



CERTIFICATION TEST REPORT

Report Number. : 12530276-E5V2

Applicant : Samsung Electronics Co., Ltd.
129 Samsung-Ro, Yeongtong-Gu,
Suwon-Si, Gyeonggi-Do, 16677, Korea

Model : SM-T927A

FCC ID : A3LSMT927A

EUT Description : WCDMA/LTE Tablet with BT. DTS/UNII a/b/g/n/ac

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
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REPORT REVISION HISTORY

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V1	12/26/2018	Initial Issue	
V2	1/9/2019	Updated Section 5.2,5.5, 8.3.12,8.5.9-8.5.16 and Removed GSM Technology from the report.	K.Kedida

TABLE OF CONTENTS

REPORT REVISION HISTORY	2
TABLE OF CONTENTS	3
1. ATTESTATION OF TEST RESULTS	6
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. MEASURING INSTRUMENT CALIBRATION	8
4.2. SAMPLE CALCULATION	8
4.3. MEASUREMENT UNCERTAINTY.....	8
5. EQUIPMENT UNDER TEST	9
5.1. EUT DESCRIPTION	9
5.2. MAXIMUM OUTPUT POWER.....	9
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	10
5.4. SOFTWARE AND FIRMWARE.....	10
5.5. WORST-CASE CONFIGURATION AND MODE	10
5.6. DESCRIPTION OF TEST SETUP.....	11
6. MEASUREMENT METHOD.....	14
7. TEST AND MEASUREMENT EQUIPMENT	15
8. ANTENNA PORT TEST RESULTS	16
8.1. ON TIME AND DUTY CYCLE.....	16
8.2. 26 dB BANDWIDTH.....	18
8.2.1. 802.11a MODE IN THE 5.2 GHz BAND	19
8.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND	20
8.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND	21
8.2.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND	22
8.2.5. 802.11a MODE IN THE 5.3 GHz BAND	23
8.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND	24
8.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND	25
8.2.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND	26
8.2.9. 802.11a MODE IN THE 5.6 GHz BAND	27
8.2.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND	28
8.2.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND	29
8.2.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND	30
8.2.13. 802.11a MODE IN THE 5.8 GHz BAND	31
8.2.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND	32

8.2.15.	802.11n HT40 MODE IN THE 5.8 GHz BAND	33
8.2.16.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	34
8.3.	99% BANDWIDTH	35
8.3.1.	802.11a MODE IN THE 5.2 GHz BAND	36
8.3.2.	802.11n HT20 MODE IN THE 5.2 GHz BAND	37
8.3.3.	802.11n HT40 MODE IN THE 5.2 GHz BAND	38
8.3.4.	802.11ac VHT80 MODE IN THE 5.2 GHz BAND	39
8.3.5.	802.11a MODE IN THE 5.3 GHz BAND	40
8.3.6.	802.11n HT20 MODE IN THE 5.3 GHz BAND	41
8.3.7.	802.11n HT40 MODE IN THE 5.3 GHz BAND	42
8.3.8.	802.11ac VHT80 MODE IN THE 5.3 GHz BAND	43
8.3.9.	802.11a MODE IN THE 5.6 GHz BAND	44
8.3.10.	802.11n HT20 MODE IN THE 5.6 GHz BAND	45
8.3.11.	802.11n HT40 MODE IN THE 5.6 GHz BAND	46
8.3.12.	802.11ac VHT80 MODE IN THE 5.6 GHz BAND	47
8.3.13.	802.11a MODE IN THE 5.8 GHz BAND	48
8.3.14.	802.11n HT20 MODE IN THE 5.8 GHz BAND	49
8.3.15.	802.11n HT40 MODE IN THE 5.8 GHz BAND	50
8.3.16.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	51
8.4.	6 dB BANDWIDTH	52
8.4.1.	802.11a MODE IN THE 5.8 GHz BAND	53
8.4.2.	802.11n HT20 MODE IN THE 5.8 GHz BAND	54
8.4.3.	802.11n HT40 MODE IN THE 5.8 GHz BAND	55
8.4.4.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	56
8.5.	OUTPUT POWER AND PSD	57
8.5.1.	802.11a MODE IN THE 5.2 GHz BAND	59
8.5.2.	802.11n HT20 MODE IN THE 5.2 GHz BAND	61
8.5.3.	802.11n HT40 MODE IN THE 5.2 GHz BAND	63
8.5.4.	802.11ac VHT80 MODE IN THE 5.2 GHz BAND	65
8.5.5.	802.11a MODE IN THE 5.3 GHz BAND	67
8.5.6.	802.11n HT20 MODE IN THE 5.3 GHz BAND	69
8.5.7.	802.11n HT40 MODE IN THE 5.3 GHz BAND	71
8.5.8.	802.11ac VHT80 MODE IN THE 5.3 GHz BAND	73
8.5.9.	802.11a MODE IN THE 5.6 GHz BAND	75
8.5.10.	802.11n HT20 MODE IN THE 5.6 GHz BAND	77
8.5.11.	802.11n HT40 MODE IN THE 5.6 GHz BAND	79
8.5.12.	802.11ac VHT80 MODE IN THE 5.6 GHz BAND	81
8.5.13.	802.11a MODE IN THE 5.8 GHz BAND	83
8.5.14.	802.11n HT20 MODE IN THE 5.8 GHz BAND	85
8.5.15.	802.11n HT40 MODE IN THE 5.8 GHz BAND	87
8.5.16.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	89
9.	RADIATED TEST RESULTS	91
9.1.	TRANSMITTER ABOVE 1 GHz	92
9.1.1.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND	92
9.1.2.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND	100
9.1.3.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND	108
9.1.4.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND	114
9.1.5.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND	118
9.1.6.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND	126
9.1.7.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND	134

9.1.8.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND	140
9.1.9.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND	144
9.1.10.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND.....	156
9.1.11.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND.....	168
9.1.12.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 GHz BAND	180
9.1.13.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND	190
9.1.14.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND.....	200
9.1.15.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND.....	210
9.1.16.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND	218
9.2.	<i>Worst Case Below 30 MHz</i>	<i>224</i>
9.3.	<i>Worst Case Below 1 GHz</i>	<i>225</i>
9.4.	<i>Worst Case 18-26 GHz.....</i>	<i>227</i>
9.5.	<i>Worst Case 26-40 GHz.....</i>	<i>229</i>
10.	AC POWER LINE CONDUCTED EMISSIONS	231
10.1.1.	AC Power Line Norm	232
11.	SETUP PHOTOS.....	234

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung Electronics Co., Ltd.
129 Samsung-Ro, Yeongtong-Gu,
Suwon-Si, Gyeonggi-Do, 16677, Korea

EUT DESCRIPTION: WCDMA/LTE Tablet with BT, DTS/UNII a/b/g/n/ac

MODEL: SM-T927A

SERIAL NUMBER: Conducted: R32K7002LNR, R32K7002LVV
Radiated: R32K70042PL, R32K70042VT

DATE TESTED: AUGUST 10 – SEPTEMBER 6, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Compliant

UL Verification Services Inc. 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 Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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 NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC KDB 662911 D01 Multiple Transmitter Output v02r01, FCC KDB 789033 D02 v02r01 and ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, Fremont, California, USA. Line conducted emissions are measured only at the 47173 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.

47173 Benicia Street	47266 Benicia Street	47658 Kato Rd.
☒ Chamber A (IC:2324B-1)	☒ Chamber D (IC:22541-1)	☒ Chamber I (IC: 2324A-5)
☒ Chamber B (IC:2324B-2)	☒ Chamber E (IC:22541-2)	☐ Chamber J (IC: 2324A-6)
☐ Chamber C (IC:2324B-3)	☐ Chamber F (IC:22541-3)	☐ Chamber K (IC: 2324A-1)
	☐ Chamber G (IC:22541-4)	☒ Chamber L (IC: 2324A-3)
	☐ Chamber H (IC:22541-5)	

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a WCDMA/LTE Tablet with BT, DTS/UNII a/b/g/n/ac.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.2 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.2 GHz band, 1TX			
5180-5240	802.11a	12.39	17.34
5180-5240	802.11n HT20	12.41	17.42
5190-5230	802.11n HT40	12.66	18.45
5210	802.11ac VHT80	4.38	2.74

5.3 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.3 GHz band, 1TX			
5260 - 5320	802.11a	12.77	18.92
5260 - 5320	802.11n HT20	12.67	18.49
5270 - 5310	802.11n HT40	12.40	17.38
5290	802.11ac VHT80	3.88	2.44

5.6 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.6 GHz band, 1TX			
5500-5720	802.11a	12.60	18.20
5500-5720	802.11n HT20	12.24	16.75
5510-5710	802.11n HT40	12.61	18.24
5530-5690	802.11ac VHT80	9.63	9.18

5.8 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8 GHz band, 1TX			
5745-5825	802.11a	12.41	17.42
5745-5825	802.11n HT20	12.10	16.22
5755-5795	802.11n HT40	12.71	18.66
5775	802.11ac VHT80	12.22	16.67

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna, with the following maximum gains:

Frequency (GHz)	Peak Antenna Gain (dBi)
5180-5240	4.86
5260-5320	4.86
5500-5700	4.86
5725-5850	6.07

5.4. SOFTWARE AND FIRMWARE

The test utility software used during testing was T927A.001

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

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

Worst-case data rates as provided by the client were:

802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0
802.11ac VHT80 mode: MCS0

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	EP-TA300	R37K5PK1GA3SE3	N/A
Earphone	Samsung	N/A	N/A	N/A

I/O CABLES (CONDUCTED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Antenna	1	RF	Shielded	0.2	To PSA
2	USB Type C	1	USB Type C	Un-shielded	1	EUT to AC Mains

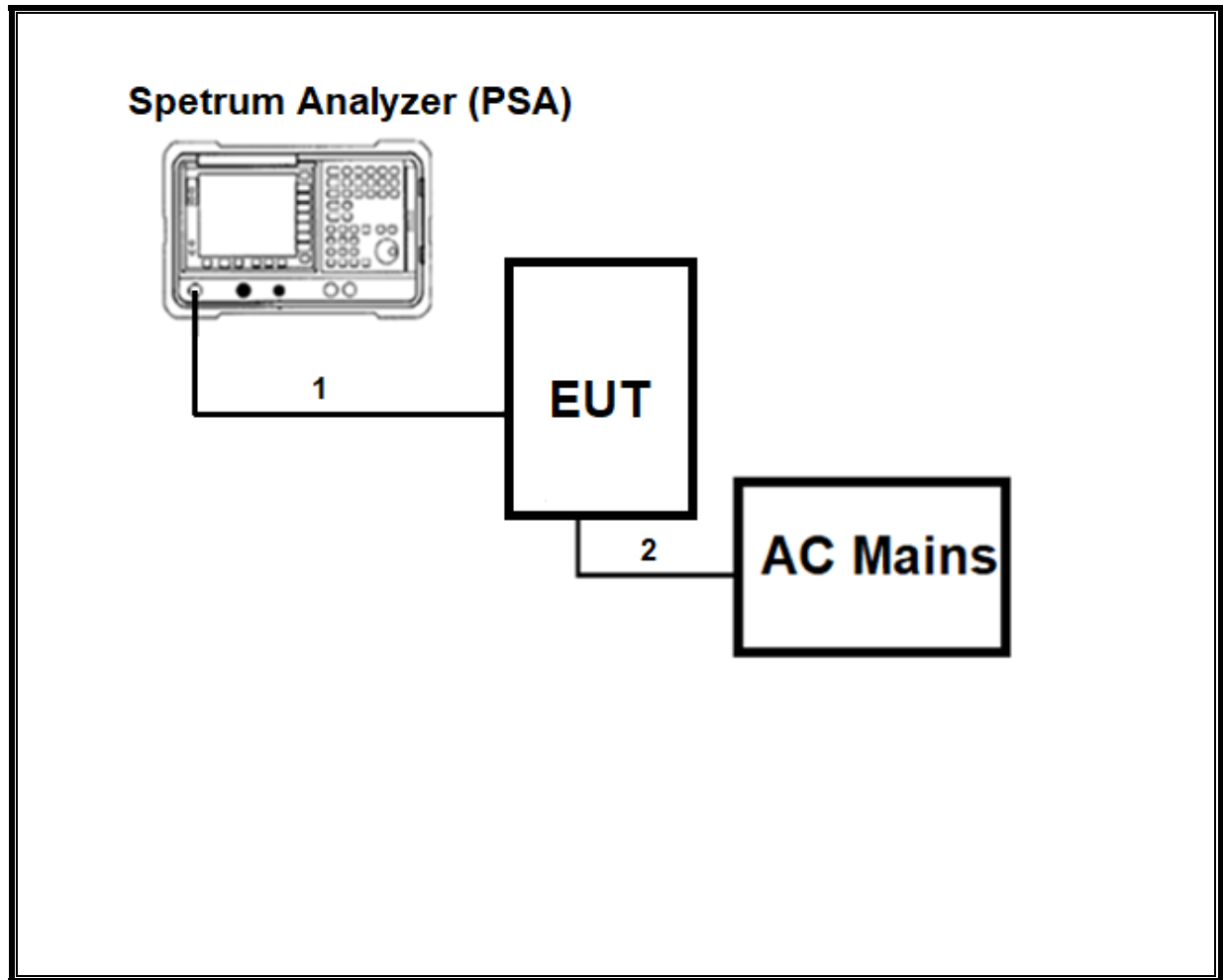
I/O CABLES (RADIATED AND CONDUCTED EMISSIONS)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB Type C	1	USB Type C	Shielded	1	N/A
2	earphone	1	3.5mm	Un-shielded	1	N/A

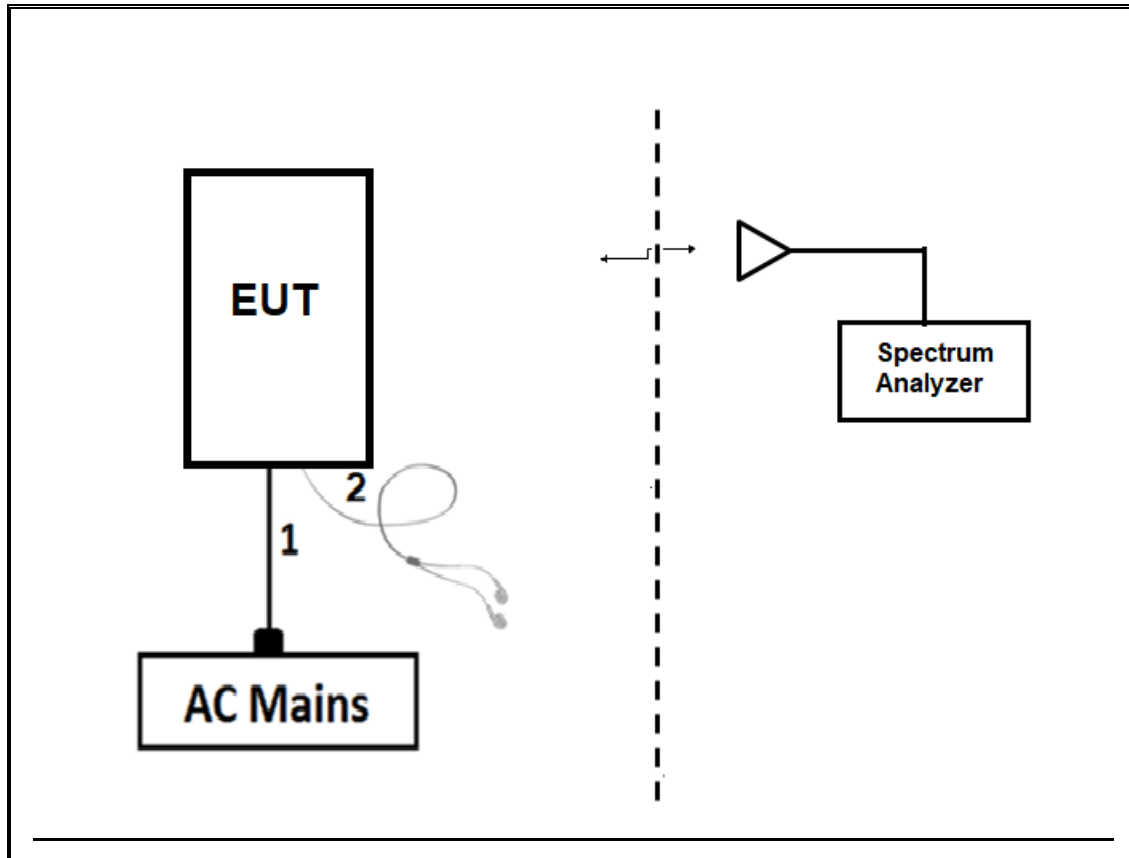
TEST SETUP

The EUT is a stand alone. Test software exercised the radio card.

CONDUCTED TEST SETUP DIAGRAM



RADIATED AND AC LINE CONDUCTED EMISSIONS SETUP DIAGRAM



6. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and KDB 789033 D02 v02r01, Section E.2.b (Method SA-1)

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

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

7. 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	ID Num	Cal Due	Last Cal
Amplifier, 10KHz to 1GHz, 32dB	Agilent (Keysight) Technologies	8447D	T15	10/16/2018	10/16/2017
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB1	T130	10/16/2018	10/16/2017
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T345	04/25/2019	04/25/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T862	05/24/2019	05/24/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T863	06/21/2019	06/21/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T712	02/08/2019	02/08/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T119	04/03/2019	05/24/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T4294	04/03/2019	04/03/2018
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179522	05/11/2019	05/11/2018
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179377	05/03/2019	05/03/2018
RF Amplifier	MITEQ	AFS42-00101800-25-S-42	171460	08/01/2019	08/01/2018
RF Amplifier, 1-18GHz	AMPLICAL	AMP1G18-35	T1571	06/03/2019	06/03/2018
RF Amplifier, 1-18GHz	AMPLICAL	AMP1G18-35	T1563	06/03/2019	06/03/2018
RF Amplifier	MITEQ	AFS42-00101800-25-S-42	T493	08/30/2019	08/30/2018
RF Amplifier, 1-18GHz	MITEQ	AFS42-00101800-25-S-42	T1165	06/12/2019	06/12/2018
RF Amplifier, 1-18GHz	MITEQ	AFS42-00101800-25-S-42	T1568	06/21/2019	06/21/2018
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T200	10/18/2018	10/18/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1113	12/21/2018	12/21/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1466	04/16/2019	04/16/2018
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1454	01/08/2019	01/08/2018
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	T1866	10/10/2018	10/10/2017
18 - 26.5 GHz Horn Antenna	Seavey Division	MWH-1826/B	T89	01/18/2019	01/18/2018
26.5 - 40 GHz Horn Antenna	ARA	MWH-2640/B	T446	08/09/2019	08/09/2018
Pre-Amp 1-26.5 GHz	Agilent	8449B	T404	03/09/2019	03/09/2018
Pre-Amp, 26-40GHz	MITEQ	NSTTA2640-35-HG	T1864	03/09/2019	03/09/2018
EMI Reciever	Rohde & Schwarz	ESR	T1436	02/21/2019	02/22/2018
L.I.S.N.	FCC INC.	FCC LISN 50/250	T1310	06/15/2019	02/26/2018
L.I.S.N.	FCC INC.	FCC LISN 50/250	T24	03/06/2019	03/06/2018

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, June 22, 2018
Antenna Port Software	UL	UL RF	Ver 8.7, Aug 8, 2018

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

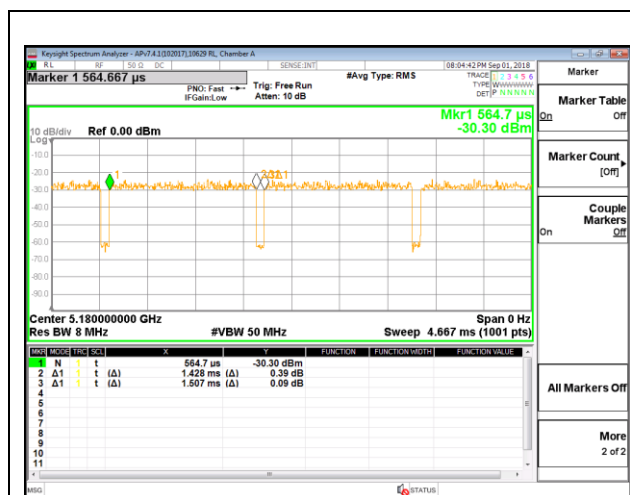
PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

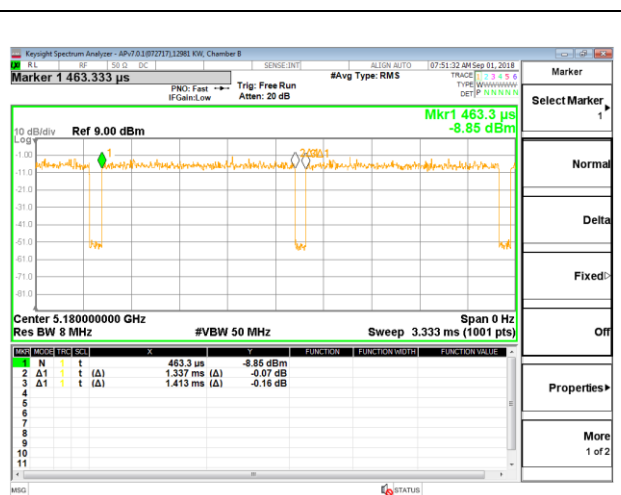
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11a	1.428	1.507	0.948	94.76%	0.23	0.700
802.11n HT20	1.337	1.413	0.946	94.62%	0.24	0.748
802.11n HT40	0.664	0.760	0.874	87.44%	0.58	1.506
802.11ac VHT80	0.333	0.447	0.744	74.39%	1.28	3.007

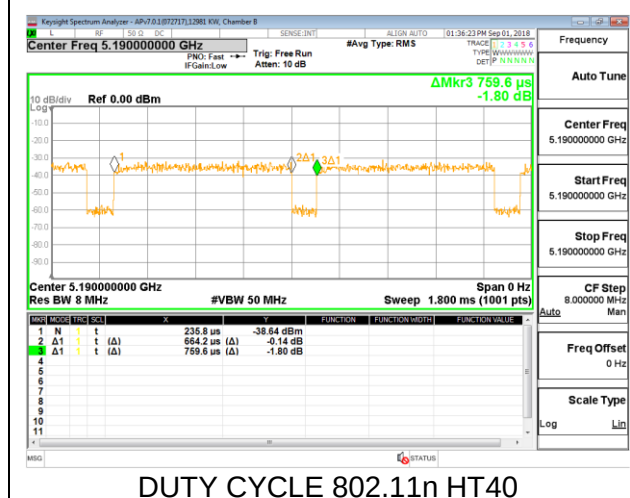
DUTY CYCLE PLOTS



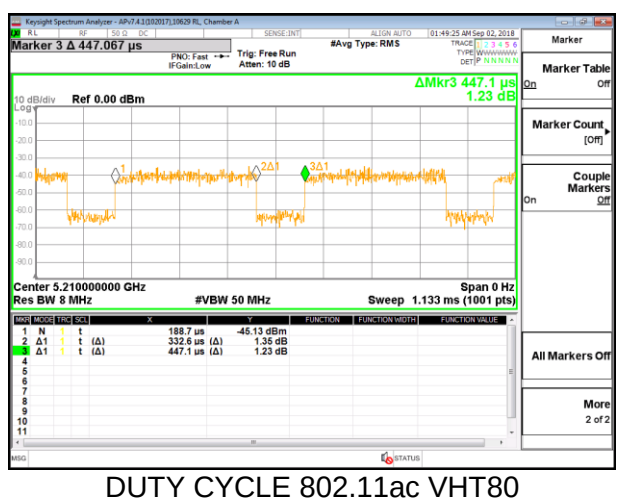
DUTY CYCLE 802.11a



DUTY CYCLE 802.11n HT20



DUTY CYCLE 802.11n HT40



DUTY CYCLE 802.11ac VHT80

8.2. 26 dB BANDWIDTH

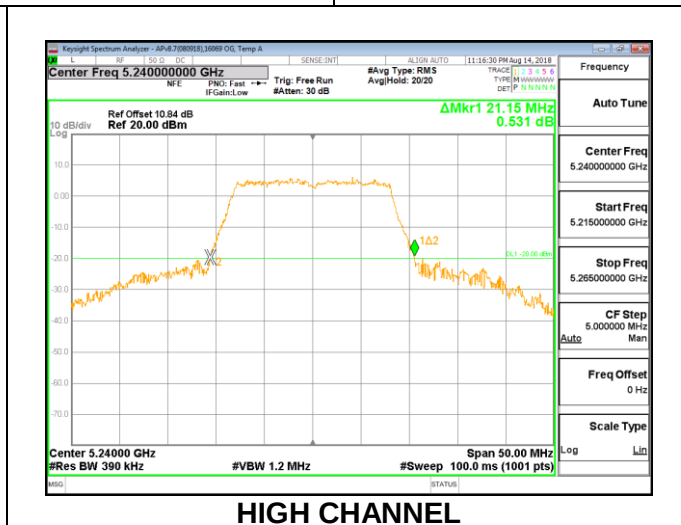
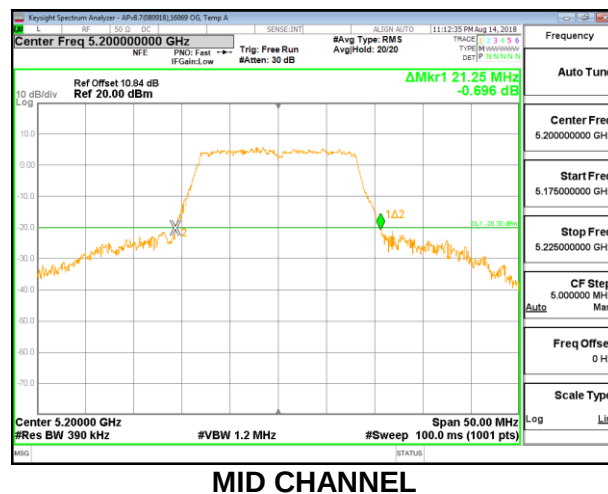
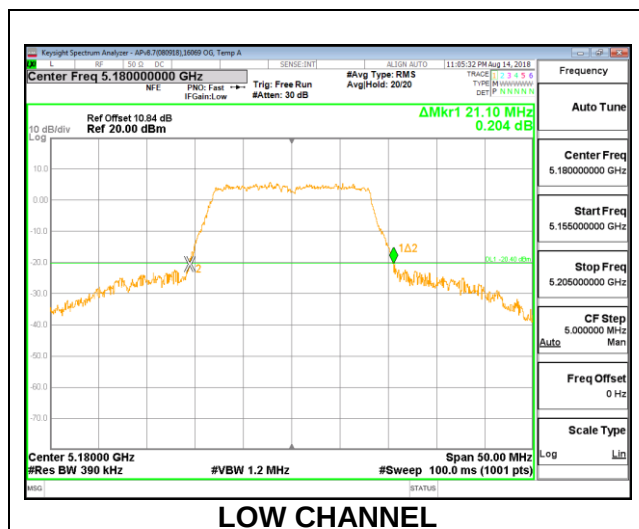
LIMITS

None; for reporting purposes only.

RESULTS

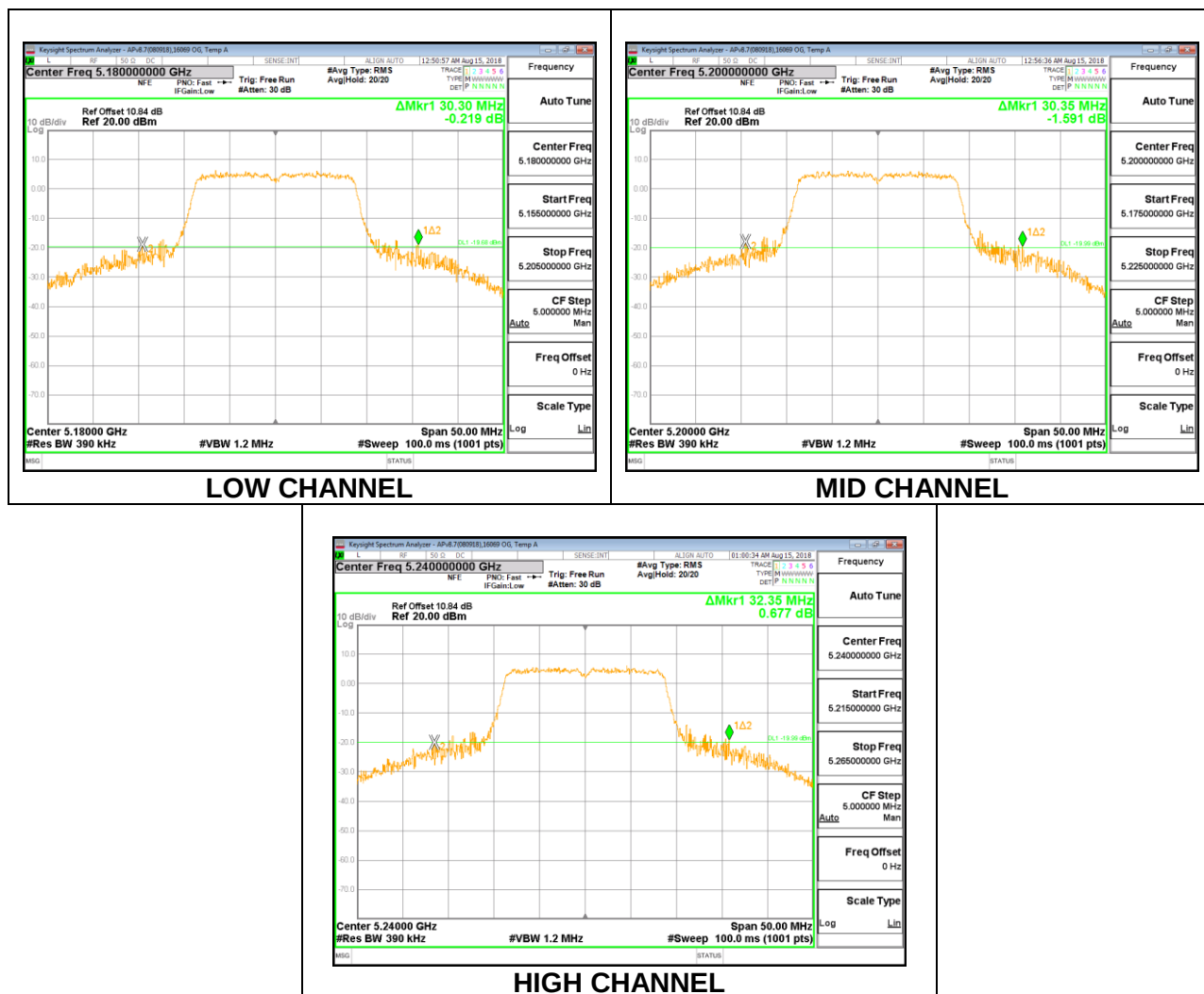
8.2.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5180	21.10
Mid	5200	21.25
High	5240	21.15



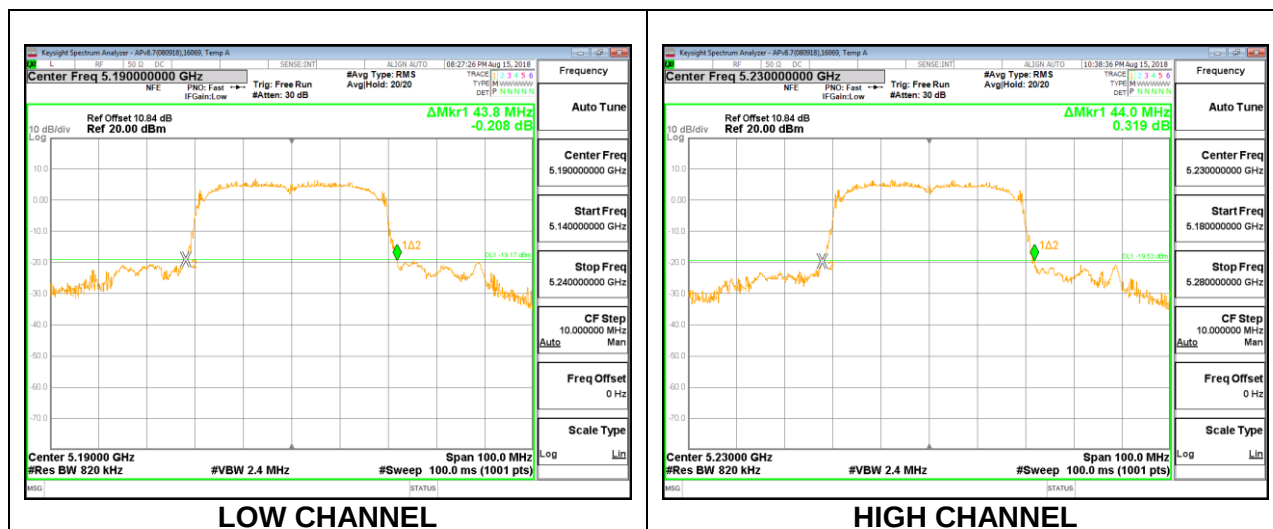
8.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5180	30.30
Mid	5200	30.35
High	5240	32.35



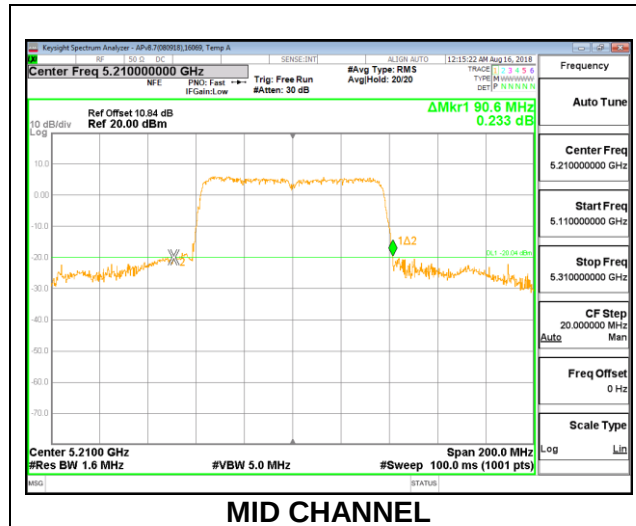
8.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5190	43.80
High	5230	44.00



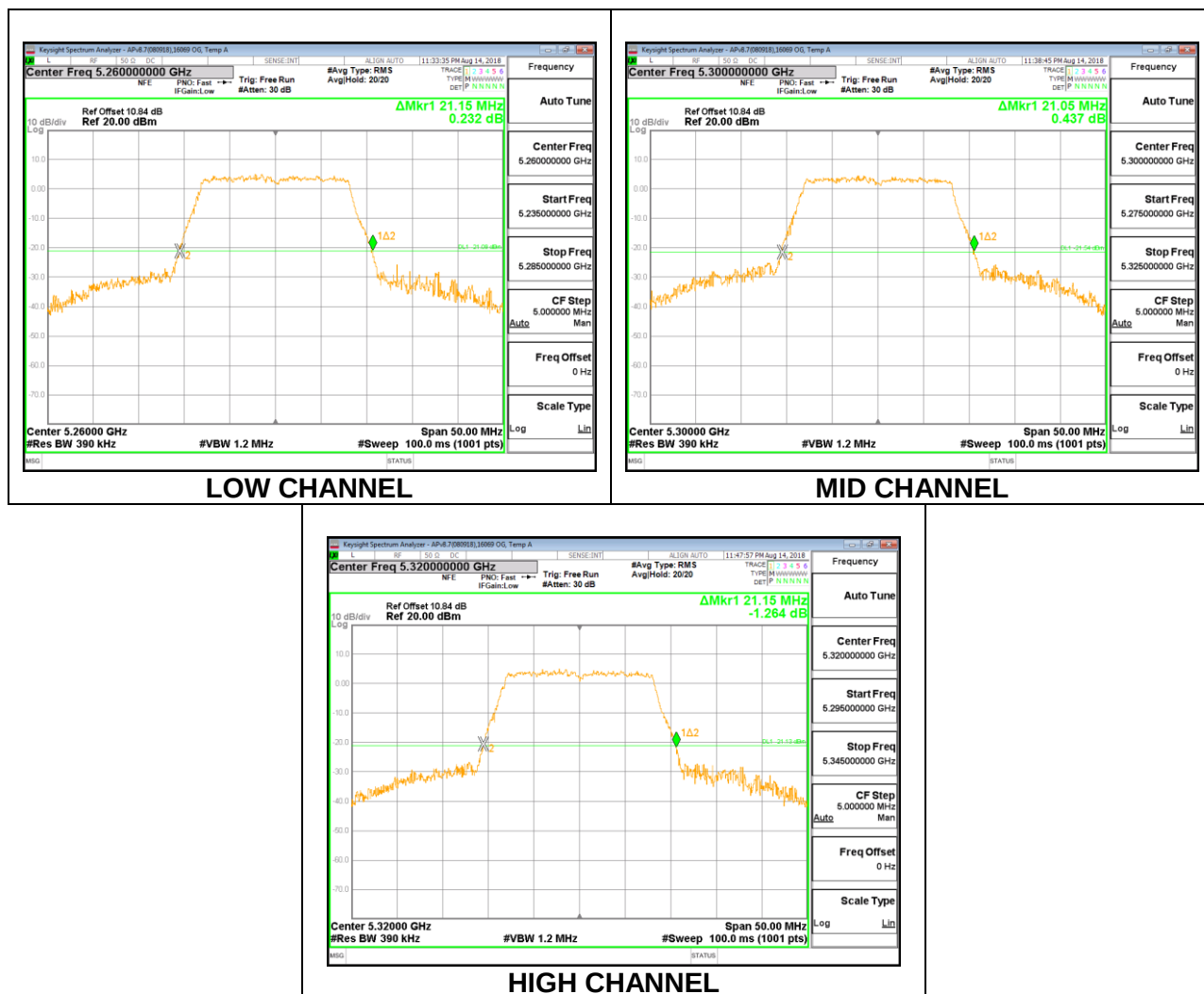
8.2.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5210	90.60



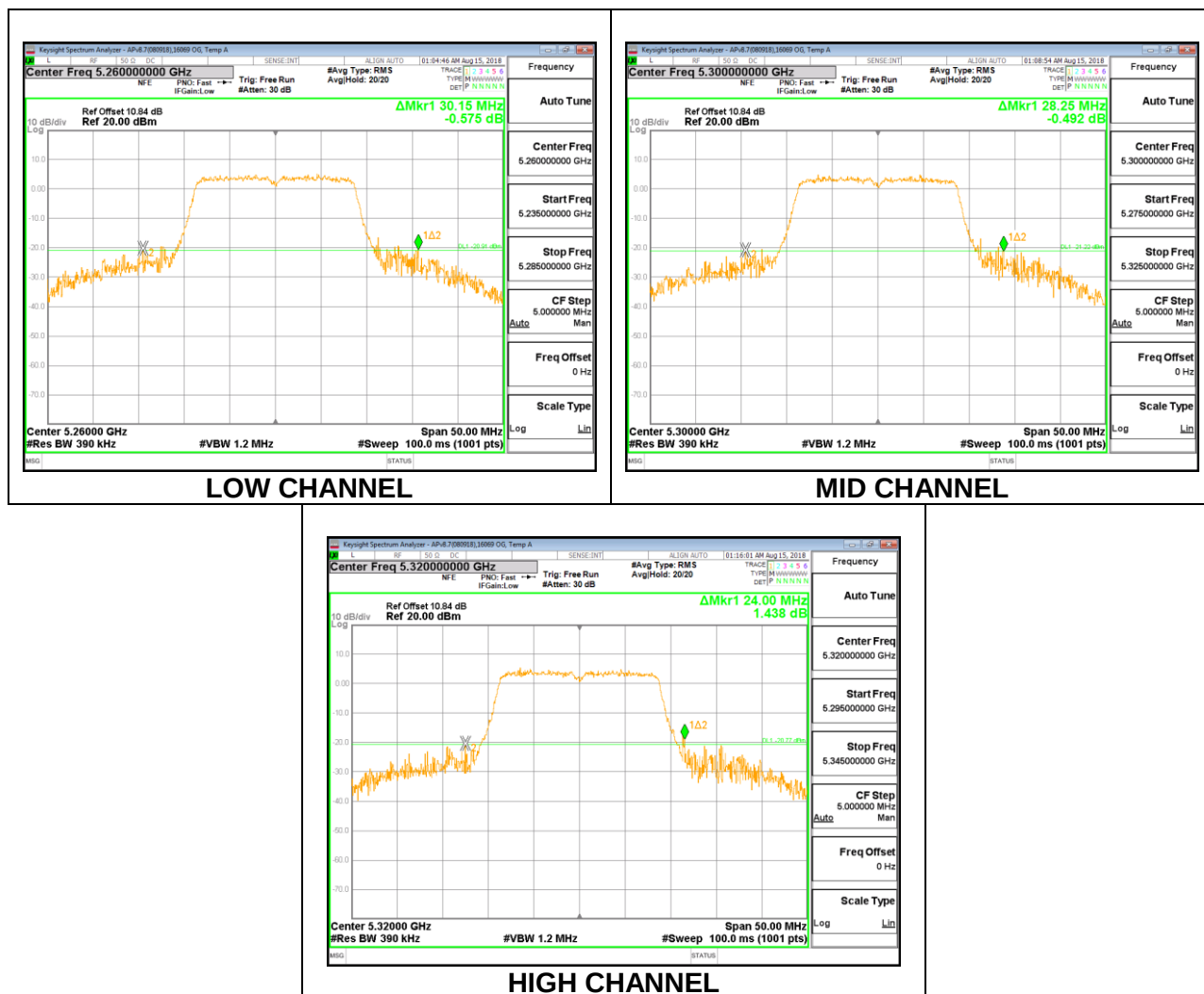
8.2.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5260	21.15
Mid	5300	21.05
High	5320	21.15



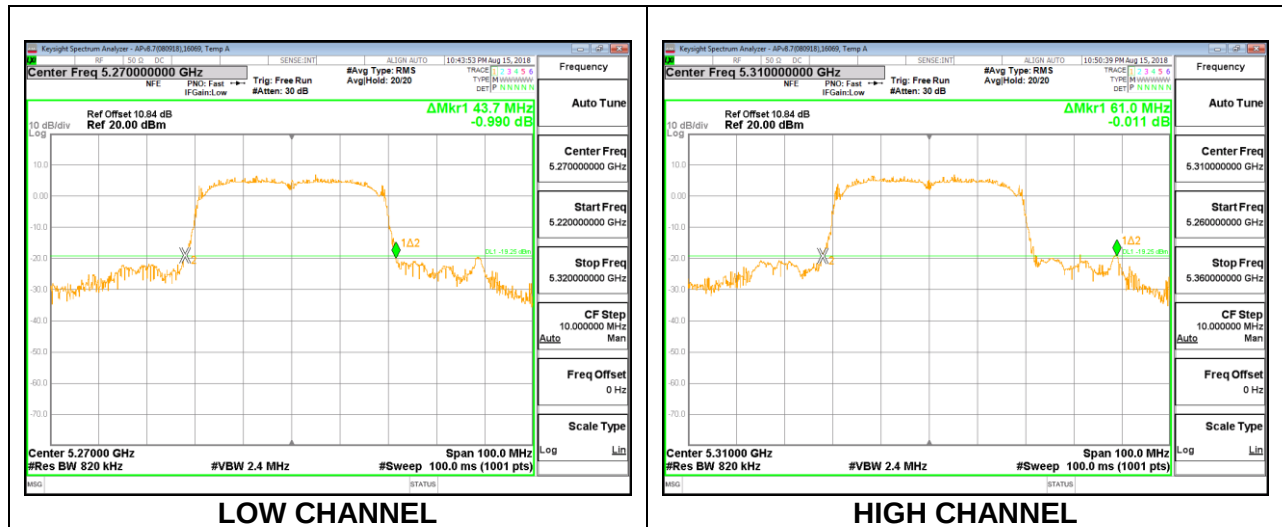
8.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5260	30.15
Mid	5300	28.25
High	5320	24.00



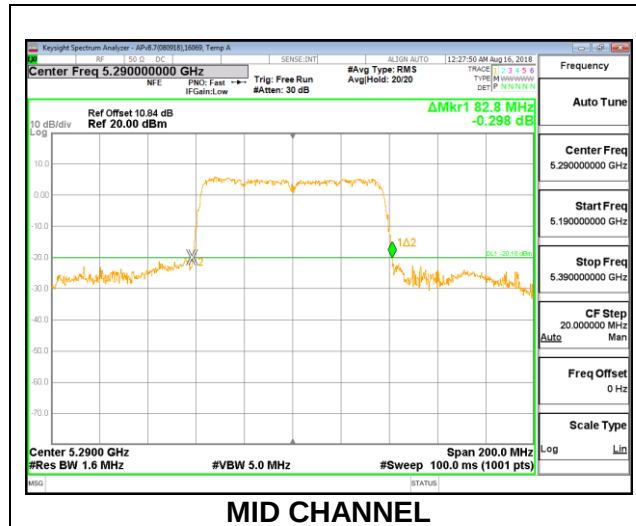
8.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5270	43.70
High	5310	61.00



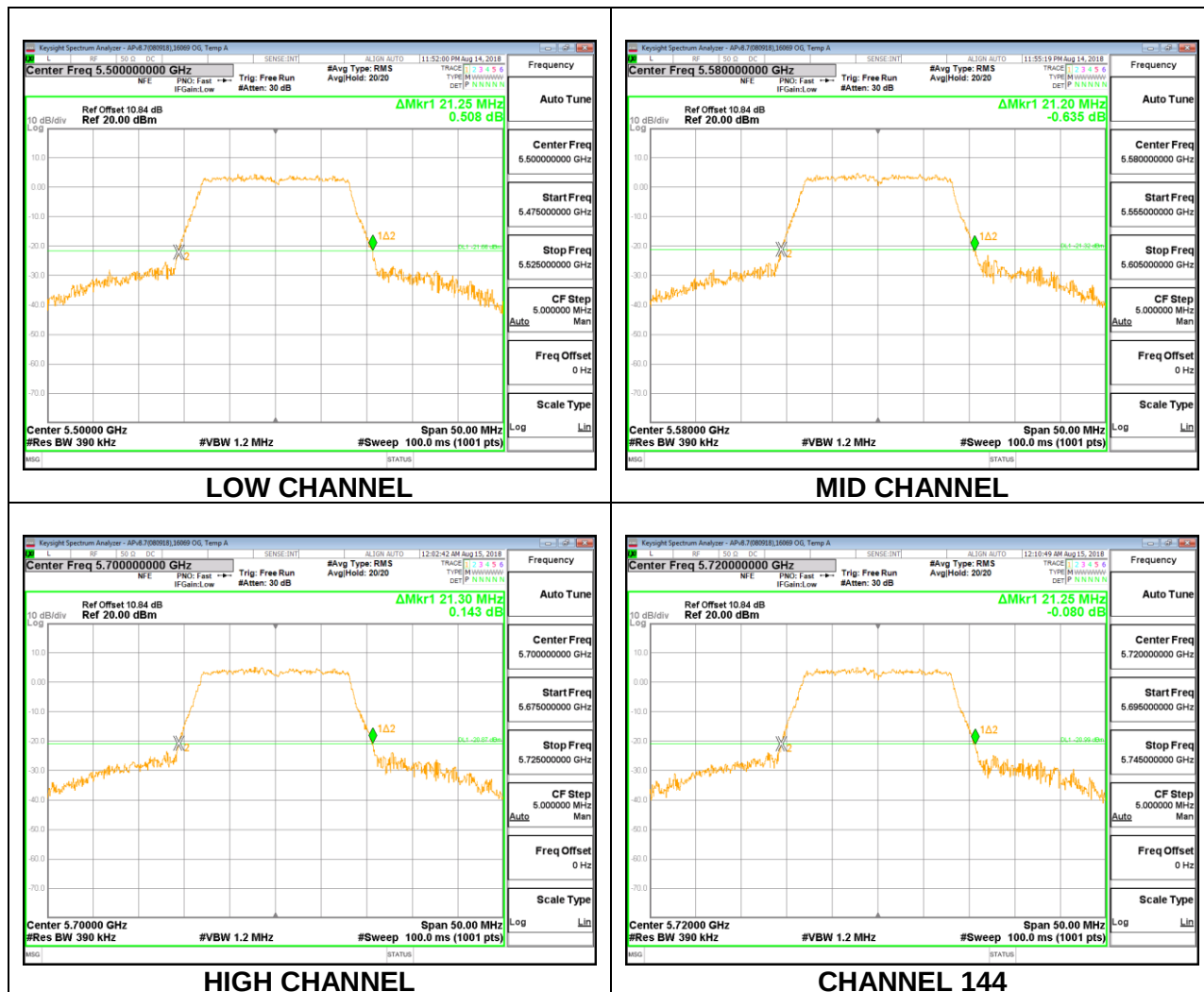
8.2.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5290	82.80



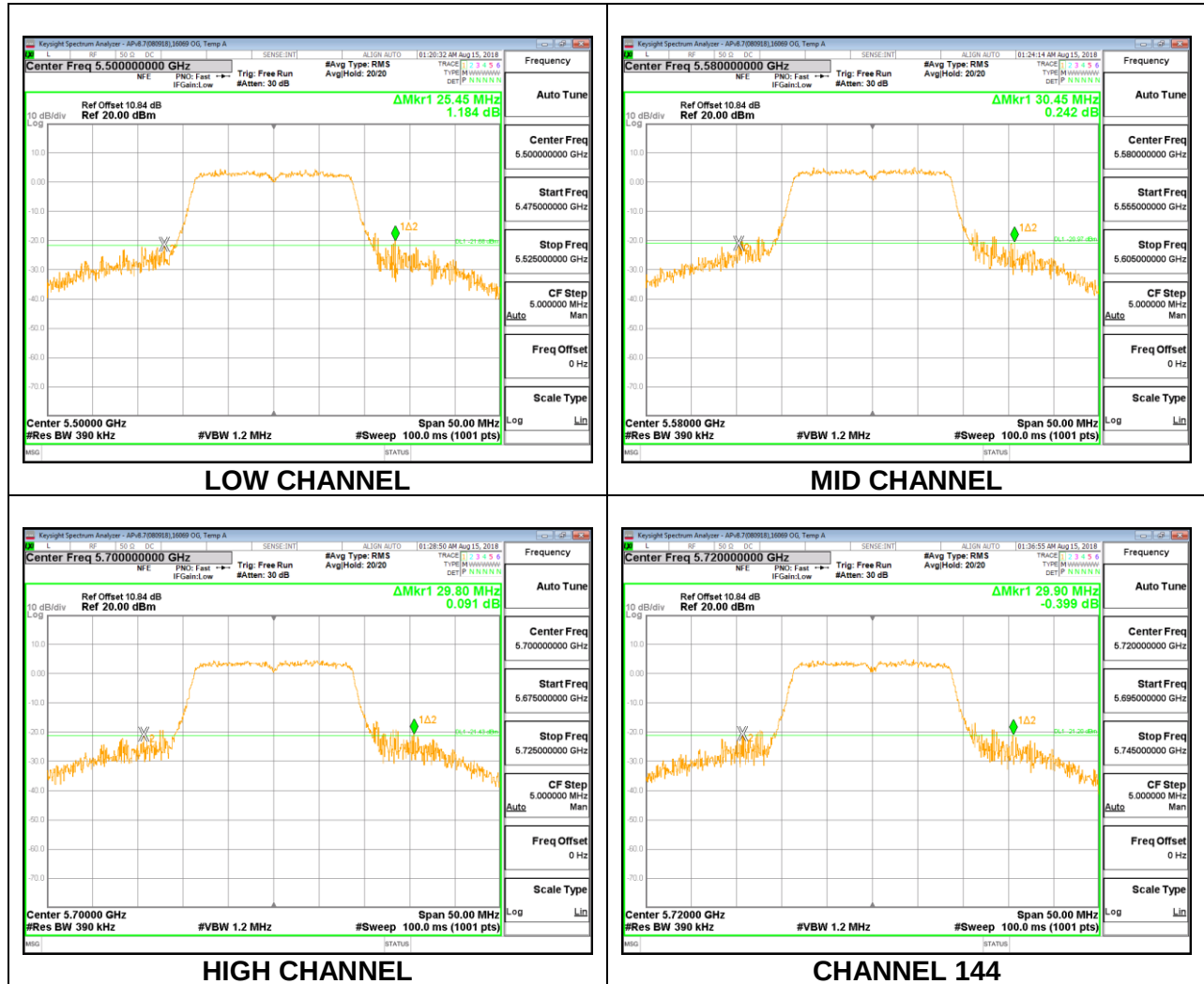
8.2.9. 802.11a MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5500	21.25
Mid	5580	21.20
High	5700	21.30
144	5720	21.25



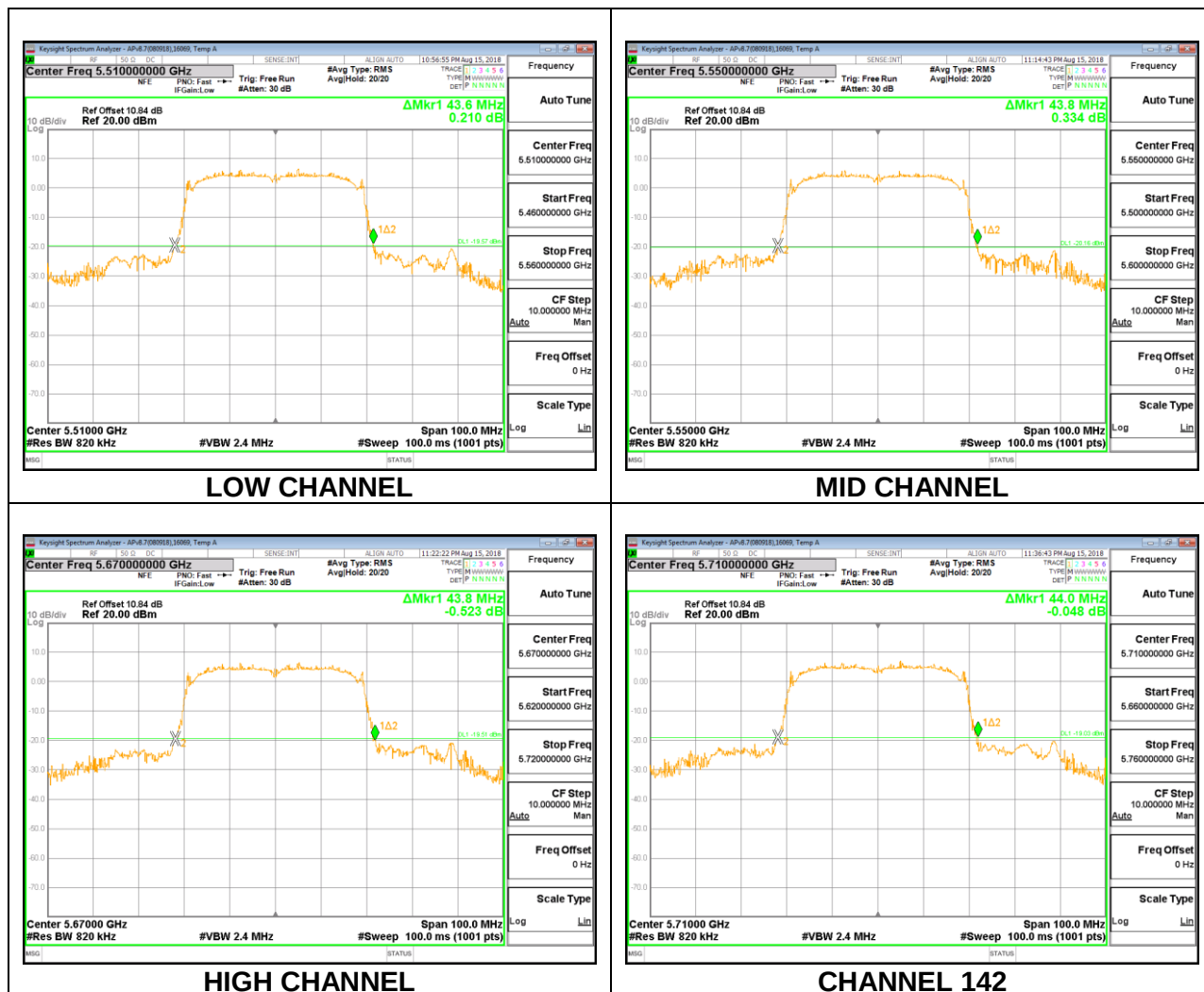
8.2.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5500	25.45
Mid	5580	30.45
High	5700	29.80
144	5720	29.90



8.2.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5510	43.60
Mid	5550	43.80
High	5670	43.80
142	5710	44.00



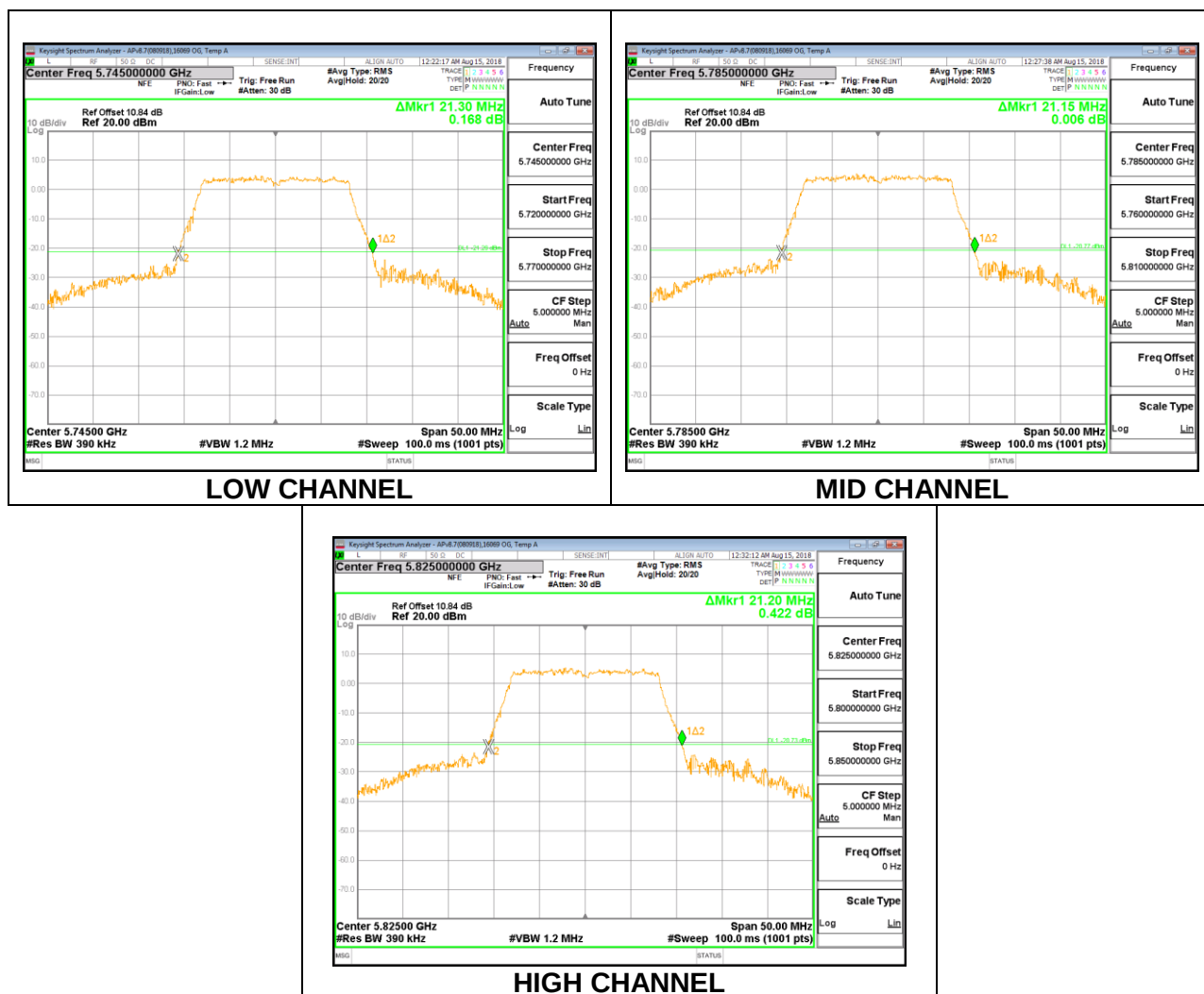
8.2.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5530	87.40
High	5610	90.60
138	5690	82.40



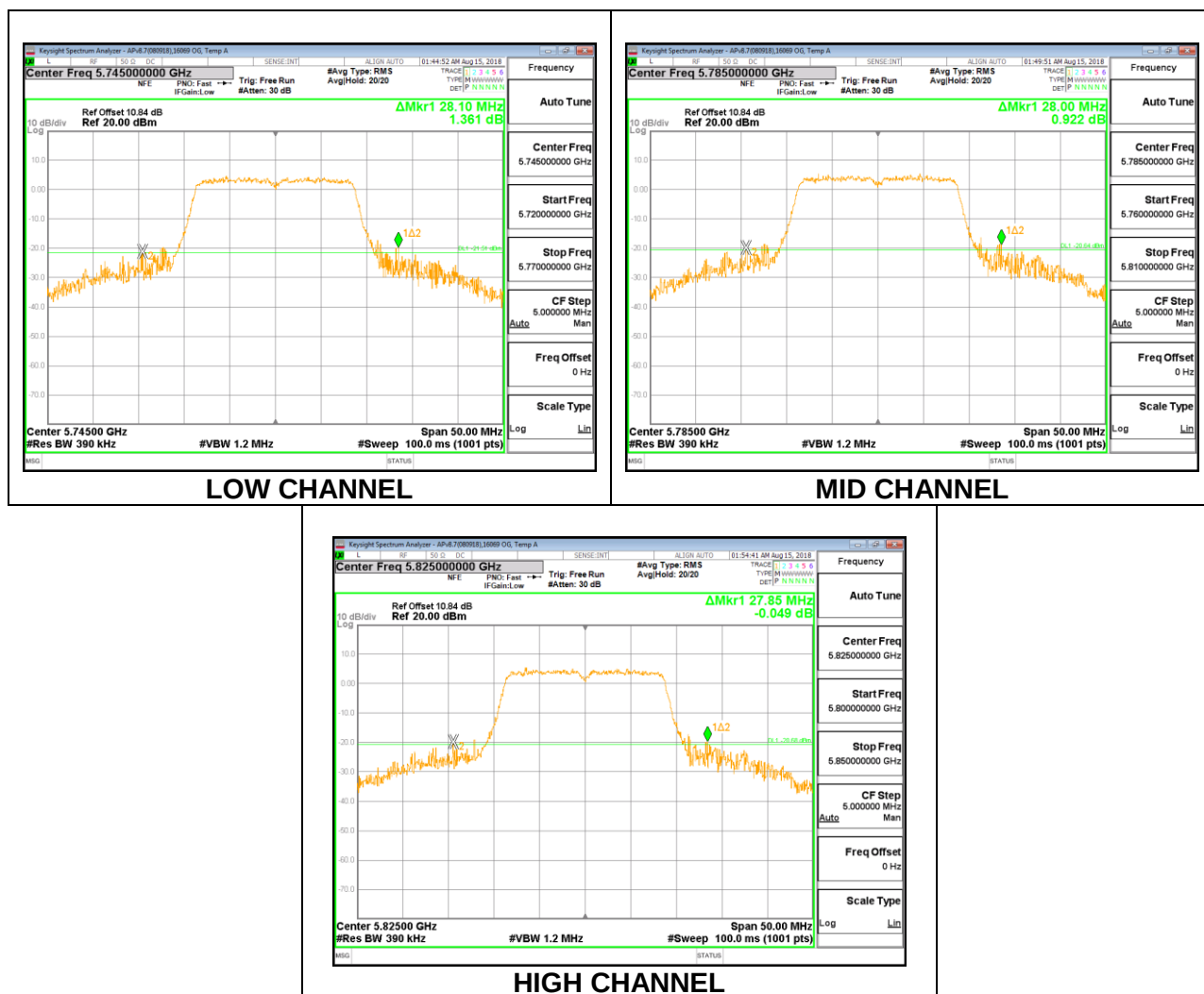
8.2.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5745	21.30
Mid	5785	21.15
High	5825	21.20



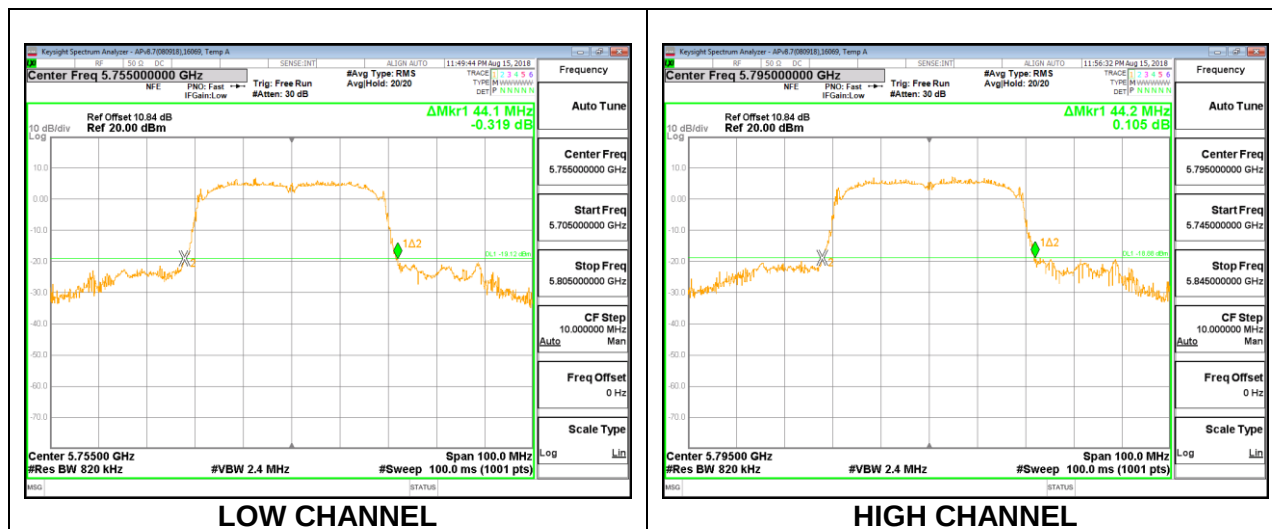
8.2.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5745	28.10
Mid	5785	28.00
High	5825	27.85



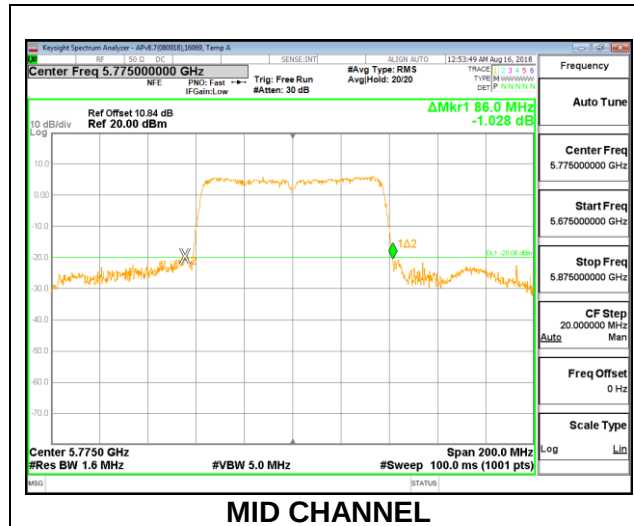
8.2.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency	26dB Bandwidth
	(MHz)	(MHz)
Low	5755	44.10
High	5795	44.20



8.2.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5775	86.00



8.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

8.3.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5180	16.5910
Mid	5200	16.5070
High	5240	16.5580



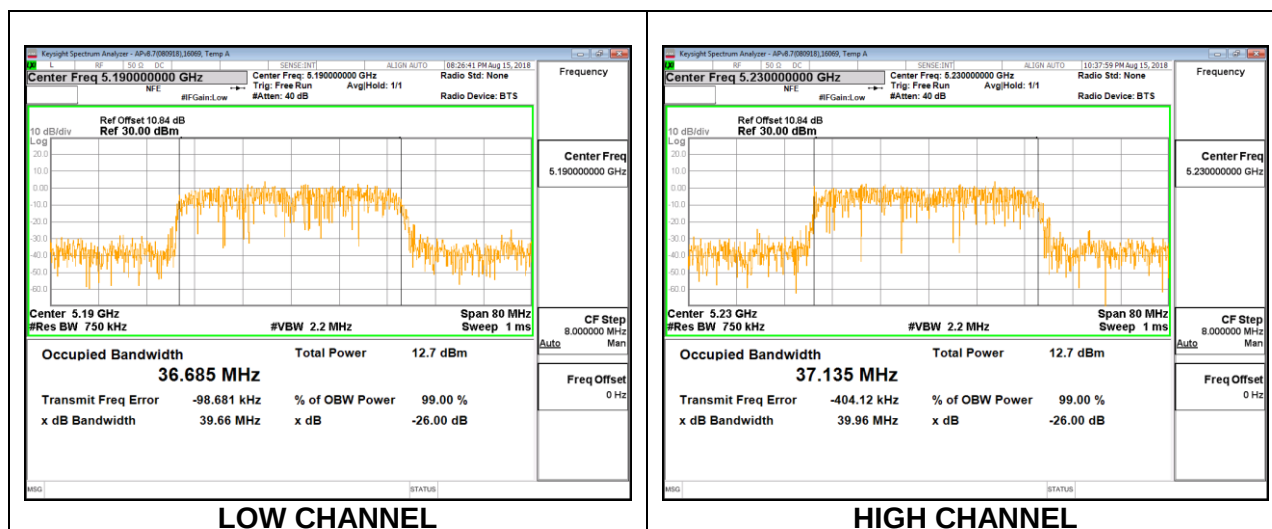
8.3.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5180	17.6760
Mid	5200	17.7440
High	5240	17.7180



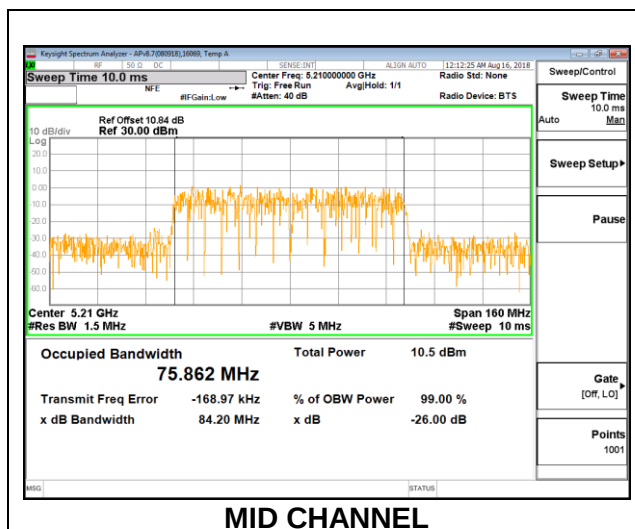
8.3.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5190	36.6850
High	5230	37.1350



8.3.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5210	75.8620



8.3.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5260	16.5620
Mid	5300	16.5260
High	5320	16.5870

