



International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

FCC Test Report

FCC ID : ACQ-VIP2502W
Equipment : VIP Matrix
Model No. : VIP2502W
Brand Name : ARRIS
Applicant : ARRIS Group, Inc.
Address : 101 Tournament Drive, Horsham,
Pennsylvania, United States, 19044, U.S.A.
Manufacturer : AMPAK TECHNOLOGY (SUZHOU) INC.
Address : NO.1, Zheng Wen Road. New & High Tech
Industrial Park, Changshu Economic
Development Zone , JiangSuProvince, 215500,
P.R.C
Standard : 47 CFR FCC Part 15.247
Received Date : Jul. 23, 2013
Tested Date : Jul. 25 ~ Aug. 08, 2013

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

Approved & Reviewed by:


Gary Chang / Manager





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Release Record

Report No.	Version	Description	Issued Date
FR372301AI	Rev. 01	Initial issue	Sep. 13, 2013



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.175MHz 45.50 (Margin -9.22dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 11510.00MHz 52.98 (Margin -1.02dB) - AV	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 27.28	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass



1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5725-5850	a	5745-5825	149-165 [5]	4	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	4	MCS 0-31
5725-5850	n (HT40)	5755-5795	151-159 [2]	4	MCS 0-31
Note 1: RF output power specifies that Maximum Conducted Output Power.					
Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.					
Note 3: HW version: V02, SW version: V01.03.09.					

1.1.2 Antenna Details

Ant. No.	Type	Operating Frequency (MHz) / Gain (dBi)				Connector
		5150~5250	5250~5350	5470~5725	5725~5850	
1	PCB	0.4	0.4	0.5	0.4	---
2	PCB	0.4	0.4	0.5	0.4	---
3	PCB	0.4	0.4	0.5	0.4	---
4	PCB	0.4	0.4	0.5	0.4	---

Note : Above antenna gain value is for single TX antenna. Correlated antenna gain is 6.42 dBi for 5150~5350 and 5725~5850 MHz and 6.52dBi for 5470~5725 MHz

1.1.3 EUT Operational Condition

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



1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Adapter 1	Brand Name: LITEON Model Name: PB-1180-1M01 Power Rating: I/P: 100-132Vac, 60Hz, 0.6A O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded cable w/o core
2	Adapter 2	Brand Name: APD Model Name: WB-18F12FU Power Rating: I/P: 120Vac, 60Hz, 0.6A O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded cable w/o core
3	Adapter 3	Brand Name: LEI Model Name: ML18-V120150-A1 Power Rating: I/P: 120Vac, 60Hz, 0.5A O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded cable w/o core
4	Adapter 4	Brand Name: DELTA Model Name: ADP-18AR-AA Power Rating: I/P: 110-120Vac, 57-63Hz, 0.8A O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded cable w/o core
5	Remote control 1	Brand: UEI, Model: 6250BC0-0001-R
6	Remote control 2	Brand: Ruwido, Model: 16685506
7	HDMI cable 1	Brand: Webb Wells, Model: HF1213, 1.8m shielded cable w/o core
8	HDMI cable 2	Brand: Webb Wells, Model: HF1257, 1.8m shielded cable w/o core
9	HDMI cable 3	Brand: Wieson, Model: G9856HT490-094, 1.8m shielded cable with 2 cores
10	HDMI cable 4	Brand: Interconnect, Model: 18-94H1CS-054, 1.8m shielded cable w/o core
11	Ethernet	Model: 2CB-3703P043L, 3m non-shielded cable w/o core

NOTE: HDMI cable 1 & HDMI cable 2 are the same, different model names are for marketing purpose.



1.1.5 Channel List

Frequency band (MHz)		5725~5850	
802.11 a / HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test tool	Hyperterminal V5.1
Duty Cycle Of Test Signal (%)	99.20% - IEEE 802.11a 99.14% - IEEE 802.11n (HT20) 98.59% - IEEE 802.11n (HT40)
Duty Factor	0.03 - IEEE 802.11a 0.04 - IEEE 802.11n (HT20) 0.06 - IEEE 802.11n (HT40)

1.1.7 Power Setting

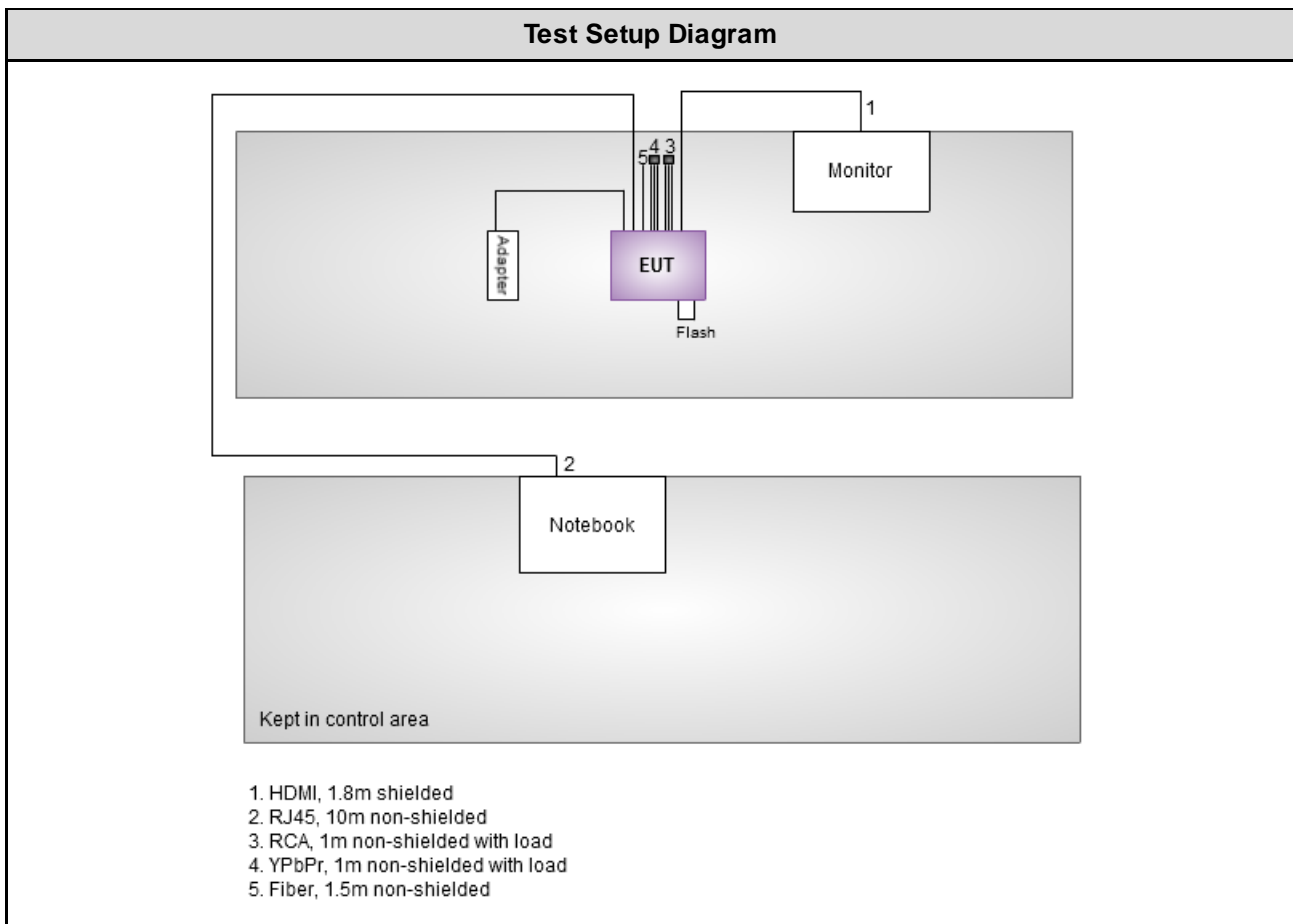
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	21
11a	5785	20
11a	5825	21
HT20	5745	21
HT20	5785	20
HT20	5825	21
HT40	5755	19
HT40	5795	22



1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	HDMI, 1.8m shielded
2	Monitor	DELL	U2410f	---	DoC	RJ45, 10m non-shielded
3	Dongle	Transcend	JetFlash V85	---	---	---

1.3 Test Setup Chart





1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 02, 2012	Oct. 01, 2013
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Dec. 04, 2012	Dec. 03, 2013
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2012	Dec. 03, 2013
ISN	TESEQ	ISN T800	34406	Apr. 08, 2013	Apr. 07, 2014
ISN	TESEQ	ISN T200A	30494	Apr. 09, 2013	Apr. 08, 2014
ISN	TESEQ	ISN T8-Cat6	27262	Sep. 17, 2012	Sep. 16, 2013
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014
RF Current Probe	FCC	F-33-4	121630	Dec. 04, 2012	Dec. 03, 2013
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013
ESH3-Z6 V-Network(+)	R&S	ESH3-Z6	100920	Nov. 21, 2012	Nov. 20, 2013
ESH3-Z6 V-Network(-)	R&S	ESH3-Z6	100951	Jan. 30, 2013	Jan. 29, 2014
Two-Line V-Network	R&S	ENV216	101579	Jan. 07, 2013	Jan. 06, 2014
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	03	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014
Receiver	ROHDE&SCHWARZ	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013



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Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	60612	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 29, 2012	Nov. 28, 2013
Power Meter	Anritsu	ML2495A	1241002	Oct. 15, 2012	Oct. 14, 2013
Power Sensor	Anritsu	MA2411B	1027366	Oct. 24, 2012	Oct. 23, 2013
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 13, 2014
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 13, 2013	Mar. 12, 2014
Wideband Radio Communication Tester	R&S	CMW500	106070	Jan. 29, 2013	Jan. 28, 2014
Bluetooth Tester	R&S	CBT	100959	Jan. 09, 2013	Jan. 08, 2014
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	Apr. 19, 2013	Apr. 18, 2014
Mobile WiMAX test set	Agilent	E6651A	MY47310158	Oct. 9, 2012	Oct. 9, 2013
Note: Calibration Interval of instruments listed above is one year.					



1.5 Test Standards

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

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

FCC KDB 662911 D01 Multiple Transmitter Output v02

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 35.286 Hz
Conducted power	± 0.536 dB
Frequency error	± 35.286 Hz
Temperature	± 0.3 °C
Conducted emission	± 2.946 dB
AC conducted emission	± 2.43 dB
Radiated emission	± 2.49 dB



2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	23°C / 59%	Skys Huang
Radiated Emissions	03CH01-WS	24°C / 66%	Haru Yang Aska Huang
RF Conducted	TH01-WS	22°C / 65%	Felix Sung

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data rate (Mbps)	Test Configuration
Conducted Emissions	HT40	5795	MCS 0	---
Radiated Emissions (below 1GHz)	HT40	5795	MCS 0	---
Radiated Emissions (above 1GHz)	11a HT20 HT40	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795	6 MCS 0 MCS 0	---
Fundamental Emission Output Power	11a HT20 HT40	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795	6 MCS 0 MCS 0	---
6dB bandwidth				
Power spectral density				

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. Adapter 1, 2, 3, 4 and HDMI cable 1, 3, 4 had been covered during the pretest. The worst cases were found at adapter 4 and HDMI cable 1. Therefore, only the data was recorded in this report.



3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

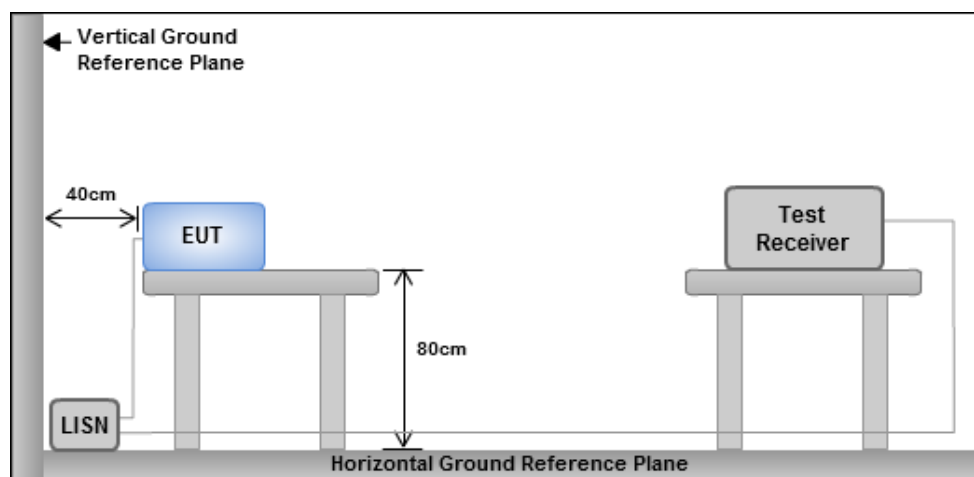
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup

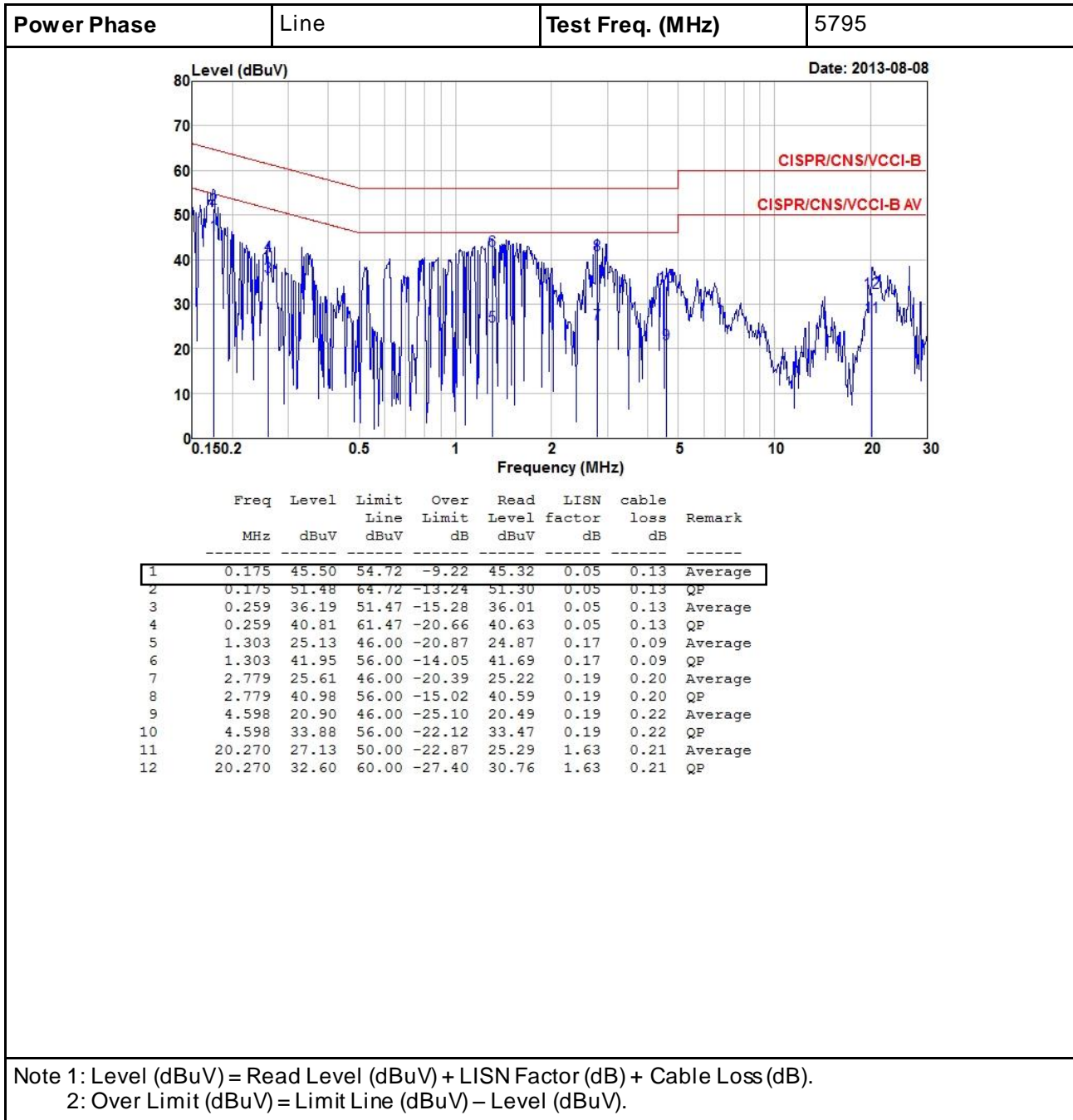


Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes



3.1.4 Test Result of Conducted Emissions





Power Phase	Neutral	Test Freq. (MHz)	5795																																																																																																																																						
<div><div>Level (dBuV)</div><div>Date: 2013-08-08</div><div>Frequency (MHz)</div></div>																																																																																																																																									
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>LISN</th><th>cable</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>factor</th><th>loss</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.170</td><td>40.25</td><td>54.94</td><td>-14.69</td><td>40.10</td><td>0.04</td><td>0.11</td><td>Average</td></tr><tr><td>2</td><td>0.170</td><td>52.43</td><td>64.94</td><td>-12.51</td><td>52.28</td><td>0.04</td><td>0.11</td><td>QP</td></tr><tr><td>3</td><td>0.352</td><td>36.77</td><td>48.91</td><td>-12.14</td><td>36.64</td><td>0.06</td><td>0.07</td><td>Average</td></tr><tr><td>4</td><td>0.352</td><td>39.09</td><td>58.91</td><td>-19.82</td><td>38.96</td><td>0.06</td><td>0.07</td><td>QP</td></tr><tr><td>5</td><td>1.310</td><td>30.16</td><td>46.00</td><td>-15.84</td><td>29.91</td><td>0.16</td><td>0.09</td><td>Average</td></tr><tr><td>6</td><td>1.310</td><td>42.94</td><td>56.00</td><td>-13.06</td><td>42.69</td><td>0.16</td><td>0.09</td><td>QP</td></tr><tr><td>7</td><td>1.585</td><td>34.86</td><td>46.00</td><td>-11.14</td><td>34.57</td><td>0.17</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>1.585</td><td>40.37</td><td>56.00</td><td>-15.63</td><td>40.08</td><td>0.17</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>2.915</td><td>26.95</td><td>46.00</td><td>-19.05</td><td>26.58</td><td>0.17</td><td>0.20</td><td>Average</td></tr><tr><td>10</td><td>2.915</td><td>43.42</td><td>56.00</td><td>-12.58</td><td>43.05</td><td>0.17</td><td>0.20</td><td>QP</td></tr><tr><td>11</td><td>20.814</td><td>29.24</td><td>50.00</td><td>-20.76</td><td>27.36</td><td>1.63</td><td>0.25</td><td>Average</td></tr><tr><td>12</td><td>20.814</td><td>34.07</td><td>60.00</td><td>-25.93</td><td>32.19</td><td>1.63</td><td>0.25</td><td>QP</td></tr></table>				Freq	Level	Limit	Over	Read	LISN	cable			MHz	dBuV	Line	Limit	Level	factor	loss	Remark				dBuV	dB	dBuV	dB	dB		1	0.170	40.25	54.94	-14.69	40.10	0.04	0.11	Average	2	0.170	52.43	64.94	-12.51	52.28	0.04	0.11	QP	3	0.352	36.77	48.91	-12.14	36.64	0.06	0.07	Average	4	0.352	39.09	58.91	-19.82	38.96	0.06	0.07	QP	5	1.310	30.16	46.00	-15.84	29.91	0.16	0.09	Average	6	1.310	42.94	56.00	-13.06	42.69	0.16	0.09	QP	7	1.585	34.86	46.00	-11.14	34.57	0.17	0.12	Average	8	1.585	40.37	56.00	-15.63	40.08	0.17	0.12	QP	9	2.915	26.95	46.00	-19.05	26.58	0.17	0.20	Average	10	2.915	43.42	56.00	-12.58	43.05	0.17	0.20	QP	11	20.814	29.24	50.00	-20.76	27.36	1.63	0.25	Average	12	20.814	34.07	60.00	-25.93	32.19	1.63	0.25	QP
	Freq	Level	Limit	Over	Read	LISN	cable																																																																																																																																		
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12	20.814	34.07	60.00	-25.93	32.19	1.63	0.25	QP																																																																																																																																	
<p>Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).</p>																																																																																																																																									



3.2 6dB and Occupied Bandwidth

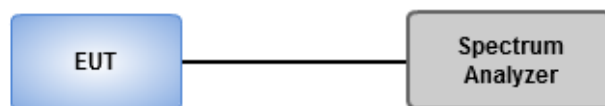
3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup

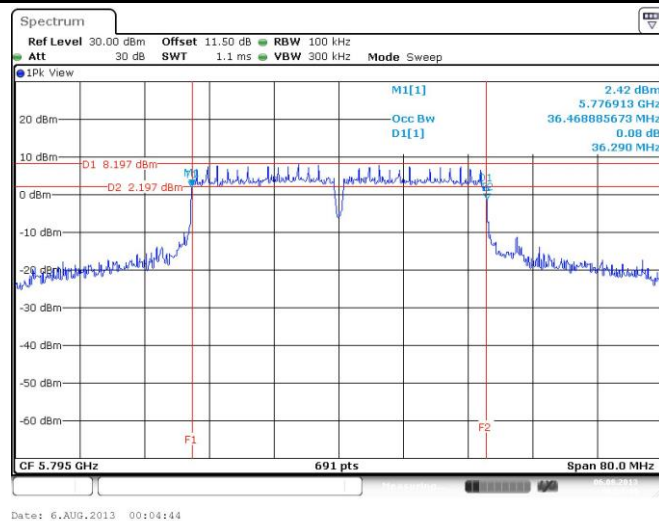




3.2.4 Test Result of 6dB and Occupied Bandwidth

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5745	16.29	16.35	16.35	16.35	500
11a	4	5785	16.35	16.35	16.35	16.35	500
11a	4	5825	16.35	16.35	16.35	16.35	500
HT20	4	5745	17.57	17.57	17.57	17.62	500
HT20	4	5785	17.62	17.62	17.62	17.62	500
HT20	4	5825	17.57	17.57	17.62	17.62	500
HT40	4	5755	36.17	35.94	35.83	36.17	500
HT40	4	5795	35.94	36.17	35.71	36.29	500

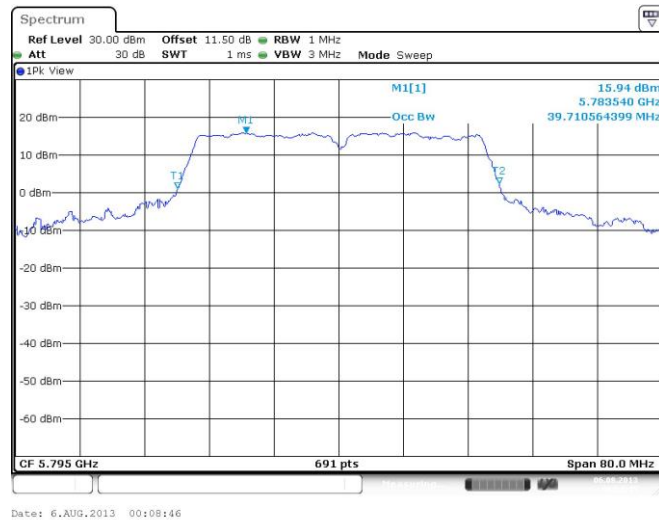
Worst Plots





Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11a	4	5745	17.48	17.60	17.95	17.66
11a	4	5785	17.37	17.37	17.66	17.42
11a	4	5825	17.77	18.06	18.23	17.89
HT20	4	5745	18.76	18.99	18.64	18.70
HT20	4	5785	18.58	18.70	18.29	18.47
HT20	4	5825	18.87	19.74	18.81	18.87
HT40	4	5755	37.05	37.74	37.51	37.05
HT40	4	5795	38.09	39.71	38.67	38.32

Worst Plots





3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1 Watt.

- ☐ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.
- ☒ Antenna gain $> 6\text{dBi}$
 - ☒ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
 - ☐ Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

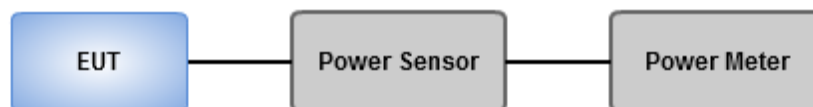
Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations, no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

- ☐ Maximum Peak Conducted Output Power
 - ☐ **Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
 - ☐ **Power meter**
 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- ☒ Maximum Conducted Output Power (For reference only)
 - ☐ **Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = RMS.
 2. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
 3. Perform the measurement over a single sweep.
 4. Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW(26dBc) band edges.
 - ☒ **Power meter**
 1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.



3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5745	20.43	21.03	20.82	20.93	481.834	26.83	30
11a	4	5785	19.54	20.08	19.88	20.13	392.122	25.93	30
11a	4	5825	20.34	21.1	20.82	20.97	482.776	26.84	30
HT20	4	5745	20.52	21.19	20.93	21.10	496.947	26.96	30
HT20	4	5785	19.88	20.44	20.04	20.26	415.032	26.18	30
HT20	4	5825	20.79	21.2	21.10	21.30	515.497	27.12	30
HT40	4	5755	19.12	19.29	19.01	19.41	333.489	25.23	30
HT40	4	5795	21.02	21.48	21.06	21.45	534.359	27.28	30



3.4 Power Spectral Density

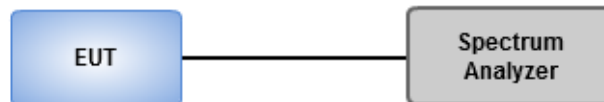
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- ☐ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 30kHz, VBW = 100kHz.
 2. Detector = Peak, Sweep time = auto couple.
 3. Trace mode = max hold, allow trace to fully stabilize.
 4. Use the peak marker function to determine the maximum amplitude level.
- ☒ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 30kHz, VBW = 100 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Perform the measurement over a single sweep.
 4. Use the peak marker function to determine the maximum amplitude level.

3.4.3 Test Setup





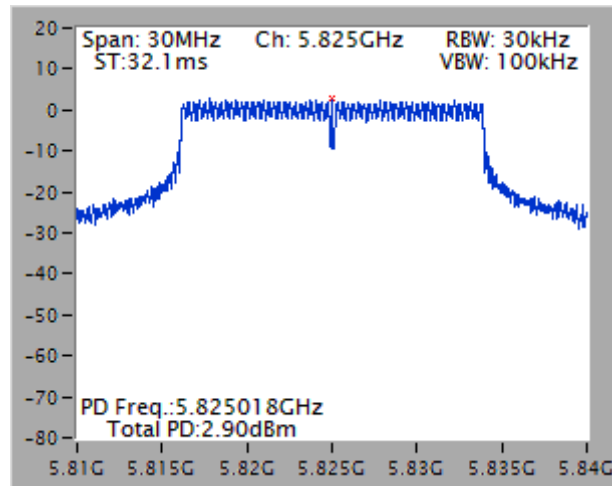
3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/30kHz)	Limit (dBm/3kHz)
11a	4	5745	2.54	7.58
11a	4	5785	1.67	7.58
11a	4	5825	2.84	7.58
HT20	4	5745	2.13	7.58
HT20	4	5785	1.13	7.58
HT20	4	5825	2.90	7.58
HT40	4	5755	-3.01	7.58
HT40	4	5795	-0.21	7.58

Note:

1. Test result is bin-by-bin summing measured value of each TX port.
2. Directional gain of 5725~5850 MHz band is $0.4\text{dBi} + 10 \cdot \log(4/1) \text{ dB} = 6.42\text{dBi} > 6\text{dBi}$
Limit shall be reduced to $8\text{dBm} - (6.42-6) \text{ dB} = 7.58 \text{ dBm}$

Worst Plots





3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions 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:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

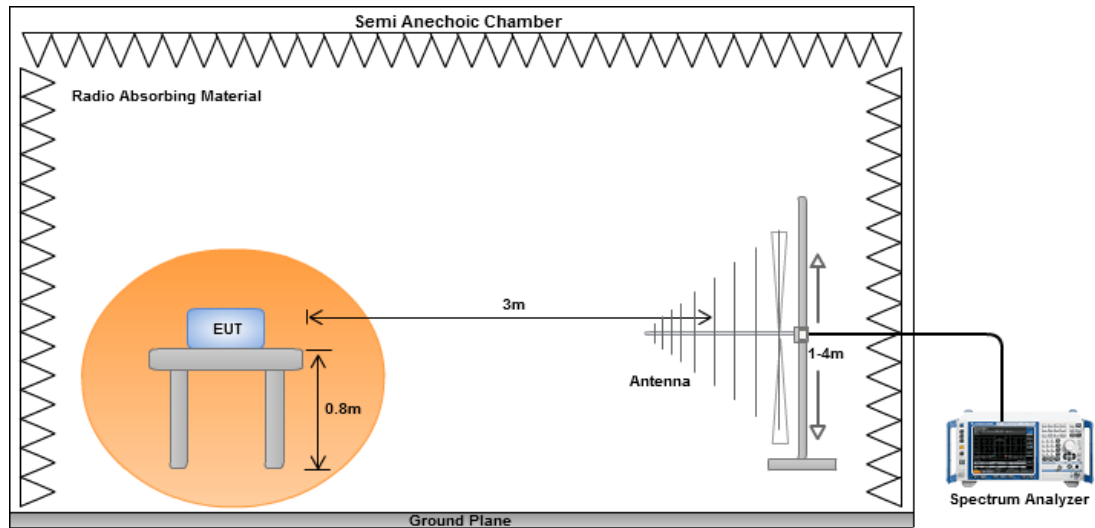
Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

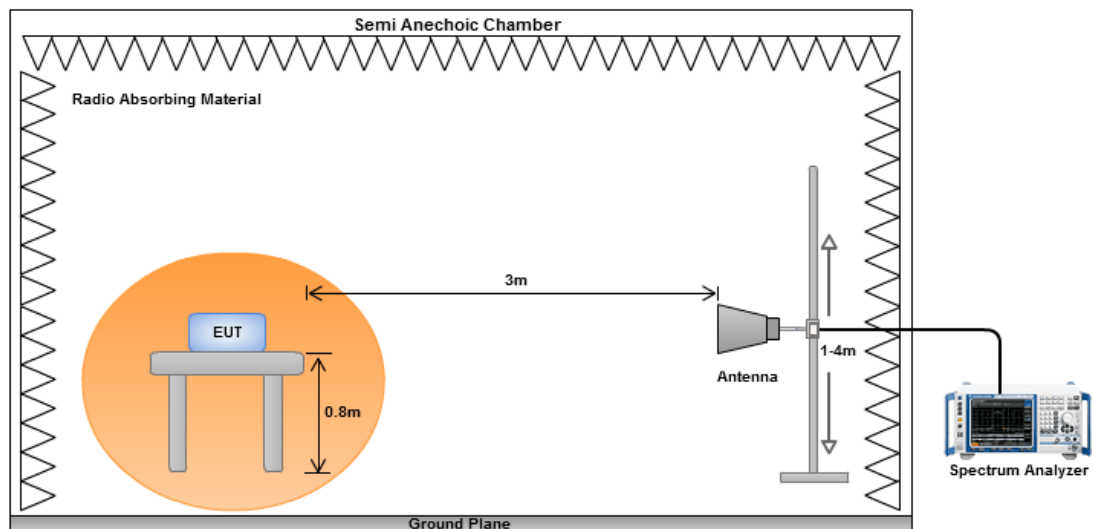


3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz





3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Polarization	Horizontal			Test Freq. (MHz)		5795																																																																									
<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p></div> <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>108.57</td><td>35.85</td><td>43.50</td><td>-7.65</td><td>56.07</td><td>-20.22</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>299.66</td><td>39.93</td><td>46.00</td><td>-6.07</td><td>56.18</td><td>-16.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>475.23</td><td>42.96</td><td>46.00</td><td>-3.04</td><td>55.02</td><td>-12.06</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>600.00</td><td>43.37</td><td>46.00</td><td>-2.63</td><td>53.11</td><td>-9.74</td><td>QP</td><td>---</td><td>---</td></tr><tr><td>5</td><td>725.00</td><td>43.32</td><td>46.00</td><td>-2.68</td><td>51.06</td><td>-7.74</td><td>QP</td><td>---</td><td>---</td></tr><tr><td>6</td><td>825.40</td><td>42.89</td><td>46.00</td><td>-3.11</td><td>49.34</td><td>-6.45</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	108.57	35.85	43.50	-7.65	56.07	-20.22	Peak	---	---	2	299.66	39.93	46.00	-6.07	56.18	-16.25	Peak	---	---	3	475.23	42.96	46.00	-3.04	55.02	-12.06	Peak	---	---	4	600.00	43.37	46.00	-2.63	53.11	-9.74	QP	---	---	5	725.00	43.32	46.00	-2.68	51.06	-7.74	QP	---	---	6	825.40	42.89	46.00	-3.11	49.34	-6.45	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	108.57	35.85	43.50	-7.65	56.07	-20.22	Peak	---	---																																																																						
2	299.66	39.93	46.00	-6.07	56.18	-16.25	Peak	---	---																																																																						
3	475.23	42.96	46.00	-3.04	55.02	-12.06	Peak	---	---																																																																						
4	600.00	43.37	46.00	-2.63	53.11	-9.74	QP	---	---																																																																						
5	725.00	43.32	46.00	-2.68	51.06	-7.74	QP	---	---																																																																						
6	825.40	42.89	46.00	-3.11	49.34	-6.45	Peak	---	---																																																																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																															



International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.
Tel: 886-3-271-8666 Fax: 886-3-318-0155

Polarization	Vertical	Test Freq. (MHz)	5795						
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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

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International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.
Tel: 886-3-271-8666 Fax: 886-3-318-0155

Polarization	Vertical	Test Freq. (MHz)	5745																																																																																										
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div><div>1000</div><div>6000.</div><div>10000.</div><div>14000.</div><div>18000.</div><div>22000.</div><div>26000.</div><div>30000.</div><div>34000.</div><div>40000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div></div><div><div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1066.00</td><td>38.92</td><td>54.00</td><td>-15.08</td><td>48.03</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>42.84</td><td>74.00</td><td>-31.16</td><td>51.95</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7660.00</td><td>39.90</td><td>54.00</td><td>-14.10</td><td>30.27</td><td>9.63</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7660.00</td><td>51.05</td><td>74.00</td><td>-22.95</td><td>41.42</td><td>9.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>11490.00</td><td>52.94</td><td>54.00</td><td>-1.06</td><td>37.97</td><td>14.97</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11490.00</td><td>62.70</td><td>74.00</td><td>-11.30</td><td>47.73</td><td>14.97</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div></div></div></div>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	1066.00	38.92	54.00	-15.08	48.03	-9.11	Average	---	---	2	1066.00	42.84	74.00	-31.16	51.95	-9.11	Peak	---	---	3	7660.00	39.90	54.00	-14.10	30.27	9.63	Average	---	---	4	7660.00	51.05	74.00	-22.95	41.42	9.63	Peak	---	---	5	11490.00	52.94	54.00	-1.06	37.97	14.97	Average	---	---	6	11490.00	62.70	74.00	-11.30	47.73	14.97	Peak	---	---
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Polarization	Horizontal		Test Freq. (MHz)		5785																																																																							
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Polarization	Vertical	Test Freq. (MHz)	5785																																																																						
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Polarization	Horizontal			Test Freq. (MHz)		5825																																																																																													
<div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>6000.</div><div>10000.</div><div>14000.</div><div>18000.</div><div>22000.</div><div>26000.</div><div>30000.</div><div>34000.</div><div>40000</div></div></div><div><div>Frequency (MHz)</div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div><div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1066.00</td><td>39.76</td><td>54.00</td><td>-14.24</td><td>48.87</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>43.83</td><td>74.00</td><td>-30.17</td><td>52.94</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7766.66</td><td>37.47</td><td>54.00</td><td>-16.53</td><td>27.76</td><td>9.71</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7766.66</td><td>50.63</td><td>74.00</td><td>-23.37</td><td>40.92</td><td>9.71</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>11650.00</td><td>49.08</td><td>54.00</td><td>-4.92</td><td>34.32</td><td>14.76</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11650.00</td><td>61.58</td><td>74.00</td><td>-12.42</td><td>46.82</td><td>14.76</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div></div></div></div>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	1066.00	39.76	54.00	-14.24	48.87	-9.11	Average	---	---	2	1066.00	43.83	74.00	-30.17	52.94	-9.11	Peak	---	---	3	7766.66	37.47	54.00	-16.53	27.76	9.71	Average	---	---	4	7766.66	50.63	74.00	-23.37	40.92	9.71	Peak	---	---	5	11650.00	49.08	54.00	-4.92	34.32	14.76	Average	---	---	6	11650.00	61.58	74.00	-12.42	46.82	14.76	Peak	---	---
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Polarization	Vertical				Test Freq. (MHz)		5825																																																																								
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3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Polarization	Horizontal			Test Freq. (MHz)		5745			
<div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.
Tel: 886-3-271-8666 Fax: 886-3-318-0155

Polarization	Vertical		Test Freq. (MHz)		5745																																																																										
<div><div><div>Level (dBuV/m)</div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1066.00</td><td>39.06</td><td>54.00</td><td>-14.94</td><td>48.17</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>43.13</td><td>74.00</td><td>-30.87</td><td>52.24</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7660.00</td><td>40.04</td><td>54.00</td><td>-13.96</td><td>30.41</td><td>9.63</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7660.00</td><td>51.31</td><td>74.00</td><td>-22.69</td><td>41.68</td><td>9.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>11490.00</td><td>52.40</td><td>54.00</td><td>-1.60</td><td>37.43</td><td>14.97</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11490.00</td><td>64.84</td><td>74.00</td><td>-9.16</td><td>49.87</td><td>14.97</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1066.00	39.06	54.00	-14.94	48.17	-9.11	Average	---	---	2	1066.00	43.13	74.00	-30.87	52.24	-9.11	Peak	---	---	3	7660.00	40.04	54.00	-13.96	30.41	9.63	Average	---	---	4	7660.00	51.31	74.00	-22.69	41.68	9.63	Peak	---	---	5	11490.00	52.40	54.00	-1.60	37.43	14.97	Average	---	---	6	11490.00	64.84	74.00	-9.16	49.87	14.97	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
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6	11490.00	64.84	74.00	-9.16	49.87	14.97	Peak	---	---																																																																						
<div><div>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div><div>Note 2: 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.</div><div>Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</div></div>																																																																															



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Polarization	Horizontal		Test Freq. (MHz)		5785	
<div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.
Tel: 886-3-271-8666 Fax: 886-3-318-0155

Polarization	Vertical	Test Freq. (MHz)	5785																																																																						
<div><div><div>Level (dBuV/m)</div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1066.00</td><td>38.74</td><td>54.00</td><td>-15.26</td><td>47.85</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>42.36</td><td>74.00</td><td>-31.64</td><td>51.47</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7713.33</td><td>40.25</td><td>54.00</td><td>-13.75</td><td>30.58</td><td>9.67</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7713.33</td><td>51.01</td><td>74.00</td><td>-22.99</td><td>41.34</td><td>9.67</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>11570.00</td><td>52.66</td><td>54.00</td><td>-1.34</td><td>37.79</td><td>14.87</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11570.00</td><td>66.03</td><td>74.00</td><td>-7.97</td><td>51.16</td><td>14.87</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1066.00	38.74	54.00	-15.26	47.85	-9.11	Average	---	---	2	1066.00	42.36	74.00	-31.64	51.47	-9.11	Peak	---	---	3	7713.33	40.25	54.00	-13.75	30.58	9.67	Average	---	---	4	7713.33	51.01	74.00	-22.99	41.34	9.67	Peak	---	---	5	11570.00	52.66	54.00	-1.34	37.79	14.87	Average	---	---	6	11570.00	66.03	74.00	-7.97	51.16	14.87	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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<div>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div> <div>Note 2: 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.</div> <div>Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</div>																																																																									



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Polarization	Horizontal		Test Freq. (MHz)		5825																																																																																											
<div><p>Level (dBuV/m)</p></div> <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1066.00</td><td>39.48</td><td>54.00</td><td>-14.52</td><td>48.59</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>43.52</td><td>74.00</td><td>-30.48</td><td>52.63</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7766.66</td><td>37.32</td><td>54.00</td><td>-16.68</td><td>27.61</td><td>9.71</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7766.66</td><td>50.45</td><td>74.00</td><td>-23.55</td><td>40.74</td><td>9.71</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>11650.00</td><td>48.83</td><td>54.00</td><td>-5.17</td><td>34.07</td><td>14.76</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11650.00</td><td>63.00</td><td>74.00</td><td>-11.00</td><td>48.24</td><td>14.76</td><td>Peak</td><td>---</td><td>---</td></tr></table>								Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	1066.00	39.48	54.00	-14.52	48.59	-9.11	Average	---	---	2	1066.00	43.52	74.00	-30.48	52.63	-9.11	Peak	---	---	3	7766.66	37.32	54.00	-16.68	27.61	9.71	Average	---	---	4	7766.66	50.45	74.00	-23.55	40.74	9.71	Peak	---	---	5	11650.00	48.83	54.00	-5.17	34.07	14.76	Average	---	---	6	11650.00	63.00	74.00	-11.00	48.24	14.76	Peak	---	---
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5	11650.00	48.83	54.00	-5.17	34.07	14.76	Average	---	---																																																																																							
6	11650.00	63.00	74.00	-11.00	48.24	14.76	Peak	---	---																																																																																							
<p>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: 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.</p> <p>Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</p>																																																																																																



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Polarization	Vertical	Test Freq. (MHz)	5825																																																																																										
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div><div>1000</div><div>6000.</div><div>10000.</div><div>14000.</div><div>18000.</div><div>22000.</div><div>26000.</div><div>30000.</div><div>34000.</div><div>40000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div></div></div><div><div><div><div><div>10650.00</div><div>7766.66</div><div>7766.66</div><div>1066.00</div><div>1066.00</div><div>10650.00</div></div></div><div><div><div><div><div>65.56</div><div>51.31</div><div>40.28</div><div>43.36</div><div>38.92</div><div>52.29</div></div></div><div><div><div><div><div>74.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>74.00</div><div>54.00</div></div></div><div><div><div><div><div>-8.44</div><div>-22.69</div><div>-13.72</div><div>-30.64</div><div>-15.08</div><div>-1.71</div></div></div><div><div><div><div><div>50.58</div><div>41.60</div><div>30.57</div><div>52.47</div><div>48.03</div><div>37.31</div></div></div><div><div><div><div><div>14.98</div><div>9.71</div><div>9.71</div><div>-9.11</div><div>-9.11</div><div>14.98</div></div></div><div><div><div><div><div>Peak</div><div>Peak</div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div></div></div></div><div><div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1066.00</td><td>38.92</td><td>54.00</td><td>-15.08</td><td>48.03</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>43.36</td><td>74.00</td><td>-30.64</td><td>52.47</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7766.66</td><td>40.28</td><td>54.00</td><td>-13.72</td><td>30.57</td><td>9.71</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7766.66</td><td>51.31</td><td>74.00</td><td>-22.69</td><td>41.60</td><td>9.71</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>10650.00</td><td>52.29</td><td>54.00</td><td>-1.71</td><td>37.31</td><td>14.98</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>10650.00</td><td>65.56</td><td>74.00</td><td>-8.44</td><td>50.58</td><td>14.98</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	1066.00	38.92	54.00	-15.08	48.03	-9.11	Average	---	---	2	1066.00	43.36	74.00	-30.64	52.47	-9.11	Peak	---	---	3	7766.66	40.28	54.00	-13.72	30.57	9.71	Average	---	---	4	7766.66	51.31	74.00	-22.69	41.60	9.71	Peak	---	---	5	10650.00	52.29	54.00	-1.71	37.31	14.98	Average	---	---	6	10650.00	65.56	74.00	-8.44	50.58	14.98	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

Polarization	Horizontal		Test Freq. (MHz)		5755				
<div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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Polarization	Vertical	Test Freq. (MHz)	5755
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>6000.</div><div>10000.</div><div>14000.</div><div>18000.</div><div>22000.</div><div>26000.</div><div>30000.</div><div>34000.</div><div>40000</div></div></div><div><div>Frequency (MHz)</div></div></div></div><div><div><div><div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div></div><div><div><div><div>11510.00</div><div>7673.33</div><div>7673.33</div><div>1066.00</div><div>1066.00</div></div><div><div><div><div>60.97</div><div>51.22</div><div>39.95</div><div>42.78</div><div>38.87</div></div><div><div><div><div>74.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>54.00</div></div><div><div><div><div>-13.03</div><div>-22.78</div><div>-14.05</div><div>-31.22</div><div>-15.13</div></div><div><div><div><div>46.01</div><div>41.59</div><div>30.32</div><div>51.89</div><div>47.98</div></div><div><div><div><div>14.96</div><div>9.63</div><div>9.63</div><div>-9.11</div><div>-9.11</div></div><div><div><div><div>Average</div><div>Peak</div><div>Peak</div><div>Average</div><div>Peak</div></div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div></div></div></div><div><div><div><div><div>Freq.</div><div>Emission</div><div>level</div><div>Limit</div><div>Margin</div><div>SA</div><div>Factor</div><div>Remark</div><div>ANT</div><div>Turn</div></div><div><div>MHz</div><div>dBuV/m</div><div>dBuV/m</div><div>dB</div><div>reading</div><div>dB</div><div></div><div>High</div><div>Table</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>cm</div><div>deg</div></div></div></div></div></div><div><div><div><div>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</div><div>Note 2: 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.</div><div>Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>			



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Polarization	Horizontal		Test Freq. (MHz)		5795																																																																																											
<div><p>Level (dBuV/m)</p></div> <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1066.00</td><td>39.40</td><td>54.00</td><td>-14.60</td><td>48.51</td><td>-9.11</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1066.00</td><td>43.27</td><td>74.00</td><td>-30.73</td><td>52.38</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>7726.66</td><td>37.16</td><td>54.00</td><td>-16.84</td><td>27.48</td><td>9.68</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>7726.66</td><td>50.60</td><td>74.00</td><td>-23.40</td><td>40.92</td><td>9.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>11590.00</td><td>49.43</td><td>54.00</td><td>-4.57</td><td>34.59</td><td>14.84</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>11590.00</td><td>59.46</td><td>74.00</td><td>-14.54</td><td>44.62</td><td>14.84</td><td>Peak</td><td>---</td><td>---</td></tr></table>								Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	1066.00	39.40	54.00	-14.60	48.51	-9.11	Average	---	---	2	1066.00	43.27	74.00	-30.73	52.38	-9.11	Peak	---	---	3	7726.66	37.16	54.00	-16.84	27.48	9.68	Average	---	---	4	7726.66	50.60	74.00	-23.40	40.92	9.68	Peak	---	---	5	11590.00	49.43	54.00	-4.57	34.59	14.84	Average	---	---	6	11590.00	59.46	74.00	-14.54	44.62	14.84	Peak	---	---
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Polarization	Vertical	Test Freq. (MHz)	5795																																																																																										
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3.6 Unwanted Emissions into Non-Restricted Frequency Bands

3.6.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

- ☐ The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.
- ☒ The peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

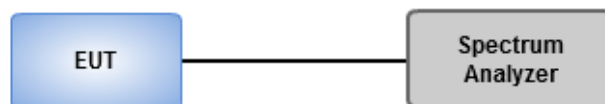
Reference Level Measurement

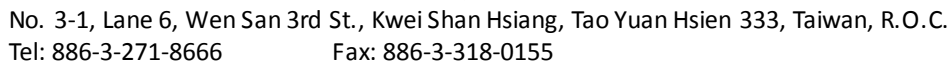
1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peakmarker function to determine the maximum amplitude level.

Unwanted Emissions Level Measurement

1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peakmarker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

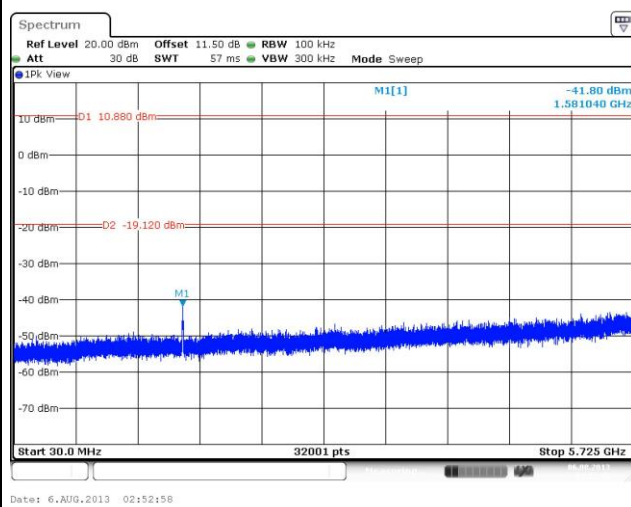
3.6.3 Test Setup



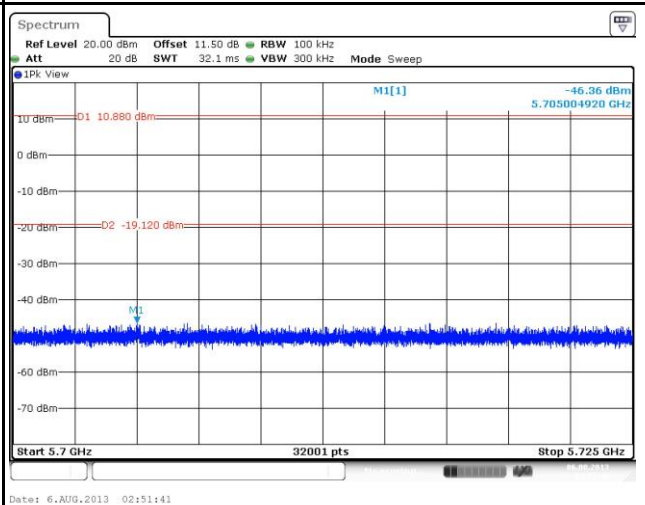
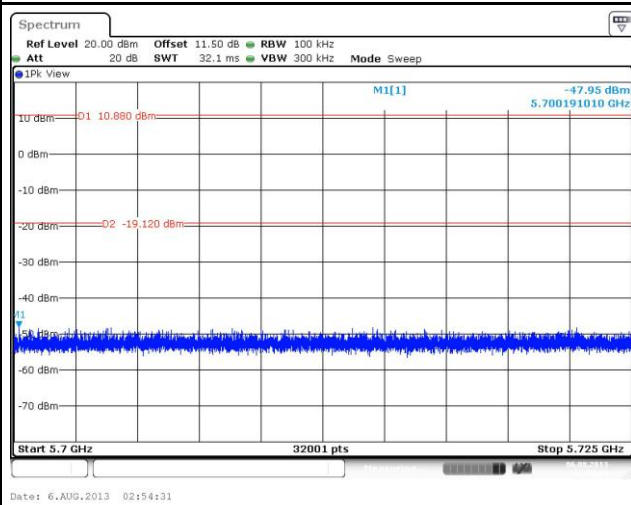
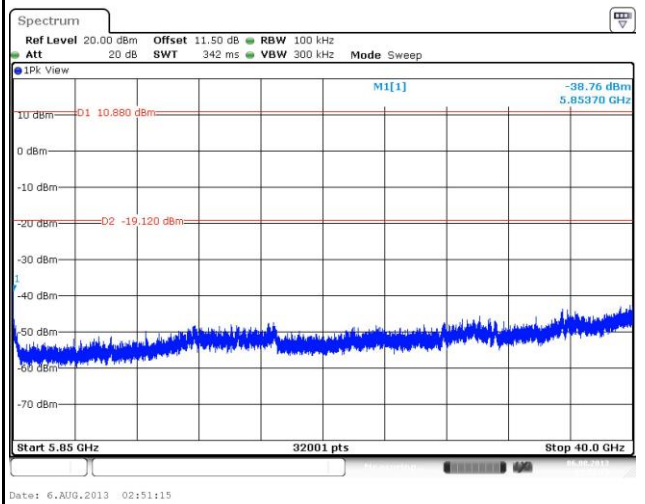
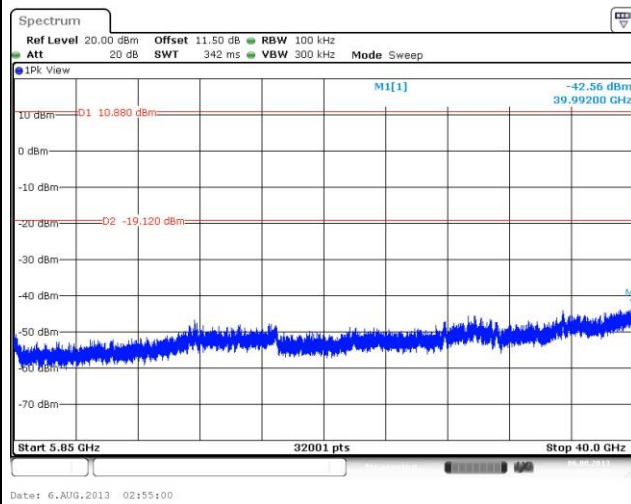
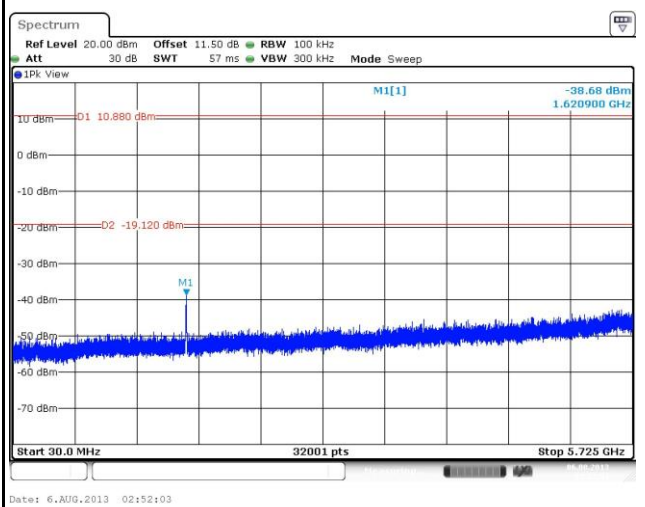




Tx 5785MHz / 30MHz~40GHz (down 30dBc)

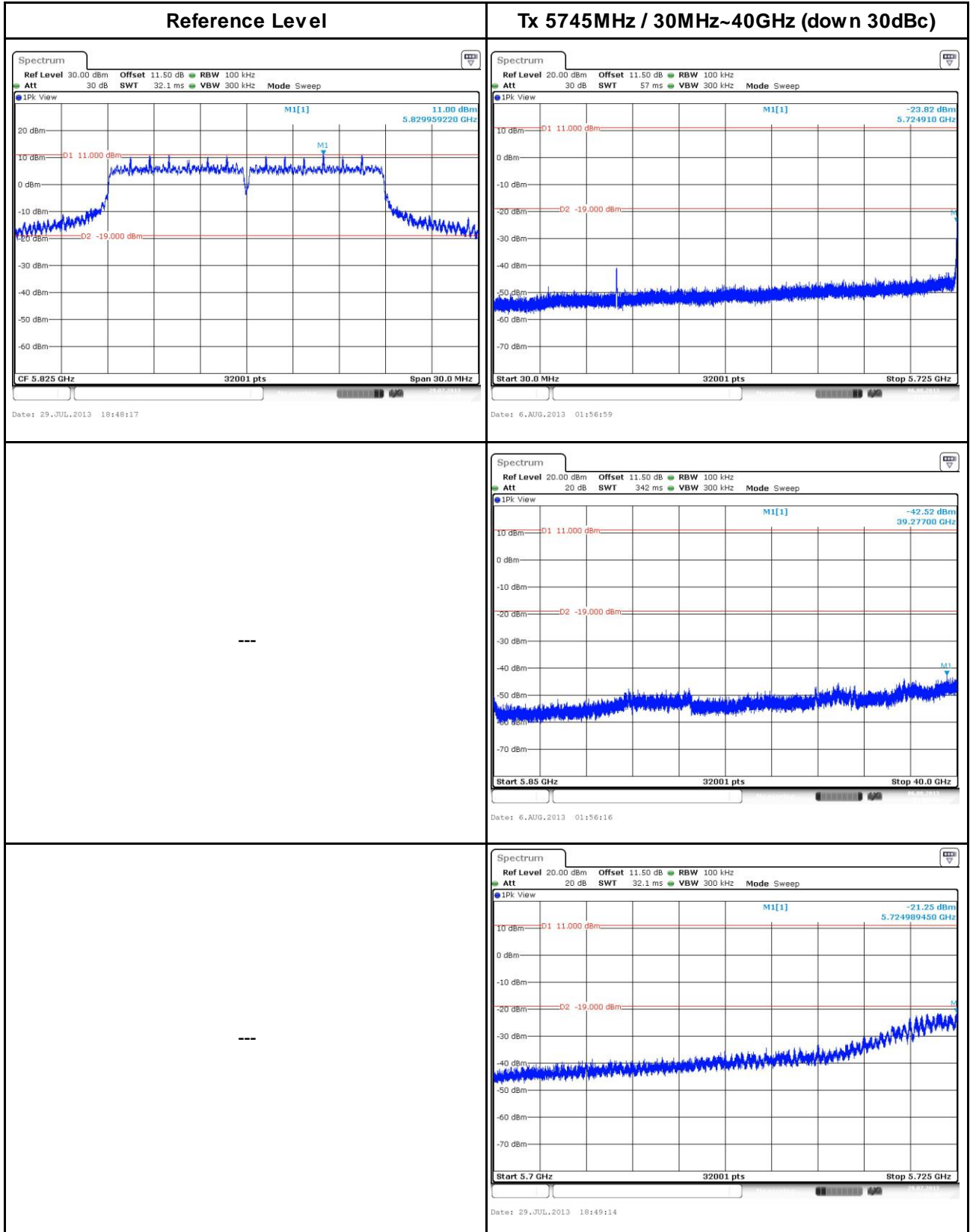


Tx 5825MHz / 30MHz~40GHz (down 30dBc)



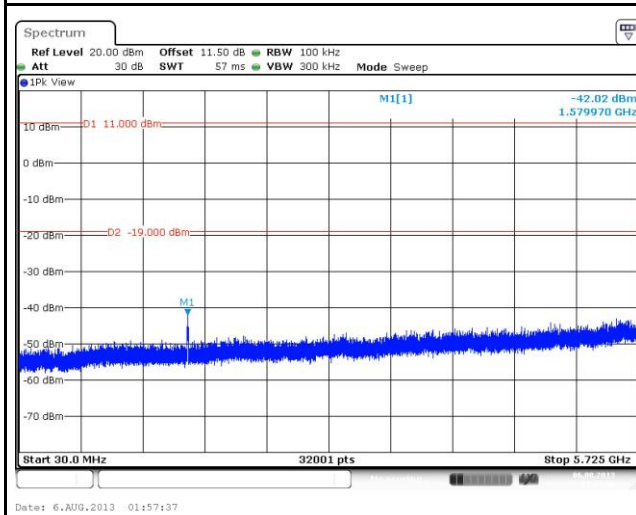


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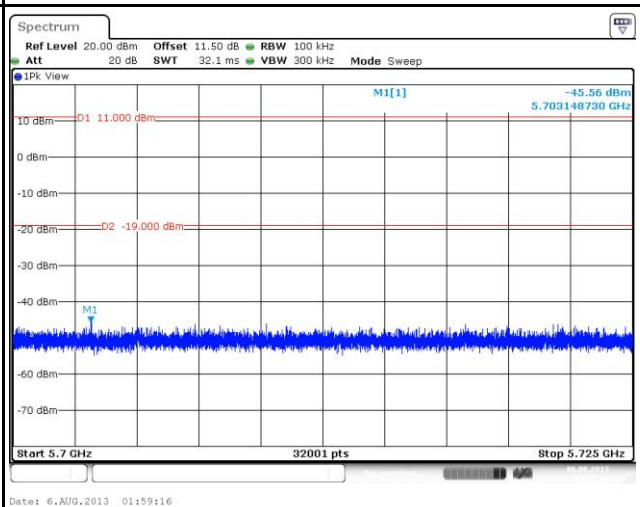
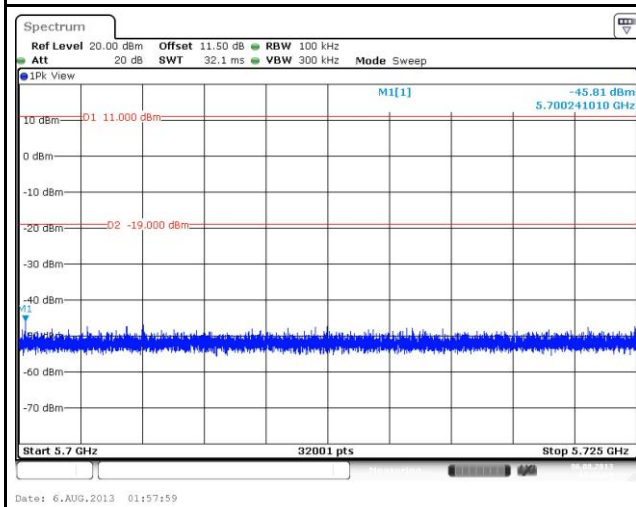
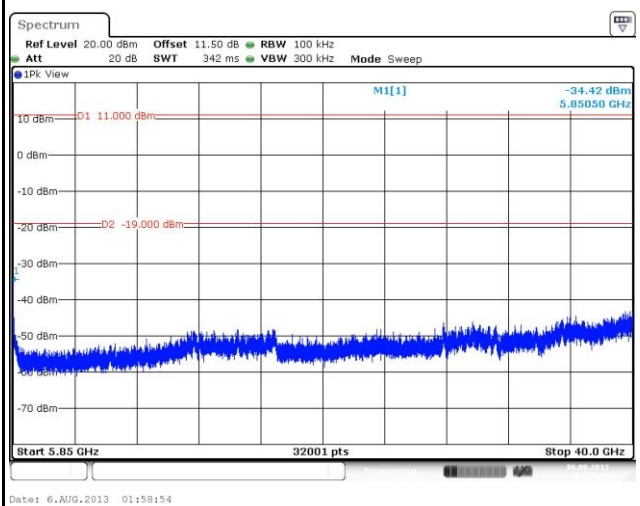
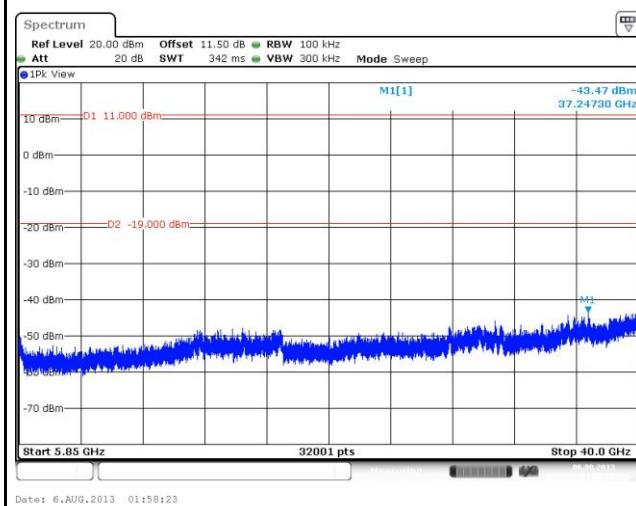
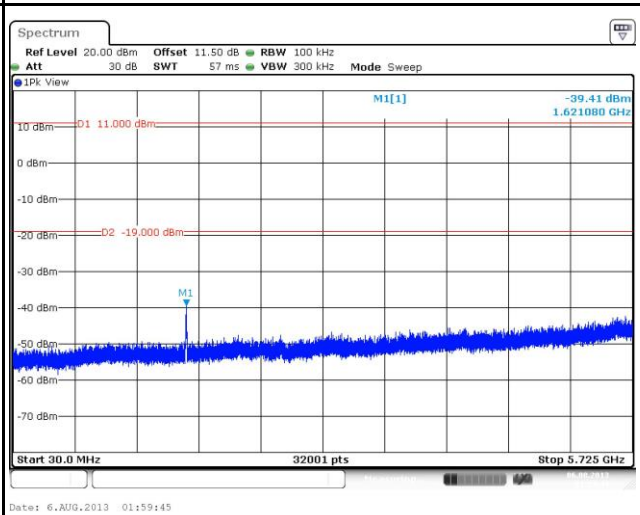




Tx 5785MHz / 30MHz~40GHz (down 30dBc)

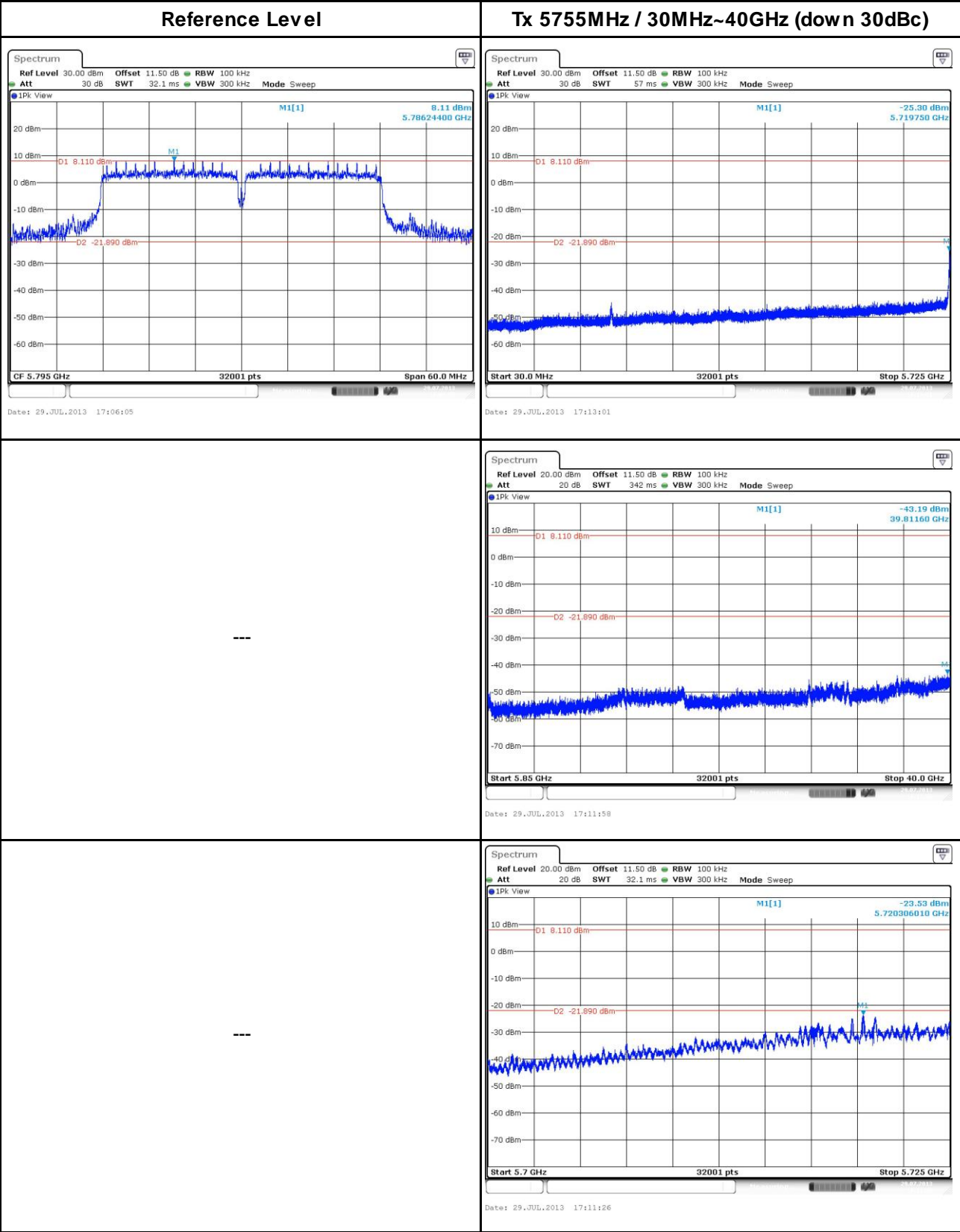


Tx 5825MHz / 30MHz~40GHz (down 30dBc)



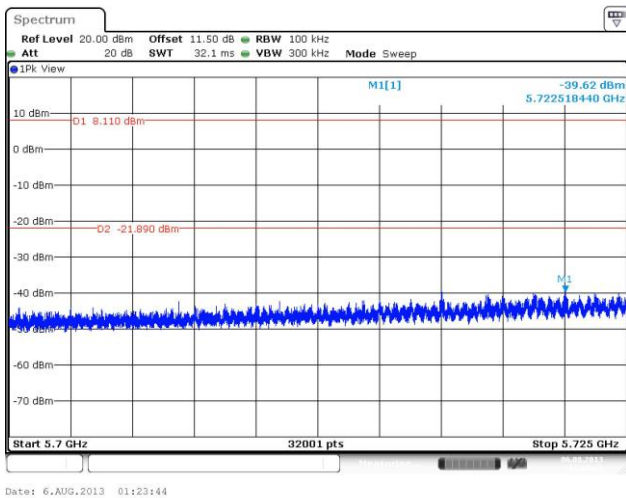
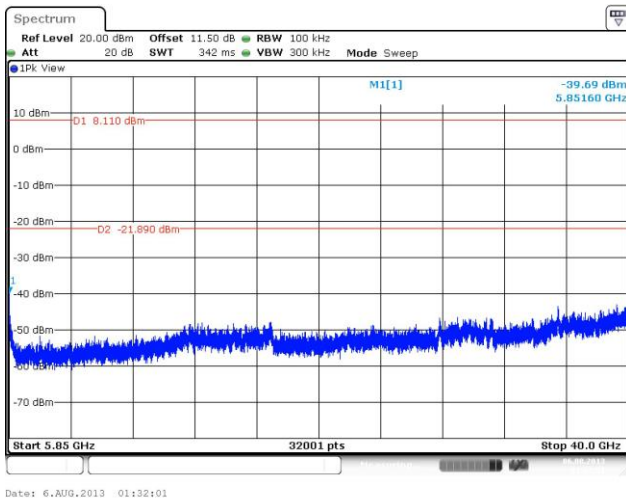
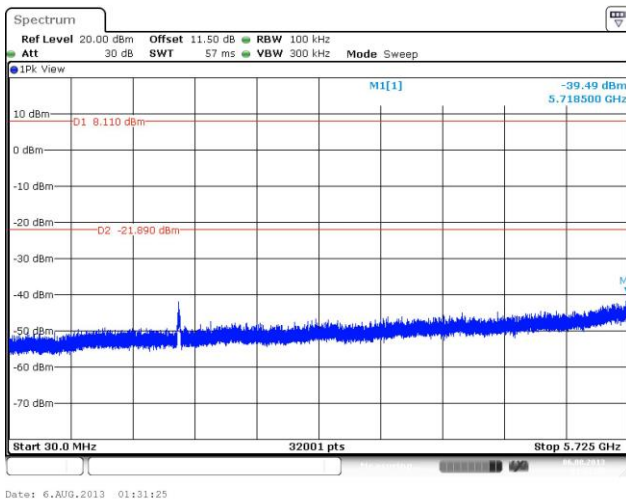


802.11n HT40





Tx 5795MHz / 30MHz~40GHz (down 30dBc)



==END==