

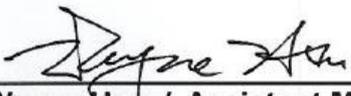
FCC Test Report

Equipment : Personal Computer
Brand Name : SONY
Model No. : SVT212A12L
FCC ID : AK8SVT212A12L
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
FCC Classification : NII
Applicant : Sony Corporation
Manufacturer : 1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan
Operate Mode : Client without radar detection

The product sample received on Jun. 10, 2013 and completely tested on Jul. 29, 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
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.1844300MHz 37.67 (Margin 16.61dB) - AV 54.21 (Margin 10.07dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:27.01 / 40M:41.64	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz:16.54 5250-5350MHz:19.37 5470-5725MHz:19.14	Power [dBm] 5150-5250MHz:17 5250-5350MHz:24 5470-5725MHz:24	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5150-5250MHz:3.98 5250-5350MHz:7.92 5470-5725MHz:7.57	PPSD [dBm/MHz] 5150-5250MHz:4 5250-5350MHz:11 5470-5725MHz:11	Complied
3.5	15.407(a)	Peak Excursion	8.82 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Bandedge Emissions	Restricted Bands [dBuV/m at 1m]: 5149.06MHz 80.17 (Margin 3.37dB) - PK 62.51 (Margin 1.03dB) - AV	Non-Restricted Bands: ≤ -27dBm (77.84dBuV/m@1m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 1m]: 39.700MHz 36.84 (Margin 3.16dB) - PK	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	4.0717 ppm	Signal shall remain in-band	Complied

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)	Co-location
5150-5250	a	5180-5240	36-48 [4]	1	14.93	Yes
5250-5350		5260-5320	52-64 [4]	1	16.48	Yes
5470-5725		5500-5700	100-140 [8]	1	16.47	Yes
5150-5250	n (HT20)	5180-5240	36-48 [4]	1	15.07	Yes
5250-5350		5260-5320	52-64 [4]	1	16.43	Yes
5470-5725		5500-5700	100-140 [8]	1	16.44	Yes
5150-5250		5180-5240	36-48 [4]	2	15.54	Yes
5250-5350		5260-5320	52-64 [4]	2	19.37	Yes
5470-5725		5500-5700	100-140 [8]	2	19.14	Yes
5150-5250		n (HT40)	5190-5230	38-46 [2]	1	16.27
5250-5350	5270-5310		54-62 [2]	1	16.43	Yes
5470-5725	5510-5670		102-134 [3]	1	16.39	Yes
5150-5250	5190-5230		38-46 [2]	2	16.54	Yes
5250-5350	5270-5310		54-62 [2]	2	17.67	Yes
5470-5725	5510-5670		102-134 [3]	2	18.43	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 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

1.1.2 Antenna Information

Antenna Category	
<input checked="" type="checkbox"/>	Integral antenna (antenna permanently attached)
<input checked="" type="checkbox"/>	Temporary RF connector provided
<input type="checkbox"/>	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.

Antenna General Information			
No.	Ant. Cat.	Ant. Type	Gain (dBi)
1	Integral	PIFA	-5.42

1.1.3 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:

1.1.4 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% - IEEE 802.11a	0
<input checked="" type="checkbox"/> 100% - IEEE 802.11n (HT20)	0
<input checked="" type="checkbox"/> 100% - IEEE 802.11n (HT40)	0

1.1.5 EUT Operational Condition

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

1.1.6 DFS and TPC Information

The DFS Related Operating Mode(s) of the Equipment			
<input type="checkbox"/>	Master		
<input type="checkbox"/>	Cilent with radar detection		
<input checked="" type="checkbox"/>	Cilent without radar detection		
Software / Firmware Version	16.0.0.49		
Communication Mode	<input checked="" type="checkbox"/> IP Based	<input type="checkbox"/> Frame Based	
IEEE Std. 802.11	Frequency Range (MHz)	TPC (Transmit Power Control)	Passive Scan
a / n (HT20)	<input checked="" type="checkbox"/> 5250-5350	Yes	Yes
n (HT40)	<input checked="" type="checkbox"/> 5470-5725	Yes	Yes



1.2 Accessories

Accessories Information				
AC Adapter	Brand Name	SONY	Model Name	VGP-AC19V48
	Power Rating	I/P: 100-240V ~ 1.5A 50/60Hz ; O/P: 19.5V $\overline{\text{---}}$ 3.3A		
Li-ion Battery	Brand Name	SONY	Model Name	VGP-BPS34
	Power Rating	11.4V $\overline{\text{---}}$ / 3780 mAh / 43 Wh		
2.4G RF receiver	Brand Name	SONY	Model Name	VGP-WRC7

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

1.3 Support Equipment

Support Equipment- AC Line Conducted Emission Test				
No.	Equipment	Brand Name	Model Name	Serial No.
1	Keyboard (Client Provide)	SONY	VGP-WKB15	DoC
2	Mouse (Client Provide)	SONY	VGP-WMS21	DoC
3	(USB) Printer	EPSON	STYLUS C61	DoC
4	iPod Nano	Apple	A1199	DoC
5	Identity Badge	-	-	-
6	SD Card (Insert into EUT)	Transcend	4GB	N/A
7	Wireless AP (Remote Workstation)	ZO TECH	WR110B	DoC
8	Bluetooth Headset (Remote Workstation)	SONY	Z354	DoC

Support Equipment- Radiated Emission Test				
No.	Equipment	Brand Name	Model Name	Serial No.
1	Keyboard (Client Provide)	SONY	VGP-WKB15	DoC
2	Mouse (Client Provide)	SONY	VGP-WMS21	DoC
3	(USB) Printer	EPSON	C61	DoC
4	iPod Nano	Apple	A1199	DoC
5	Identity Badge	-	-	-
6	SD Card (Insert into EUT)	Transcend	4GB	N/A

1.4 Testing Applied Standards

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

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

1.5 Testing Location Information

Testing Location				
<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	Test Date
AC Conduction	CO04-HY	Zeus	22.1°C / 54%	Jul. 24, 2013
RF Conducted	TH01-HY	Cain	22.7°C / 37%	Jun. 28, 2013 Jul. 29, 2013
Radiated Emission	03CH03-HY	Daniel	23°C / 55%	Jun. 27, 2013 ~ Jun. 30, 2013 Jul. 01, 2013 ~ Jul. 02, 2013 Jul. 19, 2013 ~ Jul. 23, 2013

1.6 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS
11a,6-54Mbps	1	6-54Mbps	6 Mbps
HT20,M0-7	1	M0-7	MCS 0
HT40,M0-7	1	M0-7	MCS 0
HT20,M8-15	2	M8-15	MCS 8
HT40,M8-15	2	M8-15	MCS 8

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)						
Test Software Version	DRTU					
Modulation Mode	N _{TX}	Test Frequency (MHz)				
		NCB: 20MHz			NCB: 40MHz	
		5180	5200	5240	5190	5230
11a,6-54Mbps	1	28	28	28	-	-
HT20,M0-7	1	28	28	28	-	-
HT40,M0-7	1	-	-	-	25.5	30
HT20,M8-15	2	30;30	30;30	29.5;29.5	-	-
HT40,M8-15	2	-	-	-	27.5;27.5	31;32

The Worst Case Power Setting Parameter (5250-5350MHz band)						
Test Software Version	DRTU					
Modulation Mode	N _{TX}	Test Frequency (MHz)				
		NCB: 20MHz			NCB: 40MHz	
		5260	5300	5320	5270	5310
11a,6-54Mbps	1	30	30	27.5	-	-
HT20,M0-7	1	30	30	28.5	-	-
HT40,M0-7	1	-	-	-	30	27
HT20,M8-15	2	34.5;36.5	35;37	31;31	-	-
HT40,M8-15	2	-	-	-	32.5;32.5	29;29

The Worst Case Power Setting Parameter (5470-5725MHz band)							
Test Software Version	DRTU						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		5500	5580	5700	5510	5550	5670
11a,6-54Mbps	1	29.5	30.5	27	-	-	-
HT20,M0-7	1	29.5	30.5	26.5	-	-	-
HT40,M0-7	1	-	-	-	25.5	30	31
HT20,M8-15	2 30.	5;30.5	34.5;35	26;26	-	-	-
HT40,M8-15	2	-	-	-	24.5;24.5	35;35	33;33

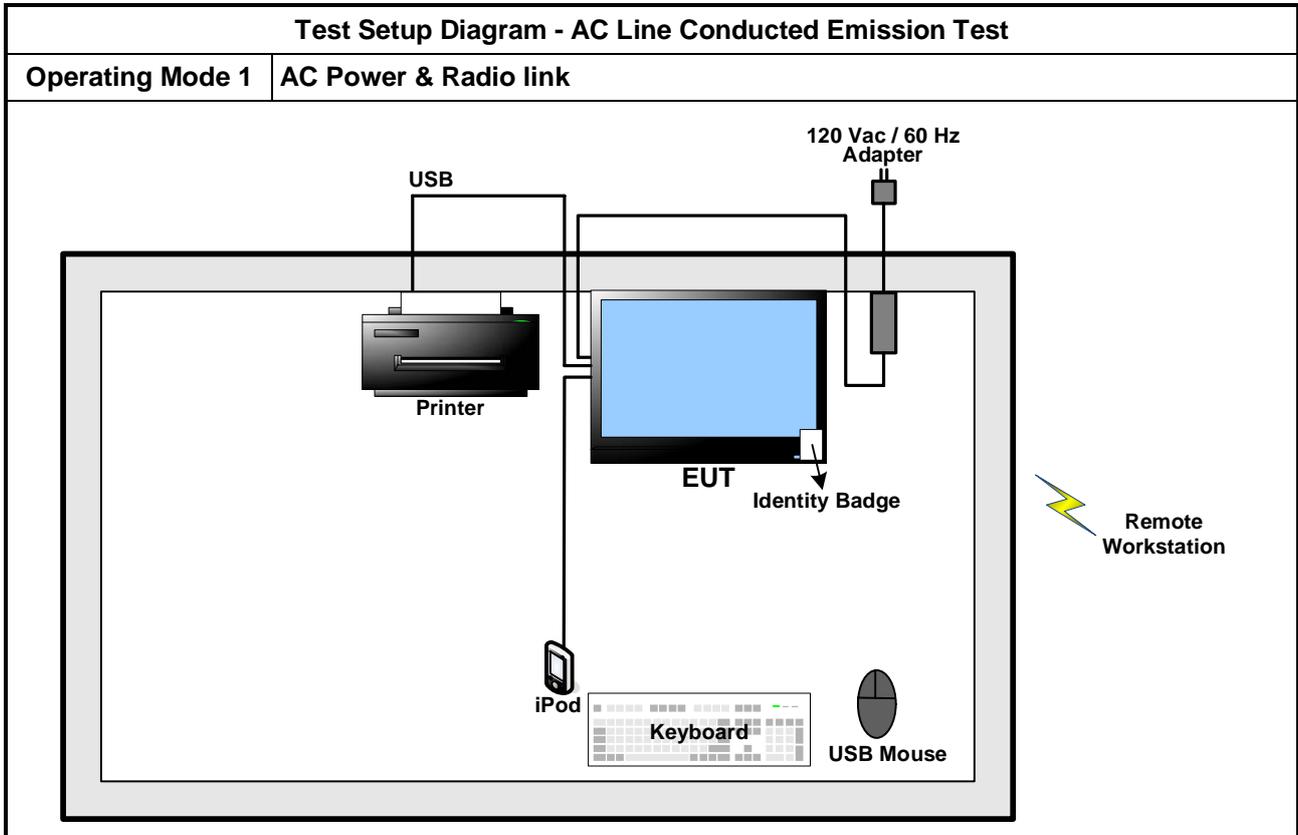
2.3 The Worst Case Measurement Configuration

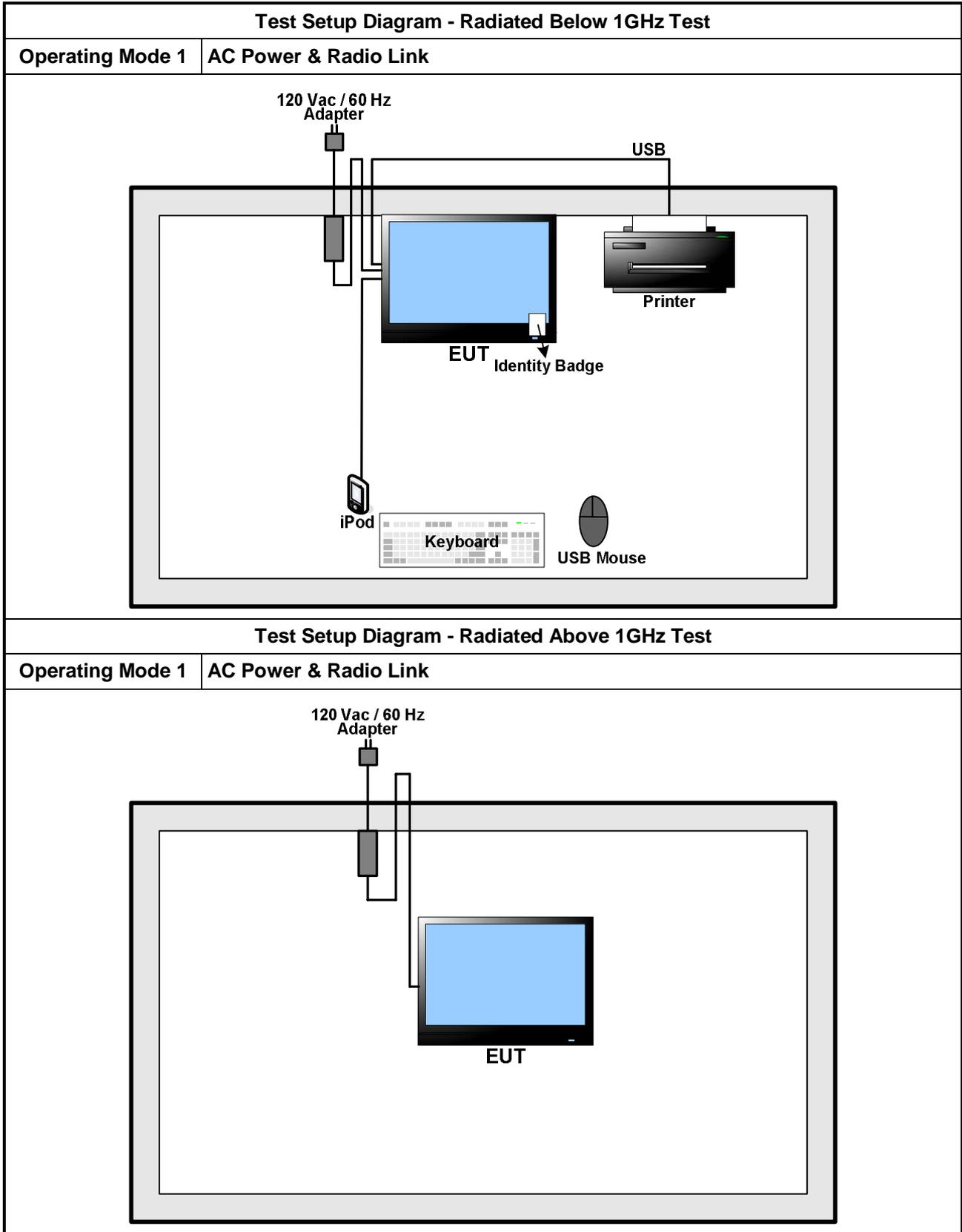
The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	AC Power & Radio link

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions
Test Condition	Radiated measurement
User Position	<input checked="" type="checkbox"/> EUT will be placed in fixed position.
	<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 < 1GHz	<input checked="" type="checkbox"/> 1. AC Power & Radio Link
Modulation Mode	11a, HT20, HT40

2.4 Test Setup Diagram





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.

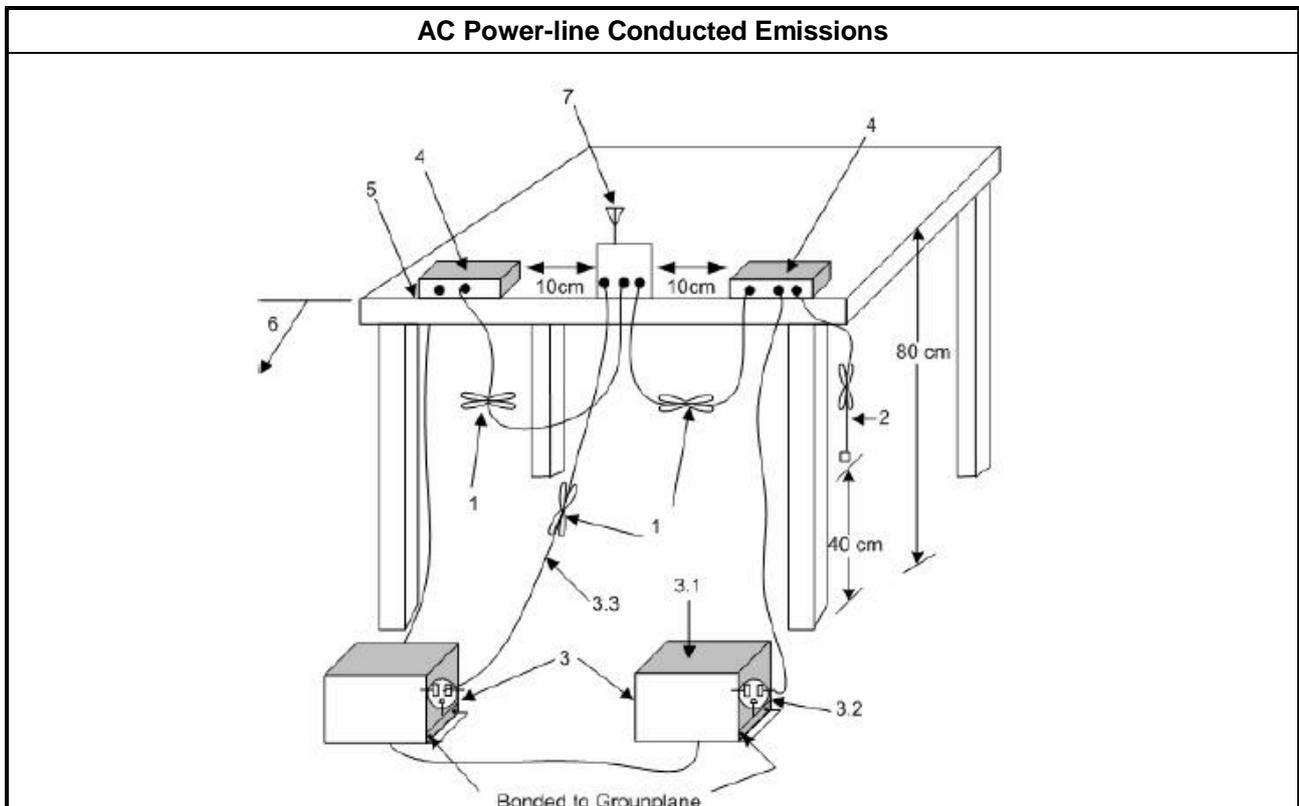
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

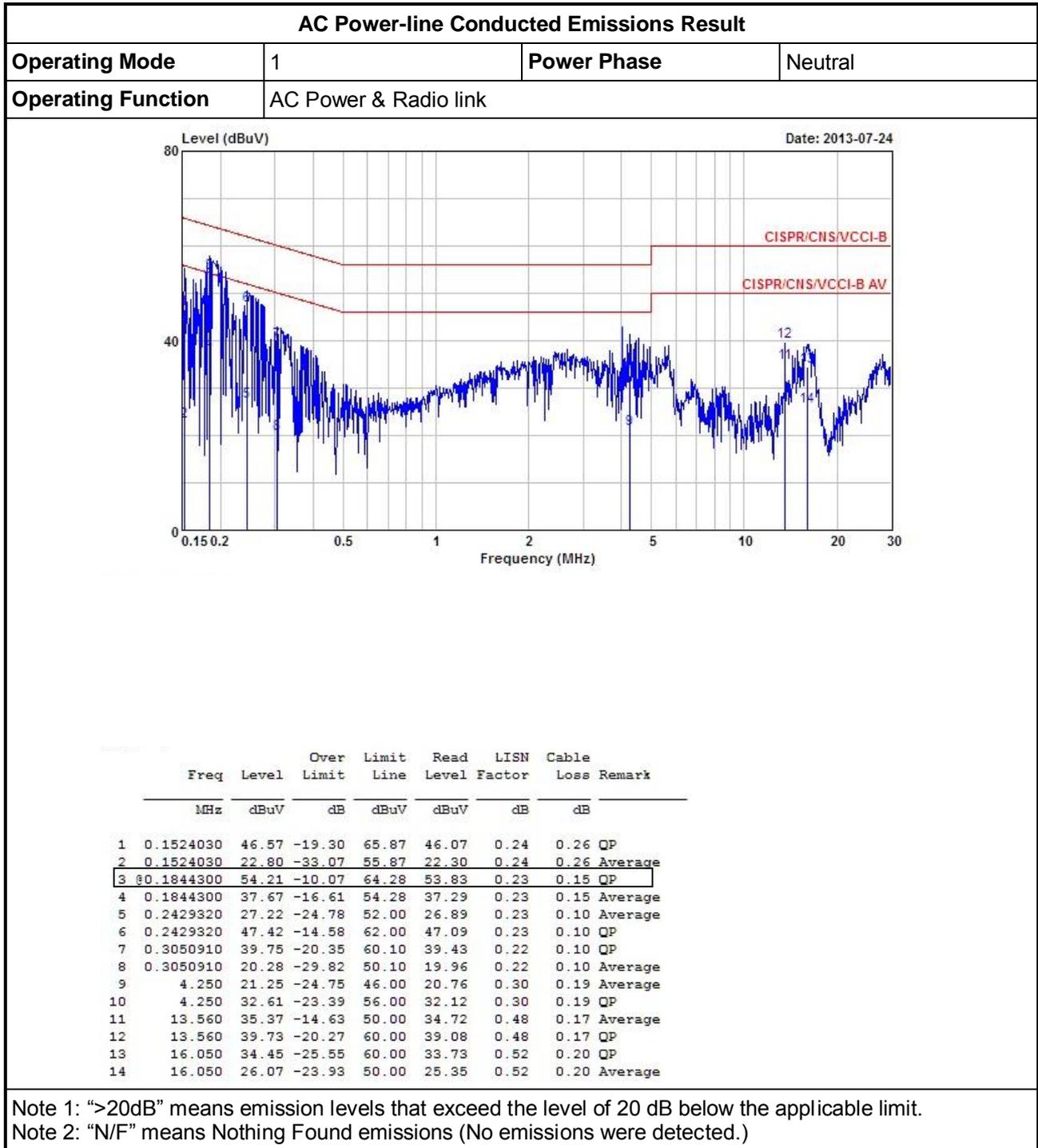
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

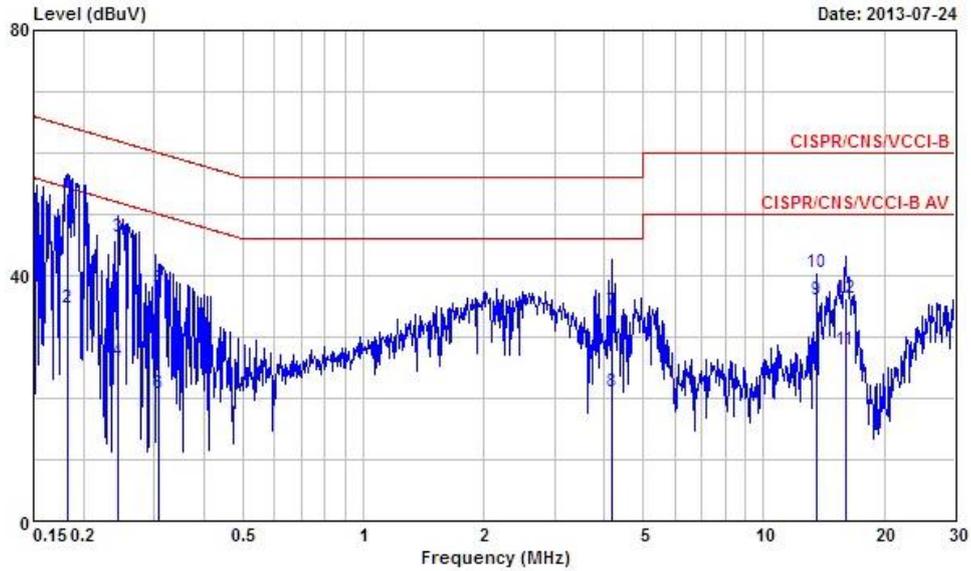




3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result			
Operating Mode	1	Power Phase	Line
Operating Function	AC Power & Radio link		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.1824860	53.43	-10.94	64.37	53.17	0.11	0.15	QP
2	0.1824860	34.62	-19.75	54.37	34.36	0.11	0.15	Average
3	0.2429320	46.21	-15.79	62.00	46.00	0.11	0.10	QP
4	0.2429320	26.13	-25.87	52.00	25.92	0.11	0.10	Average
5	0.3083410	37.88	-22.14	60.02	37.68	0.10	0.10	QP
6	0.3083410	20.73	-29.29	50.02	20.53	0.10	0.10	Average
7	4.180	34.21	-21.79	56.00	33.86	0.15	0.20	QP
8	4.180	20.99	-25.01	46.00	20.64	0.15	0.20	Average
9	13.560	35.94	-14.06	50.00	35.50	0.27	0.17	Average
10	13.560	40.50	-19.50	60.00	40.06	0.27	0.17	QP
11	15.970	27.92	-22.08	50.00	27.43	0.29	0.20	Average
12	15.970	36.35	-23.65	60.00	35.86	0.29	0.20	QP

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

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

Emission Bandwidth (EBW) Limit	
UNII Devices	
<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 checked="" 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 checked="" 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 checked="" 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 checked="" 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.

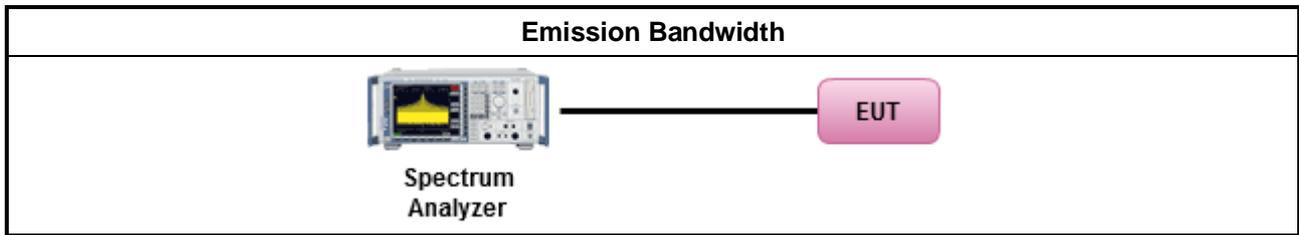
3.2.2 Measuring Instruments

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.
<input checked="" type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" 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 checked="" 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 2	Chain- Port 1	Chain- Port 2	99% BW	26dB BW
11a	1	5180	16.52		21.42		16.18	17.31
11a	1	5200	16.64		20.53		16.21	17.12
11a	1	5240	16.59		23.68		16.20	17.74
HT20	1	5180	17.94		21.51		16.54	17.33
HT20	1	5200	17.90		21.46		16.53	17.32
HT20	1	5240	17.94		21.72		16.54	17.37
HT40	1	5190	36.10		42.24		19.58	20.26
HT40	1	5230	36.26		43.48		19.59	20.38
Result			Complied					

Note 1: N_{TX} = Number of Transmit Chains

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 2	Chain Port 1	Chain Port 2	99% BW	26dB BW
HT20	2	5180	17.93	17.90	22.57	21.96	16.53	17.42
HT20	2	5200	18.08	17.66	23.26	20.65	16.47	17.15
HT20	2	5240	17.84	17.73	21.93	21.07	16.49	17.24
HT40	2	5190	36.14	36.14	42.12	43.12	19.58	20.24
HT40	2	5230	36.14	36.14	43.88	41.68	19.58	20.20
Result			Complied					

Note 1: N_{TX} = Number of Transmit Chains



UNII Emission Bandwidth Result (5250-5350MHz band)								
Condition			Emission Bandwidth (MHz)					
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth		26dB Bandwidth		Power Limit	
			Chain Port 1	Chain Port 2	Chain- Port 1	Chain- Port 2	99% BW	26dB BW
11a	1	5260	16.64		23.31		23.21	24.68
11a	1	5300	16.67		21.42		23.22	24.31
11a	1	5320	16.47		22.65		23.17	24.55
HT20	1	5260	18.20		25.14		23.60	25.00
HT20	1	5300	18.11		23.94		23.58	24.79
HT20	1	5320	17.84		23.77		23.51	24.76
HT40	1	5270	36.14		43.16		26.58	27.35
HT40	1	5310	36.06		44.88		26.57	27.52
Result			Complied					
Note 1: N _{TX} = Number of Transmit Chains								

UNII Emission Bandwidth Result (5250-5350MHz band)								
Condition			Emission Bandwidth (MHz)					
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth		26dB Bandwidth		Power Limit	
			Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2	99% BW	26dB BW
HT20	2	5260	17.88	18.03	23.05	27.01	23.52	24.63
HT20	2	5300	17.97	17.96	24.27	25.96	23.54	24.85
HT20	2	5320	17.87	18.12	22.56	22.38	23.52	24.50
HT40	2	5270	36.10	36.10	44.32	41.40	26.58	27.17
HT40	2	5310	36.02	35.98	41.04	41.40	26.56	27.13
Result			Complied					
Note 1: N _{TX} = Number of Transmit Chains								



UNII Emission Bandwidth Result (5470-5725MHz band)								
Condition			Emission Bandwidth (MHz)					
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth		26dB Bandwidth		Power Limit	
			Chain Port 1	Chain Port 2	Chain- Port 1	Chain- Port 2	99% BW	26dB BW
11a	1	5500	16.64		21.82		23.21	24.39
11a	1	5580	16.52		22.26		23.18	24.48
11a	1	5700	16.73		23.71		23.23	24.75
HT20	1	5500	17.85		23.94		23.52	24.79
HT20	1	5580	17.78		23.77		23.50	24.76
HT20	1	5700	17.94		24.25		23.54	24.85
HT40	1	5510	36.14		43.64		26.58	27.40
HT40	1	5550	36.14		44.68		26.58	27.50
HT40	1	5670	36.18		42.00		26.58	27.23
Result			Complied					

Note 1: N_{TX} = Number of Transmit Chains

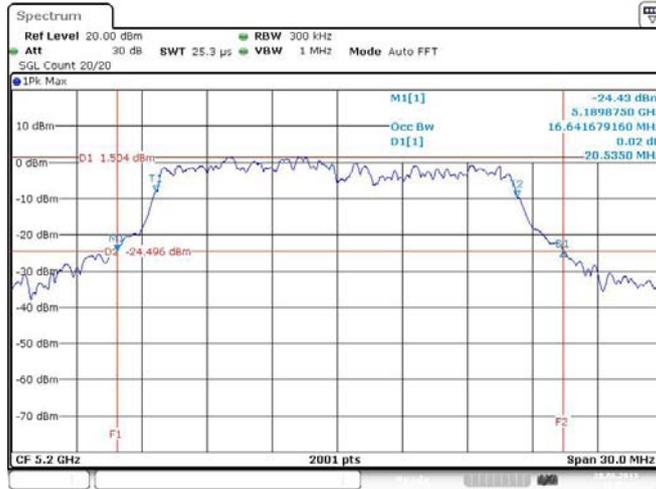
UNII Emission Bandwidth Result (5470-5725MHz band)								
Condition			Emission Bandwidth (MHz)					
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth		26dB Bandwidth		Power Limit	
			Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2	99% BW	26dB BW
HT20	2	5500	17.81	17.72	23.25	23.43	23.48	24.66
HT20	2	5580	17.96	18.41	24.22	24.45	23.54	24.84
HT20	2	5700	18.06	17.90	22.98	21.07	23.53	24.24
HT40	2	5510	36.02	36.02	42.28	41.68	26.57	27.20
HT40	2	5550	36.46	36.22	51.84	44.60	26.59	27.49
HT40	2	5670	36.10	36.14	41.64	42.44	26.58	27.20
Result			Complied					

Note 1: N_{TX} = Number of Transmit Chains



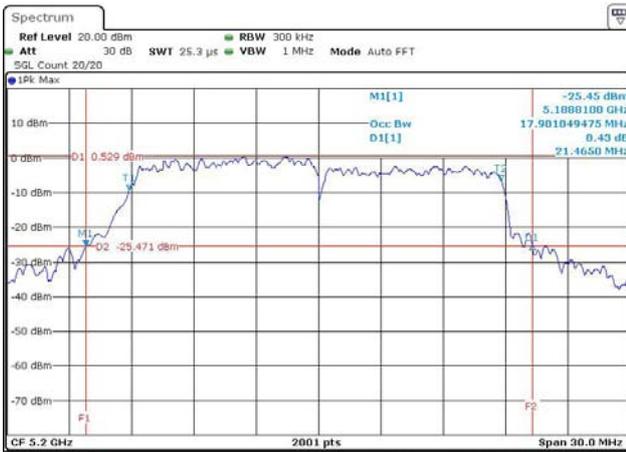
5150-5250MHz - Worst Emission 26dB Bandwidth Plots - N_{TX} 1

11a



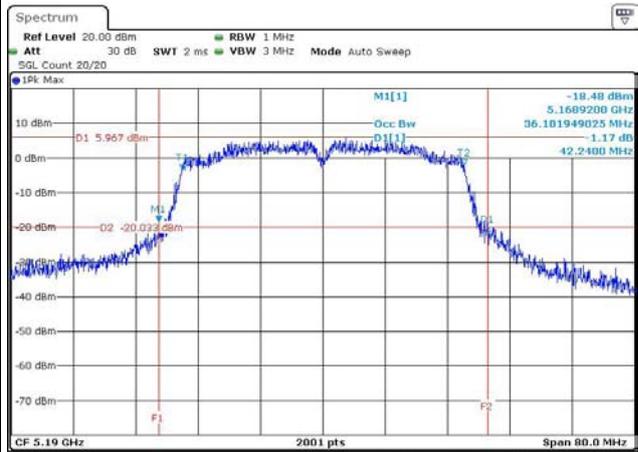
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HT20



Date: 28 JUN 2013 16:50:06

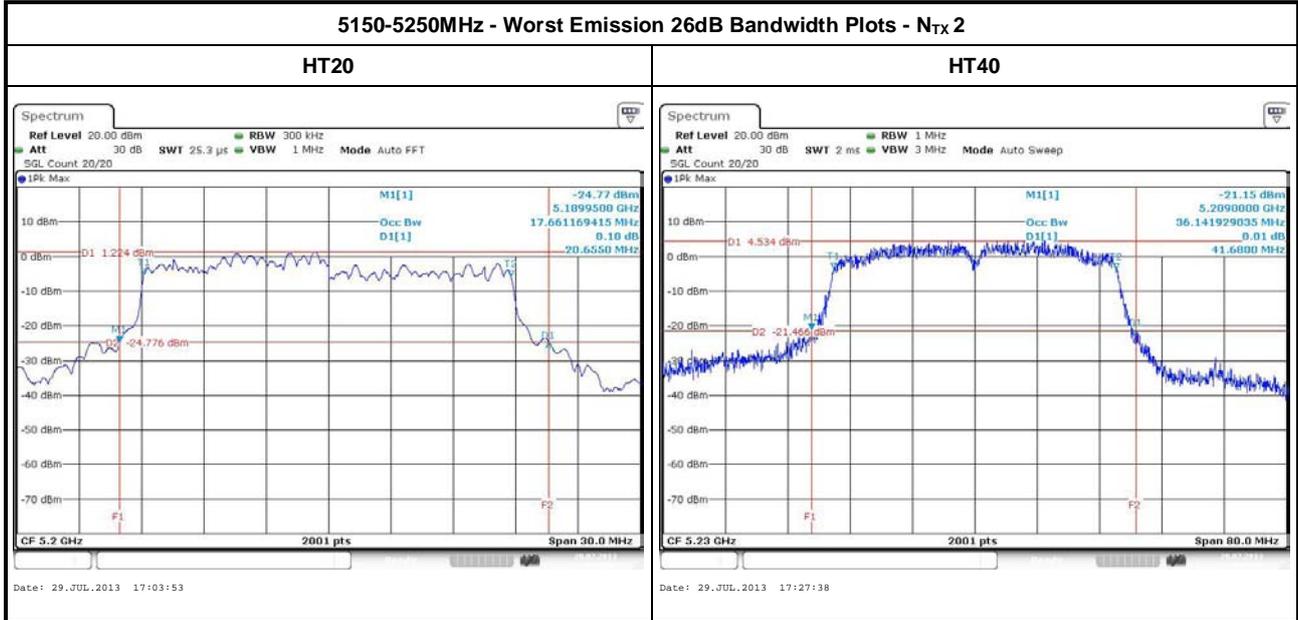
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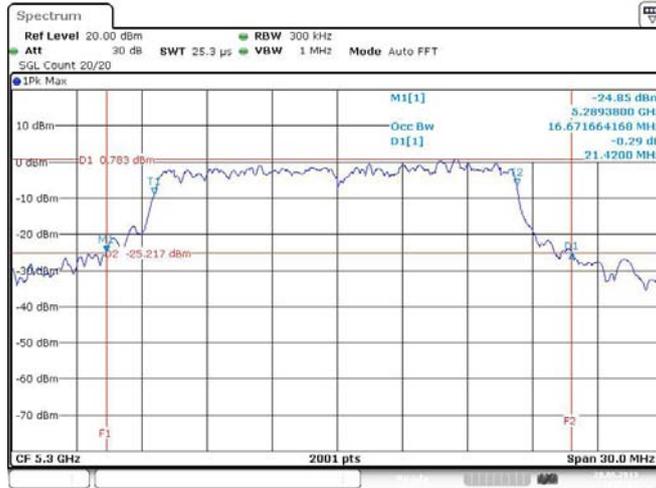
5150-5250MHz - Worst Emission 26dB Bandwidth Plots - N_{TX} 2





5250-5350MHz - Worst Emission 26dB Bandwidth Plots - N_{TX} 1

11a



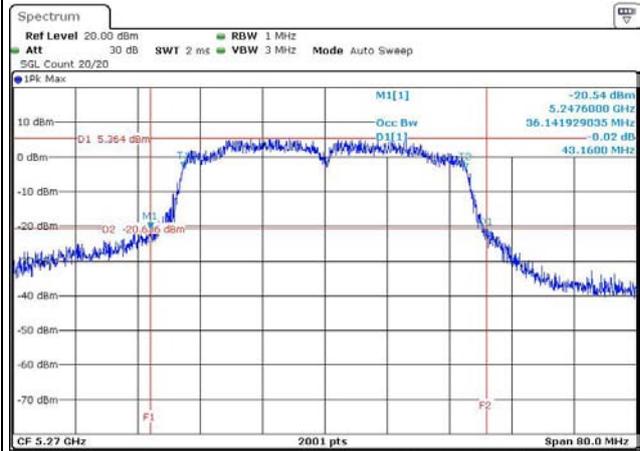
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HT20



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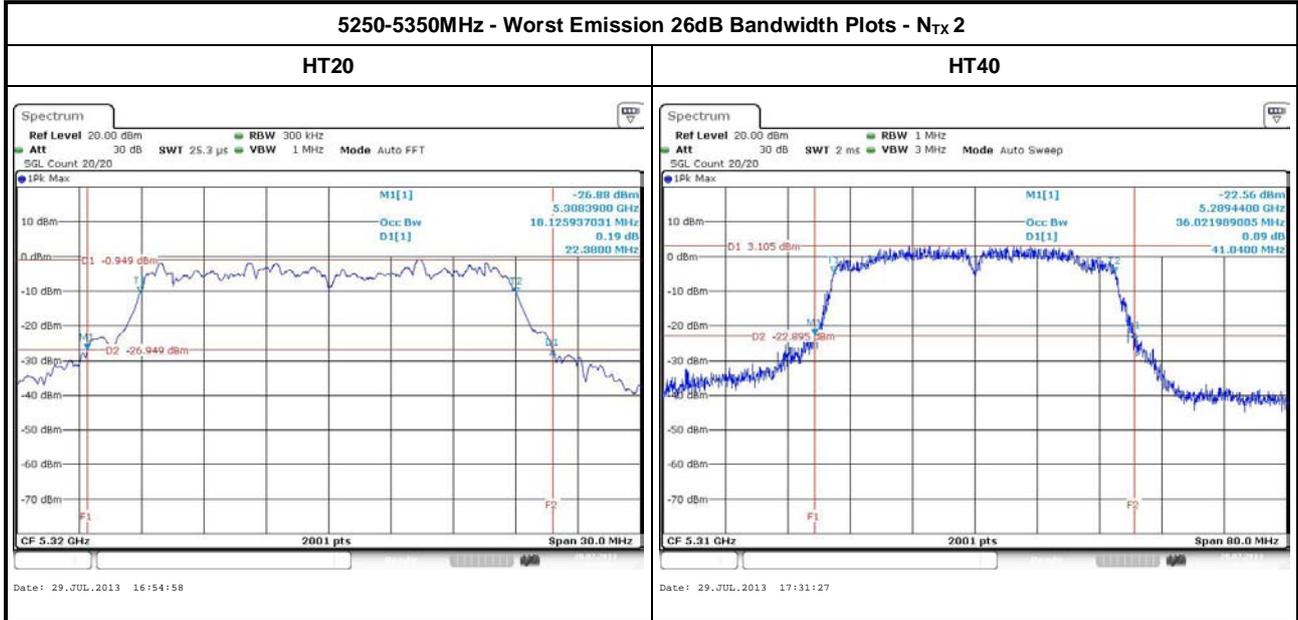
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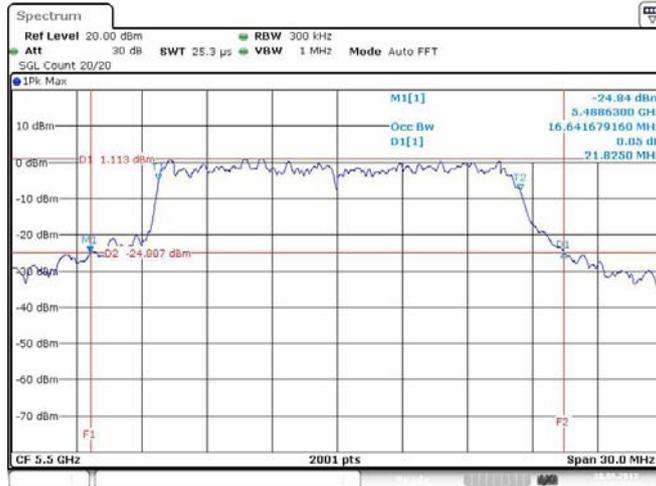
5250-5350MHz - Worst Emission 26dB Bandwidth Plots - N_{TX} 2





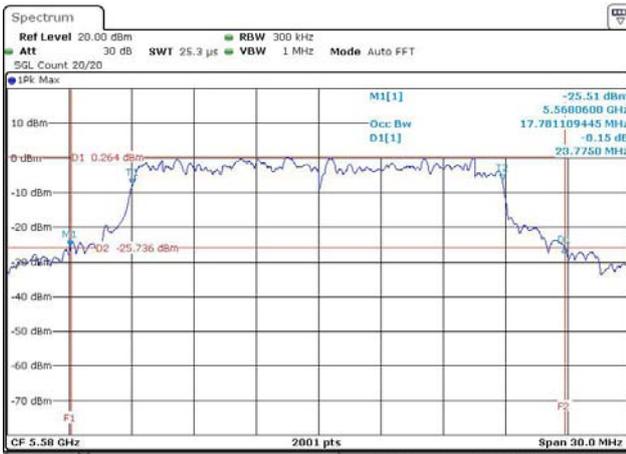
5470-5725MHz - Worst Emission 26dB Bandwidth Plots - N_{TX} 1

11a



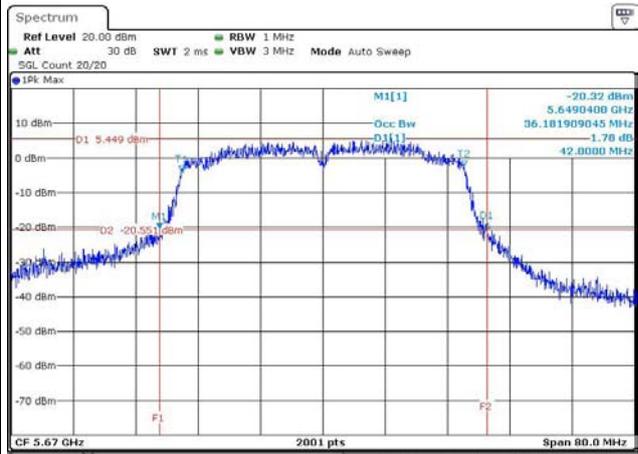
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HT20



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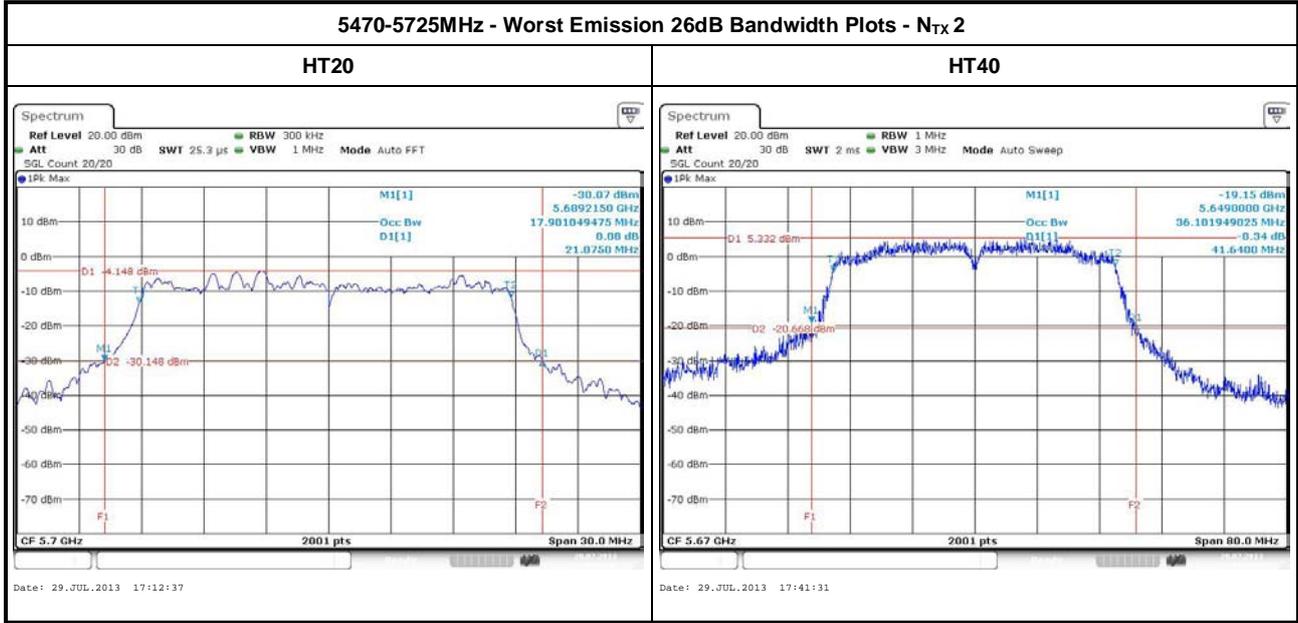
HT40



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5470-5725MHz - Worst Emission 26dB Bandwidth Plots - N_{TX} 2



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 checked="" 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 checked="" 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 checked="" 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 checked="" 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.	

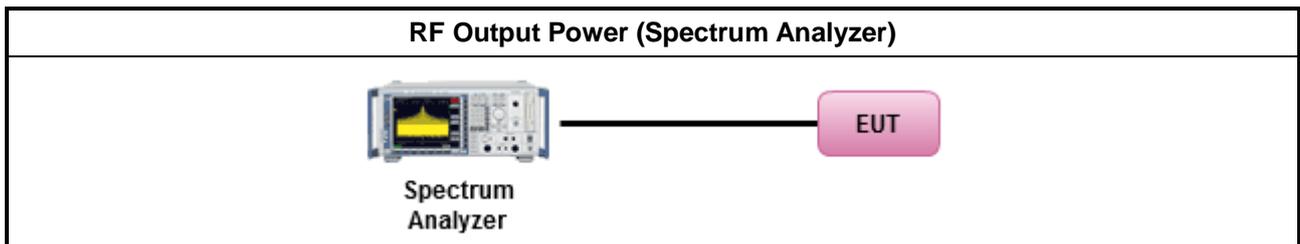
3.3.2 Measuring Instruments

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 ≥ 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.
<input checked="" type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 66291 1, 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 checked="" 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	2	-	-
Maximum G _{ANT} (dBi)	-5.42	-5.42	-	-
Modulation Mode	N _{TX}	N _{SS} (Min.)	Array Gain (dB)	Power DG (dBi) Note ³
11a,6-54Mbps	1	1	-	-5.42
HT20, M0-M7	1	1	-	-5.42
HT40,M0-M7	1	1	-	-5.42
HT20,M8-M15	2	2	0	-5.42
HT40, M8-M15	2	2	0	-5.42

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 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	14.78	17.00	-5.42	9.36	23.0
11a	1	5200	14.93	17.00	-5.42	9.51	23.0
11a	1	5240	14.88	17.00	-5.42	9.46	23.0
HT20	1	5180	14.94	17.00	-5.42	9.52	23.0
HT20	1	5200	15.05	17.00	-5.42	9.63	23.0
HT20	1	5240	15.07	17.00	-5.42	9.65	23.0
HT40	1	5190	13.18	17.00	-5.42	7.76	23.0
HT40	1	5230	16.27	17.00	-5.42	10.85	23.0
Result			Complied				

Maximum Conducted Output Power Result									
Condition			RF Output Power (dBm)						
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT20	2	5180	13.06	11.38	15.31	17.00	-5.42	9.89	23.0
HT20	2	5200	13.34	11.54	15.54	17.00	-5.42	10.12	23.0
HT20	2	5240	12.99	11.38	15.27	17.00	-5.42	9.85	23.0
HT40	2	5190	11.71	9.93	13.92	17.00	-5.42	8.50	23.0
HT40	2	5230	13.60	13.45	16.54	17.00	-5.42	11.12	23.0
Result			Complied						



Maximum Conducted Output Power (5250-5350MHz 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	5260	16.41	24.00	-5.42	10.99	30.0
11a	1	5300	16.09	24.00	-5.42	10.67	30.0
11a	1	5320	14.72	24.00	-5.42	9.30	30.0
HT20	1	5260	16.43	24.00	-5.42	11.01	30.0
HT20	1	5300	16.11	24.00	-5.42	10.69	30.0
HT20	1	5320	15.30	24.00	-5.42	9.88	30.0
HT40	1	5270	16.26	24.00	-5.42	10.84	30.0
HT40	1	5310	14.39	24.00	-5.42	8.97	30.0
Result			Complied				

Maximum Conducted Output Power Result									
Condition			RF Output Power (dBm)						
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT20	2	5260	16.00	16.21	19.12	24.00	-5.42	13.70	30.0
HT20	2	5300	16.31	16.41	19.37	24.00	-5.42	13.95	30.0
HT20	2	5320	13.72	12.49	16.16	24.00	-5.42	10.74	30.0
HT40	2	5270	15.41	13.75	17.67	24.00	-5.42	12.25	30.0
HT40	2	5310	12.39	11.00	14.76	24.00	-5.42	9.34	30.0
Result			Complied						



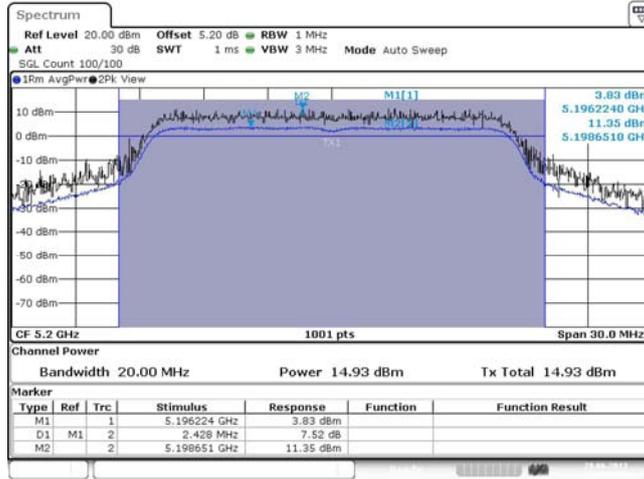
Maximum Conducted Output Power (5470-5725MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{Tx}	Freq. (MHz)	Chain Port 1	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5500	16.47	24.00	-5.42	11.05	30.0
11a	1	5580	16.17	24.00	-5.42	10.75	30.0
11a	1	5700	13.26	24.00	-5.42	7.84	30.0
HT20	1	5500	16.44	24.00	-5.42	11.02	30.0
HT20	1	5580	16.33	24.00	-5.42	10.91	30.0
HT20	1	5700	12.85	24.00	-5.42	7.43	30.0
HT40	1	5510	13.19	24.00	-5.42	7.77	30.0
HT40	1	5550	16.39	24.00	-5.42	10.97	30.0
HT40	1	5670	16.14	24.00	-5.42	10.72	30.0
Result			Complied				

Maximum Conducted Output Power Result									
Condition			RF Output Power (dBm)						
Modulation Mode	N _{Tx}	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT20	2	5500	13.86	12.98	16.45	24.00	-5.42	11.03	30.0
HT20	2	5580	16.21	16.05	19.14	24.00	-5.42	13.72	30.0
HT20	2	5700	8.93	8.40	11.68	24.00	-5.42	6.26	30.0
HT40	2	5510	9.05	8.08	11.60	24.00	-5.42	6.18	30.0
HT40	2	5550	15.62	15.20	18.43	24.00	-5.42	13.01	30.0
HT40	2	5670	14.21	13.92	17.08	24.00	-5.42	11.66	30.0
Result			Complied						



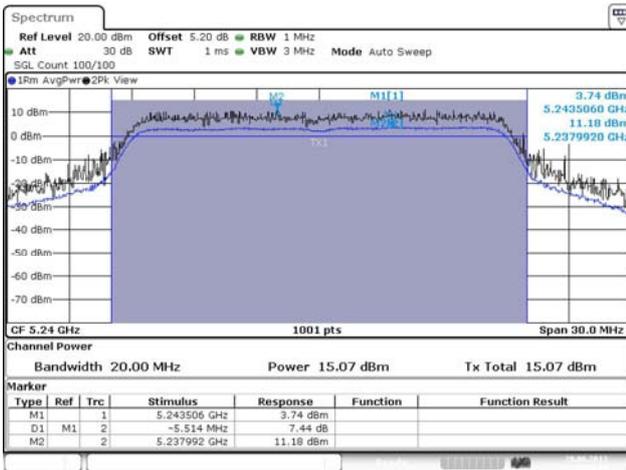
5150-5250MHz - Worst RF Output Power Plots - N_{TX} 1

11a [Port 1]



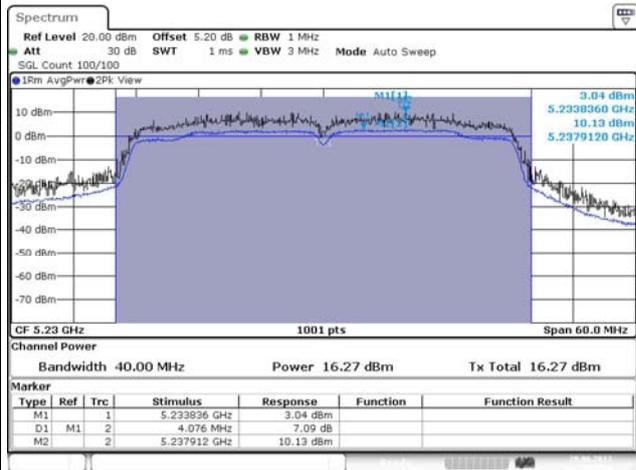
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HT20 [Port 1]



Date: 28.JUN.2013 16:51:16

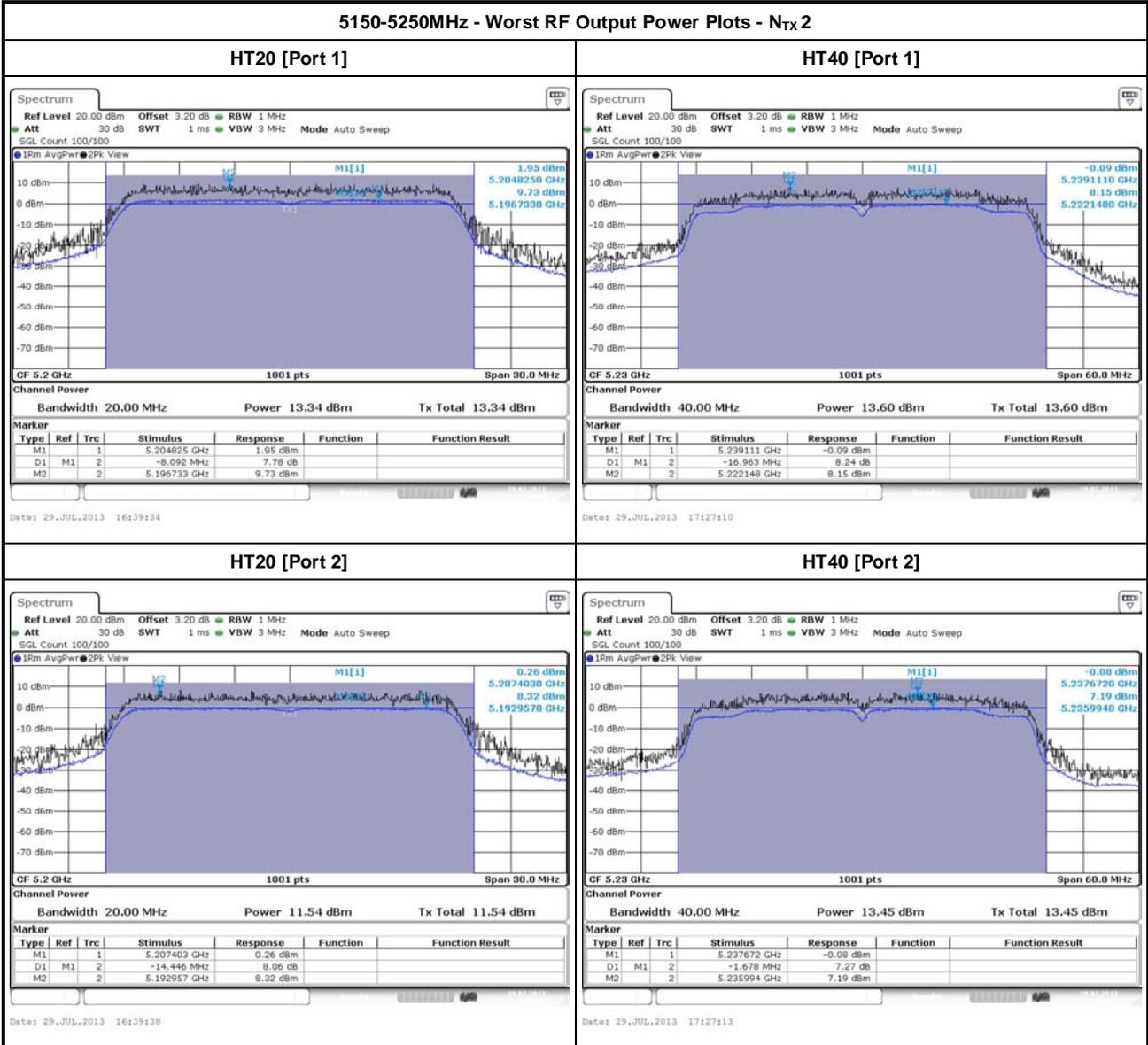
HT40 [Port 1]



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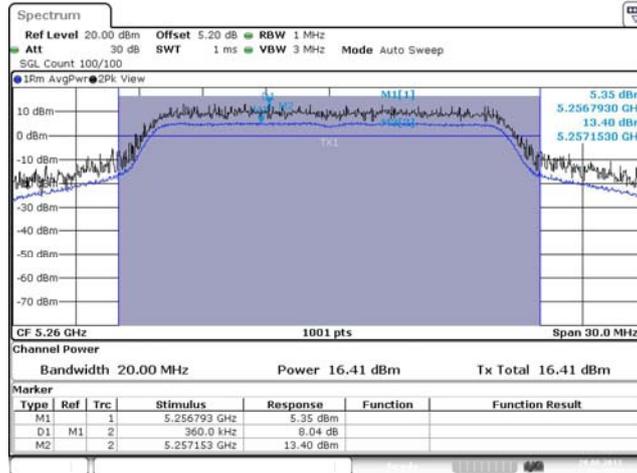
5150-5250MHz - Worst RF Output Power Plots - N_{TX} 2





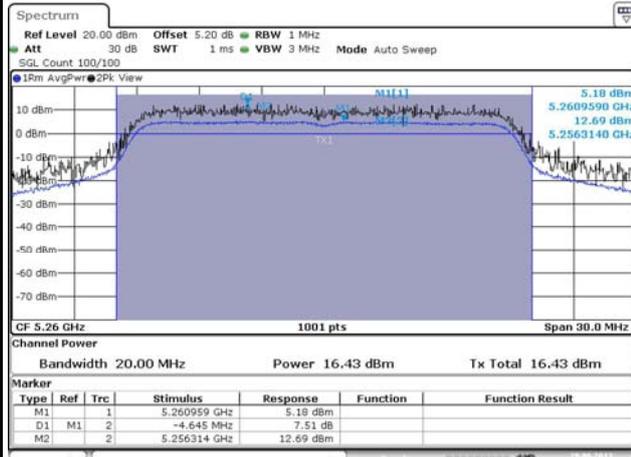
5250-5350MHz - Worst RF Output Power Plots - N_{TX} 1

11a [Port 1]



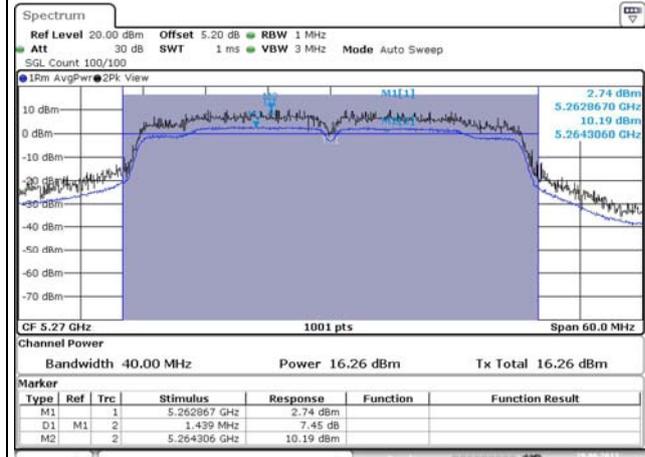
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HT20 [Port 1]



Date: 28 JUN 2013 16:56:33

HT40 [Port 1]

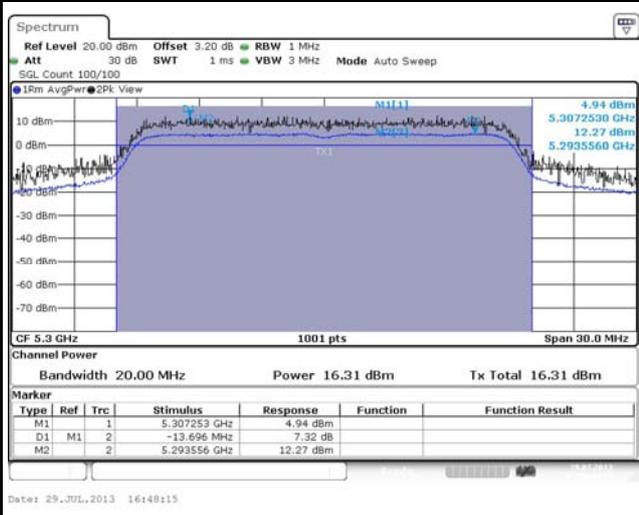


Date: 28 JUN 2013 18:21:43

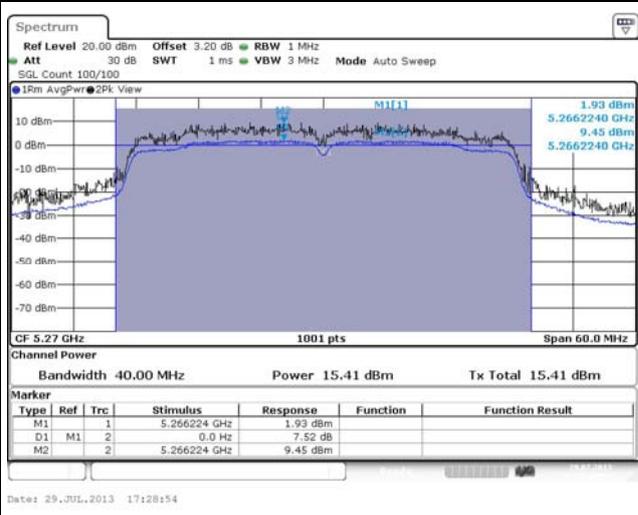


5250-5350MHz - Worst RF Output Power Plots - N_{TX} 2

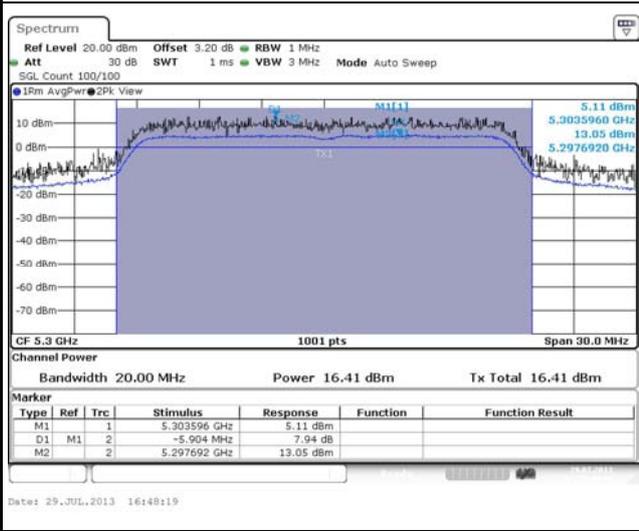
HT20 [Port 1]



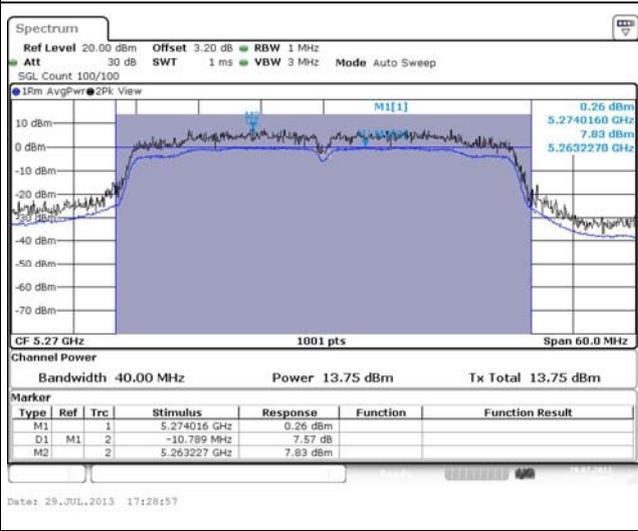
HT40 [Port 1]



HT20 [Port 2]



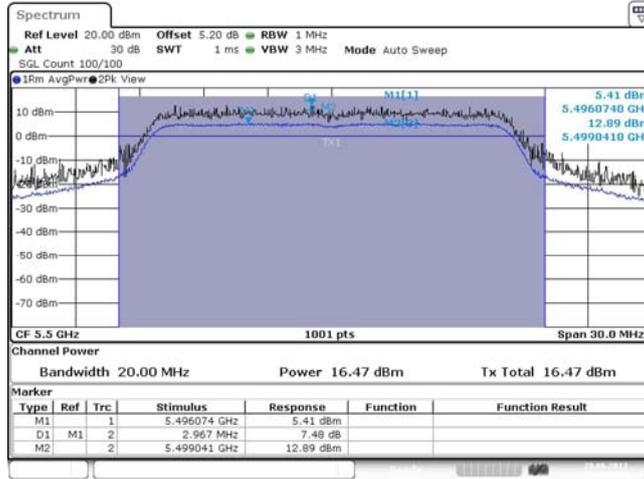
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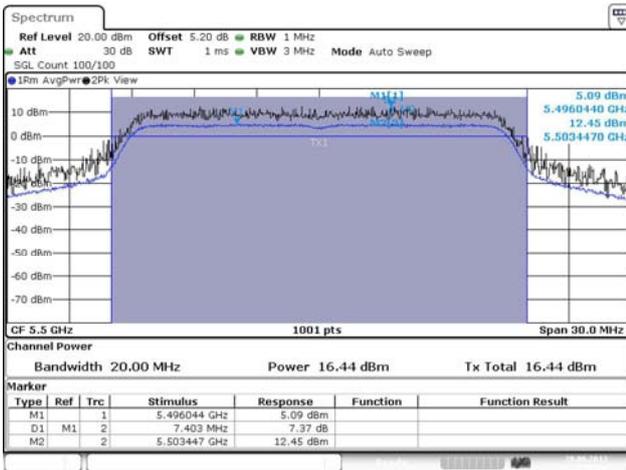


5470-5725MHz - Worst RF Output Power Plots - N_{TX} 1

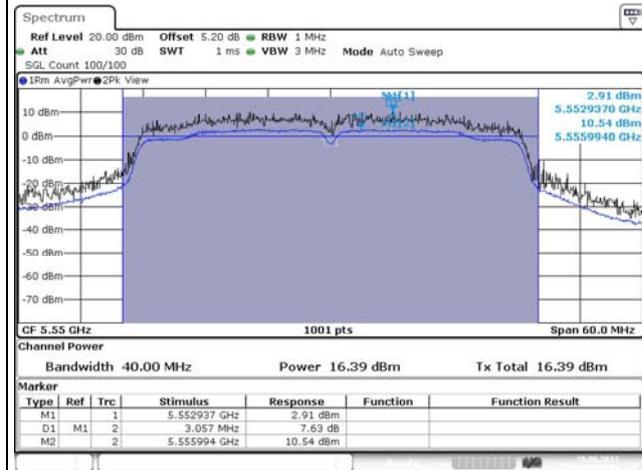
11a [Port 1]



HT20 [Port 1]



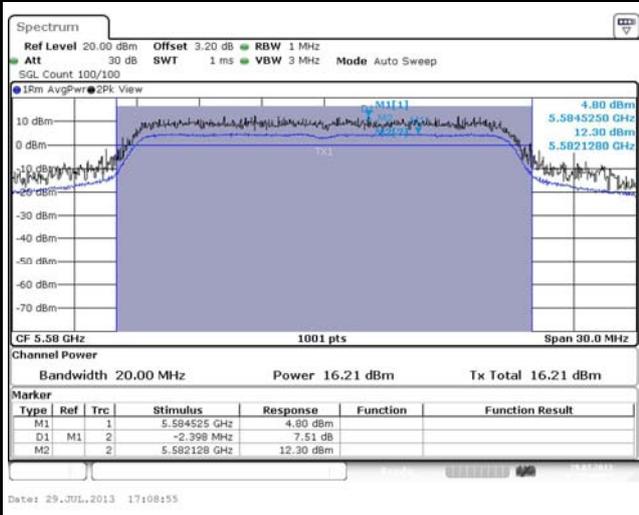
HT40 [Port 1]



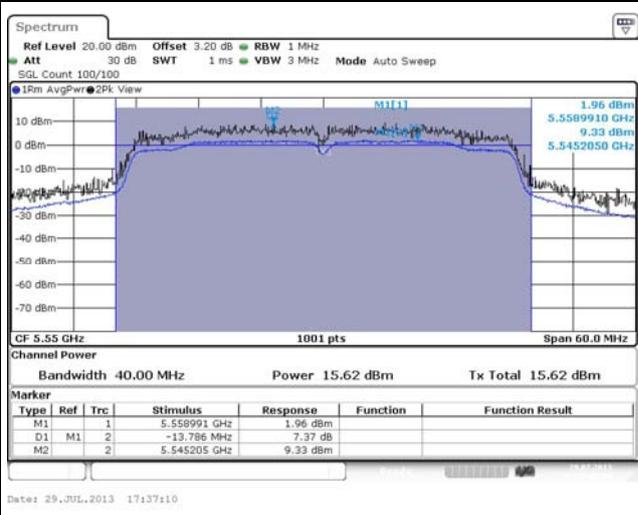


5470-5725MHz - Worst RF Output Power Plots - N_{TX} 2

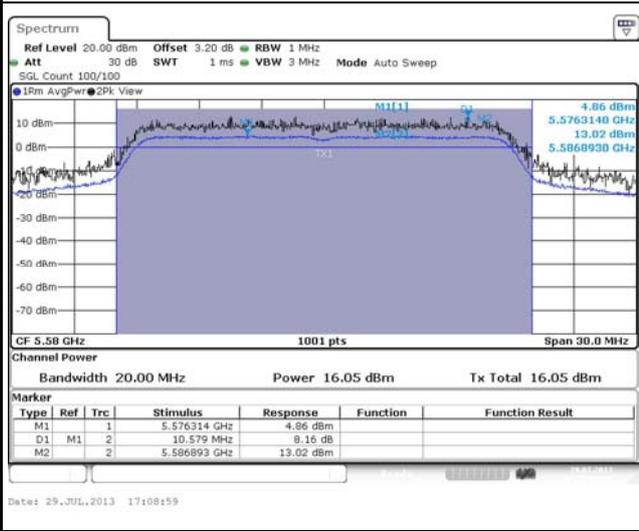
HT20 [Port 1]



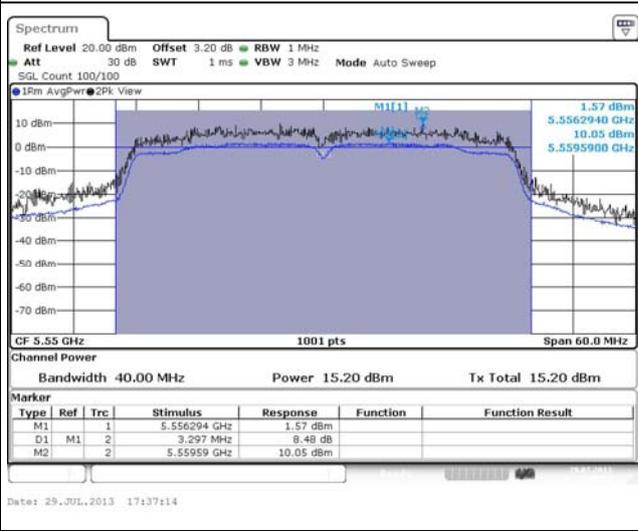
HT40 [Port 1]



HT20 [Port 2]



HT40 [Port 2]



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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 the 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>	

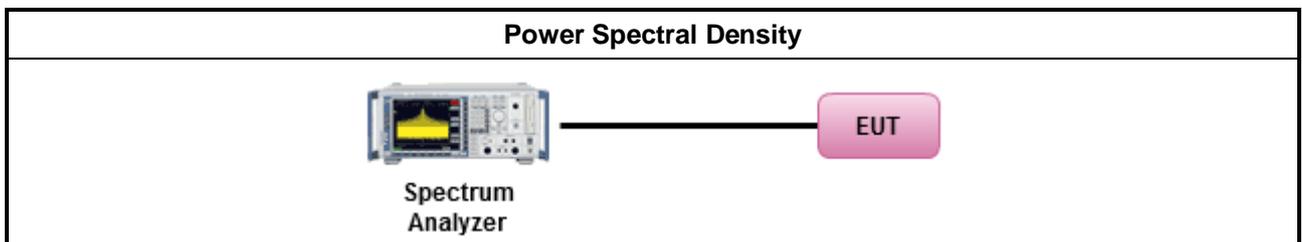
3.4.2 Measuring Instruments

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.
<input checked="" type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input checked="" 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 checked="" 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 checked="" 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	2	-	-
Maximum G _{ANT} (dBi)	-5.42	-5.42	-	-
Modulation Mode	N _{TX}	N _{SS} (Min.)	Array Gain (dB)	PSD DG (dBi) Note ³
11a,6-54Mbps	1	1	-	-5.42
HT20, M0-M7	1	1	-	-5.42
HT40,M0-M7	1	1	-	-5.42
HT20,M8-M15	2	2	0	-5.42
HT40, M8-M15	2	2	0	-5.42

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 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};



3.4.6 Test Result of Peak Power Spectral Density

Peak Power Spectral Density Result (5150-5250MHz band)							
Condition			Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5180	3.92	4.00	-5.42	-1.50	10.00
11a	1	5200	3.83	4.00	-5.42	-1.59	10.00
11a	1	5240	3.93	4.00	-5.42	-1.49	10.00
HT20	1	5180	3.62	4.00	-5.42	-1.80	10.00
HT20	1	5200	3.70	4.00	-5.42	-1.72	10.00
HT20	1	5240	3.74	4.00	-5.42	-1.68	10.00
HT40	1	5190	-0.55	4.00	-5.42	-5.97	10.00
HT40	1	5230	3.04	4.00	-5.42	-2.38	10.00
Result			Complied				

Peak Power Spectral Density Result							
Condition			Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
HT20	2	5180	3.83	4.00	-5.42	-1.59	10.00
HT20	2	5200	3.98	4.00	-5.42	-1.44	10.00
HT20	2	5240	3.79	4.00	-5.42	-1.63	10.00
HT40	2	5190	0.10	4.00	-5.42	-5.32	10.00
HT40	2	5230	2.70	4.00	-5.42	-2.72	10.00
Result			Complied				



Peak Power Spectral Density Result (5250-5350MHz band)							
Condition			Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5260	5.35	11.00	-5.42	-0.07	17.00
11a	1	5300	5.09	11.00	-5.42	-0.33	17.00
11a	1	5320	3.59	11.00	-5.42	-1.83	17.00
HT20	1	5260	5.18	11.00	-5.42	-0.24	17.00
HT20	1	5300	4.79	11.00	-5.42	-0.63	17.00
HT20	1	5320	3.96	11.00	-5.42	-1.46	17.00
HT40	1	5270	2.74	11.00	-5.42	-2.68	17.00
HT40	1	5310	0.60	11.00	-5.42	-4.82	17.00
Result			Complied				

Peak Power Spectral Density Result							
Condition			Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
HT20	2	5260	7.82	11.00	-5.42	2.40	17.00
HT20	2	5300	7.92	11.00	-5.42	2.50	17.00
HT20	2	5320	4.54	11.00	-5.42	-0.88	17.00
HT40	2	5270	3.91	11.00	-5.42	-1.51	17.00
HT40	2	5310	0.88	11.00	-5.42	-4.54	17.00
Result			Complied				



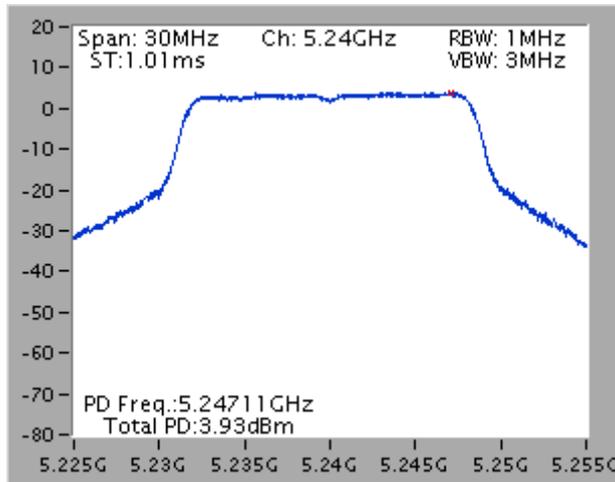
Peak Power Spectral Density Result (5470-5725MHz band)							
Condition			Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5500	5.41	11.00	-5.42	-0.01	17.00
11a	1	5580	5.53	11.00	-5.42	0.11	17.00
11a	1	5700	2.36	11.00	-5.42	-3.06	17.00
HT20	1	5500	5.09	11.00	-5.42	-0.33	17.00
HT20	1	5580	5.02	11.00	-5.42	-0.40	17.00
HT20	1	5700	1.70	11.00	-5.42	-3.72	17.00
HT40	1	5510	-0.56	11.00	-5.42	-5.98	17.00
HT40	1	5550	2.91	11.00	-5.42	-2.51	17.00
HT40	1	5670	2.77	11.00	-5.42	-2.65	17.00
Result			Complied				

Peak Power Spectral Density Result							
Condition			Power Spectral Density				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
HT20	2	5500	4.83	11.00	-5.42	-0.59	17.00
HT20	2	5580	7.57	11.00	-5.42	2.15	17.00
HT20	2	5700	0.28	11.00	-5.42	-5.14	17.00
HT40	2	5510	-2.03	11.00	-5.42	-7.45	17.00
HT40	2	5550	4.43	11.00	-5.42	-0.99	17.00
HT40	2	5670	3.41	11.00	-5.42	-2.01	17.00
Result			Complied				

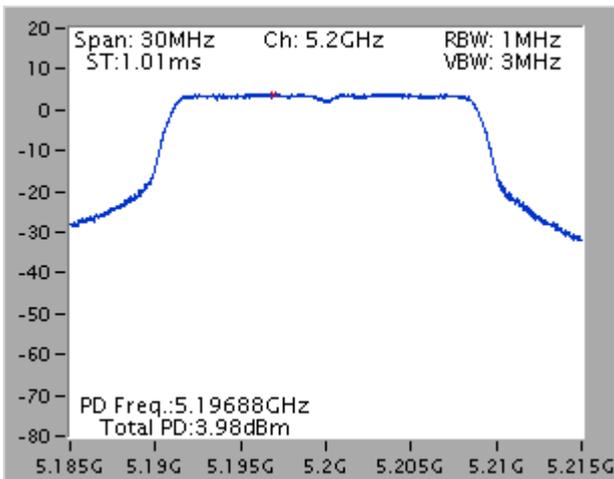


5150-5250MHz - Worst Power Spectral Density Plots

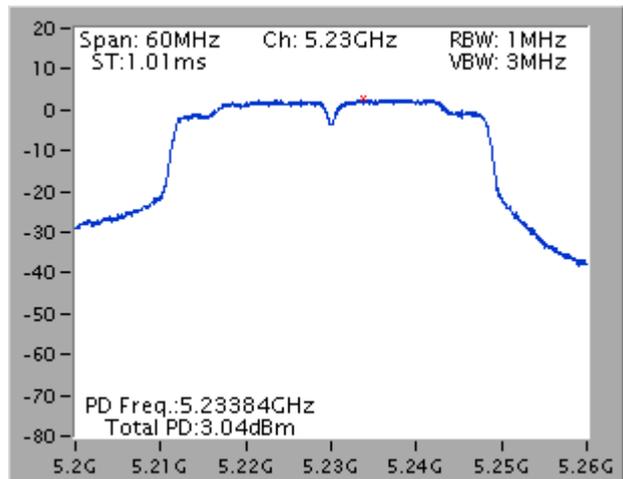
11a [Sum All Chains]



HT20 [Sum All Chains]



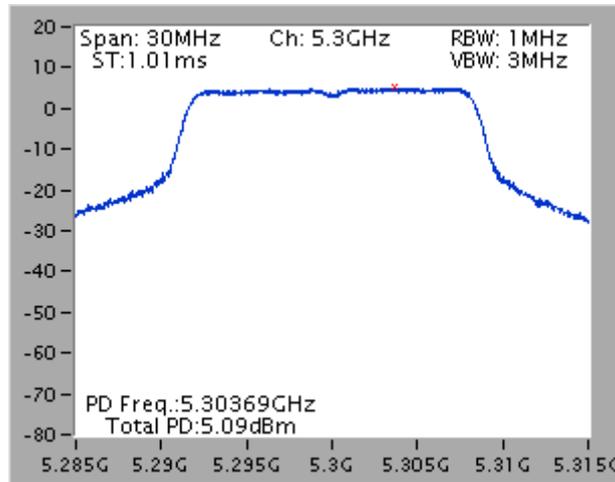
HT40 [Sum All Chains]



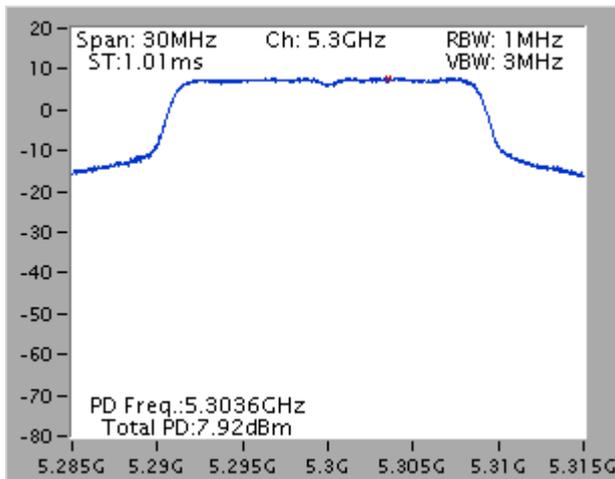


5250-5350MHz - Worst Power Spectral Density Plots

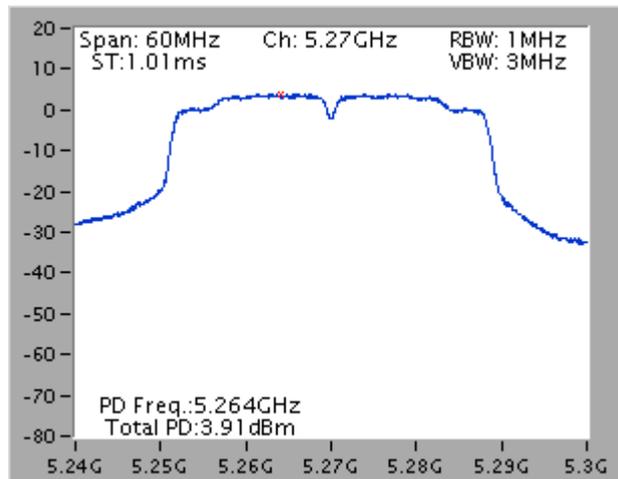
11a [Sum All Chains]



HT20 [Sum All Chains]



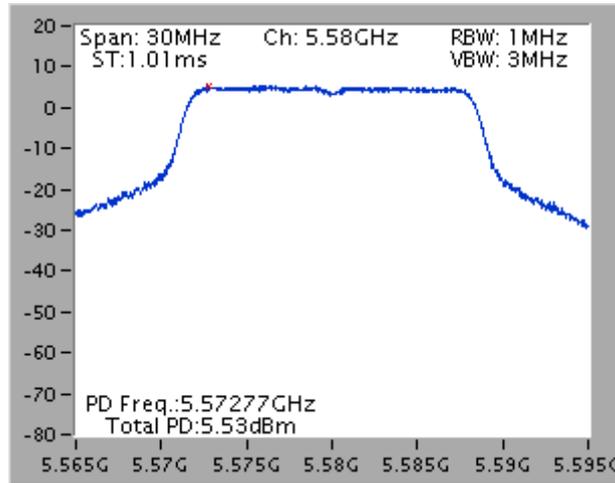
HT40 [Sum All Chains]



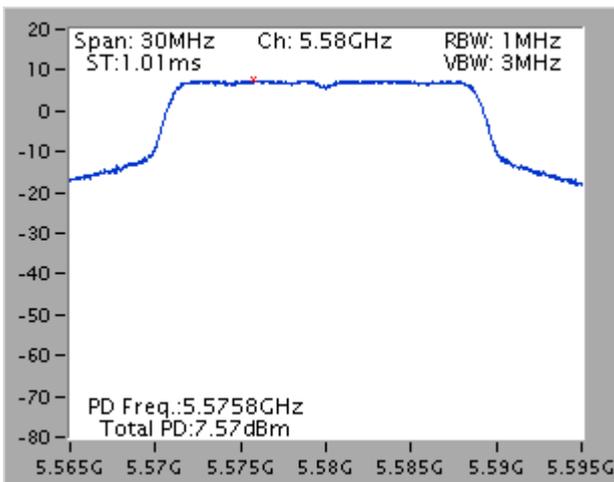


5470-5725MHz - Worst Power Spectral Density Plots

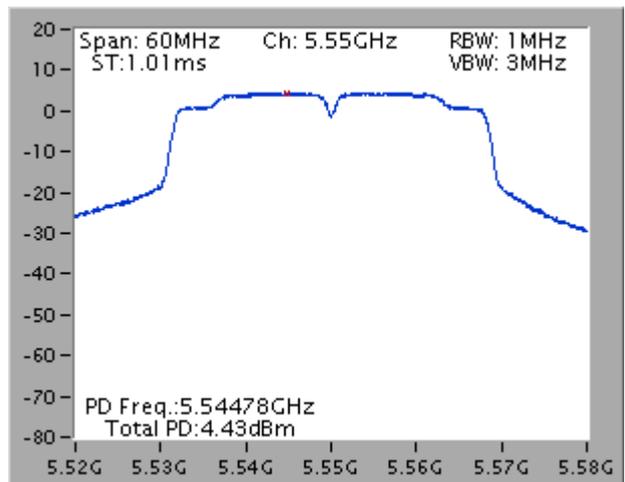
11a [Sum All Chains]



HT20 [Sum All Chains]



HT40 [Sum All Chains]



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

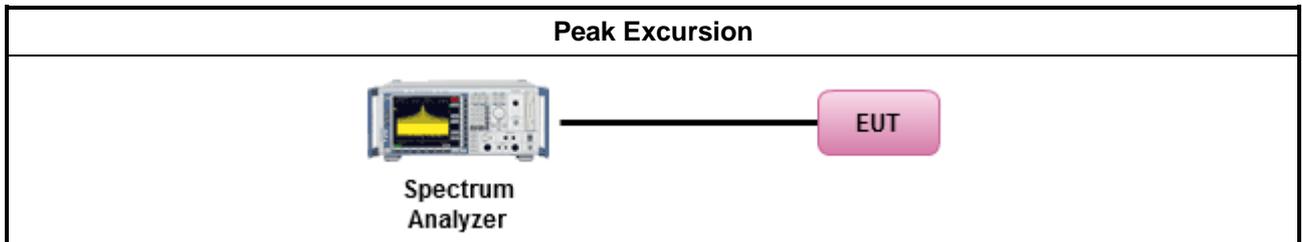
3.5.2 Measuring Instruments

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





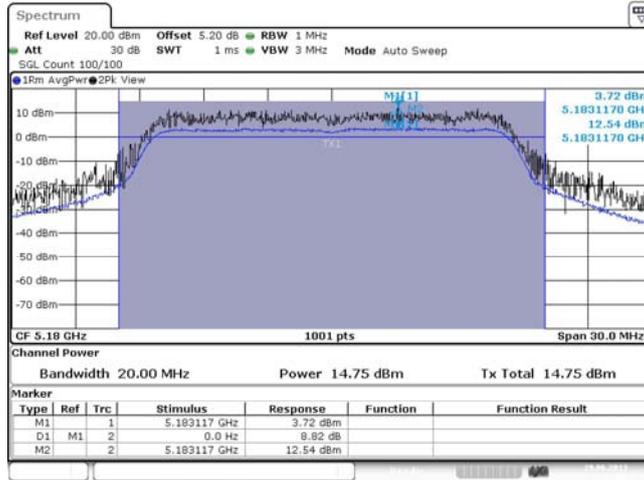
3.5.5 Test Result of Peak Excursion

UNII Peak Excursion Result								
Condition			Peak Excursion (dB)					
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	256QAM	Limit
11a	1	5180	7.49	7.46	8.28	8.82	-	13.0
HT20	1	5180	7.49	8.11	8.15	8.15	-	13.0
HT40	1	5190	7.46	7.59	7.71	8.60	-	13.0
HT20	2	5180	7.87	7.74	7.99	8.33	-	13.0
HT40	2	5190	7.58	7.65	8.09	8.66	-	13.0
Result			Complied					



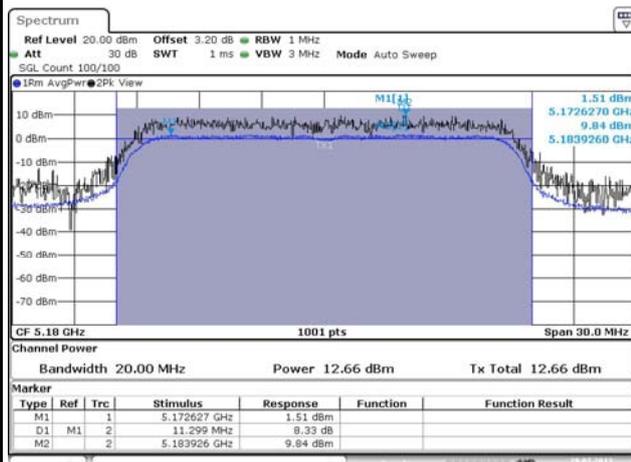
Peak Excursion Plots

11a



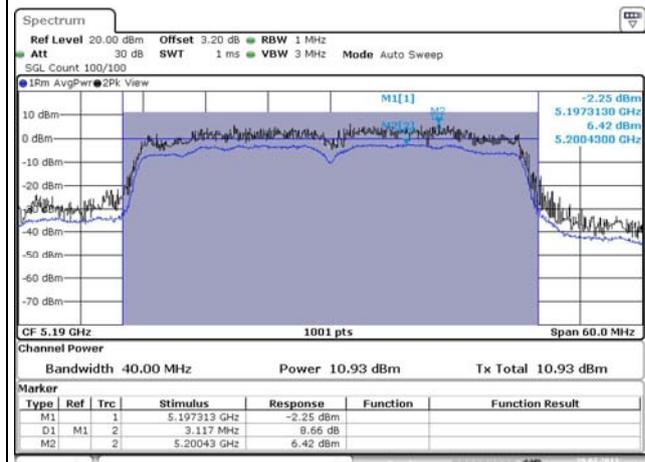
Date: 29.JUN.2013 17:01:57

HT20



Date: 29.JUL.2013 20:02:28

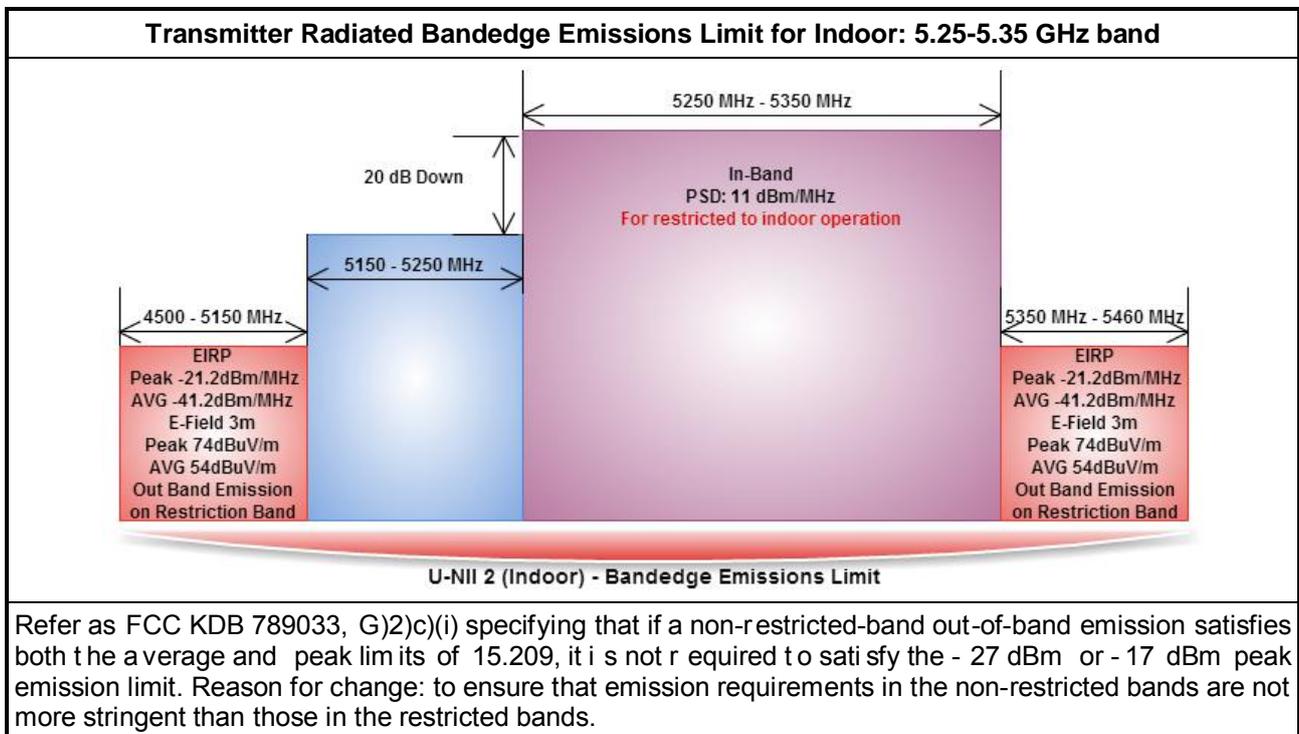
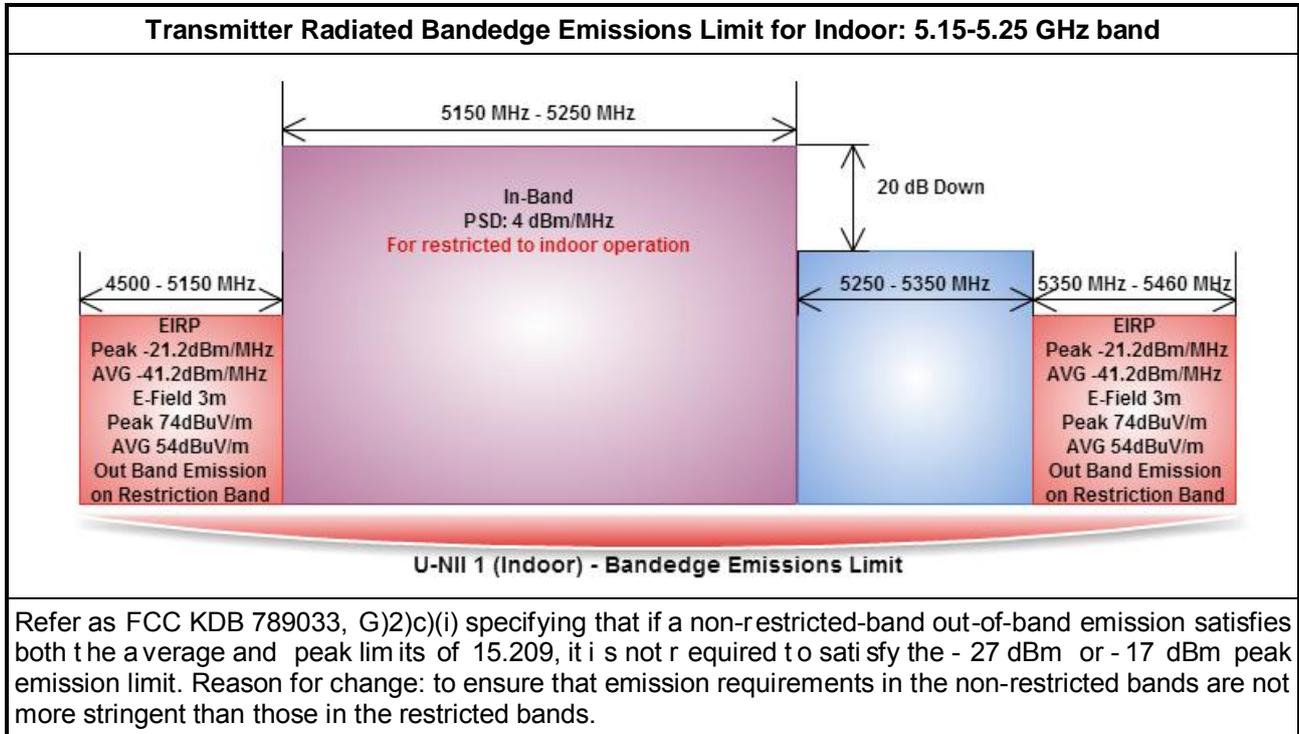
HT40

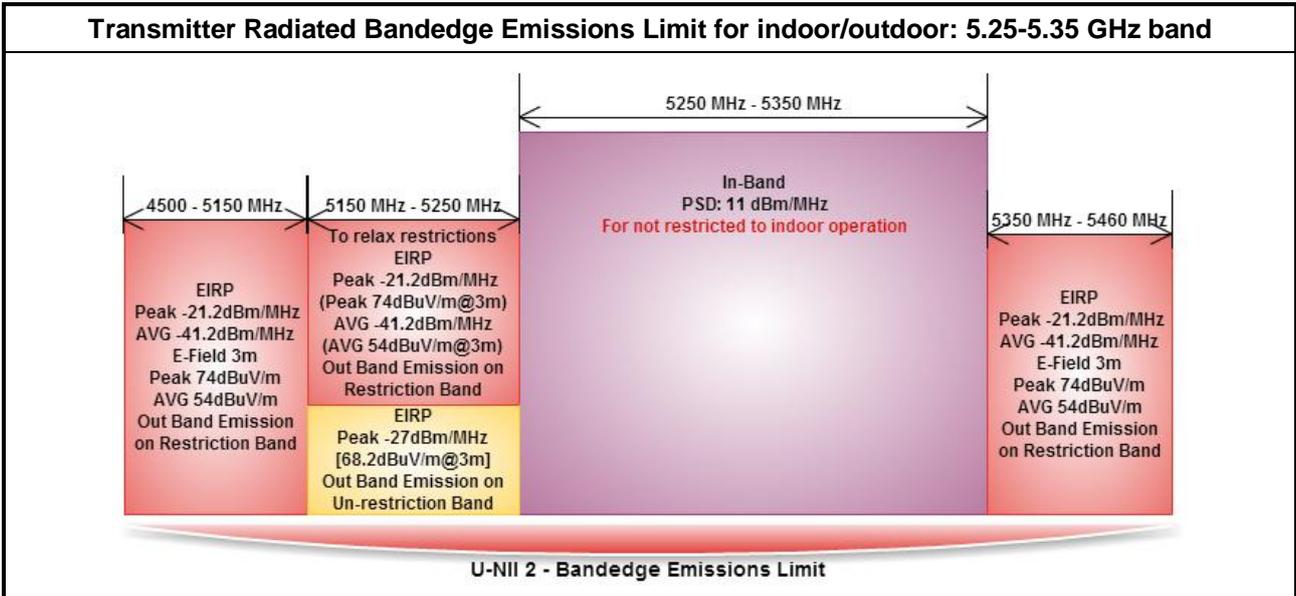


Date: 29.JUL.2013 20:10:26

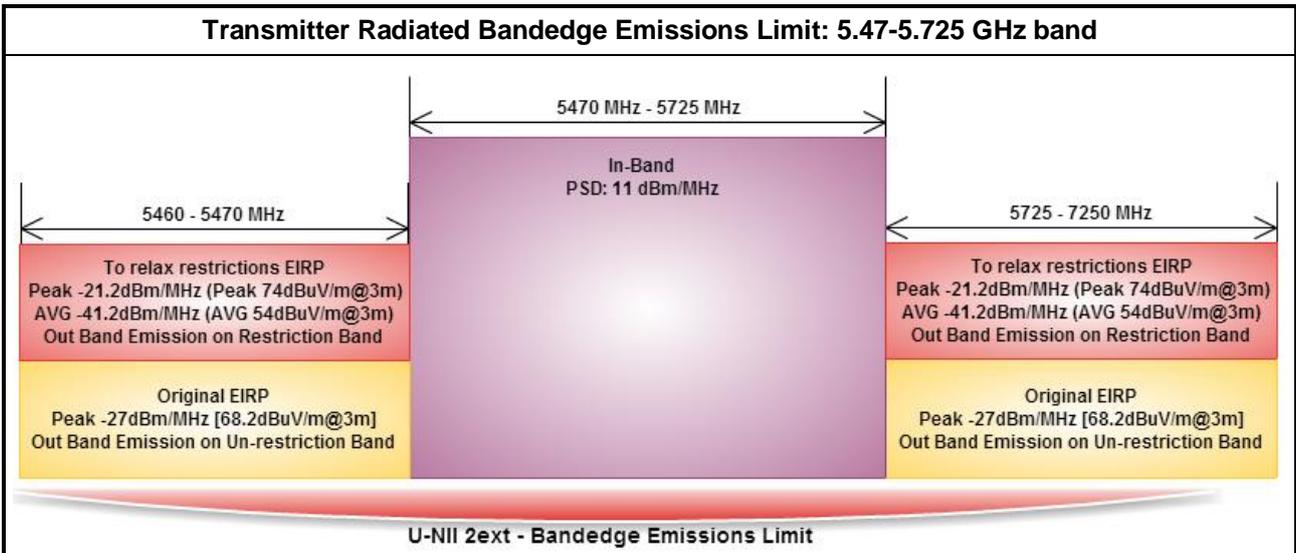
3.6 Transmitter Radiated Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit





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



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

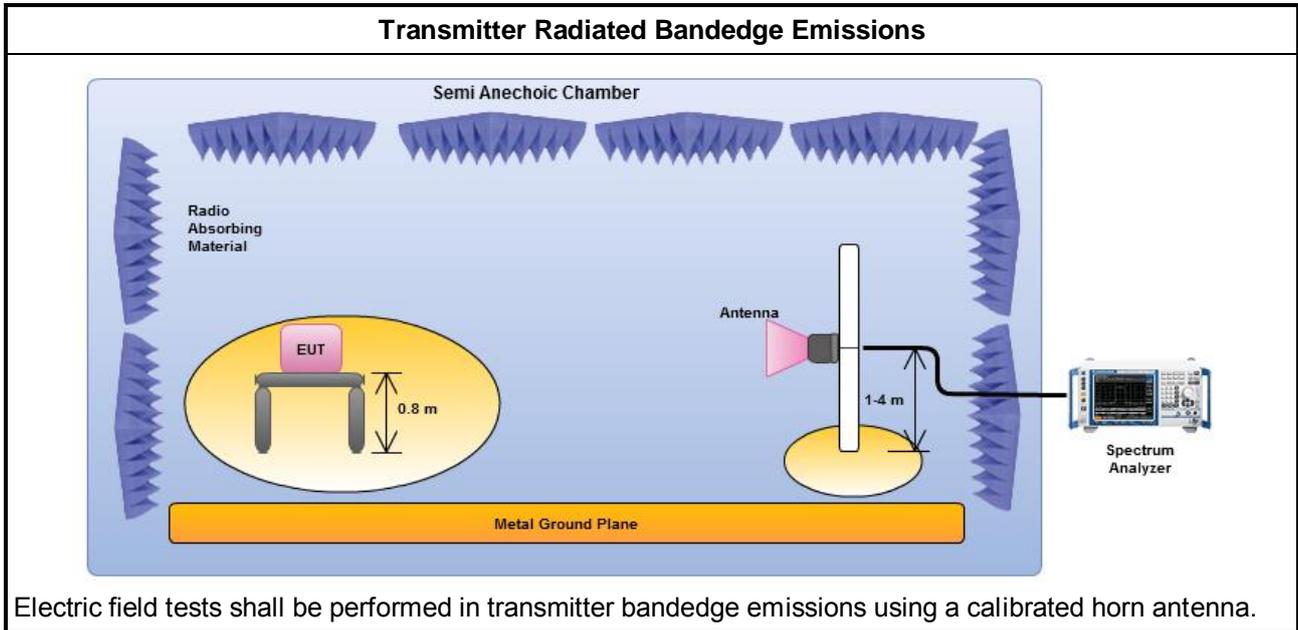
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
<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.
<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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
<input type="checkbox"/>	<input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	<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"/>	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	<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"/>	<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"/>	<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
<input type="checkbox"/>	<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 6.5 for radiated emissions from above 1 GHz.

3.6.4 Test Setup





3.6.5 Transmitter Radiated Bandedge Emissions (with Antenna)

U-NII 5150-5250MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5180	1	5148.70	76.20	83.54	5150.00	58.70	63.54	V
11a	1	5240	1	5145.00	68.03	83.54	5148.60	55.63	63.54	V
HT20,M0-7	1	5180	1	5149.80	76.70	83.54	5150.00	59.86	63.54	V
HT20,M0-7	1	5240	1	5146.20	69.48	83.54	5150.00	55.55	63.54	V
HT40,M0-7	1	5190	1	5149.06	80.17	83.54	5150.00	62.51	63.54	V
HT40,M0-7	1	5230	1	5149.80	72.83	83.54	5150.00	58.90	63.54	V
HT20,M0-7	2	5180	1	5147.80	76.65	83.54	5150.00	61.78	63.54	V
HT20,M0-7	2	5240	1	5146.20	70.31	83.54	5150.00	56.40	63.54	V
HT40,M0-7	2	5190	1	5149.61	78.59	83.54	5150.00	61.61	63.54	V
HT40,M0-7	2	5230	1	5147.70	74.26	83.54	5150.00	61.33	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.

U-NII 5250-5350MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5260	1	5369.40	69.29	83.54	5350.50	55.88	63.54	V
11a	1	5320	1	5350.18	81.17	83.54	5350.00	62.50	63.54	V
HT20,M0-7	1	5260	1	5365.80	68.77	83.54	5351.70	55.53	63.54	V
HT20,M0-7	1	5320	1	5350.74	78.30	83.54	5350.00	62.27	63.54	V
HT40,M0-7	1	5270	1	5355.30	70.03	83.54	5350.50	56.61	63.54	V
HT40,M0-7	1	5310	1	5350.30	75.97	83.54	5350.03	61.98	63.54	V
HT20,M0-7	2	5260	1	5350.20	69.85	83.54	5350.00	56.92	63.54	V
HT20,M0-7	2	5320	1	5353.89	77.34	83.54	5350.00	61.33	63.54	V
HT40,M0-7	2	5270	1	5352.90	71.10	83.54	5350.00	61.17	63.54	V
HT40,M0-7	2	5310	1	5353.27	75.52	83.54	5350.03	61.99	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.



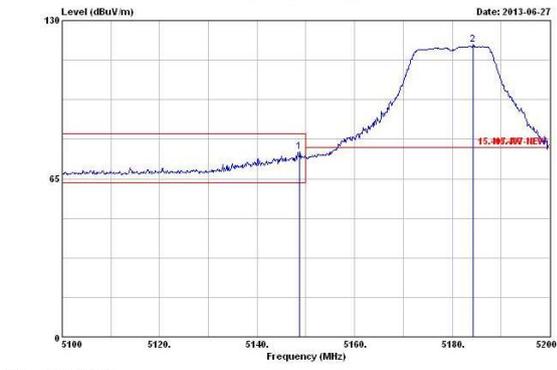
U-NII 5470-5725MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5500	1	5464.48	78.41	83.54	5470.00	61.99	63.54	V
11a	1	5700	1	5728.58	76.76	83.54	5725.00	60.50	63.54	V
HT20,M0-7	1	5500	1	5469.84	78.51	83.54	5470.00	61.04	63.54	V
HT20,M0-7	1	5700	1	5732.66	76.44	77.84	-	-	-	V
HT40,M0-7	1	5510	1	5469.50	77.89	83.54	5470.00	61.89	63.54	V
HT40,M0-7	1	5670	1	5725.10	72.42	77.84	-	-	-	V
HT20,M0-7	2	5500	1	5469.20	79.64	83.54	5470.00	61.81	63.54	V
HT20,M0-7	2	5700	1	5728.76	76.16	77.84	-	-	-	V
HT40,M0-7	2	5510	1	5468.30	77.65	83.54	5470.00	61.61	63.54	V
HT40,M0-7	2	5670	1	5725.80	75.58	77.84	-	-	-	V

Note 1: Measurement worst emissions of receive antenna polarization.

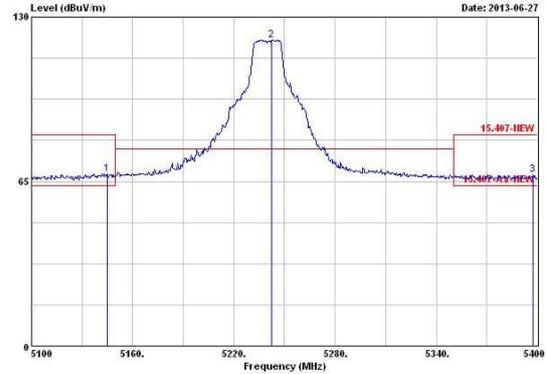


5150-5250MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna) - N_{TX} 1

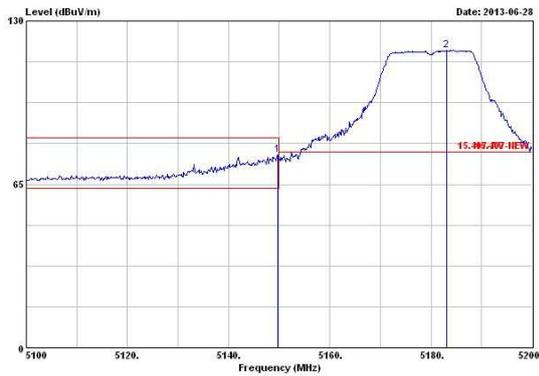
11a-(Lowest Ch.)



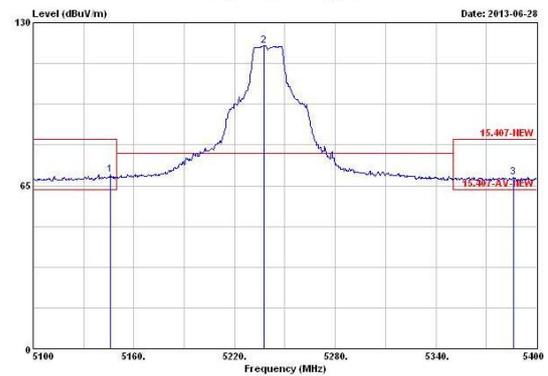
11a-(Highest Ch.)



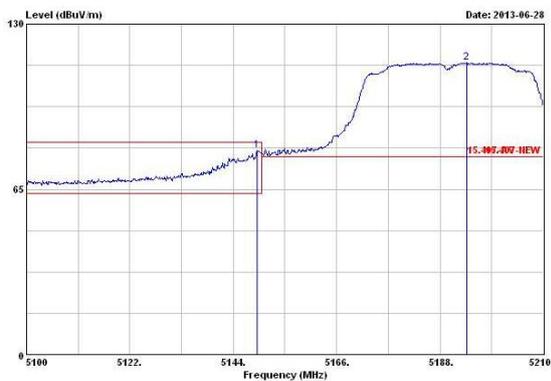
HT20-(Lowest Ch.)



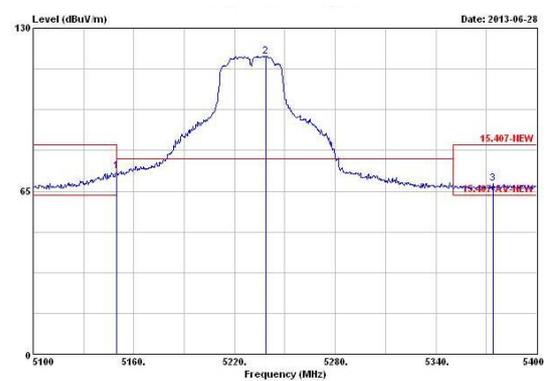
HT20-(Highest Ch.)



HT40-(Lowest Ch.)



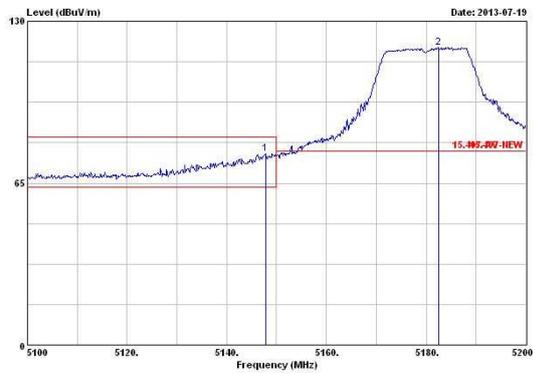
HT40-(Highest Ch.)



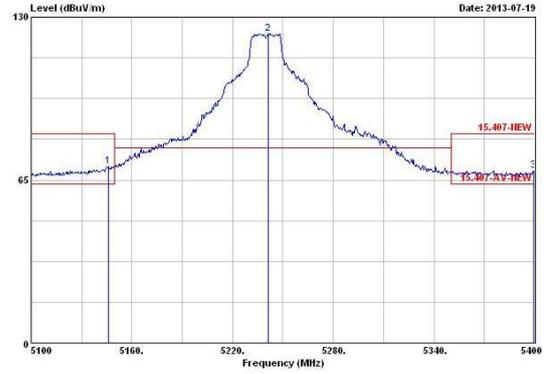


5150-5250MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna) - N_{TX} 2

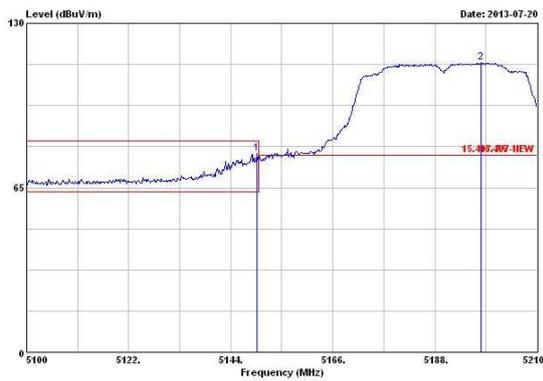
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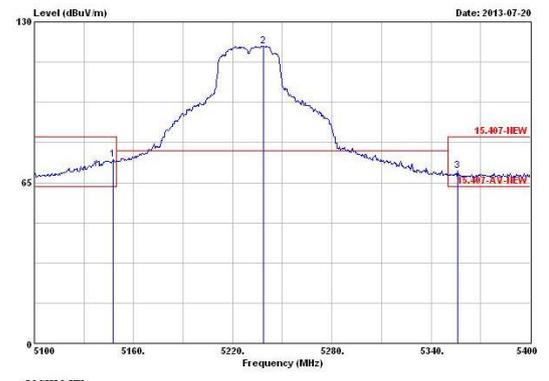
HT20-(Highest Ch.)



HT40-(Lowest Ch.)



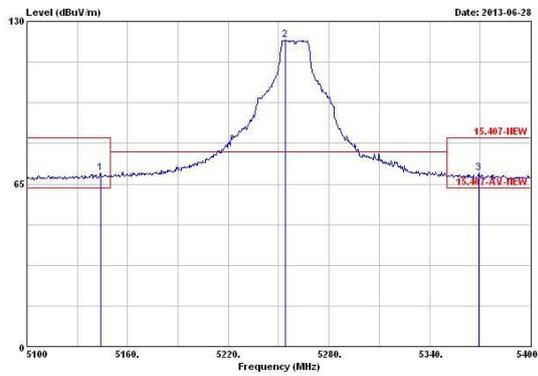
HT40-(Highest Ch.)



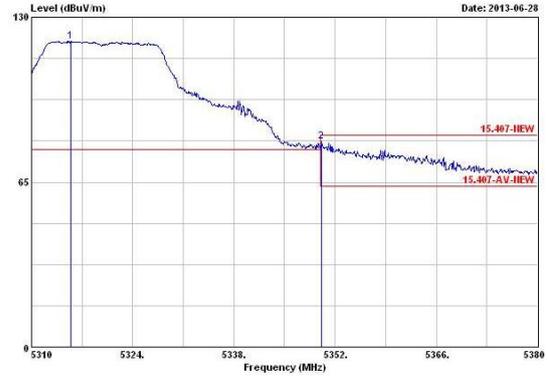


5250-5350MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna) - N_{TX} 1

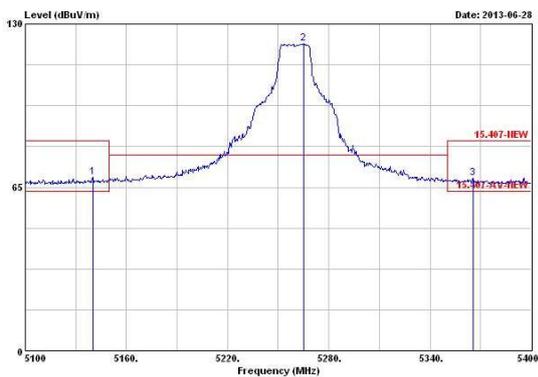
11a-(Lowest Ch.)



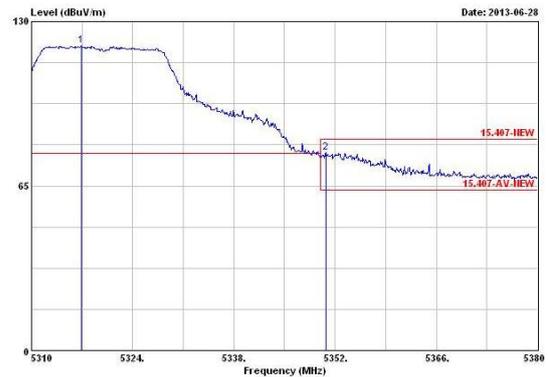
11a-(Highest Ch.)



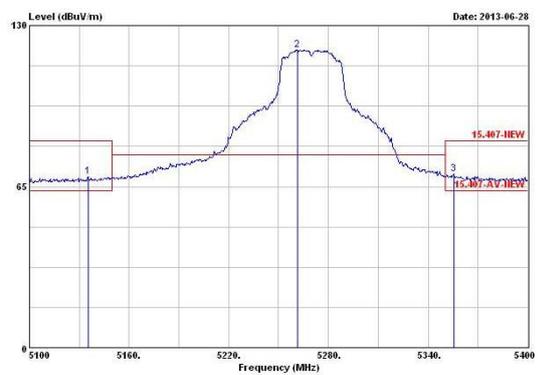
HT20-(Lowest Ch.)



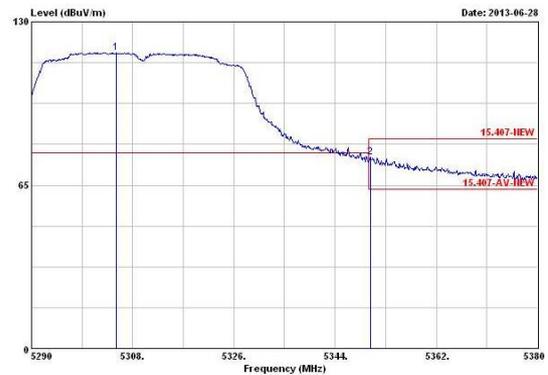
HT20-(Highest Ch.)



HT40-(Lowest Ch.)



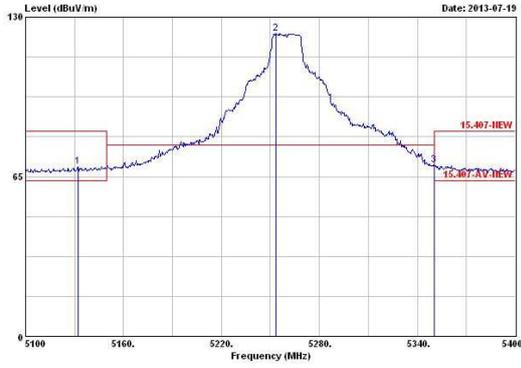
HT40-(Highest Ch.)



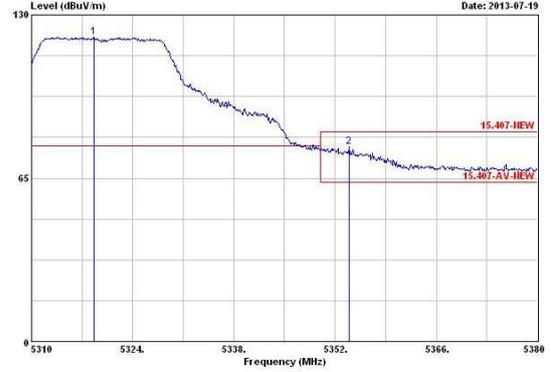


5250-5350MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna) - N_{TX} 2

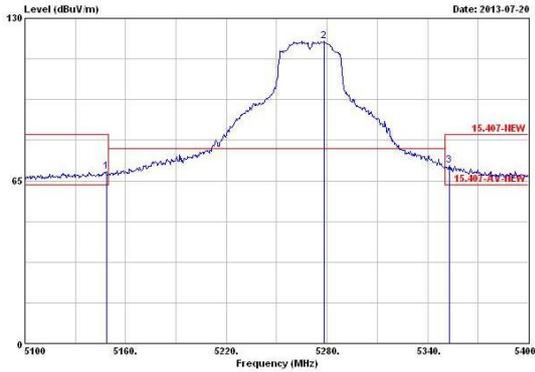
HT20-(Lowest Ch.)



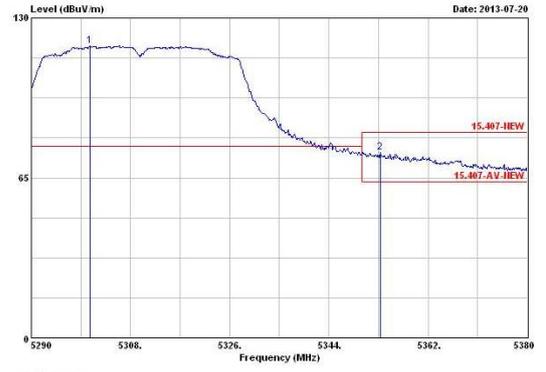
HT20-(Highest Ch.)



HT40-(Lowest Ch.)



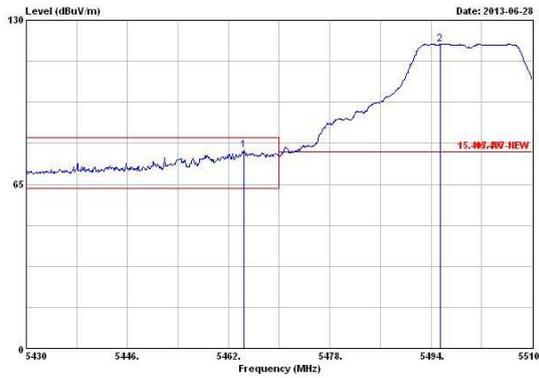
HT40-(Highest Ch.)



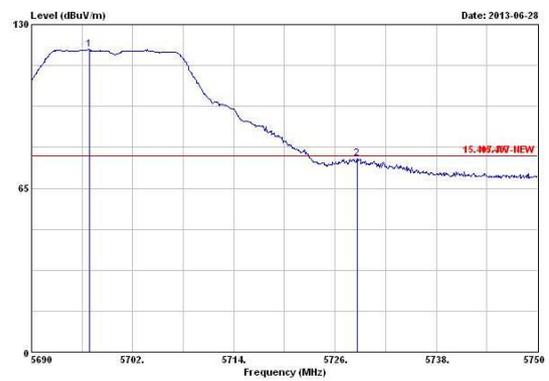


5470-5725MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna) - N_{TX} 1

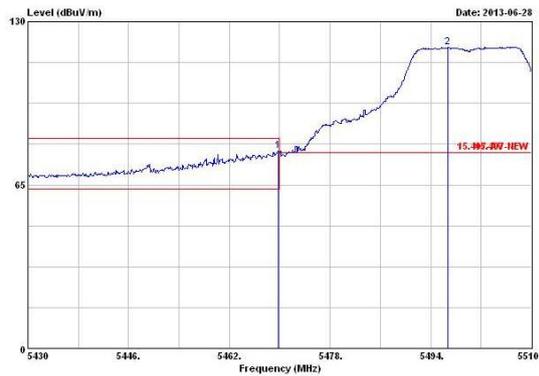
11a-(Lowest Ch.)



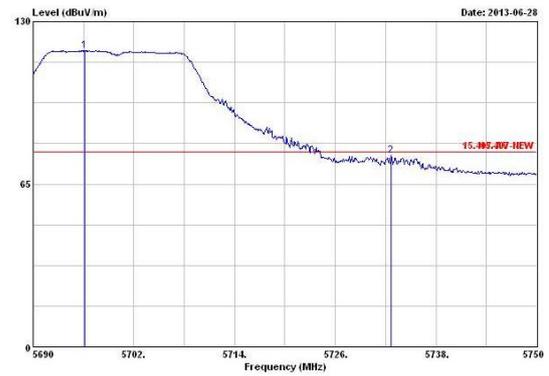
11a-(Highest Ch.)



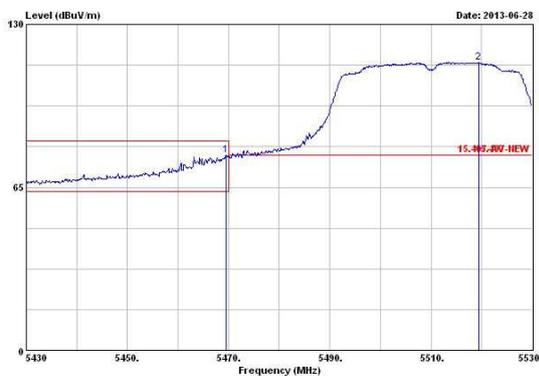
HT20-(Lowest Ch.)



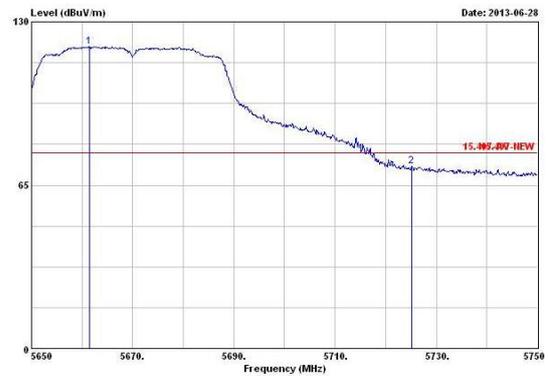
HT20-(Highest Ch.)



HT40-(Lowest Ch.)



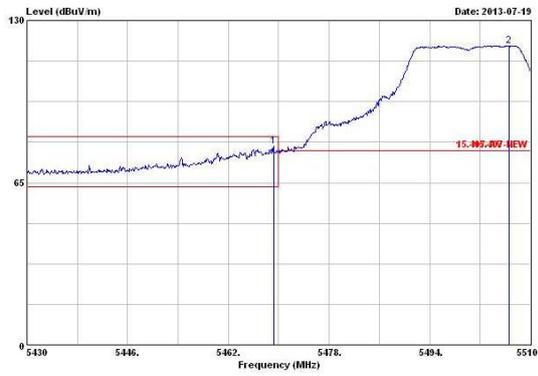
HT40-(Highest Ch.)



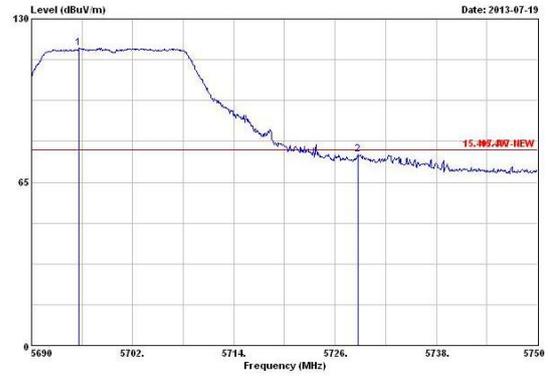


5470-5725MHz - Transmitter Radiated Bandedge Emissions Plots (with Antenna) - N_{TX} 2

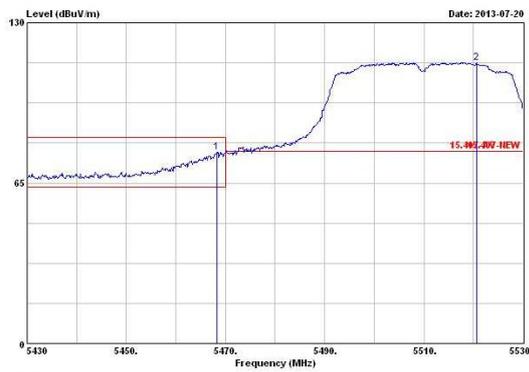
HT20-(Lowest Ch.)



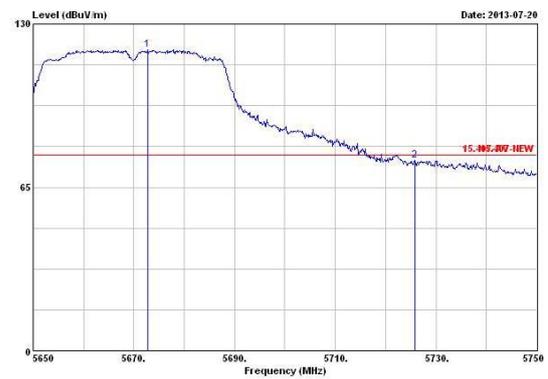
HT20-(Highest Ch.)



HT40-(Lowest Ch.)



HT40-(Highest Ch.)



3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

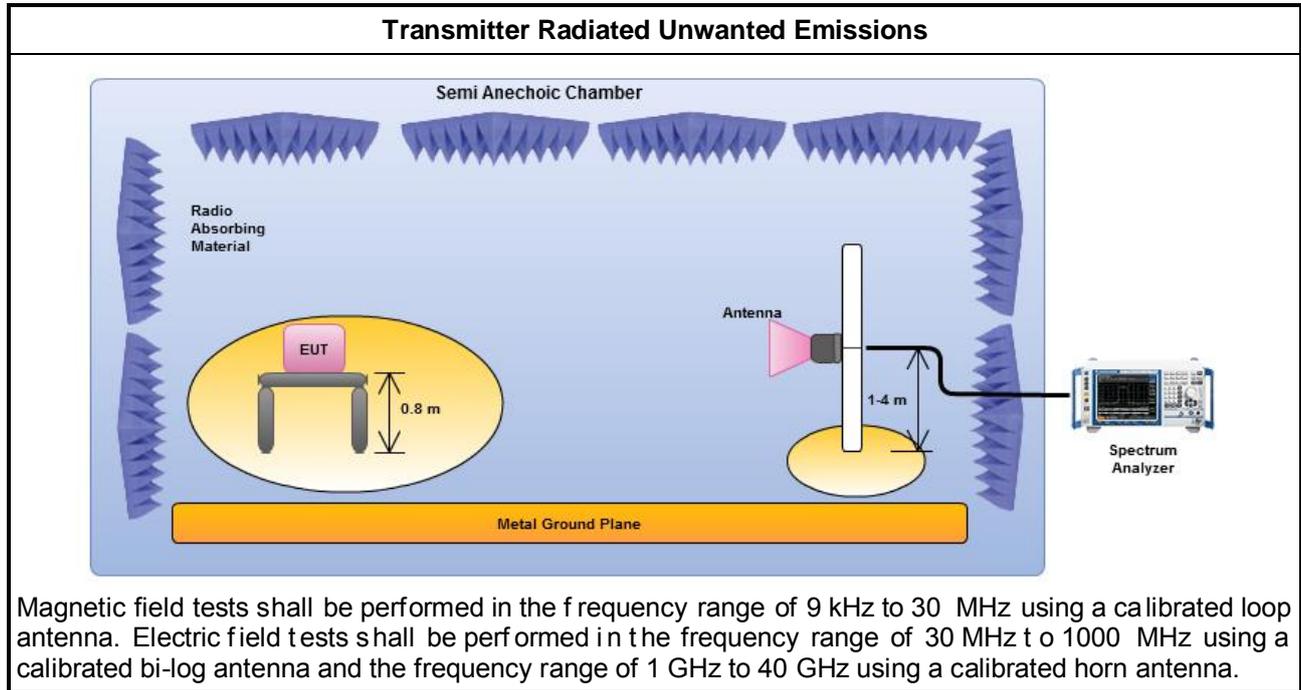
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

Test Method	
<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 or 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"/>	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
<input checked="" type="checkbox"/>	Measurements in the frequency range above 18 GHz - 40GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
<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 checked="" 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 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 from below 30 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

3.7.4 Test Setup



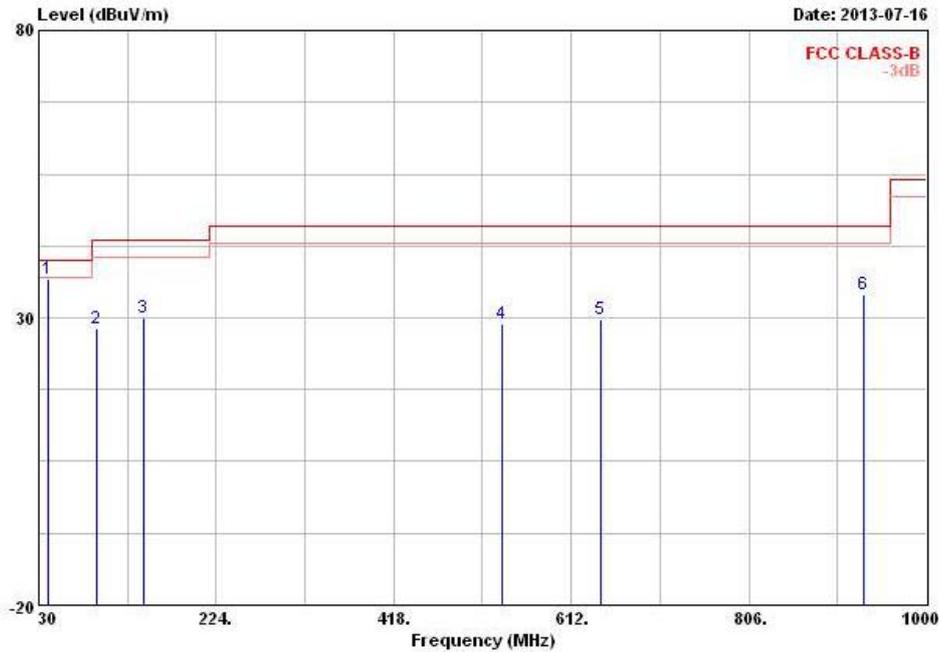
3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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)			
Operating Mode	1	Polarization	V
Operating Function	AC Power & Radio Link		



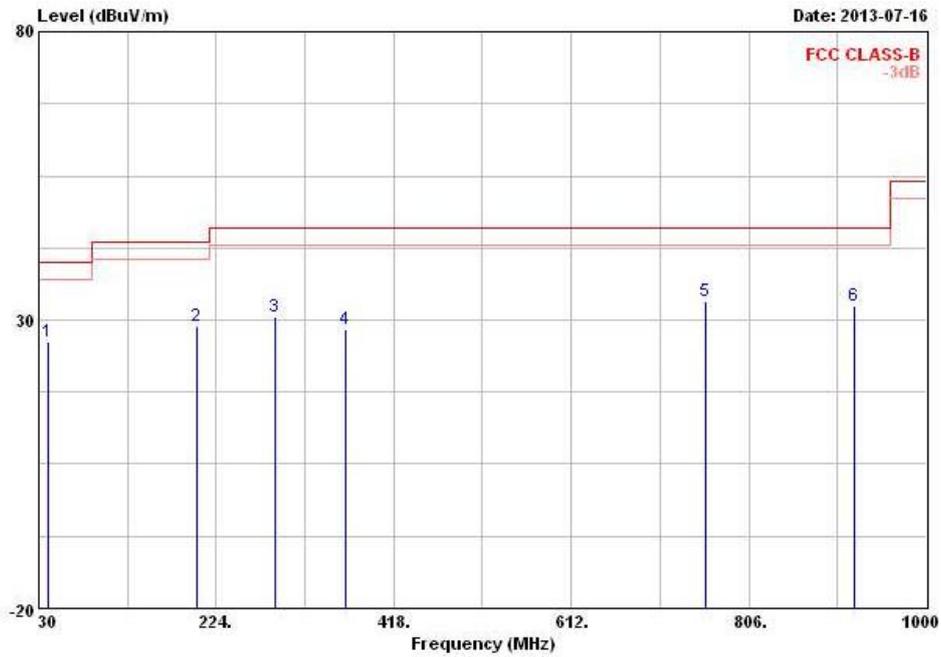
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	39.700	36.84	-3.16	40.00	50.35	13.18	0.91	27.60	Peak	---	---
2	94.020	28.00	-15.50	43.50	43.91	10.10	1.40	27.41	Peak	---	---
3	144.460	30.01	-13.49	43.50	44.78	10.67	1.77	27.21	Peak	---	---
4	536.340	28.83	-17.17	46.00	34.98	18.30	3.47	27.92	Peak	---	---
5	644.980	29.67	-16.33	46.00	34.91	18.90	3.83	27.97	Peak	---	---
6	932.100	34.08	-11.92	46.00	36.12	20.71	4.71	27.46	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)

Operating Mode	1	Polarization	H
Operating Function	AC Power & Radio Link		

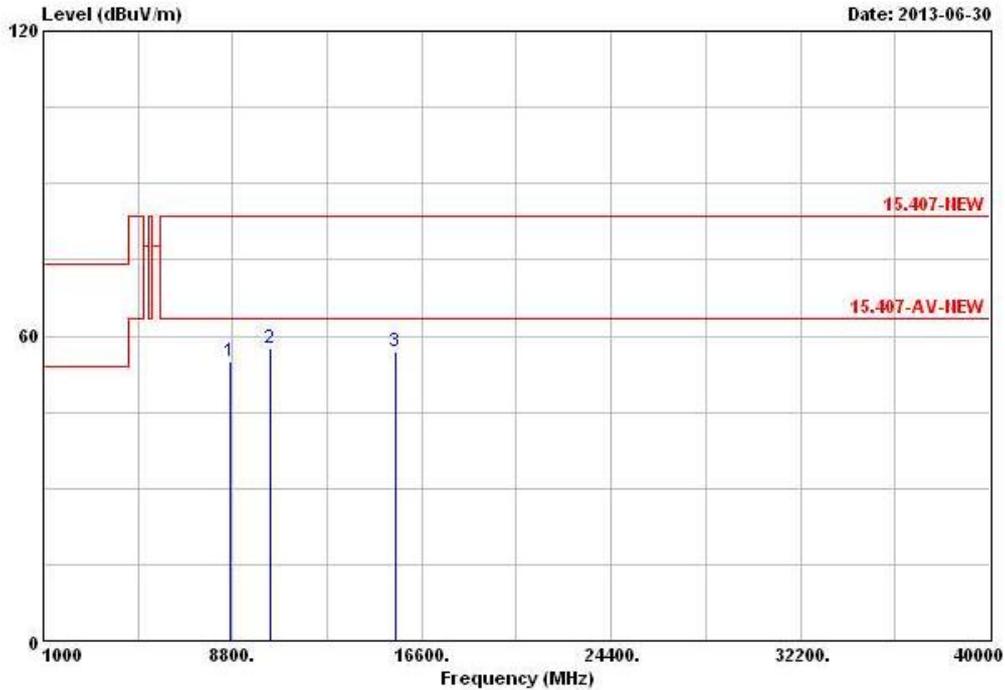


	Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table	
1	2	3	4	5	6	7	8	Pos	Pos	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
39.700	26.21	-13.79	40.00	39.72	13.18	0.91	27.60	Peak	---	---
202.660	28.97	-14.53	43.50	44.58	9.29	2.09	26.99	Peak	---	---
288.990	30.64	-15.36	46.00	41.78	13.03	2.52	26.69	Peak	---	---
365.620	28.50	-17.50	46.00	38.16	14.60	2.84	27.10	Peak	---	---
758.470	33.27	-12.73	46.00	37.14	19.80	4.19	27.86	Peak	---	---
921.430	32.31	-13.69	46.00	34.58	20.56	4.66	27.49	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)			
Modulation Mode	11a	Test Freq. (MHz)	5180
N _{TX}	1	Polarization	V

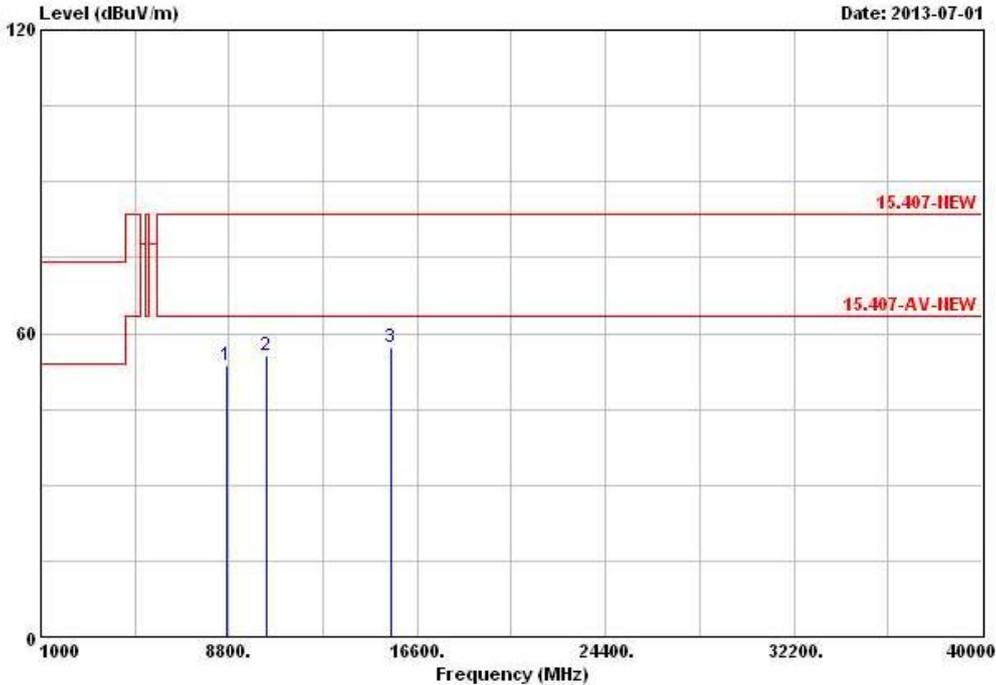


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8670.000	54.97	-8.57	63.54	45.07	38.50	4.48	33.08	PK	---	---
2	10360.000	57.51	-6.03	63.54	45.64	39.60	5.27	33.00	PK	---	---
3	15540.000	57.04	-6.50	63.54	44.03	38.04	7.43	32.46	PK	---	---

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



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



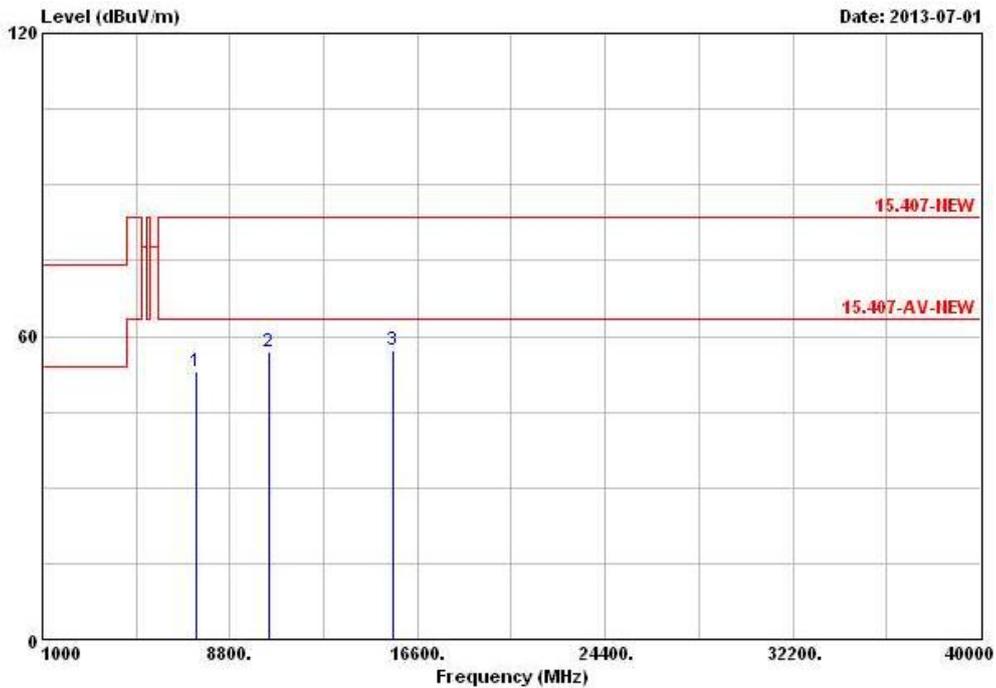
Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8700.000	53.81	-9.73	63.54	43.96	38.46	4.48	33.09 PK	---	---
2	10360.000	55.77	-7.77	63.54	43.90	39.60	5.27	33.00 PK	---	---
3	15540.000	57.35	-6.19	63.54	44.34	38.04	7.43	32.46 PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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

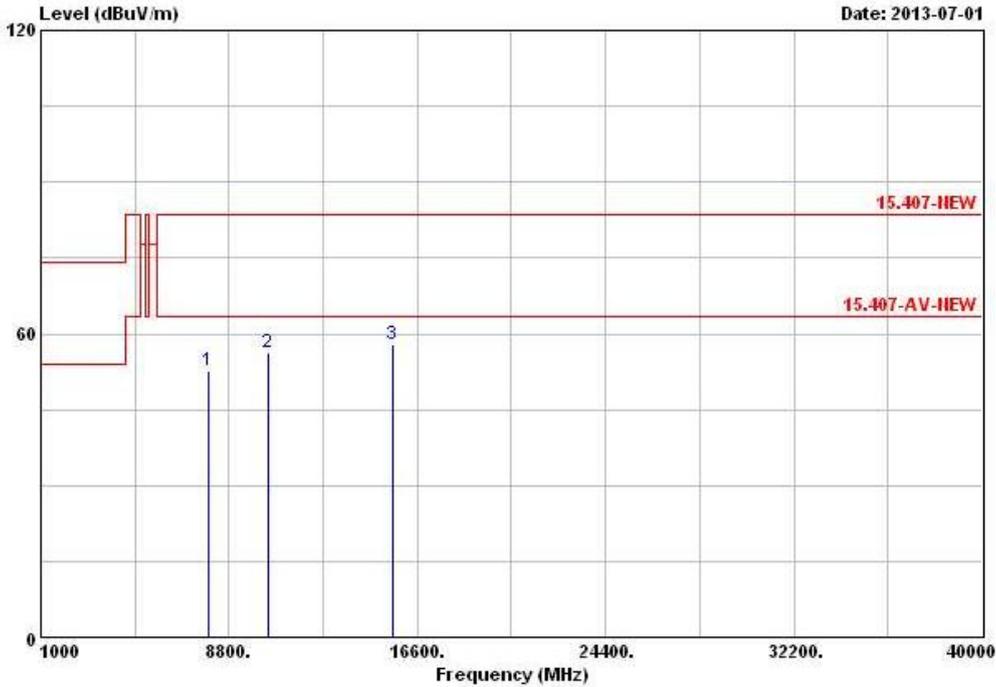


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7430.000	52.87	-10.67	63.54	44.40	37.20	4.17	32.90	PK	---	---
2	10400.000	56.86	-6.68	63.54	44.95	39.60	5.26	32.95	PK	---	---
3	15600.000	57.10	-6.44	63.54	44.21	37.91	7.47	32.49	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	Test Freq. (MHz)	5200
N _{TX}	1	Polarization	H



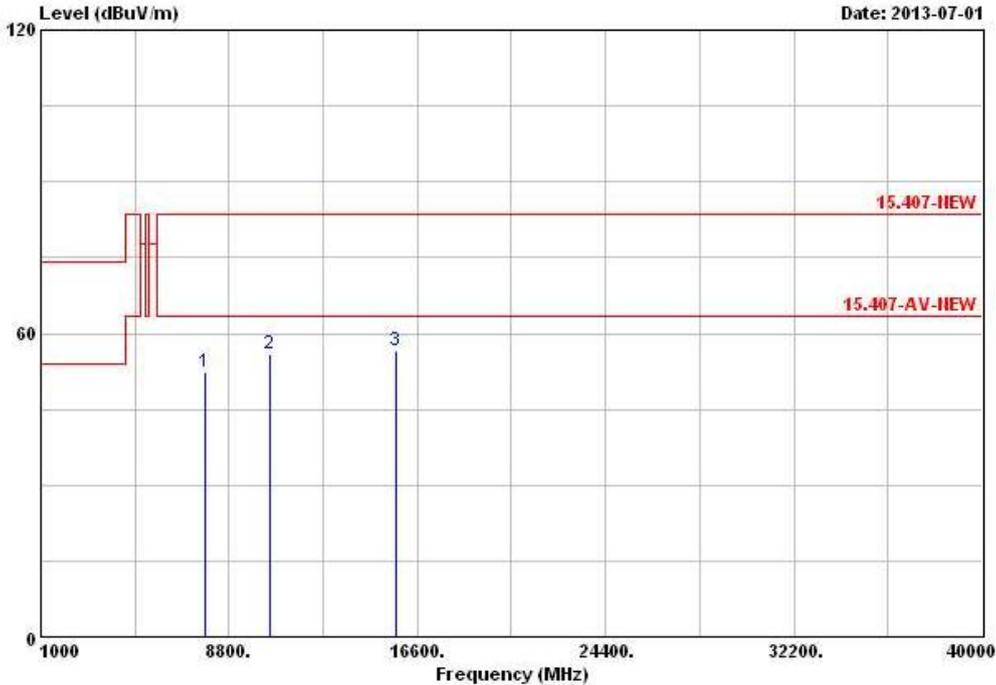
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7980.000	52.56	-10.98	63.54	44.07	37.78	3.72	33.01	PK	---	---
2	10400.000	56.33	-7.21	63.54	44.42	39.60	5.26	32.95	PK	---	---
3	15600.000	57.79	-5.75	63.54	44.90	37.91	7.47	32.49	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



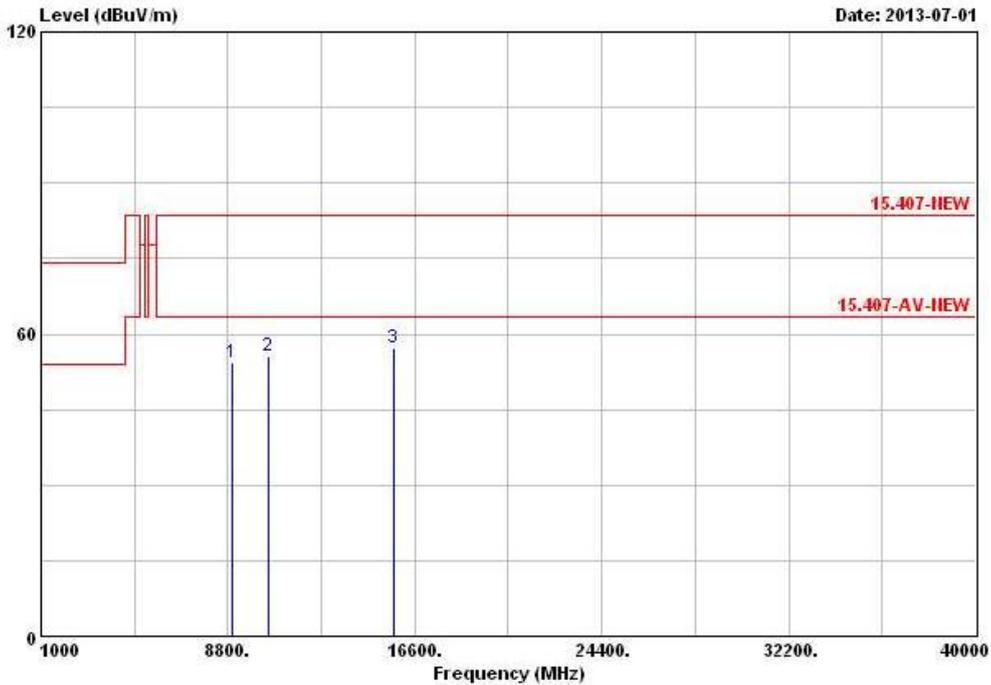
Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 7820.000	52.24	-11.30	63.54	43.74	37.62	3.85	32.97	PK	---	---
2 10480.000	55.98	-7.56	63.54	44.04	39.60	5.23	32.89	PK	---	---
3 15720.000	56.74	-6.80	63.54	43.98	37.70	7.58	32.52	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



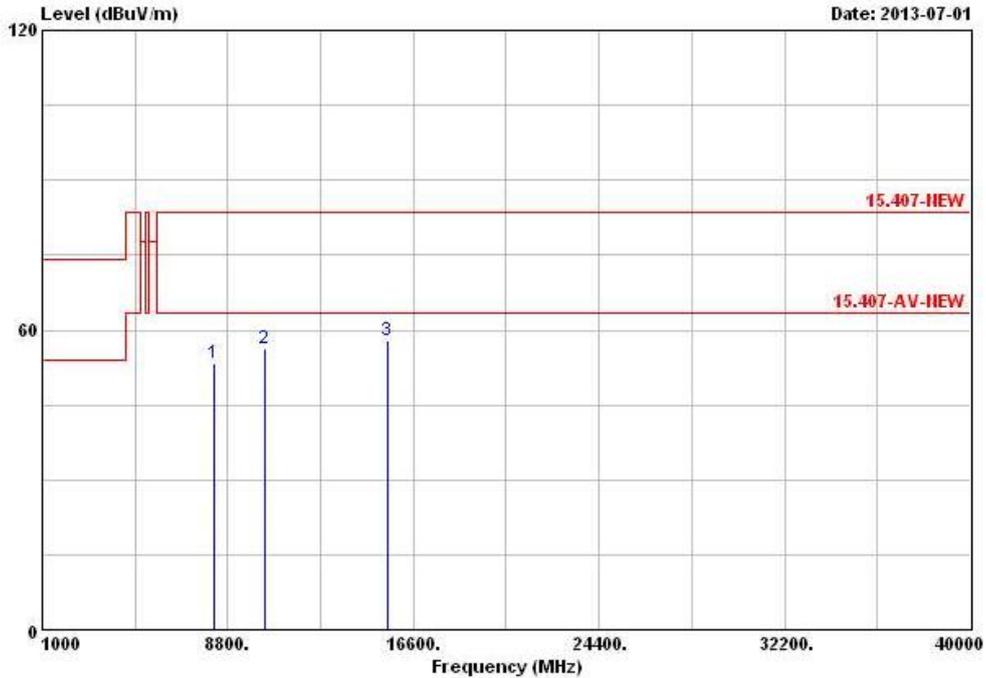
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8990.000	54.31	-9.23	63.54	44.14	38.12	5.23	33.18	PK	---	---
2	10480.000	55.77	-7.77	63.54	43.83	39.60	5.23	32.89	PK	---	---
3	15720.000	57.39	-6.15	63.54	44.63	37.70	7.58	32.52	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



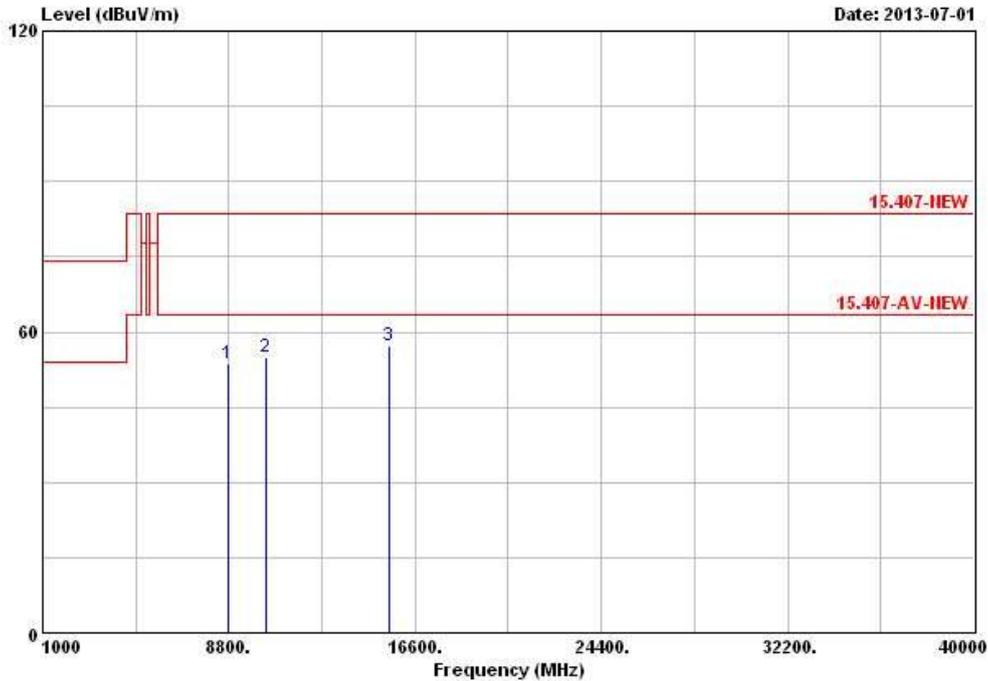
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8190.000	53.18	-10.36	63.54	44.22	38.14	3.83	33.01	PK	---	---
2	10360.000	56.17	-7.37	63.54	44.30	39.60	5.27	33.00	PK	---	---
3	15540.000	57.94	-5.60	63.54	44.93	38.04	7.43	32.46	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



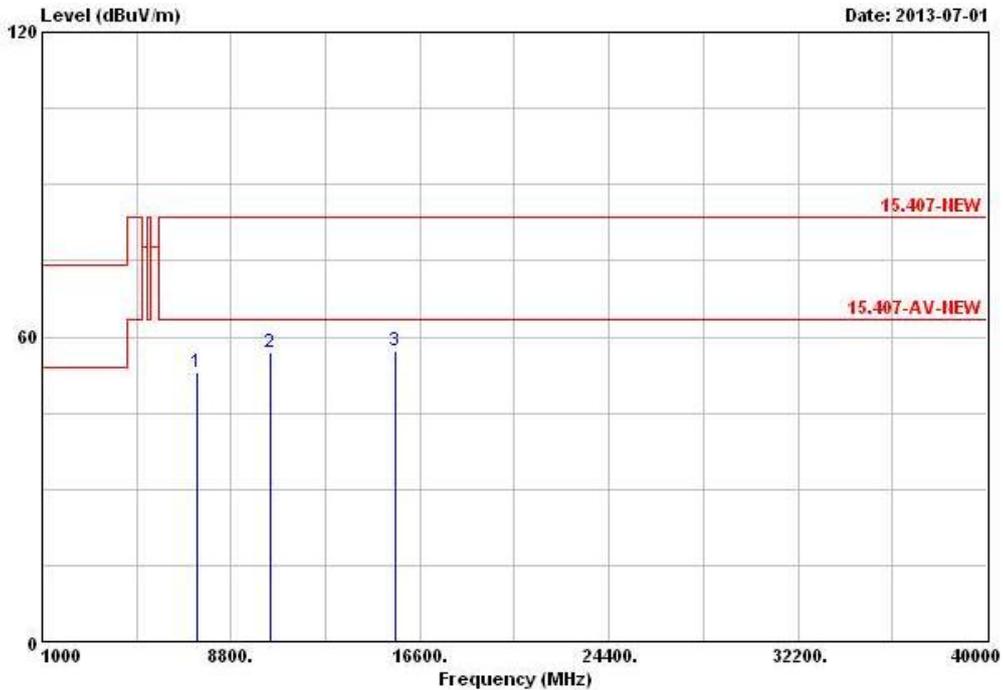
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8790.000	53.82	-9.72	63.54	43.81	38.36	4.76	33.11	PK	---	---
2	10360.000	54.95	-8.59	63.54	43.08	39.60	5.27	33.00	PK	---	---
3	15540.000	57.28	-6.26	63.54	44.27	38.04	7.43	32.46	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



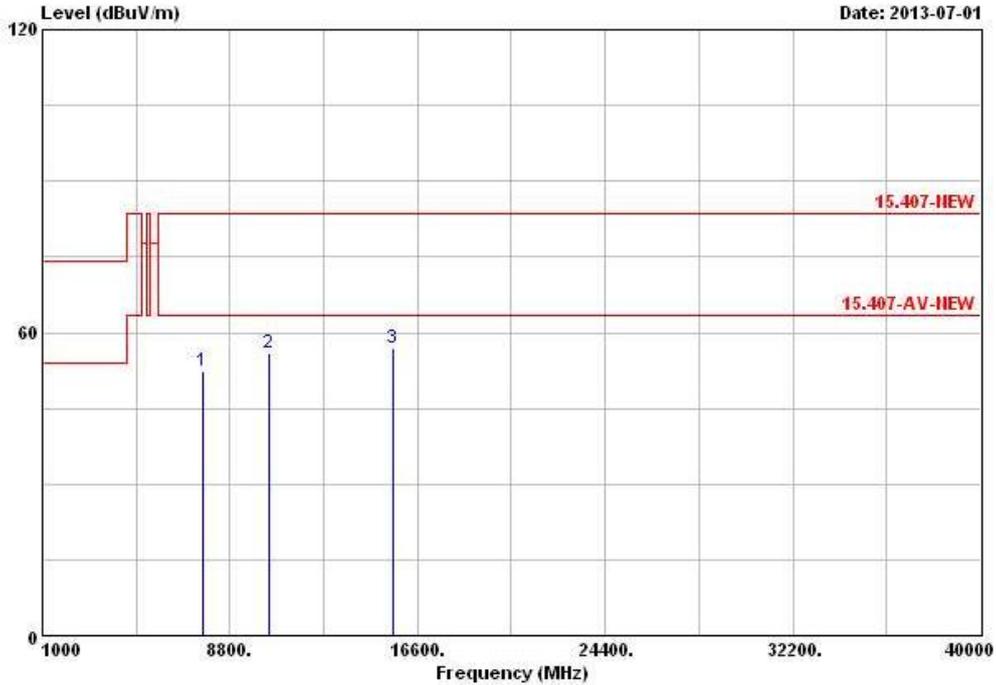
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7430.000	52.87	-10.67	63.54	44.40	37.20	4.17	32.90	PK	---	---
2	10400.000	56.89	-6.65	63.54	44.98	39.60	5.26	32.95	PK	---	---
3	15600.000	57.13	-6.41	63.54	44.24	37.91	7.47	32.49	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



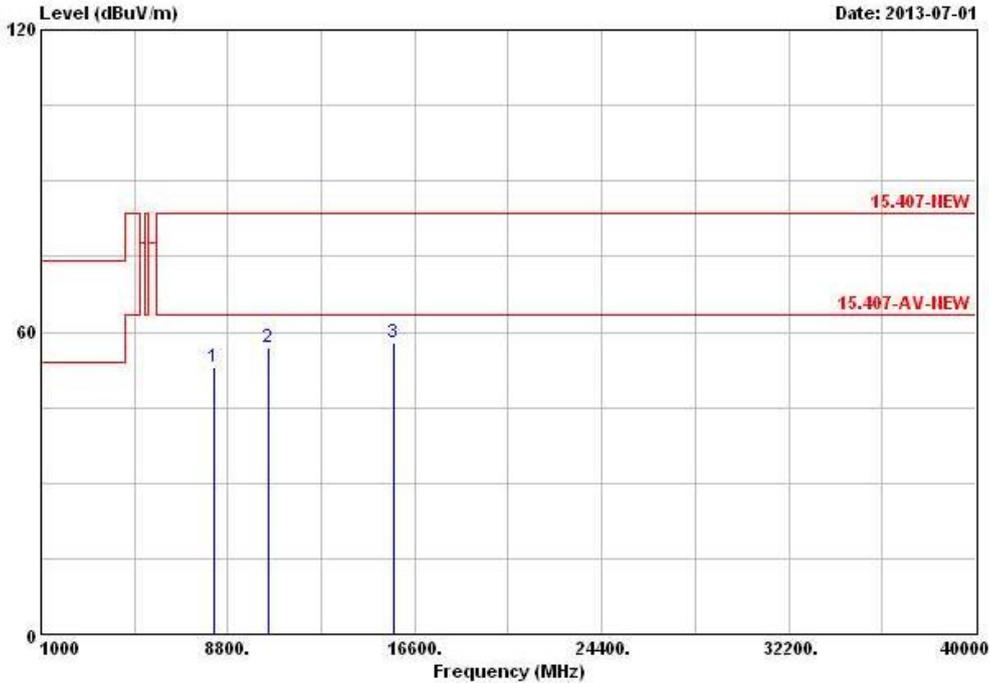
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7700.000	52.21	-11.33	63.54	43.71	37.50	3.96	32.96	PK	---	---
2	10400.000	55.90	-7.64	63.54	43.99	39.60	5.26	32.95	PK	---	---
3	15600.000	57.06	-6.48	63.54	44.17	37.91	7.47	32.49	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



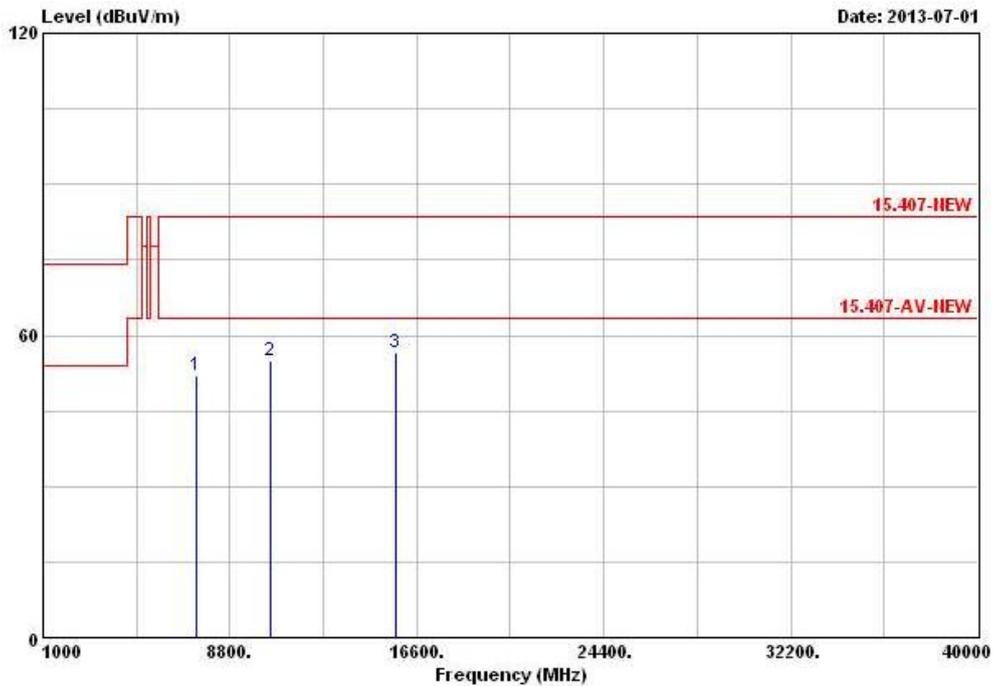
Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB		cm	deg
1 8230.000	53.16	-10.38	63.54	44.11	38.20	3.86	33.01 PK	---	---
2 10480.000	56.86	-6.68	63.54	44.92	39.60	5.23	32.89 PK	---	---
3 15720.000	58.04	-5.50	63.54	45.28	37.70	7.58	32.52 PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



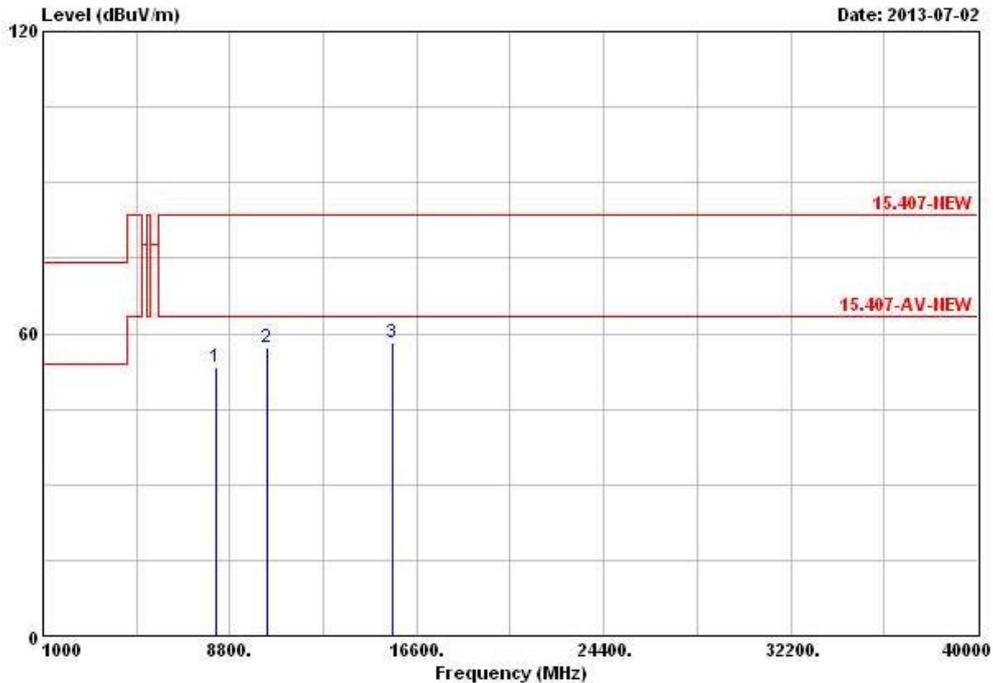
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7420.000	52.12	-11.42	63.54	43.65	37.20	4.17	32.90	PK	---	---
2	10480.000	55.12	-8.42	63.54	43.18	39.60	5.23	32.89	PK	---	---
3	15720.000	56.72	-6.82	63.54	43.96	37.70	7.58	32.52	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



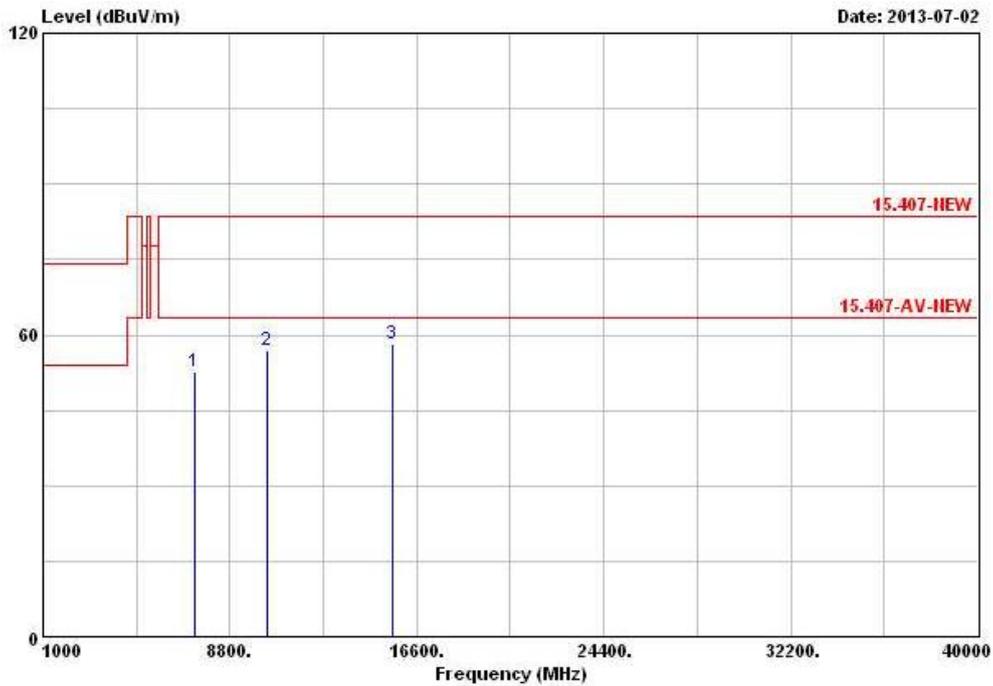
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8220.000	53.32	-10.22	63.54	44.27	38.20	3.86	33.01	PK	---	---
2	10380.000	57.19	-6.35	63.54	45.30	39.60	5.26	32.97	PK	---	---
3	15570.000	58.12	-5.42	63.54	45.14	37.98	7.47	32.47	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



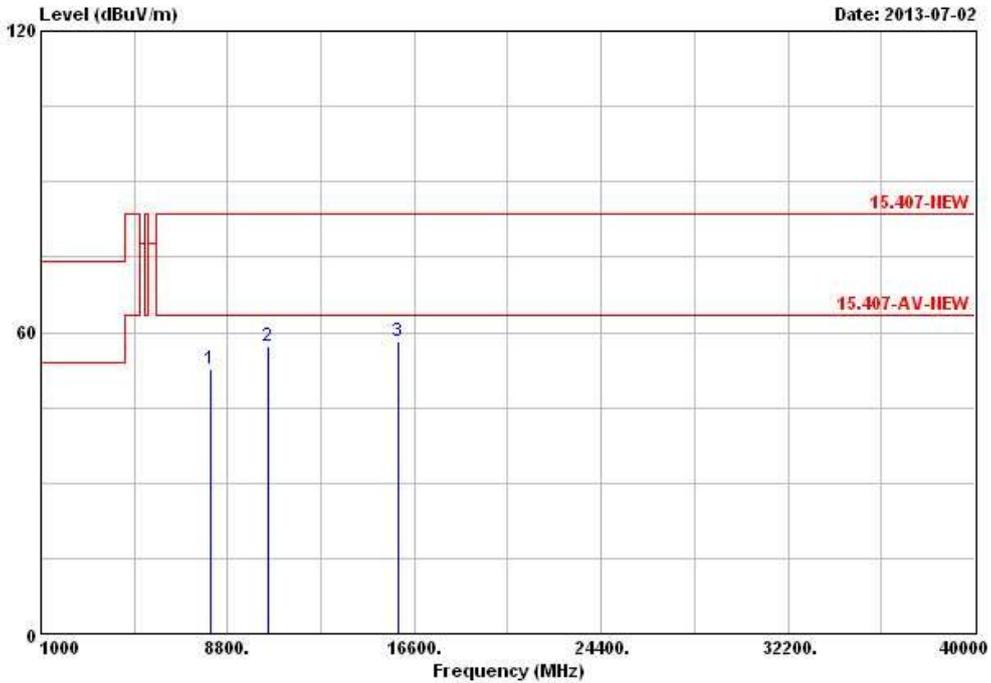
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7350.000	52.60	-10.94	63.54	44.16	37.11	4.21	32.88	PK	---	---
2	10380.000	56.87	-6.67	63.54	44.98	39.60	5.26	32.97	PK	---	---
3	15570.000	58.14	-5.40	63.54	45.16	37.98	7.47	32.47	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

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

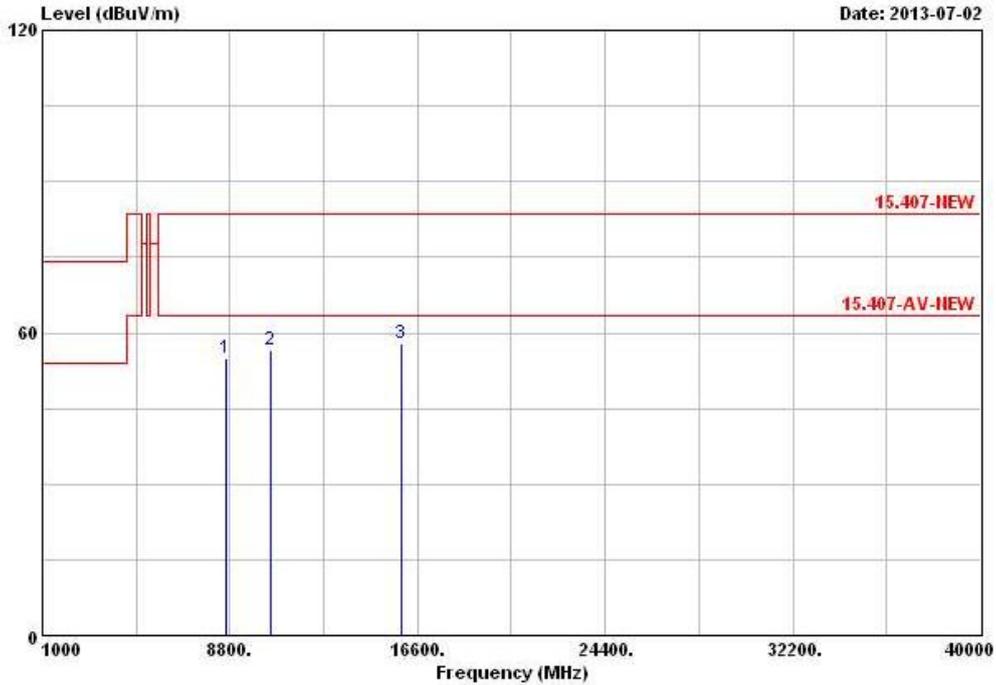


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8060.000	52.73	-30.81	83.54	44.09	37.89	3.76	33.01	PK	---	---
2	10460.000	57.16	-26.38	83.54	45.24	39.60	5.23	32.91	PK	---	---
3	15960.000	58.26	-25.28	83.54	45.76	37.26	7.85	32.61	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	1	Polarization	H



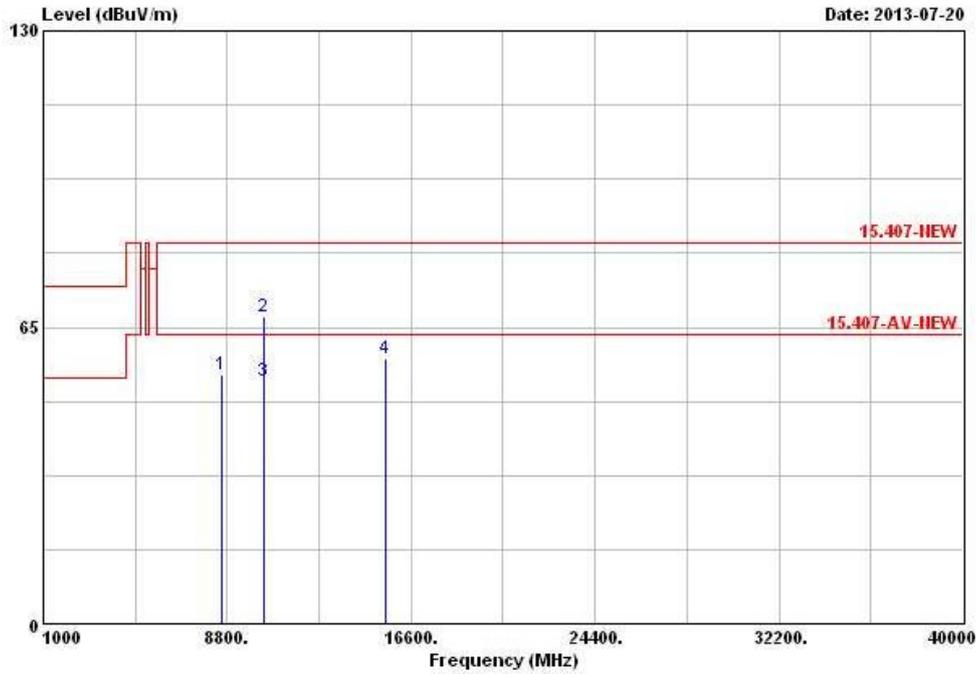
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8620.000	54.86	-28.68	83.54	45.06	38.56	4.30	33.06	PK	---	---
2	10460.000	56.52	-27.02	83.54	44.60	39.60	5.23	32.91	PK	---	---
3	15960.000	57.75	-25.79	83.54	45.25	37.26	7.85	32.61	PK	---	---

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	2	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 @ 8580.000	54.73	-8.81	63.54	44.98	38.60	4.20	33.05	PK	---	---
2 10360.000	67.43	-16.11	83.54	55.56	39.60	5.27	33.00	Peak	---	---
3 @10360.000	53.26	-10.28	63.54	41.39	39.60	5.27	33.00	Average	---	---
4 @15540.000	58.00	-5.54	63.54	44.99	38.04	7.43	32.46	PK	---	---

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