

TEST REPORT

Reference No...... : WTH22X06110361W002
FCC ID : 2A7HYDG-625V11
Applicant : Dragonglass Technology (SHENZHEN) Co., Ltd.
Address : Floor 4, No. 128, Potou Du West Road, Longxi community, Longgang street,
Longgang District, Shenzhen, Guangdong
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Repeater
Model No...... : DG-625V11
Standards : FCC Part 15.247
Date of Receipt sample : 2022-06-01
Date of Test..... : 2022-06-01 to 2022-06-25
Date of Issue : 2022-06-25
Test Report Form No. : WTX_Part 15_247W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

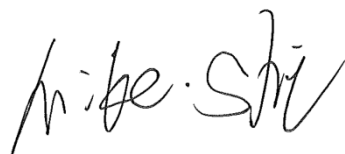
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Report version

Version No.	Date of issue	Description
Rev.00	2022-06-25	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Repeater
Trade Name:	SUPALILOG
Model No.:	DG-625V11
Adding Model(s):	/
Rated Voltage:	AC120V/60Hz
Power Adapter Model:	/
Note: The test data is gathered from a production sample provided by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	Antenna 0: 15.95dBm (Conducted) Antenna 1: 13.37dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	External Undetached Antenna
Antenna Gain:	2dBi
Note: The Antenna Gain is provided by the customer and can affect the validity of results.	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the FCC rules.

662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2022-03-22	2023-03-21
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-22	2023-03-21
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-25	2023-03-24
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-22	2023-03-21
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-22	2023-03-21
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-22	2023-03-21
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-22	2023-03-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1216	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2022-03-25	2023-03-24

SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-22	2023-03-21
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☒ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-21	2023-03-20
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

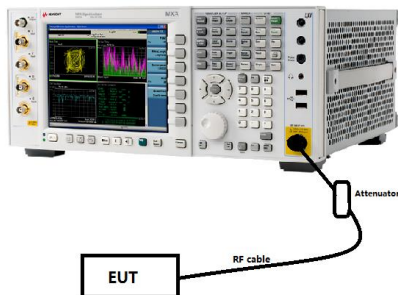
This product has two External Undetached Antennas, fulfill the requirement of this section. And the signals at the antennas are completely uncorrelated. The product transmits signals through Spatial Multiplexing MIMO (SM-MIMO) mode.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

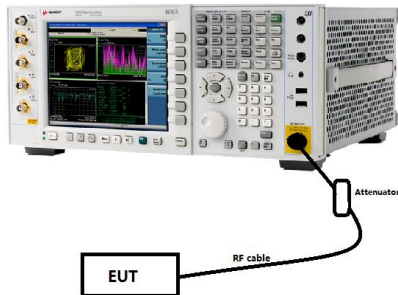
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- Set RBW = 100kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

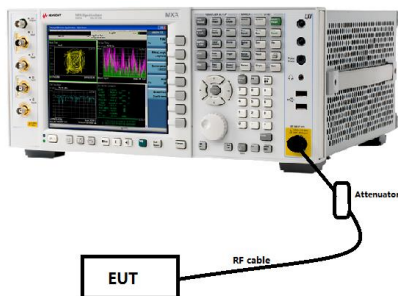
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2013 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- Set span to at least 1.5 times the OBW.
- Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- Set VBW $\geq 3 \times$ RBW.
- Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

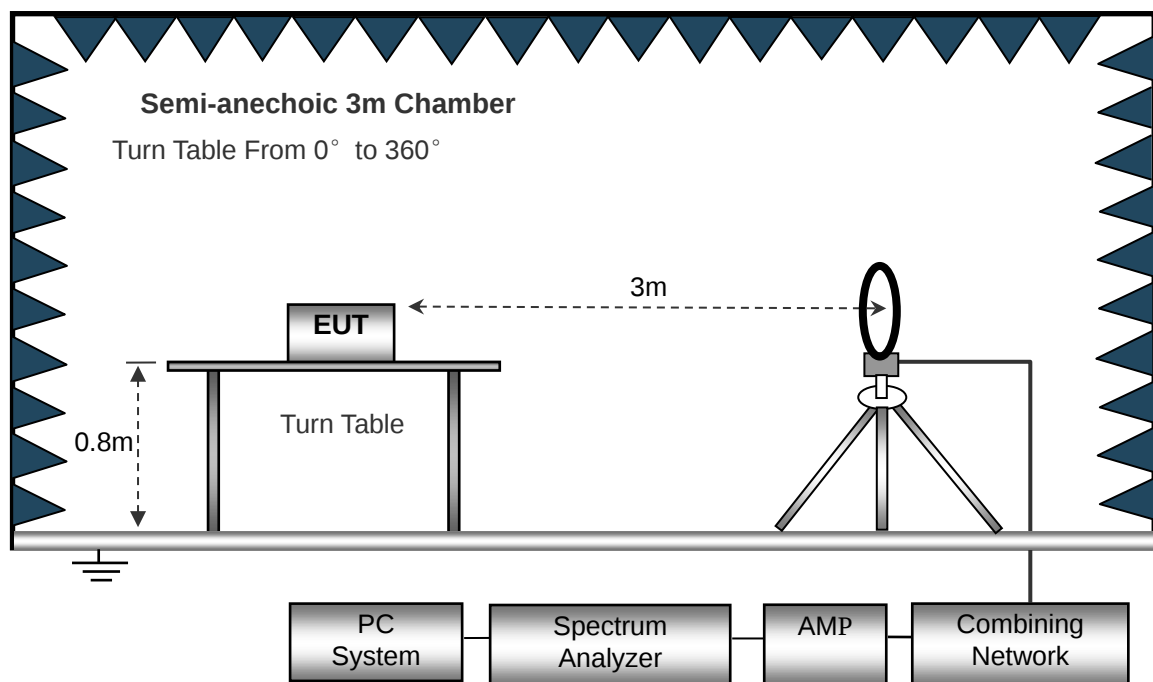
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

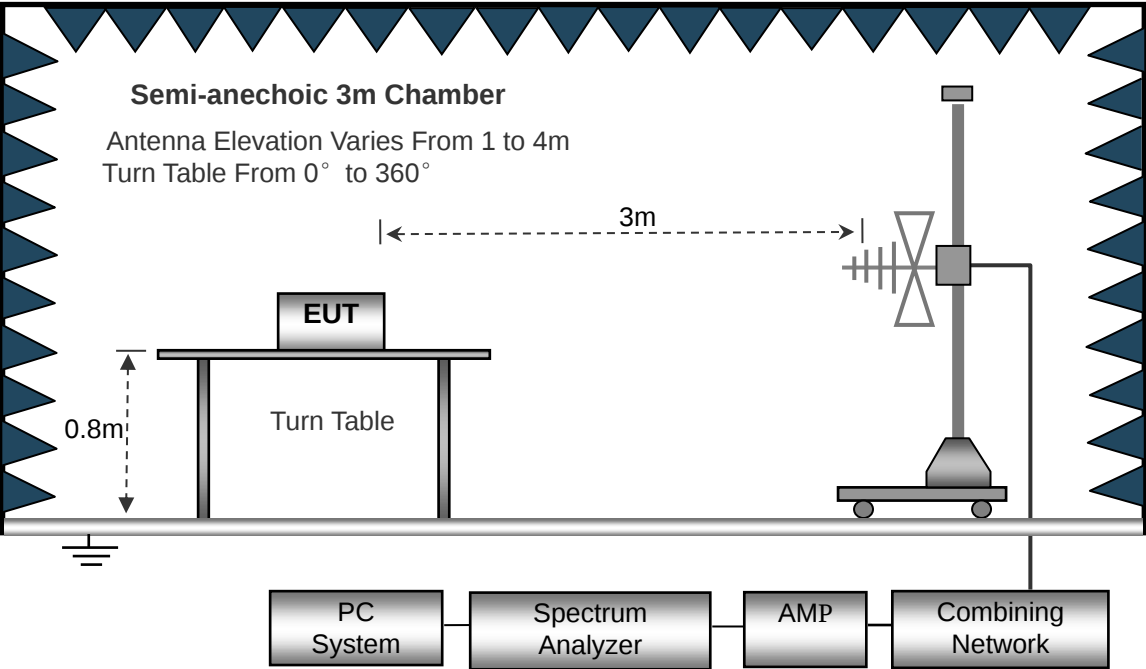
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

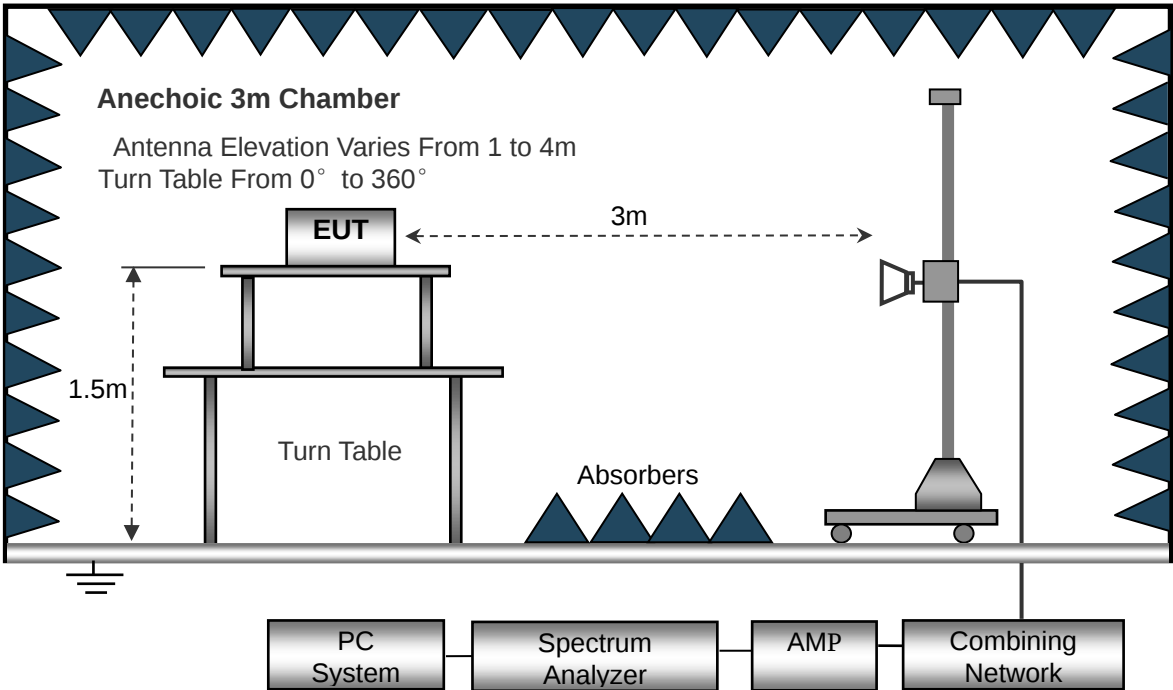
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz RBW=10KHz, VBW =30KHz Sweep time= Auto Trace = max hold Detector function = peak	Frequency :30MHz-1GHz RBW=120KHz, VBW=300KHz Sweep time= Auto Trace = max hold Detector function = peak, QP	Frequency :Above 1GHz RBW=1MHz, VBW=3MHz(Peak), 10Hz(AV) Sweep time= Auto Trace = max hold Detector function = peak, AV
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7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

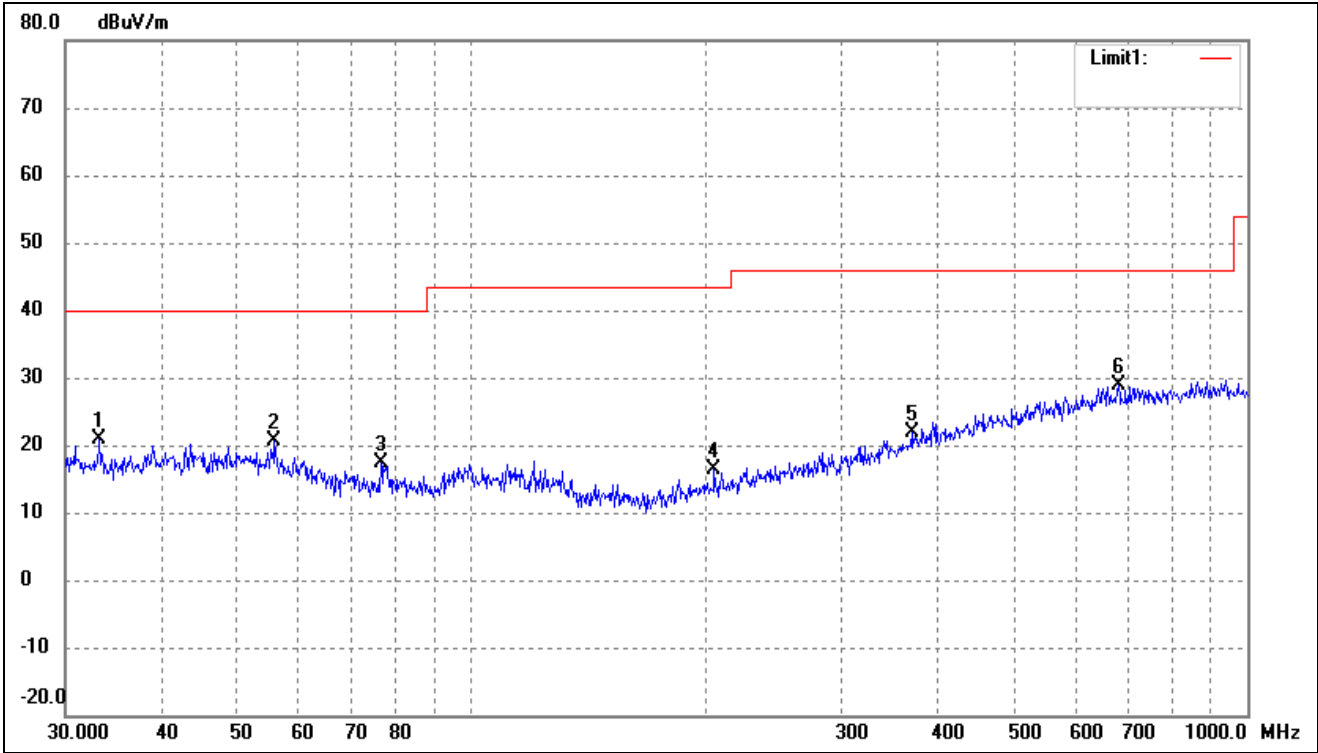
7.4 Summary of Test Results/Plots

Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.

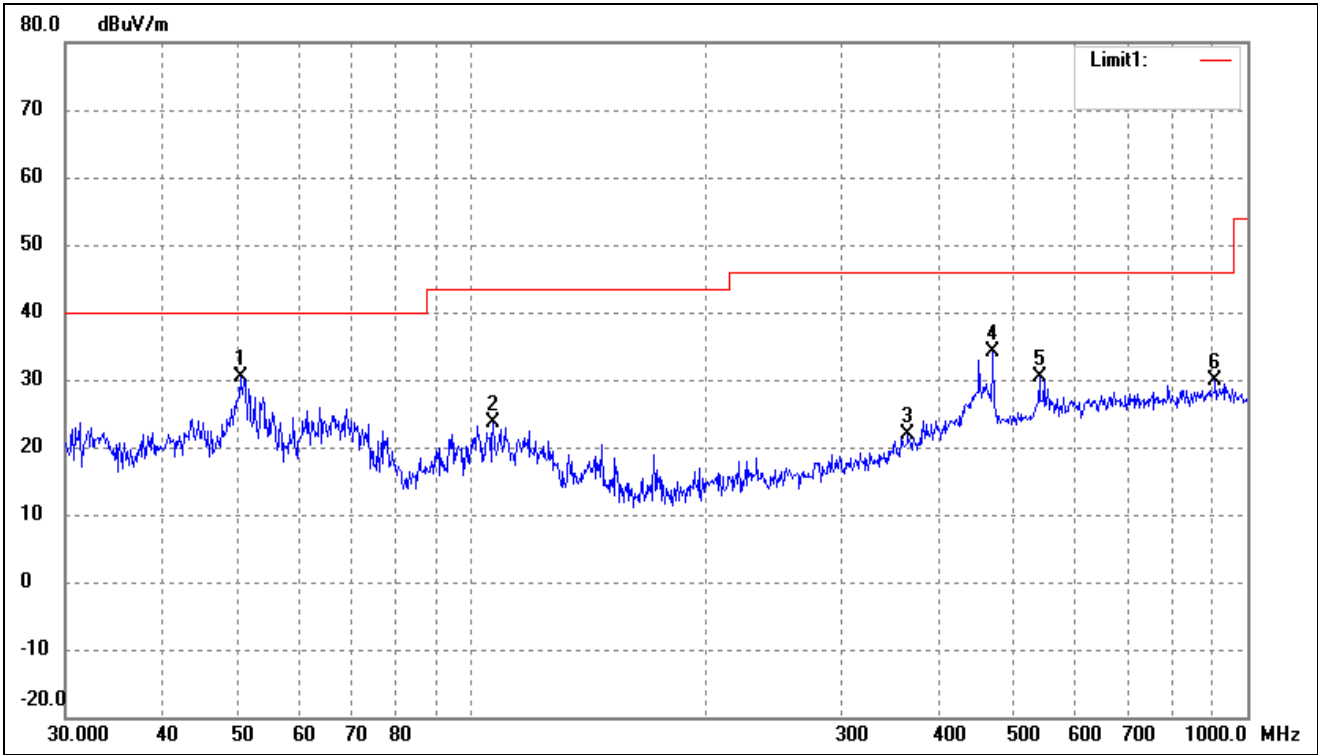
- Spurious Emissions Below 1GHz
- Worst case Antenna 0

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



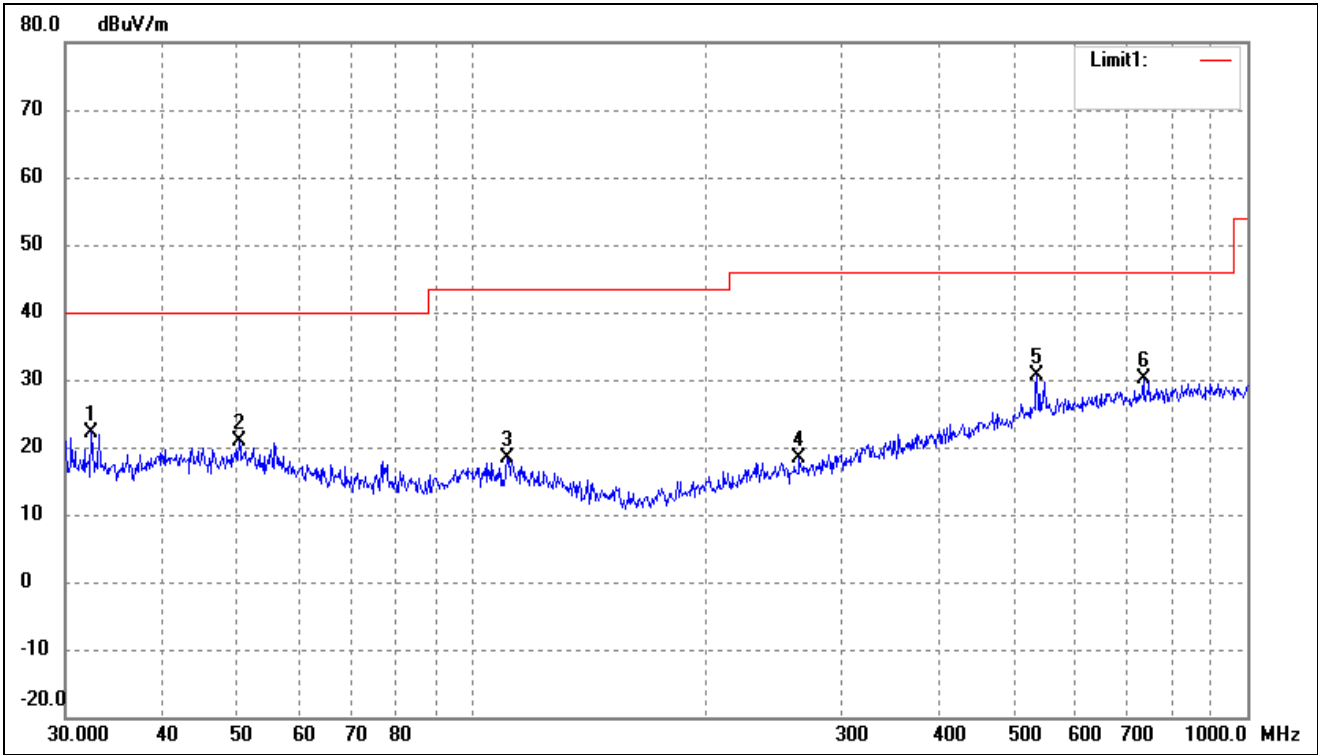
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.2112	29.47	-8.67	20.80	40.00	-19.20	-	-	peak
2	55.8047	28.46	-7.80	20.66	40.00	-19.34	-	-	peak
3	76.5121	27.81	-10.54	17.27	40.00	-22.73	-	-	peak
4	205.6751	25.95	-9.54	16.41	43.50	-27.09	-	-	peak
5	369.4047	26.70	-4.81	21.89	46.00	-24.11	-	-	peak
6	682.3485	27.67	1.25	28.92	46.00	-17.08	-	-	peak

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



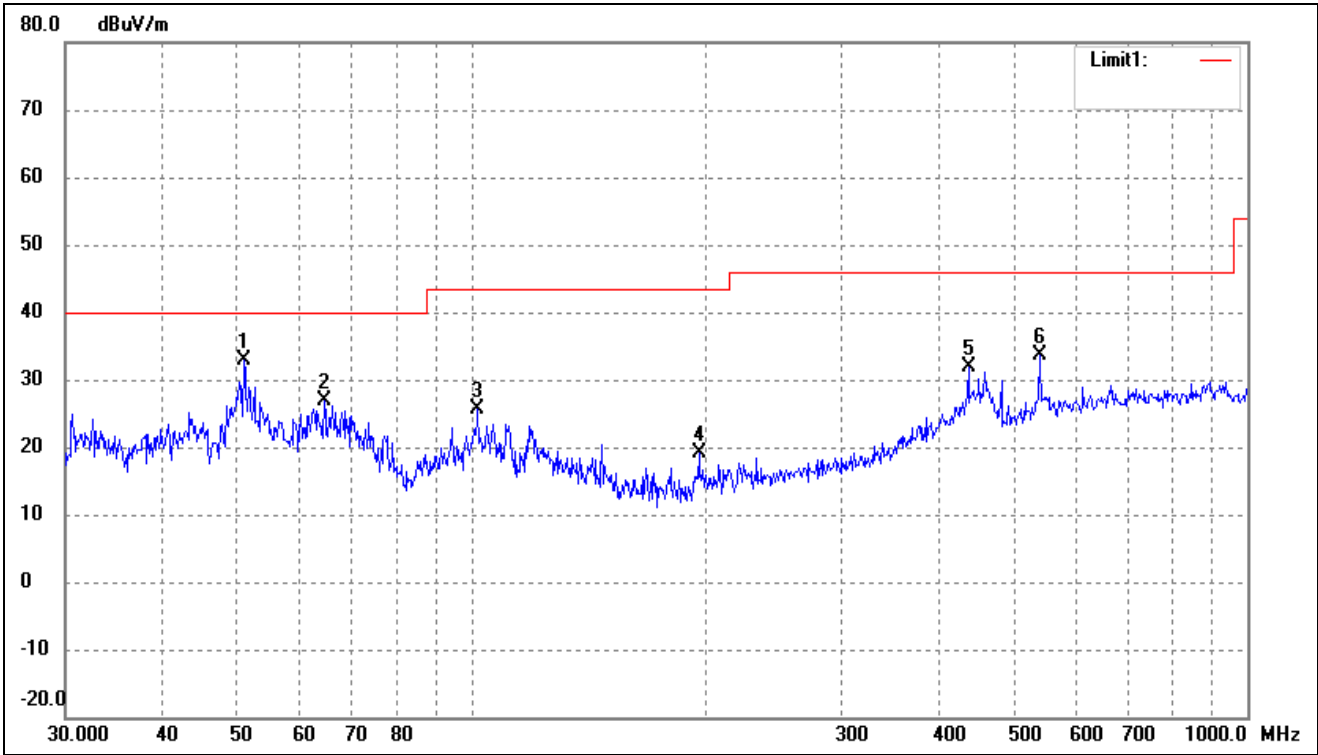
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.4089	37.46	-7.02	30.44	40.00	-9.56	-	-	peak
2	106.7587	32.37	-8.83	23.54	43.50	-19.96	-	-	peak
3	365.5391	26.69	-4.93	21.76	46.00	-24.24	-	-	peak
4	470.5232	36.10	-2.04	34.06	46.00	-11.94	-	-	peak
5	539.4775	30.95	-0.65	30.30	46.00	-15.70	-	-	peak
6	909.6667	27.08	2.72	29.80	46.00	-16.20	-	-	peak

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



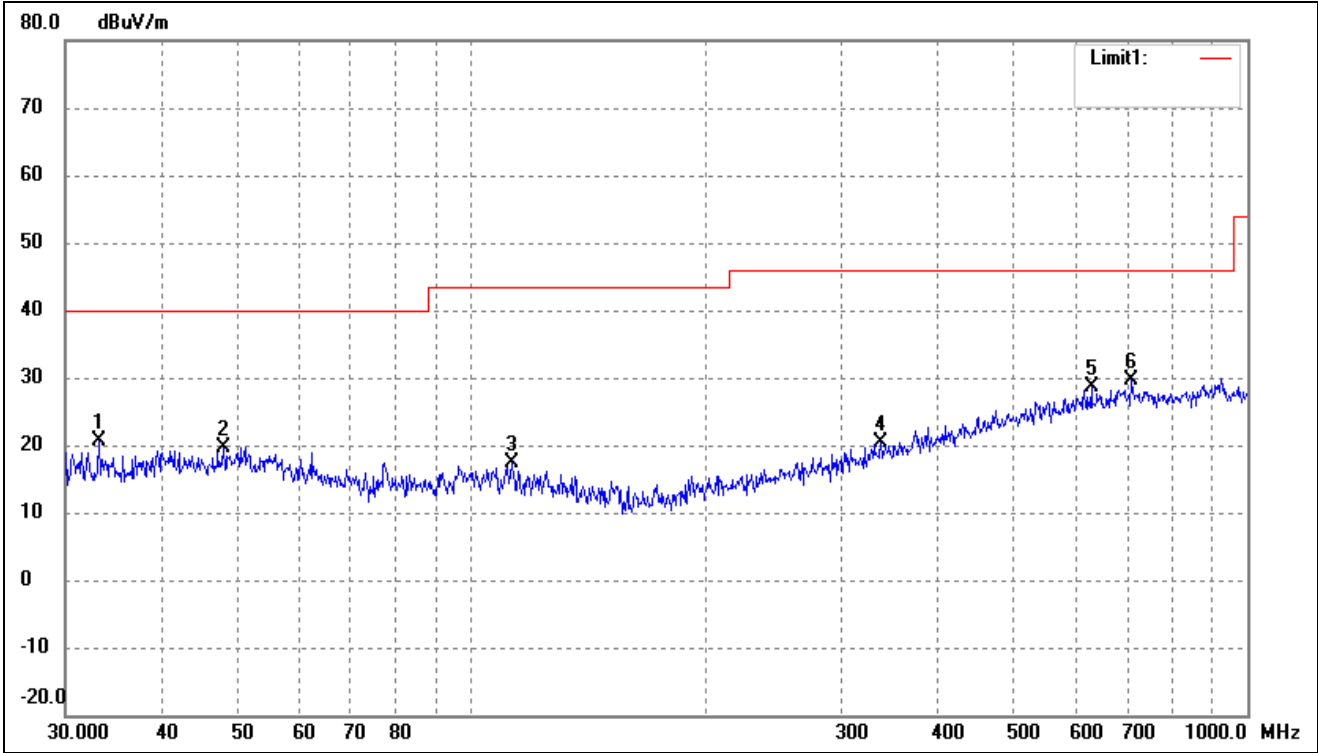
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	32.4059	31.10	-8.85	22.25	40.00	-17.75	-	-	peak
2	50.2324	27.93	-6.99	20.94	40.00	-19.06	-	-	peak
3	111.3468	27.36	-8.97	18.39	43.50	-25.11	-	-	peak
4	264.7457	26.40	-7.91	18.49	46.00	-27.51	-	-	peak
5	535.7073	31.27	-0.70	30.57	46.00	-15.43	-	-	peak
6	734.4913	28.53	1.65	30.18	46.00	-15.82	-	-	peak

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



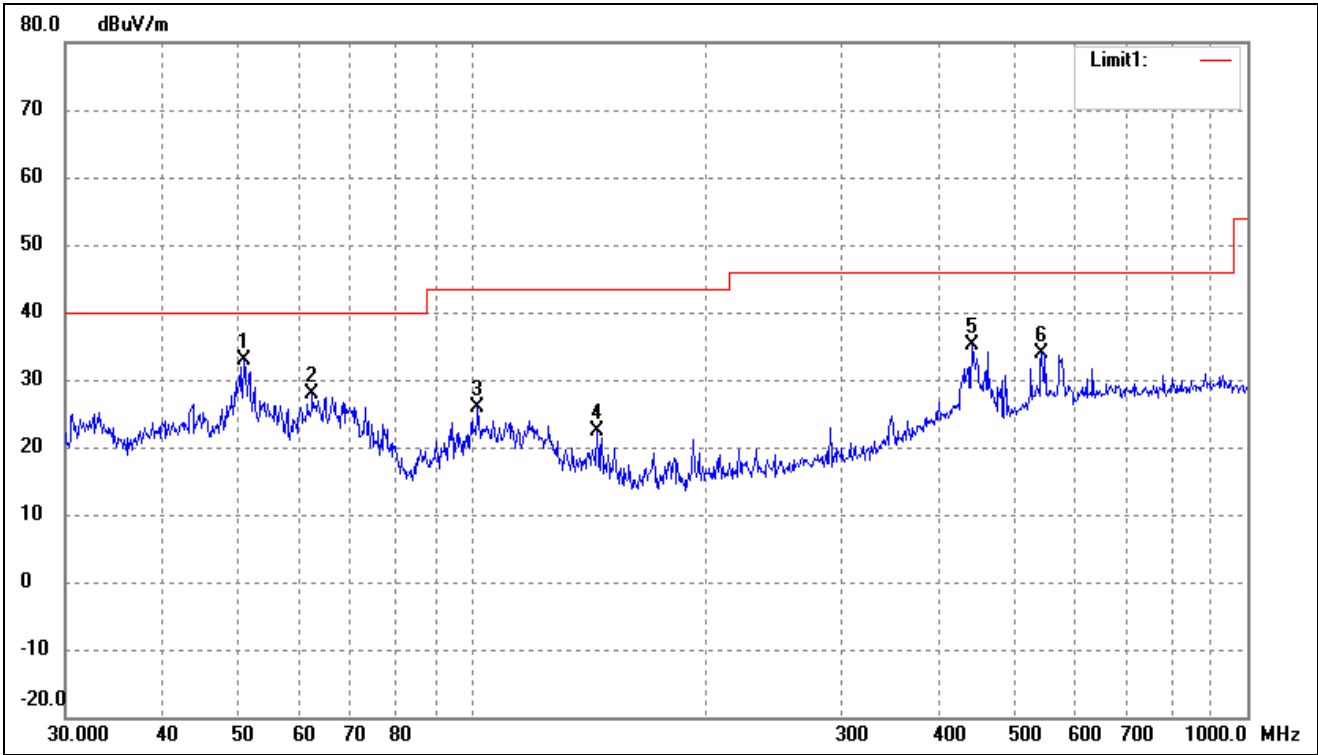
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.9420	39.97	-7.10	32.87	40.00	-7.13	-	-	peak
2	64.6594	36.02	-9.24	26.78	40.00	-13.22	-	-	peak
3	102.0014	34.35	-8.76	25.59	43.50	-17.91	-	-	peak
4	196.5098	28.84	-9.81	19.03	43.50	-24.47	-	-	peak
5	437.1199	34.76	-2.90	31.86	46.00	-14.14	-	-	peak
6	539.4775	34.25	-0.65	33.60	46.00	-12.40	-	-	peak

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.2112	29.37	-8.67	20.70	40.00	-19.30	-	-	peak
2	47.9940	26.67	-6.97	19.70	40.00	-20.30	-	-	peak
3	112.9196	26.37	-9.07	17.30	43.50	-26.20	-	-	peak
4	337.2155	26.11	-5.81	20.30	46.00	-25.70	-	-	peak
5	629.4772	27.91	0.69	28.60	46.00	-17.40	-	-	peak
6	709.1823	28.11	1.48	29.59	46.00	-16.41	-	-	peak

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.9420	39.97	-7.10	32.87	40.00	-7.13	-	-	peak
2	62.4314	36.62	-8.85	27.77	40.00	-12.23	-	-	peak
3	102.0014	34.54	-8.76	25.78	43.50	-17.72	-	-	peak
4	145.3506	34.72	-12.44	22.28	43.50	-21.22	-	-	peak
5	441.7426	37.99	-2.78	35.21	46.00	-10.79	-	-	peak
6	543.2742	34.49	-0.57	33.92	46.00	-12.08	-	-	peak

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Antenna 0
- Test Mode: 802.11b_11Mbps(worst case)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	59.24	-4.50	54.74	74	-19.26	H	PK
4824.000	50.00	-4.50	45.50	54	-8.50	H	AV
7236.000	51.68	1.14	52.82	74	-21.18	H	PK
7236.000	46.86	1.14	48.00	54	-6.00	H	AV
4824.000	60.82	-4.50	56.32	74	-17.68	V	PK
4824.000	50.57	-4.50	46.07	54	-7.93	V	AV
7236.000	49.43	1.14	50.57	74	-23.43	V	PK
7236.000	43.02	1.14	44.16	54	-9.84	V	AV
Middle Channel-2437MHz							
4874.000	61.84	-4.47	57.37	74	-16.63	H	PK
4874.000	48.88	-4.47	44.41	54	-9.59	H	AV
7311.000	55.13	1.47	56.60	74	-17.40	H	PK
7311.000	44.31	1.47	45.78	54	-8.22	H	AV
4874.000	60.75	-4.47	56.28	74	-17.72	V	PK
4874.000	49.74	-4.47	45.27	54	-8.73	V	AV
7311.000	49.29	1.47	50.76	74	-23.24	V	PK
7311.000	43.19	1.47	44.66	54	-9.34	V	AV
High Channel-2462MHz							
4924.000	58.66	-4.44	54.22	74	-19.78	H	PK
4924.000	51.52	-4.44	47.08	54	-6.92	H	AV
7386.000	52.98	1.79	54.77	74	-19.23	H	PK
7386.000	42.95	1.79	44.74	54	-9.26	H	AV
4924.000	60.20	-4.44	55.76	74	-18.24	V	PK
4924.000	50.02	-4.44	45.58	54	-8.42	V	AV
7386.000	51.24	1.79	53.03	74	-20.97	V	PK
7386.000	41.75	1.79	43.54	54	-10.46	V	AV

- Antenna 1
- Test Mode: 802.11b_11Mbps(worst case)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	60.01	-4.50	55.51	74	-18.49	H	PK
4824.000	50.61	-4.50	46.11	54	-7.89	H	AV
7236.000	52.55	1.14	53.69	74	-20.31	H	PK
7236.000	45.91	1.14	47.05	54	-6.95	H	AV
4824.000	59.94	-4.50	55.44	74	-18.56	V	PK
4824.000	52.25	-4.50	47.75	54	-6.25	V	AV
7236.000	48.87	1.14	50.01	74	-23.99	V	PK
7236.000	43.41	1.14	44.55	54	-9.45	V	AV
Middle Channel-2437MHz							
4874.000	61.24	-4.47	56.77	74	-17.23	H	PK
4874.000	49.24	-4.47	44.77	54	-9.23	H	AV
7311.000	53.36	1.47	54.83	74	-19.17	H	PK
7311.000	44.40	1.47	45.87	54	-8.13	H	AV
4874.000	61.42	-4.47	56.95	74	-17.05	V	PK
4874.000	48.96	-4.47	44.49	54	-9.51	V	AV
7311.000	50.38	1.47	51.85	74	-22.15	V	PK
7311.000	40.98	1.47	42.45	54	-11.55	V	AV
High Channel-2462MHz							
4924.000	57.21	-4.44	52.77	74	-21.23	H	PK
4924.000	49.37	-4.44	44.93	54	-9.07	H	AV
7386.000	51.60	1.79	53.39	74	-20.61	H	PK
7386.000	43.77	1.79	45.56	54	-8.44	H	AV
4924.000	62.24	-4.44	57.80	74	-16.20	V	PK
4924.000	50.33	-4.44	45.89	54	-8.11	V	AV
7386.000	51.67	1.79	53.46	74	-20.54	V	PK
7386.000	42.71	1.79	44.50	54	-9.50	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) $VBW \geq [3 \times RBW]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

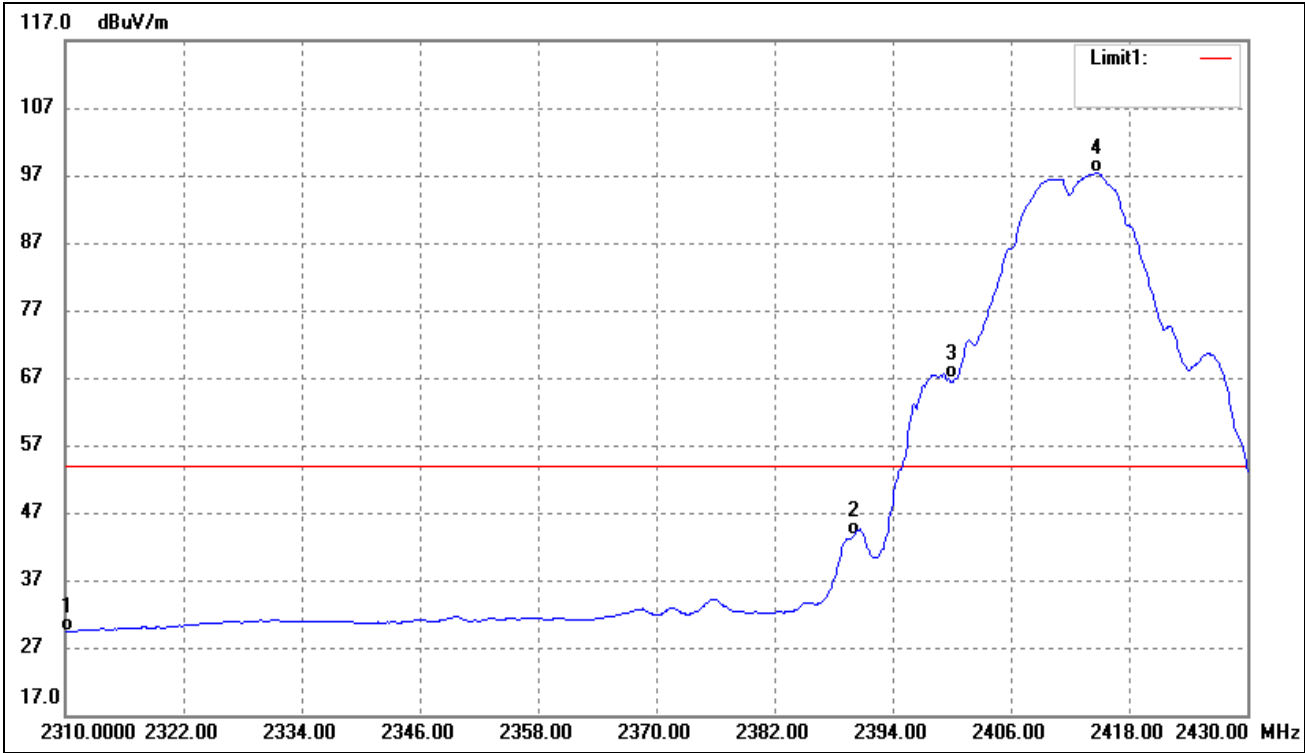
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

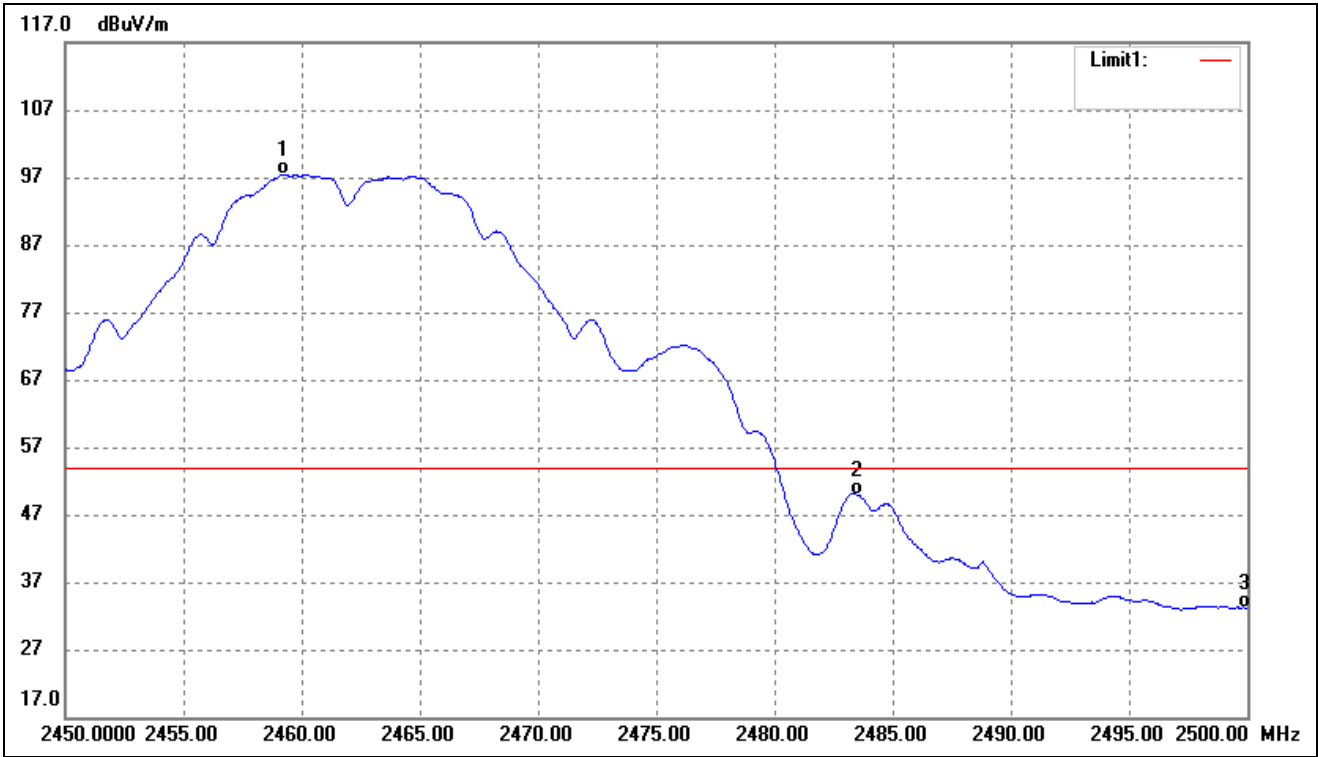
- Radiated test
- Antenna 0

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



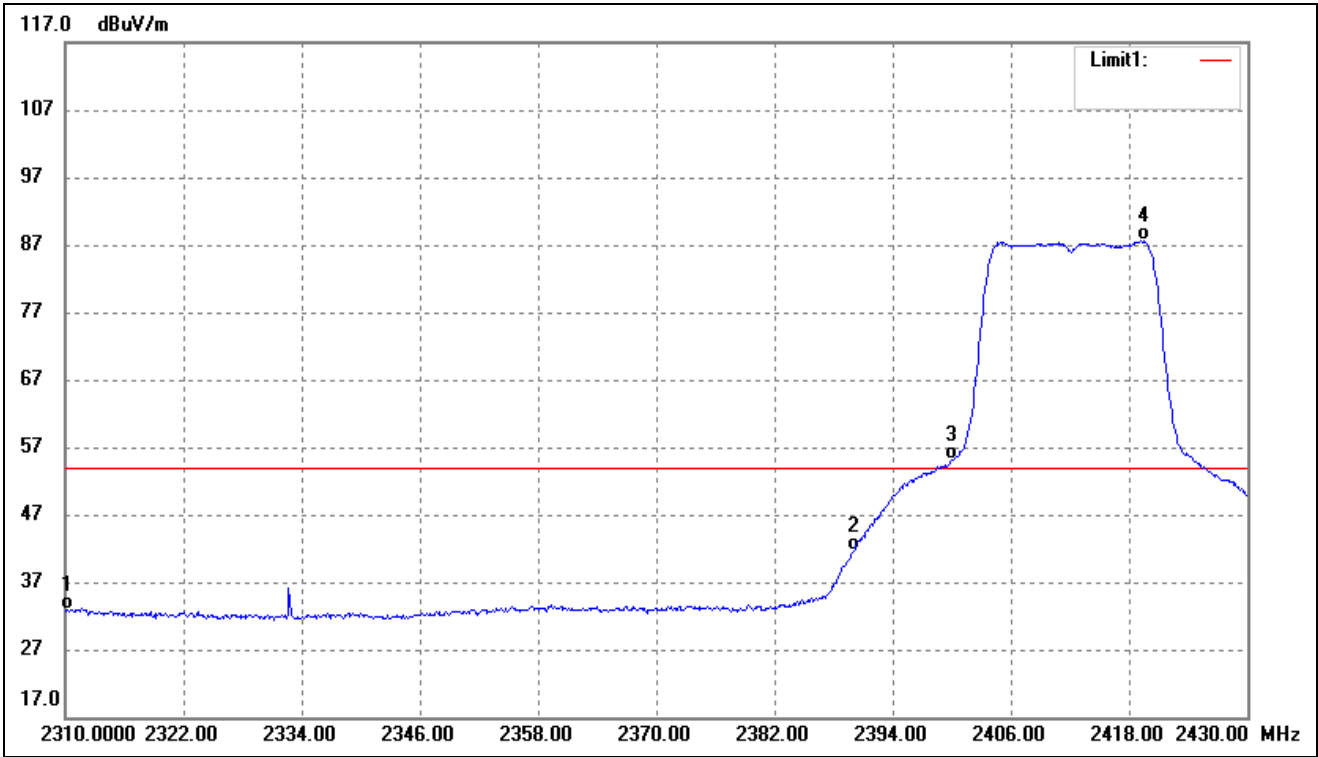
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.29	-10.82	29.47	54.00	-24.53	Average Detector
	2310.000	54.05	-10.82	43.23	74.00	-30.77	Peak Detector
2	2390.000	54.31	-10.70	43.61	54.00	-10.39	Average Detector
	2390.000	63.71	-10.70	53.01	74.00	-20.99	Peak Detector
3	2400.000	77.56	-10.69	66.87	Delta=30.46dBc		Average Detector
4	2414.640	107.99	-10.66	97.33			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



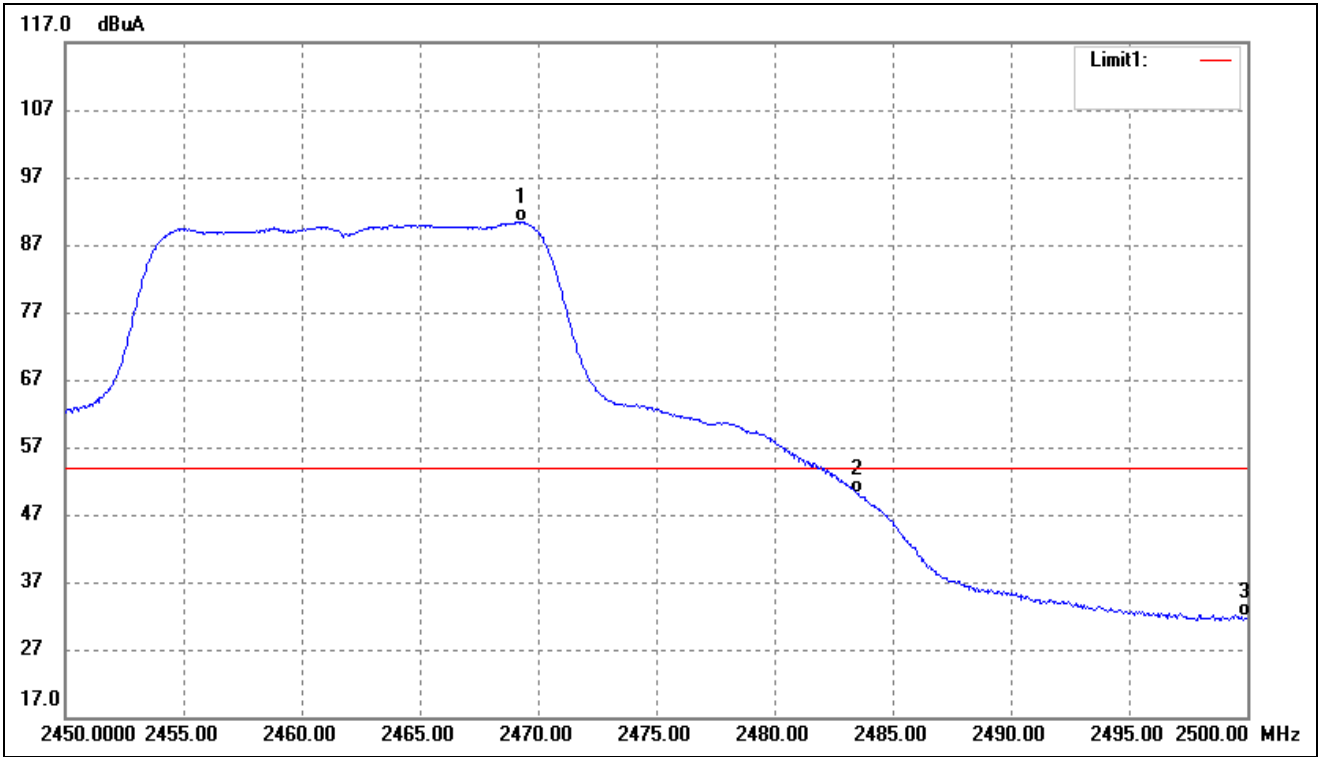
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.250	108.03	-10.61	97.42	/	/	Average Detector
	2460.500	113.08	-10.61	102.47	/	/	Peak Detector
2	2483.500	60.57	-10.58	49.99	54.00	-4.01	Average Detector
	2483.500	67.35	-10.58	56.77	74.00	-17.23	Peak Detector
3	2500.000	43.67	-10.55	33.12	54.00	-20.88	Average Detector
	2500.000	56.05	-10.55	45.50	74.00	-28.50	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



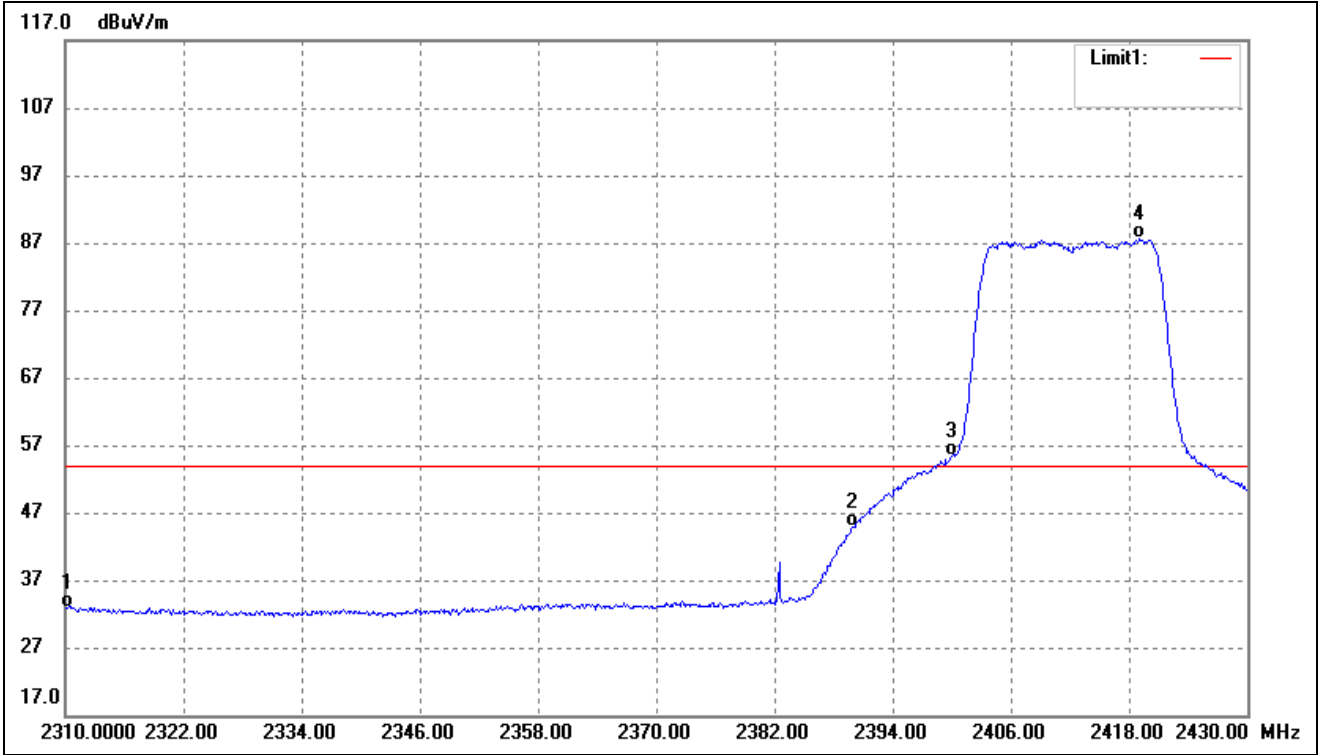
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.62	-10.82	32.80	54.00	-21.20	Average Detector
	2310.000	54.77	-10.82	43.95	74.00	-30.05	Peak Detector
2	2390.000	52.43	-10.70	41.73	54.00	-12.27	Average Detector
	2390.000	68.53	-10.70	57.83	74.00	-16.17	Peak Detector
3	2400.000	65.81	-10.69	55.12	Delta=32.57dBc		Average Detector
4	2419.440	98.35	-10.66	87.69			Average Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



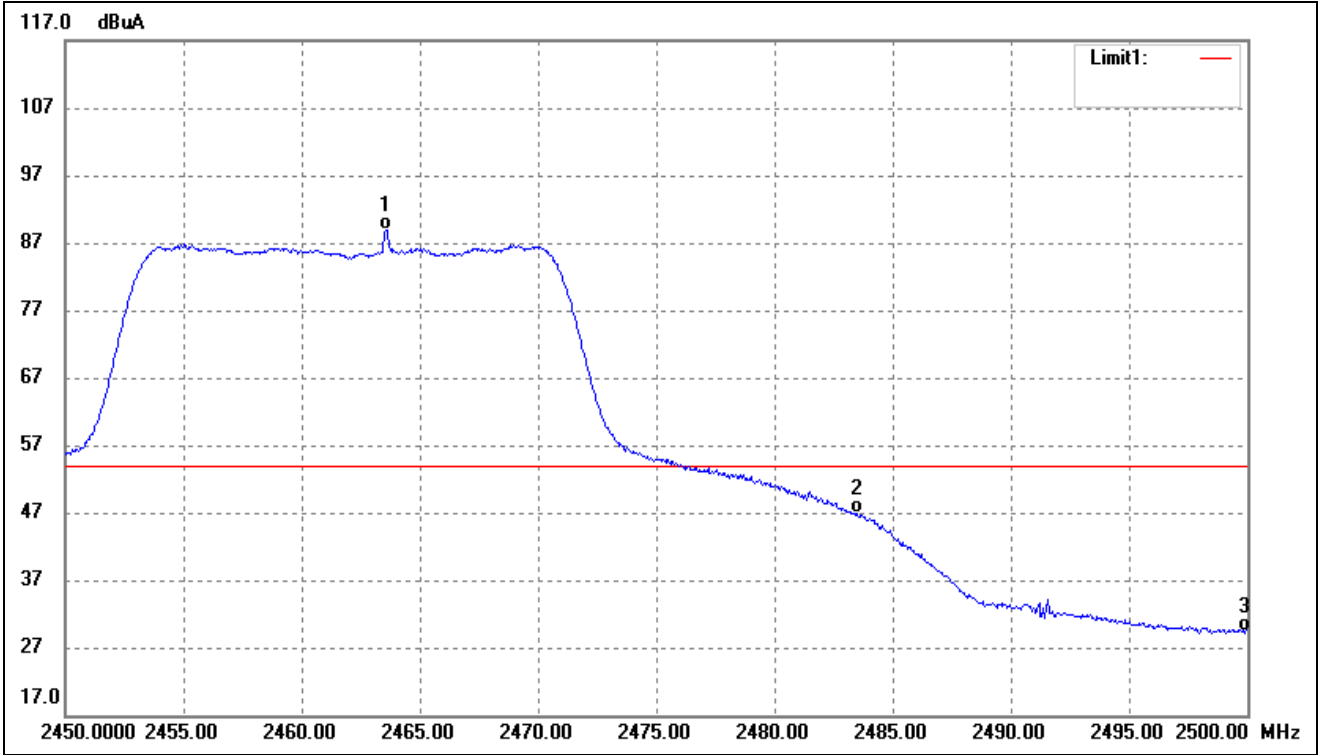
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.300	100.95	-10.59	90.36	/	/	Average Detector
	2464.300	110.77	-10.59	100.18	/	/	Peak Detector
2	2483.500	60.74	-10.58	50.16	54.00	-3.84	Average Detector
	2483.500	80.60	-10.58	70.02	74.00	-3.98	Peak Detector
3	2500.000	42.36	-10.55	31.81	54.00	-22.19	Average Detector
	2500.000	54.86	-10.55	44.31	74.00	-29.69	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



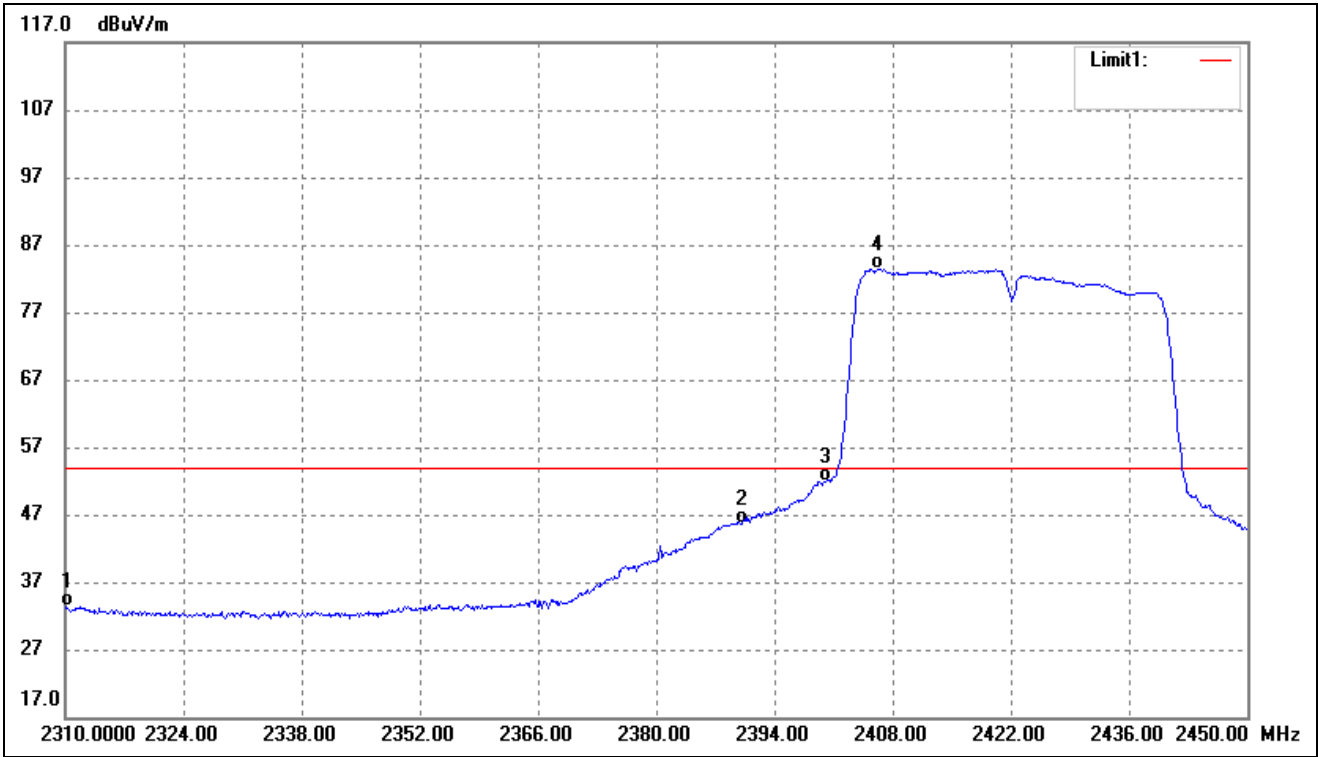
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.61	-10.82	32.79	54.00	-21.21	Average Detector
	2310.000	56.17	-10.82	45.35	74.00	-28.65	Peak Detector
2	2390.000	55.60	-10.70	44.90	54.00	-9.10	Average Detector
	2390.000	78.49	-10.70	67.79	74.00	-6.21	Peak Detector
3	2400.000	66.06	-10.69	55.37	Delta=32.16dBc		Average Detector
4	2419.080	98.19	-10.66	87.53			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



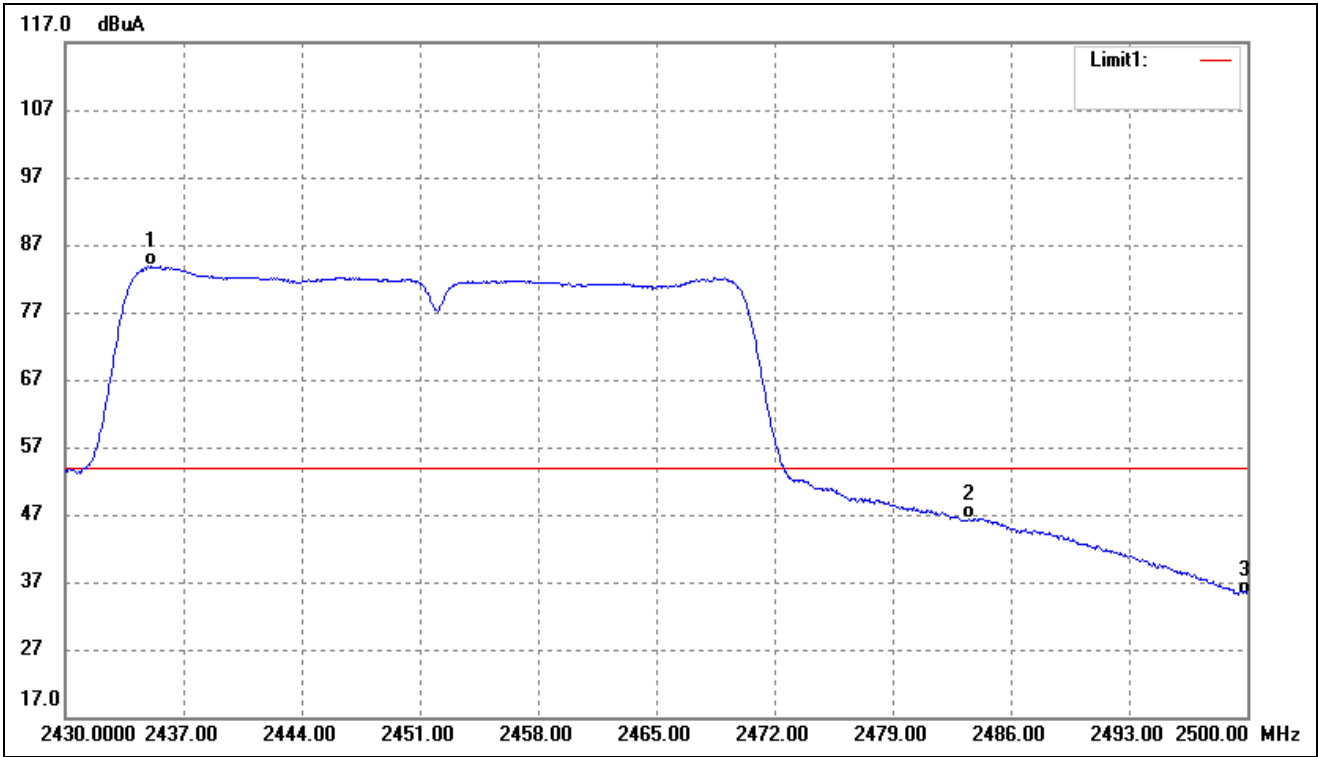
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.550	99.42	-10.60	88.82	/	/	Average Detector
	2469.200	107.47	-10.59	96.88	/	/	Peak Detector
2	2483.500	57.35	-10.58	46.77	54.00	-7.23	Average Detector
	2483.500	77.45	-10.58	66.87	74.00	-7.13	Peak Detector
3	2500.000	40.01	-10.55	29.46	54.00	-24.54	Average Detector
	2500.000	52.14	-10.55	41.59	74.00	-32.41	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	44.14	-10.82	33.32	54.00	-20.68	Average Detector
	2310.000	55.83	-10.82	45.01	74.00	-28.99	Peak Detector
2	2390.000	56.40	-10.70	45.70	54.00	-8.30	Average Detector
	2390.000	69.81	-10.70	59.11	74.00	-14.89	Peak Detector
3	2400.000	62.57	-10.69	51.88	Delta=31.57dBc		Average Detector
4	2406.180	94.13	-10.68	83.45			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2435.040	94.50	-10.64	83.86	/	/	Average Detector
	2435.810	105.13	-10.64	94.49	/	/	Peak Detector
2	2483.500	56.88	-10.58	46.30	54.00	-7.70	Average Detector
	2483.500	71.41	-10.58	60.83	74.00	-13.17	Peak Detector
3	2500.000	45.64	-10.55	35.09	54.00	-18.91	Average Detector
	2500.000	59.30	-10.55	48.75	74.00	-25.25	Peak Detector

➤ Conducted test

Please refer to Appendix D

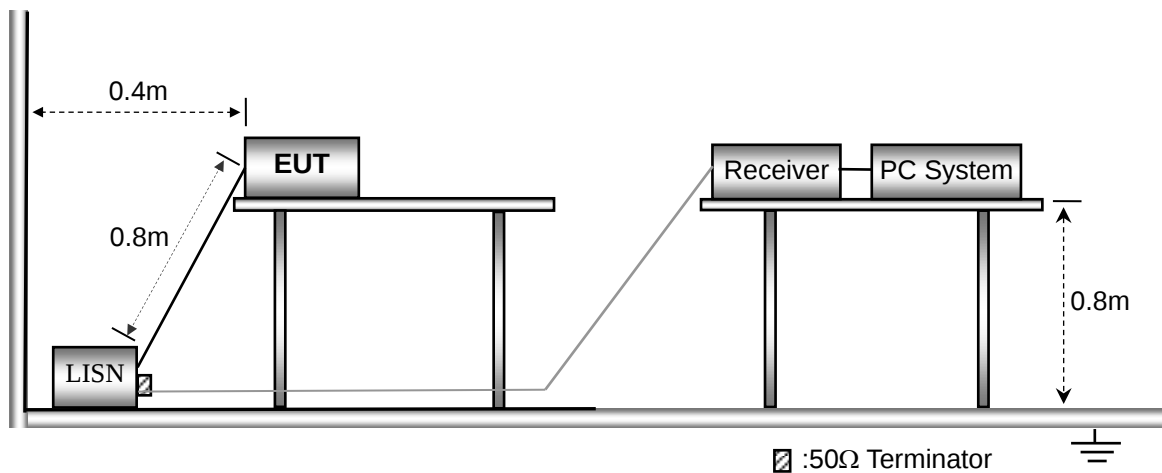
9. Conducted Emissions

9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



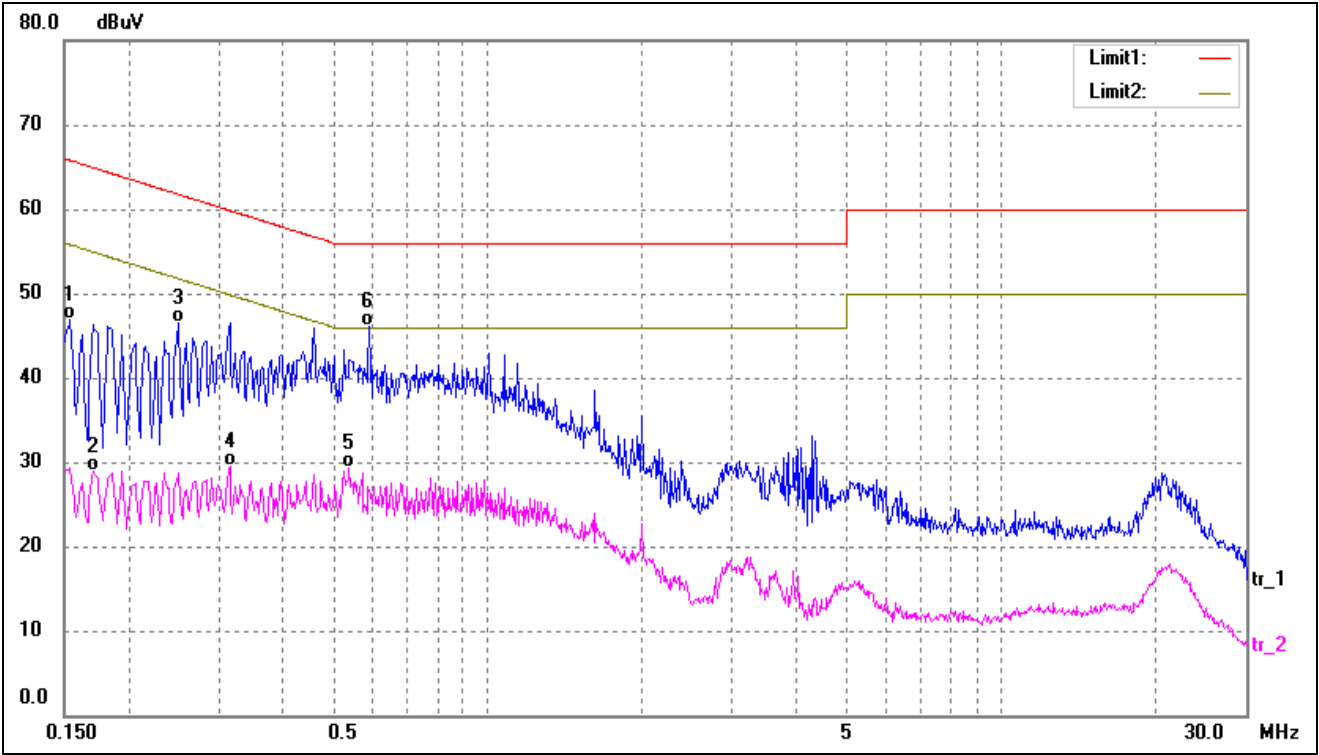
9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150kHz
Stop Frequency	30MHz
Sweep Speed	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth	9kHz
Quasi-Peak Adapter Mode	Normal

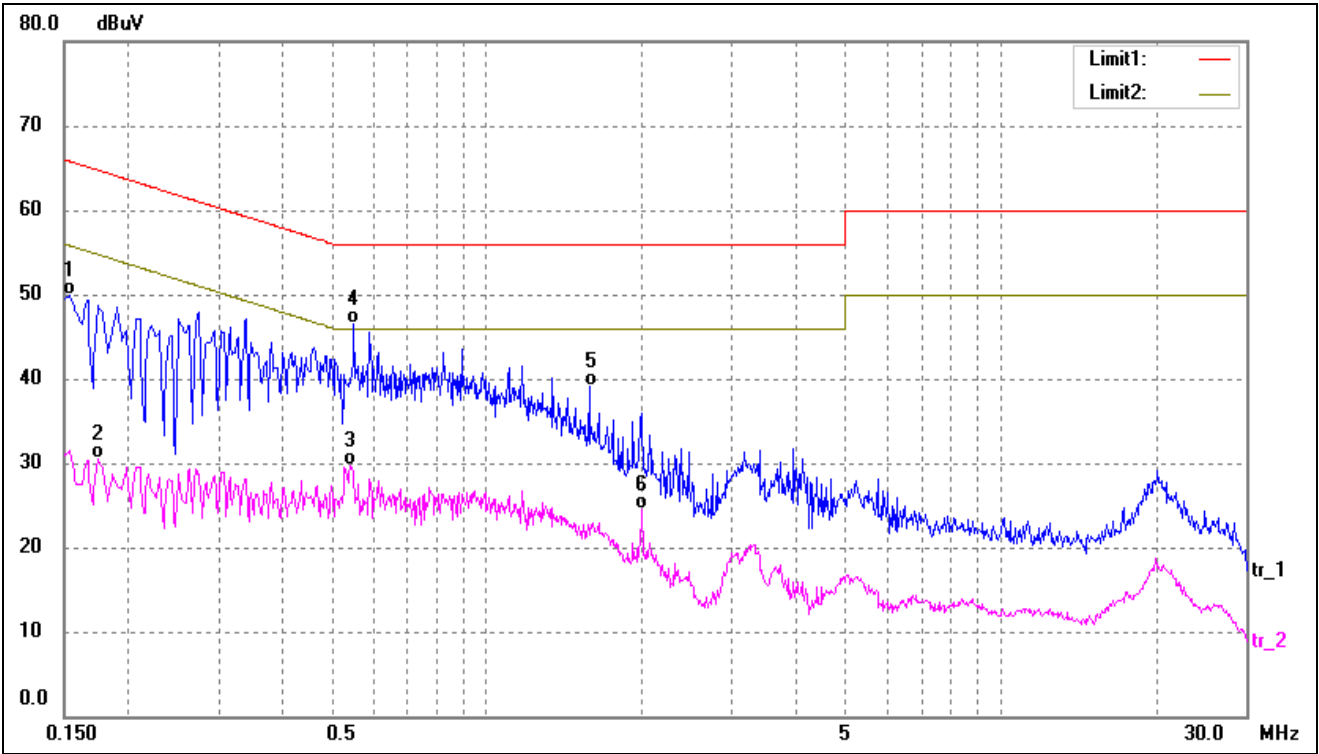
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	36.59	10.37	46.96	65.78	-18.82	QP
2	0.1700	18.58	10.37	28.95	54.96	-26.01	AVG
3	0.2500	36.21	10.35	46.56	61.76	-15.20	QP
4	0.3140	19.26	10.33	29.59	49.86	-20.27	AVG
5	0.5380	18.99	10.28	29.27	46.00	-16.73	AVG
6*	0.5900	35.74	10.31	46.05	56.00	-9.95	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	39.60	10.37	49.97	65.78	-15.81	QP
2	0.1740	20.18	10.37	30.55	54.77	-24.22	AVG
3	0.5420	19.36	10.29	29.65	46.00	-16.35	AVG
4*	0.5500	36.15	10.29	46.44	56.00	-9.56	QP
5	1.5780	28.85	10.31	39.16	56.00	-16.84	QP
6	2.0020	14.29	10.13	24.42	46.00	-21.58	AVG

APPENDIX SUMMARY

Project No.	WTH22X06110361W	Test Engineer	Dashan
Start date	2022/06/10	Finish date	2022/06/13
Temperature	24.6℃	Humidity	47%
RF specifications	WIFI-2.4G		

APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

APPENDIX A

Power Spectral Density					
Test Mode	Test Channel MHz	Test Result(dBm/3kHz)		Total dBm	Limit dBm/3kHz
		Antenna 0	Antenna 1		
802.11b_1Mbps	2412	-18.44	-21.60	/	8
	2437	-17.22	-22.32	/	8
	2462	-17.15	-22.35	/	8
802.11g_6Mbps	2412	-19.74	-21.29	/	8
	2437	-19.37	-21.41	/	8
	2462	-19.95	-21.21	/	8
802.11n-HT20_MCS0	2412	-20.23	-22.79	-18.31	8
	2437	-19.89	-22.39	-17.95	8
	2462	-20.56	-22.05	-18.23	8
802.11n-HT40_MCS0	2422	-24.38	-23.55	-20.93	8
	2437	-24.08	-23.33	-20.68	8
	2452	-24.49	-22.78	-20.54	8

Antenna 0

802.11b-Low	
802.11b-Middle	
802.11b-High	

802.11g-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.41953 GHz -19.74 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.419530000 GHz -19.74 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.44450 GHz -19.37 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.444500000 GHz -19.37 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.46956 GHz -19.95 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.469560000 GHz -19.95 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT20-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.41419 GHz -20.23 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.414190000 GHz -20.23 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.42956 GHz -19.89 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.429560000 GHz -19.89 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.47013 GHz -20.56 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.470130000 GHz -20.56 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT40-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.43700 GHz -24.38 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.43700000 GHz -24.38 dBm Center 2.422 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.43202 GHz -24.08 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.43202000 GHz -24.08 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.43574 GHz -24.49 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.435740000 GHz -24.49 dBm Center 2.452 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

Antenna 1

802.11b-Low	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.41947 GHz -21.6 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.419470000 GHz -21.6 dBm Center 2.412 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-Middle	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.44447 GHz -22.32 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.444470000 GHz -22.32 dBm Center 2.437 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-High	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46980 GHz -22.35 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.469800000 GHz -22.35 dBm Center 2.462 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11g-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.41980 GHz -21.29 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.44450 GHz -21.41 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.444500000 GHz -21.41 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.46950 GHz -21.21 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.469500000 GHz -21.21 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT20-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.40450 GHz -22.79 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.40450000 GHz -22.79 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.42920 GHz -22.39 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.42920000 GHz -22.39 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.46953 GHz -22.05 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.469530000 GHz -22.05 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT40-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.43826 GHz -23.55 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.438260000 GHz -23.55 dBm Center 2.422 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.42074 GHz -23.33 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.420740000 GHz -23.33 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.43574 GHz -22.78 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.435740000 GHz -22.78 dBm Center 2.452 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

APPENDIX B

DTS Bandwidth				
Test Mode	Test Channel MHz	Test Result(MHz)		Limit kHz
		Antenna 0	Antenna 1	
802.11b_1Mbps	2412	10.088	10.090	≥500
	2437	10.071	10.058	≥500
	2462	10.075	10.068	≥500
802.11g_6Mbps	2412	16.346	16.383	≥500
	2437	16.391	16.368	≥500
	2462	16.371	16.374	≥500
802.11n-HT20_MCS0	2412	17.151	17.550	≥500
	2437	17.323	17.582	≥500
	2462	17.101	17.110	≥500
802.11n-HT40_MCS0	2422	35.803	36.095	≥500
	2437	35.985	36.275	≥500
	2452	36.255	36.298	≥500

Antenna 0

802.11b-Low	Agilent R T Ch Freq 2.412 GHz Occupied Bandwidth Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 12.3181 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 28.189 kHz x dB Bandwidth 10.088 MHz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39200000 GHz Stop Freq 2.43200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11b-Middle	Agilent R T Ch Freq 2.437 GHz Occupied Bandwidth Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 12.2905 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 16.881 kHz x dB Bandwidth 10.071 MHz Freq/Channel Center Freq 2.437000000 GHz Start Freq 2.417000000 GHz Stop Freq 2.457000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11b-High	Agilent R T Ch Freq 2.462 GHz Occupied Bandwidth Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 12.2498 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 9.858 kHz x dB Bandwidth 10.075 MHz Freq/Channel Center Freq 2.46200000 GHz Start Freq 2.44200000 GHz Stop Freq 2.48200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

802.11g-Low	Agilent Ch Freq 2.412 GHz Occupied Bandwidth Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 16.4925 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 7.567 kHz x dB Bandwidth 16.346 MHz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39200000 GHz Stop Freq 2.43200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11g-Middle	Agilent Ch Freq 2.437 GHz Occupied Bandwidth Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 16.4758 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -191.525 Hz x dB Bandwidth 16.391 MHz Freq/Channel Center Freq 2.437000000 GHz Start Freq 2.417000000 GHz Stop Freq 2.457000000 GHz CF Step 4.000000000 MHz Auto Man Freq Offset 0.000000000 Hz Signal Track On Off Scale Type Log Lin
802.11g-High	Agilent Ch Freq 2.462 GHz Occupied Bandwidth Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 16.4998 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 6.903 kHz x dB Bandwidth 16.371 MHz Freq/Channel Center Freq 2.462000000 GHz Start Freq 2.442000000 GHz Stop Freq 2.482000000 GHz CF Step 4.000000000 MHz Auto Man Freq Offset 0.000000000 Hz Signal Track On Off Scale Type Log Lin

802.11n-HT20-Low	Agilent Ch Freq 2.412 GHz Occupied Bandwidth Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 17.5588 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 9.239 kHz x dB Bandwidth 17.151 MHz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39200000 GHz Stop Freq 2.43200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11n-HT20-Middle	Agilent Ch Freq 2.437 GHz Occupied Bandwidth Center 2.43700000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 17.5689 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 8.791 kHz x dB Bandwidth 17.323 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent Ch Freq 2.462 GHz Occupied Bandwidth Center 2.46200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 17.5575 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 11.438 kHz x dB Bandwidth 17.101 MHz Freq/Channel Center Freq 2.46200000 GHz Start Freq 2.44200000 GHz Stop Freq 2.48200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

802.11n-HT40-Low	Agilent R T Ch Freq 2.422 GHz Trig Free Occupied Bandwidth Span 80.00000000 MHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 80 MHz Occupied Bandwidth 36.1228 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -476.775 Hz x dB Bandwidth 35.803 MHz Span Span 80.00000000 MHz Span Zoom Full Span Zero Span Last Span Zone ▶
802.11n-HT40-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 80 MHz Occupied Bandwidth 36.1691 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 8.680 kHz x dB Bandwidth 35.985 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent R T Ch Freq 2.452 GHz Trig Free Occupied Bandwidth Center 2.452000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 80 MHz Occupied Bandwidth 36.1747 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 3.700 kHz x dB Bandwidth 36.255 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

Antenna 1

802.11b-Low	Agilent Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 12.2355 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 27.383 kHz x dB Bandwidth 10.090 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11b-Middle	Agilent Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Center 2.43700000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 12.2235 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -1.065 kHz x dB Bandwidth 10.058 MHz Freq/Channel Center Freq 2.43700000 GHz Start Freq 2.41700000 GHz Stop Freq 2.45700000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11b-High	Agilent Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Center 2.46200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 12.1912 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 25.066 kHz x dB Bandwidth 10.068 MHz Freq/Channel Center Freq 2.46200000 GHz Start Freq 2.44200000 GHz Stop Freq 2.48200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

802.11g-Low	Agilent Ch Freq 2.412 GHz Occupied Bandwidth Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 16.4992 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 9.605 kHz x dB Bandwidth 16.383 MHz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39200000 GHz Stop Freq 2.43200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11g-Middle	Agilent Ch Freq 2.437 GHz Occupied Bandwidth Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 16.5057 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -3.793 kHz x dB Bandwidth 16.368 MHz Freq/Channel Center Freq 2.43700000 GHz Start Freq 2.41700000 GHz Stop Freq 2.45700000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11g-High	Agilent Ch Freq 2.462 GHz Occupied Bandwidth Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 16.4950 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 7.489 kHz x dB Bandwidth 16.374 MHz Freq/Channel Center Freq 2.46200000 GHz Start Freq 2.44200000 GHz Stop Freq 2.48200000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

802.11n-HT20-Low	Agilent Ch Freq2.412 GHz TrigFree Occupied Bandwidth Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 17.5764 MHz Occ BW % Pwr99.00 % x dB-6.00 dB Transmit Freq Error10.720 kHz x dB Bandwidth17.550 MHz Freq/Channel Center Freq2.41200000 GHz Start Freq2.39200000 GHz Stop Freq2.43200000 GHz CF Step4.00000000 MHz AutoMan Freq Offset0.00000000 Hz Signal TrackOnOff Scale TypeLogLin
802.11n-HT20-Middle	Agilent Ch Freq2.437 GHz TrigFree Occupied Bandwidth Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 17.5631 MHz Occ BW % Pwr99.00 % x dB-6.00 dB Transmit Freq Error13.749 kHz x dB Bandwidth17.582 MHz Freq/Channel Center Freq2.437000000 GHz Start Freq2.417000000 GHz Stop Freq2.457000000 GHz CF Step4.00000000 MHz AutoMan Freq Offset0.00000000 Hz Signal TrackOnOff Scale TypeLogLin
802.11n-HT20-High	Agilent Ch Freq2.462 GHz TrigFree Occupied Bandwidth Center 2.462 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 40 MHz Occupied Bandwidth 17.5715 MHz Occ BW % Pwr99.00 % x dB-6.00 dB Transmit Freq Error11.616 kHz x dB Bandwidth17.110 MHz Freq/Channel Center Freq2.46200000 GHz Start Freq2.44200000 GHz Stop Freq2.48200000 GHz CF Step4.00000000 MHz AutoMan Freq Offset0.00000000 Hz Signal TrackOnOff Scale TypeLogLin

802.11n-HT40-Low	Agilent R T Ch Freq 2.422 GHz Trig Free Occupied Bandwidth Span 80.00000000 MHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 80 MHz Occupied Bandwidth 36.1284 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 256.933 Hz x dB Bandwidth 36.095 MHz Span Span 80.00000000 MHz Span Zoom Full Span Zero Span Last Span Zone ▶
802.11n-HT40-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 80 MHz Occupied Bandwidth 36.1686 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 10.920 kHz x dB Bandwidth 36.275 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent R T Ch Freq 2.452 GHz Trig Free Occupied Bandwidth Center 2.452000000 GHz Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 80 MHz Occupied Bandwidth 36.1939 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 10.380 kHz x dB Bandwidth 36.298 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2

APPENDIX C

RF Output Power					
Test Mode	Frequency MHz	Antenna 0 dBm	Antenna 1 dBm	Total Power dBm	Limit dBm
802.11b _1Mbps	2412	15.28	13.32	/	30.00
	2437	15.69	13.29	/	30.00
	2462	15.95	13.05	/	30.00
802.11g_6Mbps	2412	14.37	13.24	/	30.00
	2437	14.50	13.18	/	30.00
	2462	14.36	13.37	/	30.00
802.11n HT20_MCS0	2412	13.75	11.65	15.84	30.00
	2437	13.84	12.78	16.35	30.00
	2462	13.70	12.43	16.12	30.00
802.11n HT40_MCS0	2422	12.75	11.30	15.10	30.00
	2437	12.26	11.36	14.84	30.00
	2452	12.21	11.28	14.78	30.00

Antenna 0

802.11b-Low	Agilent R T Ch Freq 2.412 GHz Channel Power Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Avg 10 Log dB/ Offst 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 15.28 dBm / 20.0000 MHz -57.73 dBm/Hz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39700000 GHz Stop Freq 2.42700000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11b-Middle	Agilent R T Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg 10 Log dB/ Offst 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 15.69 dBm / 20.0000 MHz -57.32 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11b-High	Agilent R T Ch Freq 2.462 GHz Channel Power Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Avg 10 Log dB/ Offst 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 15.95 dBm / 20.0000 MHz -57.07 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11g-Low	Agilent Ch Freq 2.412 GHz Channel Power Center 2.412000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 14.37 dBm / 20.0000 MHz -58.64 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-Middle	Agilent Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 14.50 dBm / 20.0000 MHz -58.51 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-High	Agilent Ch Freq 2.462 GHz Channel Power Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 14.36 dBm / 20.0000 MHz -58.65 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT20-Low	Agilent Ch Freq 2.412 GHz Channel Power Center 2.41200000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 13.75 dBm / 20.0000 MHz -59.26 dBm/Hz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39700000 GHz Stop Freq 2.42700000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11n-HT20-Middle	Agilent Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 13.84 dBm / 20.0000 MHz -59.17 dBm/Hz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent Ch Freq 2.462 GHz Channel Power Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 13.70 dBm / 20.0000 MHz -59.35 dBm/Hz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT40-Low	Agilent Ch Freq 2.422 GHz Channel Power RBW 1.000000000 MHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 60 MHz Channel Power Power Spectral Density 12.75 dBm / 40.0000 MHz -63.27 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-Middle	Agilent Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 60 MHz Channel Power Power Spectral Density 12.26 dBm / 40.0000 MHz -63.76 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent Ch Freq 2.452 GHz Channel Power Center 2.452000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 60 MHz Channel Power Power Spectral Density 12.21 dBm / 40.0000 MHz -63.81 dBm/Hz Freq/Channel Center Freq 2.45200000 GHz Start Freq 2.42200000 GHz Stop Freq 2.48200000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

Antenna 1

802.11b-Low	Agilent Ch Freq 2.412 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.412 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Channel Power Power Spectral Density 13.32 dBm / 20.0000 MHz -59.70 dBm/Hz Trace/View Trace 123 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11b-Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.437 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Channel Power Power Spectral Density 13.29 dBm / 20.0000 MHz -59.72 dBm/Hz Trace/View Trace 123 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11b-High	Agilent Ch Freq 2.462 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.462 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Channel Power Power Spectral Density 13.05 dBm / 20.0000 MHz -59.96 dBm/Hz Trace/View Trace 123 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11g-Low	Agilent Ch Freq 2.412 GHz Channel Power Center 2.412000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 13.24 dBm / 20.0000 MHz -59.78 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-Middle	Agilent Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 13.18 dBm / 20.0000 MHz -59.83 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-High	Agilent Ch Freq 2.462 GHz Channel Power Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offst 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 13.37 dBm / 20.0000 MHz -59.64 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

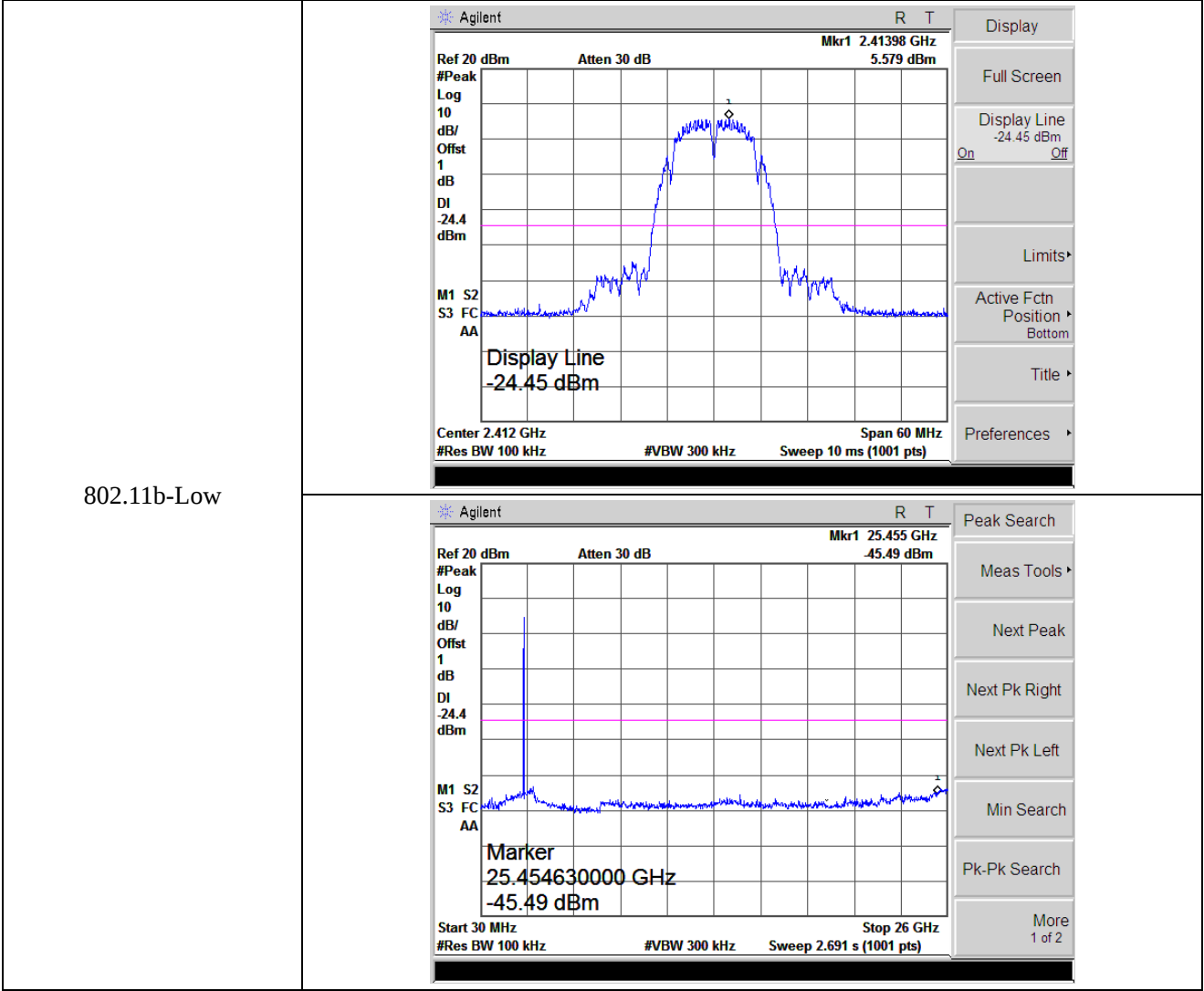
802.11n-HT20-Low	Agilent Ch Freq 2.412 GHz Channel Power Center 2.412000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 11.65 dBm / 20.0000 MHz -61.36 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-Middle	Agilent Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 12.78 dBm / 20.0000 MHz -60.23 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent Ch Freq 2.462 GHz Channel Power Center 2.462000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 20 ms (1001 pts) Span 30 MHz Channel Power Power Spectral Density 12.43 dBm / 20.0000 MHz -60.58 dBm/Hz Freq/Channel Center Freq 2.46200000 GHz Start Freq 2.44700000 GHz Stop Freq 2.47700000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

802.11n-HT40-Low	Agilent Ch Freq 2.422 GHz Channel Power Center 2.422000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 60 MHz Channel Power Power Spectral Density 11.30 dBm / 40.0000 MHz -64.72 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-Middle	Agilent Ch Freq 2.437 GHz Channel Power Center 2.437000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 60 MHz Channel Power Power Spectral Density 11.36 dBm / 40.0000 MHz -64.52 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent Ch Freq 2.452 GHz Channel Power Center 2.452000000 GHz Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts) Span 60 MHz Channel Power Power Spectral Density 11.28 dBm / 40.0000 MHz -64.74 dBm/Hz Freq/Channel Center Freq 2.45200000 GHz Start Freq 2.42200000 GHz Stop Freq 2.48200000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

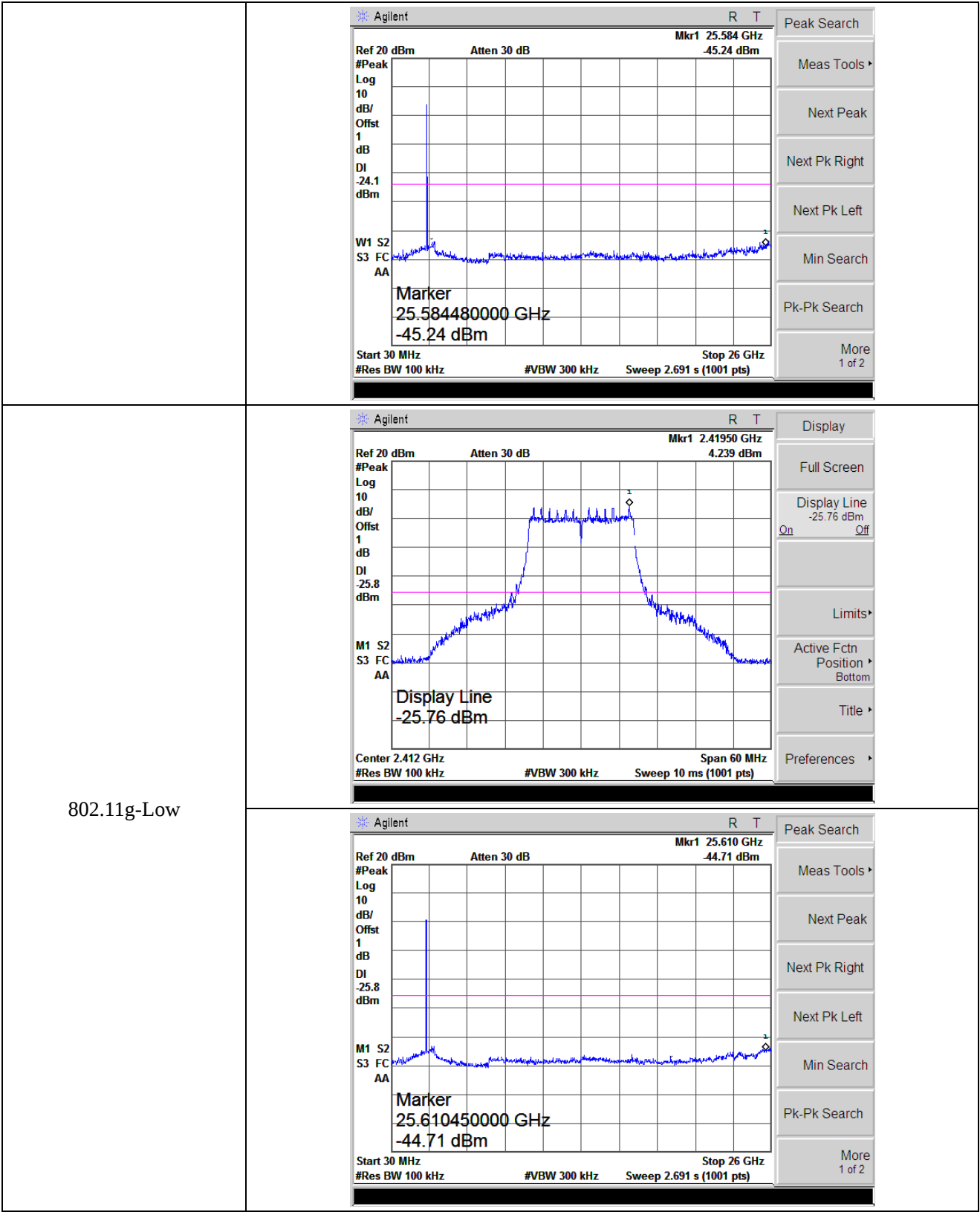
APPENDIX D

Conducted Out of Band Emissions

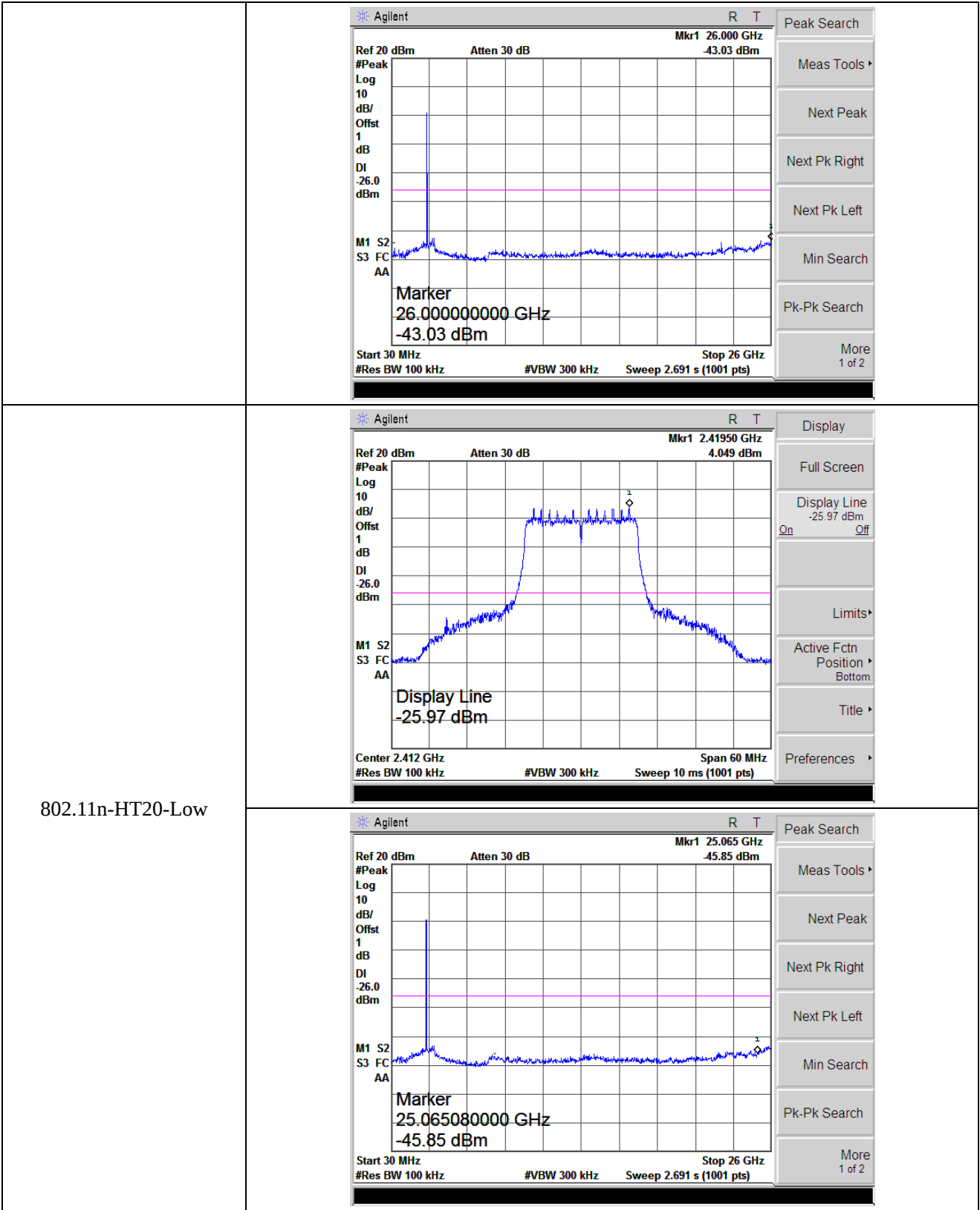
Antenna 0



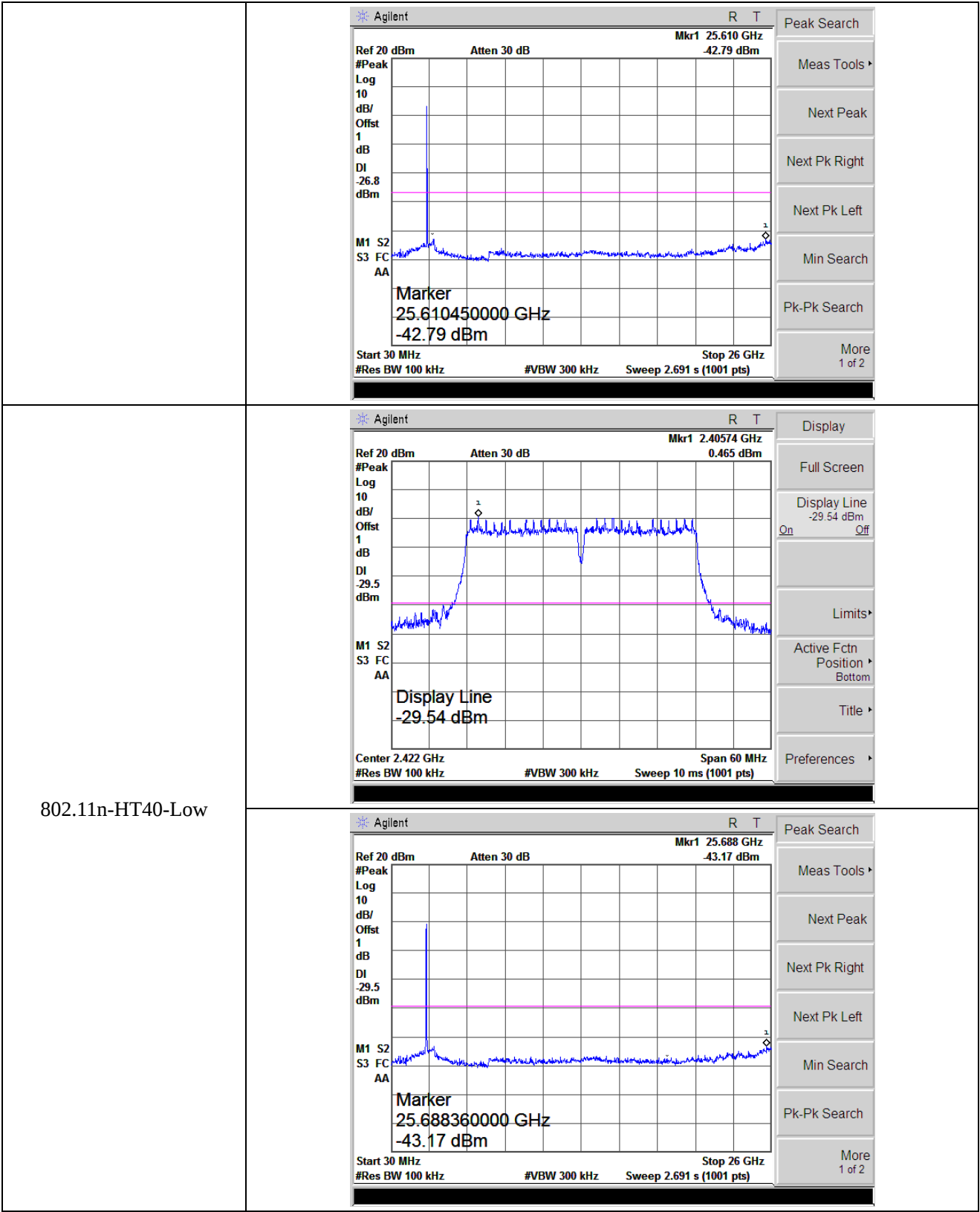
802.11b-Middle	Agilent R T Mkr1 2.4350 GHz 5.692 dBm Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB DI -24.3 dBm M1 S2 S3 FC AA Display Line -24.31 dBm Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -24.31 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent R T Mkr1 25.922 GHz -44.26 dBm Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB DI -24.3 dBm M1 S2 S3 FC AA Marker 25.922090000 GHz -44.26 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-High	Agilent R T Mkr1 2.46350 GHz 5.916 dBm Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB DI -24.1 dBm M1 S2 S3 FC AA Display Line -24.13 dBm Center 2.462 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -24.13 dBm On Off Limits Active Fctn Position Bottom Title Preferences

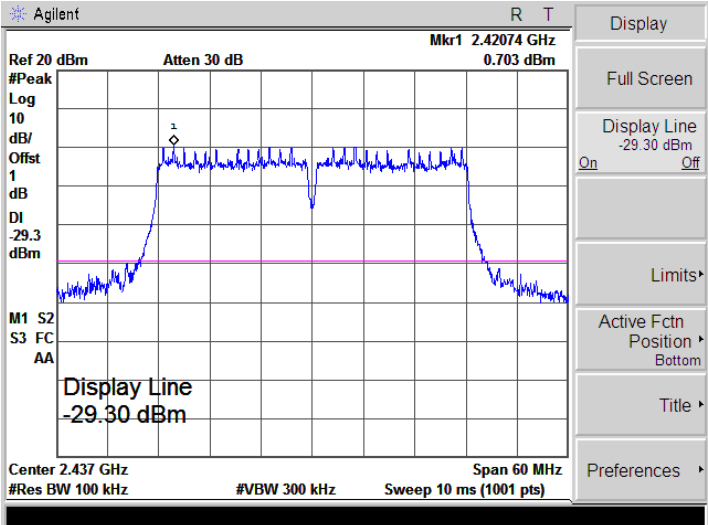
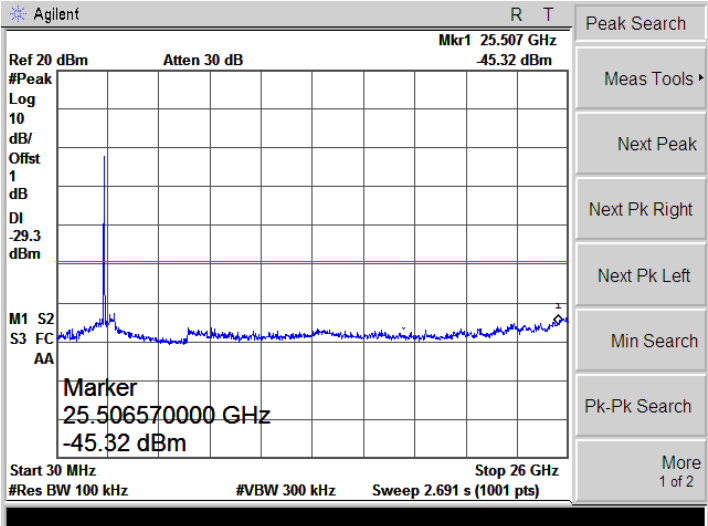
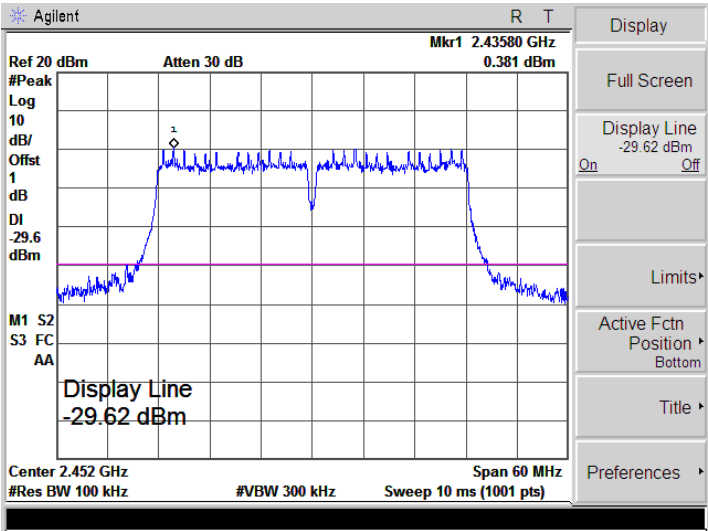


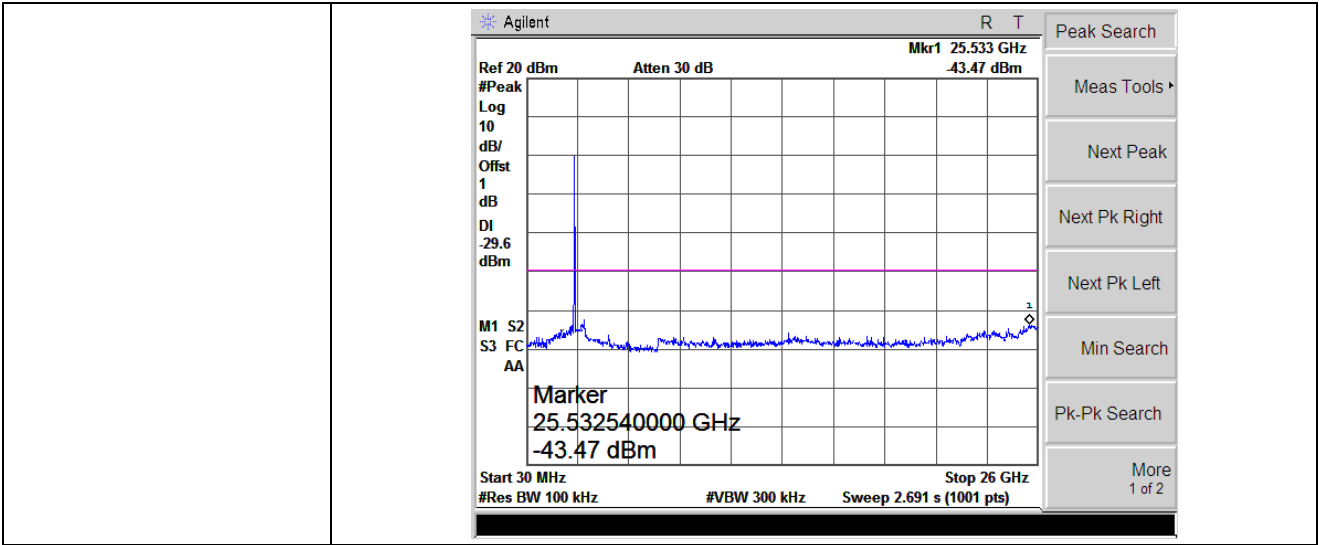
802.11g-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.42956 GHz 4.043 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.0 dBm M1 S2 S3 FC AA Display Line -25.96 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Display Full Screen Display Line -25.96 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.89 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.0 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.89 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Stop 26 GHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-High	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.45450 GHz 3.983 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.0 dBm M1 S2 S3 FC AA Display Line -26.02 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Display Full Screen Display Line -26.02 dBm On Off Limits Active Fctn Position Bottom Title Preferences



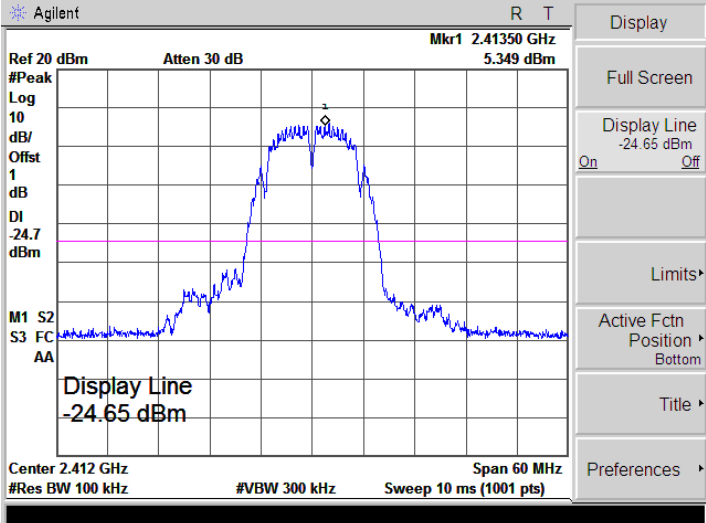
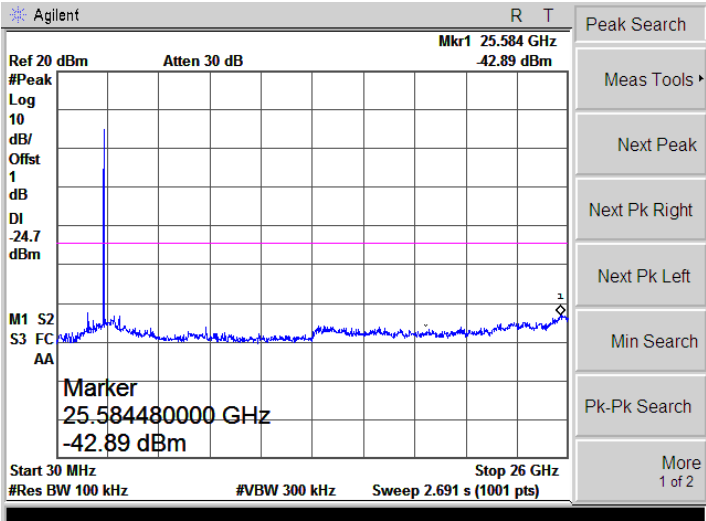
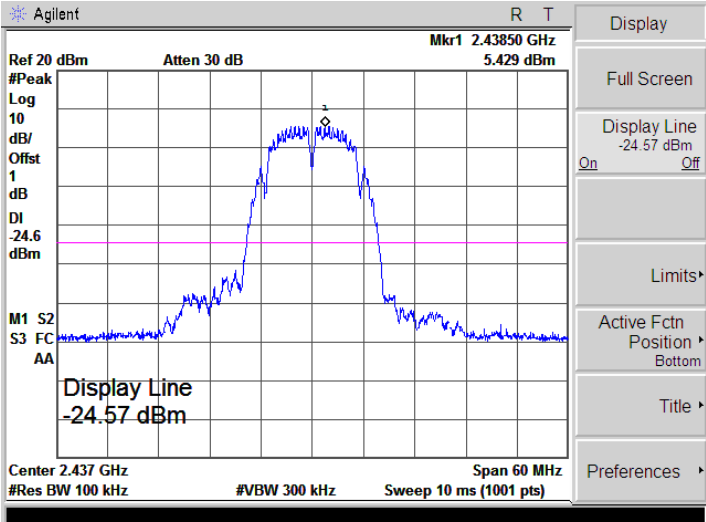
802.11n-HT20-Middle	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.44450 GHz 3.867 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.2 dBm M1 S2 S3 FC AA Display Line -26.19 dBm Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -26.19 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.195 GHz -44.49 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.2 dBm M1 S2 S3 FC AA Marker 25.194930000 GHz -44.49 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-High	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46326 GHz 3.231 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.8 dBm M1 S2 S3 FC AA Display Line -26.77 dBm Center 2.462 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -26.77 dBm On Off Limits Active Fctn Position Bottom Title Preferences

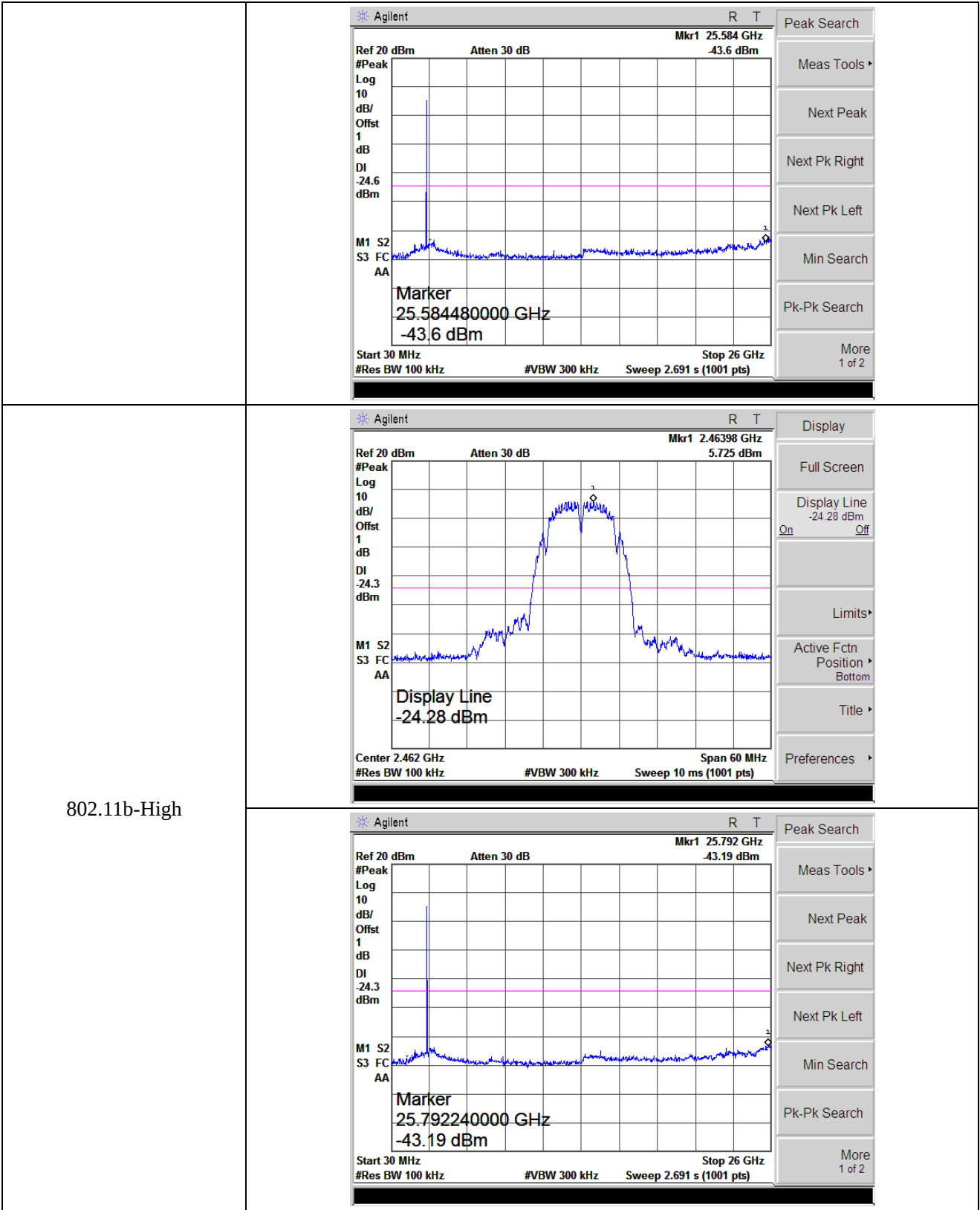


802.11n-HT40-Middle	
	
802.11n-HT40-High	



Antenna 1

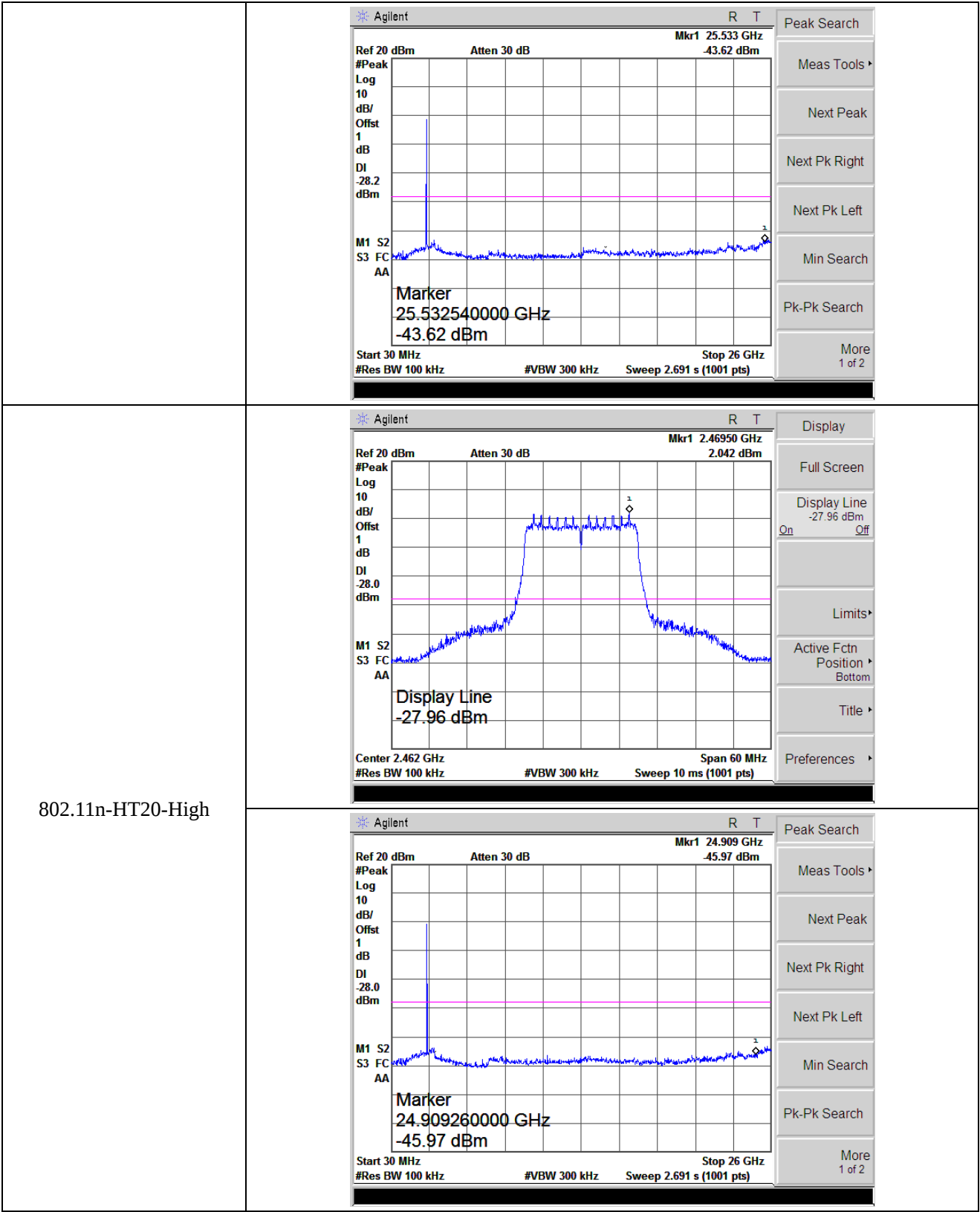
802.11b-Low	
	
802.11b-Middle	



802.11g-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.41950 GHz 3.085 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.9 dBm M1 S2 S3 FC AA Display Line -26.92 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Display Full Screen Display Line -26.92 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent Ref 20 dBm Atten 30 dB Mkr1 25.481 GHz -43.78 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.480600000 GHz -43.78 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Stop 26 GHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.44450 GHz 2.938 dBm #Peak Log 10 dB/ Offst 1 dB DI -27.1 dBm M1 S2 S3 FC AA Display Line -27.07 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Display Full Screen Display Line -27.07 dBm On Off Limits Active Fctn Position Bottom Title Preferences

	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.559 GHz -43.76 dBm #Peak Log 10 dB/ Offst 1 dB DI -27.1 dBm M1 S2 S3 FC AA Marker 25.558510000 GHz -43.76 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-High	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46950 GHz 3.154 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.9 dBm M1 S2 S3 FC AA Display Line -26.86 dBm Center 2.462 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -26.86 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶
	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.636 GHz -43.73 dBm #Peak Log 10 dB/ Offst 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.636420000 GHz -43.73 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT20-Low	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.41950 GHz 2.184 dBm #Peak Log 10 dB/ Offst 1 dB DI -27.8 dBm M1 S2 S3 FC AA Display Line -27.82 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Display Full Screen Display Line -27.82 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent Ref 20 dBm Atten 30 dB Mkr1 25.377 GHz -44.83 dBm #Peak Log 10 dB/ Offst 1 dB DI -27.8 dBm M1 S2 S3 FC AA Marker 25.376720000 GHz -44.83 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Stop 26 GHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-Middle	Agilent Ref 20 dBm Atten 30 dB Mkr1 2.42950 GHz 1.849 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.2 dBm M1 S2 S3 FC AA Display Line -28.15 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Display Full Screen Display Line -28.15 dBm On Off Limits Active Fctn Position Bottom Title Preferences



802.11n-HT40-Low	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.40574 GHz 2.026 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.0 dBm M1 S2 S3 FC AA Display Line -27.97 dBm Center 2.422 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -27.97 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.143 GHz -45.2 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.0 dBm M1 S2 S3 FC AA Marker 25.142990000 GHz -45.2 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-Middle	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.42080 GHz 1.848 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.2 dBm M1 S2 S3 FC AA Display Line -28.15 dBm Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -28.15 dBm On Off Limits Active Fctn Position Bottom Title Preferences

	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 26.000 GHz -44.86 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.2 dBm M1 S2 S3 FC AA Marker 26.000000000 GHz -44.86 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 <tr><td rowspan="2">802.11n-HT40-High</td><td> Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46952 GHz 1.474 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Display Line -28.54 dBm Center 2.452 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -28.54 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.05 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.05 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr></td></tr>	802.11n-HT40-High	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46952 GHz 1.474 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Display Line -28.54 dBm Center 2.452 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -28.54 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.05 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.05 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.05 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.05 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-High	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46952 GHz 1.474 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Display Line -28.54 dBm Center 2.452 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -28.54 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.05 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.05 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>		Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.05 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.05 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2	
	Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.584 GHz -44.05 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.5 dBm M1 S2 S3 FC AA Marker 25.584480000 GHz -44.05 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2			

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******