



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-247 ISSUE 2**

DTS Wireless LAN

CERTIFICATION TEST REPORT

FOR

BT/BLE and DTS b/g/n Wrist device

MODEL NUMBER : SM-R365

FCC ID: A3LSMR365

IC ID: 649E-SMR365

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Prepared for

**SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA**

Prepared by

**UL Korea, Ltd. Suwon Laboratory
218 Maeyeong-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16675, Korea
TEL: (031) 337-9902
FAX: (031) 213-5433**



Revision History

Rev.	Issue Date	Revisions	Revised By
V1	06/15/17	Initial issue	Junwhan Lee
V2	07/12/17	Addressed TCB's question	Junwhan Lee

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: BT/BLE and DTS b/g/n Wrist device

MODEL NUMBER: SM-R365

SERIAL NUMBER: R3AJ600185X, R3AJ600183R, R3AJ600184E (RADIATED);
R3AJ600186P (CONDUCTED)

DATE TESTED: MAY 29, 2017 - JUN 09, 2017

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-247 Issue 2	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:



SungGil Park
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. IC RSS-GEN Issue 4
4. IC RSS-247 Issue 2
5. KDB 558074 D01 DTS Meas Guidance v04.
6. ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro
☒ Chamber 1
☒ Chamber 2

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/PDF/TL/TL-637.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.32 dB
Radiated Disturbance, Below 1GHz	4.14 dB
Radiated Disturbance, Above 1 GHz	5.97 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a BT/BLE and DTS b/g/n Wrist device.
This test report addresses the DTS (WLAN) operational mode.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows:

Frequency Range [MHz]	Mode	Output Power [dBm]	Output Power [mW]
2412 - 2472	802.11b	13.70	23.44
	802.11g	12.07	16.11
	802.11n HT20	11.04	12.71

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antennas, with a antenna's maximum gain of -7.33 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission below 1GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1GHz was performed with the EUT set to transmit low/mid/high channels.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20 mode: MCS0

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Adapter	SAMSUNG	ETA0U60JBE	RT2H608ES/7- E	N/A
Wireless Charger	SAMSUNG	EP-YB360	R37J4VA8PC2RT3	N/A

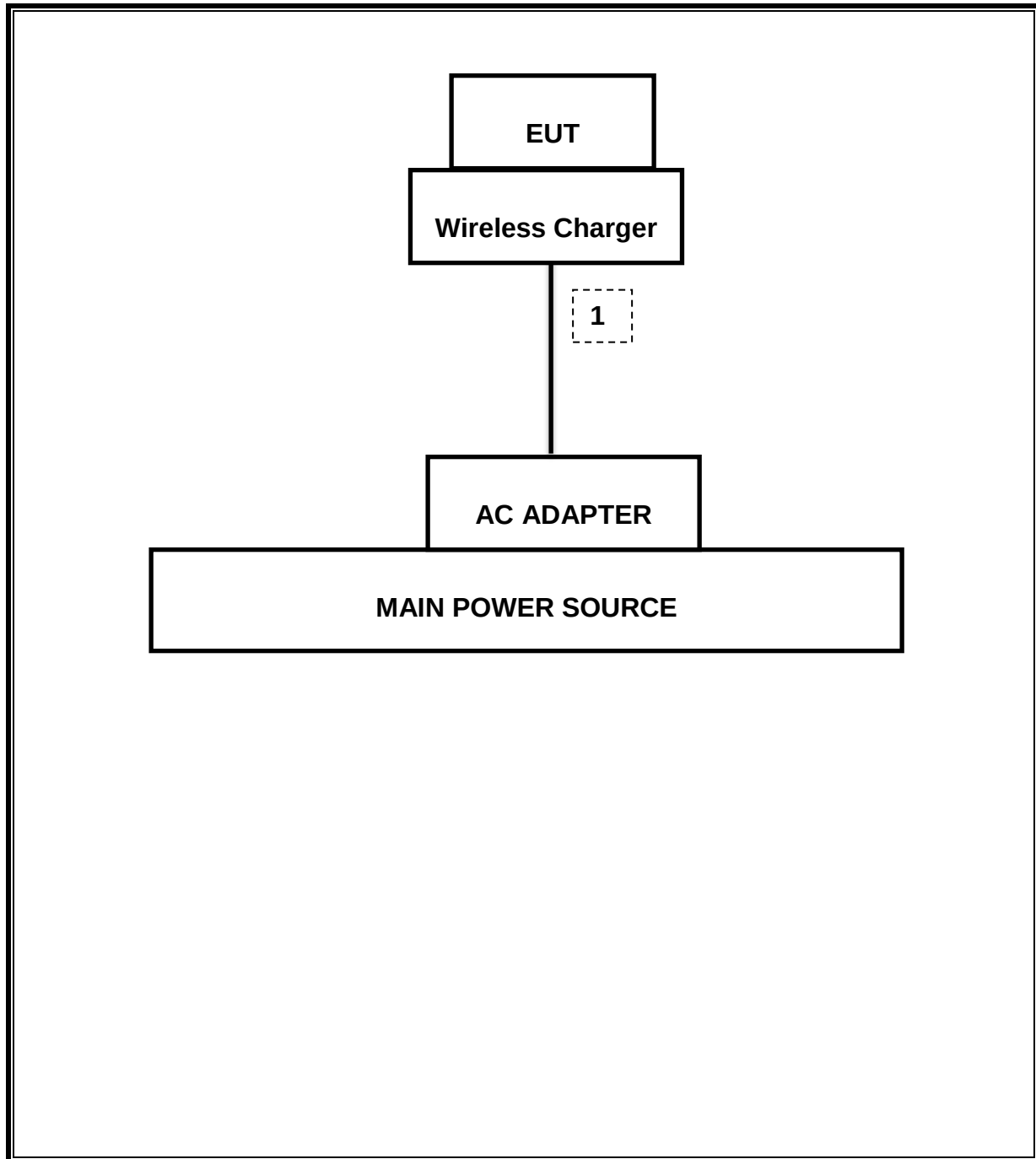
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	USB	Un-Shielded	1 m	N/A

TEST SETUP

The EUT is a stand-alone unit during the tests.
Test software in hidden menu exercised the EUT to enable DTS mode.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	10-14-18
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	04-25-17
				04-14-19
Antenna, Horn, 18 GHz	ETS	3115	00167211	10-14-18
Antenna, Horn, 18 GHz	ETS	3117	00168724	06-17-17
				05-31-19
Antenna, Horn, 18 GHz	ETS	3117	00168717	06-17-17
				05-31-19
Antenna, Horn, 40 GHz	ETS	3116C	00166155	11-30-17
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	12-15-17
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-17-17
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-16-17
Preamplifier	ETS	3115-PA	00167475	08-17-17
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-16-17
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	08-17-17
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	03-09-18
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	11-25-17
Average Power Sensor	R&S	NRP-Z91	102681	08-16-17
Average Power Sensor	Agilent / HP	U2000	MY54270007	08-17-17
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-17-17
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-16-17
EMI Test Receive, 3 GHz	R&S	ESR3	101832	08-16-17
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	08-17-17
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	015	08-16-17
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	08-17-17
High Pass Filter 3GHz	Micro-Tronics	HPM17543	015	08-16-17
High Pass Filter 6GHz	Micro-Tronics	HPM17542	009	08-17-17
High Pass Filter 6GHz	Micro-Tronics	HPM17542	016	08-16-17
LISN	R&S	ENV-216	101837	08-16-17
Attenuator	PASTERNAK	PE7087-10	A009	08-16-17
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

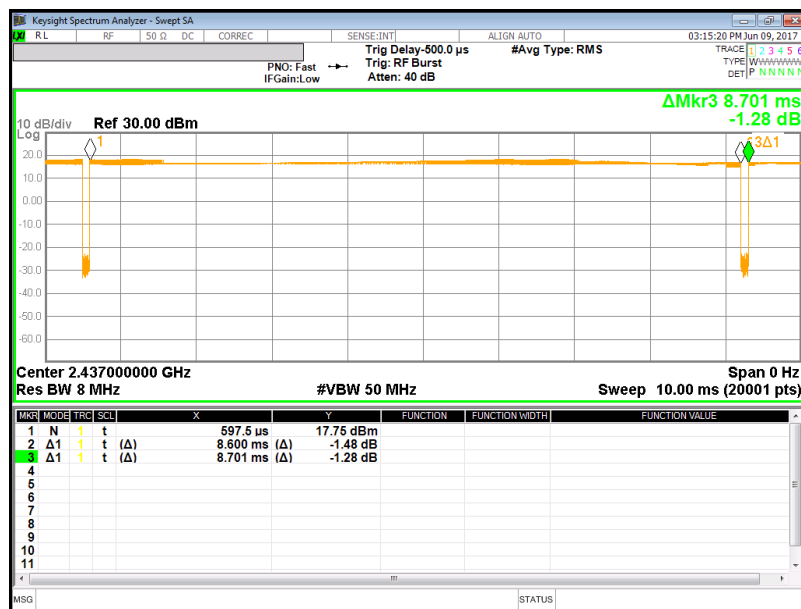
7. REFERENCE MEASUREMENT RESULTS

7.1. ON TIME AND DUTY CYCLE RESULTS

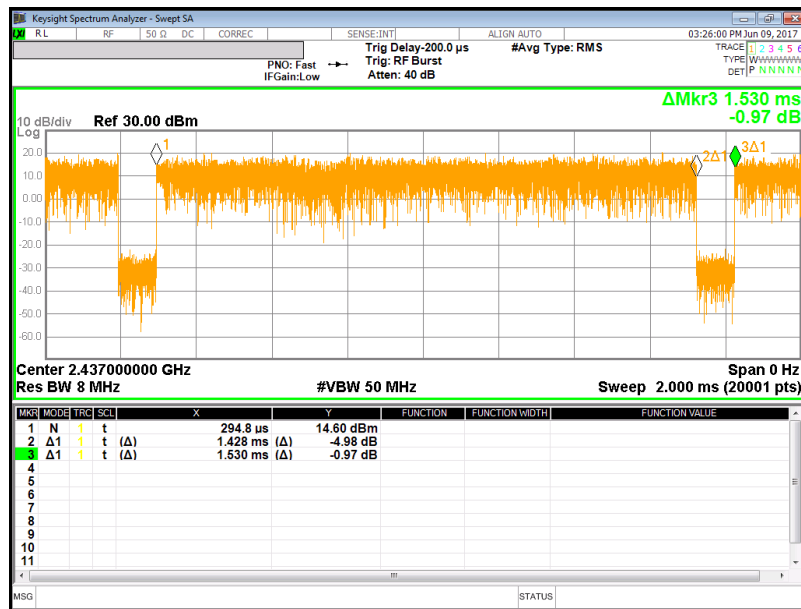
LIMITS

None; for reporting purposes only.

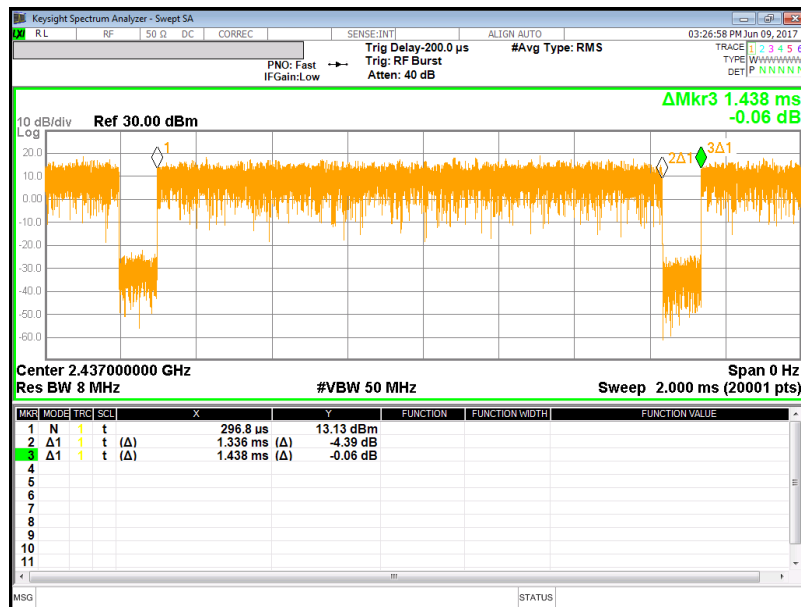
Mode	ON Time B [msec]	Period [msec]	Duty Cycle x [linear]	Duty Cycle [%]	Duty Cycle Correction Factor [dB]	1/T Minimum VBW [kHz]
2400MHz Bands						
802.11b	8.6	8.701	0.988	98.8%	0.00	0.010
802.11g	1.428	1.53	0.933	93.3%	0.30	0.700
802.11n HT20	1.336	1.438	0.929	92.9%	0.32	0.749



[802.11b]



[802.11g]



[802.11n]

7.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

7.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]
Low	2412	14.045
Mid	2437	14.035
High	2462	14.085
12	2467	14.222
13	2472	13.863
Worst		14.222

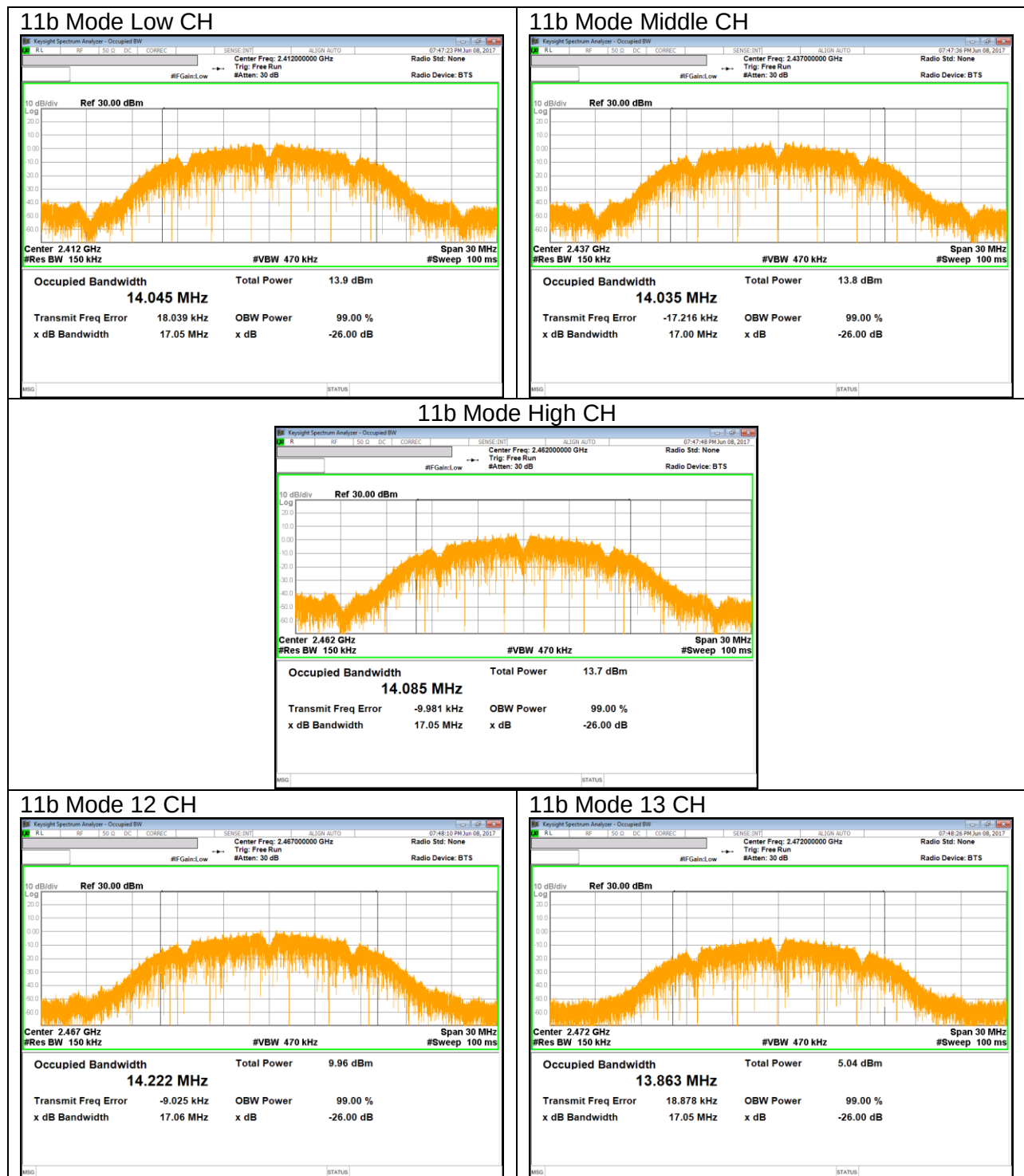
7.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]
Low	2412	16.310
Mid	2437	16.254
High	2462	16.280
12	2467	16.316
13	2472	16.311
Worst		16.316

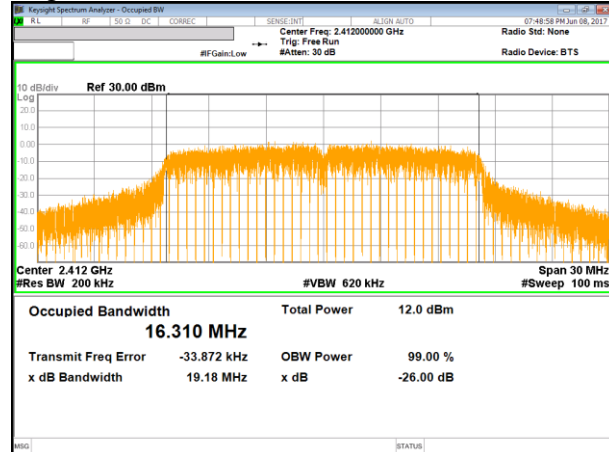
7.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	99% Bandwidth [MHz]
Low	2412	17.413
Mid	2437	17.499
High	2462	17.454
12	2467	17.499
13	2472	17.472
Worst		17.499

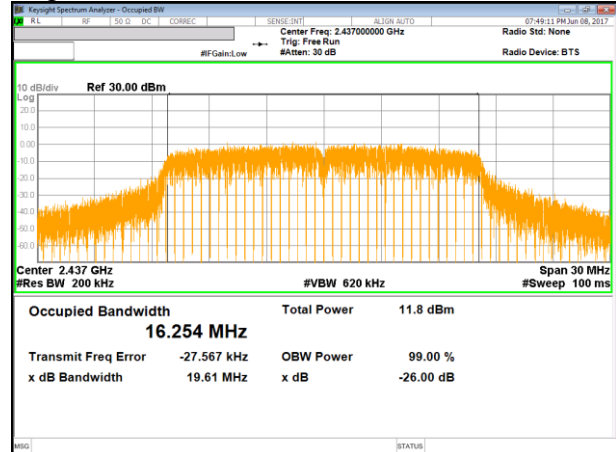
7.2.4. 99% BANDWIDTH PLOTS



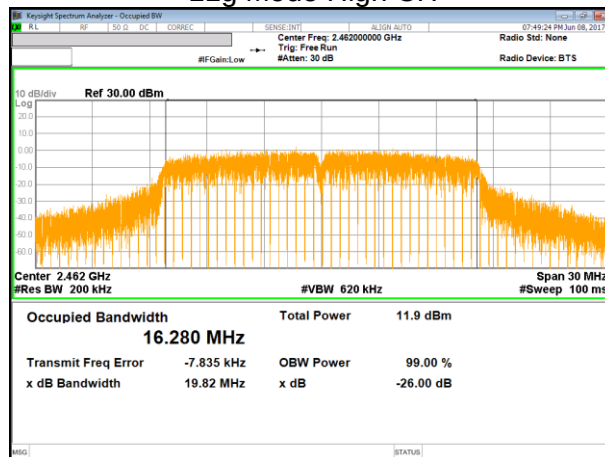
11g Mode Low CH



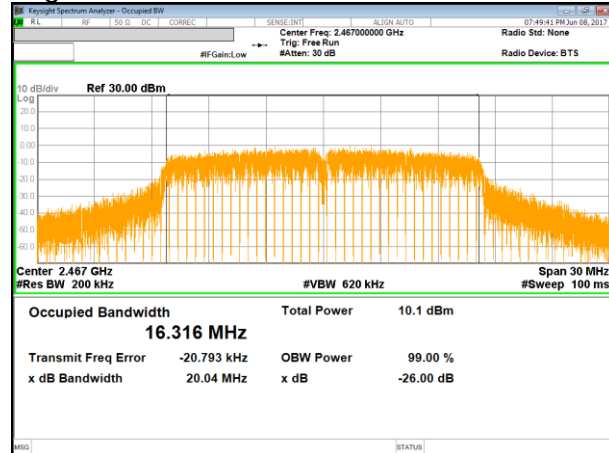
11g Mode Middle CH



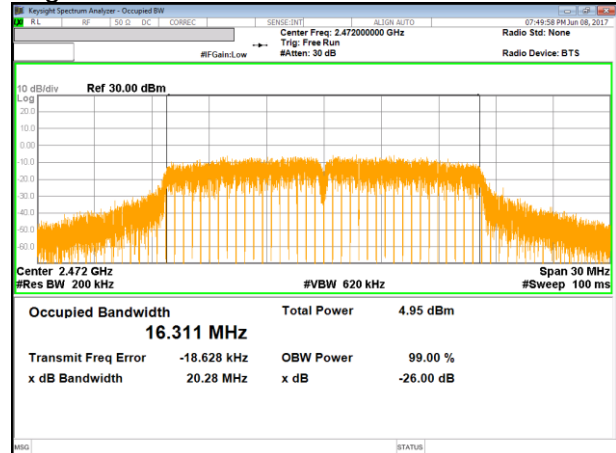
11g Mode High CH



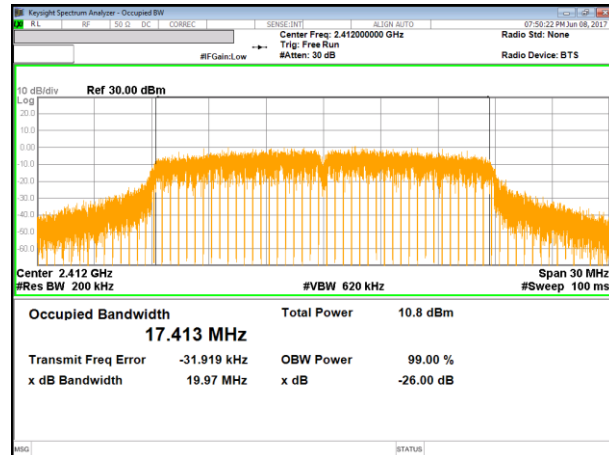
11g Mode 12 CH



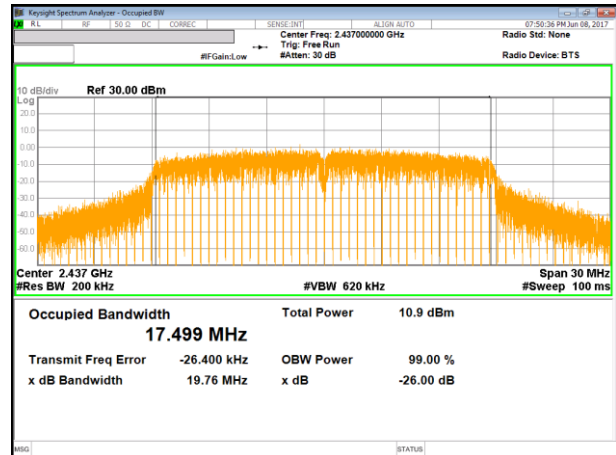
11g Mode 13 CH



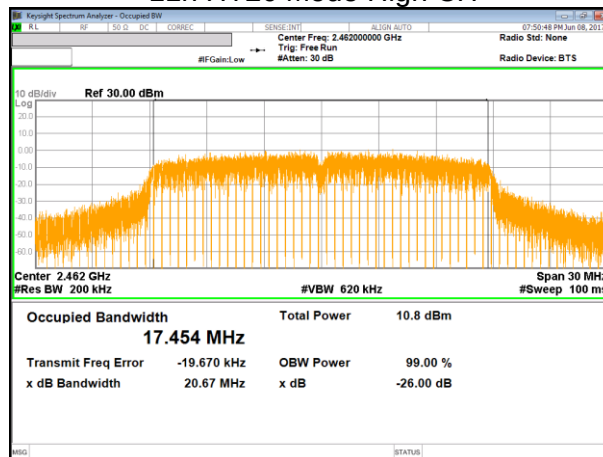
11n HT20 Mode Low CH



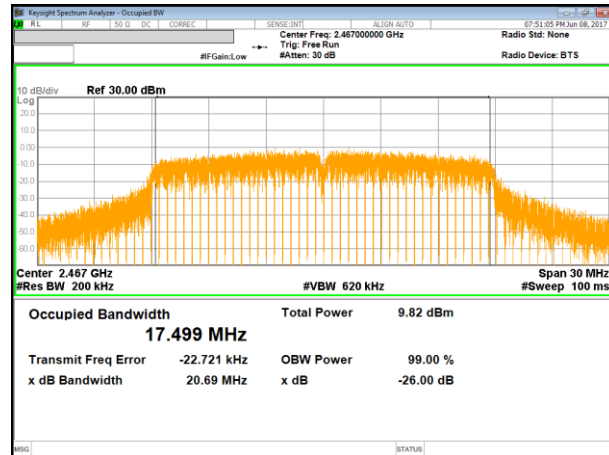
11n HT20 Mode Middle CH



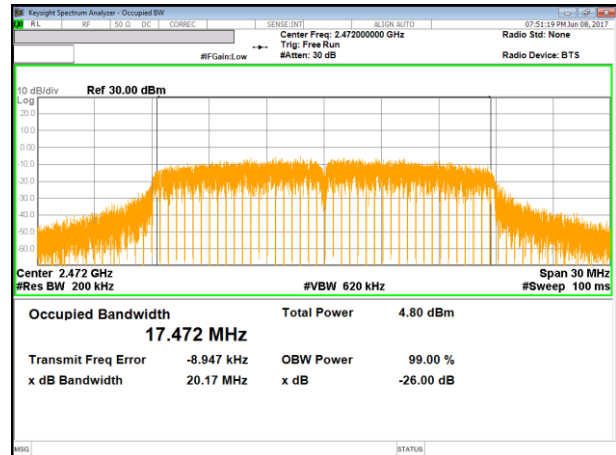
11n HT20 Mode High CH



11n Mode 12 CH



11n Mode 13 CH



8. SUMMARY TABLE

FCC Part Section	IC Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-247 5.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.057 MHz
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-30dBc		Pass	-32.152 dBm
15.247 (b)(3)	RSS-247 5.4(d)	TX conducted output power	<30dBm		Pass	13.7 dBm
15.247 (e)	RSS-247 5.2(b)	PSD	<8dBm		Pass	-16.998 dBm
15.207 (a)	RSS-GEN Clause 7 & 8.9	AC Power Line conducted emissions	Section 10	Power Line conducted	Pass	43.47 dBuV (Pk)
15.205, 15.209	RSS-GEN Clause 8.8	Radiated Spurious Emission	< 54dBuV/m	Radiated	Pass	51.86 dBuV/m (Av)

9. ANTENNA PORT TEST RESULTS

9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)
IC RSS-247 §5.2 (a)

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

TEST PROCEDURE

Reference to KDB 558074 D01 DTS Meas Guidance v04: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Minimum Limit [MHz]
Low	2412	8.535	0.5
Mid	2437	9.535	0.5
High	2462	9.526	0.5
12	2467	8.538	0.5
13	2472	8.057	0.5
Worst		8.057	0.5

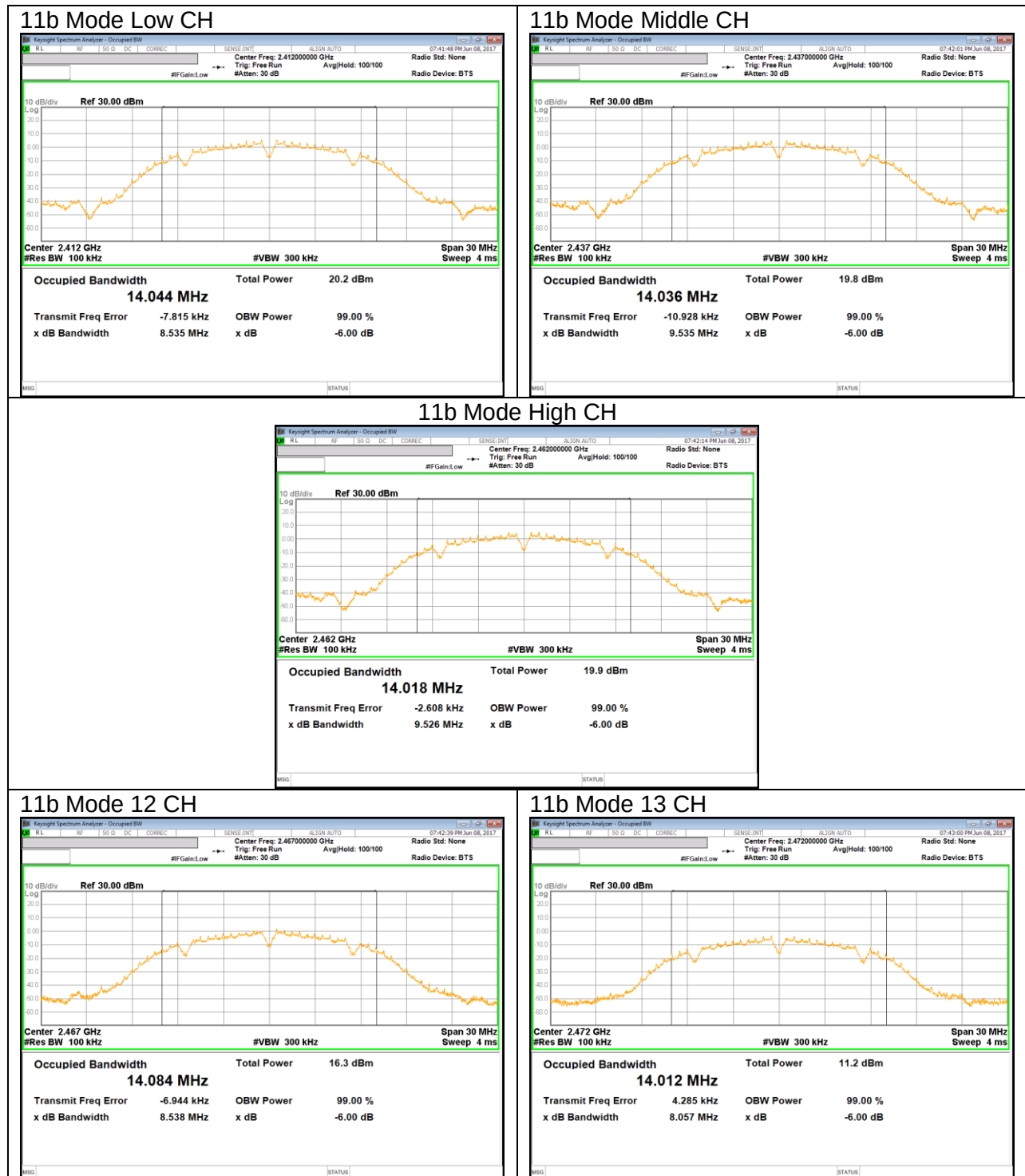
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Minimum Limit [MHz]
Low	2412	14.750	0.5
Mid	2437	14.170	0.5
High	2462	14.680	0.5
12	2467	15.040	0.5
13	2472	15.000	0.5
Worst		14.170	0.5

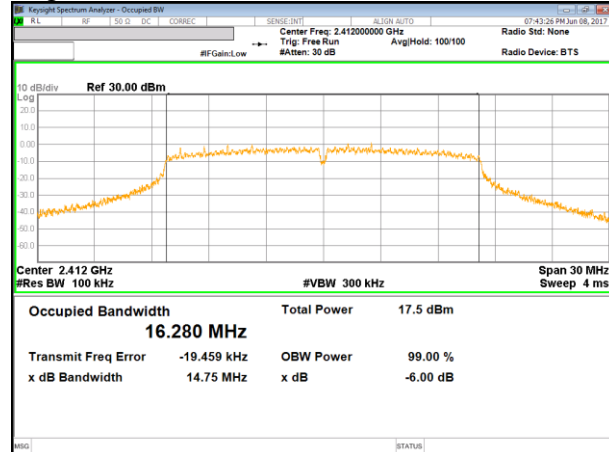
9.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Minimum Limit [MHz]
Low	2412	12.770	0.5
Mid	2437	15.000	0.5
High	2462	15.240	0.5
12	2467	14.070	0.5
13	2472	13.890	0.5
Worst		12.770	0.5

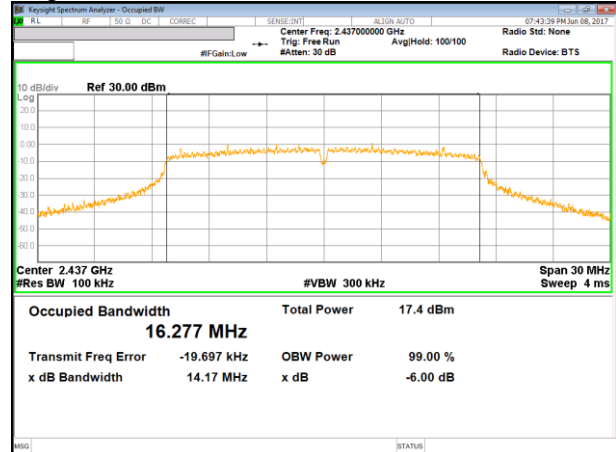
9.1.4. 6 dB BANDWIDTH PLOTS



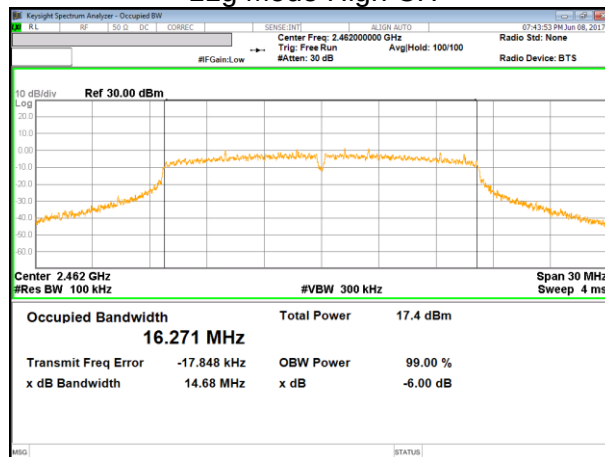
11g Mode Low CH



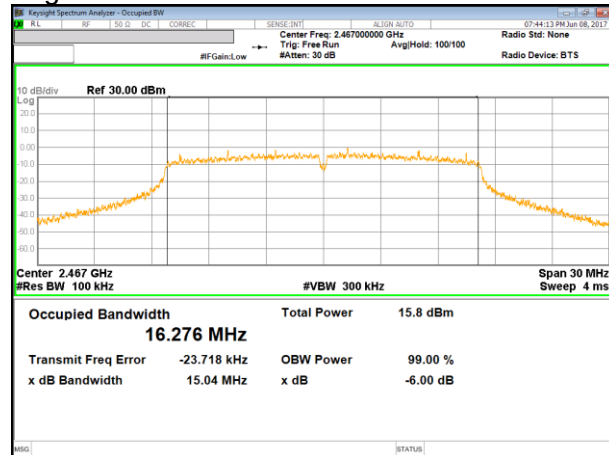
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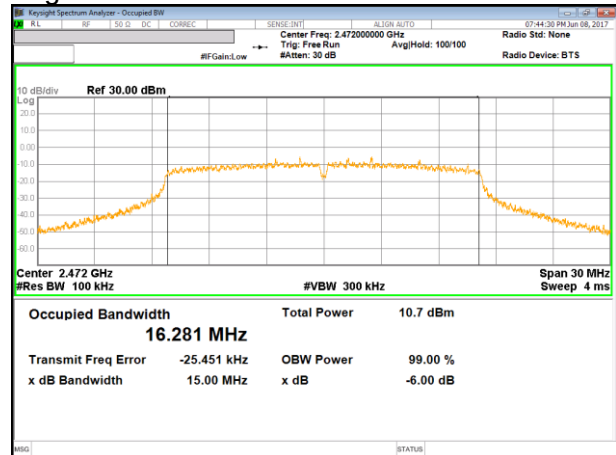
11g Mode High CH



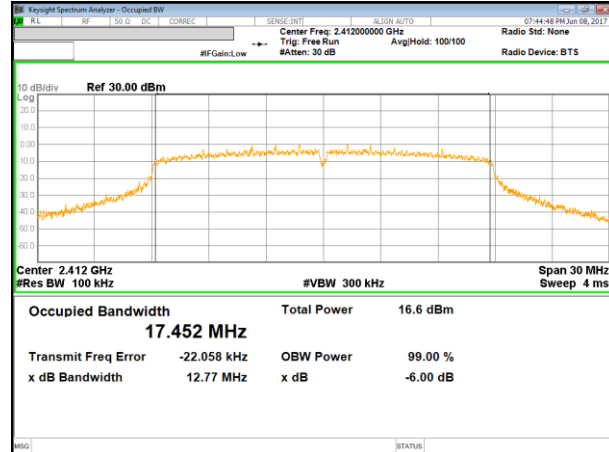
11g Mode 12 CH



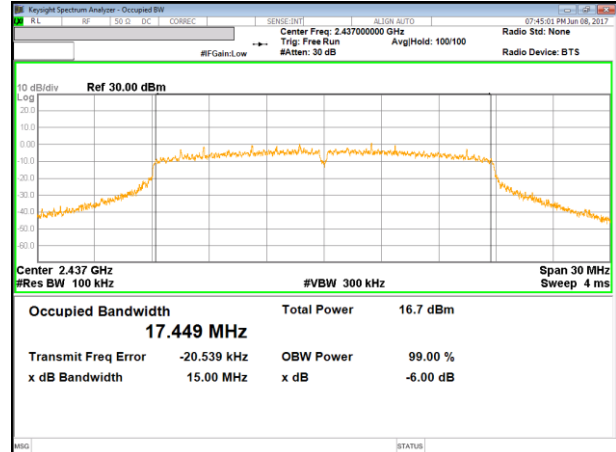
11g Mode 13 CH



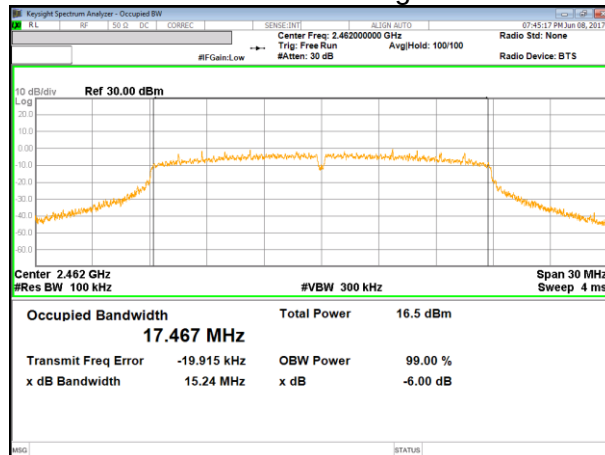
11n HT20 Mode Low CH



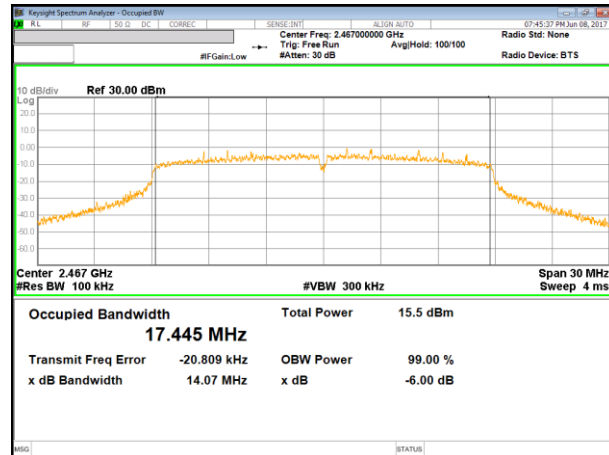
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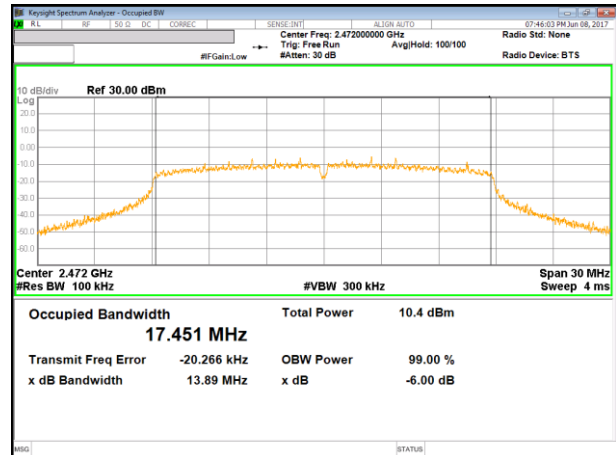
11n HT20 Mode High CH



11n Mode 12 CH



11n Mode 13 CH



9.2. OUTPUT POWER

LIMITS

FCC §15.247
IC RSS-247 §5.4 (d)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss was entered as an offset in the power meter to allow for direct reading of power.

Output power measurement was performed utilizing the “§9.2.3.1 AVGPM” under KDB558074 D01 DTS Meas Guidance v04.

Duty cycle correction factor is already added to the average output power results for duty cycle factor < 98%. (802.11g, 802.11n mode)

RESULTS

9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	Max Power [dBm]
Low	2412	-7.33	30.00	30.00
Mid	2437	-7.33	30.00	30.00
High	2462	-7.33	30.00	30.00
12	2467	-7.33	30.00	30.00
13	2472	-7.33	30.00	30.00

Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	13.70	13.70	30.00	-16.30
Mid	2437	13.68	13.68	30.00	-16.32
High	2462	13.65	13.65	30.00	-16.35
12	2467	10.01	10.01	30.00	-19.99
13	2472	5.08	5.08	30.00	-24.92
Worst			13.70	30.00	-16.30

9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	Max Power [dBm]
Low	2412	-7.33	30.00	30.00
Mid	2437	-7.33	30.00	30.00
High	2462	-7.33	30.00	30.00
12	2467	-7.33	30.00	30.00
13	2472	-7.33	30.00	30.00

Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	12.03	12.03	30.00	-17.97
Mid	2437	12.07	12.07	30.00	-17.93
High	2462	12.01	12.01	30.00	-17.99
12	2467	10.29	10.29	30.00	-19.71
13	2472	5.22	5.22	30.00	-24.78
Worst			12.07	30.00	-17.93

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency [MHz]	Directional Gain Primary [dBi]	FCC Power Limit [dBm]	Max Power [dBm]
Low	2412	-7.33	30.00	30.00
Mid	2437	-7.33	30.00	30.00
High	2462	-7.33	30.00	30.00
12	2467	-7.33	30.00	30.00
13	2472	-7.33	30.00	30.00

Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Margin [dB]
Low	2412	11.01	11.01	30.00	-18.99
Mid	2437	11.04	11.04	30.00	-18.96
High	2462	10.97	10.97	30.00	-19.03
12	2467	10.01	10.01	30.00	-19.99
13	2472	5.05	5.05	30.00	-24.95
Worst			11.04	30.00	-18.96

9.3. PSD

LIMITS

FCC §15.247
IC RSS-247 §5.2 (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

Power Spectral Density was performed utilizing the “Method §10.3 AVGPDS-1 (802.11 b mode) and §10.5 AVGPDS-2(802.11 g/n mode)” under KDB558074 D01 DTS Meas Guidance v04.

RESULTS

9.3.1. 802.11b MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-17.394	0.00	-17.394	8.00	-25.394
Mid	2437	-17.223	0.00	-17.223	8.00	-25.223
High	2462	-16.998	0.00	-16.998	8.00	-24.998
12	2467	-20.883	0.00	-20.883	8.00	-28.883
13	2472	-26.114	0.00	-26.114	8.00	-34.114

9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

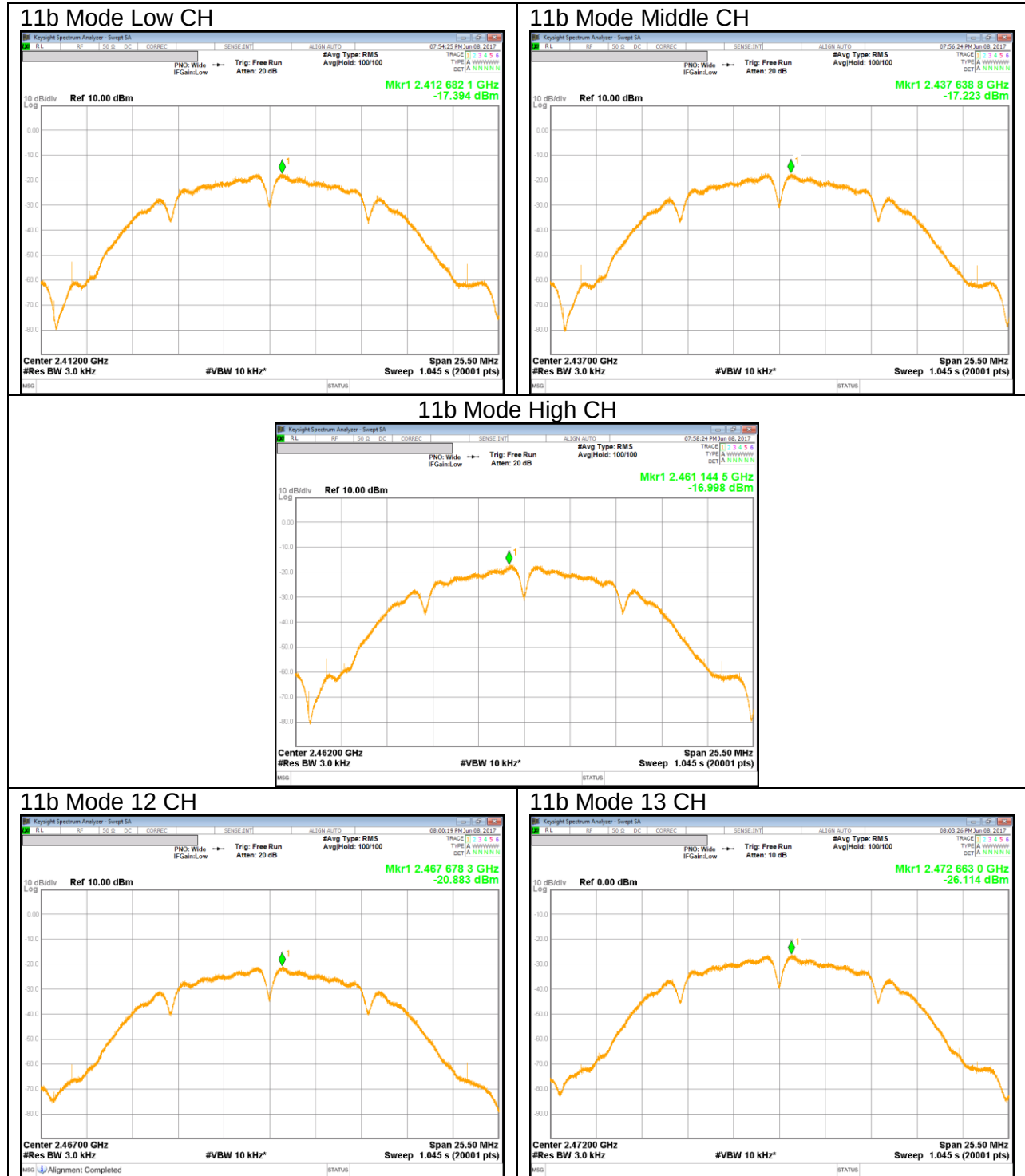
Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-21.12	0.30	-20.820	8.00	-29.120
Mid	2437	-21.354	0.30	-21.054	8.00	-29.354
High	2462	-21.351	0.30	-21.051	8.00	-29.351
12	2467	-22.954	0.30	-22.654	8.00	-30.954
13	2472	-28.406	0.30	-28.106	8.00	-36.406

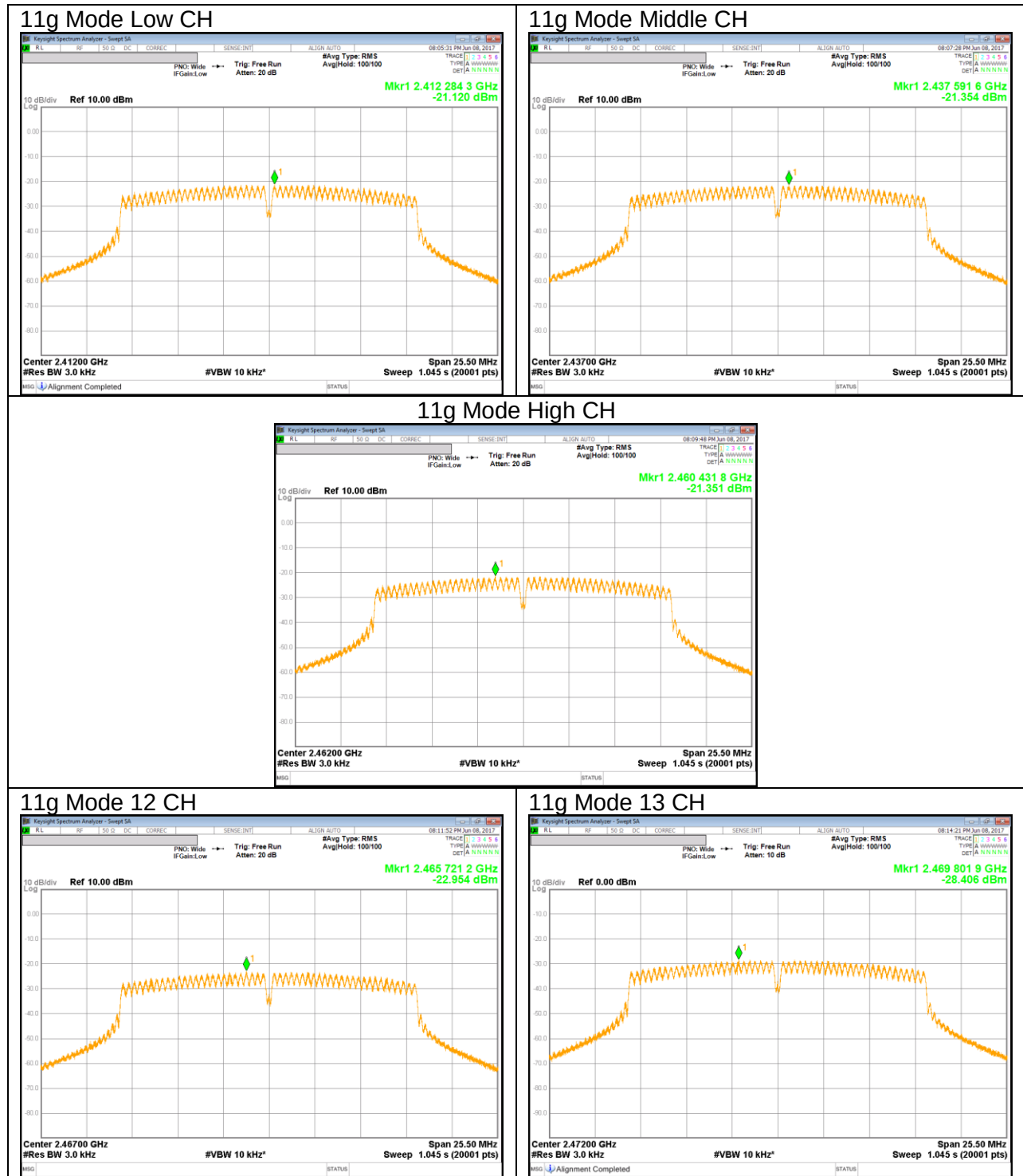
9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

PSD Results

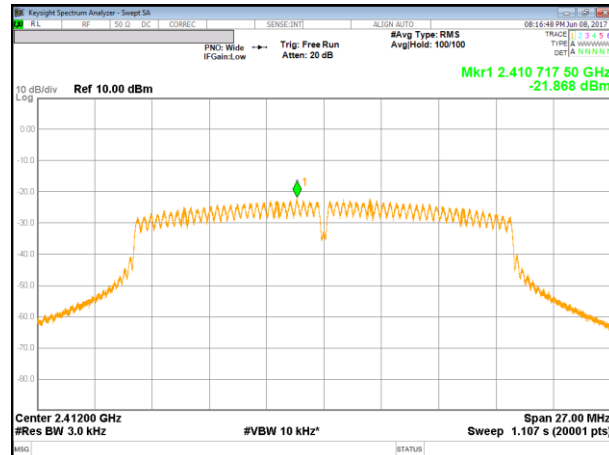
Channel	Frequency [MHz]	PSD Meas [dBm]	Duty Factor [dB]	Final PSD [dBm]	Limit [dBm]	Margin [dB]
Low	2412	-21.868	0.32	-21.548	8.00	-29.868
Mid	2437	-22.078	0.32	-21.758	8.00	-30.078
High	2462	-22.402	0.32	-22.082	8.00	-30.402
12	2467	-23.684	0.32	-23.364	8.00	-31.684
13	2472	-28.430	0.32	-28.110	8.00	-36.430

9.3.4. PSD PLOTS

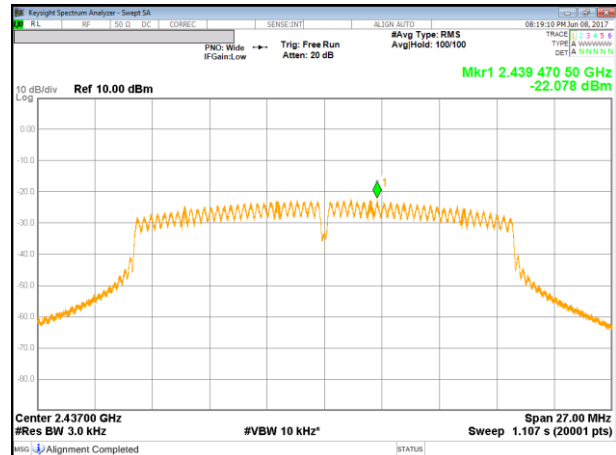




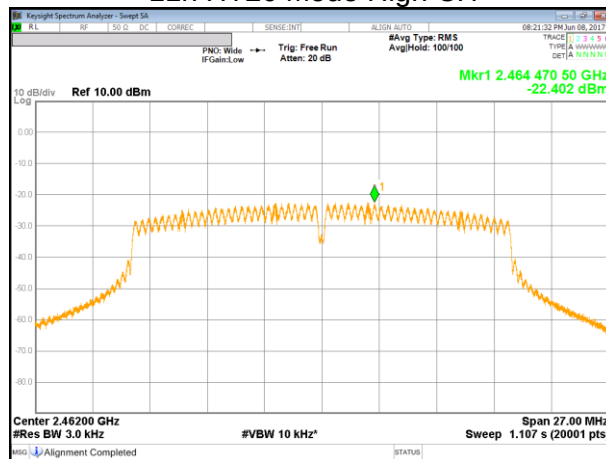
11n HT20 Mode Low CH



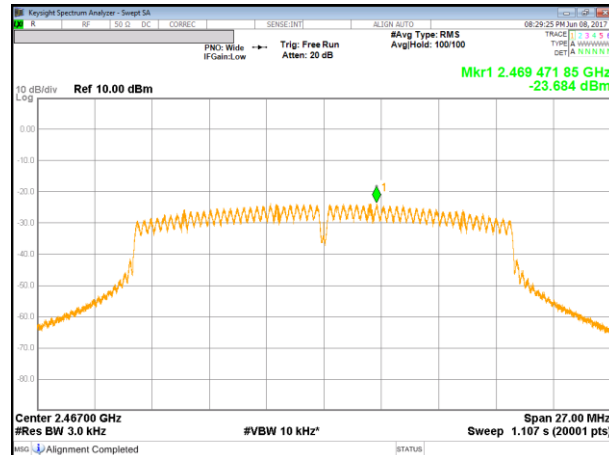
11n HT20 Mode Middle CH



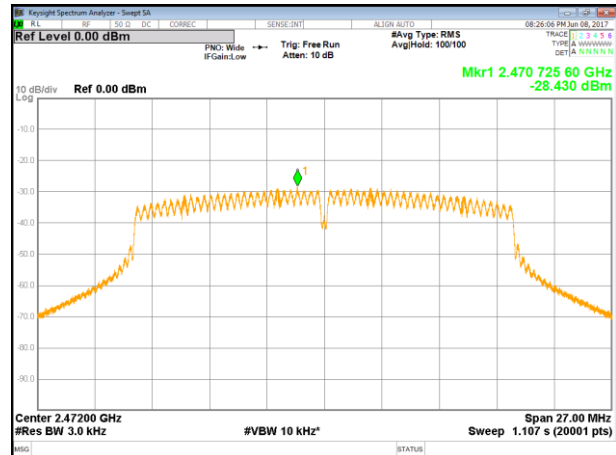
11n HT20 Mode High CH



11n Mode 12 CH



11n Mode 13 CH



9.4. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)
IC RSS-247 §5.5

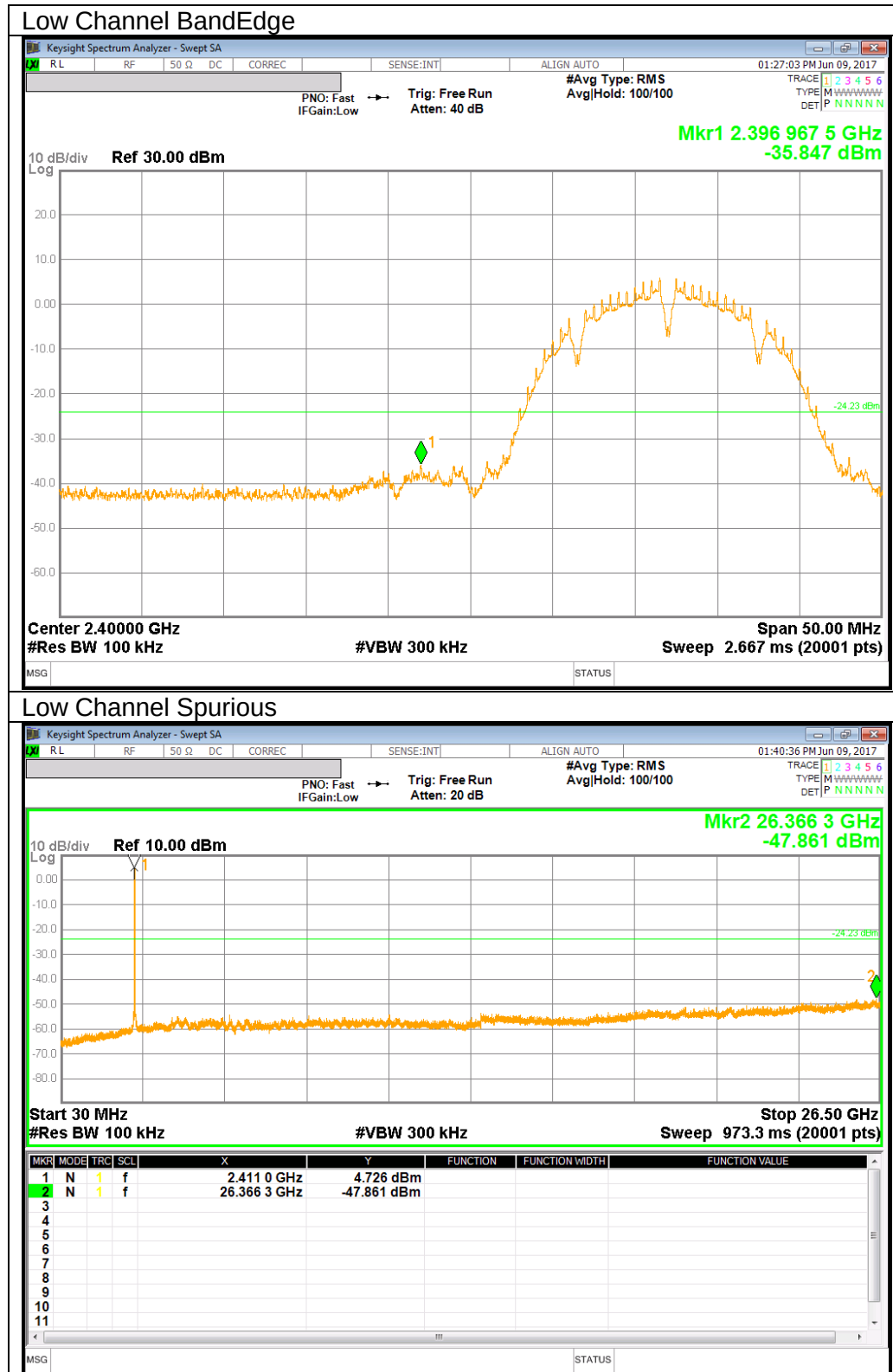
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

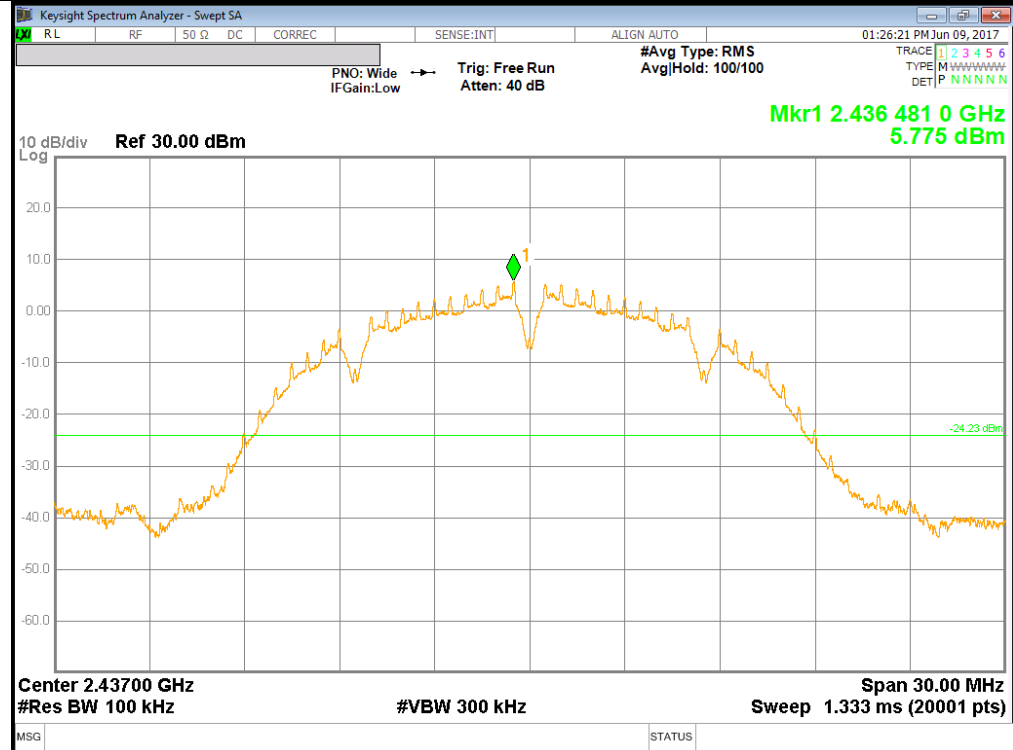
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

RESULTS

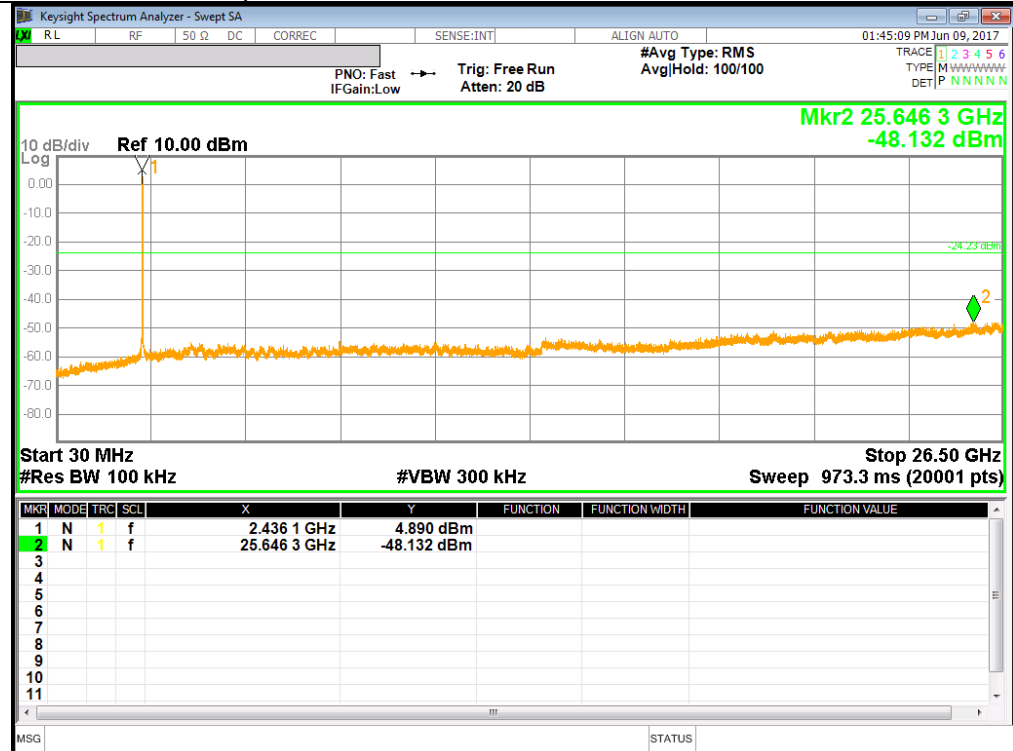
9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

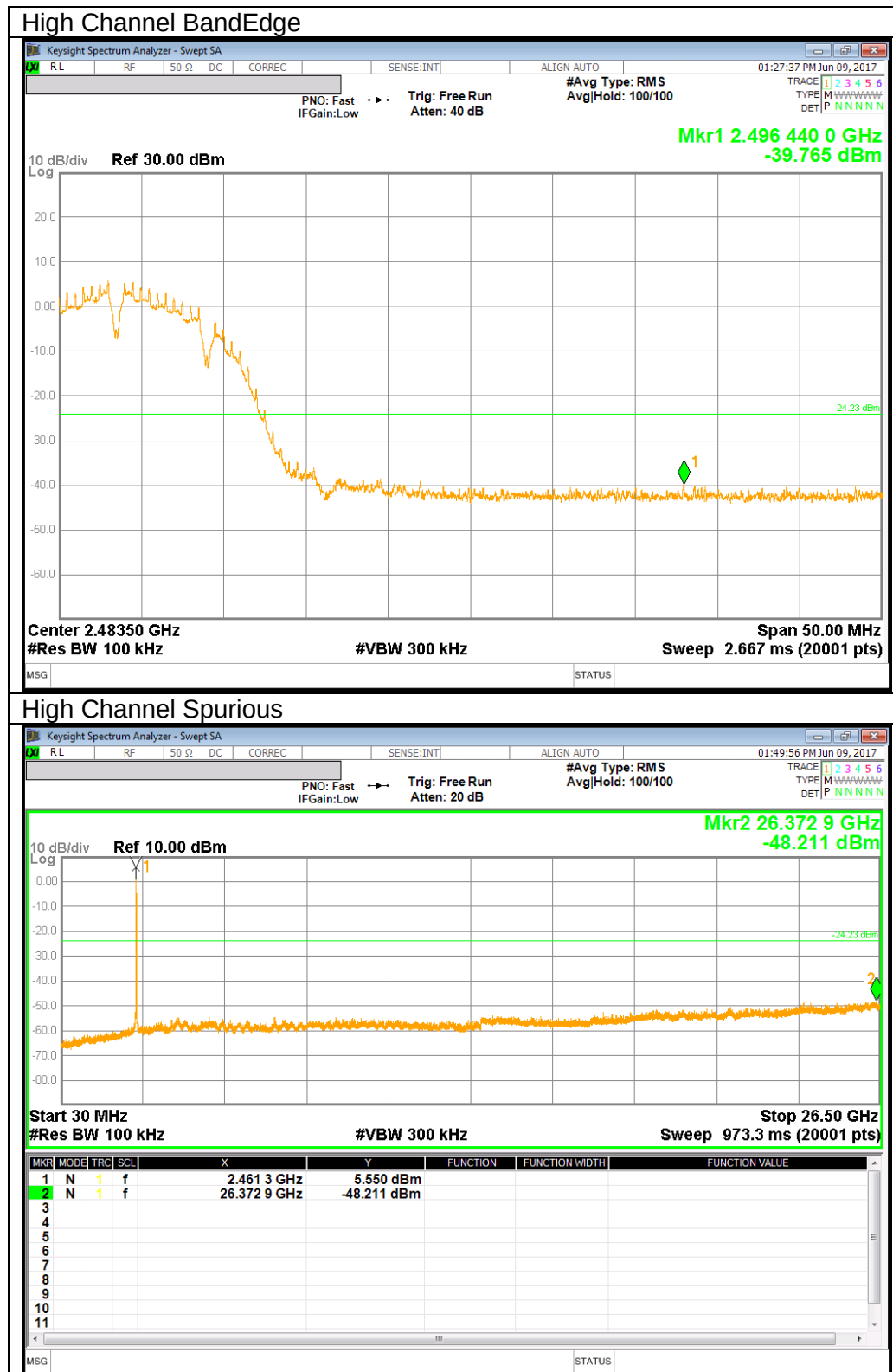


Middle Channel BandEdge

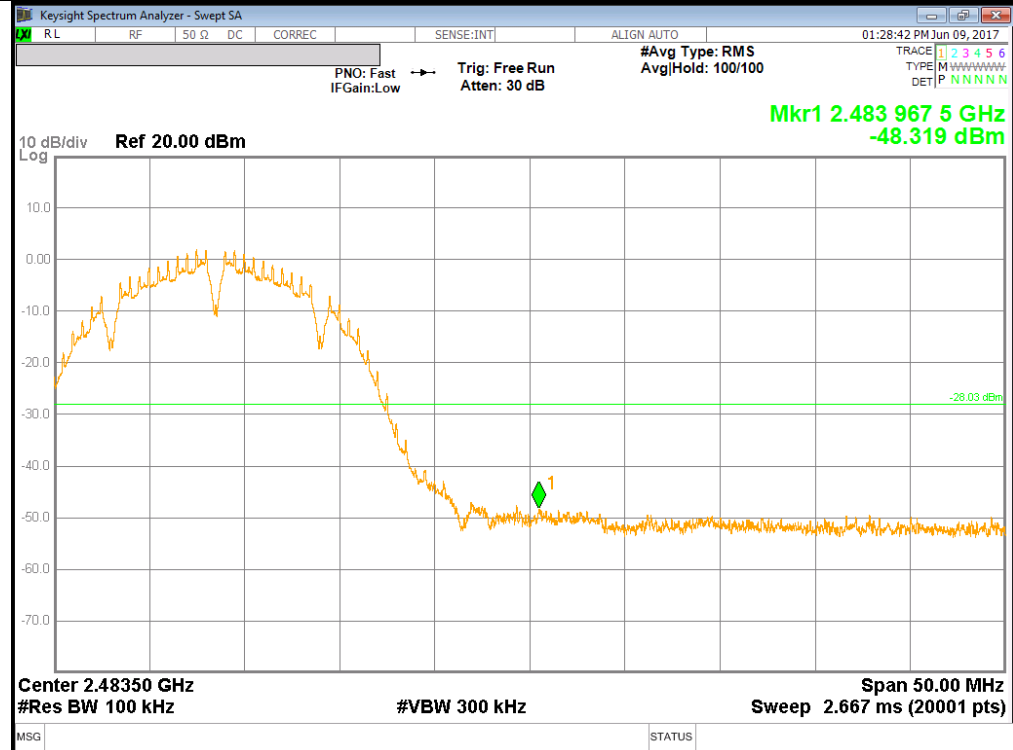


Middle Channel Spurious

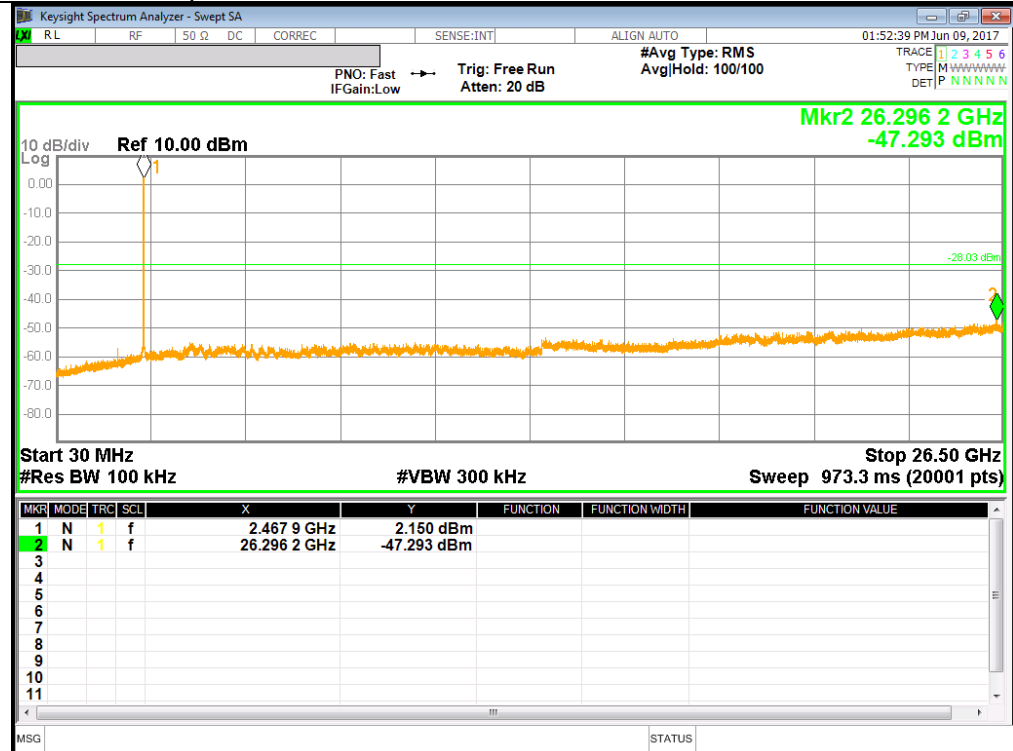




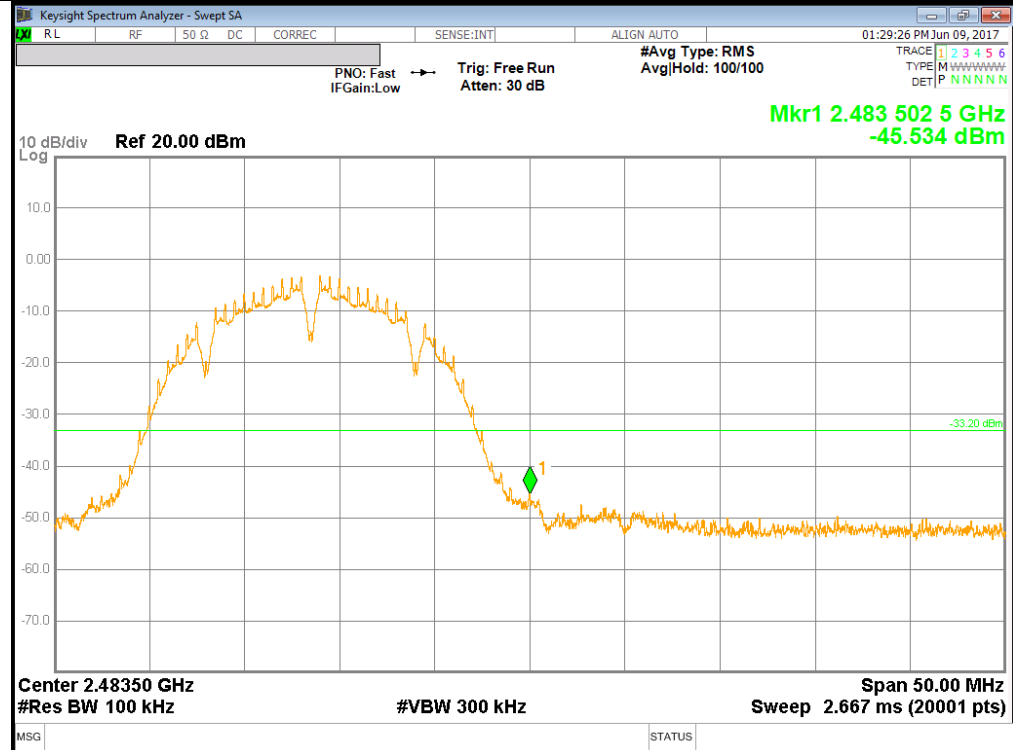
12 Channel BandEdge



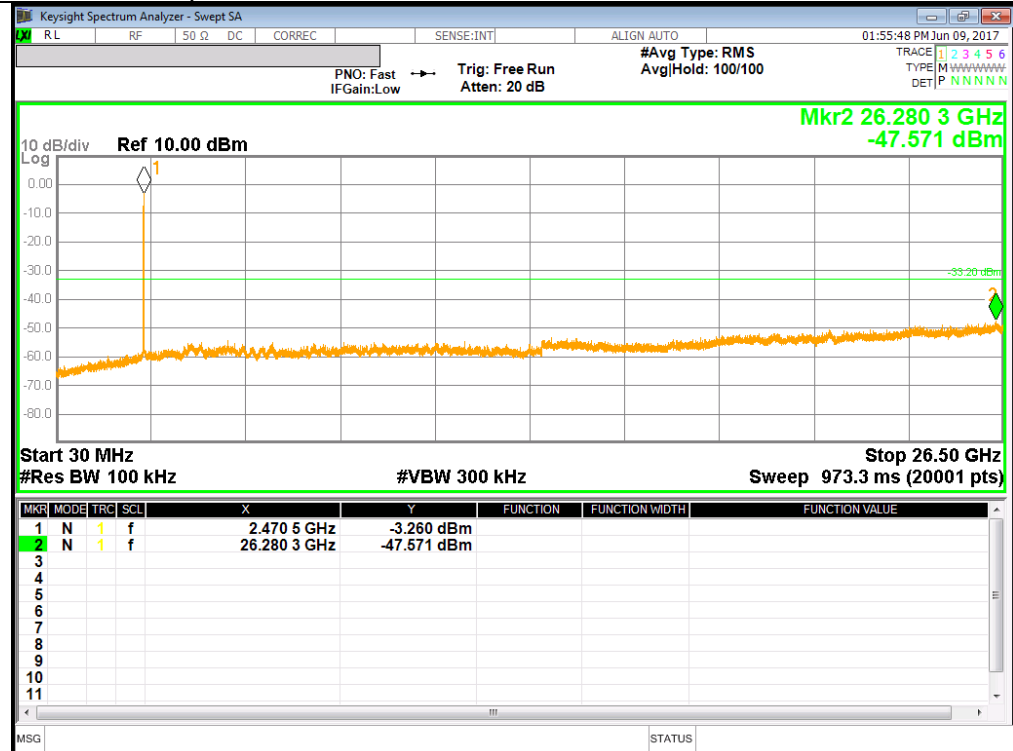
12 Channel Spurious



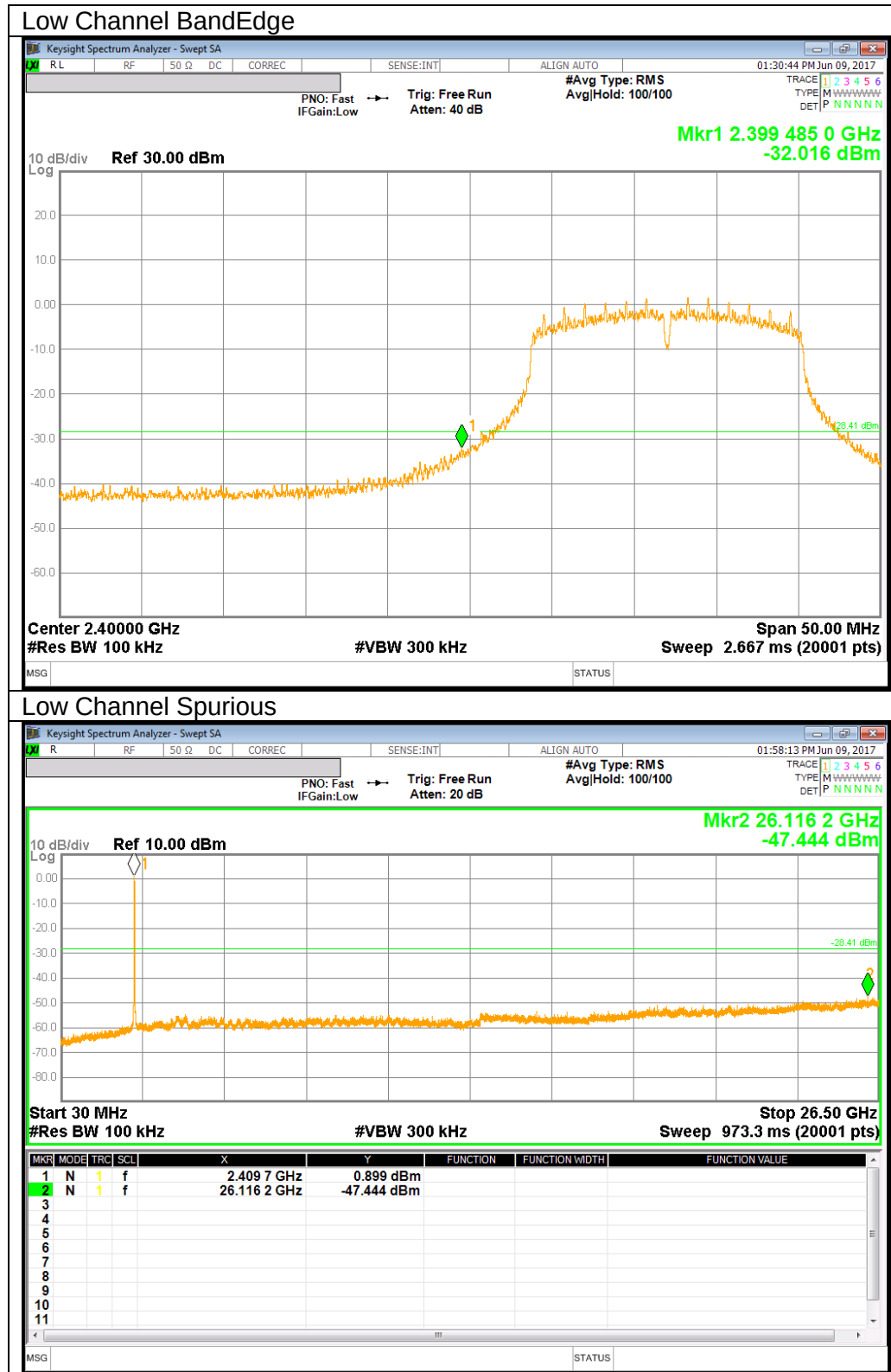
13 Channel BandEdge



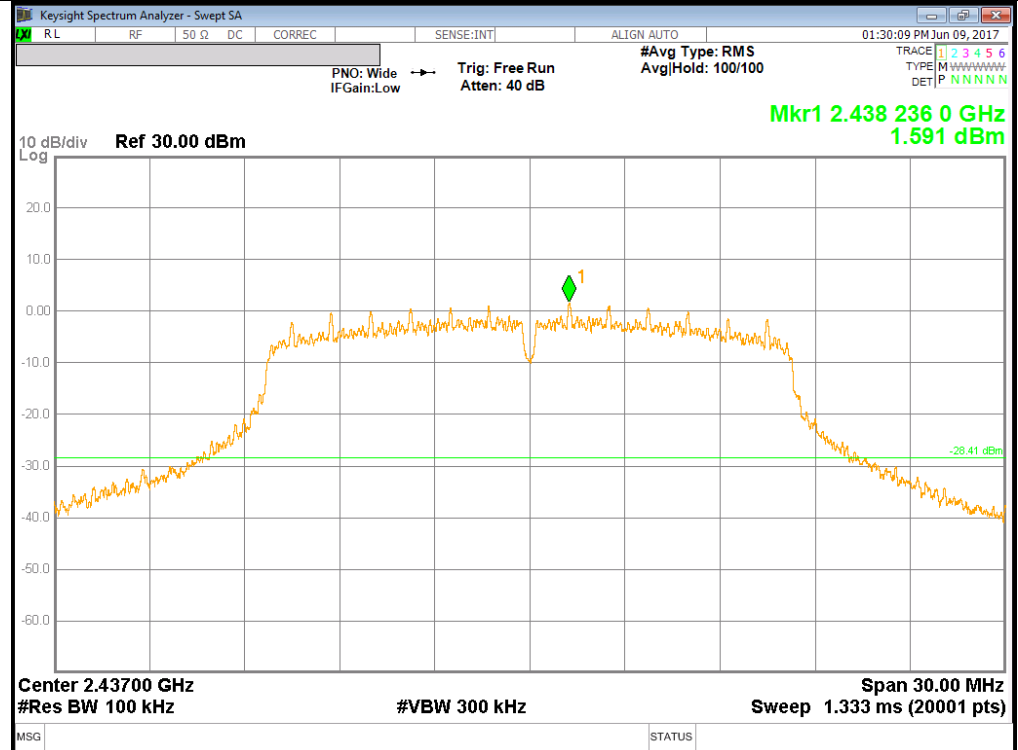
13 Channel Spurious



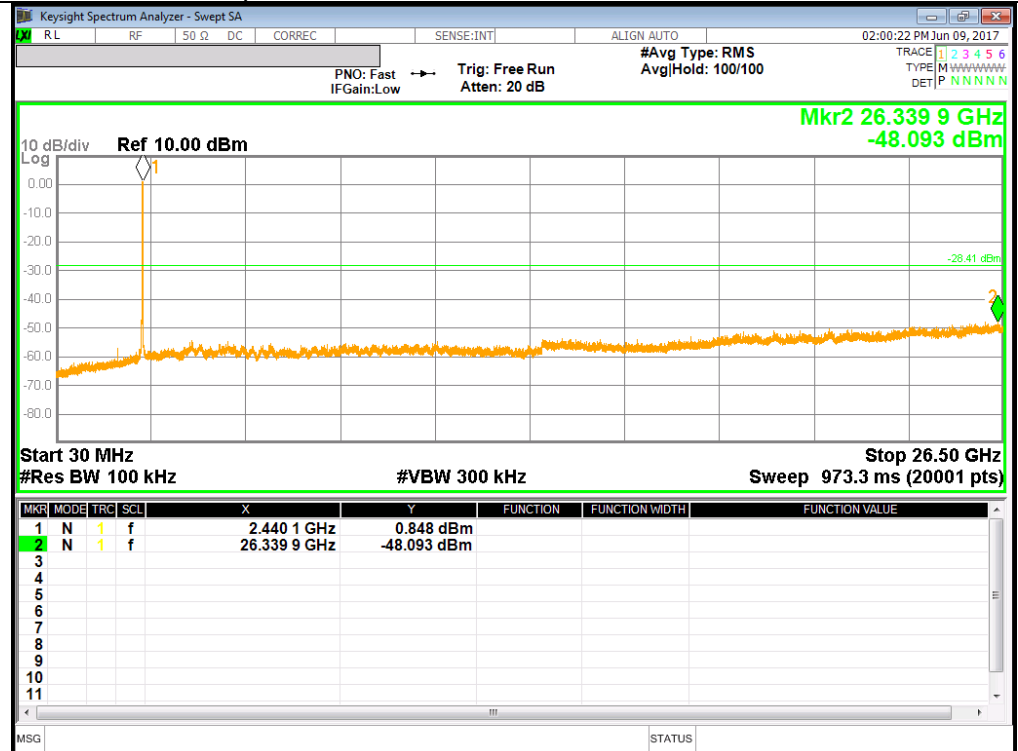
9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

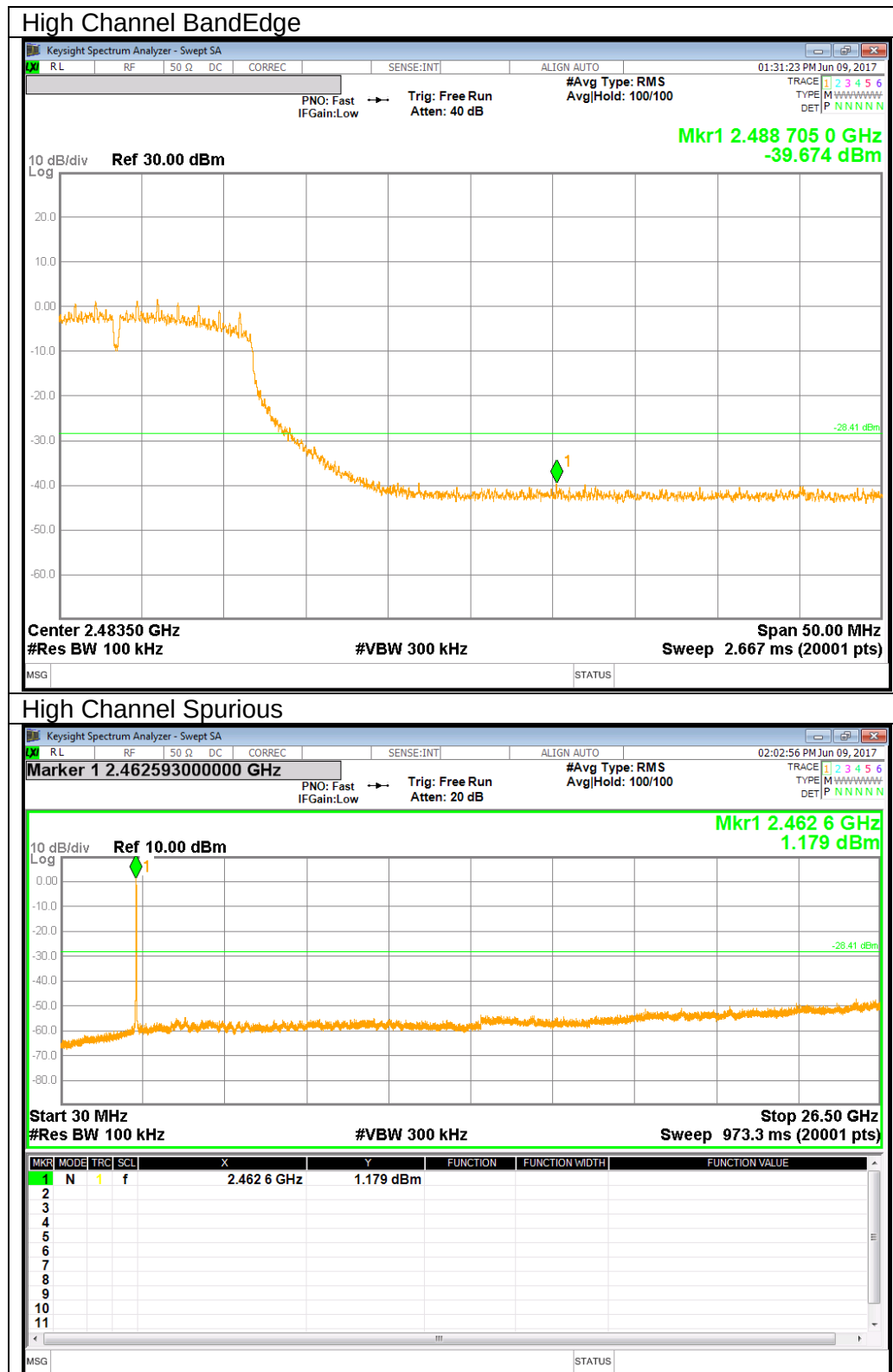


Middle Channel BandEdge

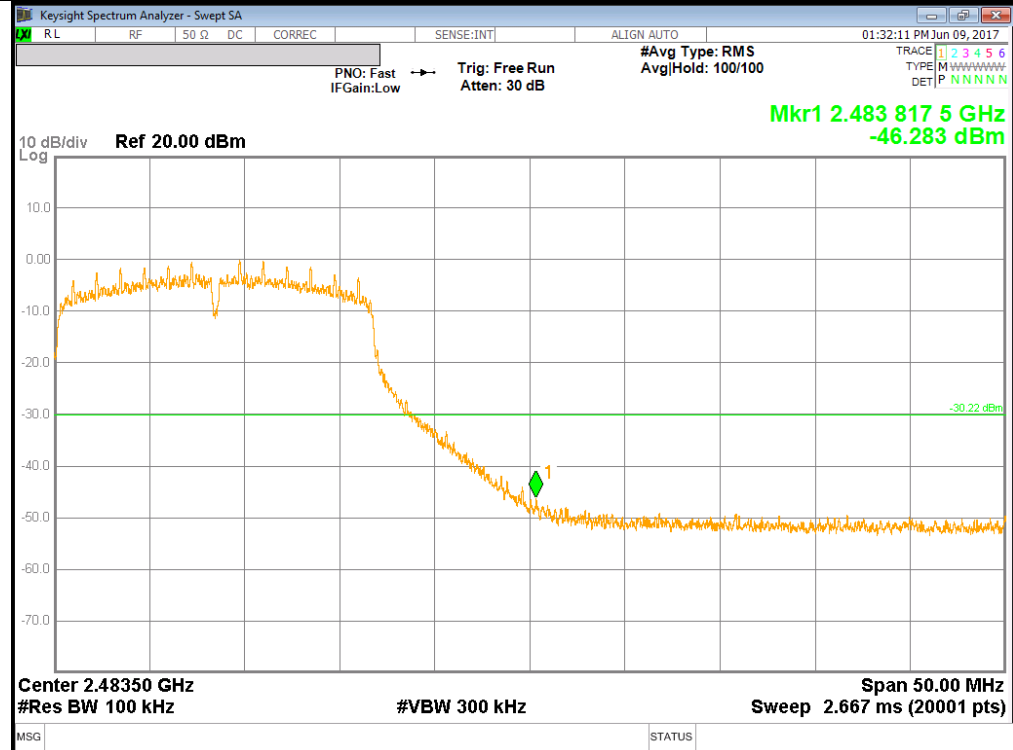


Middle Channel Spurious

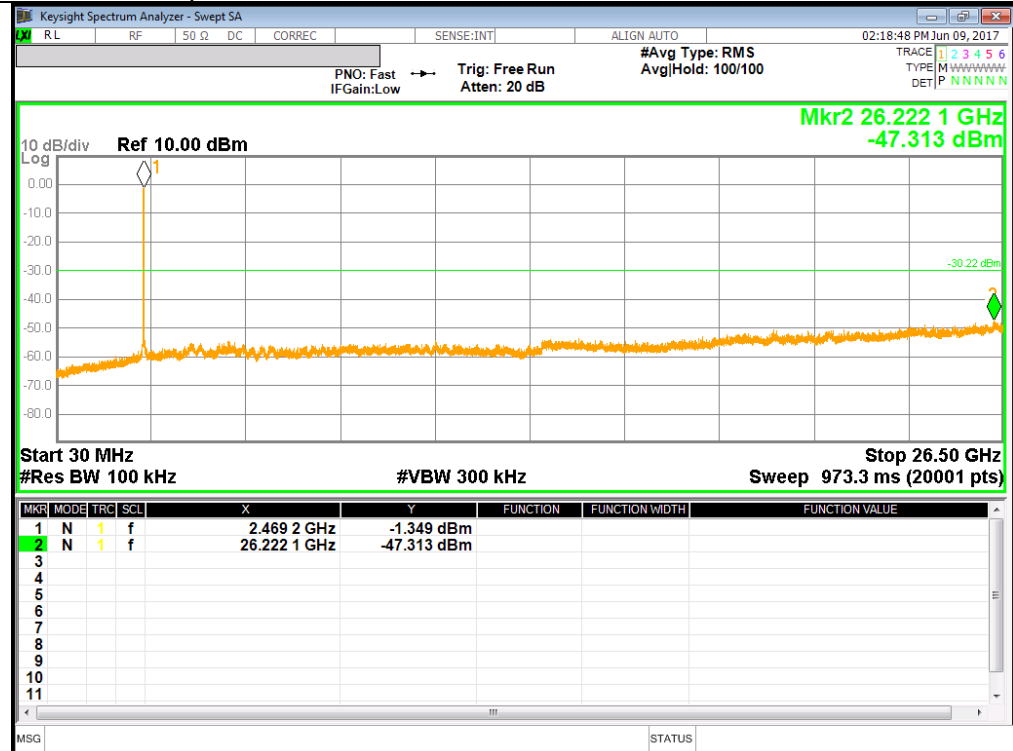




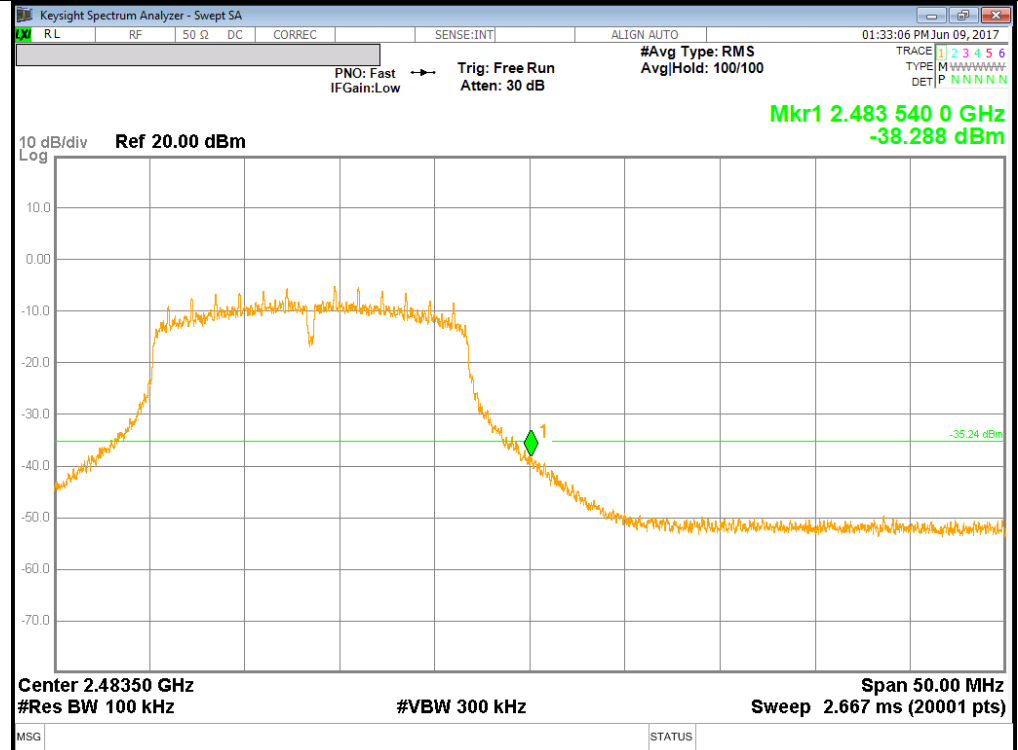
12 Channel BandEdge



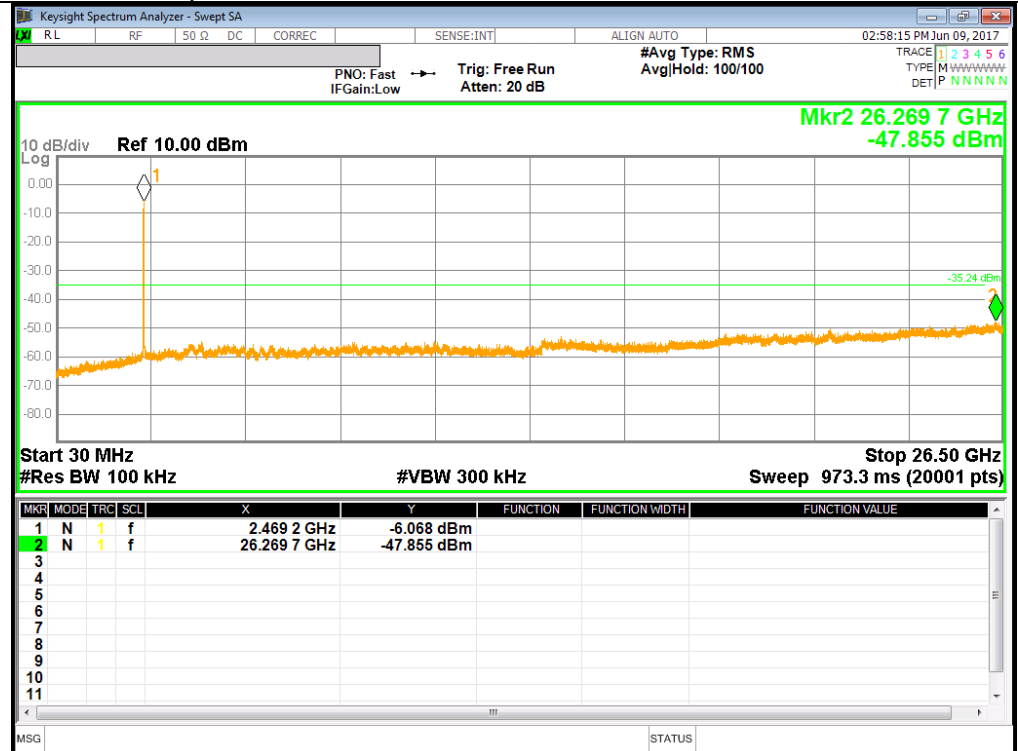
12 Channel Spurious



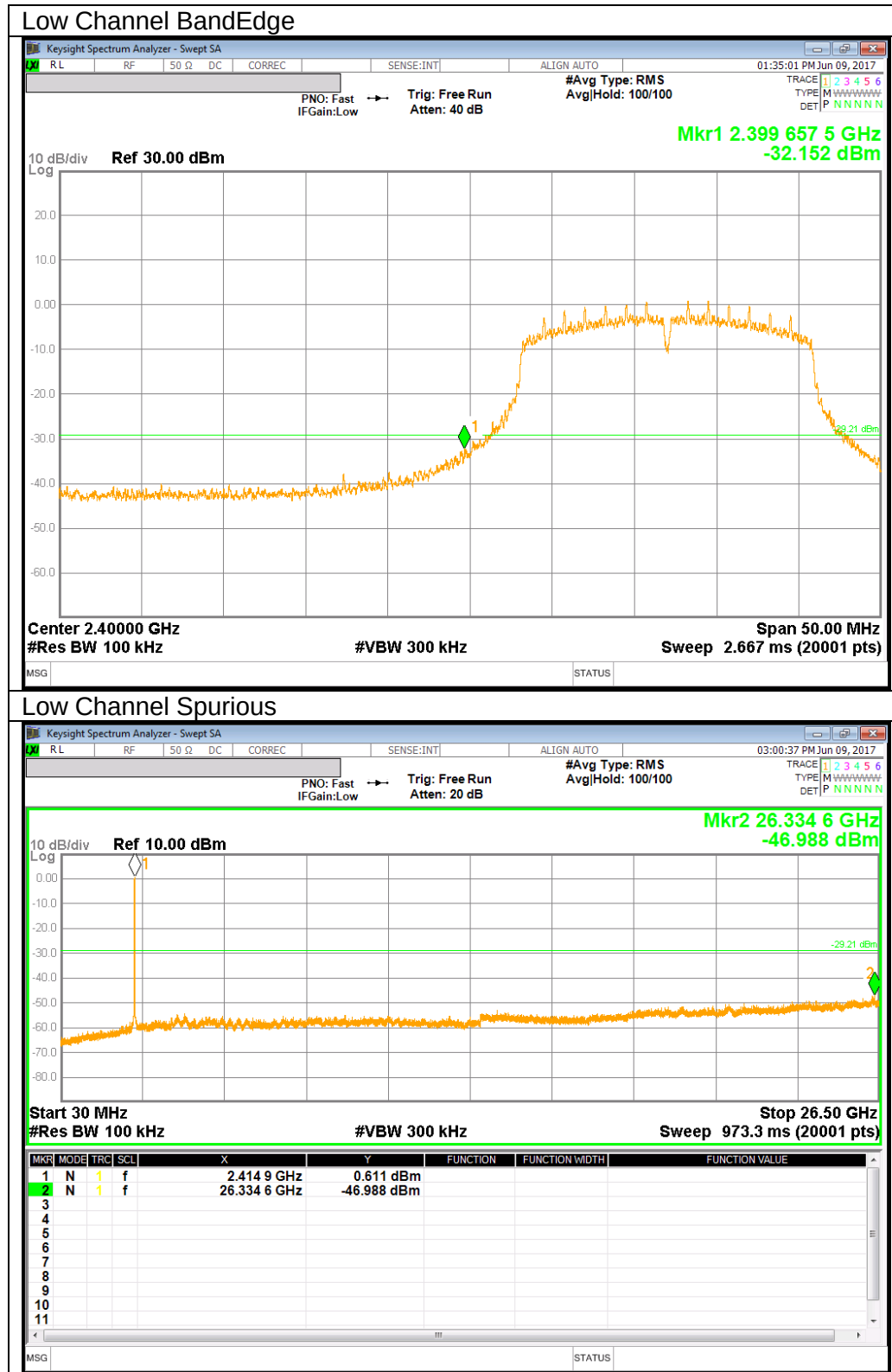
13 Channel BandEdge



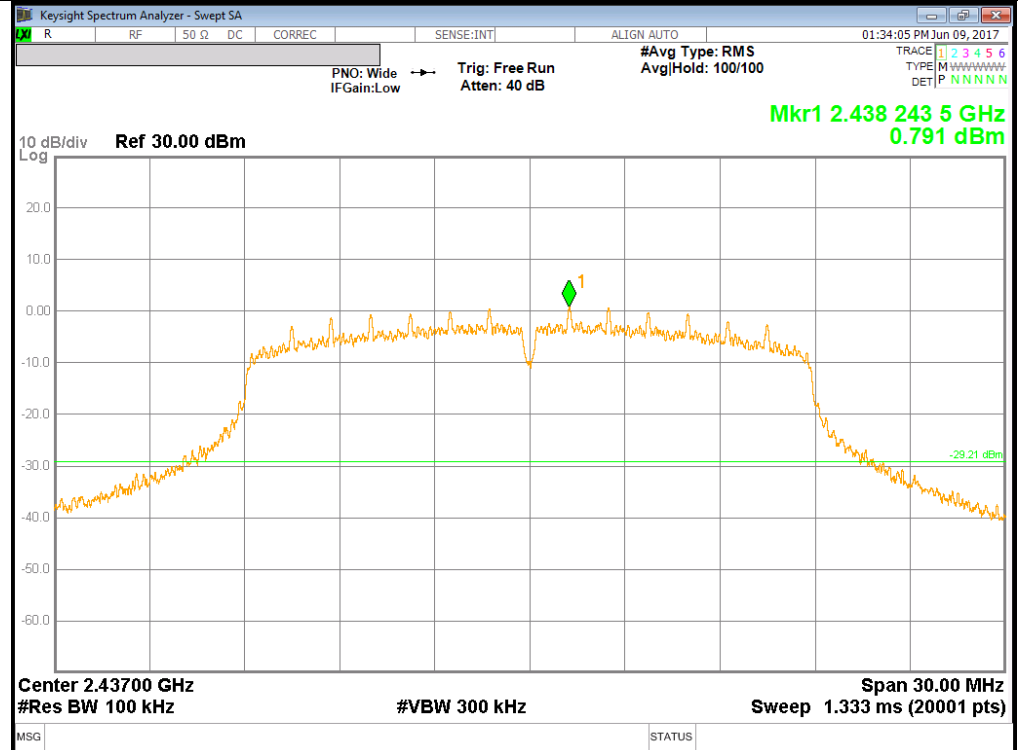
13 Channel Spurious



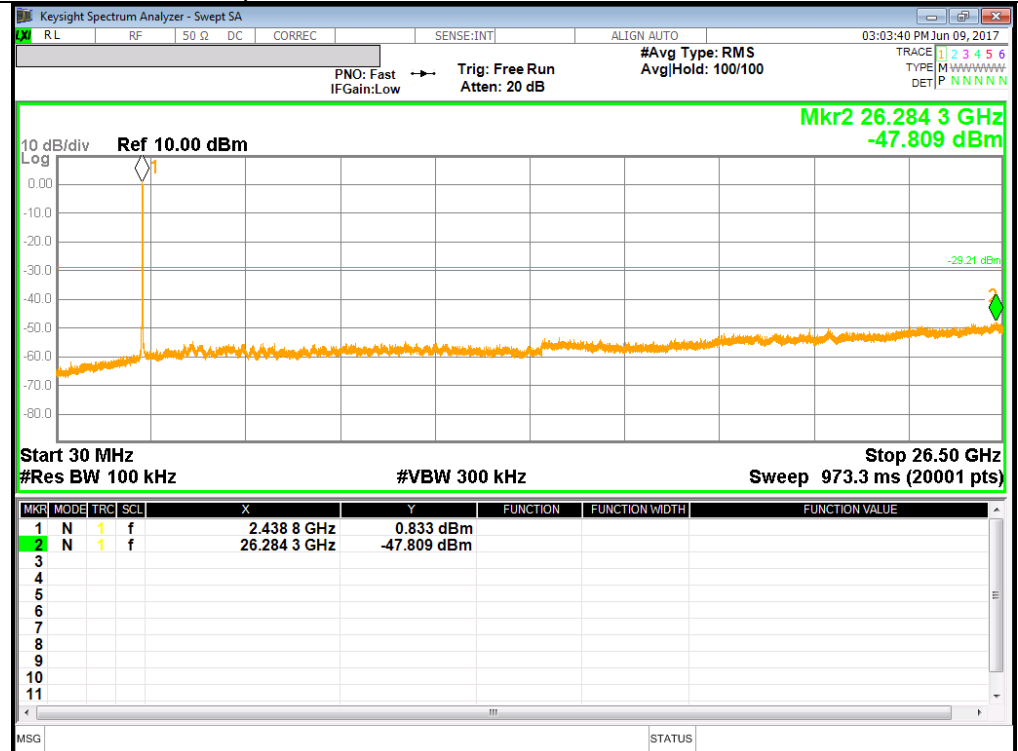
9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

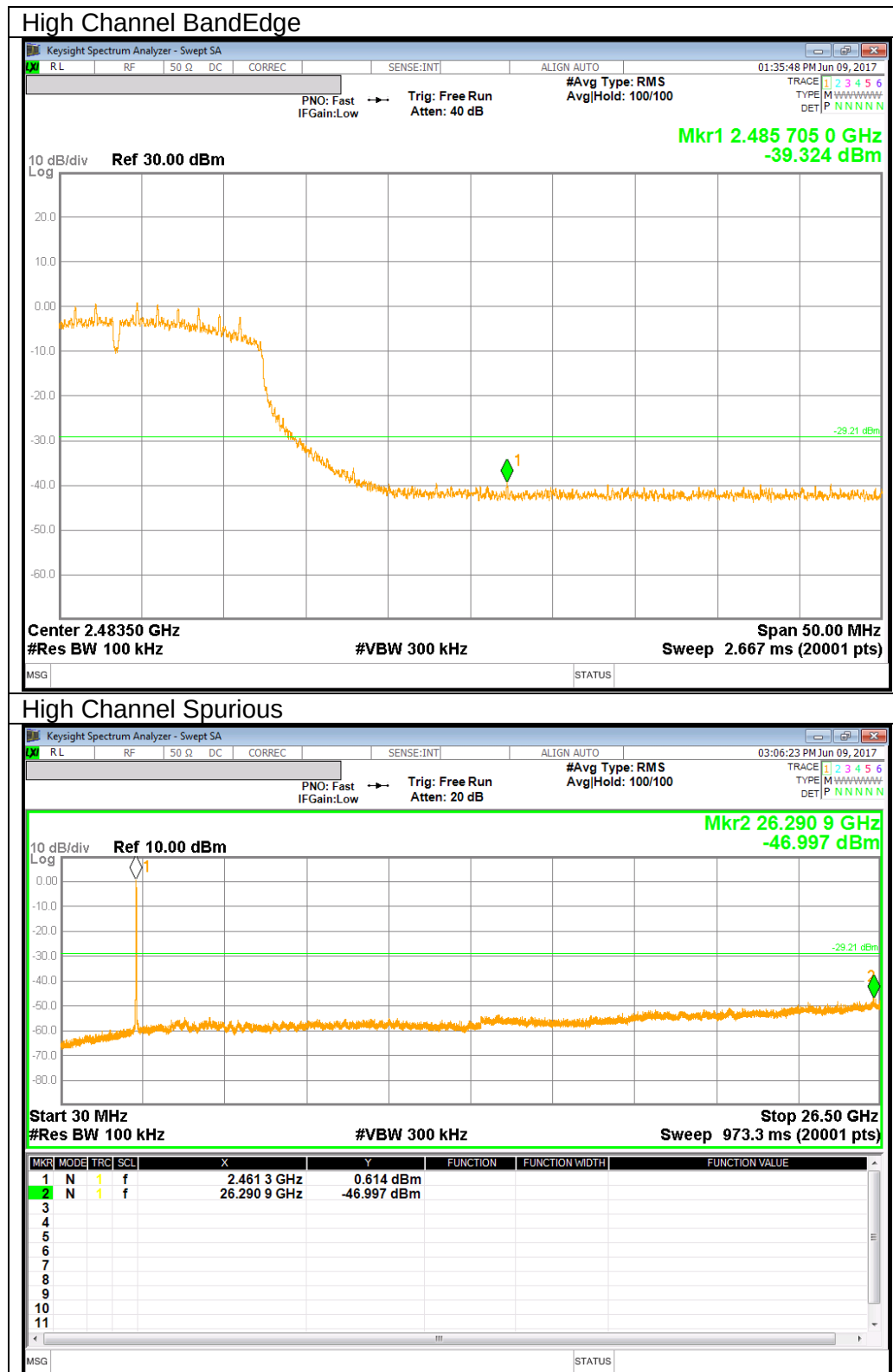


Middle Channel BandEdge

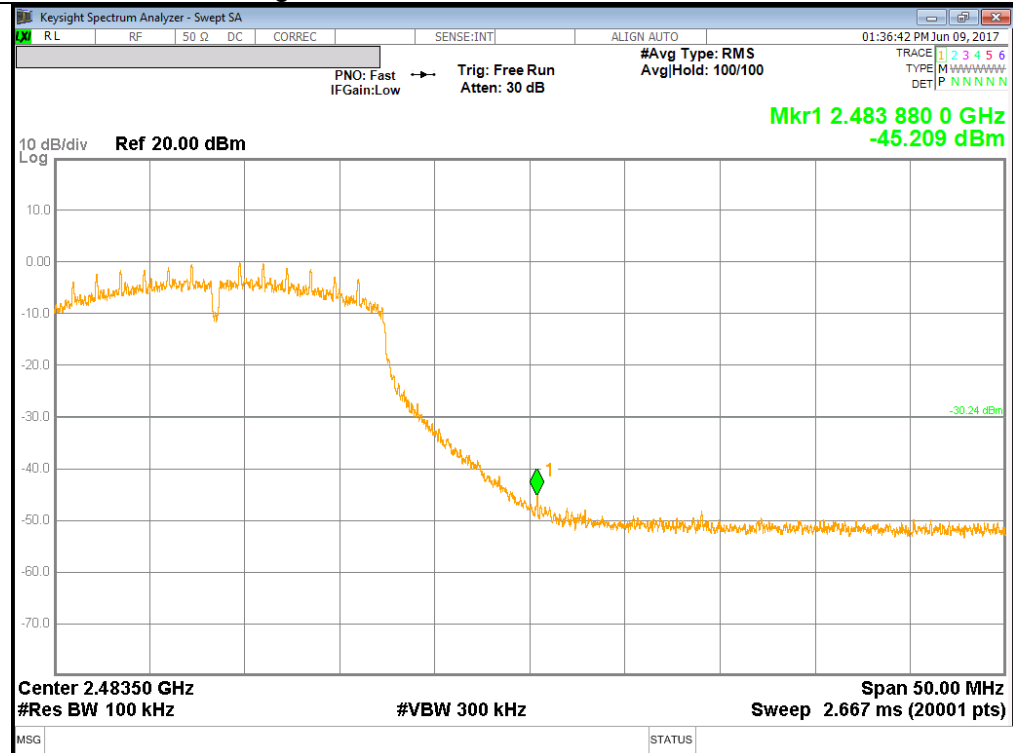


Middle Channel Spurious

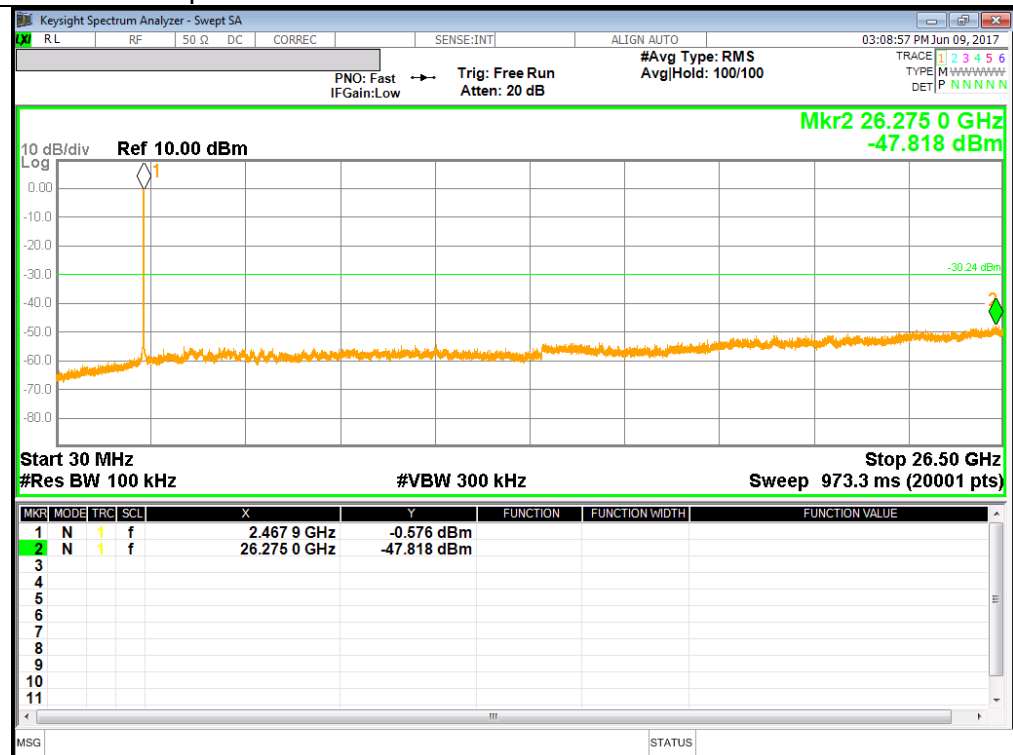




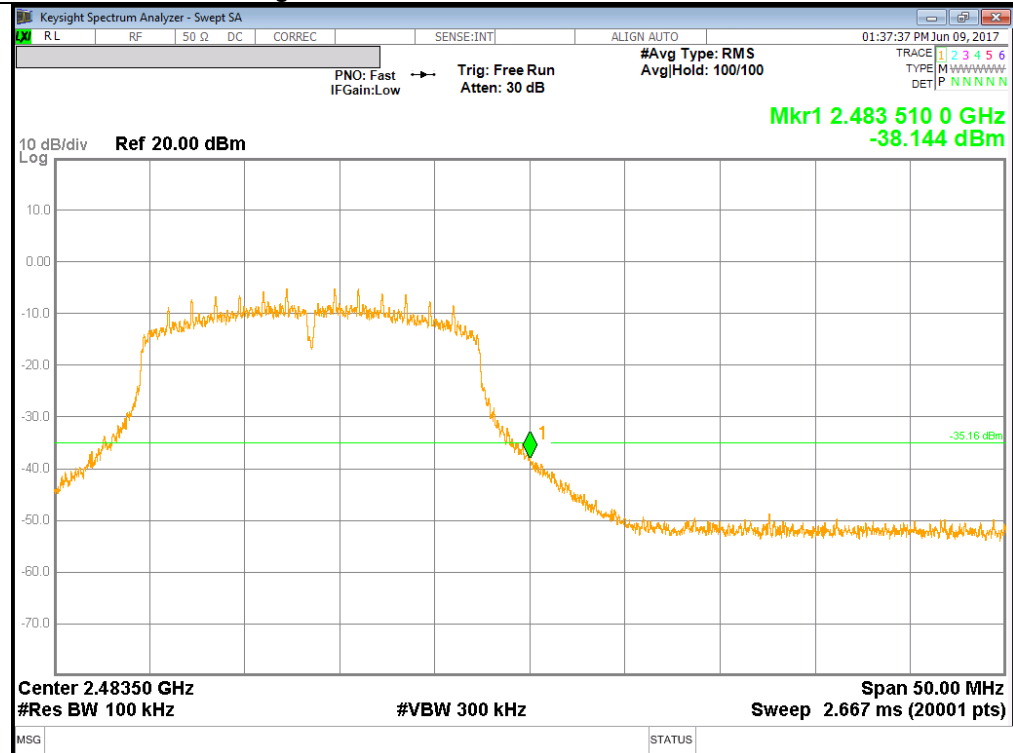
12 Channel BandEdge



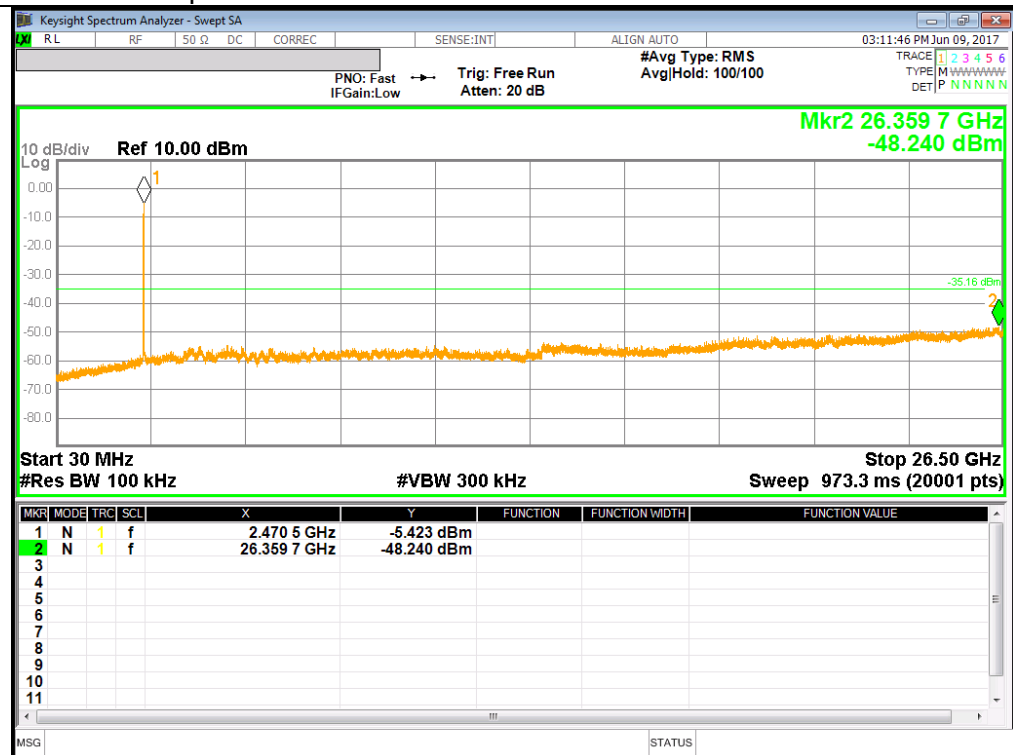
12 Channel Spurious



13 Channel BandEdge



13 Channel Spurious



10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 (Transmitter)

IC RSS-GEN Clause 7 (Receiver)

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (μV/m)	Measurement Distance (m)
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

** 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. §§ 15.231 and 15.241.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted bandedge, Final detection of spurious harmonic emissions)
Duty cycle factor= $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0.30dB; N mode = 0.32dB.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

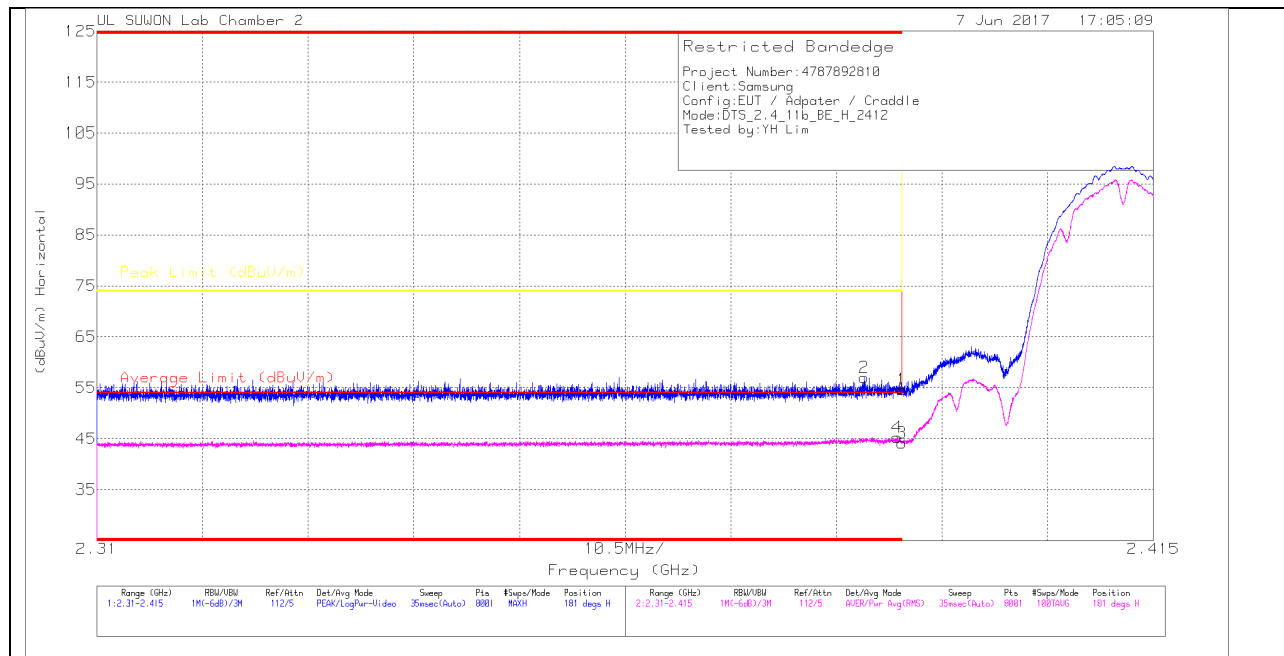
Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

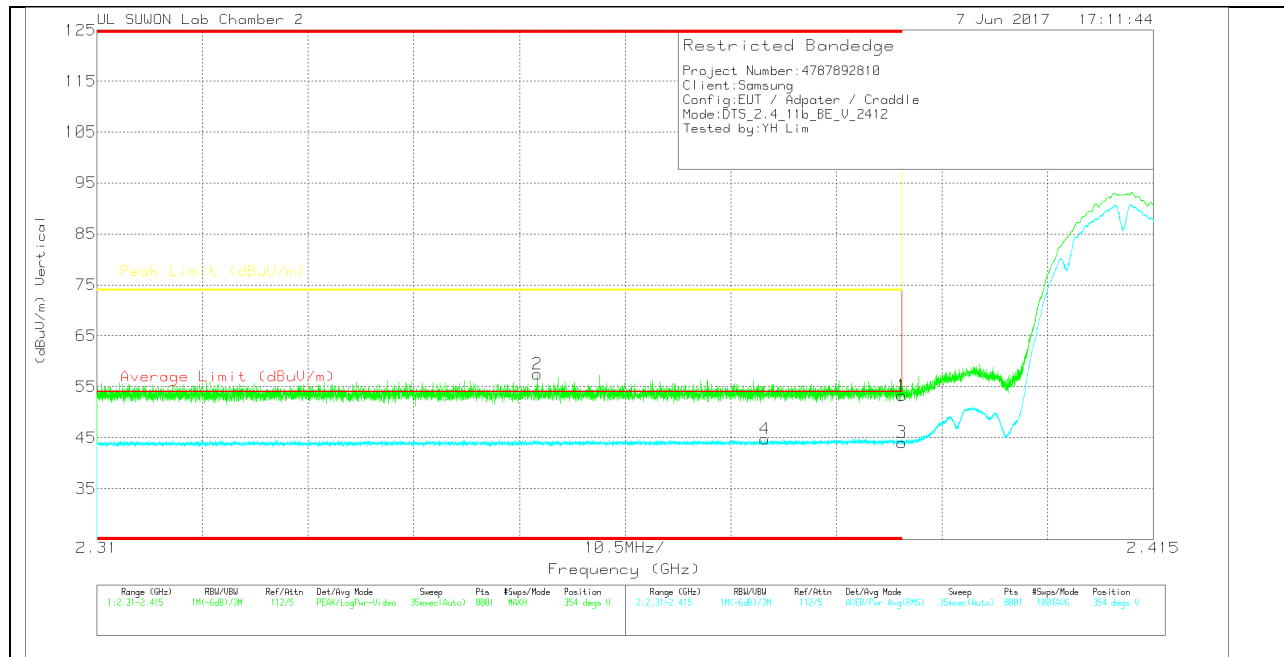
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	41.19	Pk	31.7	-18.2	0	54.69	-	-	74	-19.31	181	119	H
2	* 2.386	43.54	Pk	31.7	-18.2	0	57.04	-	-	74	-16.96	181	119	H
3	* 2.39	30.6	RMS	31.7	-18.2	0	44.1	54	-9.9	-	-	181	119	H
4	* 2.39	31.74	RMS	31.7	-18.2	0	45.24	54	-8.76	-	-	181	119	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.79	Pk	31.7	-18.2	0	53.29	-	-	74	-20.71	354	185	V
2	* 2.354	44.21	Pk	31.6	-18.3	0	57.51	-	-	74	-16.49	354	185	V
3	* 2.39	30.58	RMS	31.7	-18.2	0	44.08	54	-9.92	-	-	354	185	V
4	* 2.376	31.4	RMS	31.7	-18.3	0	44.8	54	-9.2	-	-	354	185	V

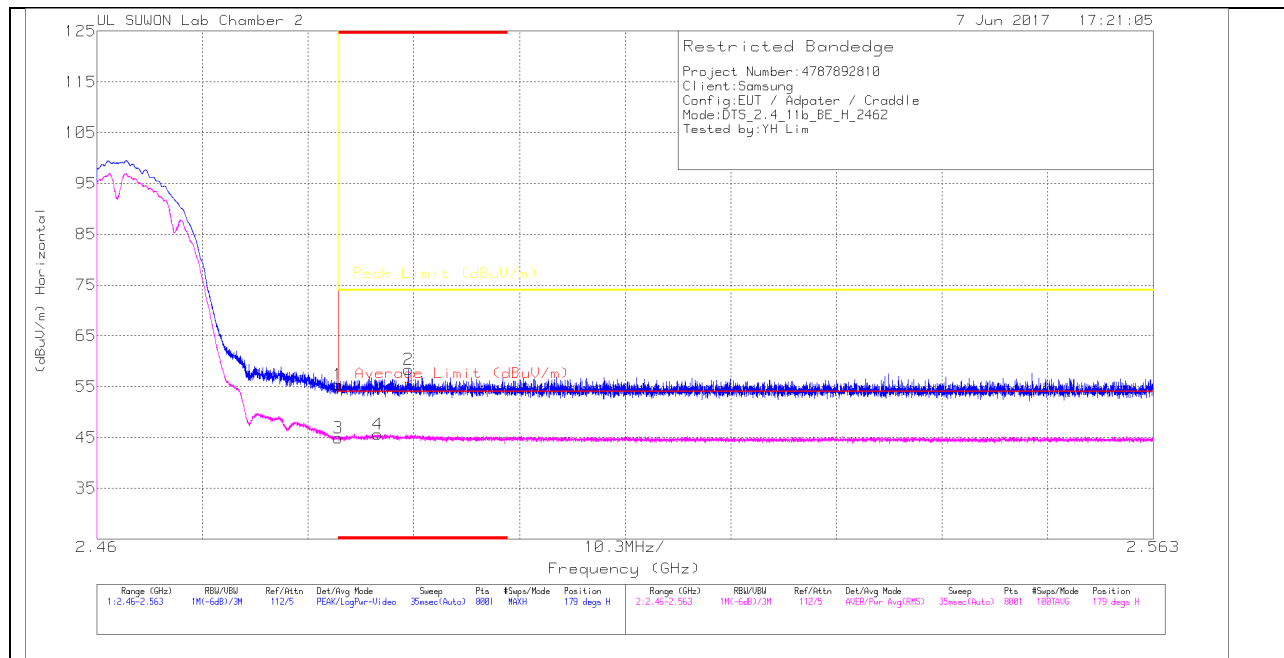
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

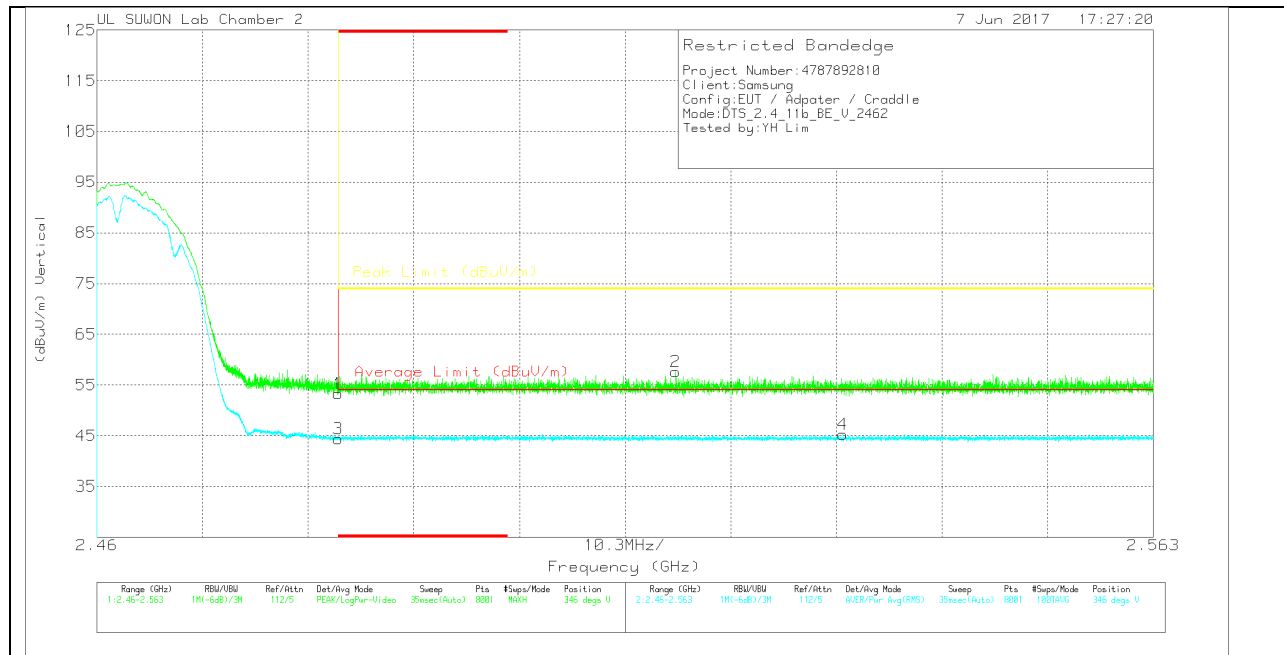
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.58	Pk	31.8	-18	0	55.38	-	-	74	-18.62	179	112	H
2	* 2.49	44.62	Pk	31.8	-18	0	58.42	-	-	74	-15.58	179	112	H
3	* 2.484	31.05	RMS	31.8	-18	0	44.85	54	-9.15	-	-	179	112	H
4	* 2.487	31.88	RMS	31.8	-18	0	45.68	54	-8.32	-	-	179	112	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.47	Pk	31.8	-18	0	53.27	-	-	74	-20.73	346	387	V
2	2.516	43.75	Pk	31.9	-18	0	57.65	-	-	74	-16.35	346	387	V
3	* 2.484	30.55	RMS	31.8	-18	0	44.35	54	-9.65	-	-	346	387	V
4	2.533	31.38	RMS	31.9	-18	0	45.28	54	-8.72	-	-	346	387	V

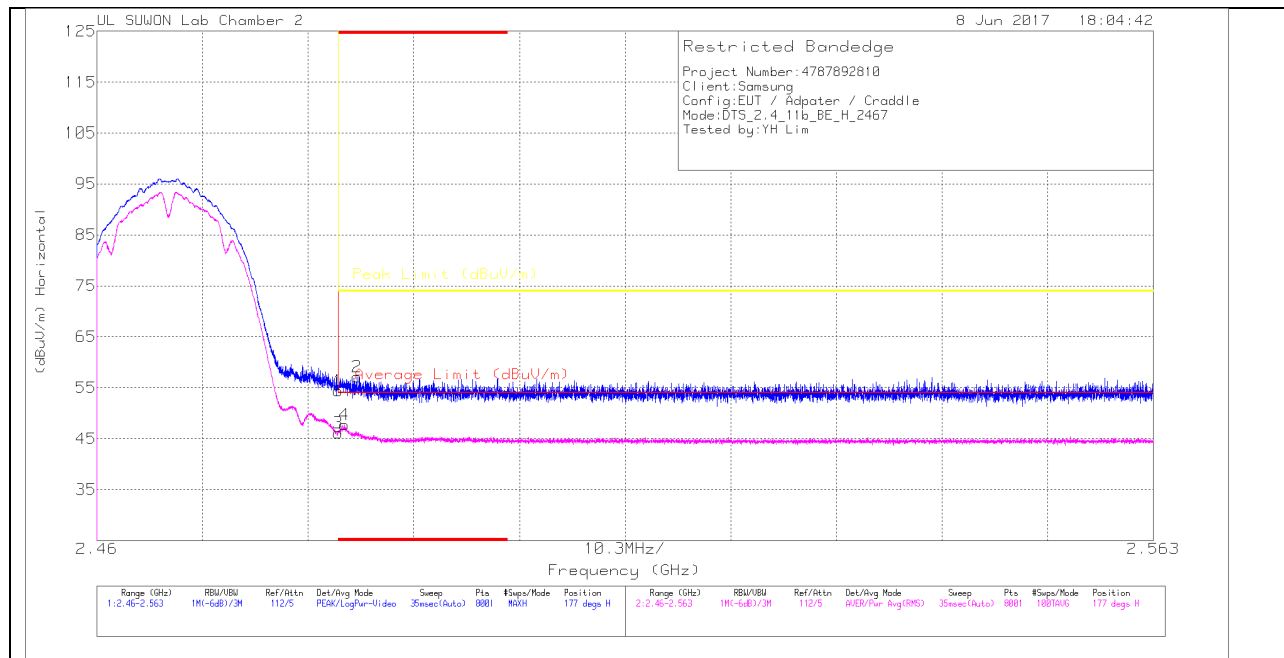
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

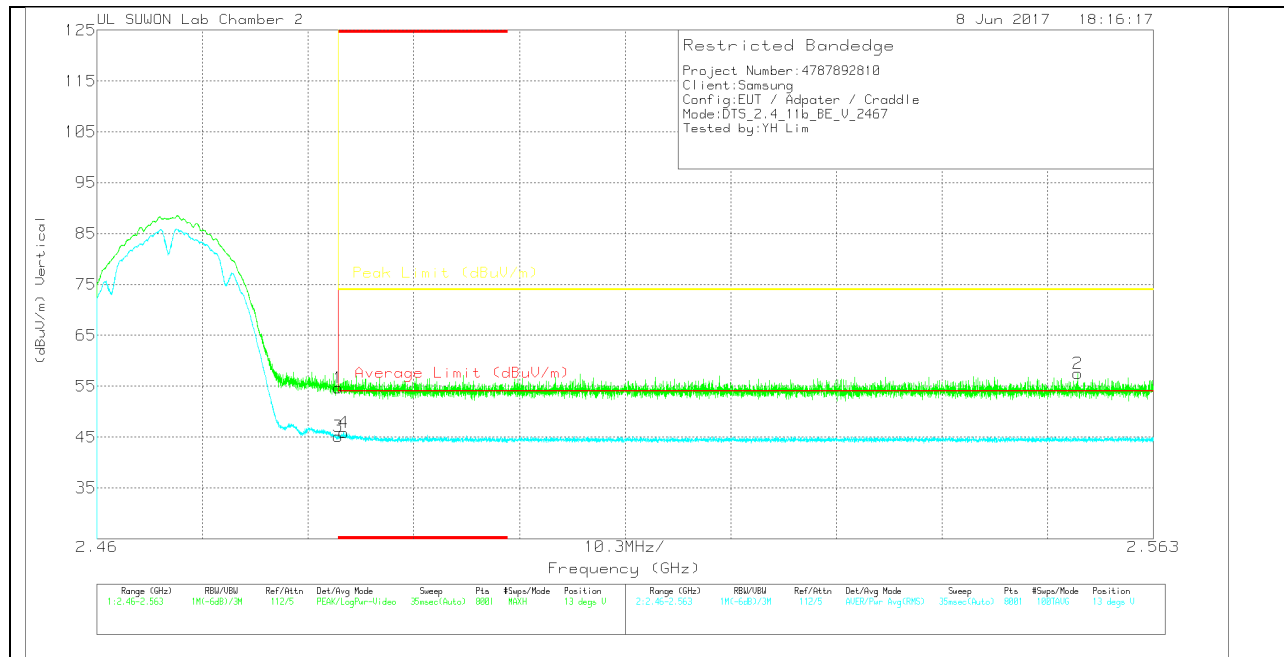
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.59	Pk	31.8	-18	0	54.39	-	-	74	-19.61	177	113	H
2	* 2.485	43.32	Pk	31.8	-18	0	57.12	-	-	74	-16.88	177	113	H
3	* 2.484	32.28	RMS	31.8	-18	0	46.08	54	-7.92	-	-	177	113	H
4	* 2.484	33.9	RMS	31.8	-18	0	47.7	54	-6.3	-	-	177	113	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.89	Pk	31.8	-18	0	54.69	-	-	74	-19.31	13	116	V
2	2.556	43.56	Pk	31.9	-18	0	57.46	-	-	74	-16.54	13	116	V
3	* 2.484	31.36	RMS	31.8	-18	0	45.16	54	-8.84	-	-	13	116	V
4	* 2.484	32.03	RMS	31.8	-18	0	45.83	54	-8.17	-	-	13	116	V

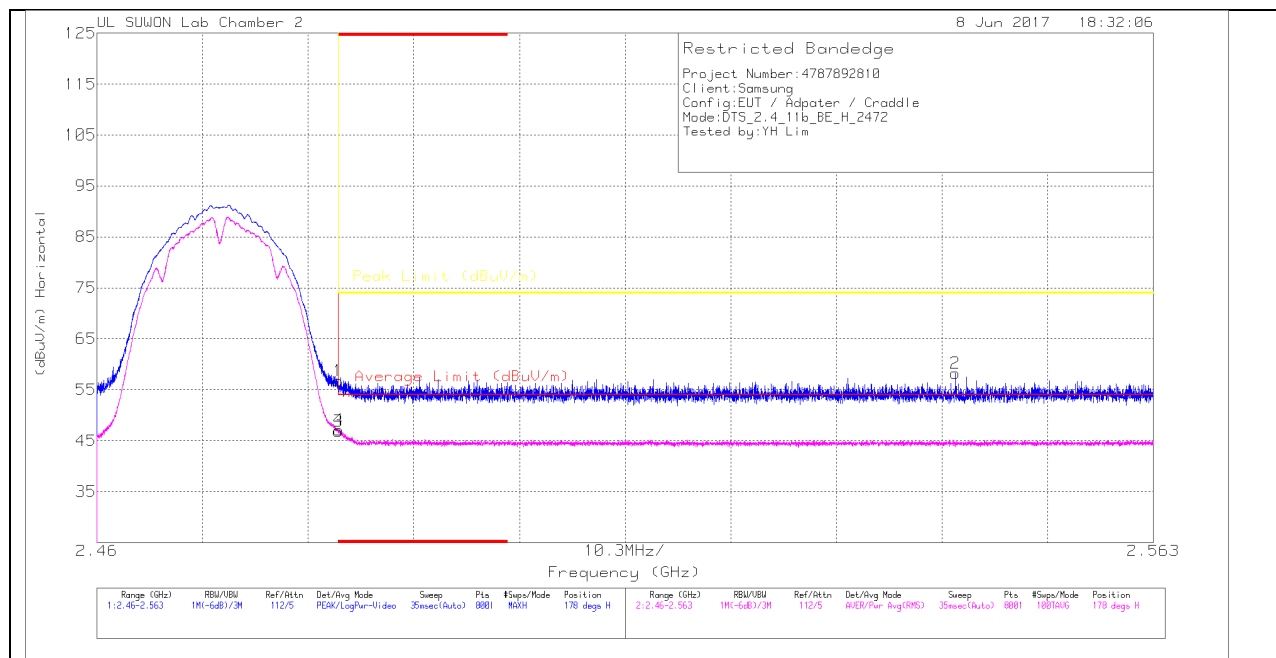
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

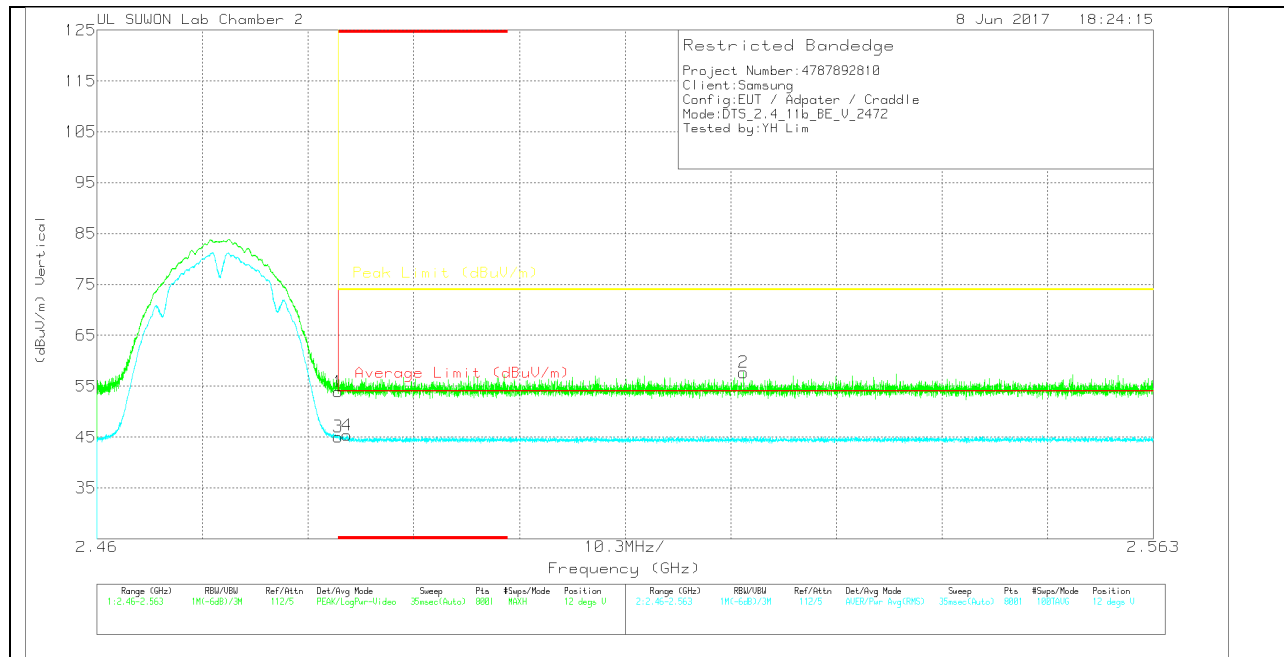
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.99	Pk	31.8	-18	0	56.79	-	-	74	-17.21	178	114	H
2	2.544	44.3	Pk	31.9	-18	0	58.2	-	-	74	-15.8	178	114	H
3	* 2.484	33.03	RMS	31.8	-18	0	46.83	54	-7.17	-	-	178	114	H
4	* 2.484	33.29	RMS	31.8	-18	0	47.09	54	-6.91	-	-	178	114	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.06	Pk	31.8	-18	0	53.86	-	-	74	-20.14	12	111	V
2	2.523	43.79	Pk	31.9	-18	0	57.69	-	-	74	-16.31	12	111	V
3	* 2.484	31.27	RMS	31.8	-18	0	45.07	54	-8.93	-	-	12	111	V
4	* 2.484	31.55	RMS	31.8	-18	0	45.35	54	-8.65	-	-	12	111	V

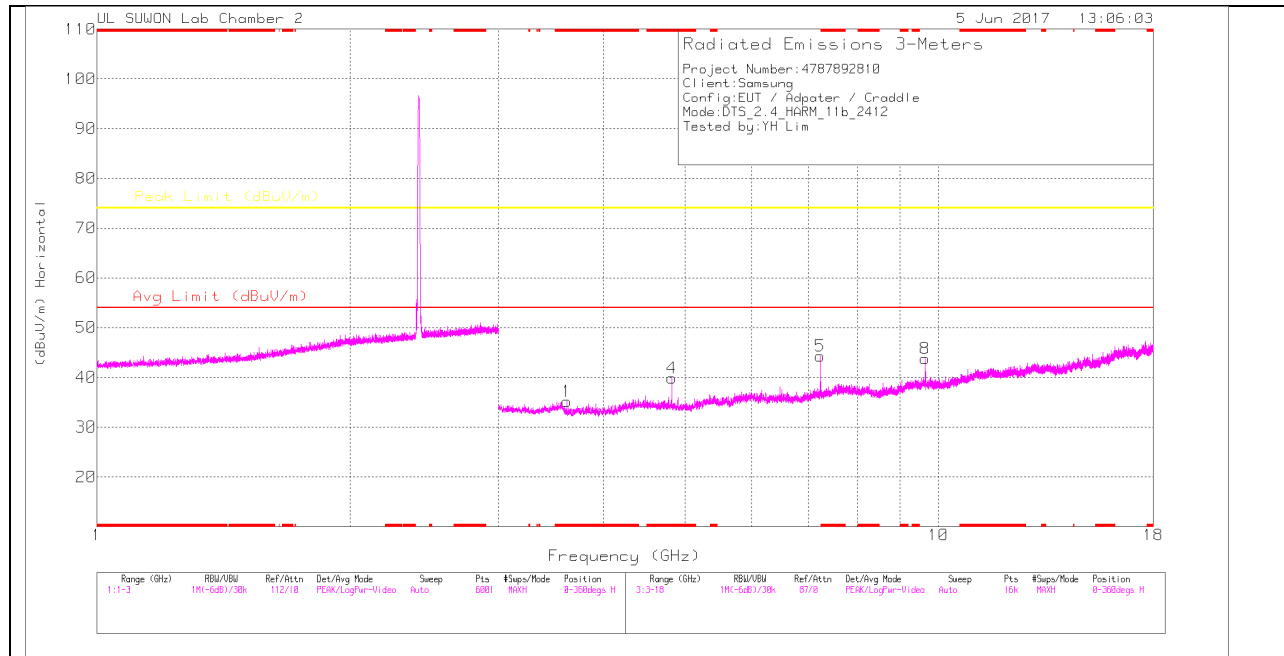
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

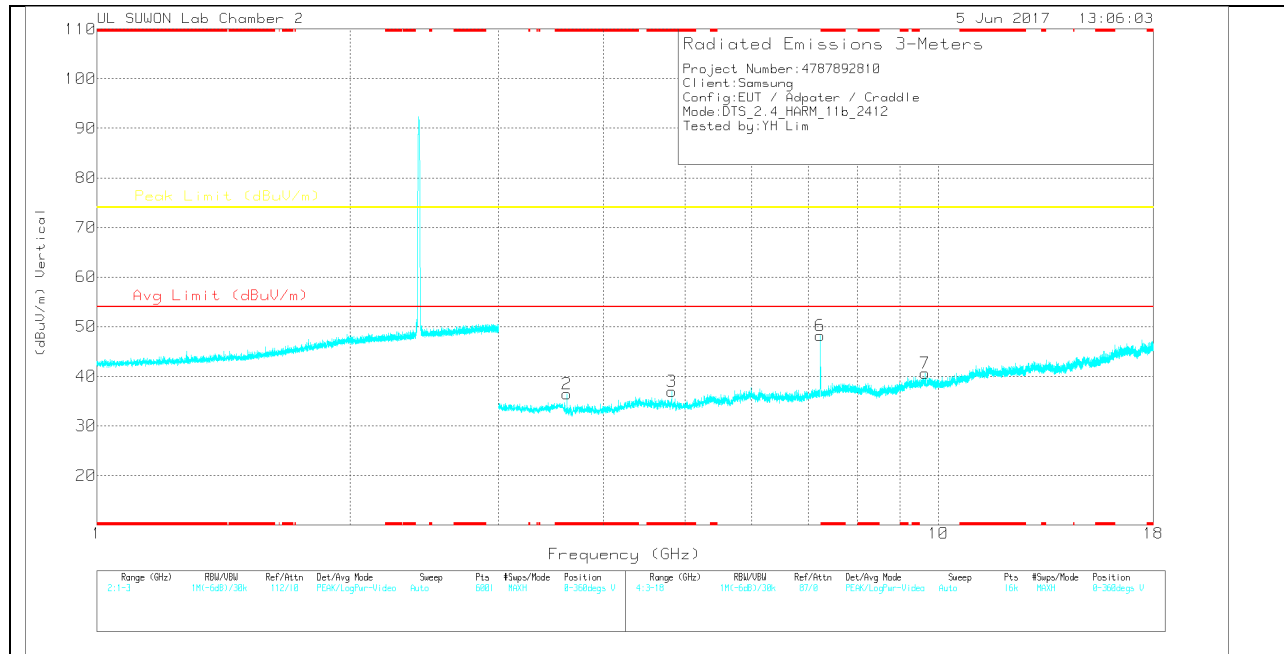
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.618	27.91	Pk	32.8	-25.5	0	35.21	-	-	74	-38.79	0-360	150	H
4	* 4.823	30.23	Pk	33.9	-24.3	0	39.83	-	-	74	-34.17	0-360	250	H
5	7.235	30.33	Pk	35.8	-21.9	0	44.23	-	-	74	-29.77	0-360	250	H
8	9.647	25.23	Pk	36.9	-18.3	0	43.83	-	-	74	-30.17	0-360	250	H
2	* 3.618	29.09	Pk	32.8	-25.5	0	36.39	-	-	74	-37.61	0-360	150	V
3	* 4.823	27.37	Pk	33.9	-24.3	0	36.97	-	-	74	-37.03	0-360	150	V
6	7.234	34.36	Pk	35.8	-21.9	0	48.26	-	-	74	-25.74	0-360	150	V
7	9.648	21.97	Pk	36.9	-18.3	0	40.57	-	-	74	-33.43	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk – Peak detector

Radiated Emissions

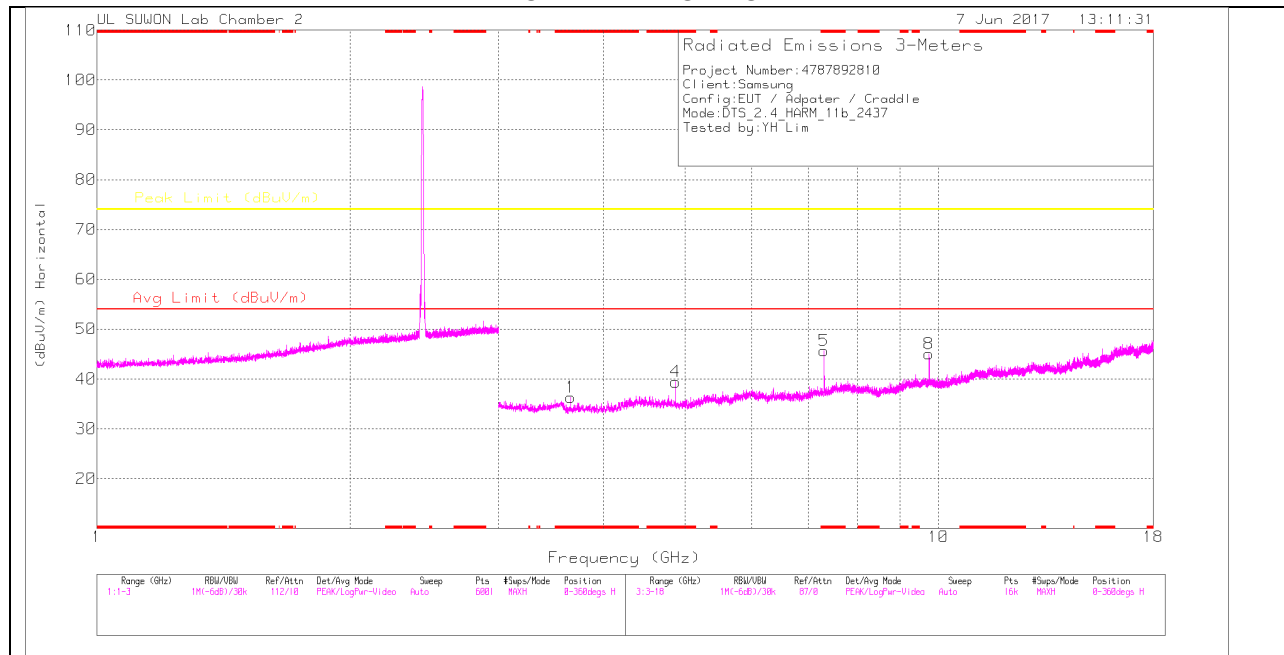
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.618	36.87	PK2	32.8	-25.5	0	44.17	-	-	74	-29.83	44	131	H
* 3.618	24.65	MAV1	32.8	-25.5	0	31.95	54	-22.05	-	-	44	131	H
* 3.618	38.21	PK2	32.8	-25.5	0	45.51	-	-	74	-28.49	12	103	V
* 3.618	27.48	MAV1	32.8	-25.5	0	34.78	54	-19.22	-	-	12	103	V
* 4.824	36.67	PK2	33.9	-24.3	0	46.27	-	-	74	-27.73	335	108	V
* 4.824	26.9	MAV1	33.9	-24.3	0	36.5	54	-17.5	-	-	335	108	V
* 4.824	37.19	PK2	33.9	-24.3	0	46.79	-	-	74	-27.21	94	126	H
* 4.824	28.57	MAV1	33.9	-24.3	0	38.17	54	-15.83	-	-	94	126	H
7.236	39.67	PK2	35.8	-21.9	0	53.57	-	-	74	-20.43	42	115	H
7.235	42.71	PK2	35.8	-21.9	0	56.61	-	-	74	-17.39	194	102	V
9.648	32.08	PK2	36.9	-18.3	0	50.68	-	-	74	-23.32	127	251	V
9.648	31.19	PK2	36.9	-18.3	0	49.79	-	-	74	-24.21	29	162	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

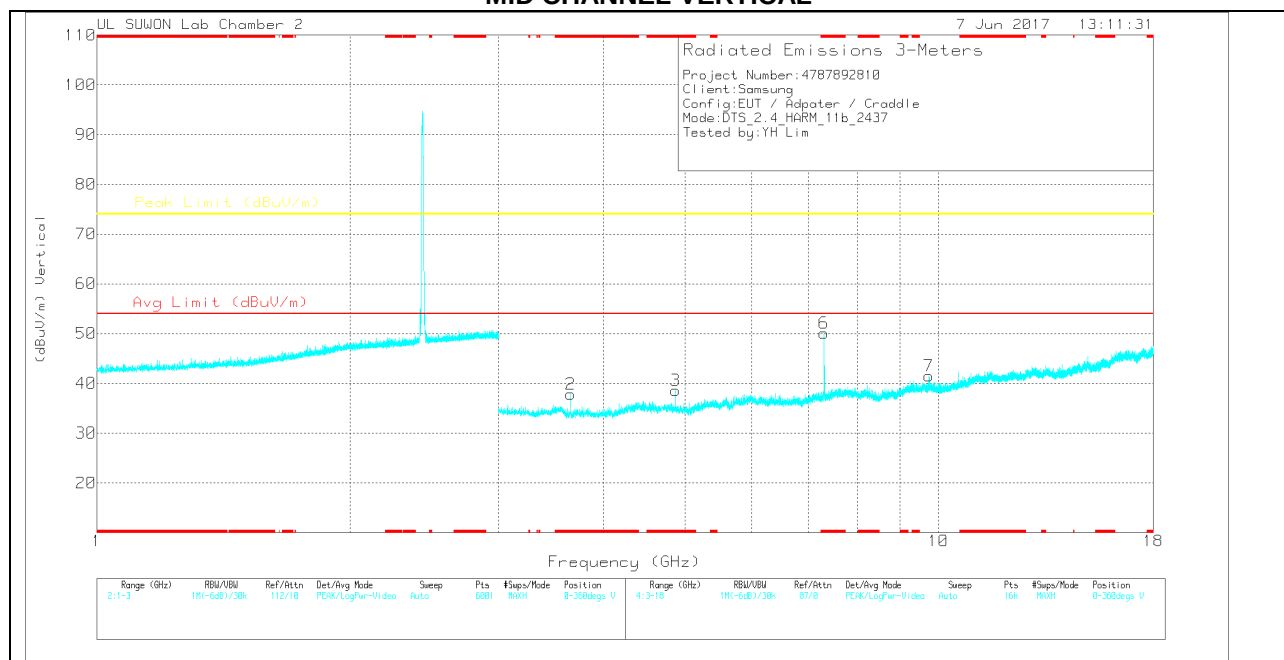
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.655	28.59	Pk	32.9	-25.2	0	36.29	-	-	74	-37.71	0-360	150	H
4	* 4.873	30.02	Pk	33.9	-24.5	0	39.42	-	-	74	-34.58	0-360	150	H
5	* 7.31	31.75	Pk	35.9	-22	0	45.65	-	-	74	-28.35	0-360	250	H
8	9.748	26.12	Pk	37	-18.1	0	45.02	-	-	74	-28.98	0-360	150	H
2	* 3.655	30.19	Pk	32.9	-25.2	0	37.89	-	-	74	-36.11	0-360	150	V
3	* 4.874	29.14	Pk	33.9	-24.5	0	38.54	-	-	74	-35.46	0-360	250	V
6	* 7.312	36.25	Pk	35.9	-22	0	50.15	-	-	74	-23.85	0-360	150	V
7	9.748	22.63	Pk	37	-18.1	0	41.53	-	-	74	-32.47	0-360	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk – Peak detector

Radiated Emissions

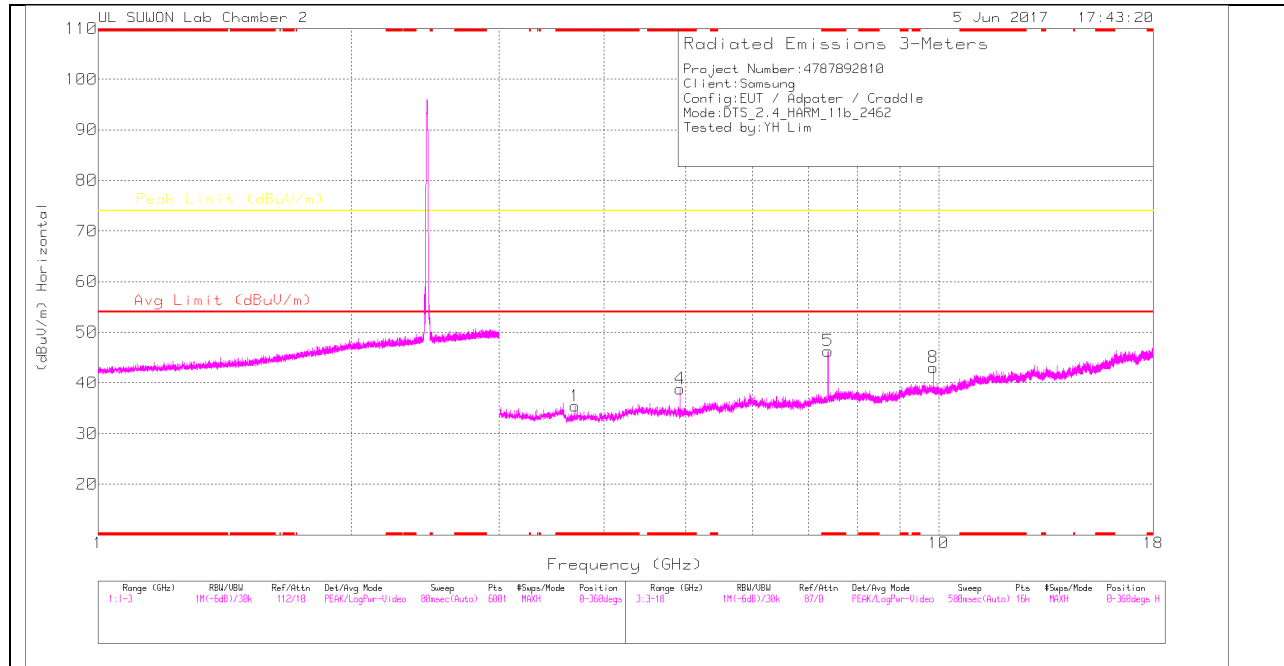
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.656	38.15	PK2	32.9	-25.2	0	45.85	-	-	74	-28.15	117	198	H
* 3.656	27.34	MAv1	32.9	-25.2	0	35.04	54	-18.96	-	-	117	198	H
* 3.656	38.75	PK2	32.9	-25.2	0	46.45	-	-	74	-27.55	50	147	V
* 3.656	29.83	MAv1	32.9	-25.2	0	37.53	54	-16.47	-	-	50	147	V
* 4.874	37.59	PK2	33.9	-24.5	0	46.99	-	-	74	-27.01	150	198	V
* 4.874	27.02	MAv1	33.9	-24.5	0	36.42	54	-17.58	-	-	150	198	V
* 4.874	38.73	PK2	33.9	-24.5	0	48.13	-	-	74	-25.87	98	121	H
* 4.874	29.56	MAv1	33.9	-24.5	0	38.96	54	-15.04	-	-	98	121	H
* 7.31	39.77	PK2	35.9	-22	0	53.67	-	-	74	-20.33	52	130	H
* 7.312	32.4	MAv1	35.9	-22	0	46.3	54	-7.7	-	-	52	130	H
* 7.312	43.33	PK2	35.9	-22	0	57.23	-	-	74	-16.77	191	133	V
* 7.312	36.64	MAv1	35.9	-22	0	50.54	54	-3.46	-	-	191	133	V
9.748	31.43	PK2	37	-18.1	0	50.33	-	-	74	-23.67	210	127	V
9.748	33.4	PK2	37	-18.1	0	52.3	-	-	74	-21.7	120	136	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

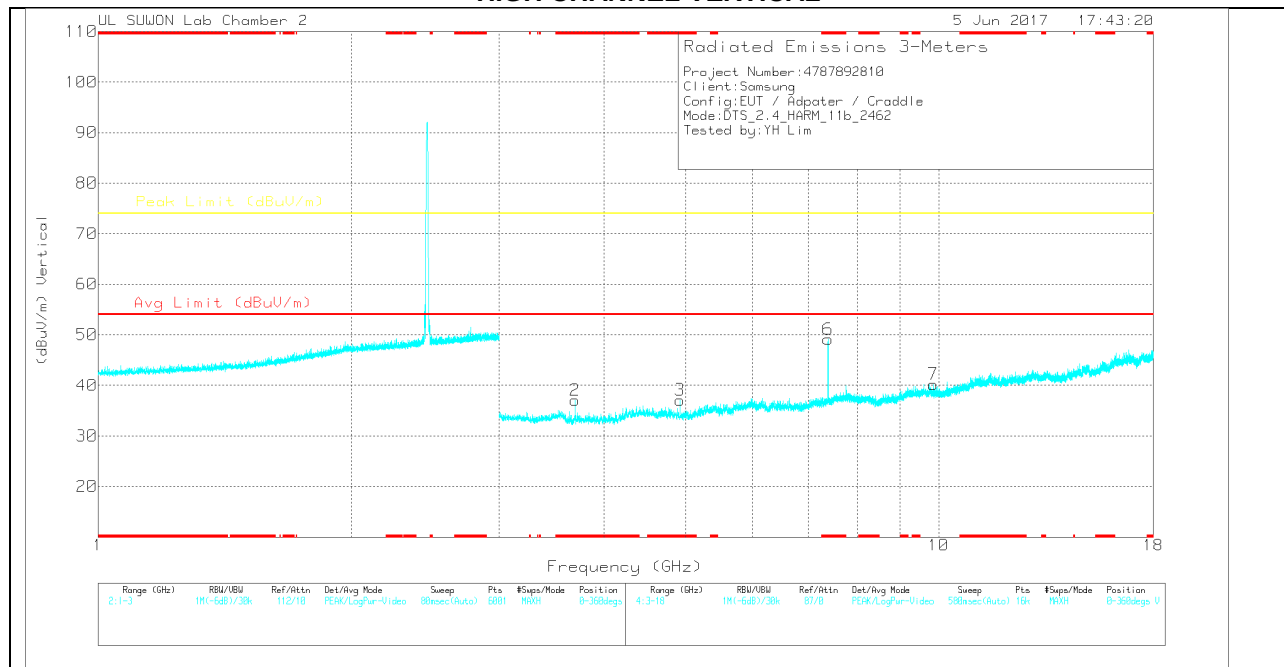
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.693	27.41	Pk	32.9	-24.9	0	35.41	-	-	74	-38.59	0-360	250	H
4	* 4.924	29.64	Pk	33.9	-24.7	0	38.84	-	-	74	-35.16	0-360	250	H
5	* 7.385	31.82	Pk	35.9	-21.4	0	46.32	-	-	74	-27.68	0-360	250	H
8	9.848	23.86	Pk	37.1	-17.9	0	43.06	-	-	74	-30.94	0-360	250	H
2	* 3.693	29.06	Pk	32.9	-24.9	0	37.06	-	-	74	-36.94	0-360	149	V
3	* 4.924	27.88	Pk	33.9	-24.7	0	37.08	-	-	74	-36.92	0-360	250	V
6	* 7.386	34.64	Pk	35.9	-21.4	0	49.14	-	-	74	-24.86	0-360	250	V
7	9.848	21.01	Pk	37.1	-17.9	0	40.21	-	-	74	-33.79	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk – Peak detector

Radiated Emissions

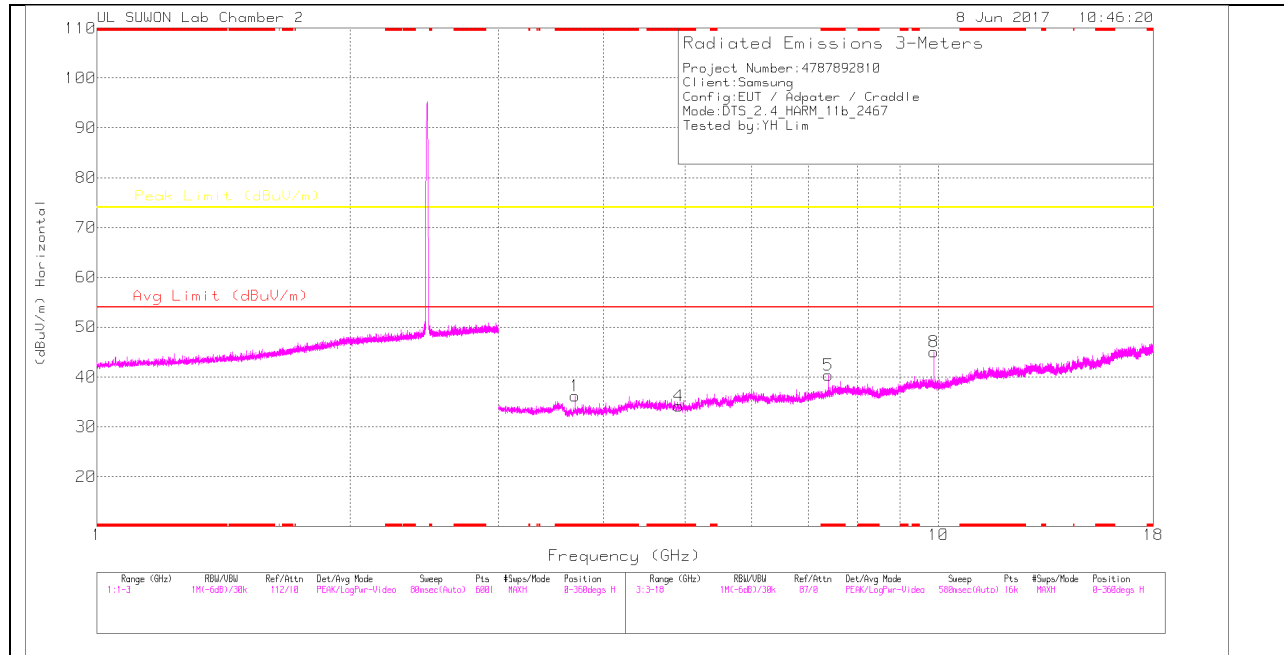
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.693	37.84	PK2	32.9	-24.9	0	45.84	-	-	74	-28.16	44	102	H
* 3.693	27.47	MAv1	32.9	-24.9	0	35.47	54	-18.53	-	-	44	102	H
* 3.693	38.52	PK2	32.9	-24.9	0	46.52	-	-	74	-27.48	47	203	V
* 3.693	29.73	MAv1	32.9	-24.9	0	37.73	54	-16.27	-	-	47	203	V
* 4.924	37.69	PK2	33.9	-24.7	0	46.89	-	-	74	-27.11	191	373	V
* 4.924	29.08	MAv1	33.9	-24.7	0	38.28	54	-15.72	-	-	191	373	V
* 4.924	37.95	PK2	33.9	-24.7	0	47.15	-	-	74	-26.85	61	107	H
* 4.924	28.27	MAv1	33.9	-24.7	0	37.47	54	-16.53	-	-	61	107	H
* 7.385	38.56	PK2	35.9	-21.4	0	53.06	-	-	74	-20.94	71	129	H
* 7.387	32.05	MAv1	35.9	-21.4	0	46.55	54	-7.45	-	-	71	129	H
* 7.387	41.68	PK2	35.9	-21.4	0	56.18	-	-	74	-17.82	194	108	V
* 7.387	35.57	MAv1	35.9	-21.4	0	50.07	54	-3.93	-	-	194	108	V
9.848	33.05	PK2	37.1	-17.9	0	52.25	-	-	74	-21.75	134	139	H
9.85	31.48	PK2	37.1	-17.9	0	50.68	-	-	74	-23.32	201	217	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

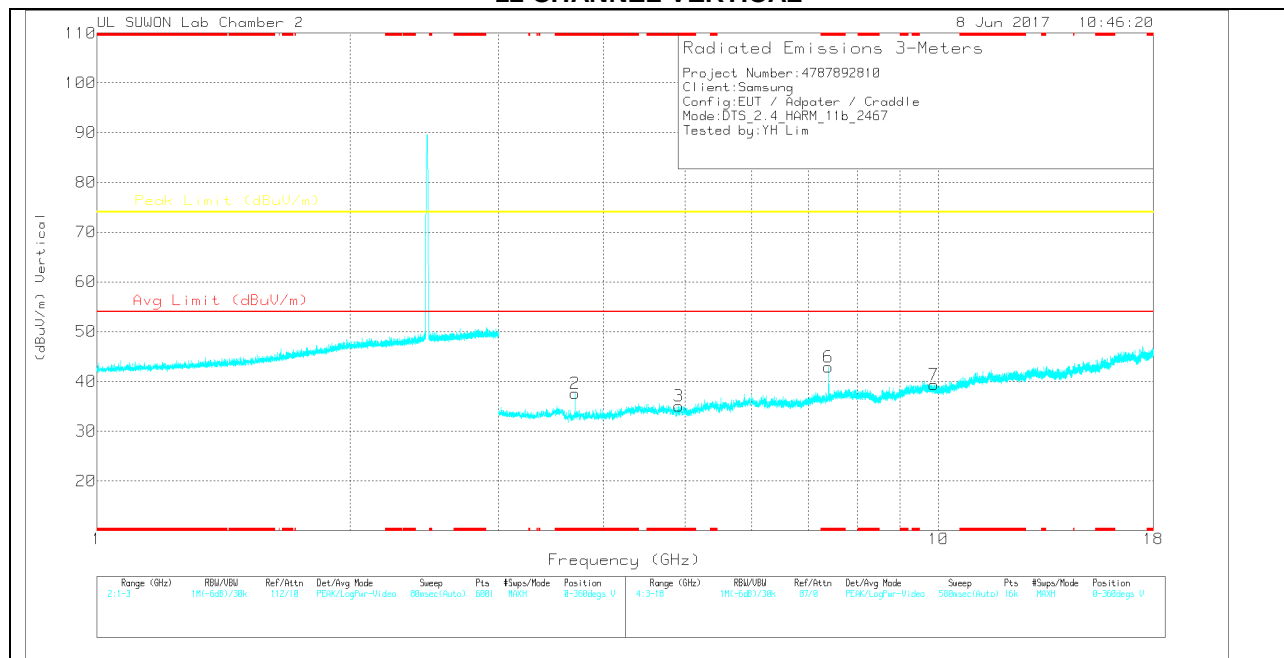
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

12 CHANNEL HORIZONTAL



12 CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

12 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.7	28.14	Pk	32.9	-24.9	0	36.14	-	-	74	-37.86	0-360	250	H
4	* 4.914	24.84	Pk	33.9	-24.6	0	34.14	-	-	74	-39.86	0-360	150	H
5	* 7.402	25.61	Pk	36	-21.3	0	40.31	-	-	74	-33.69	0-360	150	H
8	9.868	25.97	Pk	37.1	-18	0	45.07	-	-	74	-28.93	0-360	150	H
2	* 3.7	29.59	Pk	32.9	-24.9	0	37.59	-	-	74	-36.41	0-360	150	V
3	* 4.913	25.7	Pk	33.9	-24.6	0	35	-	-	74	-39	0-360	250	V
6	* 7.4	28.25	Pk	36	-21.3	0	42.95	-	-	74	-31.05	0-360	150	V
7	9.868	20.22	Pk	37.1	-18	0	39.32	-	-	74	-34.68	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.7	36.89	PK2	32.9	-24.9	0	44.89	-	-	74	-29.11	48	196	H
* 3.701	26.78	MAv1	32.9	-24.9	0	34.78	54	-19.22	-	-	48	196	H
* 3.701	38.52	PK2	32.9	-24.9	0	46.52	-	-	74	-27.48	61	155	V
* 3.7	29.39	MAv1	32.9	-24.9	0	37.39	54	-16.61	-	-	61	155	V
* 7.4	37.22	PK2	36	-21.3	0	51.92	-	-	74	-22.08	198	121	V
* 7.4	28.61	MAv1	36	-21.3	0	43.31	54	-10.69	-	-	198	121	V
* 7.4	36	PK2	36	-21.3	0	50.7	-	-	74	-23.3	61	131	H
* 7.4	26.09	MAv1	36	-21.3	0	40.79	54	-13.21	-	-	61	131	H
9.868	33.31	PK2	37.1	-18	0	52.41	-	-	74	-21.59	121	144	H
9.866	30.7	PK2	37.1	-18	0	49.8	-	-	74	-24.2	86	138	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average