

FCC Test Report

Equipment : 11ac Dual Band concurrent Wireless Router
Brand Name : EDIMAX
Model No. : BR-6208AC / GR-208AC
FCC ID : NDD9562081312
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
FCC Classification : NII
Applicant : EDIMAX TECHNOLOGY CO., LTD.
Manufacturer : No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park,
New Taipei City, Taiwan
Multiple Listing : Please refer to section 1.1.1

The product sample received on Nov. 13, 2013 and completely tested on Dec. 11, 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:


Wayne Hsu / Assistant Manager





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Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.3	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 4.763MHz 35.14 (Margin 10.86dB) - AV 39.95 (Margin 16.05dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 11a/n(HT20):21.37 n(HT40):44.16 ac(VHT20):21.52 ac(VHT40):44.72 ac(VHT80): 82.80	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz:16.06	Power [dBm] 5150-5250MHz:17	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5150-5250MHz:3.91	PPSD [dBm/MHz] 5150-5250MHz:4	Complied
3.5	15.407(a)	Peak Excursion	9.28 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Bandedge Emissions	Restricted Bands [dBuV/m at 1m]: 5150.000MHz 79.78 (Margin 3.76dB) - PK 62.47 (Margin 1.07dB) - AV	Non-Restricted Bands: ≤ -27dBm (83.54dBuV/m@1m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Unwanted Emissions	Restricted Bands [dBuV/m at 1m]: 10480MHz 70.95 (Margin 12.59dB) - PK 58.02 (Margin 5.52dB) - AV	Non-Restricted Bands: ≤ -27dBm (83.54dBuV/m@1m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	7.6448 ppm	Signal shall remain in-band	Complied

1 General Description

1.1 Information

1.1.1 Table for Multiple Listing

Brand and models that are exactly the same EUT, products with different models only because of market segmentation.

NO.	Brand Name	Model Name
1	Edimax	BR-6208AC,GR-208AC
2	SMARTLINK	DG-BR4400AC

1.1.2 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
5150-5250	a	5180-5240	36-48 [4]	1	14.35	Yes
5150-5250	n (HT20) ac (VHT20)	5180-5240	36-48 [4]	1 / 1	14.82 / 14.65	Yes
5150-5250	n (HT40) ac (VHT40)	5190-5230	38-46 [2]	1 / 1	16.06 / 15.85	Yes
5150-5250	ac (VHT80)	5210	42 [1]	1	15.55	Yes

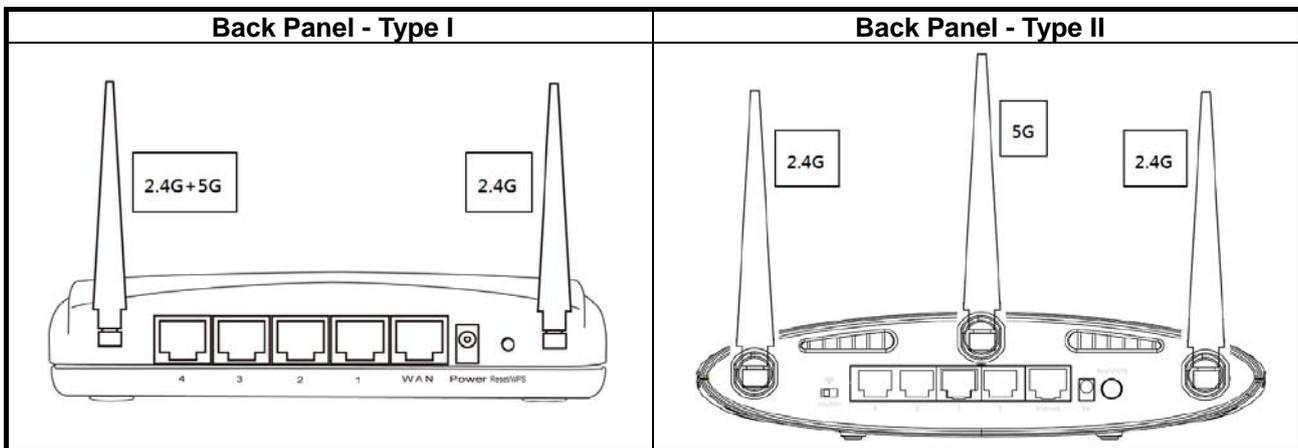
Note 1: RF output power specifies that Maximum Conducted Output Power.
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
 Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
 Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

1.1.3 Antenna Information

Antenna Category	
<input checked="" type="checkbox"/>	External antenna (dedicated antennas)
<input checked="" type="checkbox"/>	Single power level with corresponding antenna(s).
<input type="checkbox"/>	Multiple power level and corresponding antenna(s).

Antenna General Information					
No.	Antenna Port	Ant. Cat.	Ant. Type	Gain (dBi)	EUT Model Name
1	2	External	Dipole	5.38	BR-6208AC / GR-208AC
2	3	External	Dipole	5.40	BR-6208AC

Note: The RF Conducted performed the worst configuration for higher gain was test in final test report.



1.1.4 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	<input type="checkbox"/> Production ; <input type="checkbox"/> Pre-Production ; <input checked="" type="checkbox"/> Prototype
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.:
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.:
<input type="checkbox"/>	Other:



1.1.5 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
<input type="checkbox"/> Operated normally mode for worst duty cycle	
<input checked="" type="checkbox"/> Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11a	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11n (HT20)	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11n (HT40)	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT20)	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT40)	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT80)	0.00

1.1.6 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input type="checkbox"/> DC	<input type="checkbox"/> System
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input checked="" type="checkbox"/> External DC adapter	<input type="checkbox"/> Battery

1.2 Product Details

The equipment is 11ac Dual Band concurrent Wireless Router. There are two types of this product. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

1.3 Accessories

Accessories Information				
AC Adapter	Brand Name	DVE	Model Name	DSA-9PFB-05 FUS 050150
	Power Rating	I/P: 100-240V ~ 50/60Hz 0.3A; O/P: 5V $\overline{=}$ 1.5A		

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

1.4 Support Equipment

Support Equipment			
No.	Equipment	Brand Name	Model Name
1	Notebook	DELL	E5530

1.5 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 644545 D02
- ◆ FCC KDB 662911

1.6 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1 st 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
AC Conduction	CO04-HY	Zeus	23°C / 50%
RF Conducted	TH01-HY	Ian	24.6°C / 66%
Radiated Emission	03CH02-HY	Daniel	21.8°C / 52%

1.7 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
AC power-line conducted emissions		±2.26 dB
Emission bandwidth, 26dB bandwidth		±1.42 %
RF output power, conducted		±0.63 dB
Power density, conducted		±0.81 dB
Unwanted emissions, conducted	9 – 150 kHz	±0.38 dB
	0.15 – 30 MHz	±0.42 dB
	30 – 1000 MHz	±0.51 dB
	1 – 18 GHz	±0.67 dB
	18 – 40 GHz	±0.83 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.49 dB
	0.15 – 30 MHz	±2.28 dB
	30 – 1000 MHz	±2.56 dB
	1 – 18 GHz	±3.59 dB
	18 – 40 GHz	±3.82 dB
	40 – 200 GHz	N/A
Temperature		±0.8 °C
Humidity		±3 %
DC and low frequency voltages		±3 %
Time		±1.42 %
Duty Cycle		±1.42 %

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
HT40,M0-7	1	M0-7	M0
VHT20,M0-8	1	M0-8	M0
VHT40,M0-9	1	M0-8	M0
VHT80,M0-9	1	M0-9	M0

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)							
Test Software Version	RTL819_2.3						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		5180	5200	5240	5190	5230	5210
11a,6-54Mbps	1	39	36	32	-	-	-
HT20,M0-7	1	39	38	33	-	-	-
HT40,M0-7	1	-	-	-	39	39	-
VHT20,M0-8	1	39	38	33	-	-	-
VHT40,M0-9	1	-	-	-	39	39	-
VHT80,M0-9	1	-	-	-	-	-	39

2.3 The Worst Case Measurement Configuration

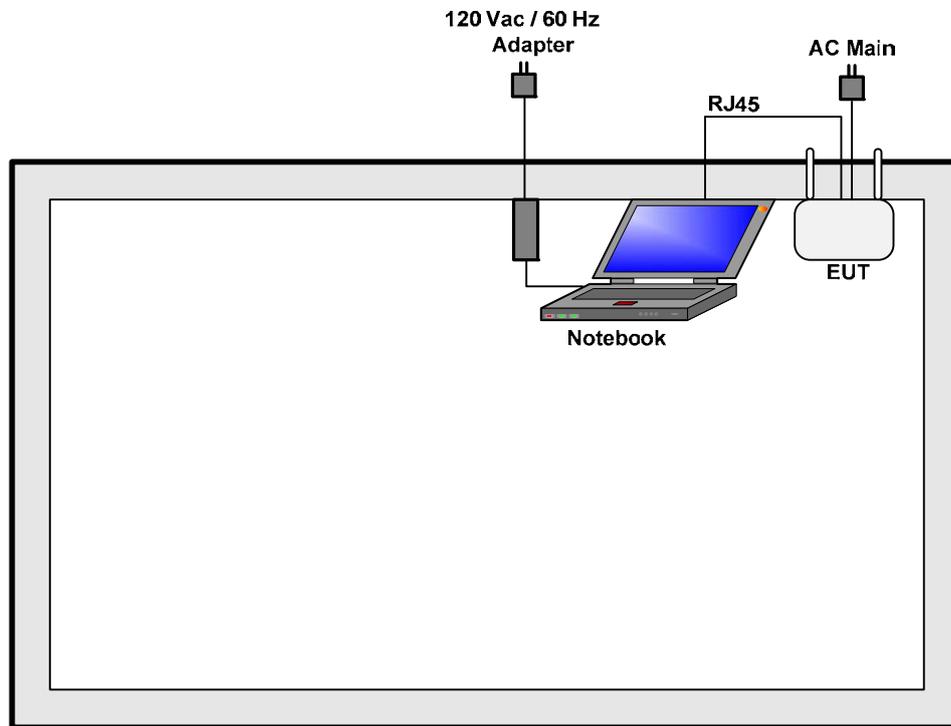
The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	AC Power & Radio link (Model Name (BR-6208AC / GR-208AC))
2	AC Power & Radio link (Model Name (BR-6208AC))

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, VHT20, VHT40, VHT80

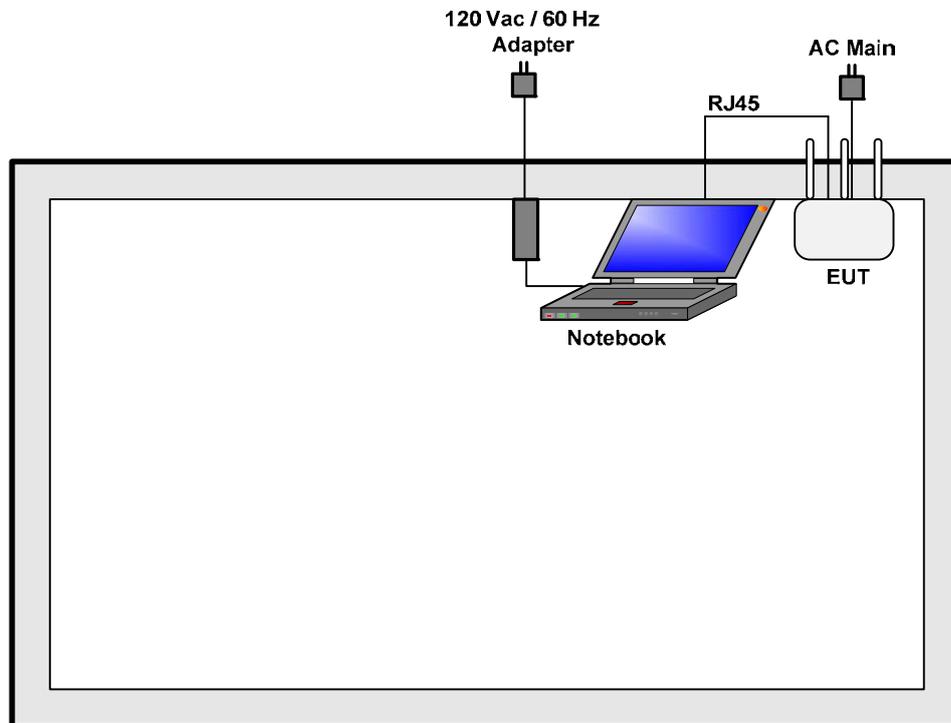
The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	<input checked="" type="checkbox"/> EUT will be placed in fixed position. The worst planes is X.		
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes.		
	<input type="checkbox"/> 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	<input checked="" type="checkbox"/> 1. AC Power & Radio link (WLAN)		
	Mode 1: Model Name (BR-6208AC / GR-208AC)		
	Mode 2: Model Name (BR-6208AC)		
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

2.4 Test Setup Diagram

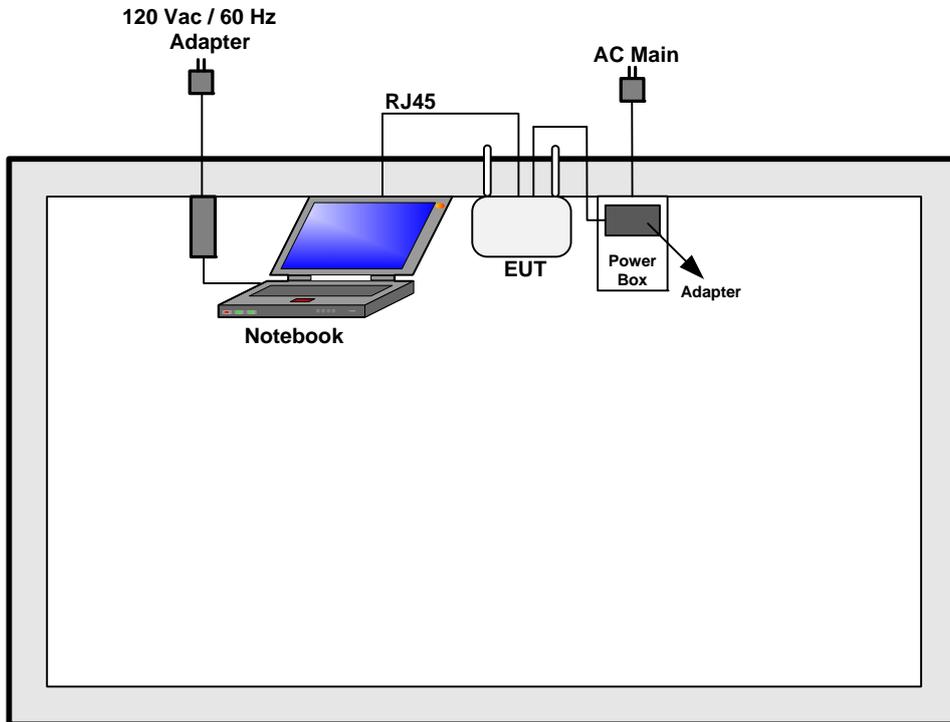
Test Setup Diagram - AC Line Conducted Emission Test (Mode 1)



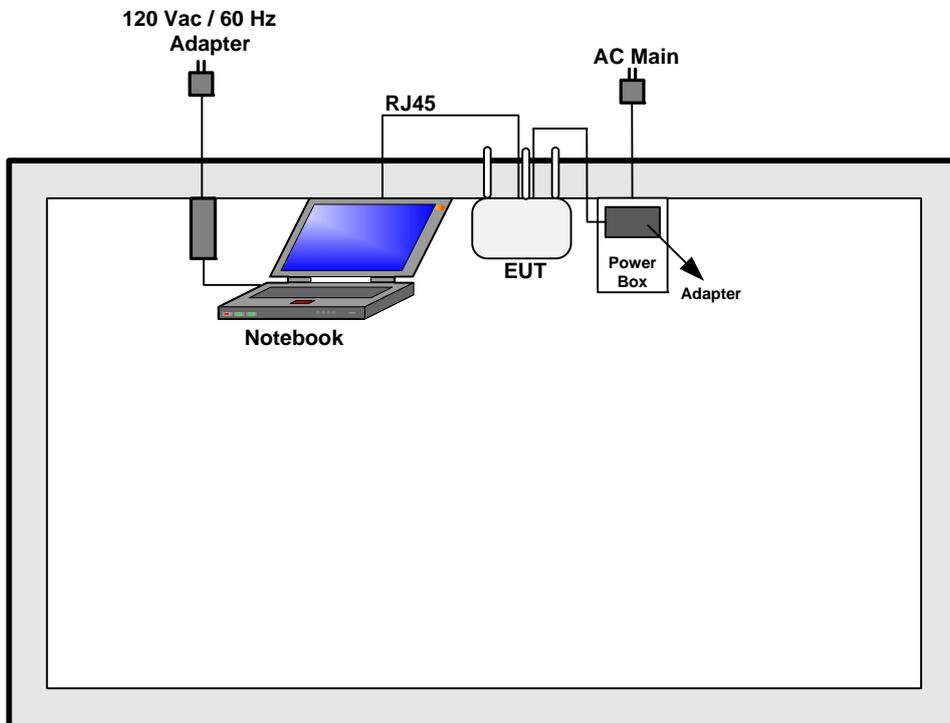
Test Setup Diagram - AC Line Conducted Emission Test (Mode 2)



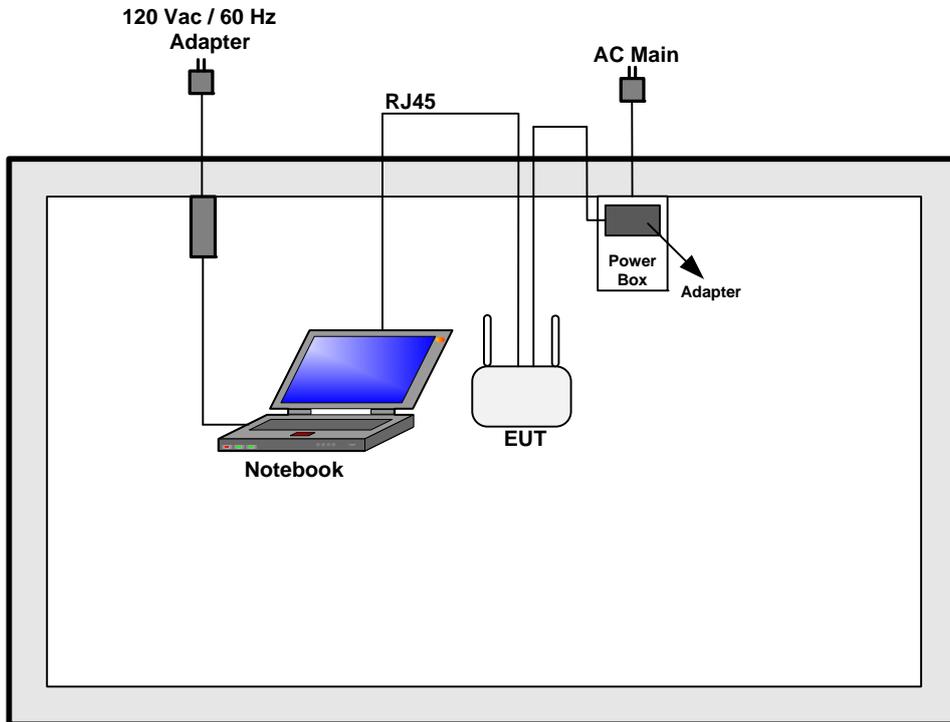
Test Setup Diagram - Radiated Below 1GHz Test (Mode 1)



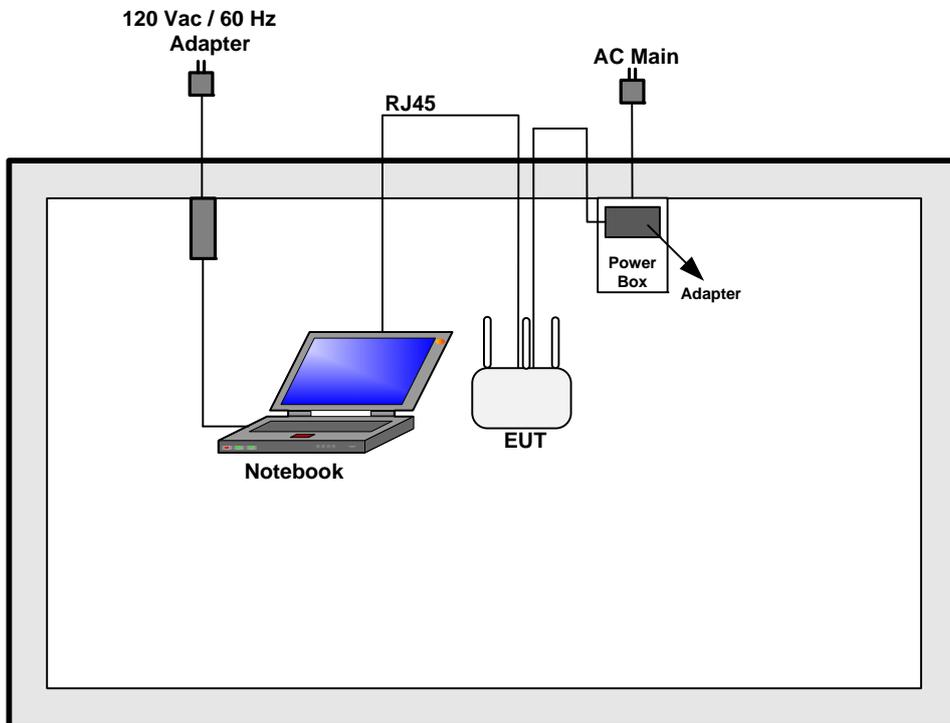
Test Setup Diagram - Radiated Below 1GHz Test (Mode 2)



Test Setup Diagram - Radiated Above 1GHz Test (Mode 1)



Test Setup Diagram - Radiated Above 1GHz Test (Mode 2)



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.

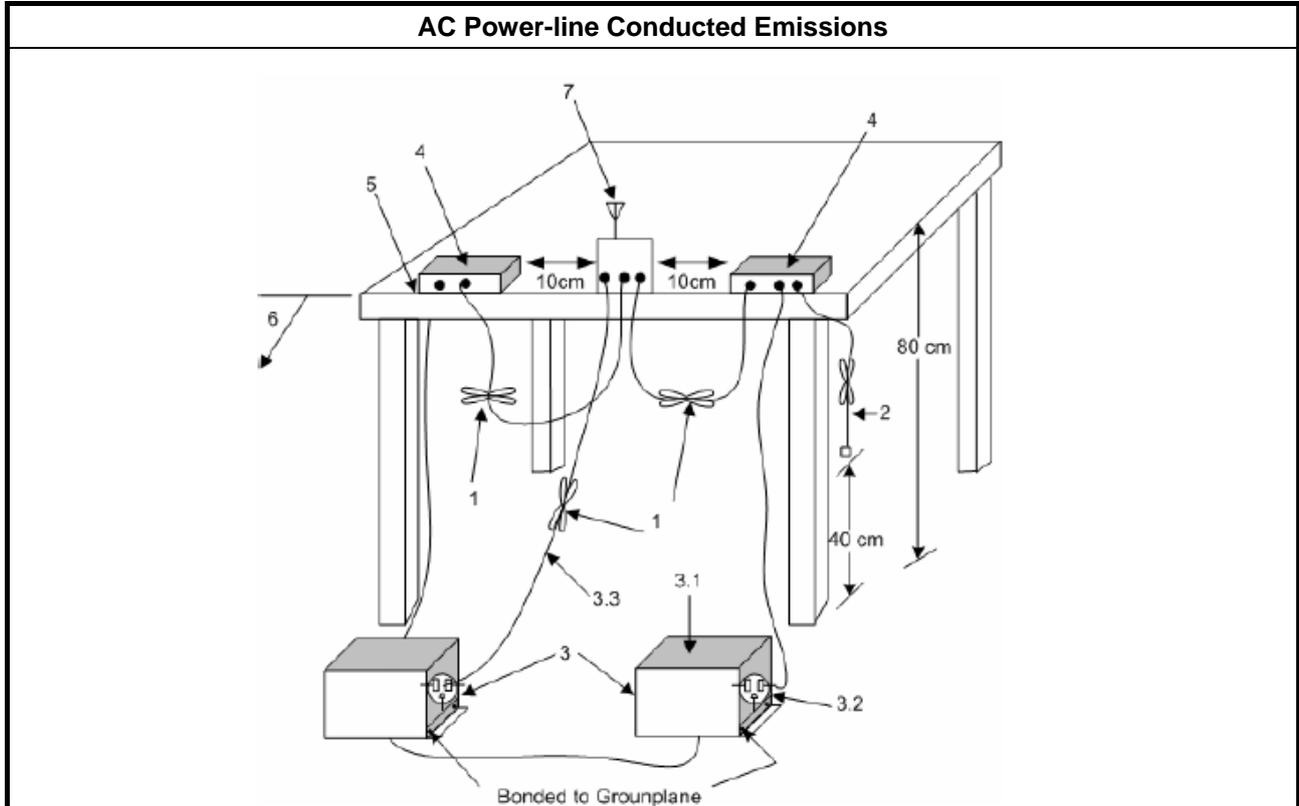
3.1.2 Measuring Instruments

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

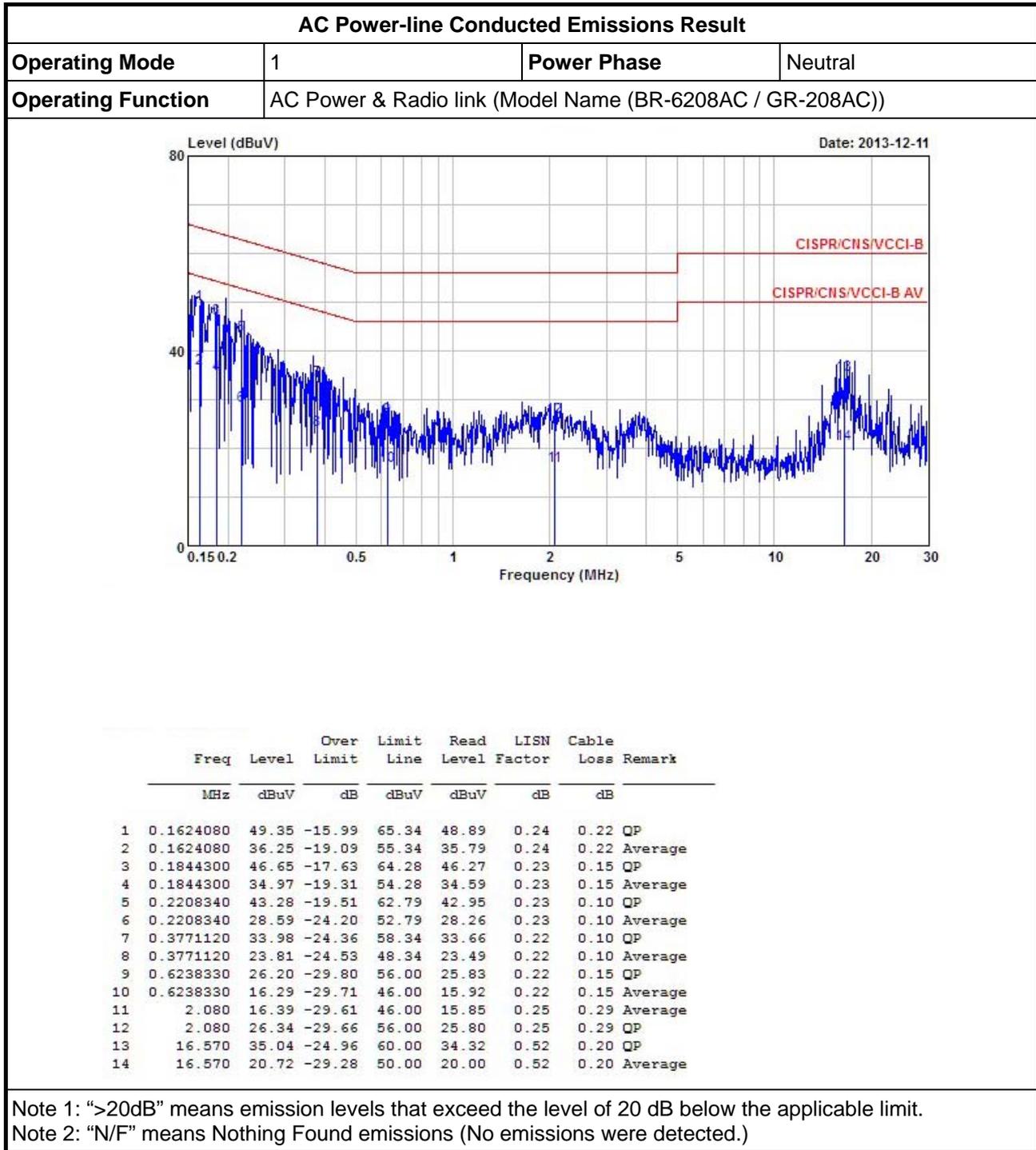
3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

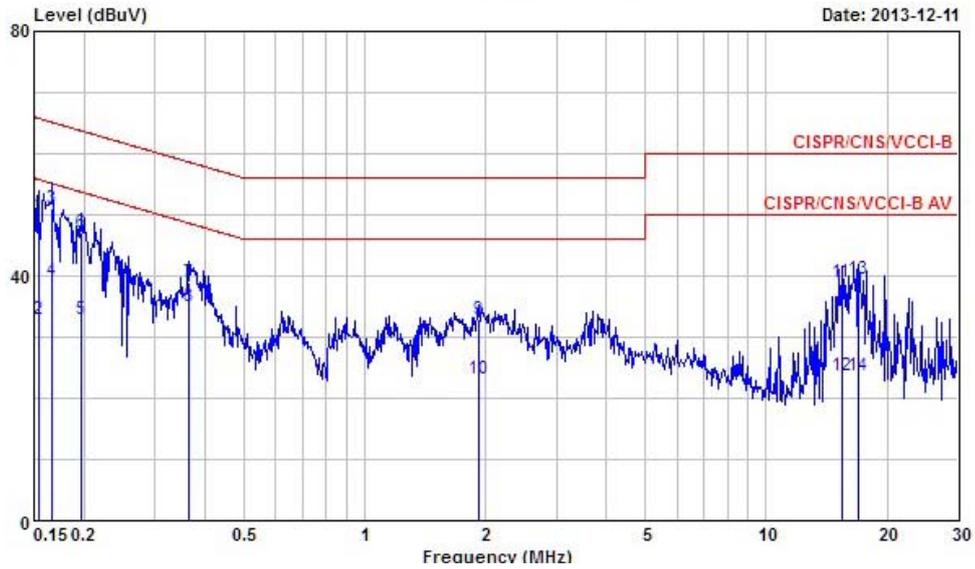


3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	AC Power & Radio link (Model Name (BR-6208AC / GR-208AC))		



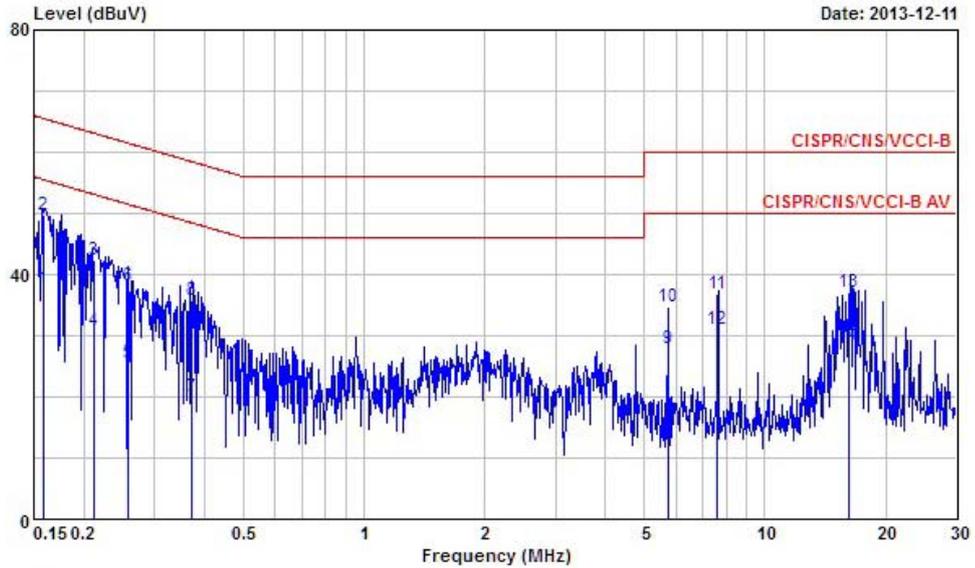
-----	-----	-----	-----	-----	-----	-----	-----	-----
Freq	Level	Over	Limit	Read	LISN	Cable	Remark	
MHz	dBuV	Limit	Line	Level	Factor	Loss		
		dB	dBuV	dBuV	dB	dB		
1	0.1540270	50.01	-15.77	65.78	49.65	0.11	0.25	QP
2	0.1540270	32.95	-22.83	55.78	32.59	0.11	0.25	Average
3	0.1667680	50.96	-14.16	65.12	50.65	0.11	0.20	QP
4	0.1667680	39.16	-15.96	55.12	38.85	0.11	0.20	Average
5	0.1965370	32.91	-20.85	53.76	32.69	0.11	0.11	Average
6	0.1965370	47.10	-16.66	63.76	46.88	0.11	0.11	QP
7	0.3633820	39.07	-19.58	58.65	38.87	0.10	0.10	QP
8	0.3633820	34.92	-13.73	48.65	34.72	0.10	0.10	Average
9	1.920	32.88	-23.12	56.00	32.46	0.13	0.29	QP
10	1.920	23.05	-22.95	46.00	22.63	0.13	0.29	Average
11	15.390	38.83	-21.17	60.00	38.35	0.28	0.20	QP
12	15.390	23.74	-26.26	50.00	23.26	0.28	0.20	Average
13	16.930	39.57	-20.43	60.00	39.08	0.29	0.20	QP
14	16.930	23.76	-26.24	50.00	23.27	0.29	0.20	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	2	Power Phase	Neutral
Operating Function	AC Power & Radio link (Model Name (BR-6208AC))		



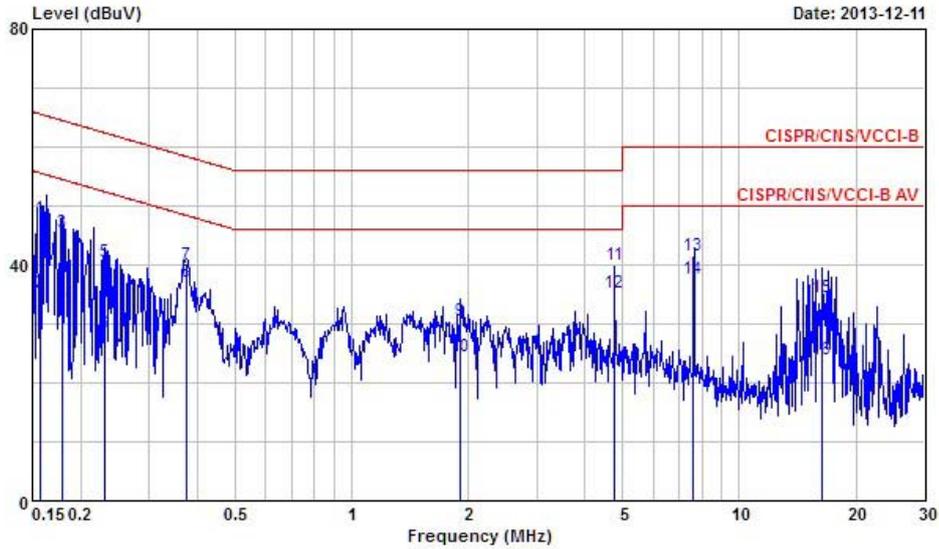
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.1590020	37.61	-17.91	55.52	37.14	0.24	0.23	Average
2	0.1590020	49.78	-15.74	65.52	49.31	0.24	0.23	QP
3	0.2116700	42.44	-20.70	63.14	42.11	0.23	0.10	QP
4	0.2116700	30.69	-22.45	53.14	30.36	0.23	0.10	Average
5	0.2575110	25.41	-26.10	51.51	25.08	0.23	0.10	Average
6	0.2575110	38.10	-23.41	61.51	37.77	0.23	0.10	QP
7	0.3711650	20.04	-28.43	48.47	19.72	0.22	0.10	Average
8	0.3711650	35.90	-22.57	58.47	35.58	0.22	0.10	QP
9	5.717	27.85	-22.15	50.00	27.35	0.34	0.16	Average
10	5.717	34.67	-25.33	60.00	34.17	0.34	0.16	QP
11	7.623	36.76	-23.24	60.00	36.25	0.38	0.13	QP
12	7.623	31.07	-18.93	50.00	30.56	0.38	0.13	Average
13	16.228	37.12	-22.88	60.00	36.40	0.52	0.20	QP
14	16.228	28.37	-21.63	50.00	27.65	0.52	0.20	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	2	Power Phase	Line
Operating Function	AC Power & Radio link (Model Name (BR-6208AC))		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.1573260	47.95	-17.65	65.60	47.60	0.11	0.24	QP
2	0.1573260	35.16	-20.44	55.60	34.81	0.11	0.24	Average
3	0.1796080	45.58	-18.92	64.50	45.31	0.11	0.16	QP
4	0.1796080	33.38	-21.12	54.50	33.11	0.11	0.16	Average
5	0.2303960	40.53	-21.91	62.44	40.32	0.11	0.10	QP
6	0.2303960	28.50	-23.94	52.44	28.29	0.11	0.10	Average
7	0.3731370	40.05	-18.38	58.43	39.85	0.10	0.10	QP
8	0.3731370	37.22	-11.21	48.43	37.02	0.10	0.10	Average
9	1.910	30.58	-25.42	56.00	30.16	0.13	0.29	QP
10	1.910	24.40	-21.60	46.00	23.98	0.13	0.29	Average
11	4.763	39.95	-16.05	56.00	39.60	0.17	0.18	QP
12	4.763	35.14	-10.86	46.00	34.79	0.17	0.18	Average
13	7.622	41.61	-18.39	60.00	41.27	0.21	0.13	QP
14	7.622	37.56	-12.44	50.00	37.22	0.21	0.13	Average
15	16.400	34.43	-25.57	60.00	33.94	0.29	0.20	QP
16	16.400	24.02	-25.98	50.00	23.53	0.29	0.20	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.)

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

Emission Bandwidth (EBW) Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.

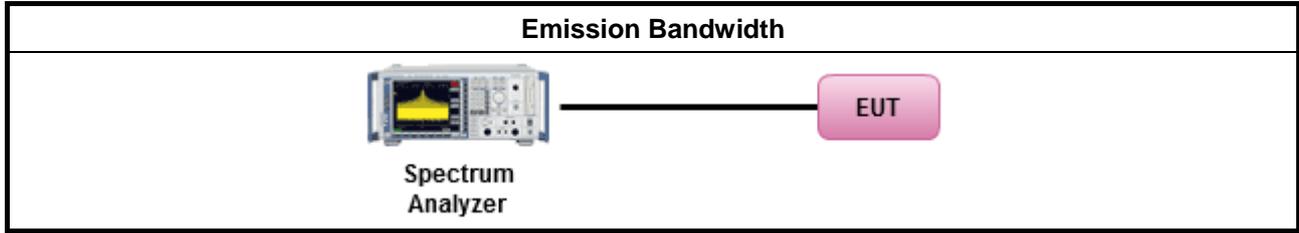
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

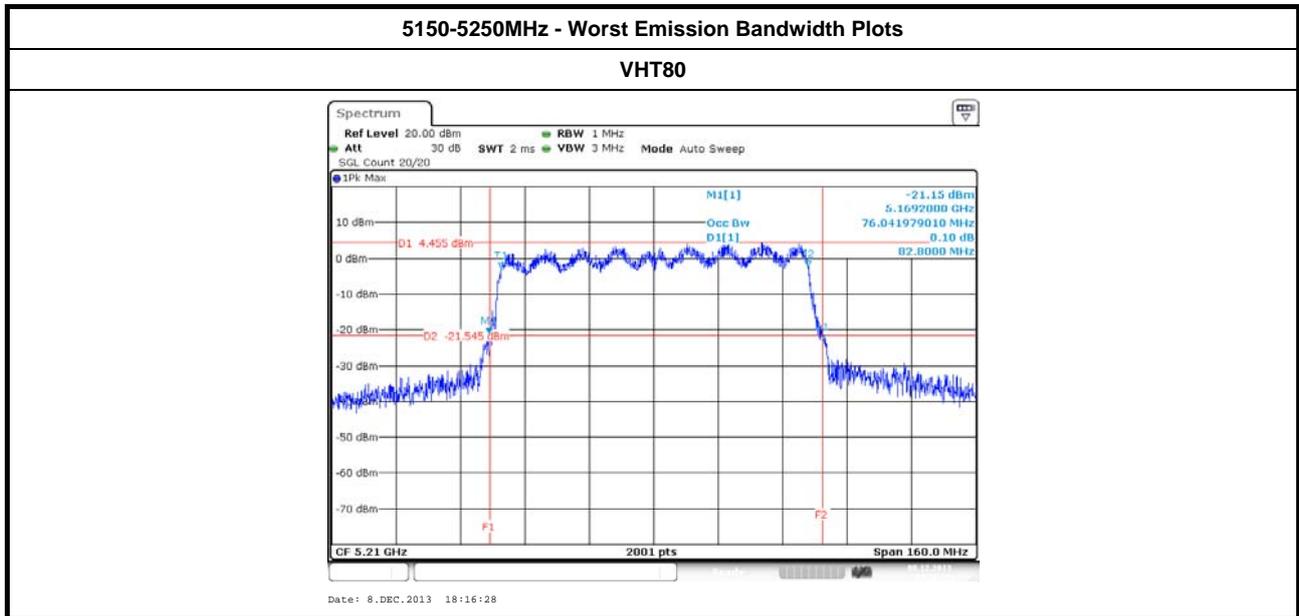
Test Method	
<input checked="" type="checkbox"/>	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain port 3.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input type="checkbox"/>	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 1.
<input type="checkbox"/>	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



3.2.5 Test Result of Emission Bandwidth

UNII Emission Bandwidth Result (5150-5250MHz band)						
Condition			Emission Bandwidth (MHz)			
Modulation Mode	N _{Tx}	Freq. (MHz)	99% Bandwidth	26dB Bandwidth	Power Limit	
			Chain- Port 1	Chain- Port 1	99% BW	26dB BW
11a	1	5180	16.71	21.37	16.23	17.00
11a	1	5200	16.61	20.42	16.20	17.00
11a	1	5240	16.44	18.95	16.16	16.78
HT20,M0-7	1	5180	17.86	21.15	16.52	17.00
HT20,M0-7	1	5200	17.66	20.80	16.47	17.00
HT20,M0-7	1	5240	17.64	20.90	16.46	17.00
HT40,M0-7	1	5190	36.74	44.12	17.00	17.00
HT40,M0-7	1	5230	36.62	44.16	17.00	17.00
VHT20,M0-8	1	5180	17.91	21.52	16.53	17.00
VHT20,M0-8	1	5200	17.64	20.57	16.46	17.00
VHT20,M0-8	1	5240	17.69	20.15	16.48	17.00
VHT40,M0-9	1	5190	36.62	44.72	17.00	17.00
VHT40,M0-9	1	5230	36.66	43.80	17.00	17.00
VHT80,M0-9	1	5210	76.04	82.80	17.00	17.00
Result			Complied			



3.3 RF Output Power

3.3.1 RF Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 17 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.825 GHz band:
<input type="checkbox"/>	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or $17 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)$.
<input type="checkbox"/>	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or $17 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 23 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 23)$.
LE-LAN Devices	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.	

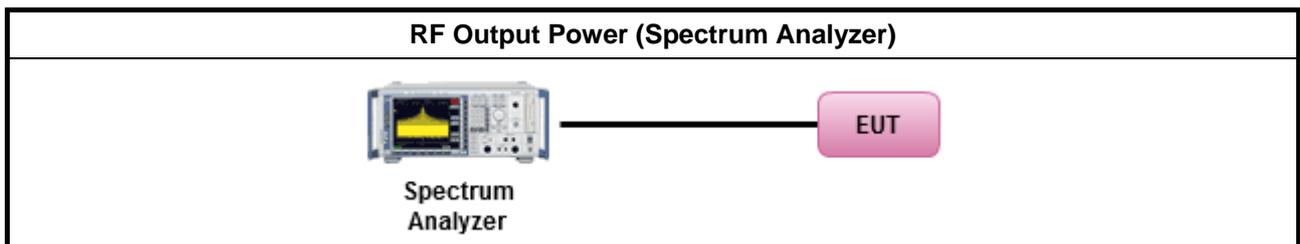
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Maximum Conducted Output Power
	[duty cycle \geq 98% or external video / power trigger]
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	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
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain port 3.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input type="checkbox"/>	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.
<input type="checkbox"/>	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Directional Gain for Power Measurement

Directional Gain (DG) Result					
Transmit Chains No.		1	-	-	-
Maximum G _{ANT} (dBi)		5.40	-	-	-
Modulation Mode	DG (dBi)	N _{TX}	N _{SS} (Min.)	STBC	Array Gain (dB)
11a,6-54Mbps	5.40	1	1	-	-
HT20,M0-7	5.40	1	1	-	-
HT40,M0-7	5.40	1	1	-	-
VHT20,M0-8	5.40	1	1	-	-
VHT40,M0-9	5.40	1	1		
VHT80,M0-9	5.40	1	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^{G₁/10} + ... + 10^{G_N/10}) / N_{TX}]
All transmit signals are completely uncorrelated, Directional Gain = 10 log[(10^{G₁/10} + ... + 10^{G_N/10}) / N_{TX}]

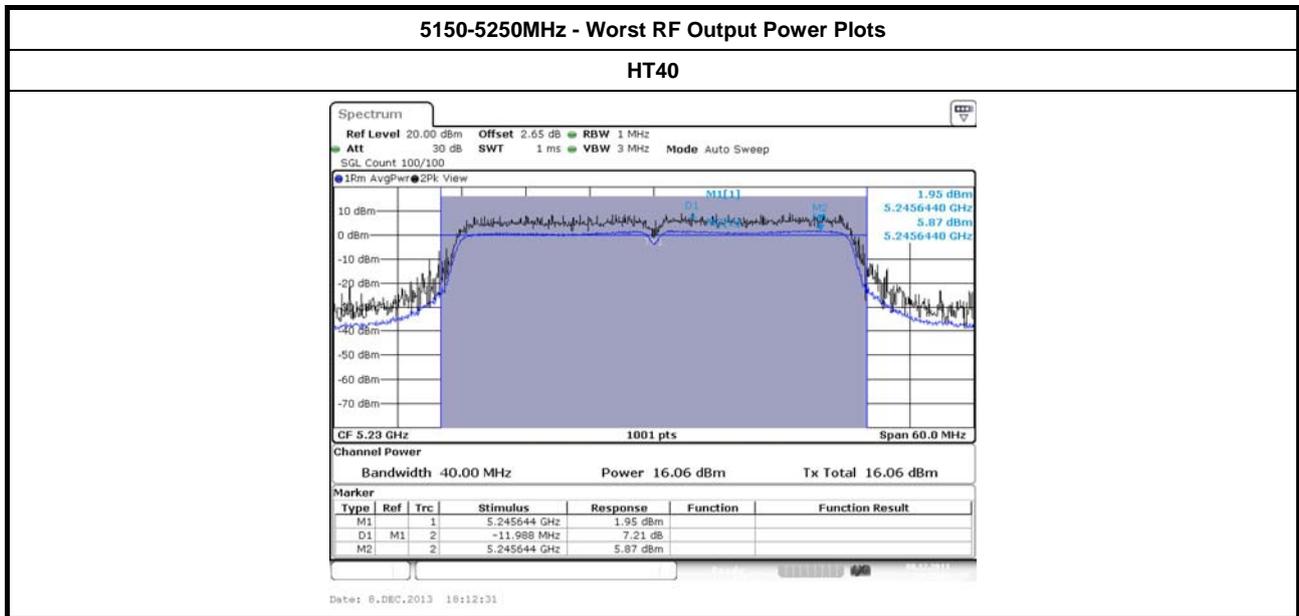
Note 3: For Spatial Multiplexing, Directional Gain (DG) = G_{ANT} + 10 log(N_{TX}/N_{SS}),
where N_{SS} = the number of independent spatial streams data.

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} ≤ 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 (5150-5250MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5180	14.33	17.00	5.40	19.73	22.23
11a	1	5200	14.34	17.00	5.40	19.74	22.20
11a	1	5240	14.35	16.78	5.40	19.75	22.16
HT20,M0-7	1	5180	14.76	17.00	5.40	20.16	22.52
HT20,M0-7	1	5200	14.82	17.00	5.40	20.22	22.47
HT20,M0-7	1	5240	14.06	17.00	5.40	19.46	22.46
HT40,M0-7	1	5190	14.60	17.00	5.40	20.00	23.00
HT40,M0-7	1	5230	16.06	17.00	5.40	21.46	23.00
VHT20,M0-8	1	5180	14.44	17.00	5.40	19.84	22.53
VHT20,M0-8	1	5200	14.65	17.00	5.40	20.05	22.46
VHT20,M0-8	1	5240	13.95	17.00	5.40	19.35	22.48
VHT40,M0-9	1	5190	14.57	17.00	5.40	19.97	23.00
VHT40,M0-9	1	5230	15.85	17.00	5.40	21.25	23.00
VHT80,M0-9	1	5210	15.33	17.00	5.40	20.73	23.00
Result			Complied				



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 4 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.825 GHz band:
<input type="checkbox"/>	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 17 - (G_{TX} - 6)$.
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<p>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.</p>	

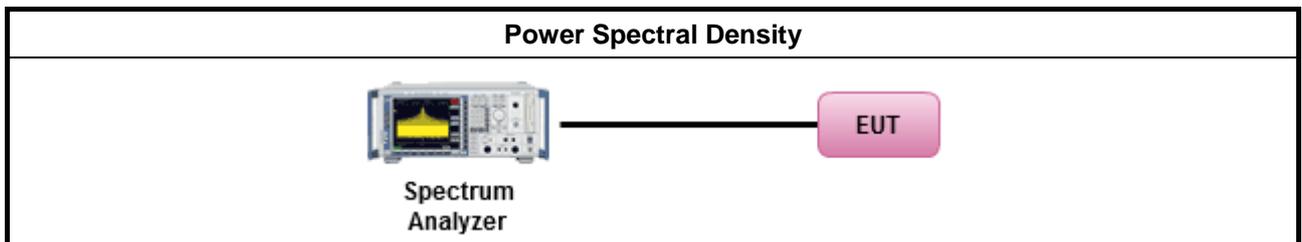
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	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:
<input type="checkbox"/>	Refer as FCC KDB 789033, F5) 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]
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain port 3.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$
<input type="checkbox"/>	Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.

3.4.4 Test Setup



3.4.5 Directional Gain for Power Spectral Density Measurement

Directional Gain (DG) Result					
Transmit Chains No.		1	-	-	-
Maximum G _{ANT} (dBi)		5.40	-	-	-
Modulation Mode	DG (dBi)	N _{TX}	N _{SS} (Min.)	STBC	Array Gain (dB)
11a,6-54Mbps	5.40	1	1	-	-
HT20,M0-7	5.40	1	1	-	-
HT40,M0-7	5.40	1	1	-	-
VHT20,M0-8	5.40	1	1	-	-
VHT40,M0-9	5.40	1	1		
VHT80,M0-9	5.40	1	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}

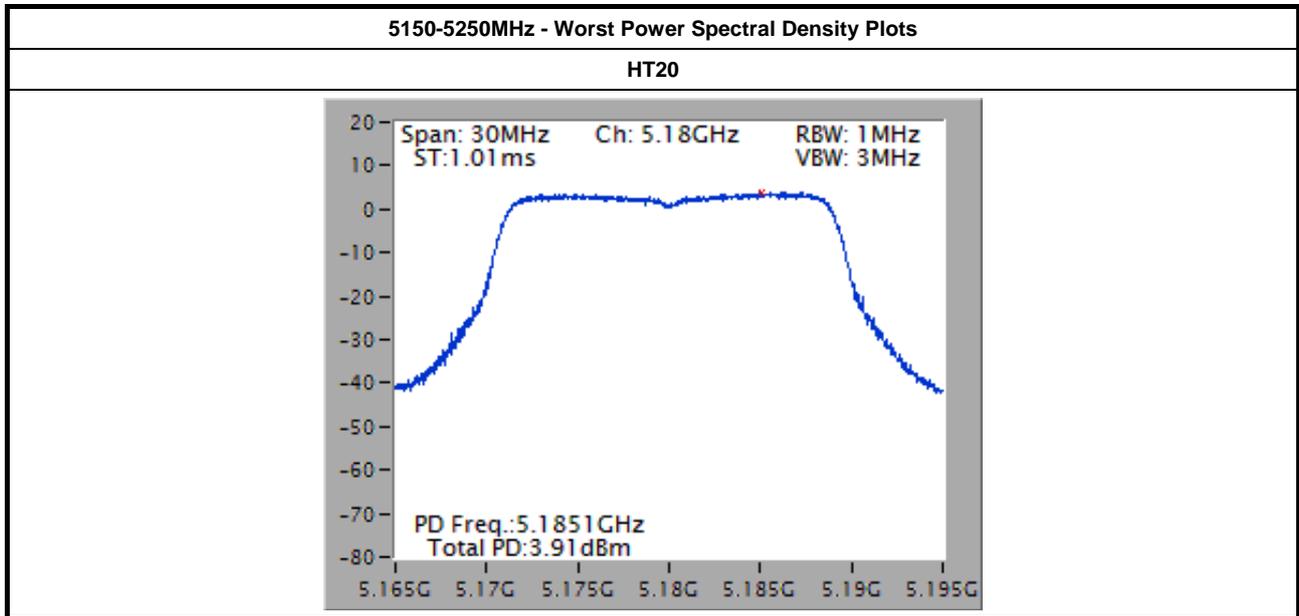
Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = 10 log[(10^{G₁/20} + ... + 10^{G_N/20})² / N_{TX}]
All transmit signals are completely uncorrelated, Directional Gain = 10 log[(10^{G₁/10} + ... + 10^{G_N/10}) / N_{TX}]

Note 3: For Spatial Multiplexing, Directional Gain (DG) = G_{ANT} + 10 log(N_{TX}/N_{SS}),
where N_{SS} = 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 (5150-5250MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5180	3.70	4.00	5.40	9.10	10.00
11a	1	5200	3.71	4.00	5.40	9.11	10.00
11a	1	5240	3.47	4.00	5.40	8.87	10.00
HT20,M0-7	1	5180	3.91	4.00	5.40	9.31	10.00
HT20,M0-7	1	5200	3.78	4.00	5.40	9.18	10.00
HT20,M0-7	1	5240	3.03	4.00	5.40	8.43	10.00
HT40,M0-7	1	5190	0.57	4.00	5.40	5.97	10.00
HT40,M0-7	1	5230	1.95	4.00	5.40	7.35	10.00
VHT20,M0-8	1	5180	3.45	4.00	5.40	8.85	10.00
VHT20,M0-8	1	5200	3.67	4.00	5.40	9.07	10.00
VHT20,M0-8	1	5240	3.11	4.00	5.40	8.51	10.00
VHT40,M0-9	1	5190	0.49	4.00	5.40	5.89	10.00
VHT40,M0-9	1	5230	1.93	4.00	5.40	7.33	10.00
VHT80,M0-9	1	5210	-0.68	4.00	5.40	4.72	10.00
Result			Complied				



3.5 Peak Excursion

3.5.1 Peak Excursion Limit

Peak Excursion Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	N/A

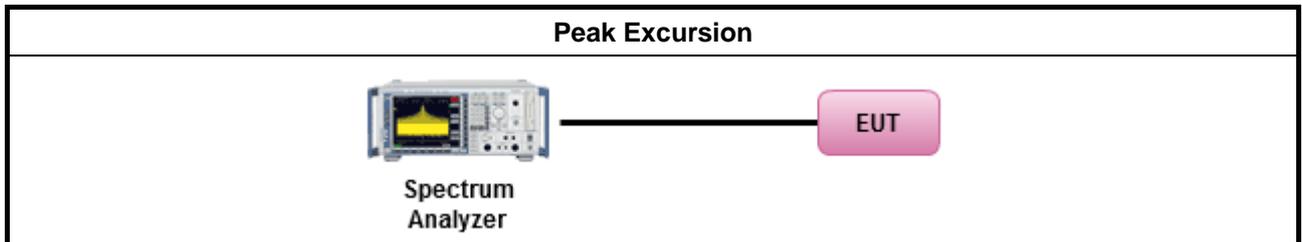
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause G peak excursion method.
<input checked="" type="checkbox"/>	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	Testing a single output port is sufficient to demonstrate compliance with the peak excursion.

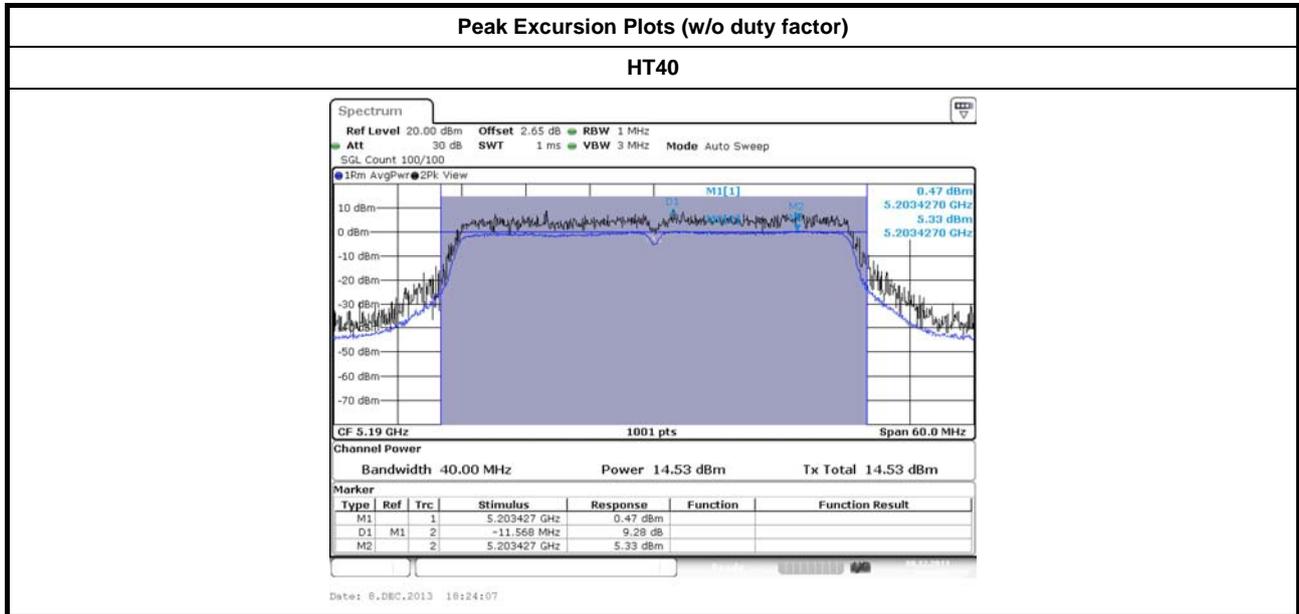
3.5.4 Test Setup





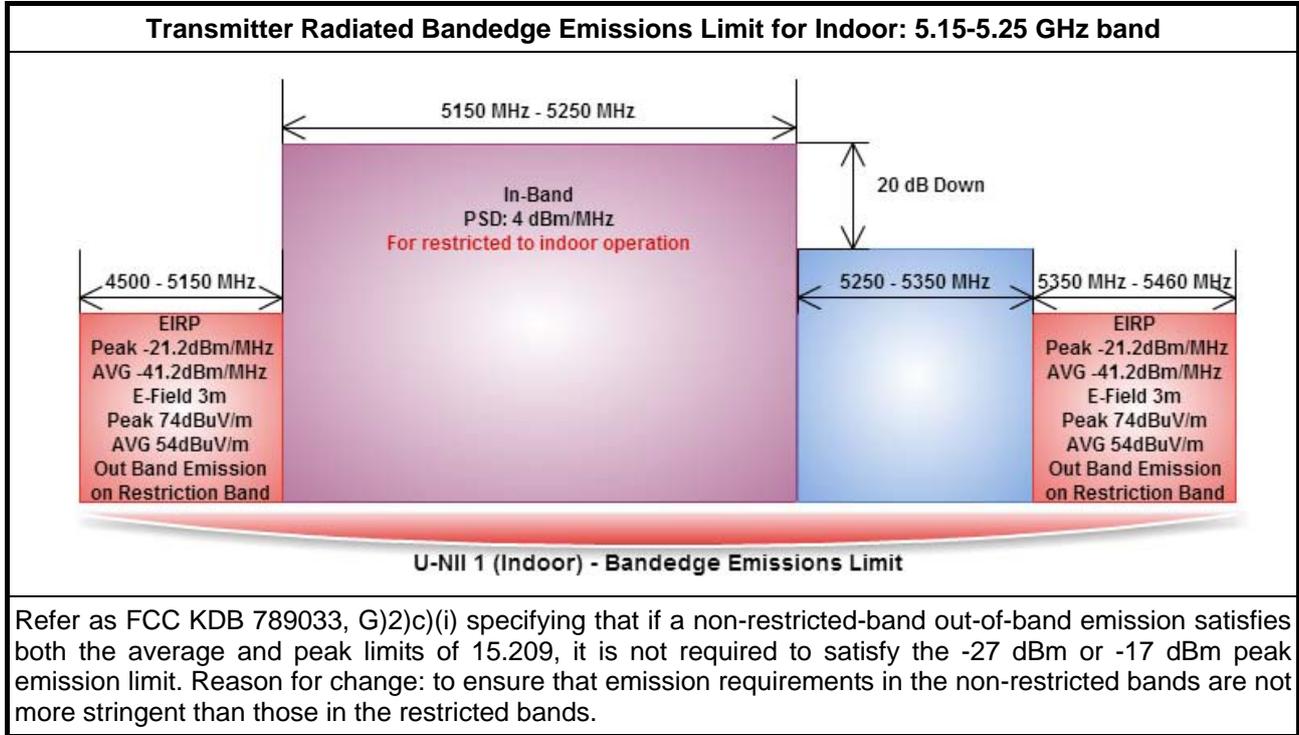
3.5.5 Test Result of Peak Excursion

UNII Peak Excursion Result								
Condition			Peak Excursion (dB)					
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	256QAM	Limit
11a	1	5180	6.69	7.82	7.27	8.10	-	13.0
HT20,M0-7	1	5180	7.12	7.84	7.91	7.83	-	13.0
HT40,M0-7	1	5190	7.37	8.19	8.28	9.28	-	13.0
VHT20,M0-8	1	5180	7.60	7.87	8.13	7.71	8.36	13.0
VHT40,M0-9	1	5190	7.55	7.42	7.98	8.40	7.51	13.0
VHT80,M0-9	1	5210	7.52	6.52	7.67	7.44	7.26	13.0
Result			Complied					



3.6 Transmitter Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit



3.6.2 Measuring Instruments

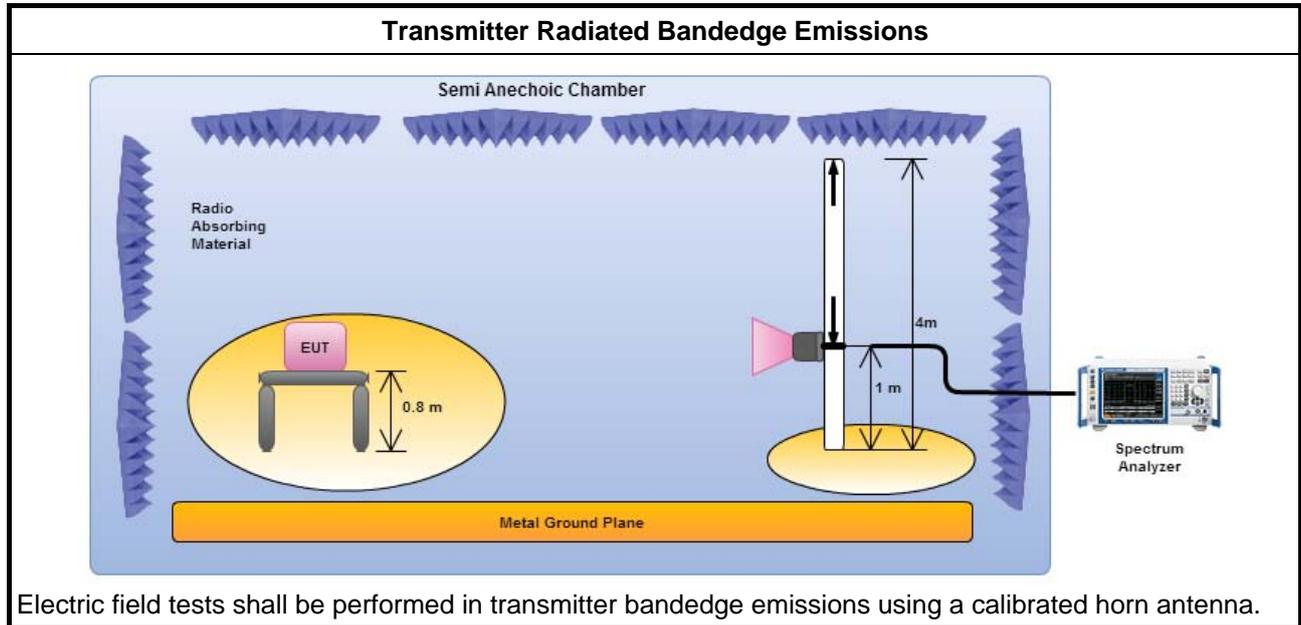
Refer a test equipment and calibration data table in this test report.



3.6.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.)
<input type="checkbox"/>	Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).
<input type="checkbox"/>	Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
<input type="checkbox"/>	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)
<input type="checkbox"/>	Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).
<input type="checkbox"/>	Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
<input checked="" type="checkbox"/>	For the transmitter bandedge emissions shall be measured using following options below:
<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
<input checked="" type="checkbox"/>	For radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 1m.
<input checked="" type="checkbox"/>	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 1m, because the instrumentation noise floor is typically close to the radiated emission limit.

3.6.4 Test Setup



3.6.5 Transmitter Radiated Bandedge Emissions (with Antenna)

U-NII 5150-5250MHz Transmitter Radiated Bandedge (with Antenna) - Mode 1										
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	5180	1	5146.500	76.74	83.54	5150.000	61.82	63.54	V
11a	1	5240	1	5116.200	68.07	83.54	5112.900	55.43	63.54	V
HT20,M0-7	1	5180	1	5145.300	77.76	83.54	5150.000	62.01	63.54	V
HT20,M0-7	1	5240	1	5117.400	68.14	83.54	5119.800	56.10	63.54	V
HT40,M0-7	1	5190	1	5146.200	77.68	83.54	5150.000	61.04	63.54	V
HT40,M0-7	1	5230	1	5139.300	70.48	83.54	5150.000	56.59	63.54	V
VHT20,M0-8	1	5180	1	5145.000	76.83	83.54	5150.000	61.79	63.54	V
VHT20,M0-8	1	5240	1	5112.600	68.66	83.54	5119.800	56.17	63.54	V
VHT40,M0-9	1	5190	1	5146.200	79.78	83.54	5150.000	62.47	63.54	V
VHT40,M0-9	1	5230	1	5136.600	70.13	83.54	5150.000	56.28	63.54	V
VHT80,M0-9	1	5210	1	5148.900	74.71	83.54	5144.100	58.86	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.

U-NII 5150-5250MHz Transmitter Radiated Bandedge (with Antenna) - Mode 2										
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	5180	1	5147.700	70.46	83.54	5150.000	56.97	63.54	V
11a	1	5240	1	5127.000	68.41	83.54	5123.640	55.81	63.54	V
HT20,M0-7	1	5180	1	5147.700	72.70	83.54	5105.400	56.71	63.54	V
HT20,M0-7	1	5240	1	5115.120	69.61	83.54	5119.440	55.07	63.54	V
HT40,M0-7	1	5190	1	5146.200	70.20	83.54	5150.000	56.91	63.54	V
HT40,M0-7	1	5230	1	5114.040	68.81	83.54	5124.120	55.49	63.54	V
VHT20,M0-8	1	5180	1	5149.800	72.87	83.54	5150.000	56.39	63.54	V
VHT20,M0-8	1	5240	1	5120.880	66.93	83.54	5124.120	54.99	63.54	V
VHT40,M0-9	1	5190	1	5146.200	69.93	83.54	5150.000	56.78	63.54	V
VHT40,M0-9	1	5230	1	5113.680	67.90	83.54	5124.120	55.33	63.54	V
VHT80,M0-9	1	5210	1	5150.040	71.69	83.54	5145.360	57.66	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.

3.7 Transmitter 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).

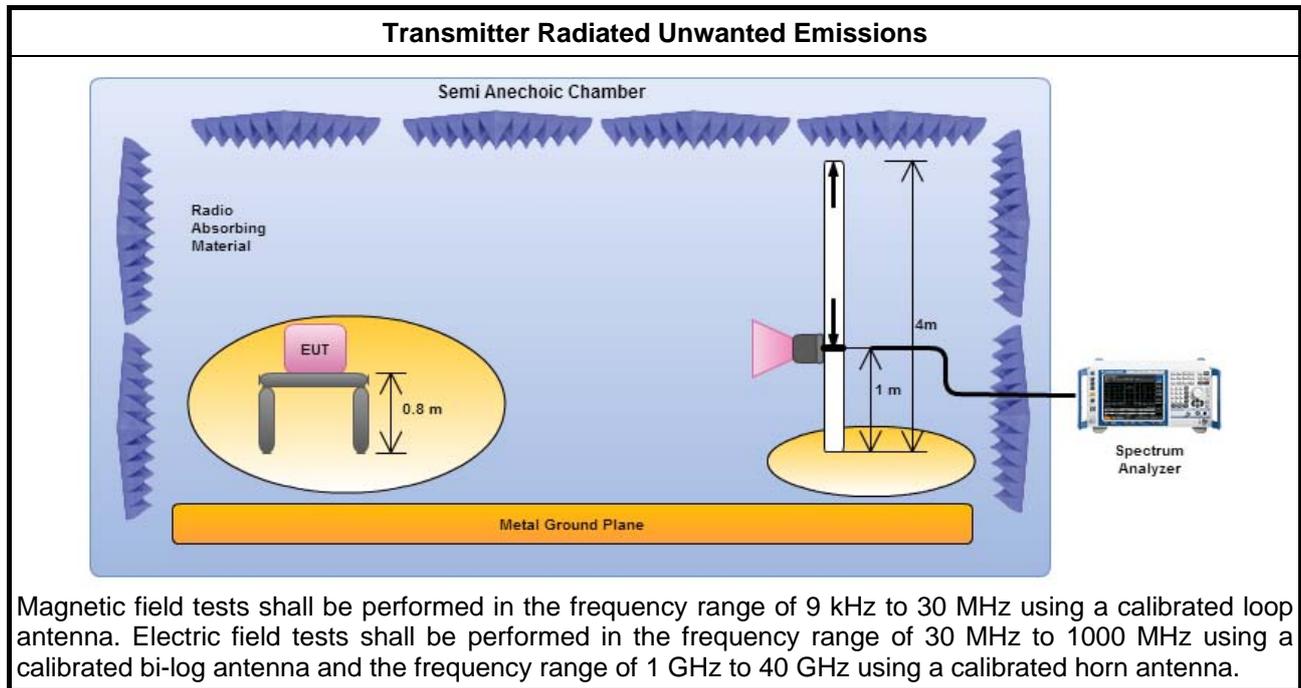
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	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).
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
<input checked="" type="checkbox"/>	For radiated measurement.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m, above 5GHz and test distance is 1m.
<input checked="" type="checkbox"/>	The any unwanted emissions level shall not exceed the fundamental emission level.
<input checked="" type="checkbox"/>	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

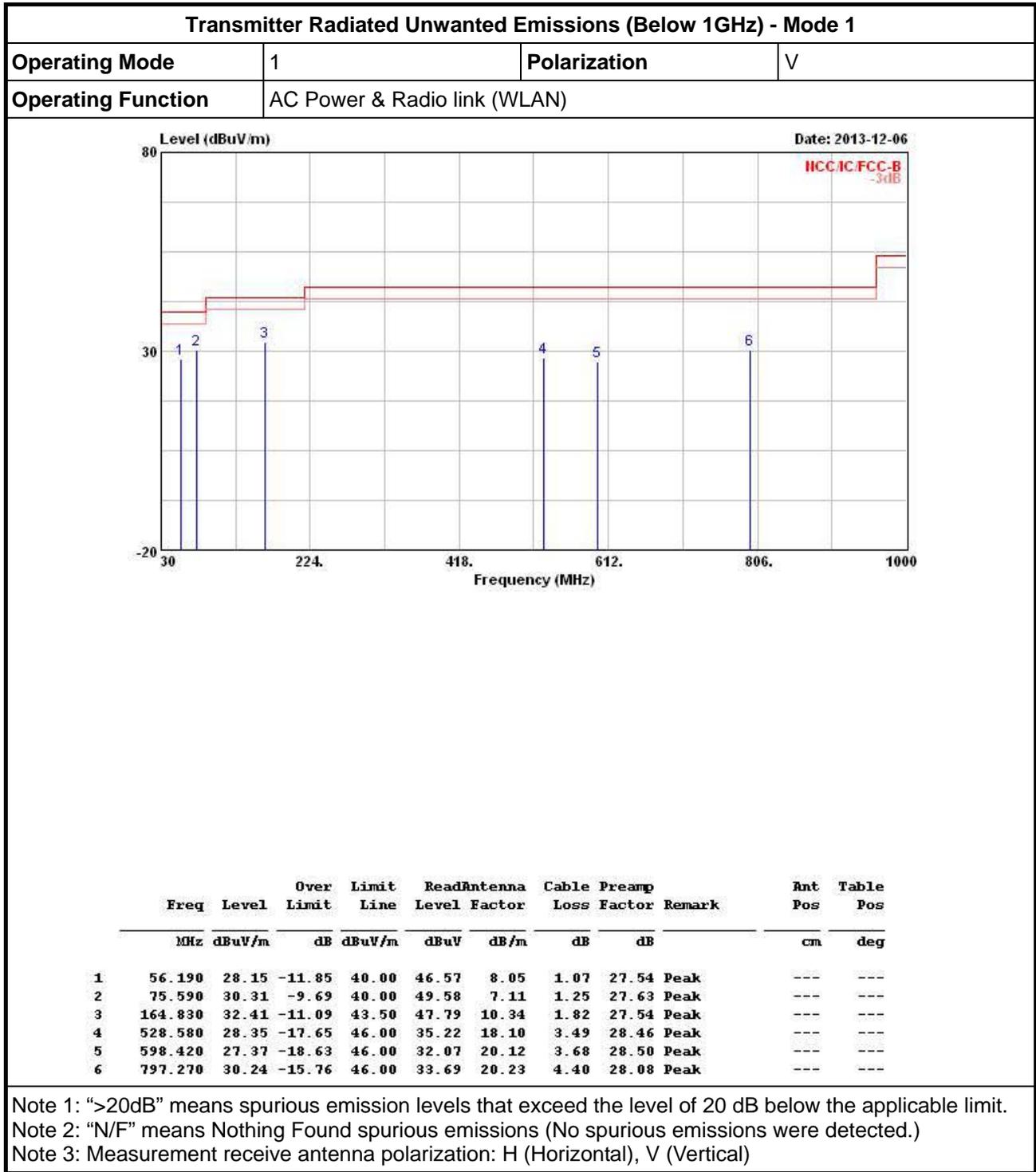
3.7.4 Test Setup



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.

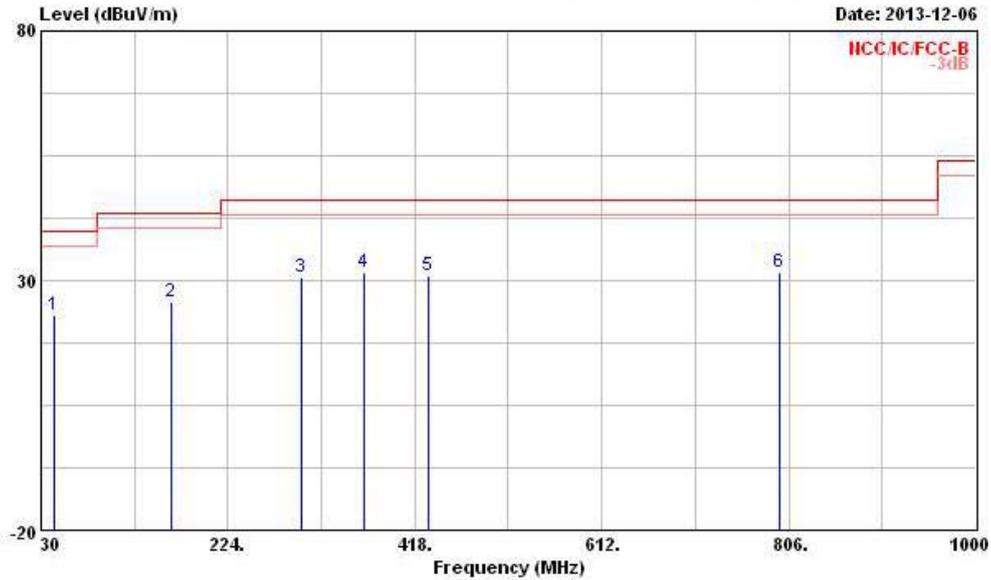
3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)





Transmitter Radiated Unwanted Emissions (Below 1GHz) - Mode 1

Operating Mode	1	Polarization	H
Operating Function	AC Power & Radio link (WLAN)		



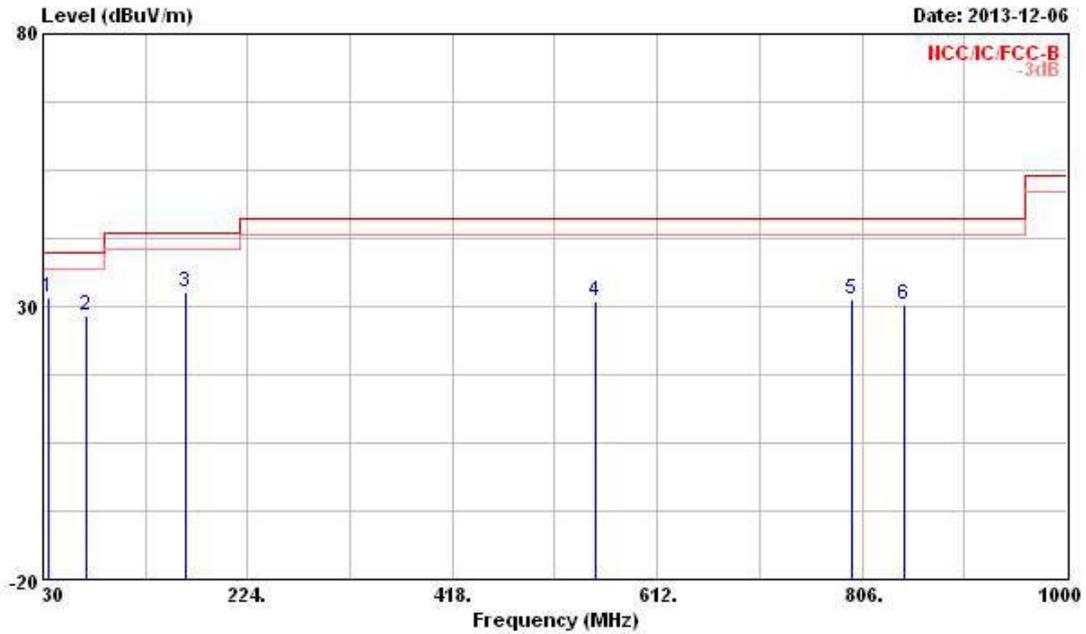
Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	43.580	23.05	-16.95	40.00	37.47	12.27	0.91	27.60 Peak	---	---
2	164.830	25.60	-17.90	43.50	40.98	10.34	1.82	27.54 Peak	---	---
3	299.660	30.76	-15.24	46.00	41.66	13.70	2.55	27.15 Peak	---	---
4	365.620	31.57	-14.43	46.00	41.63	14.72	2.87	27.65 Peak	---	---
5	431.580	30.99	-15.01	46.00	40.06	15.90	3.10	28.07 Peak	---	---
6	797.270	31.60	-14.40	46.00	35.05	20.23	4.40	28.08 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) - Mode 2

Operating Mode	2	Polarization	V
Operating Function	AC Power & Radio link (WLAN)		



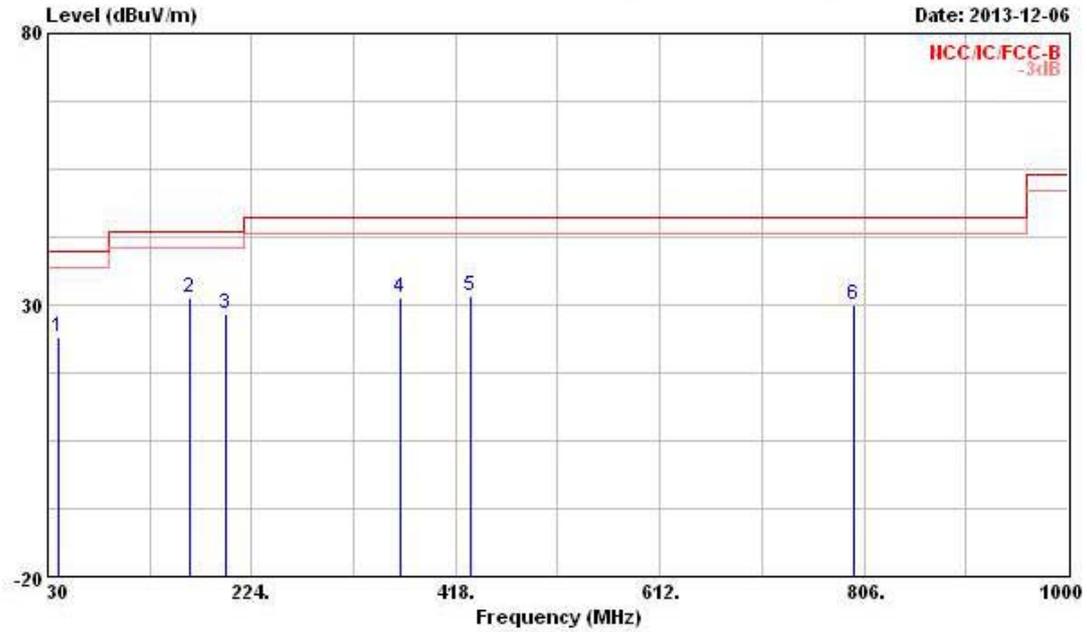
Line	Freq MHz	Level dBuV/m	Over Limit dB	Limit Line dBuV/m	ReadAntenna Level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Remark	Ant Pos cm	Table Pos deg
1	35.820	31.78	-8.22	40.00	43.09	15.59	0.82	27.72	Peak	---	---
2	71.710	28.26	-11.74	40.00	48.21	6.46	1.20	27.61	Peak	---	---
3	164.830	32.77	-10.73	43.50	48.54	9.95	1.82	27.54	Peak	---	---
4	552.830	31.15	-14.85	46.00	37.27	18.79	3.56	28.47	Peak	---	---
5	797.270	31.42	-14.58	46.00	35.17	19.93	4.40	28.08	Peak	---	---
6	846.740	30.39	-15.61	46.00	33.48	20.33	4.51	27.93	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) - Mode 2

Operating Mode	2	Polarization	H
Operating Function	AC Power & Radio link (WLAN)		



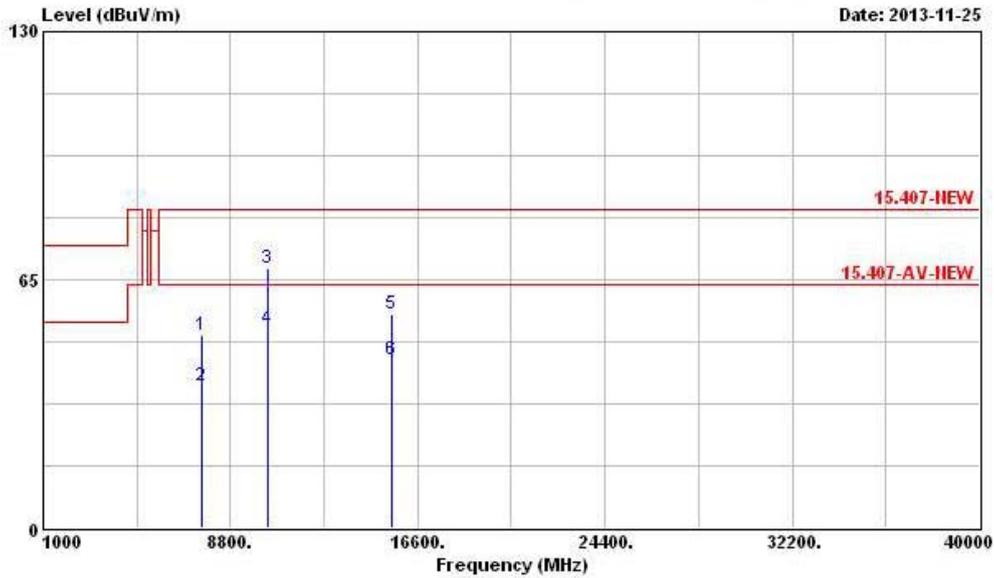
Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	40.670	-15.77	40.00	38.56	12.43	0.88	27.64	Peak	---	---
2	164.830	-12.31	43.50	46.96	9.95	1.82	27.54	Peak	---	---
3	198.780	-15.22	43.50	44.33	9.32	2.06	27.43	Peak	---	---
4	365.620	-14.69	46.00	41.21	14.88	2.87	27.65	Peak	---	---
5	431.580	-14.46	46.00	39.79	16.72	3.10	28.07	Peak	---	---
6	796.300	-16.14	46.00	33.60	19.94	4.40	28.08	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 5150-5250MHz

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1			
Modulation Mode	11a	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V



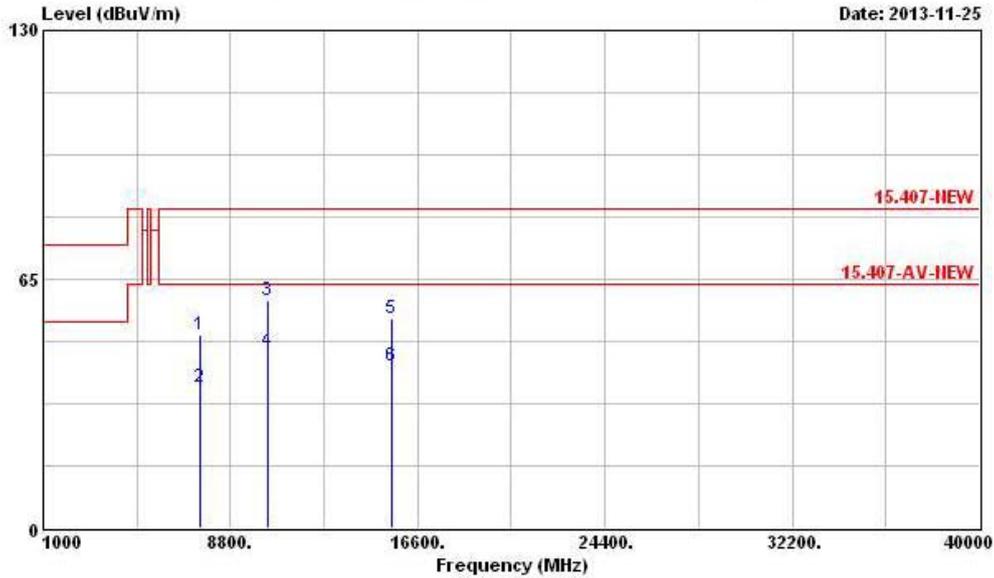
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	50.58	-32.96	83.54	42.48	37.52	5.61	35.03	Peak	---	---
2	7620.000	37.18	-26.36	63.54	29.08	37.52	5.61	35.03	Average	---	---
3	10360.000	67.85	-15.69	83.54	58.01	38.51	6.38	35.05	Peak	---	---
4	10360.000	52.34	-11.20	63.54	42.50	38.51	6.38	35.05	Average	---	---
5	15540.000	55.93	-27.61	83.54	44.70	38.07	7.99	34.83	Peak	---	---
6	15540.000	44.23	-19.31	63.54	33.00	38.07	7.99	34.83	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.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	H



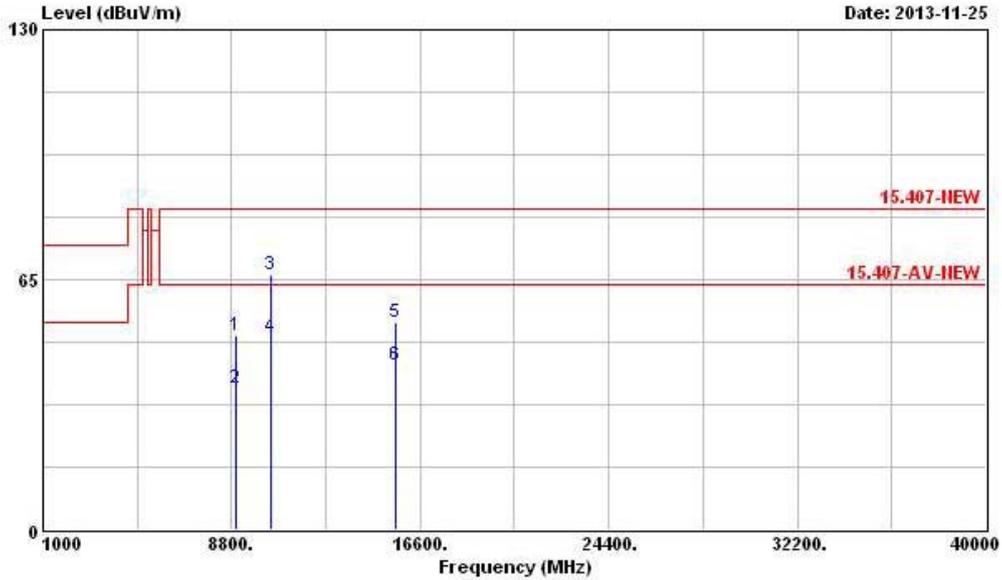
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	50.42	-33.12	83.54	42.24	37.51	5.68	35.01	Peak	---	---
2	7550.000	36.96	-26.58	63.54	28.78	37.51	5.68	35.01	Average	---	---
3	10360.000	59.40	-24.14	83.54	49.56	38.51	6.38	35.05	Peak	---	---
4	10360.000	46.26	-17.28	63.54	36.42	38.51	6.38	35.05	Average	---	---
5	15540.000	54.84	-28.70	83.54	43.61	38.07	7.99	34.83	Peak	---	---
6	15540.000	42.48	-21.06	63.54	31.25	38.07	7.99	34.83	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	V



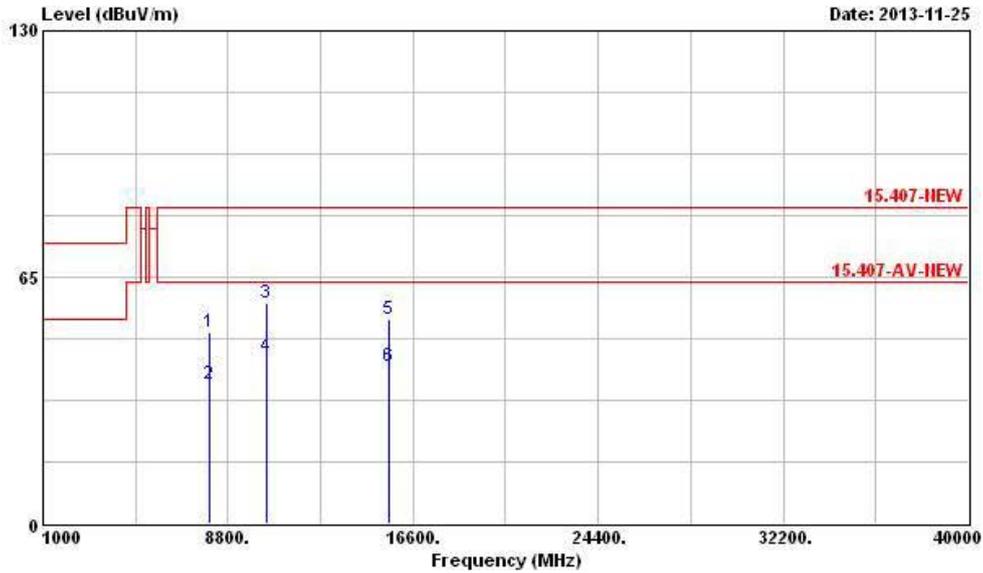
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8980.000	50.61	-32.93	83.54	41.57	38.25	5.98	35.19	Peak	---	---
2	8980.000	36.69	-26.85	63.54	27.65	38.25	5.98	35.19	Average	---	---
3	10400.000	66.14	-17.40	83.54	56.31	38.48	6.35	35.00	Peak	---	---
4	10400.000	50.07	-13.47	63.54	40.24	38.48	6.35	35.00	Average	---	---
5	15600.000	53.94	-29.60	83.54	42.90	38.00	7.96	34.92	Peak	---	---
6	15600.000	42.97	-20.57	63.54	31.93	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H

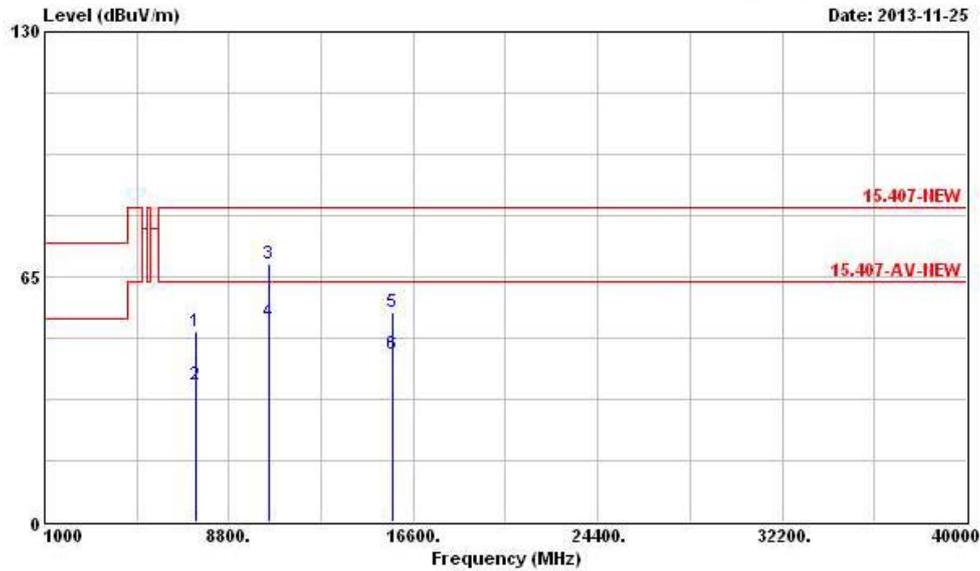


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8030.000	50.45	-33.09	83.54	42.69	37.60	5.32	35.16	Peak	---	---
2	8030.000	36.76	-26.78	63.54	29.00	37.60	5.32	35.16	Average	---	---
3	10400.000	58.06	-25.48	83.54	48.23	38.48	6.35	35.00	Peak	---	---
4	10400.000	44.08	-19.46	63.54	34.25	38.48	6.35	35.00	Average	---	---
5	15600.000	53.69	-29.85	83.54	42.65	38.00	7.96	34.92	Peak	---	---
6	15600.000	41.61	-21.93	63.54	30.57	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	V

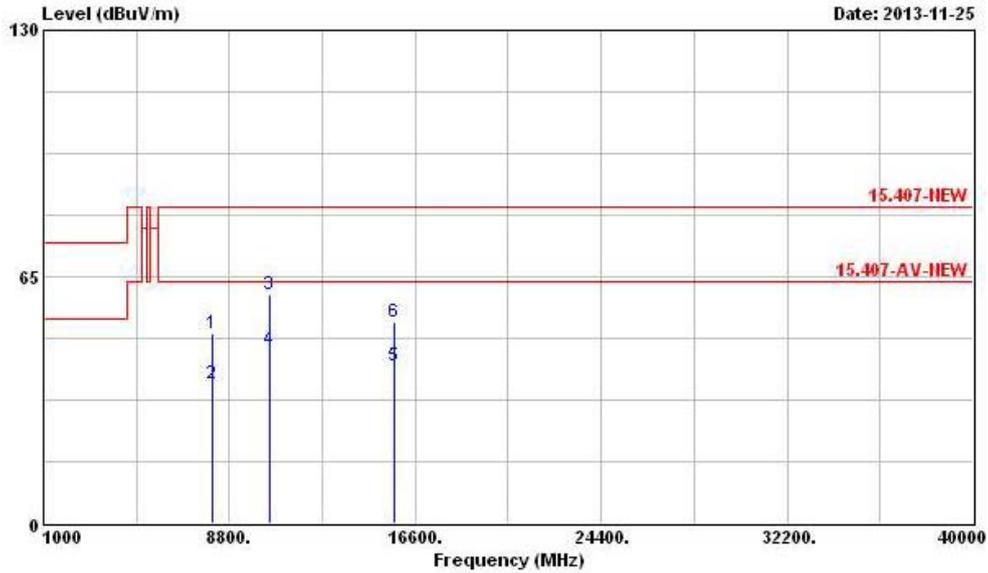


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7380.000	50.51	-33.03	83.54	42.70	37.21	5.57	34.97	Peak	---	---
2	7380.000	36.33	-27.21	63.54	28.52	37.21	5.57	34.97	Average	---	---
3	10480.000	68.46	-15.08	83.54	58.68	38.41	6.30	34.93	Peak	---	---
4	10480.000	52.93	-10.61	63.54	43.15	38.41	6.30	34.93	Average	---	---
5	15720.000	55.38	-28.16	83.54	44.67	37.88	7.86	35.03	Peak	---	---
6	15720.000	44.35	-19.19	63.54	33.64	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	H

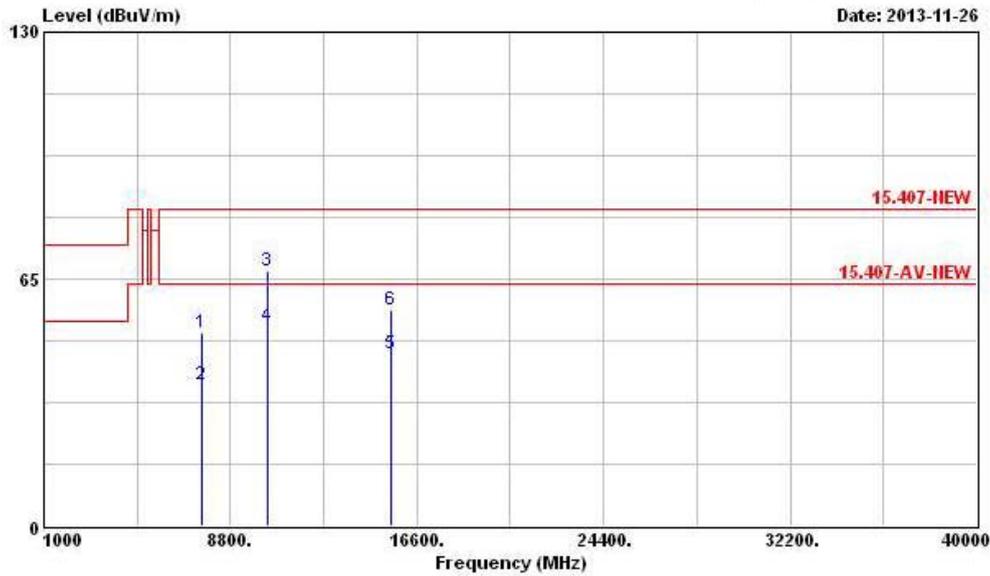


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Gain	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8060.000	49.92	-33.62	83.54	42.14	37.60	5.33	35.15	Peak	---	---
2	8060.000	36.65	-26.89	63.54	28.87	37.60	5.33	35.15	Average	---	---
3	10480.000	60.15	-23.39	83.54	50.37	38.41	6.30	34.93	Peak	---	---
4	10480.000	45.86	-17.68	63.54	36.08	38.41	6.30	34.93	Average	---	---
5	15720.000	41.31	-22.23	63.54	30.60	37.88	7.86	35.03	Average	---	---
6	15720.000	52.84	-30.70	83.54	42.13	37.88	7.86	35.03	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V



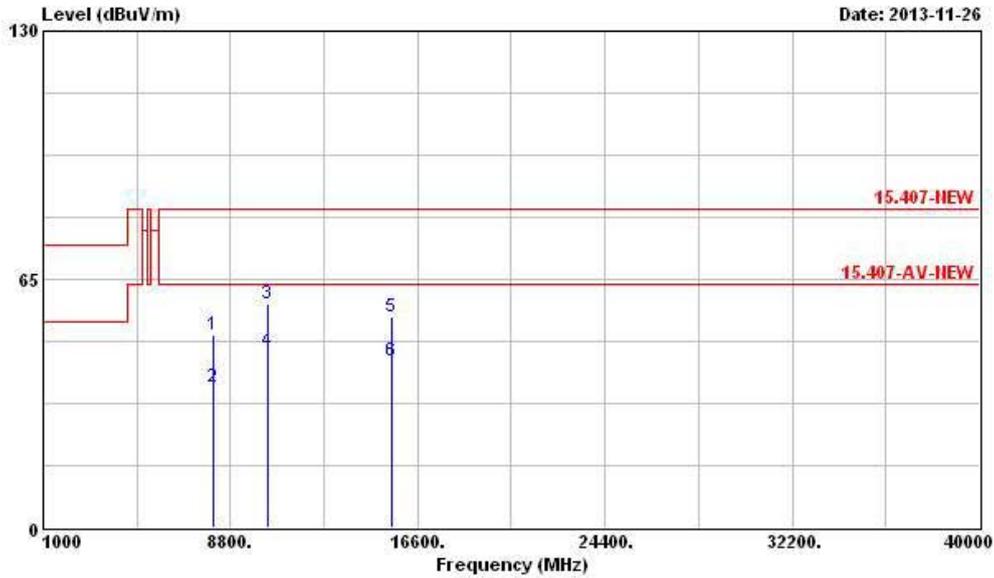
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	50.78	-32.76	83.54	42.68	37.52	5.61	35.03	Peak	---	---
2	7620.000	37.36	-26.18	63.54	29.26	37.52	5.61	35.03	Average	---	---
3	10360.000	67.29	-16.25	83.54	57.45	38.51	6.38	35.05	Peak	---	---
4	10360.000	52.48	-11.06	63.54	42.64	38.51	6.38	35.05	Average	---	---
5	15540.000	45.52	-18.02	63.54	34.29	38.07	7.99	34.83	Average	---	---
6	15540.000	56.78	-26.76	83.54	45.55	38.07	7.99	34.83	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)
 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.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	H



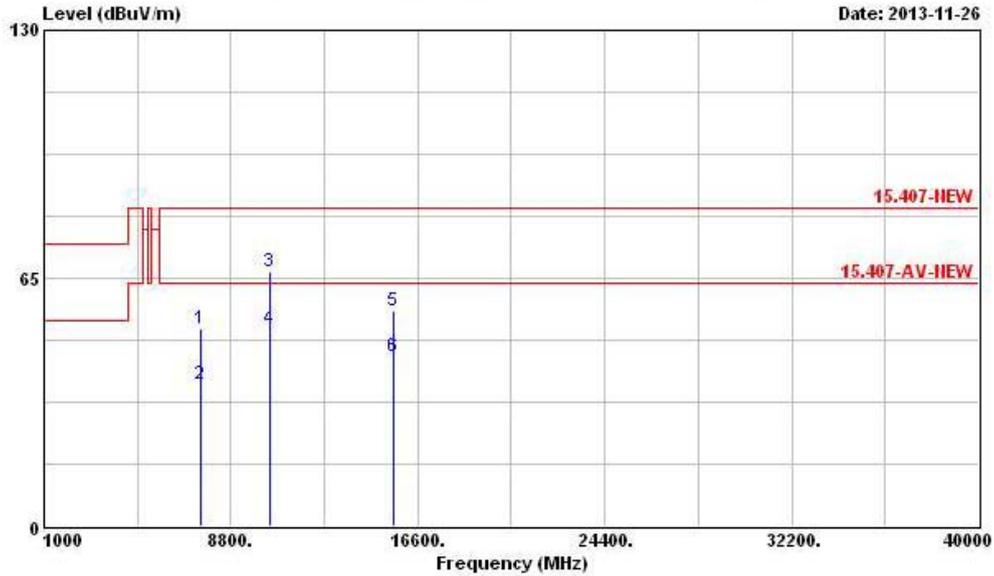
Line	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB		cm	deg
1	8100.000	50.63	-32.91	83.54	42.83	37.60	5.35	35.15 Peak	---	---
2	8100.000	36.87	-26.67	63.54	29.07	37.60	5.35	35.15 Average	---	---
3	10360.000	58.49	-25.05	83.54	48.65	38.51	6.38	35.05 Peak	---	---
4	10360.000	46.08	-17.46	63.54	36.24	38.51	6.38	35.05 Average	---	---
5	15540.000	55.22	-28.32	83.54	43.99	38.07	7.99	34.83 Peak	---	---
6	15540.000	43.49	-20.05	63.54	32.26	38.07	7.99	34.83 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	V

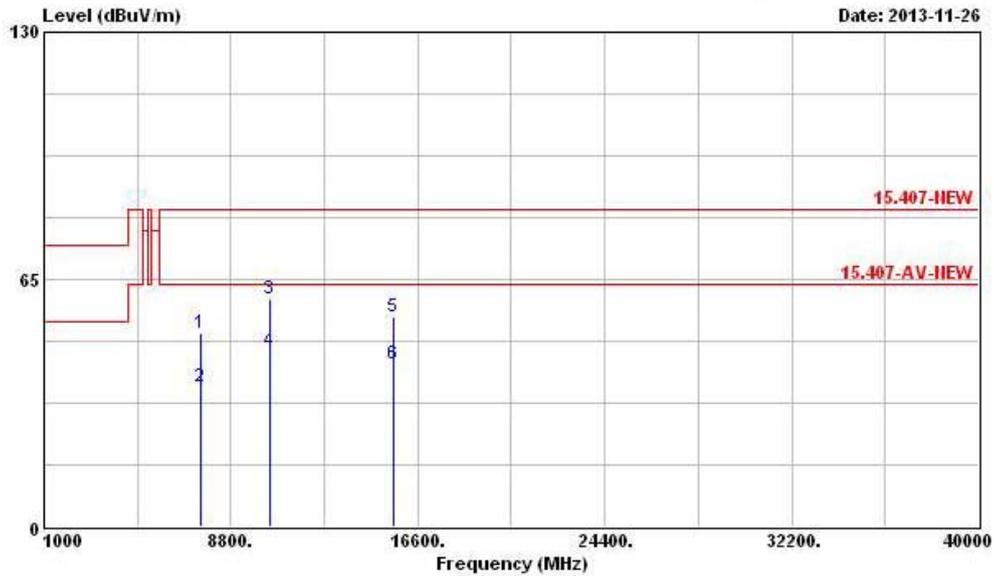


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	51.73	-31.81	83.54	43.55	37.51	5.68	35.01	Peak	---	---
2	7550.000	37.03	-26.51	63.54	28.85	37.51	5.68	35.01	Average	---	---
3	10400.000	66.81	-16.73	83.54	56.98	38.48	6.35	35.00	Peak	---	---
4	10400.000	51.83	-11.71	63.54	42.00	38.48	6.35	35.00	Average	---	---
5	15600.000	56.35	-27.19	83.54	45.31	38.00	7.96	34.92	Peak	---	---
6	15600.000	44.49	-19.05	63.54	33.45	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H



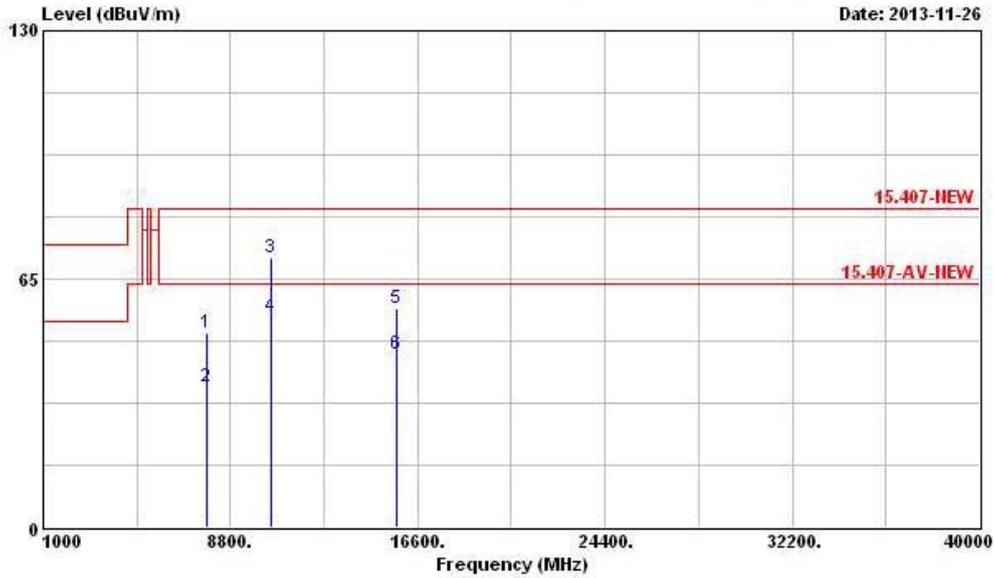
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Gain	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7540.000	50.87	-32.67	83.54	42.68	37.51	5.68	35.00	Peak	---	---
2	7540.000	36.93	-26.61	63.54	28.74	37.51	5.68	35.00	Average	---	---
3	10400.000	59.98	-23.56	83.54	50.15	38.48	6.35	35.00	Peak	---	---
4	10400.000	46.15	-17.39	63.54	36.32	38.48	6.35	35.00	Average	---	---
5	15600.000	55.00	-28.54	83.54	43.96	38.00	7.96	34.92	Peak	---	---
6	15600.000	42.75	-20.79	63.54	31.71	38.00	7.96	34.92	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.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	V

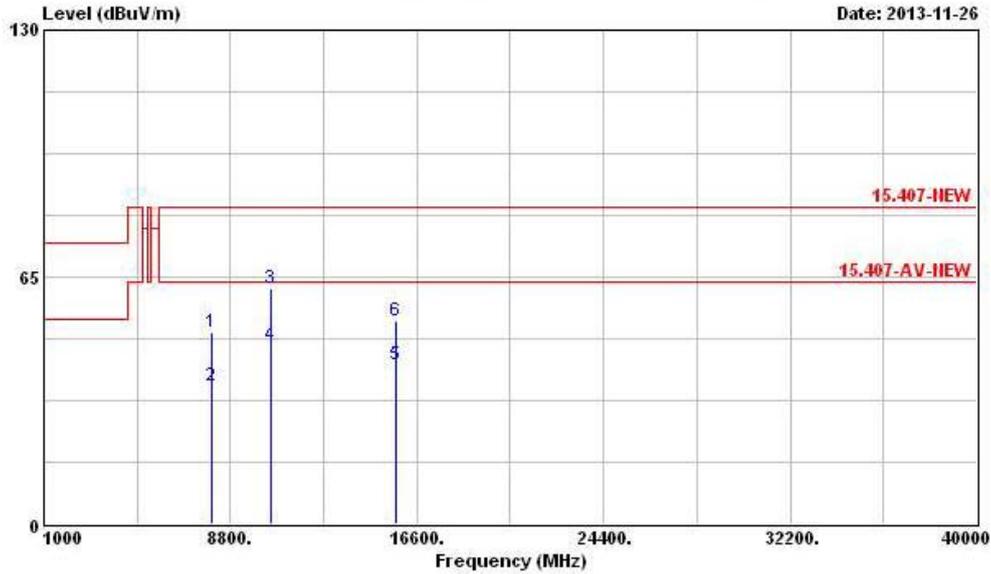


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7790.000	50.94	-32.60	83.54	42.98	37.56	5.48	35.08	Peak	---	---
2	7790.000	36.57	-26.97	63.54	28.61	37.56	5.48	35.08	Average	---	---
3	10480.000	70.48	-13.06	83.54	60.70	38.41	6.30	34.93	Peak	---	---
4	10480.000	54.99	-8.55	63.54	45.21	38.41	6.30	34.93	Average	---	---
5	15720.000	57.27	-26.27	83.54	46.56	37.88	7.86	35.03	Peak	---	---
6	15720.000	45.30	-18.24	63.54	34.59	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	H



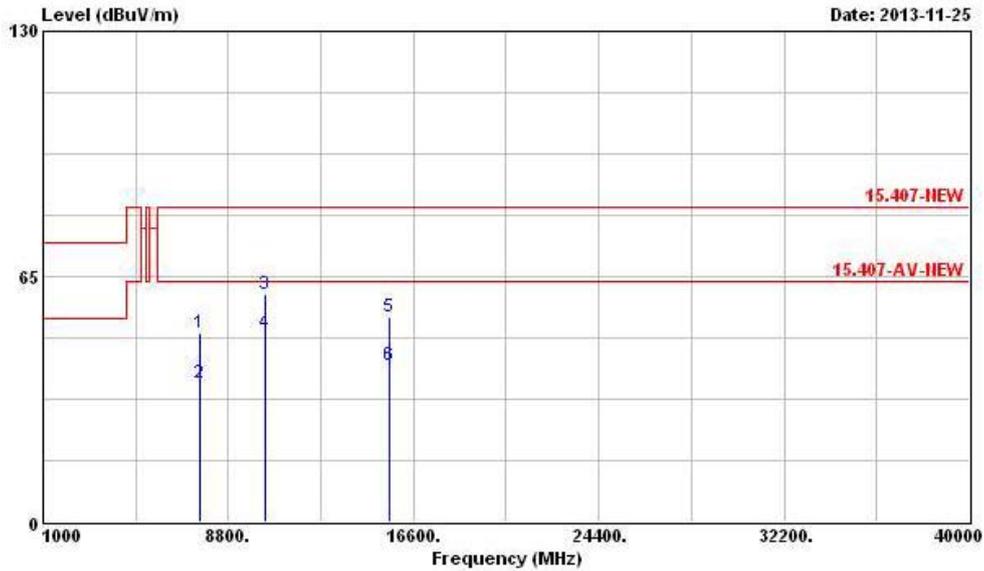
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Gain	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8030.000	50.40	-33.14	83.54	42.64	37.60	5.32	35.16	Peak	---	---
2	8030.000	36.56	-26.98	63.54	28.80	37.60	5.32	35.16	Average	---	---
3	10480.000	61.82	-21.72	83.54	52.04	38.41	6.30	34.93	Peak	---	---
4	10480.000	47.23	-16.31	63.54	37.45	38.41	6.30	34.93	Average	---	---
5	15720.000	41.82	-21.72	63.54	31.11	37.88	7.86	35.03	Average	---	---
6	15720.000	53.50	-30.04	83.54	42.79	37.88	7.86	35.03	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	V

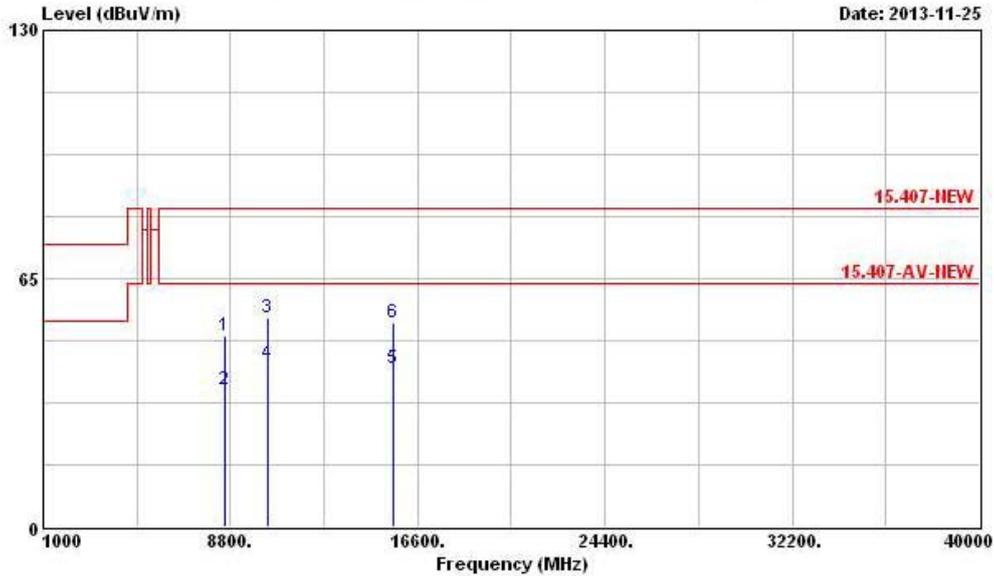


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7605.000	49.94	-33.60	83.54	41.80	37.52	5.64	35.02	Peak	---	---
2	7605.000	36.76	-26.78	63.54	28.62	37.52	5.64	35.02	Average	---	---
3	10380.000	60.50	-23.04	83.54	50.69	38.49	6.35	35.03	Peak	---	---
4	10380.000	49.83	-13.71	63.54	40.02	38.49	6.35	35.03	Average	---	---
5	15570.000	54.38	-29.16	83.54	43.25	38.03	7.96	34.86	Peak	---	---
6	15570.000	41.63	-21.91	63.54	30.50	38.03	7.96	34.86	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	H



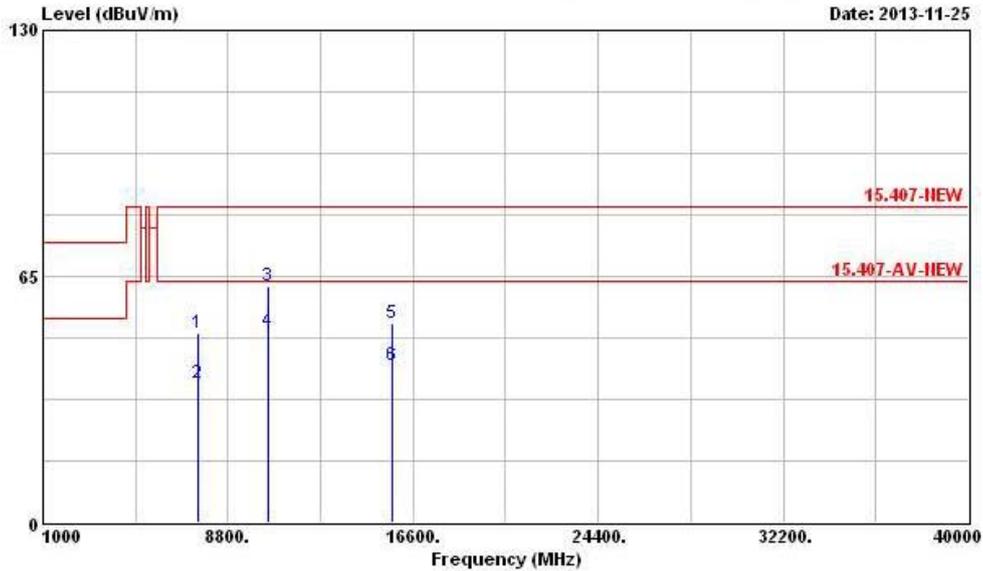
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8562.000	50.13	-33.41	83.54	42.01	37.69	5.54	35.11	Peak	---	---
2	8562.000	36.08	-27.46	63.54	27.96	37.69	5.54	35.11	Average	---	---
3	10380.000	54.78	-28.76	83.54	44.97	38.49	6.35	35.03	Peak	---	---
4	10380.000	42.85	-20.69	63.54	33.04	38.49	6.35	35.03	Average	---	---
5	15570.000	41.40	-22.14	63.54	30.27	38.03	7.96	34.86	Average	---	---
6	15570.000	53.42	-30.12	83.54	42.29	38.03	7.96	34.86	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	V

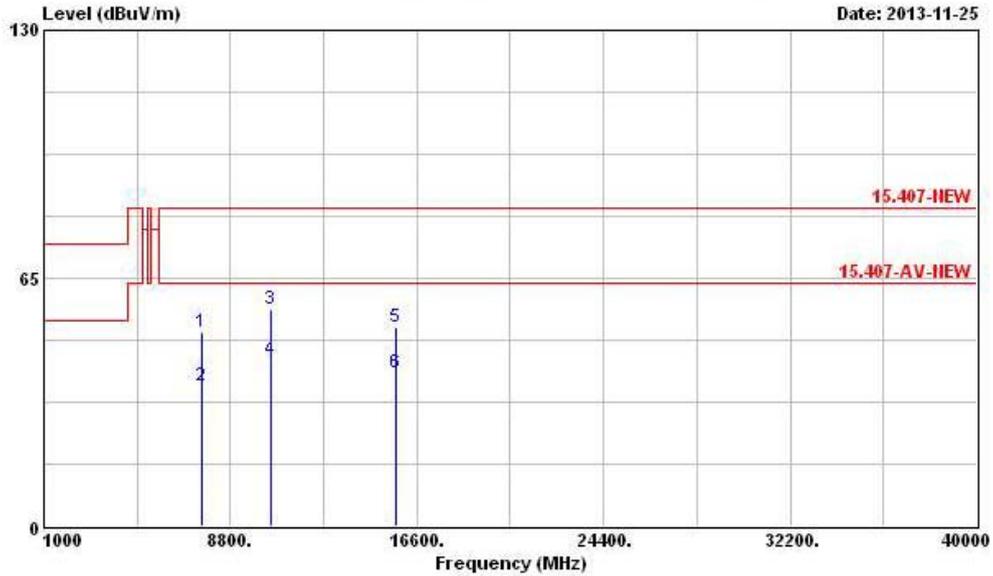


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7540.000	50.12	-33.42	83.54	41.93	37.51	5.68	35.00	Peak	---	---
2	7540.000	36.79	-26.75	63.54	28.60	37.51	5.68	35.00	Average	---	---
3	10460.000	62.29	-21.25	83.54	52.51	38.44	6.30	34.96	Peak	---	---
4	10460.000	50.65	-12.89	63.54	40.87	38.44	6.30	34.96	Average	---	---
5	15690.000	52.76	-30.78	83.54	41.99	37.91	7.86	35.00	Peak	---	---
6	15690.000	41.61	-21.93	63.54	30.84	37.91	7.86	35.00	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	H



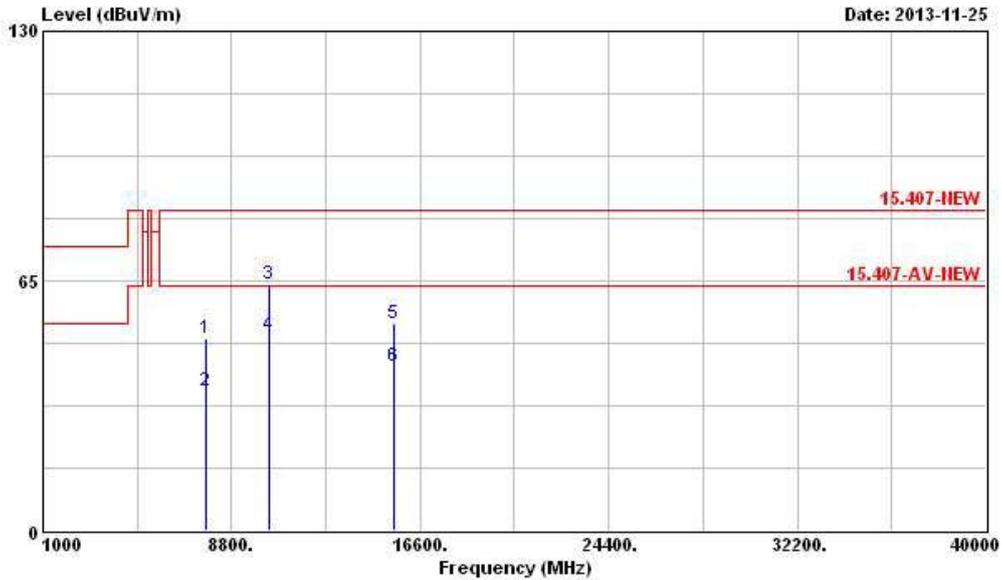
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	50.74	-32.80	83.54	42.64	37.52	5.61	35.03	Peak	---	---
2	7620.000	36.85	-26.69	63.54	28.75	37.52	5.61	35.03	Average	---	---
3	10460.000	56.83	-26.71	83.54	47.05	38.44	6.30	34.96	Peak	---	---
4	10460.000	43.55	-19.99	63.54	33.77	38.44	6.30	34.96	Average	---	---
5	15690.000	52.29	-31.25	83.54	41.52	37.91	7.86	35.00	Peak	---	---
6	15690.000	40.10	-23.44	63.54	29.33	37.91	7.86	35.00	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V

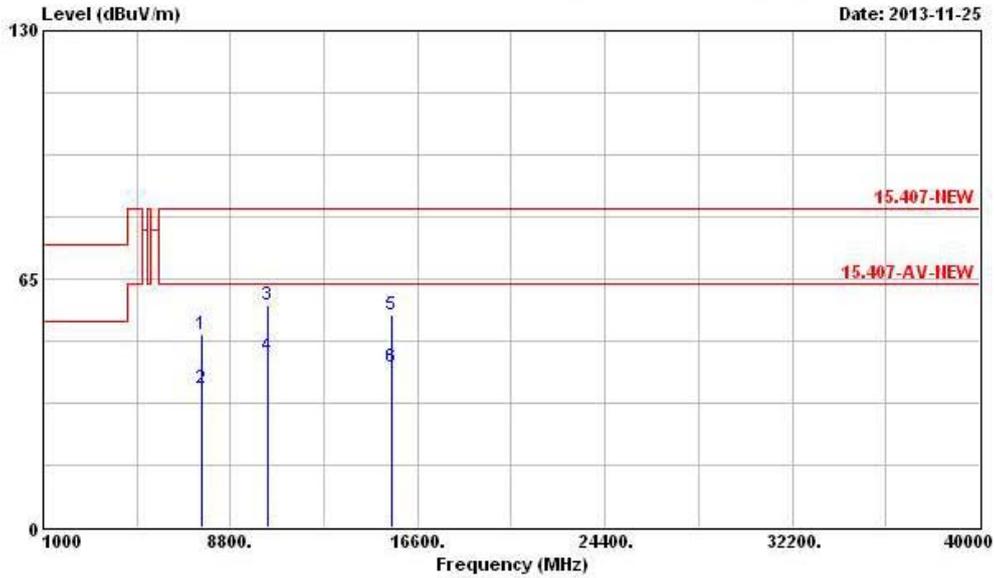


Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7710.000	50.07	-33.47	83.54	42.05	37.54	5.54	35.06	Peak	---
2	7710.000	36.24	-27.30	63.54	28.22	37.54	5.54	35.06	Average	---
3	10360.000	64.21	-19.33	83.54	54.37	38.51	6.38	35.05	Peak	---
4	10360.000	50.90	-12.64	63.54	41.06	38.51	6.38	35.05	Average	---
5	15540.000	53.79	-29.75	83.54	42.56	38.07	7.99	34.83	Peak	---
6	15540.000	42.63	-20.91	63.54	31.40	38.07	7.99	34.83	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	H



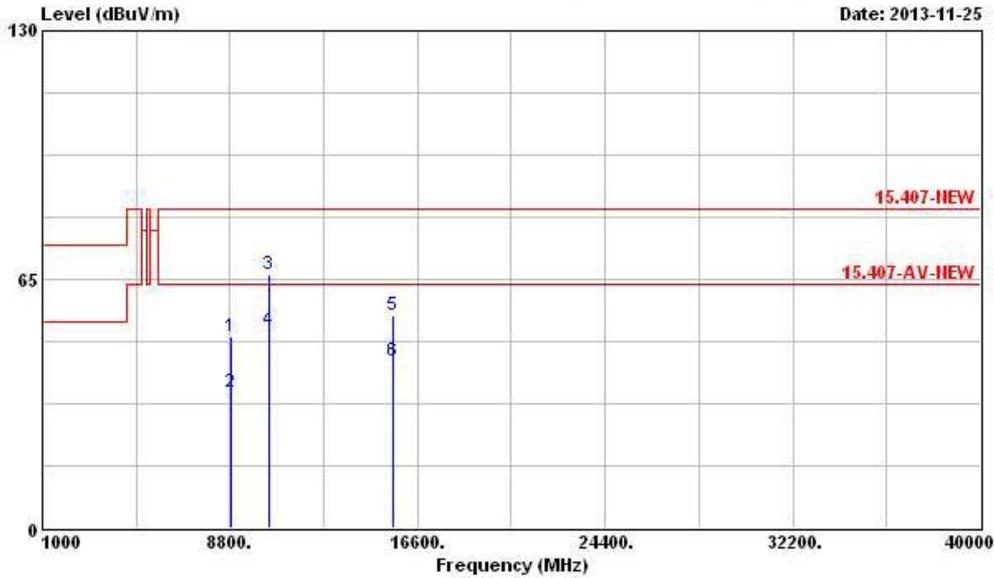
	Freq	Level	Over Limit	Limit Line	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7580.000	50.56	-32.98	83.54	42.42	37.52	5.64	35.02	Peak	---	---
2	7580.000	36.37	-27.17	63.54	28.23	37.52	5.64	35.02	Average	---	---
3	10360.000	58.04	-25.50	83.54	48.20	38.51	6.38	35.05	Peak	---	---
4	10360.000	44.75	-18.79	63.54	34.91	38.51	6.38	35.05	Average	---	---
5	15540.000	55.67	-27.87	83.54	44.44	38.07	7.99	34.83	Peak	---	---
6	15540.000	42.05	-21.49	63.54	30.82	38.07	7.99	34.83	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	V

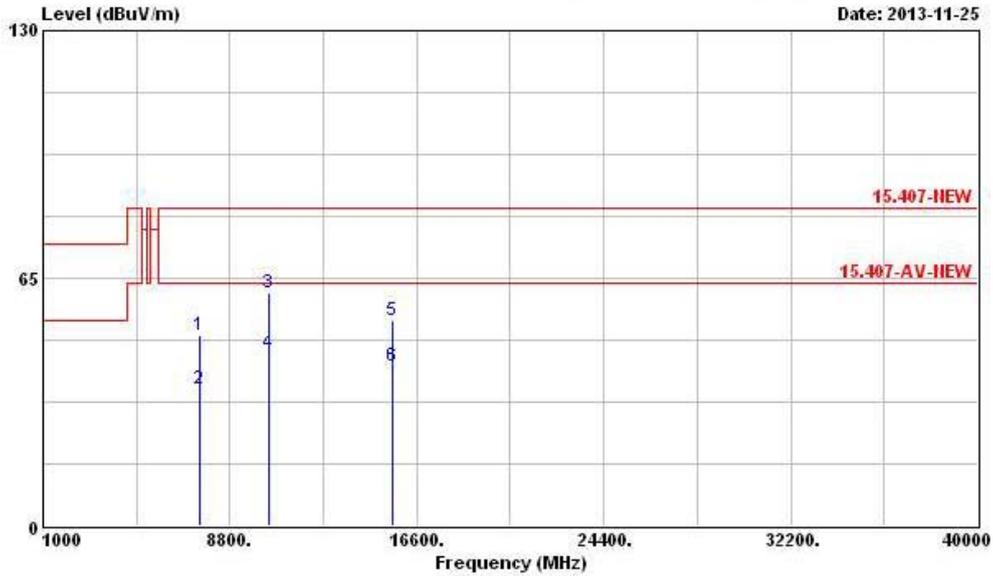


	Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8870.000	50.22	-33.32	83.54	41.42	38.11	5.86	35.17	Peak	---
2	8870.000	35.47	-28.07	63.54	26.67	38.11	5.86	35.17	Average	---
3	10400.000	66.21	-17.33	83.54	56.38	38.48	6.35	35.00	Peak	---
4	10400.000	51.87	-11.67	63.54	42.04	38.48	6.35	35.00	Average	---
5	15600.000	55.41	-28.13	83.54	44.37	38.00	7.96	34.92	Peak	---
6	15600.000	43.43	-20.11	63.54	32.39	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H

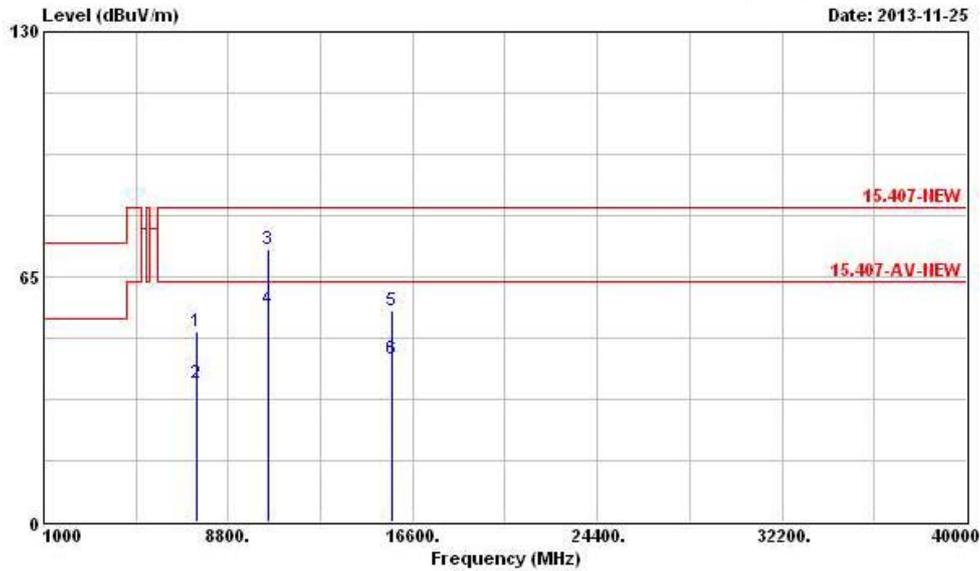


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Gain	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7510.000	50.13	-33.41	83.54	41.91	37.50	5.71	34.99	Peak	---	---
2	7510.000	36.05	-27.49	63.54	27.83	37.50	5.71	34.99	Average	---	---
3	10400.000	61.02	-22.52	83.54	51.19	38.48	6.35	35.00	Peak	---	---
4	10400.000	45.48	-18.06	63.54	35.65	38.48	6.35	35.00	Average	---	---
5	15600.000	53.84	-29.70	83.54	42.80	38.00	7.96	34.92	Peak	---	---
6	15600.000	41.96	-21.58	63.54	30.92	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	V

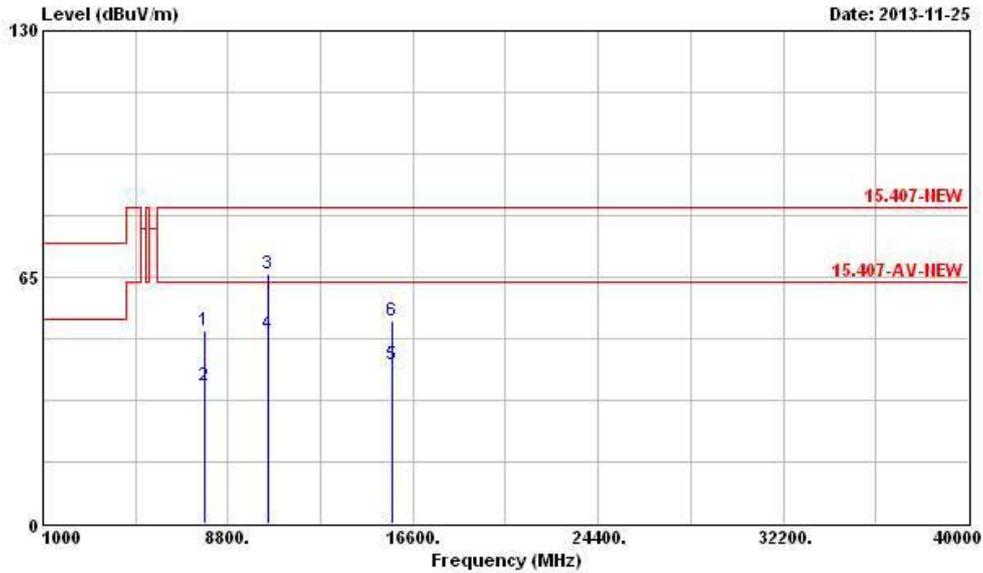


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7470.000	50.48	-33.06	83.54	42.35	37.46	5.66	34.99	Peak	---	---
2	7470.000	36.87	-26.67	63.54	28.74	37.46	5.66	34.99	Average	---	---
3	10480.000	72.11	-11.43	83.54	62.33	38.41	6.30	34.93	Peak	---	---
4	10480.000	56.40	-7.14	63.54	46.62	38.41	6.30	34.93	Average	---	---
5	15720.000	55.95	-27.59	83.54	45.24	37.88	7.86	35.03	Peak	---	---
6	15720.000	43.00	-20.54	63.54	32.29	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	H



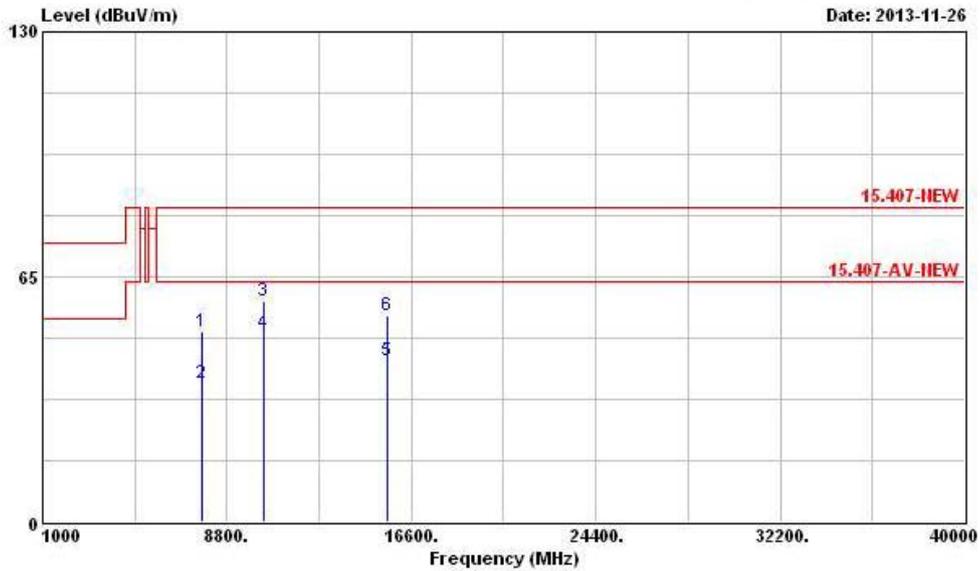
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7820.000	50.74	-32.80	83.54	42.83	37.56	5.44	35.09	Peak	---	---
2	7820.000	36.39	-27.15	63.54	28.48	37.56	5.44	35.09	Average	---	---
3	10480.000	65.77	-17.77	83.54	55.99	38.41	6.30	34.93	Peak	---	---
4	10480.000	50.21	-13.33	63.54	40.43	38.41	6.30	34.93	Average	---	---
5	15720.000	42.11	-21.43	63.54	31.40	37.88	7.86	35.03	Average	---	---
6	15720.000	53.46	-30.08	83.54	42.75	37.88	7.86	35.03	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	V



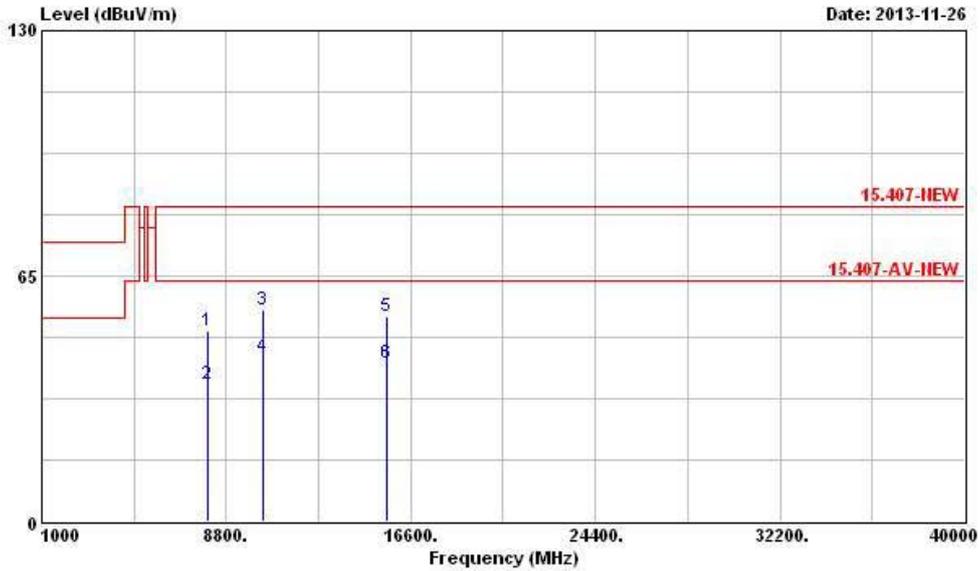
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7750.000	50.67	-32.87	83.54	42.69	37.55	5.51	35.08	Peak	---	---
2	7750.000	36.65	-26.89	63.54	28.67	37.55	5.51	35.08	Average	---	---
3	10380.000	58.55	-24.99	83.54	48.74	38.49	6.35	35.03	Peak	---	---
4	10380.000	50.24	-13.30	63.54	40.43	38.49	6.35	35.03	Average	---	---
5	15570.000	42.61	-20.93	63.54	31.48	38.03	7.96	34.86	Average	---	---
6	15570.000	54.89	-28.65	83.54	43.76	38.03	7.96	34.86	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	H



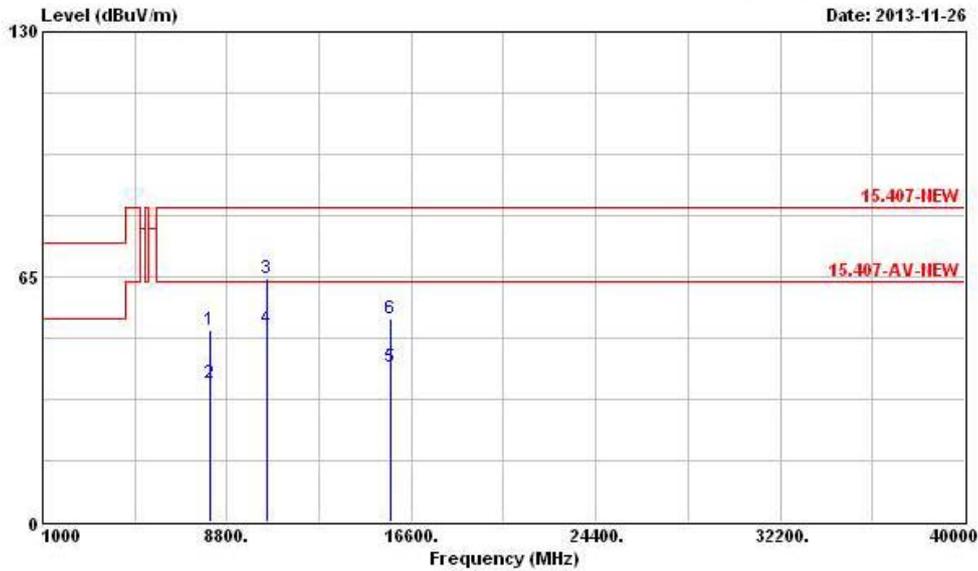
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8030.000	50.46	-33.08	83.54	42.70	37.60	5.32	35.16	Peak	---	---
2	8030.000	36.40	-27.14	63.54	28.64	37.60	5.32	35.16	Average	---	---
3	10380.000	56.04	-27.50	83.54	46.23	38.49	6.35	35.03	Peak	---	---
4	10380.000	43.74	-19.80	63.54	33.93	38.49	6.35	35.03	Average	---	---
5	15570.000	54.39	-29.15	83.54	43.26	38.03	7.96	34.86	Peak	---	---
6	15570.000	41.90	-21.64	63.54	30.77	38.03	7.96	34.86	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	V



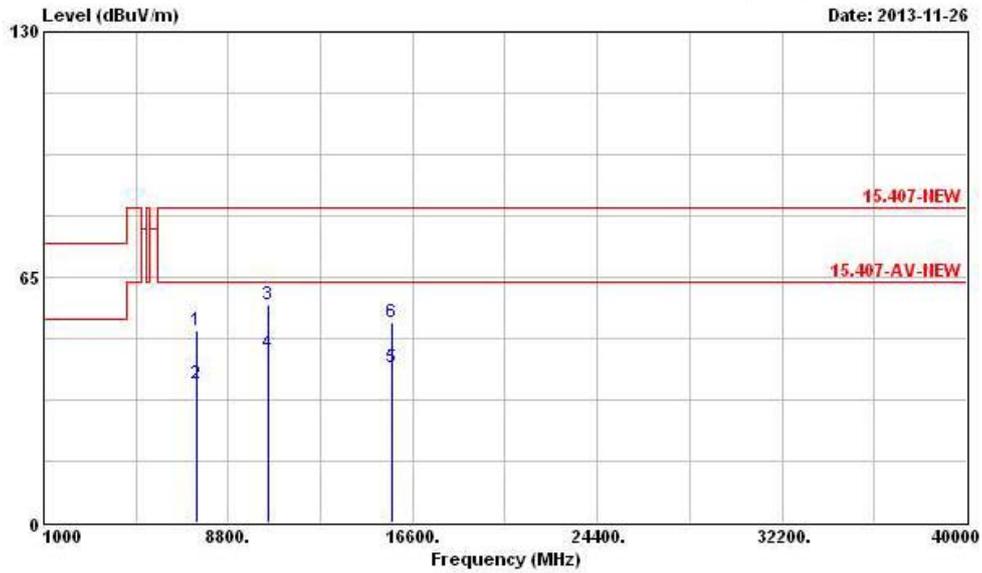
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8060.000	50.76	-32.78	83.54	42.98	37.60	5.33	35.15	Peak	---	---
2	8060.000	36.66	-26.88	63.54	28.88	37.60	5.33	35.15	Average	---	---
3	10460.000	64.64	-18.90	83.54	54.86	38.44	6.30	34.96	Peak	---	---
4	10460.000	51.21	-12.33	63.54	41.43	38.44	6.30	34.96	Average	---	---
5	15690.000	40.86	-22.68	63.54	30.09	37.91	7.86	35.00	Average	---	---
6	15690.000	53.68	-29.86	83.54	42.91	37.91	7.86	35.00	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	H



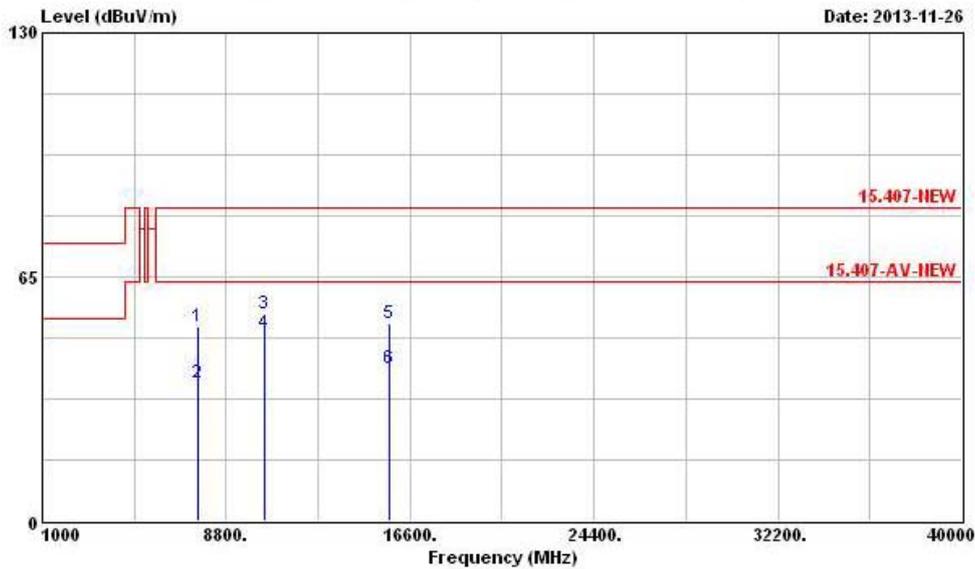
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7460.000	51.07	-32.47	83.54	42.97	37.42	5.66	34.98	Peak	---	---
2	7460.000	36.60	-26.94	63.54	28.50	37.42	5.66	34.98	Average	---	---
3	10460.000	57.65	-25.89	83.54	47.87	38.44	6.30	34.96	Peak	---	---
4	10460.000	44.90	-18.64	63.54	35.12	38.44	6.30	34.96	Average	---	---
5	15690.000	41.00	-22.54	63.54	30.23	37.91	7.86	35.00	Average	---	---
6	15690.000	52.90	-30.64	83.54	42.13	37.91	7.86	35.00	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT80	Test Freq. (MHz)	5210
N _{TX}	1	Polarization	V



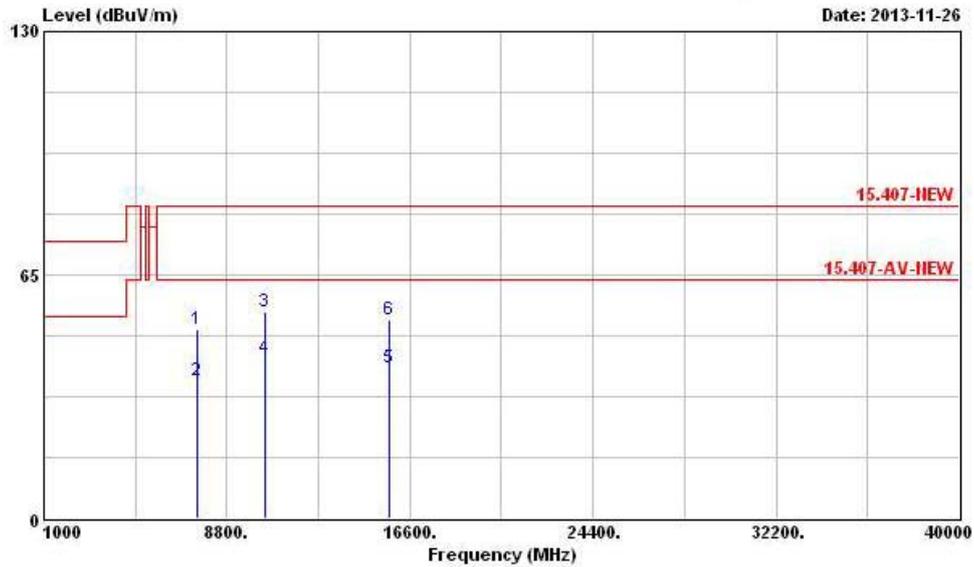
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		cm	deg
1	7590.000	51.88	-31.66	83.54	43.74	37.52	5.64	35.02 Peak	---	---
2	7590.000	36.66	-26.88	63.54	28.52	37.52	5.64	35.02 Average	---	---
3	10420.000	55.15	-28.39	83.54	45.35	38.47	6.33	35.00 Peak	---	---
4	10420.000	50.00	-13.54	63.54	40.20	38.47	6.33	35.00 Average	---	---
5	15720.000	52.80	-30.74	83.54	42.09	37.88	7.86	35.03 Peak	---	---
6	15720.000	40.43	-23.11	63.54	29.72	37.88	7.86	35.03 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT80	Test Freq. (MHz)	5210
N _{TX}	1	Polarization	H



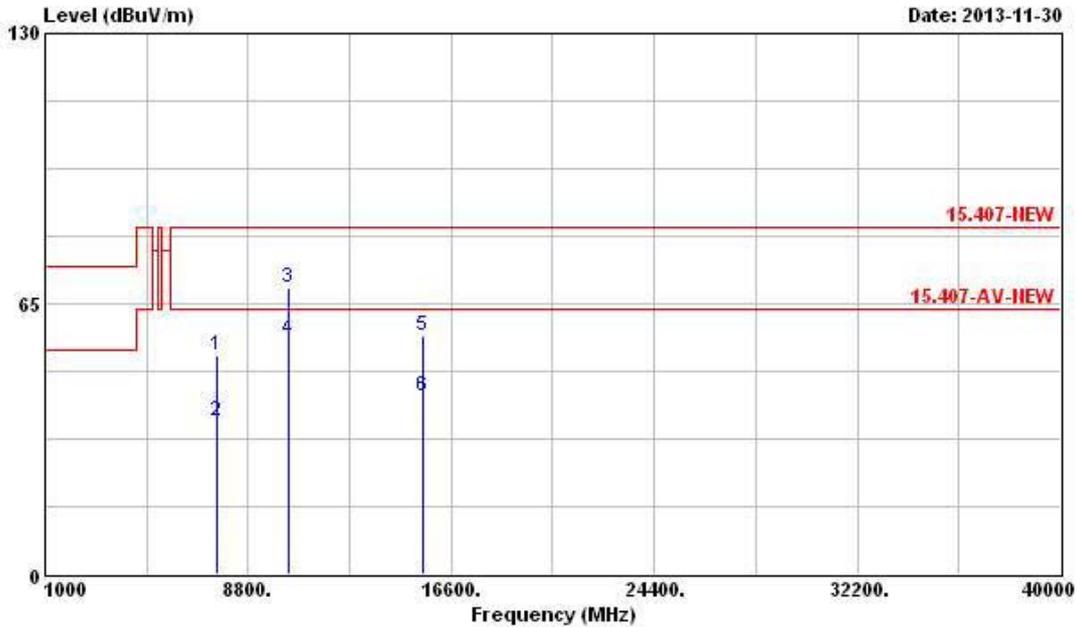
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7510.000	50.31	-33.23	83.54	42.09	37.50	5.71	34.99	Peak	---	---
2	7510.000	36.60	-26.94	63.54	28.38	37.50	5.71	34.99	Average	---	---
3	10420.000	55.10	-28.44	83.54	45.30	38.47	6.33	35.00	Peak	---	---
4	10420.000	42.73	-20.81	63.54	32.93	38.47	6.33	35.00	Average	---	---
5	15720.000	40.32	-23.22	63.54	29.61	37.88	7.86	35.03	Average	---	---
6	15720.000	53.09	-30.45	83.54	42.38	37.88	7.86	35.03	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V



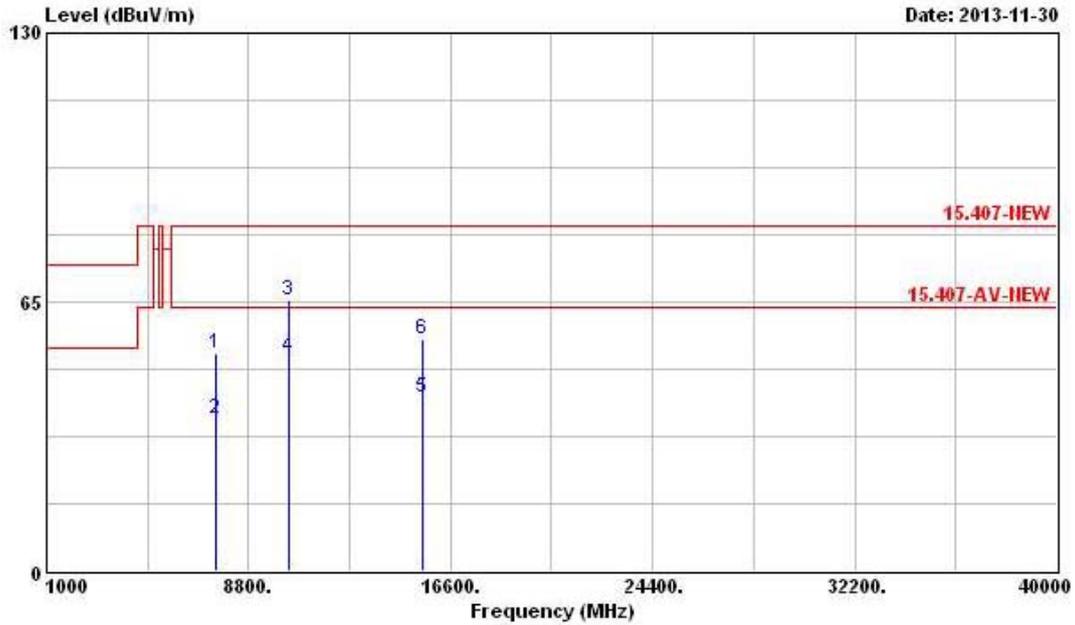
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7580.000	52.75	-30.79	83.54	44.61	37.52	5.64	35.02	Peak	---
2	7580.000	36.87	-26.67	63.54	28.73	37.52	5.64	35.02	Average	---
3	10360.000	68.95	-14.59	83.54	59.11	38.51	6.38	35.05	Peak	---
4	10360.000	56.39	-7.15	63.54	46.55	38.51	6.38	35.05	Average	---
5	15540.000	57.22	-26.32	83.54	45.99	38.07	7.99	34.83	Peak	---
6	15540.000	42.60	-20.94	63.54	31.37	38.07	7.99	34.83	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	H



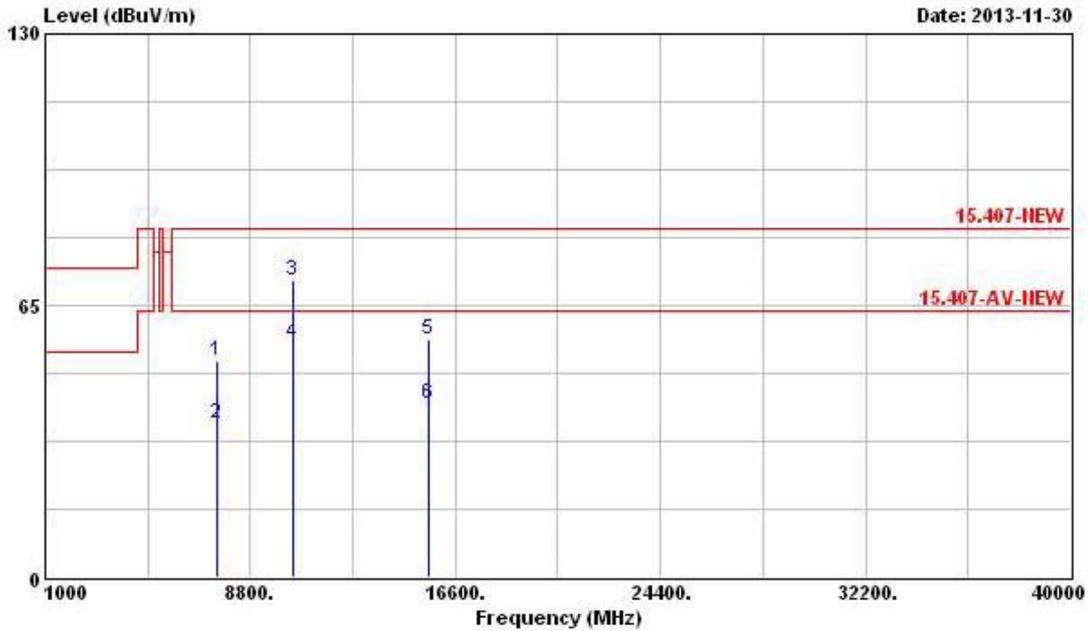
	Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table		
Freq	Level	Limit	Level	Factor	Loss	Factor	Remark	Pos	Pos		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	7540.000	52.43	-31.11	83.54	44.24	37.51	5.68	35.00	Peak	---	---
2	7540.000	36.69	-26.85	63.54	28.50	37.51	5.68	35.00	Average	---	---
3	10360.000	65.41	-18.13	83.54	55.57	38.51	6.38	35.05	Peak	---	---
4	10360.000	51.83	-11.71	63.54	41.99	38.51	6.38	35.05	Average	---	---
5	15540.000	42.05	-21.49	63.54	30.82	38.07	7.99	34.83	Average	---	---
6	15540.000	56.22	-27.32	83.54	44.99	38.07	7.99	34.83	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	V



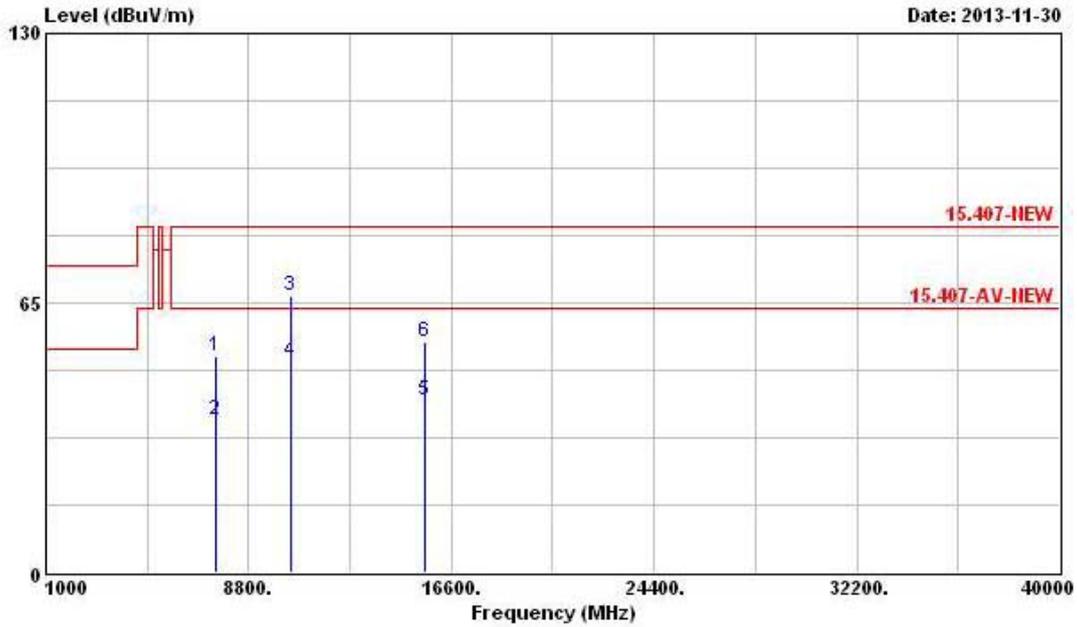
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7540.000	51.85	-31.69	83.54	43.66	37.51	5.68	35.00	Peak	---
2	7540.000	36.62	-26.92	63.54	28.43	37.51	5.68	35.00	Average	---
3	10390.000	71.18	-12.36	83.54	61.37	38.49	6.35	35.03	Peak	---
4	10390.000	56.21	-7.33	63.54	46.40	38.49	6.35	35.03	Average	---
5	15600.000	56.75	-26.79	83.54	45.71	38.00	7.96	34.92	Peak	---
6	15600.000	41.69	-21.85	63.54	30.65	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H



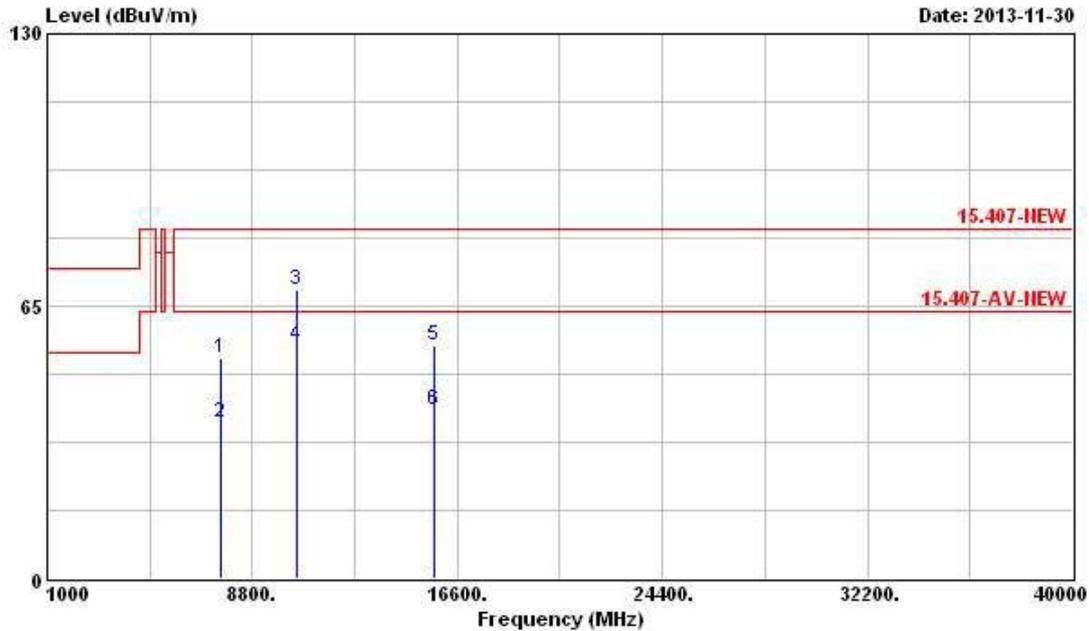
Line	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	52.30	-31.24	83.54	44.12	37.51	5.68	35.01	Peak	---	---
2	7550.000	36.75	-26.79	63.54	28.57	37.51	5.68	35.01	Average	---	---
3	10400.000	66.63	-16.91	83.54	56.80	38.48	6.35	35.00	Peak	---	---
4	10400.000	51.06	-12.48	63.54	41.23	38.48	6.35	35.00	Average	---	---
5	15600.000	41.63	-21.91	63.54	30.59	38.00	7.96	34.92	Average	---	---
6	15600.000	55.69	-27.85	83.54	44.65	38.00	7.96	34.92	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)
 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.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	V



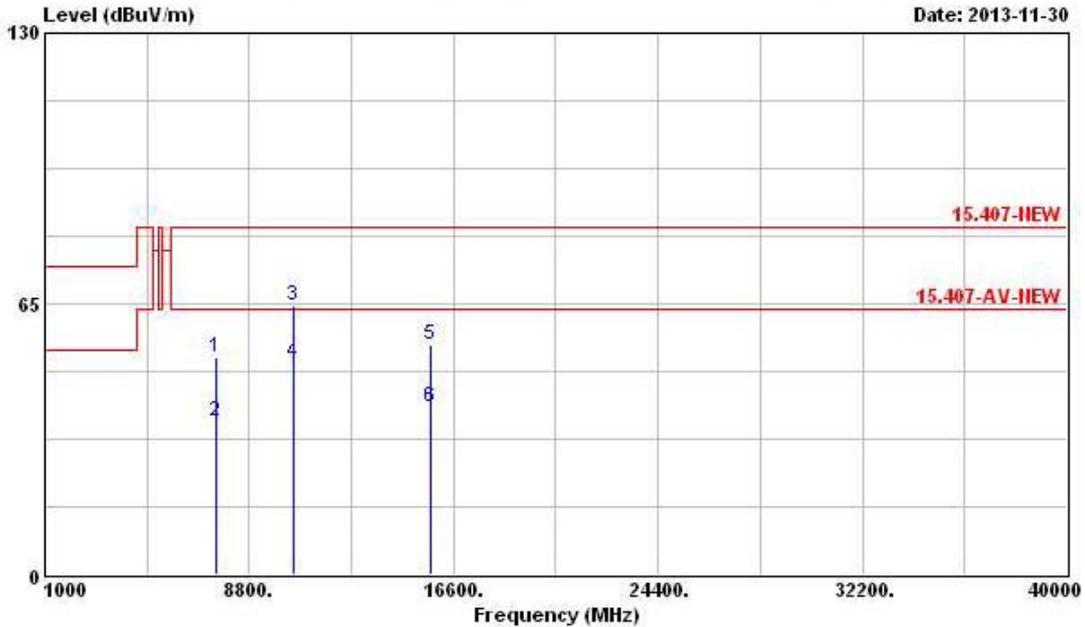
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7620.000	52.47	-31.07	83.54	44.37	37.52	5.61	35.03	Peak	---
2	7620.000	37.07	-26.47	63.54	28.97	37.52	5.61	35.03	Average	---
3	10480.000	68.74	-14.80	83.54	58.96	38.41	6.30	34.93	Peak	---
4	10480.000	55.38	-8.16	63.54	45.60	38.41	6.30	34.93	Average	---
5	15720.000	55.63	-27.91	83.54	44.92	37.88	7.86	35.03	Peak	---
6	15720.000	40.26	-23.28	63.54	29.55	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	H



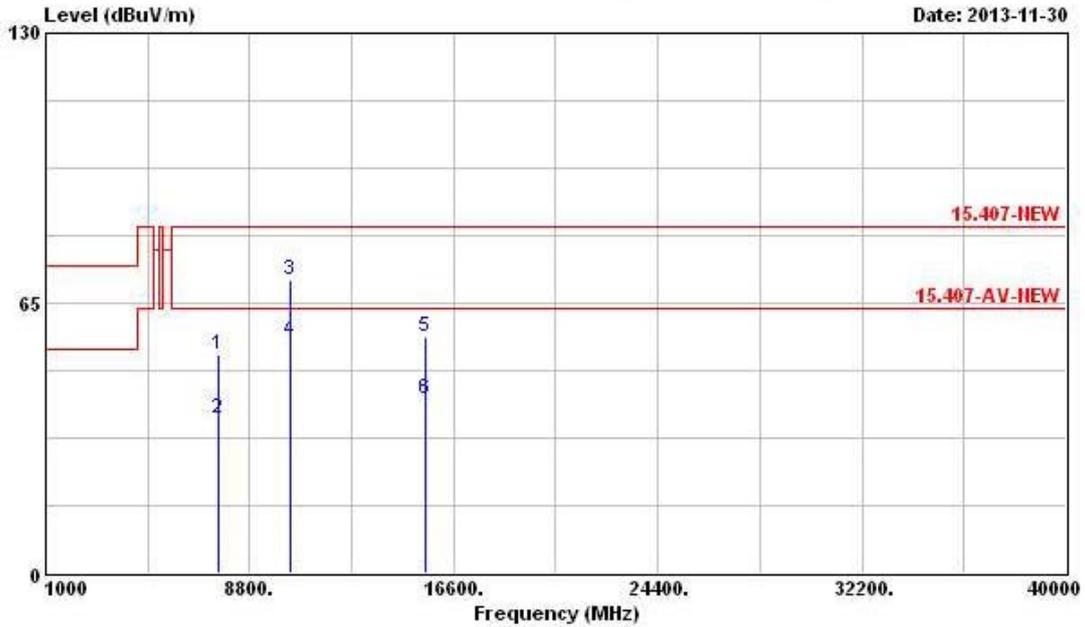
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7510.000	52.38	-31.16	83.54	44.16	37.50	5.71	34.99	Peak	---	---
2	7510.000	36.61	-26.93	63.54	28.39	37.50	5.71	34.99	Average	---	---
3	10480.000	64.37	-19.17	83.54	54.59	38.41	6.30	34.93	Peak	---	---
4	10480.000	50.71	-12.83	63.54	40.93	38.41	6.30	34.93	Average	---	---
5	15720.000	55.18	-28.36	83.54	44.47	37.88	7.86	35.03	Peak	---	---
6	15720.000	40.17	-23.37	63.54	29.46	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V



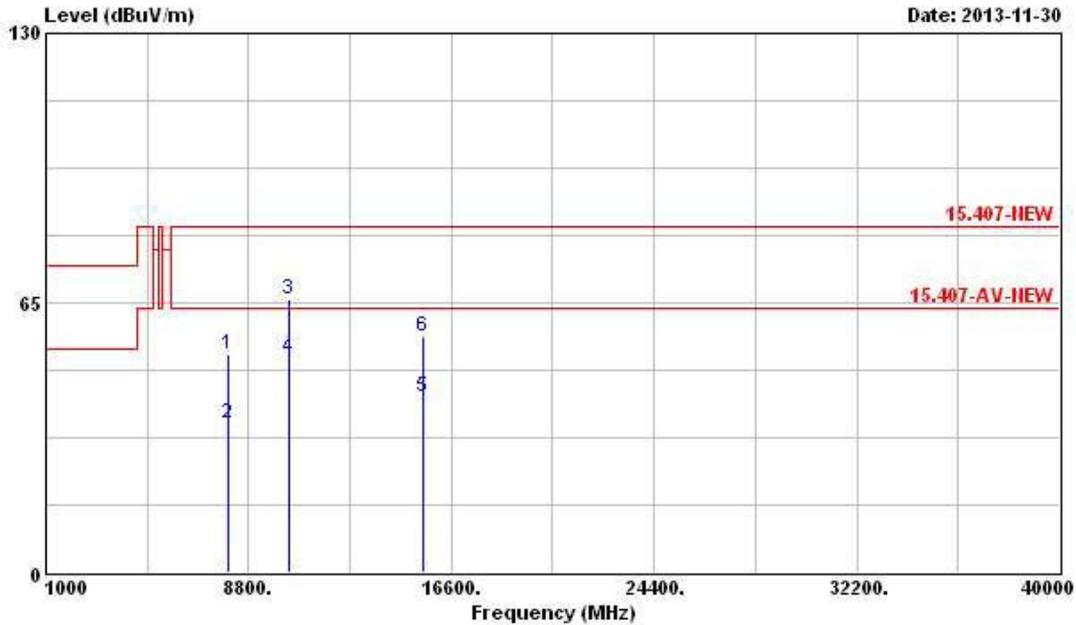
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7630.000	52.53	-31.01	83.54	44.42	37.53	5.61	35.03	Peak	---
2	7630.000	37.16	-26.38	63.54	29.05	37.53	5.61	35.03	Average	---
3	10360.000	70.61	-12.93	83.54	60.77	38.51	6.38	35.05	Peak	---
4	10360.000	56.10	-7.44	63.54	46.26	38.51	6.38	35.05	Average	---
5	15540.000	56.81	-26.73	83.54	45.58	38.07	7.99	34.83	Peak	---
6	15540.000	41.97	-21.57	63.54	30.74	38.07	7.99	34.83	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	H



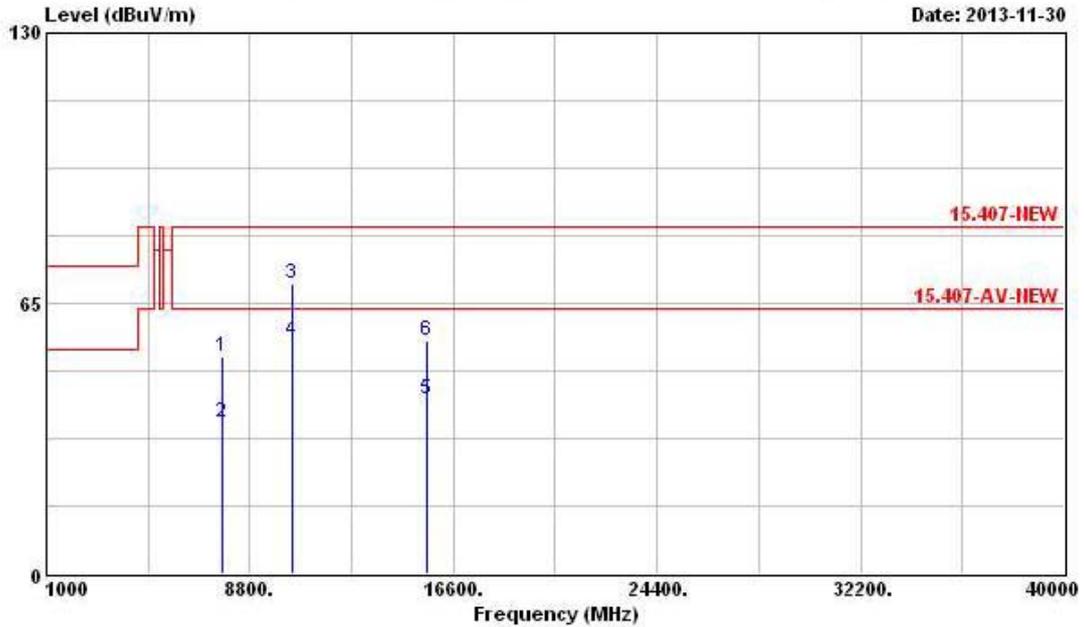
	Over	Limit	ReadAntenna	Cable	Preamp					
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Ant	Table
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7990.000	52.39	-31.15	83.54	44.63	37.60	5.31	35.15	Peak	---
2	7990.000	35.97	-27.57	63.54	28.21	37.60	5.31	35.15	Average	---
3	10350.000	65.83	-17.71	83.54	55.98	38.52	6.38	35.05	Peak	---
4	10350.000	51.69	-11.85	63.54	41.84	38.52	6.38	35.05	Average	---
5	15540.000	42.34	-21.20	63.54	31.11	38.07	7.99	34.83	Average	---
6	15540.000	57.05	-26.49	83.54	45.82	38.07	7.99	34.83	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	V



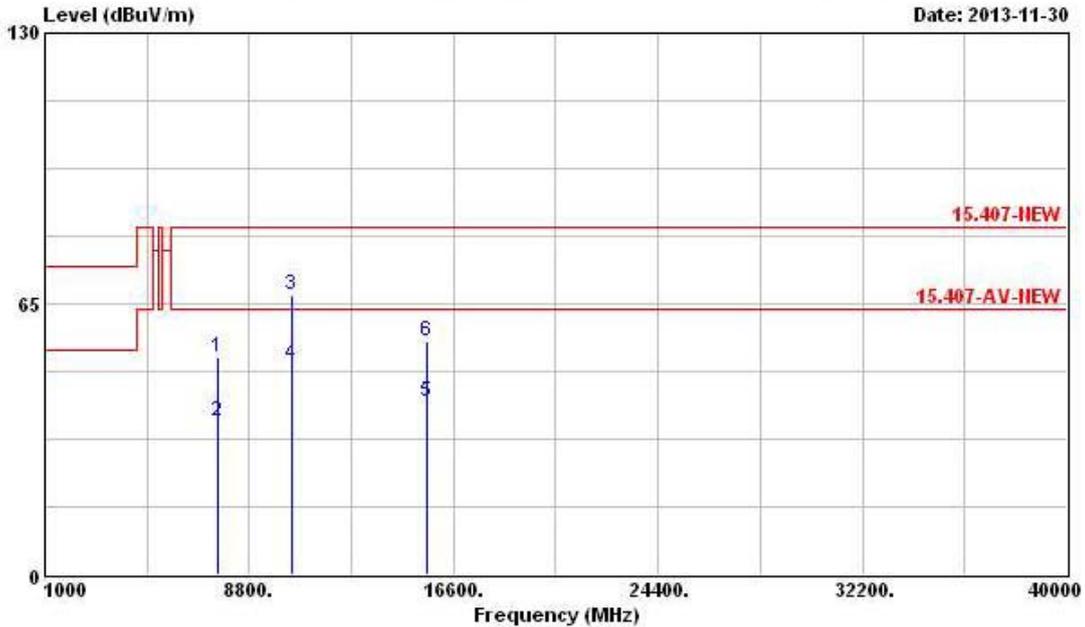
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7710.000	52.37	-31.17	83.54	44.35	37.54	5.54	35.06	Peak	---	---
2	7710.000	36.53	-27.01	63.54	28.51	37.54	5.54	35.06	Average	---	---
3	10400.000	69.74	-13.80	83.54	59.91	38.48	6.35	35.00	Peak	---	---
4	10400.000	55.81	-7.73	63.54	45.98	38.48	6.35	35.00	Average	---	---
5	15600.000	41.72	-21.82	63.54	30.68	38.00	7.96	34.92	Average	---	---
6	15600.000	55.87	-27.67	83.54	44.83	38.00	7.96	34.92	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H



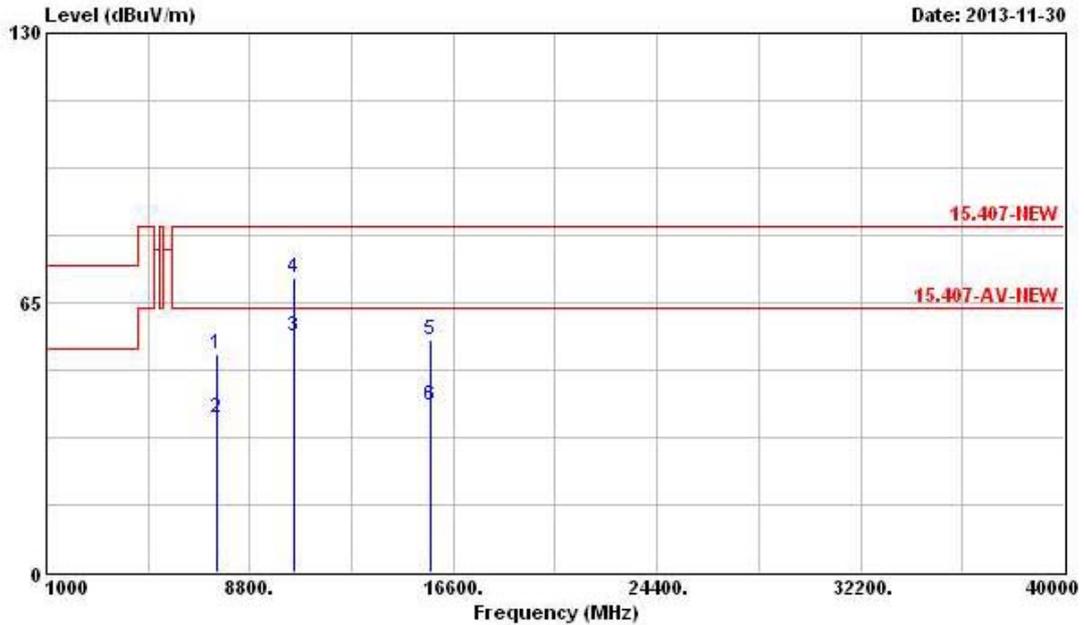
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.20	-31.34	83.54	44.10	37.52	5.61	35.03	Peak	---	---
2	7620.000	36.85	-26.69	63.54	28.75	37.52	5.61	35.03	Average	---	---
3	10400.000	67.28	-16.26	83.54	57.45	38.48	6.35	35.00	Peak	---	---
4	10400.000	50.46	-13.08	63.54	40.63	38.48	6.35	35.00	Average	---	---
5	15600.000	41.61	-21.93	63.54	30.57	38.00	7.96	34.92	Average	---	---
6	15600.000	55.86	-27.68	83.54	44.82	38.00	7.96	34.92	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	V



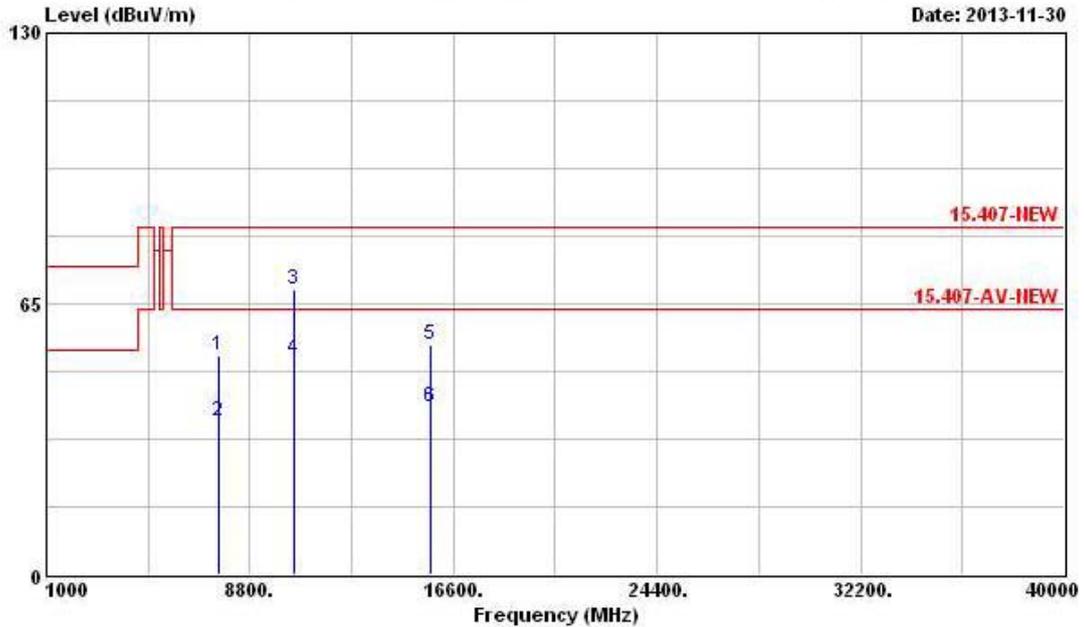
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7510.000	52.44	-31.10	83.54	44.22	37.50	5.71	34.99	Peak	---	---
2	7510.000	37.02	-26.52	63.54	28.80	37.50	5.71	34.99	Average	---	---
3	10480.000	56.78	-6.76	63.54	47.00	38.41	6.30	34.93	Average	---	---
4	10480.000	71.13	-12.41	83.54	61.35	38.41	6.30	34.93	Peak	---	---
5	15720.000	55.91	-27.63	83.54	45.20	37.88	7.86	35.03	Peak	---	---
6	15720.000	40.31	-23.23	63.54	29.60	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	H



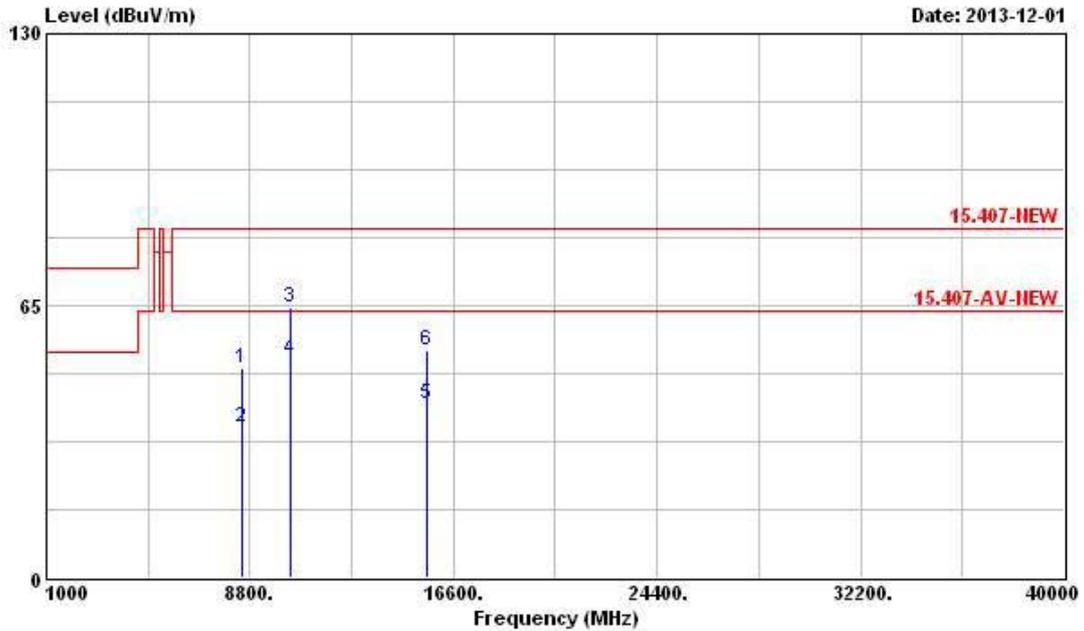
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBUV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBUV/m	dBuV	dB	dB		cm	deg
1	7580.000	52.47	-31.07	83.54	44.33	37.52	5.64	35.02	Peak	---
2	7580.000	36.75	-26.79	63.54	28.61	37.52	5.64	35.02	Average	---
3	10480.000	68.35	-15.19	83.54	58.57	38.41	6.30	34.93	Peak	---
4	10480.000	51.91	-11.63	63.54	42.13	38.41	6.30	34.93	Average	---
5	15720.000	55.17	-28.37	83.54	44.46	37.88	7.86	35.03	Peak	---
6	15720.000	40.26	-23.28	63.54	29.55	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	V



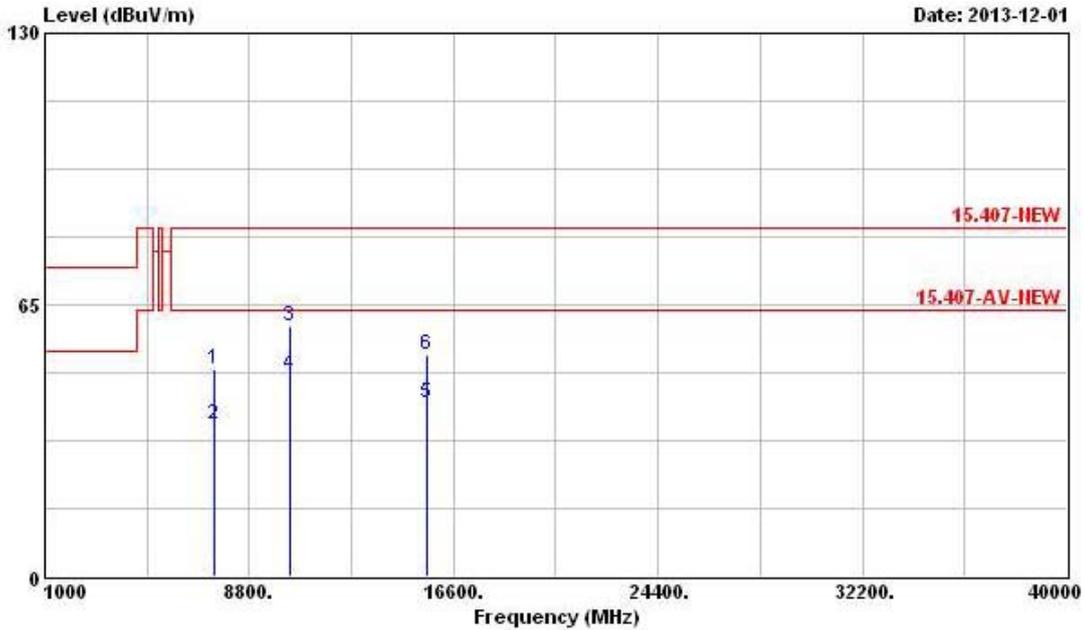
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8529.000	50.07	-33.47	83.54	42.02	37.65	5.50	35.10	Peak	---	---
2	8529.000	35.94	-27.60	63.54	27.89	37.65	5.50	35.10	Average	---	---
3	10380.000	64.50	-19.04	83.54	54.69	38.49	6.35	35.03	Peak	---	---
4	10380.000	52.30	-11.24	63.54	42.49	38.49	6.35	35.03	Average	---	---
5	15570.000	41.57	-21.97	63.54	30.44	38.03	7.96	34.86	Average	---	---
6	15570.000	54.15	-29.39	83.54	43.02	38.03	7.96	34.86	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	H



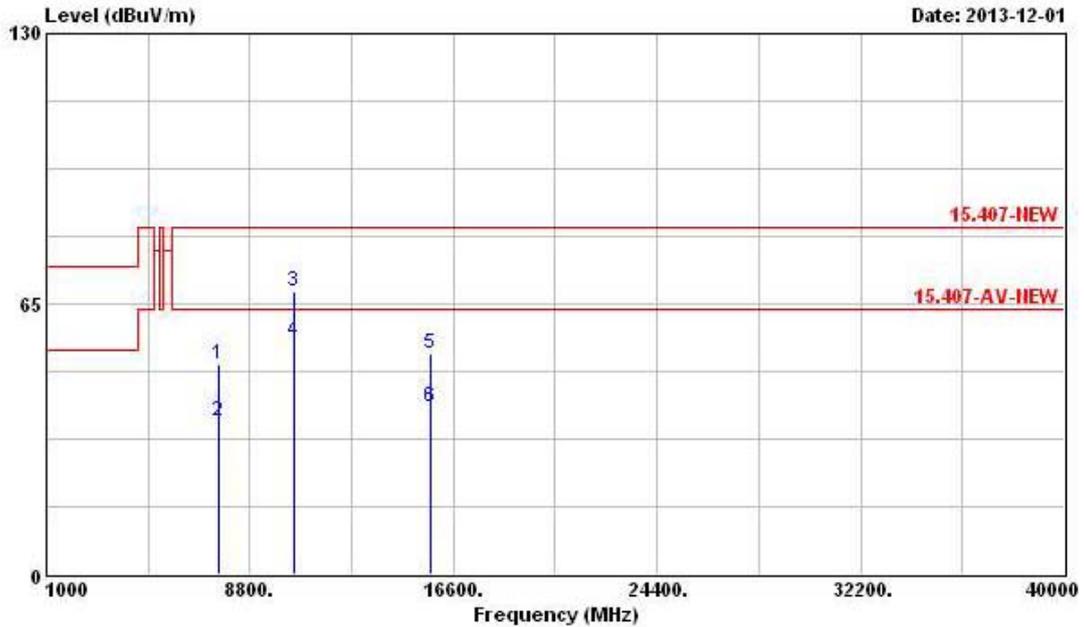
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7473.000	49.67	-33.87	83.54	41.54	37.46	5.66	34.99	Peak	---
2	7473.000	36.34	-27.20	63.54	28.21	37.46	5.66	34.99	Average	---
3	10380.000	59.79	-23.75	83.54	49.98	38.49	6.35	35.03	Peak	---
4	10380.000	48.17	-15.37	63.54	38.36	38.49	6.35	35.03	Average	---
5	15570.000	41.45	-22.09	63.54	30.32	38.03	7.96	34.86	Average	---
6	15570.000	53.09	-30.45	83.54	41.96	38.03	7.96	34.86	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	V



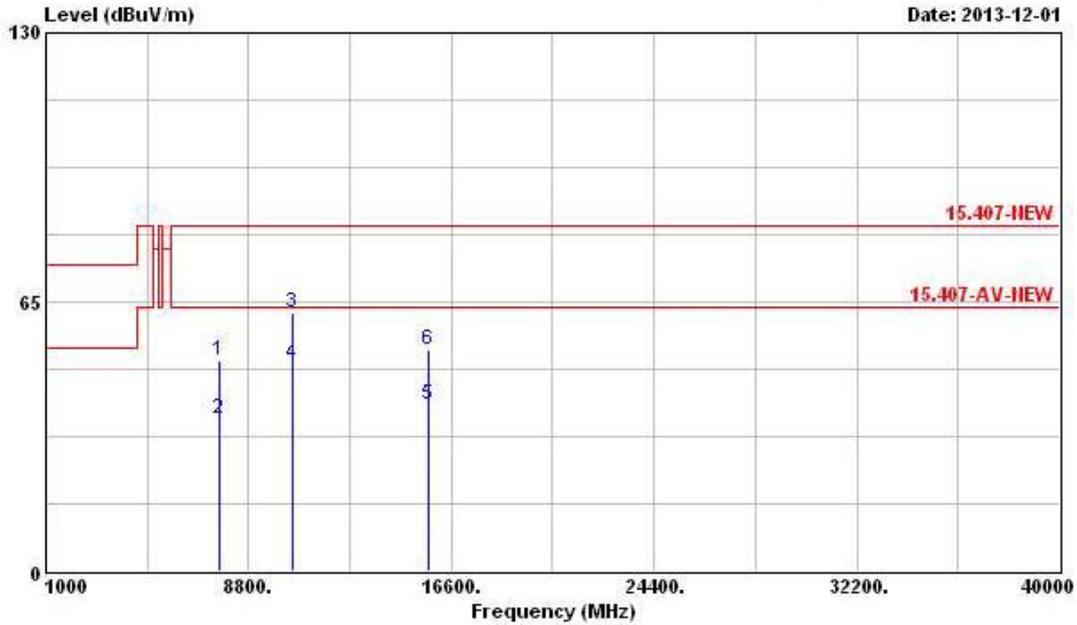
	Over	Limit	ReadAntenna	Cable	Preamp				Ant	Table
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7605.000	50.52	-33.02	83.54	42.38	37.52	5.64	35.02	Peak	---
2	7605.000	36.73	-26.81	63.54	28.59	37.52	5.64	35.02	Average	---
3	10460.000	67.96	-15.58	83.54	58.18	38.44	6.30	34.96	Peak	---
4	10460.000	55.86	-7.68	63.54	46.08	38.44	6.30	34.96	Average	---
5	15690.000	53.05	-30.49	83.54	42.28	37.91	7.86	35.00	Peak	---
6	15690.000	40.16	-23.38	63.54	29.39	37.91	7.86	35.00	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	H



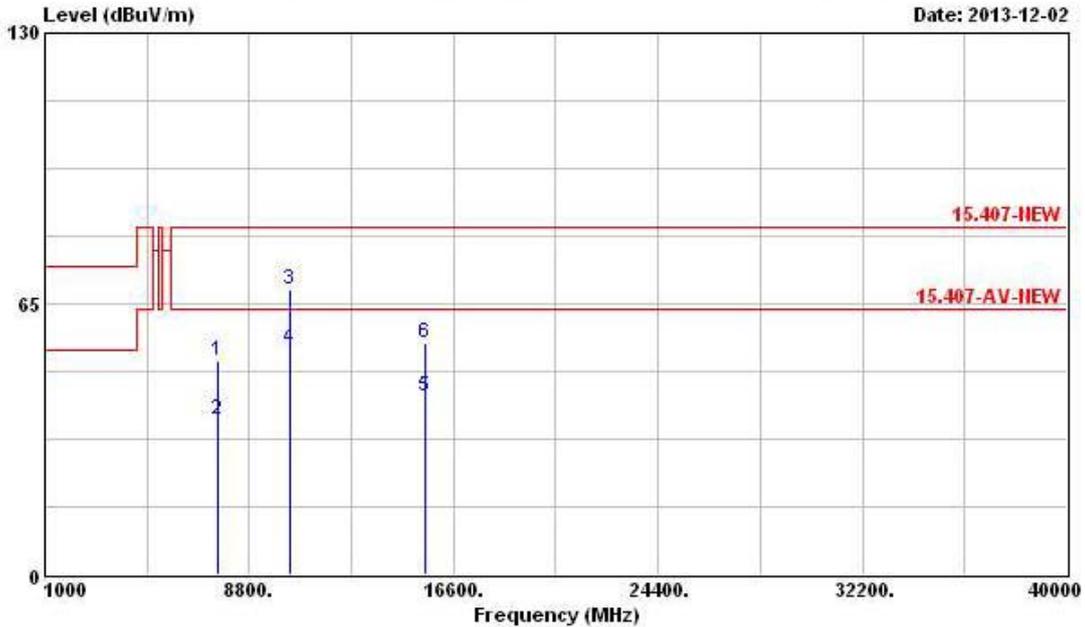
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7638.000	50.98	-32.56	83.54	42.87	37.53	5.61	35.03	Peak	---
2	7638.000	36.75	-26.79	63.54	28.64	37.53	5.61	35.03	Average	---
3	10460.000	62.23	-21.31	83.54	52.45	38.44	6.30	34.96	Peak	---
4	10460.000	50.18	-13.36	63.54	40.40	38.44	6.30	34.96	Average	---
5	15690.000	40.15	-23.39	63.54	29.38	37.91	7.86	35.00	Average	---
6	15690.000	53.51	-30.03	83.54	42.74	37.91	7.86	35.00	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V



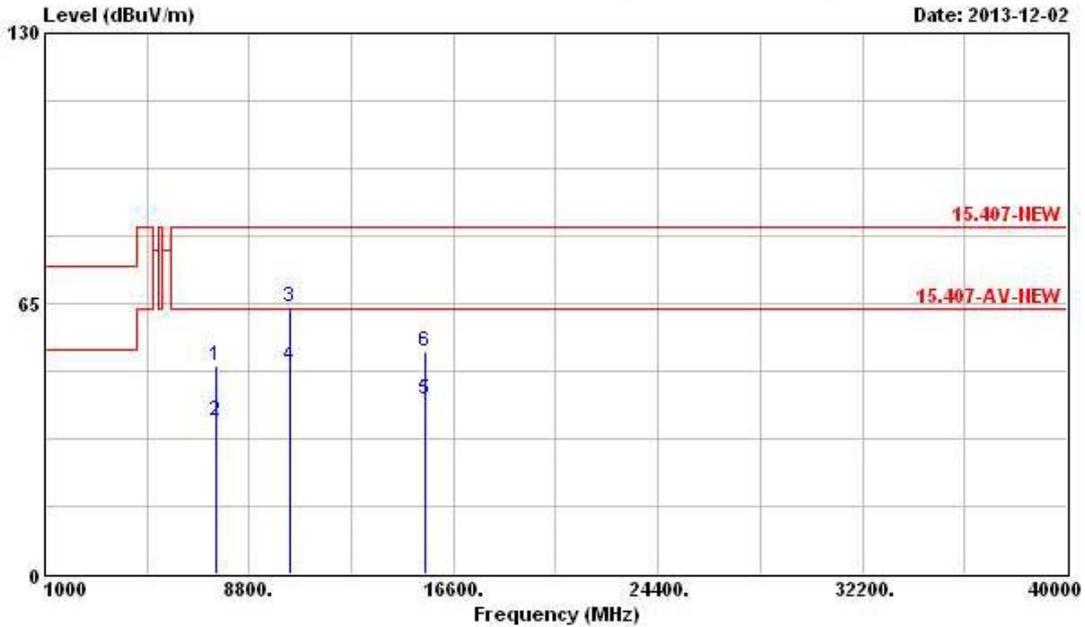
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7590.000	51.11	-32.43	83.54	42.97	37.52	5.64	35.02	Peak	---	---
2	7590.000	37.27	-26.27	63.54	29.13	37.52	5.64	35.02	Average	---	---
3	10360.000	68.51	-15.03	83.54	58.67	38.51	6.38	35.05	Peak	---	---
4	10360.000	54.27	-9.27	63.54	44.43	38.51	6.38	35.05	Average	---	---
5	15540.000	42.81	-20.73	63.54	31.58	38.07	7.99	34.83	Average	---	---
6	15540.000	55.71	-27.83	83.54	44.48	38.07	7.99	34.83	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	H



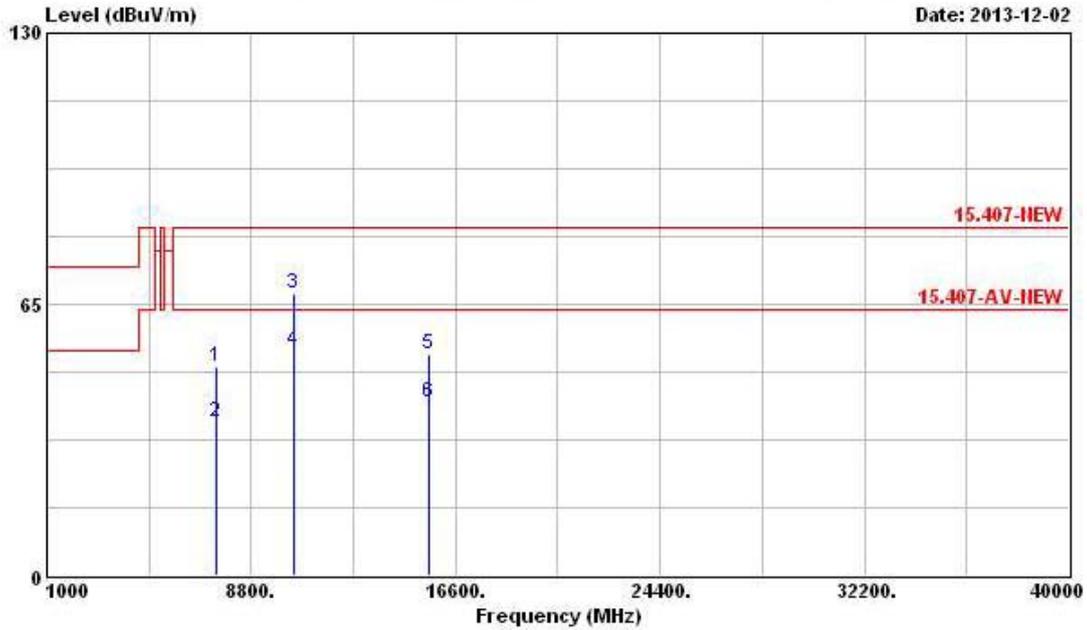
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7540.000	50.20	-33.34	83.54	42.01	37.51	5.68	35.00	Peak	---
2	7540.000	36.73	-26.81	63.54	28.54	37.51	5.68	35.00	Average	---
3	10360.000	64.09	-19.45	83.54	54.25	38.51	6.38	35.05	Peak	---
4	10360.000	50.18	-13.36	63.54	40.34	38.51	6.38	35.05	Average	---
5	15540.000	41.86	-21.68	63.54	30.63	38.07	7.99	34.83	Average	---
6	15540.000	53.45	-30.09	83.54	42.22	38.07	7.99	34.83	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	V



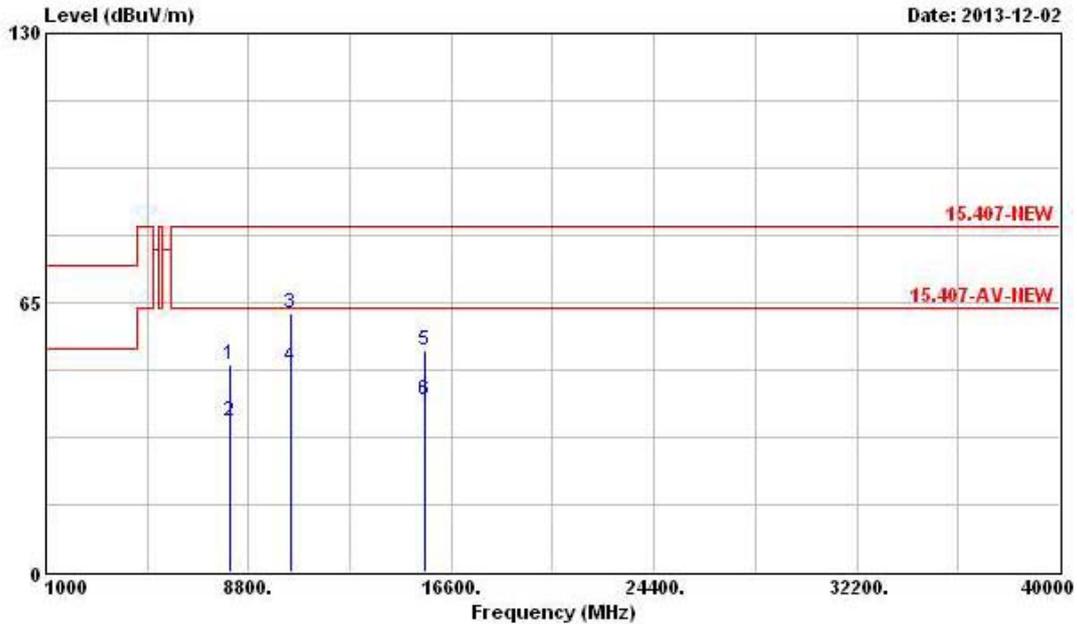
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7460.000	50.23	-33.31	83.54	42.13	37.42	5.66	34.98	Peak	---
2	7460.000	36.72	-26.82	63.54	28.62	37.42	5.66	34.98	Average	---
3	10400.000	67.54	-16.00	83.54	57.71	38.48	6.35	35.00	Peak	---
4	10400.000	54.04	-9.50	63.54	44.21	38.48	6.35	35.00	Average	---
5	15600.000	53.21	-30.33	83.54	42.17	38.00	7.96	34.92	Peak	---
6	15600.000	41.52	-22.02	63.54	30.48	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H



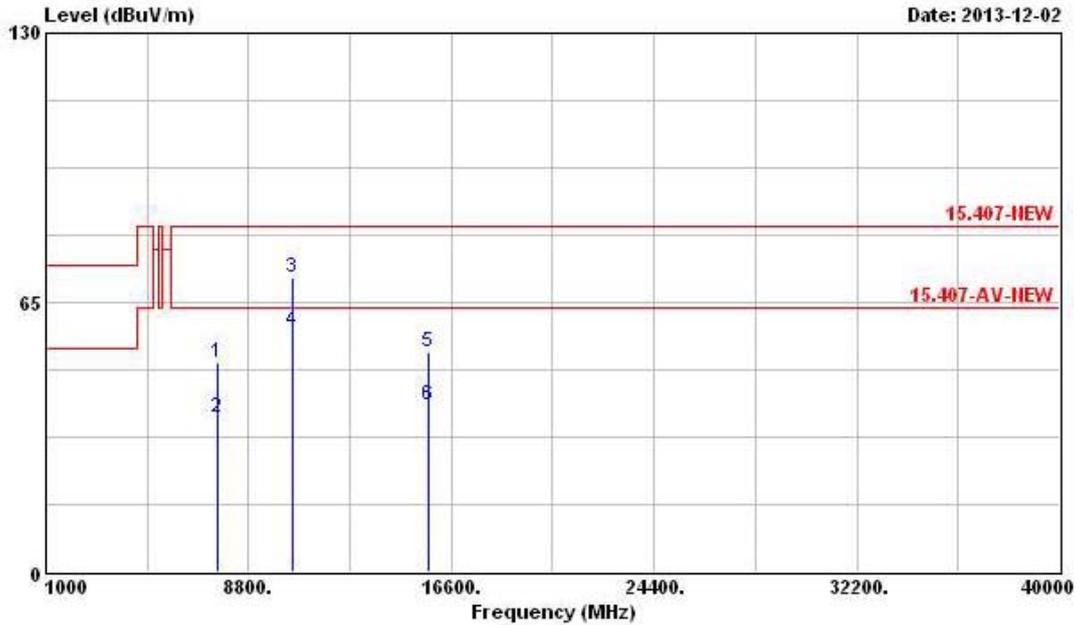
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8070.000	50.03	-33.51	83.54	42.25	37.60	5.33	35.15	Peak	---	---
2	8070.000	36.50	-27.04	63.54	28.72	37.60	5.33	35.15	Average	---	---
3	10400.000	62.26	-21.28	83.54	52.43	38.48	6.35	35.00	Peak	---	---
4	10400.000	49.71	-13.83	63.54	39.88	38.48	6.35	35.00	Average	---	---
5	15600.000	53.33	-30.21	83.54	42.29	38.00	7.96	34.92	Peak	---	---
6	15600.000	41.45	-22.09	63.54	30.41	38.00	7.96	34.92	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	V



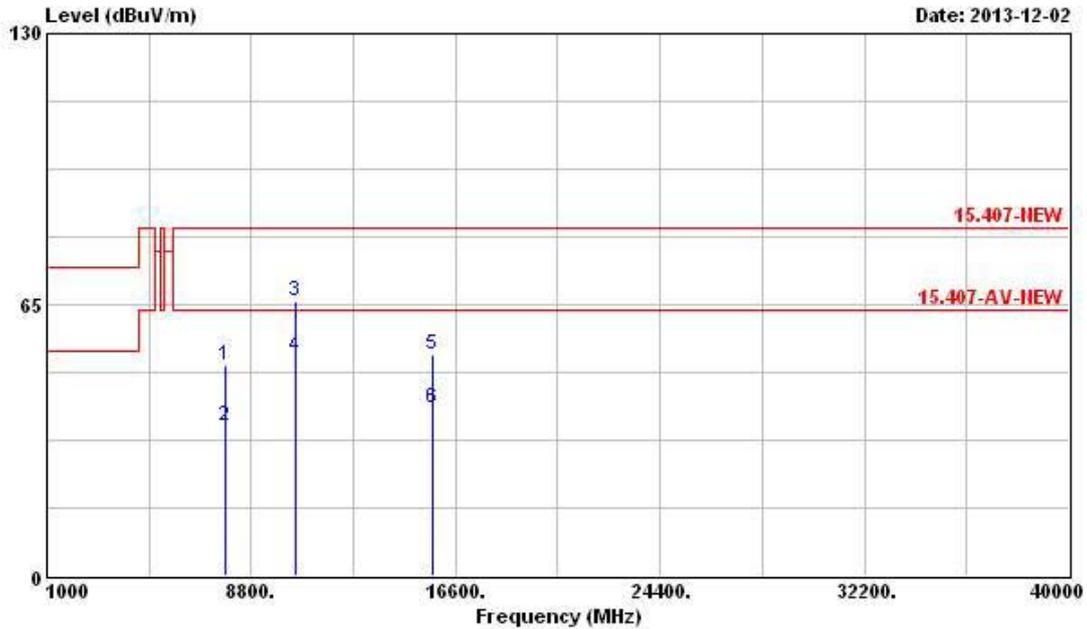
	Over	Limit	ReadAntenna	Cable	Preamp		Rnt	Table			
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB				
1	7620.000	50.54	-33.00	83.54	42.44	37.52	5.61	35.03	Peak	---	---
2	7620.000	36.99	-26.55	63.54	28.89	37.52	5.61	35.03	Average	---	---
3	10480.000	70.25	-12.52	83.54	61.17	38.41	6.30	34.93	Peak	---	---
4	10480.000	58.02	-5.52	63.54	48.24	38.41	6.30	34.93	Average	---	---
5	15720.000	53.06	-30.48	83.54	42.35	37.88	7.86	35.03	Peak	---	---
6	15720.000	40.29	-23.25	63.54	29.58	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5240
N _{TX}	1	Polarization	H



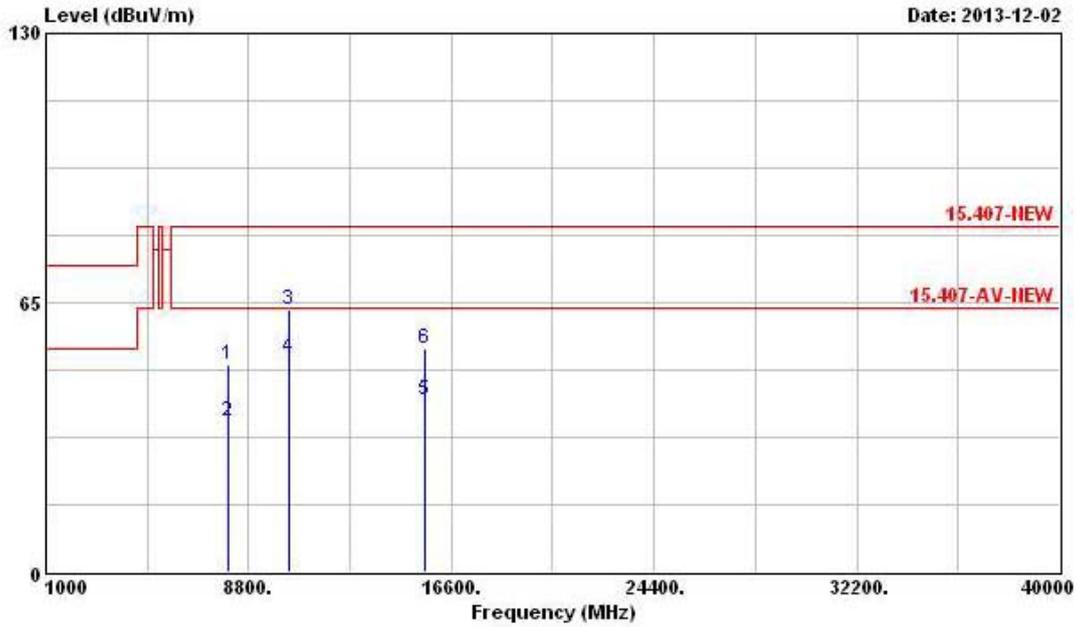
	Over	Limit	ReadAntenna	Cable	Preamp						
Line	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7820.000	50.48	-33.06	83.54	42.57	37.56	5.44	35.09	Peak	---	---
2	7820.000	36.04	-27.50	63.54	28.13	37.56	5.44	35.09	Average	---	---
3	10480.000	65.80	-17.74	83.54	56.02	38.41	6.30	34.93	Peak	---	---
4	10480.000	52.49	-11.05	63.54	42.71	38.41	6.30	34.93	Average	---	---
5	15720.000	53.08	-30.46	83.54	42.37	37.88	7.86	35.03	Peak	---	---
6	15720.000	40.17	-23.37	63.54	29.46	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	V



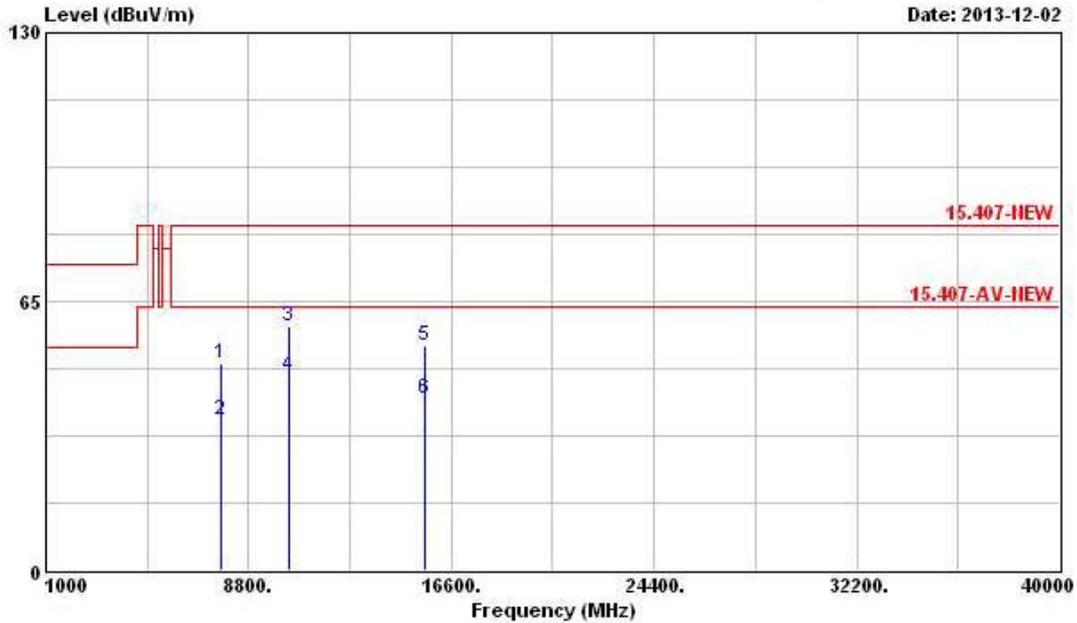
Line	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8020.000	50.21	-33.33	83.54	42.45	37.60	5.32	35.16	Peak	---
2	8020.000	36.32	-27.22	63.54	28.56	37.60	5.32	35.16	Average	---
3	10380.000	63.27	-20.27	83.54	53.46	38.49	6.35	35.03	Peak	---
4	10380.000	51.71	-11.83	63.54	41.90	38.49	6.35	35.03	Average	---
5	15570.000	41.55	-21.99	63.54	30.42	38.03	7.96	34.86	Average	---
6	15570.000	53.72	-29.82	83.54	42.59	38.03	7.96	34.86	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)
 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.
 Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
 Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT40	Test Freq. (MHz)	5190
N _{TX}	1	Polarization	H



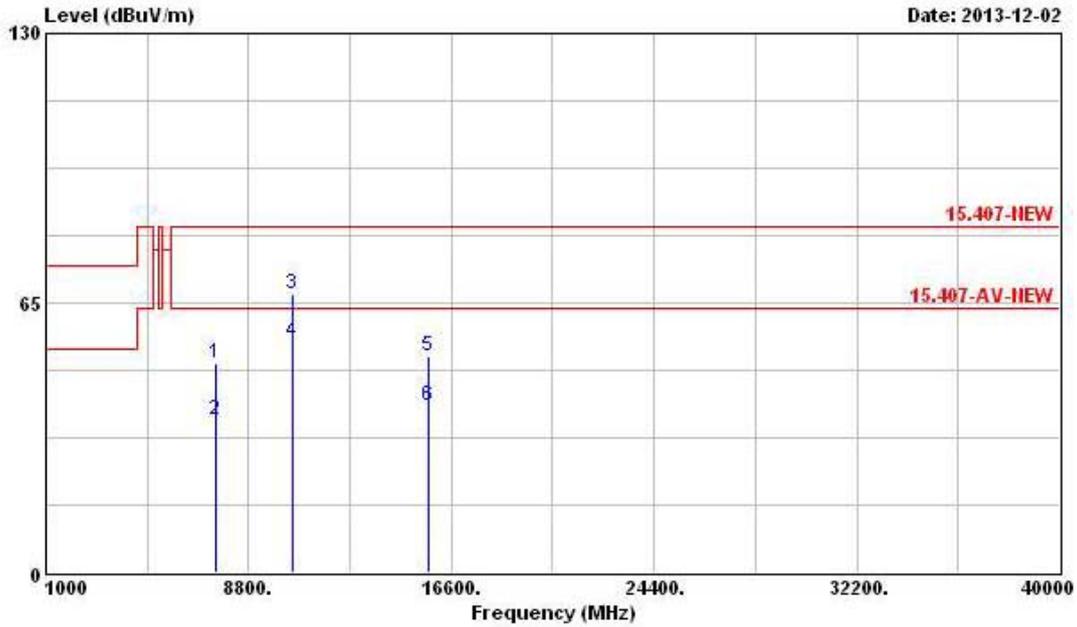
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7710.000	49.96	-33.58	83.54	41.94	37.54	5.54	35.06	Peak	---
2	7710.000	36.29	-27.25	63.54	28.27	37.54	5.54	35.06	Average	---
3	10380.000	59.17	-24.37	83.54	49.36	38.49	6.35	35.03	Peak	---
4	10380.000	46.94	-16.60	63.54	37.13	38.49	6.35	35.03	Average	---
5	15570.000	54.32	-29.22	83.54	43.19	38.03	7.96	34.86	Peak	---
6	15570.000	41.48	-22.06	63.54	30.35	38.03	7.96	34.86	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	V



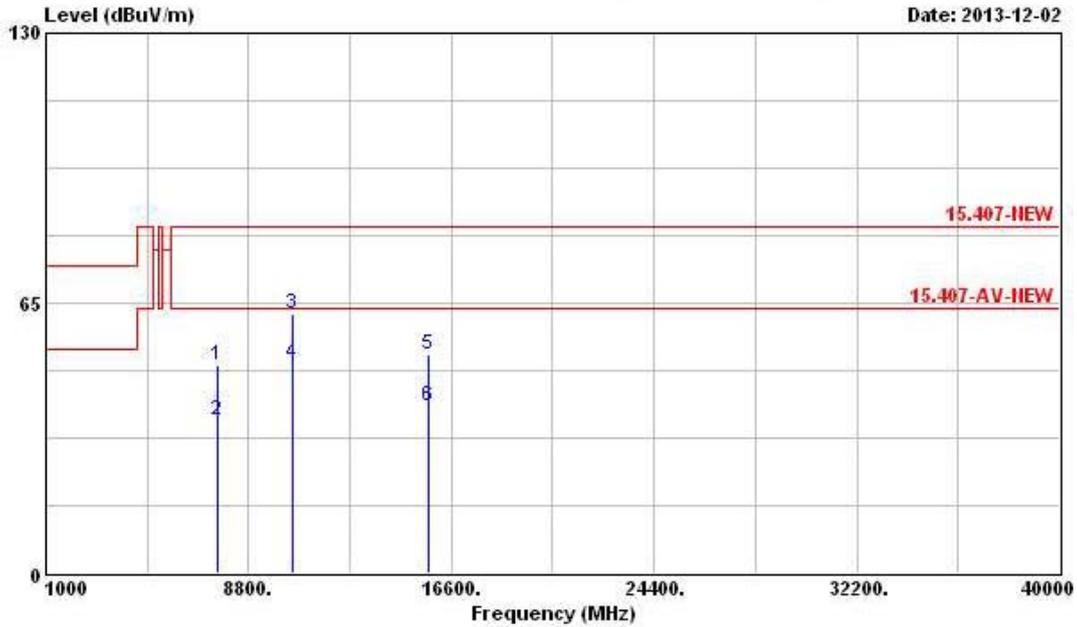
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7550.000	50.51	-33.03	83.54	42.33	37.51	5.68	35.01 Peak	---	---
2	7550.000	36.68	-26.86	63.54	28.50	37.51	5.68	35.01 Average	---	---
3	10460.000	67.10	-16.44	83.54	57.32	38.44	6.30	34.96 Peak	---	---
4	10460.000	55.70	-7.84	63.54	45.92	38.44	6.30	34.96 Average	---	---
5	15690.000	52.09	-31.45	83.54	41.32	37.91	7.86	35.00 Peak	---	---
6	15690.000	40.23	-23.31	63.54	29.46	37.91	7.86	35.00 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	H



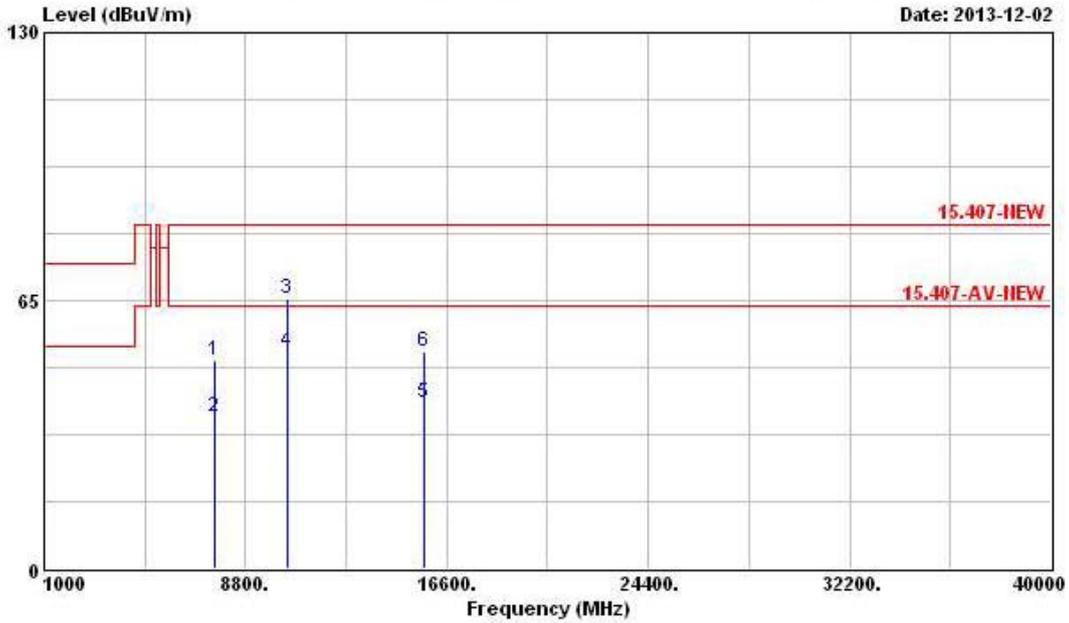
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7630.000	50.08	-33.46	83.54	41.97	37.53	5.61	35.03	Peak	---
2	7630.000	36.86	-26.68	63.54	28.75	37.53	5.61	35.03	Average	---
3	10460.000	62.43	-21.11	83.54	52.65	38.44	6.30	34.96	Peak	---
4	10460.000	50.65	-12.89	63.54	40.87	38.44	6.30	34.96	Average	---
5	15690.000	52.49	-31.05	83.54	41.72	37.91	7.86	35.00	Peak	---
6	15690.000	40.08	-23.46	63.54	29.31	37.91	7.86	35.00	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT80	Test Freq. (MHz)	5210
N _{TX}	1	Polarization	V



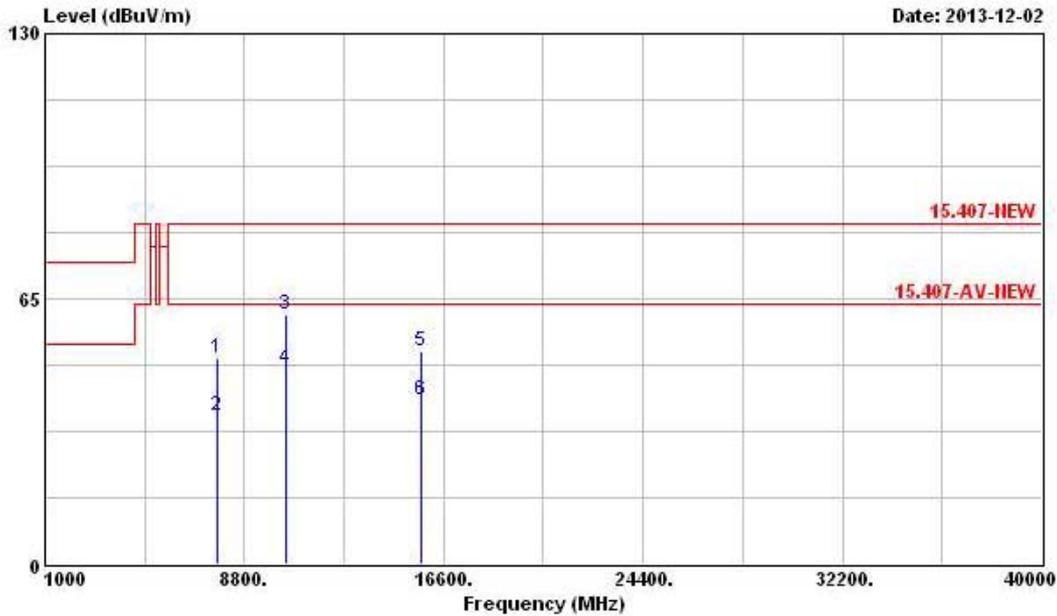
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7605.000	50.50	-33.04	83.54	42.36	37.52	5.64	35.02	Peak	---	---
2	7605.000	36.86	-26.68	63.54	28.72	37.52	5.64	35.02	Average	---	---
3	10420.000	65.22	-18.32	83.54	55.42	38.47	6.33	35.00	Peak	---	---
4	10420.000	52.60	-10.94	63.54	42.80	38.47	6.33	35.00	Average	---	---
5	15720.000	40.14	-23.40	63.54	29.43	37.88	7.86	35.03	Average	---	---
6	15720.000	52.50	-31.04	83.54	41.79	37.88	7.86	35.03	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)
- 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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.



Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT80	Test Freq. (MHz)	5210
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	7740.000	50.34	-33.20	83.54	42.35	37.55	5.51	35.07	Peak	---	---
2	7740.000	36.41	-27.13	63.54	28.42	37.55	5.51	35.07	Average	---	---
3	10420.000	61.00	-22.54	83.54	51.20	38.47	6.33	35.00	Peak	---	---
4	10420.000	47.94	-15.60	63.54	38.14	38.47	6.33	35.00	Average	---	---
5	15720.000	52.38	-31.16	83.54	41.67	37.88	7.86	35.03	Peak	---	---
6	15720.000	40.07	-23.47	63.54	29.36	37.88	7.86	35.03	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.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

3.8 Frequency Stability

3.8.1 Frequency Stability Limit

Frequency Stability Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	N/A
IEEE Std. 802.11n-2009	
<input checked="" type="checkbox"/>	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.

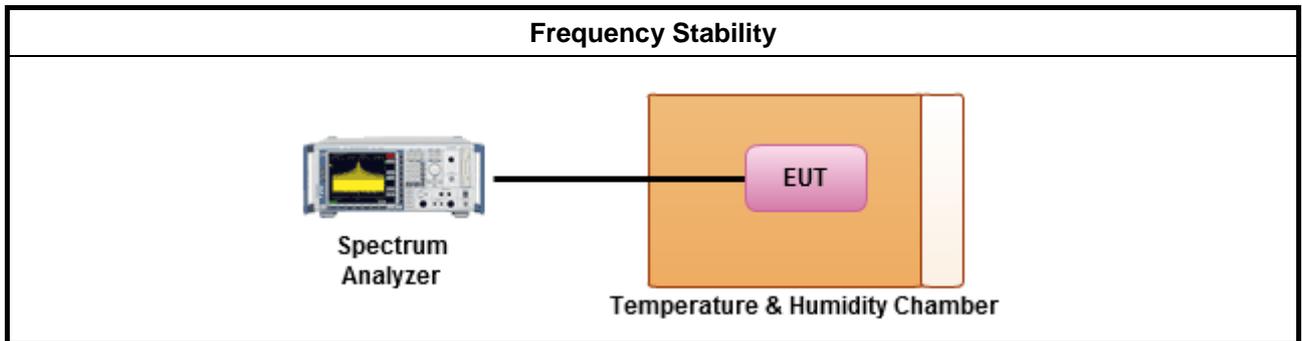
3.8.2 Measuring Instruments

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

3.8.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
<input checked="" type="checkbox"/>	Frequency stability with respect to ambient temperature
<input checked="" type="checkbox"/>	Frequency stability when varying supply voltage
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
<input type="checkbox"/>	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



3.8.5 Test Result of Frequency Stability

Frequency Stability Result			
Mode		Frequency Stability (ppm)	
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)
T20°CVmax	5180	5180.02520	4.8649
T20°CVmin	5180	5180.02520	4.8649
T50°CVnom	5180	5179.99880	-0.2317
T40°CVnom	5180	5180.00000	0.0000
T30°CVnom	5180	5180.00840	1.6216
T20°CVnom	5180	5180.02520	4.8649
T10°CVnom	5180	5180.03600	6.9498
T0°CVnom	5180	5180.03960	7.6448
T-10°CVnom	5180	5180.03900	7.5290
T-20°CVnom	5180	5180.03720	7.1815
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 1.1.6 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	Oct. 30, 2013	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	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	FSV 40	101013	9KHz~40GHz	Jan. 29, 2013	Conducted (TH01-HY)
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 16, 2013	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100°C	Nov. 21, 2013	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 27, 2013	Conducted (TH01-HY)
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	30MHz ~ 26.5GHz	Dec. 02, 2013	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	Oct. 03, 2013	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 17, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 28, 2013	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3115	6744	1GHz ~ 18GHz	Mar. 18, 2013	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. 09, 2013	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. 10, 2013	Radiation (03CH02-HY)
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	MF	MF7802	MF780208205	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
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2013	Radiation (03CH02-HY)
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.