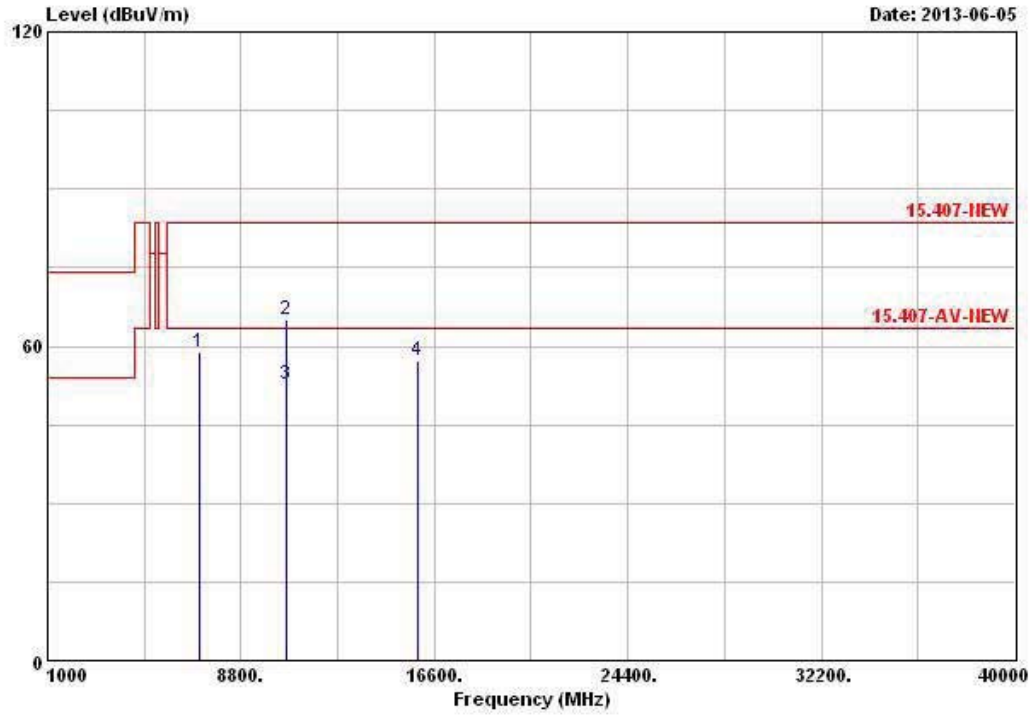
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5320
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7093.000	54.45	-9.09	63.54	46.09	36.81	4.35	32.80	PK	---	---
2	10640.000	63.26	-20.28	83.54	51.99	39.03	5.04	32.80	Peak	---	---
3	10640.000	51.63	-11.91	63.54	40.36	39.03	5.04	32.80	Average	---	---
4	15960.000	57.22	-6.32	63.54	43.69	38.29	7.85	32.61	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

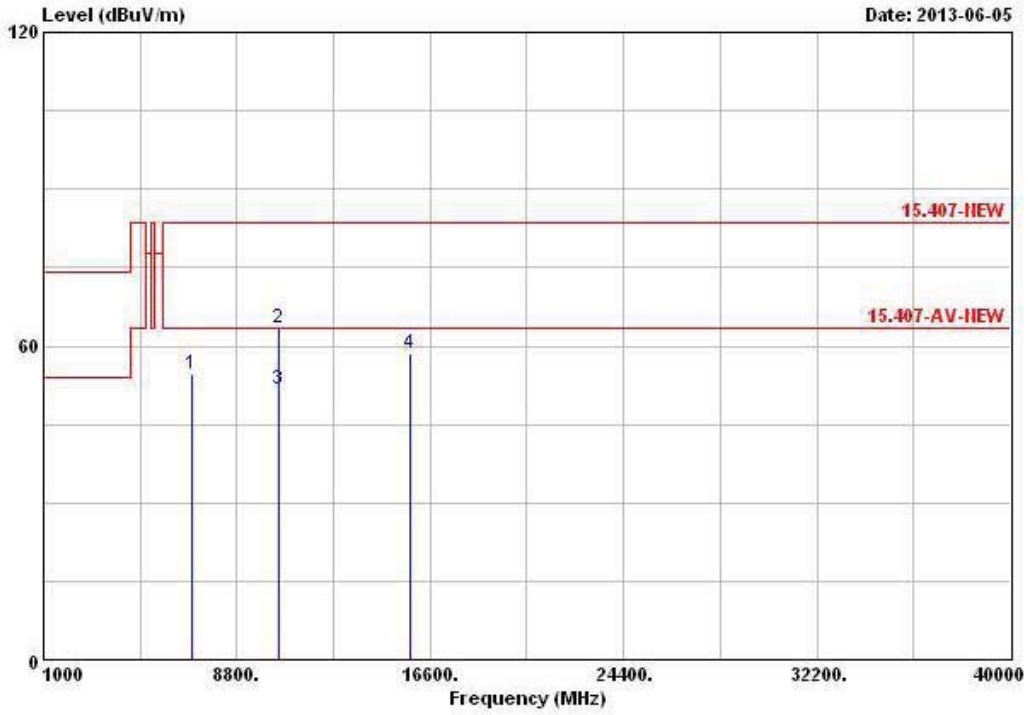
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5320
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7093.000	58.99	-4.55	63.54	50.63	36.81	4.35	32.80	PK	---	---
2	10640.000	65.12	-18.42	83.54	53.85	39.03	5.04	32.80	Peak	---	---
3	10640.000	52.83	-10.71	63.54	41.56	39.03	5.04	32.80	Average	---	---
4	15960.000	57.33	-6.21	63.54	43.80	38.29	7.85	32.61	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

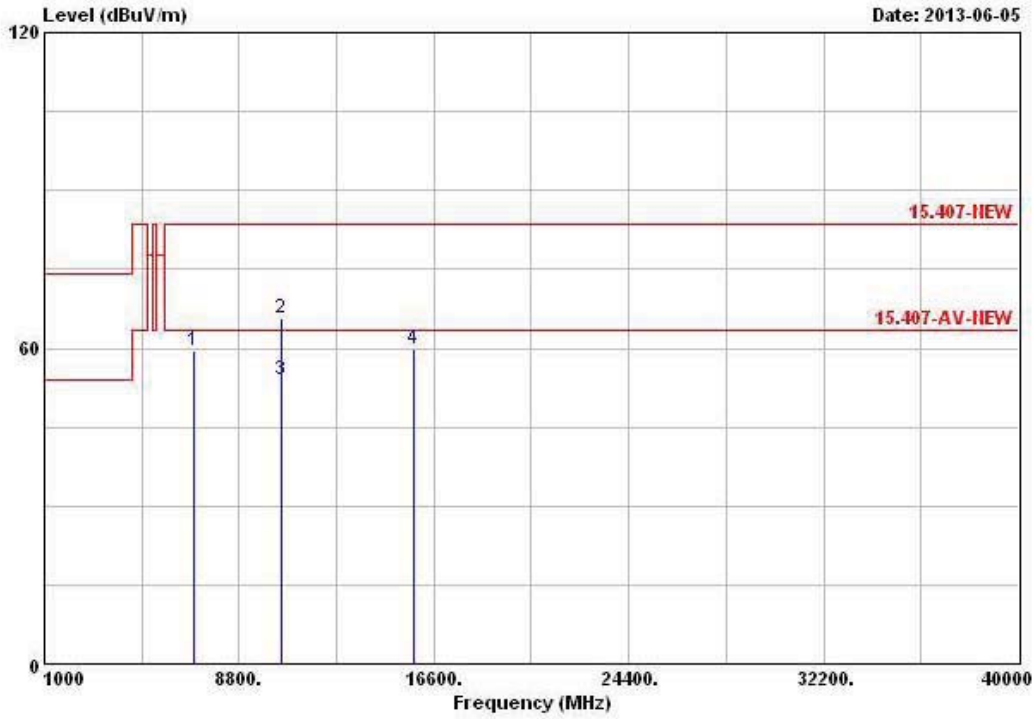
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5260
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7013.000	54.78	-8.76	63.54	46.53	36.64	4.39	32.78	PK	---	---
2	10520.000	63.41	-20.13	83.54	52.06	39.00	5.22	32.87	Peak	---	---
3	10520.000	51.86	-11.68	63.54	40.51	39.00	5.22	32.87	Average	---	---
4	15780.000	58.55	-4.99	63.54	45.23	38.21	7.66	32.55	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

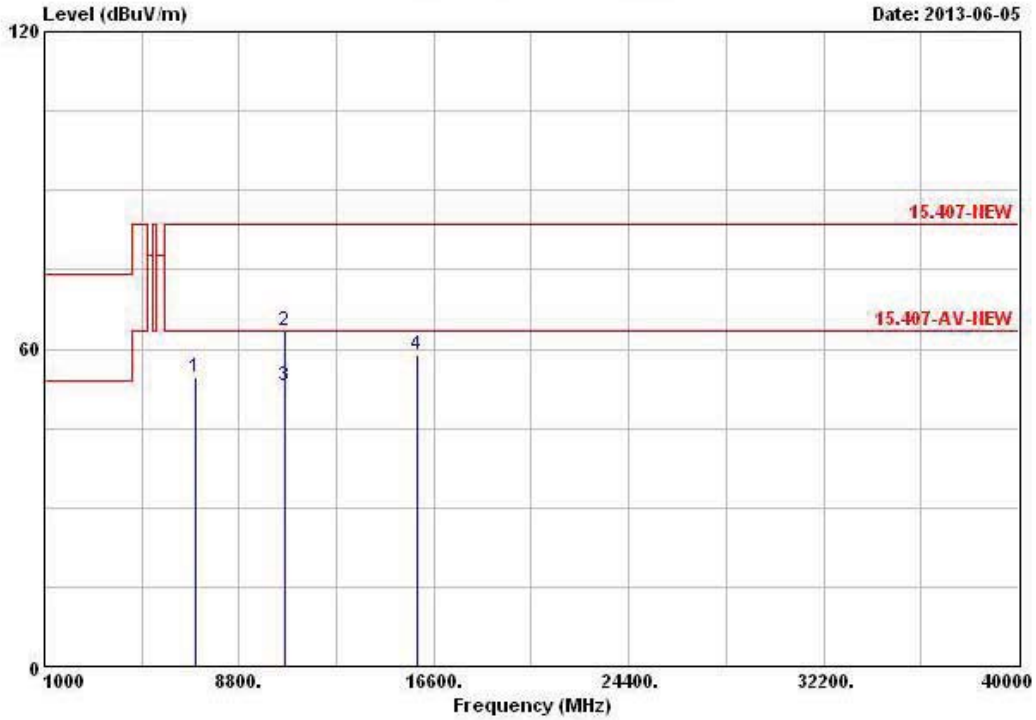
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5260
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7013.000	59.46	-4.08	63.54	51.21	36.64	4.39	32.78	PK	---	---
2	10520.000	65.80	-17.74	83.54	54.45	39.00	5.22	32.87	Peak	---	---
3	10520.000	53.89	-9.65	63.54	42.54	39.00	5.22	32.87	Average	---	---
4	15780.000	59.71	-3.83	63.54	46.39	38.21	7.66	32.55	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

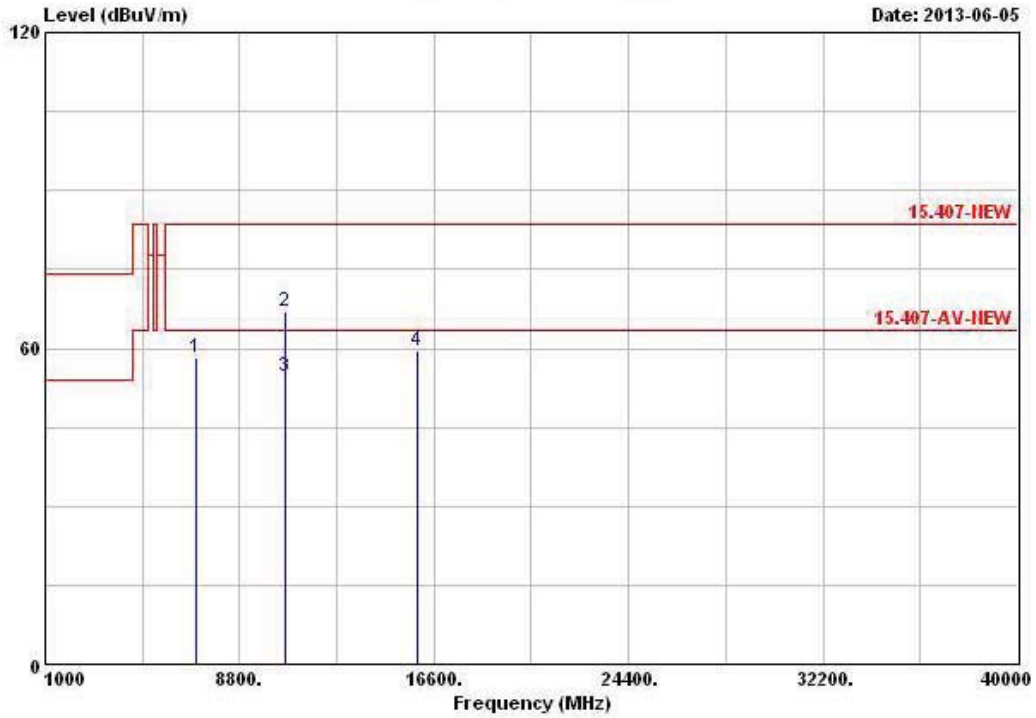
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5300
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	54.66	-8.88	63.54	46.33	36.77	4.35	32.79	PK	---	---
2	10600.000	63.42	-20.12	83.54	52.13	39.02	5.10	32.83	Peak	---	---
3	10600.000	52.96	-10.58	63.54	41.67	39.02	5.10	32.83	Average	---	---
4	15900.000	59.01	-4.53	63.54	45.56	38.26	7.77	32.58	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

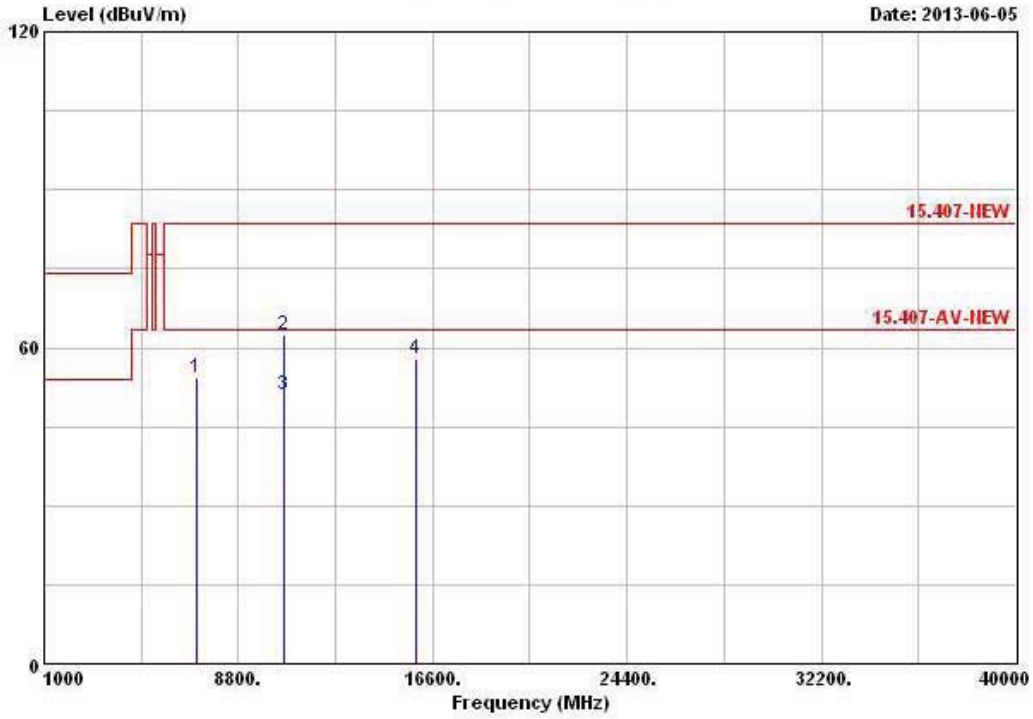
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5300
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	58.16	-5.38	63.54	49.83	36.77	4.35	32.79	PK	---	---
2	10600.000	67.02	-16.52	83.54	55.73	39.02	5.10	32.83	Peak	---	---
3	10600.000	54.66	-8.88	63.54	43.37	39.02	5.10	32.83	Average	---	---
4	15900.000	59.48	-4.06	63.54	46.03	38.26	7.77	32.58	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

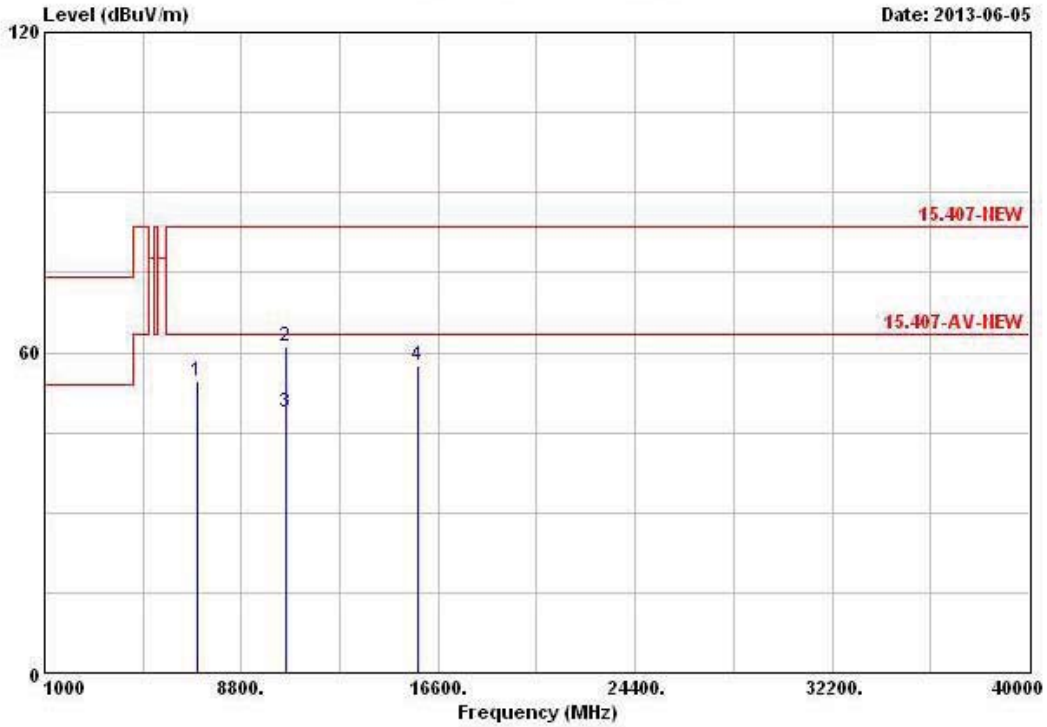
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5320
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7093.000	54.19	-9.35	63.54	45.83	36.81	4.35	32.80	PK	---	---
2	10640.000	62.55	-20.99	83.54	51.28	39.03	5.04	32.80	Peak	---	---
3	10640.000	51.01	-12.53	63.54	39.74	39.03	5.04	32.80	Average	---	---
4	15960.000	57.97	-5.57	63.54	44.44	38.29	7.85	32.61	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

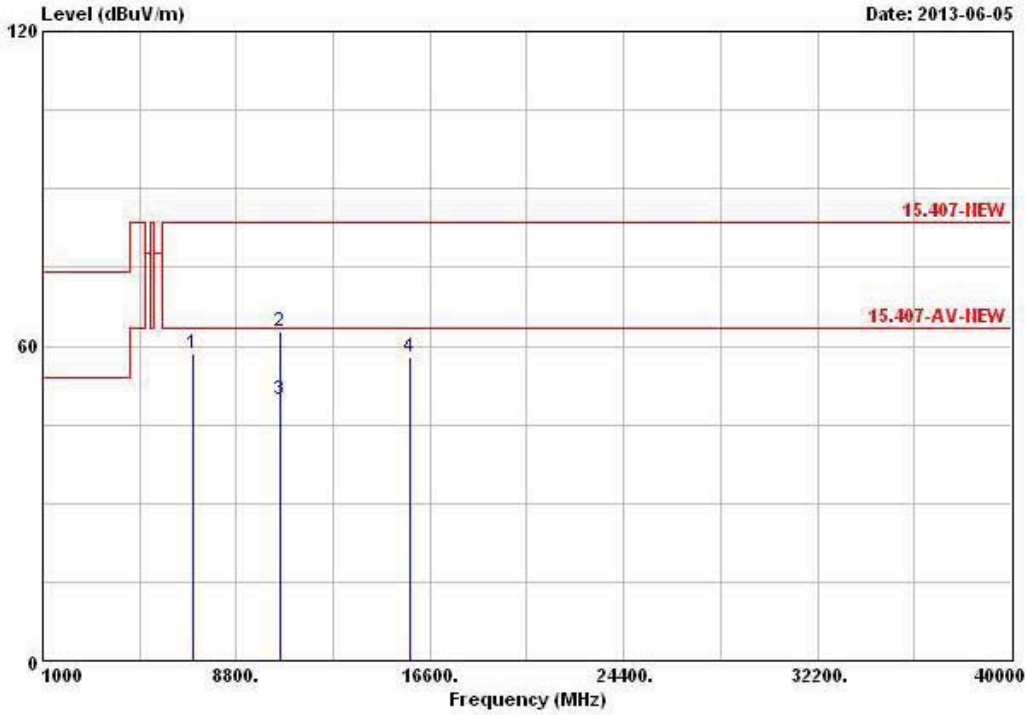
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5270
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7026.000	54.48	-9.06	63.54	46.25	36.64	4.37	32.78	PK	---	---
2	10540.000	61.29	-22.25	83.54	49.98	39.01	5.16	32.86	Peak	---	---
3	10540.000	48.63	-14.91	63.54	37.32	39.01	5.16	32.86	Average	---	---
4	15810.000	57.65	-5.89	63.54	44.29	38.22	7.70	32.56	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

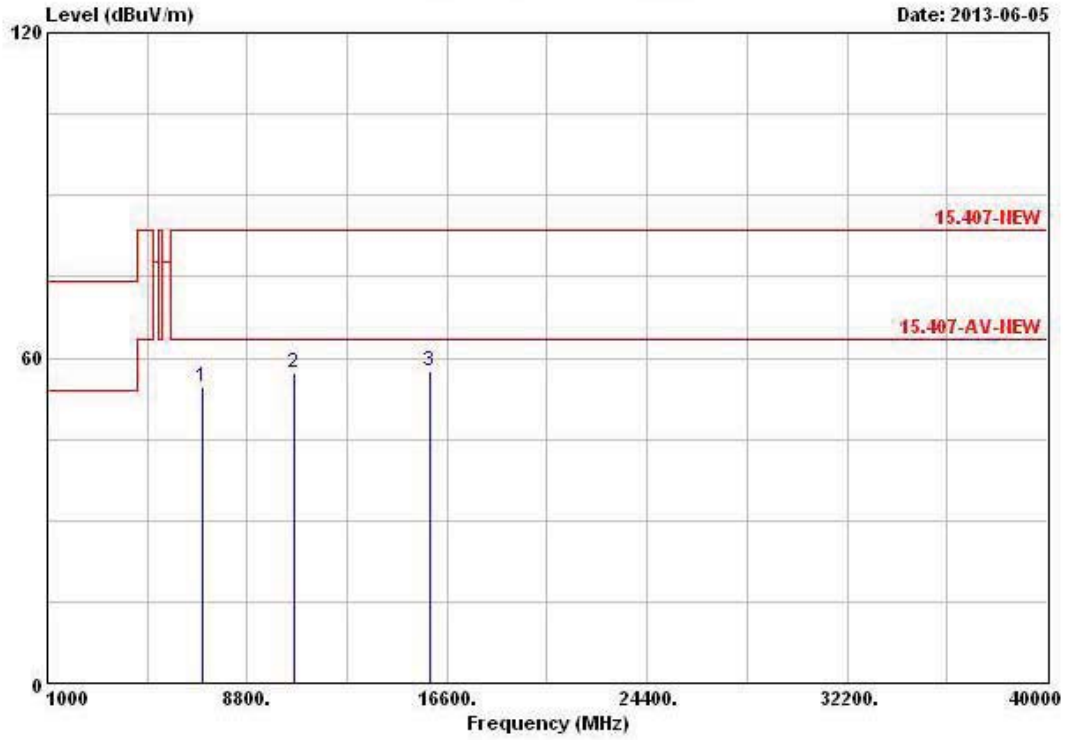
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5270
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7026.000	58.56	-4.98	63.54	50.33	36.64	4.37	32.78	PK	---	---
2	10540.000	62.64	-20.90	83.54	51.33	39.01	5.16	32.86	Peak	---	---
3	10540.000	49.81	-13.73	63.54	38.50	39.01	5.16	32.86	Average	---	---
4	15810.000	57.74	-5.80	63.54	44.38	38.22	7.70	32.56	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

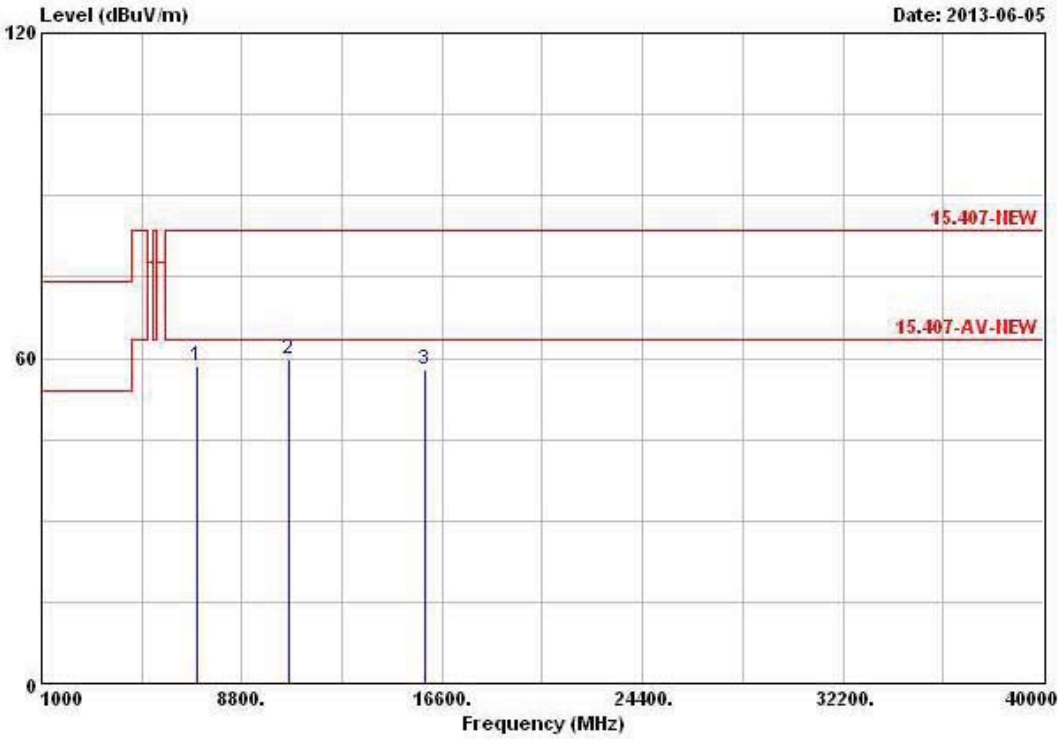
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5310
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7080.000	54.58	-8.96	63.54	46.21	36.81	4.35	32.79	PK	---	---
2	10620.000	57.09	-6.45	63.54	45.84	39.02	5.04	32.81	PK	---	---
3	15930.000	57.47	-6.07	63.54	43.98	38.27	7.81	32.59	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

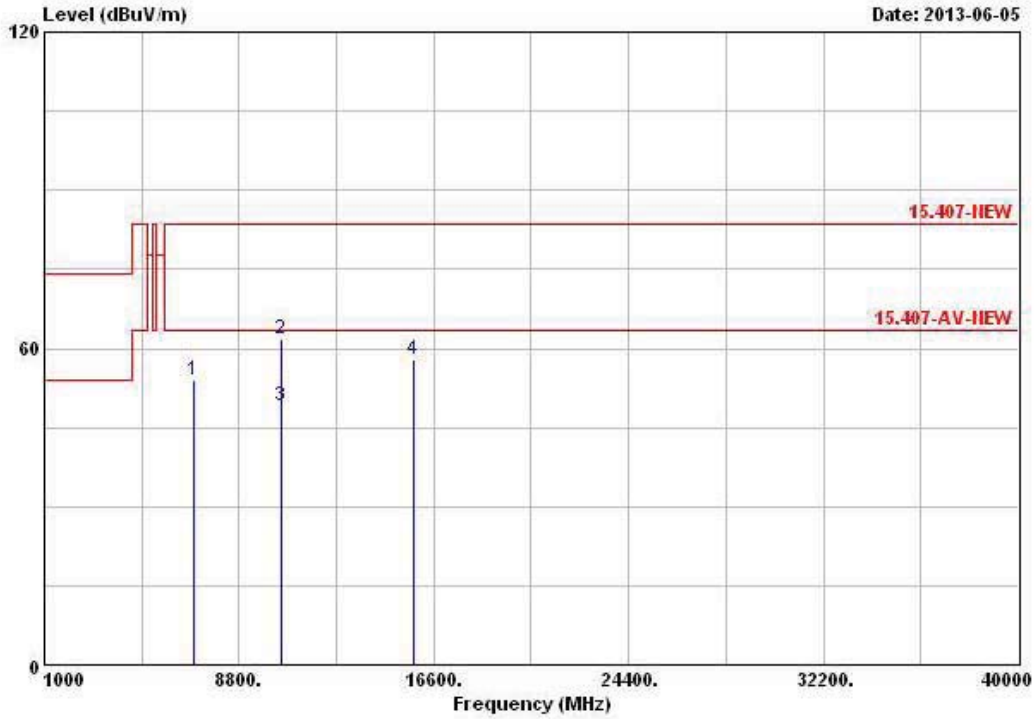
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5310
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7080.000	58.41	-5.13	63.54	50.04	36.81	4.35	32.79	PK	---	---
2	10620.000	59.71	-3.83	63.54	48.46	39.02	5.04	32.81	PK	---	---
3	15930.000	57.74	-5.80	63.54	44.25	38.27	7.81	32.59	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

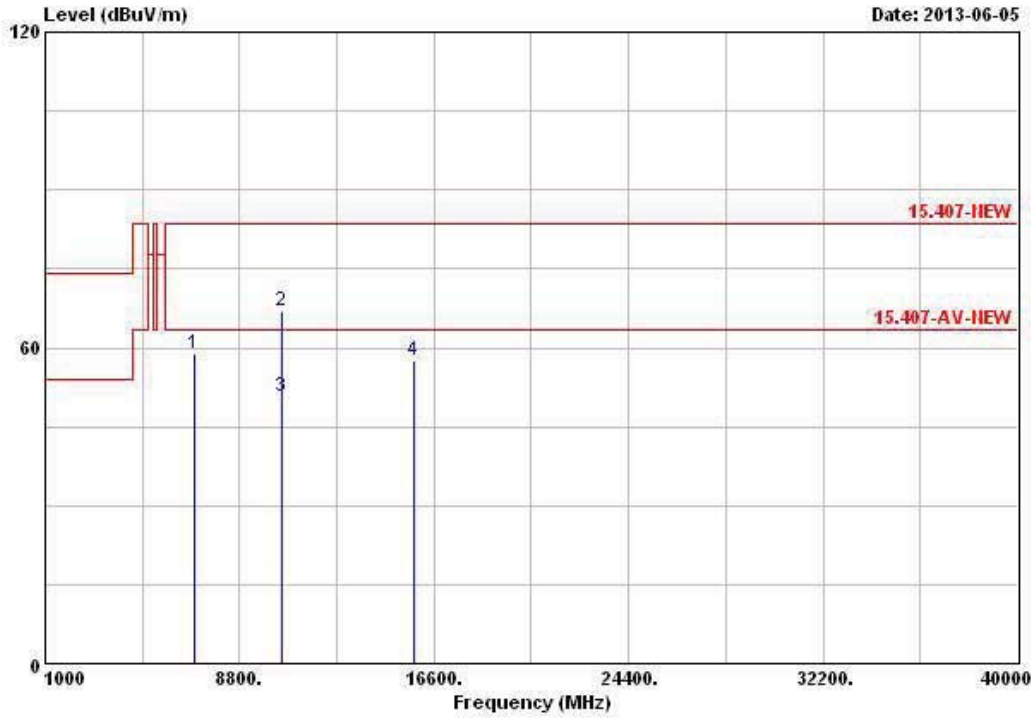
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5260
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6990.000	54.01	-9.53	63.54	45.83	36.56	4.39	32.77	PK	---	---
2	10520.000	61.90	-21.64	83.54	50.55	39.00	5.22	32.87	Peak	---	---
3	10520.000	49.14	-14.40	63.54	37.79	39.00	5.22	32.87	Average	---	---
4	15780.000	57.95	-5.59	63.54	44.63	38.21	7.66	32.55	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

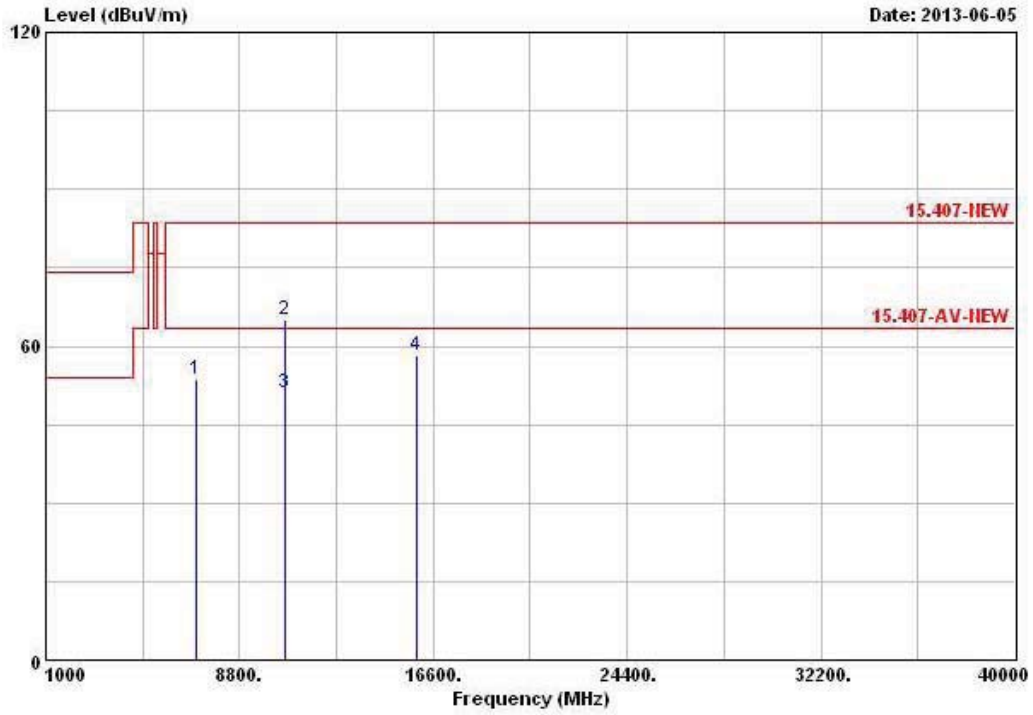
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5260
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7013.000	59.01	-4.53	63.54	50.76	36.64	4.39	32.78	PK	---	---
2	10520.000	66.87	-16.67	83.54	55.52	39.00	5.22	32.87	Peak	---	---
3	10520.000	50.87	-12.67	63.54	39.52	39.00	5.22	32.87	Average	---	---
4	15780.000	57.61	-5.93	63.54	44.29	38.21	7.66	32.55	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

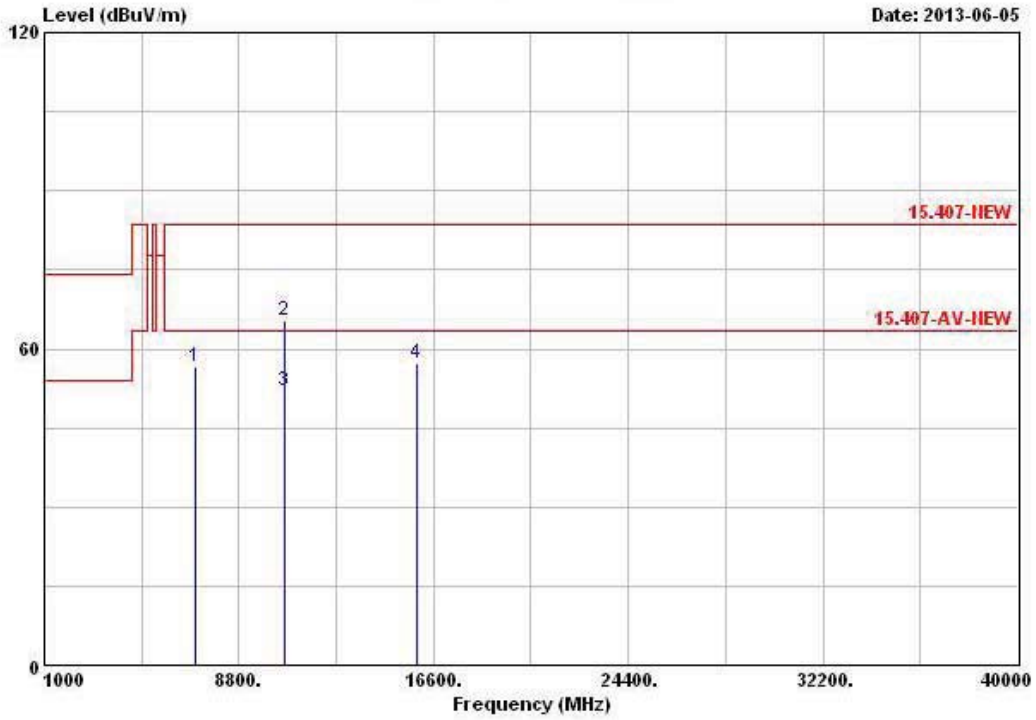
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5300
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	53.71	-9.83	63.54	45.38	36.77	4.35	32.79	PK	---	---
2	10600.000	65.06	-18.48	83.54	53.77	39.02	5.10	32.83	Peak	---	---
3	10600.000	50.97	-12.57	63.54	39.68	39.02	5.10	32.83	Average	---	---
4	15900.000	58.21	-5.33	63.54	44.76	38.26	7.77	32.58	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

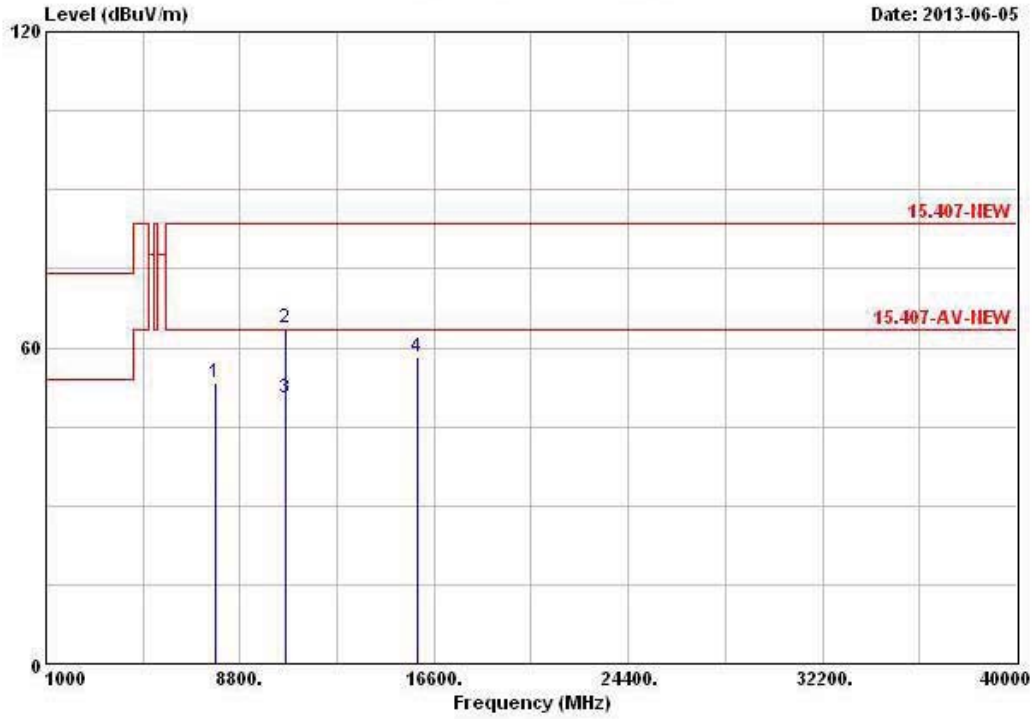
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5300
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	56.58	-6.96	63.54	48.25	36.77	4.35	32.79	PK	---	---
2	10600.000	65.21	-18.33	83.54	53.92	39.02	5.10	32.83	Peak	---	---
3	10600.000	51.91	-11.63	63.54	40.62	39.02	5.10	32.83	Average	---	---
4	15900.000	57.29	-6.25	63.54	43.84	38.26	7.77	32.58	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

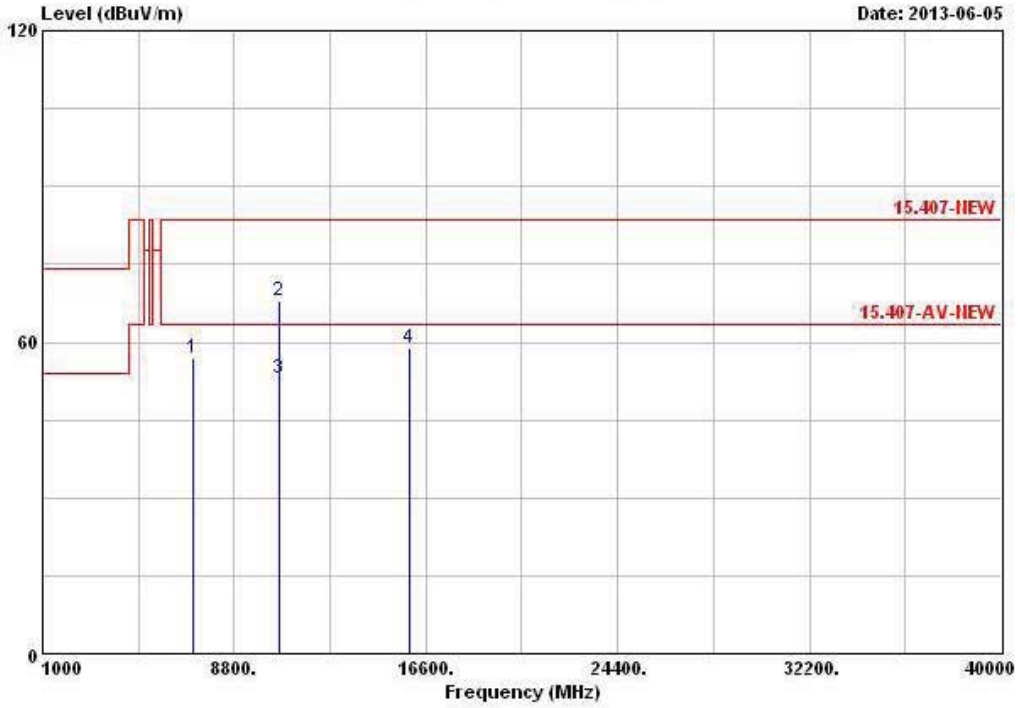
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5320
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7790.000	53.28	-10.26	63.54	44.62	37.74	3.89	32.97	PK	---	---
2	10640.000	63.71	-19.83	83.54	52.44	39.03	5.04	32.80	Peak	---	---
3	10640.000	50.32	-13.22	63.54	39.05	39.03	5.04	32.80	Average	---	---
4	15960.000	58.24	-5.30	63.54	44.71	38.29	7.85	32.61	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

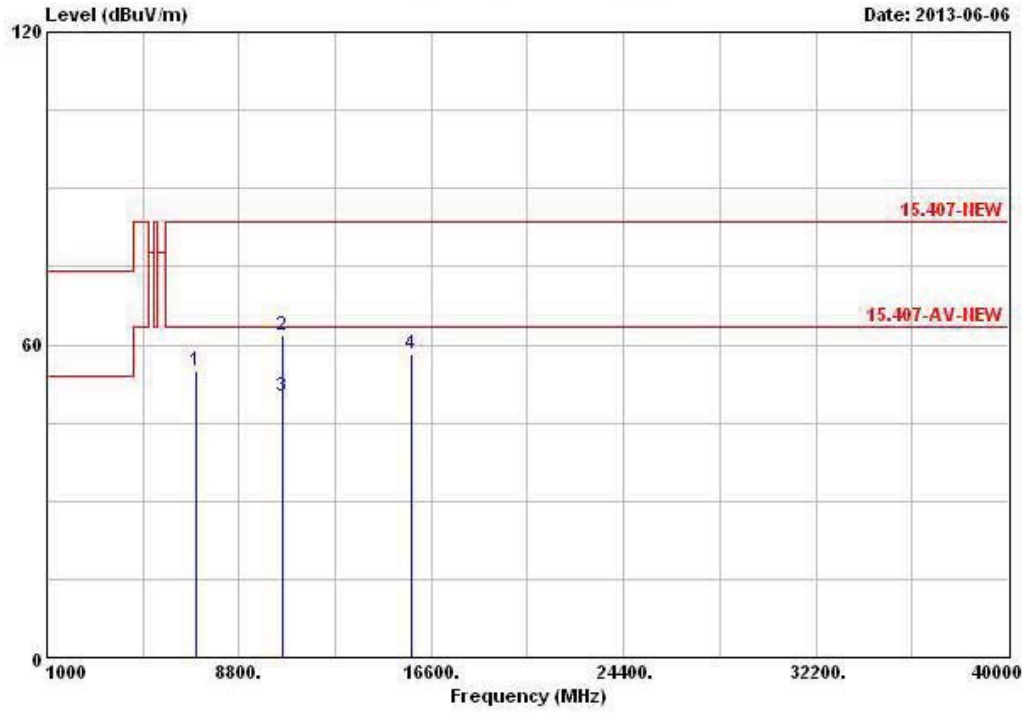
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5320
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7093.000	56.79	-6.75	63.54	48.43	36.81	4.35	32.80	PK	---	---
2	10640.000	67.88	-15.66	83.54	56.61	39.03	5.04	32.80	Peak	---	---
3	10640.000	52.86	-10.68	63.54	41.59	39.03	5.04	32.80	Average	---	---
4	15960.000	58.92	-4.62	63.54	45.39	38.29	7.85	32.61	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

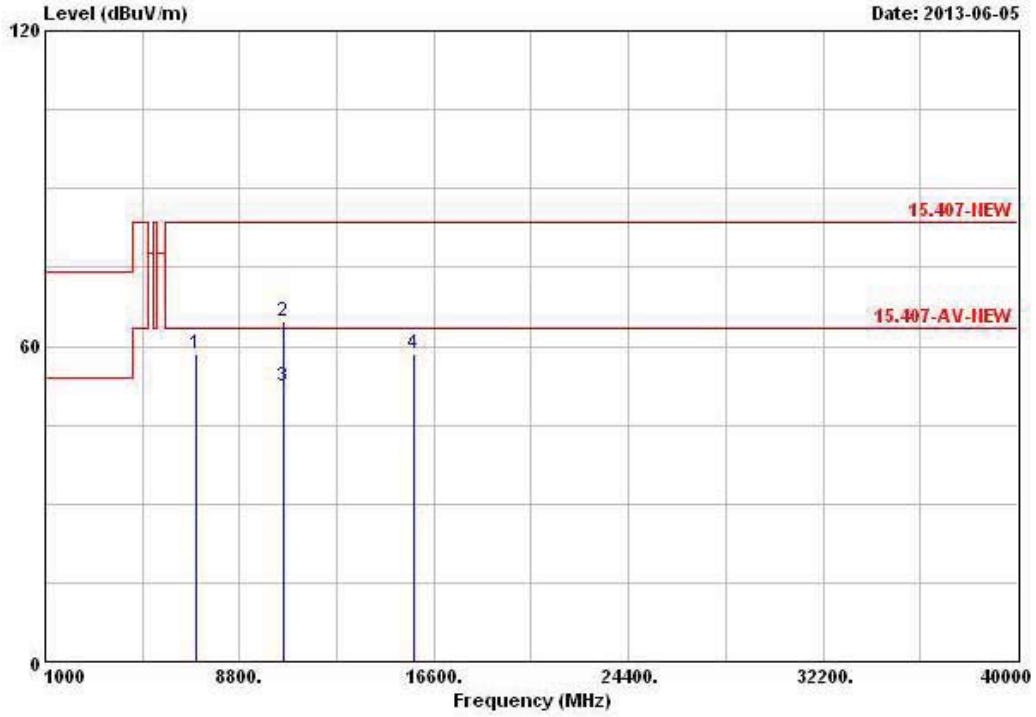
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5270
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7026.000	54.88	-8.66	63.54	46.65	36.64	4.37	32.78	PK	---	---
2	10540.000	61.91	-21.63	83.54	50.60	39.01	5.16	32.86	Peak	---	---
3	10540.000	50.18	-13.36	63.54	38.87	39.01	5.16	32.86	Average	---	---
4	15810.000	58.12	-5.42	63.54	44.76	38.22	7.70	32.56	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

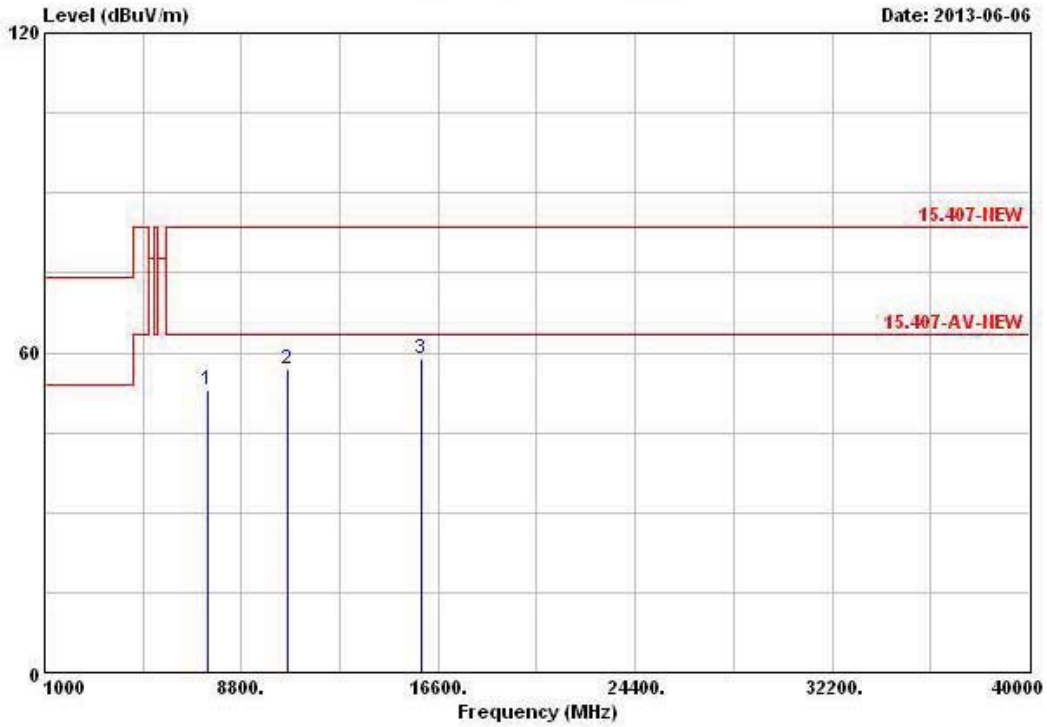
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5270
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7026.000	58.68	-4.86	63.54	50.45	36.64	4.37	32.78	PK	---	---
2	10540.000	64.62	-18.92	83.54	53.31	39.01	5.16	32.86	Peak	---	---
3	10540.000	52.26	-11.28	63.54	40.95	39.01	5.16	32.86	Average	---	---
4	15810.000	58.42	-5.12	63.54	45.06	38.22	7.70	32.56	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

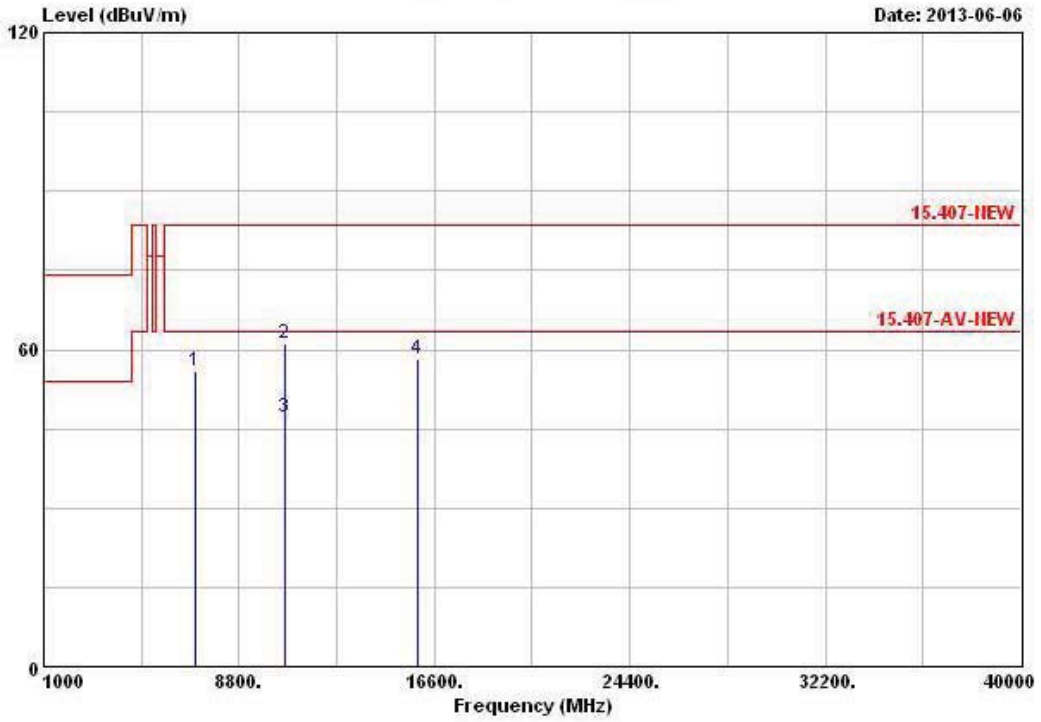
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5310
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7474.000	52.85	-10.69	63.54	43.85	37.76	4.15	32.91	PK	---	---
2	10620.000	57.04	-6.50	63.54	45.79	39.02	5.04	32.81	PK	---	---
3	15930.000	58.89	-4.65	63.54	45.40	38.27	7.81	32.59	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5310
N_{TX}	3	**Polarization**	H

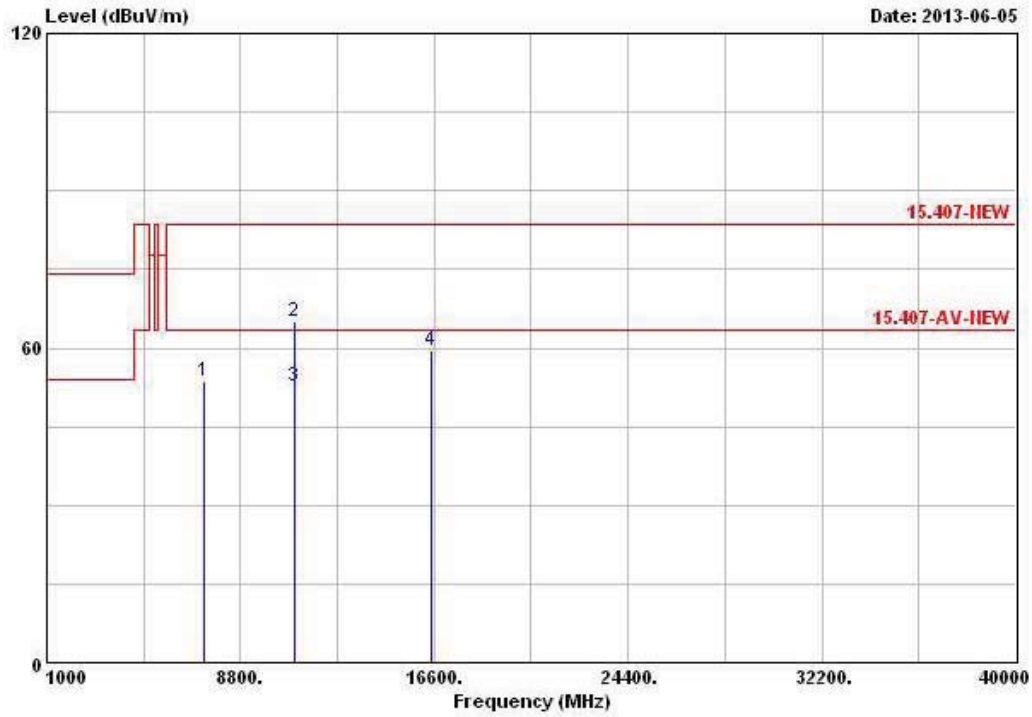


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7080.000	55.88	-7.66	63.54	47.51	36.81	4.35	32.79	PK	---	---
2	10620.000	61.26	-22.28	83.54	50.01	39.02	5.04	32.81	Peak	---	---
3	10620.000	47.24	-16.30	63.54	35.99	39.02	5.04	32.81	Average	---	---
4	15930.000	58.18	-5.36	63.54	44.69	38.27	7.81	32.59	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.7.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5470-5725MHz

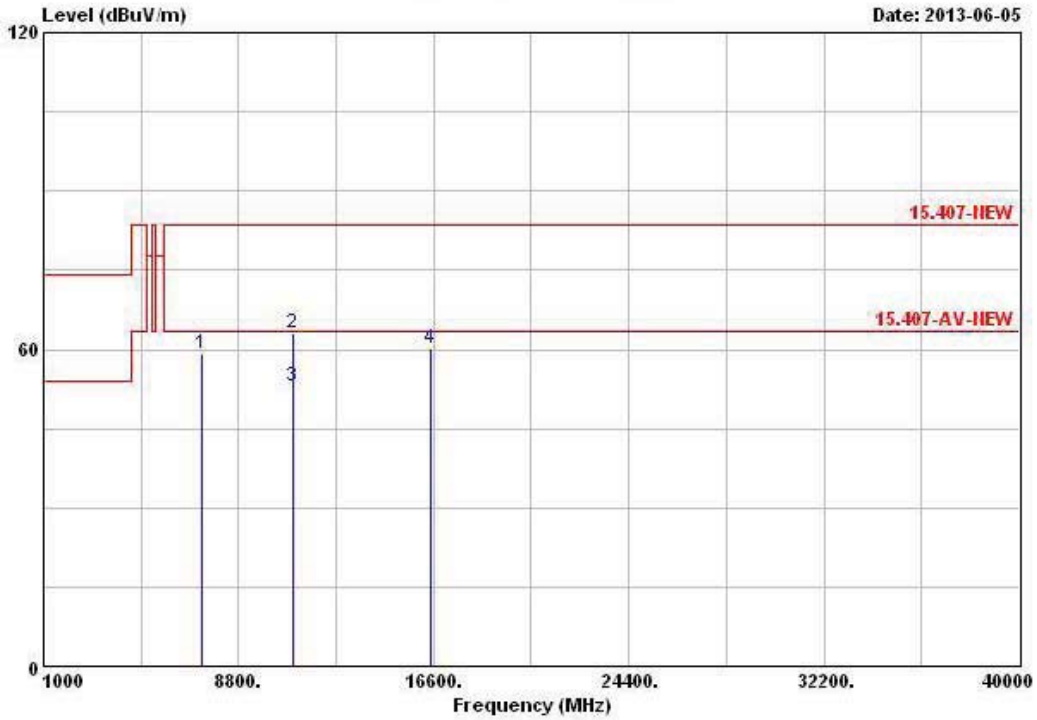
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5500
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7333.000	53.71	-9.83	63.54	44.92	37.43	4.23	32.87	PK	---	---
2	11000.000	64.90	-18.64	83.54	53.89	39.10	4.51	32.60	Peak	---	---
3	11000.000	52.71	-10.83	63.54	41.70	39.10	4.51	32.60	Average	---	---
4	16500.000	59.64	-3.90	63.54	44.05	39.80	8.01	32.22	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

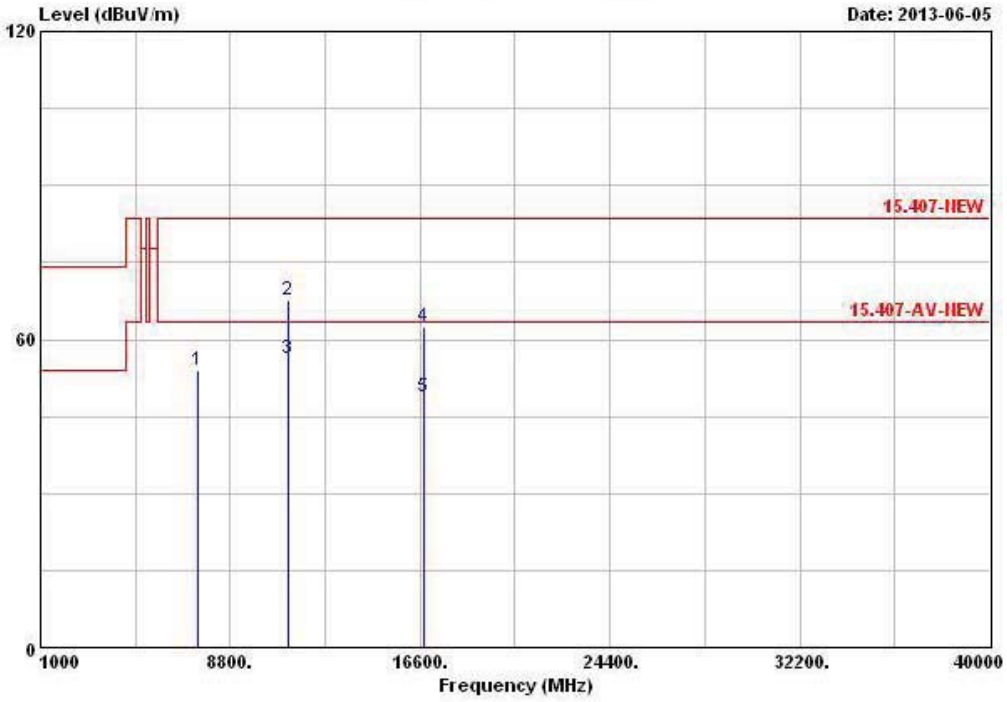
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5500
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7333.000	59.18	-4.36	63.54	50.39	37.43	4.23	32.87	PK	---	---
2	11000.000	63.24	-20.30	83.54	52.23	39.10	4.51	32.60	Peak	---	---
3	11000.000	52.97	-10.57	63.54	41.96	39.10	4.51	32.60	Average	---	---
4	16500.000	60.31	-3.23	63.54	44.72	39.80	8.01	32.22	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

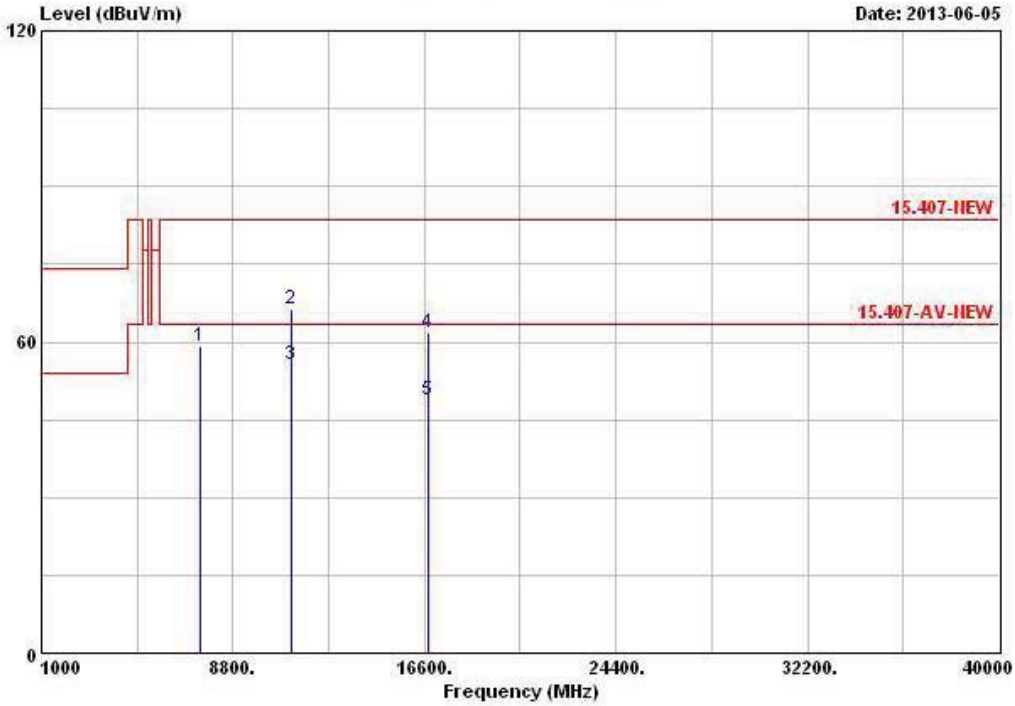
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	@ 7440.000	53.91	-9.63	63.54	44.96	37.68	4.17	32.90	PK	---	---
2	11160.000	67.49	-16.05	83.54	56.15	39.37	4.56	32.59	Peak	---	---
3	@11160.000	56.39	-7.15	63.54	45.05	39.37	4.56	32.59	Average	---	---
4	16740.000	62.33	-21.21	83.54	44.87	41.20	8.18	31.92	Peak	---	---
5	16740.000	48.83	-14.71	63.54	31.37	41.20	8.18	31.92	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

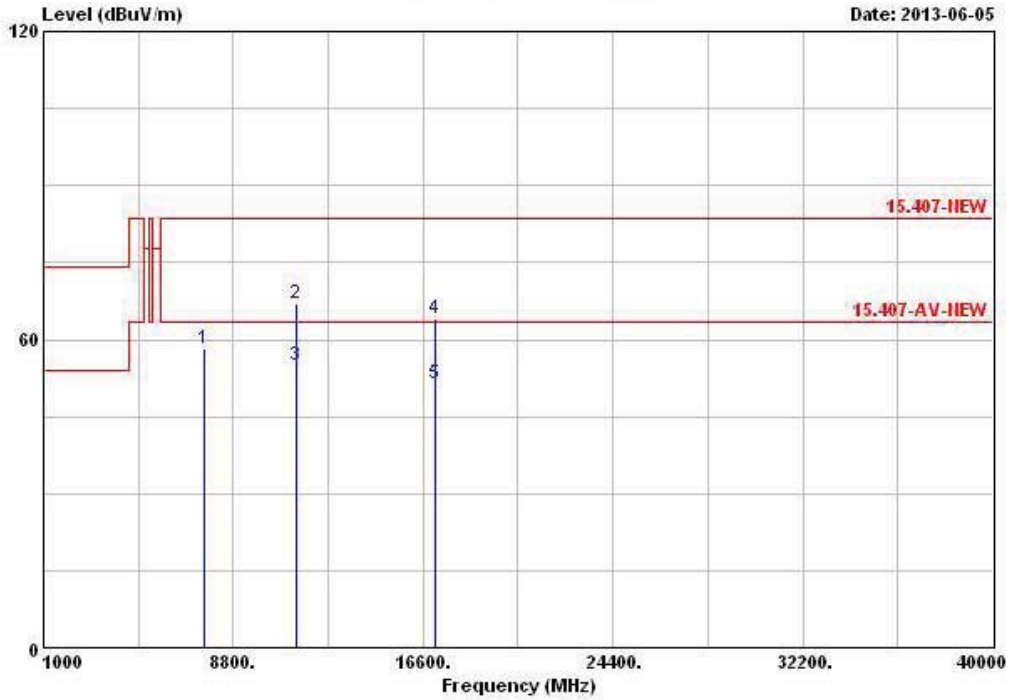
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7440.000	59.17	-4.37	63.54	50.22	37.68	4.17	32.90	PK	---	---
2	11160.000	66.41	-17.13	83.54	55.07	39.37	4.56	32.59	Peak	---	---
3	11160.000	55.62	-7.92	63.54	44.28	39.37	4.56	32.59	Average	---	---
4	16740.000	61.90	-21.64	83.54	44.44	41.20	8.18	31.92	Peak	---	---
5	16740.000	48.91	-14.63	63.54	31.45	41.20	8.18	31.92	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

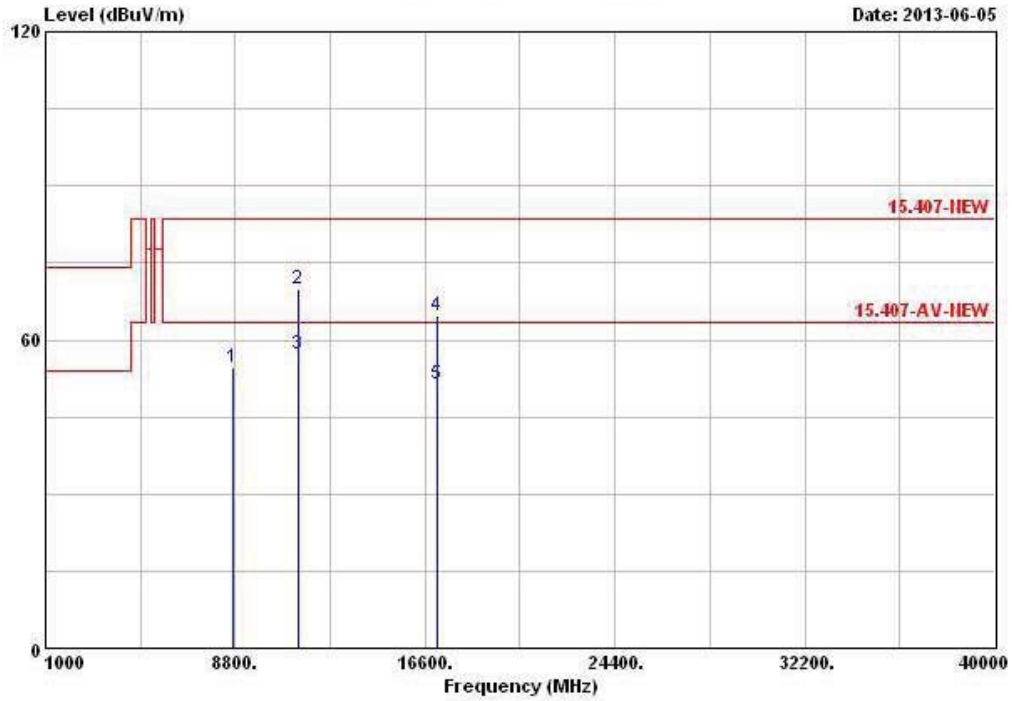
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5700
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 @	7600.000	58.05	-5.49	63.54	49.15	37.78	4.06	32.94	PK	---	---
2	11400.000	66.98	-16.56	83.54	55.21	39.74	4.61	32.58	Peak	---	---
3	11400.000	55.09	-8.45	63.54	43.32	39.74	4.61	32.58	Average	---	---
4	17100.000	64.22	-19.32	83.54	43.96	43.32	8.55	31.61	Peak	---	---
5	17100.000	51.46	-12.08	63.54	31.20	43.32	8.55	31.61	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

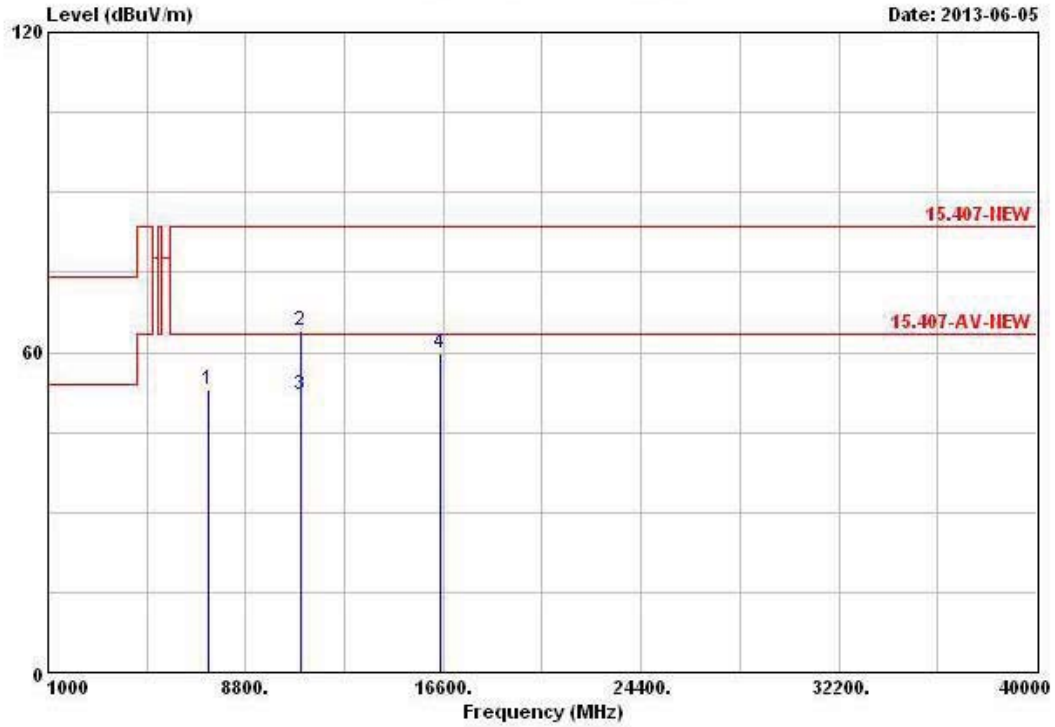
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5700
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8738.000	54.65	-8.89	63.54	44.74	38.43	4.58	33.10	PK	---	---
2	11400.000	69.97	-13.57	83.54	58.20	39.74	4.61	32.58	Peak	---	---
3	11400.000	57.10	-6.44	63.54	45.33	39.74	4.61	32.58	Average	---	---
4	17100.000	64.56	-18.98	83.54	44.30	43.32	8.55	31.61	Peak	---	---
5	17100.000	51.49	-12.05	63.54	31.23	43.32	8.55	31.61	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

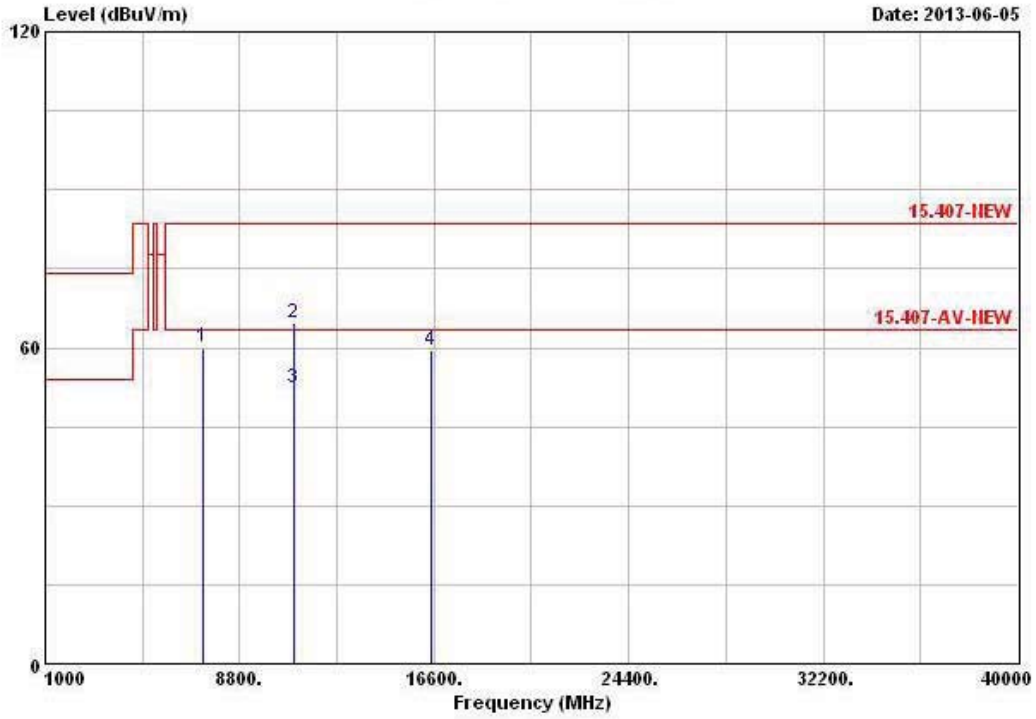
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5500
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7333.000	53.00	-10.54	63.54	44.21	37.43	4.23	32.87	PK	---	---
2	11000.000	64.07	-19.47	83.54	53.06	39.10	4.51	32.60	Peak	---	---
3	11000.000	52.19	-11.35	63.54	41.18	39.10	4.51	32.60	Average	---	---
4	16500.000	59.79	-3.75	63.54	44.20	39.80	8.01	32.22	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

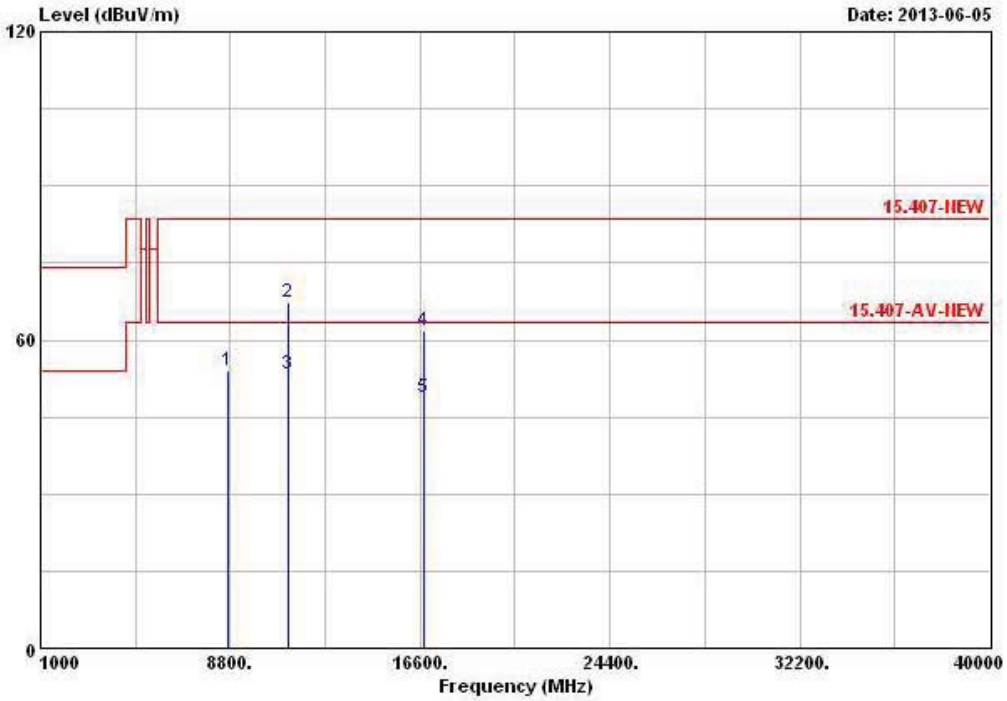
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5500
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7333.000	60.00	-3.54	63.54	51.21	37.43	4.23	32.87	PK	---	---
2	11000.000	64.61	-18.93	83.54	53.60	39.10	4.51	32.60	Peak	---	---
3	11000.000	52.45	-11.09	63.54	41.44	39.10	4.51	32.60	Average	---	---
4	16500.000	59.38	-4.16	63.54	43.79	39.80	8.01	32.22	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

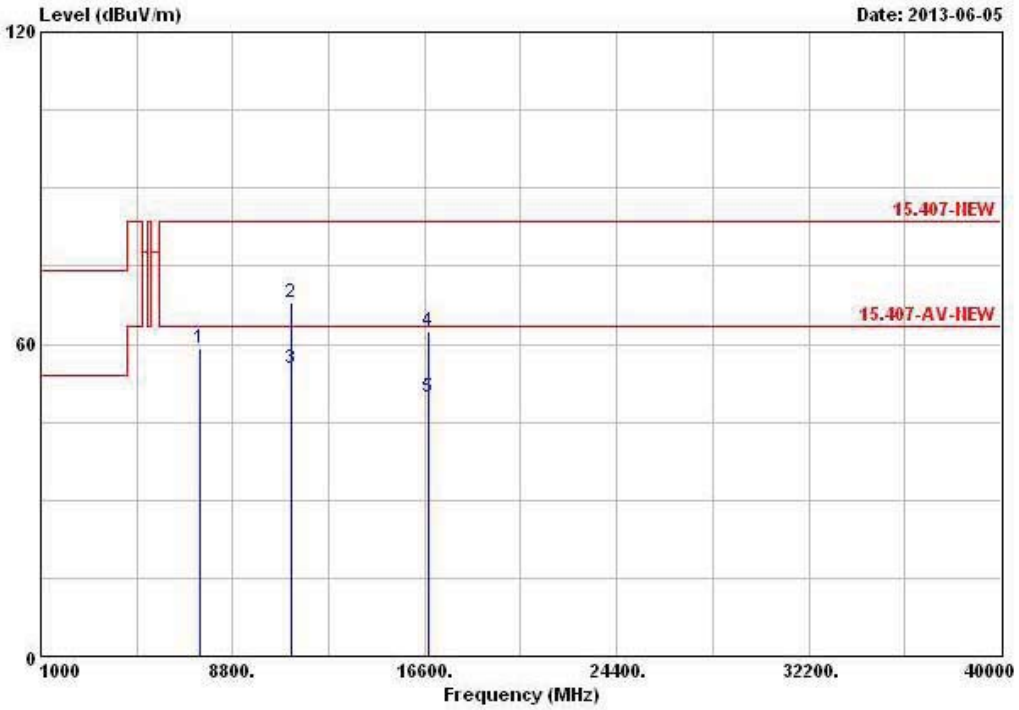
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8710.000	54.05	-9.49	63.54	44.14	38.42	4.58	33.09	PK	---	---
2	11160.000	67.27	-16.27	83.54	55.93	39.37	4.56	32.59	Peak	---	---
3	11160.000	53.45	-10.09	63.54	42.11	39.37	4.56	32.59	Average	---	---
4	16740.000	61.89	-21.65	83.54	44.43	41.20	8.18	31.92	Peak	---	---
5	16740.000	48.69	-14.85	63.54	31.23	41.20	8.18	31.92	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

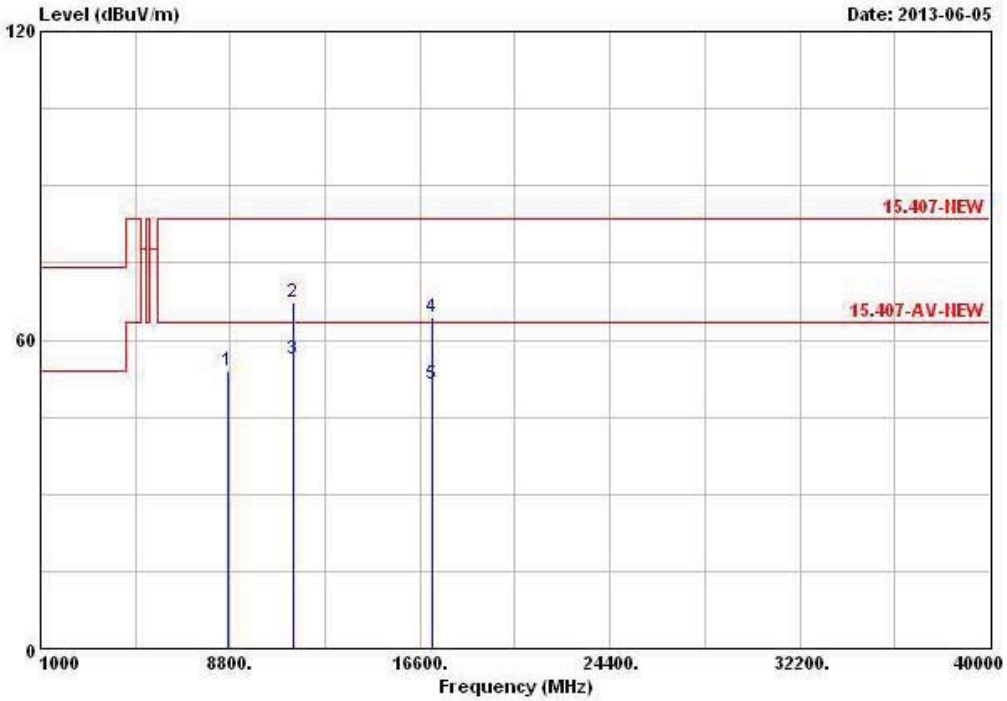
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7440.000	59.05	-4.49	63.54	50.10	37.68	4.17	32.90	PK	---	---
2	11160.000	68.10	-15.44	83.54	56.76	39.37	4.56	32.59	Peak	---	---
3	11160.000	55.26	-8.28	63.54	43.92	39.37	4.56	32.59	Average	---	---
4	16740.000	62.56	-20.98	83.54	45.10	41.20	8.18	31.92	Peak	---	---
5	16740.000	49.71	-13.83	63.54	32.25	41.20	8.18	31.92	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

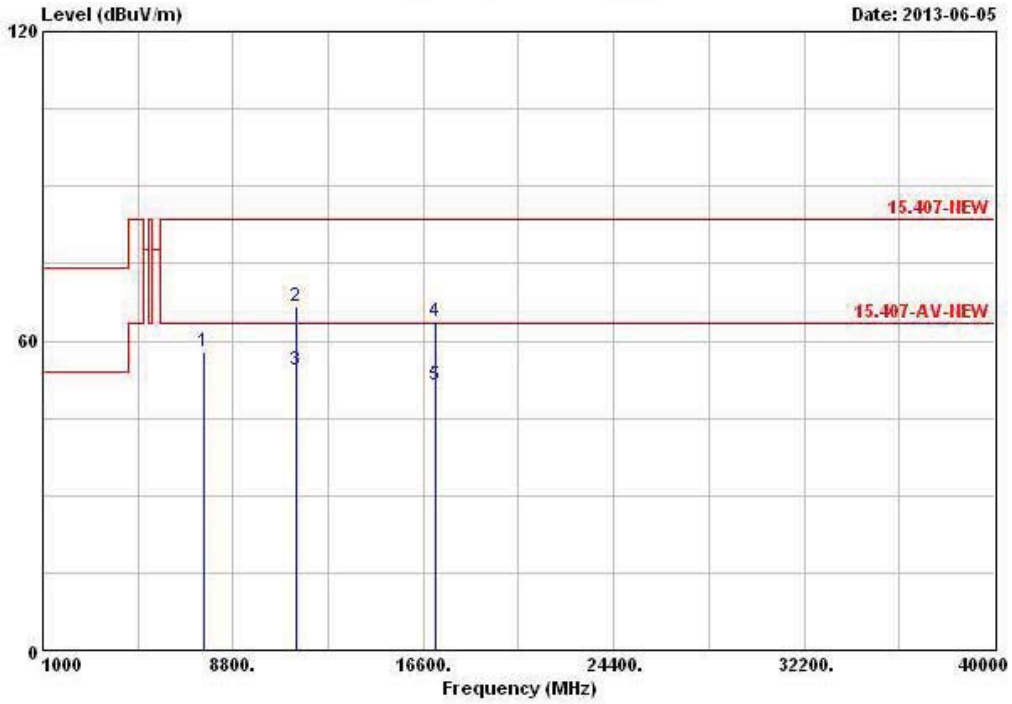
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5700
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8705.000	53.84	-9.70	63.54	43.95	38.40	4.58	33.09	PK	---	---
2	11400.000	67.37	-16.17	83.54	55.60	39.74	4.61	32.58	Peak	---	---
3	11400.000	56.34	-7.20	63.54	44.57	39.74	4.61	32.58	Average	---	---
4	17100.000	64.29	-19.25	83.54	44.03	43.32	8.55	31.61	Peak	---	---
5	17100.000	51.47	-12.07	63.54	31.21	43.32	8.55	31.61	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

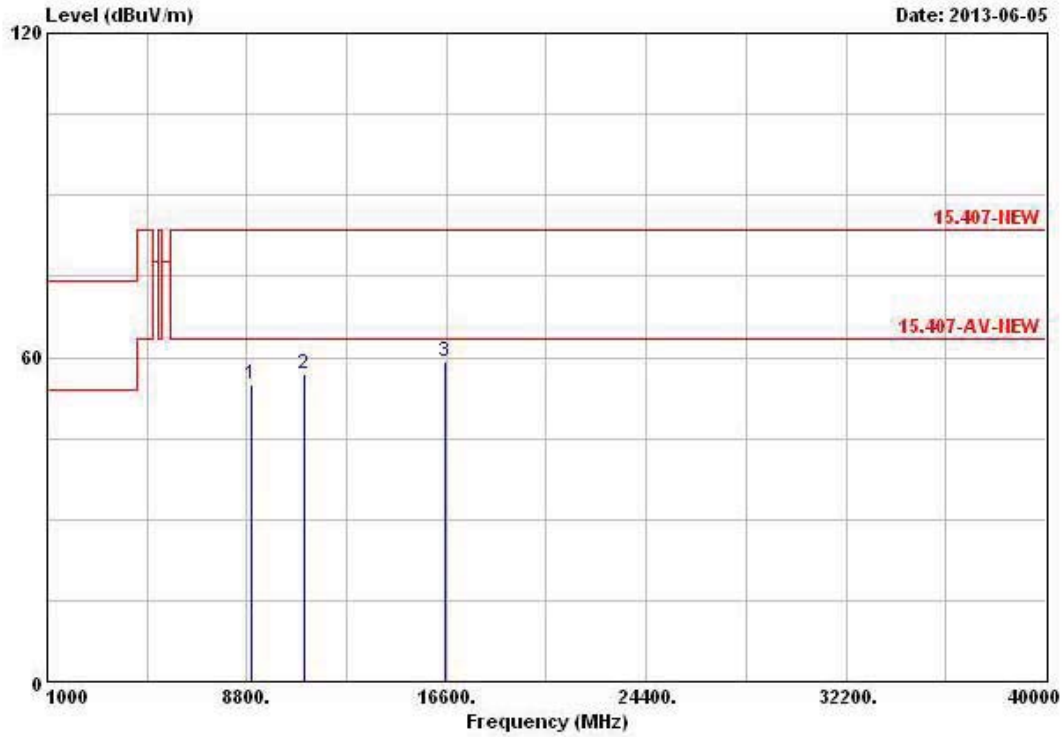
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5700
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7600.000	57.99	-5.55	63.54	49.09	37.78	4.06	32.94	PK	---	---
2	11400.000	66.74	-16.80	83.54	54.97	39.74	4.61	32.58	Peak	---	---
3	11400.000	54.32	-9.22	63.54	42.55	39.74	4.61	32.58	Average	---	---
4	17100.000	63.81	-19.73	83.54	43.55	43.32	8.55	31.61	Peak	---	---
5	17100.000	51.41	-12.13	63.54	31.15	43.32	8.55	31.61	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

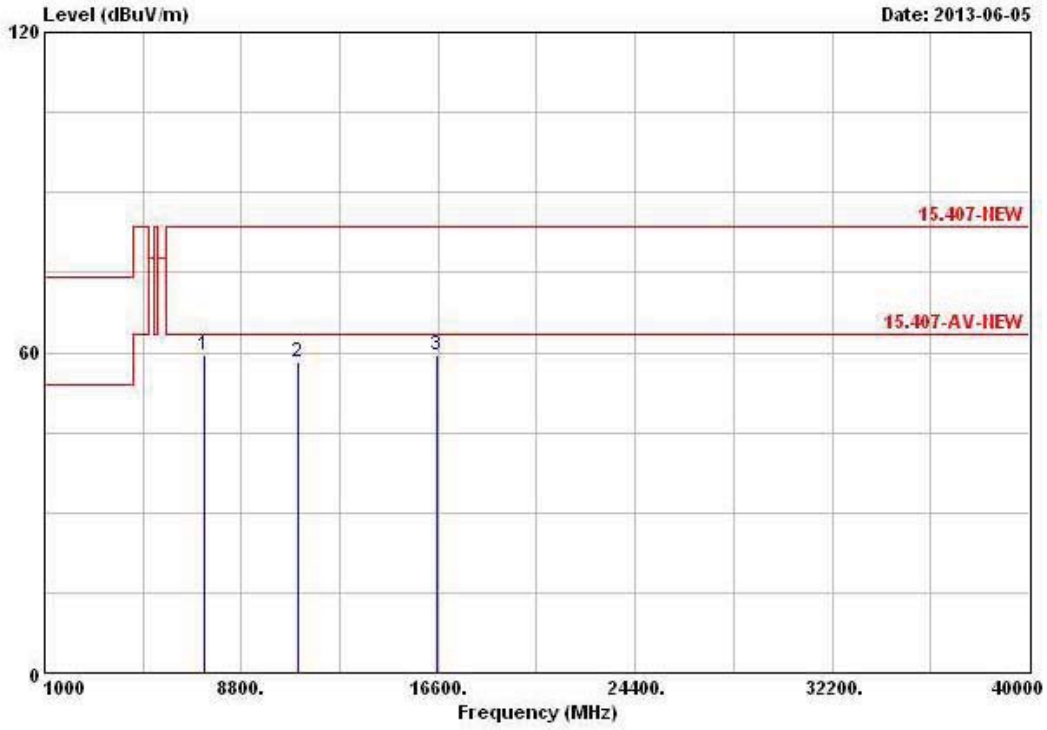
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5510
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8981.000	54.83	-8.71	63.54	44.11	38.67	5.23	33.18	PK	---	---
2	11020.000	56.84	-6.70	63.54	45.79	39.13	4.52	32.60	PK	---	---
3	16530.000	59.31	-4.23	63.54	43.46	40.00	8.04	32.19	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

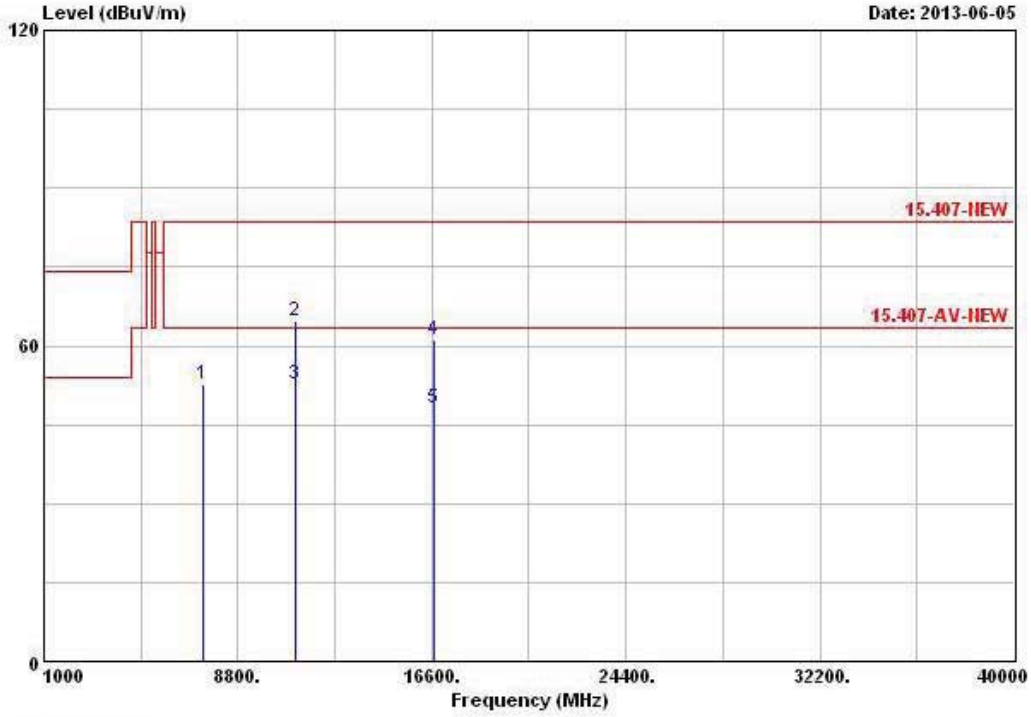
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5510
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7346.000	59.59	-3.95	63.54	50.83	37.43	4.21	32.88	PK	---	---
2	11020.000	58.06	-5.48	63.54	47.01	39.13	4.52	32.60	PK	---	---
3	16530.000	59.63	-3.91	63.54	43.78	40.00	8.04	32.19	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

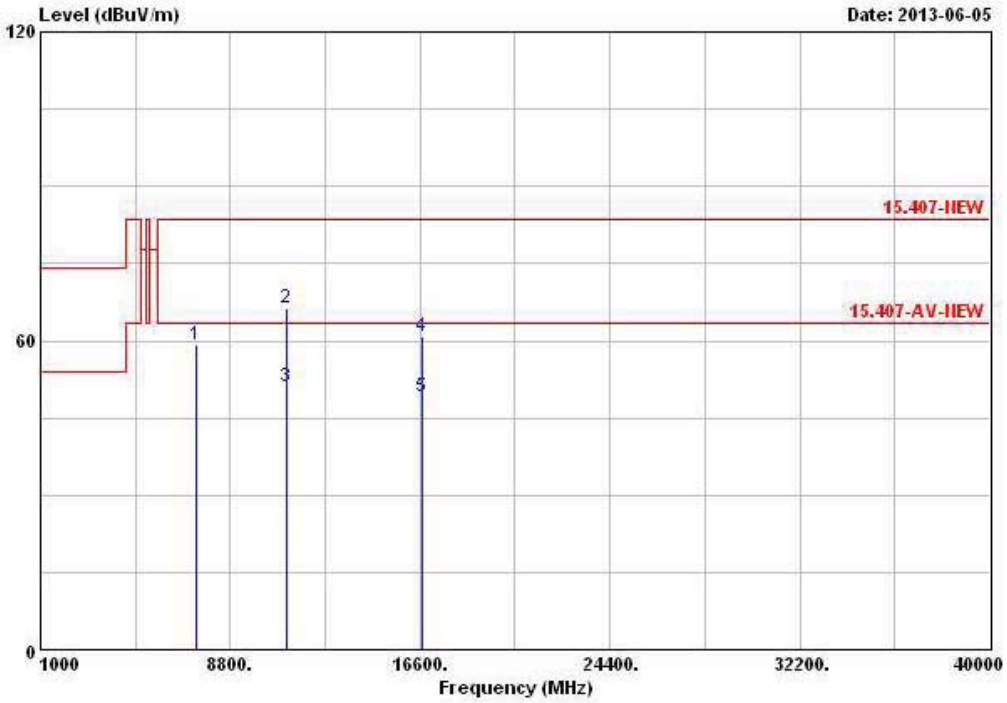
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7390.000	52.83	-10.71	63.54	43.98	37.55	4.19	32.89	PK	---	---
2	11100.000	64.81	-18.73	83.54	53.60	39.26	4.54	32.59	Peak	---	---
3	11100.000	52.82	-10.72	63.54	41.61	39.26	4.54	32.59	Average	---	---
4	16650.000	61.05	-22.49	83.54	44.26	40.70	8.11	32.02	Peak	---	---
5	16650.000	47.98	-15.56	63.54	31.19	40.70	8.11	32.02	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

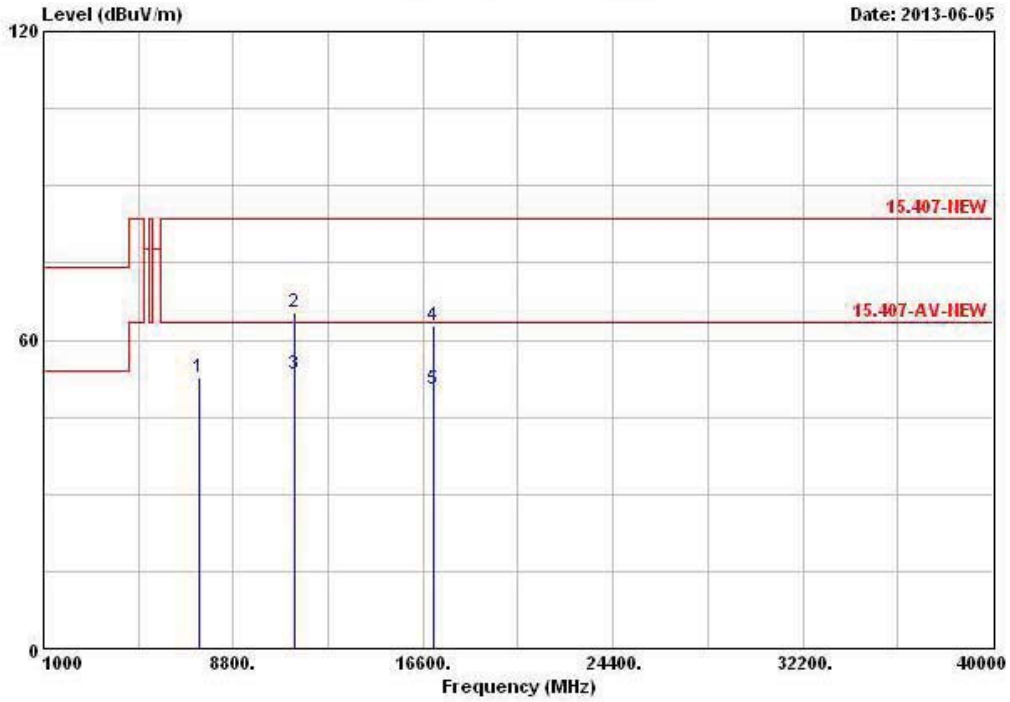
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7400.000	59.20	-4.34	63.54	50.35	37.55	4.19	32.89	PK	---	---
2	11100.000	66.22	-17.32	83.54	55.01	39.26	4.54	32.59	Peak	---	---
3	11100.000	51.02	-12.52	63.54	39.81	39.26	4.54	32.59	Average	---	---
4	16650.000	60.97	-22.57	83.54	44.18	40.70	8.11	32.02	Peak	---	---
5	16650.000	49.08	-14.46	63.54	32.29	40.70	8.11	32.02	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

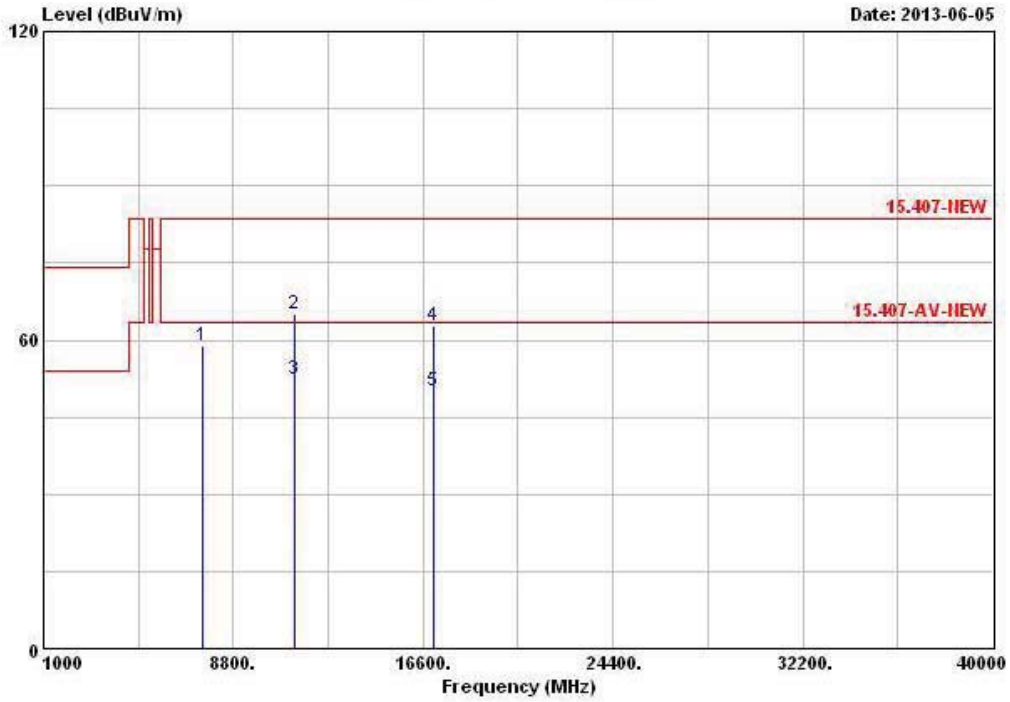
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5670
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7428.000	52.82	-10.72	63.54	43.92	37.63	4.17	32.90	PK	---	---
2	11340.000	65.46	-18.08	83.54	53.82	39.63	4.59	32.58	Peak	---	---
3	11340.000	53.45	-10.09	63.54	41.81	39.63	4.59	32.58	Average	---	---
4	17010.000	62.85	-20.69	83.54	43.24	42.80	8.40	31.59	Peak	---	---
5	17010.000	50.31	-13.23	63.54	30.70	42.80	8.40	31.59	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

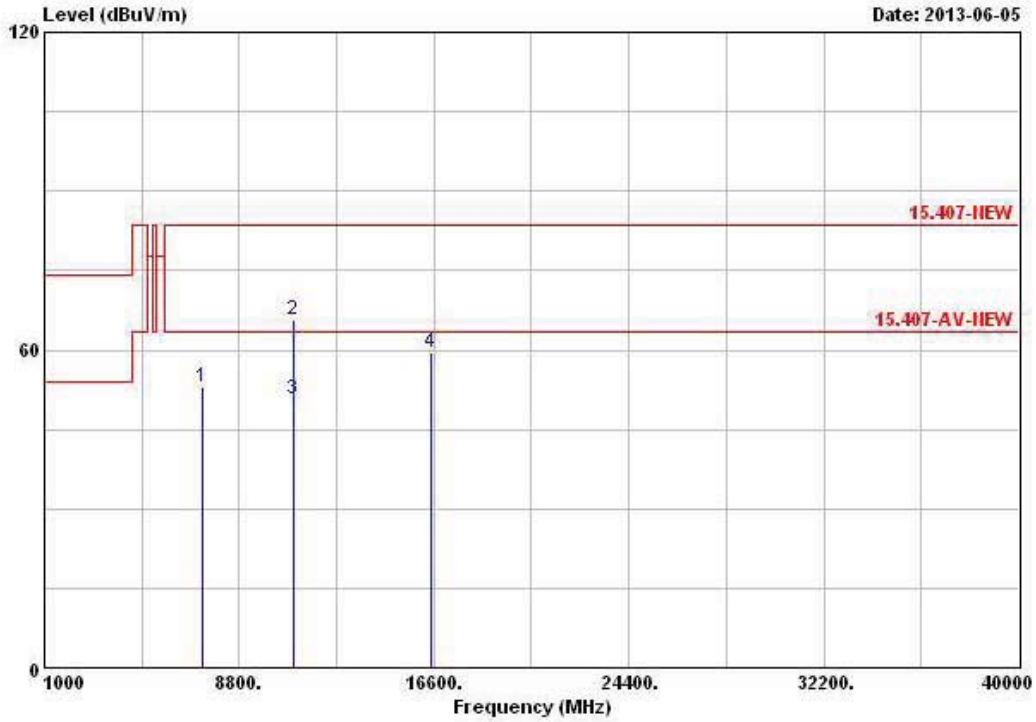
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5670
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	58.73	-4.81	63.54	49.78	37.79	4.09	32.93	PK	---	---
2	11340.000	65.19	-18.35	83.54	53.55	39.63	4.59	32.58	Peak	---	---
3	11340.000	52.23	-11.31	63.54	40.59	39.63	4.59	32.58	Average	---	---
4	17010.000	62.77	-20.77	83.54	43.16	42.80	8.40	31.59	Peak	---	---
5	17010.000	50.22	-13.32	63.54	30.61	42.80	8.40	31.59	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

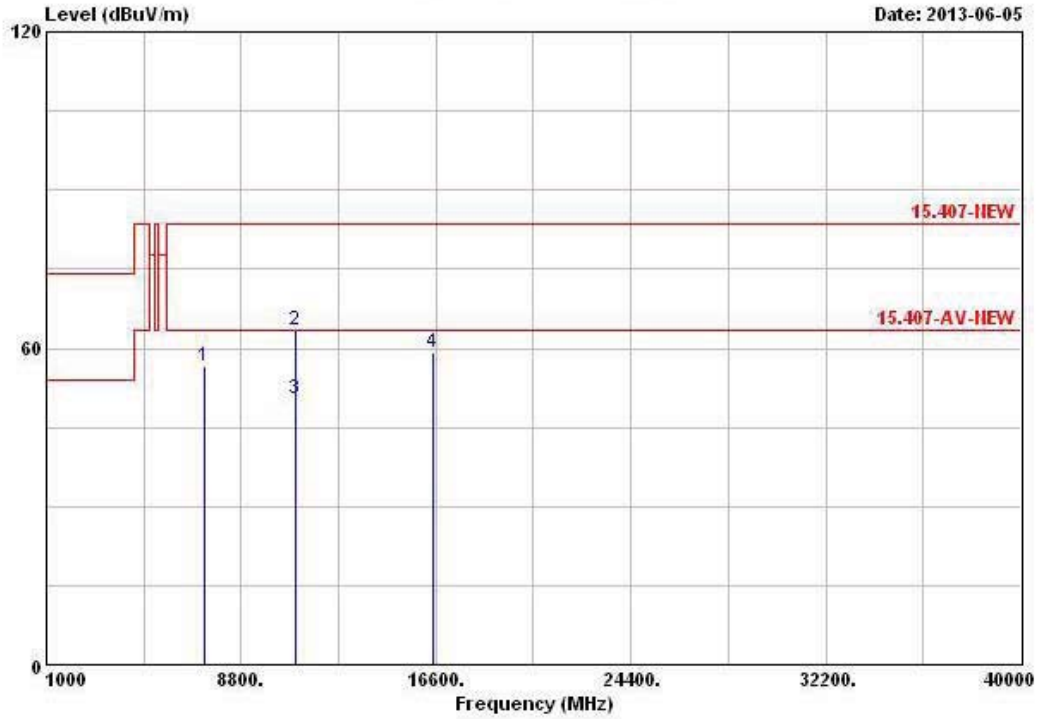
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5500
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7333.000	53.04	-10.50	63.54	44.25	37.43	4.23	32.87	PK	---	---
2	11000.000	65.62	-17.92	83.54	54.61	39.10	4.51	32.60	Peak	---	---
3	11000.000	50.80	-12.74	63.54	39.79	39.10	4.51	32.60	Average	---	---
4	16500.000	59.47	-4.07	63.54	43.88	39.80	8.01	32.22	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

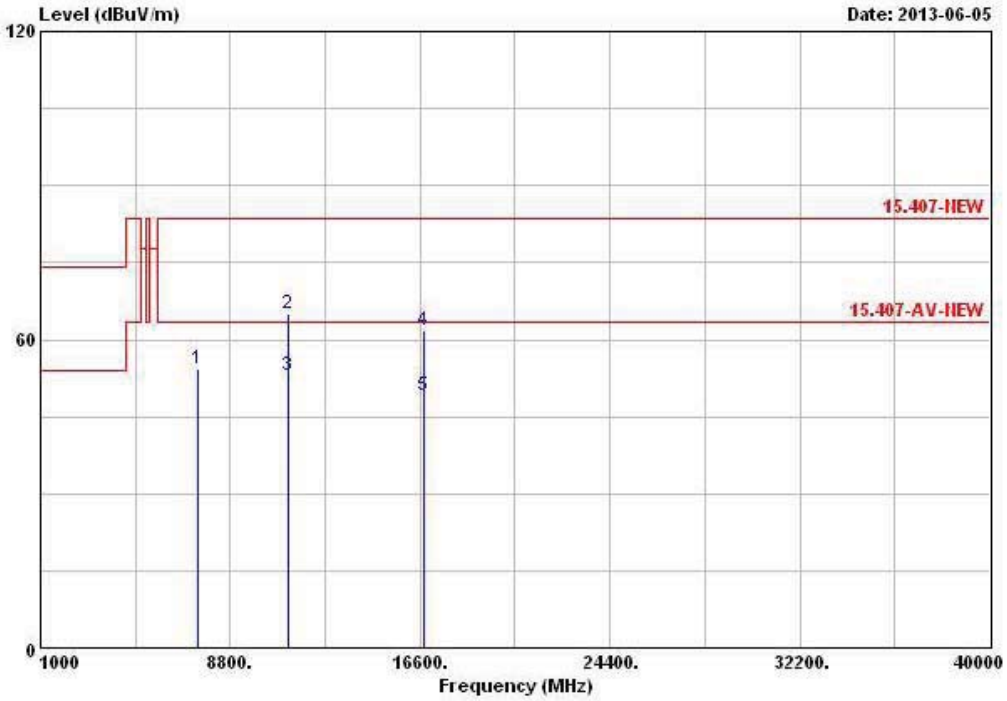
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5500
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7333.000	56.52	-7.02	63.54	47.73	37.43	4.23	32.87	PK	---	---
2	11000.000	63.31	-20.23	83.54	52.30	39.10	4.51	32.60	Peak	---	---
3	11000.000	50.25	-13.29	63.54	39.24	39.10	4.51	32.60	Average	---	---
4	16500.000	59.34	-4.20	63.54	43.75	39.80	8.01	32.22	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

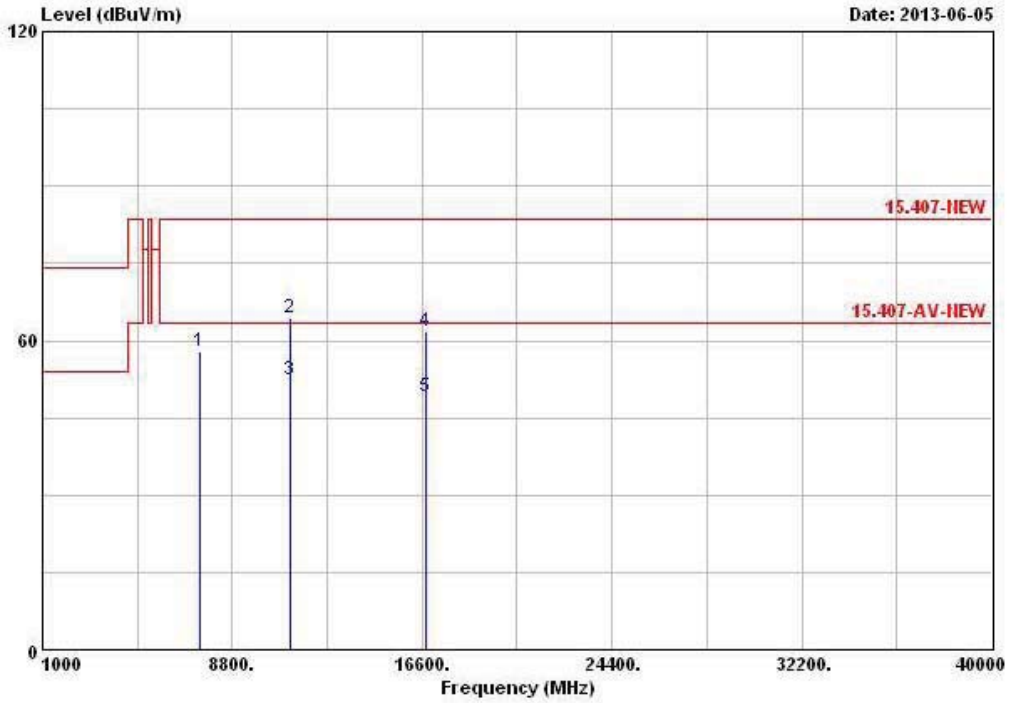
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7440.000	54.22	-9.32	63.54	45.27	37.68	4.17	32.90	PK	---	---
2	11160.000	64.99	-18.55	83.54	53.65	39.37	4.56	32.59	Peak	---	---
3	11160.000	53.07	-10.47	63.54	41.73	39.37	4.56	32.59	Average	---	---
4	16740.000	61.70	-21.84	83.54	44.24	41.20	8.18	31.92	Peak	---	---
5	16740.000	49.10	-14.44	63.54	31.64	41.20	8.18	31.92	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

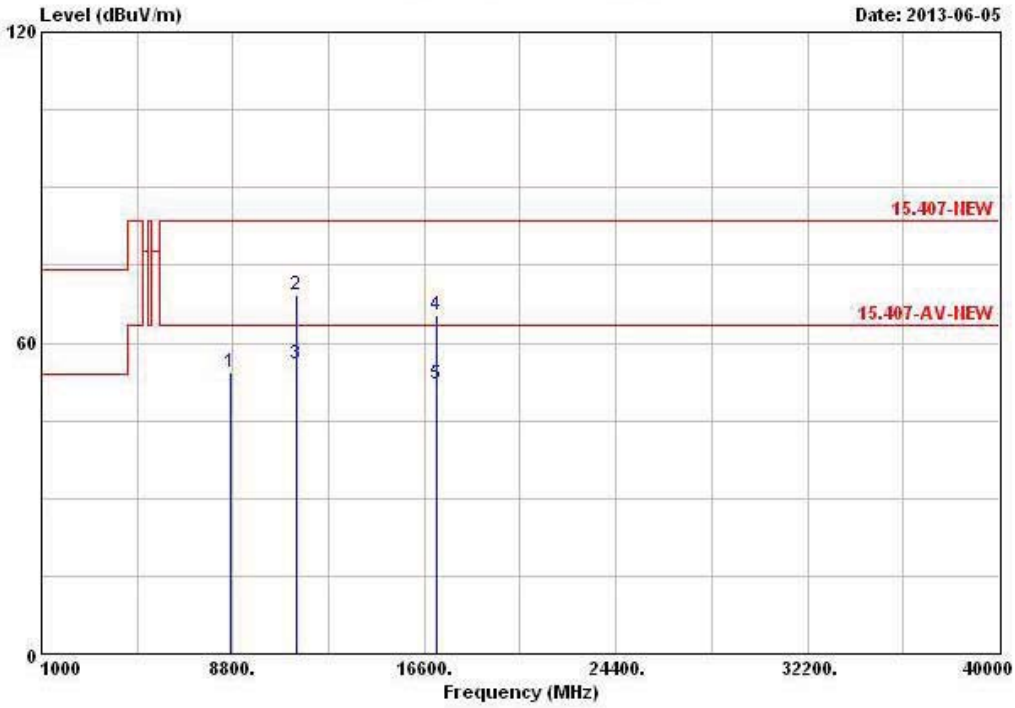
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5580
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7440.000	58.04	-5.50	63.54	49.09	37.68	4.17	32.90	PK	---	---
2	11160.000	64.52	-19.02	83.54	53.18	39.37	4.56	32.59	Peak	---	---
3	11160.000	52.38	-11.16	63.54	41.04	39.37	4.56	32.59	Average	---	---
4	16740.000	61.79	-21.75	83.54	44.33	41.20	8.18	31.92	Peak	---	---
5	16740.000	49.20	-14.34	63.54	31.74	41.20	8.18	31.92	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

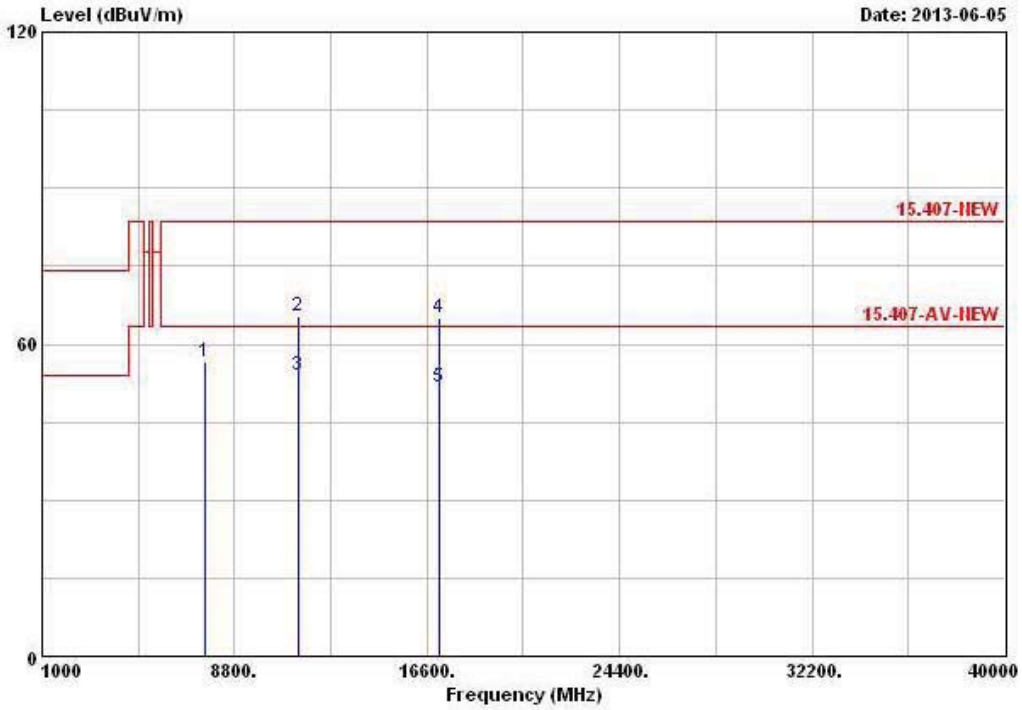
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5700
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8724.000	54.39	-9.15	63.54	44.49	38.42	4.58	33.10	PK	---	---
2	11400.000	69.12	-14.42	83.54	57.35	39.74	4.61	32.58	Peak	---	---
3	11400.000	56.01	-7.53	63.54	44.24	39.74	4.61	32.58	Average	---	---
4	17100.000	65.37	-18.17	83.54	45.11	43.32	8.55	31.61	Peak	---	---
5	17100.000	51.89	-11.65	63.54	31.63	43.32	8.55	31.61	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

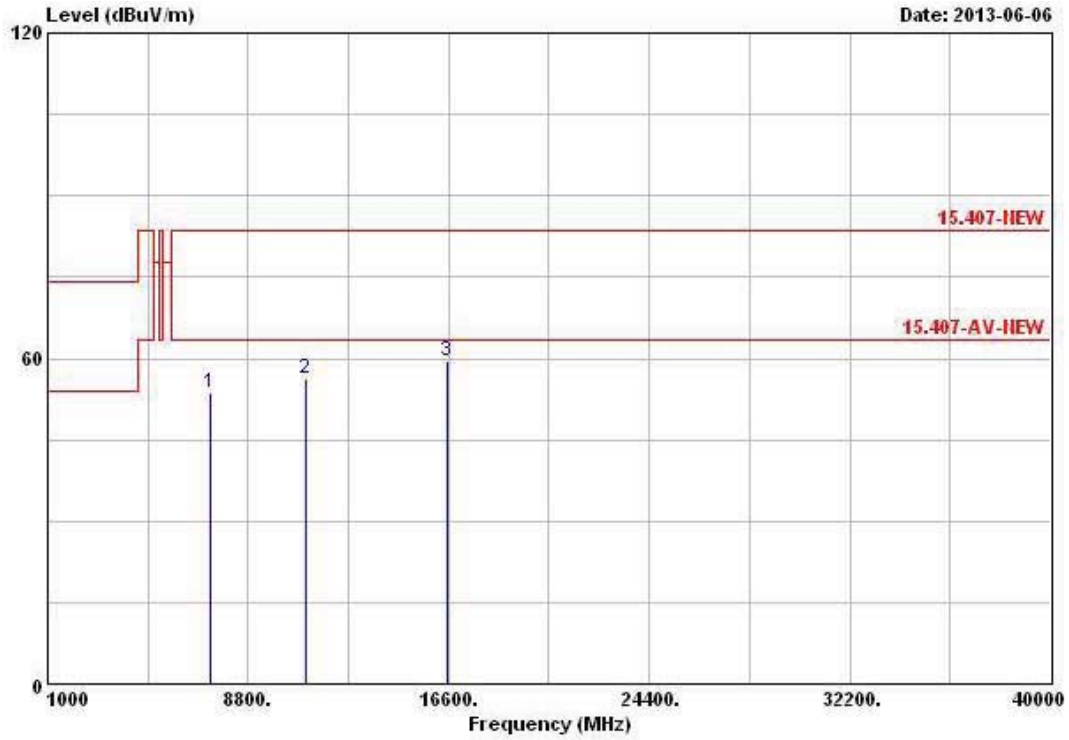
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5700
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7600.000	56.46	-7.08	63.54	47.56	37.78	4.06	32.94	PK	---	---
2	11400.000	65.27	-18.27	83.54	53.50	39.74	4.61	32.58	Peak	---	---
3	11400.000	53.91	-9.63	63.54	42.14	39.74	4.61	32.58	Average	---	---
4	17100.000	64.92	-18.62	83.54	44.66	43.32	8.55	31.61	Peak	---	---
5	17100.000	51.79	-11.75	63.54	31.53	43.32	8.55	31.61	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

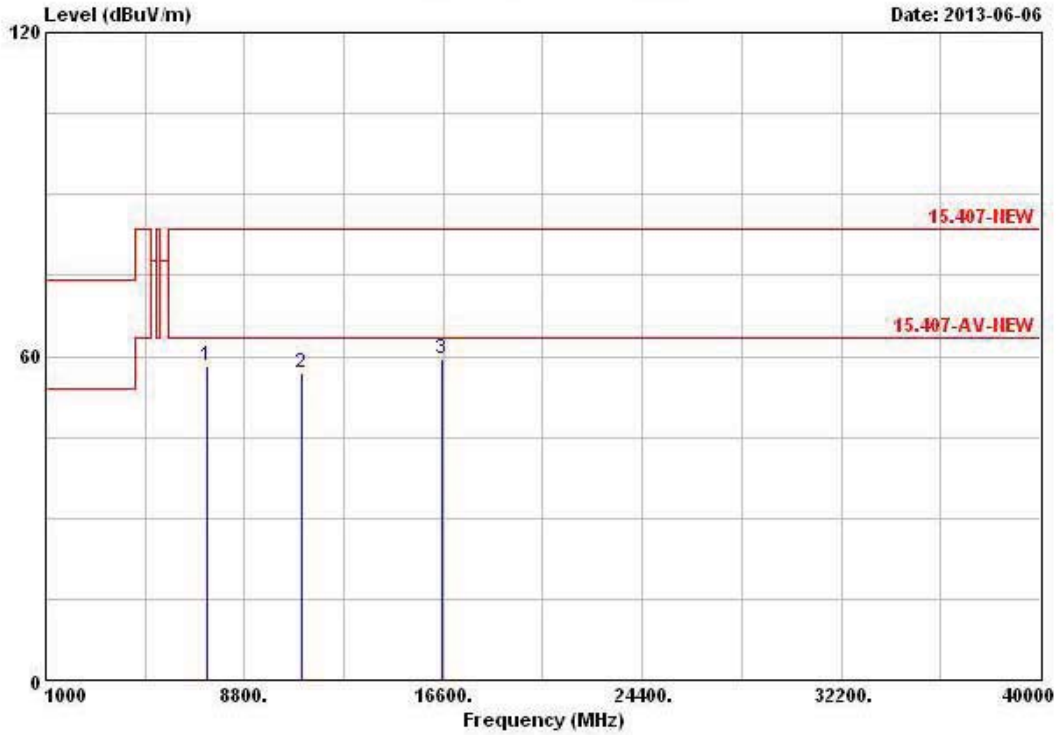
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5510
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7342.000	53.50	-10.04	63.54	44.74	37.43	4.21	32.88	PK	---	---
2	11020.000	56.37	-7.17	63.54	45.32	39.13	4.52	32.60	PK	---	---
3	16530.000	59.66	-3.88	63.54	43.81	40.00	8.04	32.19	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

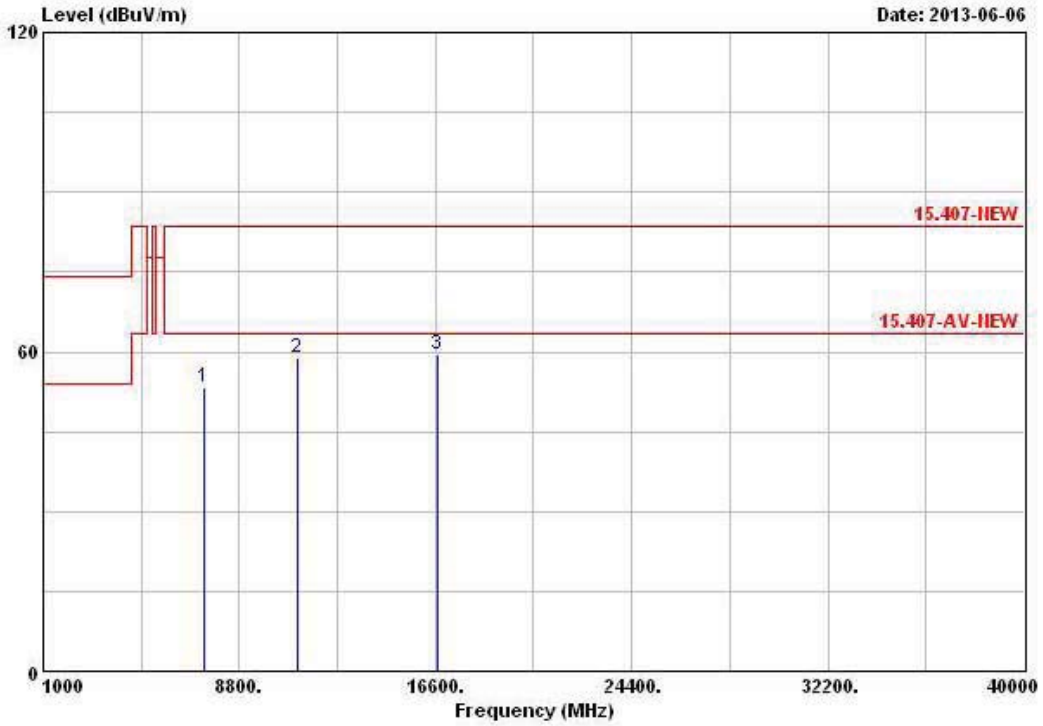
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5510
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7342.000	58.22	-5.32	63.54	49.46	37.43	4.21	32.88	PK	---	---
2	11020.000	56.81	-6.73	63.54	45.76	39.13	4.52	32.60	PK	---	---
3	16530.000	59.53	-4.01	63.54	43.68	40.00	8.04	32.19	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

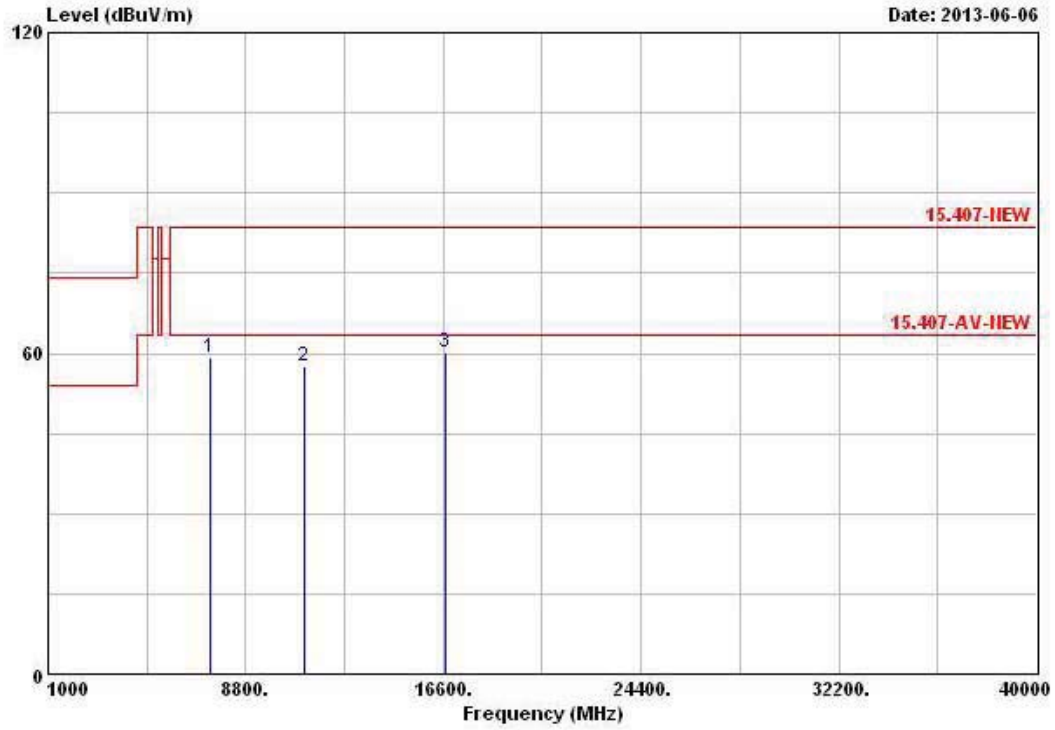
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7400.000	53.24	-10.30	63.54	44.39	37.55	4.19	32.89	PK	---	---
2	11100.000	58.80	-4.74	63.54	47.59	39.26	4.54	32.59	PK	---	---
3	16650.000	59.64	-3.90	63.54	42.85	40.70	8.11	32.02	PK	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

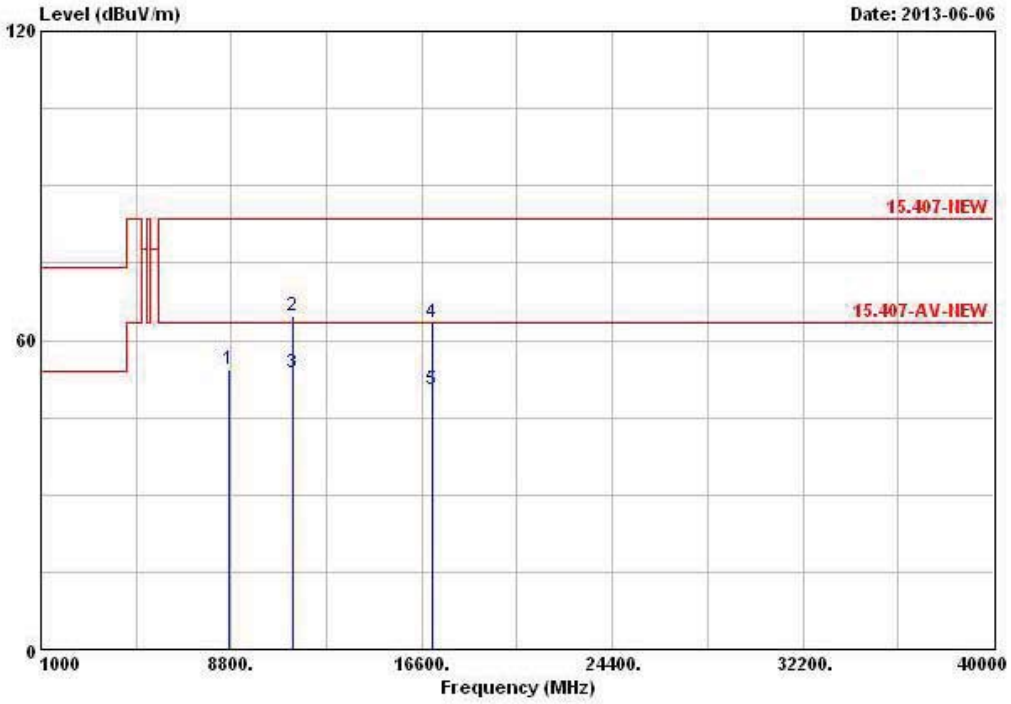
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5550
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7400.000	59.09	-4.45	63.54	50.24	37.55	4.19	32.89	PK	---	---
2	11100.000	57.62	-5.92	63.54	46.41	39.26	4.54	32.59	PK	---	---
3	16650.000	60.25	-3.29	63.54	43.46	40.70	8.11	32.02	PK	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

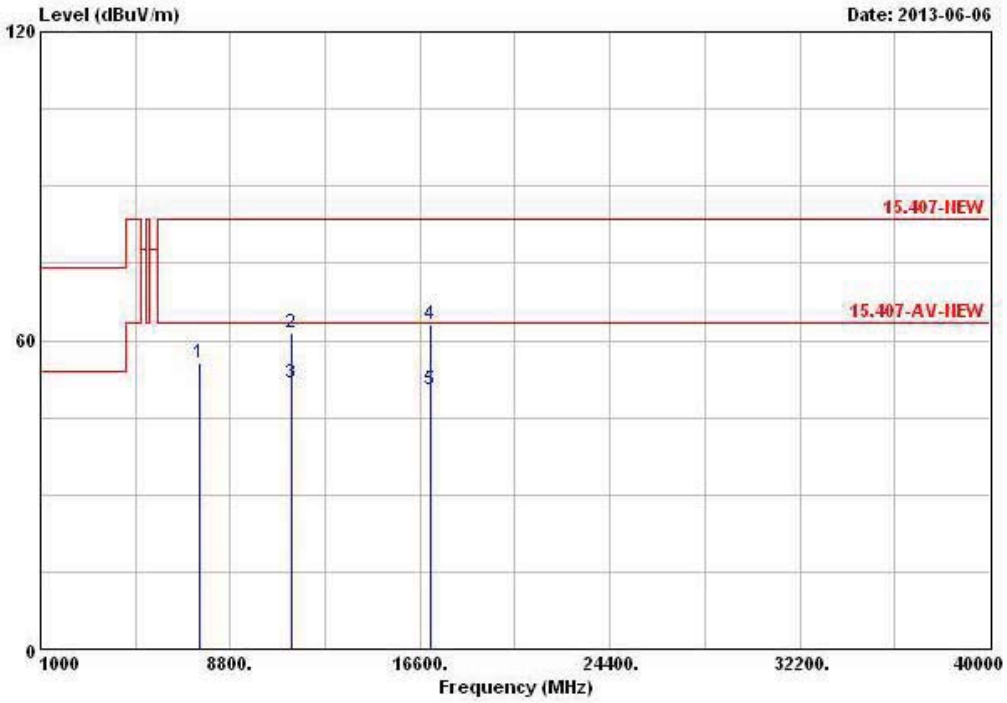
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5670
N_{TX}	3	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8724.000	54.39	-9.15	63.54	44.49	38.42	4.58	33.10	PK	---	---
2	11340.000	64.72	-18.82	83.54	53.08	39.63	4.59	32.58	Peak	---	---
3	11340.000	53.63	-9.91	63.54	41.99	39.63	4.59	32.58	Average	---	---
4	17010.000	63.55	-19.99	83.54	43.94	42.80	8.40	31.59	Peak	---	---
5	17010.000	50.48	-13.06	63.54	30.87	42.80	8.40	31.59	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5670
N_{TX}	3	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7560.000	55.46	-8.08	63.54	46.51	37.79	4.09	32.93	PK	---	---
2	11340.000	61.39	-22.15	83.54	49.75	39.63	4.59	32.58	Peak	---	---
3	11340.000	51.64	-11.90	63.54	40.00	39.63	4.59	32.58	Average	---	---
4	17010.000	63.07	-20.47	83.54	43.46	42.80	8.40	31.59	Peak	---	---
5	17010.000	50.55	-12.99	63.54	30.94	42.80	8.40	31.59	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.8 Frequency Stability

3.8.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
☒ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
☒ N/A
IEEE Std. 802.11n-2009
☒ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

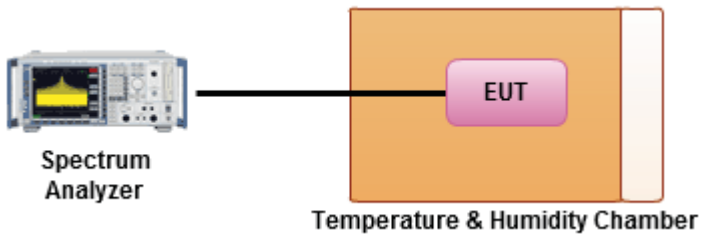
3.8.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.8.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
	☒ Frequency stability with respect to ambient temperature
	☒ Frequency stability when varying supply voltage
☒	For conducted measurement.
	☒ For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
☐	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.8.4 Test Setup

Frequency Stability


3.8.5 Test Result of Frequency Stability

Frequency Stability Result			
Mode		**Frequency Stability (ppm)**	
Condition	**Freq. (MHz)**	**Test Frequency (MHz)**	**Frequency Stability (ppm)**
$T_{20°C}$Vmax	5300	5299.99479	-0.9830
$T_{20°C}$Vmin	5300	5299.99479	-0.9830
$T_{50°C}$Vnom	5300	5300.07294	13.7623
$T_{40°C}$Vnom	5300	5300.03603	6.7981
$T_{30°C}$Vnom	5300	5300.00955	1.8019
$T_{20°C}$Vnom	5300	5299.99479	-0.9830
$T_{10°C}$Vnom	5300	5299.98567	-2.7038
$T_{0°C}$Vnom	5300	5299.98394	-3.0302
$T_{-10°C}$Vnom	5300	5299.98611	-2.6208
$T_{-20°C}$Vnom	5300	5299.99175	-1.5566
Limit (ppm)		20	
Result		**Complied**	
Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 1.1.5 for EUT operational condition.			

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2013	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2013	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 18, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Nov. 09, 2012	Conduction (CO04-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP 40	100305	9KHz~40GHz	Mar. 20, 2013	Conducted (TH01-HY)
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 02, 2012	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100℃	Nov. 21, 2012	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 26, 2012	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	Feb. 02, 2013	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	Feb. 02, 2013	Conducted (TH01-HY)
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345675/4	1GHz ~ 26.5GHz	NA	Conducted (TH01-HY)
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	1GHz ~ 26.5GHz	NA	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Sep. 14, 2012	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 9, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 23, 2012	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 10, 2012	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz ~ 18GHz	Nov. 16, 2012	Radiation (03CH02-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 10, 2012	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2013	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 22, 2012	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 ~ 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is two year.