

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Applicant: Barco NV
President Kennedypark 35 8500 Kortrijk Belgium

Product Name: ClickShare

Brand Name: Barco

Model No.: R9861600D01C

Model Difference: N/A

Report Number: T190521W02-RP1

FCC ID: 2AAED-R9861600D01

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Aug. 14, 2019

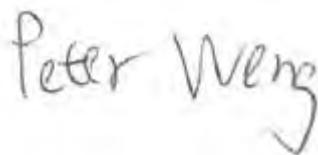
Date of Test: May 21, 2019 ~ Jul. 24, 2019

Date of EUT Received: May 21, 2019
Compliance Certification Services Inc. Wugu Lab.

Issued by: No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).



Tested By:

Peter Weng / Engineer



Approved By:

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190521W02-RP1	Rev.00	Initial creation of document	All	Aug. 05, 2019	Violetta Tang
T190521W02-RP1	Rev.01	Add statement of test mode on section 4.2	9	Aug. 14, 2019	Violetta Tang

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	ClickShare
Brand Name:	Barco
Model No.:	R9861600D01C
Model Difference:	N/A
Hardware Version:	DVT
Software Version:	4.5.23.1 (SX-2.03)
Power Supply:	5Vdc from USB Port

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	18.67	DSSS
g			22.24	
n_HT20			22.56	
n_HT40	2422-2452	7	21.69	
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps		

1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Ceramic Chip	Pulse Electronics	W3078	2400 – 2483.5	1.7

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.4 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

1.7 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber,
the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the
result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Configuration of Tested System

Fig. 2-1 Conducted & Radiated Emission Configuration



Fig. 2-2 Conducted Emission (AC Power Line) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	T420	S0012407	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> MIMO

Note: The device didn't support MIMO mode.

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 11	1,6,11	OFDM	6	Ch1
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 11	1,6,11	DSSS	1	Ch1
802.11g	1 to 11	1,6,11	OFDM	6	Ch1
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS 0	Ch1
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS 0	Ch1

Note:
The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	Ch1
802.11g	1 to 11	1,6,11	OFDM	6	Ch1
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS 0	Ch1
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS 0	Ch1

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Peak Output Power	+/- 1.922 dB
6dB Bandwidth	+/- 61.248 Hz
100 kHz Bandwidth of Frequency Band Edges	+/- 1.922 dB
Peak Power Density	+/- 2.004 dB
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/29/2019	06/28/2020
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZ- BECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

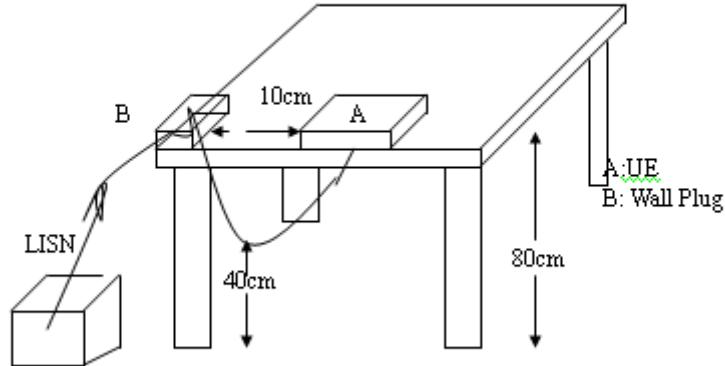
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

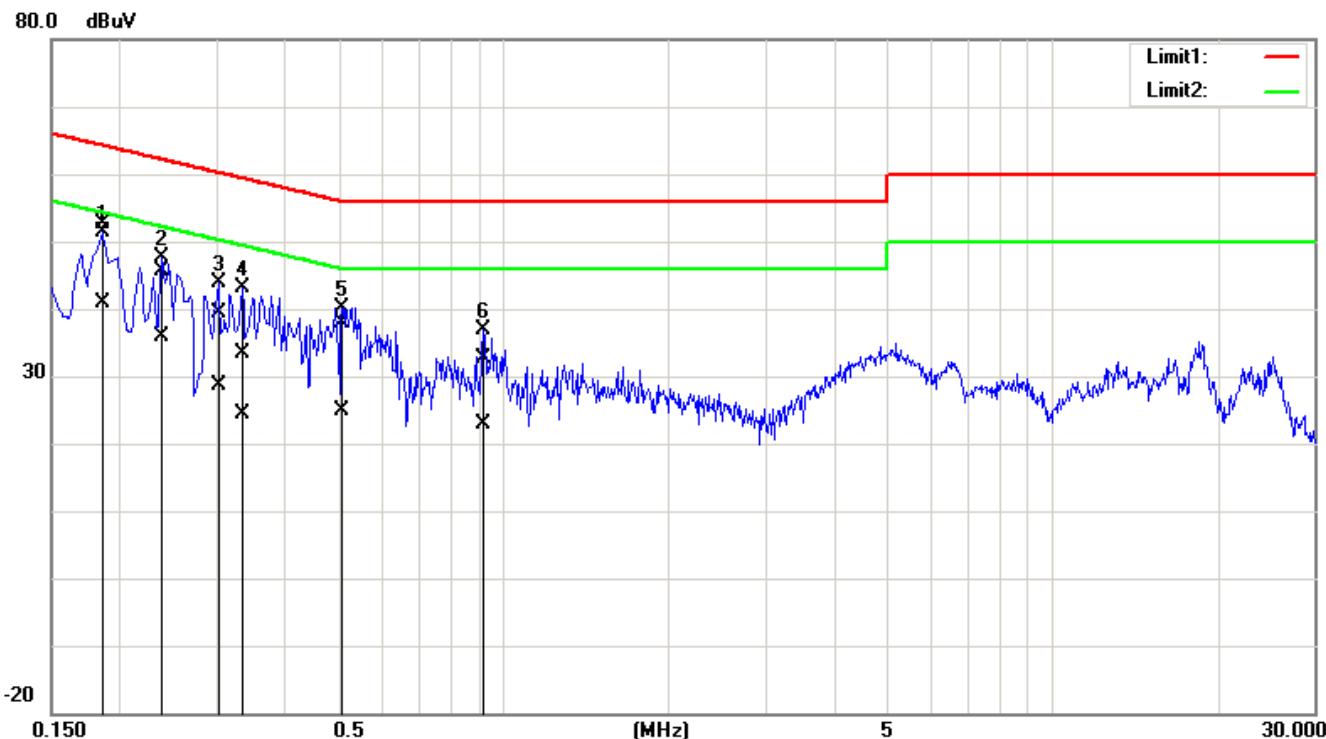
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/7/11
Line:	L1	Temp.(°C)/Hum.(%):	24.2(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Gary



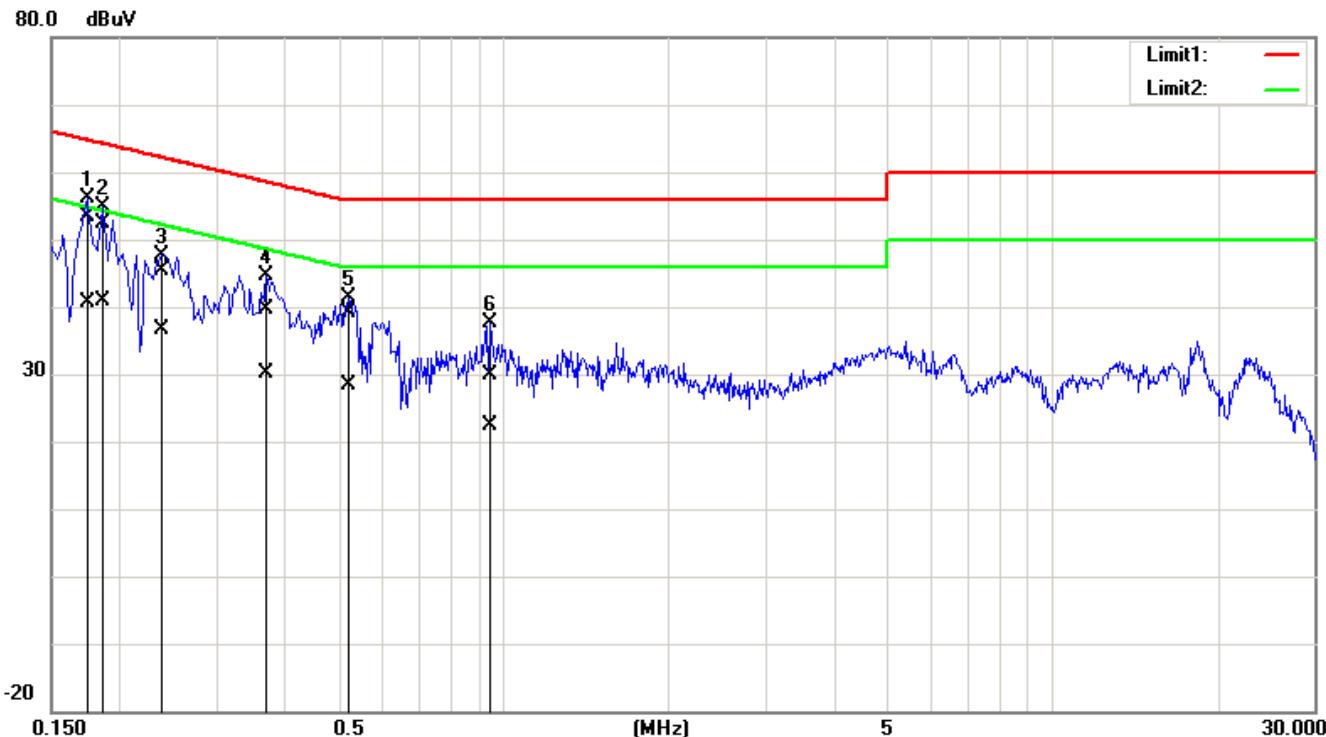
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1860	42.39	30.72	10.13	52.52	40.85	64.21	54.21	-11.69	-13.36	Pass
2	0.2380	35.57	25.82	10.13	45.70	35.95	62.17	52.17	-16.47	-16.22	Pass
3	0.3020	29.12	18.43	10.14	39.26	28.57	60.19	50.19	-20.93	-21.62	Pass
4	0.3340	23.29	14.34	10.14	33.43	24.48	59.35	49.35	-25.92	-24.87	Pass
5	0.5100	27.79	14.83	10.14	37.93	24.97	56.00	46.00	-18.07	-21.03	Pass
6	0.9220	22.38	12.69	10.17	32.55	22.86	56.00	46.00	-23.45	-23.14	Pass

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Description:	Operation	Date:	2019/7/11
Line:	N	Temp.(°C)/Hum.(%):	24.2(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Gary



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1740	43.37	30.71	10.02	53.39	40.73	64.76	54.77	-11.37	-14.04	Pass
2	0.1860	42.34	30.94	10.02	52.36	40.96	64.21	54.21	-11.85	-13.25	Pass
3	0.2380	35.36	26.58	10.02	45.38	36.60	62.16	52.17	-16.78	-15.57	Pass
4	0.3700	29.60	20.05	10.03	39.63	30.08	58.50	48.50	-18.87	-18.42	Pass
5	0.5220	29.03	18.31	10.03	39.06	28.34	56.00	46.00	-16.94	-17.66	Pass
6	0.9460	19.96	12.26	10.04	30.00	22.30	56.00	46.00	-26.00	-23.70	Pass

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
802.11b	99.04	0.04	0.07	0.01
802.11g	95.12	0.22	0.48	1.00
802.11n_20	94.31	0.25	0.52	1.00
802.11n_40	89.10	0.50	1.05	2.00

$$b = 99.04\%, g = 95.12\%, n_ht_20 = 94.31\%, n_ht_40 = 89.1\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9904) = 0.04$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9512) = 0.22$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9431) = 0.25$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.891) = 0.5$$

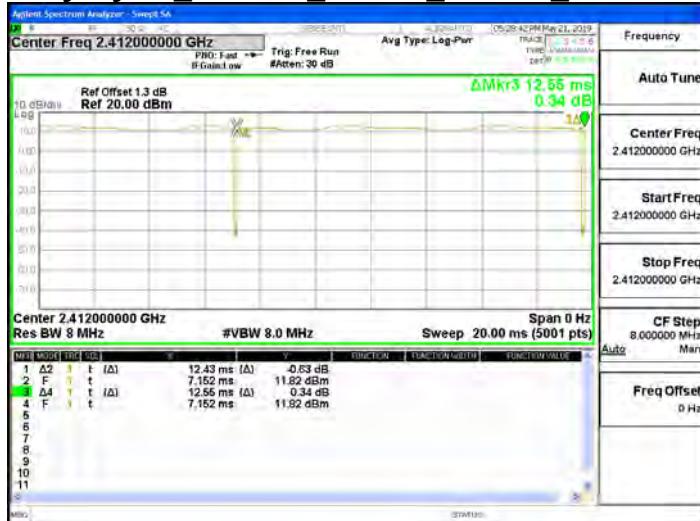
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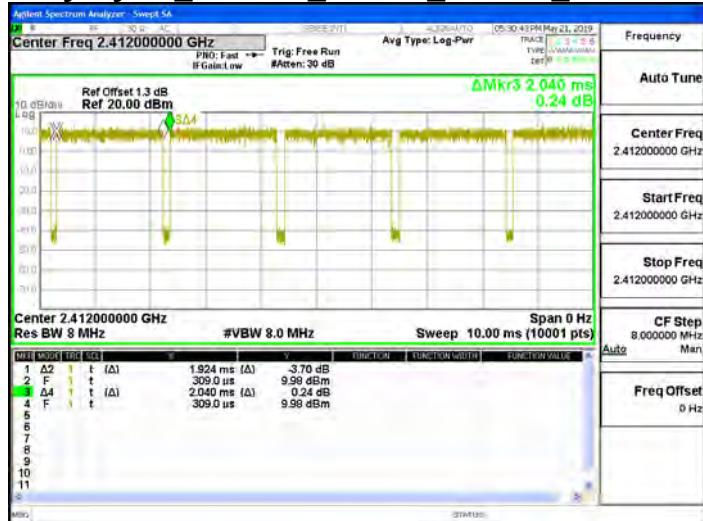
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

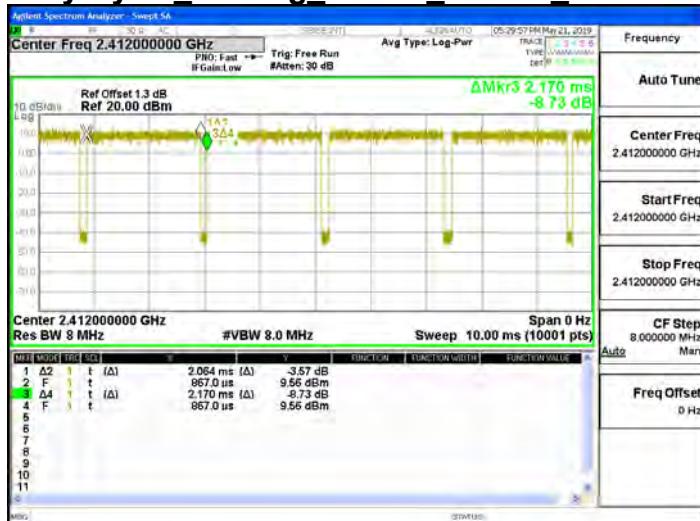
Duty Cycle_802.11b_20MHz_Chain1_2412MHz



Duty Cycle_802.11n_20MHz_Chain1_2412MHz



Duty Cycle_802.11g_20MHz_Chain1_2412MHz



Duty Cycle_802.11n_40MHz_Chain1_2422MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

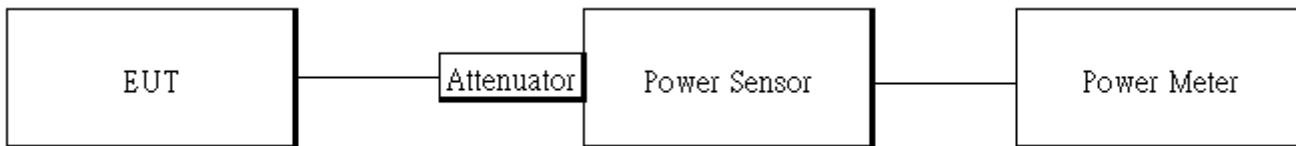
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

8.3 Test Set-up



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

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8.5 Measurement Result

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2412	1	18.40	69.18	30.00	PASS
6	2437	1	18.67	73.62	30.00	PASS
11	2462	1	18.65	73.28	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit (dBm)	RESULT
1	2412	1	15.85	38.48	30.00	PASS
6	2437	1	15.97	39.55	30.00	PASS
11	2462	1	15.92	39.10	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2412	6	21.54	142.56	30.00	PASS
6	2437	6	21.14	130.02	30.00	PASS
11	2462	6	22.24	167.49	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit (dBm)	RESULT
1	2412	6	14.88	30.74	30.00	PASS
6	2437	6	14.93	31.10	30.00	PASS
11	2462	6	15.90	38.88	30.00	PASS

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802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
1	2412	MCS0	21.46	139.96	30.00	PASS
6	2437	MCS0	21.44	139.32	30.00	PASS
11	2462	MCS0	22.56	180.30	30.00	PASS
802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit (dBm)	RESULT
1	2412	MCS0	14.96	31.36	30.00	PASS
6	2437	MCS0	14.88	30.79	30.00	PASS
11	2462	MCS0	15.89	38.85	30.00	PASS
802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	RESULT
3	2422	MCS0	21.31	135.21	30.00	PASS
6	2437	MCS0	21.56	143.22	30.00	PASS
9	2452	MCS0	21.69	147.57	30.00	PASS
802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit (dBm)	RESULT
3	2422	MCS0	14.92	31.05	30.00	PASS
6	2437	MCS0	14.86	30.63	30.00	PASS
9	2452	MCS0	14.82	30.35	30.00	PASS

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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9 6DB BANDWIDTH MEASUREMENT

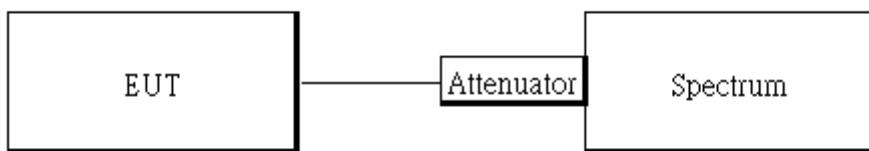
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

6dB Bandwidth

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8077.00	> 500	PASS
2437	8077.00	> 500	PASS
2462	9042.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15140.00	> 500	PASS
2437	15160.00	> 500	PASS
2462	16150.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150.00	> 500	PASS
2437	15150.00	> 500	PASS
2462	15120.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35140.00	> 500	PASS
2437	35140.00	> 500	PASS
2452	35150.00	> 500	PASS

*Refer to next page for plots

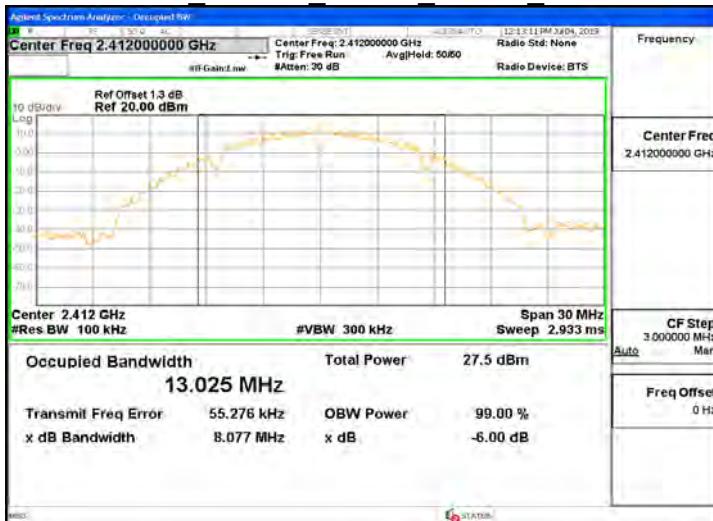
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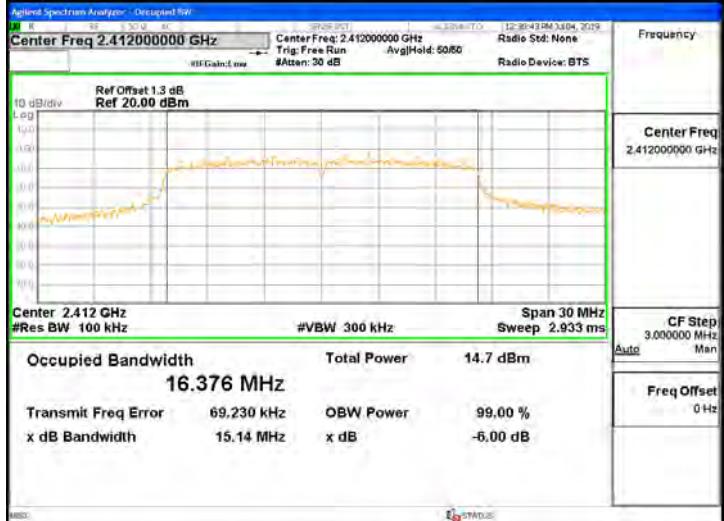
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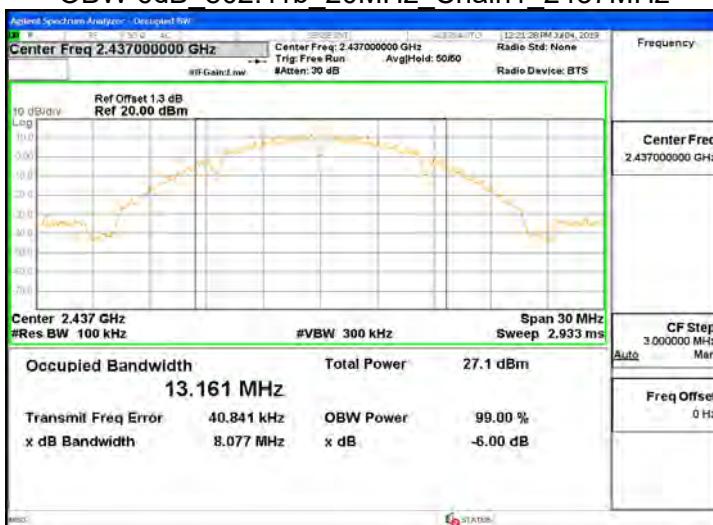
OBW 6dB 802.11b 20MHz Chain1 2412MHz



OBW 6dB 802.11g 20MHz Chain1 2412MHz



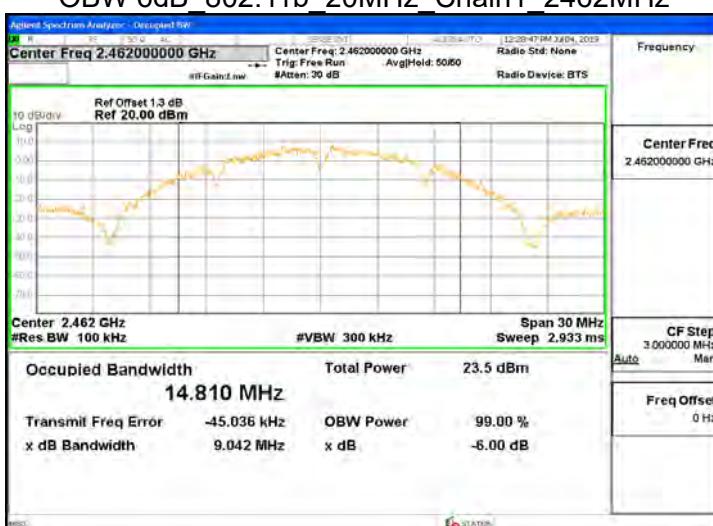
OBW 6dB 802.11b 20MHz Chain1 2437MHz



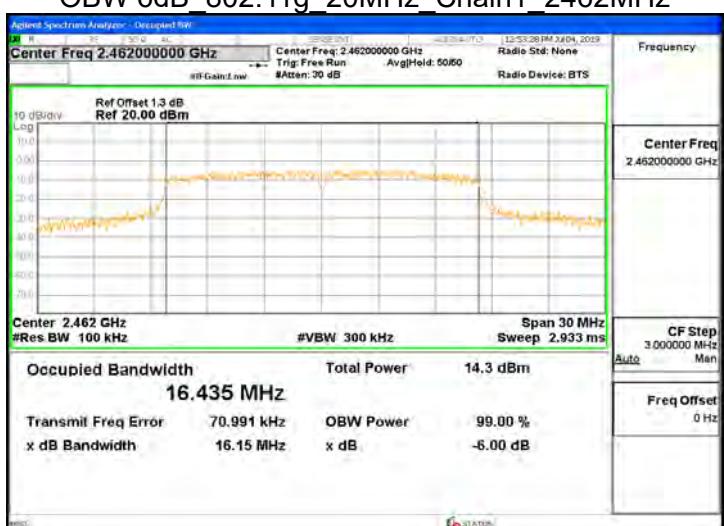
OBW 6dB 802.11g 20MHz Chain1 2437MHz



OBW 6dB 802.11b 20MHz Chain1 2462MHz



OBW 6dB 802.11g 20MHz Chain1 2462MHz

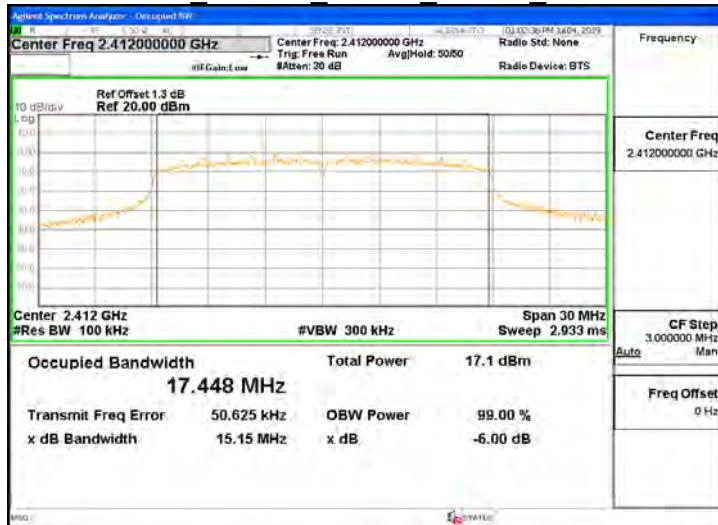


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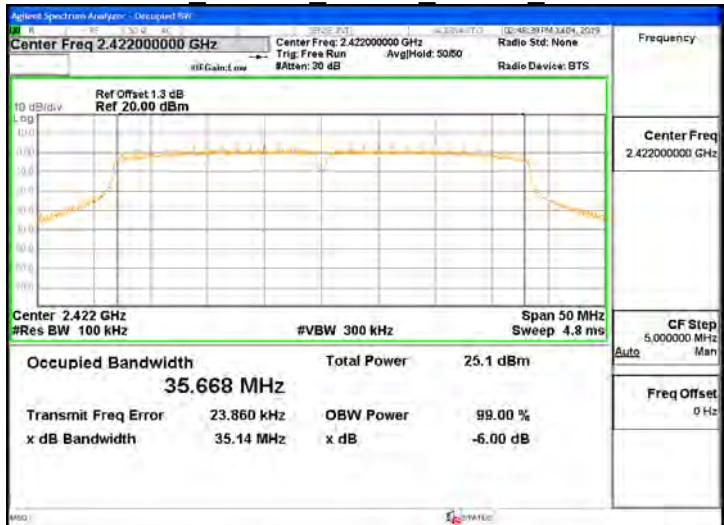
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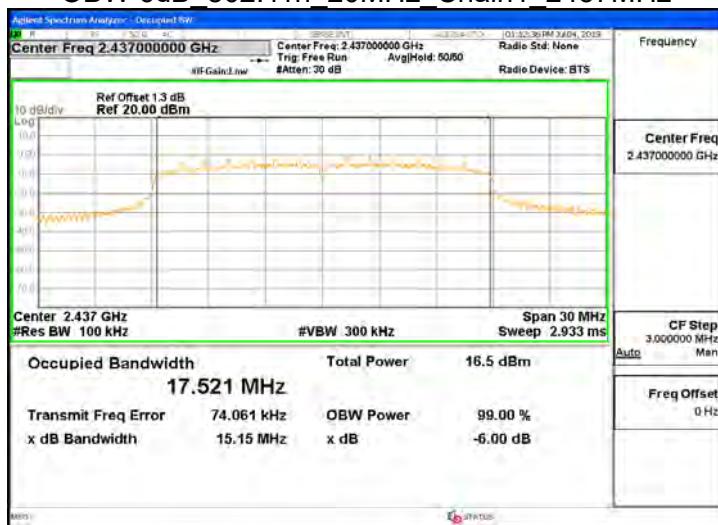
OBW 6dB_802.11n_20MHz_Chain1_2412MHz



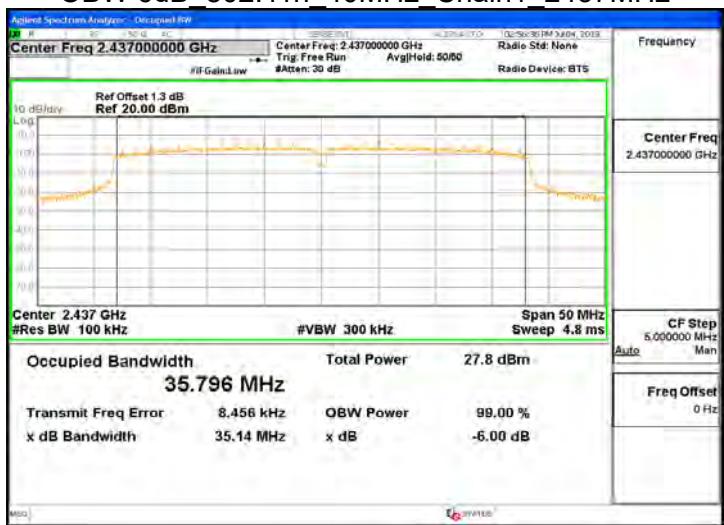
OBW 6dB_802.11n_40MHz_Chain1_2422MHz



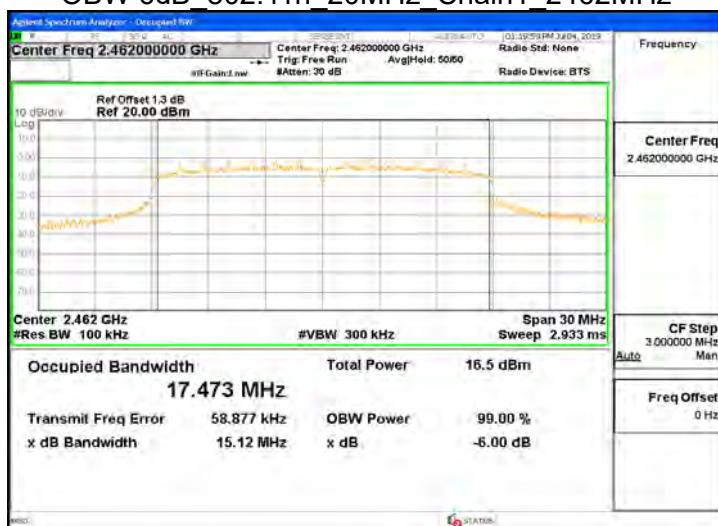
OBW 6dB 802.11n 20MHz Chain1 2437MHz



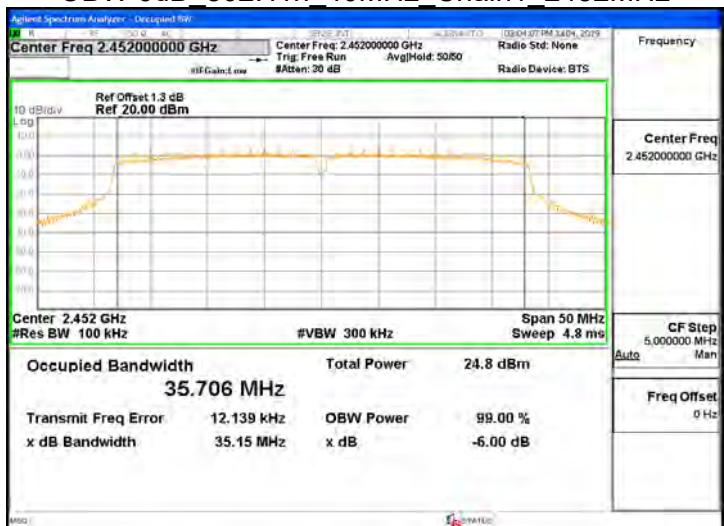
OBW 6dB 802.11n 40MHz Chain1 2437MHz



OBW 6dB 802.11n 20MHz Chain1 2462MHz



OBW 6dB 802.11n 40MHz Chain1 2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

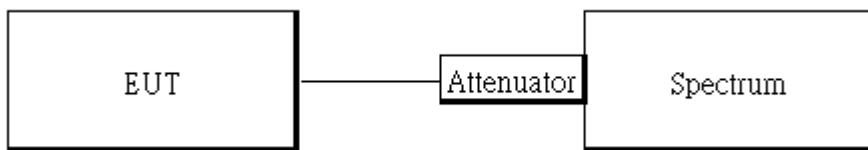
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. 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).

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.

10.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

10.3 Test SET-UP



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10.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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10.5 Measurement Result

Reference Level of Limit 802.11b mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	12.05	-7.95	2412	-1.80	-21.80
2437	3.19	-16.81	2437	0.23	-19.77
2462	6.98	-13.02	2462	-1.84	-21.84

Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	-0.15	-20.15	2422	4.09	-15.91
2437	-0.71	-20.71	2437	6.90	-13.10
2462	-0.37	-20.37	2452	3.77	-16.23

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Reference Level_802.11b_20MHz_Chain1_2412MHz



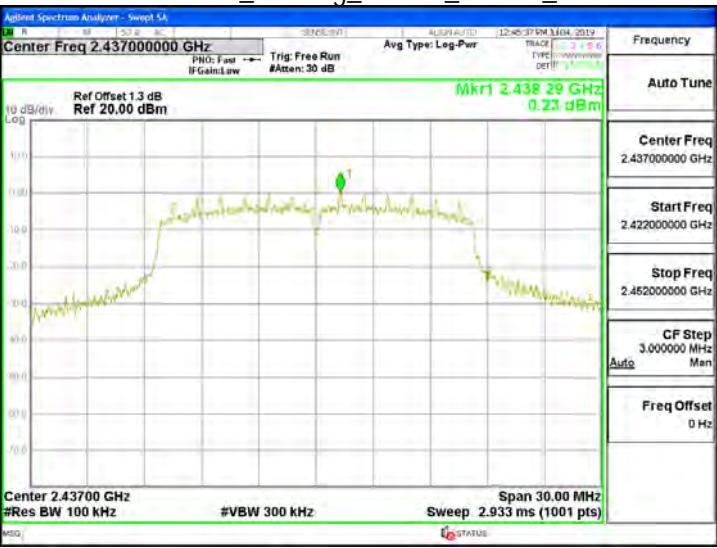
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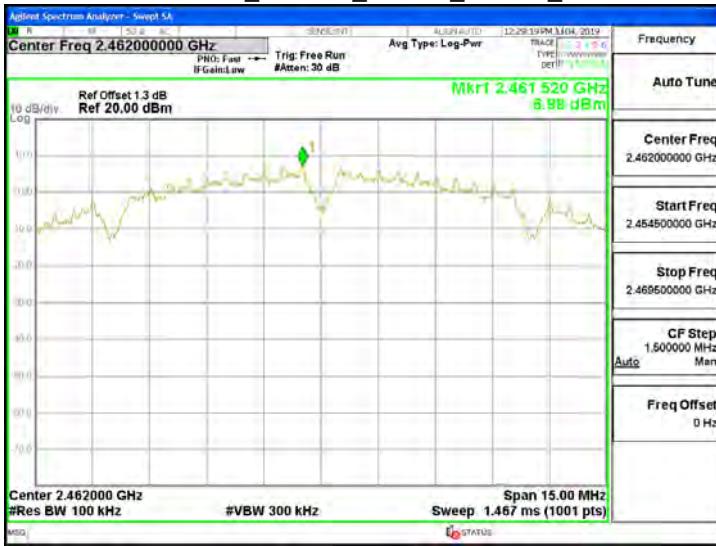
Reference Level_802.11b_20MHz_Chain1_2437MHz



Reference Level_802.11g_20MHz_Chain1_2437MHz



Reference Level_802.11b_20MHz_Chain1_2462MHz



Reference Level_802.11g_20MHz_Chain1_2462MHz



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Reference Level_802.11n_20MHz_Chain1_2412MHz



Reference Level_802.11n_40MHz_Chain1_2422MHz



Reference Level_802.11n_20MHz_Chain1_2437MHz



Reference Level_802.11n_40MHz_Chain1_2437MHz



Reference Level_802.11n_20MHz_Chain1_2462MHz



Reference Level_802.11n_40MHz_Chain1_2452MHz



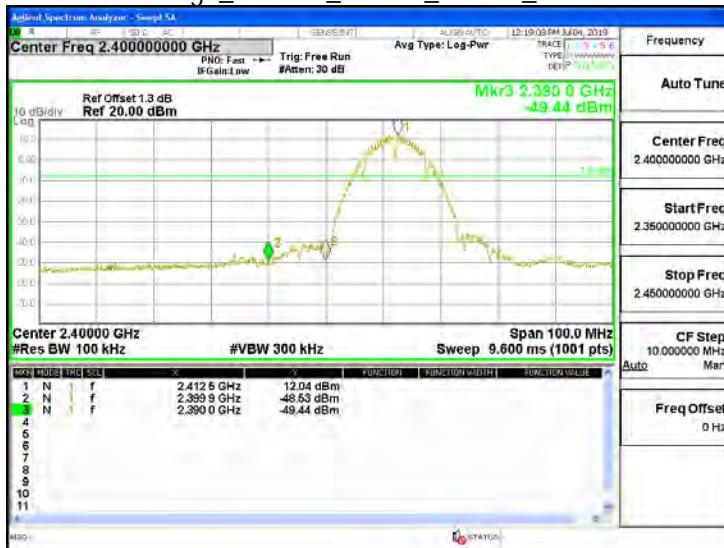
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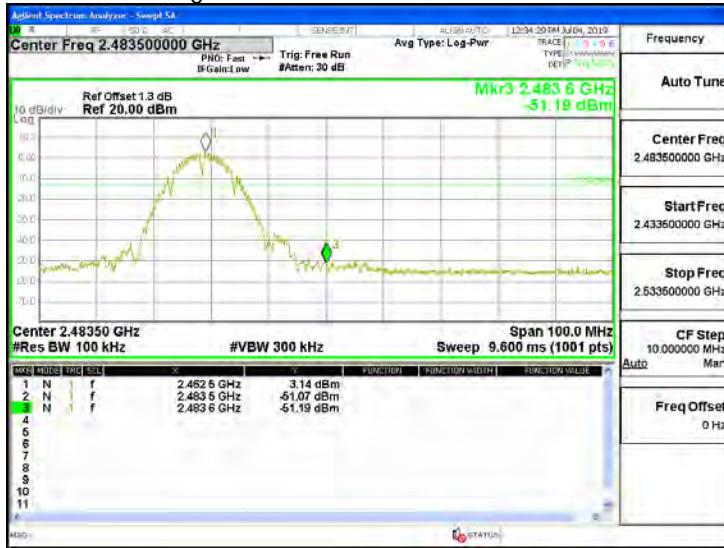
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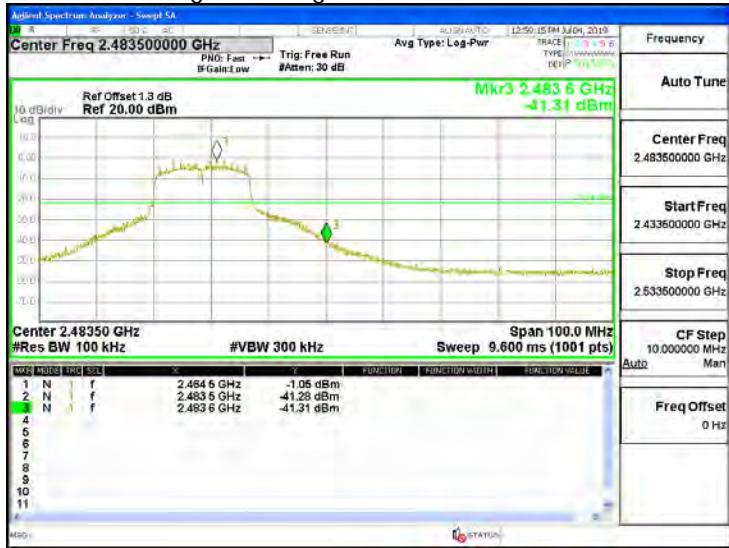
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Band Edge_802.11b_20MHz_Chain1_2462MHz



Band Edge_802.11g_20MHz_Chain1_2462MHz

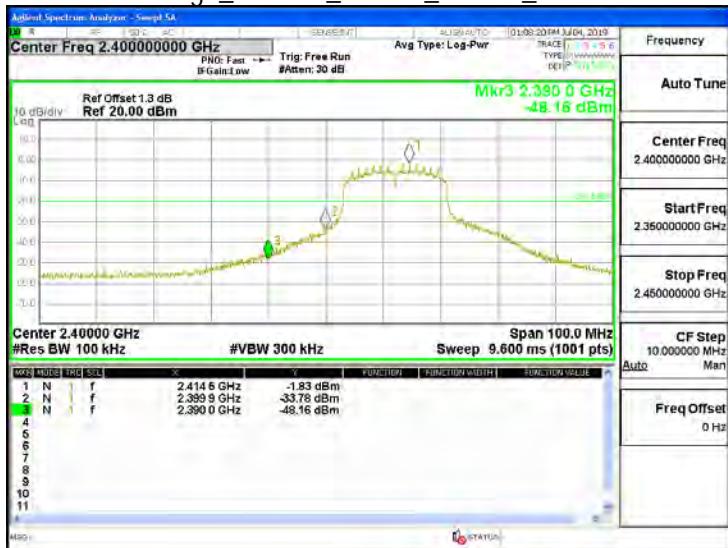


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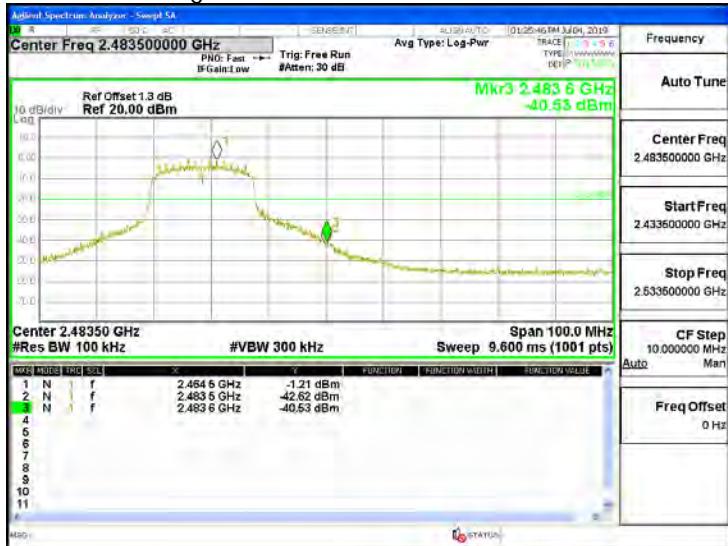
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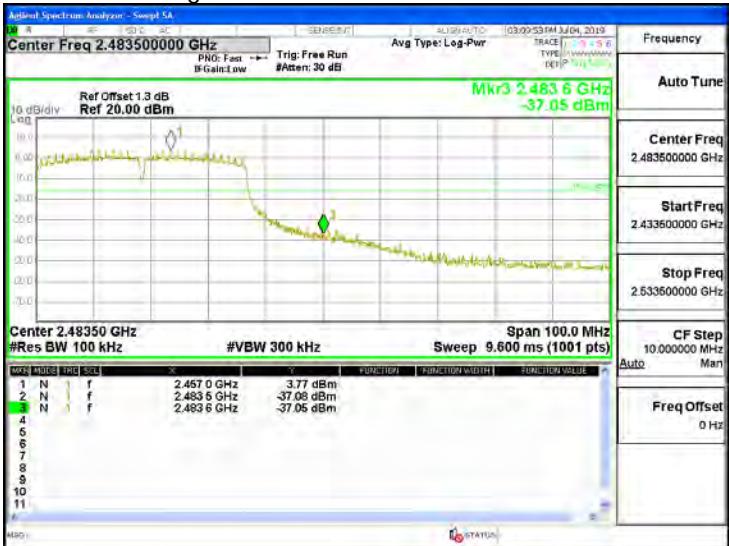
Band Edge_802.11n_40MHz_Chain1_2422MHz



Band Edge_802.11n_20MHz_Chain1_2462MHz



Band Edge_802.11n_40MHz_Chain1_2452MHz



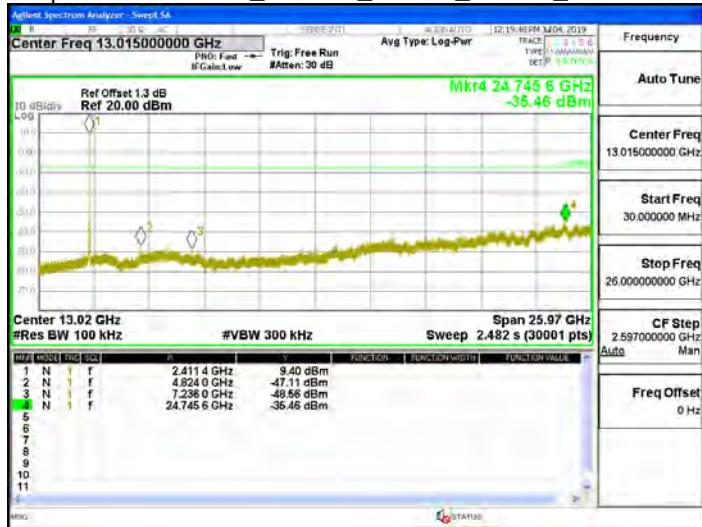
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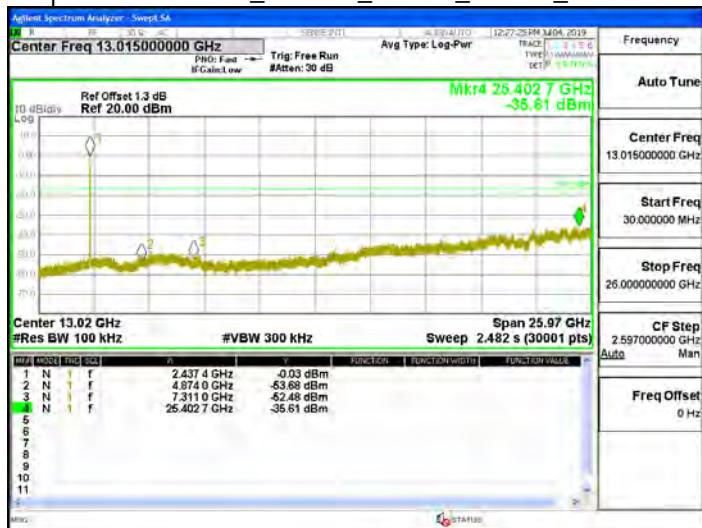
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Spurious Emission_802.11g_20MHz_Chain1_2412MHz



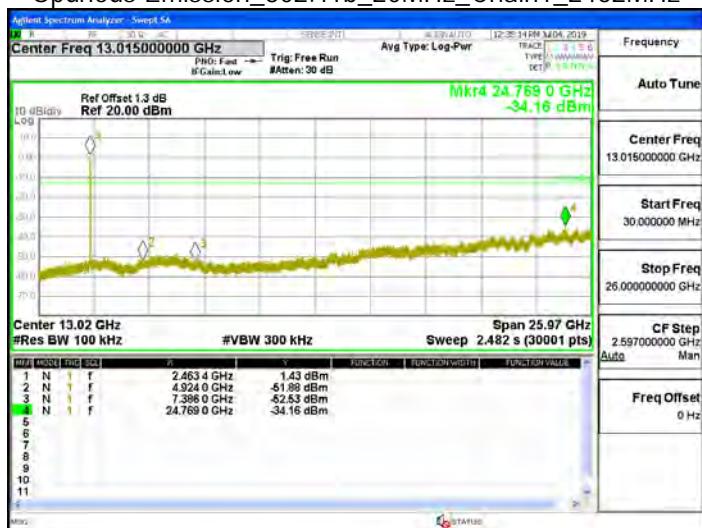
Spurious Emission_802.11b_20MHz_Chain1_2437MHz



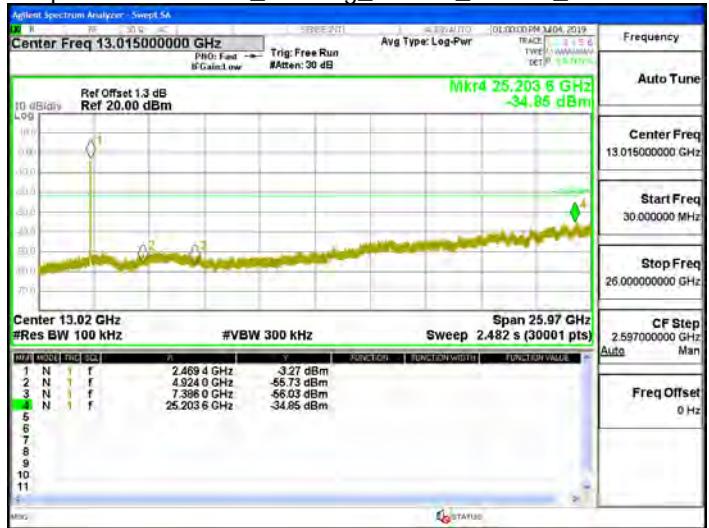
Spurious Emission_802.11g_20MHz_Chain1_2437MHz



Spurious Emission_802.11b_20MHz_Chain1_2462MHz



Spurious Emission_802.11g_20MHz_Chain1_2462MHz



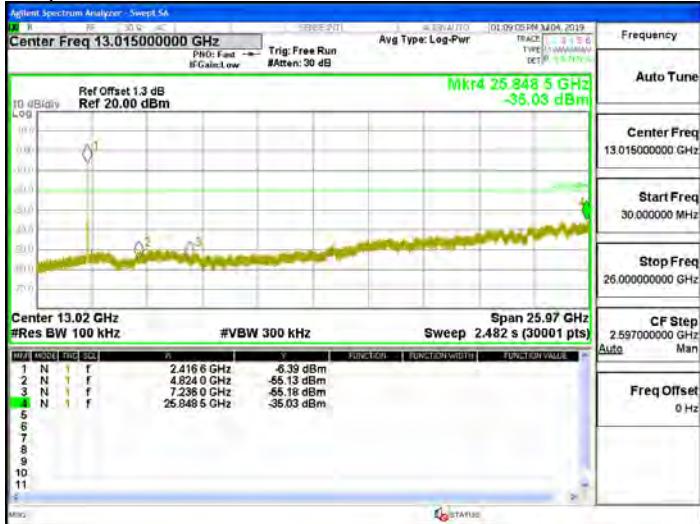
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Spurious Emission_802.11n_20MHz_Chain1_2412MHz



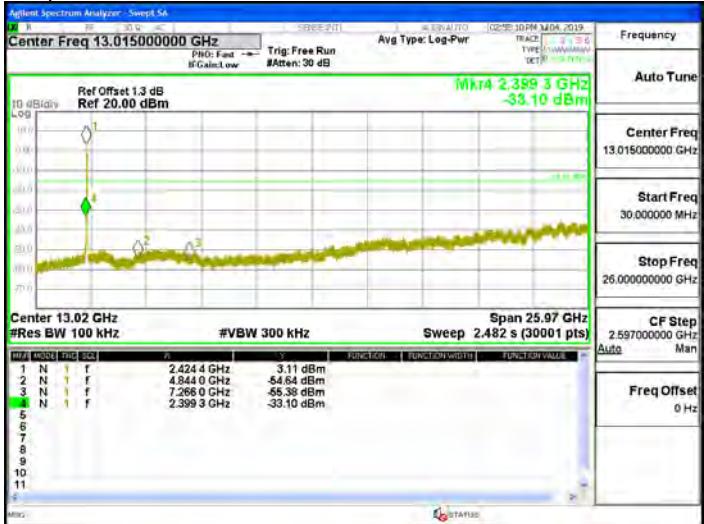
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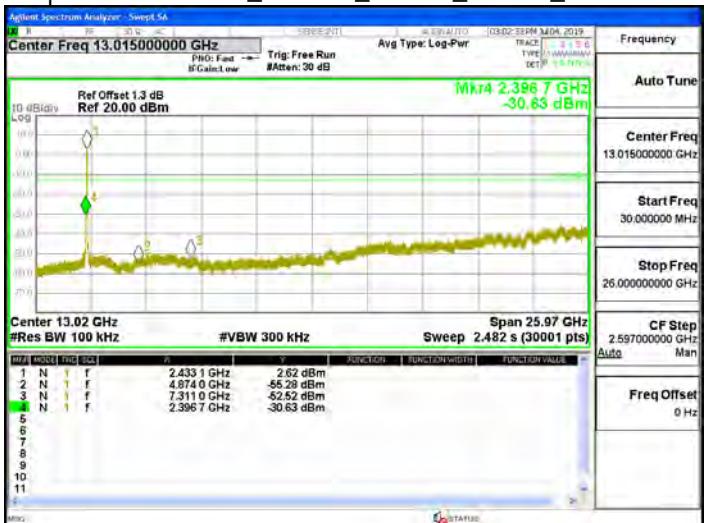
Spurious Emission 802.11n 20MHz Chain1 2462MHz



Spurious Emission_802.11n_40MHz_Chain1_2422MHz



Spurious Emission_802.11n_40MHz_Chain1_2437MHz



Spurious Emission 802.11n 40MHz Chain1 2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Low Pass Filter	EWT	EWT-56-0019	RF46	02/26/2019	02/25/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

NOTE: N.C.R refers to Not Calibrated Required.

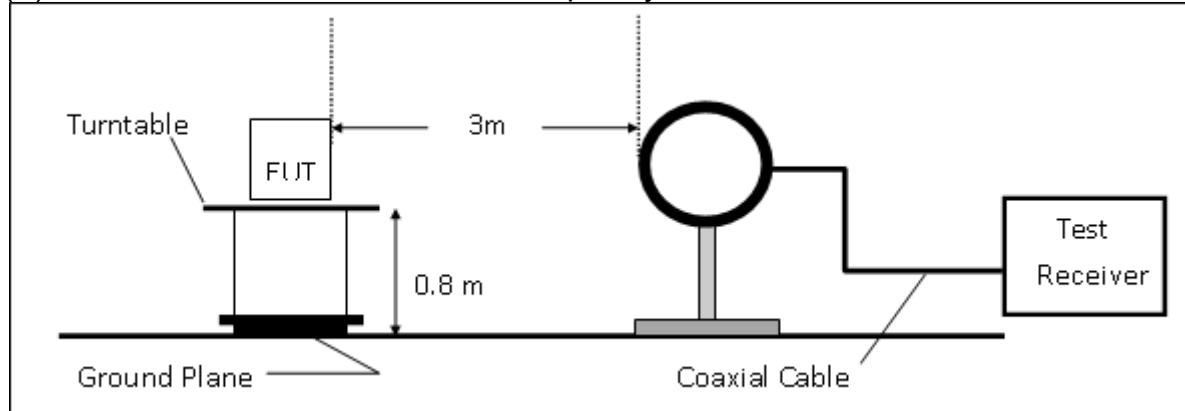
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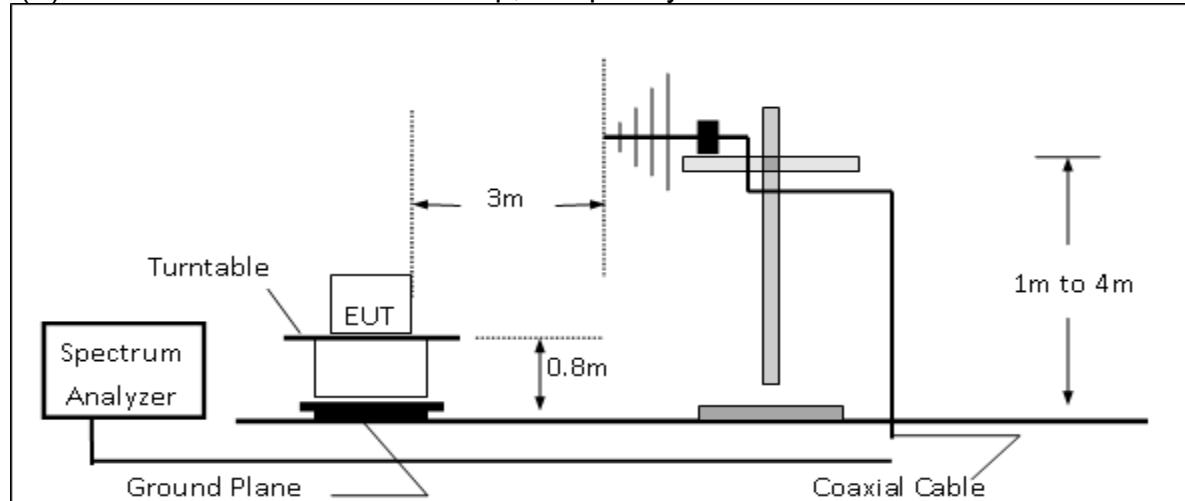
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11.3 Test SET-UP

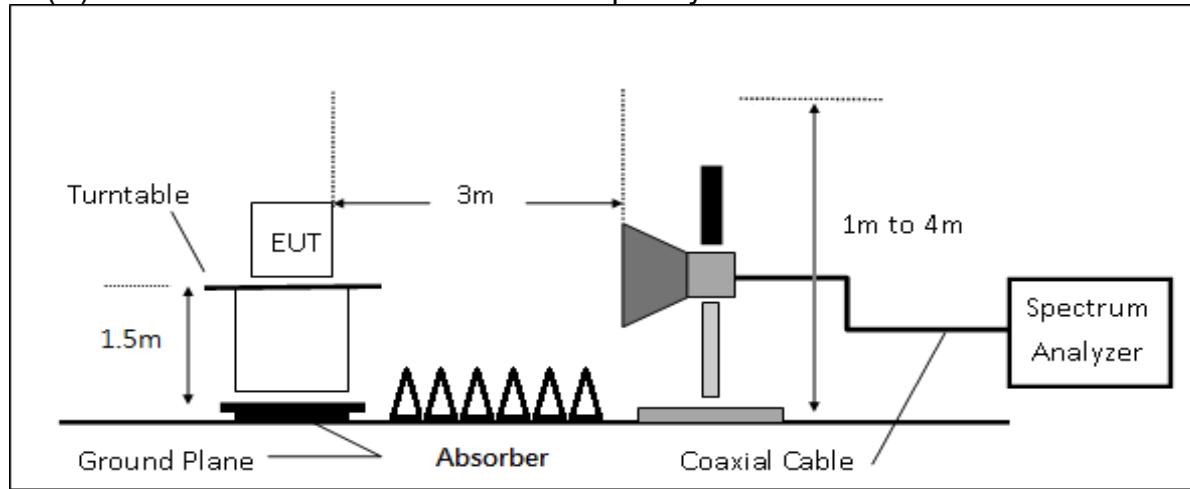
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result

Report Number :T190521W02

Test Date :2019-07-24

Operation Band :802.11b

Temp./Humi. :21.5/48

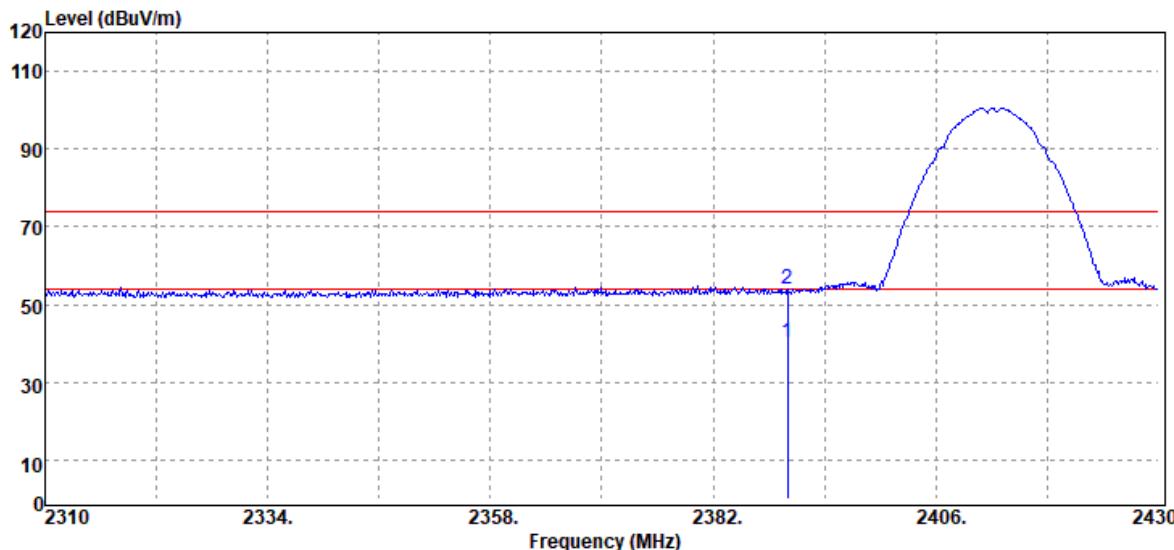
Frequency :2412 MHz

Antenna Pol. :VERTICAL

Operation Mode :BE CH Low

Engineer :Kane

EUT Pol. :E2 Plan



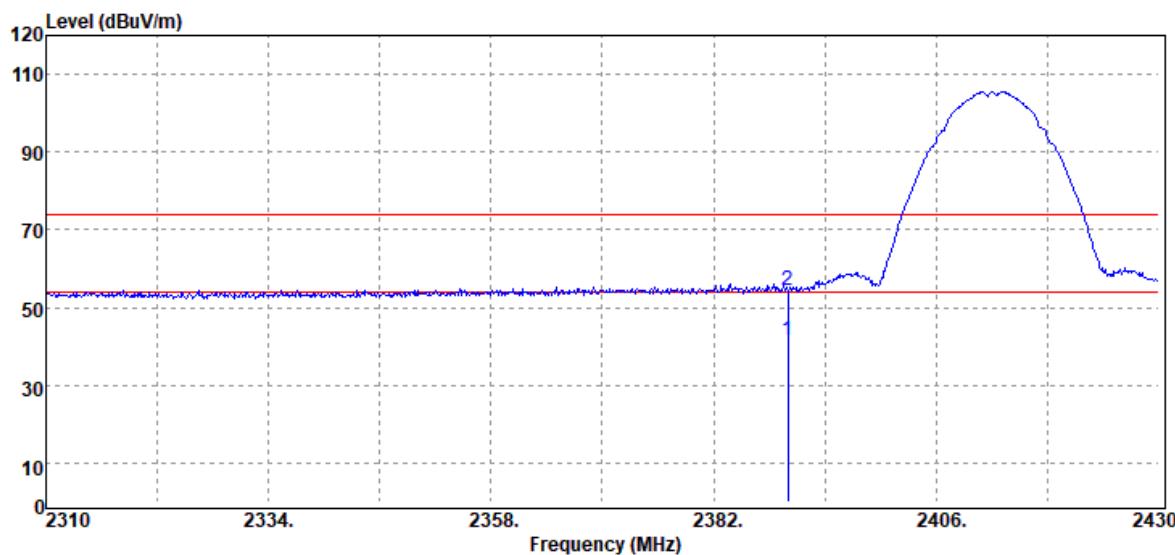
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	43.51	-3.38	40.13	54.00	-13.87
2390.00	Peak	57.36	-3.38	53.98	74.00	-20.02

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11b Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



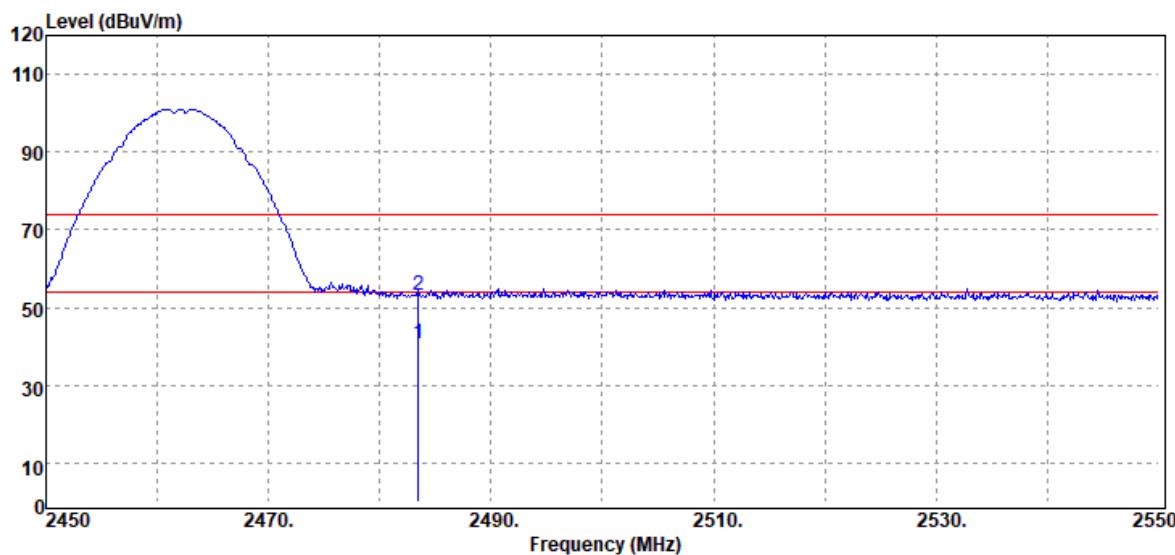
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.89	-3.38	41.51	54.00	-12.49
2390.00	Peak	57.92	-3.38	54.54	74.00	-19.46

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Report Number	:T190521W02	Test Date	:2019-07-24
Operation Band	:802.11b	Temp./Humi.	:21.5/48
Frequency	:2462 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:BE CH High	Engineer	:Kane
EUT Pol.	:E2 Plan		



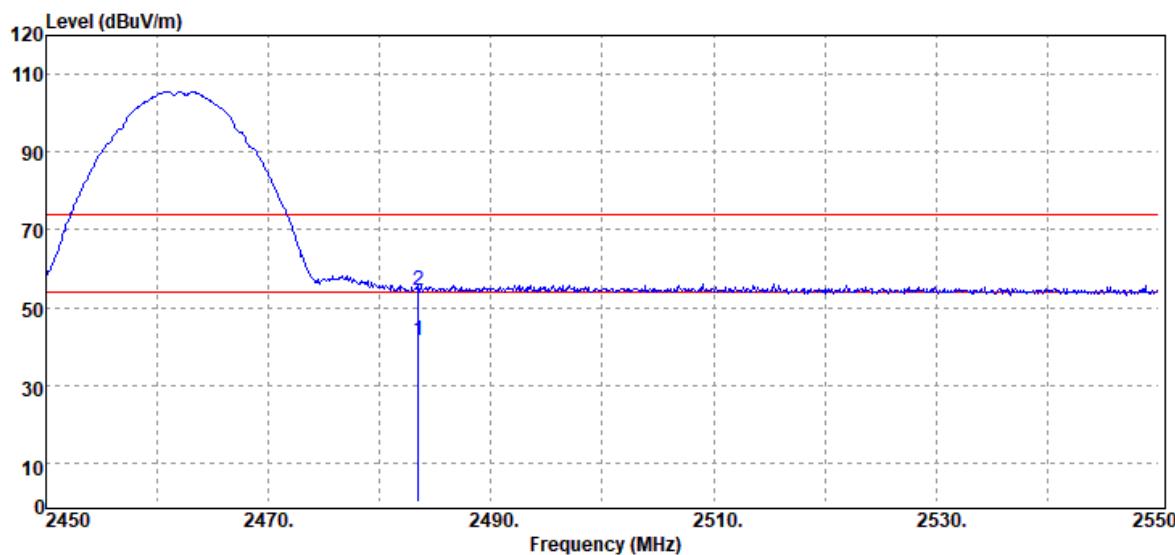
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.57	-2.83	40.74	54.00	-13.26
2483.50	Peak	56.11	-2.83	53.28	74.00	-20.72

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Report Number	:T190521W02	Test Date	:2019-07-24
Operation Band	:802.11b	Temp./Humi.	:21.5/48
Frequency	:2462 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:BE CH High	Engineer	:Kane
EUT Pol.	:E2 Plan		



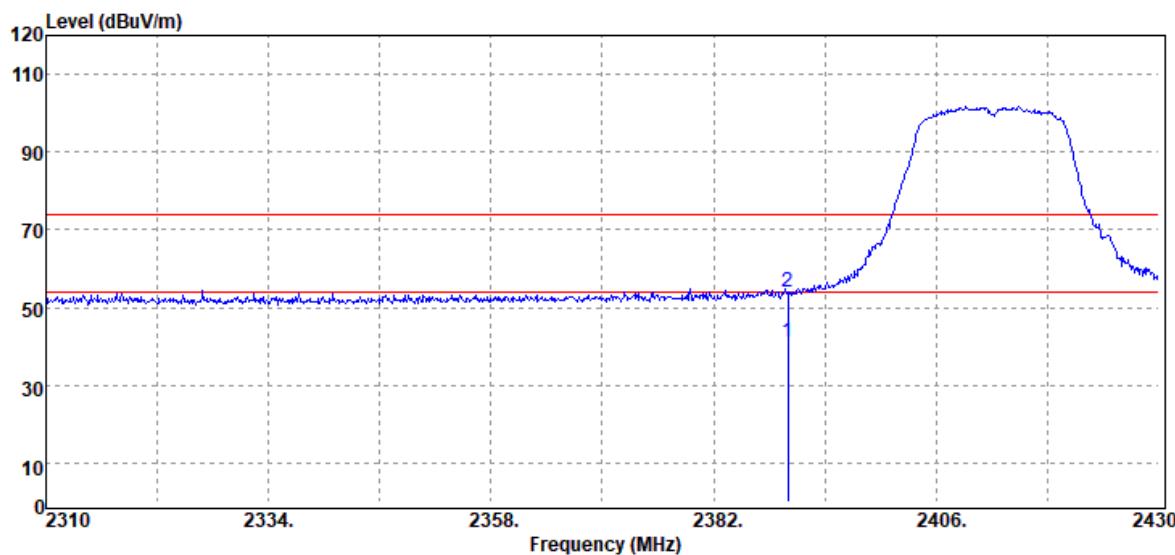
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.37	-2.83	41.54	54.00	-12.46
2483.50	Peak	57.30	-2.83	54.47	74.00	-19.53

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :VERTICAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



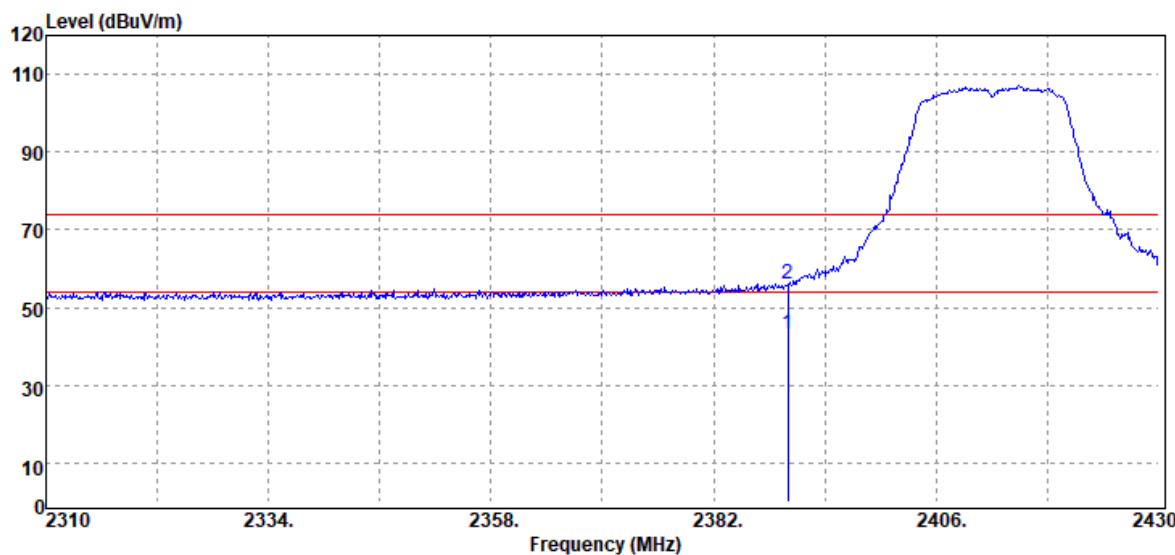
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.34	-3.38	40.96	54.00	-13.04
2390.00	Peak	57.35	-3.38	53.97	74.00	-20.03

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



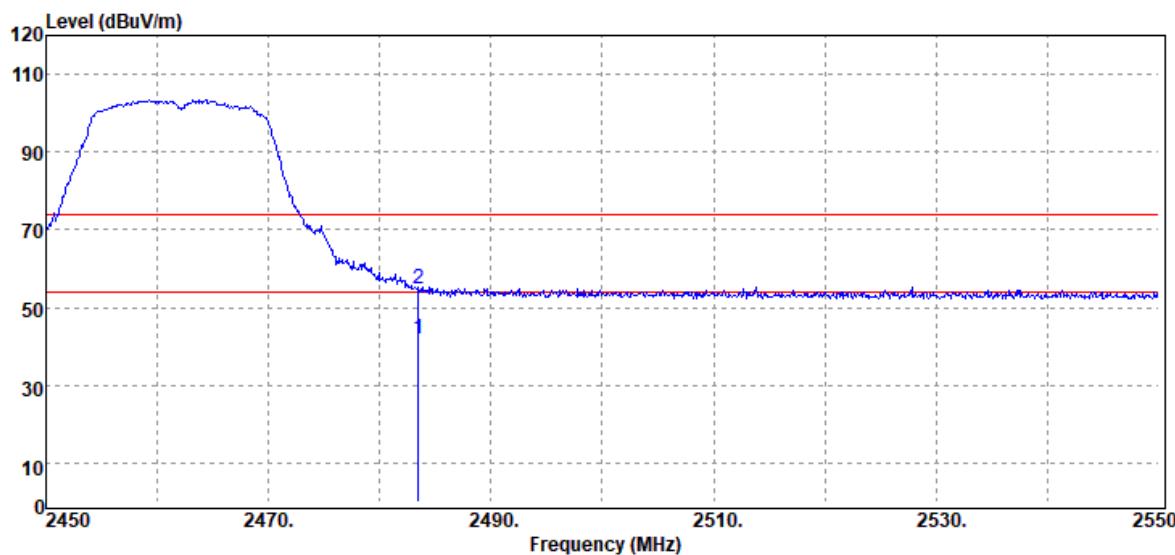
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	46.53	-3.38	43.15	54.00	-10.85
2390.00	Peak	59.63	-3.38	56.25	74.00	-17.75

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :VERTICAL
 Operation Mode :BE CH High Engineer :Kane
 EUT Pol. :E2 Plan



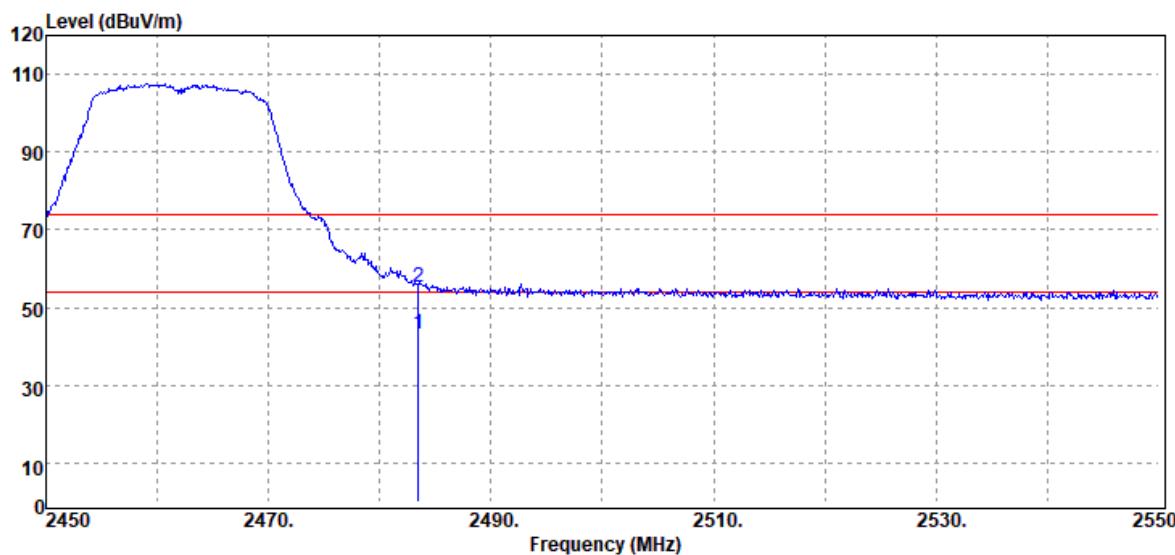
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.89	-2.83	42.06	54.00	-11.94
2483.50	Peak	57.82	-2.83	54.99	74.00	-19.01

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH High Engineer :Kane
 EUT Pol. :E2 Plan



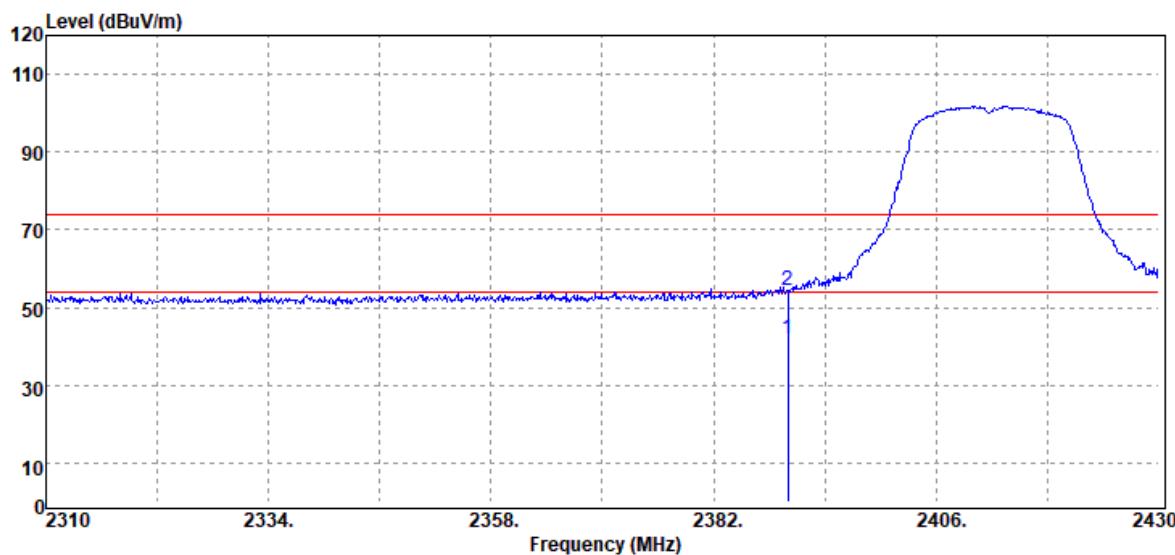
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.99	-2.83	43.16	54.00	-10.84
2483.50	Peak	57.96	-2.83	55.13	74.00	-18.87

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :VERTICAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



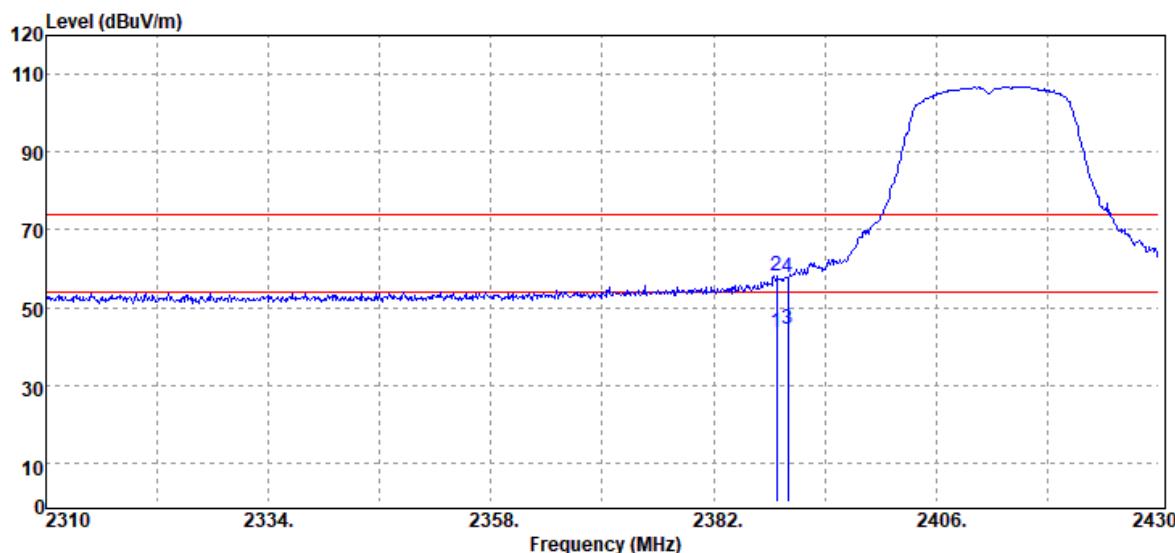
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	45.14	-3.38	41.76	54.00	-12.24
2390.00	Peak	57.81	-3.38	54.43	74.00	-19.57

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



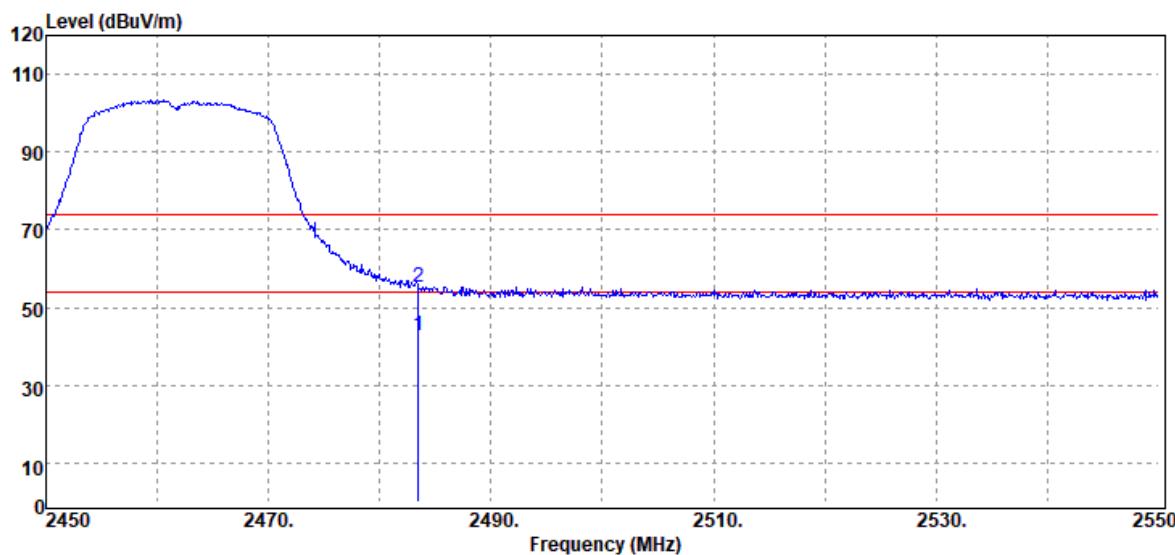
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.84	Average	47.05	-3.39	43.66	54.00	-10.34
2388.84	Peak	61.60	-3.39	58.21	74.00	-15.79
2390.00	Average	47.70	-3.38	44.32	54.00	-9.68
2390.00	Peak	61.00	-3.38	57.62	74.00	-16.38

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :VERTICAL
 Operation Mode :BE CH High Engineer :Kane
 EUT Pol. :E2 Plan



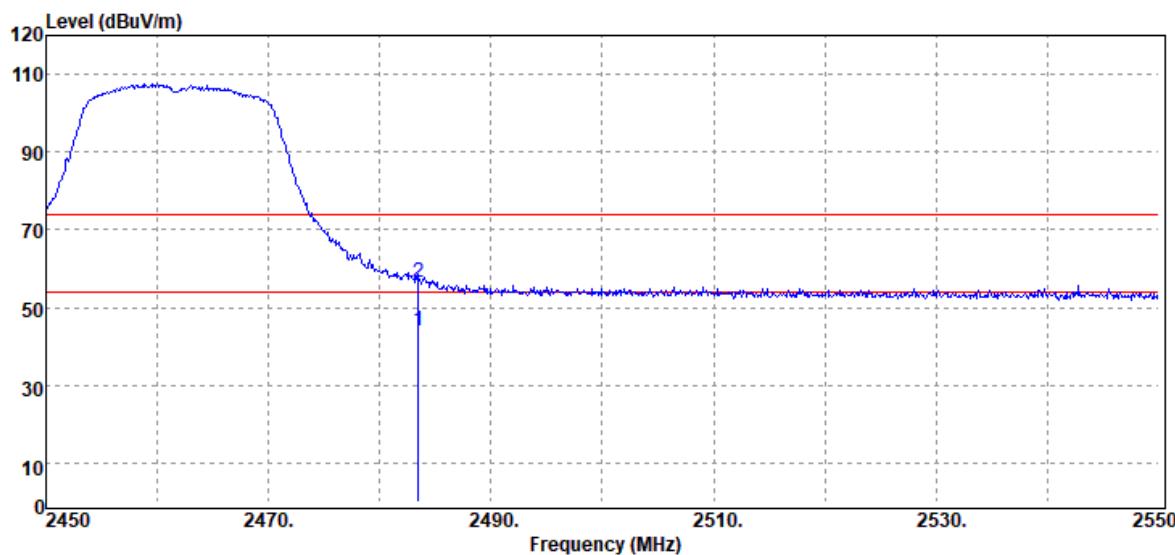
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.41	-2.83	42.58	54.00	-11.42
2483.50	Peak	58.08	-2.83	55.25	74.00	-18.75

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH High Engineer :Kane
 EUT Pol. :E2 Plan



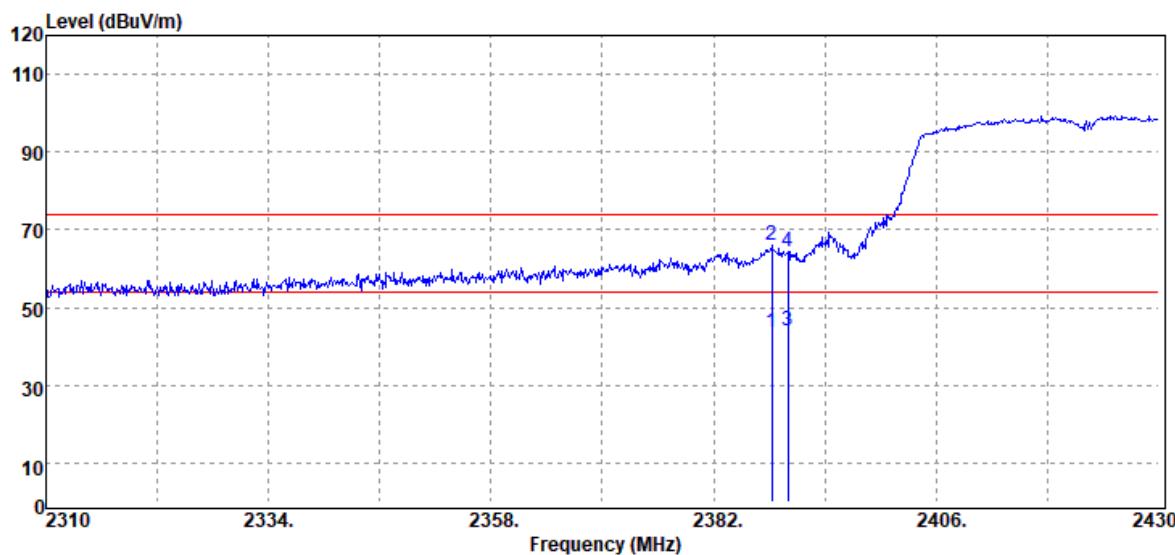
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.86	-2.83	44.03	54.00	-9.97
2483.50	Peak	59.34	-2.83	56.51	74.00	-17.49

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2422 MHz Antenna Pol. :VERTICAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



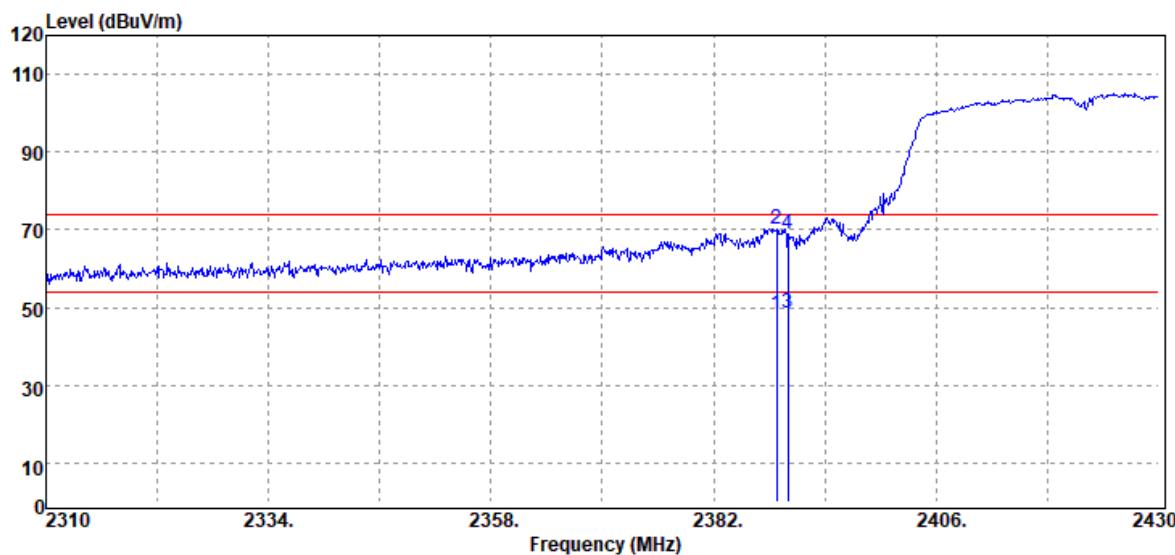
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.24	Average	46.87	-3.39	43.48	54.00	-10.52
2388.24	Peak	69.24	-3.39	65.85	74.00	-8.15
2390.00	Average	47.58	-3.38	44.20	54.00	-9.80
2390.00	Peak	67.71	-3.38	64.33	74.00	-9.67

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2422 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH Low Engineer :Kane
 EUT Pol. :E2 Plan



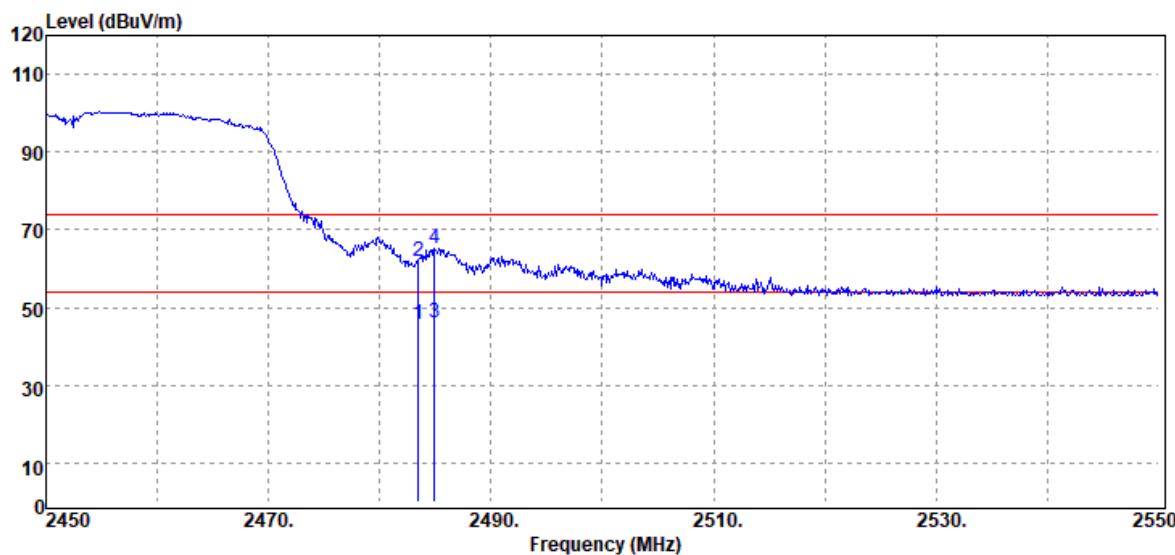
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.84	Average	51.50	-3.39	48.11	54.00	-5.89
2388.84	Peak	73.72	-3.39	70.33	74.00	-3.67
2390.00	Average	51.87	-3.38	48.49	54.00	-5.51
2390.00	Peak	72.49	-3.38	69.11	74.00	-4.89

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2452 MHz Antenna Pol. :VERTICAL
 Operation Mode :BE CH High Engineer :Kane
 EUT Pol. :E2 Plan



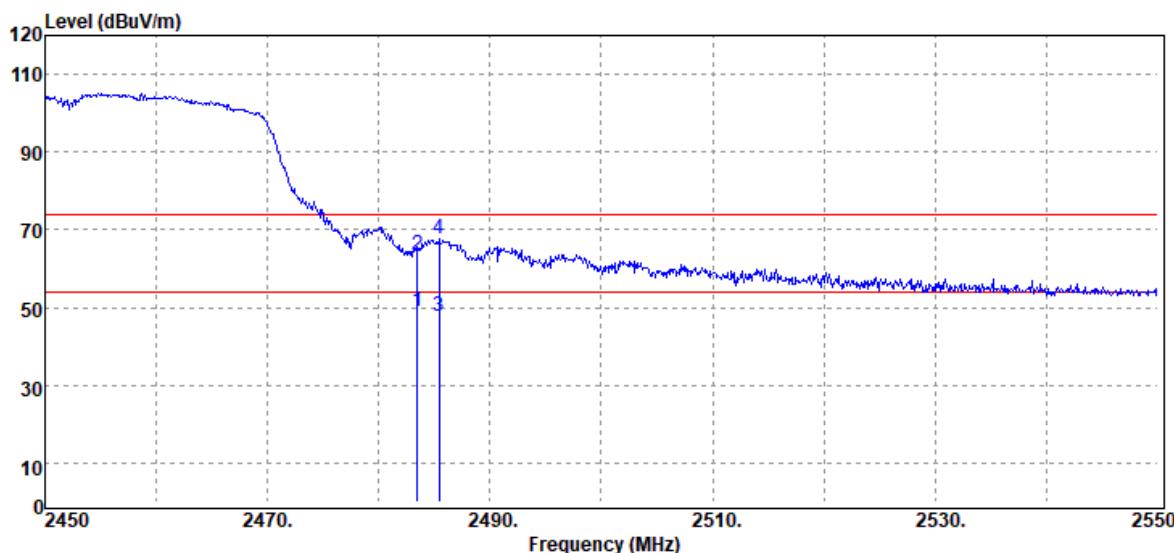
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	48.66	-2.83	45.83	54.00	-8.17
2483.50	Peak	64.83	-2.83	62.00	74.00	-12.00
2484.90	Average	48.88	-2.82	46.06	54.00	-7.94
2484.90	Peak	67.97	-2.82	65.15	74.00	-8.85

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2452 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :BE CH High Engineer :Kane
 EUT Pol. :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	51.82	-2.83	48.99	54.00	-5.01
2483.50	Peak	66.54	-2.83	63.71	74.00	-10.29
2485.40	Average	50.47	-2.82	47.65	54.00	-6.35
2485.40	Peak	70.39	-2.82	67.57	74.00	-6.43

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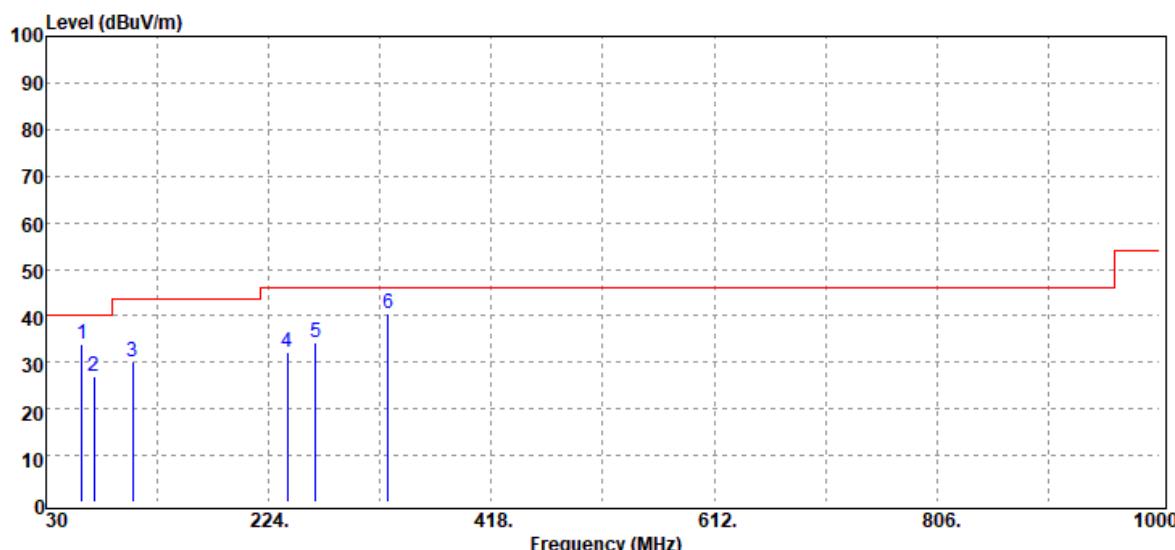
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

Report Number	:T190521W02	Test Date	:2019-07-24
Operation Band	:802.11g	Temp./Humi.	:21.5/48
Frequency	:2437 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol.	:E2 Plan		



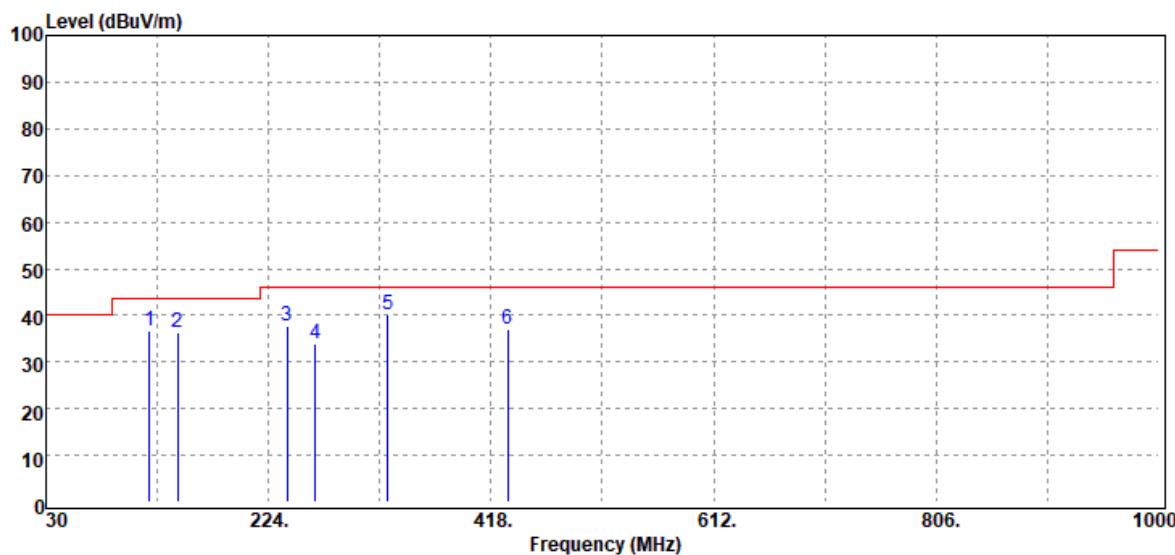
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
61.04	Peak	49.60	-15.64	33.96	40.00	-6.04
71.71	Peak	41.84	-14.74	27.10	40.00	-12.90
105.66	Peak	41.26	-11.02	30.24	43.50	-13.26
240.49	Peak	42.43	-10.25	32.18	46.00	-13.82
264.74	Peak	43.17	-8.95	34.22	46.00	-11.78
327.79	Peak	47.67	-7.25	40.42	46.00	-5.58

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
120.21	Peak	45.56	-8.88	36.68	43.50	-6.82
144.46	Peak	46.19	-9.92	36.27	43.50	-7.23
240.49	Peak	48.11	-10.25	37.86	46.00	-8.14
264.74	Peak	42.93	-8.95	33.98	46.00	-12.02
327.79	Peak	47.23	-7.25	39.98	46.00	-6.02
432.55	Peak	41.18	-4.32	36.86	46.00	-9.14

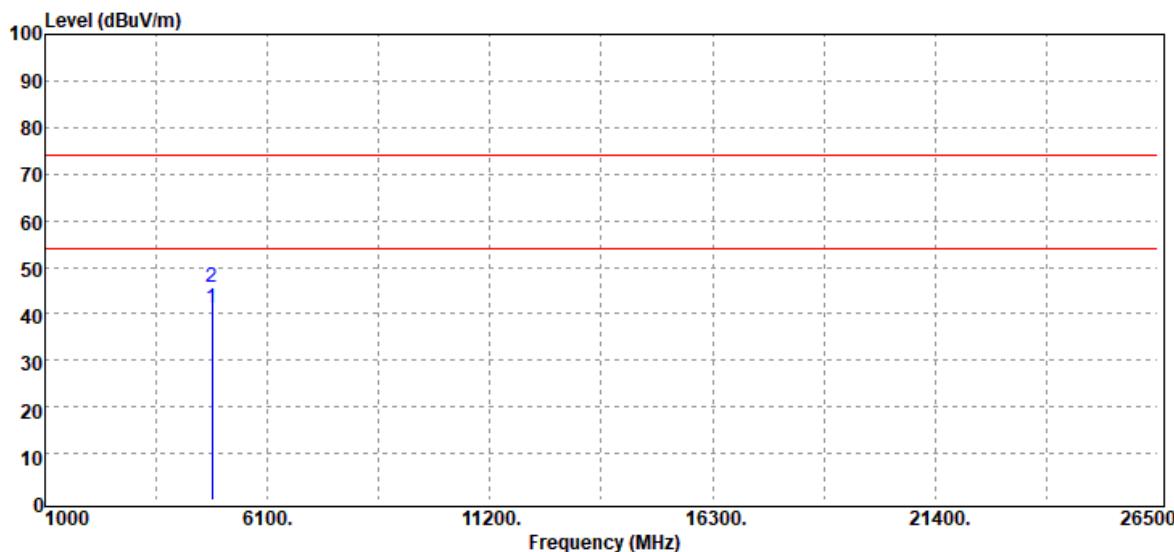
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Above 1GHz Data:

Report Number	:T190521W02	Test Date	:2019-07-24
Operation Band	:802.11b	Temp./.Humi.	:21.5/48
Frequency	:2412 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Tx CH Low	Engineer	:Kane
EUT Pol.	:E2 Plan		



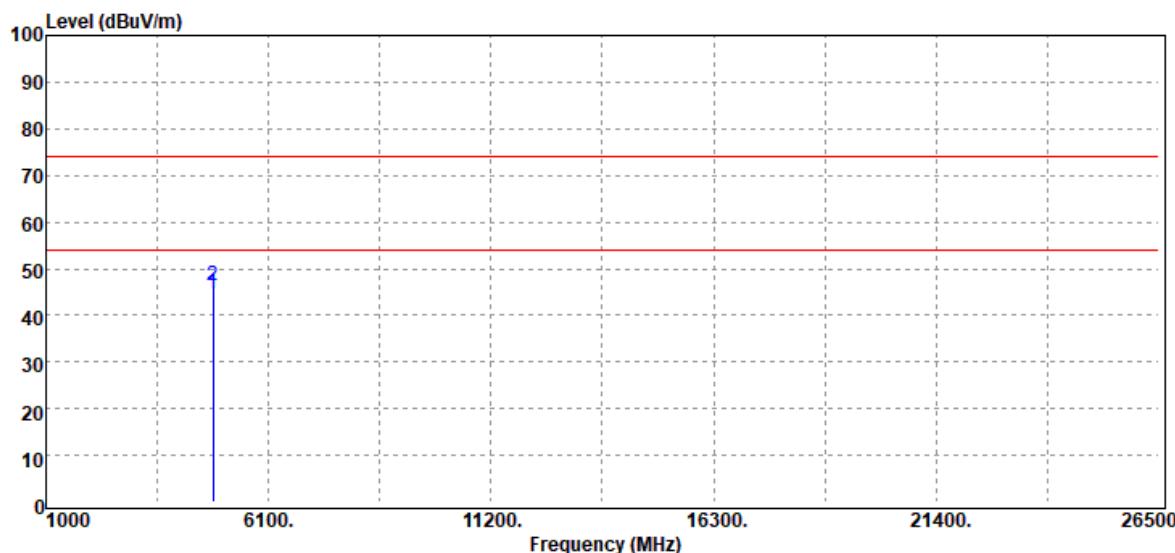
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	38.18	3.05	41.23	54.00	-12.77
4824.00	Peak	42.56	3.05	45.61	74.00	-28.39

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11b Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



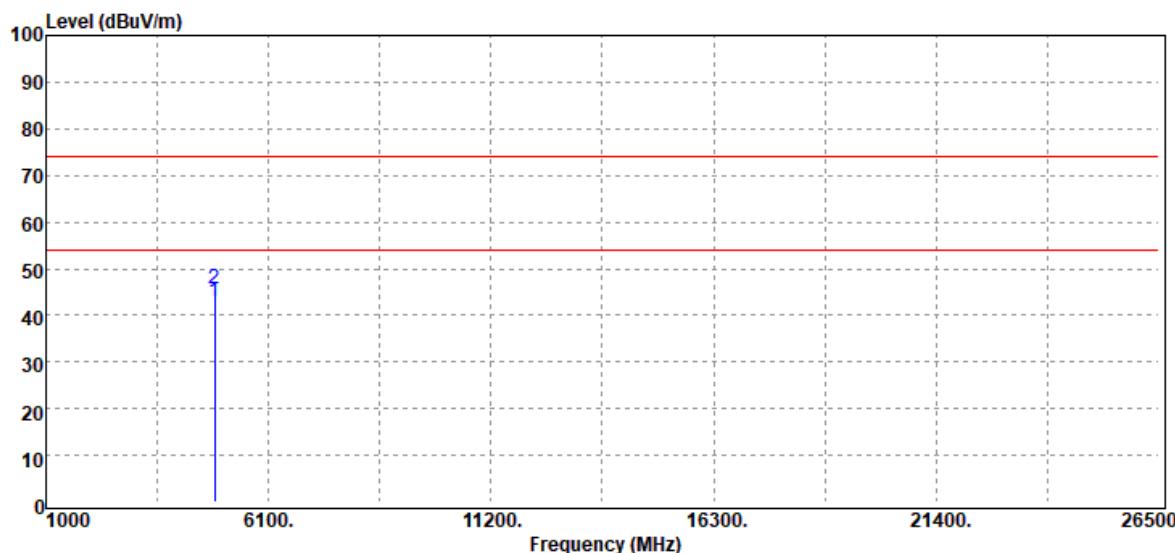
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	41.50	3.05	44.55	54.00	-9.45
4824.00	Peak	43.24	3.05	46.29	74.00	-27.71

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11b Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



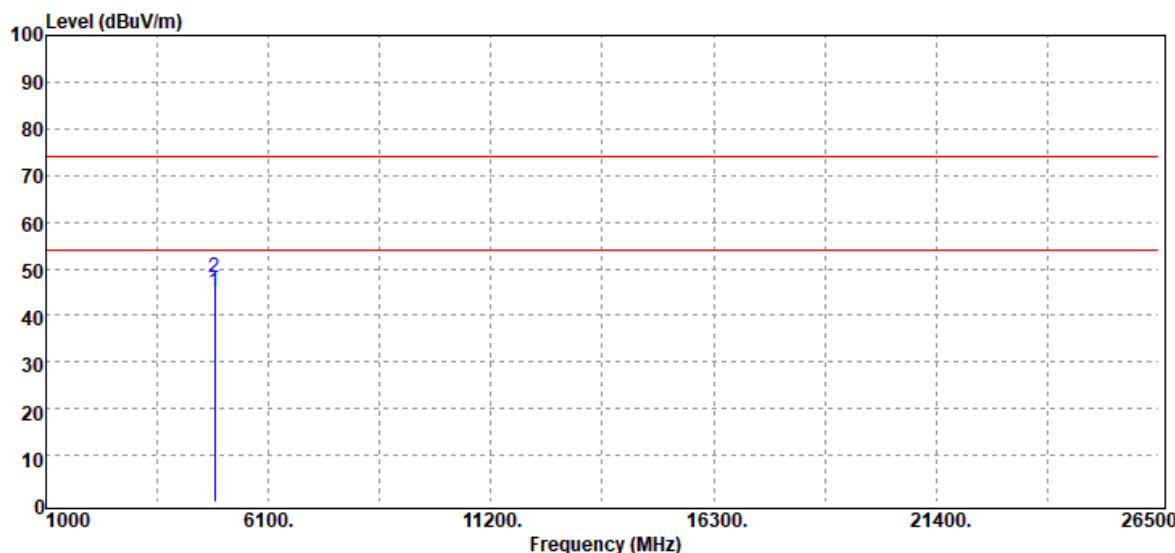
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	39.76	3.31	43.07	54.00	-10.93
4874.00	Peak	42.32	3.31	45.63	74.00	-28.37

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11b Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



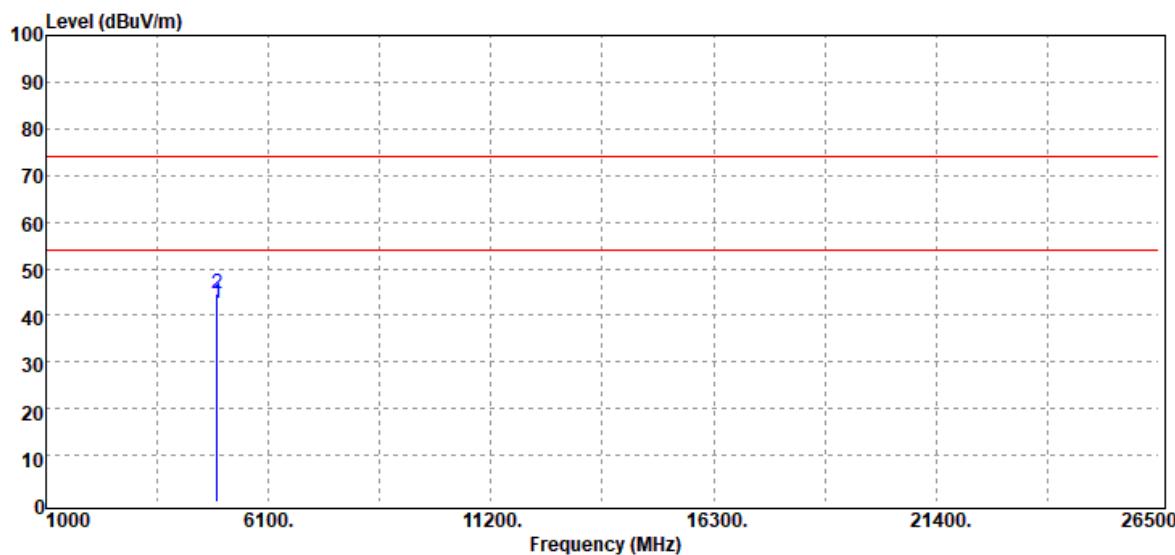
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	41.67	3.31	44.98	54.00	-9.02
4874.00	Peak	44.88	3.31	48.19	74.00	-25.81

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11b Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



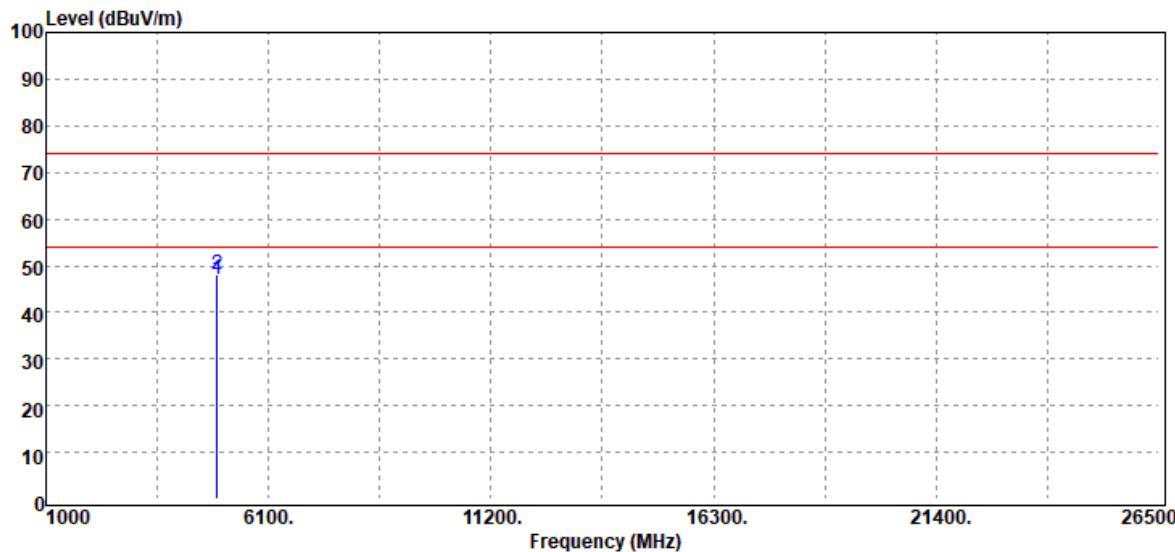
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	38.81	3.75	42.56	54.00	-11.44
4924.00	Peak	40.93	3.75	44.68	74.00	-29.32

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11b Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



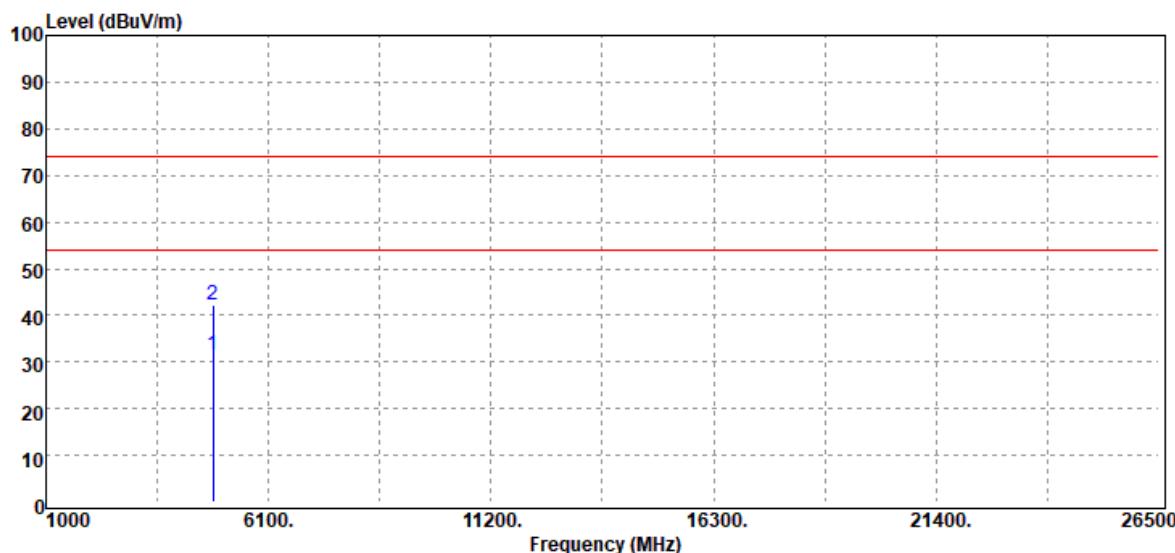
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	43.48	3.75	47.23	54.00	-6.77
4924.00	Peak	44.36	3.75	48.11	74.00	-25.89

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



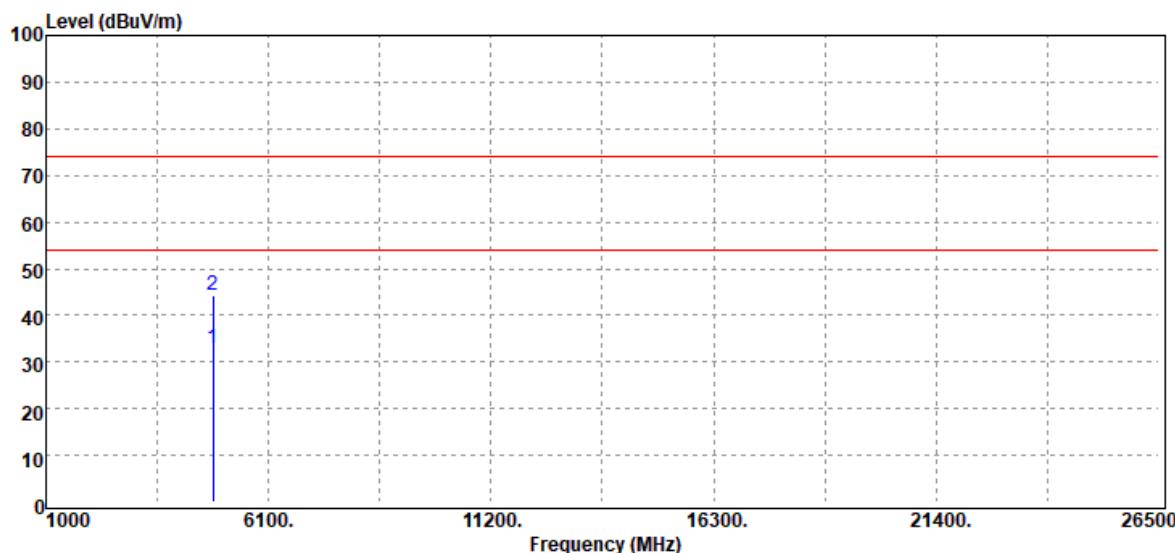
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	28.32	3.05	31.37	54.00	-22.63
4824.00	Peak	39.19	3.05	42.24	74.00	-31.76

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



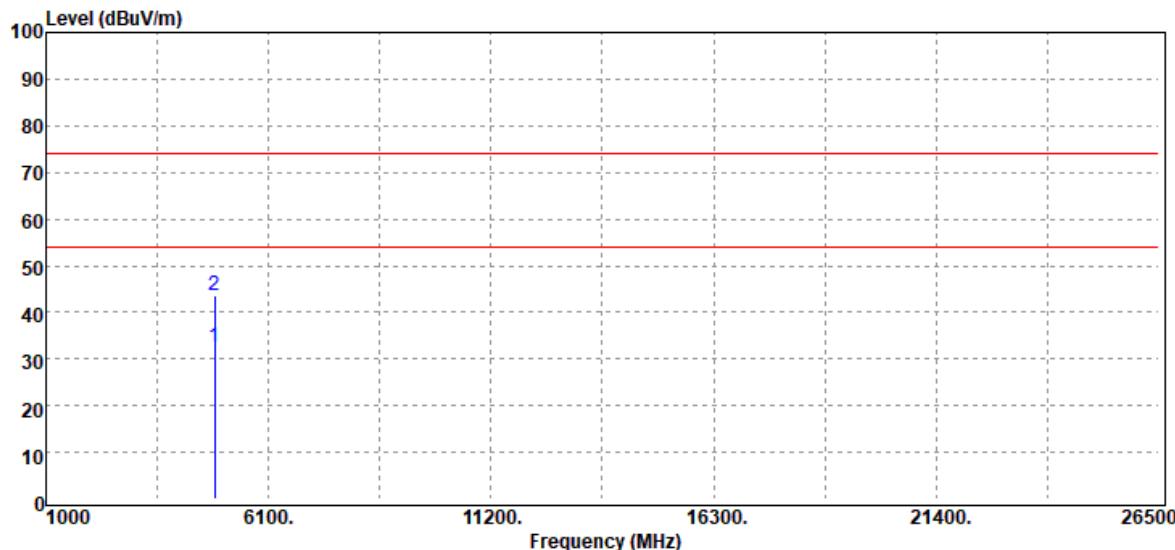
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	29.75	3.05	32.80	54.00	-21.20
4824.00	Peak	41.37	3.05	44.42	74.00	-29.58

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



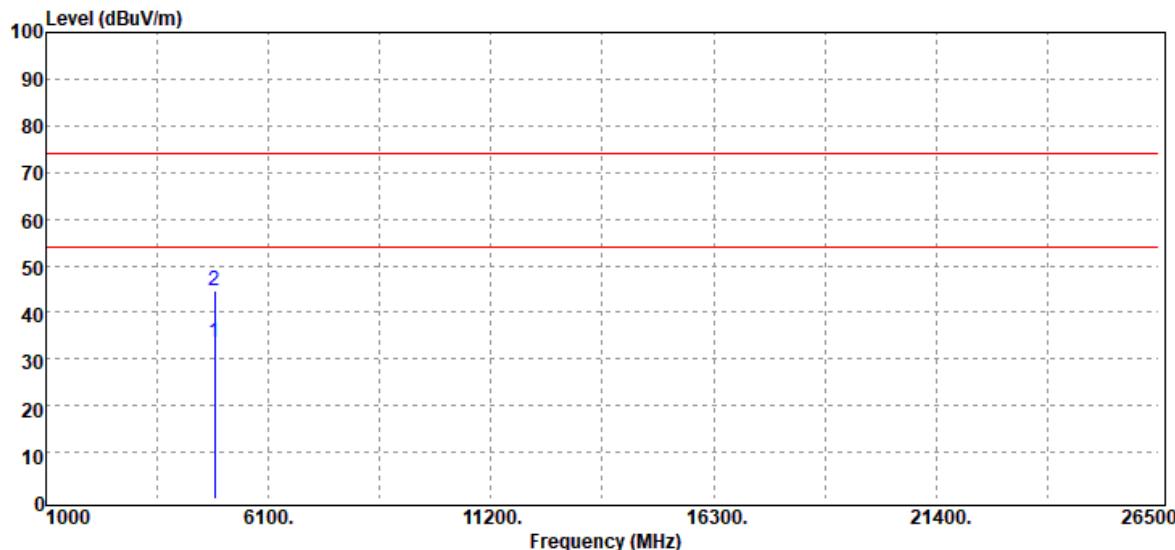
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	29.37	3.31	32.68	54.00	-21.32
4874.00	Peak	40.37	3.31	43.68	74.00	-30.32

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



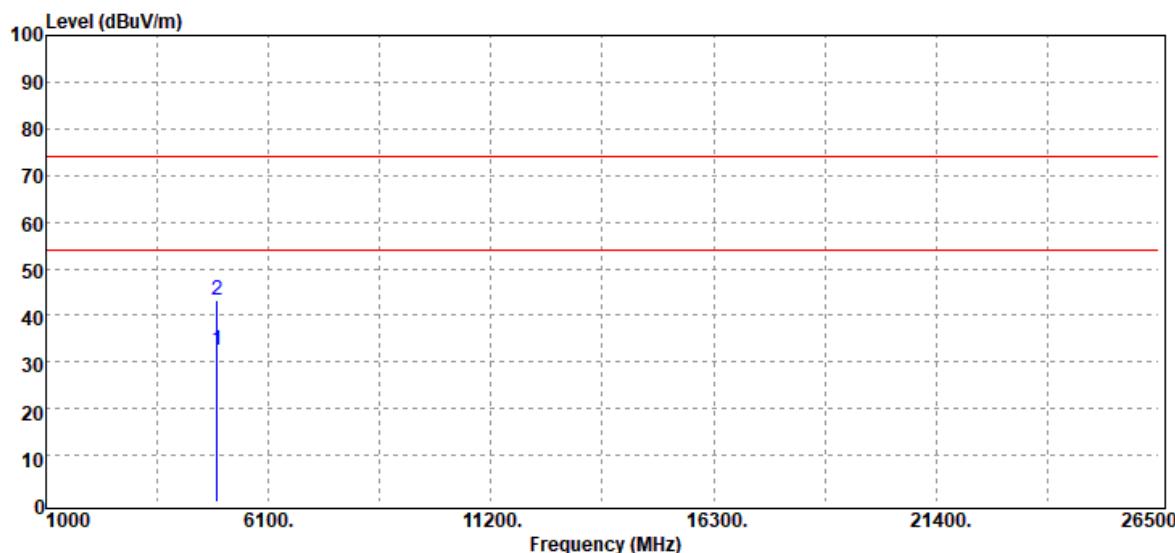
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	30.38	3.31	33.69	54.00	-20.31
4874.00	Peak	41.22	3.31	44.53	74.00	-29.47

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



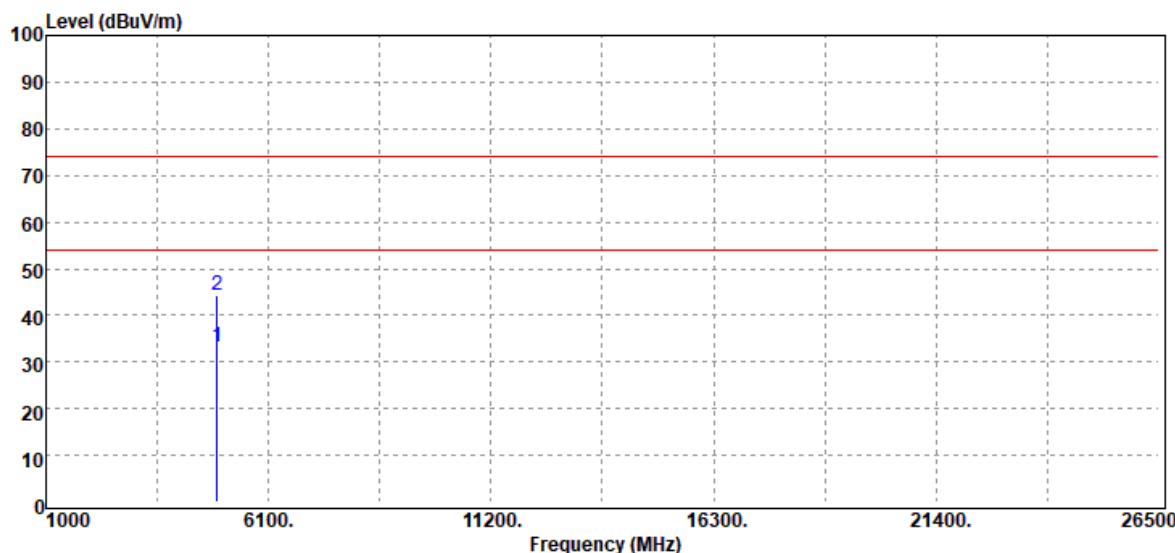
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	28.93	3.75	32.68	54.00	-21.32
4924.00	Peak	39.38	3.75	43.13	74.00	-30.87

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11g Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



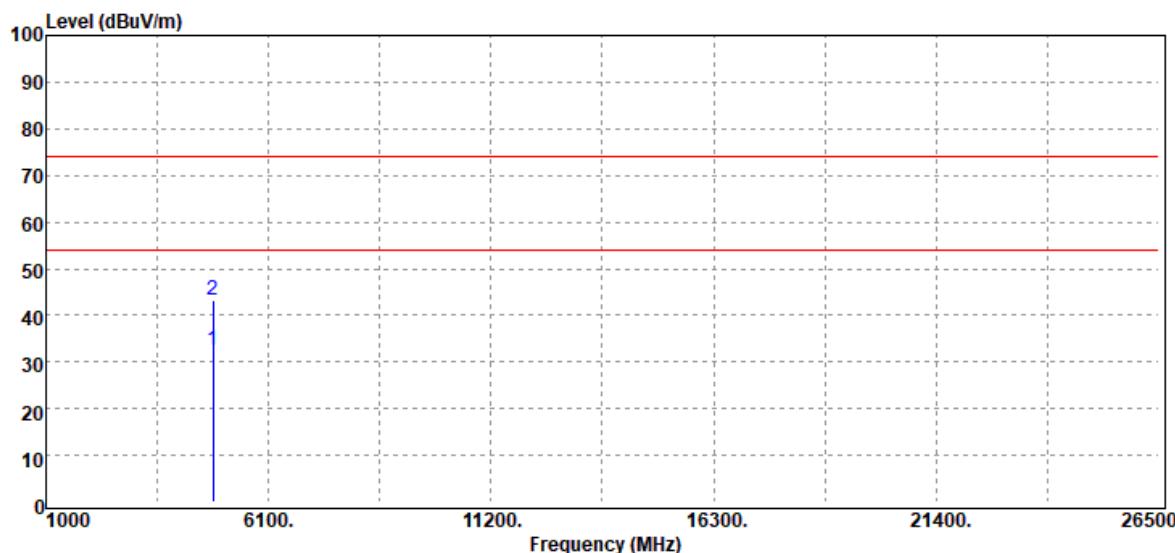
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	29.46	3.75	33.21	54.00	-20.79
4924.00	Peak	40.38	3.75	44.13	74.00	-29.87

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



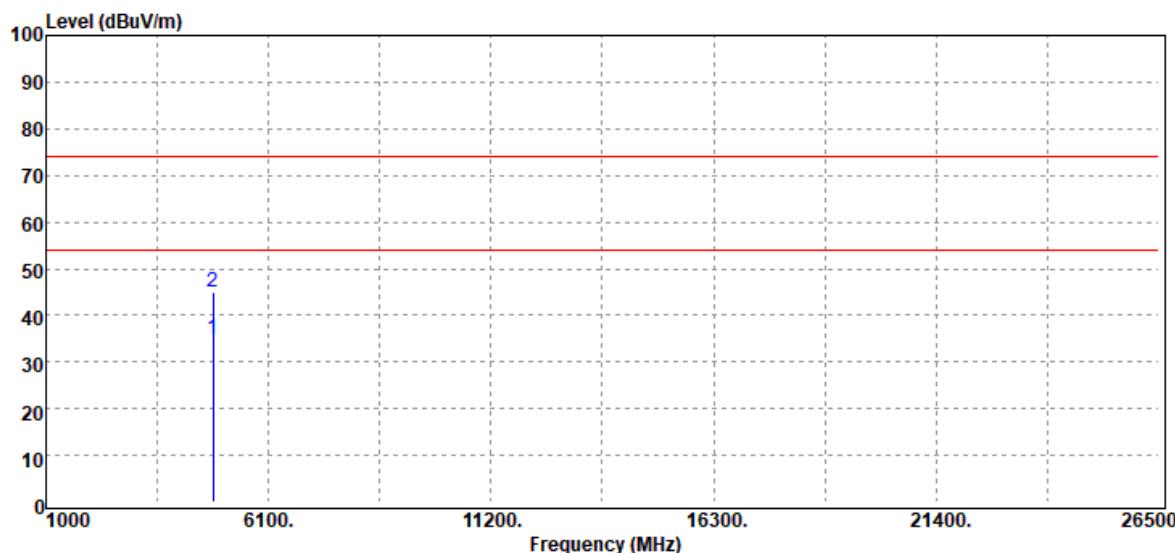
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	29.38	3.05	32.43	54.00	-21.57
4824.00	Peak	40.22	3.05	43.27	74.00	-30.73

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2412 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



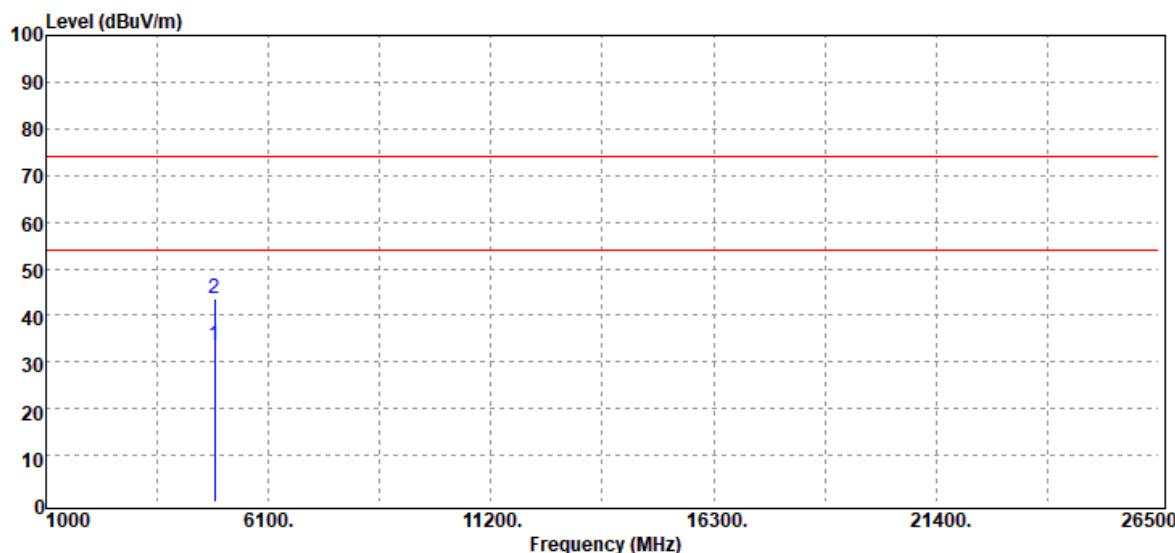
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	31.82	3.05	34.87	54.00	-19.13
4824.00	Peak	41.94	3.05	44.99	74.00	-29.01

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



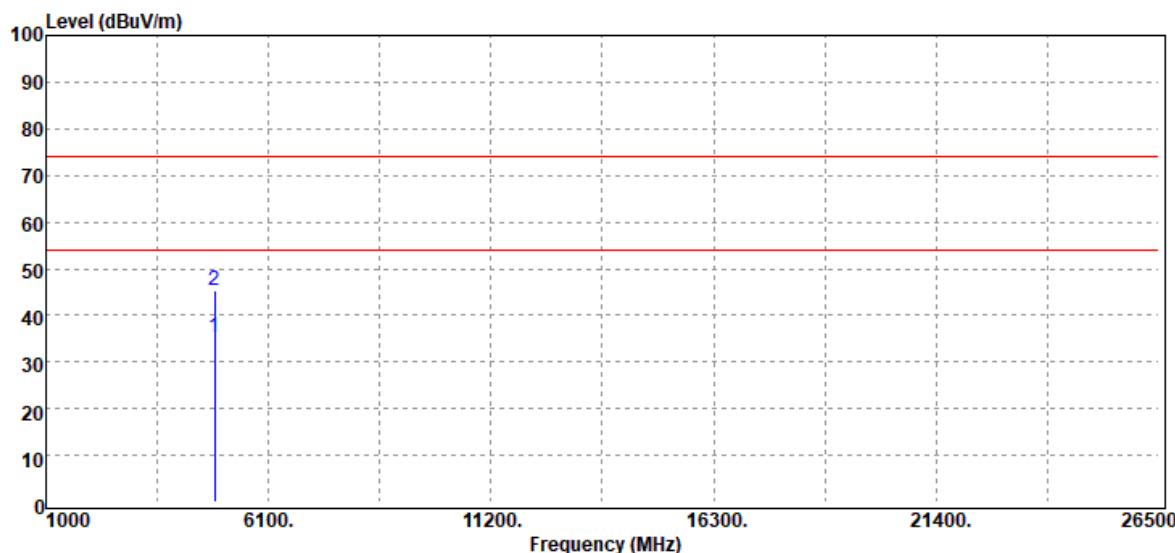
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	30.22	3.31	33.53	54.00	-20.47
4874.00	Peak	40.39	3.31	43.70	74.00	-30.30

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



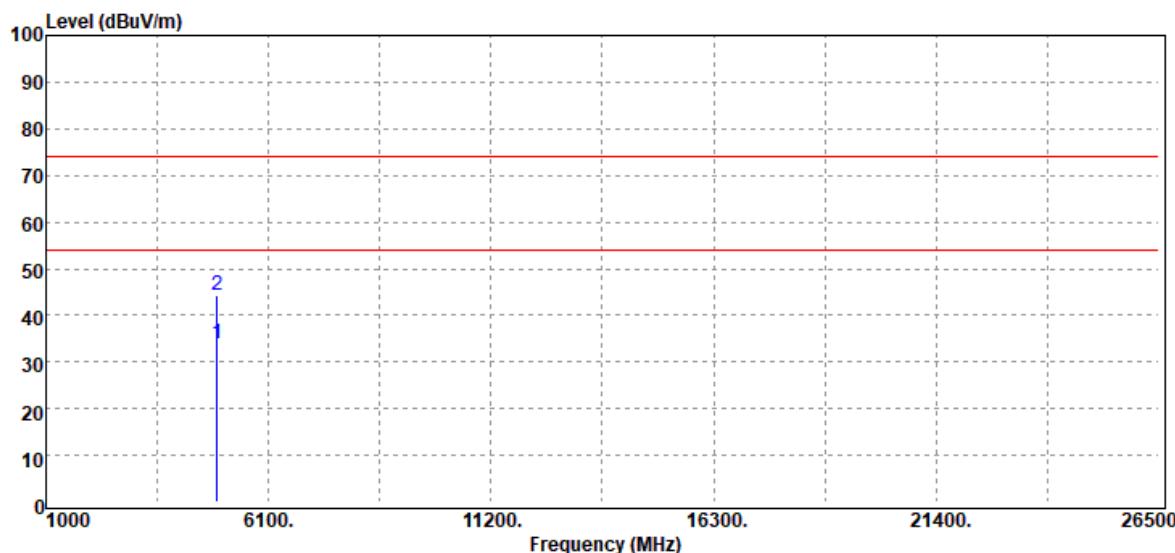
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	31.94	3.31	35.25	54.00	-18.75
4874.00	Peak	42.02	3.31	45.33	74.00	-28.67

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



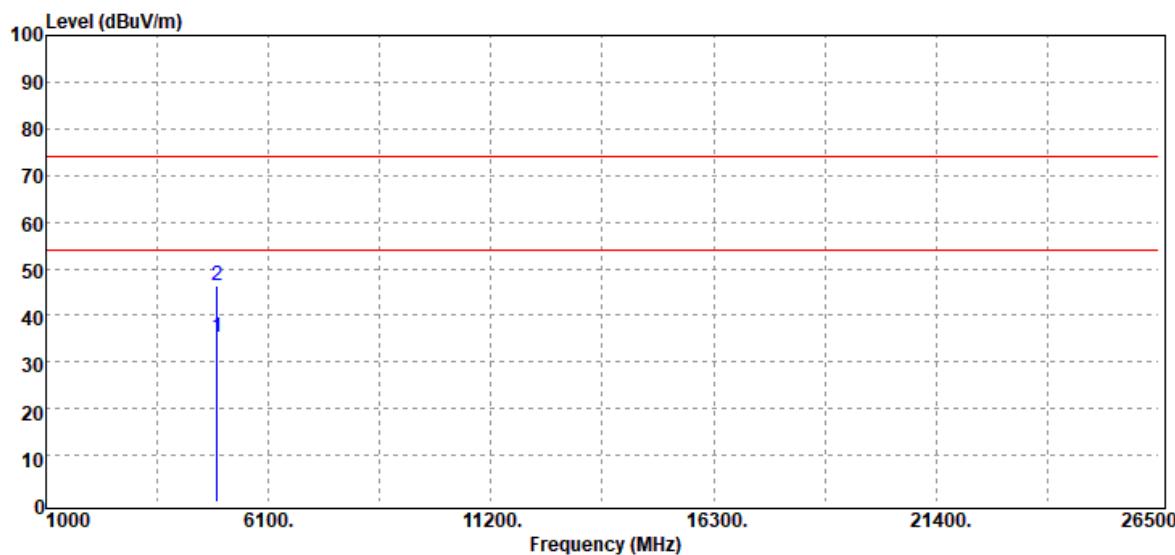
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	30.16	3.75	33.91	54.00	-20.09
4924.00	Peak	40.58	3.75	44.33	74.00	-29.67

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n20 Temp./Humi. :21.5/48
 Frequency :2462 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



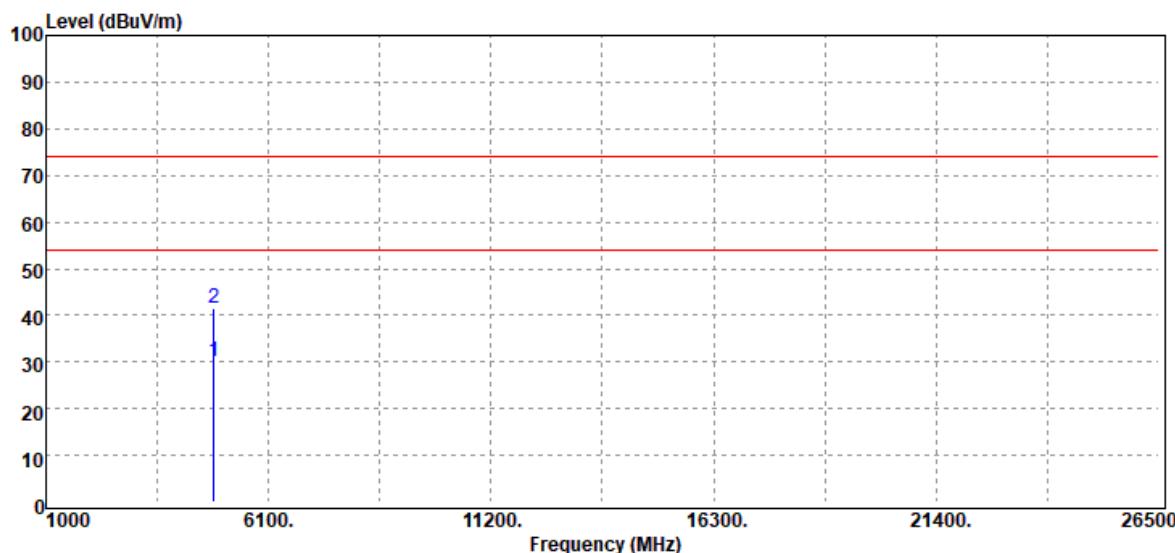
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	31.57	3.75	35.32	54.00	-18.68
4924.00	Peak	42.77	3.75	46.52	74.00	-27.48

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2422 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



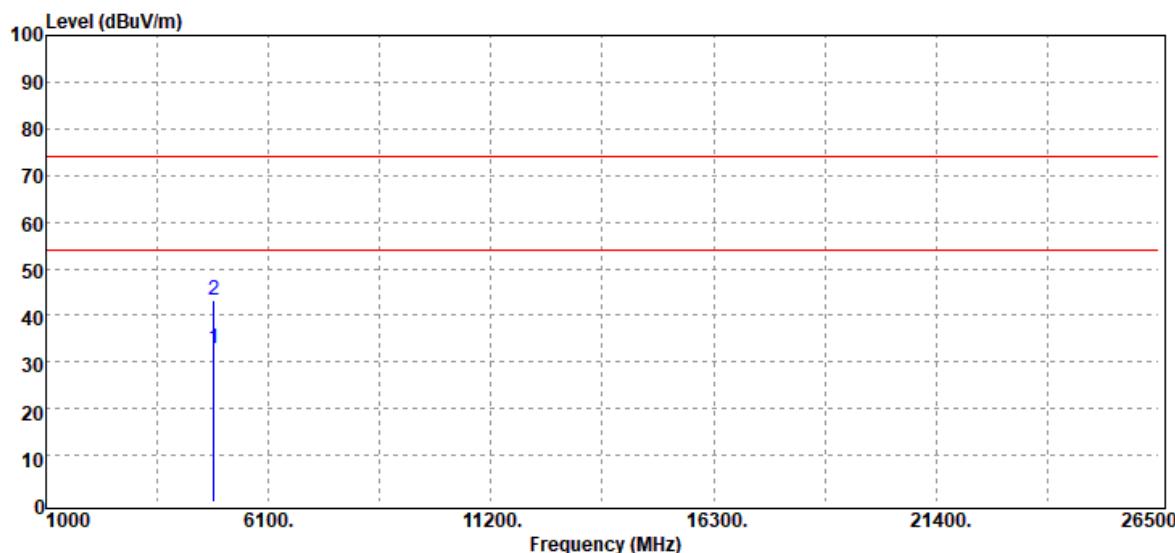
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.94	3.09	30.03	54.00	-23.97
4844.00	Peak	38.48	3.09	41.57	74.00	-32.43

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2422 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Low Engineer :Kane
 EUT Pol. :E2 Plan



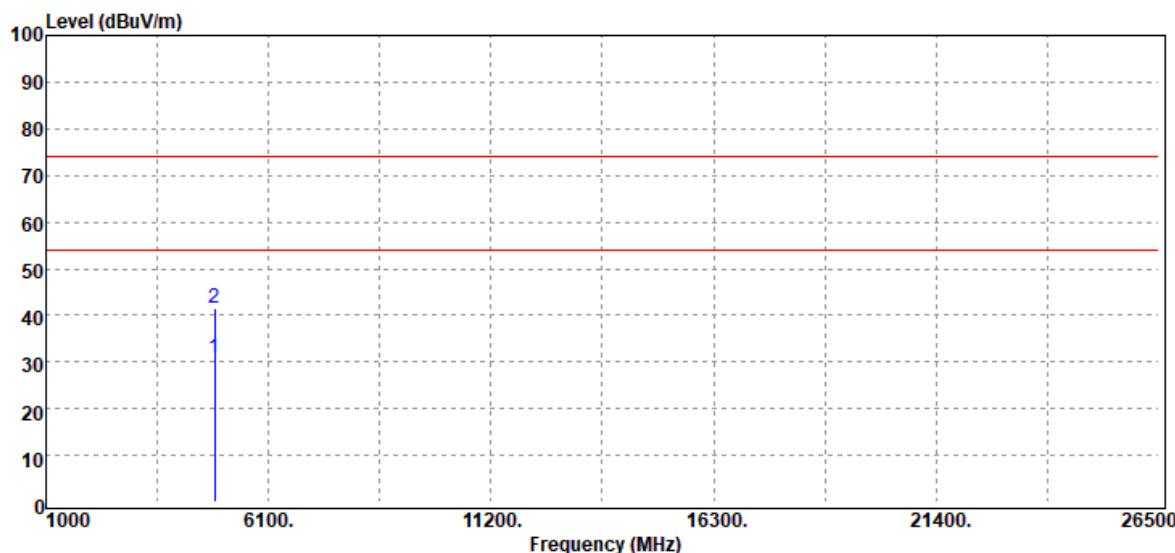
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	29.87	3.09	32.96	54.00	-21.04
4844.00	Peak	40.00	3.09	43.09	74.00	-30.91

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



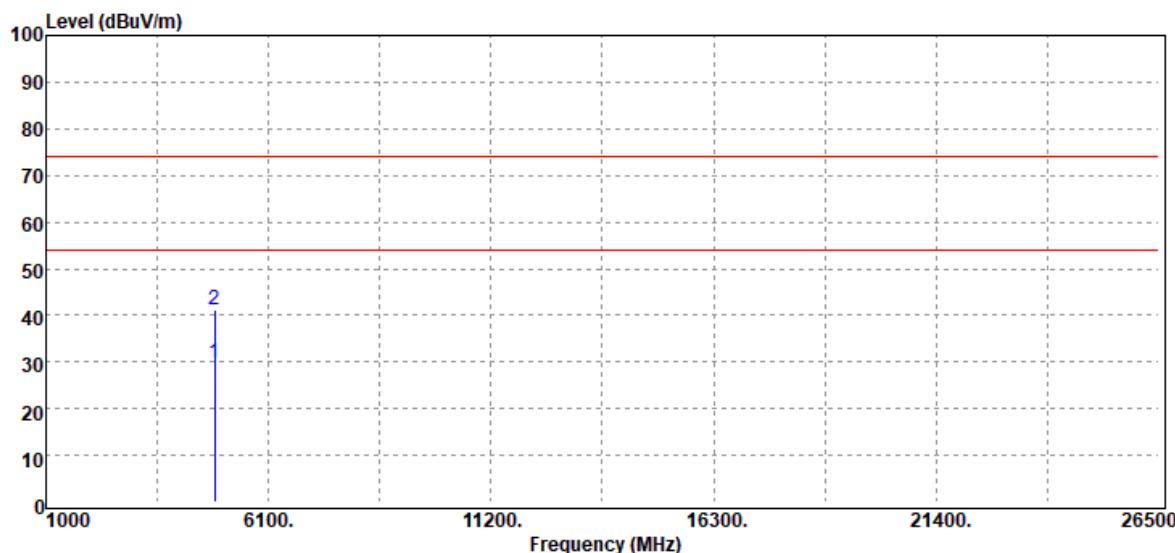
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.34	3.31	30.65	54.00	-23.35
4874.00	Peak	38.10	3.31	41.41	74.00	-32.59

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2437 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH Mid Engineer :Kane
 EUT Pol. :E2 Plan



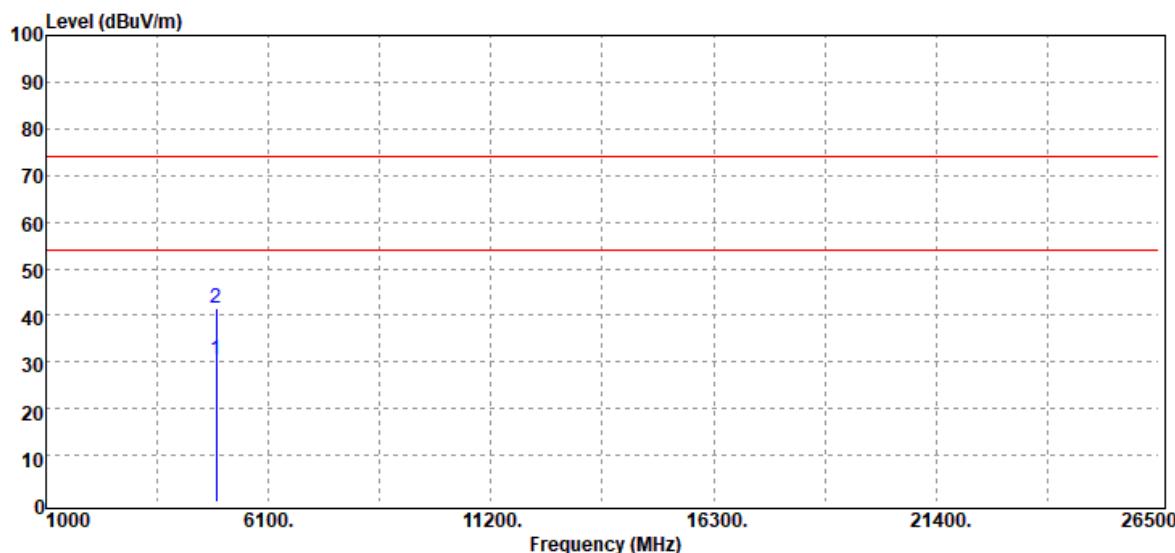
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.50	3.31	29.81	54.00	-24.19
4874.00	Peak	37.77	3.31	41.08	74.00	-32.92

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2452 MHz Antenna Pol. :VERTICAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



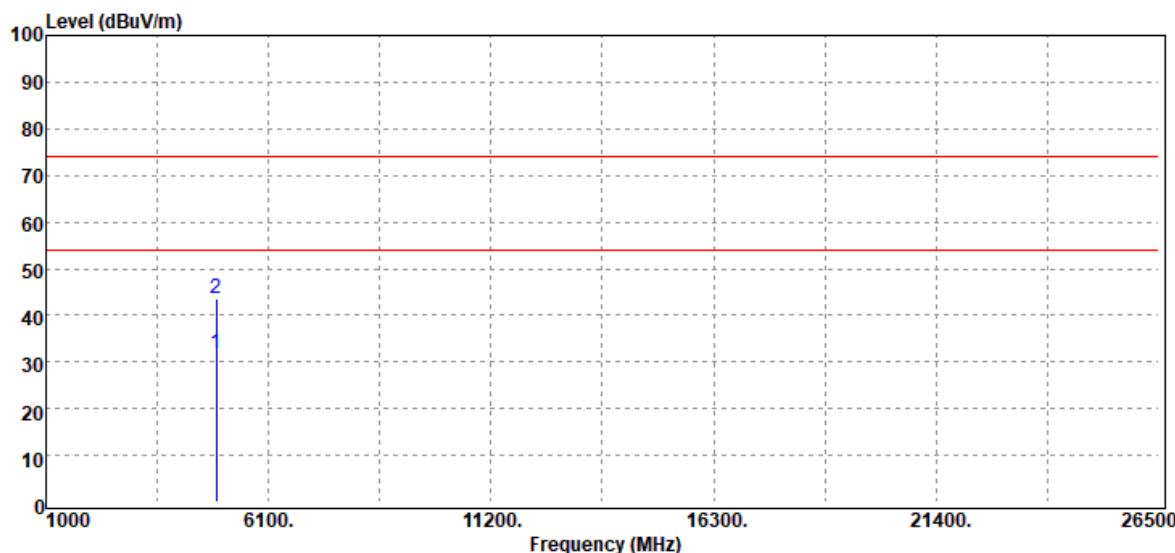
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.82	3.56	30.38	54.00	-23.62
4904.00	Peak	37.95	3.56	41.51	74.00	-32.49

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Report Number :T190521W02 Test Date :2019-07-24
 Operation Band :802.11n40 Temp./Humi. :21.5/48
 Frequency :2452 MHz Antenna Pol. :HORIZONTAL
 Operation Mode :Tx CH High Engineer :Kane
 EUT Pol. :E2 Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	28.28	3.56	31.84	54.00	-22.16
4904.00	Peak	39.89	3.56	43.45	74.00	-30.55

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12 POWER SPECTRAL DENSITY

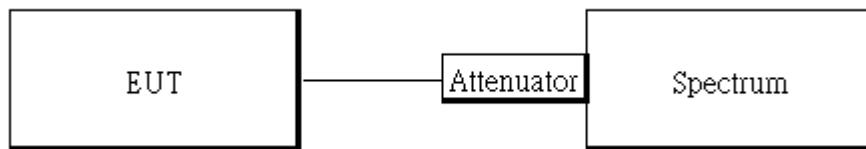
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b_Ch1				POWER DENSITY 802.11g_Ch1			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.41	8.00	PASS	2412	-9.30	8.00	PASS
2437	-5.86	8.00	PASS	2437	-9.38	8.00	PASS
2462	-5.98	8.00	PASS	2462	-8.22	8.00	PASS
POWER DENSITY 802.11n HT20_Ch1				POWER DENSITY 802.11n HT40_Ch1			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-10.60	8.00	PASS	2422	-13.79	8.00	PASS
2437	-9.96	8.00	PASS	2437	-11.54	8.00	PASS
2462	-10.05	8.00	PASS	2452	-15.85	8.00	PASS

*Refer to next page for plots

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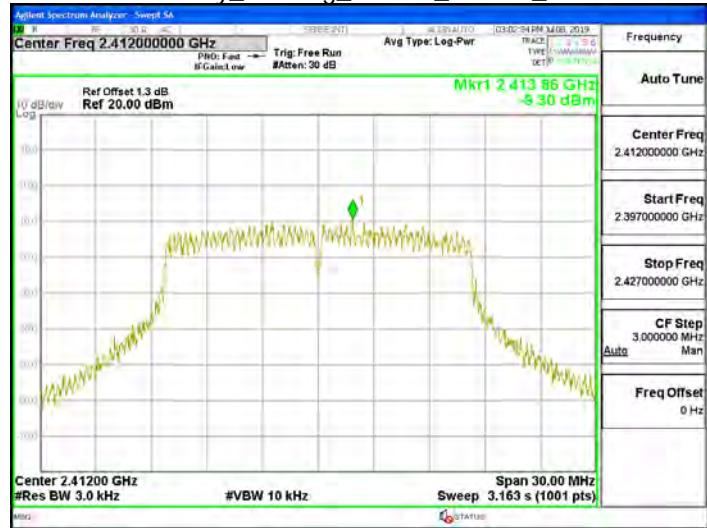
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Power Density_802.11b_20MHz_Chain1_2412MHz



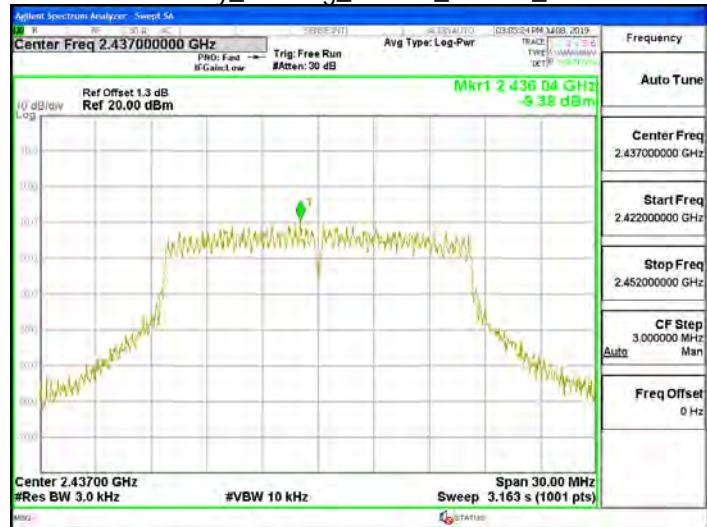
Power Density_802.11g_20MHz_Chain1_2412MHz



Power Density_802.11b_20MHz_Chain1_2437MHz



Power Density_802.11g_20MHz_Chain1_2437MHz



Power Density_802.11b_20MHz_Chain1_2462MHz



Power Density_802.11g_20MHz_Chain1_2462MHz



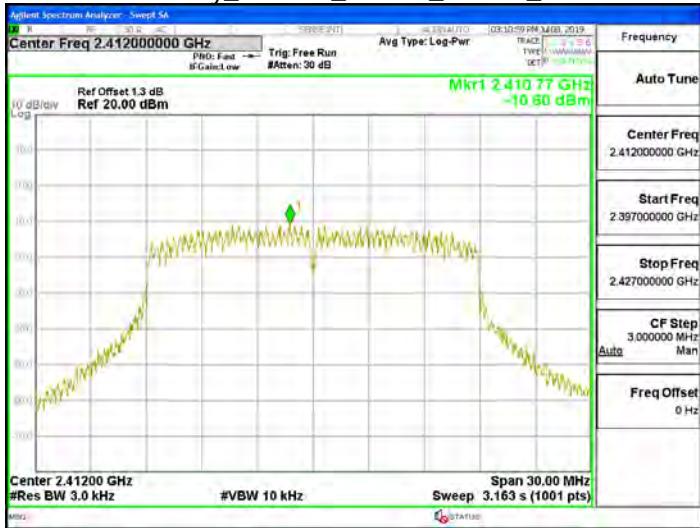
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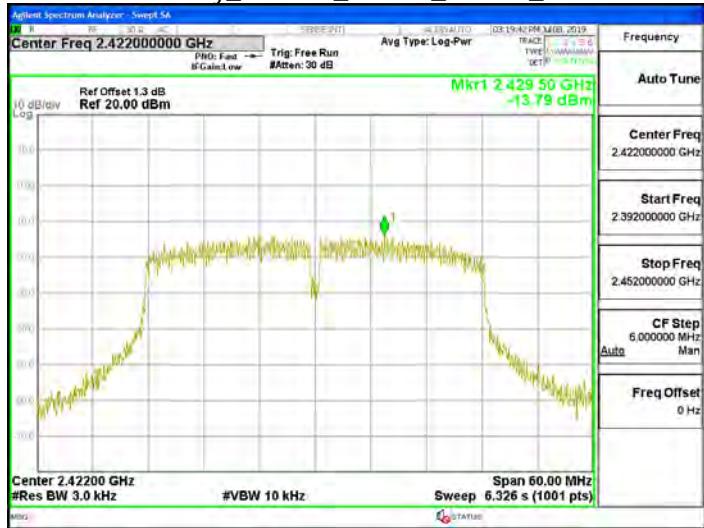
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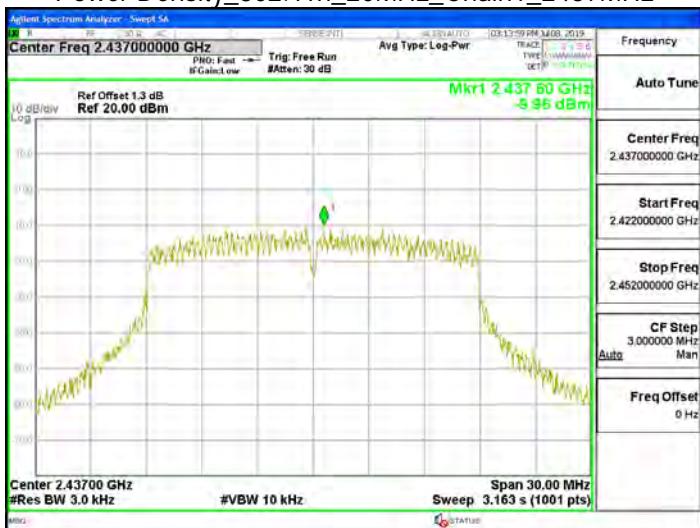
Power Density_802.11n_20MHz_Chain1_2412MHz



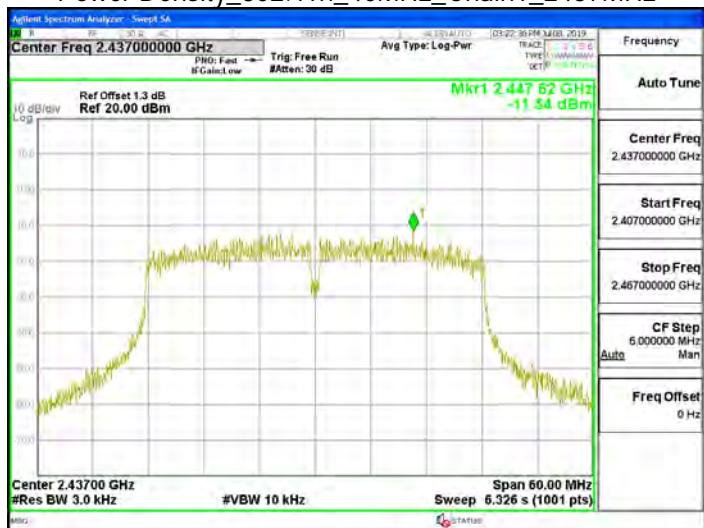
Power Density_802.11n_40MHz_Chain1_2422MHz



Power Density_802.11n_20MHz_Chain1_2437MHz



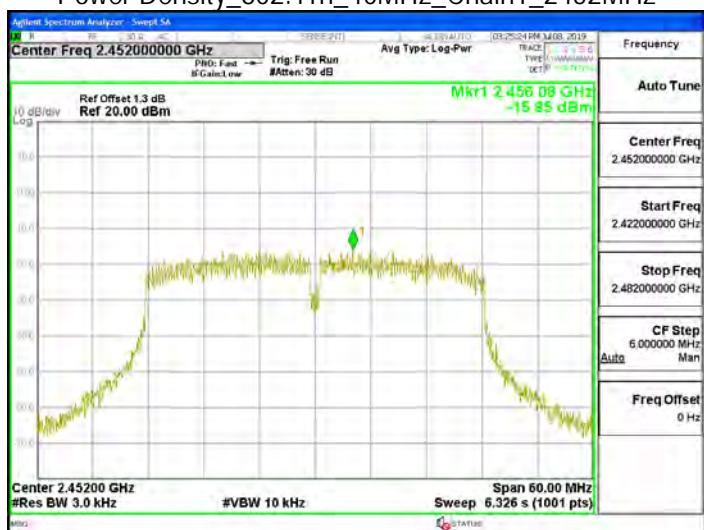
Power Density_802.11n_40MHz_Chain1_2437MHz



Power Density_802.11n_20MHz_Chain1_2462MHz



Power Density_802.11n_40MHz_Chain1_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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