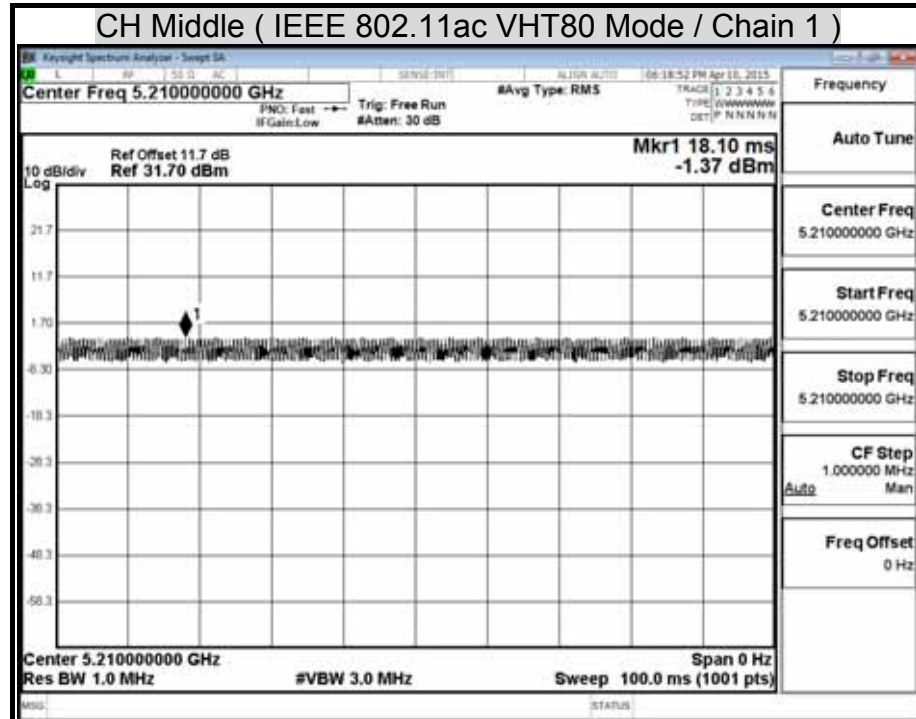
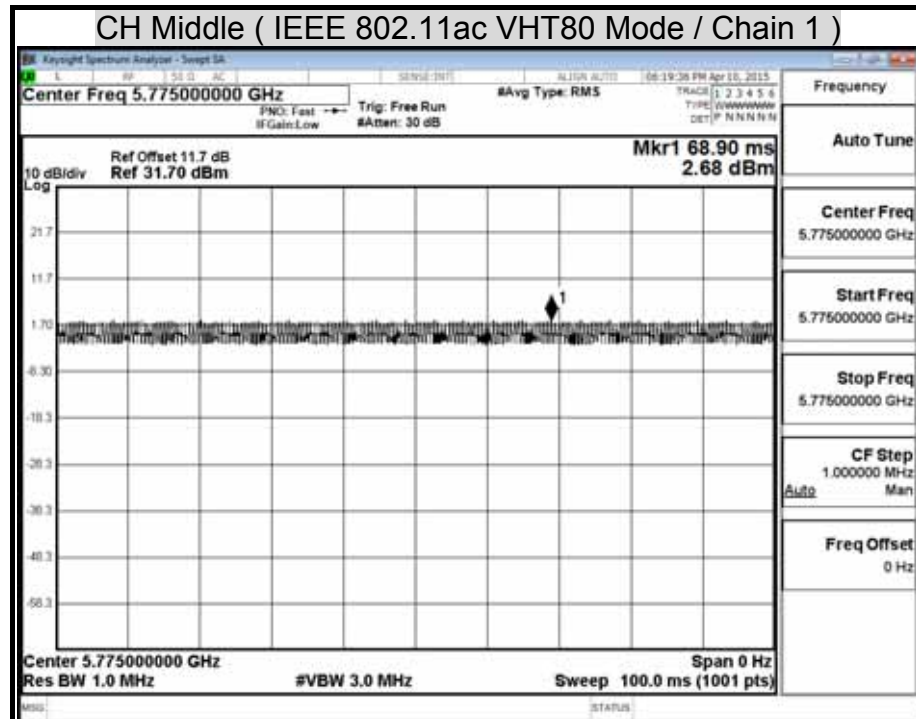




Test Mode: IEEE 802.11ac VHT 80 MHz mode / 5150 ~ 5250MHz



Test Mode: IEEE 802.11ac VHT 80 MHz mode / 5725 ~ 5850MHz





7.6 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.407 (b): Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

The provisions of § 15.205 apply to intentional radiators operating under this section.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	JAN. 23, 2016

Remark: Each piece of equipment is scheduled for calibration once a year

TEST SETUP





TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation of measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1MHz. The video bandwidth is set to 1MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

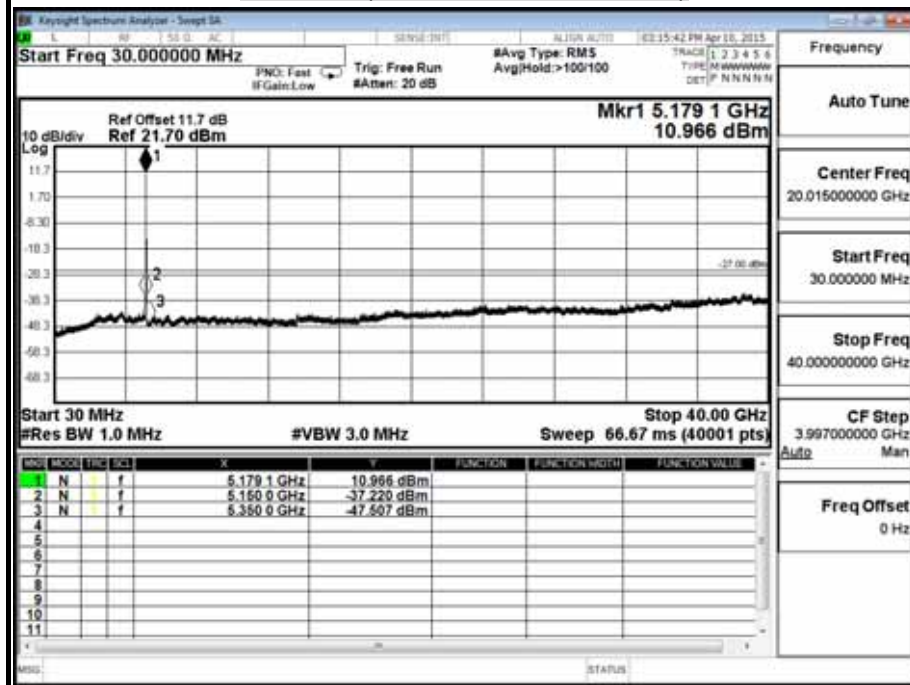


TEST RESULTS

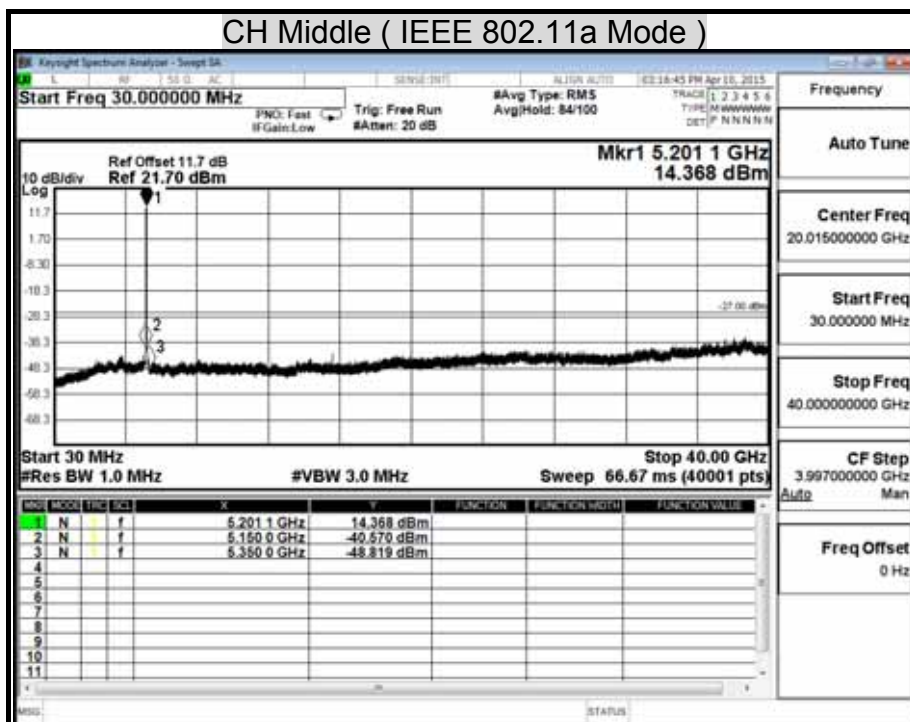
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

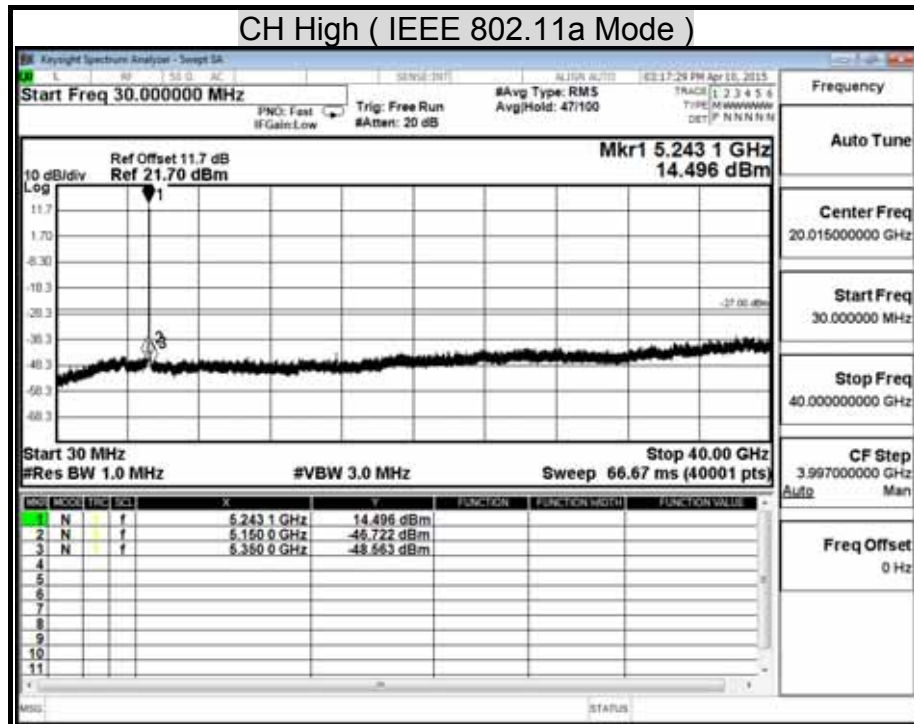
Test Mode: IEEE 802.11a mode / 5150 ~ 5250MHz

CH Low (IEEE 802.11a Mode)



CH Middle (IEEE 802.11a Mode)

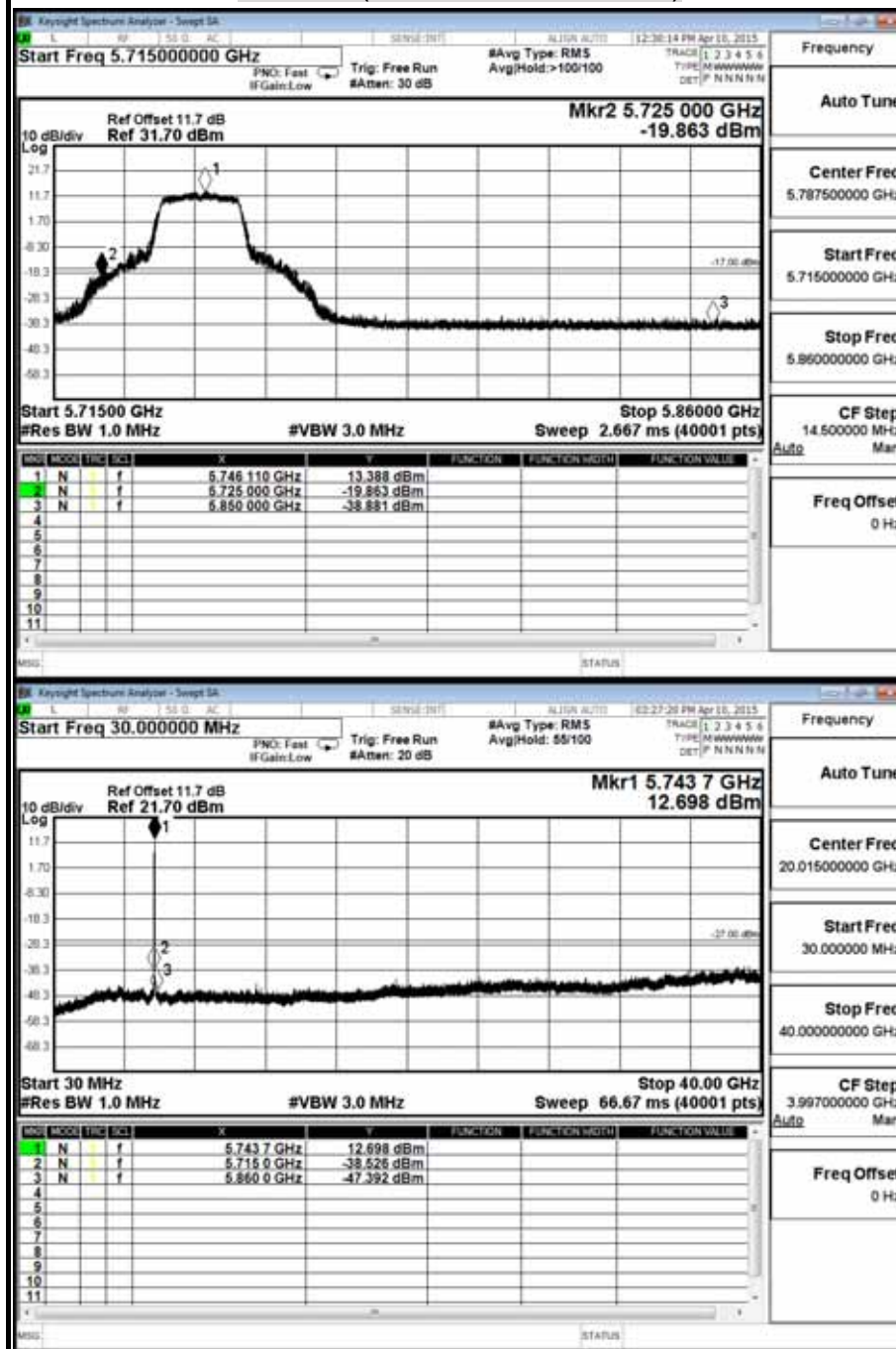


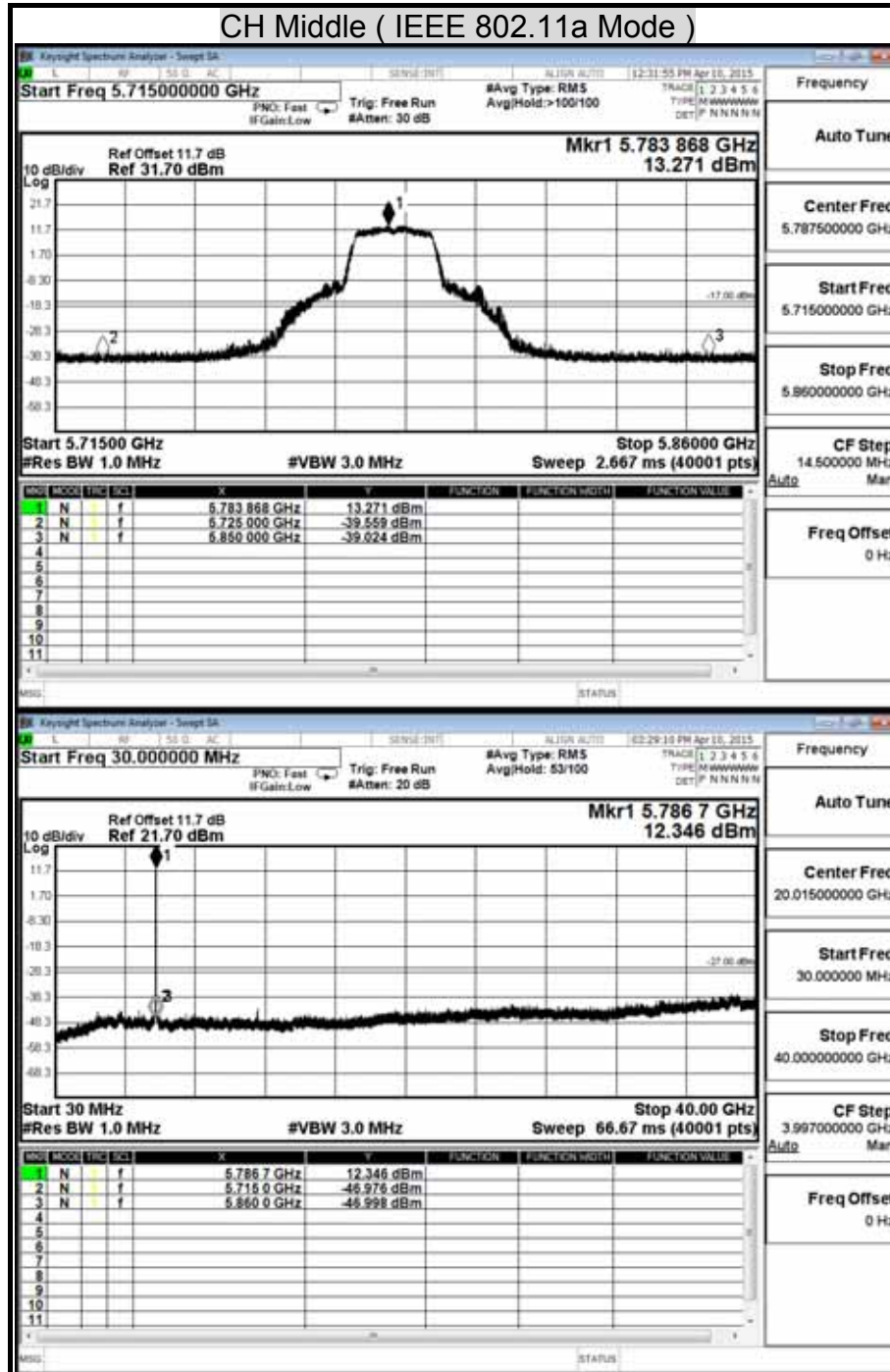


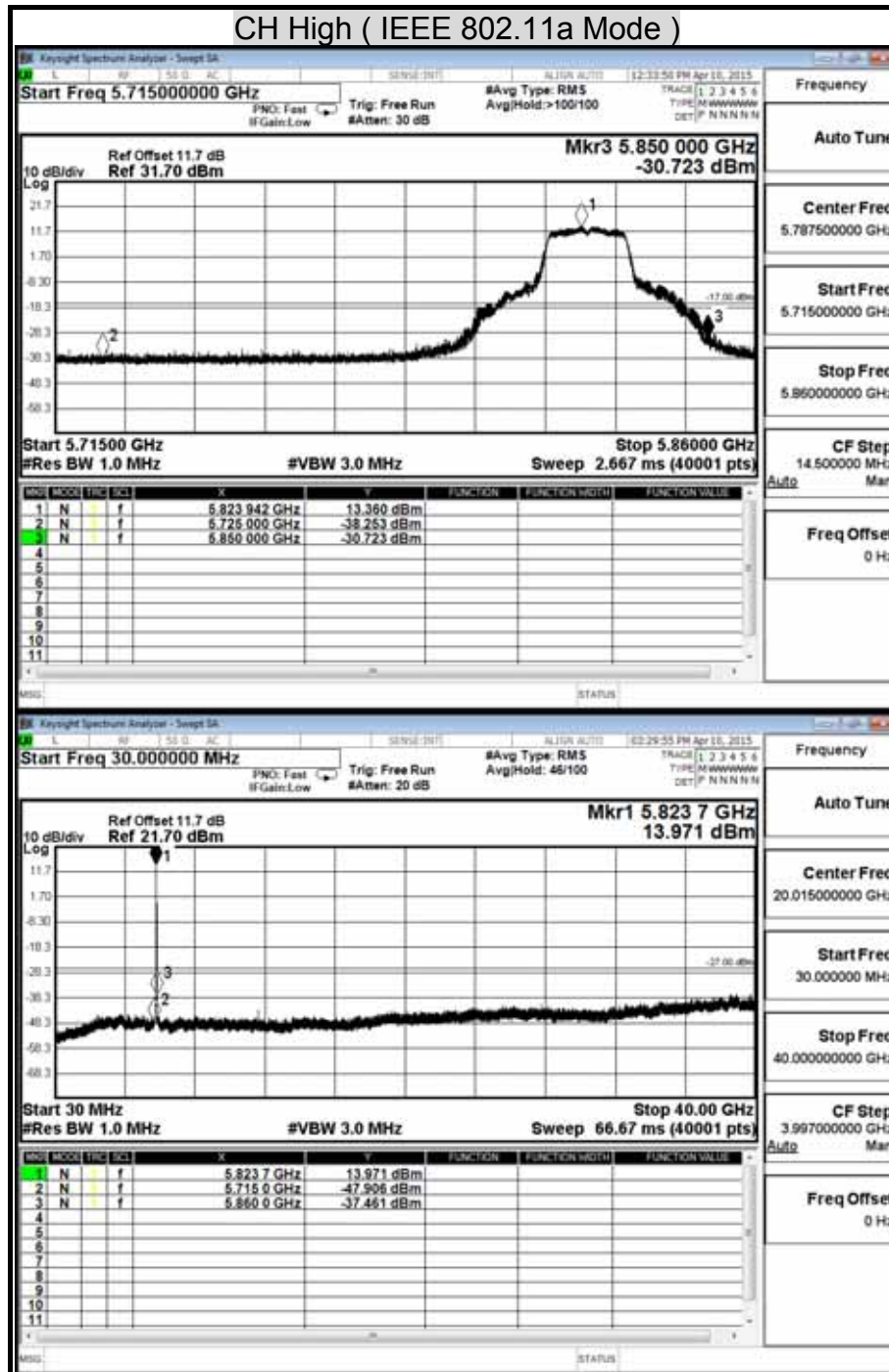


Test Mode: IEEE 802.11a mode / 5725 ~ 5850MHz

CH Low (IEEE 802.11a Mode)



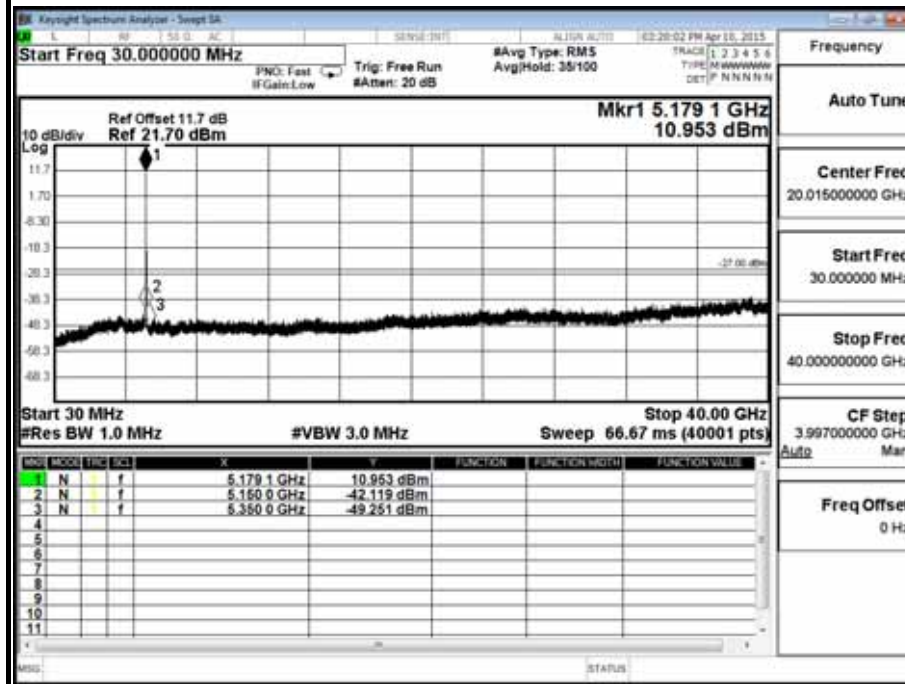




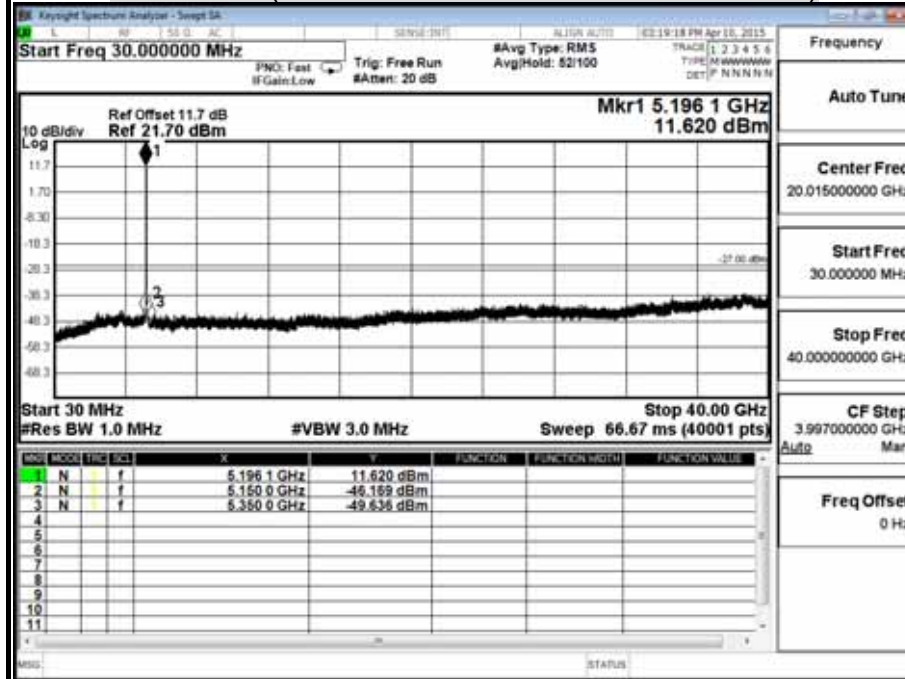


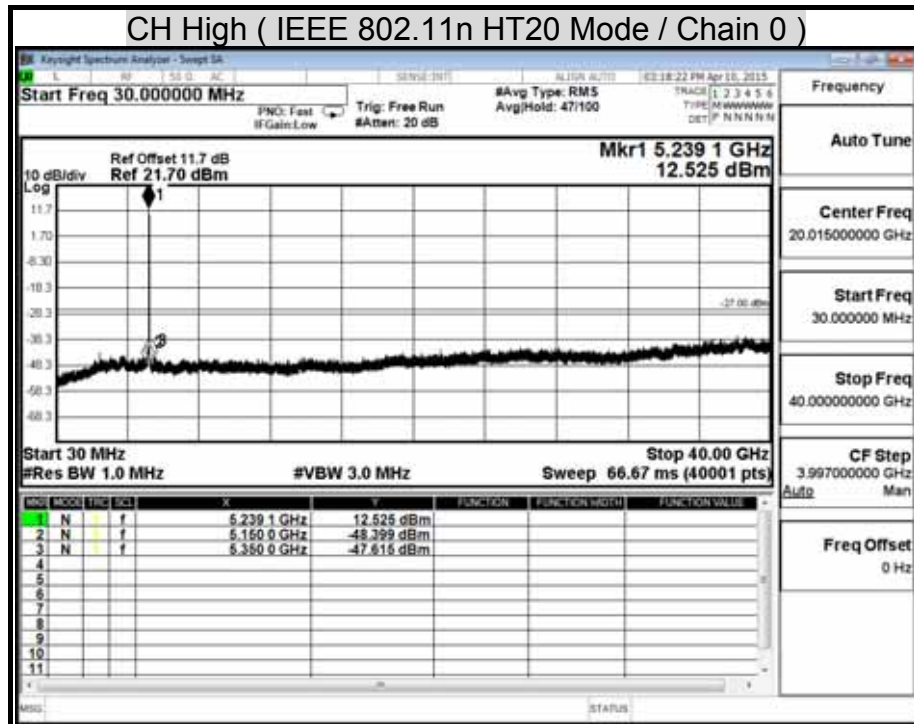
Test Mode: IEEE 802.11n HT 20 MHz mode / 5150 ~ 5250MHz

CH Low (IEEE 802.11n HT20 Mode / Chain 0)



CH Middle (IEEE 802.11n HT20 Mode / Chain 0)

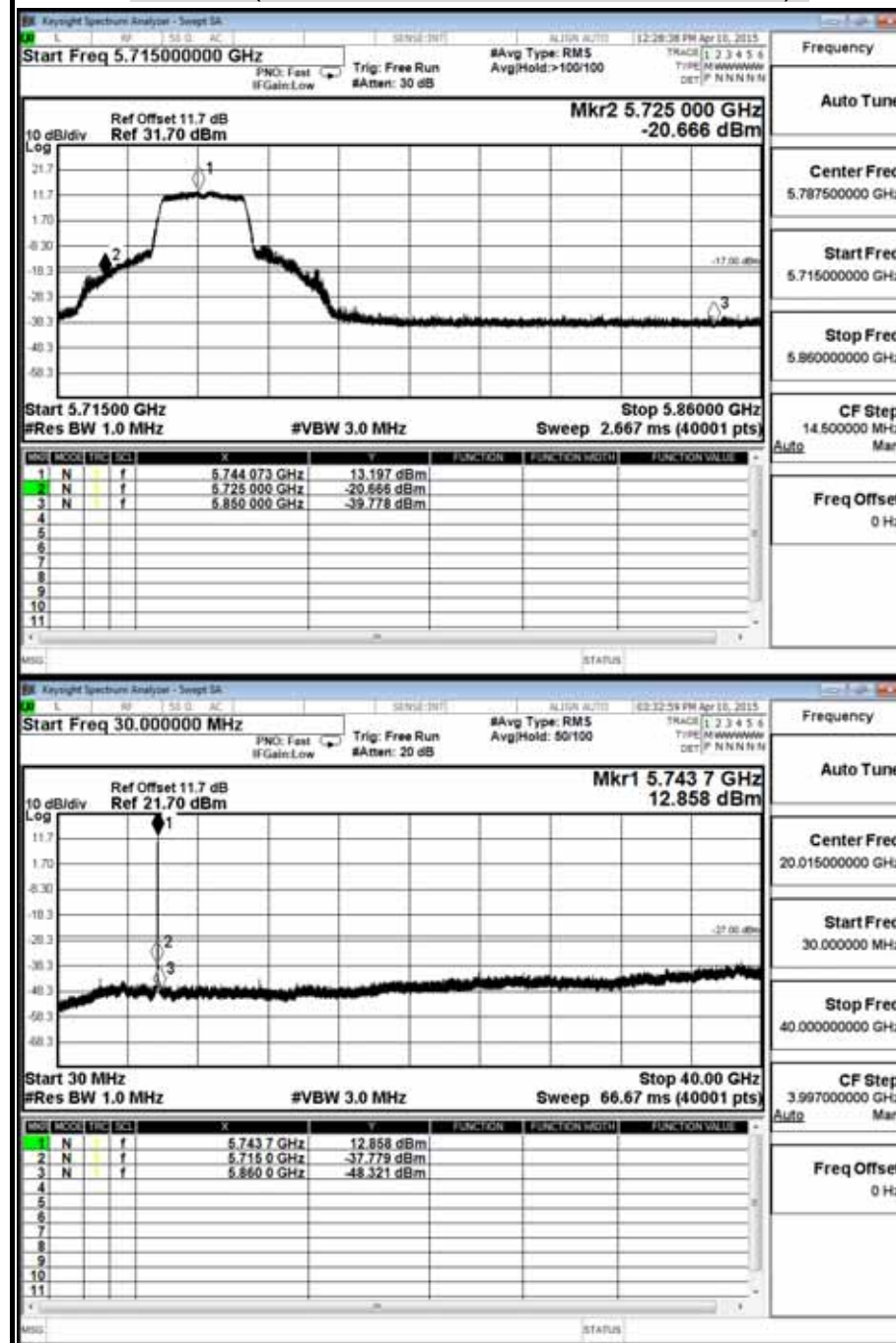


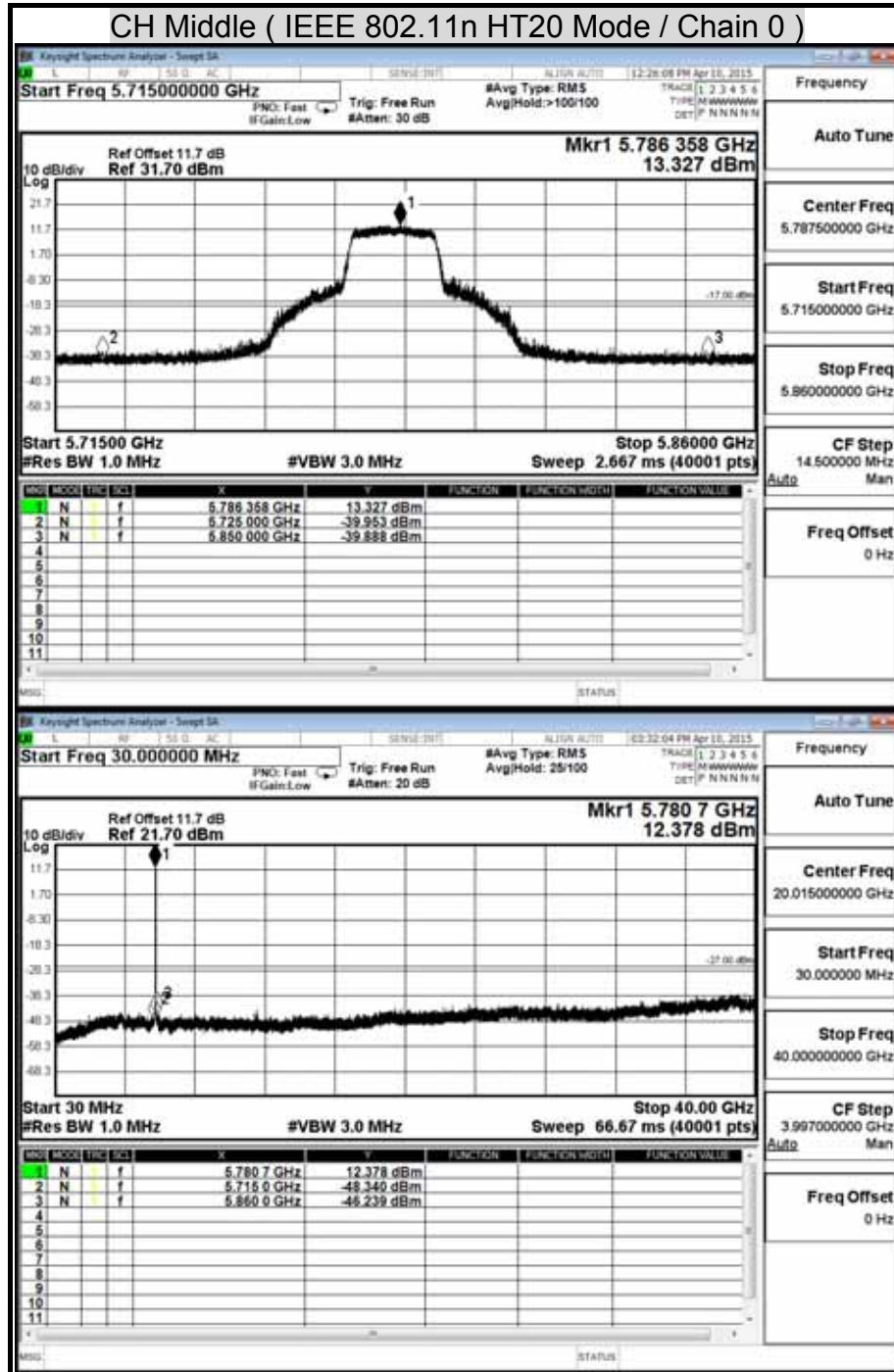


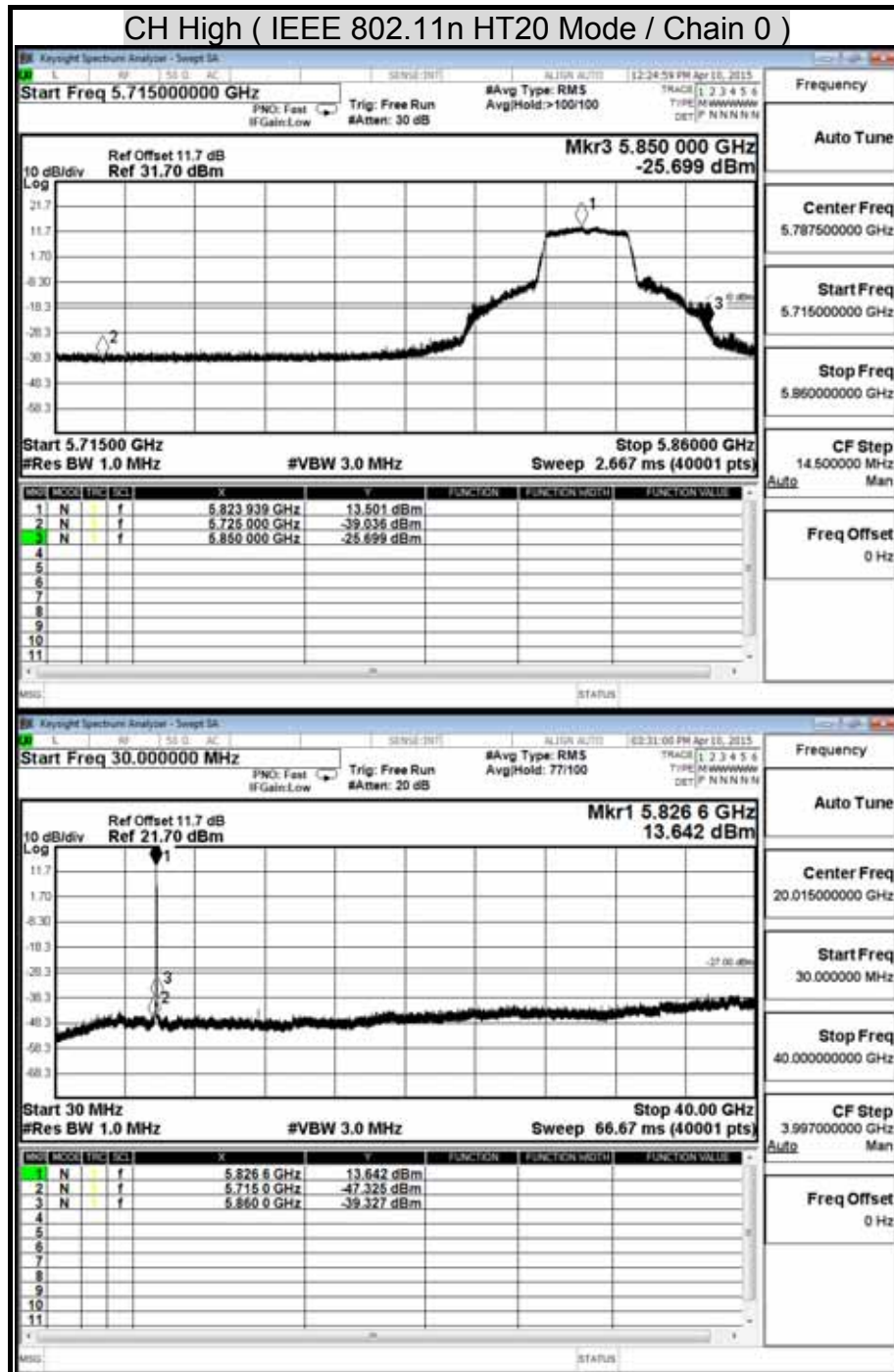


Test Mode: IEEE 802.11n HT 20 MHz mode / 5725 ~ 5850MHz

CH Low (IEEE 802.11n HT20 Mode / Chain 0)



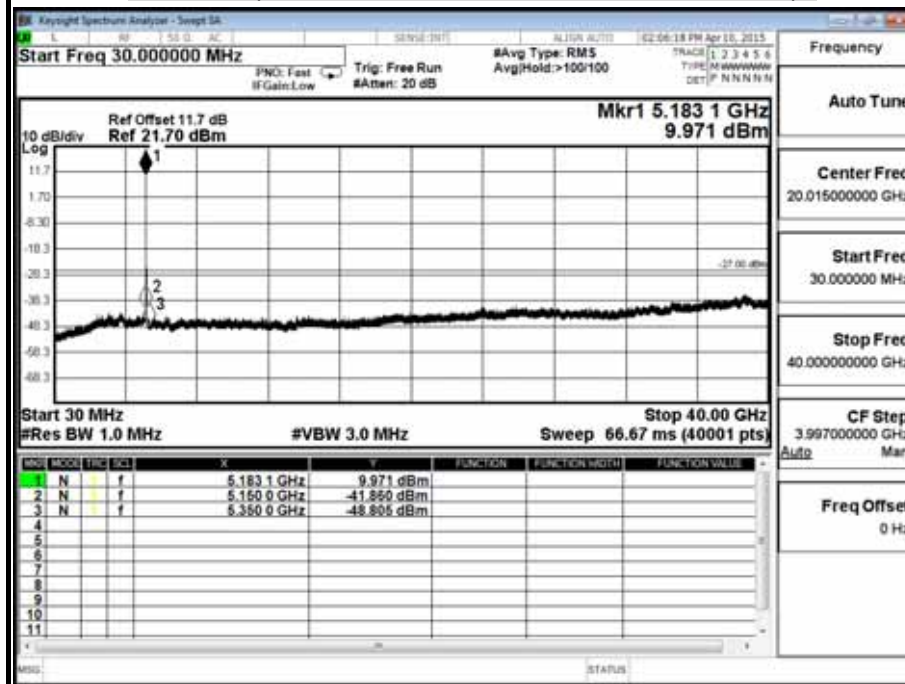




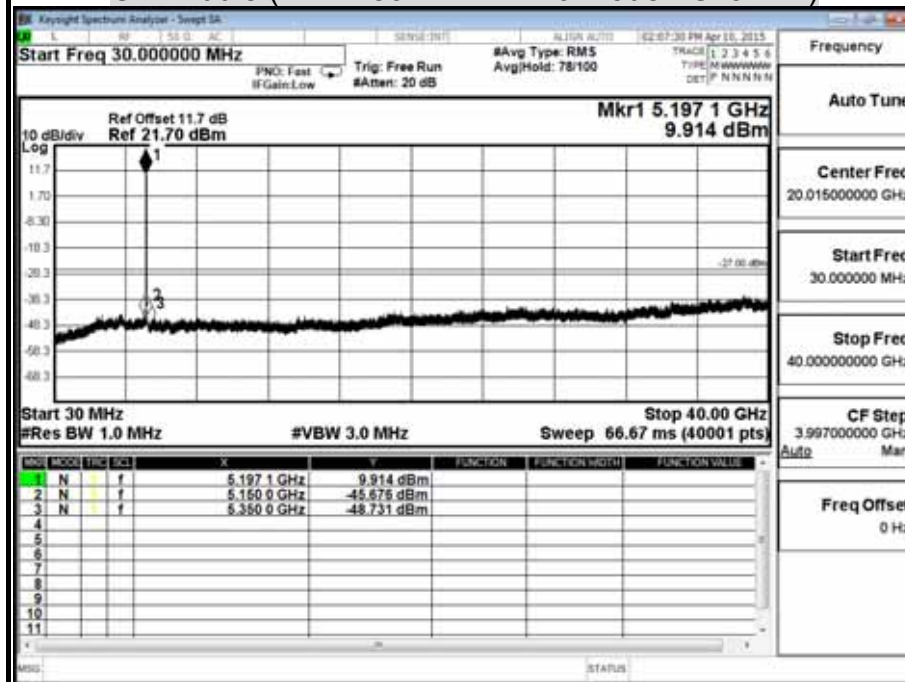


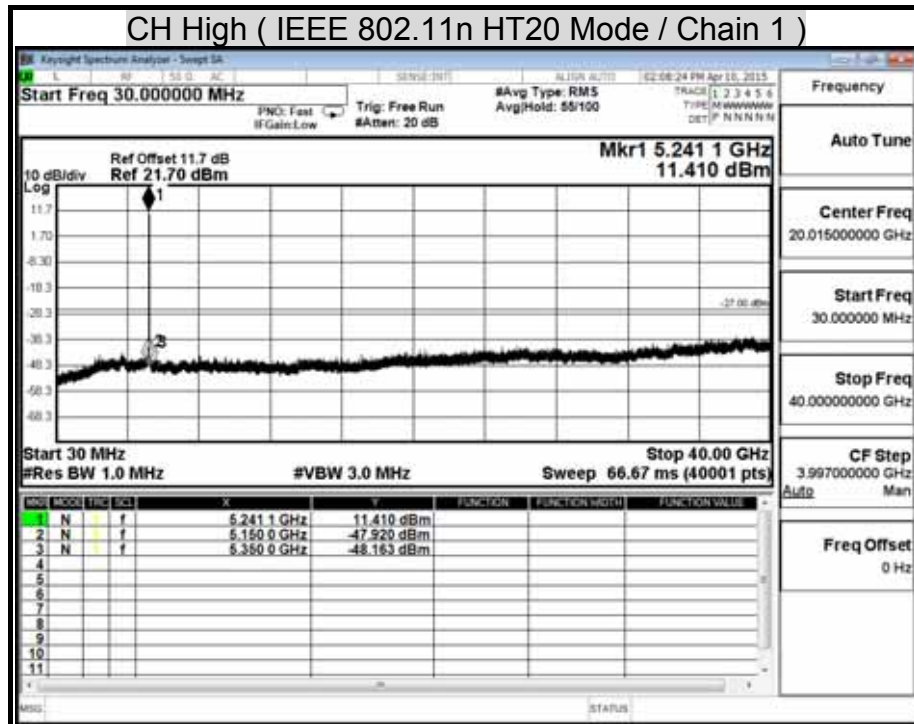
Test Mode: IEEE 802.11n HT 20 MHz mode / 5150 ~ 5250MHz

CH Low (IEEE 802.11n HT20 Mode / Chain 1)



CH Middle (IEEE 802.11n HT20 Mode / Chain 1)

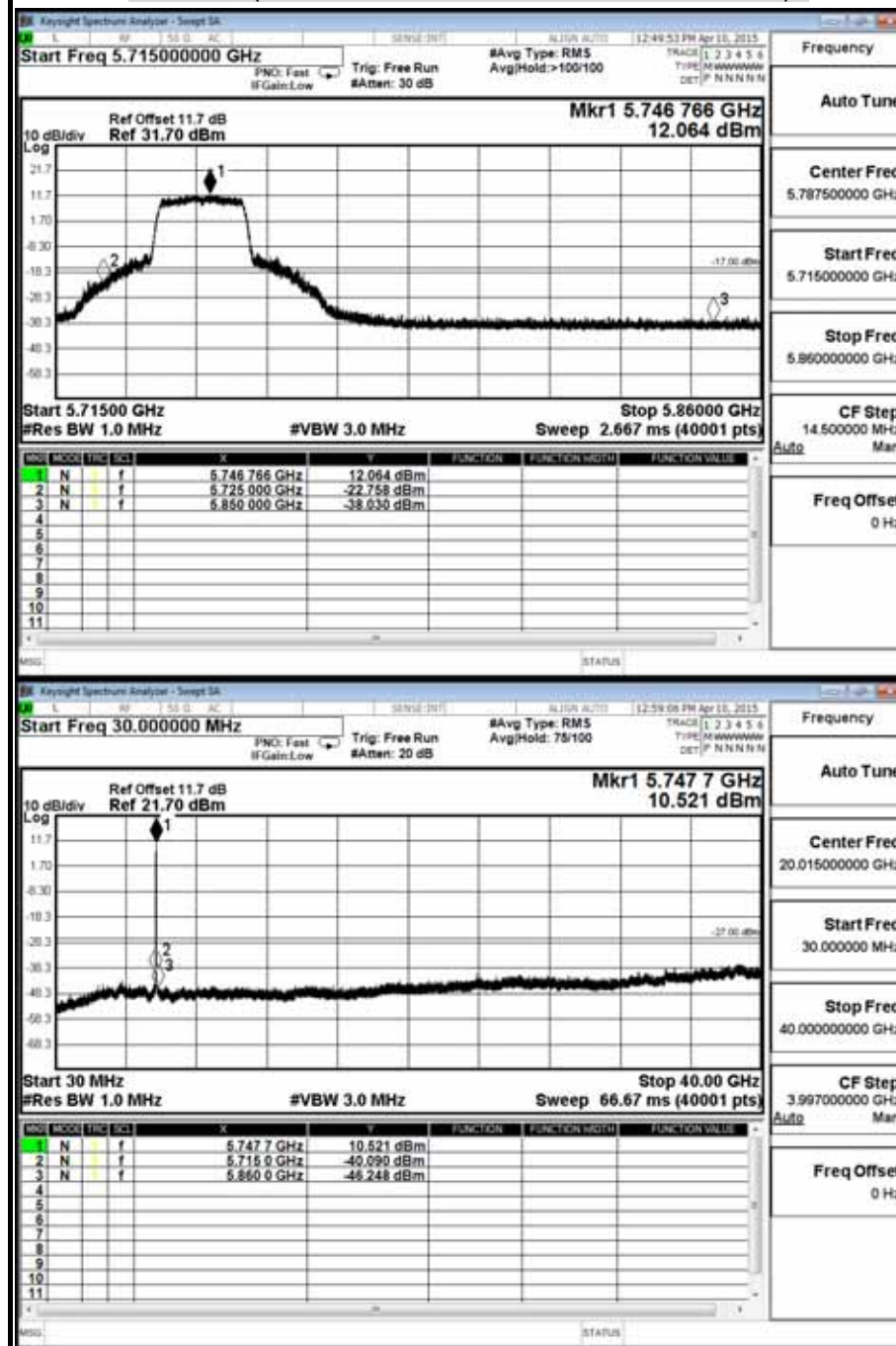


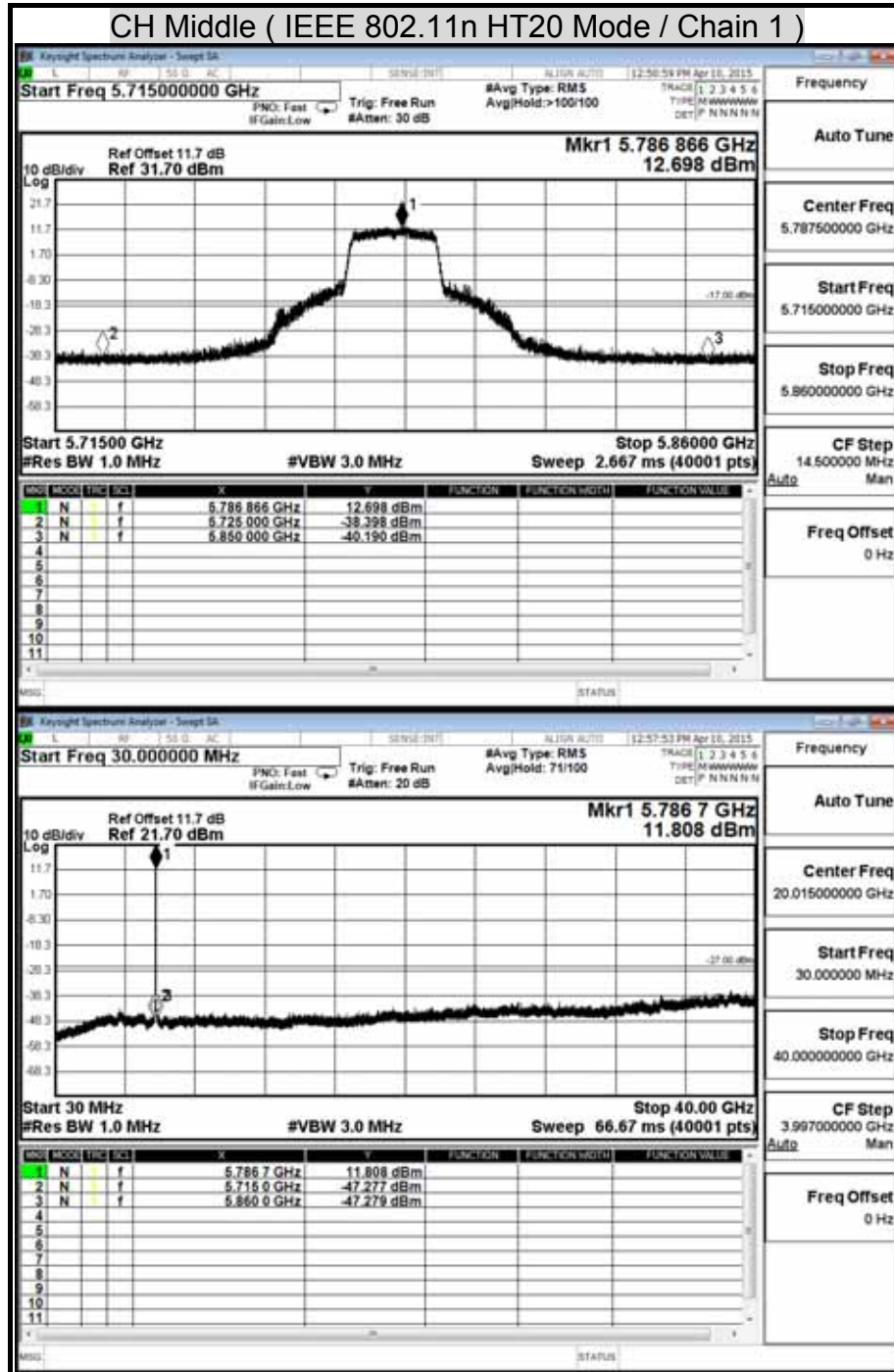


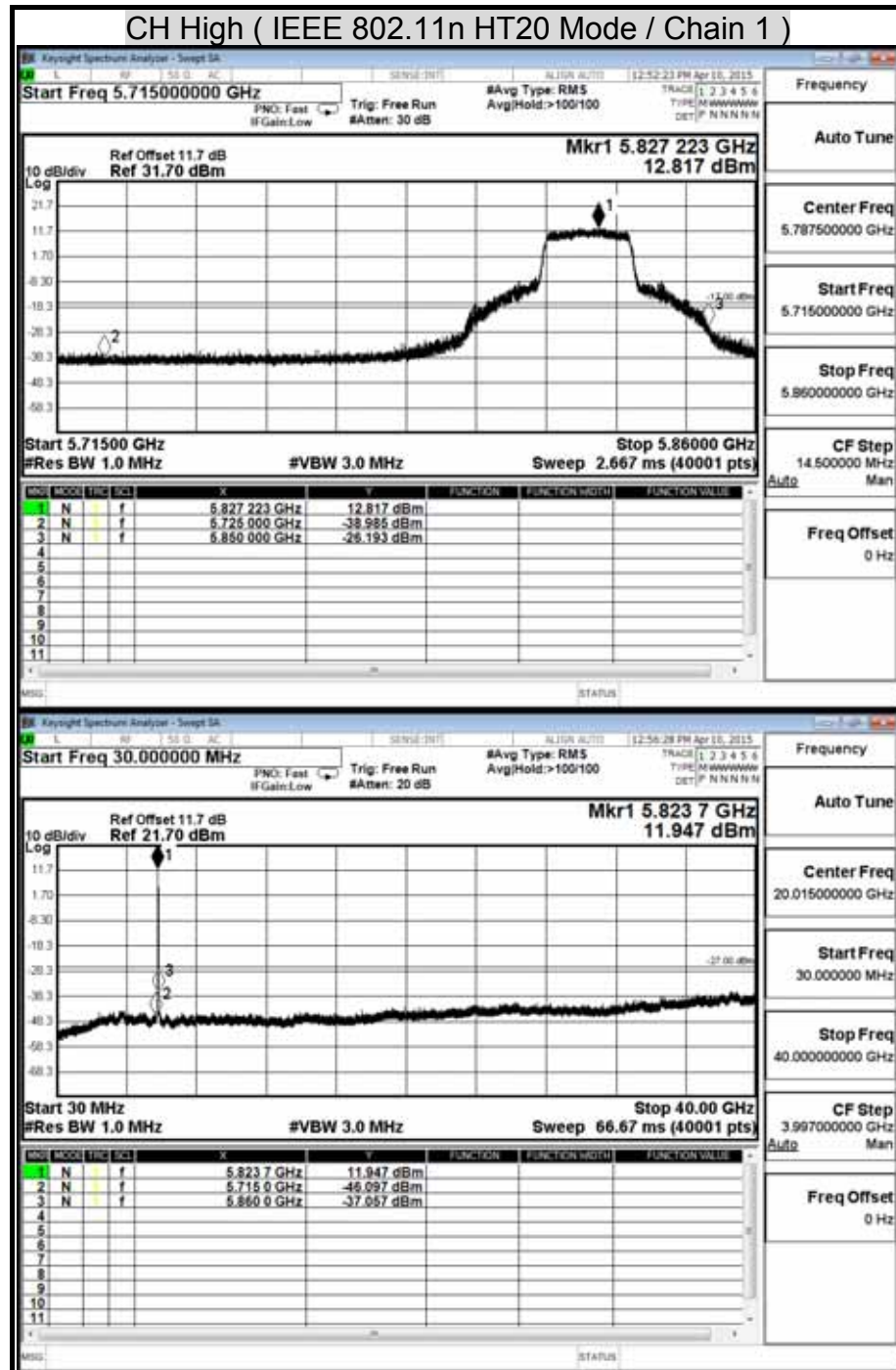


Test Mode: IEEE 802.11n HT 20 MHz mode / 5725 ~ 5850MHz

CH Low (IEEE 802.11n HT20 Mode / Chain 1)



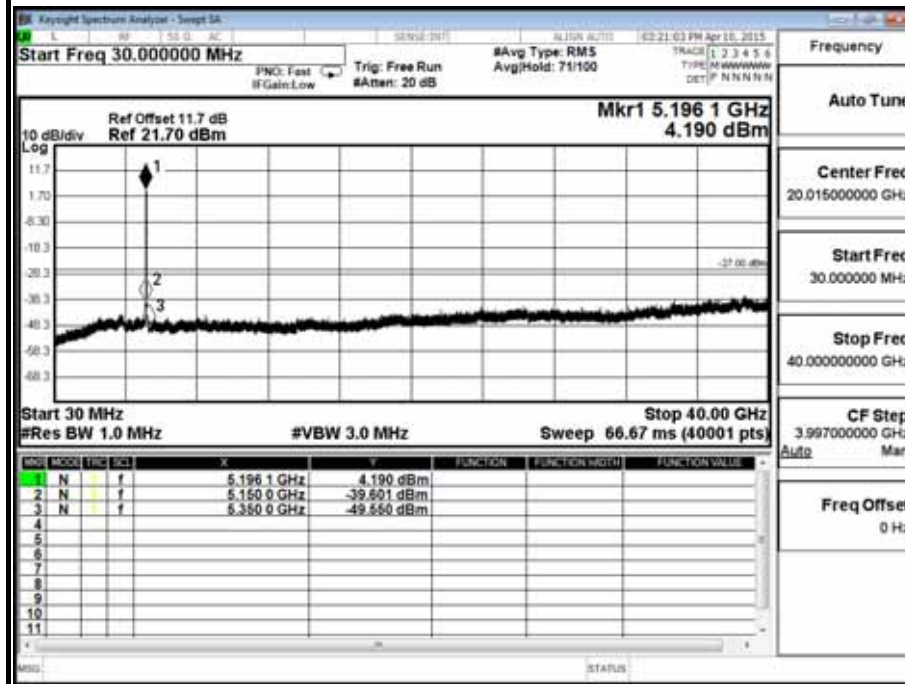




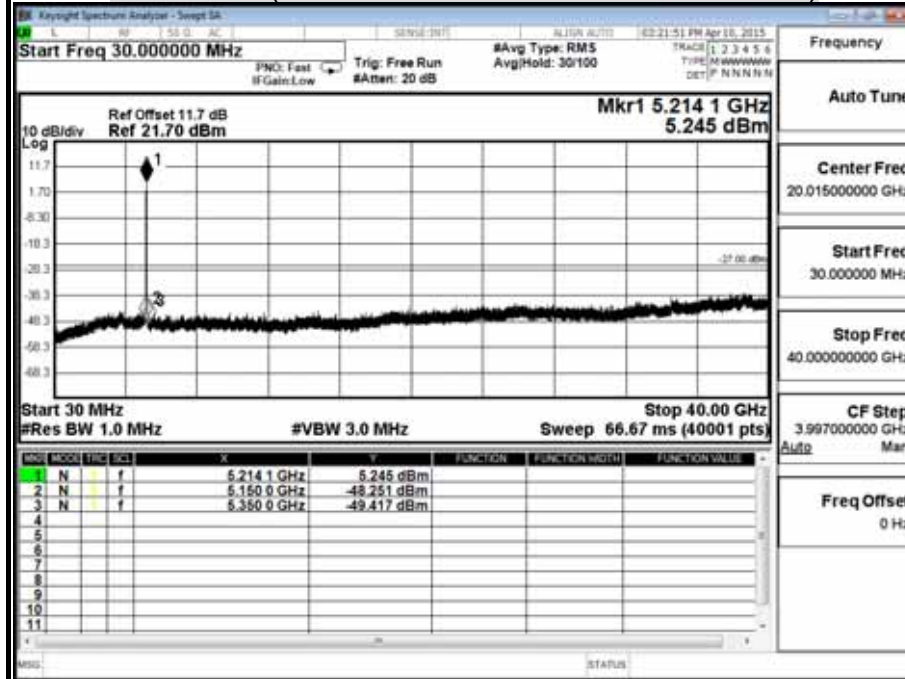


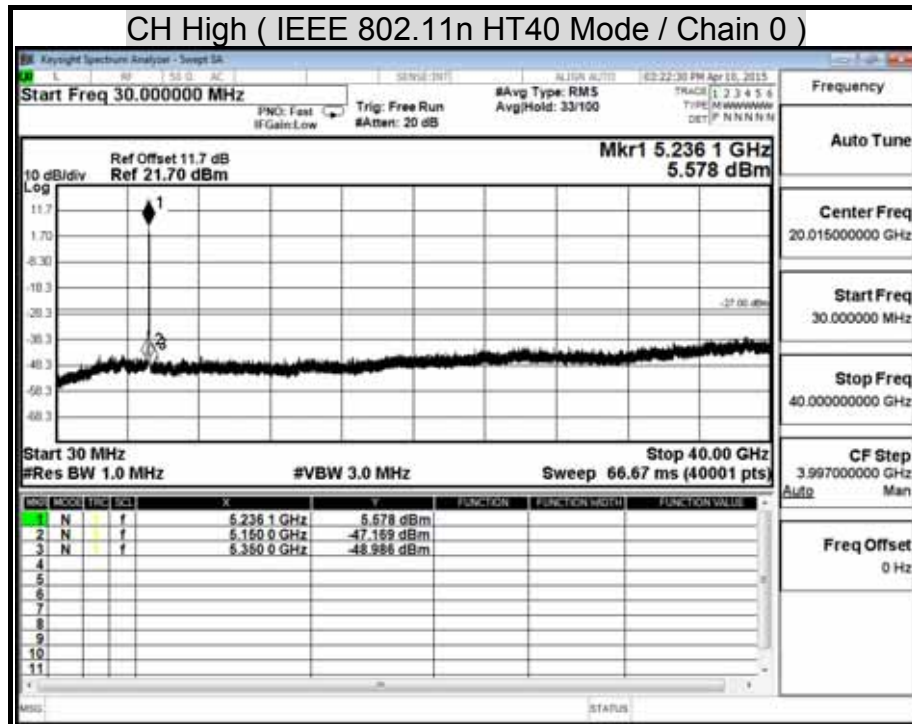
Test Mode: IEEE 802.11n HT 40 MHz mode / 5150 ~ 5250MHz

CH Low (IEEE 802.11n HT40 Mode / Chain 0)



CH Middle (IEEE 802.11n HT40 Mode / Chain 0)

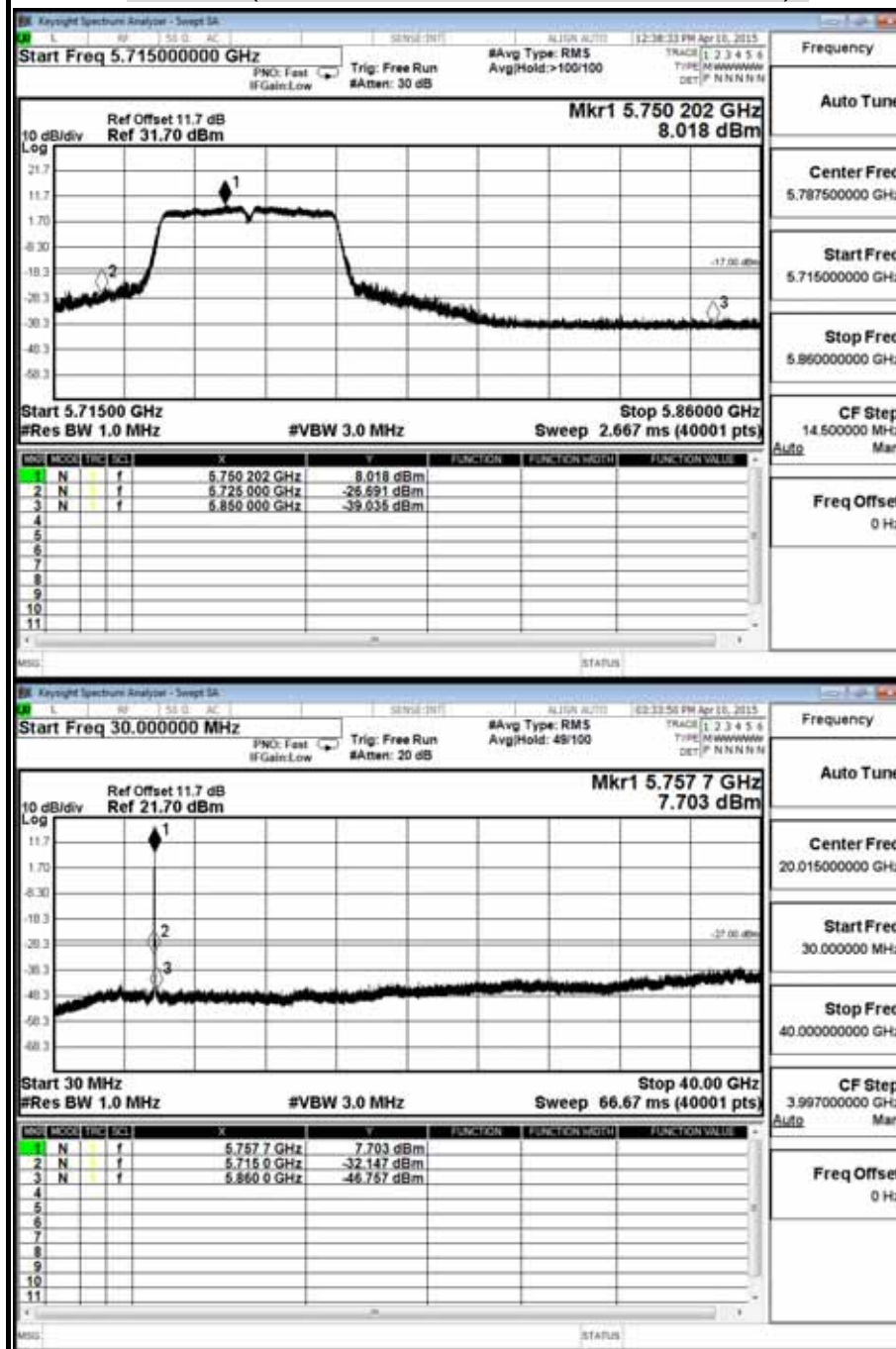


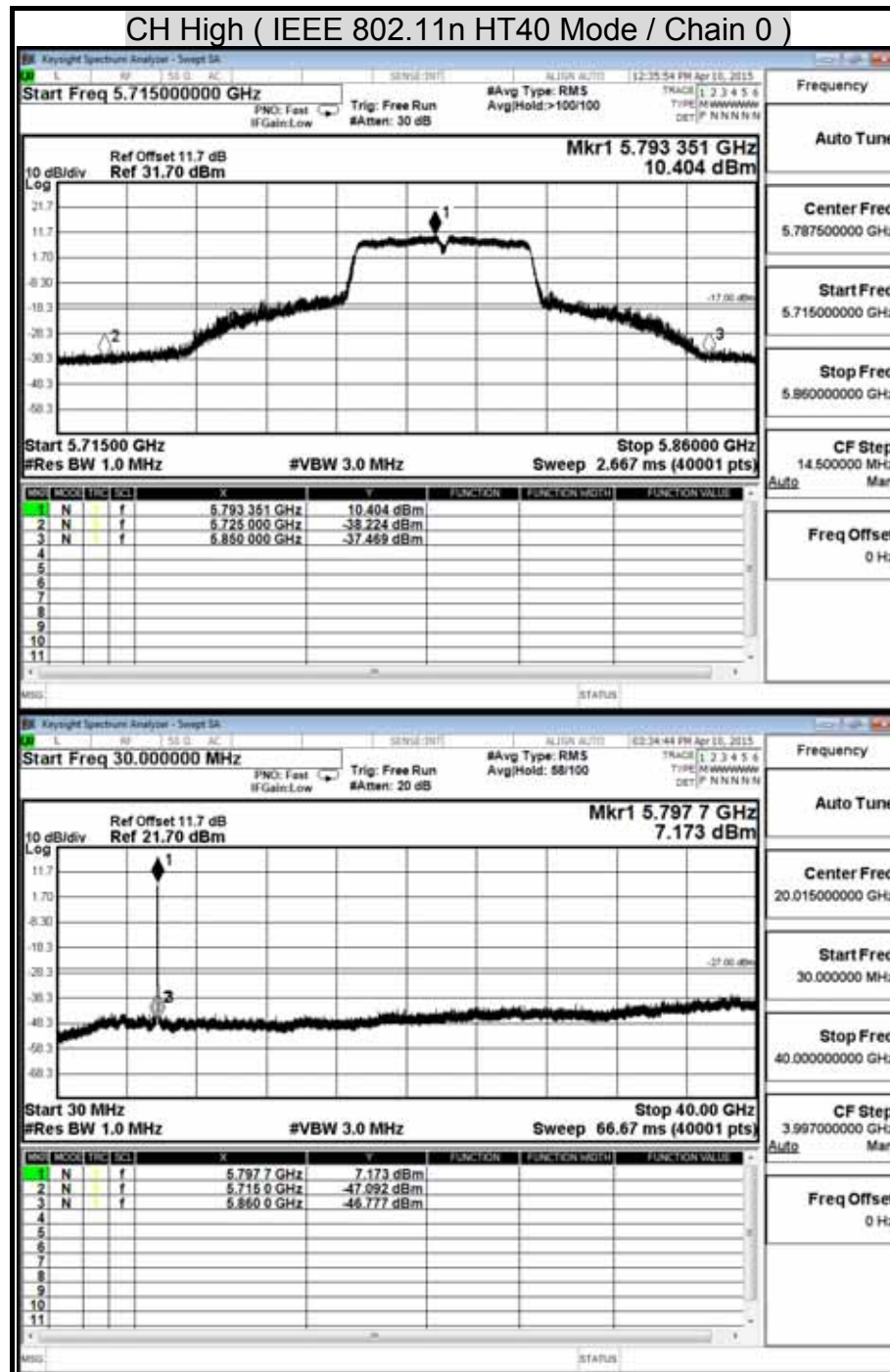




Test Mode: IEEE 802.11n HT 40 MHz mode / 5725 ~ 5850 MHz

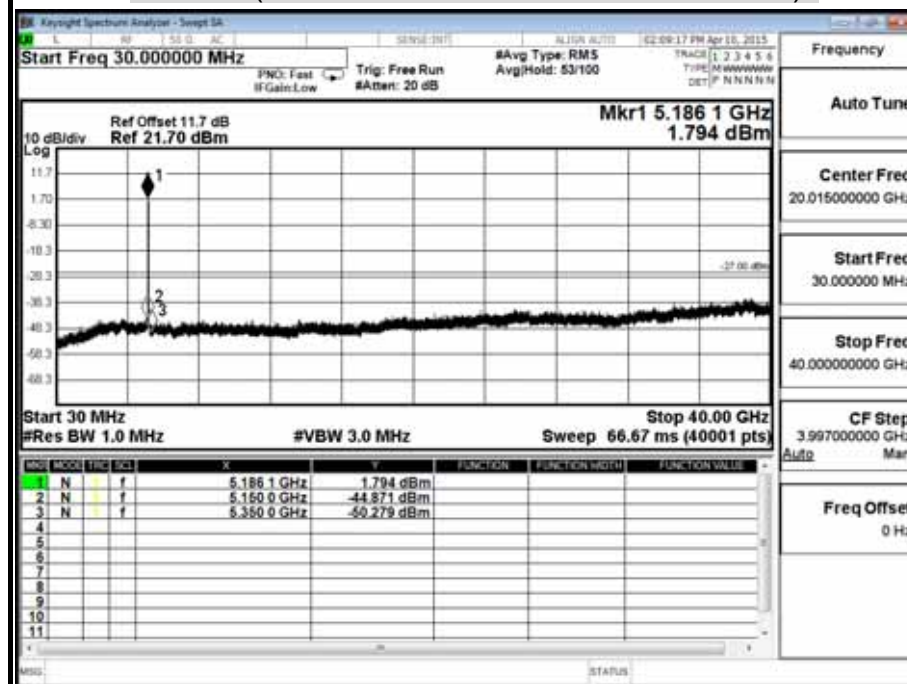
CH Low (IEEE 802.11n HT40 Mode / Chain 0)



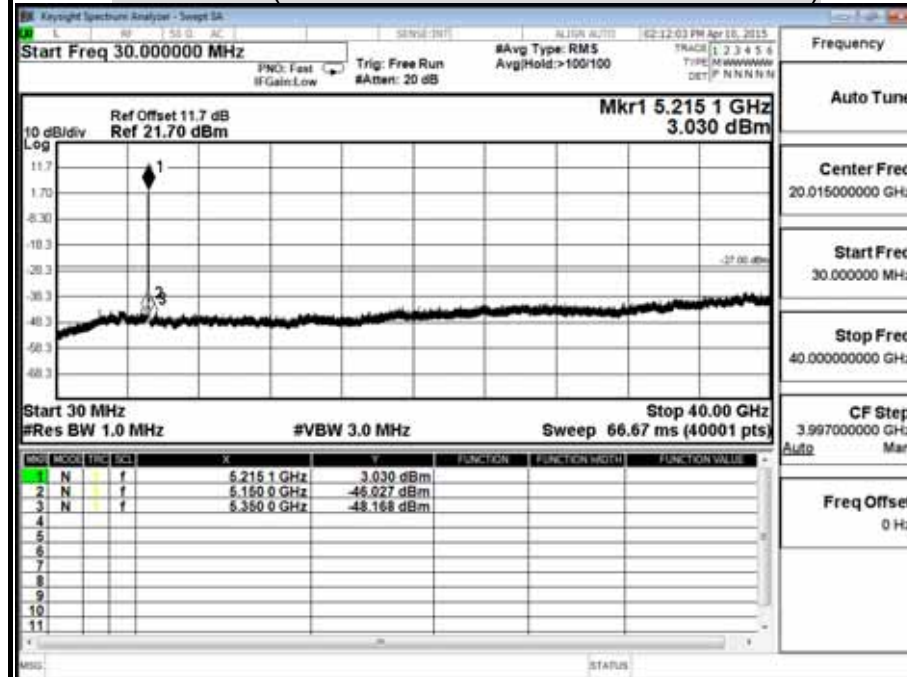


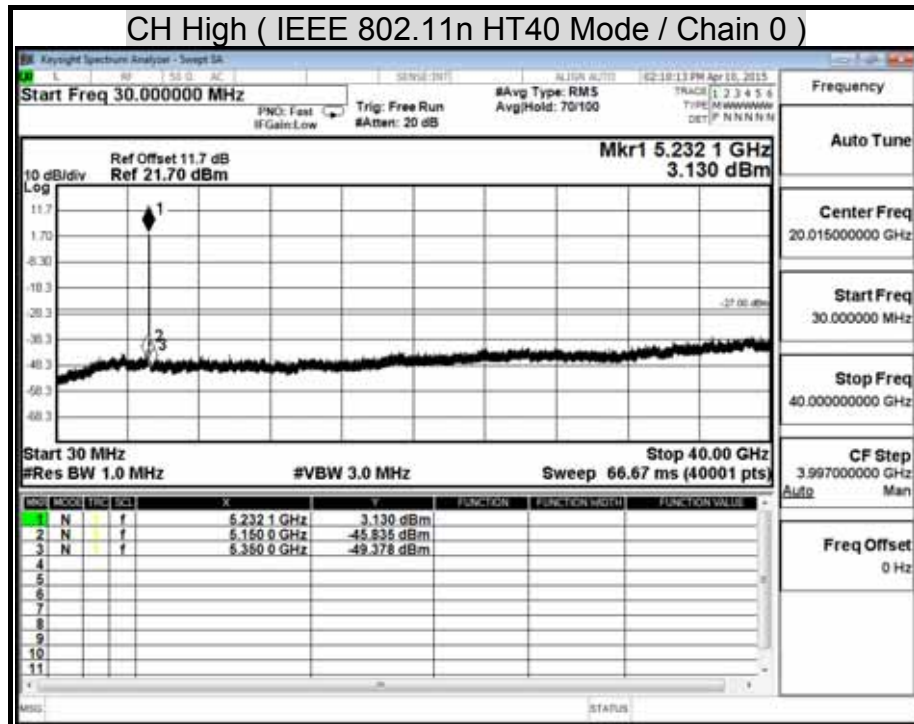


Test Mode: IEEE 802.11n HT 40 MHz mode / 5150 ~ 5250MHz CH Low (IEEE 802.11n HT40 Mode / Chain 0)



CH Middle (IEEE 802.11n HT40 Mode / Chain 0)

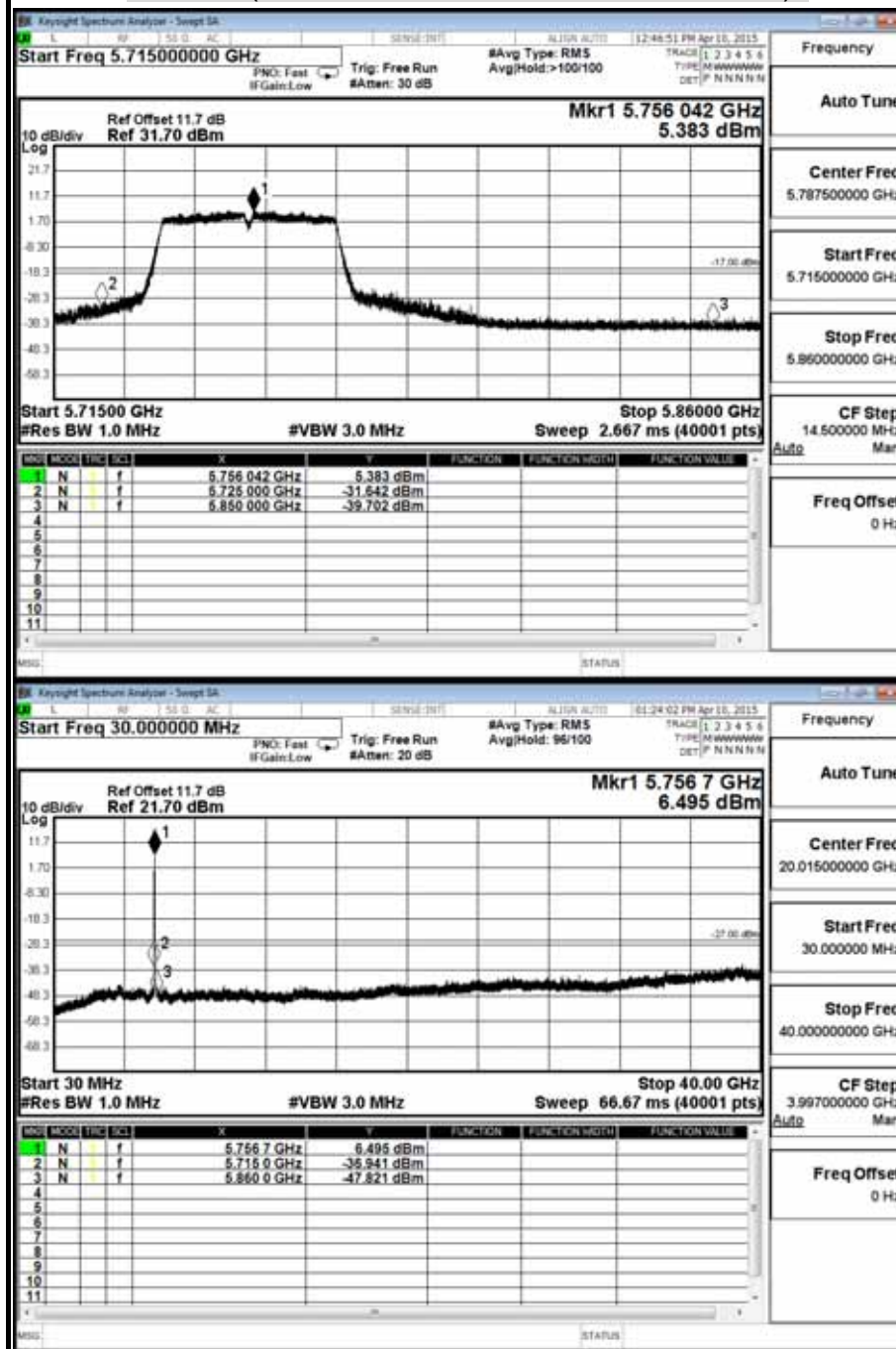


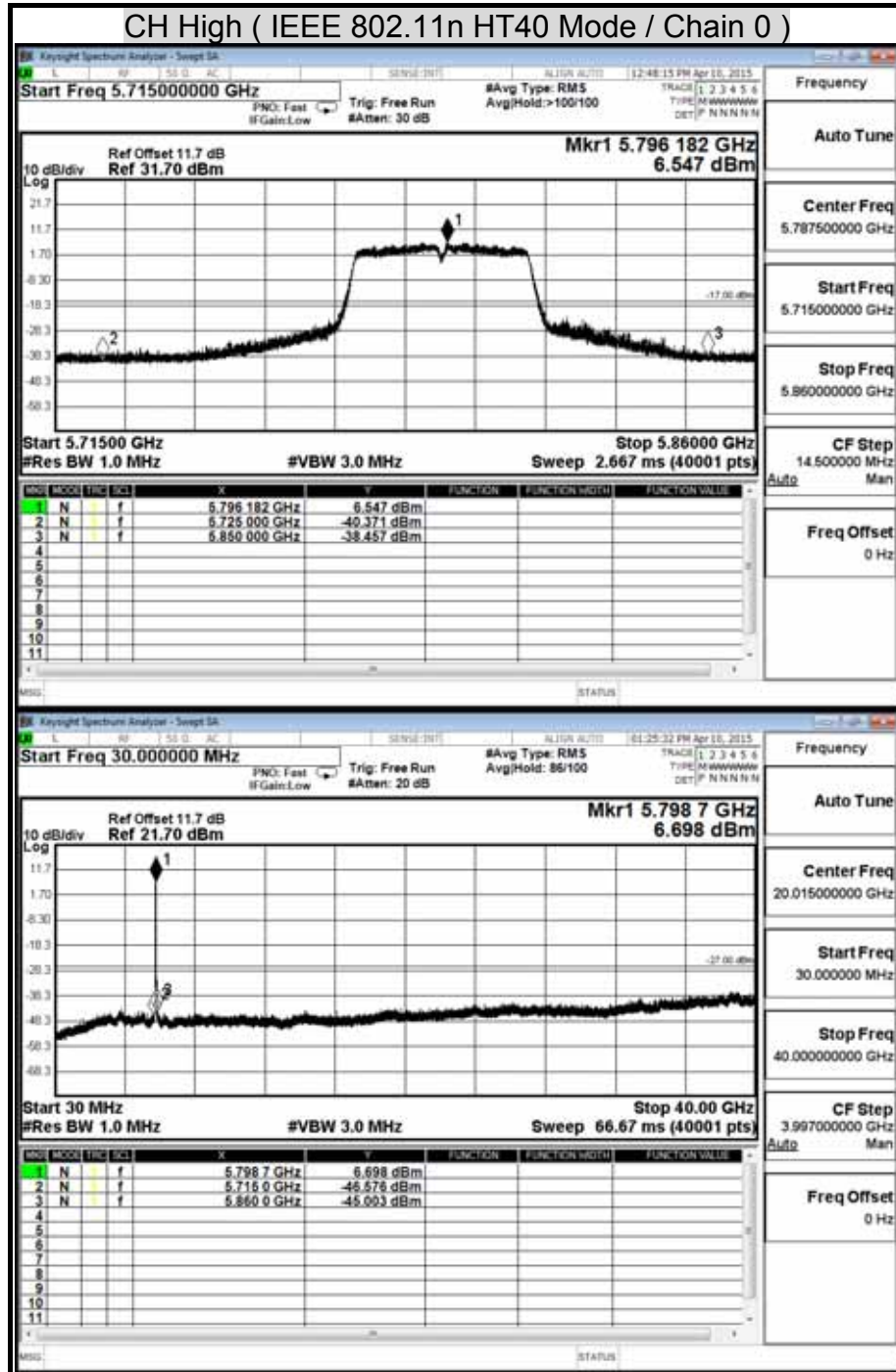




Test Mode: IEEE 802.11n HT 40 MHz mode / 5725 ~ 5850 MHz

CH Low (IEEE 802.11n HT40 Mode / Chain 0)

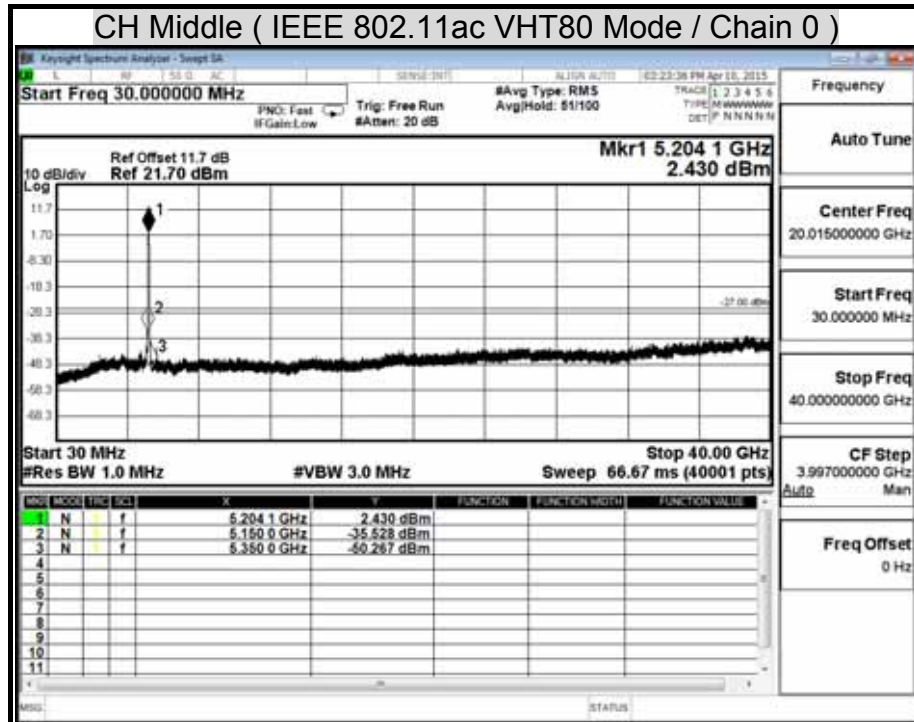






Test Mode: IEEE 802.11ac VHT 80 MHz mode / 5150 ~ 5250MHz

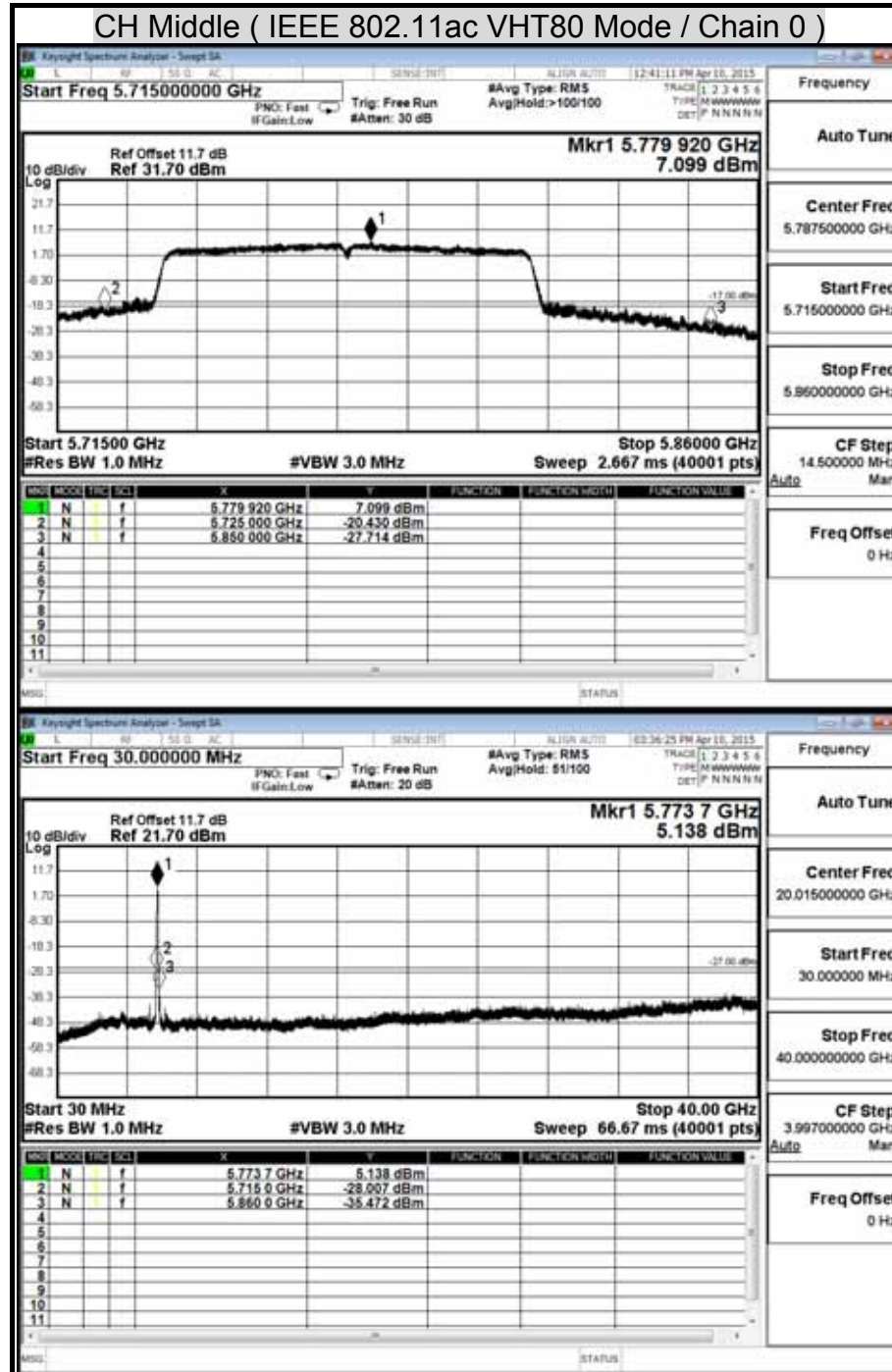
CH Middle (IEEE 802.11ac VHT80 Mode / Chain 0)





Test Mode: IEEE 802.11ac VHT 80 MHz mode / 5725 ~ 5850MHz

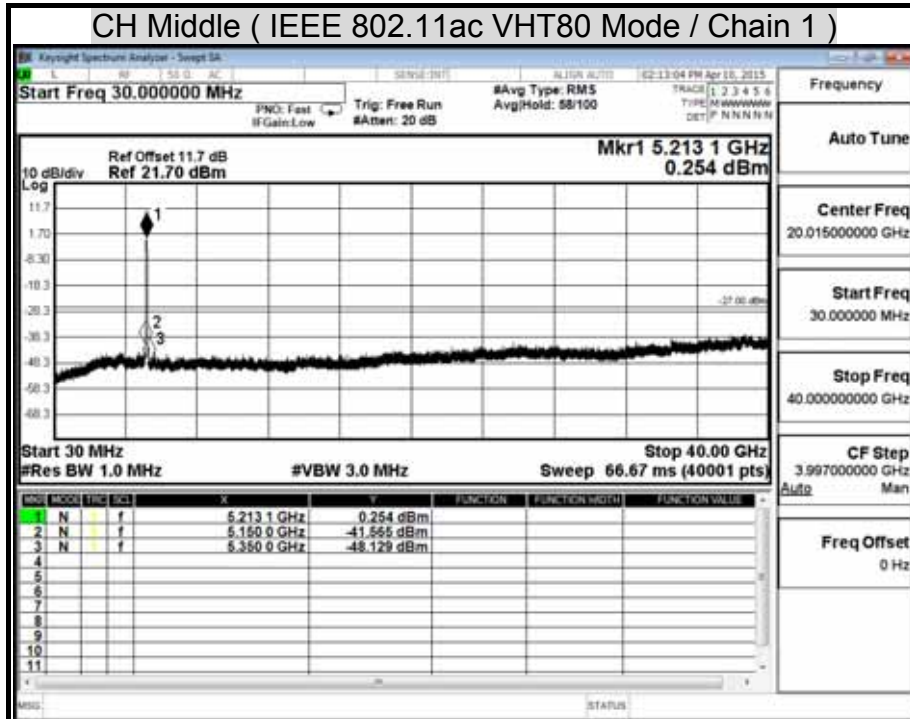
CH Middle (IEEE 802.11ac VHT80 Mode / Chain 0)





Test Mode: IEEE 802.11ac VHT 80 MHz mode / 5150 ~ 5250MHz

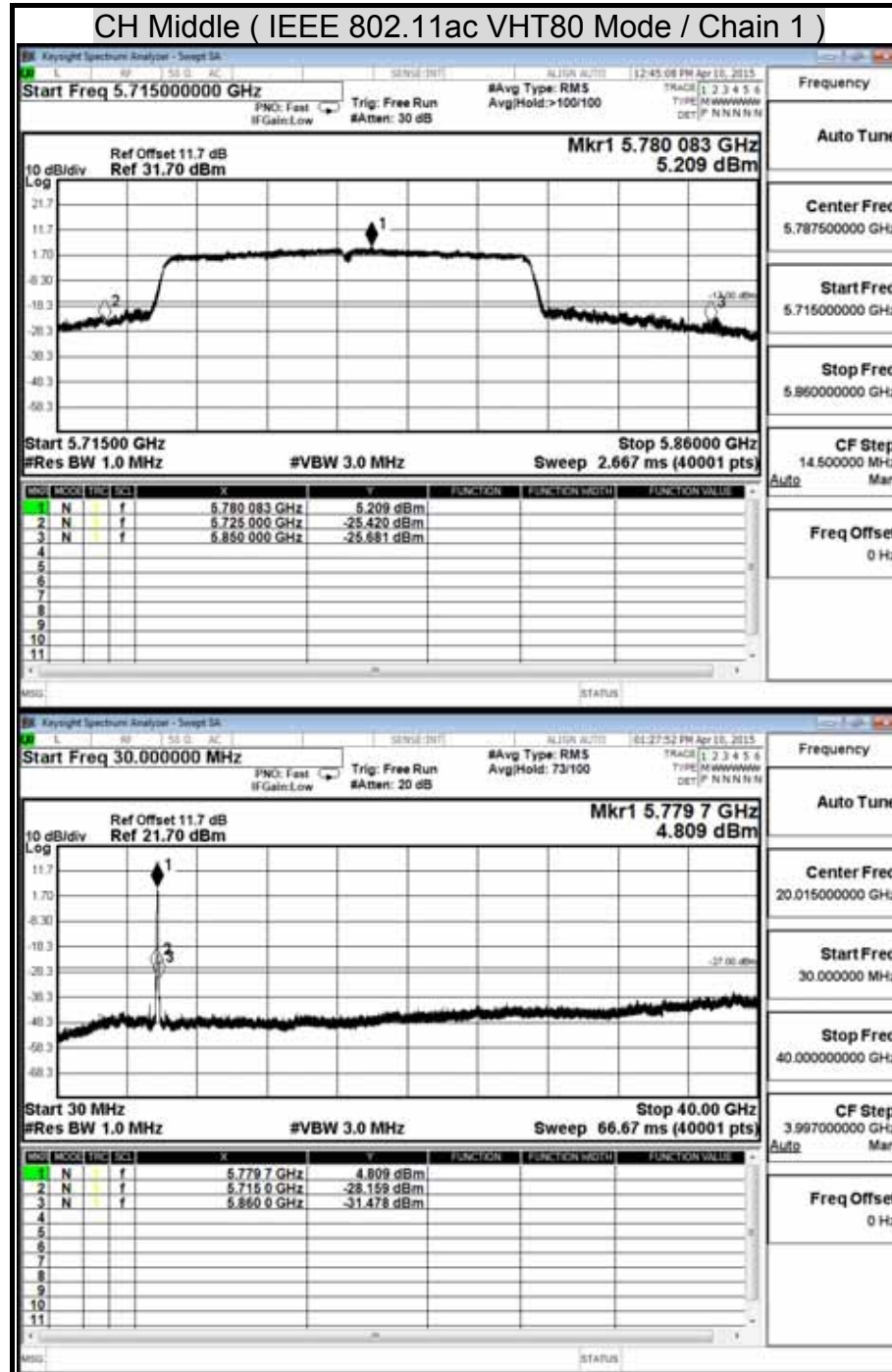
CH Middle (IEEE 802.11ac VHT80 Mode / Chain 1)





Test Mode: IEEE 802.11ac VHT 80 MHz mode / 5725 ~ 5850MHz

CH Middle (IEEE 802.11ac VHT80 Mode / Chain 1)





7.7 RADIATED EMISSION

LIMITS

- (1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

- ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
- ² Above 38.6

- (2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



- (3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- (4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

- (5) § 15.407 (b): Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (a) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (b) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (c) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (d) For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

**TEST EQUIPMENT**

The following test equipments are utilized in making the measurements contained in this report.

Open Area Test Site # 6				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
TYPE N COAXIAL CABLE	SUHNER	CHA9513	6	JAN. 20, 2016
BI-LOG Antenna	Sunol	JB1	A070506-2	AUG. 17, 2015
LOOP ANTENNA	EMCO	6502	8905-2356	JUN. 10, 2015
Pre-Amplifier	HP	8447F	2944A03817	JAN. 20, 2016
Pre-Amplifier	EMCI	EMC 012645	980098	DEC. 04, 2015
EMI Receiver	R&S	ESVS10	833206/012	JUN. 29, 2015
Horn Antenna	Com-Power	AH-118	071032	JAN. 09, 2016
3116 Double Ridge Antenna (40G)	ETS-LINDGREN	3116	00078900	MAR. 04, 2016
Turn Table	Yo Chen	001	-----	N.C.R.
Antenna Tower	AR	TP1000A	309874	N.C.R.
Controller	CT	SC101	-----	N.C.R.
RF Swicth	E-INSTRUMENT TELH LTD	ERS-180A	EC1204141	N.C.R
Spectrum Analyzer	R&S	FSU	200789	JUL. 01, 2015
Spectrum Analyzer	R&S	FSEM	830270/015	NCR
Spectrum Analyzer	R&S	FSEK 30	100264	JAN. 26, 2016
Signal Analyzer	ROHDE&SCHWARZ	FSV 40	101073	APR. 25, 2016
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	JAN. 23, 2016

Remark: 1. Each piece of equipment is scheduled for calibration once a year.

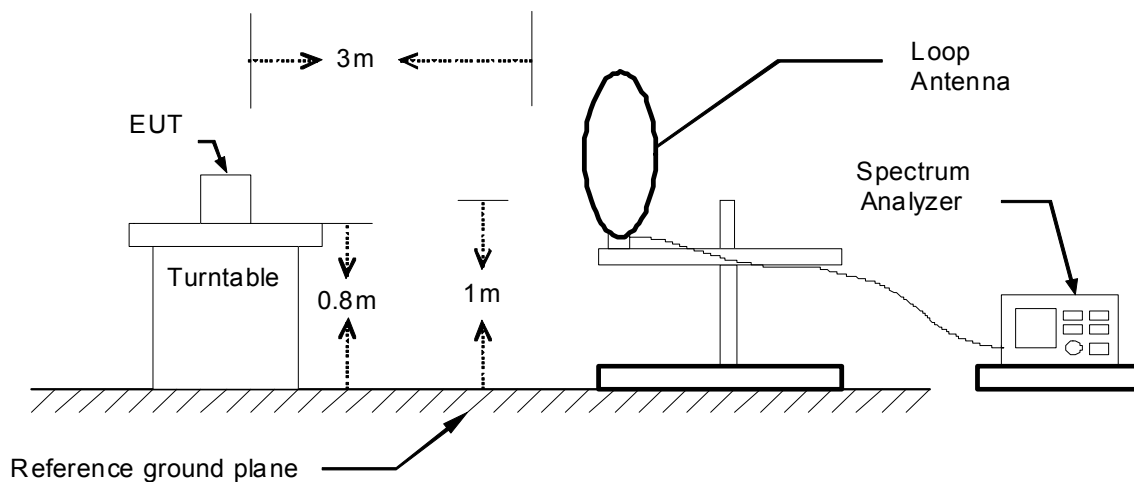
2. N.C.R = No Calibration Request.



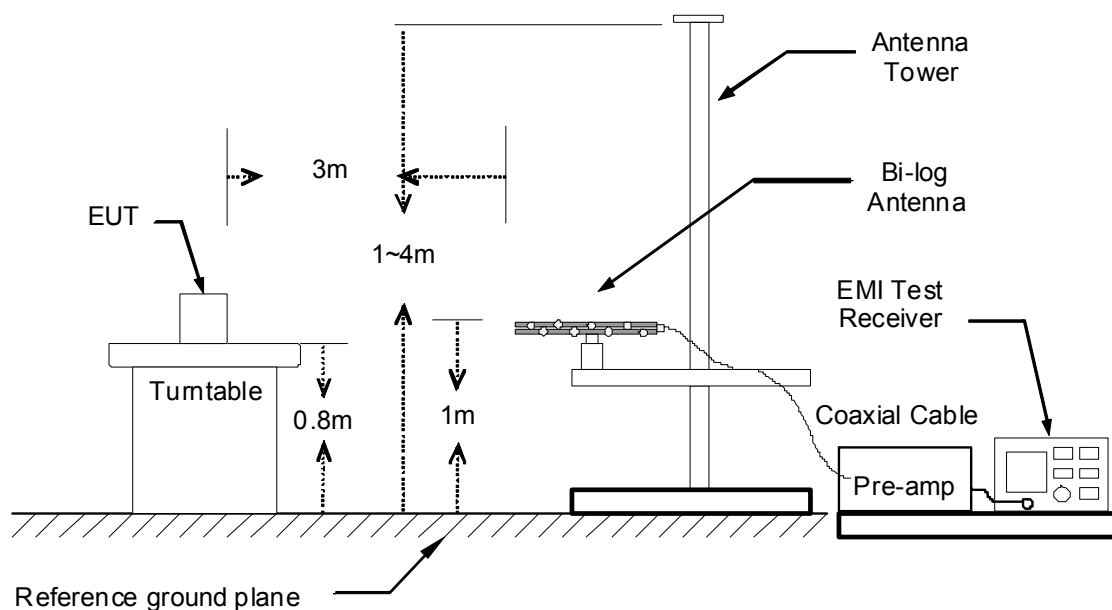
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

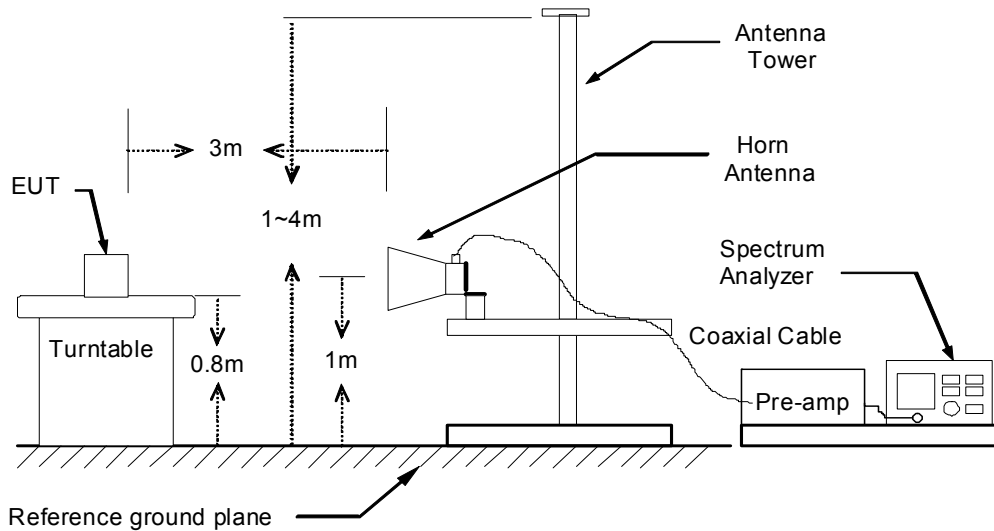
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

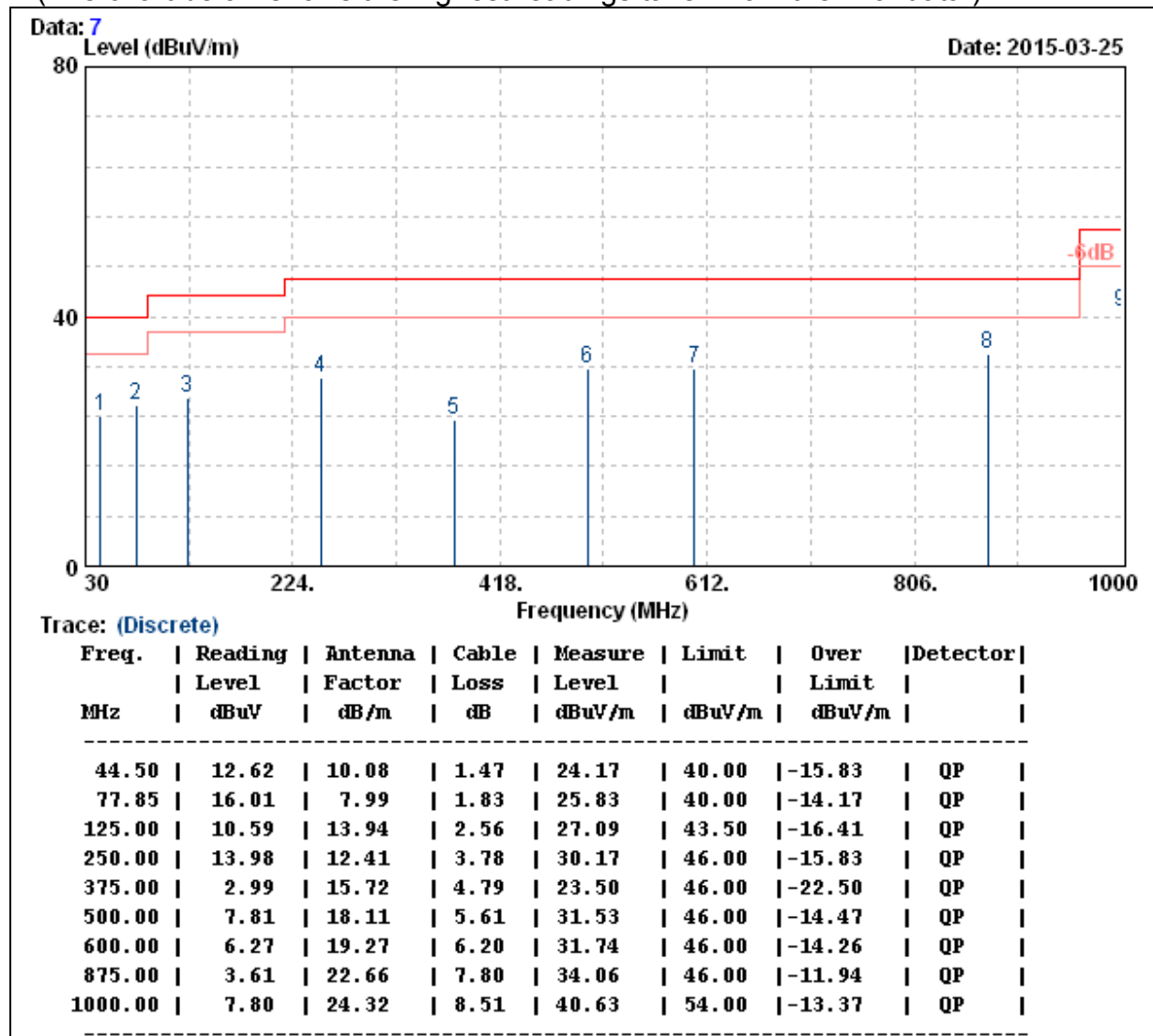
**TEST RESULTS****Below 1 GHz (9kHz ~ 30MHz)**

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Model No.	EAP706	Test Mode	Normal Operation
Environmental Conditions	24°C, 45% RH	Resolution Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function:	Quasi-peak.	Tested By	Taiyu Cyu
Test Site	OATS 5		

(The chart below shows the highest readings taken from the final data.)

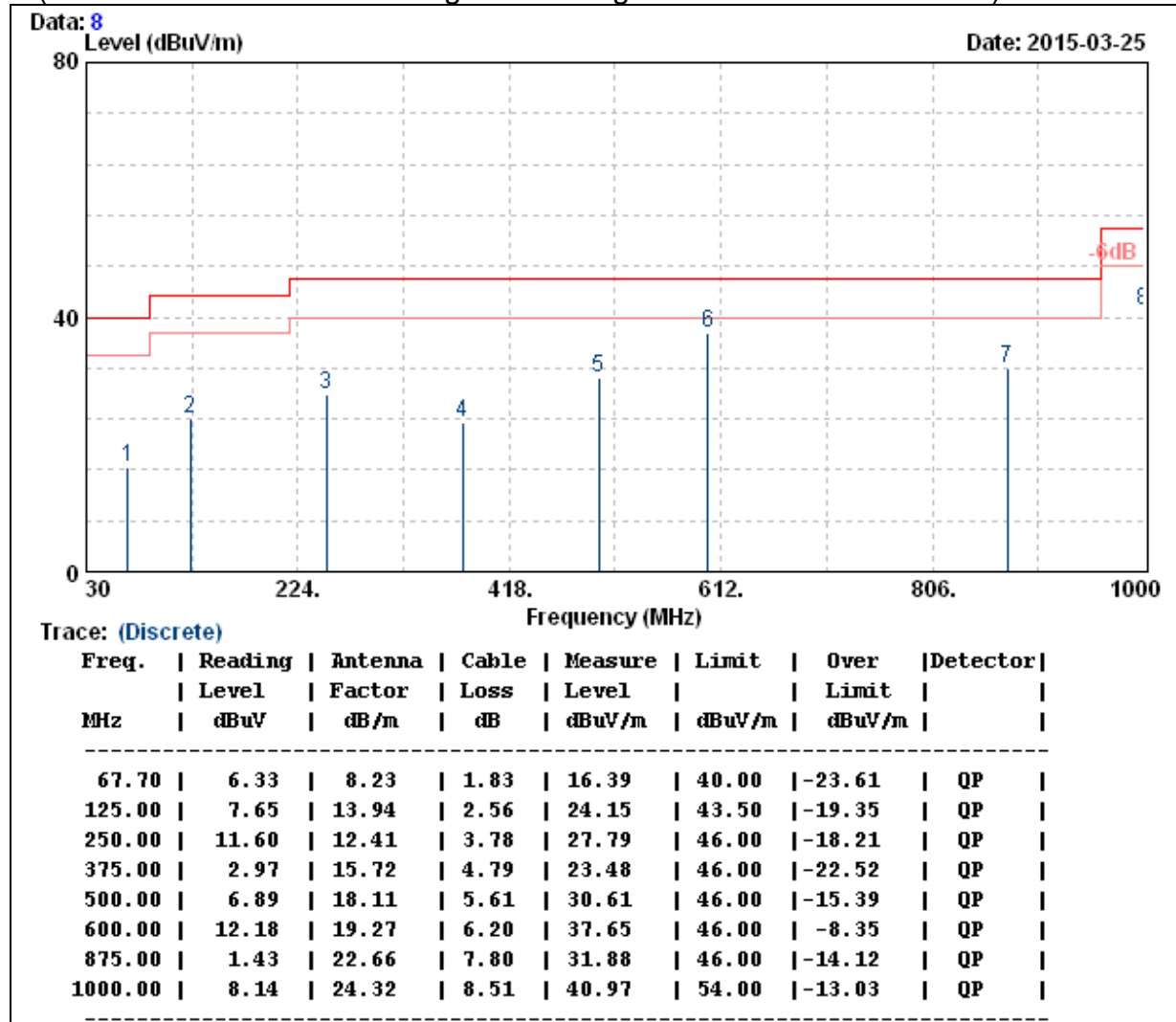


- Note: 1. QP= Quasi-peak Reading.
2. The other emission levels were very low against the limit



Model No.	EAP706	Test Mode	Normal Operation
Environmental Conditions	24°C, 45% RH	Resolution Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Taiyu Cyu
Test Site	OATS 5		

(The chart below shows the highest readings taken from the final data.)

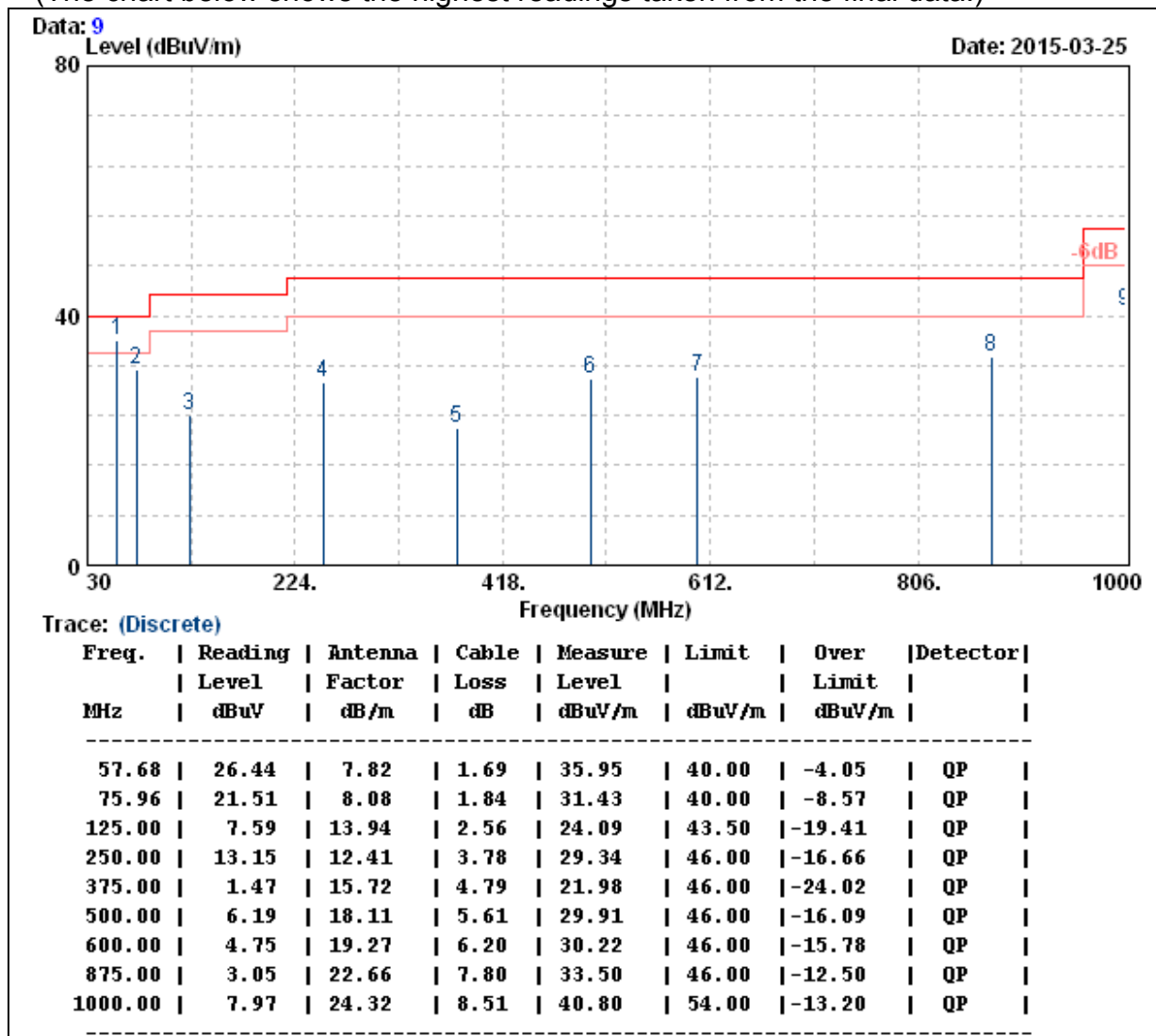


- Note: 1. QP= Quasi-peak Reading.
2. The other emission levels were very low against the limit



Model No.	EAP706	Test Mode	POE Mode
Environmental Conditions	24°C, 45% RH	Resolution Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function:	Quasi-peak.	Tested By	Taiyu Cyu
Test Site	OATS 5		

(The chart below shows the highest readings taken from the final data.)

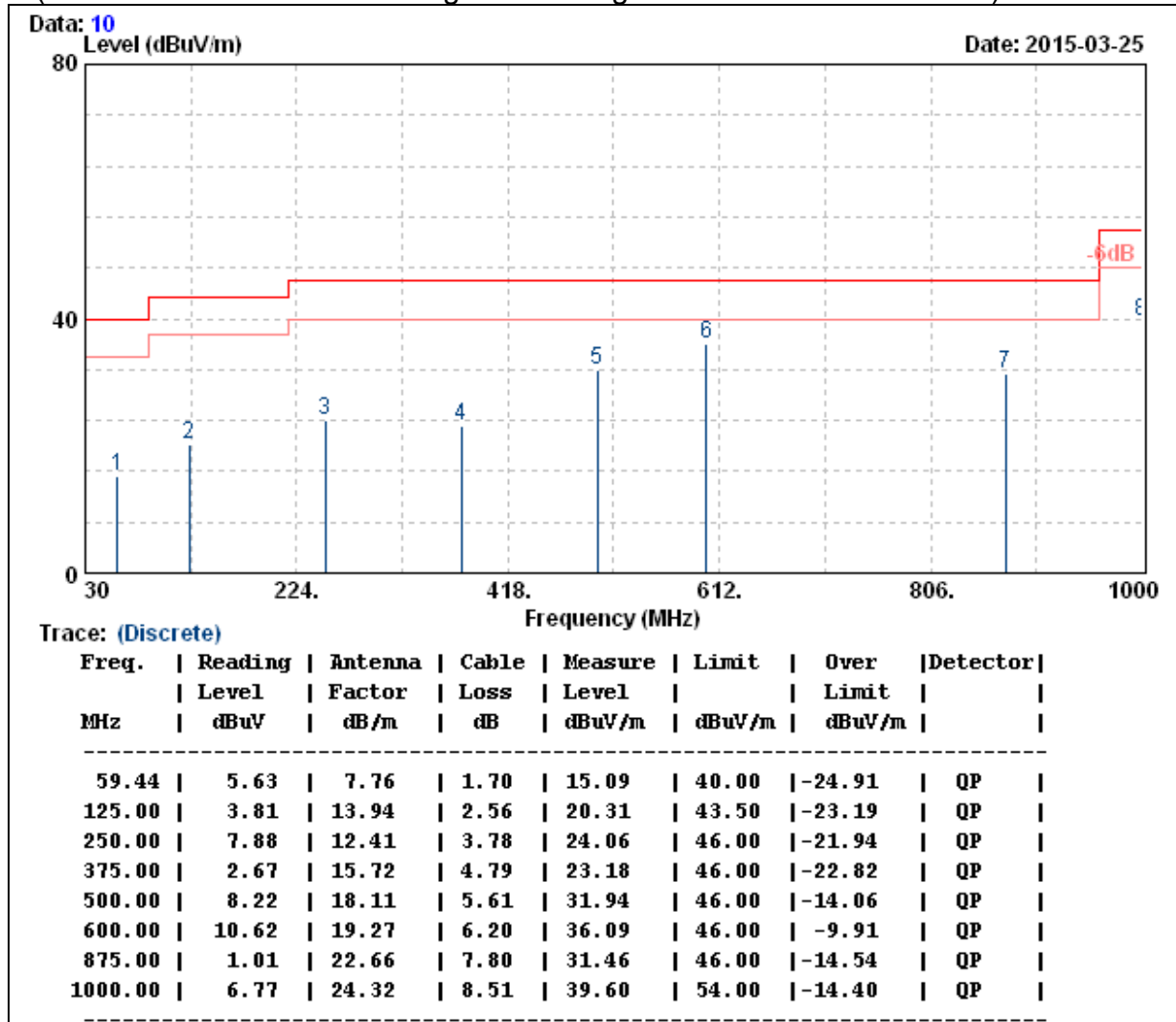


- Note: 1. QP= Quasi-peak Reading.
2. The other emission levels were very low against the limit



Model No.	EAP706	Test Mode	POE Mode
Environmental Conditions	24°C, 45% RH	Resolution Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Taiyu Cyu
Test Site	OATS 5		

(The chart below shows the highest readings taken from the final data.)



- Note: 1. QP= Quasi-peak Reading.
2. The other emission levels were very low against the limit



Above 1 GHz

Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11a TX / CH Low		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.97	63.82	30.98	3.22	47.58	0.30	50.74	68.20	-17.46	P
3599.97	57.15	30.98	3.22	47.58	0.30	44.07	68.20	-24.13	A
* 4200.03	63.46	32.18	3.48	48.01	0.34	51.45	74.00	-22.55	P
* 4200.03	58.34	32.18	3.48	48.01	0.34	46.33	54.00	-7.67	A
10361.15	62.75	39.40	4.87	45.51	0.50	62.01	68.20	-6.19	P
10361.15	53.15	39.40	4.87	45.51	0.50	52.40	68.20	-15.80	A
* 15539.90	54.24	41.22	6.15	47.84	0.80	54.57	74.00	-19.43	P
* 15539.90	47.14	41.22	6.15	47.84	0.80	47.47	54.00	-6.53	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.01	64.58	30.98	3.22	47.58	0.30	51.50	74.00	-22.50	P
* 3600.01	59.41	30.98	3.22	47.58	0.30	46.33	54.00	-7.67	A
* 4199.97	63.09	32.18	3.48	48.01	0.34	51.08	74.00	-22.92	P
* 4199.97	58.16	32.18	3.48	48.01	0.34	46.15	54.00	-7.85	A
10363.18	67.07	39.40	4.87	45.51	0.50	66.32	68.20	-1.88	P
10363.18	58.24	39.40	4.87	45.51	0.50	57.49	68.20	-10.71	A
* 15541.08	54.91	41.22	6.15	47.84	0.80	55.25	74.00	-18.75	P
* 15541.08	47.34	41.22	6.15	47.84	0.80	47.68	54.00	-6.32	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11a TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.29	62.94	30.98	3.22	47.58	0.30	49.86	74.00	-24.14	P
* 3600.29	58.13	30.98	3.22	47.58	0.30	45.05	54.00	-8.95	A
* 4200.05	63.37	32.18	3.48	48.01	0.34	51.36	74.00	-22.64	P
* 4200.05	58.66	32.18	3.48	48.01	0.34	46.65	54.00	-7.35	A
10397.34	62.29	39.40	4.87	45.48	0.50	61.58	68.20	-6.62	P
10397.34	53.01	39.40	4.87	45.48	0.50	52.30	68.20	-15.90	A
* 15599.96	53.82	41.54	6.16	47.87	0.80	54.46	74.00	-19.54	P
* 15599.96	47.03	41.54	6.16	47.87	0.80	47.66	54.00	-6.34	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.18	64.58	30.98	3.22	47.58	0.30	51.50	74.00	-22.50	P
* 3600.18	59.14	30.98	3.22	47.58	0.30	46.06	54.00	-7.94	A
* 4200.08	63.86	32.18	3.48	48.01	0.34	51.85	74.00	-22.15	P
* 4200.08	59.02	32.18	3.48	48.01	0.34	47.01	54.00	-6.99	A
10401.70	66.04	39.40	4.87	45.47	0.50	65.33	68.20	-2.87	P
10401.70	56.14	39.40	4.87	45.47	0.50	55.44	68.20	-12.76	A
* 15599.22	54.29	41.54	6.16	47.87	0.80	54.92	74.00	-19.08	P
* 15599.22	47.29	41.54	6.16	47.87	0.80	47.92	54.00	-6.08	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11a TX / CH High		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.01	62.48	30.98	3.22	47.58	0.30	49.40	74.00	-24.60	P
* 3600.01	58.36	30.98	3.22	47.58	0.30	45.28	54.00	-8.72	A
* 4199.98	59.28	32.18	3.48	48.01	0.34	47.27	74.00	-26.73	P
* 4199.98	54.02	32.18	3.48	48.01	0.34	42.01	54.00	-11.99	A
10481.92	64.83	39.40	4.88	45.40	0.50	64.21	68.20	-3.99	P
10481.92	56.39	39.40	4.88	45.40	0.50	55.77	68.20	-12.43	A
* 15719.92	53.40	42.19	6.18	47.93	0.80	54.64	74.00	-19.36	P
* 15719.92	47.24	42.19	6.18	47.93	0.80	48.48	54.00	-5.52	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.02	64.57	30.98	3.22	47.58	0.30	51.49	74.00	-22.51	P
* 3600.02	60.05	30.98	3.22	47.58	0.30	46.97	54.00	-7.03	A
* 4200.14	64.38	32.18	3.48	48.01	0.34	52.37	74.00	-21.63	P
* 4200.14	59.71	32.18	3.48	48.01	0.34	47.70	54.00	-6.30	A
10481.80	66.78	39.40	4.88	45.40	0.50	66.16	68.20	-2.04	P
10481.80	57.41	39.40	4.88	45.40	0.50	56.79	68.20	-11.41	A
* 15722.10	52.98	42.20	6.18	47.93	0.80	54.23	74.00	-19.77	P
* 15722.10	46.94	42.20	6.18	47.93	0.80	48.19	54.00	-5.81	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11a TX / CH Low		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.97	63.56	30.98	3.22	47.58	0.30	50.48	68.20	-17.72	P
3599.97	57.96	30.98	3.22	47.58	0.30	44.88	68.20	-23.32	A
* 4200.03	63.78	32.18	3.48	48.01	0.34	51.77	74.00	-22.23	P
* 4200.03	58.43	32.18	3.48	48.01	0.34	46.42	54.00	-7.58	A
* 11491.20	62.49	40.88	4.96	46.16	0.60	62.77	74.00	-11.23	P
* 11491.20	52.49	40.88	4.96	46.16	0.60	52.77	54.00	-1.23	A
17235.84	57.07	47.69	6.41	47.81	0.85	64.21	68.20	-3.99	P
17235.84	47.26	47.69	6.41	47.81	0.85	54.40	68.20	-13.80	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.96	64.58	30.98	3.22	47.58	0.30	51.50	68.20	-16.70	P
3599.96	59.58	30.98	3.22	47.58	0.30	46.50	68.20	-21.70	A
* 4200.08	63.18	32.18	3.48	48.01	0.34	51.17	74.00	-22.83	P
* 4200.08	58.46	32.18	3.48	48.01	0.34	46.45	54.00	-7.55	A
* 11490.86	61.90	40.88	4.96	46.16	0.60	62.18	74.00	-11.82	P
* 11490.86	51.94	40.88	4.96	46.16	0.60	52.22	54.00	-1.78	A
17227.15	58.35	47.65	6.40	47.80	0.85	65.46	68.20	-2.74	P
17227.15	50.13	47.65	6.40	47.80	0.85	57.24	68.20	-10.96	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11a TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.26	63.24	30.98	3.22	47.58	0.30	50.16	74.00	-23.84	P
* 3600.26	57.16	30.98	3.22	47.58	0.30	44.08	54.00	-9.92	A
* 4200.13	63.47	32.18	3.48	48.01	0.34	51.46	74.00	-22.54	P
* 4200.13	58.16	32.18	3.48	48.01	0.34	46.15	54.00	-7.85	A
* 11565.75	56.16	40.91	4.97	46.32	0.60	56.33	74.00	-17.67	P
* 11565.75	47.35	40.91	4.97	46.32	0.60	47.52	54.00	-6.48	A
17354.05	54.47	48.19	6.43	47.95	0.87	62.01	68.20	-6.19	P
17354.05	47.09	48.19	6.43	47.95	0.87	54.63	68.20	-13.57	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.08	65.12	30.98	3.22	47.58	0.30	52.04	74.00	-21.96	P
* 3600.08	60.43	30.98	3.22	47.58	0.30	47.35	54.00	-6.65	A
* 4200.02	63.68	32.18	3.48	48.01	0.34	51.67	74.00	-22.33	P
* 4200.02	59.15	32.18	3.48	48.01	0.34	47.14	54.00	-6.86	A
* 11570.32	63.21	40.91	4.97	46.33	0.60	63.37	74.00	-10.63	P
* 11570.32	51.17	40.91	4.97	46.33	0.60	51.33	54.00	-2.67	A
17355.94	57.39	48.19	6.44	47.95	0.87	64.94	68.20	-3.26	P
17355.94	49.21	48.19	6.44	47.95	0.87	56.76	68.20	-11.44	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable - Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11a TX / CH High		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.03	61.57	30.98	3.22	47.58	0.30	48.49	74.00	-25.51	P
* 3600.03	56.26	30.98	3.22	47.58	0.30	43.18	54.00	-10.82	A
* 4199.97	59.13	32.18	3.48	48.01	0.34	47.12	74.00	-26.88	P
* 4199.97	52.96	32.18	3.48	48.01	0.34	40.95	54.00	-13.05	A
* 11655.70	58.32	40.93	4.98	46.52	0.60	58.32	74.00	-15.68	P
* 11655.70	48.52	40.93	4.98	46.52	0.60	48.52	54.00	-5.48	A
17476.25	54.55	48.70	6.46	48.10	0.90	62.50	68.20	-5.70	P
17476.25	47.16	48.70	6.46	48.10	0.90	55.12	68.20	-13.08	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.03	64.68	30.98	3.22	47.58	0.30	51.60	74.00	-22.40	P
* 3600.03	59.59	30.98	3.22	47.58	0.30	46.51	54.00	-7.49	A
* 4199.96	64.22	32.18	3.48	48.01	0.34	52.21	74.00	-21.79	P
* 4199.96	59.30	32.18	3.48	48.01	0.34	47.29	54.00	-6.71	A
* 11650.76	59.61	40.93	4.98	46.51	0.60	59.62	74.00	-14.38	P
* 11650.76	48.14	40.93	4.98	46.51	0.60	48.15	54.00	-5.85	A
17472.50	54.82	48.68	6.46	48.10	0.89	62.77	68.20	-5.43	P
17472.50	46.95	48.68	6.46	48.10	0.89	54.90	68.20	-13.30	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11n HT20 TX / CH Low		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.03	64.28	30.98	3.22	47.58	0.30	51.20	74.00	-22.80	P
* 3600.03	60.11	30.98	3.22	47.58	0.30	47.03	54.00	-6.97	A
* 4199.96	63.54	32.18	3.48	48.01	0.34	51.53	74.00	-22.47	P
* 4199.96	58.47	32.18	3.48	48.01	0.34	46.46	54.00	-7.54	A
10359.95	61.82	39.40	4.87	45.51	0.50	61.07	68.20	-7.13	P
10359.95	53.09	39.40	4.87	45.51	0.50	52.34	68.20	-15.86	A
* 15539.89	54.62	41.22	6.15	47.84	0.80	54.95	74.00	-19.05	P
* 15539.89	47.23	41.22	6.15	47.84	0.80	47.56	54.00	-6.44	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.98	64.48	30.98	3.22	47.58	0.30	51.40	68.20	-16.80	P
3599.98	59.40	30.98	3.22	47.58	0.30	46.32	68.20	-21.88	A
* 4200.08	63.72	32.18	3.48	48.01	0.34	51.71	74.00	-22.29	P
* 4200.08	58.31	32.18	3.48	48.01	0.34	46.30	54.00	-7.70	A
10359.04	65.96	39.40	4.87	45.52	0.50	65.21	68.20	-2.99	P
10359.04	56.19	39.40	4.87	45.52	0.50	55.44	68.20	-12.76	A
* 15539.54	54.07	41.21	6.15	47.84	0.80	54.40	74.00	-19.60	P
* 15539.54	47.19	41.21	6.15	47.84	0.80	47.52	54.00	-6.48	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11n HT20 TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.24	63.48	30.98	3.22	47.58	0.30	50.40	74.00	-23.60	P
* 3600.24	58.91	30.98	3.22	47.58	0.30	45.83	54.00	-8.17	A
* 4200.13	63.76	32.18	3.48	48.01	0.34	51.75	74.00	-22.25	P
* 4200.13	58.84	32.18	3.48	48.01	0.34	46.83	54.00	-7.17	A
10399.06	63.12	39.40	4.87	45.48	0.50	62.41	68.20	-5.79	P
10399.06	55.03	39.40	4.87	45.48	0.50	54.32	68.20	-13.88	A
* 15599.15	54.29	41.54	6.16	47.87	0.80	54.92	74.00	-19.08	P
* 15599.15	47.60	41.54	6.16	47.87	0.80	48.23	54.00	-5.77	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.97	64.81	30.98	3.22	47.58	0.30	51.73	68.20	-16.47	P
3599.97	59.71	30.98	3.22	47.58	0.30	46.63	68.20	-21.57	A
* 4200.03	64.57	32.18	3.48	48.01	0.34	52.56	74.00	-21.44	P
* 4200.03	59.25	32.18	3.48	48.01	0.34	47.24	54.00	-6.76	A
10399.32	64.95	39.40	4.87	45.48	0.50	64.24	68.20	-3.96	P
10399.32	55.44	39.40	4.87	45.48	0.50	54.73	68.20	-13.47	A
* 15598.96	54.10	41.53	6.16	47.87	0.80	54.73	74.00	-19.27	P
* 15598.96	47.34	41.53	6.16	47.87	0.80	47.97	54.00	-6.03	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11n HT20 TX / CH High		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.98	62.16	30.98	3.22	47.58	0.30	49.08	68.20	-19.12	P
3599.98	57.15	30.98	3.22	47.58	0.30	44.07	68.20	-24.13	A
* 4200.02	59.08	32.18	3.48	48.01	0.34	47.07	74.00	-26.93	P
* 4200.02	54.93	32.18	3.48	48.01	0.34	42.92	54.00	-11.08	A
10479.34	62.55	39.40	4.88	45.40	0.50	61.93	68.20	-6.27	P
10479.34	53.71	39.40	4.88	45.40	0.50	53.09	68.20	-15.11	A
* 15721.11	53.26	42.19	6.18	47.93	0.80	54.50	74.00	-19.50	P
* 15721.11	47.75	42.19	6.18	47.93	0.80	48.99	54.00	-5.01	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.02	64.68	30.98	3.22	47.58	0.30	51.60	74.00	-22.40	P
* 3600.02	59.11	30.98	3.22	47.58	0.30	46.03	54.00	-7.97	A
* 4199.98	64.42	32.18	3.48	48.01	0.34	52.41	74.00	-21.59	P
* 4199.98	59.63	32.18	3.48	48.01	0.34	47.62	54.00	-6.38	A
10479.10	66.05	39.40	4.88	45.40	0.50	65.43	68.20	-2.77	P
10479.10	57.41	39.40	4.88	45.40	0.50	56.79	68.20	-11.41	A
* 15720.24	53.29	42.19	6.18	47.93	0.80	54.53	74.00	-19.47	P
* 15720.24	47.09	42.19	6.18	47.93	0.80	48.33	54.00	-5.67	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable - Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11n HT20 TX / CH Low		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.13	64.26	30.98	3.22	47.58	0.30	51.18	74.00	-22.82	P
* 3600.13	60.10	30.98	3.22	47.58	0.30	47.02	54.00	-6.98	A
* 4199.97	63.78	32.18	3.48	48.01	0.34	51.77	74.00	-22.23	P
* 4199.97	59.26	32.18	3.48	48.01	0.34	47.25	54.00	-6.75	A
* 11489.22	61.46	40.87	4.96	46.16	0.60	61.73	74.00	-12.27	P
* 11489.22	52.34	40.87	4.96	46.16	0.60	52.62	54.00	-1.38	A
17237.26	57.09	47.70	6.41	47.81	0.85	64.23	68.20	-3.97	P
17237.26	50.71	47.70	6.41	47.81	0.85	57.85	68.20	-10.35	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.99	64.15	30.98	3.22	47.58	0.30	51.07	68.20	-17.13	P
3599.99	60.06	30.98	3.22	47.58	0.30	46.98	68.20	-21.22	A
* 4199.97	63.38	32.18	3.48	48.01	0.34	51.37	74.00	-22.63	P
* 4199.97	57.68	32.18	3.48	48.01	0.34	45.67	54.00	-8.33	A
* 11489.92	60.93	40.88	4.96	46.16	0.60	61.20	74.00	-12.80	P
* 11489.92	50.83	40.88	4.96	46.16	0.60	51.11	54.00	-2.89	A
17234.39	56.54	47.68	6.41	47.81	0.85	63.67	68.20	-4.53	P
17234.39	47.66	47.68	6.41	47.81	0.85	54.79	68.20	-13.41	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11n HT20 TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.14	63.18	30.98	3.22	47.58	0.30	50.10	74.00	-23.90	P
* 3600.14	57.16	30.98	3.22	47.58	0.30	44.08	54.00	-9.92	A
* 4200.03	63.62	32.18	3.48	48.01	0.34	51.61	74.00	-22.39	P
* 4200.03	57.29	32.18	3.48	48.01	0.34	45.28	54.00	-8.72	A
* 11571.92	59.45	40.91	4.97	46.33	0.60	59.60	74.00	-14.40	P
* 11571.92	49.52	40.91	4.97	46.33	0.60	49.67	54.00	-4.33	A
17356.14	55.33	48.20	6.44	47.95	0.87	62.88	68.20	-5.32	P
17356.14	48.02	48.20	6.44	47.95	0.87	55.57	68.20	-12.63	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.97	65.16	30.98	3.22	47.58	0.30	52.08	68.20	-16.12	P
3599.97	61.49	30.98	3.22	47.58	0.30	48.41	68.20	-19.79	A
* 4200.02	64.38	32.18	3.48	48.01	0.34	52.37	74.00	-21.63	P
* 4200.02	59.49	32.18	3.48	48.01	0.34	47.48	54.00	-6.52	A
* 11570.07	56.68	40.91	4.97	46.33	0.60	56.84	74.00	-17.16	P
* 11570.07	48.10	40.91	4.97	46.33	0.60	48.26	54.00	-5.74	A
17356.07	57.08	48.20	6.44	47.95	0.87	64.62	68.20	-3.58	P
17356.07	47.11	48.20	6.44	47.95	0.87	54.66	68.20	-13.54	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11n HT20 TX / CH High		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.98	62.24	30.98	3.22	47.58	0.30	49.16	68.20	-19.04	P
3599.98	57.53	30.98	3.22	47.58	0.30	44.45	68.20	-23.75	A
* 4200.02	59.23	32.18	3.48	48.01	0.34	47.22	74.00	-26.78	P
* 4200.02	53.86	32.18	3.48	48.01	0.34	41.85	54.00	-12.15	A
* 11649.65	56.82	40.93	4.98	46.51	0.60	56.83	74.00	-17.17	P
* 11649.65	48.02	40.93	4.98	46.51	0.60	48.03	54.00	-5.97	A
17471.78	54.90	48.68	6.46	48.10	0.89	62.84	68.20	-5.36	P
17471.78	47.67	48.68	6.46	48.10	0.89	55.61	68.20	-12.59	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.02	64.33	30.98	3.22	47.58	0.30	51.25	74.00	-22.75	P
* 3600.02	59.41	30.98	3.22	47.58	0.30	46.33	54.00	-7.67	A
* 4199.98	64.18	32.18	3.48	48.01	0.34	52.17	74.00	-21.83	P
* 4199.98	58.86	32.18	3.48	48.01	0.34	46.85	54.00	-7.15	A
* 11649.83	58.12	40.93	4.98	46.51	0.60	58.13	74.00	-15.87	P
* 11649.83	48.93	40.93	4.98	46.51	0.60	48.94	54.00	-5.06	A
17469.98	56.65	48.67	6.46	48.09	0.89	64.59	68.20	-3.61	P
17469.98	47.05	48.67	6.46	48.09	0.89	54.99	68.20	-13.21	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11n HT40 TX / CH Low		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.98	63.37	30.98	3.22	47.58	0.30	50.29	68.20	-17.91	P
3599.98	58.11	30.98	3.22	47.58	0.30	45.03	68.20	-23.17	A
* 4200.03	60.58	32.18	3.48	48.01	0.34	48.57	74.00	-25.43	P
* 4200.03	55.43	32.18	3.48	48.01	0.34	43.42	54.00	-10.58	A
10380.09	57.59	39.40	4.87	45.50	0.50	56.86	68.20	-11.34	P
10380.09	48.19	39.40	4.87	45.50	0.50	47.46	68.20	-20.74	A
* 15569.79	54.60	41.38	6.16	47.85	0.80	55.08	74.00	-18.92	P
* 15569.79	47.30	41.38	6.16	47.85	0.80	47.78	54.00	-6.22	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.01	64.28	30.98	3.22	47.58	0.30	51.20	74.00	-22.80	P
* 3600.01	59.11	30.98	3.22	47.58	0.30	46.03	54.00	-7.97	A
* 4200.09	61.82	32.18	3.48	48.01	0.34	49.81	74.00	-24.19	P
* 4200.09	56.43	32.18	3.48	48.01	0.34	44.42	54.00	-9.58	A
10378.94	58.37	39.40	4.87	45.50	0.50	57.64	68.20	-10.56	P
10378.94	49.38	39.40	4.87	45.50	0.50	48.65	68.20	-19.55	A
* 15571.26	53.95	41.38	6.16	47.85	0.80	54.43	74.00	-19.57	P
* 15571.26	47.69	41.38	6.16	47.85	0.80	48.18	54.00	-5.82	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11n HT40 TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.04	62.86	30.98	3.22	47.58	0.30	49.78	74.00	-24.22	P
* 3600.04	57.29	30.98	3.22	47.58	0.30	44.21	54.00	-9.79	A
* 4199.96	60.72	32.18	3.48	48.01	0.34	48.71	74.00	-25.29	P
* 4199.96	55.38	32.18	3.48	48.01	0.34	43.37	54.00	-10.63	A
10419.95	55.88	39.40	4.87	45.46	0.50	55.19	68.20	-13.01	P
10419.95	46.39	39.40	4.87	45.46	0.50	45.71	68.20	-22.49	A
* 15930.03	53.24	43.32	6.20	48.03	0.80	55.54	74.00	-18.46	P
* 15930.03	47.19	43.32	6.20	48.03	0.80	49.49	54.00	-4.51	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.14	65.08	30.98	3.22	47.58	0.30	52.00	74.00	-22.00	P
* 3600.14	60.22	30.98	3.22	47.58	0.30	47.14	54.00	-6.86	A
* 4199.98	63.17	32.18	3.48	48.01	0.34	51.16	74.00	-22.84	P
* 4199.98	58.49	32.18	3.48	48.01	0.34	46.48	54.00	-7.52	A
10418.82	57.54	39.40	4.87	45.46	0.50	56.85	68.20	-11.35	P
10418.82	48.33	39.40	4.87	45.46	0.50	47.64	68.20	-20.56	A
* 15631.02	53.84	41.71	6.17	47.88	0.80	54.63	74.00	-19.37	P
* 15631.02	47.26	41.71	6.17	47.88	0.80	48.05	54.00	-5.95	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11n HT40 TX / CH High		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.98	63.68	30.98	3.22	47.58	0.30	50.60	68.20	-17.60	P
3599.98	58.73	30.98	3.22	47.58	0.30	45.65	68.20	-22.55	A
* 4200.03	61.57	32.18	3.48	48.01	0.34	49.56	74.00	-24.44	P
* 4200.03	55.49	32.18	3.48	48.01	0.34	43.48	54.00	-10.52	A
10460.22	56.59	39.40	4.88	45.42	0.50	55.95	68.20	-12.25	P
10460.22	47.41	39.40	4.88	45.42	0.50	46.77	68.20	-21.43	A
* 15689.97	54.12	42.03	6.17	47.91	0.80	55.20	74.00	-18.80	P
* 15689.97	47.33	42.03	6.17	47.91	0.80	48.42	54.00	-5.58	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.00	64.23	30.98	3.22	47.58	0.30	51.15	74.00	-22.85	P
* 3600.00	59.11	30.98	3.22	47.58	0.30	46.03	54.00	-7.97	A
* 4200.06	61.64	32.18	3.48	48.01	0.34	49.63	74.00	-24.37	P
* 4200.06	56.71	32.18	3.48	48.01	0.34	44.70	54.00	-9.30	A
10460.22	58.19	39.40	4.88	45.42	0.50	57.55	68.20	-10.65	P
10460.22	48.33	39.40	4.88	45.42	0.50	47.69	68.20	-20.51	A
* 15690.46	53.75	42.03	6.17	47.91	0.80	54.84	74.00	-19.16	P
* 15690.46	46.93	42.03	6.17	47.91	0.80	48.02	54.00	-5.98	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable - Preamp + Filter, Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11n HT40 TX / CH Low		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.15	63.64	30.98	3.22	47.58	0.30	50.56	74.00	-23.44	P
* 3600.15	58.19	30.98	3.22	47.58	0.30	45.11	54.00	-8.89	A
* 4200.08	60.86	32.18	3.48	48.01	0.34	48.85	74.00	-25.15	P
* 4200.08	55.79	32.18	3.48	48.01	0.34	43.78	54.00	-10.22	A
* 11513.10	59.69	40.90	4.96	46.20	0.60	59.95	74.00	-14.05	P
* 11513.10	49.52	40.90	4.96	46.20	0.60	49.79	54.00	-4.21	A
17263.95	55.24	47.81	6.41	47.84	0.85	62.47	68.20	-5.73	P
17263.95	47.16	47.81	6.41	47.84	0.85	54.39	68.20	-13.81	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.02	64.15	30.98	3.22	47.58	0.30	51.07	74.00	-22.93	P
* 3600.02	59.40	30.98	3.22	47.58	0.30	46.32	54.00	-7.68	A
* 4199.98	61.48	32.18	3.48	48.01	0.34	49.47	74.00	-24.53	P
* 4199.98	55.84	32.18	3.48	48.01	0.34	43.83	54.00	-10.17	A
* 11506.54	64.85	40.90	4.96	46.18	0.60	65.13	74.00	-8.87	P
* 11506.54	52.39	40.90	4.96	46.18	0.60	52.67	54.00	-1.33	A
17262.54	58.23	47.80	6.41	47.84	0.85	65.46	68.20	-2.74	P
17262.54	48.34	47.80	6.41	47.84	0.85	55.57	68.20	-12.63	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11n HT40 TX / CH High		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.07	62.75	30.98	3.22	47.58	0.30	49.67	74.00	-24.33	P
* 3600.07	57.06	30.98	3.22	47.58	0.30	43.98	54.00	-10.02	A
* 4199.97	60.67	32.18	3.48	48.01	0.34	48.66	74.00	-25.34	P
* 4199.97	54.39	32.18	3.48	48.01	0.34	42.38	54.00	-11.62	A
* 11590.00	58.88	40.92	4.97	46.37	0.60	59.00	74.00	-15.00	P
* 11590.00	48.35	40.92	4.97	46.37	0.60	48.47	54.00	-5.53	A
17381.40	55.25	48.30	6.44	47.99	0.88	62.88	68.20	-5.32	P
17381.40	47.09	48.30	6.44	47.99	0.88	54.72	68.20	-13.48	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.02	64.43	30.98	3.22	47.58	0.30	51.35	74.00	-22.65	P
* 3600.02	60.13	30.98	3.22	47.58	0.30	47.05	54.00	-6.95	A
* 4199.96	62.68	32.18	3.48	48.01	0.34	50.67	74.00	-23.33	P
* 4199.96	57.83	32.18	3.48	48.01	0.34	45.82	54.00	-8.18	A
* 11586.88	59.56	40.92	4.97	46.36	0.60	59.69	74.00	-14.31	P
* 11586.88	49.93	40.92	4.97	46.36	0.60	50.06	54.00	-3.94	A
17385.64	56.74	48.32	6.44	47.99	0.88	64.39	68.20	-3.81	P
17385.64	46.89	48.32	6.44	47.99	0.88	54.54	68.20	-13.66	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Lower Sub-Band IEEE 802.11ac VHT80 TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
3599.96	63.68	30.98	3.22	47.58	0.30	50.60	68.20	-17.60	P
3599.96	58.29	30.98	3.22	47.58	0.30	45.21	68.20	-22.99	A
* 4200.04	60.59	32.18	3.48	48.01	0.34	48.58	74.00	-25.42	P
* 4200.04	55.41	32.18	3.48	48.01	0.34	43.40	54.00	-10.60	A
10420.11	60.31	39.40	4.87	45.46	0.50	59.62	68.20	-8.58	P
10420.11	51.90	39.40	4.87	45.46	0.50	51.22	68.20	-16.98	A
* 15630.32	53.91	41.70	6.17	47.88	0.80	54.70	74.00	-19.30	P
* 15630.32	47.53	41.70	6.17	47.88	0.80	48.32	54.00	-5.68	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.02	64.32	30.98	3.22	47.58	0.30	51.24	74.00	-22.76	P
* 3600.02	59.60	30.98	3.22	47.58	0.30	46.52	54.00	-7.48	A
* 4200.08	62.28	32.18	3.48	48.01	0.34	50.27	74.00	-23.73	P
* 4200.08	57.13	32.18	3.48	48.01	0.34	45.12	54.00	-8.88	A
10420.28	60.25	39.40	4.87	45.46	0.50	59.57	68.20	-8.63	P
10420.28	51.94	39.40	4.87	45.46	0.50	51.26	68.20	-16.94	A
* 15630.37	53.92	41.70	6.17	47.88	0.80	54.70	74.00	-19.30	P
* 15630.37	47.29	41.70	6.17	47.88	0.80	48.08	54.00	-5.92	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.



Model	EAP706	Test By	Ted Huang
TEMP & Humidity	28.3°C, 48%	Test Date	2015/04/07
Test Mode	Higher Sub-Band IEEE 802.11ac VHT80 TX / CH Middle		

Measurement Distance at 3m Horizontal polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.06	63.48	30.98	3.22	47.58	0.30	50.40	74.00	-23.60	P
* 3600.06	58.43	30.98	3.22	47.58	0.30	45.35	54.00	-8.65	A
* 4200.03	60.82	32.18	3.48	48.01	0.34	48.81	74.00	-25.19	P
* 4200.03	54.19	32.18	3.48	48.01	0.34	42.18	54.00	-11.82	A
* 11549.00	58.29	40.91	4.97	46.28	0.60	58.49	74.00	-15.51	P
* 11549.00	48.36	40.91	4.97	46.28	0.60	48.56	54.00	-5.44	A
17320.60	54.79	48.05	6.43	47.91	0.86	62.22	68.20	-5.98	P
17320.60	47.03	48.05	6.43	47.91	0.86	54.46	68.20	-13.74	A
Measurement Distance at 3m Vertical polarity									
Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
* 3600.00	63.96	30.98	3.22	47.58	0.30	50.88	74.00	-23.12	P
* 3600.00	49.81	30.98	3.22	47.58	0.30	36.73	54.00	-17.27	A
* 4200.01	61.35	32.18	3.48	48.01	0.34	49.35	74.00	-24.65	P
* 4200.01	56.07	32.18	3.48	48.01	0.34	44.06	54.00	-9.94	A
* 11545.40	57.25	40.91	4.97	46.27	0.60	57.45	74.00	-16.55	P
* 11545.40	48.23	40.91	4.97	46.27	0.60	48.43	54.00	-5.57	A
17338.60	56.15	48.12	6.43	47.93	0.87	63.63	68.20	-4.57	P
17338.60	47.28	48.12	6.43	47.93	0.87	54.77	68.20	-13.43	A

REMARK:

1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss
2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
3. The result basic equation calculation is as follow:
Level = Reading + AF + Cable – Preamp + Filter , Margin = Level-Limit
4. The other emission levels were 20dB below the limit
5. The test limit distance is 3M limit.
6. * means: the frequency is under 15.205 restricted bands.

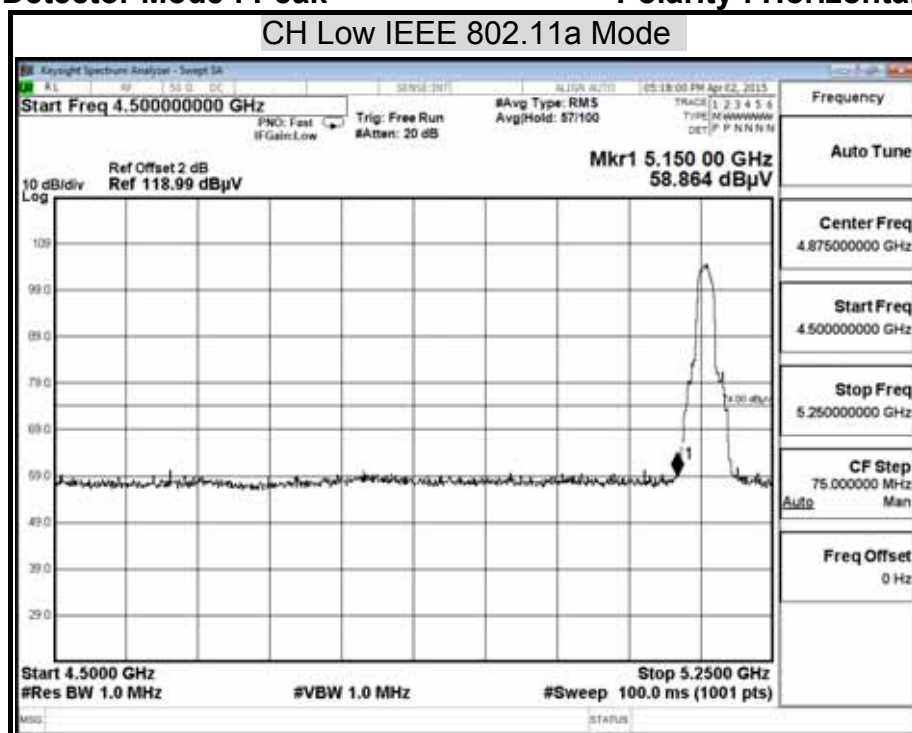


Restricted Band Edges

Higher Sub-Band

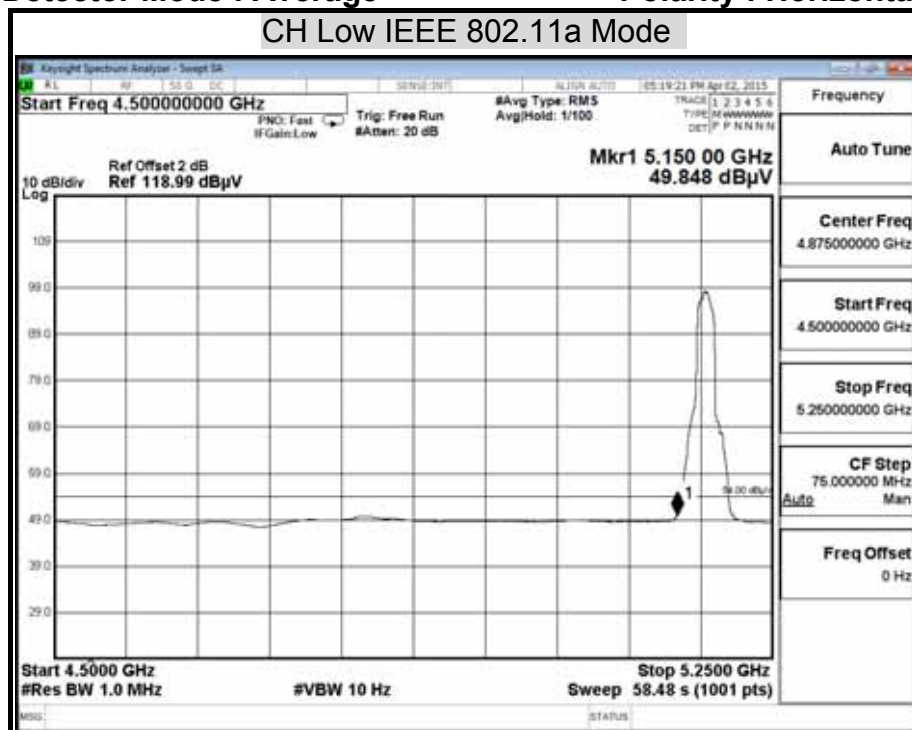
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

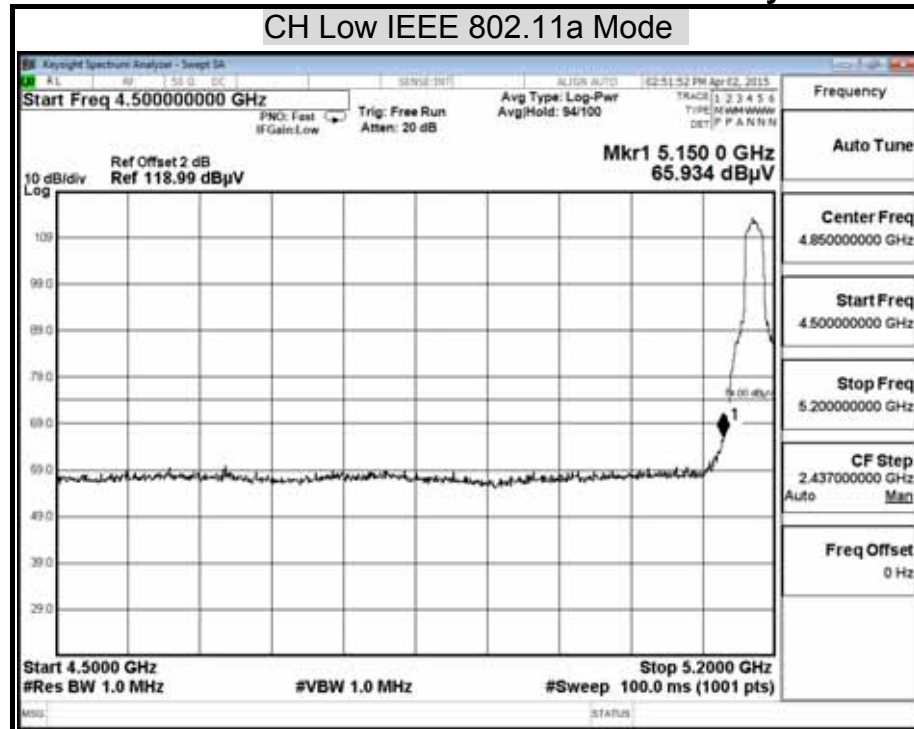
Polarity : Horizontal





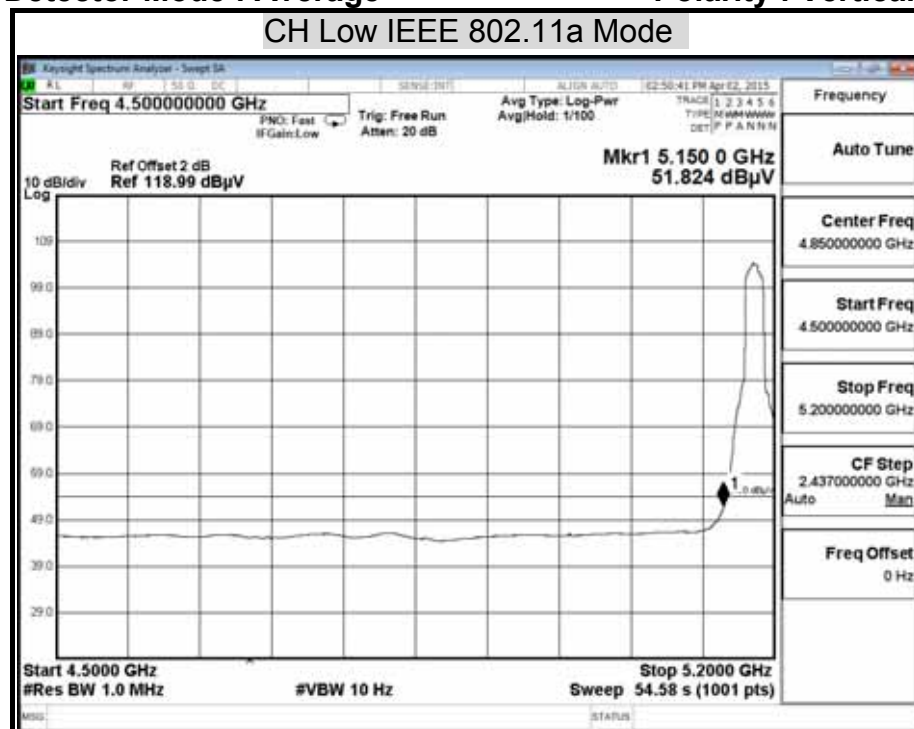
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

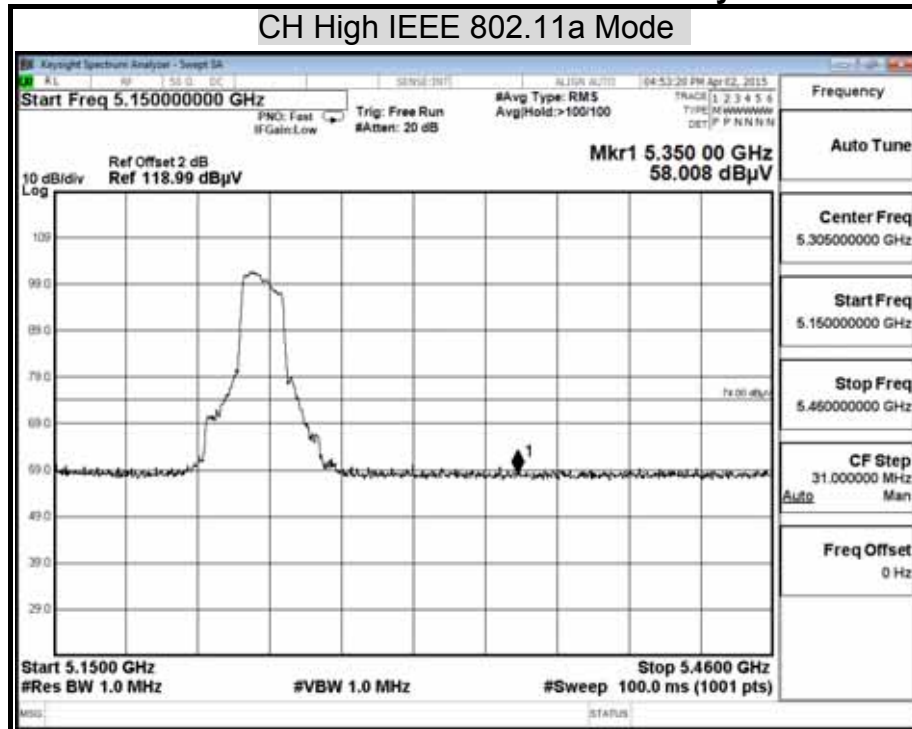
Polarity : Vertical





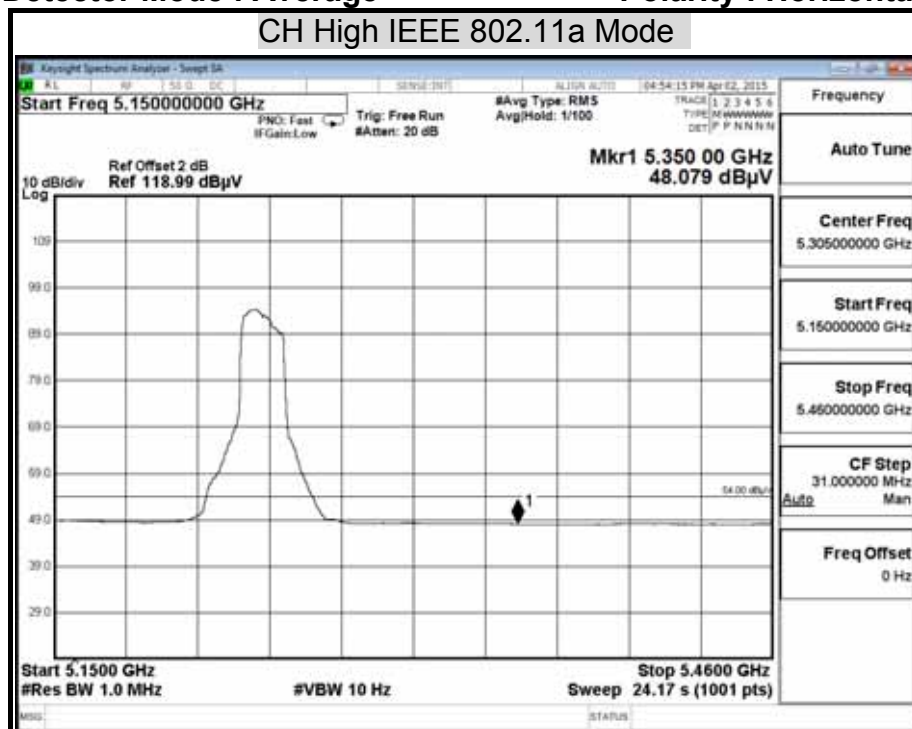
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

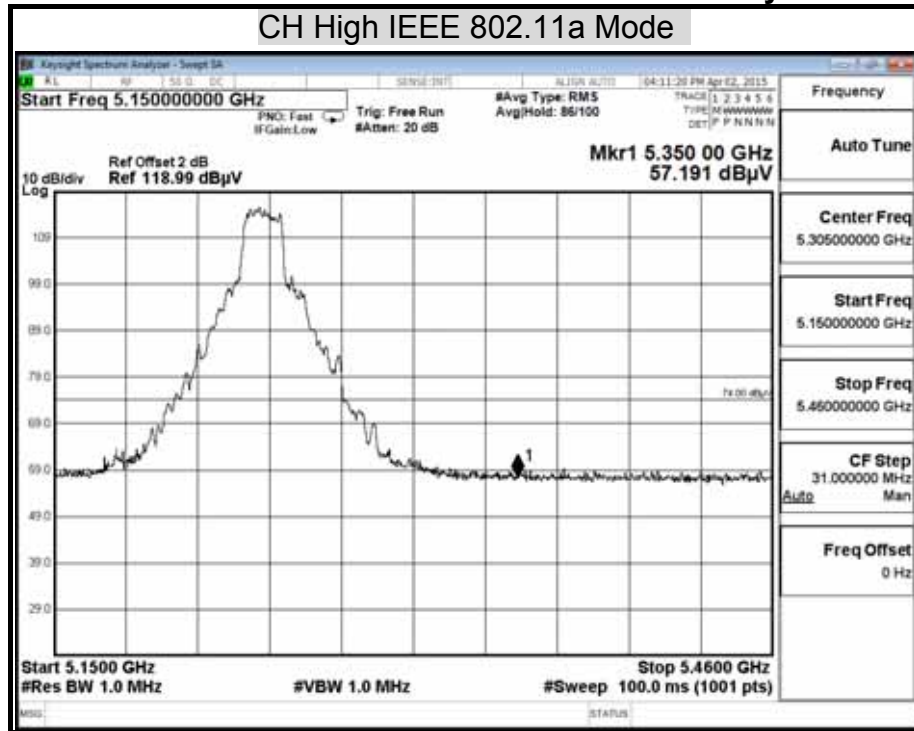
Polarity : Horizontal





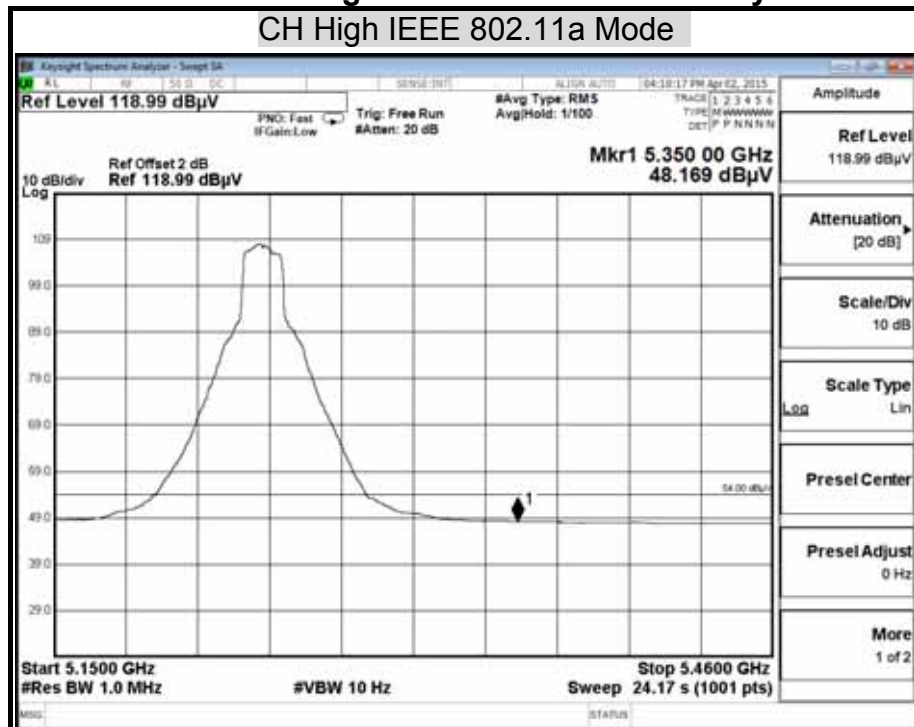
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

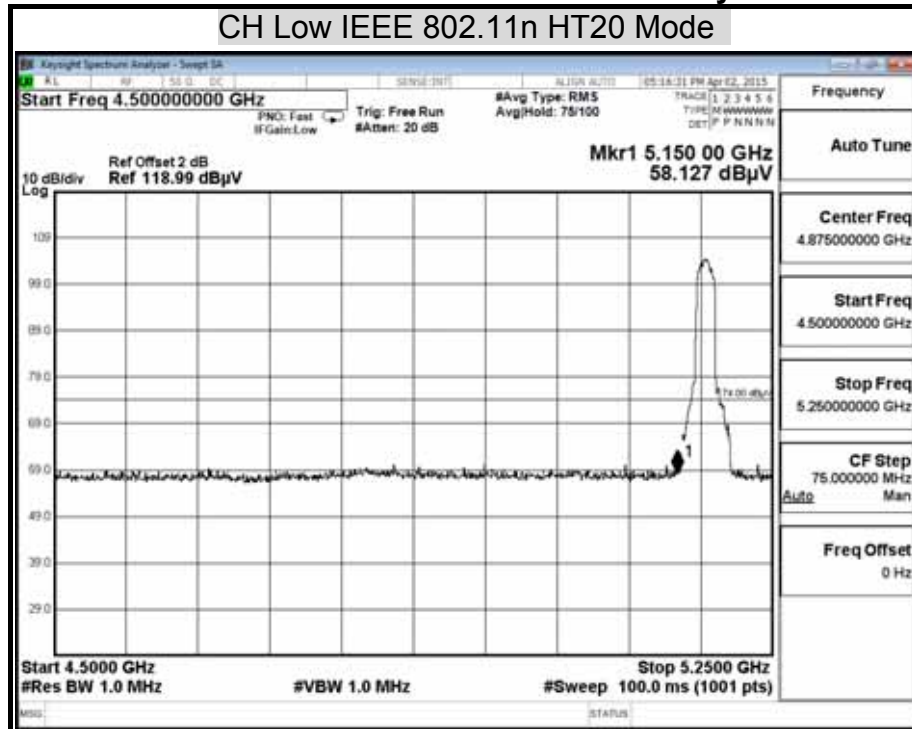
Polarity : Vertical





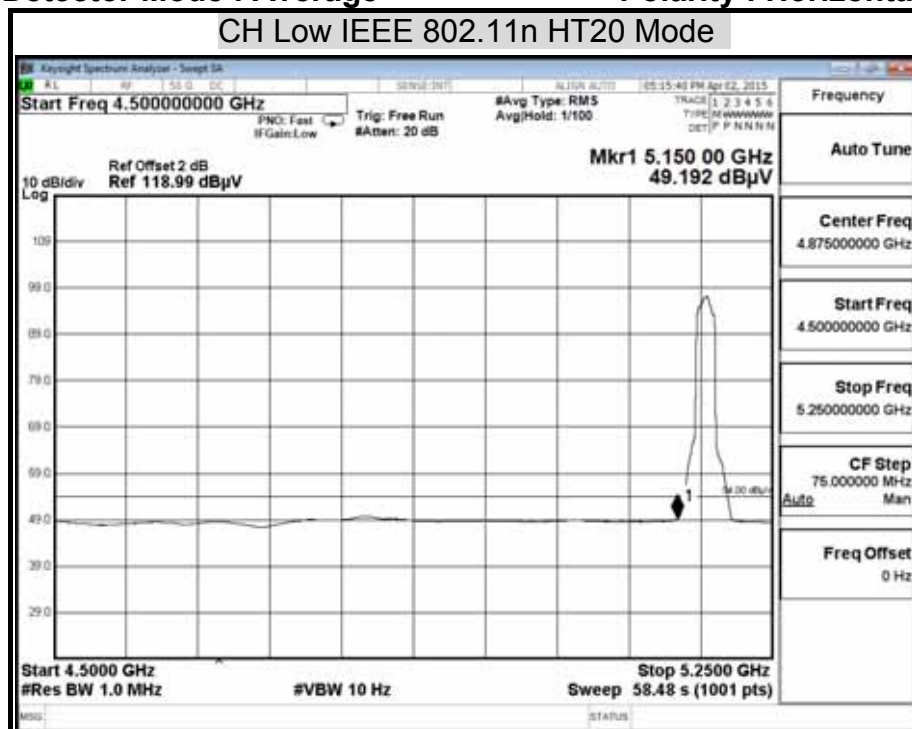
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

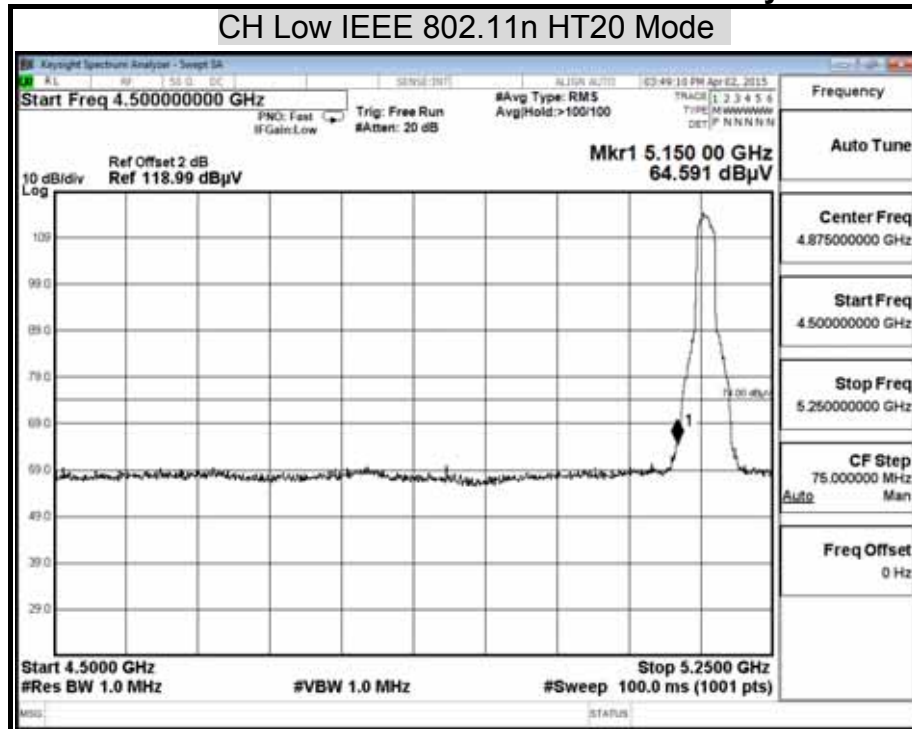
Polarity : Horizontal





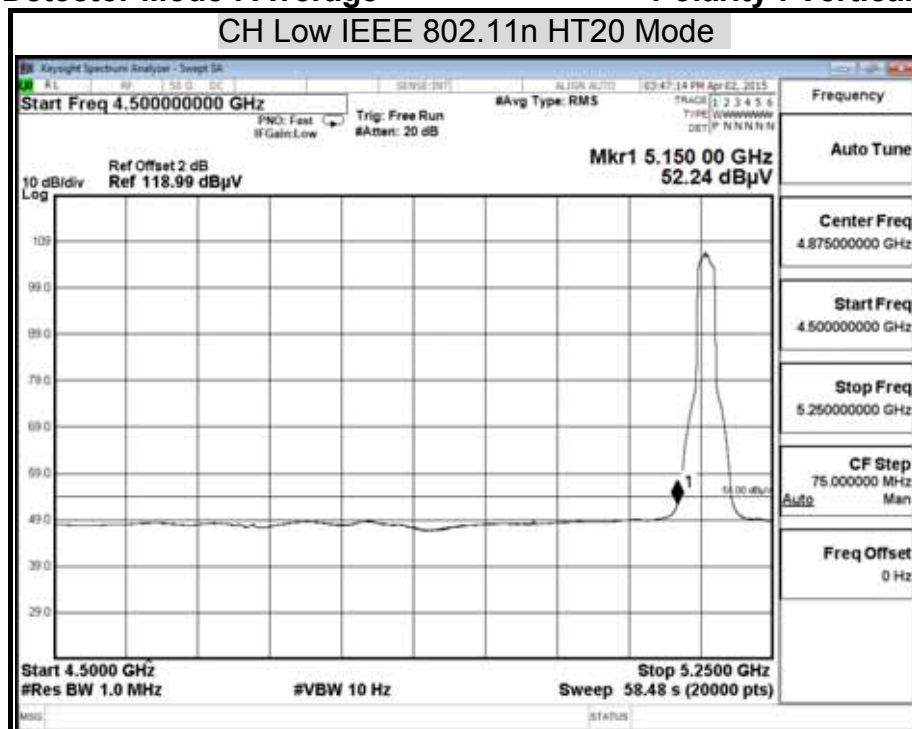
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

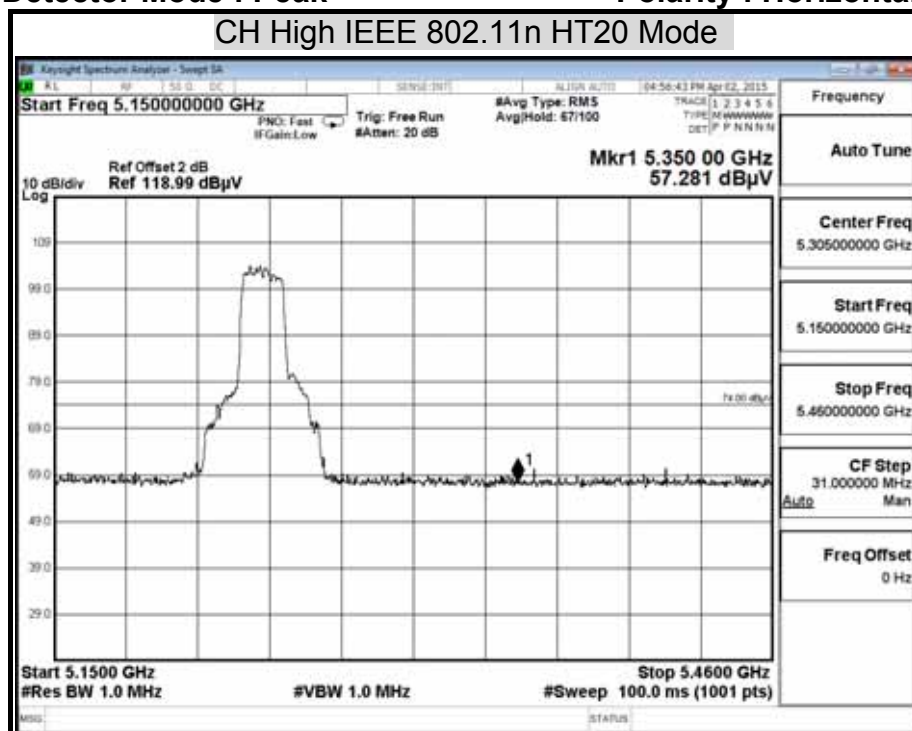
Polarity : Vertical





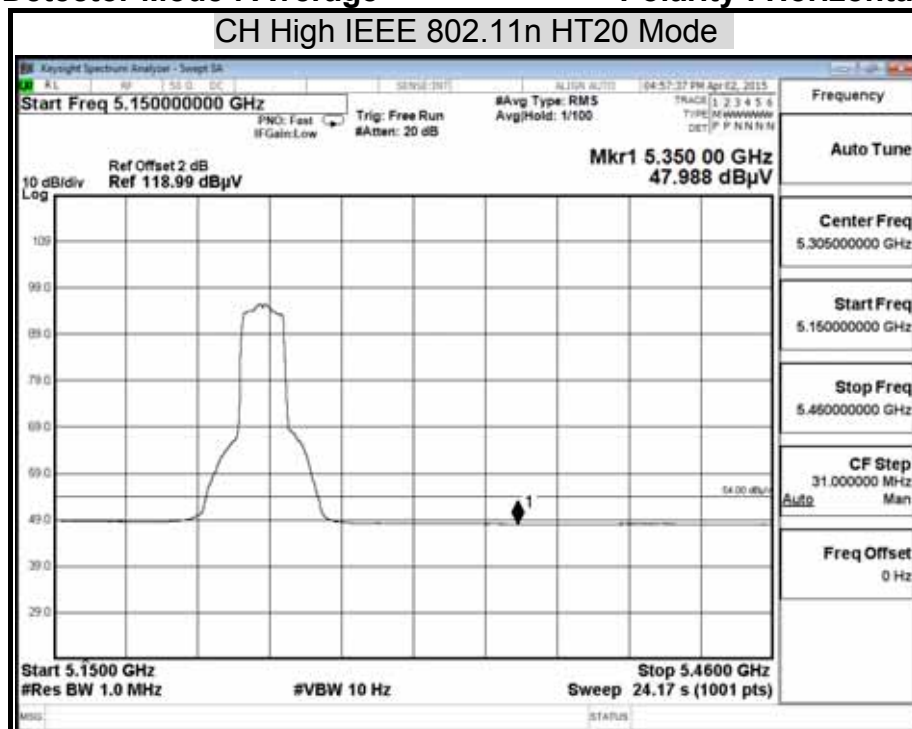
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

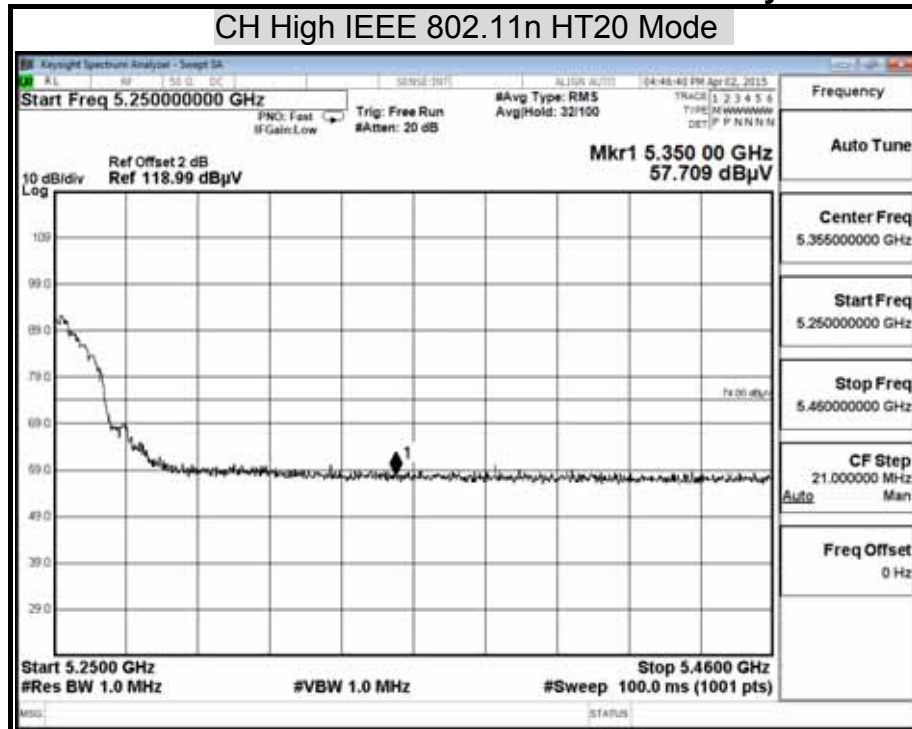
Polarity : Horizontal





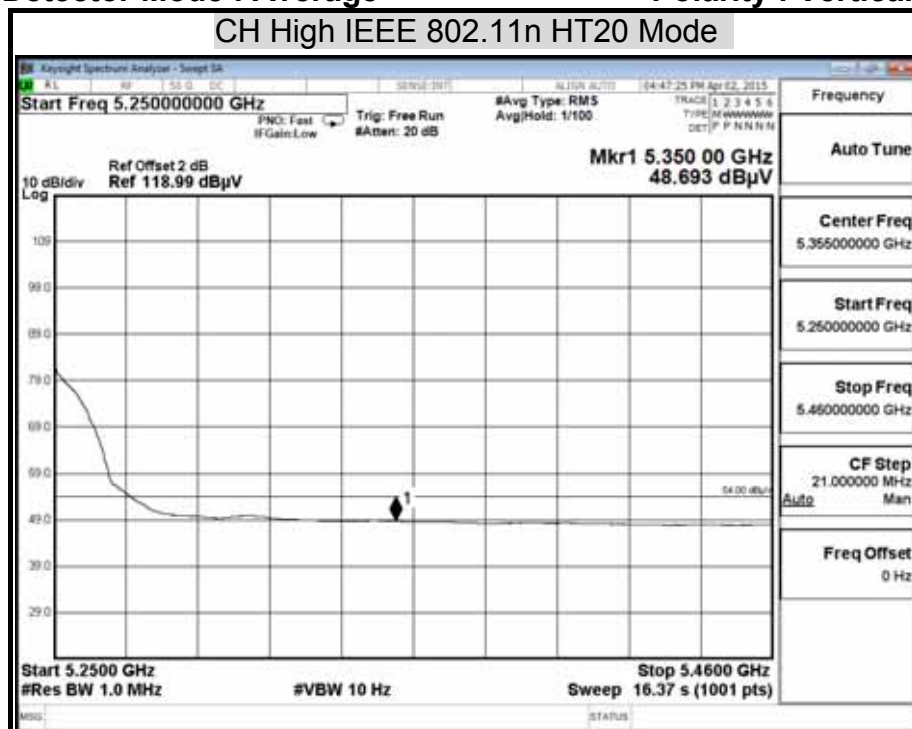
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

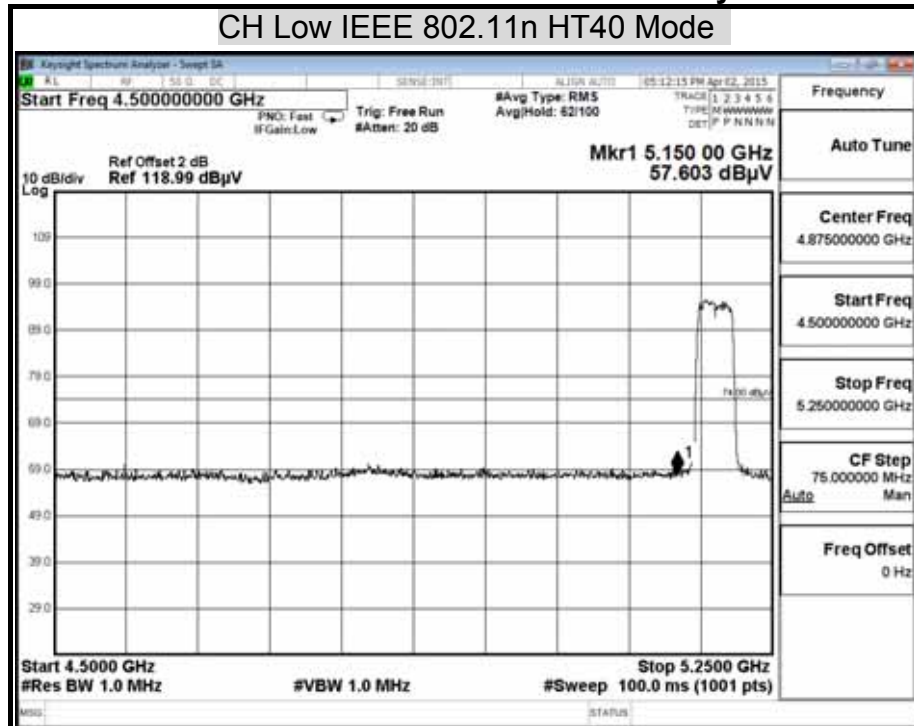
Polarity : Vertical





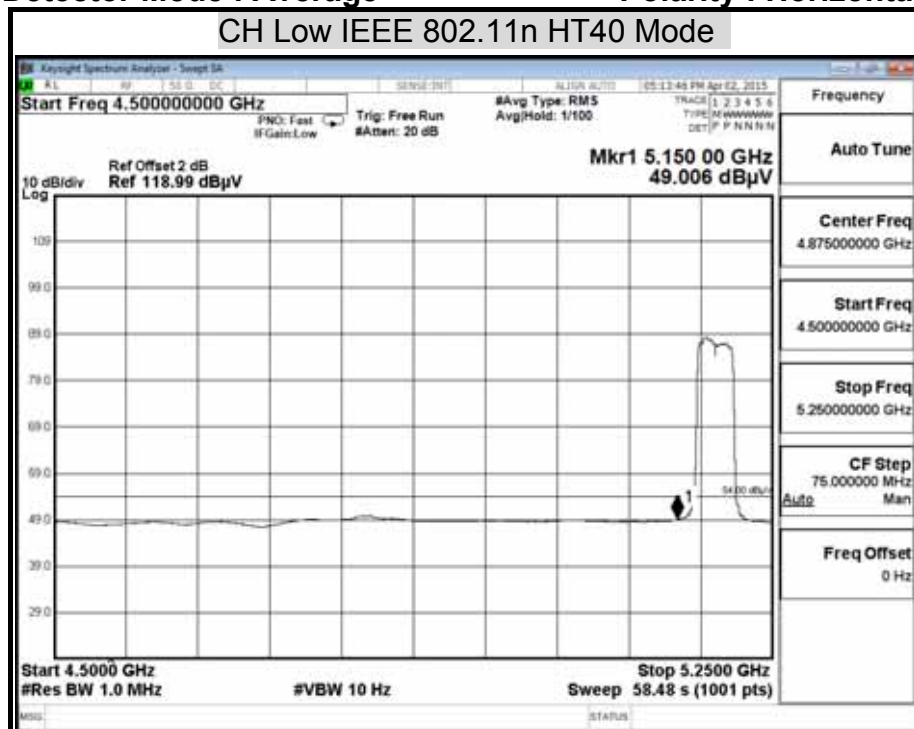
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

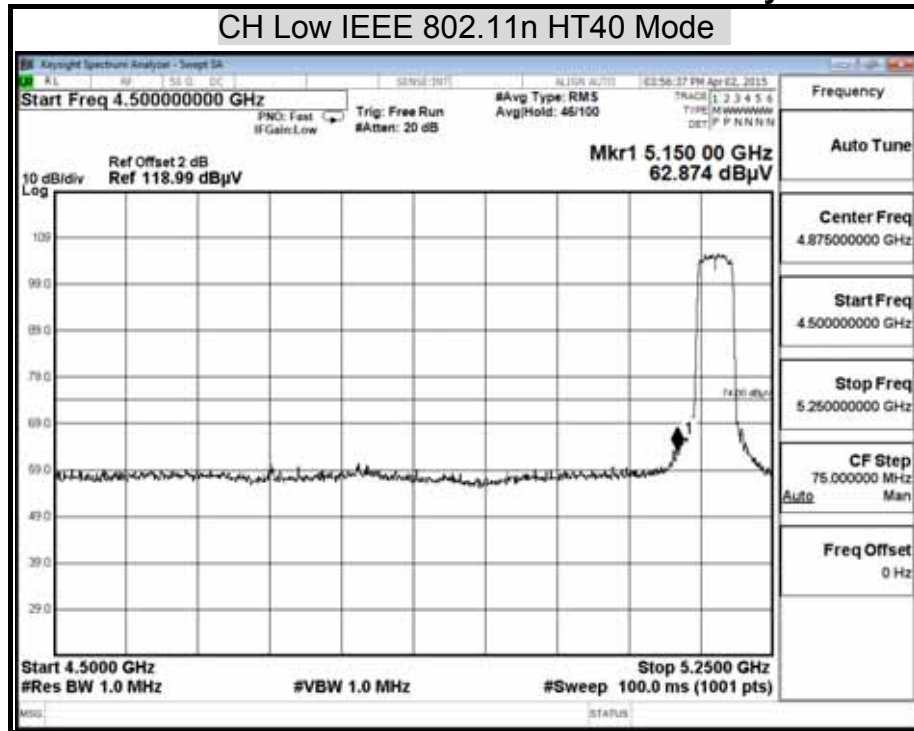
Polarity : Horizontal





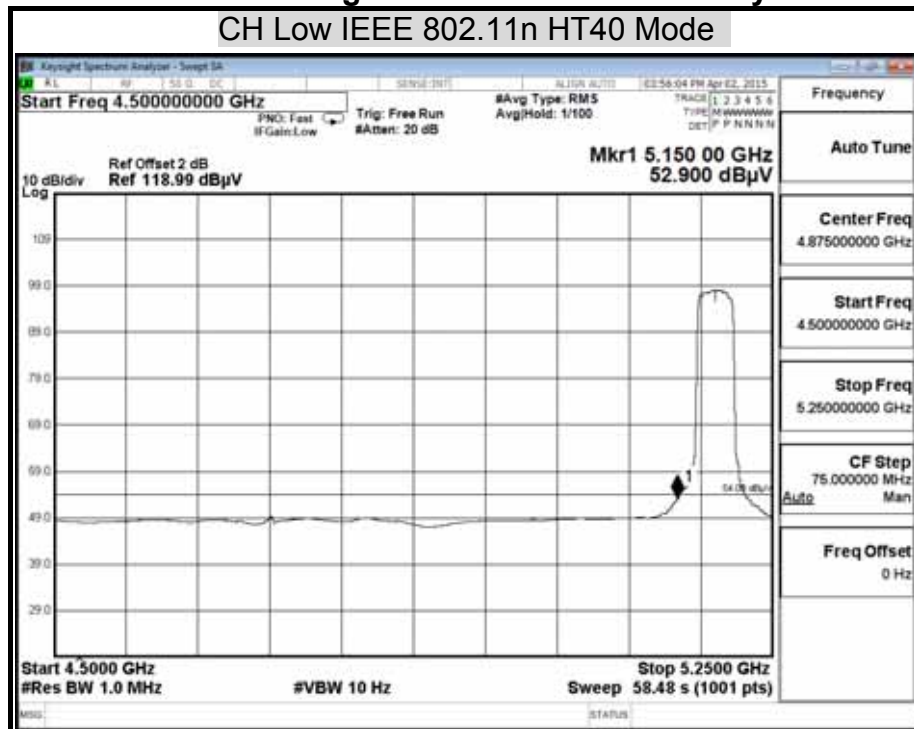
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

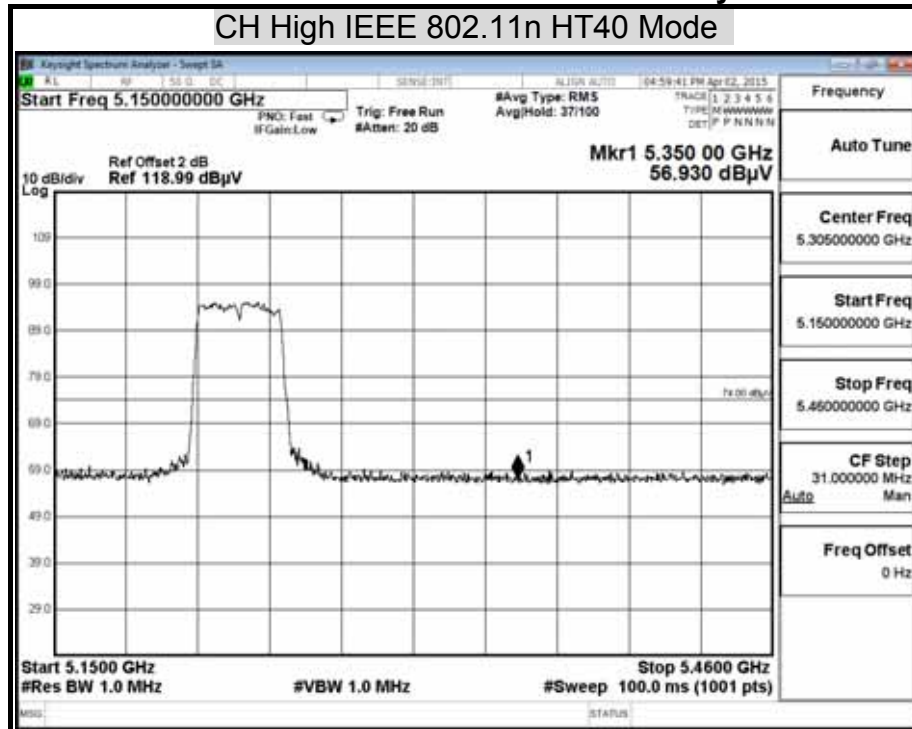
Polarity : Vertical





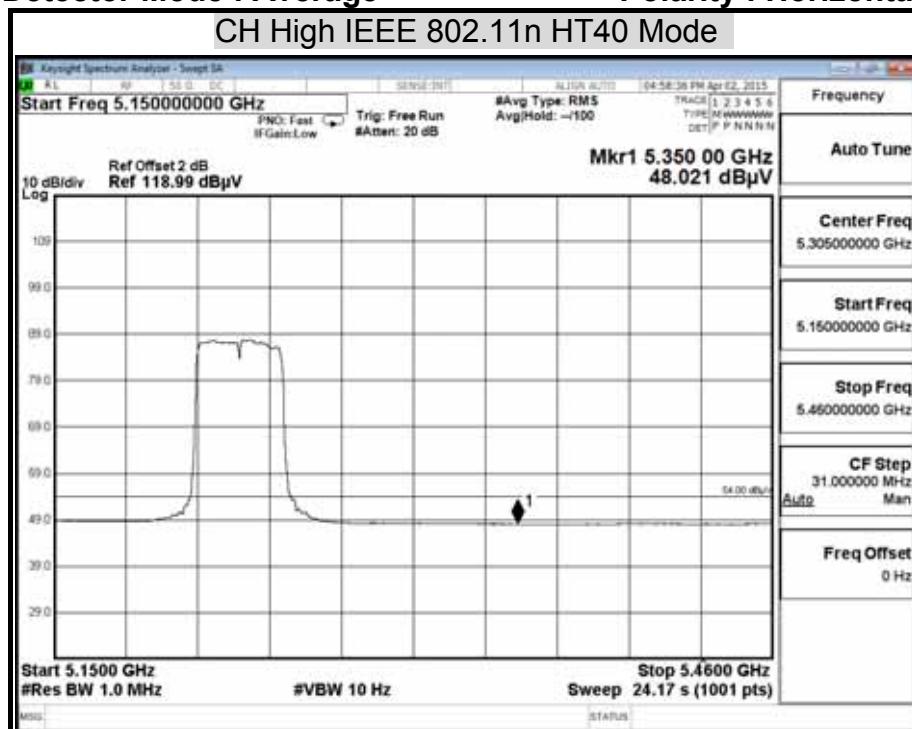
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

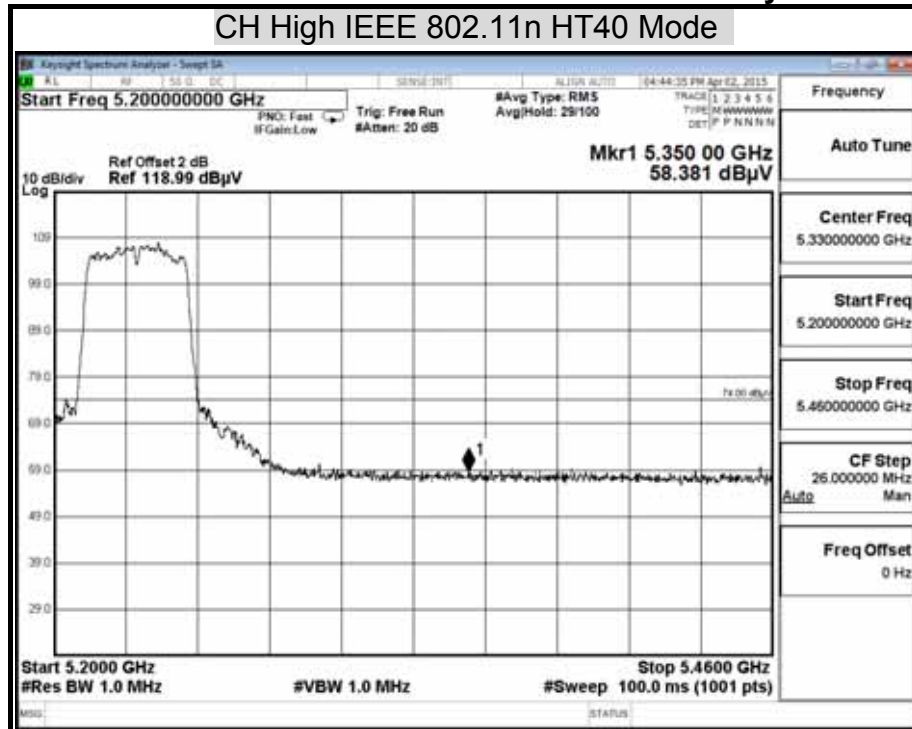
Polarity : Horizontal





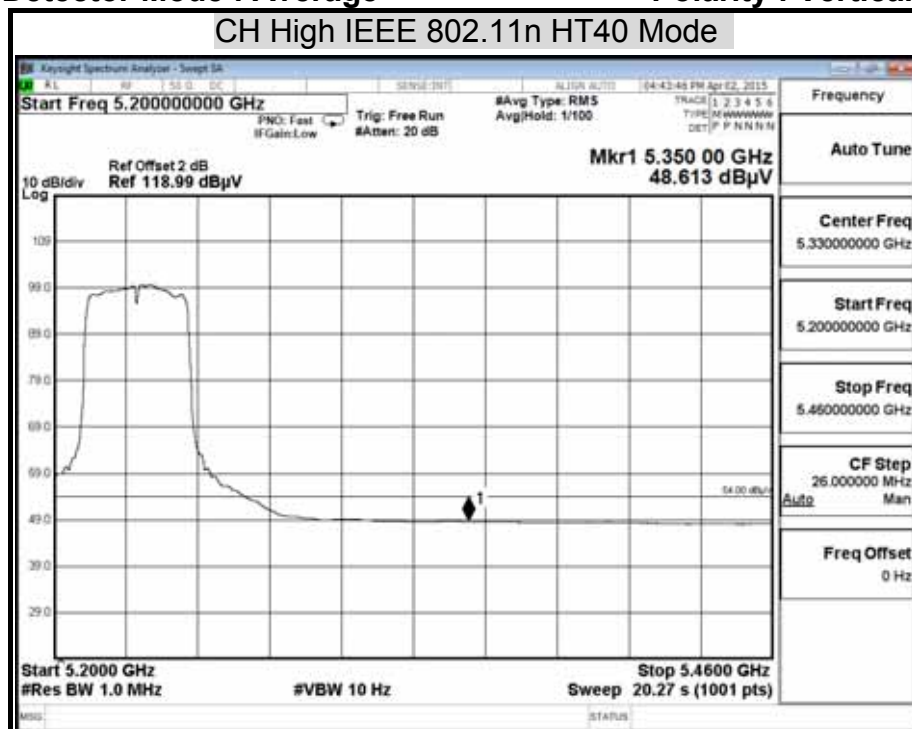
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

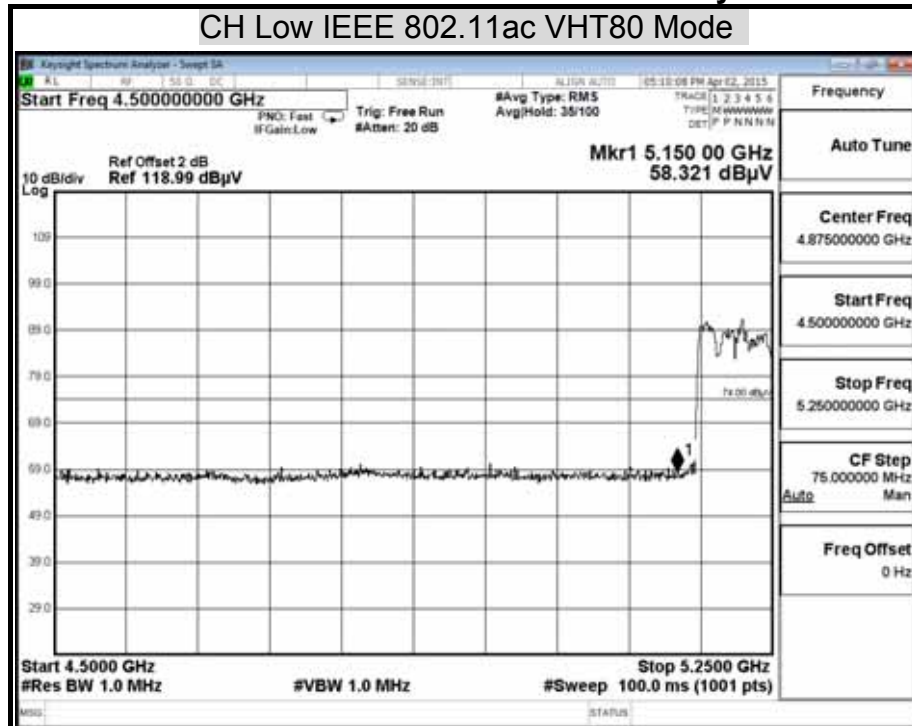
Polarity : Vertical





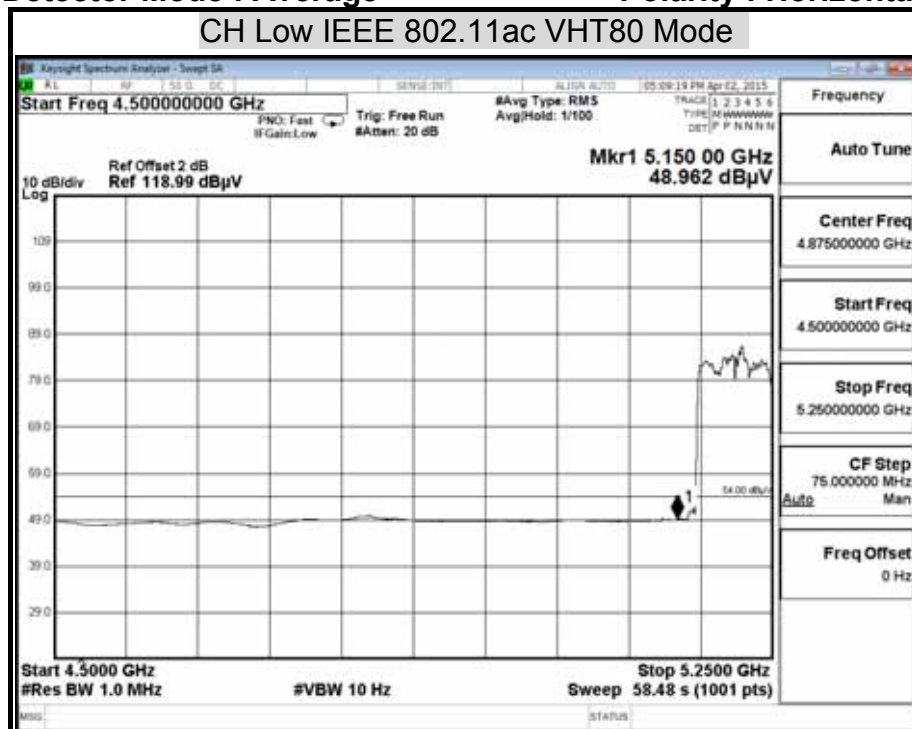
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

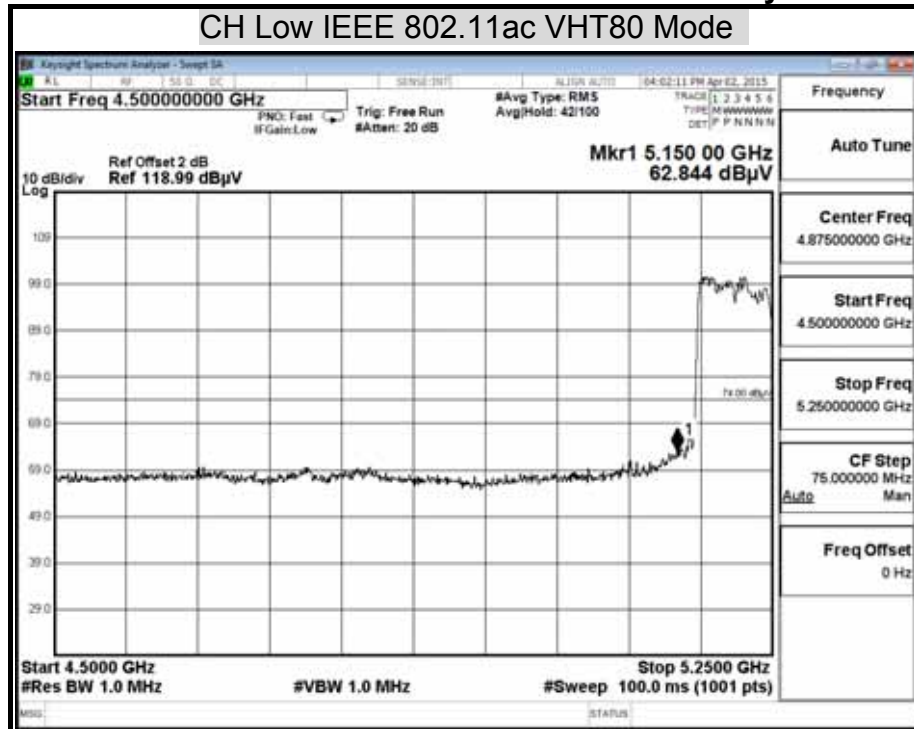
Polarity : Horizontal





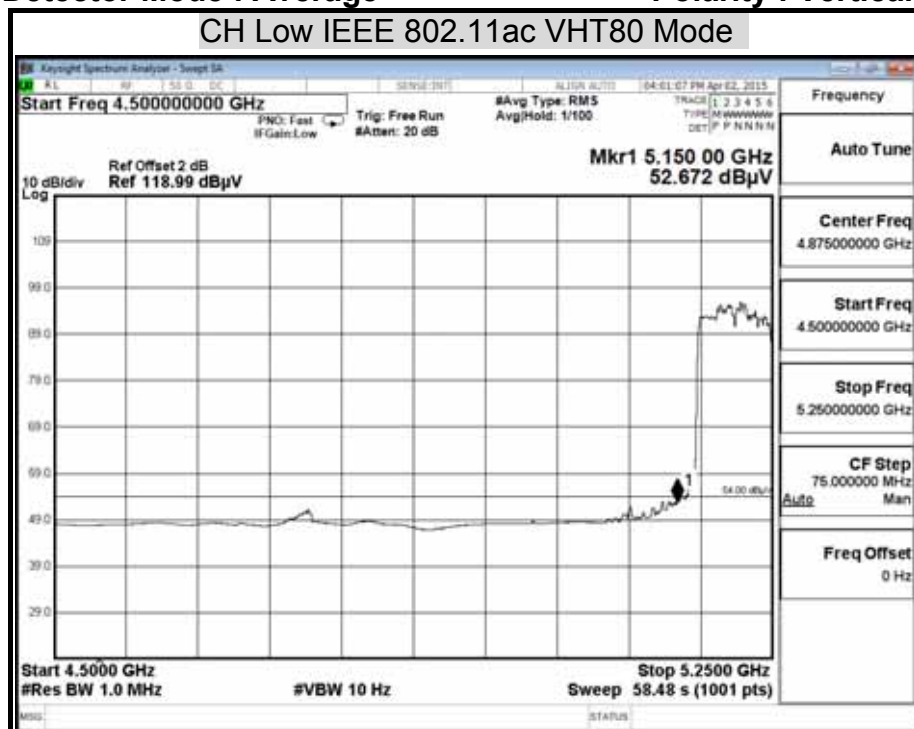
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

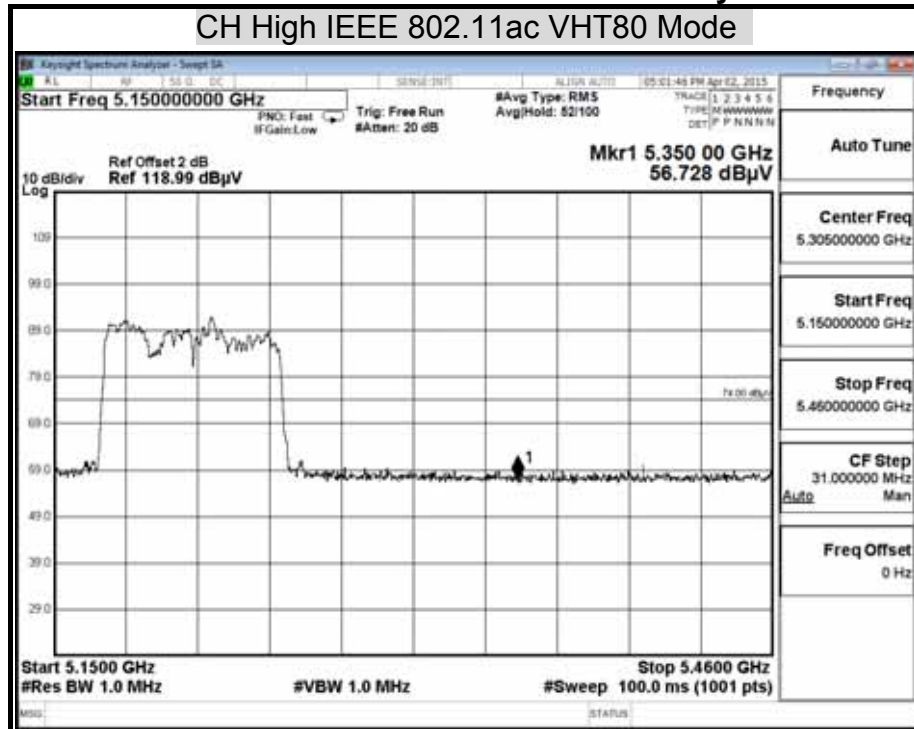
Polarity : Vertical





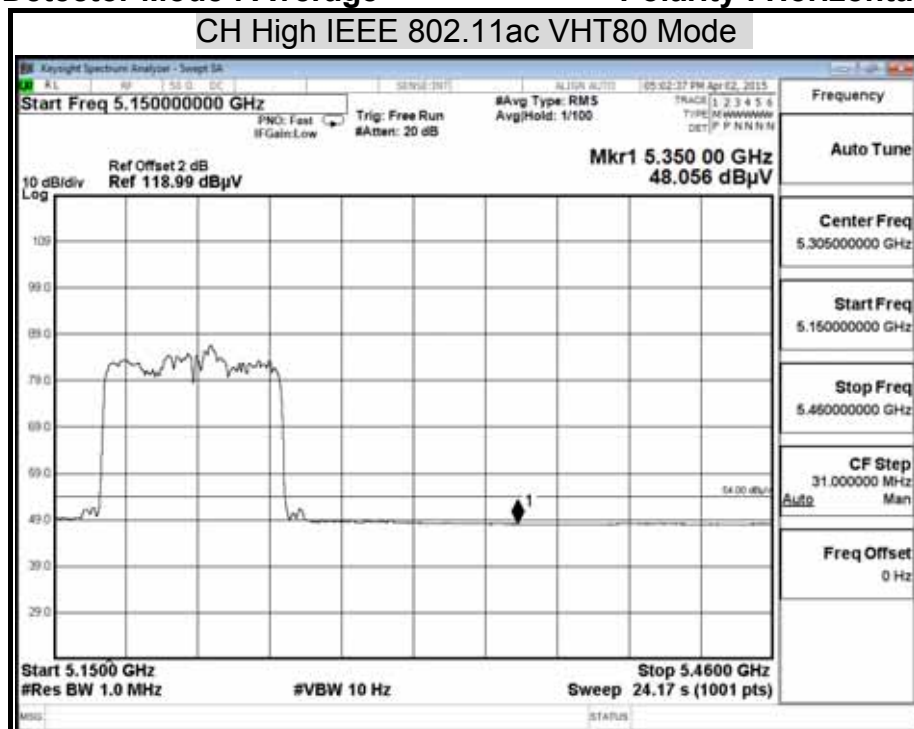
Detector Mode : Peak

Polarity : Horizontal



Detector Mode : Average

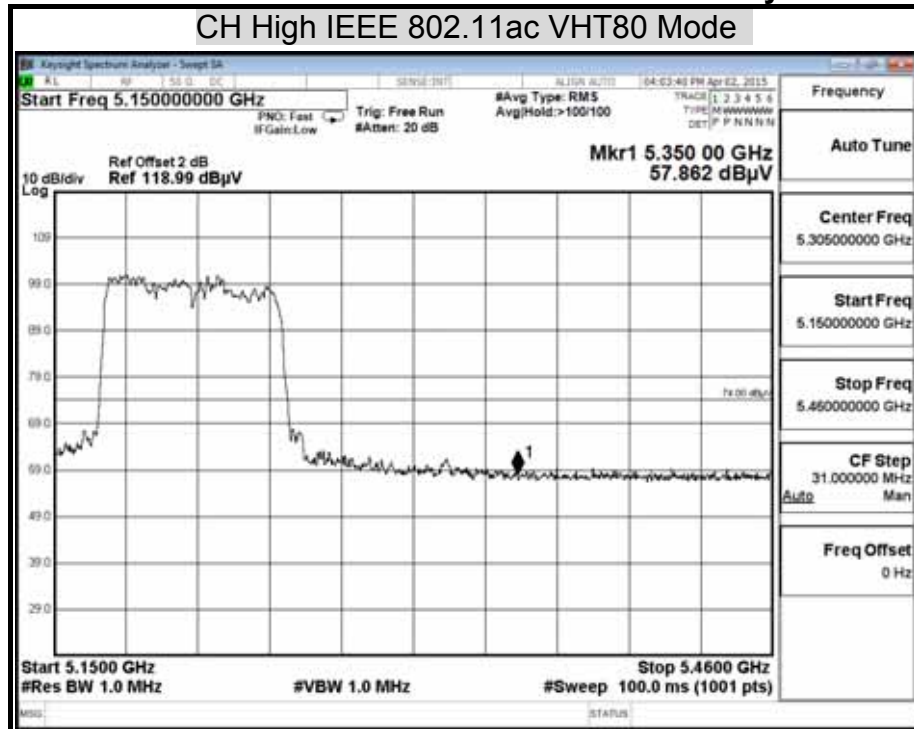
Polarity : Horizontal





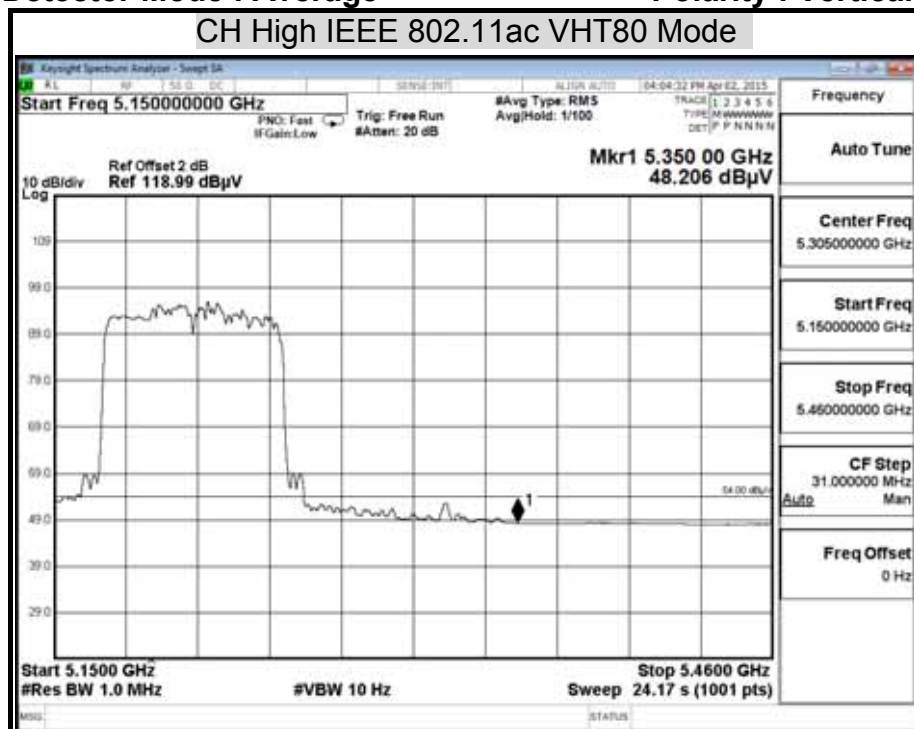
Detector Mode : Peak

Polarity : Vertical



Detector Mode : Average

Polarity : Vertical





7.8 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dB μ v)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

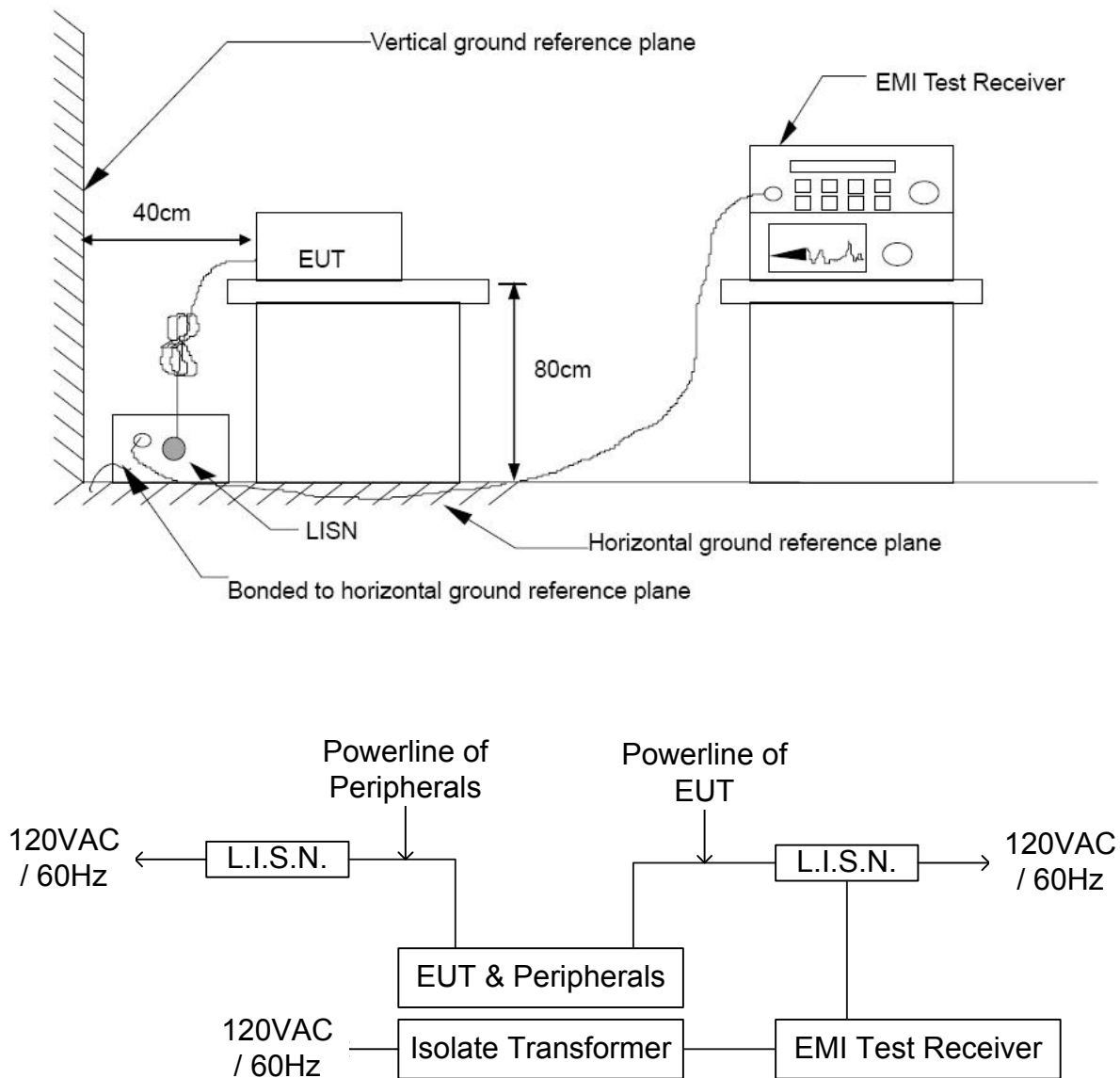
TEST EQUIPMENT

Conducted Emission room #1				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N.	SCHWARZBECK	NNLK 8130	8130124	OCT. 19, 2015
	Rohde & Schwarz	ESH 3-Z5	893540/015	APR. 13, 2016
	Rohde & Schwarz	ESCS 30	100348	DEC. 08, 2015
TEST RECEIVER	CCS	BNC50	11	DEC. 04, 2015
TYPE N COAXIAL CABLE	SOLAR	9208-1	041037	APR. 01, 2016
R.F.Current Probe	SCHAFFNER	CVP 2200	15984	APR. 01, 2016
Capacitive Voltage Probe	SCHWARZBECK	NNLK 8130	8130124	OCT. 19, 2015
Test S/W	e-3 (5.04211c) R&S (2.27)			

Remark: Each piece of equipment is scheduled for calibration once a year.



TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

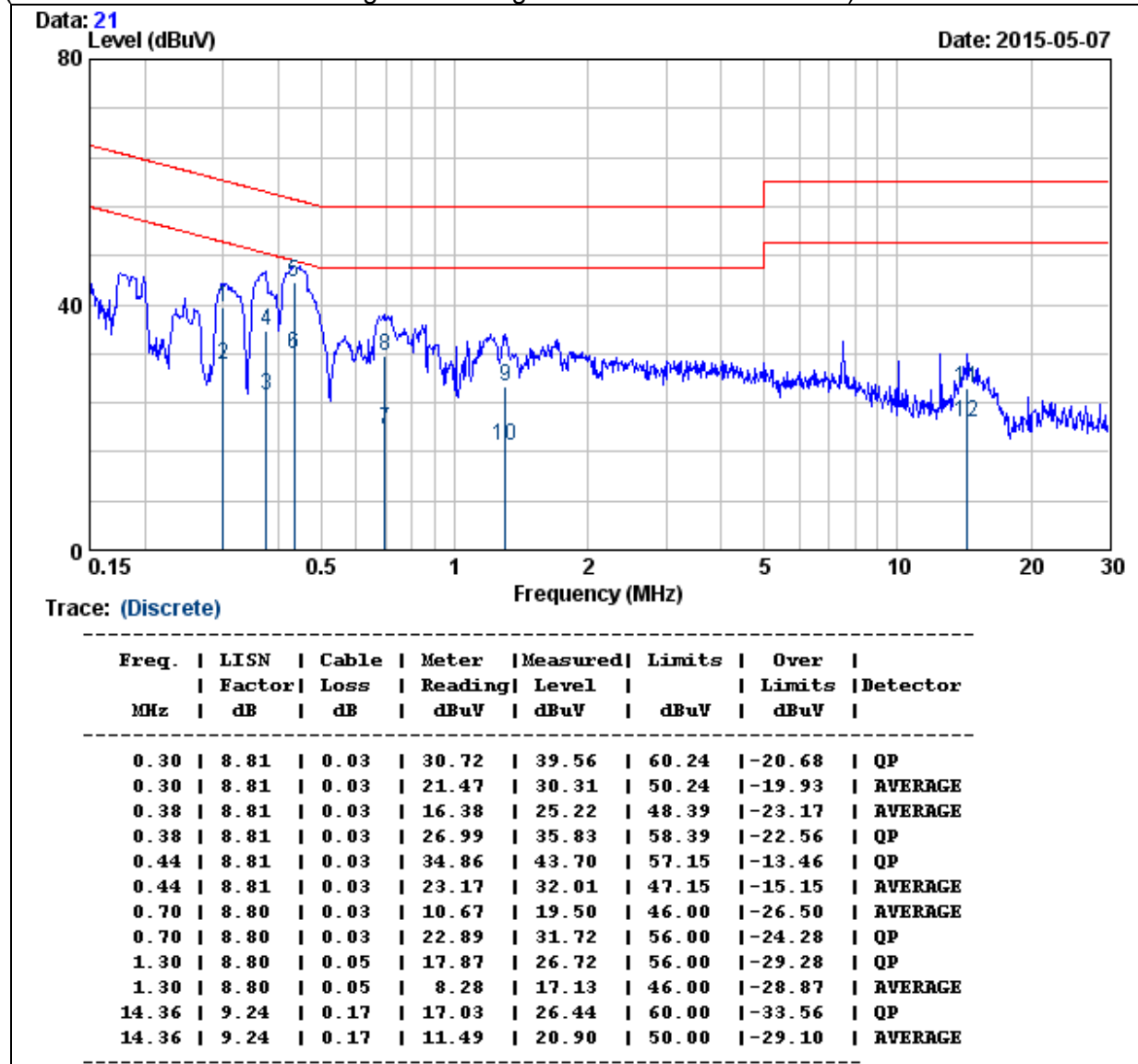


TEST RESULTS

Model No.	EAP706	Test Mode	Normal Operation
Environmental Conditions	26°C, 56% RH	Resolution Bandwidth	9 kHz
Tested by	Vis Liang		

LINE

(The chart below shows the highest readings taken from the final data.)



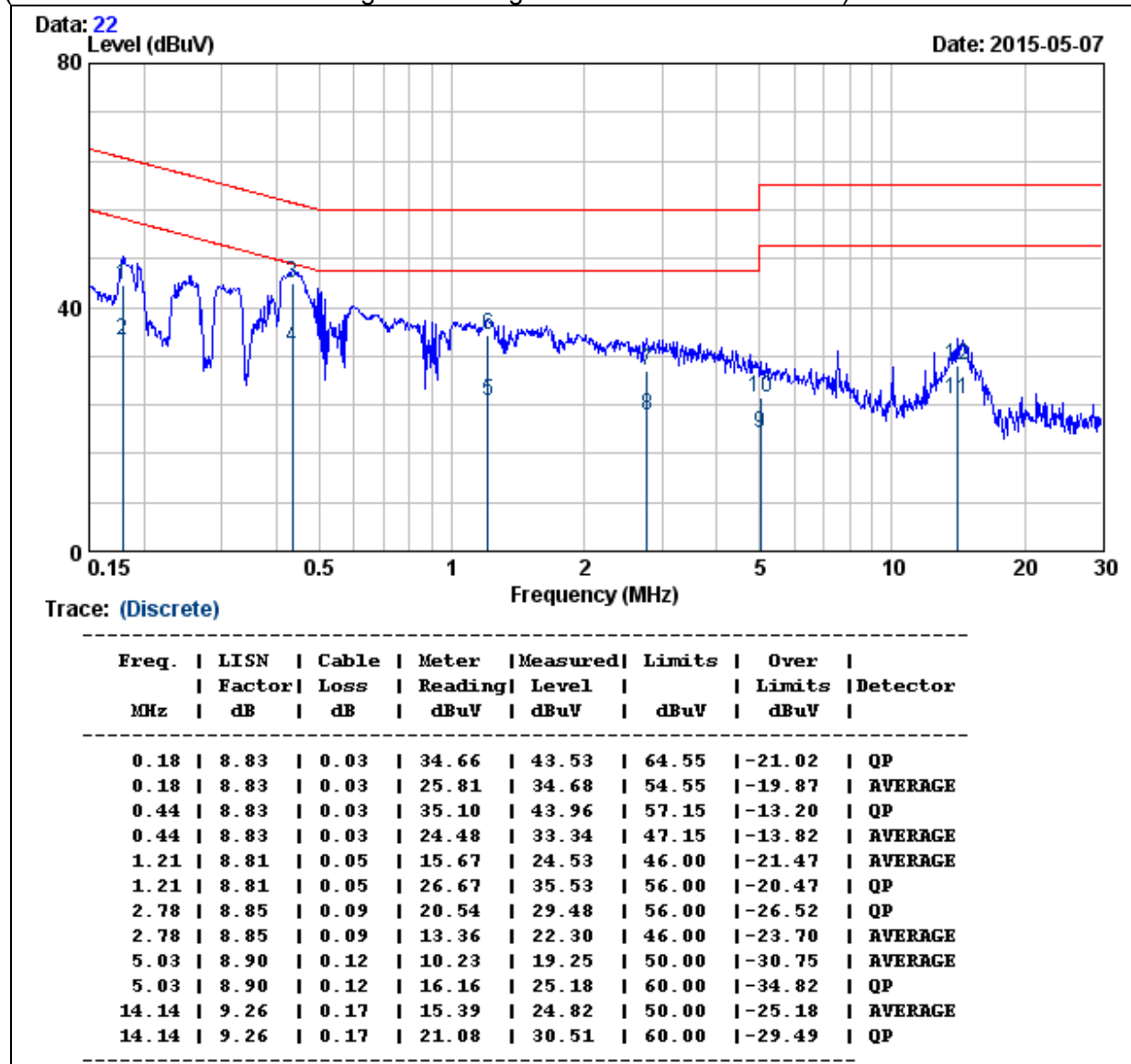
REMARKS : 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)
2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)



Model No.	EAP706	Test Mode	Normal Operation
Environmental Conditions	26°C, 56% RH	Resolution Bandwidth	9 kHz
Tested by	Vis Liang		

LINE

(The chart below shows the highest readings taken from the final data.)



REMARKS : 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)

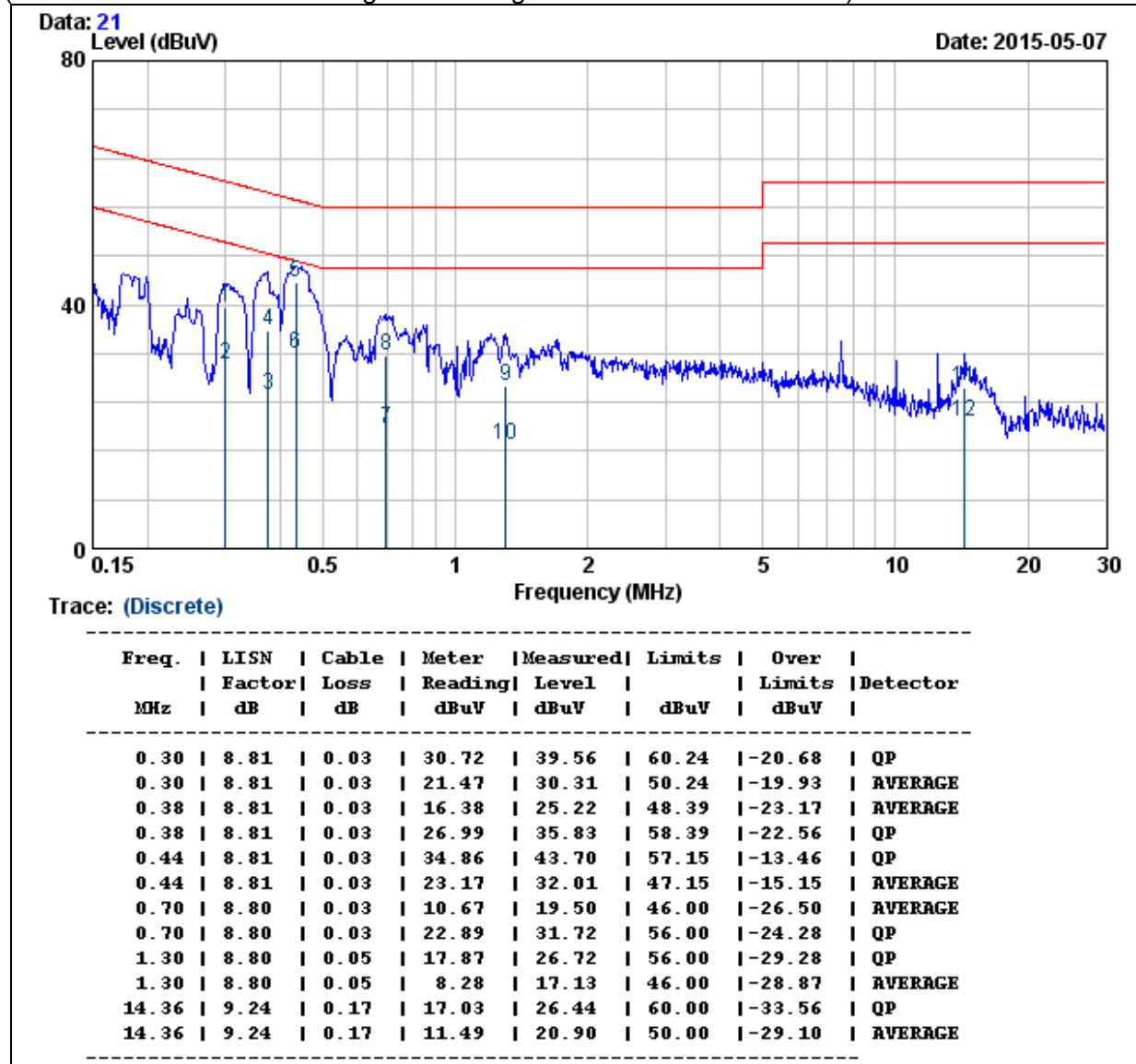
2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)



Model No.	EAP706	Test Mode	POE Mode
Environmental Conditions	26°C, 56% RH	Resolution Bandwidth	9 kHz
Tested by	Vis Liang		

LINE

(The chart below shows the highest readings taken from the final data.)



REMARKS : 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)

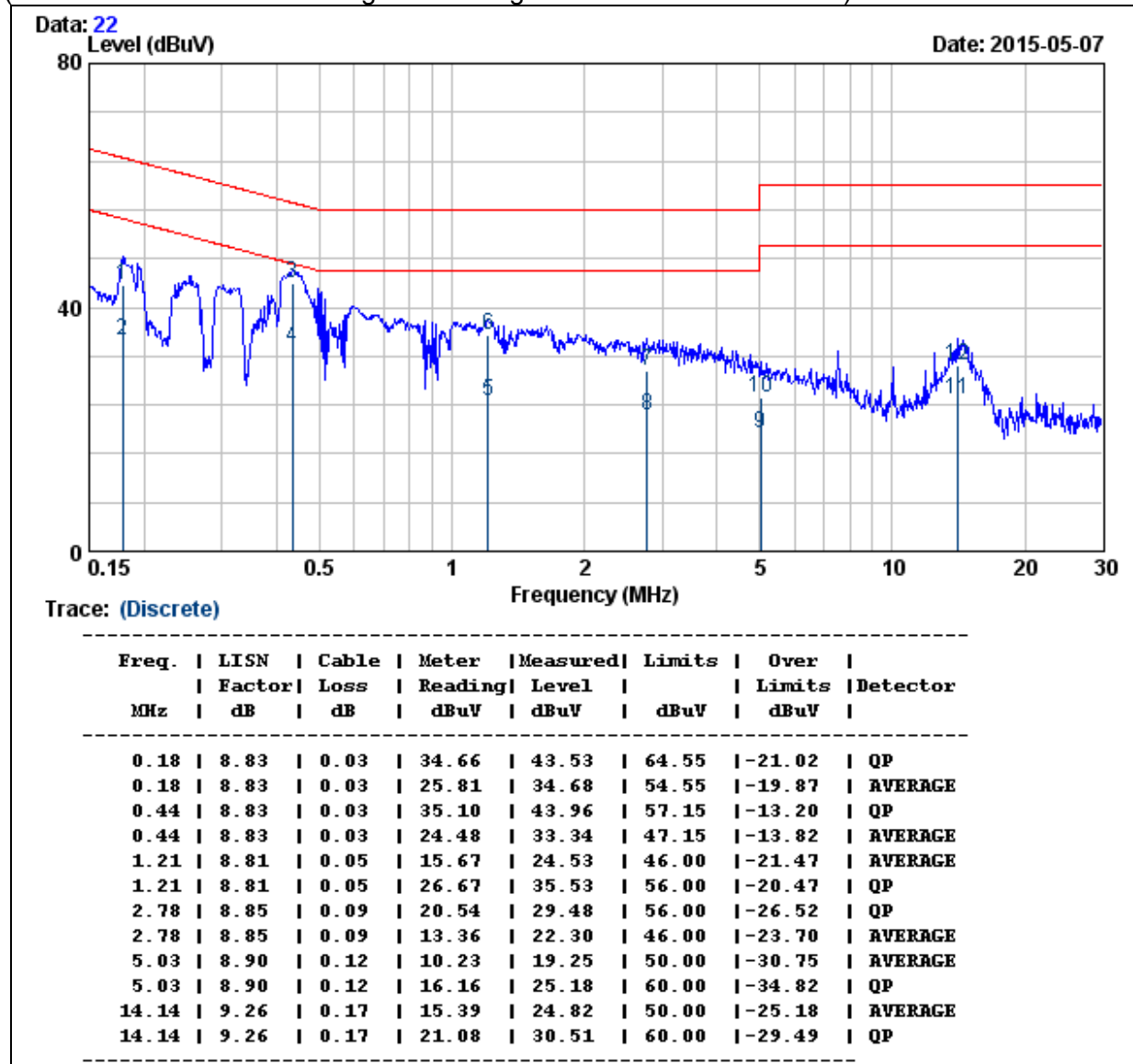
2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)



Model No.	EAP706	Test Mode	POE Mode
Environmental Conditions	26°C, 56% RH	Resolution Bandwidth	9 kHz
Tested by	Vis Liang		

LINE

(The chart below shows the highest readings taken from the final data.)



REMARKS : 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)

2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)



7.9 FREQUENCY STABILITY

LIMITS

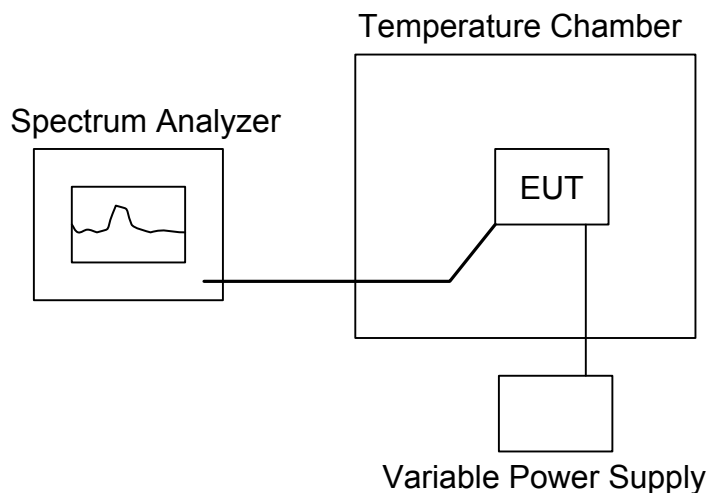
§ 15.407 (g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	JAN. 23, 2016
Temp./Humidity Chamber	K.SON	THS-M1	242	AUG. 08, 2015

Remark: Each piece of equipment is scheduled for calibration once a year

TEST SETUP



TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.



TEST RESULTS

Test mode: IEEE 802.11a mode / 5150 ~ 5250 MHz

CH Low / Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5180.006540	5150-5250	PASS
40		5180.007250	5150~5250	
30		5180.007930	5150~5250	
20		5180.007880	5150~5250	
10		5180.007740	5150~5250	
0		5180.008360	5150~5250	
-10		5180.008490	5150~5250	
-20		5180.008530	5150~5250	
20	108	5180.007520	5150~5250	PASS
	120	5180.007790	5150~5250	
	132	5180.008360	5150~5250	

CH Middle / Operating Frequency: 5200 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5200.008930	5150~5250	PASS
40		5200.009840	5150~5250	
30		5200.009460	5150~5250	
20		5200.007160	5150~5250	
10		5200.008330	5150~5250	
0		5200.008840	5150~5250	
-10		5200.008990	5150~5250	
-20		5200.009460	5150~5250	
20	108	5200.010250	5150~5250	PASS
	120	5200.009460	5150~5250	
	132	5200.008440	5150~5250	



CH High / Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5240.009690	5150~5250	PASS
40		5240.008410	5150~5250	
30		5240.008010	5150~5250	
20		5240.008330	5150~5250	
10		5240.008490	5150~5250	
0		5240.009320	5150~5250	
-10		5240.007820	5150~5250	
-20		5240.007690	5150~5250	
20	108	5240.008160	5150~5250	PASS
	120	5240.008830	5150~5250	
	132	5240.009450	5150~5250	

Test mode: IEEE 802.11a mode / 5725 ~ 5850 MHz

CH Low / Operating Frequency: 5745 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5745.007450	5725~5850	PASS
40		5745.008460	5725~5850	
30		5745.008130	5725~5850	
20		5745.009350	5725~5850	
10		5745.009950	5725~5850	
0		5745.008460	5725~5850	
-10		5745.010360	5725~5850	
-20		5745.009810	5725~5850	
20	108	5745.007820	5725~5850	PASS
	120	5745.009880	5725~5850	
	132	5745.009940	5725~5850	



CH Middle / Operating Frequency: 5785 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5785.008460	5725~5850	PASS
40		5785.008230	5725~5850	
30		5785.009360	5725~5850	
20		5785.009050	5725~5850	
10		5785.009450	5725~5850	
0		5785.008930	5725~5850	
-10		5785.009750	5725~5850	
-20		5785.009460	5725~5850	
20	108	5785.008840	5725~5850	PASS
	120	5785.009830	5725~5850	
	132	5785.009310	5725~5850	

CH High / Operating Frequency: 5825 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5825.008420	5725~5850	PASS
40		5825.009040	5725~5850	
30		5825.007900	5725~5850	
20		5825.010450	5725~5850	
10		5825.008460	5725~5850	
0		5825.008040	5725~5850	
-10		5825.007930	5725~5850	
-20		5825.007430	5725~5850	
20	108	5825.007730	5725~5850	PASS
	120	5825.008660	5725~5850	
	132	5825.009080	5725~5850	

**IEEE 802.11n HT20 mode / 5150 ~ 5250 MHz**

CH Low / Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5180.007930	5150~5250	PASS
40		5180.008360	5150~5250	
30		5180.008490	5150~5250	
20		5180.009460	5150~5250	
10		5180.010460	5150~5250	
0		5180.009850	5150~5250	
-10		5180.009930	5150~5250	
-20		5180.009250	5150~5250	
20	108	5180.009360	5150~5250	PASS
	120	5180.009460	5150~5250	
	132	5180.009420	5150~5250	

CH Middle / Operating Frequency: 5200 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5200.008450	5150~5250	PASS
40		5200.007890	5150~5250	
30		5200.007920	5150~5250	
20		5200.007450	5150~5250	
10		5200.007190	5150~5250	
0		5200.007240	5150~5250	
-10		5200.007330	5150~5250	
-20		5200.007190	5150~5250	
20	108	5200.007820	5150~5250	PASS
	120	5200.007930	5150~5250	
	132	5200.007710	5150~5250	



CH High / Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5240.008460	5150~5250	PASS
40		5240.008860	5150~5250	
30		5240.009470	5150~5250	
20		5240.008150	5150~5250	
10		5240.007710	5150~5250	
0		5240.007190	5150~5250	
-10		5240.007820	5150~5250	
-20		5240.009300	5150~5250	
20	108	5240.007360	5150~5250	PASS
	120	5240.008450	5150~5250	
	132	5240.008850	5150~5250	

IEEE 802.11n HT20 mode / 5725 ~ 5850 MHz

CH Low / Operating Frequency: 5745 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5745.008460	5725~5850	PASS
40		5745.008830	5725~5850	
30		5745.008300	5725~5850	
20		5745.008360	5725~5850	
10		5745.009050	5725~5850	
0		5745.009250	5725~5850	
-10		5745.009980	5725~5850	
-20		5745.009910	5725~5850	
20	108	5745.008130	5725~5850	PASS
	120	5745.008790	5725~5850	
	132	5745.009010	5725~5850	



CH Middle / Operating Frequency: 5785 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5785.007930	5725~5850	PASS
40		5785.008840	5725~5850	
30		5785.009310	5725~5850	
20		5785.008460	5725~5850	
10		5785.008160	5725~5850	
0		5785.008690	5725~5850	
-10		5785.007460	5725~5850	
-20		5785.009250	5725~5850	
20	108	5785.009820	5725~5850	PASS
	120	5785.009150	5725~5850	
	132	5785.010030	5725~5850	

CH High / Operating Frequency: 5825 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5825.007320	5725~5850	PASS
40		5825.008790	5725~5850	
30		5825.008830	5725~5850	
20		5825.009360	5725~5850	
10		5825.009480	5725~5850	
0		5825.009180	5725~5850	
-10		5825.008490	5725~5850	
-20		5825.008530	5725~5850	
20	108	5825.008460	5725~5850	PASS
	120	5825.008490	5725~5850	
	132	5825.008440	5725~5850	

**IEEE 802.11n HT40 mode / 5150 ~ 5250 MHz**

CH Low / Operating Frequency: 5190 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5190.009360	5150~5250	PASS
40		5190.009540	5150~5250	
30		5190.008440	5150~5250	
20		5190.008480	5150~5250	
10		5190.009340	5150~5250	
0		5190.010250	5150~5250	
-10		5190.010490	5150~5250	
-20		5190.011060	5150~5250	
20	108	5190.009350	5150~5250	PASS
	120	5190.008940	5150~5250	
	132	5190.009850	5150~5250	

CH High / Operating Frequency: 5230 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5230.009460	5150~5250	PASS
40		5230.009770	5150~5250	
30		5230.009810	5150~5250	
20		5230.010470	5150~5250	
10		5230.008460	5150~5250	
0		5230.008580	5150~5250	
-10		5230.008870	5150~5250	
-20		5230.007490	5150~5250	
20	108	5230.008440	5150~5250	PASS
	120	5230.009010	5150~5250	
	132	5230.009740	5150~5250	

**IEEE 802.11n HT40 mode / 5725 ~ 5850 MHz**

CH Low / Operating Frequency: 5755 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5755.007930	5725~5850	PASS
40		5755.008490	5725~5850	
30		5755.009350	5725~5850	
20		5755.008420	5725~5850	
10		5755.007910	5725~5850	
0		5755.007360	5725~5850	
-10		5755.008460	5725~5850	
-20		5755.007950	5725~5850	
20	108	5755.007810	5725~5850	PASS
	120	5755.007220	5725~5850	
	132	5755.008390	5725~5850	

CH High / Operating Frequency: 5795 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5795.008640	5725~5850	PASS
40		5795.009050	5725~5850	
30		5795.008770	5725~5850	
20		5795.008460	5725~5850	
10		5795.008830	5725~5850	
0		5795.009450	5725~5850	
-10		5795.009010	5725~5850	
-20		5795.008910	5725~5850	
20	108	5795.008840	5725~5850	PASS
	120	5795.008970	5725~5850	
	132	5795.009010	5725~5850	

**IEEE 802.11ac VHT80 mode / 5150 ~ 5250 MHz**

CH Middle / Operating Frequency: 5210 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5210.007210	5150~5250	PASS
40		5210.007930	5150~5250	
30		5210.008440	5150~5250	
20		5210.009040	5150~5250	
10		5210.009770	5150~5250	
0		5210.009460	5150~5250	
-10		5210.008450	5150~5250	
-20		5210.008860	5150~5250	
20	108	5210.009360	5150~5250	PASS
	120	5210.009980	5150~5250	
	132	5210.010440	5150~5250	

IEEE 802.11ac VHT80 mode / 5725 ~ 5850 MHz

CH Middle / Operating Frequency: 5210 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	120	5775.007630	5725~5850	PASS
40		5775.009540	5725~5850	
30		5775.007250	5725~5850	
20		5775.008460	5725~5850	
10		5775.010240	5725~5850	
0		5775.010490	5725~5850	
-10		5775.010560	5725~5850	
-20		5775.009140	5725~5850	
20	108	5775.008490	5725~5850	PASS
	120	5775.008750	5725~5850	
	132	5775.009120	5725~5850	