



CERTIFICATION TEST REPORT

Report Number. : 4789300832-E1V3

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

Model : SM-T723

FCC ID : A3LSMT723
IC : 649E-SMT723

EUT Description : Digital Attractor

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-247 ISSUE 2

Date Of Issue:

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ACCREDITED

Testing Laboratory

TL-637

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	01/09/20	Initial issue	Sungeun Lee
V2	01/14/20	Updated to address TCB's question	Sungeun Lee
V3	01/15/20	Updated to address TCB's question	Sungeun Lee

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: Digital Attractor

MODEL NUMBER: SM-T723

SERIAL NUMBER: R32MC007SPL (CONDUCTED)
R32MC007SEW (RADIATED);

DATE TESTED: DEC 26, 2019 – JAN 09, 2020;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-247 Issue 2	Pass
INDUSTRY CANADA RSS-GEN Issue 5	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:

Tested By:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.



Sungeun 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 5
4. IC RSS-247 Issue 2
5. KDB 558074 D01 DTS Meas Guidance v05r02.
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
☐	Chamber 3

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/wp-content/uploads/2017/05/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:

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

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	2.35 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.49 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.82 dB
Radiated Disturbance, 18 GHz to 40 GHz	5.49 dB

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

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 1, Clause 4.4.2 in IEC Guide 115:2007.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is the Digital Attractor.
This test report addresses the DTS (WLAN) operational mode.

WiFi operating mode

Frequency rage	Mode	ANT 1
2.4GHz (2412 MHz ~ 2472 MHz)	802.11b SISO	TX/RX
	802.11g SISO	TX/RX
	802.11n(HT20) SISO	TX/RX

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]
		ANT1	ANT1
2412 - 2472	802.11b SISO	16.64	46.13
	802.11g SISO	16.39	43.55
	802.11n(HT20) SISO	15.43	34.91

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

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

**The internal antenna was Permanently attached.
Therefore this E.U.T Complies with the requirement of §15.203.**

The radio utilizes an internal antennas, with ANT 1's maximum gain of -1.80 dBi.

5.4. TESTED CHANNELS LIST

802.11b Mode	Channel	Frequency (MHz)
Low	1	2412
Mid	6	2437
High	11	2462
Reduction High 1	12	2467
Reduction High 2	13	2472

802.11g Mode	Channel	Frequency (MHz)
Low	1	2412
Mid	6	2437
High	10	2457
Reduction High 1	11	2462
Reduction High 2	12	2467
Reduction High 3	13	2472

802.11n HT20 Mode	Channel	Frequency (MHz)
Low	1	2412
Mid	6	2437
High	10	2457
Reduction High 1	11	2462
Reduction High 2	12	2467
Reduction High 3	13	2472

5.5. 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.

For SISO (ANT1), 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 1TX

802.11n HT20 mode: MCS0 1TX

Note : All radiated and power line conducted tests were performed attached with travel adapter for the worst case condition mode.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA200	R37M7FA00Q1DK3	N/A
Data Cable	SAMSUNG	ECB-DU68WB	GH39-02004A	N/A
USB Herb	Anker Technology	A7516	ACDPUD0930405348	DoC
Keyboard	LENOVO	SK-8825	3971992	Doc
Mouse	LENOVO	MOEUUOA	44VF594	DoC

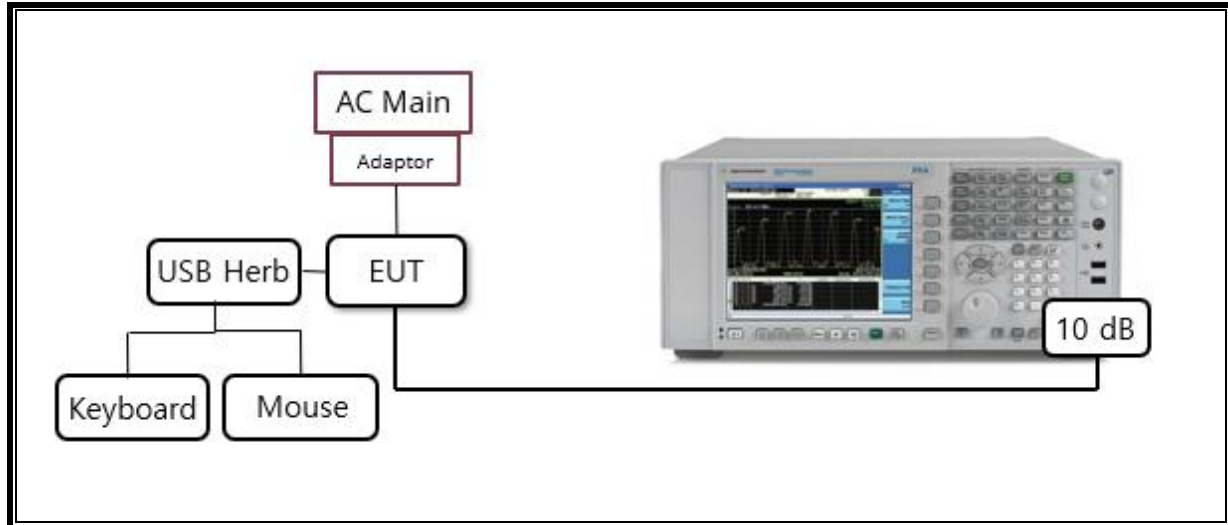
I/O CABLE

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0m	N/A

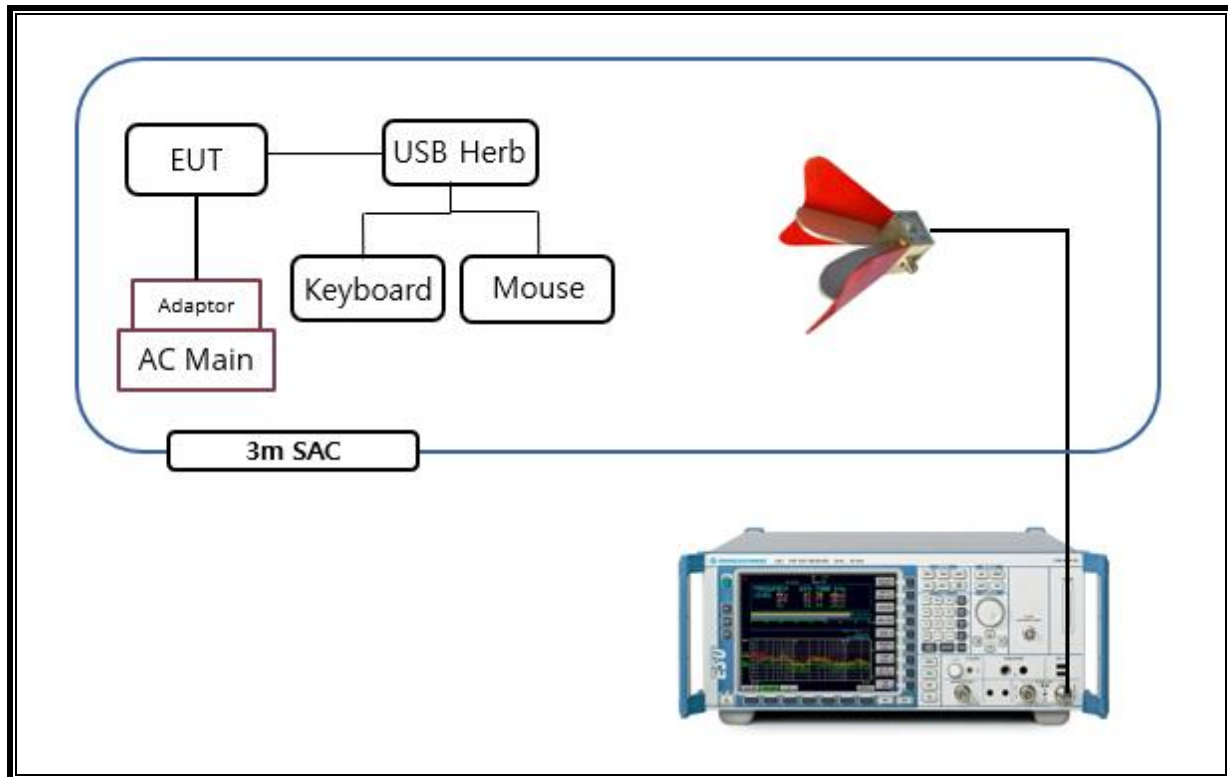
TEST SETUP

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 (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



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	New Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	08-04-20
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	08-04-20
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	08-04-20
Antenna, Horn, 18 GHz	ETS	3115	00167211	08-04-20
Antenna, Horn, 18 GHz	ETS	3115	00161451	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00168724	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00168717	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00205959	08-04-20
Antenna, Horn, 40 GHz	ETS	3116C	00166155	08-14-20
Antenna, Horn, 40 GHz	ETS	3116C	00168645	10-02-21
Preamplifier	ETS	3116C-PA	00168841	08-08-20
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-05-20
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-05-20
Preamplifier, 1000 MHz	Sonoma	310N	370599	08-05-20
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	08-06-20
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-06-20
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	08-06-20
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	08-06-20
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	08-06-20
Spectrum Analyzer, 43.5 GHz	R&S	FSW43	104089	08-06-20
Average Power Sensor	Agilent / HP	U2000	MY54270007	08-09-20
Attenuator	PASTERNAK	PE7087-10	A001	08-08-20
Attenuator	PASTERNAK	PE7087-10	A008	08-08-20
Attenuator	PASTERNAK	PE7004-10	2	08-06-20
Attenuator	PASTERNAK	PE7087-10	A009	08-08-20
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-06-20
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-06-20
EMI Test Receive, 44 GHz	R&S	ESW44	101590	08-05-20
EMI Test Receive, 3 GHz	R&S	ESR3	101832	08-05-20
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	08-06-20
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	015	08-06-20
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	020	08-06-20
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	08-06-20
High Pass Filter 3GHz	Micro-Tronics	HPM17543	015	08-06-20
High Pass Filter 3GHz	Micro-Tronics	HPM17543	020	08-06-20
High Pass Filter 6GHz	Micro-Tronics	HPS17542	009	08-06-20
High Pass Filter 6GHz	Micro-Tronics	HPS17542	016	08-06-20
High Pass Filter 6GHz	Micro-Tronics	HPS17542	021	08-06-20
LISN	R&S	ENV-216	101837	08-09-20
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	10-02-21
Antenna, Loop, 9kHz-30MHz				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

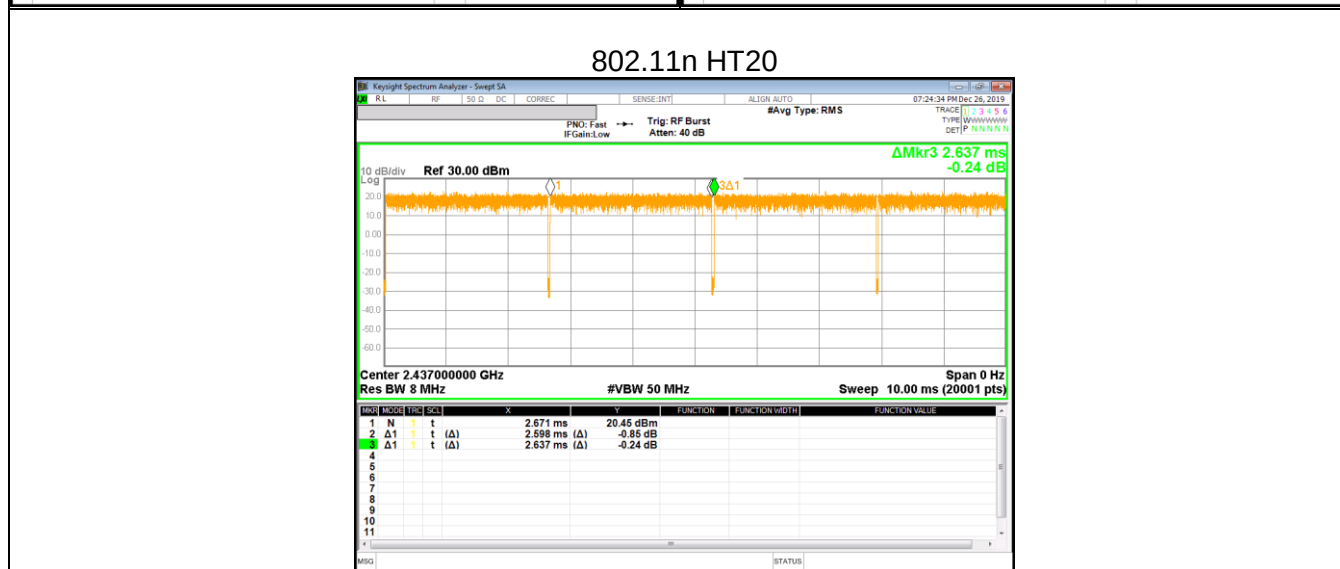
7. REFERENCE MEASUREMENT RESULTS

7.1. ON TIME AND DUTY CYCLE RESULTS

LIMITS

None; for reporting purposes only.

Band	Mode	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor [dB]	1/T Minimum VBW [kHz]
2.4 GHz	802.11b	16.820	16.940	0.99	99.3	0.00	0.059
	802.11g	2.795	2.833	0.99	98.7	0.00	0.358
	802.11n(HT20)	2.598	2.637	0.99	98.5	0.00	0.385



8. MEASUREMENT METHODS

6 dB BW : KDB 558074 D01 v05r02, Section 8.2

OUTPUT POWER : KDB 558074 D01 v05r02, Section 8.3.2.3.

POWER SPECTRAL DENSITY : KDB 558074 D01 v05r02, Section 8.4.

Out-of-band EMISSIONS (Conducted) : KDB 558074 D01 v05r02, Section 8.5.

Out-of-band EMISSIONS IN NON-RESTRICTED BANDS: KDB 558074 D01 v05r02, Section 8.5.

Out-of-band EMISSIONS IN RESTRICTED BANDS KDB 558074 D01 v05r02, Section 8.6.

AC Power Line Conducted Emission : ANSI C63.10-2013, Section 6.2.

9. SUMMARY TABLE

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

10. ANTENNA PORT TEST RESULTS

10.1. 6 dB BANDWIDTH & 99% Bandwidth

LIMITS

FCC §15.247 (a) (2)

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

TEST PROCEDURE

- 6 dB Bandwidth

Reference to KDB 558074 D01 15.247 Meas Guidance: The transmitter output is connected to a spectrum analyzer with the RBW set to 100 kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

- 99% Bandwidth

RBW: 1 ~ 5% of 99% Bandwidth, VBW $\geq 3 \times$ RBW, sample detector and clear write.

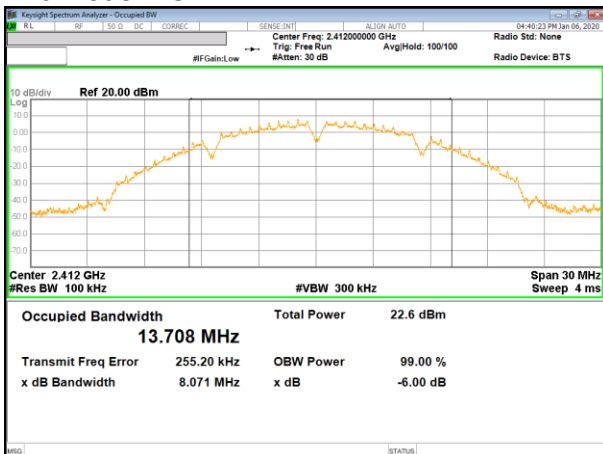
10.1.1. TEST RESULTS

Mode	Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	99% Bandwidth [MHz]	6 dB BW Minimum Limit [MHz]
			ANT1	ANT1	
802.11b	1	2412	8.071	13.849	0.5
	6	2437	8.040	13.716	
	11	2462	8.541	13.932	
	12	2467	8.542	13.719	
	13	2472	8.537	13.874	
	Worst		8.040	13.716	
802.11g	1	2412	15.44	16.294	0.5
	6	2437	15.31	16.240	
	10	2457	16.03	16.358	
	11	2462	15.33	16.381	
	12	2467	14.96	16.355	
	13	2472	16.07	16.361	
	Worst		14.96	16.240	
802.11n HT20	1	2412	16.31	17.476	0.5
	6	2437	16.14	17.473	
	10	2457	16.92	17.515	
	11	2462	16.24	17.491	
	12	2467	16.90	17.566	
	13	2472	16.87	17.536	
	Worst		16.14	17.473	

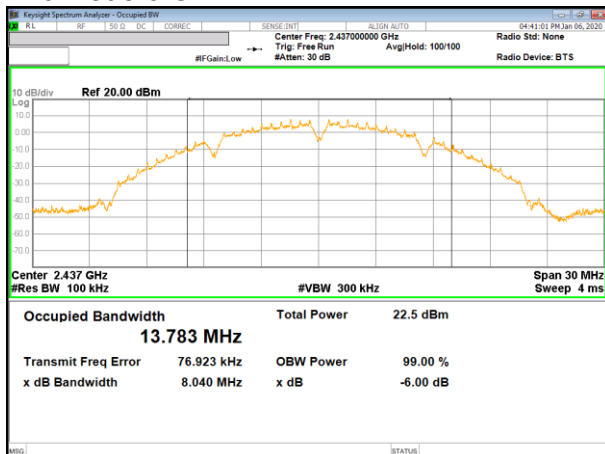
10.1.2. 6 dB Bandwidth TEST PLOTS

1TX ANT 1

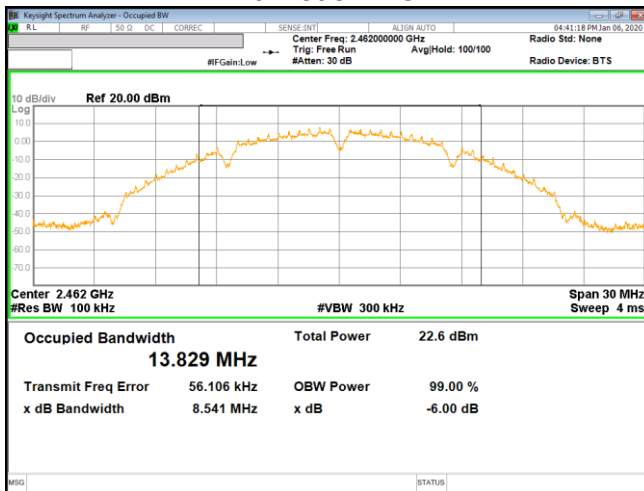
11b Mode 1 Ch.



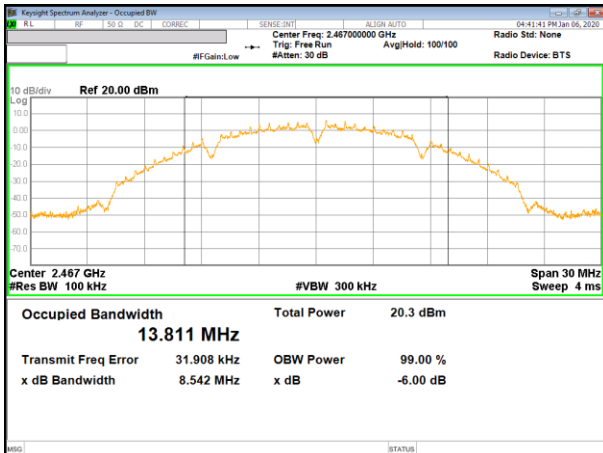
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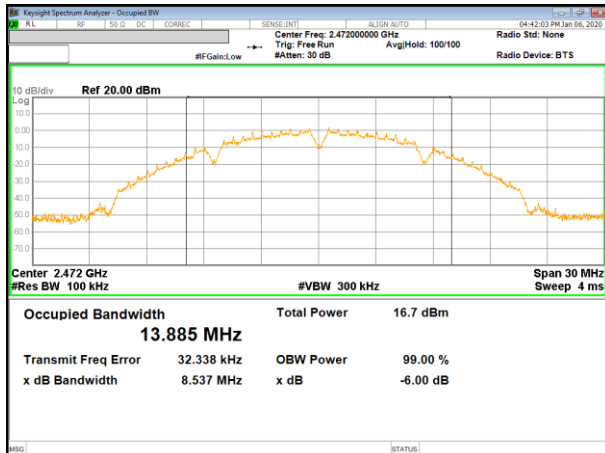
11b Mode 11 Ch.



11b Mode 12 Ch.



11b Mode 13 Ch.

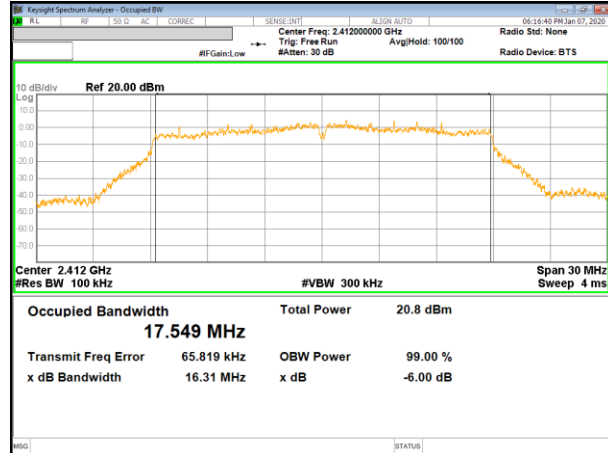




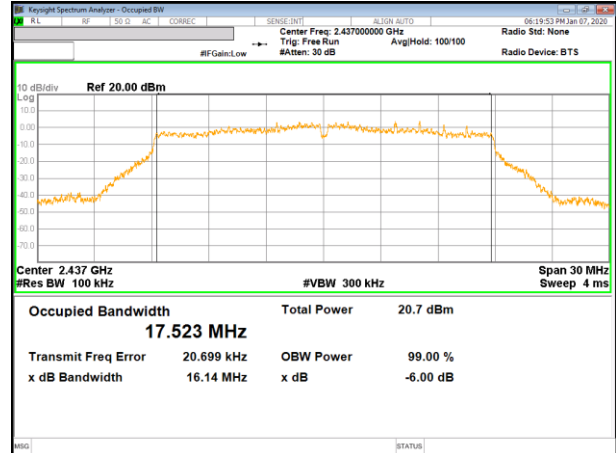


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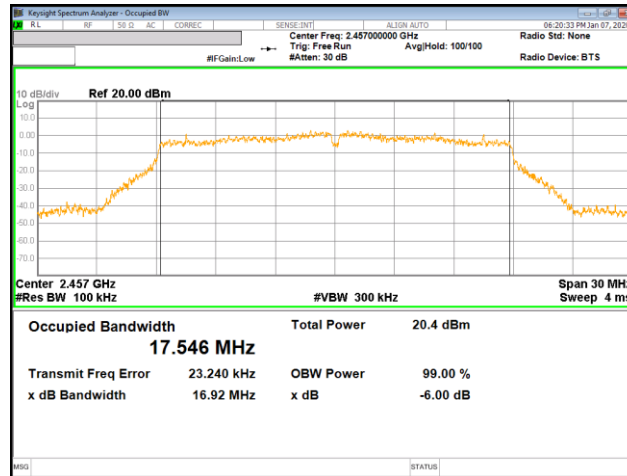
11n HT20 Mode 1 Ch.



11n HT20 Mode 6 Ch.

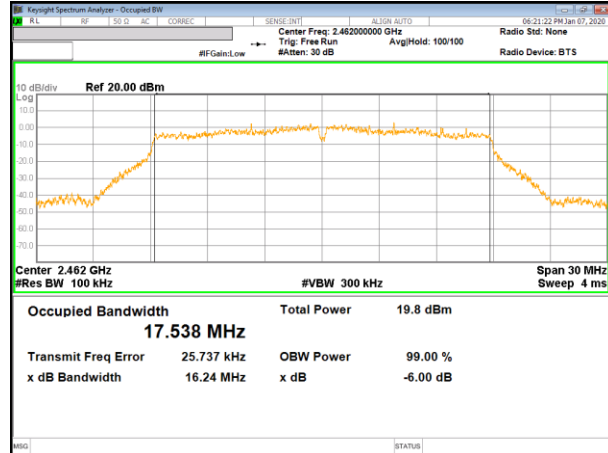


11n HT20 Mode 10 Ch.

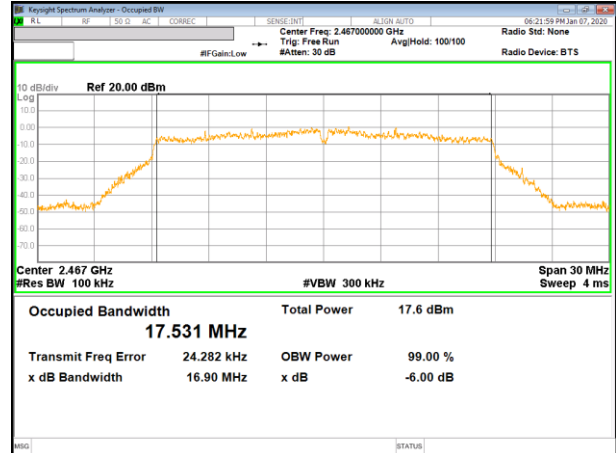


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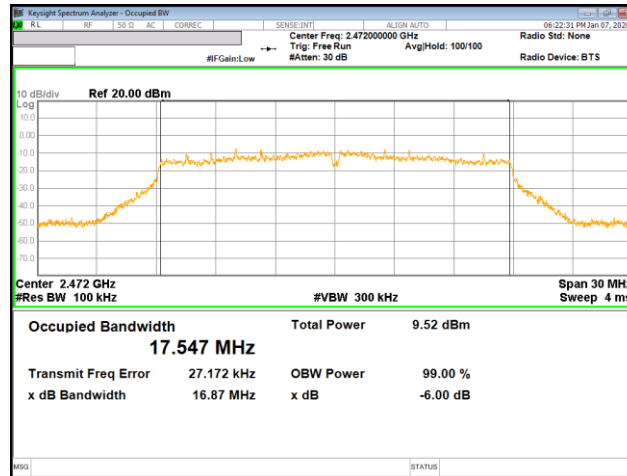
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11n HT20 Mode 12 Ch.



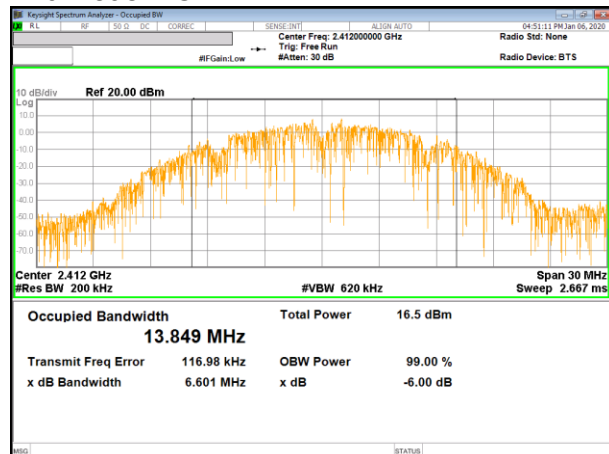
11n HT20 Mode 13 Ch.



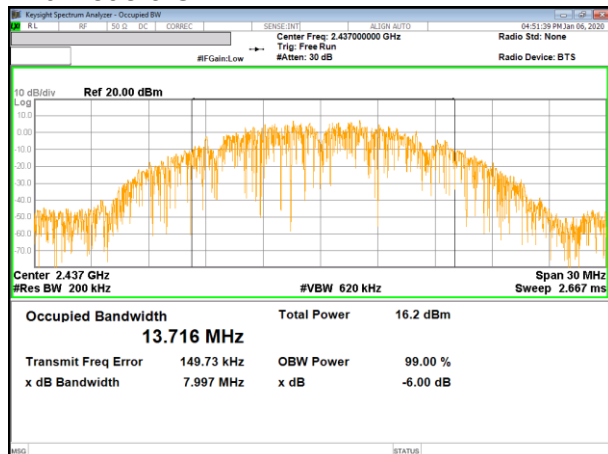
10.1.3. 99% Bandwidth TEST PLOTS

1TX ANT 1

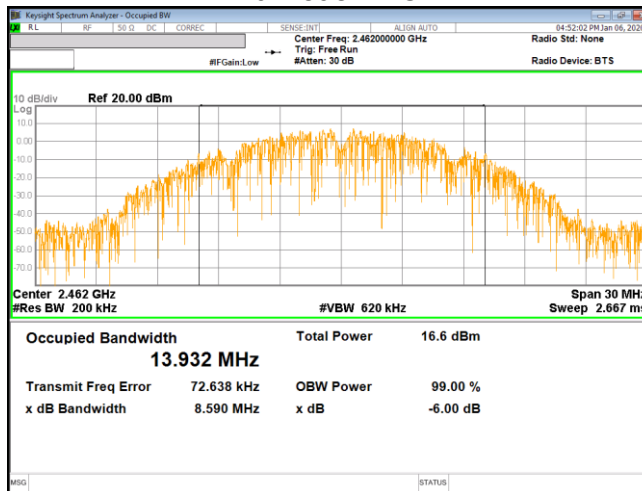
11b Mode 1 Ch.



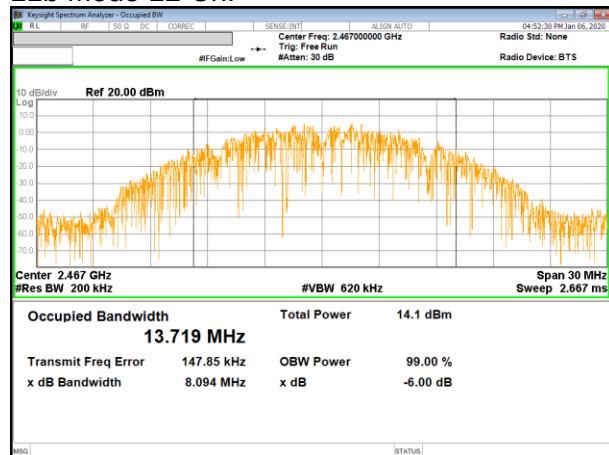
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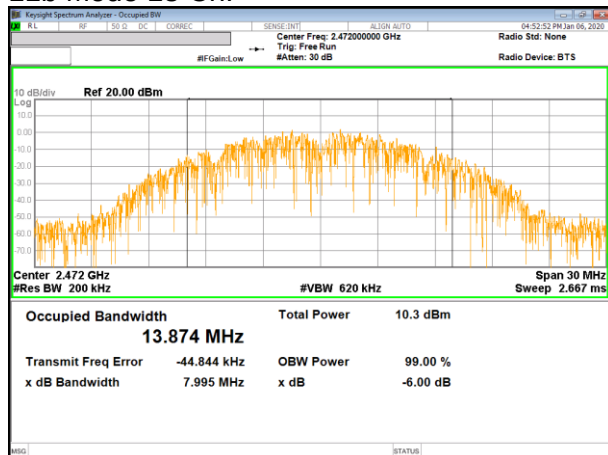
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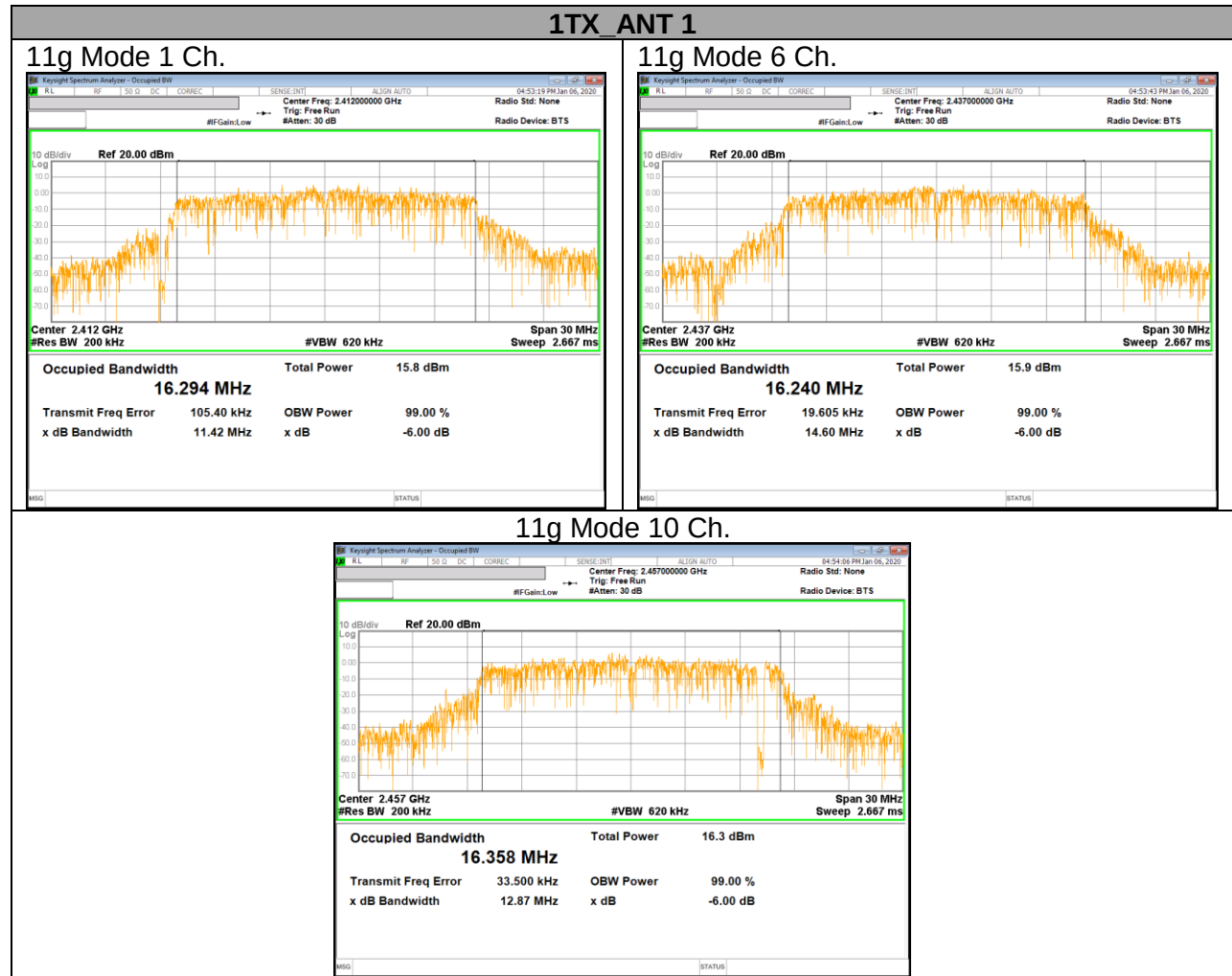


11b Mode 12 Ch.



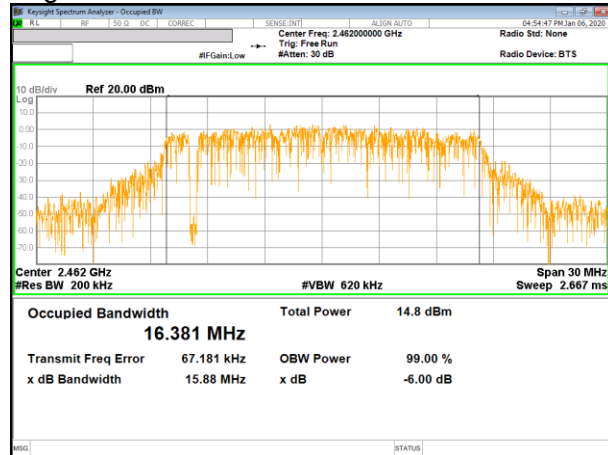
11b Mode 13 Ch.



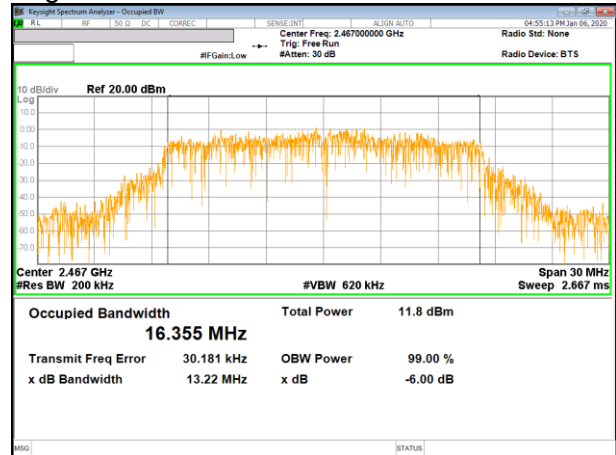


1TX ANT 1

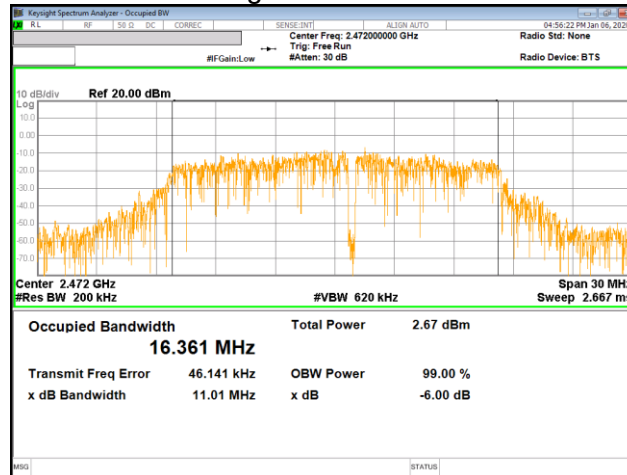
11g Mode 11 Ch.



11g Mode 12 Ch.

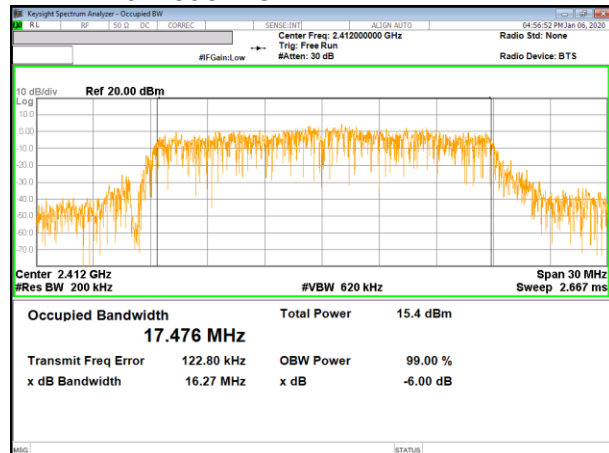


11g Mode 13 Ch.

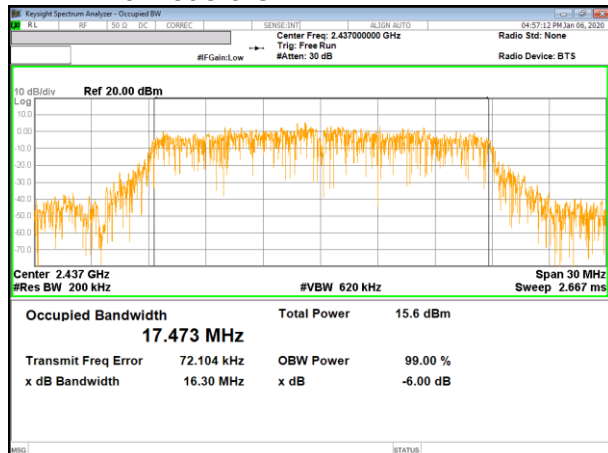


1TX_ANT 1

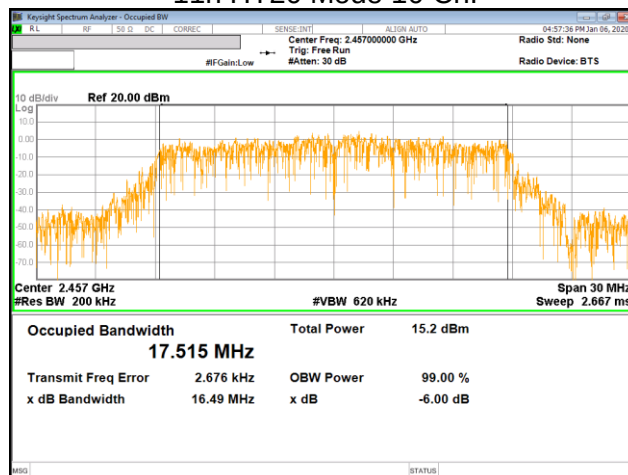
11n HT20 Mode 1 Ch.



11n HT20 Mode 6 Ch.

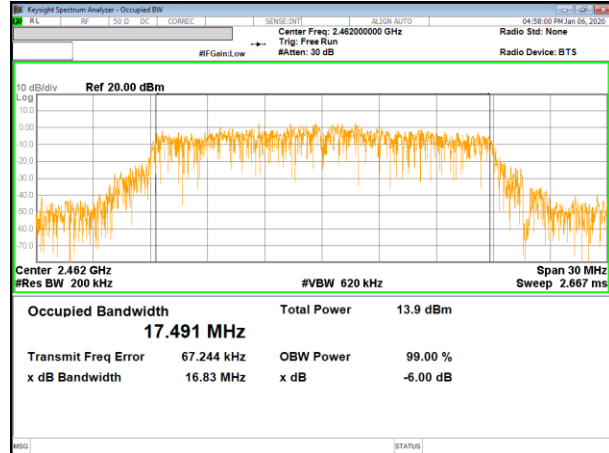


11n HT20 Mode 10 Ch.

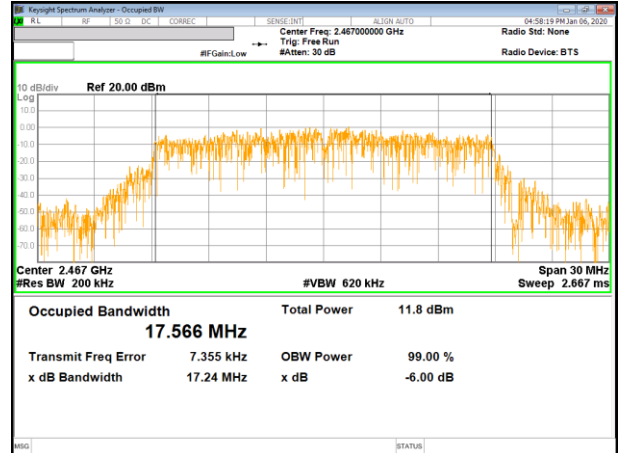


1TX_ANT 1

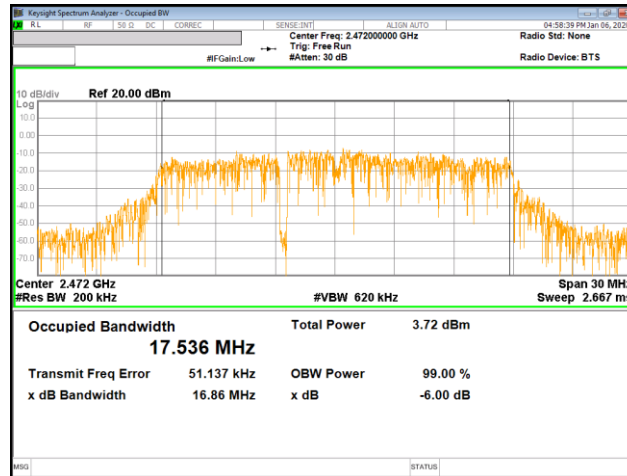
11n HT20 Mode 11 Ch.



11n HT20 Mode 12 Ch.



11n HT20 Mode 13 Ch.



10.2. OUTPUT POWER

LIMITS

FCC §15.247

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.

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 8.3.2.3 under KDB558074 D01 15.247 Meas Guidance.

Duty cycle correction factor is not added to the average output power results for duty cycle factor > 98%.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is unequal among the chains.
The directional gain is:

Bands [MHz]	ANT 1 [dBi]
2412-2472	-1.80

RESULTS

10.2.1. TEST RESULTS

Frequency Range [MHz]	ANT Gain	FCC Power Limit [dBm]	Max Power [dBm]
	ANT1		
2412 - 2472	-1.80	30.00	30.00
Included in Calculations of Corr'd Power			
Duty Cycle CF	802.11b	0.00	dB
	802.11g	0.00	dB
	802.11n HT20	0.00	dB

Calculation of Output Power result

→ Corr'd Power = Meas Power + Duty Cycle CF

Mode	Channel	Frequency [MHz]	Meas Power [dBm]	Corr'd Power [dBm]	Power Limit [dBm]
			ANT1	ANT1	
802.11b	1	2412	16.40	16.40	30.00
	6	2437	16.64	16.64	
	11	2462	16.42	16.42	
	12	2467	14.26	14.26	
	13	2472	10.72	10.72	
Worst Case				16.64	
802.11g	1	2412	16.31	16.31	30.00
	6	2437	16.34	16.34	
	10	2457	16.39	16.39	
	11	2462	15.23	15.23	
	12	2467	11.94	11.94	
	13	2472	2.94	2.94	
Worst Case				16.39	
802.11n HT20	1	2412	15.40	15.40	30.00
	6	2437	15.43	15.43	
	10	2457	15.15	15.15	
	11	2462	13.92	13.92	
	12	2467	11.85	11.85	
	13	2472	3.61	3.61	
Worst Case				15.43	

10.3. PSD

LIMITS

FCC §15.247

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 section 8.4 under KDB558074 D01 15.247 Meas Guidance.

RESULTS

10.3.1. TEST RESULTS

Included in Calculations of Corr'd Power			
Duty Cycle CF	802.11b	0.00	dB
	802.11g	0.00	dB
	802.11n HT20	0.00	dB

Calculation of Output PSD result

- 1TX : Corr'd PSD = Meas PSD + Duty Cycle CF
- 2TX : Total PSD = ANT1 Meas PSD + ANT2 Meas PSD + Duty Cycle CF

Mode	Channel	Frequency [MHz]	Meas PSD [dBm/3kHz]	Corr'd PSD [dBm/3kHz]	PSD Limit [dBm/3kHz]
			ANT1	ANT1	
802.11b	1	2412	-15.28	-15.28	8.00
	6	2437	-15.26	-15.26	
	11	2462	-15.16	-15.16	
	12	2467	-17.35	-17.35	
	13	2472	-21.06	-21.06	
Worst Case				-15.16	
802.11g	1	2412	-14.21	-14.21	8.00
	6	2437	-14.37	-14.37	
	10	2457	-14.38	-14.38	
	11	2462	-15.16	-15.16	
	12	2467	-17.22	-17.22	
	13	2472	-24.91	-24.91	
Worst Case				-14.21	
802.11n HT20	1	2412	-14.53	-14.53	8.00
	6	2437	-14.60	-14.60	
	10	2457	-15.34	-15.34	
	11	2462	-15.88	-15.88	
	12	2467	-17.95	-17.95	
	13	2472	-24.64	-24.64	
Worst Case				-14.53	

10.3.2. PSD PLOTS

