



FCC 47 CFR PART 15 SUBPART E

CERTIFICATION TEST REPORT

For

GPON Terminal

MODEL NUMBER: EchoLife EG8247Q

FCC ID: QISEG8247Q

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Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	10/25/2018	Initial Issue	
V1	11/04/2018	Update the test period, updated and added data in 6.2 chapters, updated limit of 6.3 and 6.4, descriptions, update the test description of the MIMO mode in the 6.3 chapter, updated 7.1 and 7.5 chapters.	Miller Ma
V2	11/06/2018	Updated chapters 6.2 and 6.3 chapters.	Miller Ma



Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	6/26db Bandwidth	FCC 15.407 (a)&(e) RSS-247 Clause 6.2	PASS
2	99% Bandwidth	RSS-Gen Clause 6.6	PASS
3	Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	PASS
4	Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	PASS
5	Antenna Conducted Spurious Emission	FCC 15.407 (b) RSS-247 Clause 6.2	PASS
6	Radiated Bandedge and Spurious Emission	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	PASS
7	Conducted Emission Test For AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	PASS
8	Antenna Requirement	FCC 15.203 RSS-GEN Clause 8.3	PASS
9	Frequency Stability	FCC 15.407 (g)	PASS



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: HUAWEI TECHNOLOGIES CO., LTD.
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Manufacturer Information

Company Name: HUAWEI TECHNOLOGIES CO., LTD.
Address: Administration Building, Huawei Technologies Co., Ltd. Bantian,
Longgang District, Shenzhen, P.R. China, 518129

EUT Description

EUT Name: GPON Terminal
Model: EchoLife EG8247Q
Brand Name: HUAWEI
Sample Status: Normal
Sample ID: 12237049
Sample Received Date: April 13, 2018
Date of Tested: April 30, 2018~ November 02, 2018

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

Tested By:

Checked By:

Miller Ma
Engineer Project Associate

Shawn Wen
Operations Leader

Approved By:

Stephen Guo
Operations Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 789033 D02 v02r01, KDB 662911 D01 v02r01, RSS-GEN Issue 4, RSS-247 Issue 2 and KDB414788 D01 Radiated Test Site v01.

3. FACILITIES AND ACCREDITATIO

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OATS.



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 recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.90dB
Uncertainty for Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB
Uncertainty for Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.52dB
Uncertainty for Radiation Emission test (1GHz to 40GHz)(include Fundamental emission)	5.04dB(1-6GHz)
	5.30dB (6GHz-18Gz)
	5.23dB (18GHz-26Gz)
	5.64dB (26GHz-40Gz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Equipment	GPON Terminal		
EUT Description	The EUT is an GPON Terminal with 2.4GHz and 5GHz WIFI.		
Model Name	EchoLife EG8247Q		
Series M/N:	EchoLife EG8245Q; EchoLife HG8247Q5; EchoLife HG8245Q5.		
Model Difference:	EchoLife EG8245Q: The model name is different, the CATV module is removed and a USB port is removed. EchoLife HG8247Q5: Only model name is different. EchoLife HG8245Q5: The model name is different, the CATV module is removed and a USB port is removed.		
Power Supply	Power Adapter	Input	AC 100~240V, 50~60Hz, 0.8A
		Output	12V,2.0A



5.2. CHANNEL LIST

20 MHz Bandwidth Channel frequencies		
Band	Channel	Frequency (MHz)
UNII-1	36	5180
	40	5200
	44	5220
	48	5240
UNII-2A	52	5260
	56	5280
	60	5300
	64	5320
UNII-2C	100	5500
	104	5520
	108	5540
	112	5560
	116	5580
	120	5600
	124	5620
	128	5640
	132	5660
	136	5680
	140	5700
	144	5720
UNII-3	149	5745
	153	5765
	157	5785
	161	5805
	165	5825



40 MHz Bandwidth Channel frequencies		
Band	Channel	Frequency (MHz)
UNII-1	38	5190
	46	5230
UNII-2A	54	5270
	62	5310
UNII-2C	102	5510
	110	5550
	118	5590
	126	5630
	134	5670
	142	5710
UNII-3	151	5755
	159	5795

80 MHz Bandwidth Channel frequencies		
Band	Channel	Frequency (MHz)
UNII-1	42	5210
UNII-2A	58	5290
UNII-2C	106	5530
	122	5610
	138	5690
UNII-3	155	5775



5.3. THE WORSE CASE CONFIGURATIONS

SISO Mode

UNII-1

The Worse Case Power Setting Parameter under 5150~ 5250MHz Band							
Test Software		QSPR					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		CH 36	CH 40	CH 48	CH 38	CH 46	CH 42
802.11a	2	19	25.5	23.5	N/A		
802.11n HT20	2	19.5	25.5	23.5			
802.11ac HT20	2	19.5	25.5	23.5			
802.11n HT40	2	N/A	N/A	N/A	17	22.5	N/A
802.11ac HT40	2	N/A	N/A	N/A	17	22.5	N/A
802.11ac HT80	2	N/A	N/A	N/A	N/A	N/A	16

UNII-2A

The Worse Case Power Setting Parameter under 5250~ 5350MHz Band							
Test Software		QSPR					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		CH 52	CH 60	CH 64	CH 54	CH 62	CH 58
802.11a	2	21.5	21.5	19.5	N/A		
802.11n HT20	2	21.5	22	19			
802.11ac HT20	2	21.5	22	19.5			
802.11n HT40	2	N/A	N/A	N/A	22	19.5	N/A
802.11ac HT40	2	N/A	N/A	N/A	22	18.5	N/A
802.11ac HT80	2	N/A	N/A	N/A	N/A	N/A	18



UNII-2C

The Worse Case Power Setting Parameter under 5470 ~ 5725MHz Band												
Test Software		QSPR										
Modulation Mode	Transmit Antenna Number	Test Channel										
		NCB: 20MHz				NCB: 40MHz				NCB: 80MHz		
		CH 100	CH 116	CH 140	CH 144	CH 102	CH 110	CH 134	CH 142	CH 106	CH 122	CH 138
802.11a	2	18.5	21.5	18	21.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
802.11n HT20	2	18.5	21.5	18	21.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
802.11ac HT20	2	18.5	21.5	18	21.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
802.11n HT40	2	N/A	N/A	N/A	N/A	16.5	21	19.5	22	N/A	N/A	N/A
802.11ac HT40	2	N/A	N/A	N/A	N/A	16	21	20	22	N/A	N/A	N/A
802.11ac HT80	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	21	22

UNII-3

The Worse Case Power Setting Parameter under 5725~ 5850MHz Band							
Test Software		QSPR					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		CH 149	CH 157	CH 165	CH 151	CH 159	CH155
802.11a	2	22.5	21	22	N/A		
802.11n HT20	2	22.5	21	22			
802.11ac HT20	2	22.5	21	22			
802.11n HT40	2	N/A	N/A	N/A	23.5	22	N/A
802.11ac HT40	2	N/A	N/A	N/A	23.5	22	N/A
802.11ac HT80	2	N/A	N/A	N/A	N/A	N/A	22



MIMO Mode

UNII-1

The Worse Case Power Setting Parameter under 5150~ 5250MHz Band							
Test Software		QSPR					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		CH 36	CH 40	CH 48	CH 38	CH 46	CH 42
802.11a	0&1&2	18.5	22	21.5	N/A		
802.11n HT20	0&1&2	18	23	22.5			
802.11ac HT20	0&1&2	18	23	22.5			
802.11n HT40	0&1&2	N/A	N/A	N/A	16	21	N/A
802.11ac HT40	0&1&2	N/A	N/A	N/A	14	21.5	N/A
802.11ac HT80	0&1&2	N/A	N/A	N/A	N/A	N/A	13

UNII-2A

The Worse Case Power Setting Parameter under 5250~ 5350MHz Band							
Test Software		QSPR					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		CH 52	CH 60	CH 64	CH 54	CH 62	CH 58
802.11a	0&1&2	17	17	17	N/A		
802.11n HT20	0&1&2	16	17	17			
802.11ac HT20	0&1&2	17.5	17	17			
802.11n HT40	0&1&2	N/A	N/A	N/A	19	14.5	N/A
802.11ac HT40	0&1&2	N/A	N/A	N/A	18.5	14.5	N/A
802.11ac HT80	0&1&2	N/A	N/A	N/A	N/A	N/A	13



UNII-2C

The Worse Case Power Setting Parameter under 5470 ~ 5725MHz Band												
Test Software		QSPR										
Modulation Mode	Transmit Antenna Number	Test Channel										
		NCB: 20MHz				NCB: 40MHz				NCB: 80MHz		
		CH 100	CH 116	CH 140	CH 144	CH 102	CH 110	CH 134	CH 142	CH 106	CH 122	CH 138
802.11a	0&1&2	16.5	16	16	16.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
802.11n HT20	0&1&2	17	16	15	16.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
802.11ac HT20	0&1&2	17	16	16	16.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
802.11n HT40	0&1&2	N/A	N/A	N/A	N/A	12.5	18	17.5	17.5	N/A	N/A	N/A
802.11ac HT40	0&1&2	N/A	N/A	N/A	N/A	13	18	18	17.5	N/A	N/A	N/A
802.11ac HT80	0&1&2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	18	18

UNII-3

The Worse Case Power Setting Parameter under 5725~ 5850MHz Band							
Test Software		QSPR					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		CH 149	CH 157	CH 165	CH 151	CH 159	CH 155
802.11a	0&1&2	22	21.5	22	N/A		
802.11n HT20	0&1&2	21	20.5	21			
802.11ac HT20	0&1&2	21	20.5	21			
802.11n HT40	0&1&2	N/A	N/A	N/A	21.5	23	N/A
802.11ac HT40	0&1&2	N/A	N/A	N/A	22	22.5	N/A
802.11ac HT80	0&1&2	N/A	N/A	N/A	N/A	N/A	17.5

Remarks: EUT support for diversity and CDD MIMO Transmission, 802.11b only supports SISO mode ,all modes and antennas are pre-scanned, antenna 0 is worst for SISO mode worst case, 0&1&2 is worst case for MIMO mode.

For MIMO mode 2TX and 3TX single Chain power settings are the same, so 3TX mode covers 2TX mode.



5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
0	5180-5320	Omni-Directional	2
	5475-5725	Omni-Directional	2
	5745-5825	Omni-Directional	2

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	5180-5320	Omni-Directional	2
	5475-5725	Omni-Directional	2
	5745-5825	Omni-Directional	2

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
2	5180-5320	Omni-Directional	2
	5475-5725	Omni-Directional	2
	5745-5825	Omni-Directional	2

Directional gain				
Mode	Frequency (MHz)	Max Antenna Gain (dBi)	For power measurements Directional gain Gain (dBi)	For power spectral density (PSD) measurements Gain (dBi)
SISO	5180-5320	2	2	2
CDD 2TX	5475-5725	2	2	5
CDD 3TX	5475-5725	2	2	6.77
Note : Directional gain = GANT + Array Gain For power spectral density (PSD) measurements on all devices, Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB. For power measurements on IEEE 802.11 devices, 1,2 Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$; Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT}; Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.				



Test Mode	Transmit and Receive Mode	Description
802.11a	3TX, 3RX	Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna.
802.11n HT20	3TX, 3RX	Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna.
802.11n HT40	3TX, 3RX	Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna.
802.11ac HT20	3TX, 3RX	Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna.
802.11ac HT40	3TX, 3RX	Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna.
802.11ac HT80	3TX, 3RX	Antenna 0, Antenna 1 and Antenna 2 can be used as transmitting/receiving antenna.



5.5. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	23 ~ 28°C
Voltage :	VL	N/A
	VN	AC 120V/60Hz
	VH	N/A

Note: VL= Lower Extreme Test Voltage
VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature



5.6. WORST-CASE CONFIGURATIONS

IEE Std. 802.11	Modulation Technology	Modulation Type	Data Rate (Mbps)	Worst Case (Mbps)
a	OFDM	BPSK, QPSK, 16QAM, 64QAM	54/48/36/24/18/12/9/6	6

IEE Std. 802.11	Modulation Technology	Modulation Type	Data Rate	Worst Case
n HT20	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS23)	MCS0
n HT40	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS23)	MCS0

IEE Std. 802.11	Modulation Technology	Modulation Type	Data Rate	Worst Case
ac HT20	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS9)	MCS0
ac HT40	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS9)	MCS0
ac HT80	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS9)	MCS0



5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	ThinkPad	T460S	SL10K24796 JS
2	Telephone	TCL	HCD868	--
3	TV	SHARP	LCD-40DS72	0878505917102
4	Media Converter	Youke	YKF2300-MLC-5M	--
5	Fash Disk	Kingston	DTSE9	--
6	Fash Disk	Kingston	DTSE9	--

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	LAN	RJ45	Unshielded	6	--
2	RJ45	RJ45	Unshielded	6	--
3	CATV	CATV	Shielded	7	--
4	Optical	Optical	Unshielded	6	--

ACCESSORY

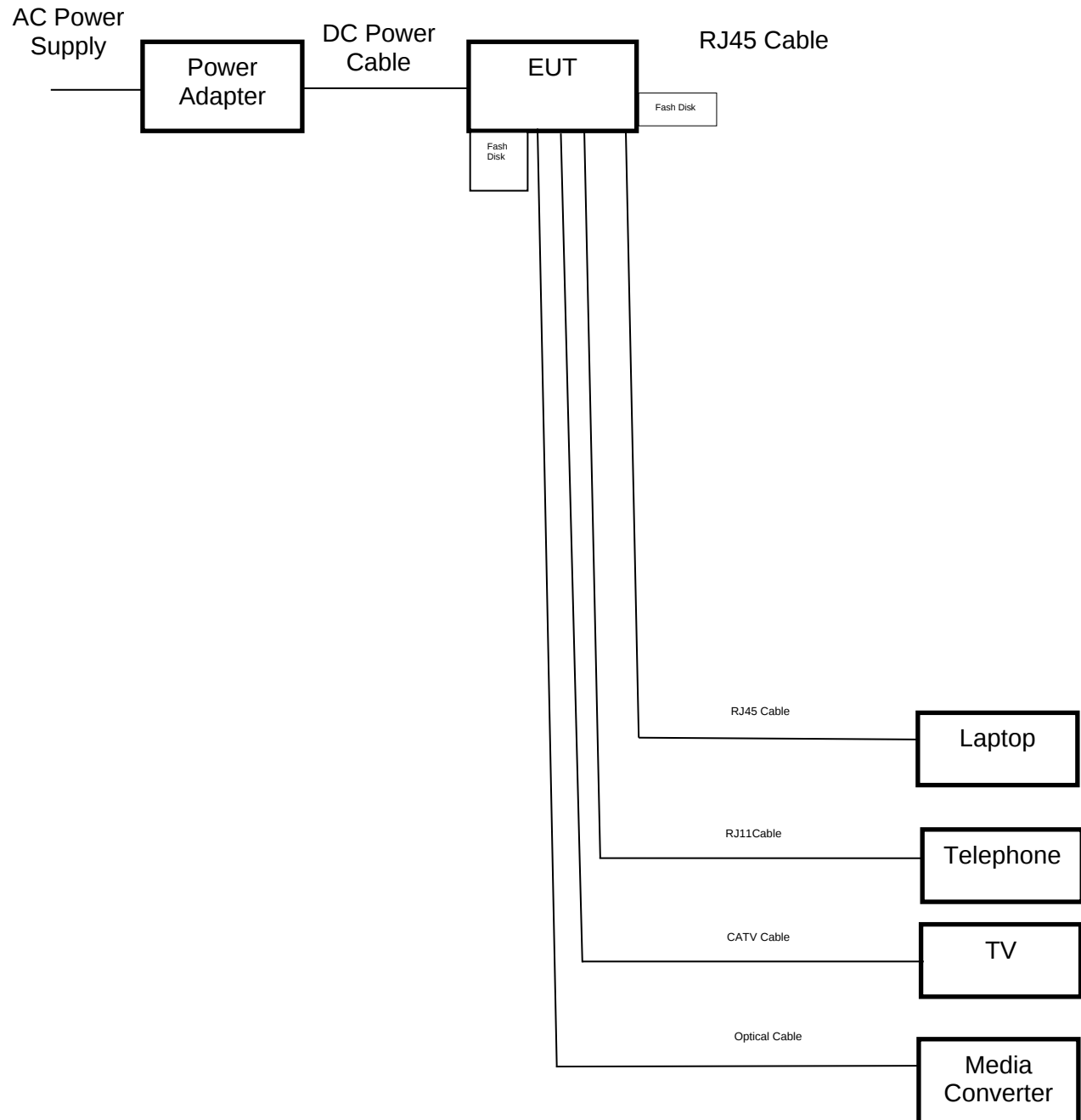
Item	Equipment	Brand Name	Model Name	Remarks
1	POWER ADAPTER	HUAWEI	120200U7W	Input: AC 100~240V, 50~60Hz, 0.8A Output: 12V,2.0A

Note: POWER ADAPTER is supplied by SHENZHEN HUNTKEY ELECTRIC CO., LTD or DONGGUANFUHUA ELECTRIC CO., LTD.

TEST SETUP

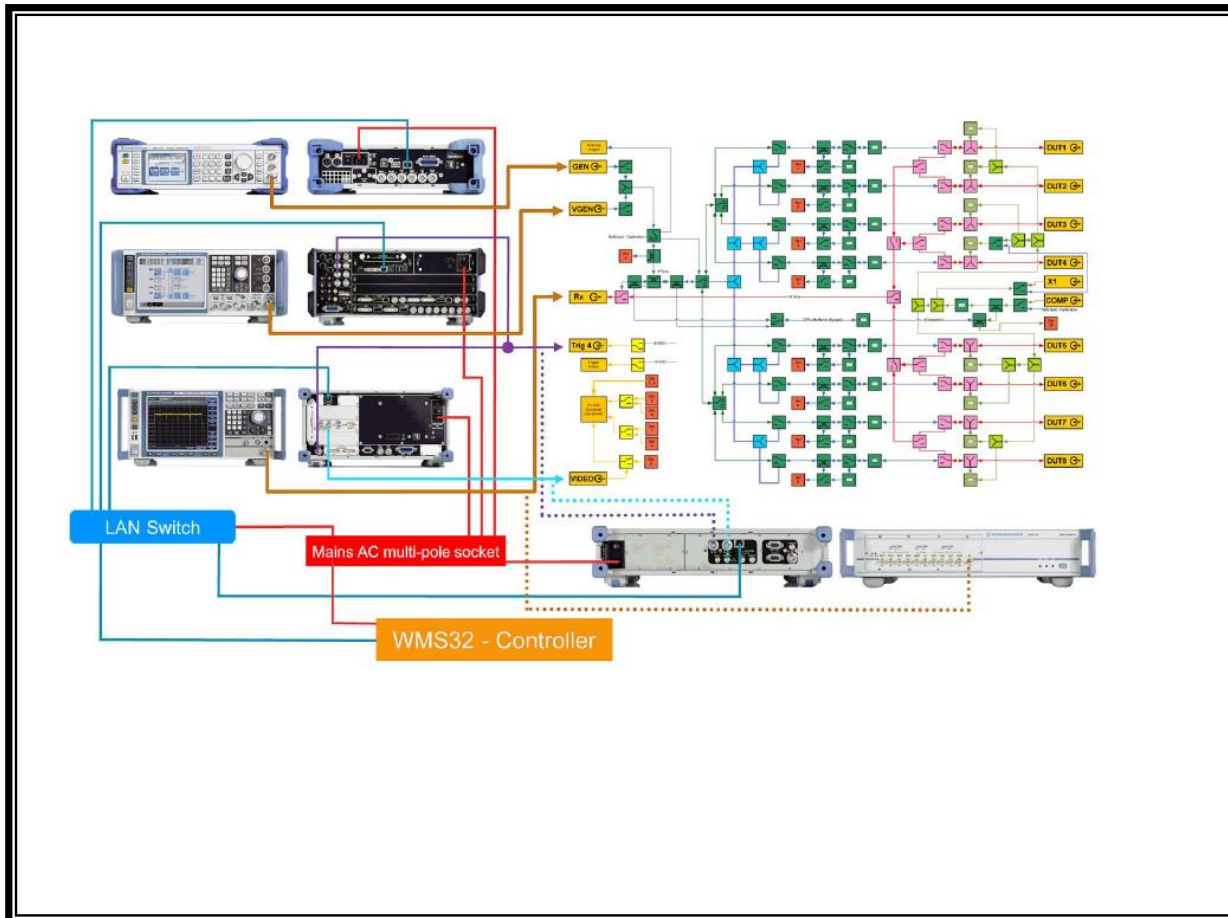
The EUT can work in engineering mode with software through a Laptop.

SETUP DIAGRAM FOR TESTS



5.8. TEST SYSTEM CONFIGURATION

R&S TS 8997 Test System



**5.9. MEASURING INSTRUMENT AND SOFTWARE USED**

Conducted Emissions						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	EMI Test Receiver	R&S	ESR3	101961	Dec.12,2017	Dec.11,2018
☒	Two-Line V- Network	R&S	ENV216	101983	Dec.12,2017	Dec.11,2018
Software						
Used	Description		Manufacturer	Name		Version
☒	Test Software for Conducted disturbance		UL	Antenna port		Ver. 7.2
Radiated Emissions						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	MXE EMI Receiver	KESIGHT	N9038A	MY56400 036	Dec.12,2017	Dec.11,2018
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jan.09, 2016	Jan.09, 2019
☒	Preamplifier	HP	8447D	2944A090 99	Dec.12,2017	Dec.11,2018
☒	EMI Measurement Receiver	R&S	ESR26	101377	Dec.12,2017	Dec.11,2018
☒	Signal Analyzer	R&S	FSV40	A1512015	Dec.12,2017	Dec.11,2018
☒	Horn Antenna	TDK	HRN-0118	130939	Jan. 09, 2016	Jan. 09, 2019
☒	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	Jan.06, 2016	Jan.06, 2019
☒	Preamplifier	TDK	PA-02-0118	TRS-305- 00066	Dec.12,2017	Dec.11,2018
☒	Preamplifier	TDK	PA-02-2	TRS-307- 00003	Dec.12,2017	Dec.11,2018
☒	Preamplifier	TDK	PA-02-3	TRS-308- 00002	Dec.12,2017	Dec.11,2018
☒	Loop antenna	Schwarzbeck	1519B	00008	Mar. 26, 2016	Mar. 26, 2019
Software						
Used	Description		Manufacturer	Name		Version
☒	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1



ANTENNA PORT (R&S TS 8997 Test System)						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Power sensor, Power Meter	R&S	OSP-B157W8	100921	Apr.28,2018	Apr.27,2019
☒	Vector Signal Generator	R&S	SMBV100A	261637	Dec.12,2017	Dec.11,2018
☒	Signal Generator	R&S	SMB100A	178553	Dec.12,2017	Dec.11,2018
☒	Signal Analyzer	R&S	FSV40	A1512015	Dec.12,2017	Dec.11,2018
Software						
Used	Description	Manufacturer	Name		Version	
☒	For R&S TS 8997 Test System	Rohde & Schwarz	VMS32		V10.38	
Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	Keysight	N9030A	MY55410 512	Dec.12,2017	Dec.11,2018



6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

RESULTS

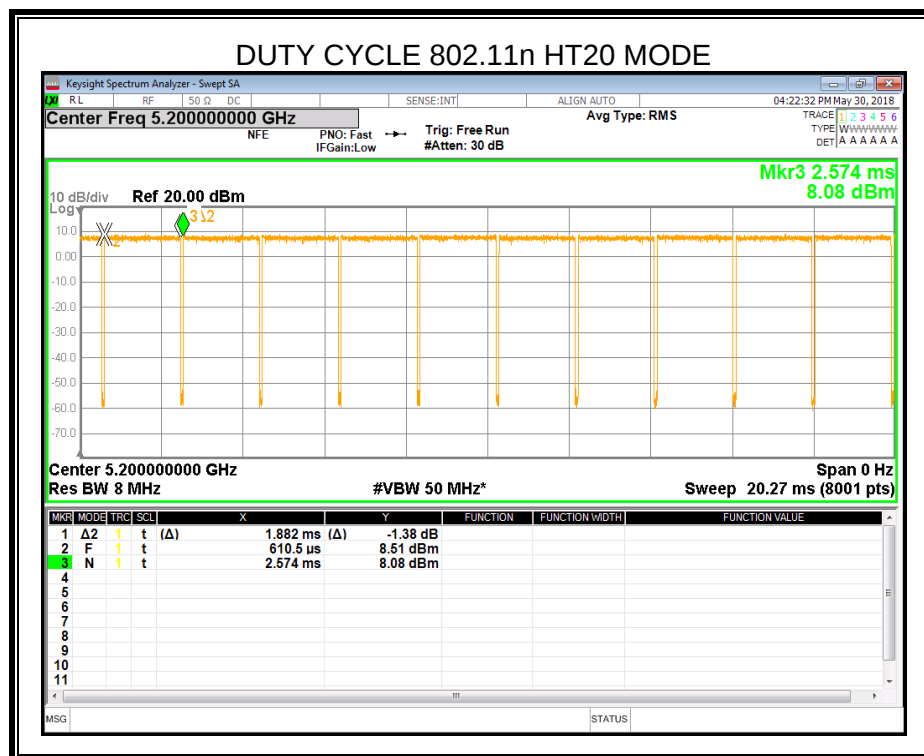
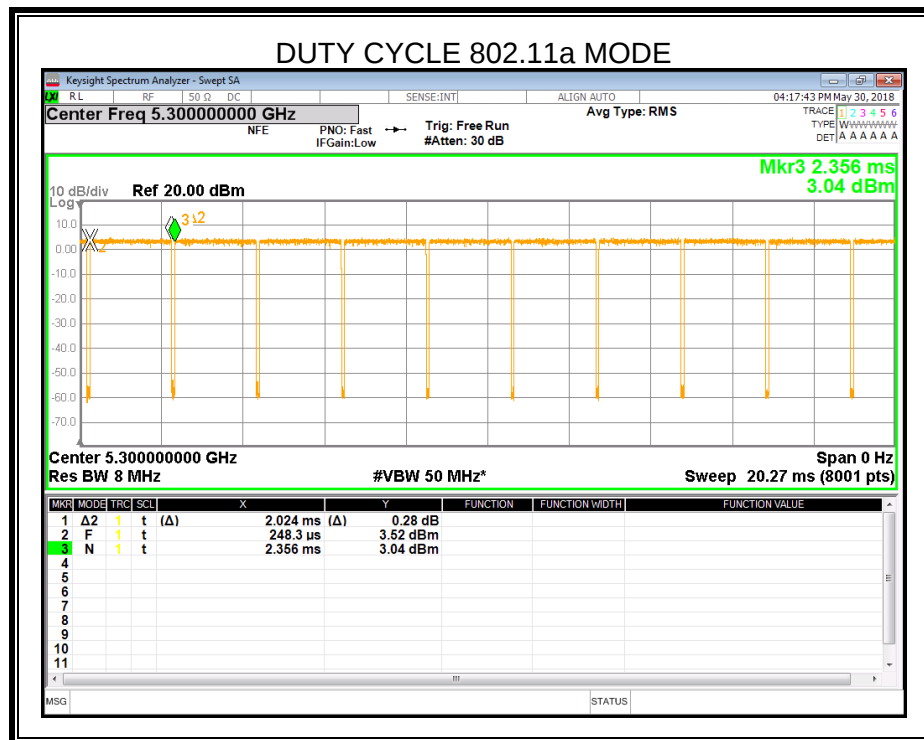
ANTENNA2

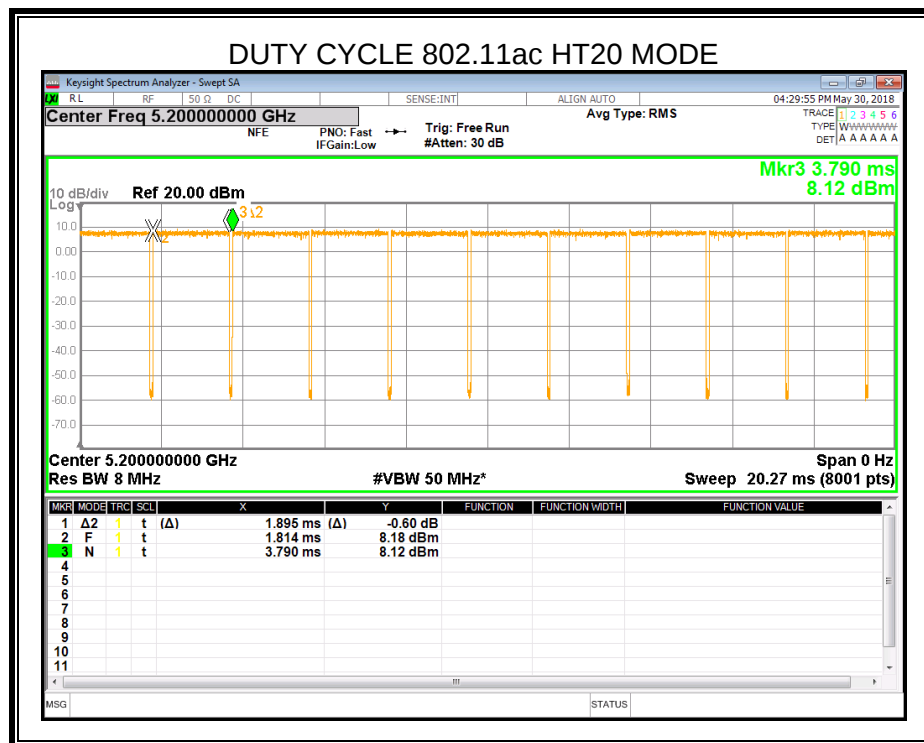
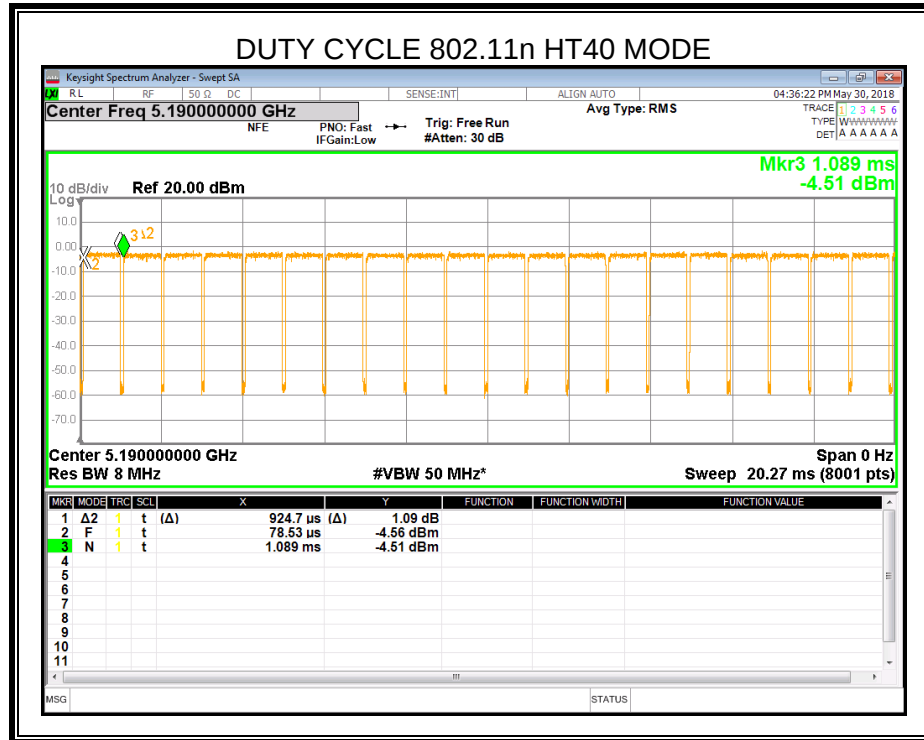
Mode	ON Time (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (KHz)	Final setting For VBW (KHz)
11a	2.024	2.108	0.96028847	96	0.18	0.49	0.5
11n HT20	1.882	1.964	0.95849248	96	0.18	0.53	1
11n HT40	0.925	1.010	0.91584158	92	0.38	1.08	2
11ac HT20	1.895	1.976	0.95900809	96	0.18	0.53	1
11ac HT40	0.930	1.009	0.92170465	92	0.35	1.08	2
11ac HT80	0.448	0.527	0.85009487	85	0.71	2.23	3

Note: Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle(Linear)

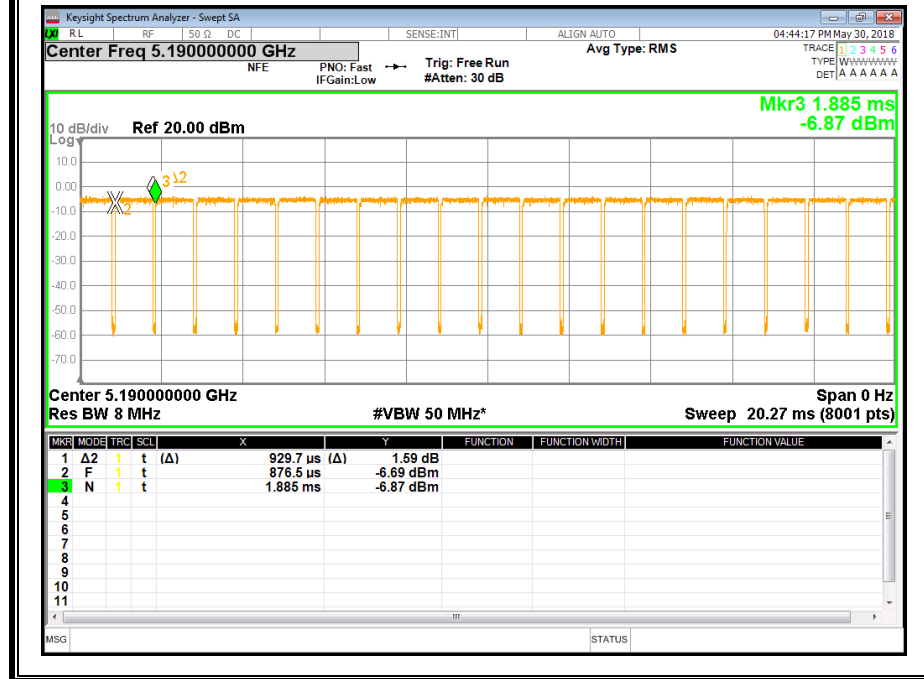
Antenna 0, Antenna 1 and Antenna 2 has the same duty cycle, only Antenna 2 data show here.



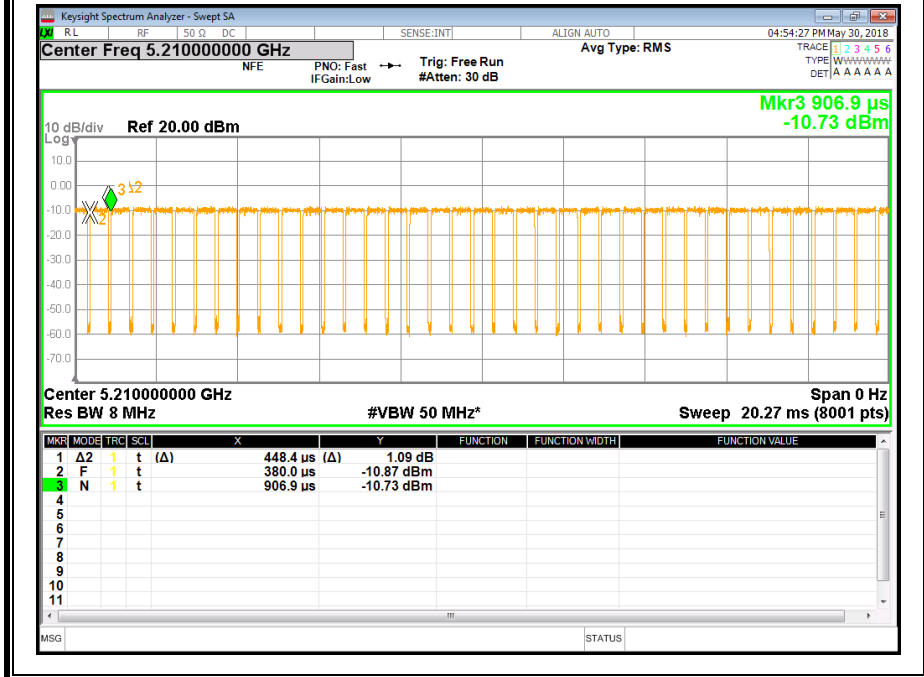




DUTY CYCLE 802.11ac HT40 MODE



DUTY CYCLE 802.11ac HT80 MODE





6.2. 6/26/99% dB BANDWIDTH

LIMITS

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	26 dB Bandwidth	5250-5350
	26 dB Bandwidth	For FCC:5470-5725 For IC:5470-5600 5650-5725
	Minimum 500kHz 6dB Bandwidth	5725-5850

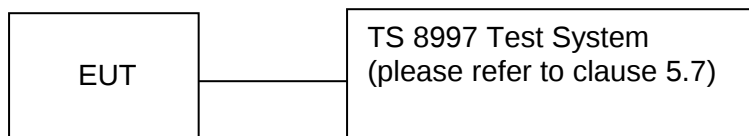
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth: RBW=100kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth. For 99% occupied bandwidth: approximately 1%~5% of the emission bandwidth.
VBW	For 6dB Bandwidth : VBW=300kHz For 26dB Bandwidth : $\geq 3\text{RBW}$ For 99% occupied bandwidth : $\geq >3\text{RBW}$
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB and 99% occupied bandwidth relative to the maximum level measured in the fundamental emission.

TEST SETUP





RESULTS

Note: For 99% occupied bandwidth, both SISO mode and MIMO mode have been tested, The data of SISO mode is worse case The power transmitted by a single chain in MIMO mode is smaller than that in SISO mode, only the worst data (SISO mode) recorded in the report.

TEST PLOT FOR ANTENNA 2

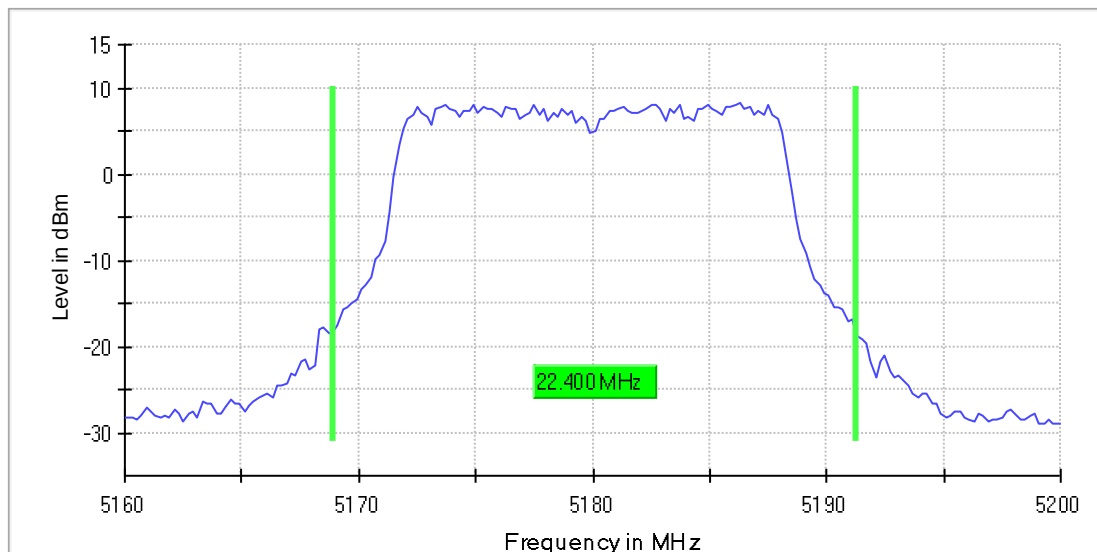
6.2.1. 802.11a SISO MODE

6.2.1.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5180.000000	22.400000	---	---	5168.900000	5191.300000	8.2

(DUT Frequency (MHz)	Result
5180.000000	PASS

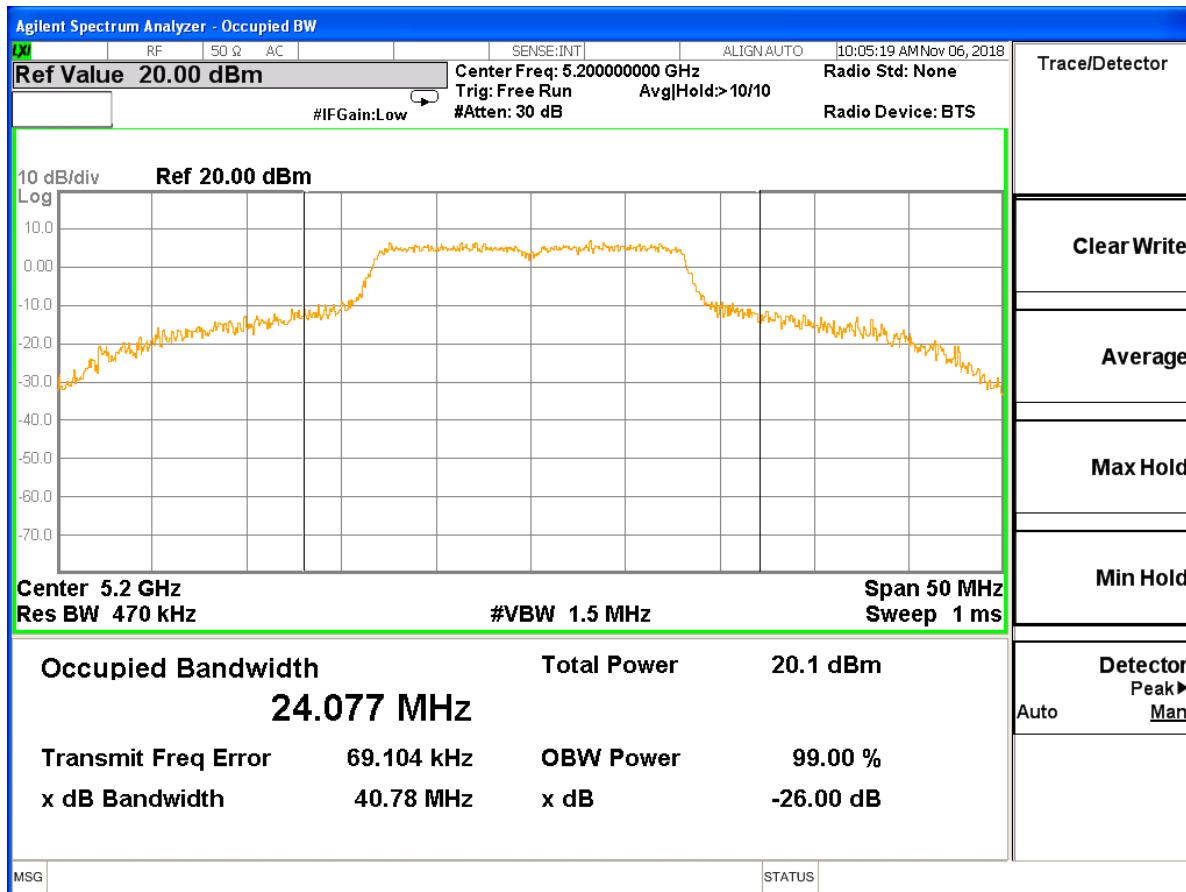




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)
5200.000000	40.78	---	---

DUT Frequency (MHz)	Result
5200.000000	PASS

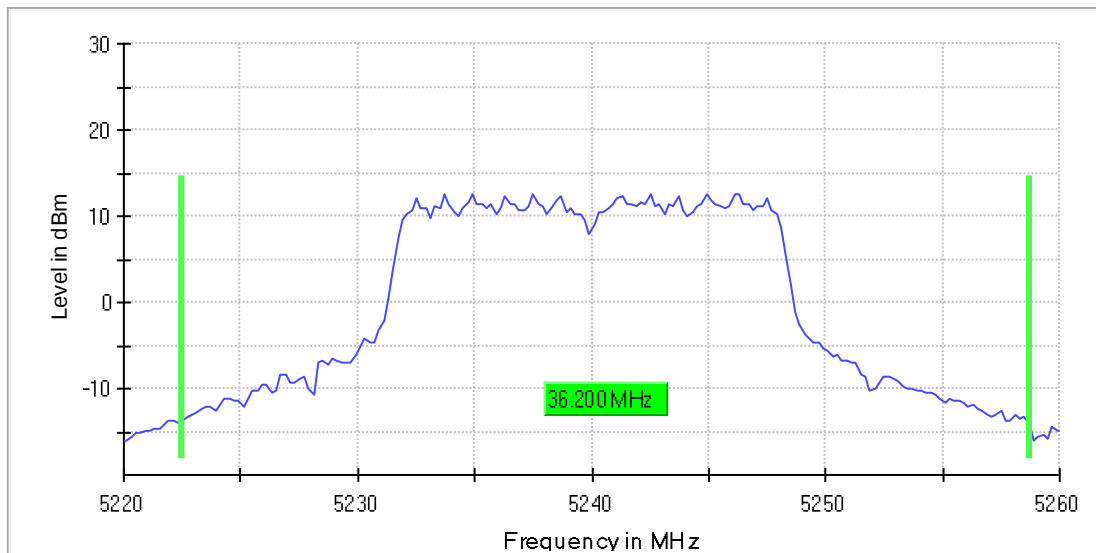




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	36.200000	---	---	5222.500000	5258.700000

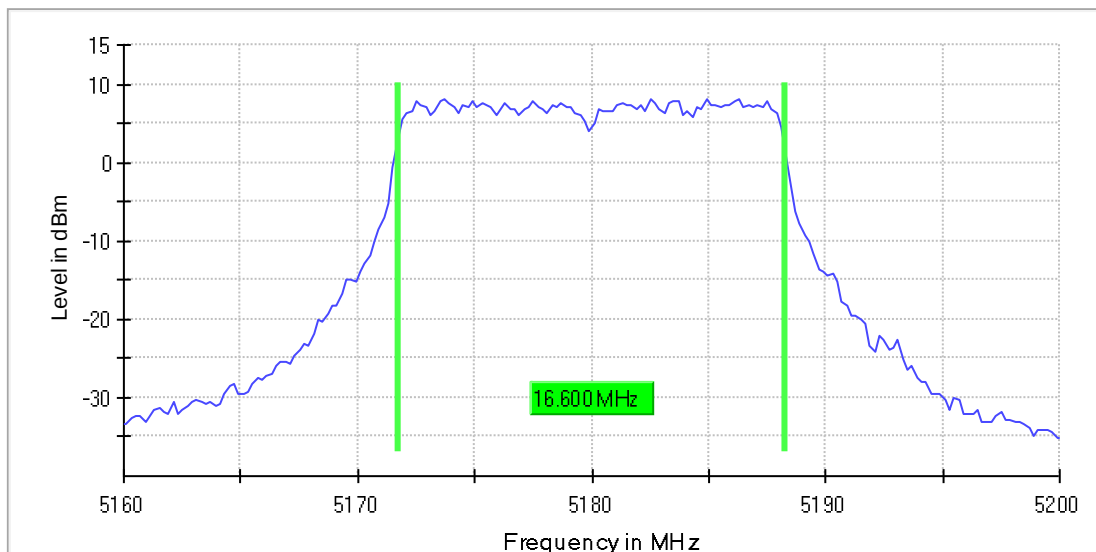
DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	12.6	PASS





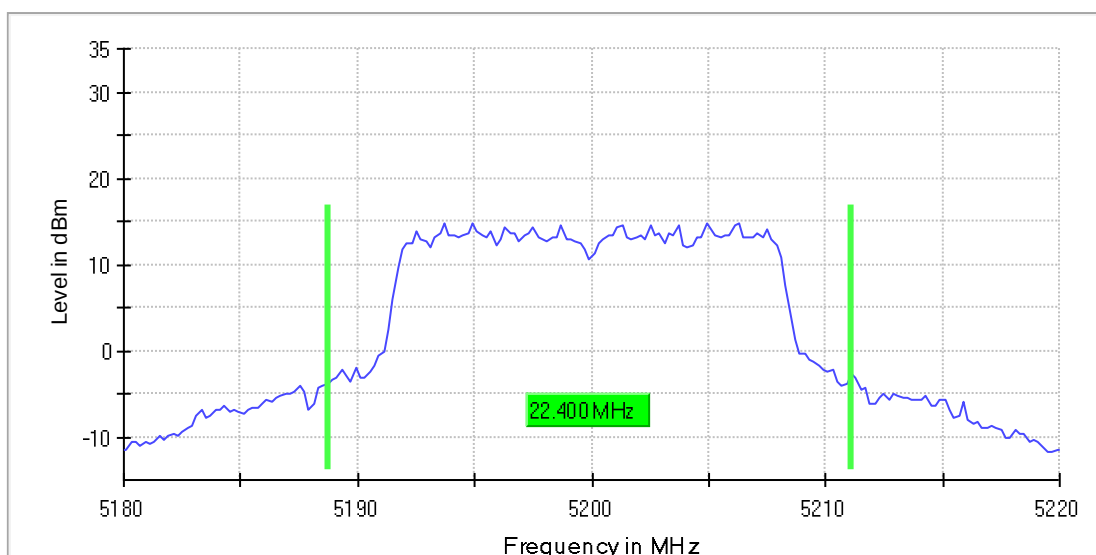
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5180.000000	16.600000	---	---	5171.700000	5188.300000	PASS



99 % Bandwidth

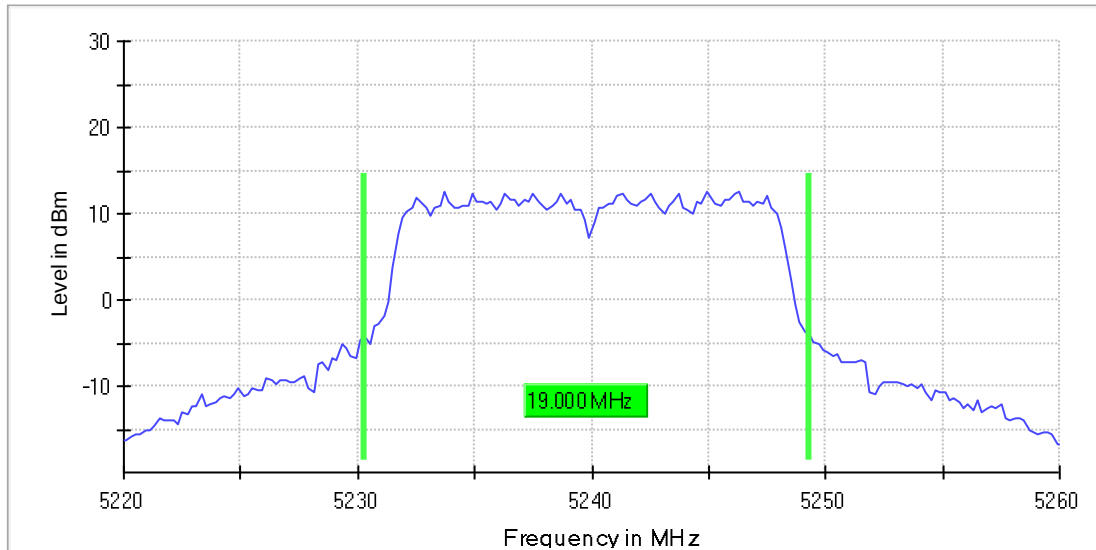
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5200.000000	22.400000	---	---	5188.700000	5211.100000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5240.000000	19.000000	---	---	5230.300000	5249.300000	PASS



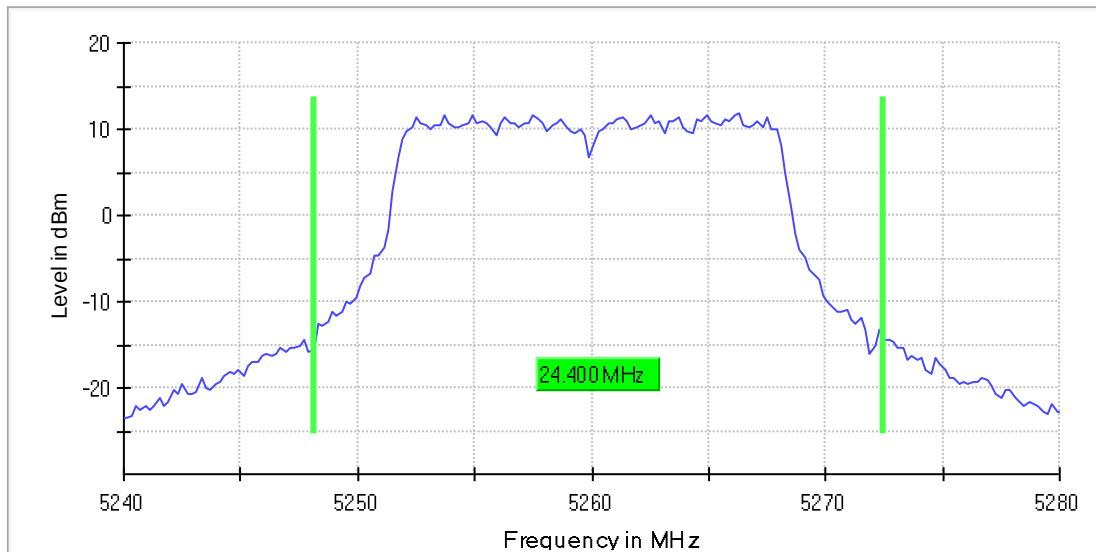


6.2.1.1. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5260.000000	24.400000	---	---	5248.100000	5272.500000	11.8

DUT Frequency (MHz)	Result
5260.000000	PASS

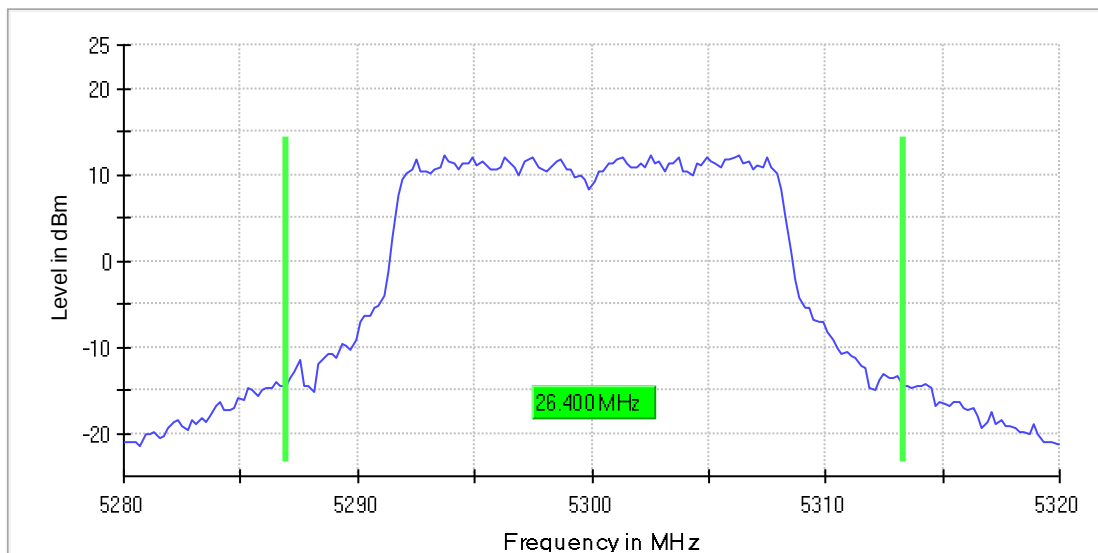




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5300.000000	26.400000	---	---	5286.900000	5313.300000	12.2

DUT Frequency (MHz)	Result
5300.000000	PASS

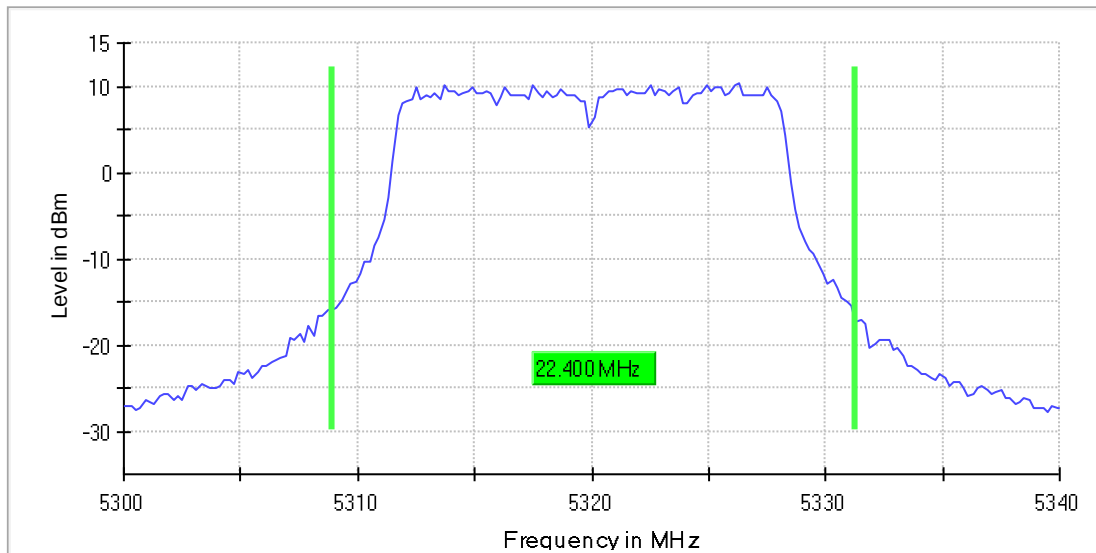




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5320.000000	22.400000	---	---	5308.900000	5331.300000	10.3

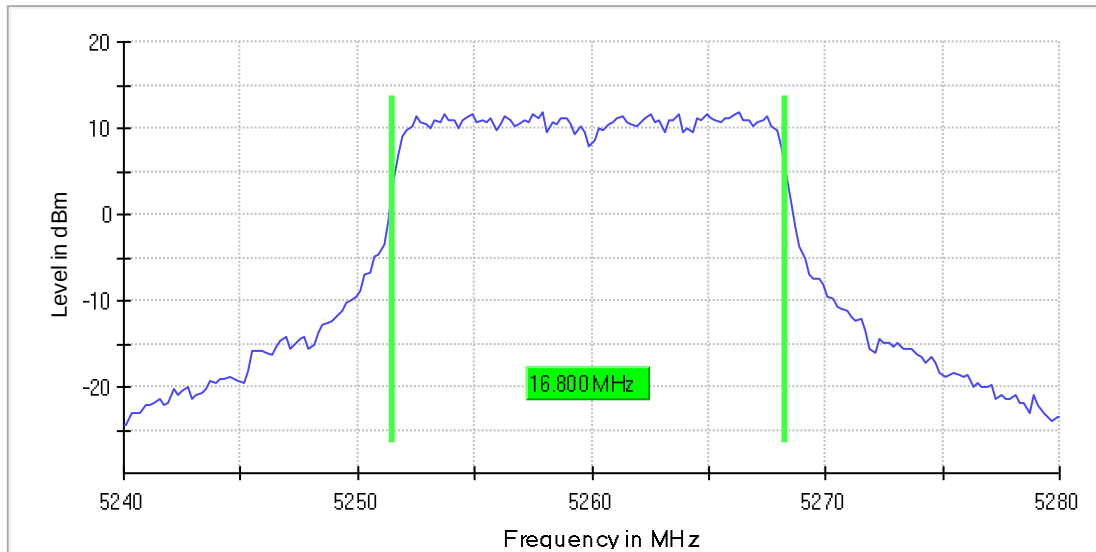
DUT Frequency (MHz)	Result
5320.000000	PASS





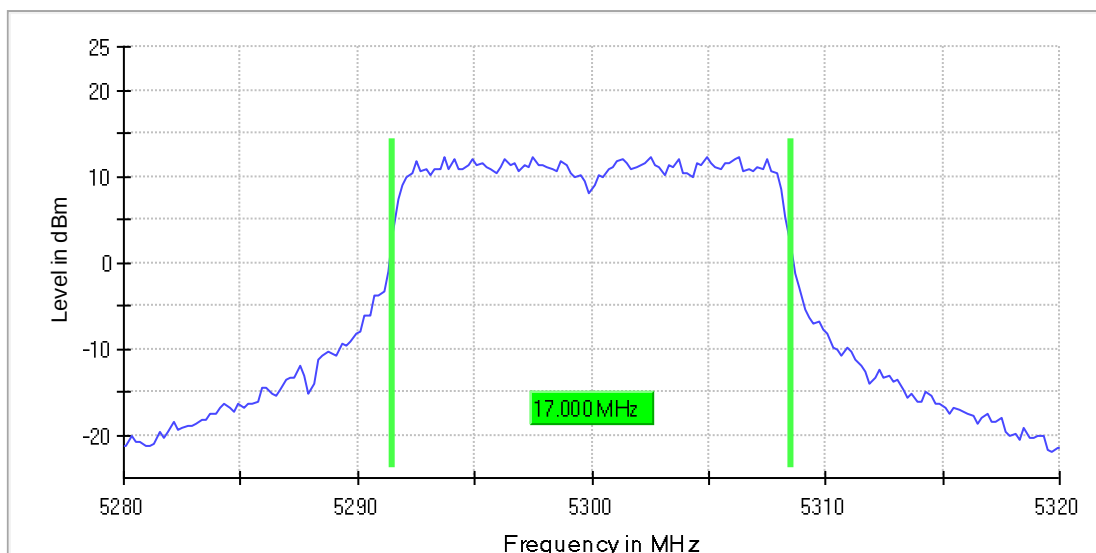
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5260.000000	16.800000	---	---	5251.500000	5268.300000	PASS



99 % Bandwidth

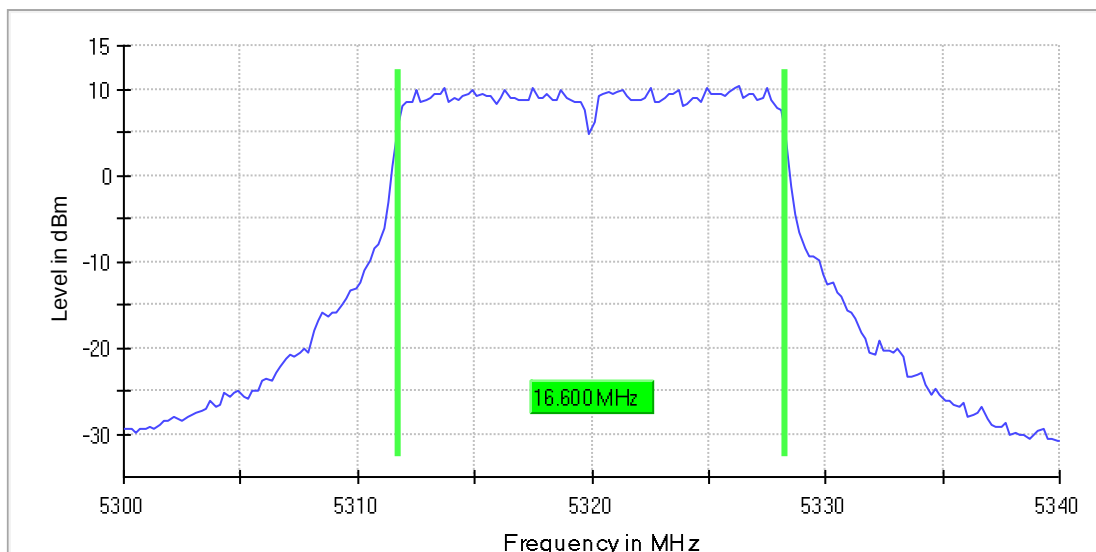
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5300.000000	17.000000	---	---	5291.500000	5308.500000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5320.000000	16.600000	---	---	5311.700000	5328.300000	PASS



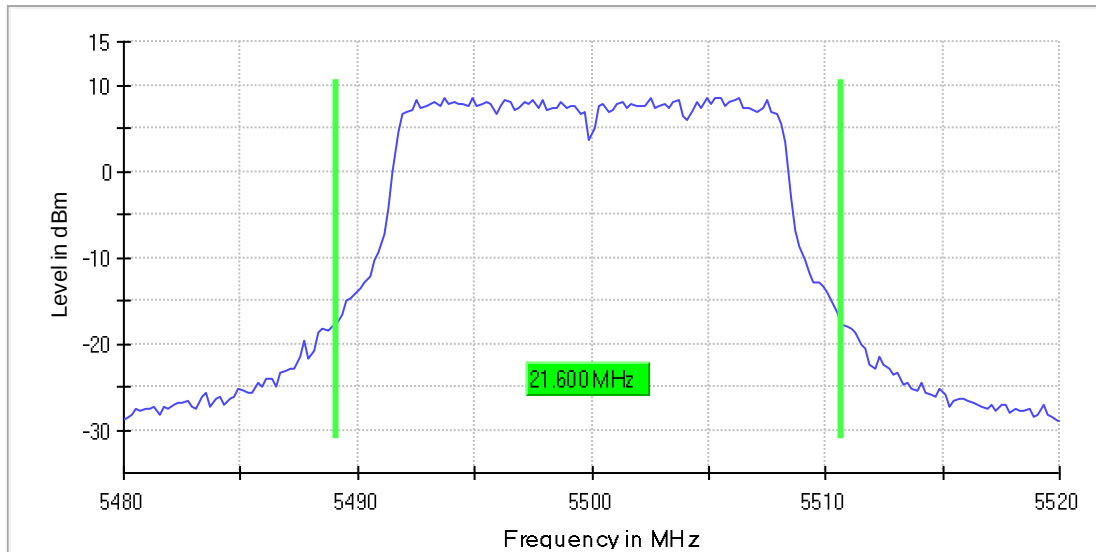


6.2.1.2. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5500.000000	21.600000	---	---	5489.100000	5510.700000	8.6

DUT Frequency (MHz)	Result
5500.000000	PASS

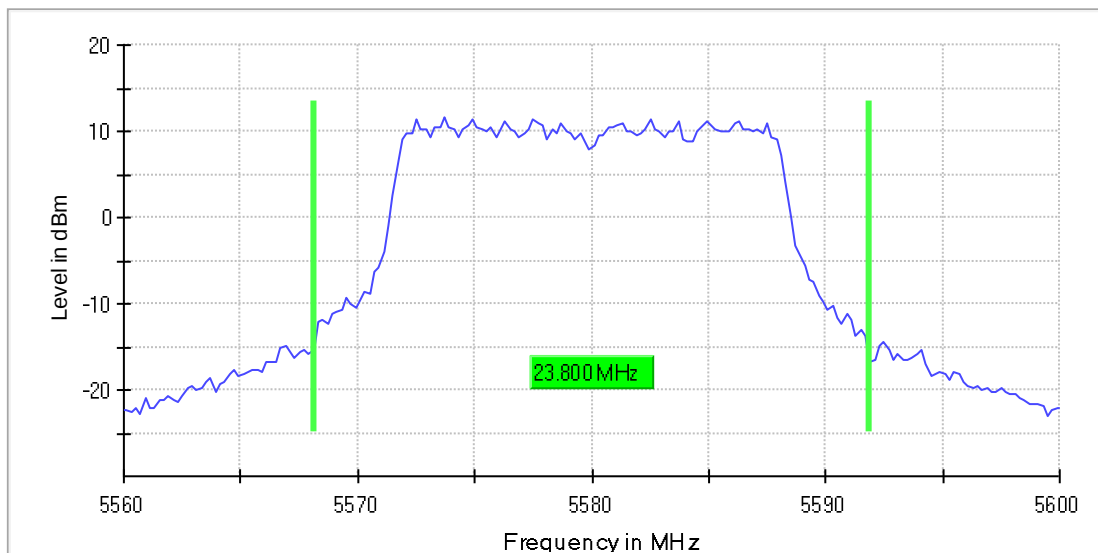




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5580.000000	23.800000	---	---	5568.100000	5591.900000	11.6

DUT Frequency (MHz)	Result
5580.000000	PASS

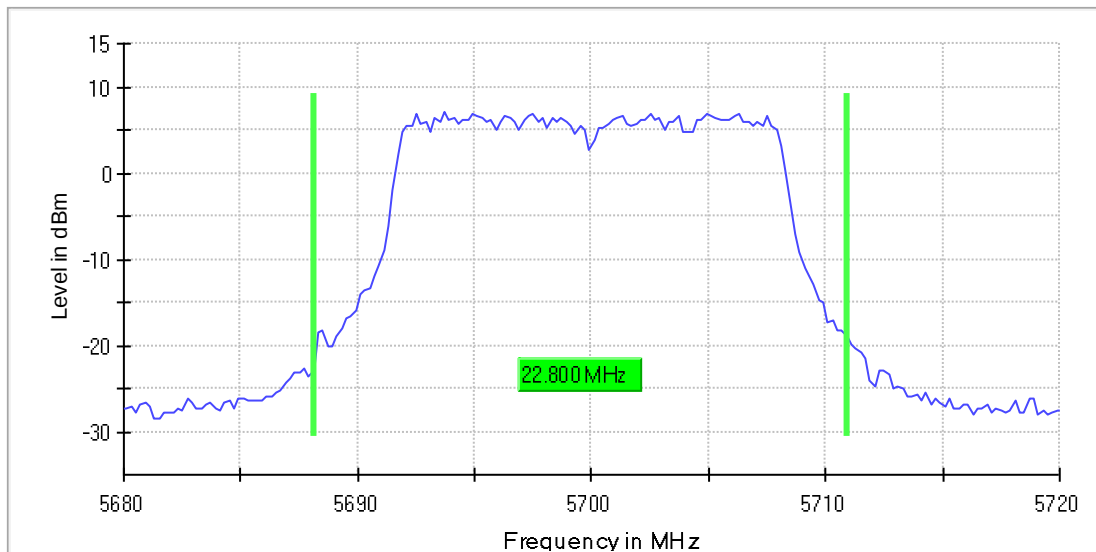




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5700.000000	22.800000	---	---	5688.100000	5710.900000	7.2

DUT Frequency (MHz)	Result
5700.000000	PASS

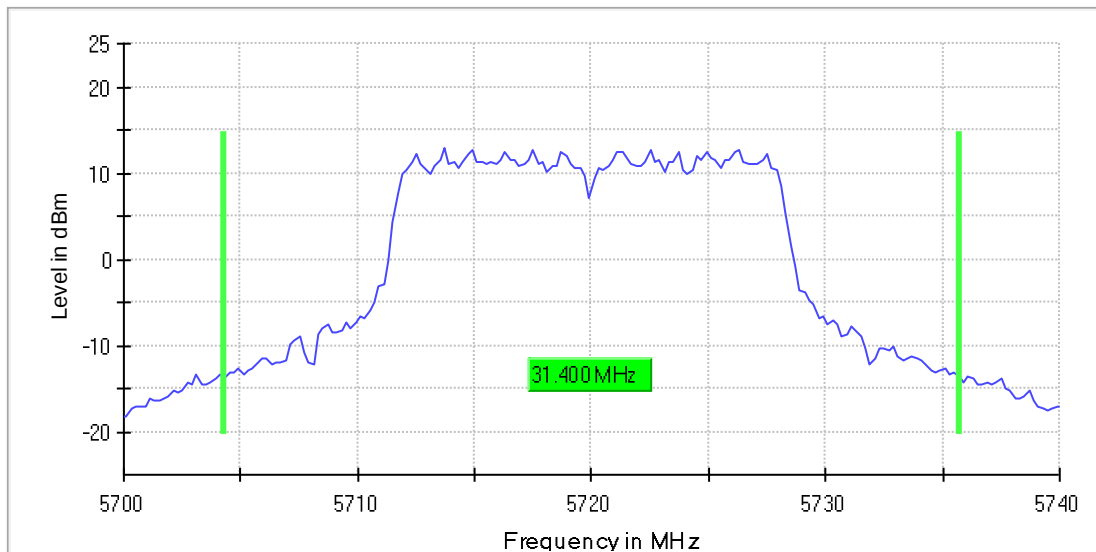




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5720.000000	31.400000	---	---	5704.300000	5735.700000	12.8

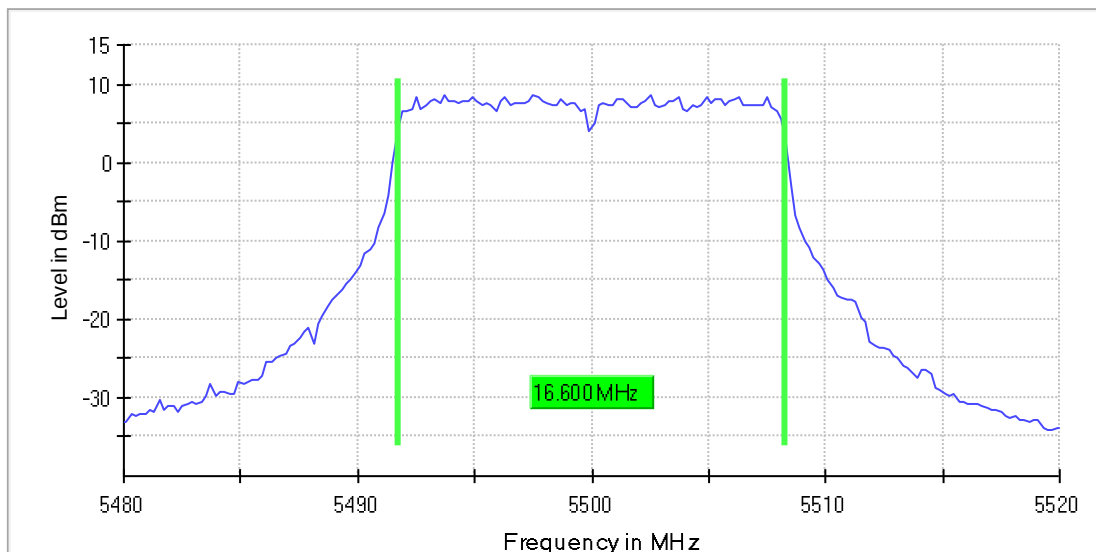
DUT Frequency (MHz)	Result
5720.000000	PASS





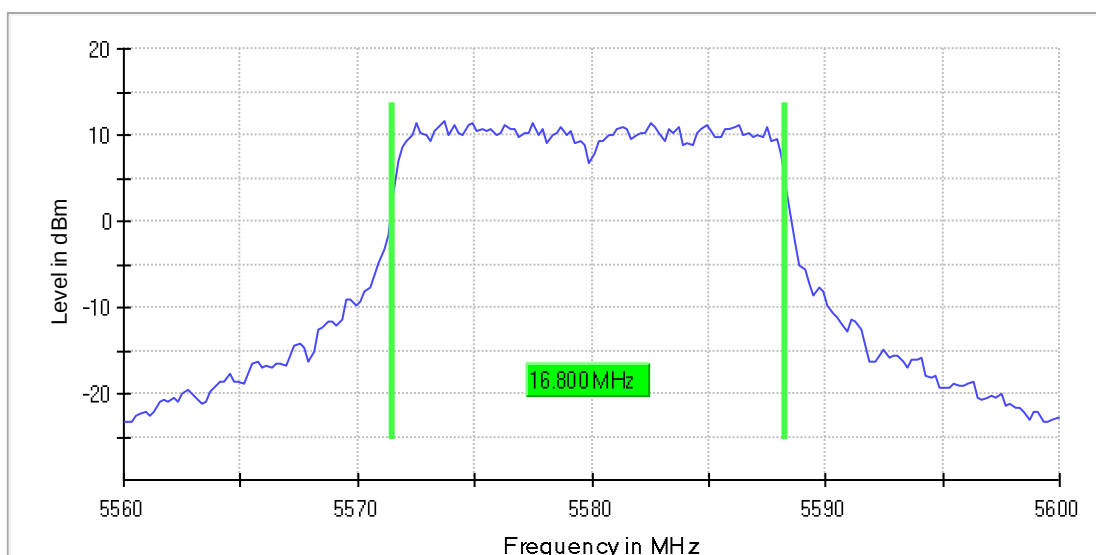
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5500.000000	16.600000	---	---	5491.700000	5508.300000	PASS



99 % Bandwidth

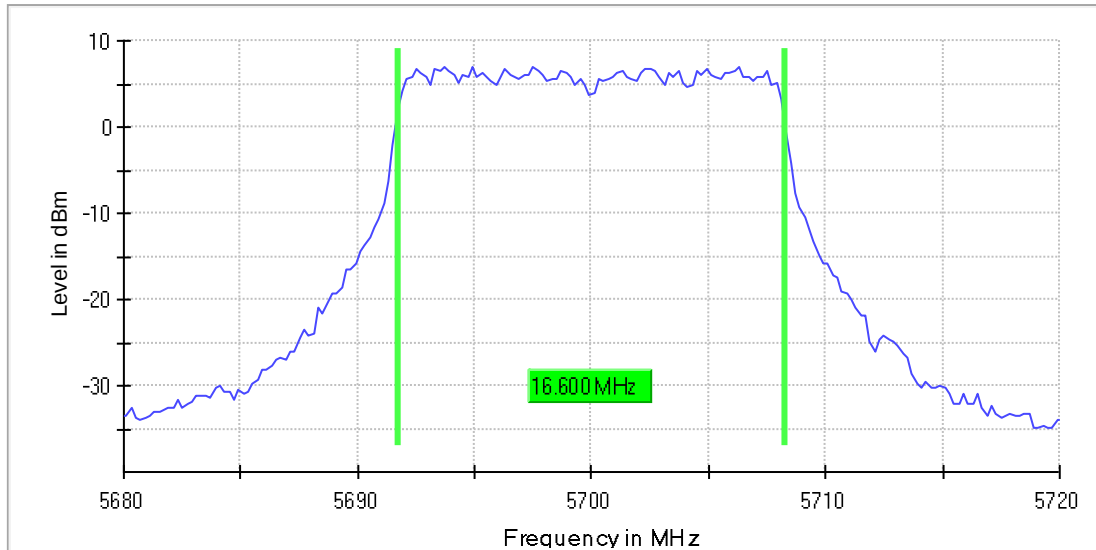
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5580.000000	16.800000	---	---	5571.500000	5588.300000	PASS





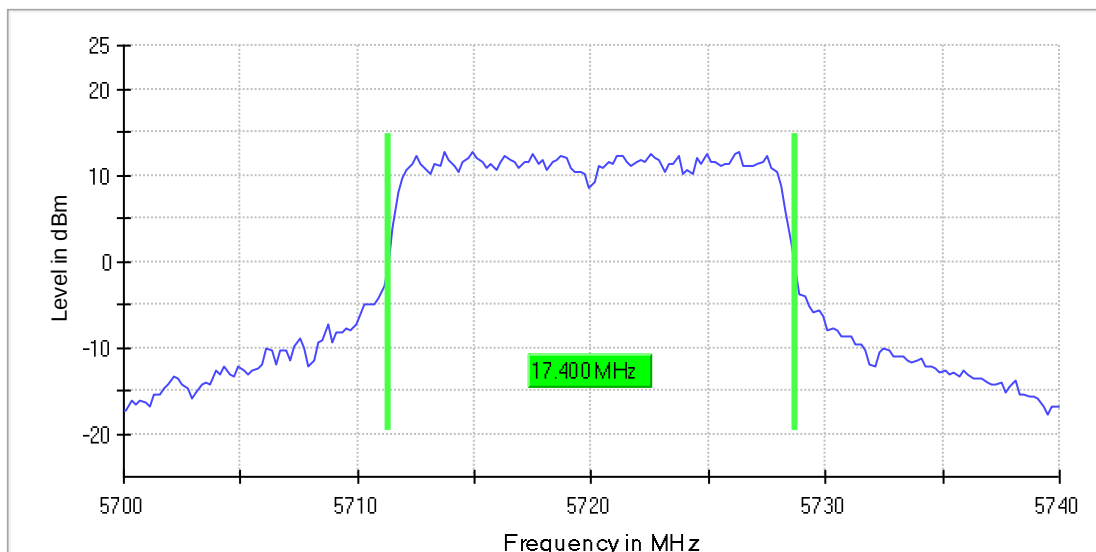
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5700.000000	16.600000	---	---	5691.700000	5708.300000	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5720.000000	17.400000	---	---	5711.300000	5728.700000	PASS



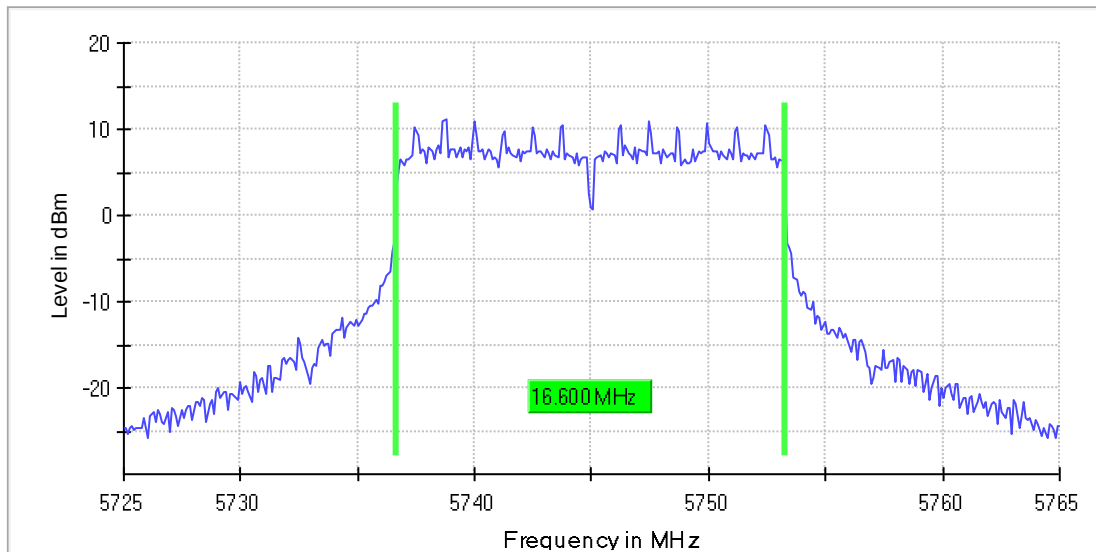


6.2.1.3. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5745.000000	16.600000	0.500000	---	5736.650000	5753.250000	11.1

DUT Frequency (MHz)	Result
5745.000000	PASS

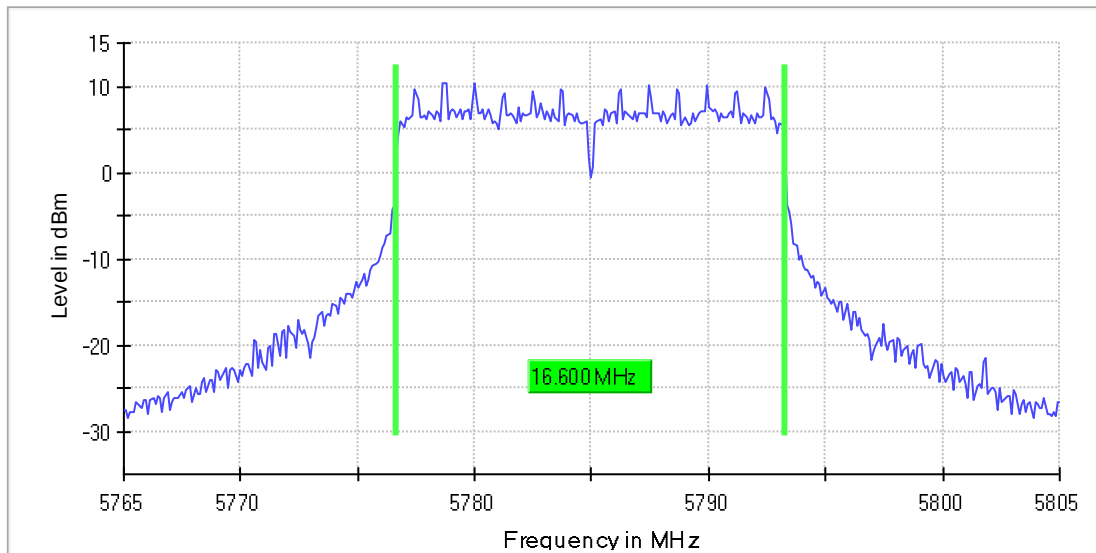




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5785.000000	16.600000	0.500000	---	5776.650000	5793.250000	10.5

DUT Frequency (MHz)	Result
5785.000000	PASS

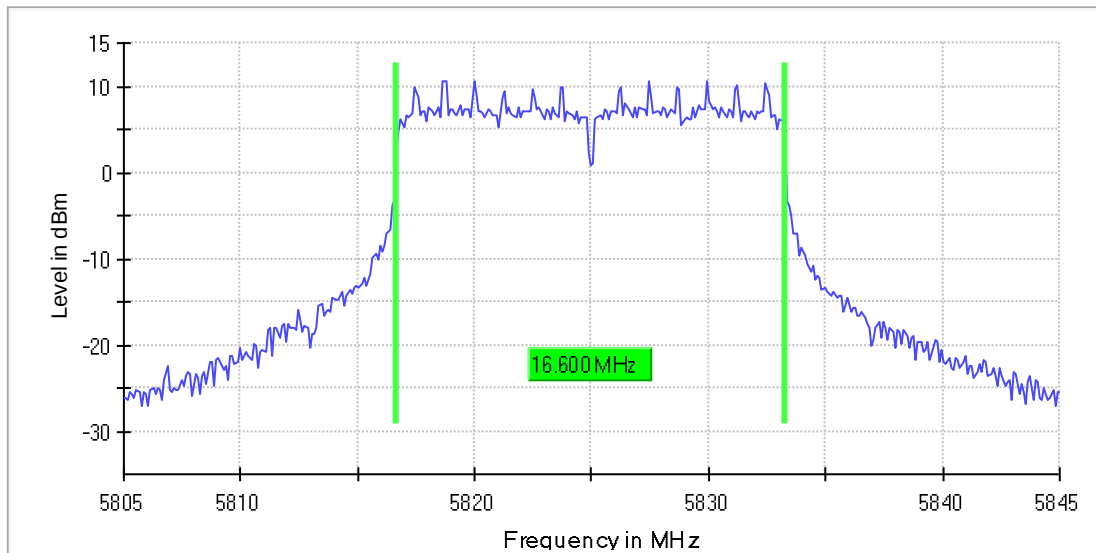




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5825.000000	16.600000	0.500000	---	5816.650000	5833.250000	10.6

DUT Frequency (MHz)	Result
5825.000000	PASS



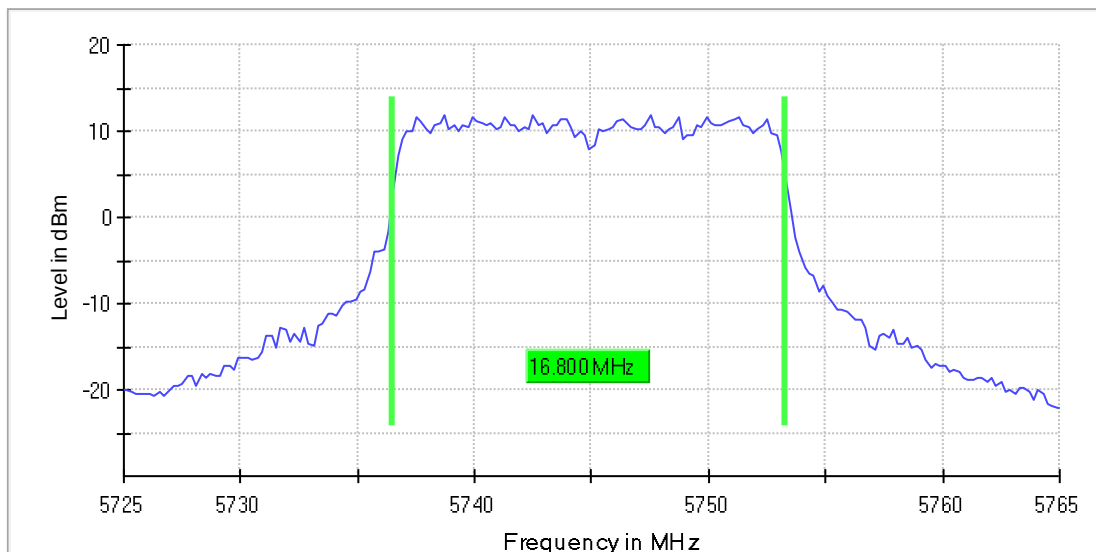
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5720.000000	3.265	0.500000	PASS





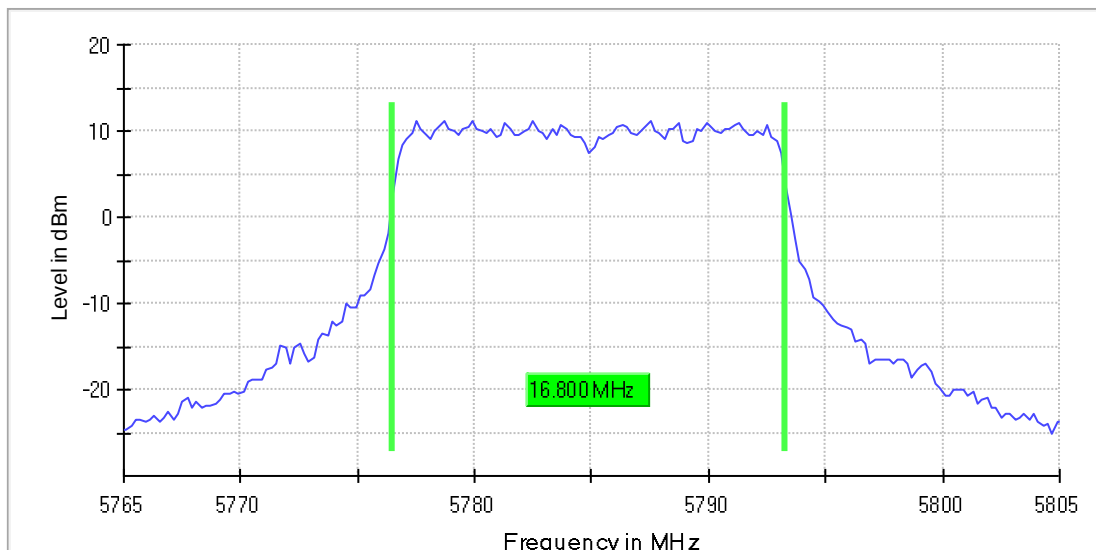
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5745.000000	16.800000	---	---	5736.500000	5753.300000	PASS



99 % Bandwidth

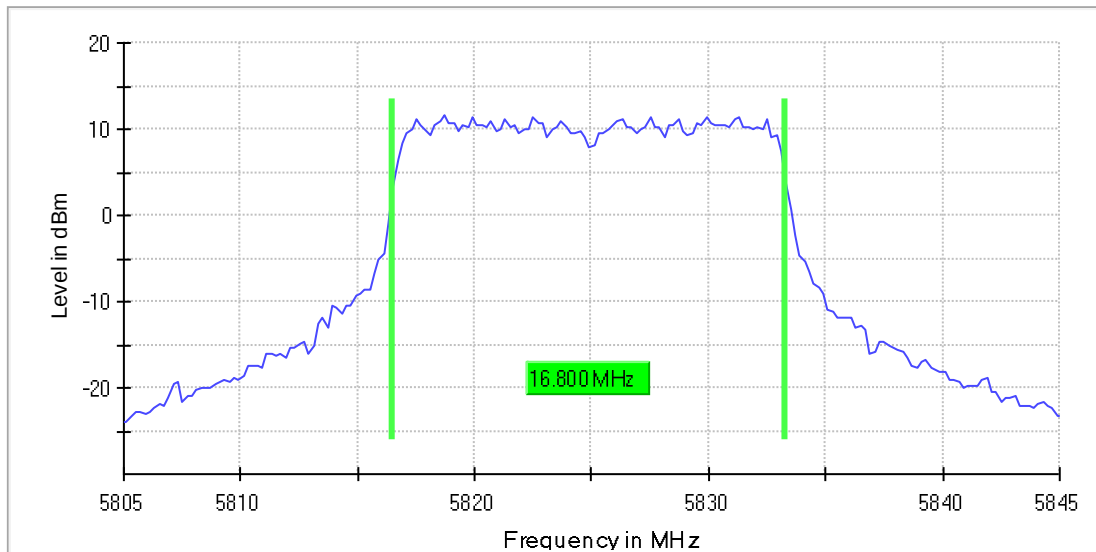
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5785.000000	16.800000	---	---	5776.500000	5793.300000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5825.000000	16.800000	---	---	5816.500000	5833.300000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



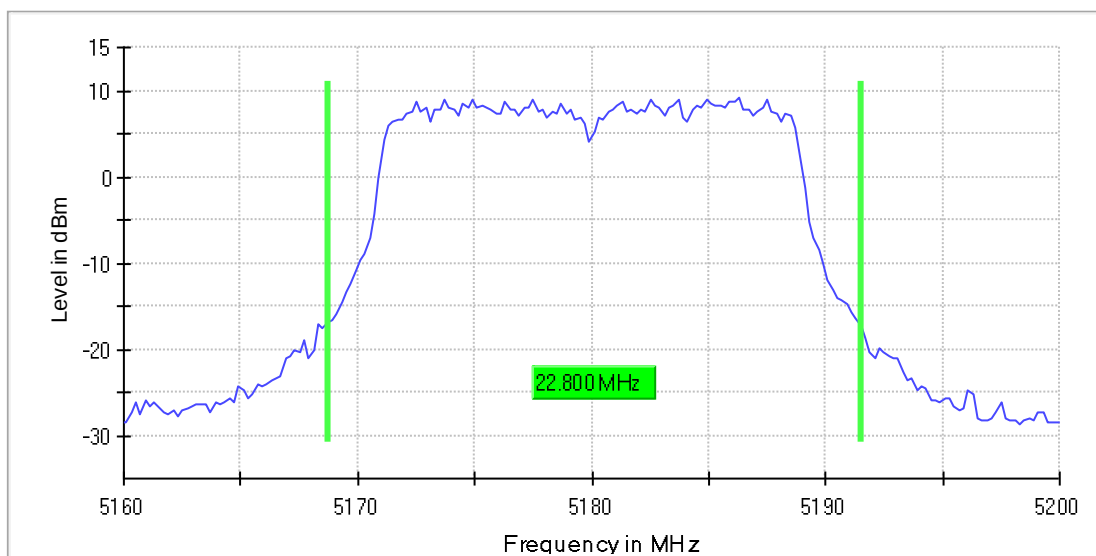
6.2.2. 802.11n HT20 SISO MODE

6.2.2.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5180.000000	22.800000	---	---	5168.700000	5191.500000	9.1

DUT Frequency (MHz)	Result
5180.000000	PASS

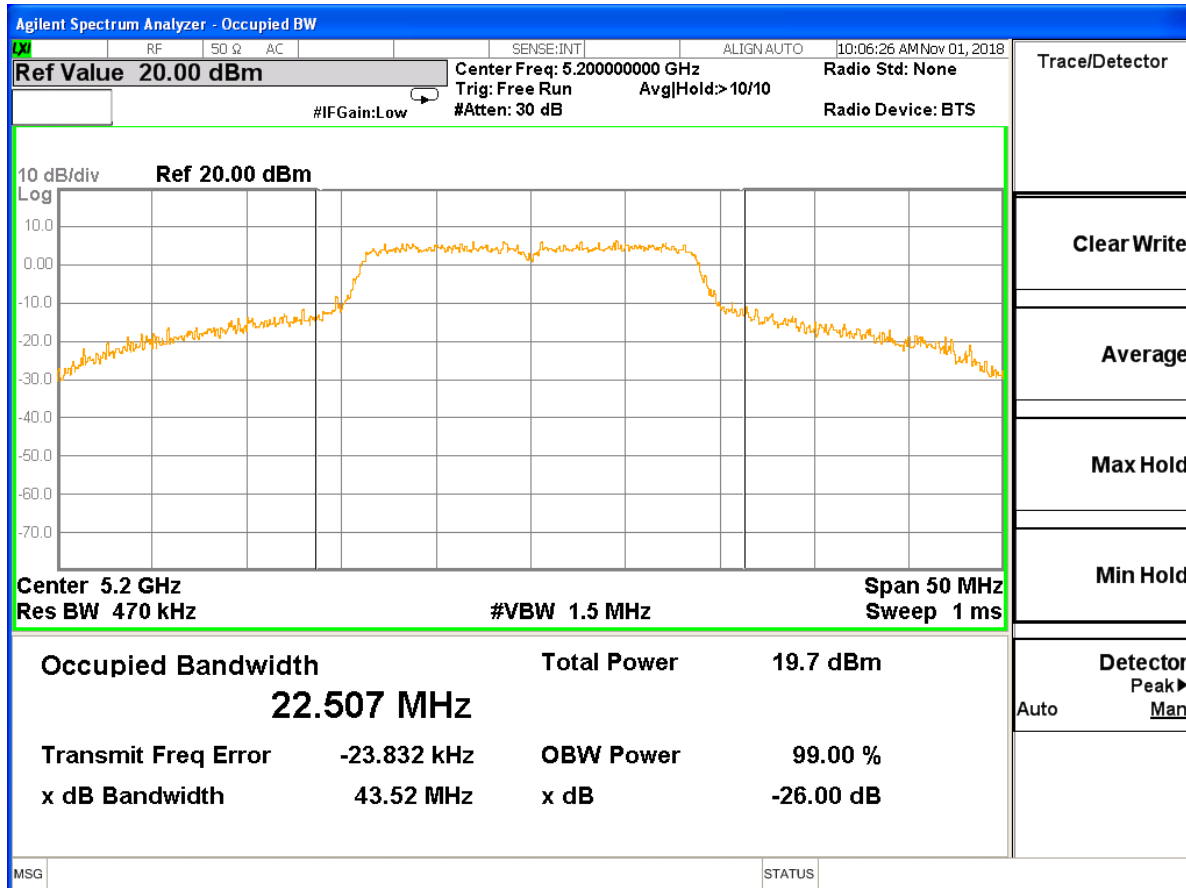




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)
5200.000000	43.52000	---	---

DUT Frequency (MHz)	Result
5200.000000	PASS

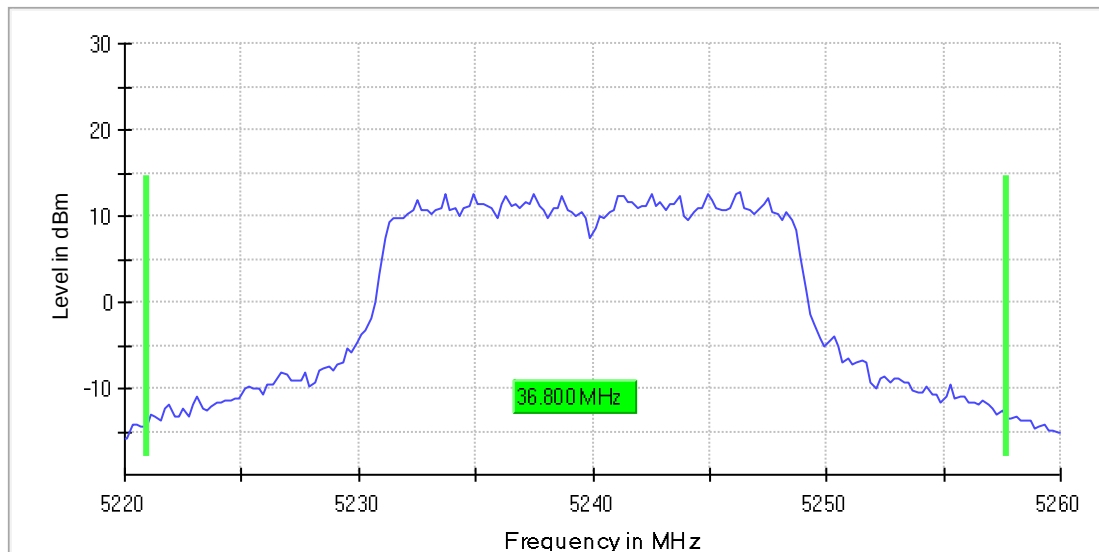




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5240.000000	36.800000	---	---	5220.900000	5257.700000	12.7

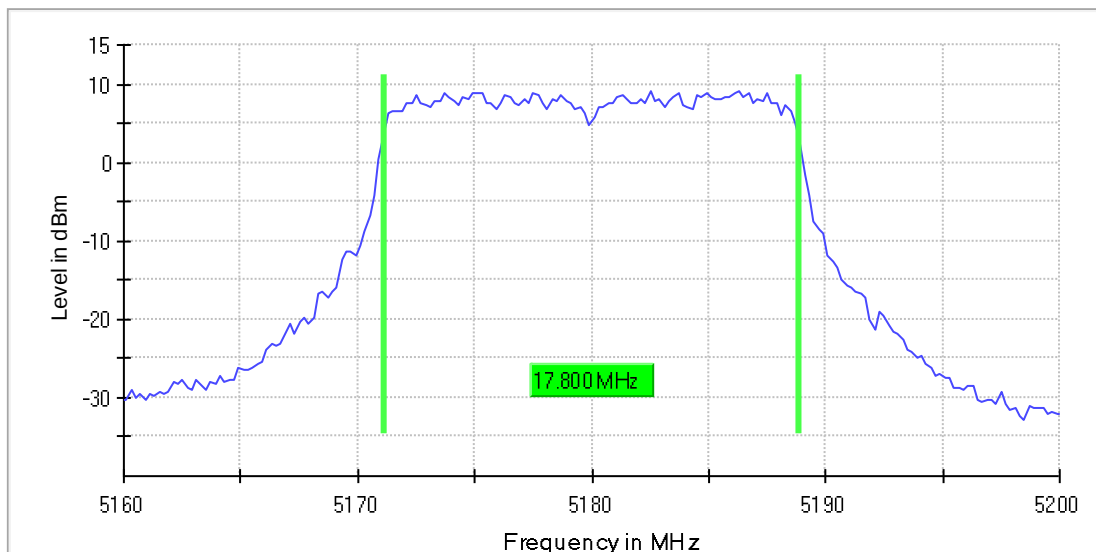
DUT Frequency (MHz)	Result
5240.000000	PASS





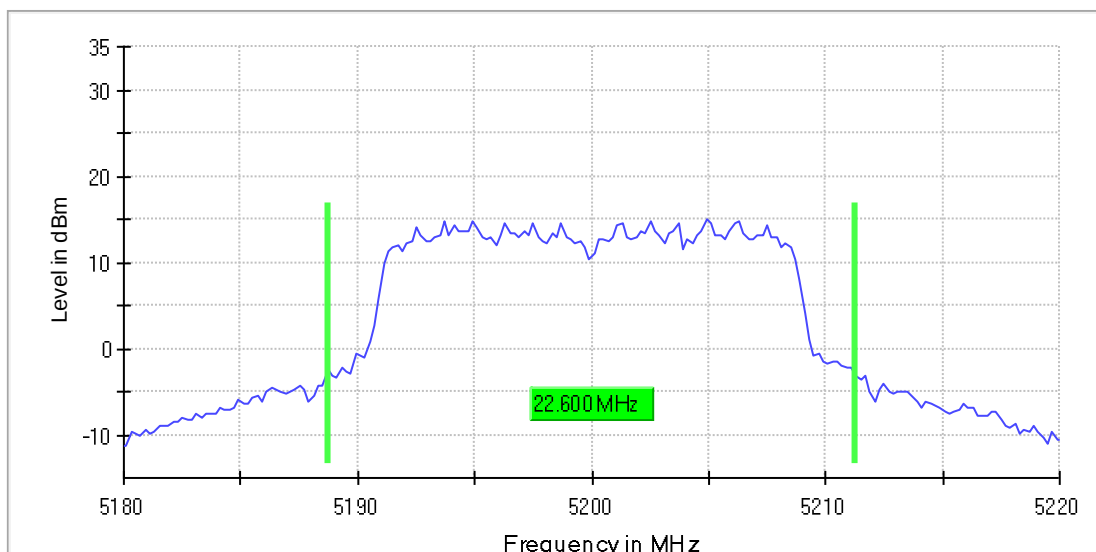
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5180.000000	17.800000	---	---	5171.100000	5188.900000	PASS



99 % Bandwidth

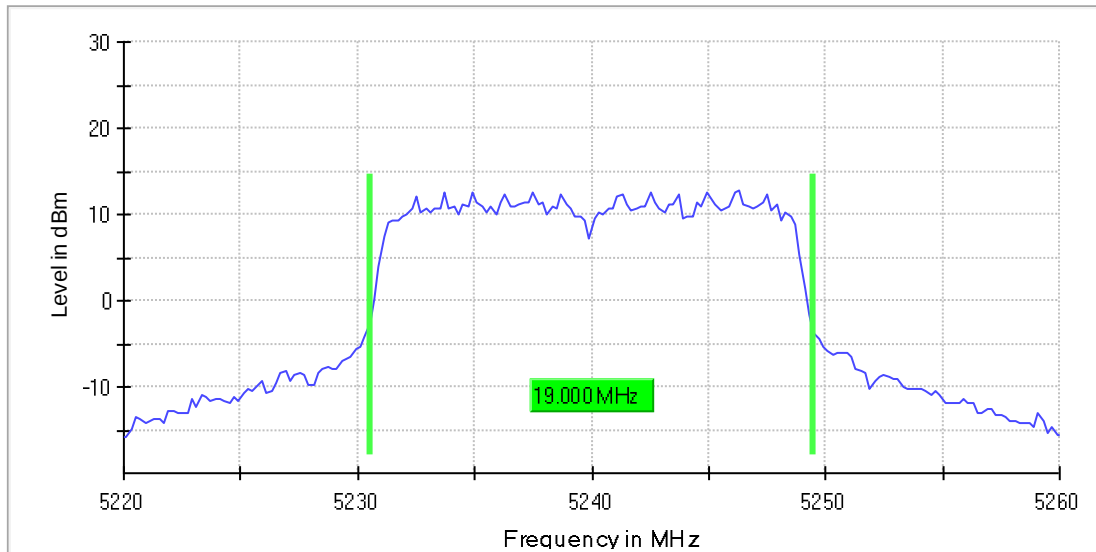
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5200.000000	22.600000	---	---	5188.700000	5211.300000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5240.000000	19.000000	---	---	5230.500000	5249.500000	PASS



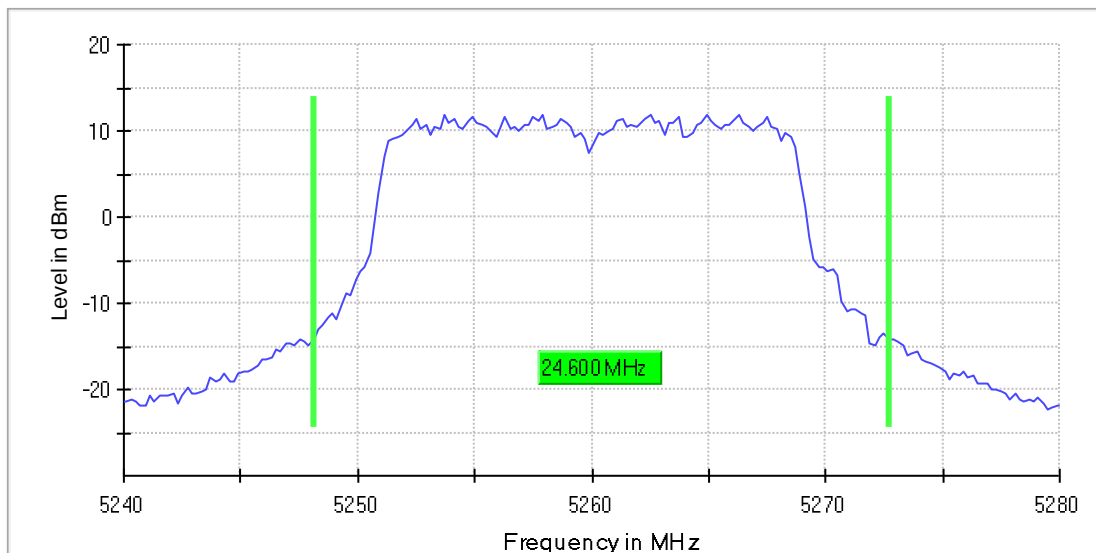


6.2.2.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5260.000000	24.600000	---	---	5248.100000	5272.700000	11.9

DUT Frequency (MHz)	Result
5260.000000	PASS

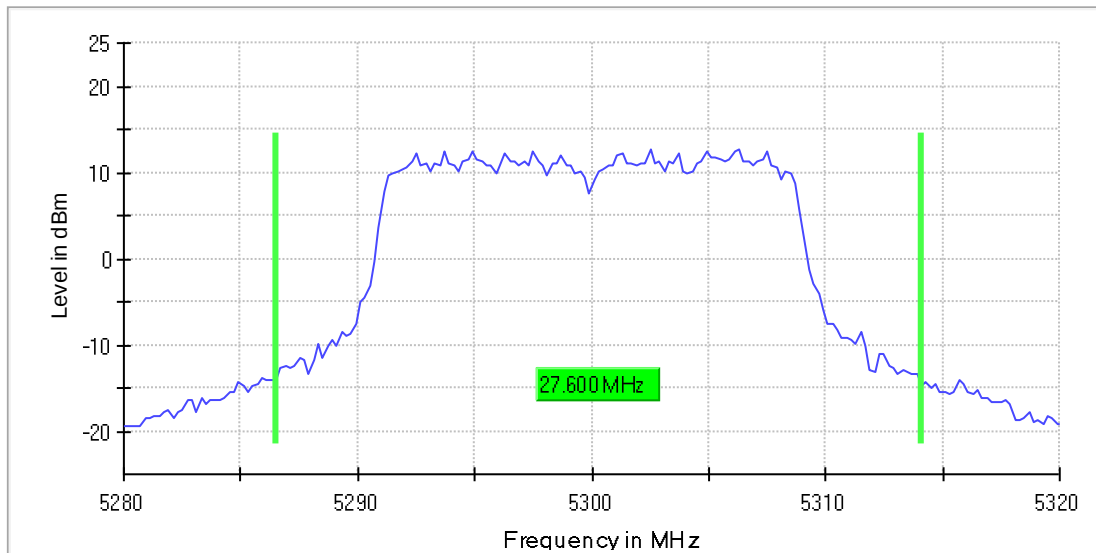




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5300.000000	27.600000	---	---	5286.500000	5314.100000	12.6

DUT Frequency (MHz)	Result
5300.000000	PASS

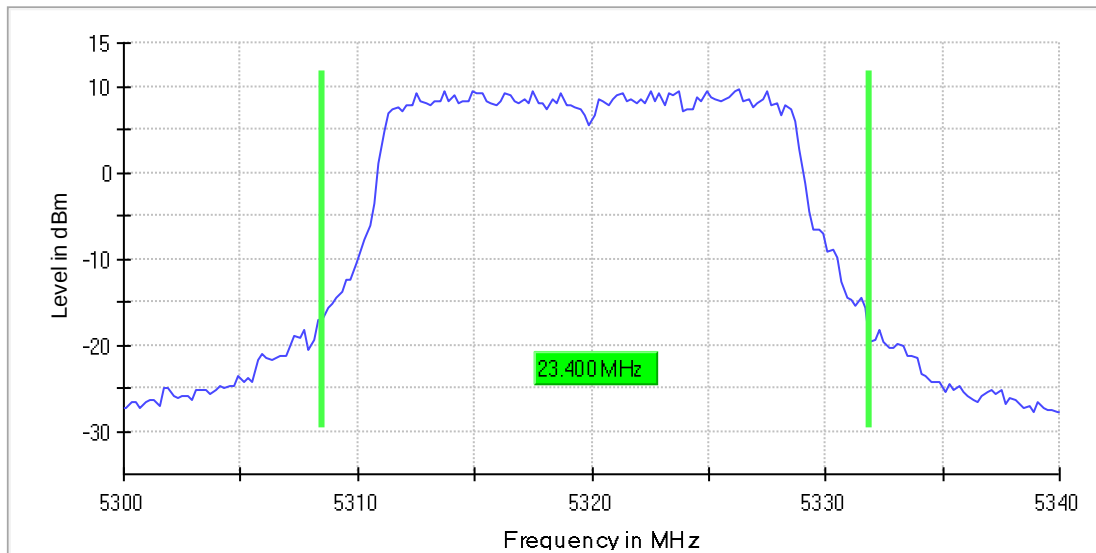




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5320.000000	23.400000	---	---	5308.500000	5331.900000	9.6

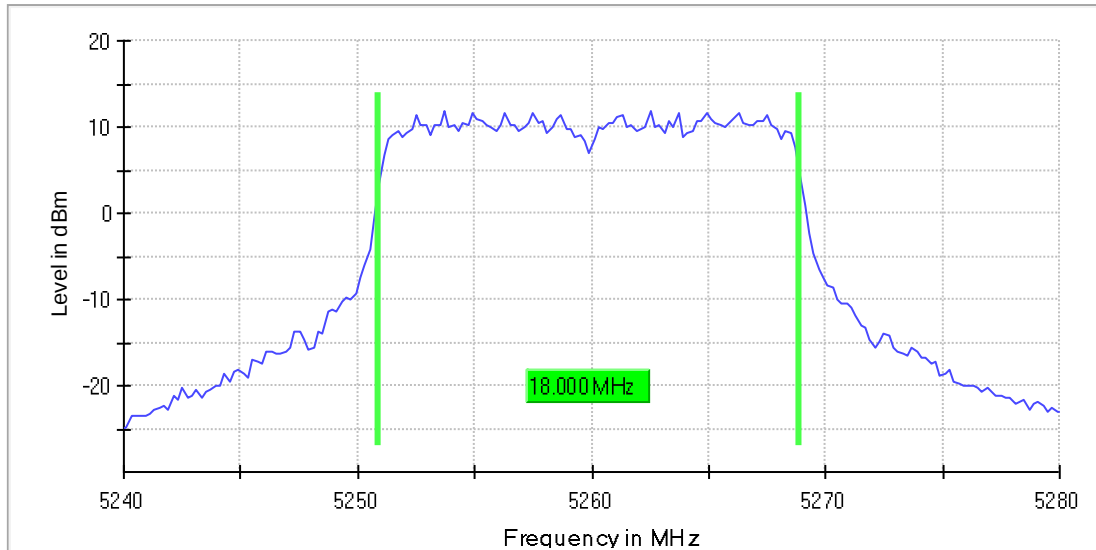
DUT Frequency (MHz)	Result
5320.000000	PASS





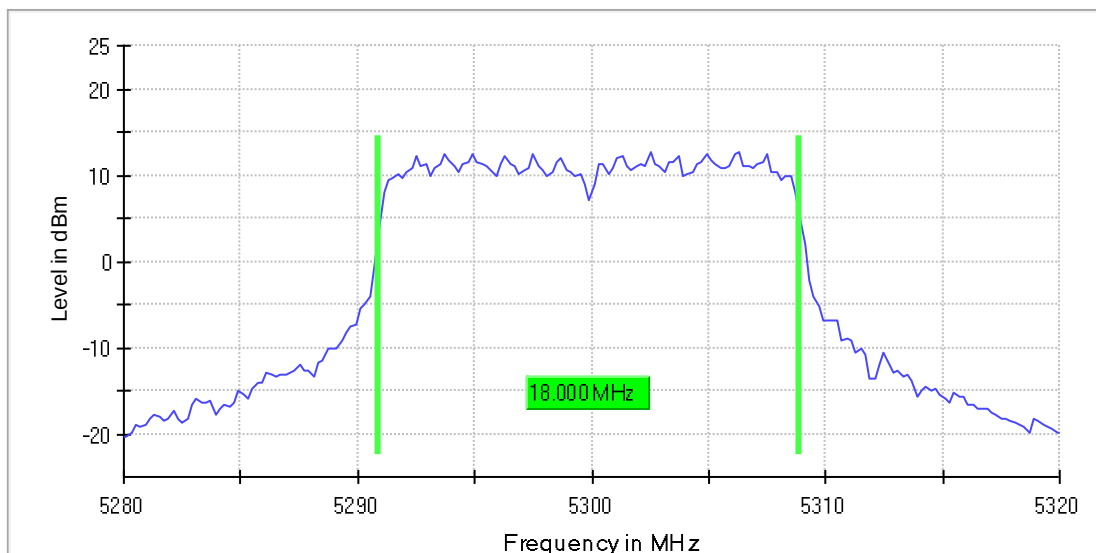
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5260.000000	18.000000	---	---	5250.900000	5268.900000	PASS



99 % Bandwidth

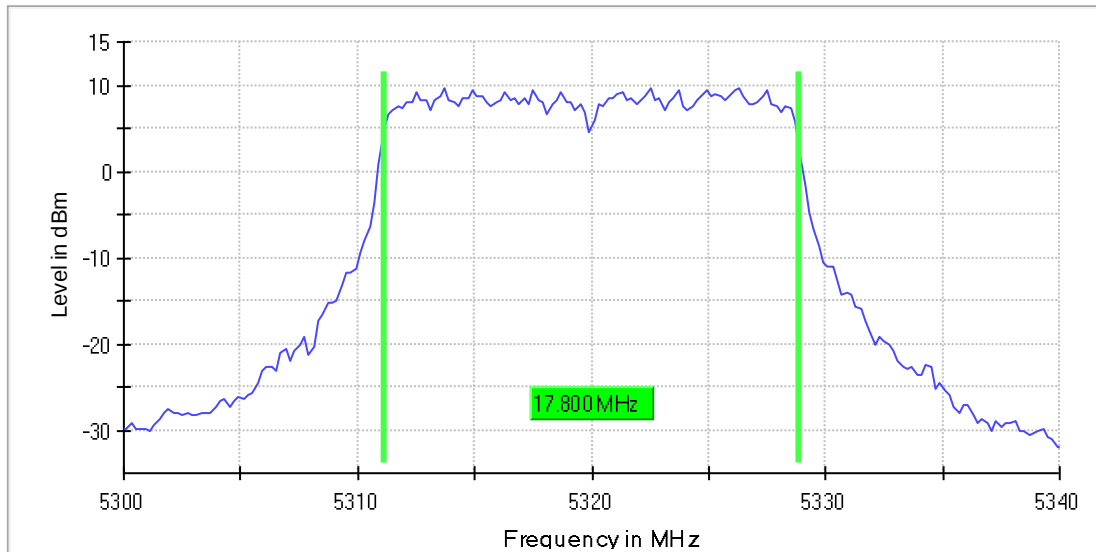
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5300.000000	18.000000	---	---	5290.900000	5308.900000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5320.000000	17.800000	---	---	5311.100000	5328.900000	PASS



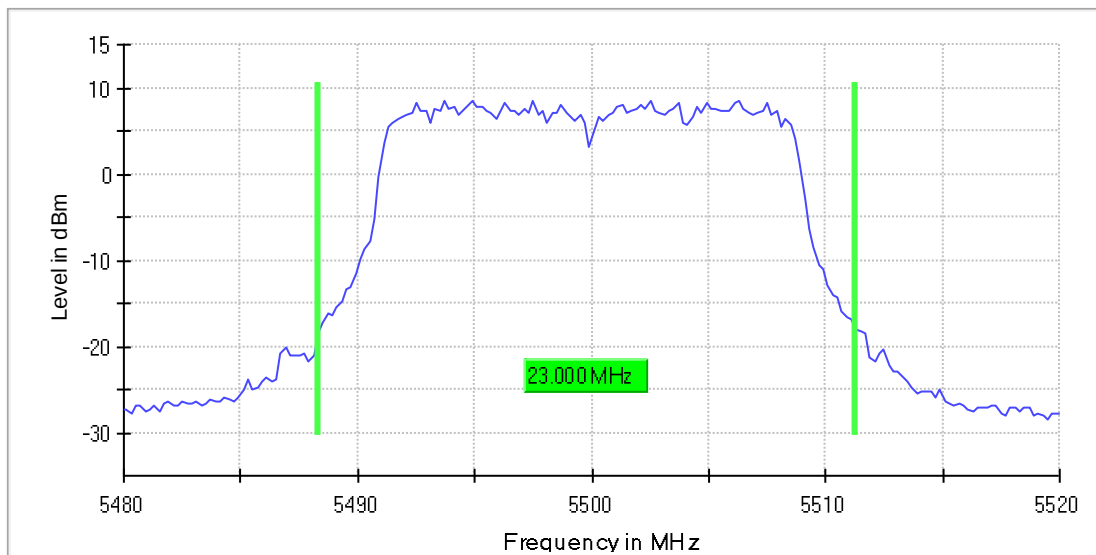


6.2.2.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5500.000000	23.000000	---	---	5488.300000	5511.300000	8.6

DUT Frequency (MHz)	Result
5500.000000	PASS

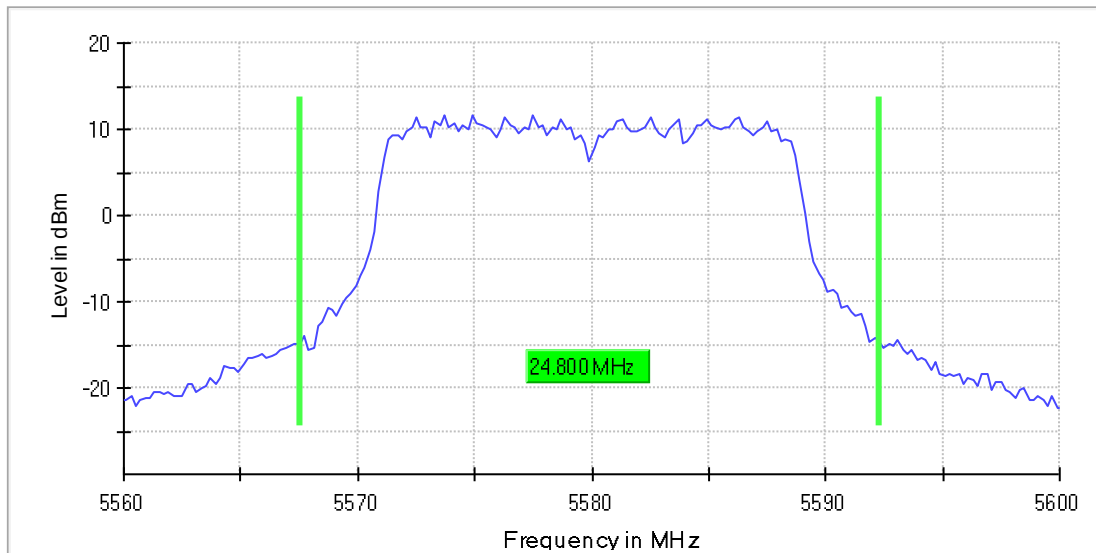




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5580.000000	24.800000	---	---	5567.500000	5592.300000	11.7

DUT Frequency (MHz)	Result
5580.000000	PASS

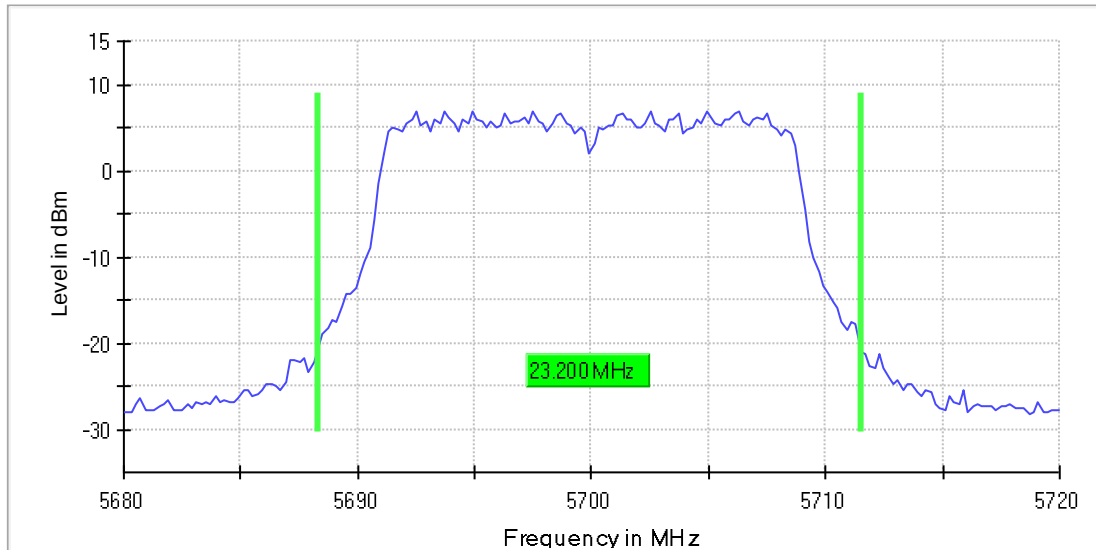




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5700.000000	23.200000	---	---	5688.300000	5711.500000	7.0

DUT Frequency (MHz)	Result
5700.000000	PASS

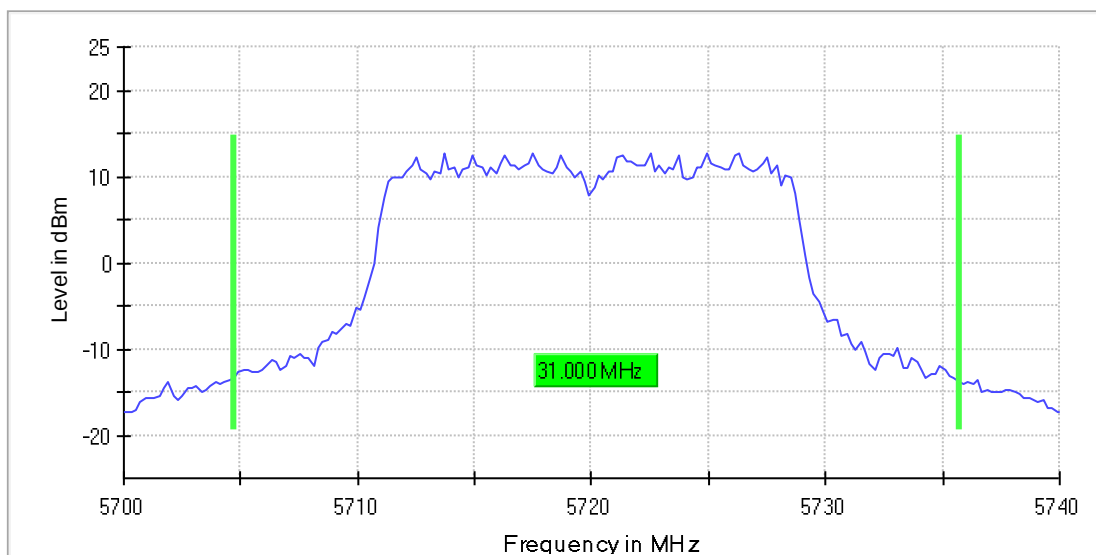




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5720.000000	31.000000	---	---	5704.700000	5735.700000	12.7

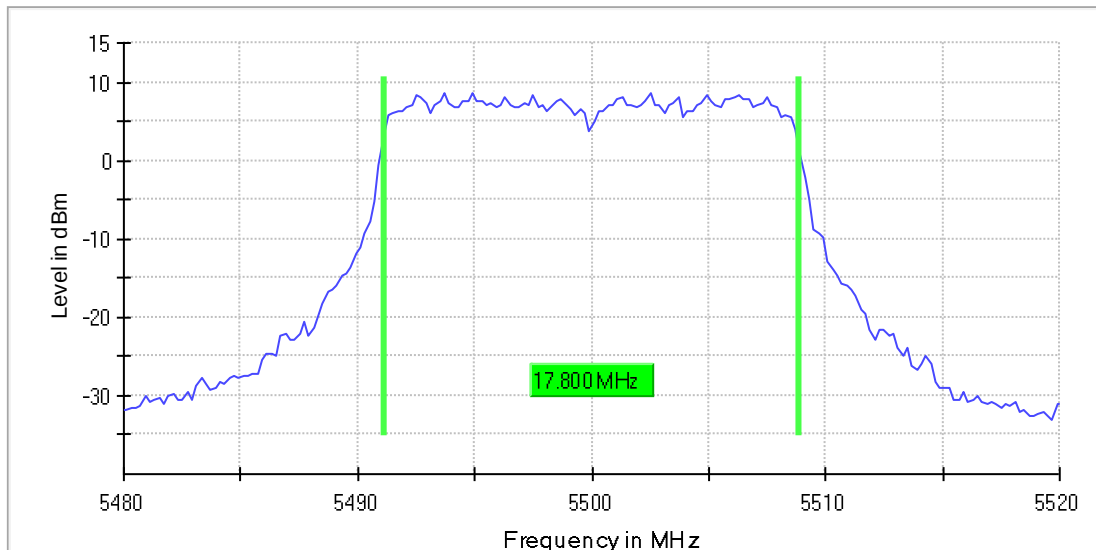
DUT Frequency (MHz)	Result
5720.000000	PASS





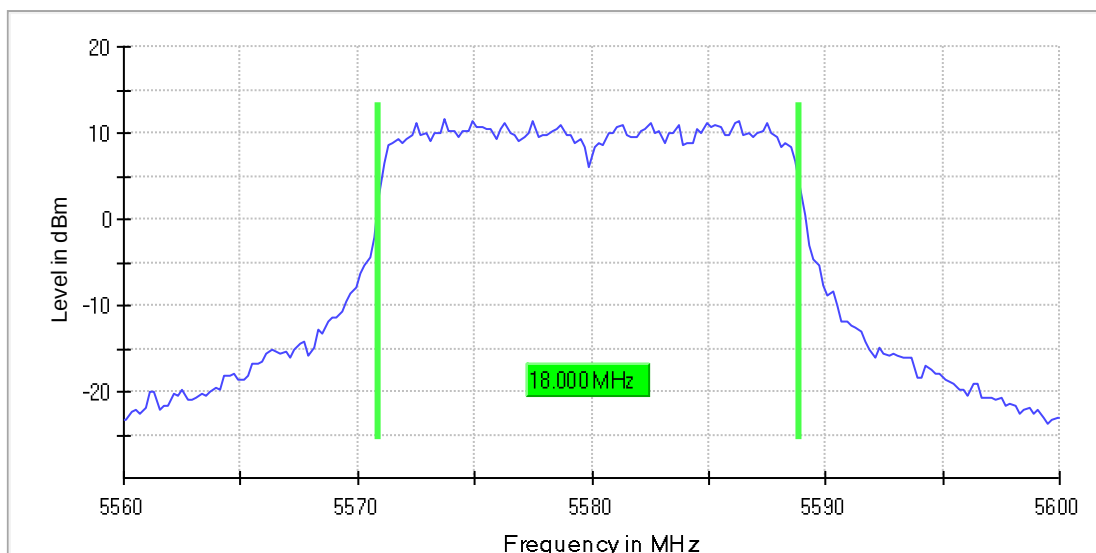
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5500.000000	17.800000	---	---	5491.100000	5508.900000	PASS



99 % Bandwidth

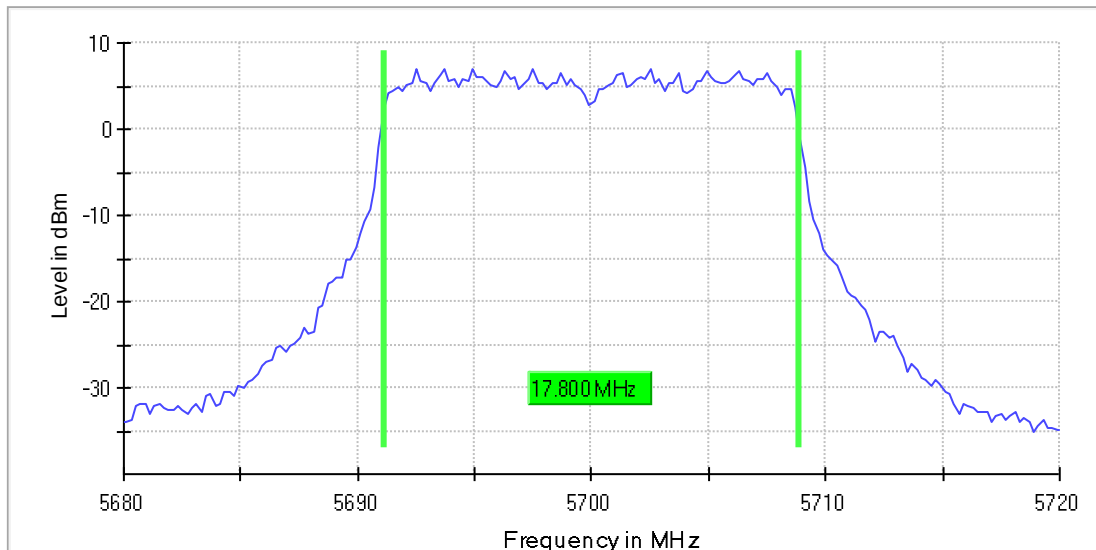
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5580.000000	18.000000	---	---	5570.900000	5588.900000	PASS





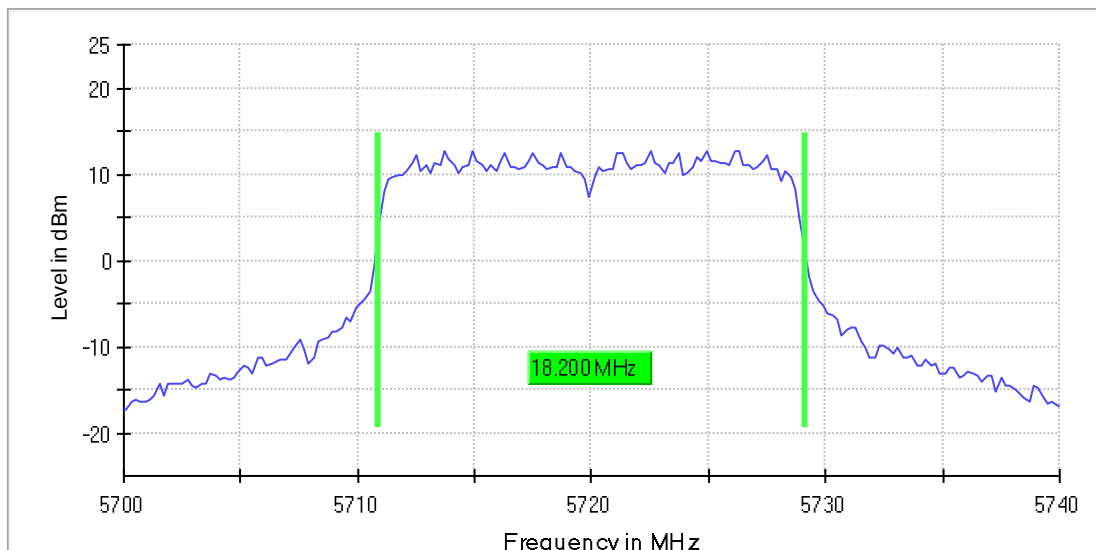
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5700.000000	17.800000	---	---	5691.100000	5708.900000	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5720.000000	18.200000	---	---	5710.900000	5729.100000	PASS



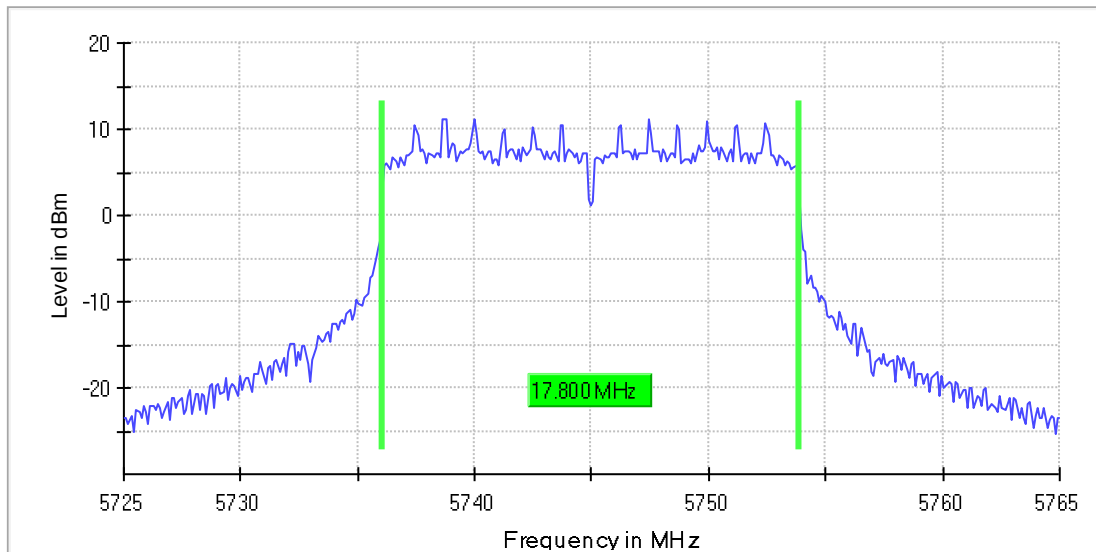


6.2.2.4. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5745.000000	17.800000	0.500000	---	5736.050000	5753.850000	11.2

DUT Frequency (MHz)	Result
5745.000000	PASS

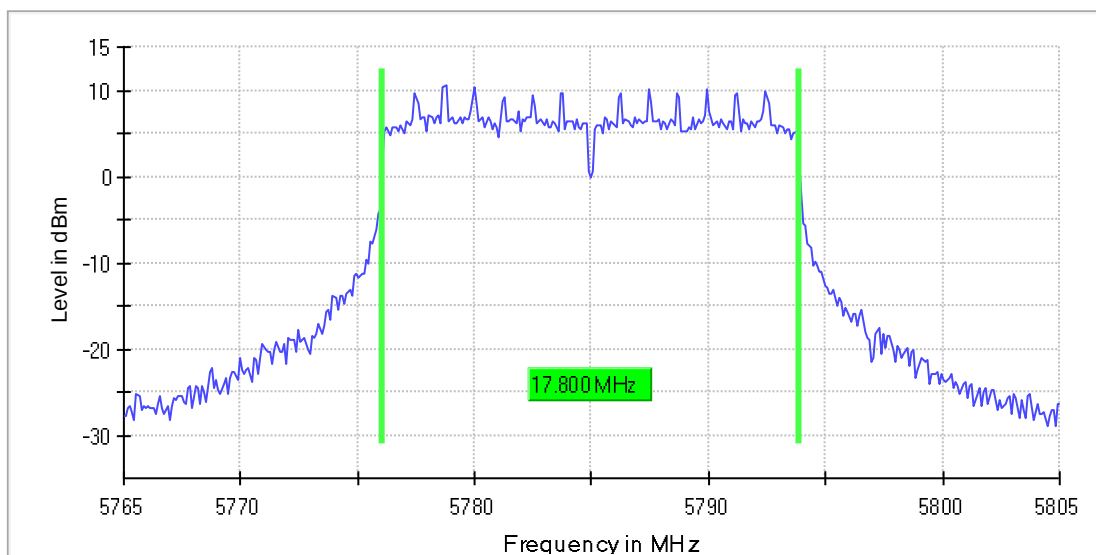




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5785.000000	17.800000	0.500000	---	5776.050000	5793.850000	10.5

DUT Frequency (MHz)	Result
5785.000000	PASS

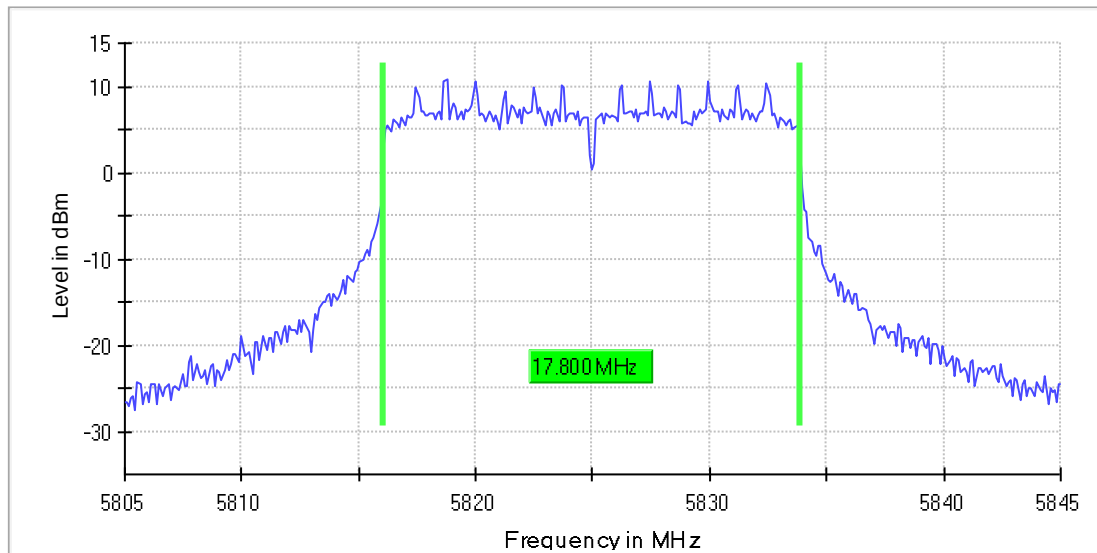




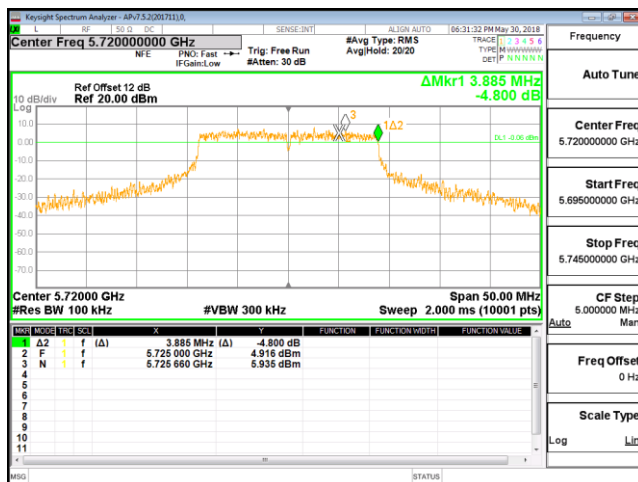
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5825.000000	17.800000	0.500000	---	5816.050000	5833.850000	10.8

DUT Frequency (MHz)	Result
5825.000000	PASS



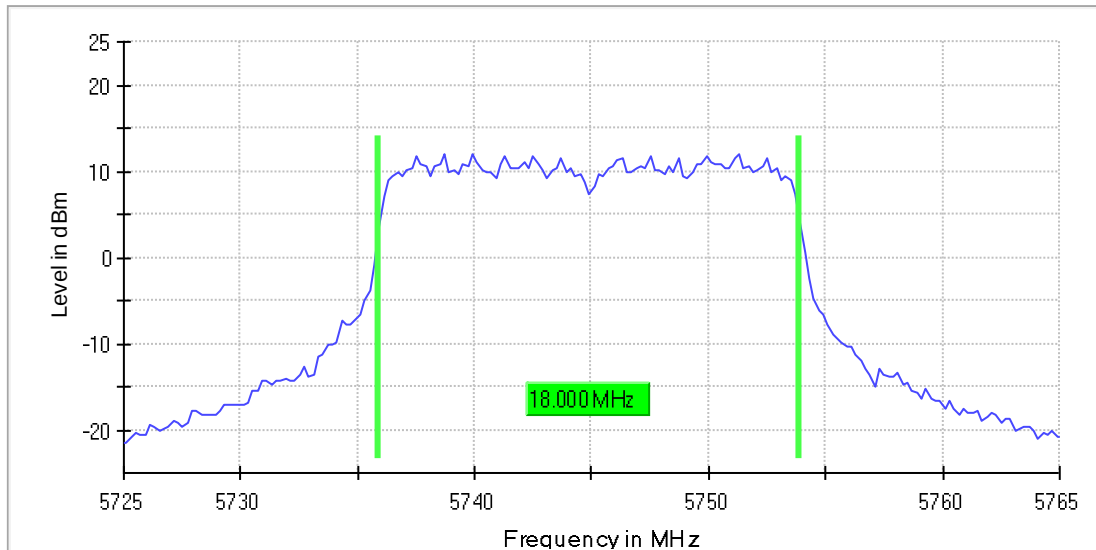
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5720.000000	3.885	0.500000	PASS





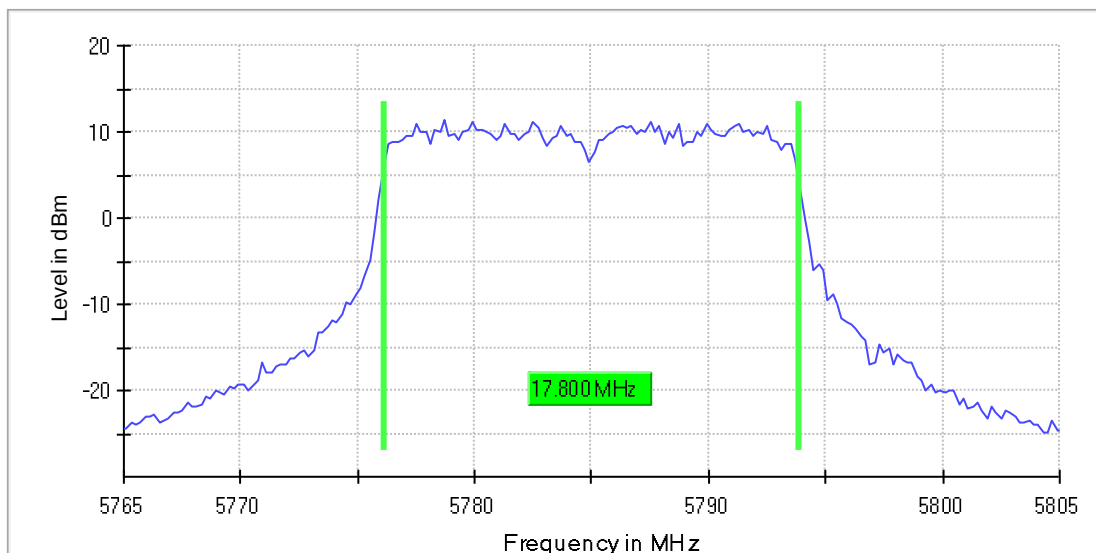
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5745.000000	18.000000	---	---	5735.900000	5753.900000	PASS



99 % Bandwidth

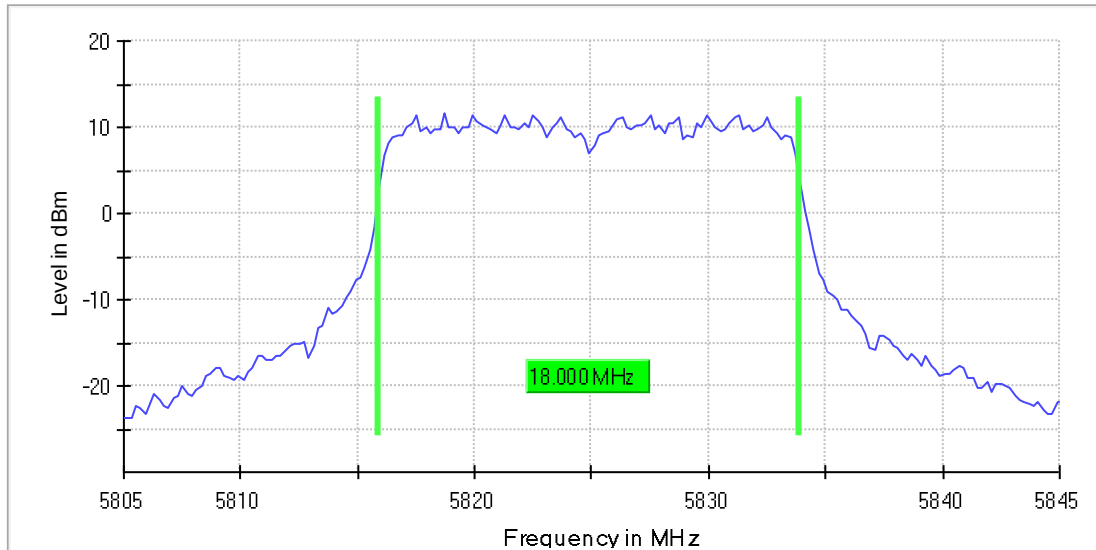
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5785.000000	17.800000	---	---	5776.100000	5793.900000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5825.000000	18.000000	---	---	5815.900000	5833.900000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



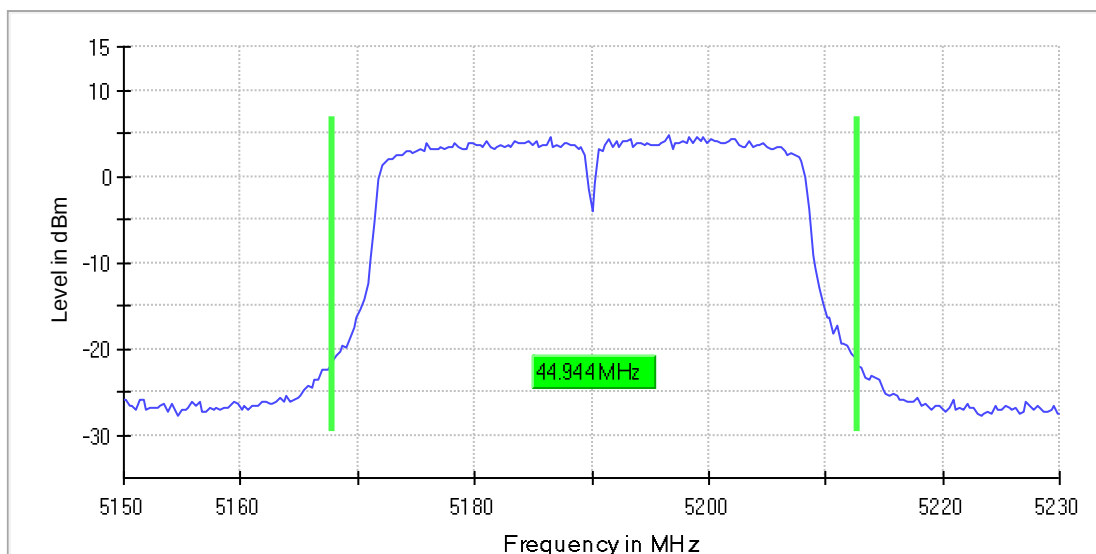
6.2.3. 802.11n HT40 SISO MODE

6.2.3.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5190.000000	44.943821	---	---	5167.827715	5212.771536	4.9

DUT Frequency (MHz)	Result
5190.000000	PASS

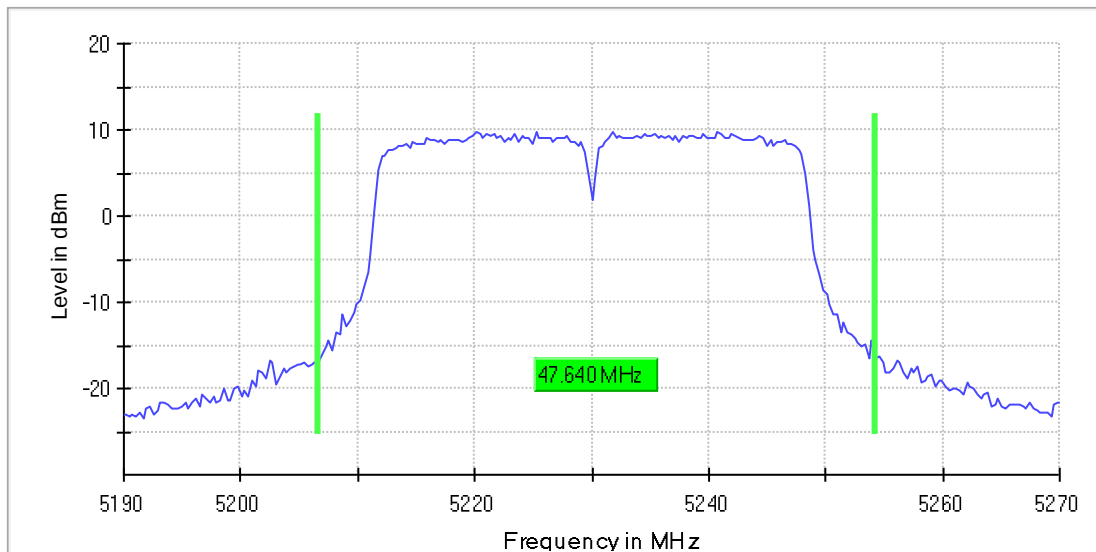




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5230.000000	47.640450	---	---	5206.629213	5254.269663	9.8

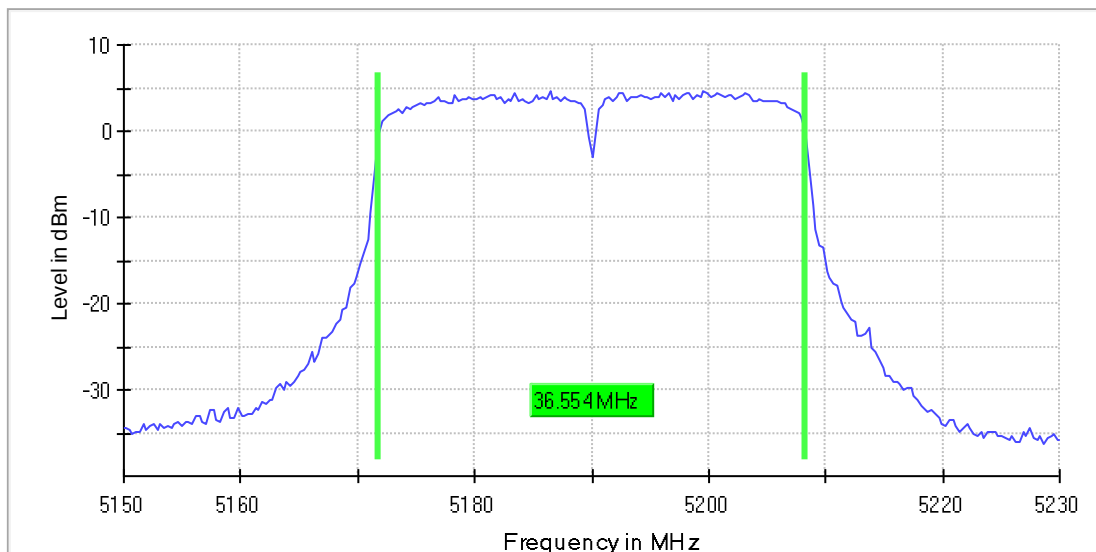
DUT Frequency (MHz)	Result
5230.000000	PASS





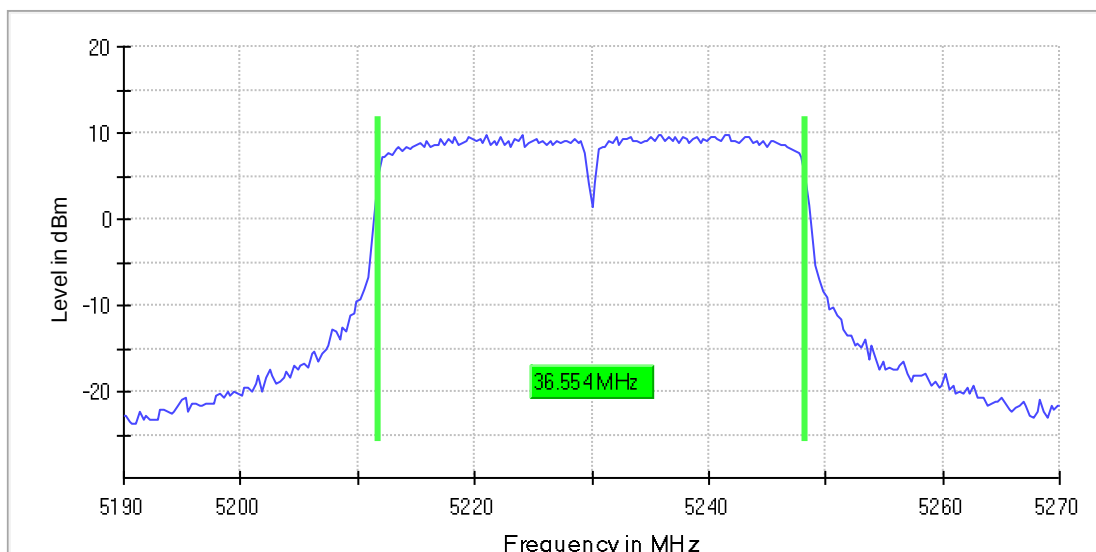
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5190.000000	36.554308	---	---	5171.722846	5208.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5230.000000	36.554308	---	---	5211.722846	5248.277154	PASS



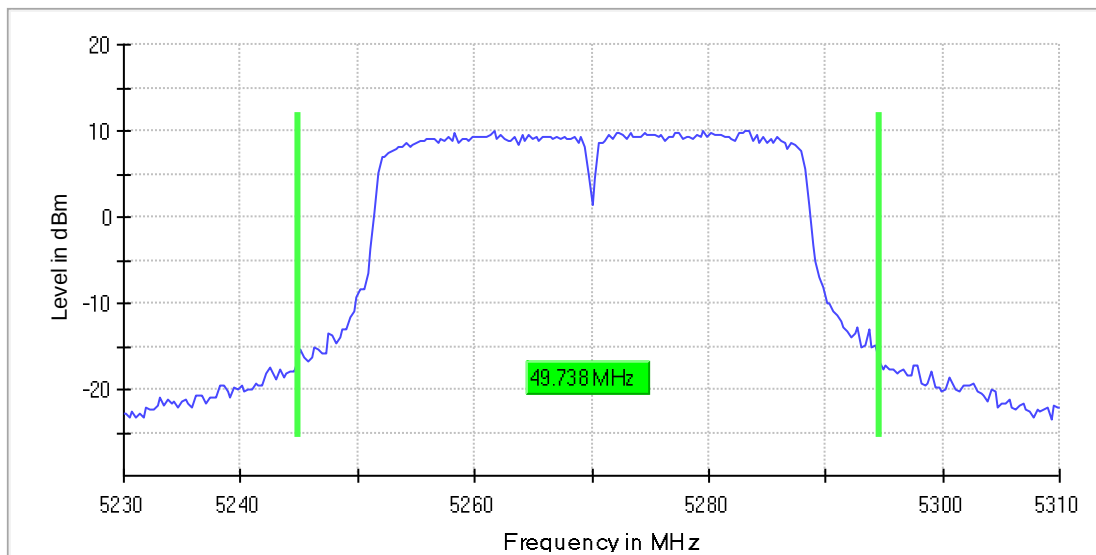


6.2.3.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5270.000000	49.737827	---	---	5244.831461	5294.569288	10.1

DUT Frequency (MHz)	Result
5270.000000	PASS

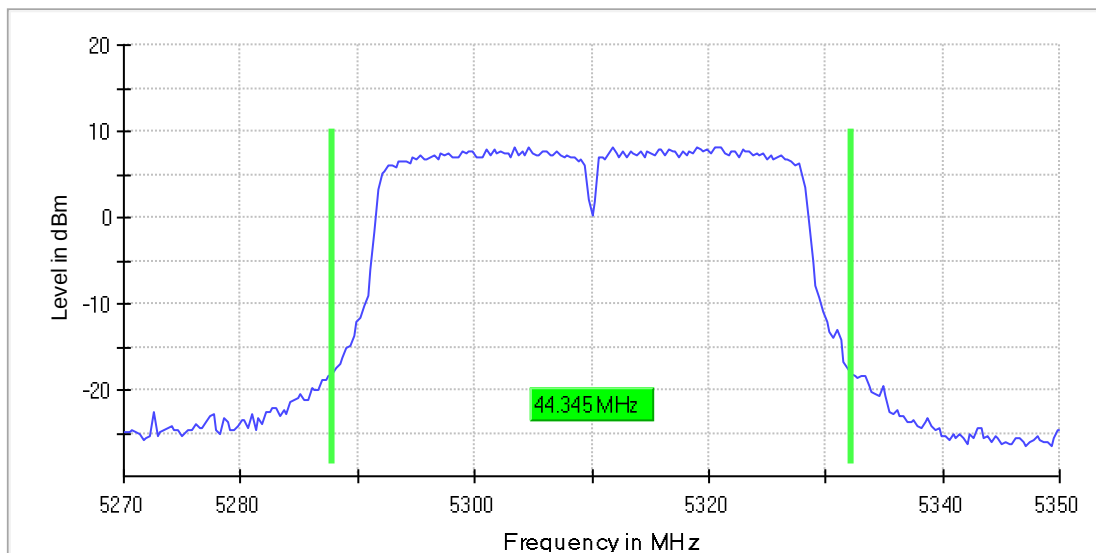




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5310.000000	44.344570	---	---	5287.827715	5332.172285	8.2

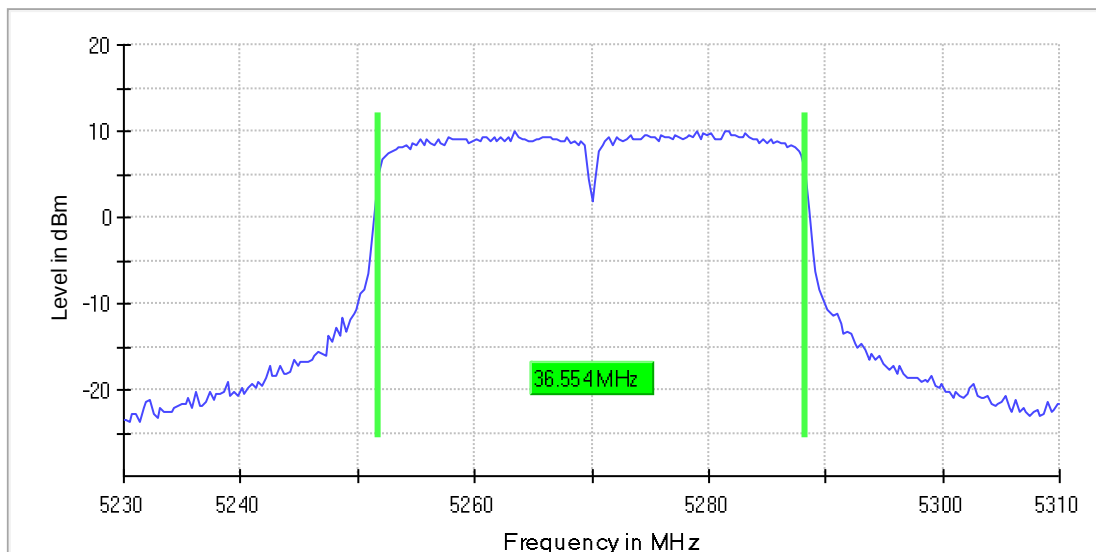
DUT Frequency (MHz)	Result
5310.000000	PASS





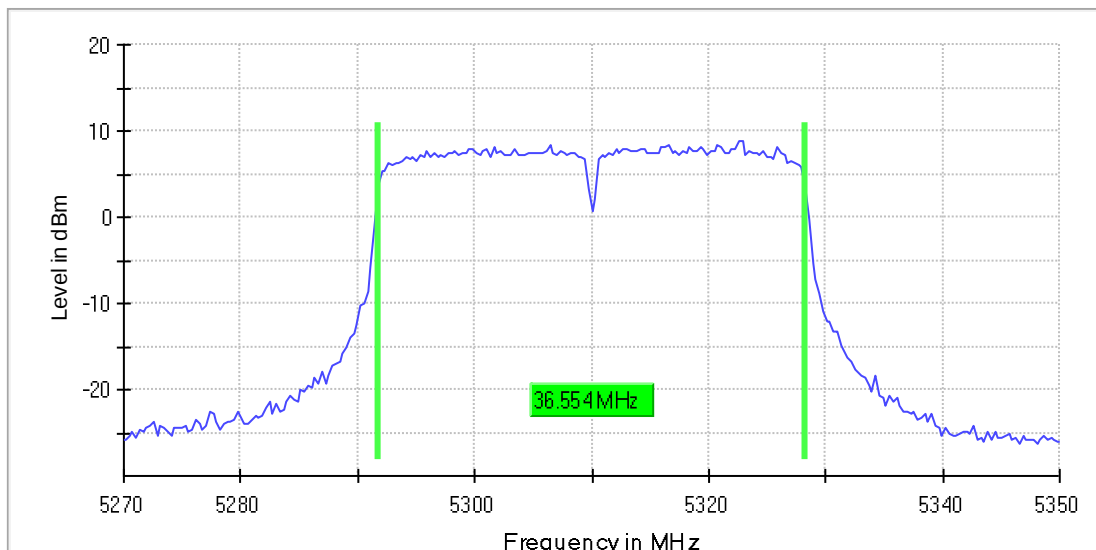
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5270.000000	36.554308	---	---	5251.722846	5288.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5310.000000	36.554308	---	---	5291.722846	5328.277154	PASS



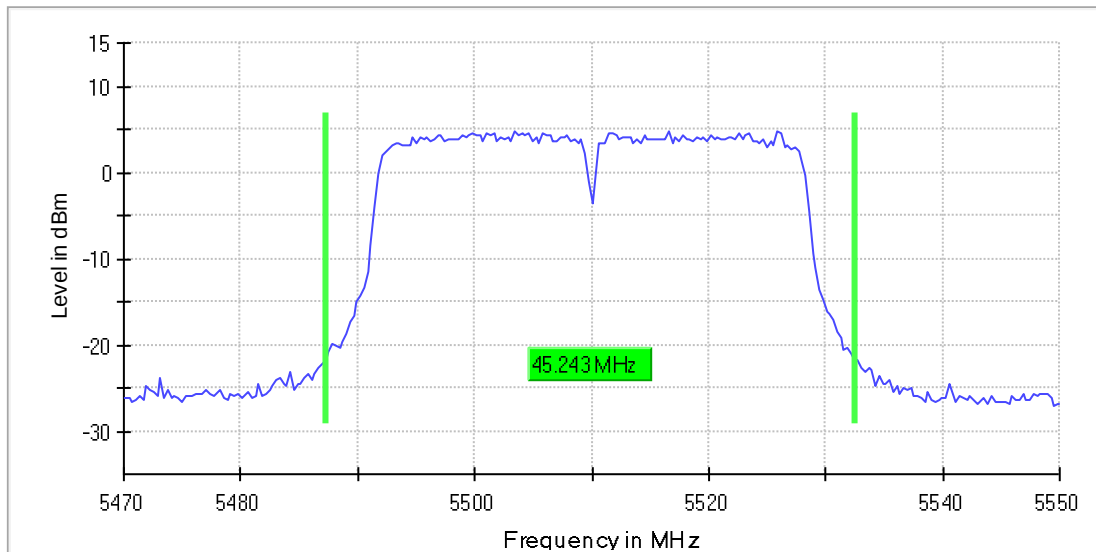


6.2.3.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5510.000000	45.243446	---	---	5487.228464	5532.471910	4.8

DUT Frequency (MHz)	Result
5510.000000	PASS

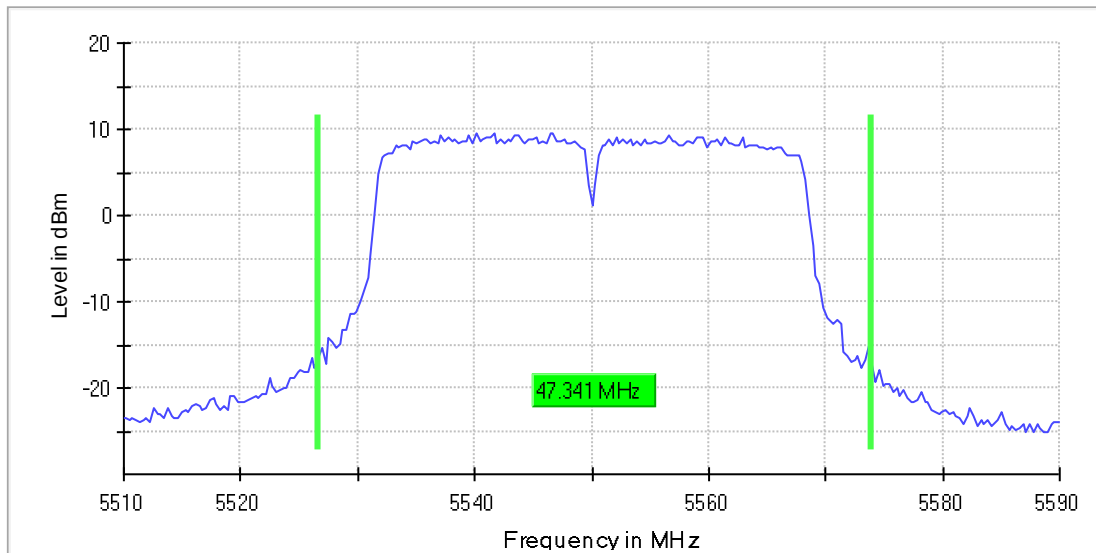




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5550.000000	47.340824	---	---	5526.629213	5573.970037	9.6

DUT Frequency (MHz)	Result
5550.000000	PASS

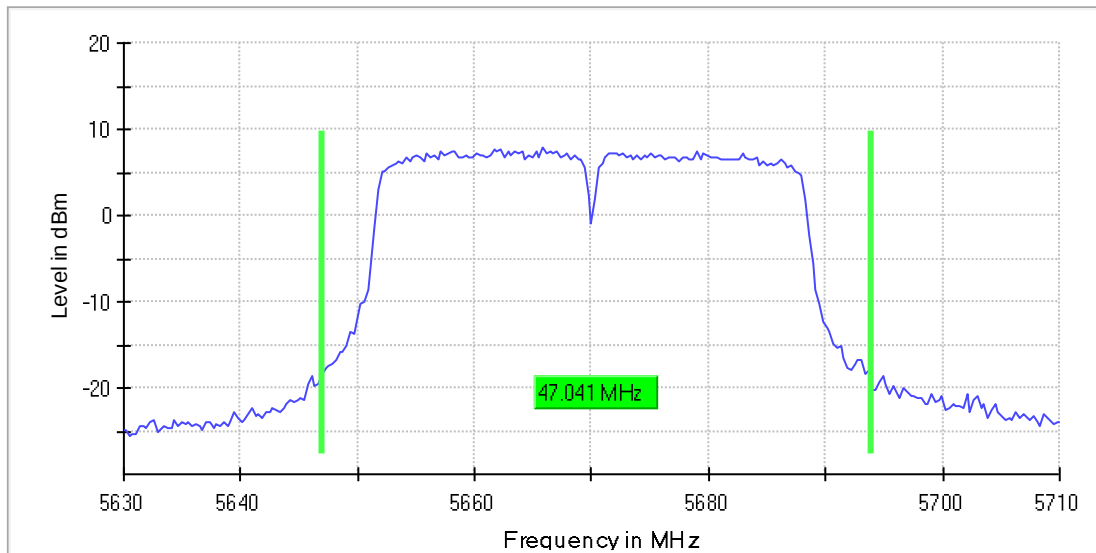




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5670.000000	47.041198	---	---	5646.928839	5693.970037	7.8

DUT Frequency (MHz)	Result
5670.000000	PASS

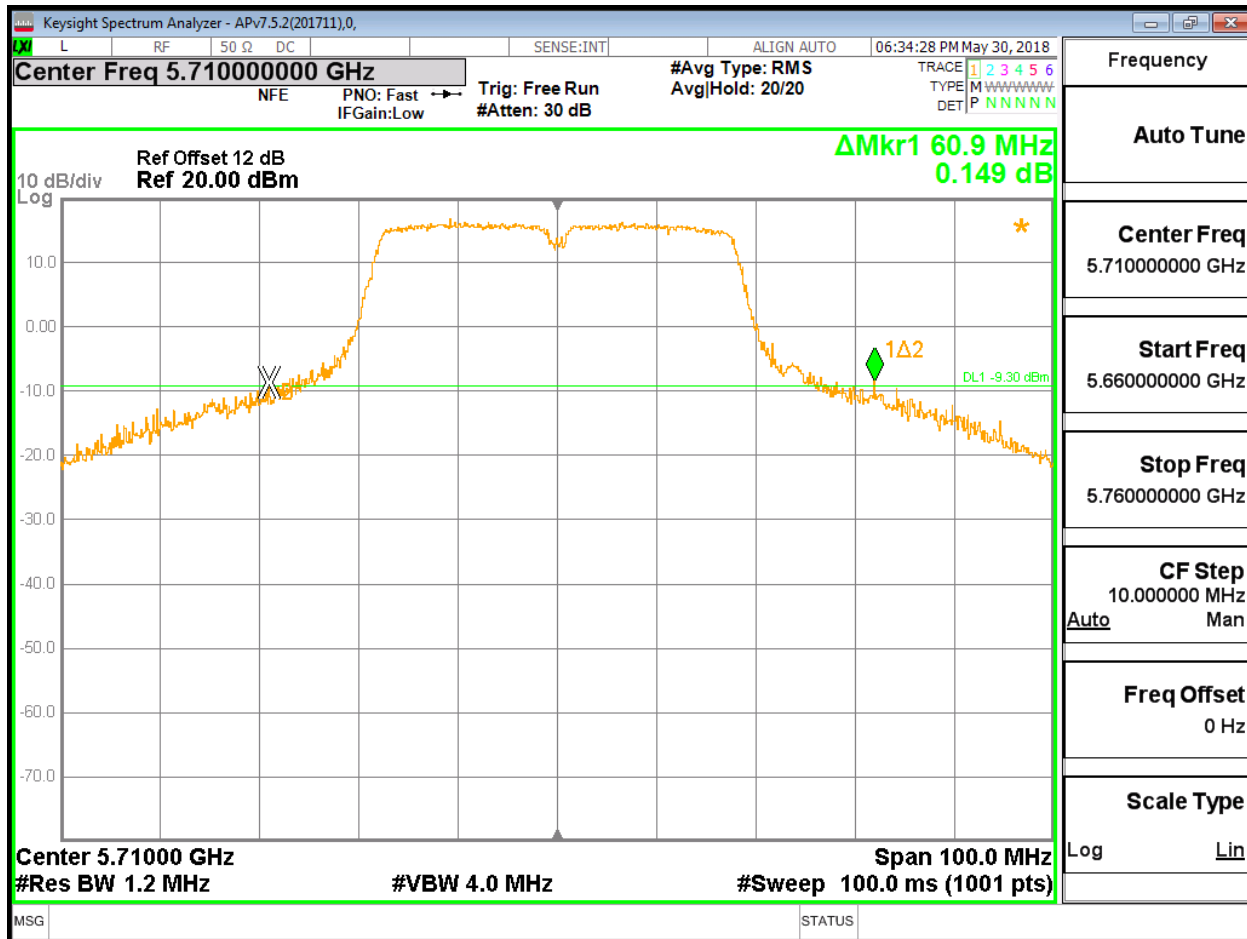




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)
5710.000000	60.900000

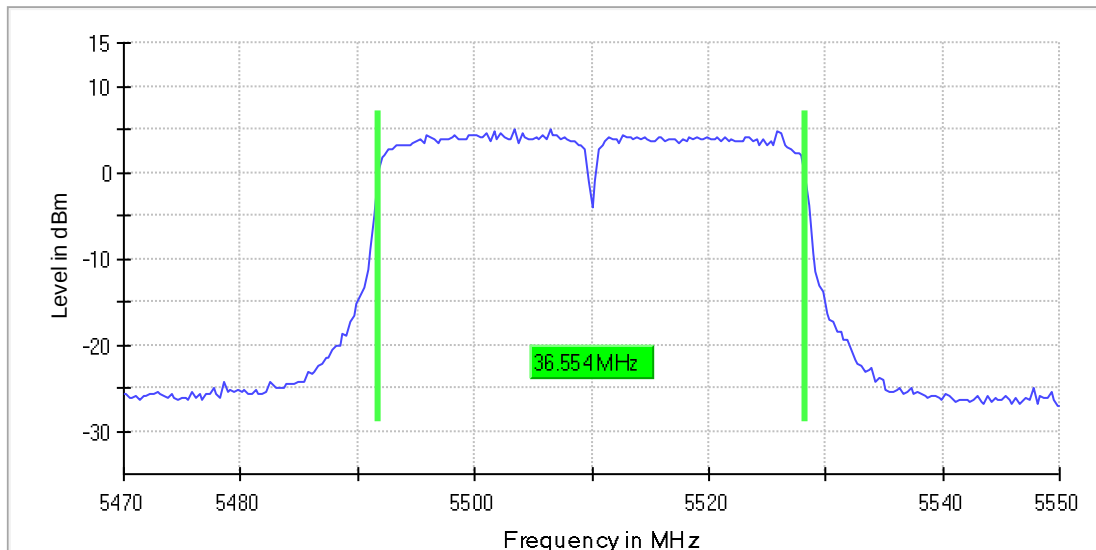
DUT Frequency (MHz)	Result
5710.000000	PASS





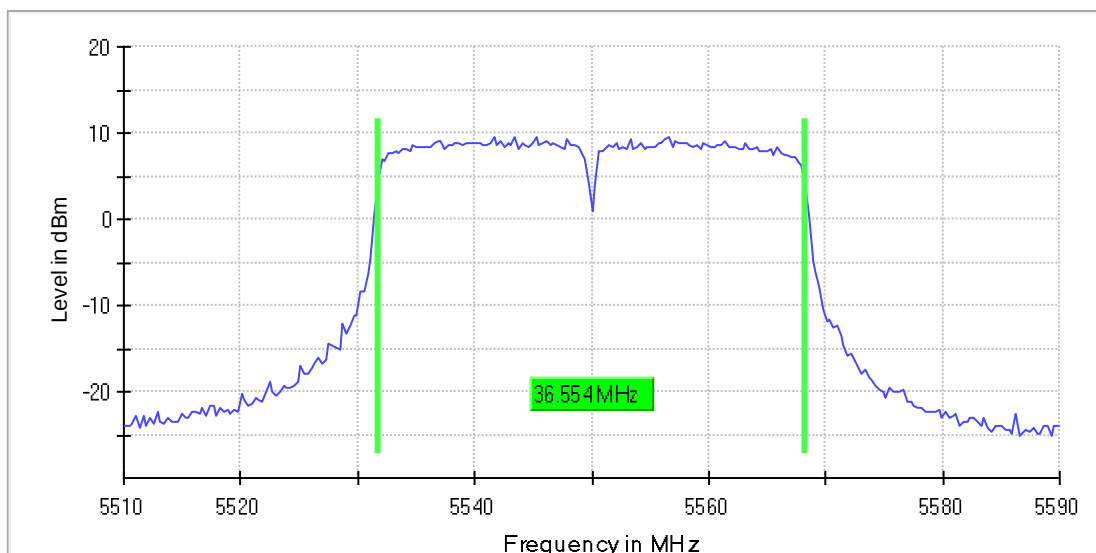
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5510.000000	36.554308	---	---	5491.722846	5528.277154	PASS



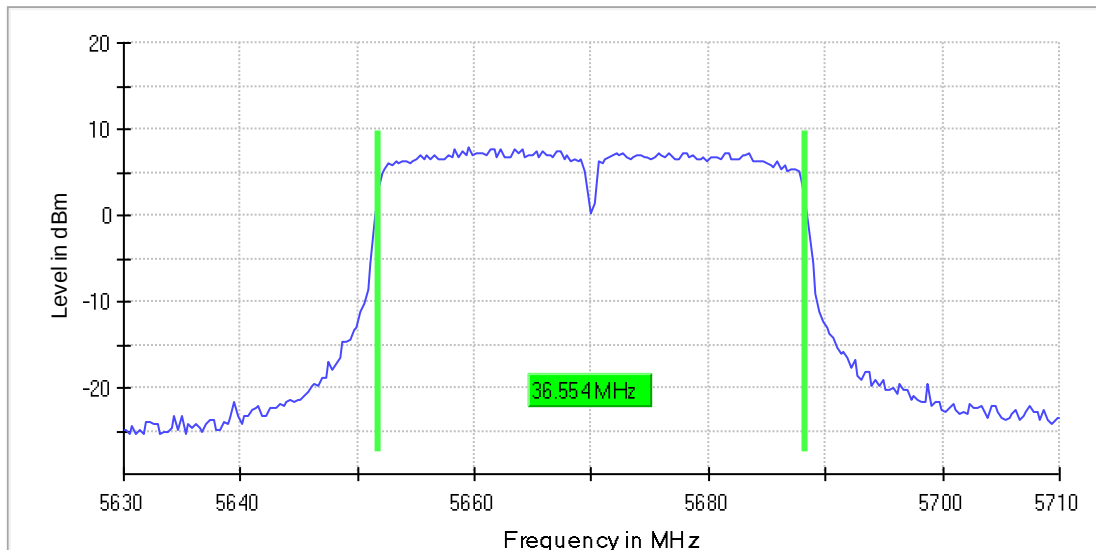
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5550.000000	36.554308	---	---	5531.722846	5568.277154	PASS

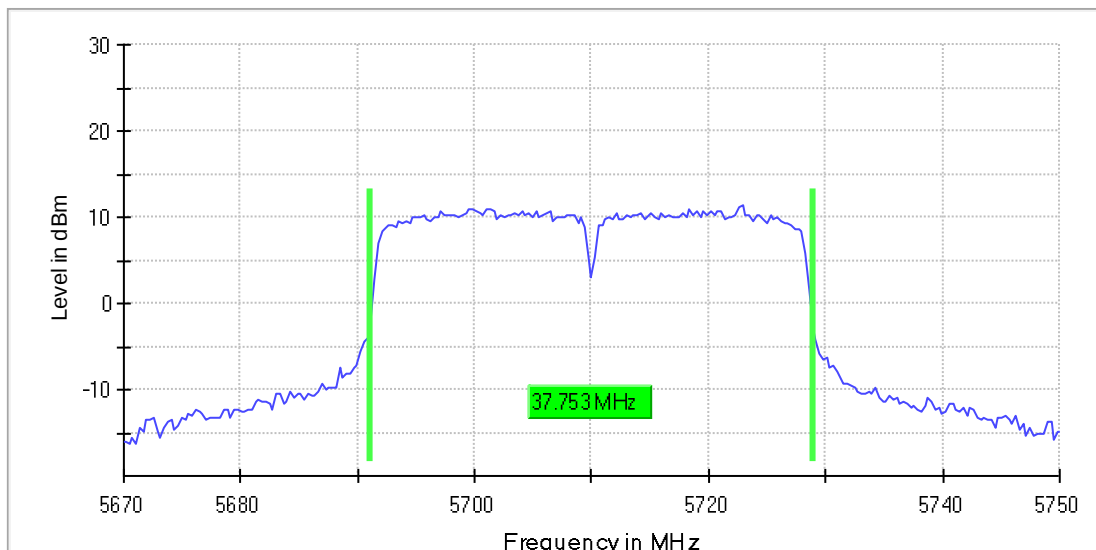


**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5670.000000	36.554308	---	---	5651.722846	5688.277154	PASS

**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5710.000000	37.752808	---	---	5691.123596	5728.876404	PASS



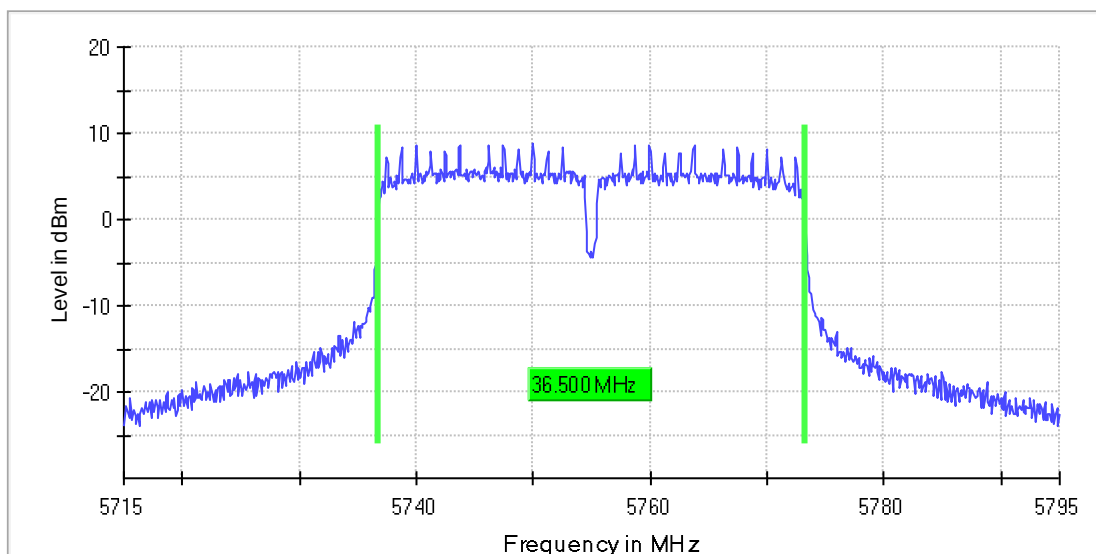


6.2.3.4. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5755.000000	36.500000	0.500000	---	5736.750000	5773.250000	8.9

DUT Frequency (MHz)	Result
5755.000000	PASS

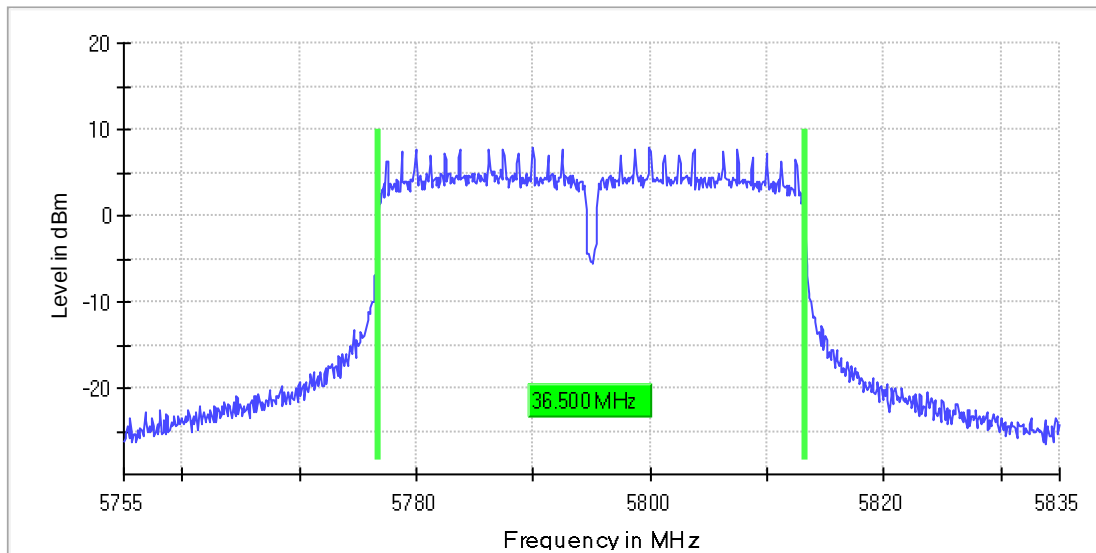




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5795.000000	36.500000	0.500000	---	5776.750000	5813.250000	8.0

DUT Frequency (MHz)	Result
5795.000000	PASS



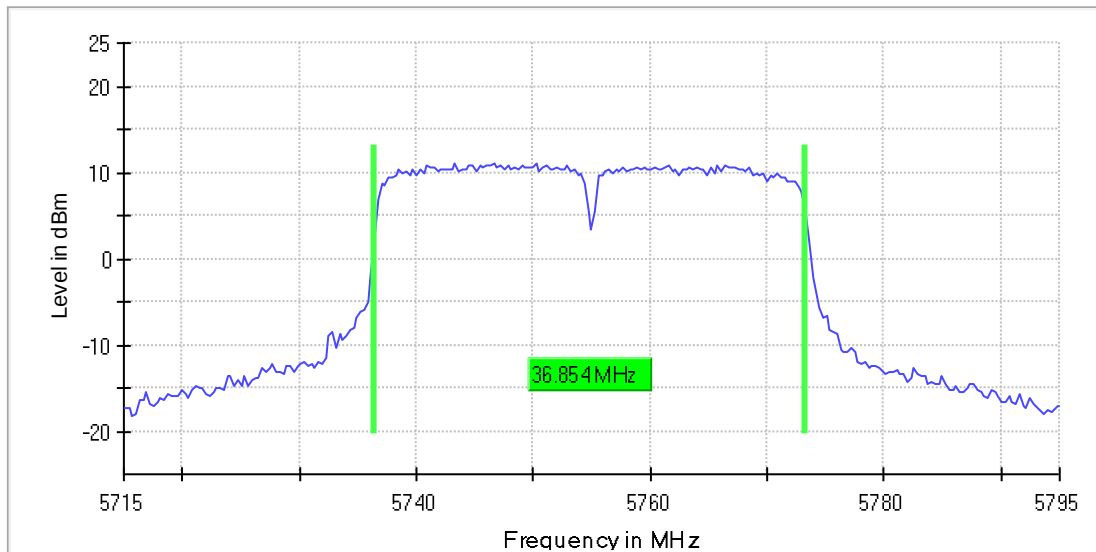
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5710.000000	3.29	0.500000	PASS





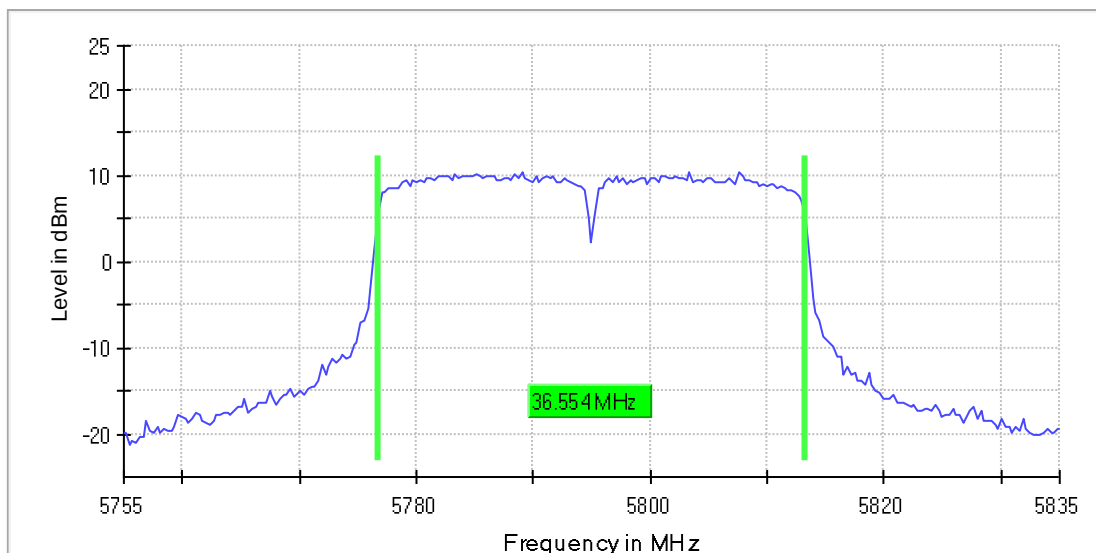
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5755.000000	36.853933	---	---	5736.423221	5773.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5795.000000	36.554308	---	---	5776.722846	5813.277154	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



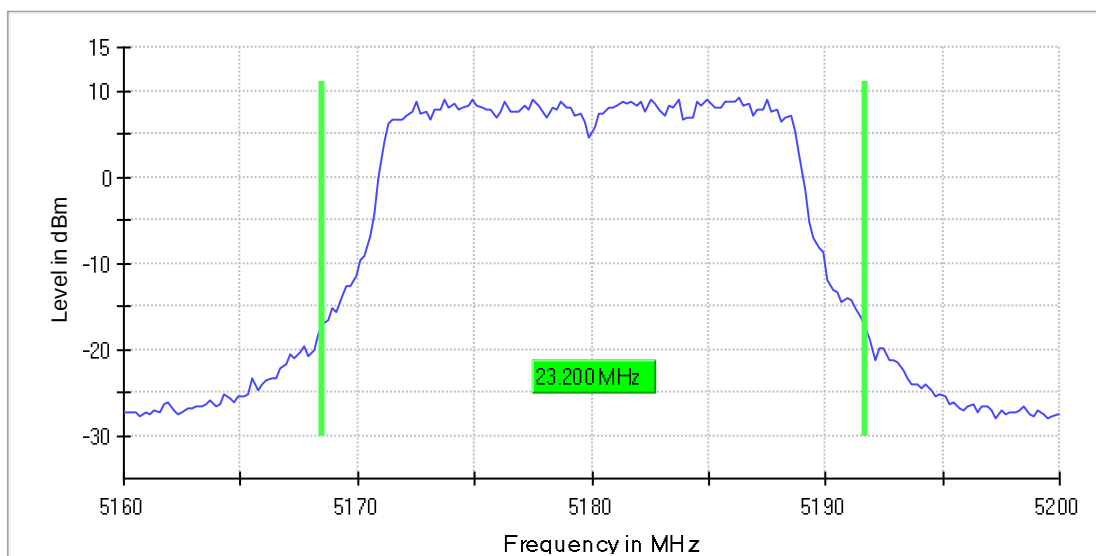
6.2.4. 802.11ac HT20 SISO MODE

6.2.4.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5180.000000	23.200000	---	---	5168.500000	5191.700000	9.1

DUT Frequency (MHz)	Result
5180.000000	PASS

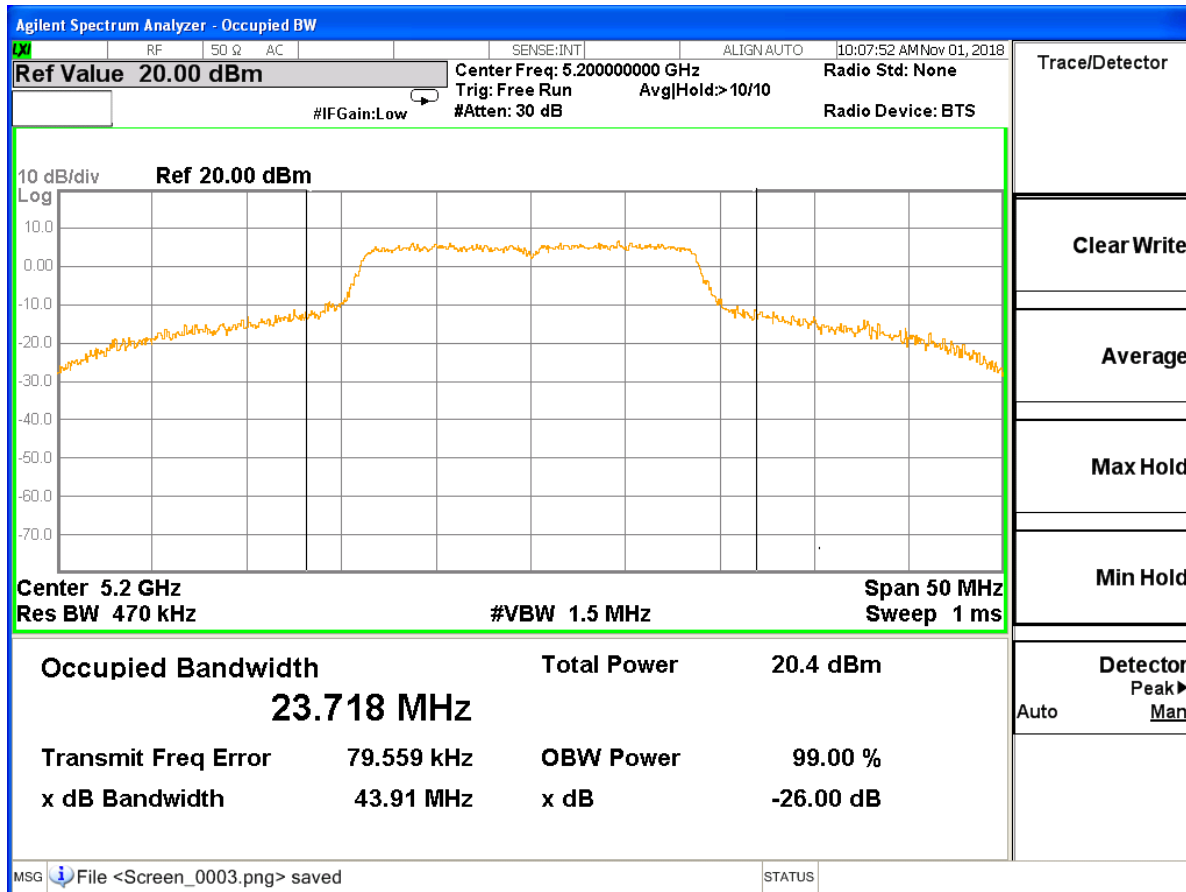




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)
5200.000000	43.910000	---	---

DUT Frequency (MHz)	Result
5200.000000	PASS

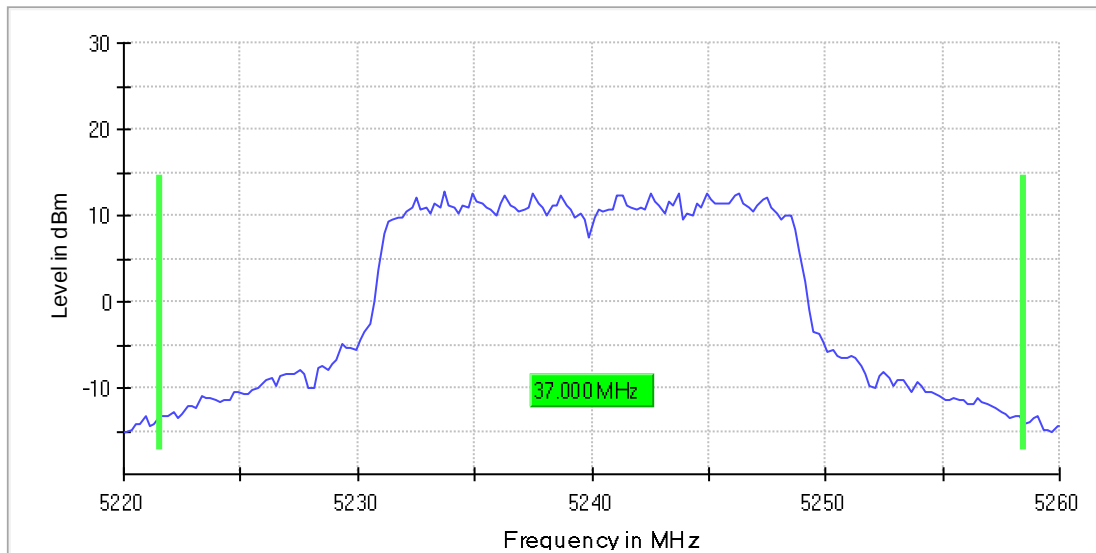




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5240.000000	37.000000	---	---	5221.500000	5258.500000	12.700

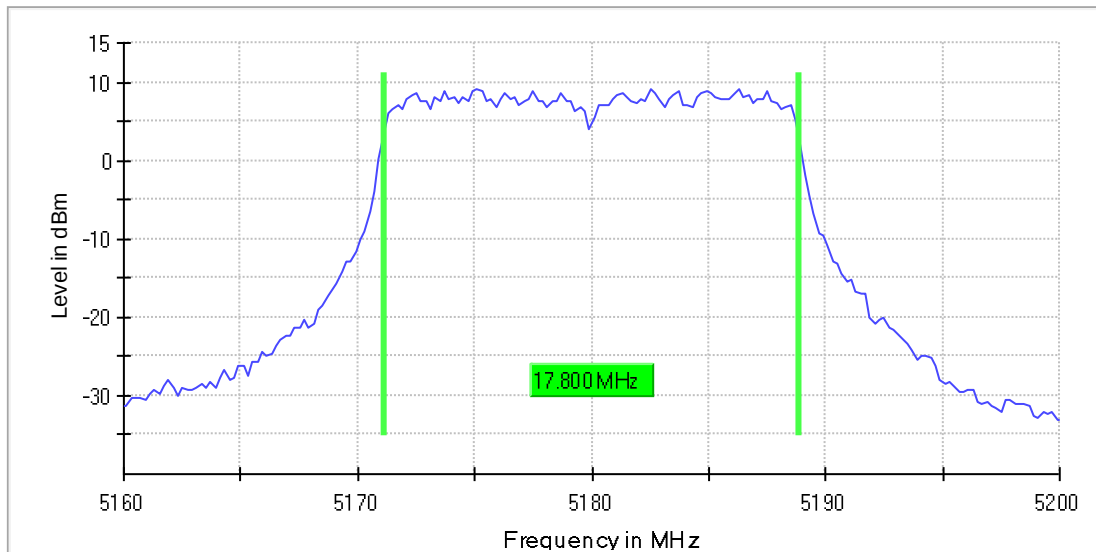
DUT Frequency (MHz)	Result
5240.000000	PASS





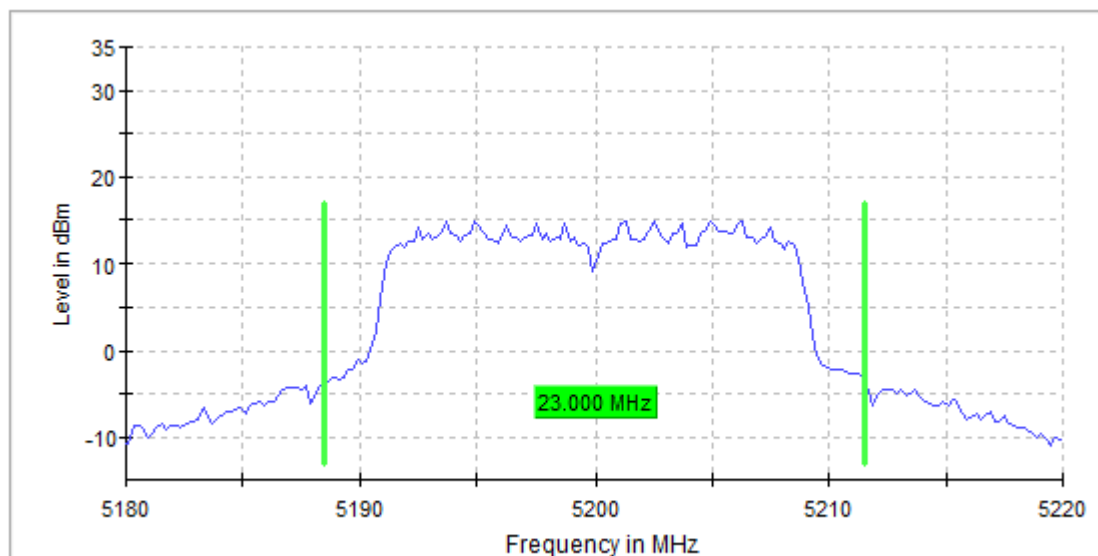
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5180.000000	17.800000	---	---	5171.100000	5188.900000	PASS



99 % Bandwidth

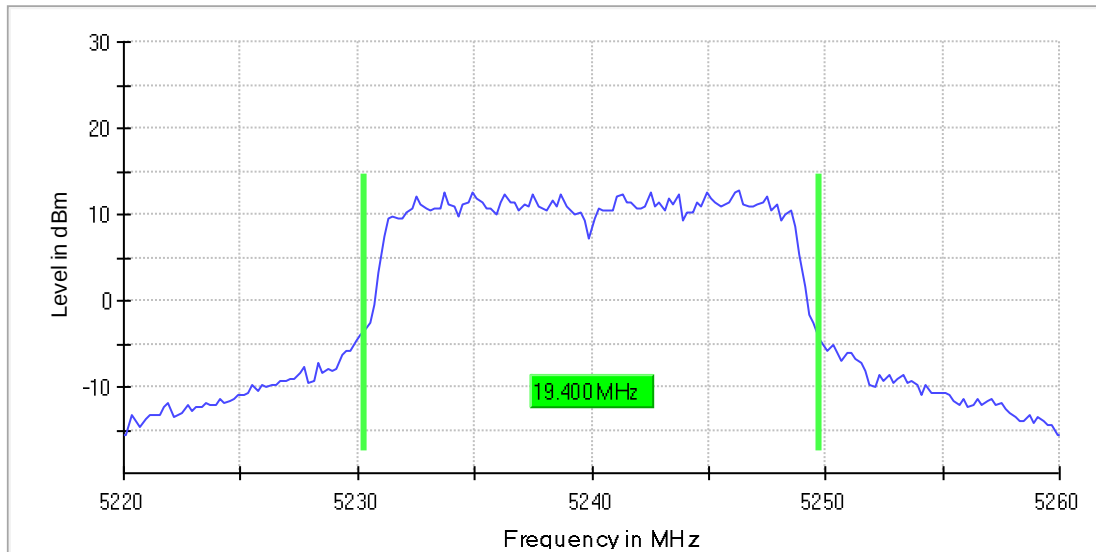
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5200.000000	23.000000	---	---	5188.500000	5211.500000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5240.000000	19.400000	---	---	5230.300000	5249.700000	PASS



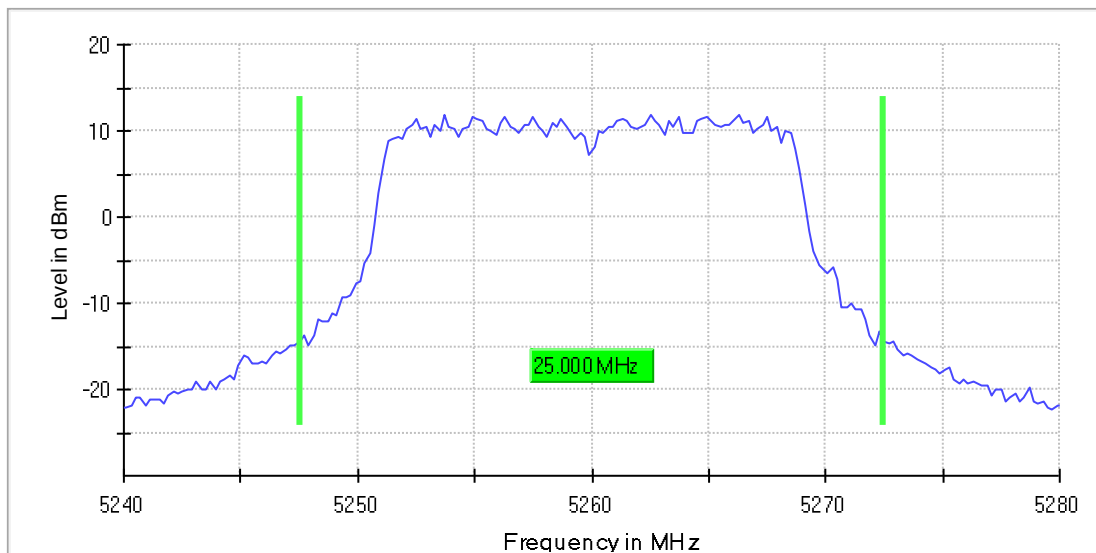


6.2.4.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5260.000000	25.000000	---	---	5247.500000	5272.500000	11.8

DUT Frequency (MHz)	Result
5260.000000	PASS

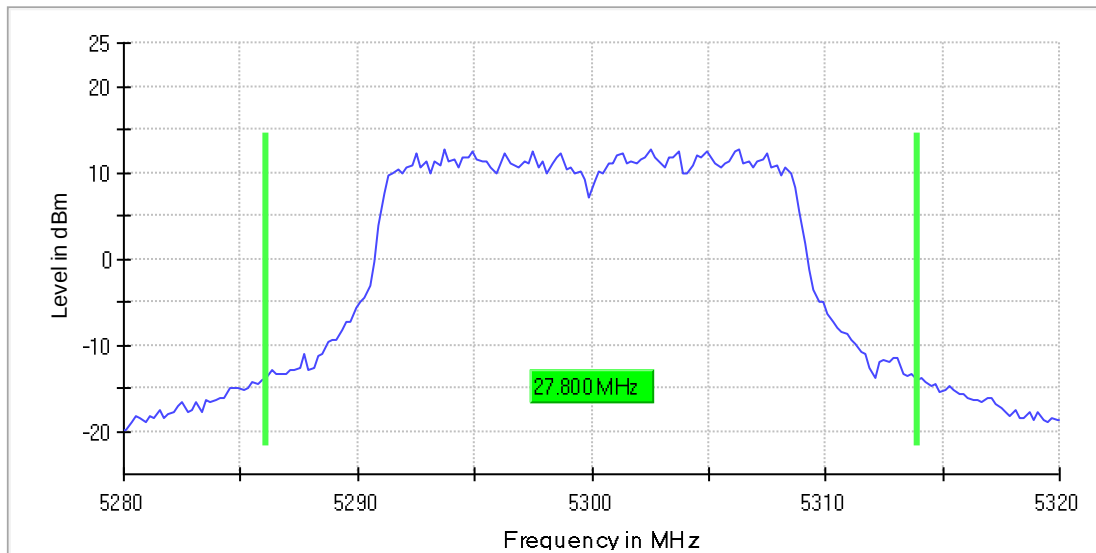




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5300.000000	27.800000	---	---	5286.100000	5313.900000	12.6

DUT Frequency (MHz)	Result
5300.000000	PASS

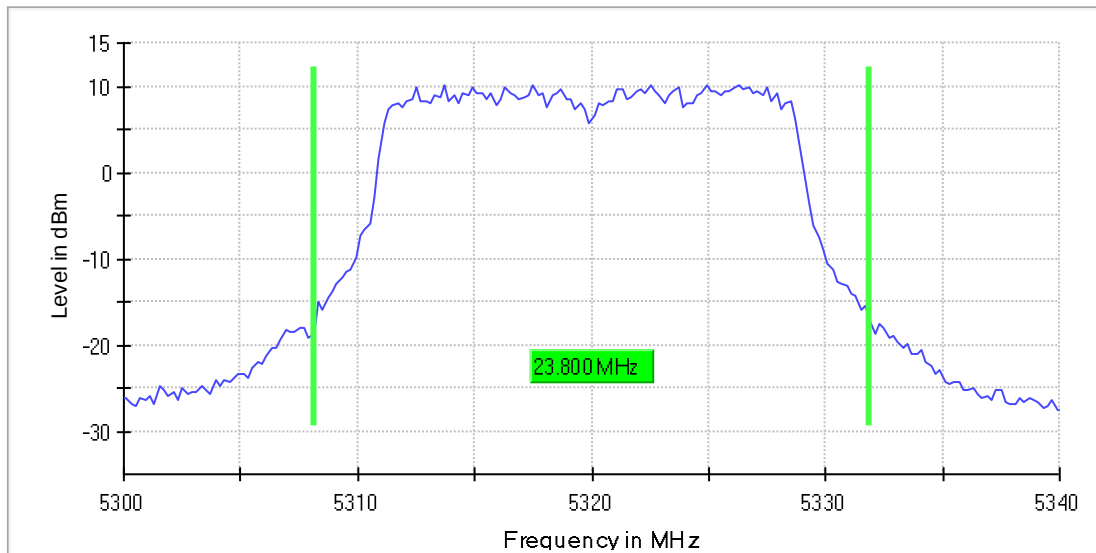




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5320.000000	23.800000	---	---	5308.100000	5331.900000	10.2

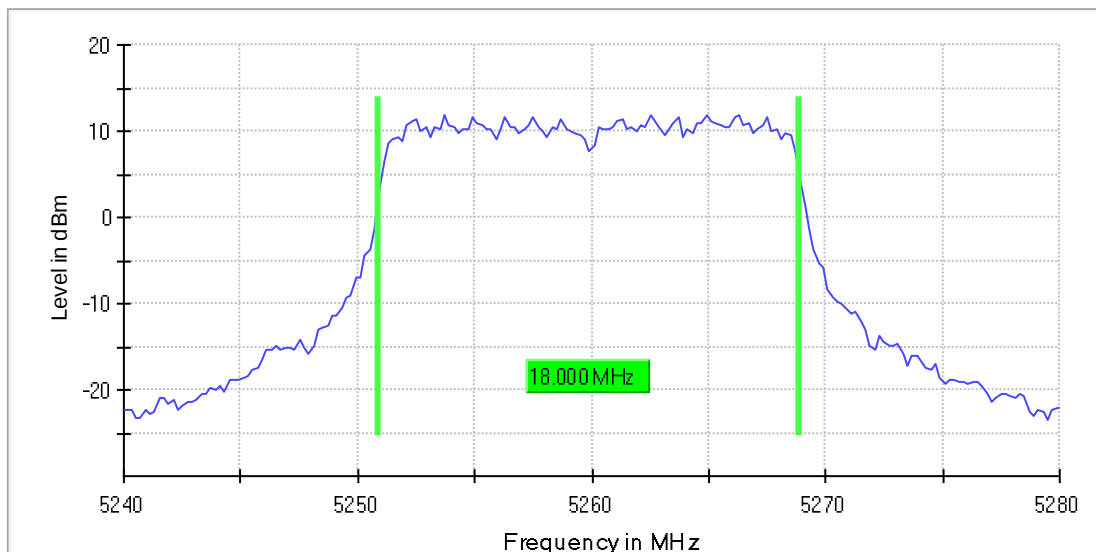
DUT Frequency (MHz)	Result
5320.000000	PASS





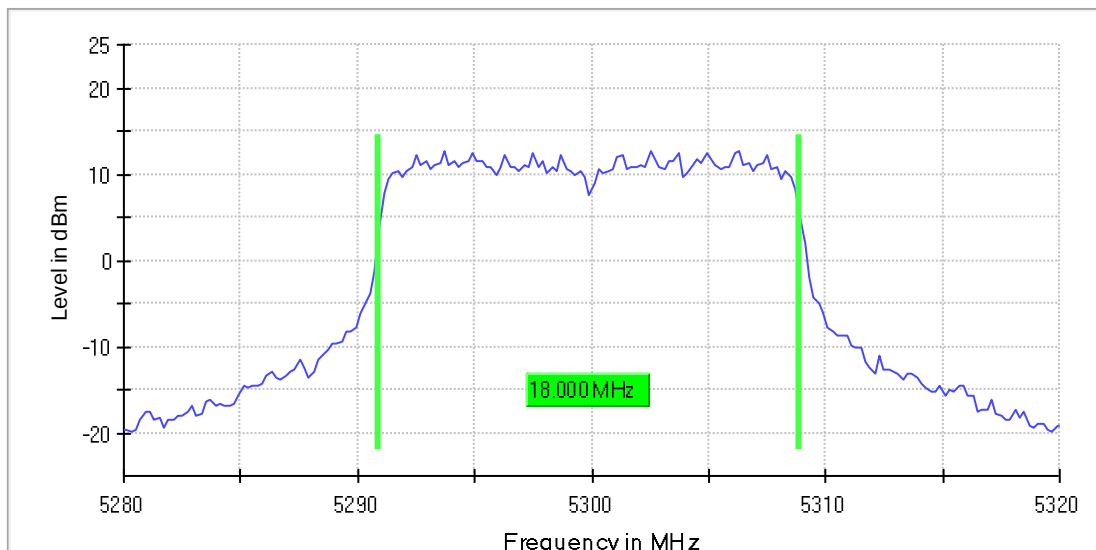
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5260.000000	18.000000	---	---	5250.900000	5268.900000	PASS



99 % Bandwidth

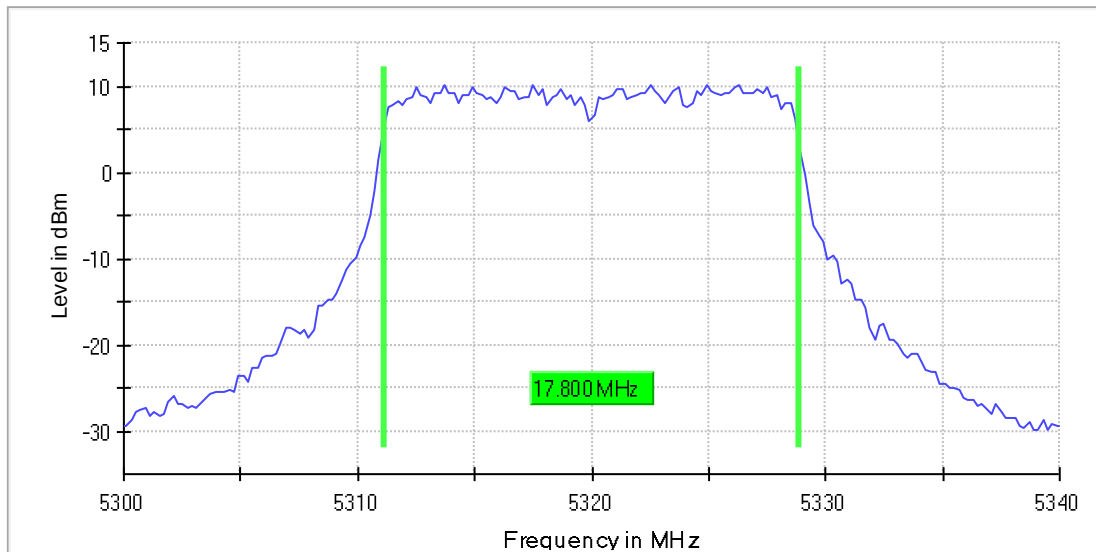
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5300.000000	18.000000	---	---	5290.900000	5308.900000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5320.000000	17.800000	---	---	5311.100000	5328.900000	PASS



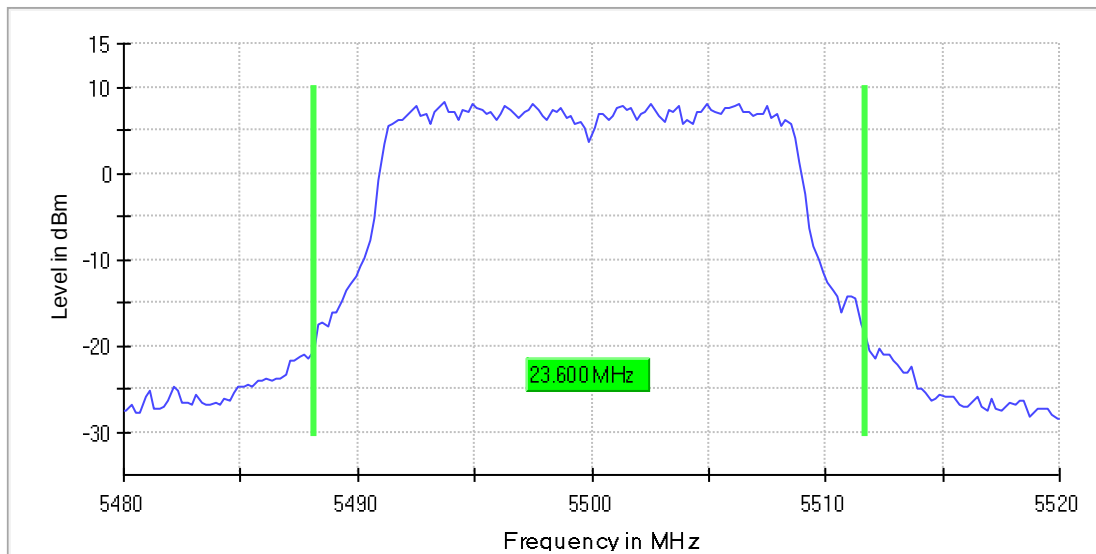


6.2.4.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5500.000000	23.600000	---	---	5488.100000	5511.700000	8.2

DUT Frequency (MHz)	Result
5500.000000	PASS

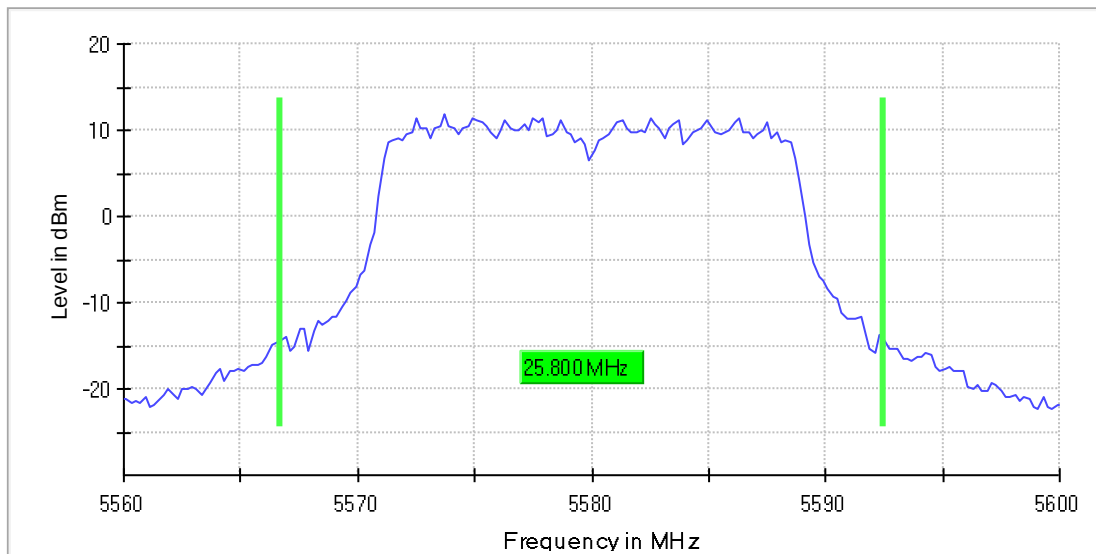




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5580.000000	25.800000	---	---	5566.700000	5592.500000	11.8

DUT Frequency (MHz)	Result
5580.000000	PASS

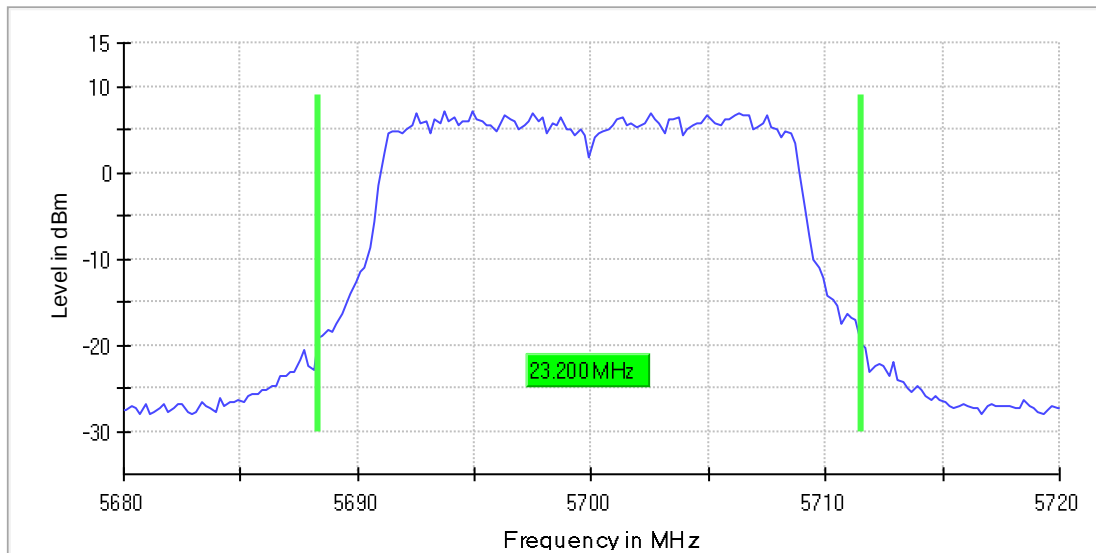




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5700.000000	23.200000	---	---	5688.300000	5711.500000	7.1

DUT Frequency (MHz)	Result
5700.000000	PASS

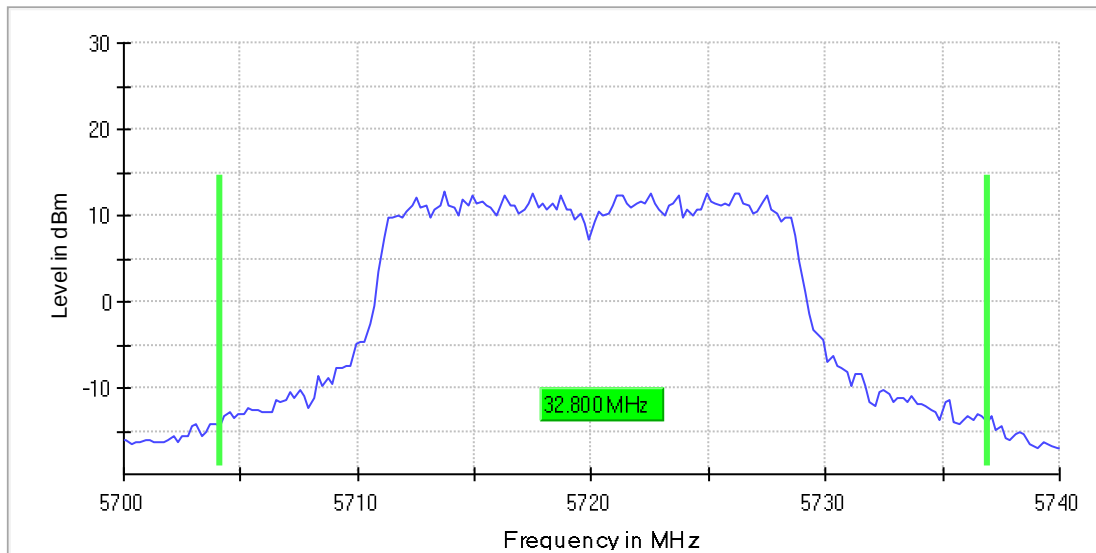




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5720.000000	32.800000	---	---	5704.100000	5736.900000	12.7

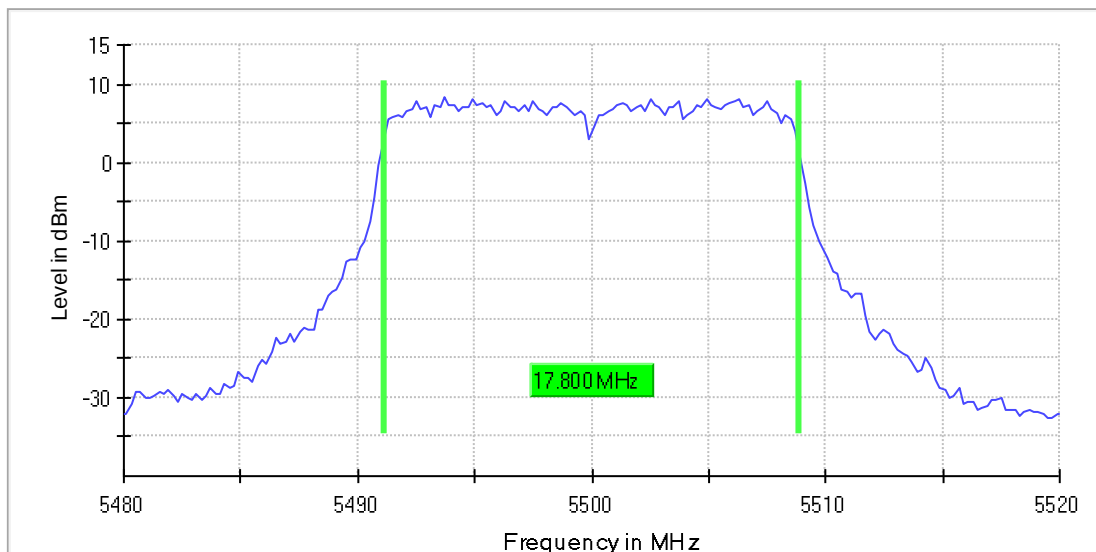
DUT Frequency (MHz)	Result
5720.000000	PASS





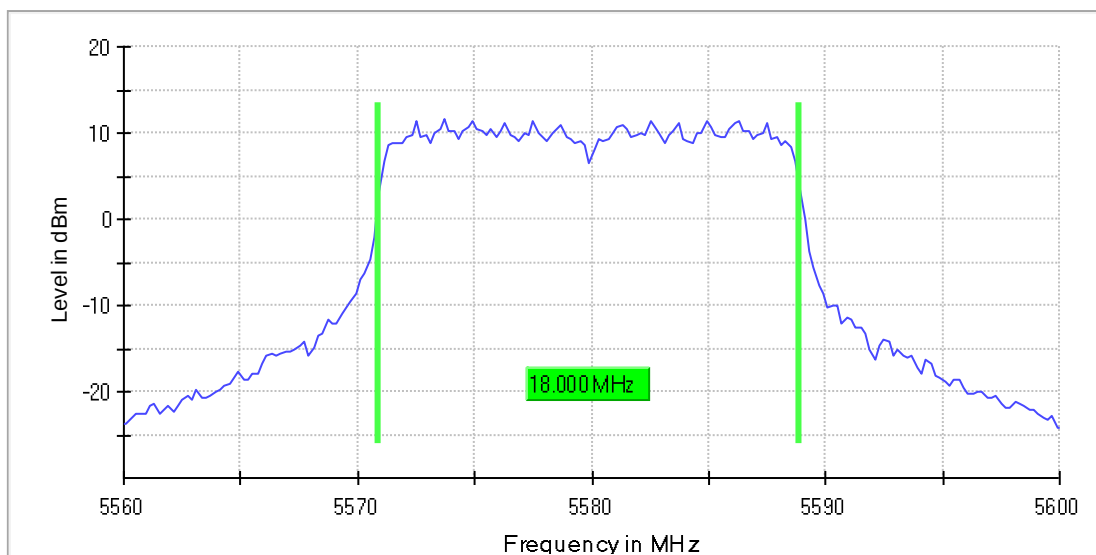
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5500.000000	17.800000	---	---	5491.100000	5508.900000	PASS



99 % Bandwidth

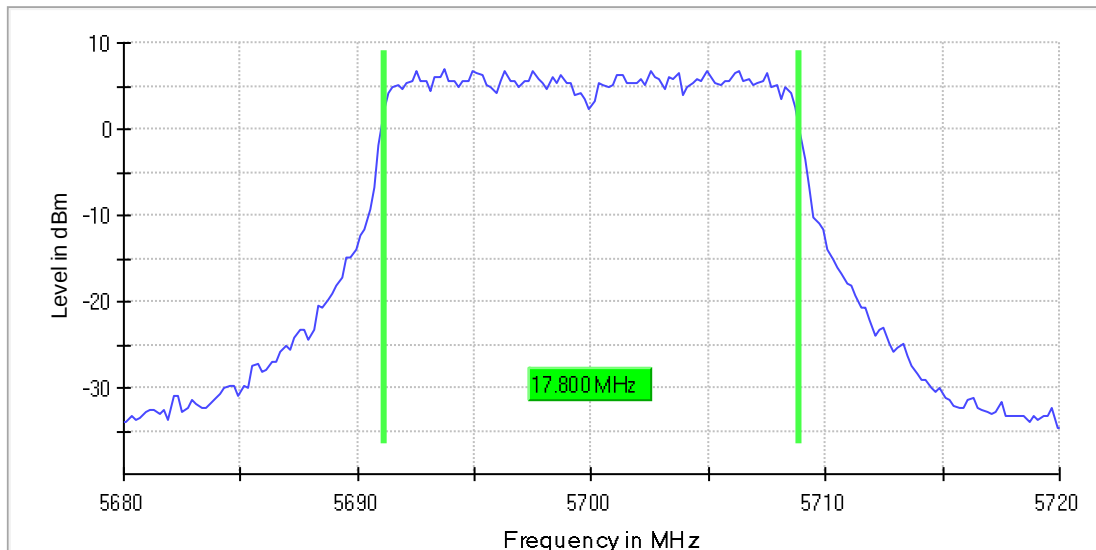
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5580.000000	18.000000	---	---	5570.900000	5588.900000	PASS





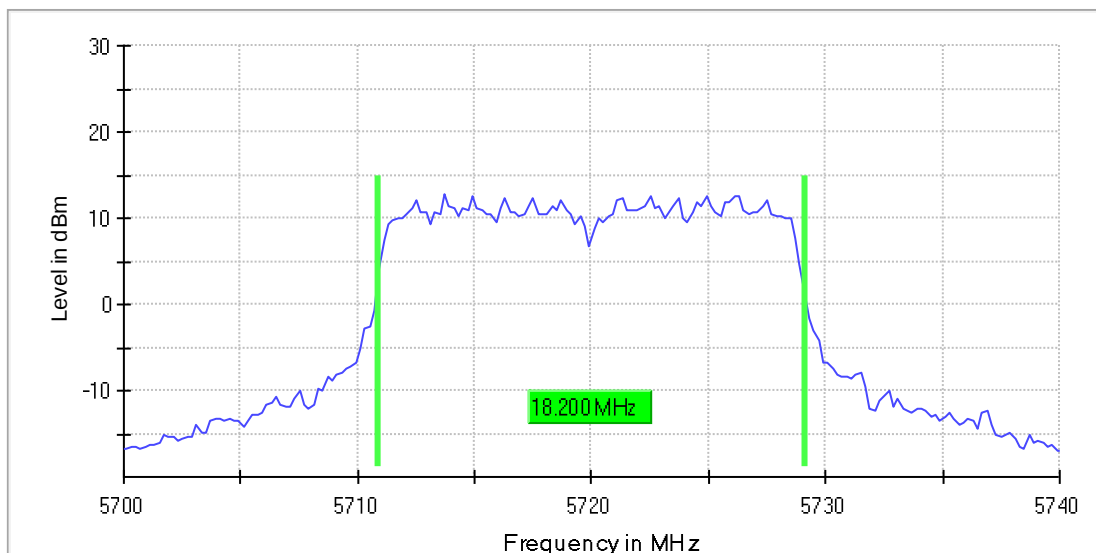
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5700.000000	17.800000	---	---	5691.100000	5708.900000	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5720.000000	18.200000	---	---	5710.900000	5729.100000	PASS



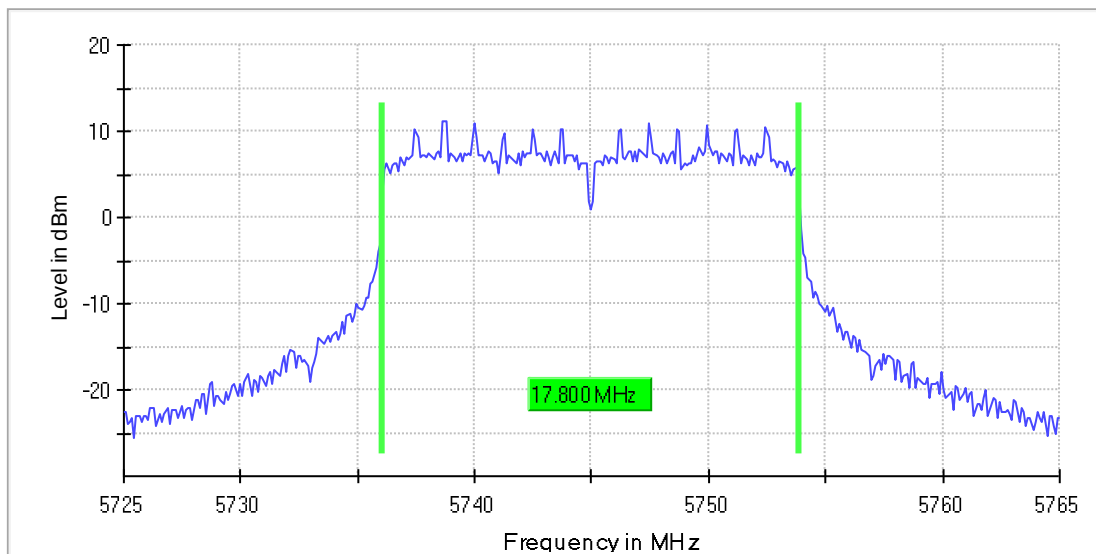


6.2.4.4. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5745.000000	17.800000	0.500000	---	5736.050000	5753.850000	11.2

DUT Frequency (MHz)	Result
5745.000000	PASS

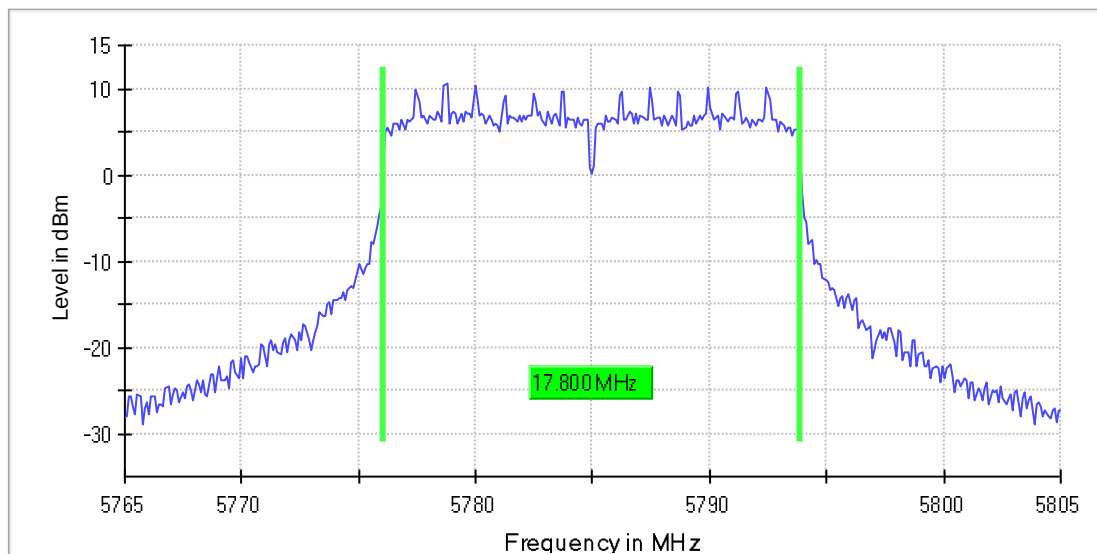




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5785.000000	17.800000	0.500000	---	5776.050000	5793.850000	10.5

DUT Frequency (MHz)	Result
5785.000000	PASS

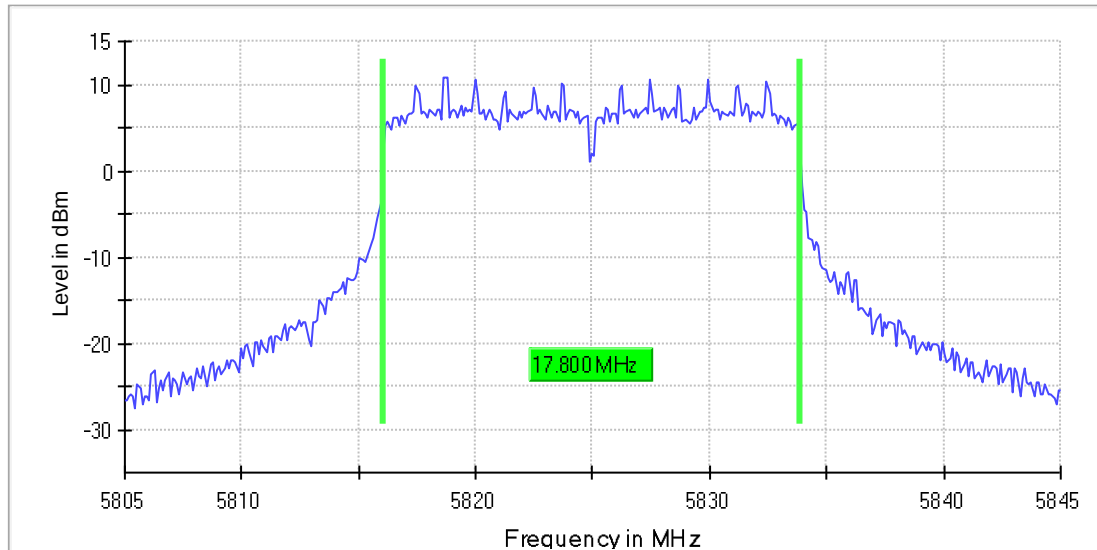




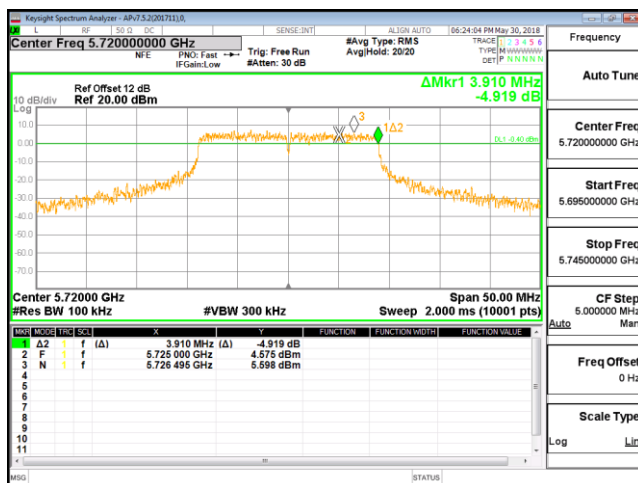
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5825.000000	17.800000	0.500000	---	5816.050000	5833.850000	10.8

DUT Frequency (MHz)	Result
5825.000000	PASS



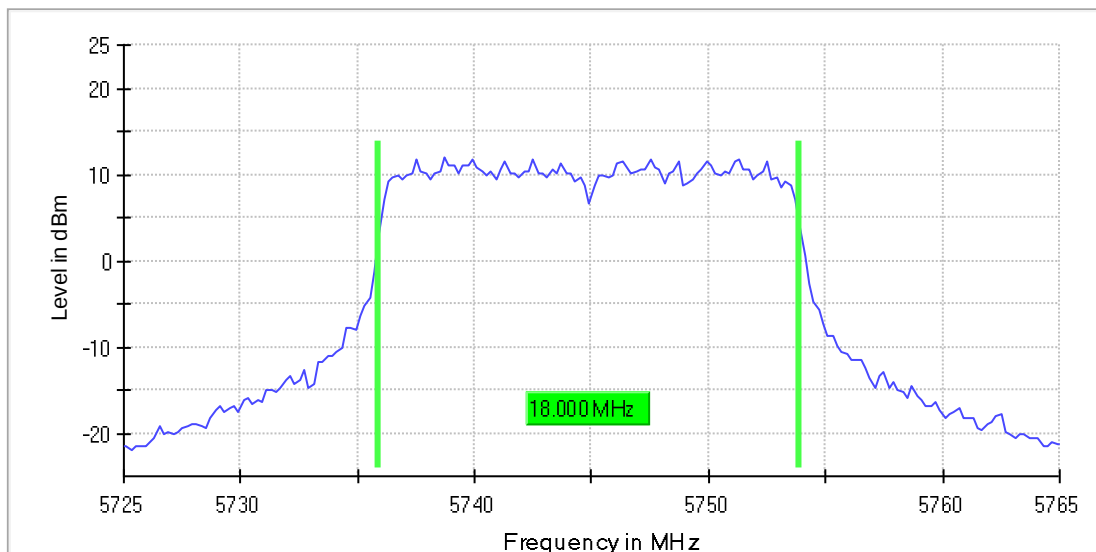
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5720.000000	3.91	0.500000	PASS





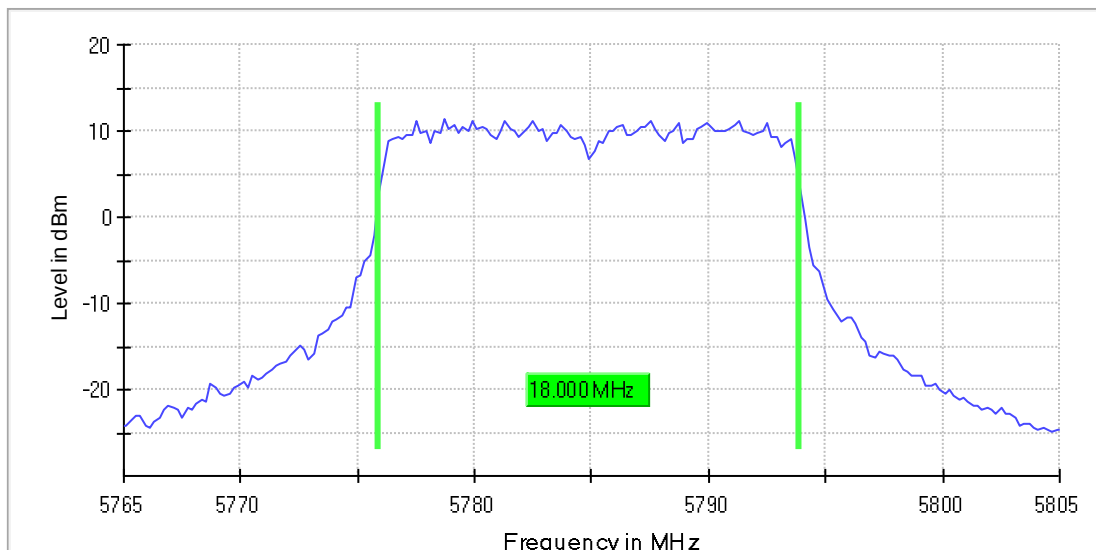
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5745.000000	18.000000	---	---	5735.900000	5753.900000	PASS



99 % Bandwidth

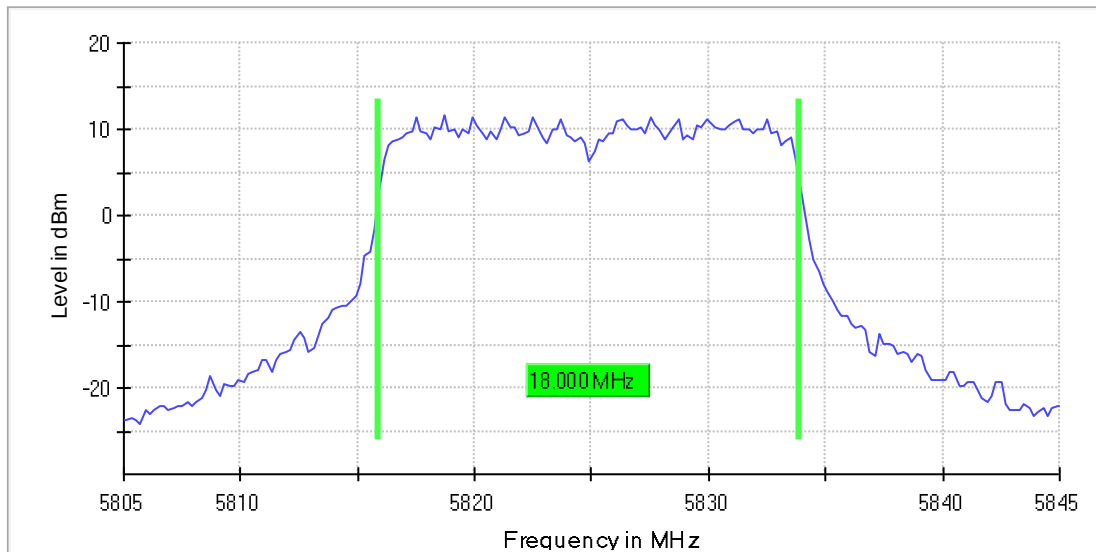
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5785.000000	18.000000	---	---	5775.900000	5793.900000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5825.000000	18.000000	---	---	5815.900000	5833.900000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



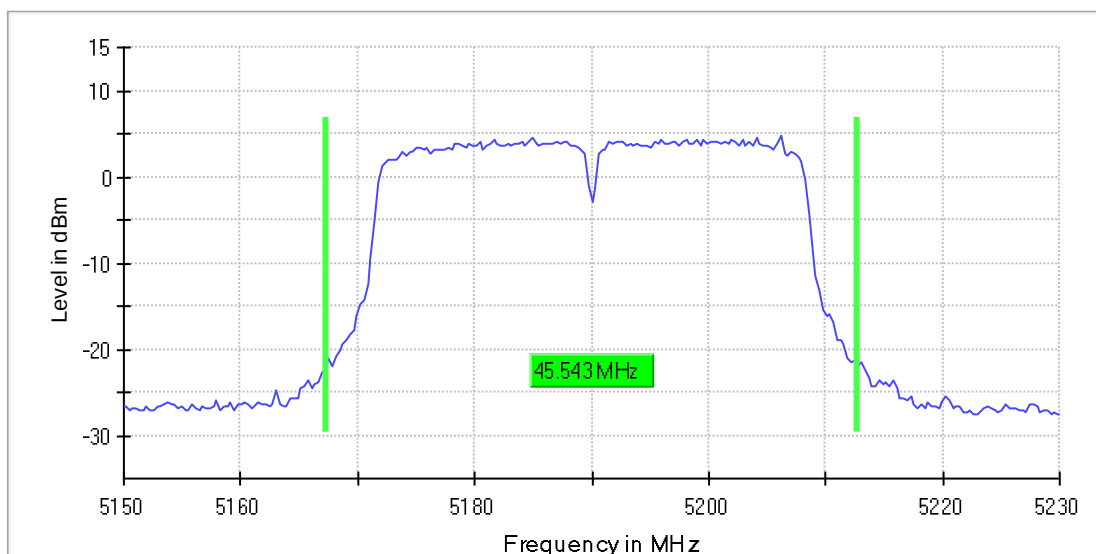
6.2.5. 802.11ac HT40 SISO MODE

6.2.5.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5190.000000	45.543072	---	---	5167.228464	5212.771536	4.8

DUT Frequency (MHz)	Result
5190.000000	PASS

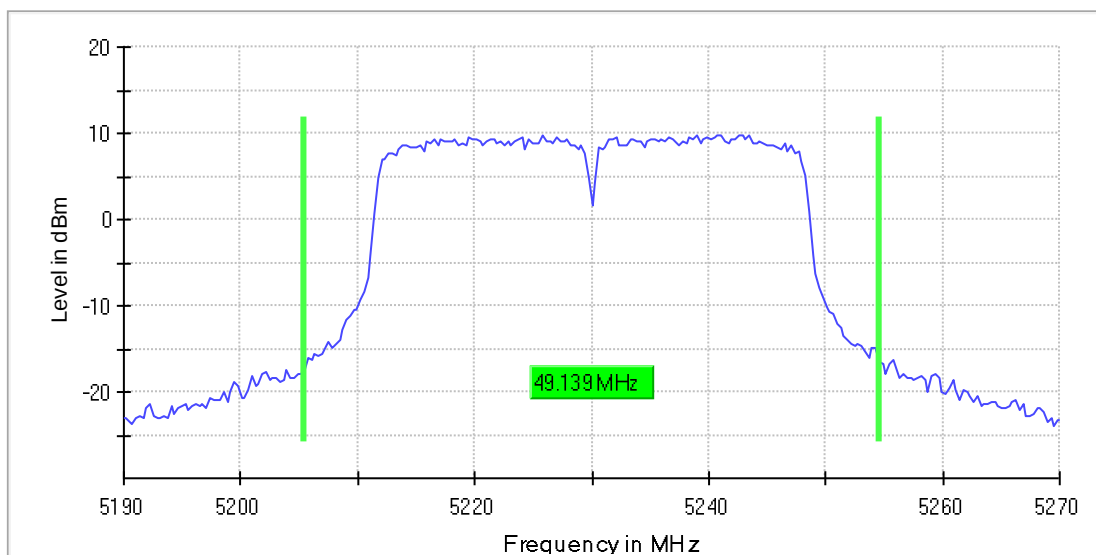




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5230.000000	49.138576	---	---	5205.430712	5254.569288	9.9

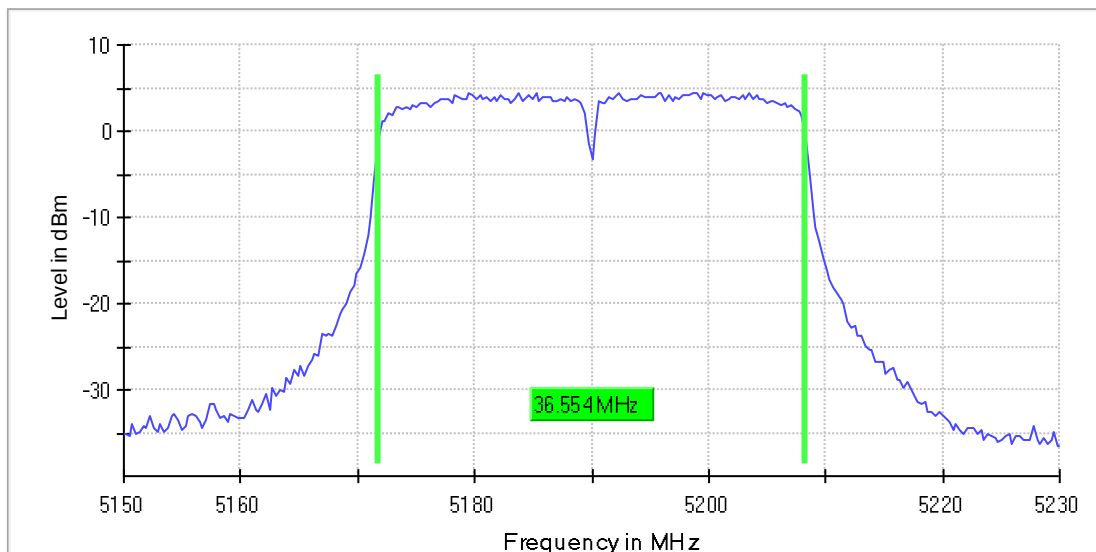
DUT Frequency (MHz)	Result
5230.000000	PASS





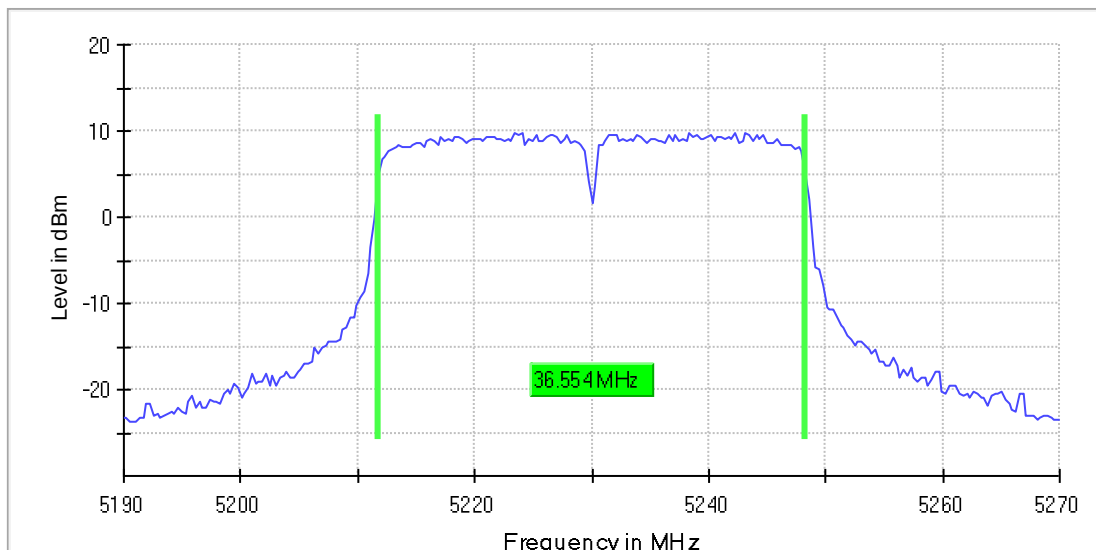
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5190.000000	36.554308	---	---	5171.722846	5208.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5230.000000	36.554308	---	---	5211.722846	5248.277154	PASS



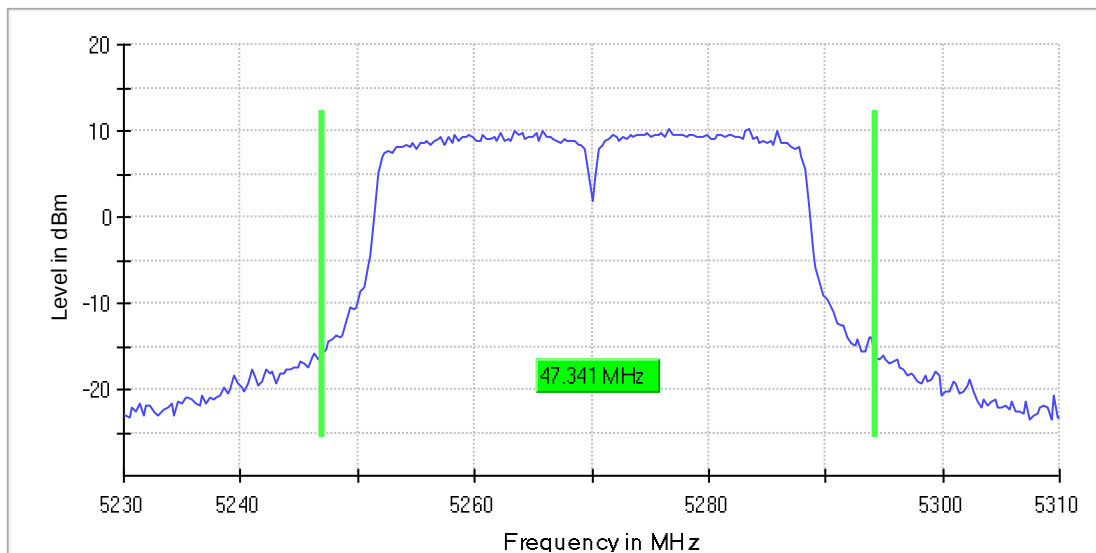


6.2.5.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5270.000000	47.340824	---	---	5246.928839	5294.269663	10.3

DUT Frequency (MHz)	Result
5270.000000	PASS

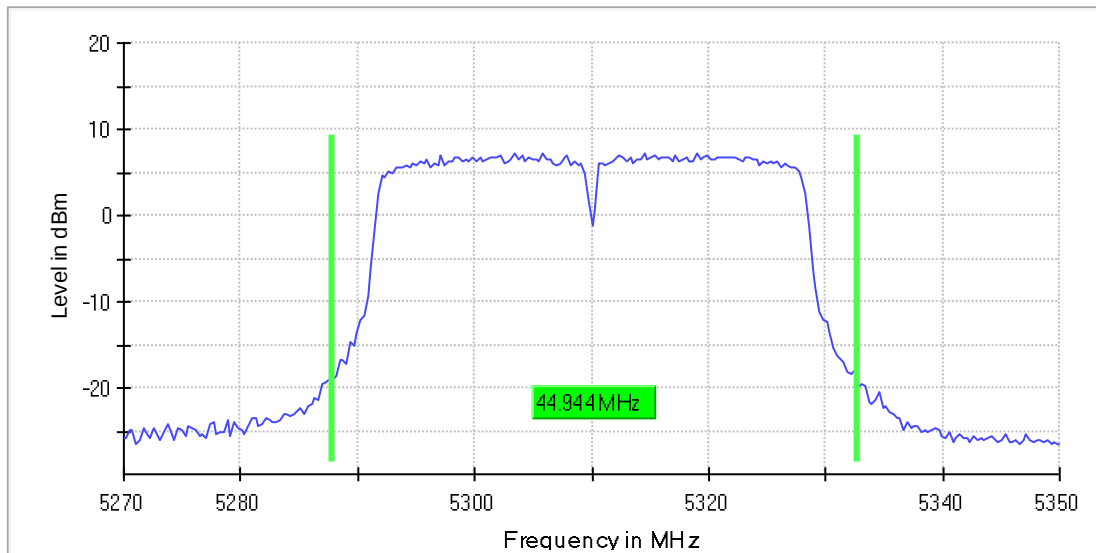




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5310.000000	44.943821	---	---	5287.827715	5332.771536	7.3

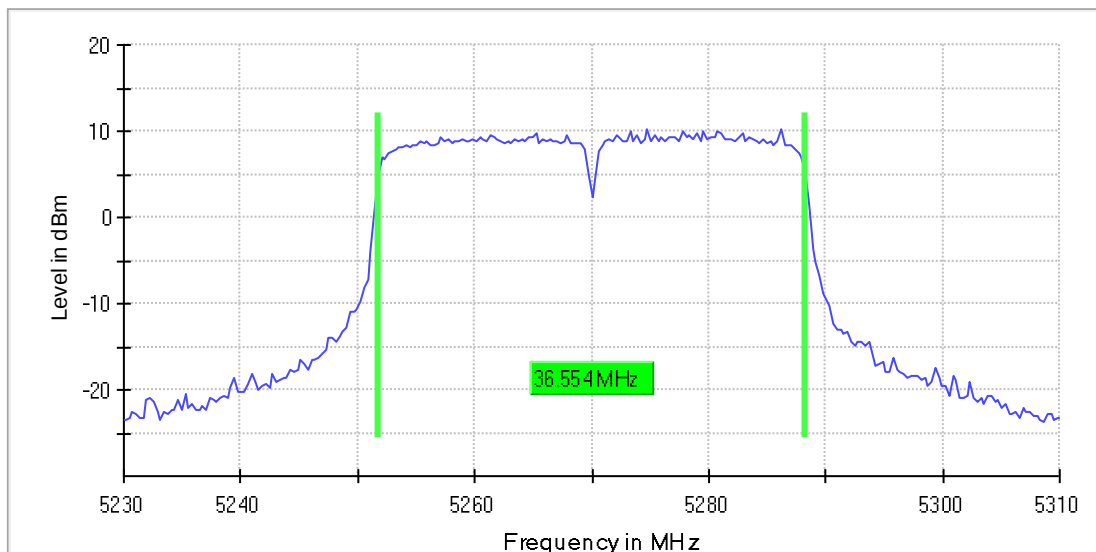
DUT Frequency (MHz)	Result
5310.000000	PASS





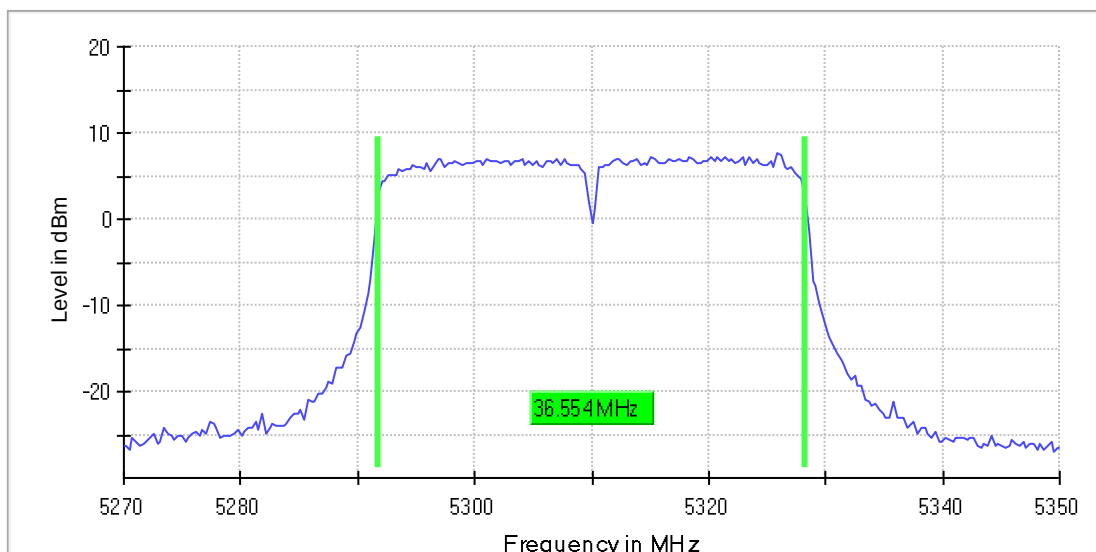
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5270.000000	36.554308	---	---	5251.722846	5288.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5310.000000	36.554308	---	---	5291.722846	5328.277154	PASS



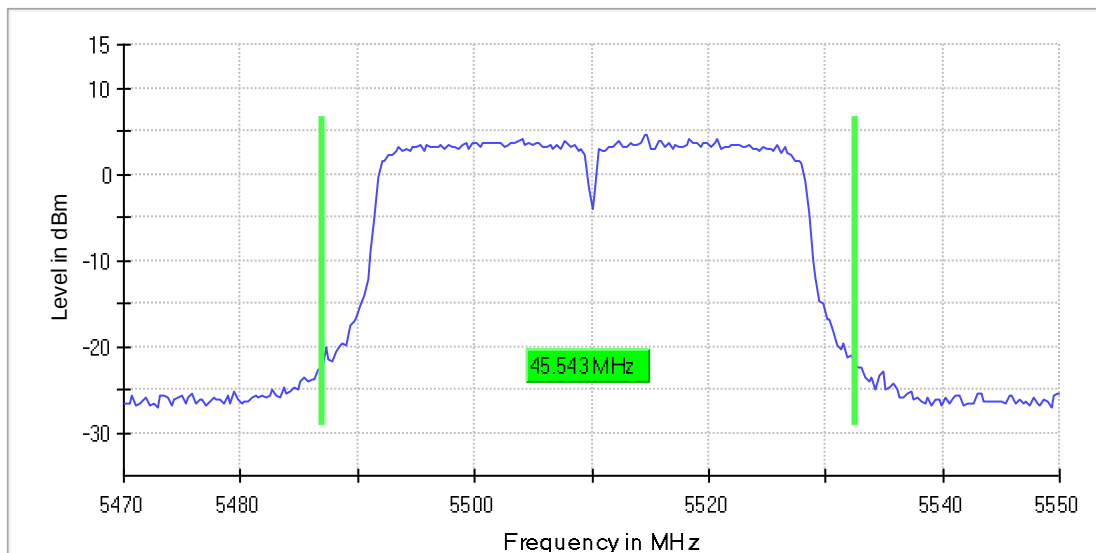


6.2.5.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5510.000000	45.543071	---	---	5486.928839	5532.471910	4.6

DUT Frequency (MHz)	Result
5510.000000	PASS

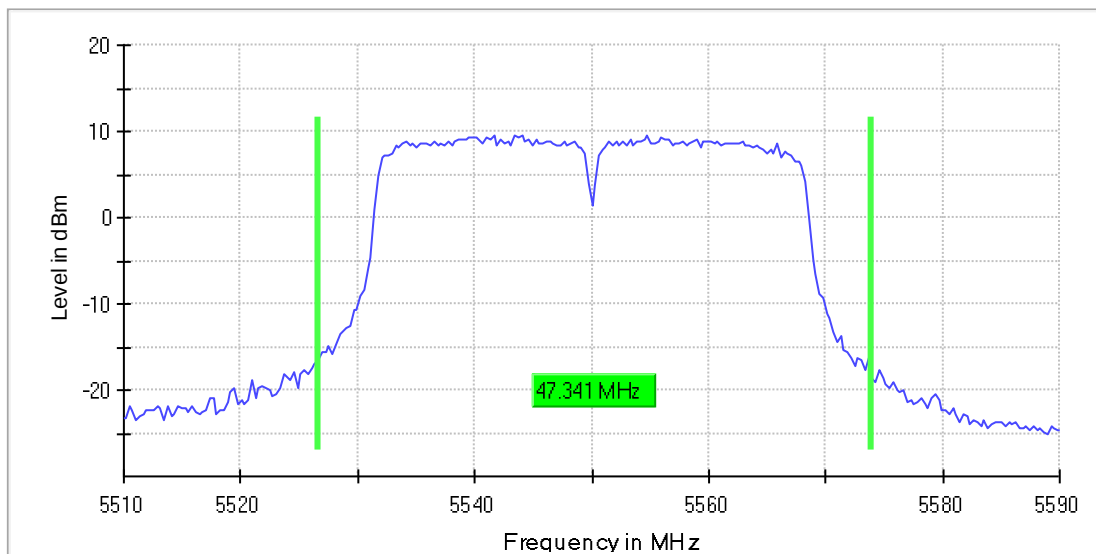




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5550.000000	47.340824	---	---	5526.629213	5573.970037	9.6

DUT Frequency (MHz)	Result
5550.000000	PASS

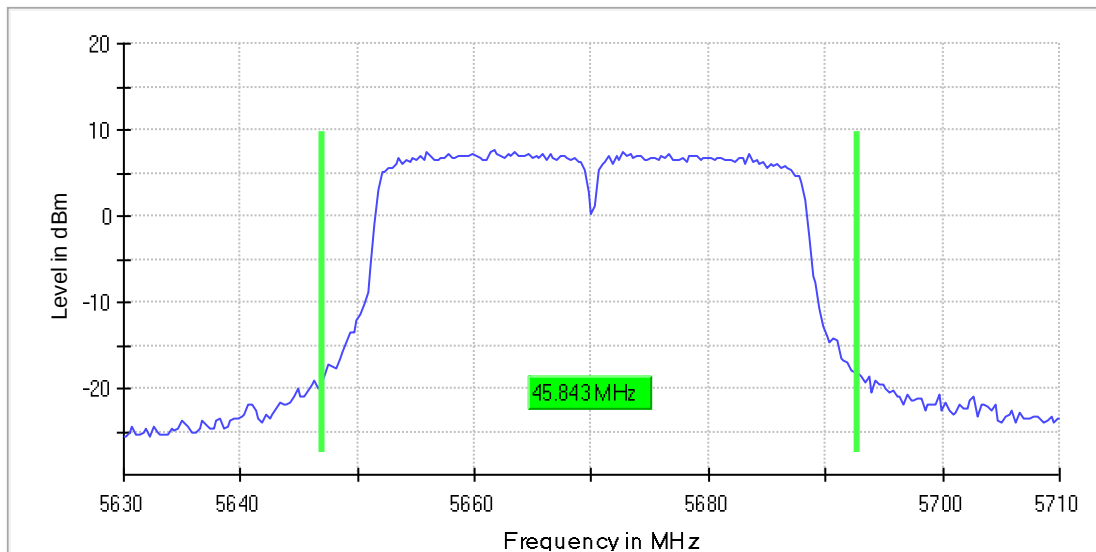




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5670.000000	45.842697	---	---	5646.928839	5692.771536	7.8

DUT Frequency (MHz)	Result
5670.000000	PASS

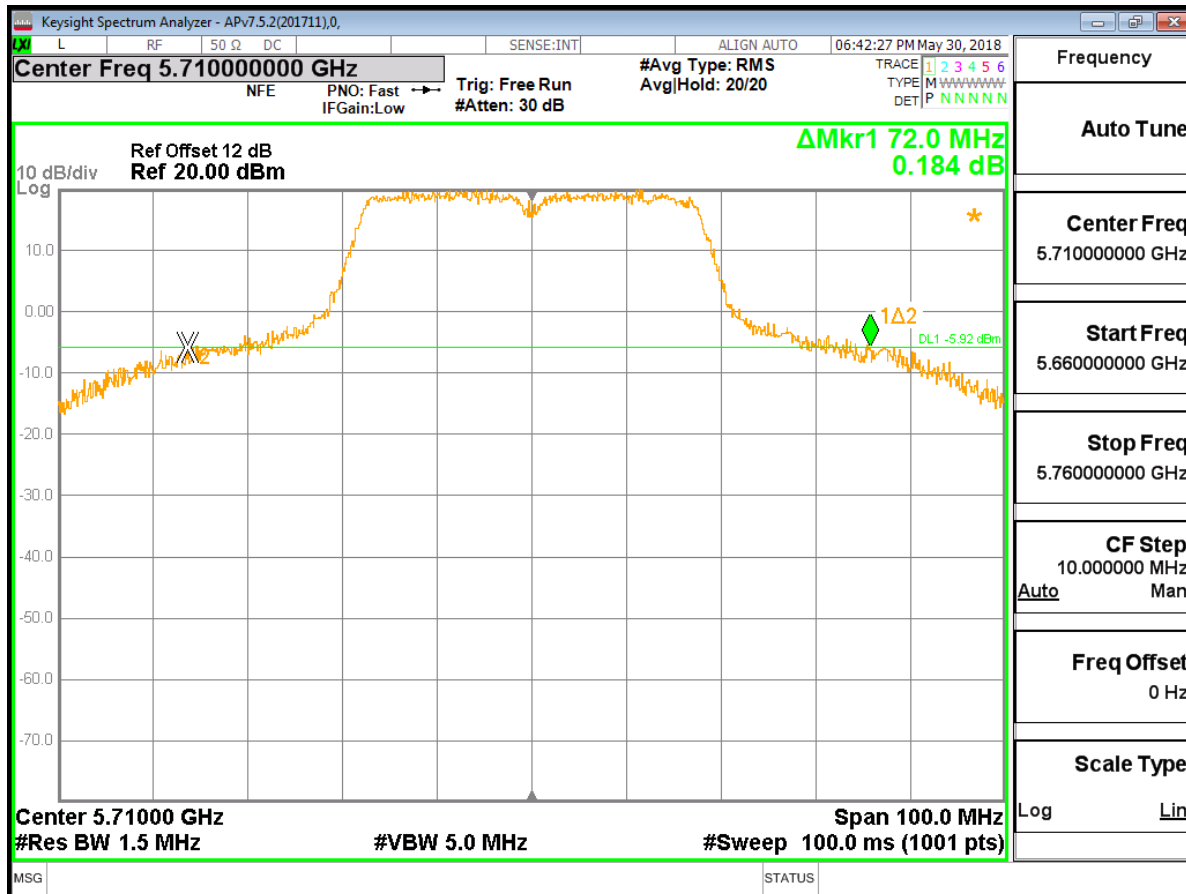




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)
5710.000000	72.000

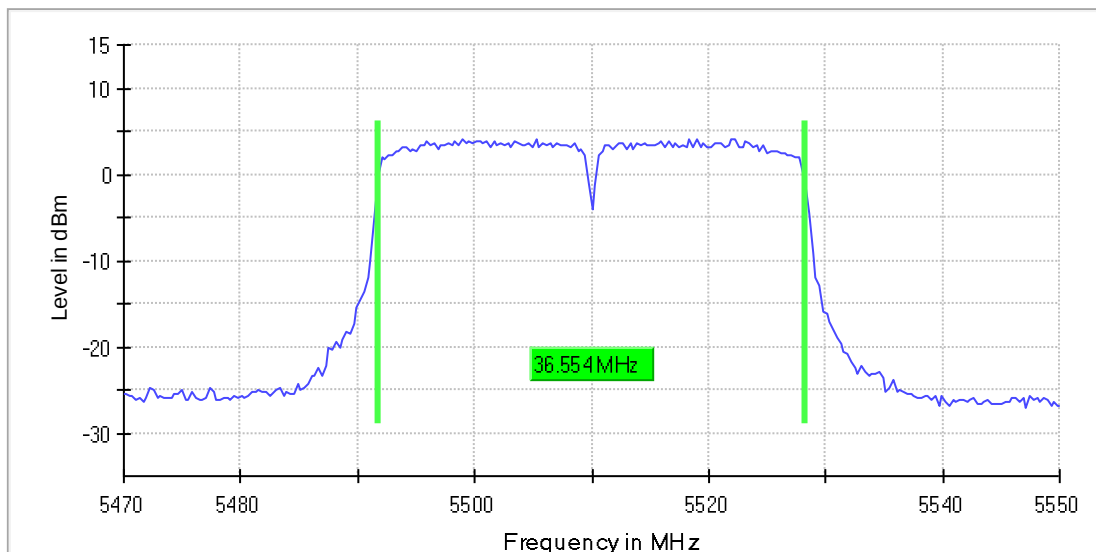
DUT Frequency (MHz)	Result
5710.000000	PASS





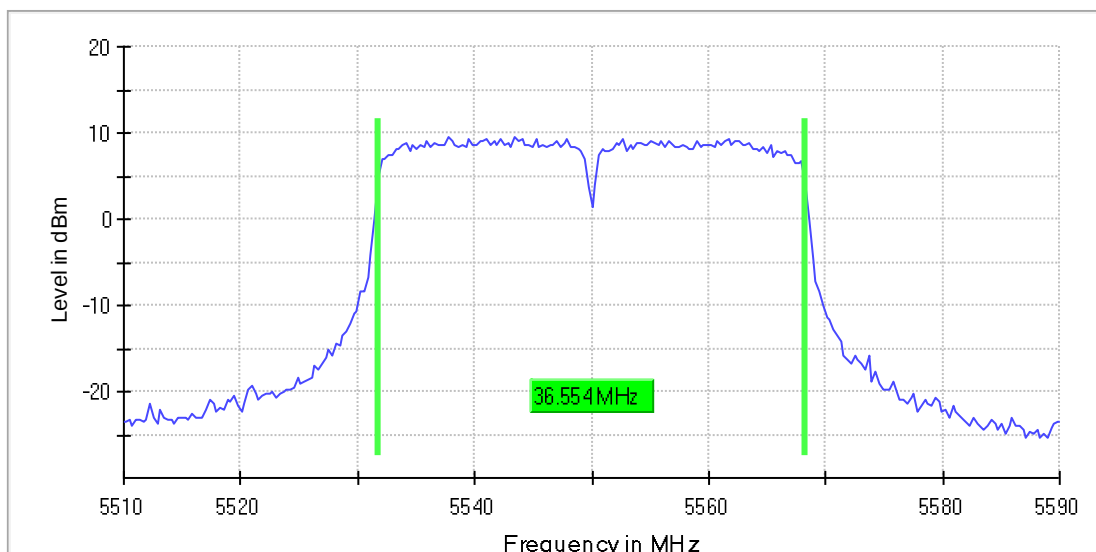
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5510.000000	36.554308	---	---	5491.722846	5528.277154	PASS



99 % Bandwidth

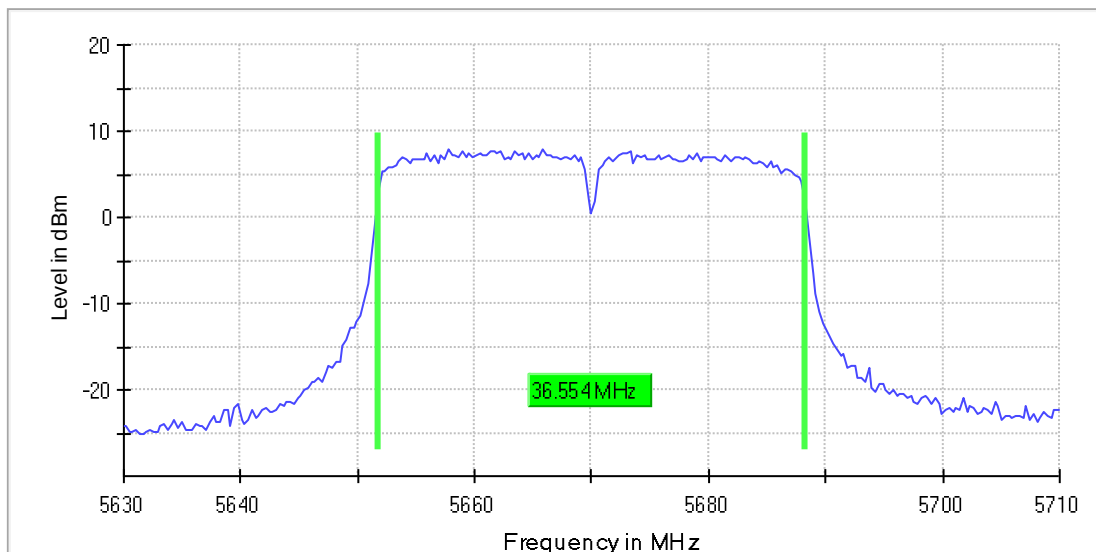
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5550.000000	36.554308	---	---	5531.722846	5568.277154	PASS





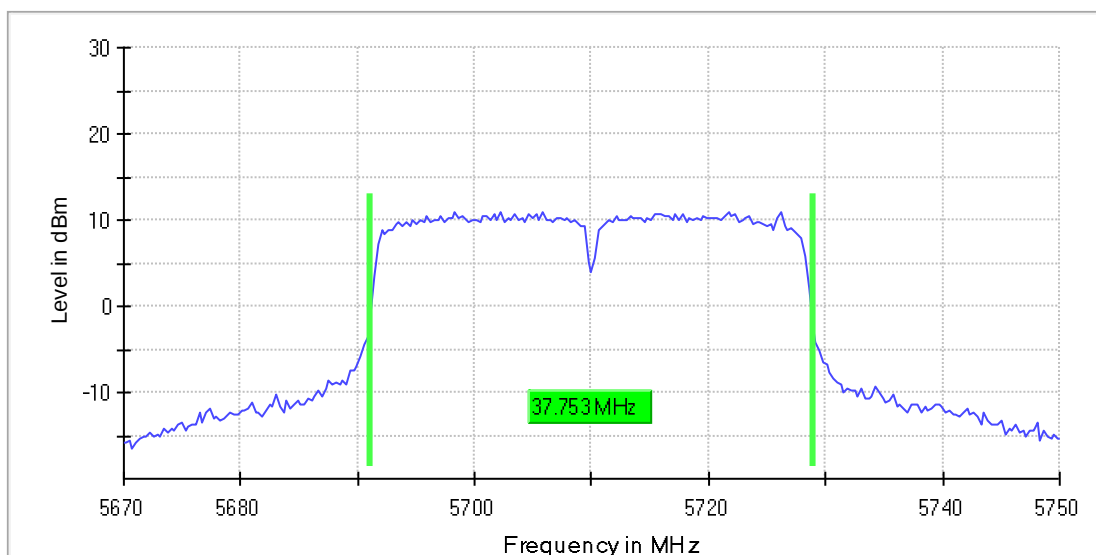
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5670.000000	36.554308	---	---	5651.722846	5688.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5710.000000	37.752808	---	---	5691.123596	5728.876404	PASS



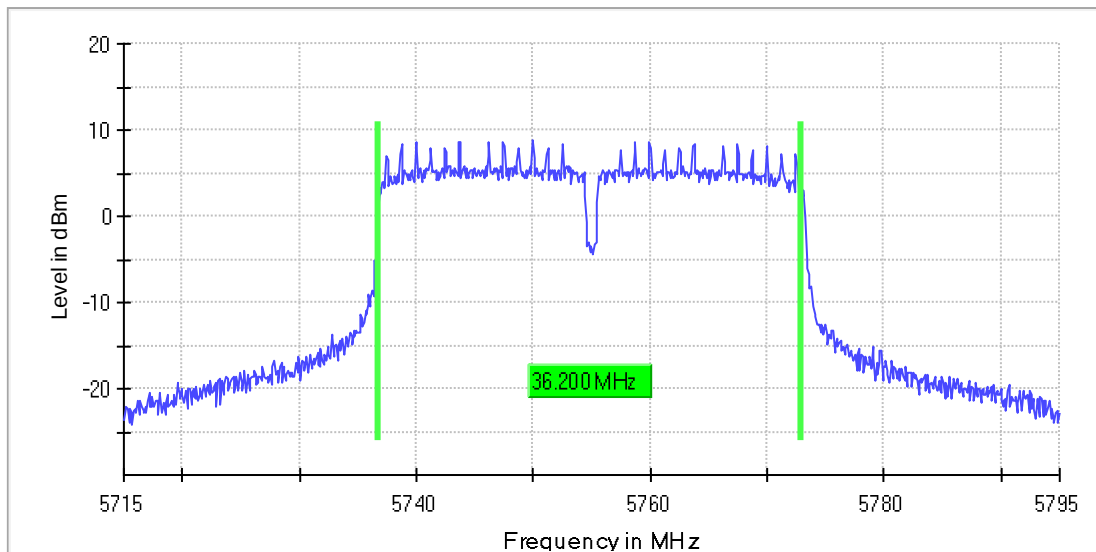


6.2.5.4. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5755.000000	36.200000	0.500000	---	5736.750000	5772.950000	8.9

DUT Frequency (MHz)	Result
5755.000000	PASS

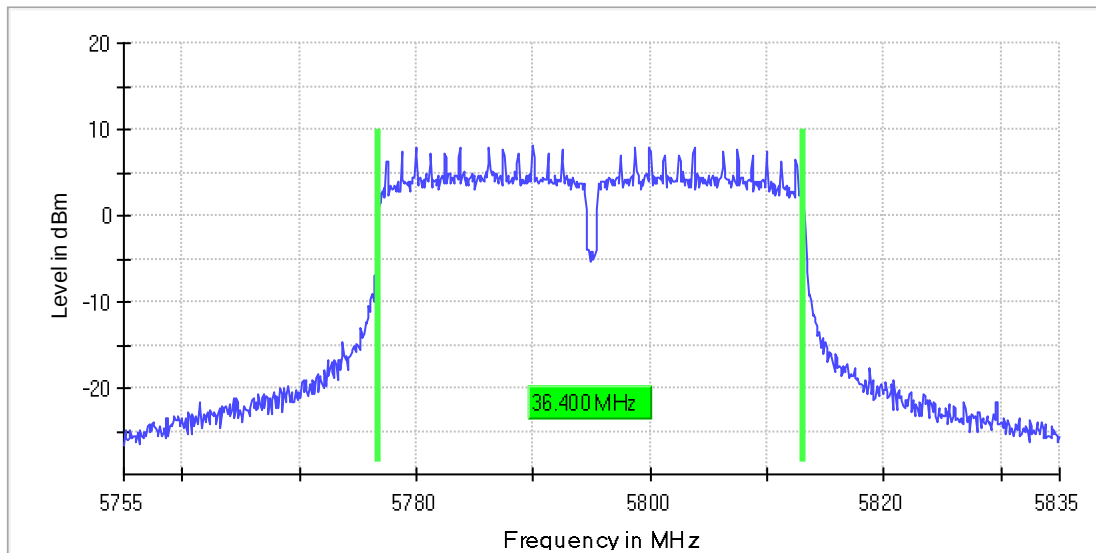




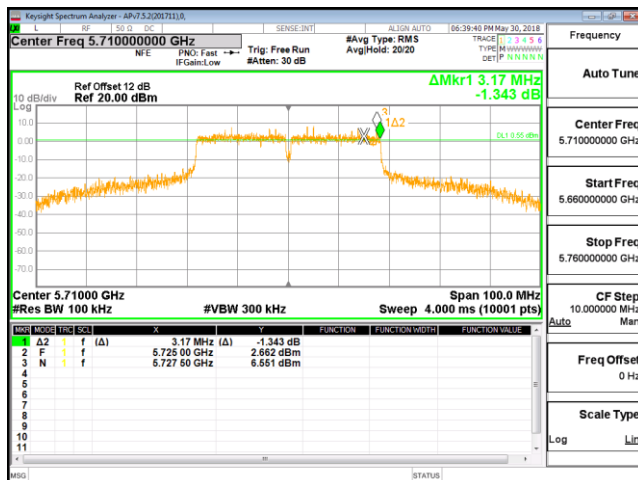
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5795.000000	36.400000	0.500000	---	5776.750000	5813.150000	8.1

DUT Frequency (MHz)	Result
5795.000000	PASS



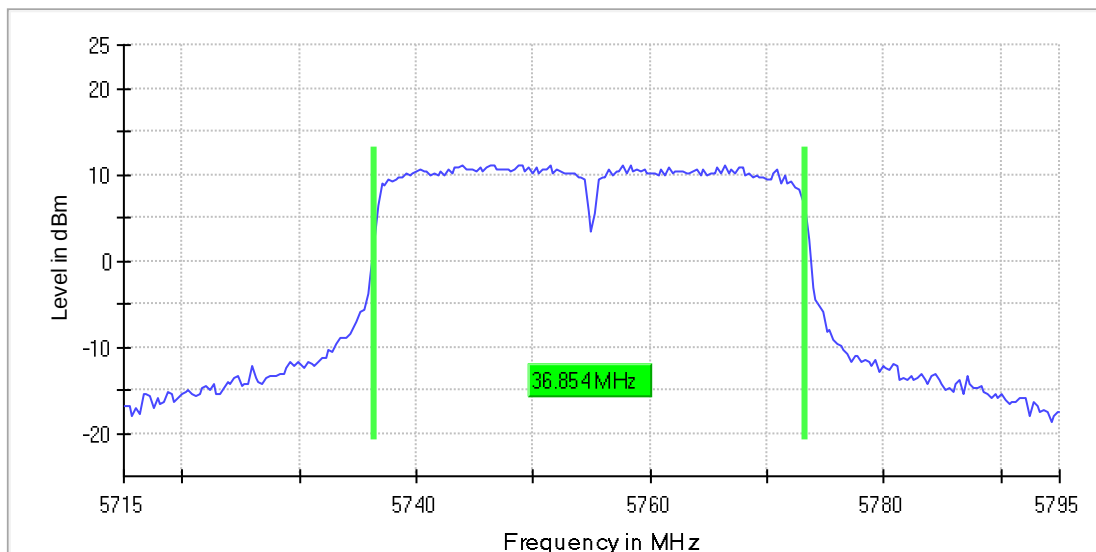
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5710.000000	3.17	0.500000	PASS





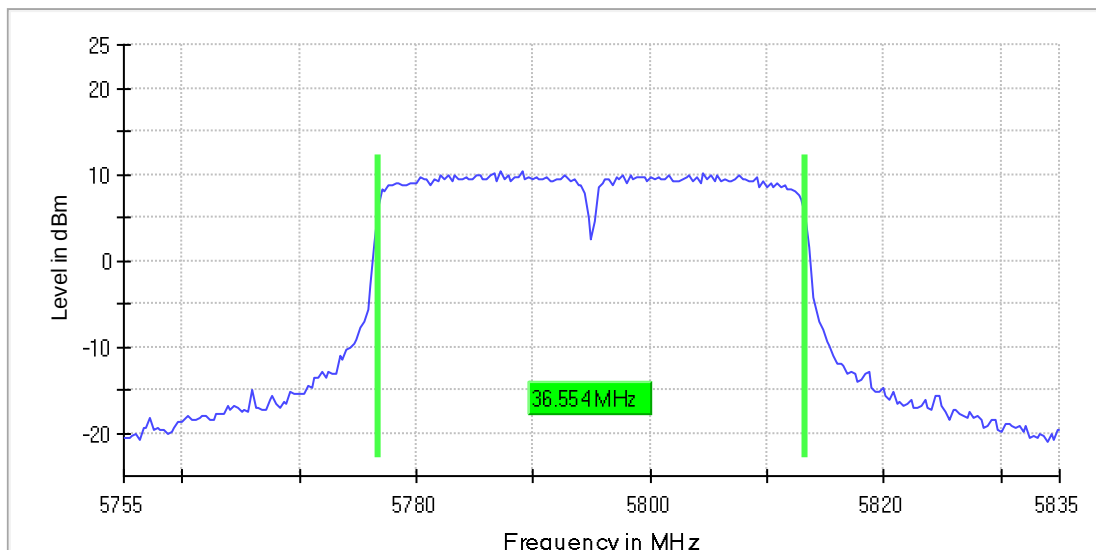
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5755.000000	36.853933	---	---	5736.423221	5773.277154	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5795.000000	36.554308	---	---	5776.722846	5813.277154	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



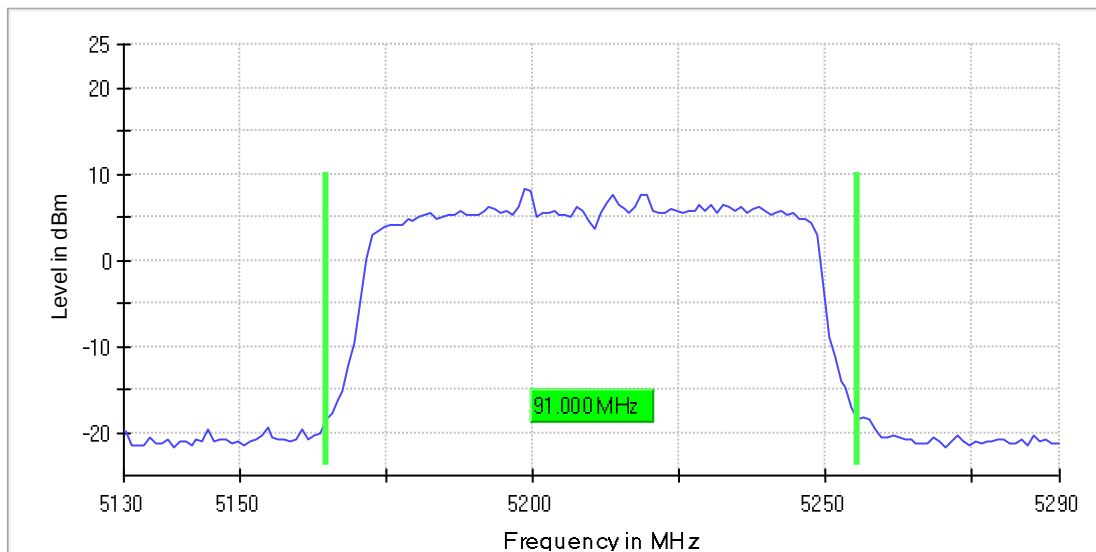
6.2.6. 802.11ac HT80 SISO MODE

6.2.6.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5210.000000	91.000000	---	---	5164.500000	5255.500000	8.2

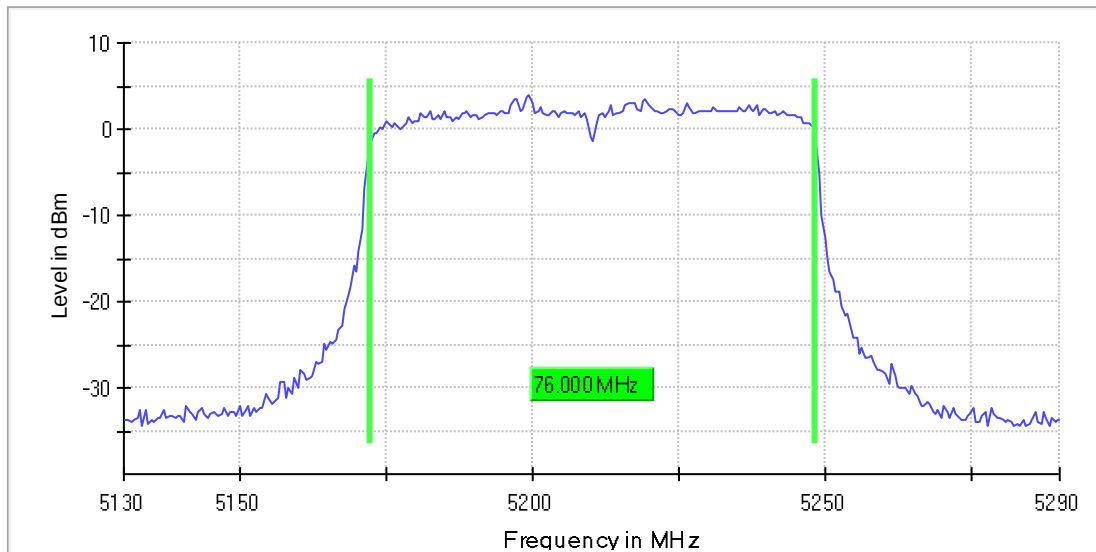
DUT Frequency (MHz)	Result
5210.000000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5210.000000	76.000000	---	---	5172.250000	5248.250000	PASS



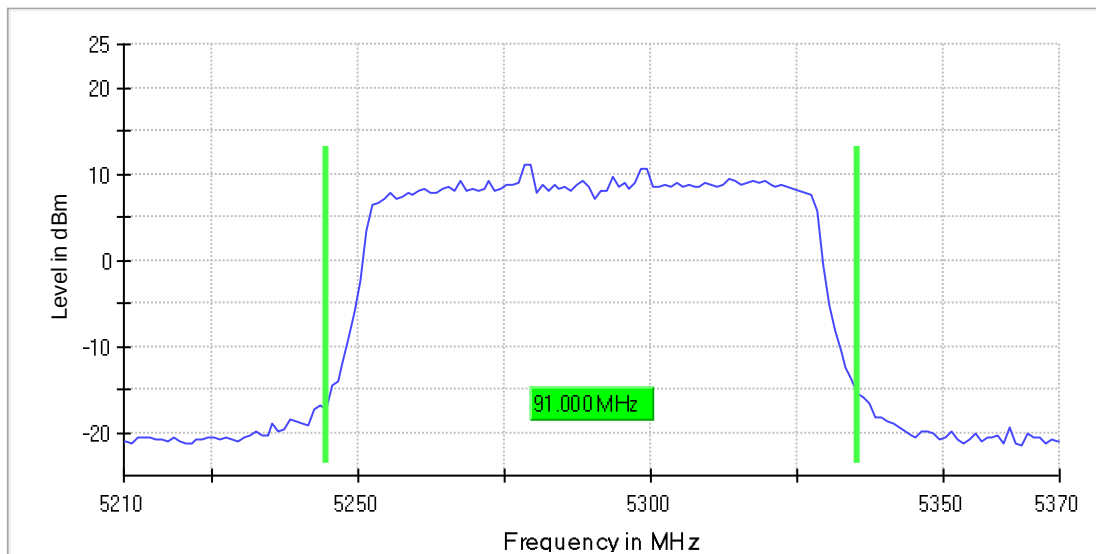


6.2.6.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5290.000000	91.000000	---	---	5244.500000	5335.500000	11.1

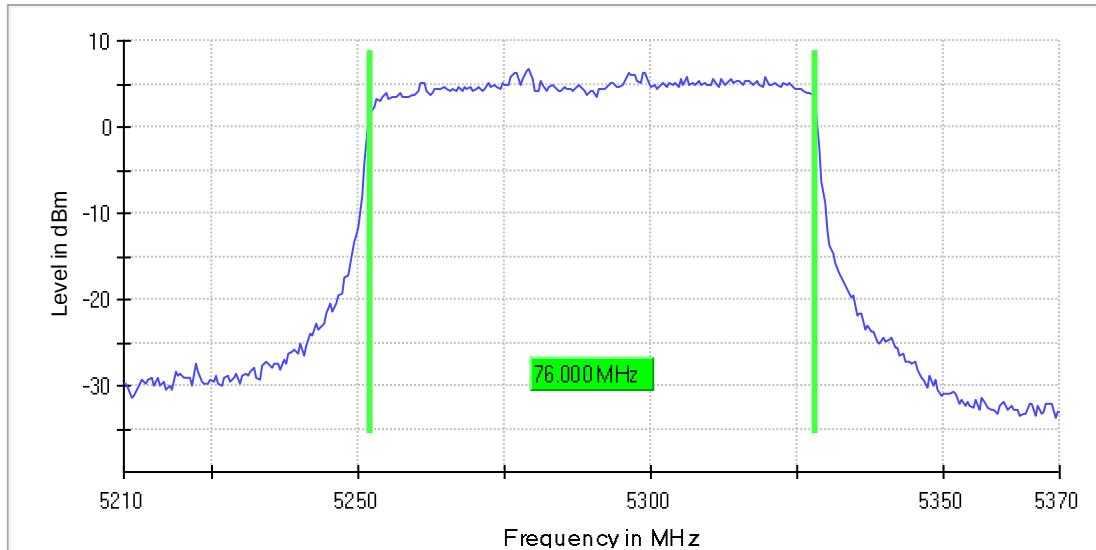
DUT Frequency (MHz)	Result
5290.000000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5290.000000	76.000000	---	---	5252.250000	5328.250000	PASS



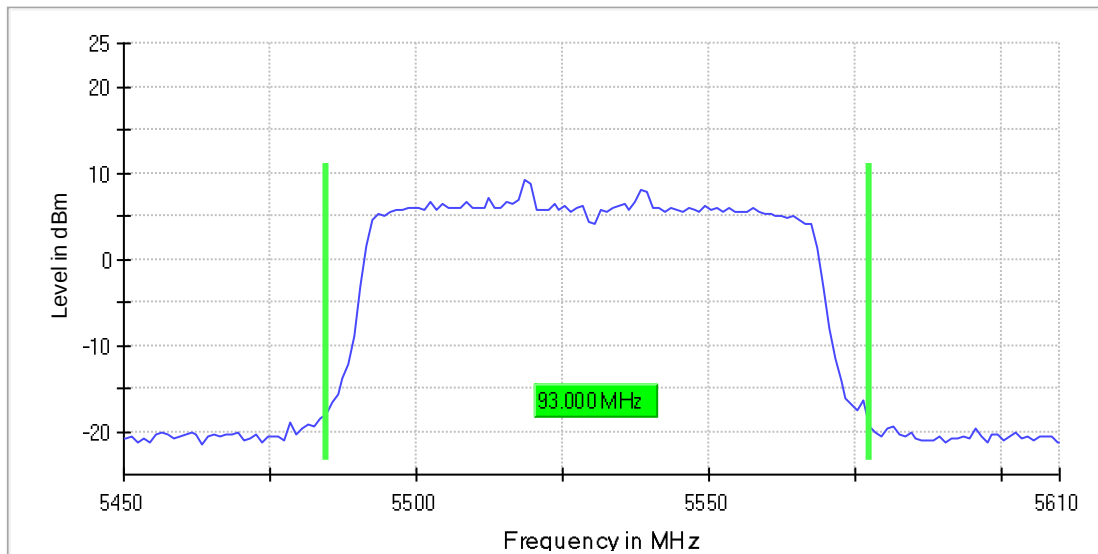


6.2.6.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5530.000000	93.000000	---	---	5484.500000	5577.500000	9.1

DUT Frequency (MHz)	Result
5530.000000	PASS



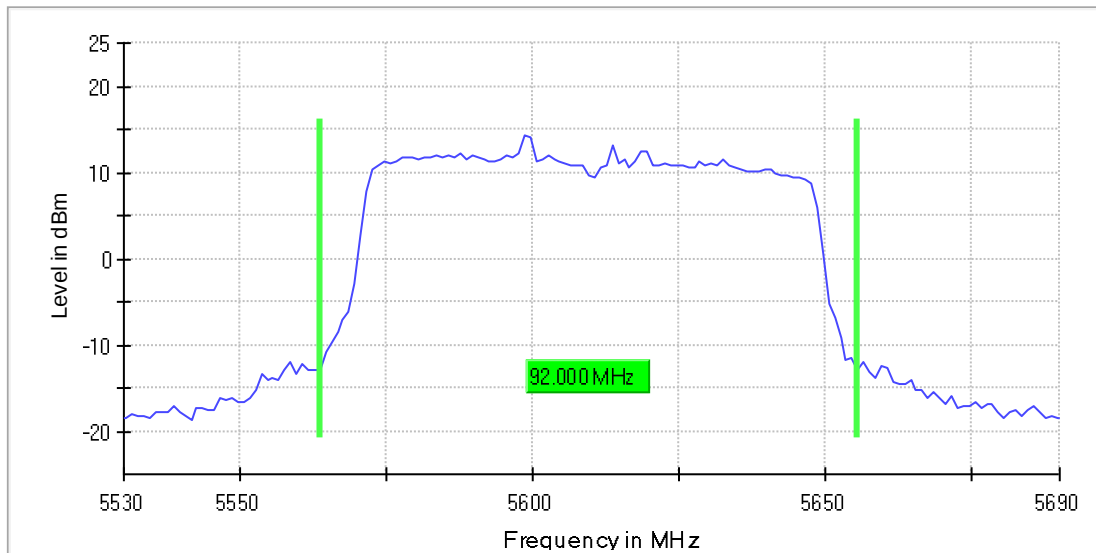
The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

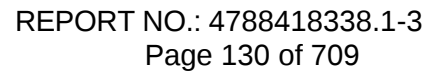


26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5610.000000	92.000000	---	---	5563.500000	5655.500000	14.3

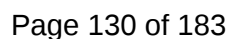
DUT Frequency (MHz)	Result
5610.000000	PASS





DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)
5690.000000	131.14000	---	---

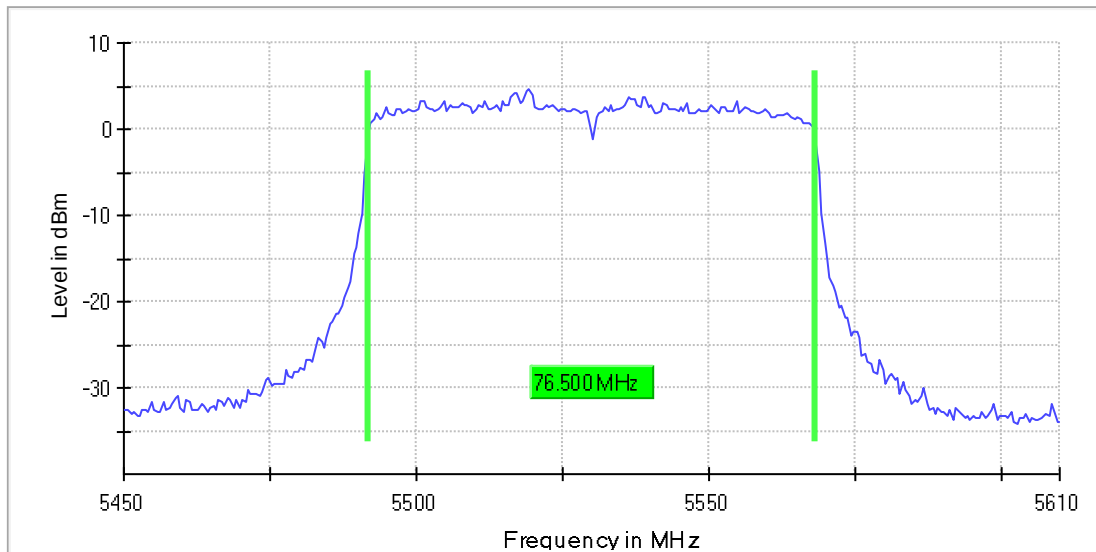
DUT Frequency (MHz)	Result
5690.000000	PASS





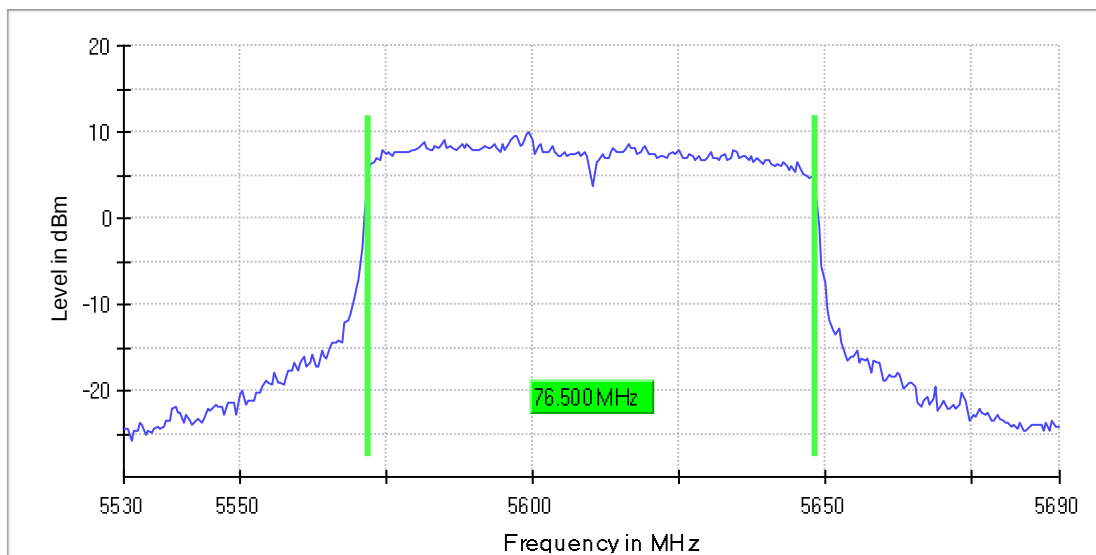
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5530.000000	76.500000	---	---	5491.750000	5568.250000	PASS



99 % Bandwidth

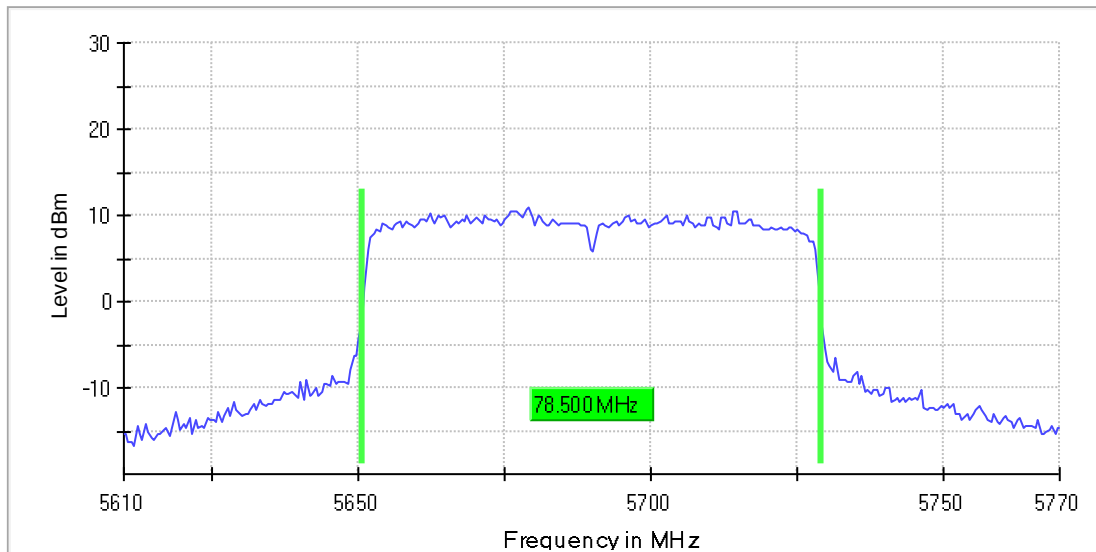
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5610.000000	76.500000	---	---	5571.750000	5648.250000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5690.000000	78.500000	---	---	5650.750000	5729.250000	PASS



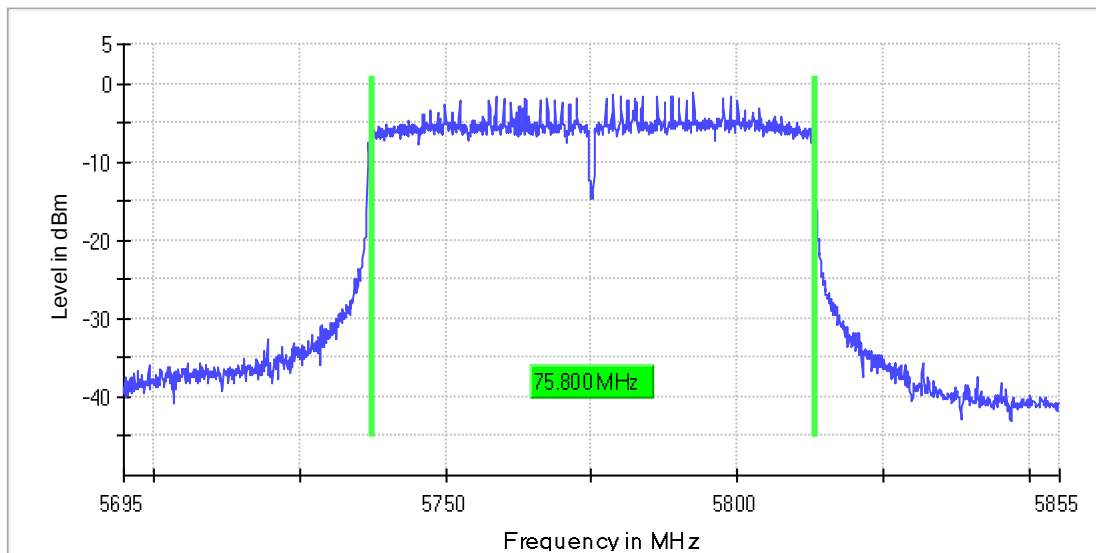


6.2.6.4. UNII-3 BAND

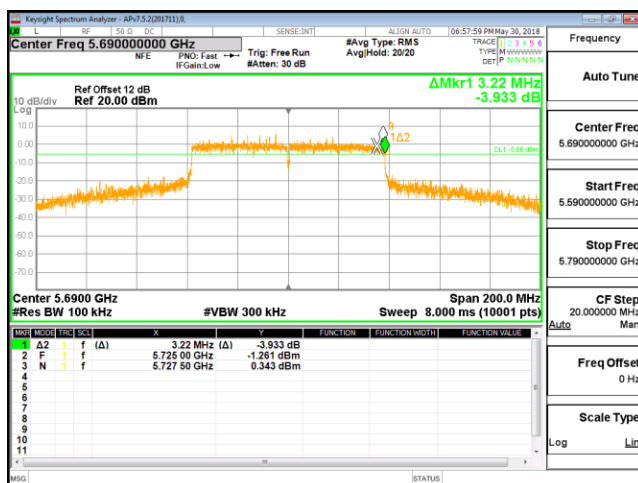
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5775.000000	75.800000	0.500000	---	5737.350000	5813.150000	-1.2

DUT Frequency (MHz)	Result
5775.000000	PASS



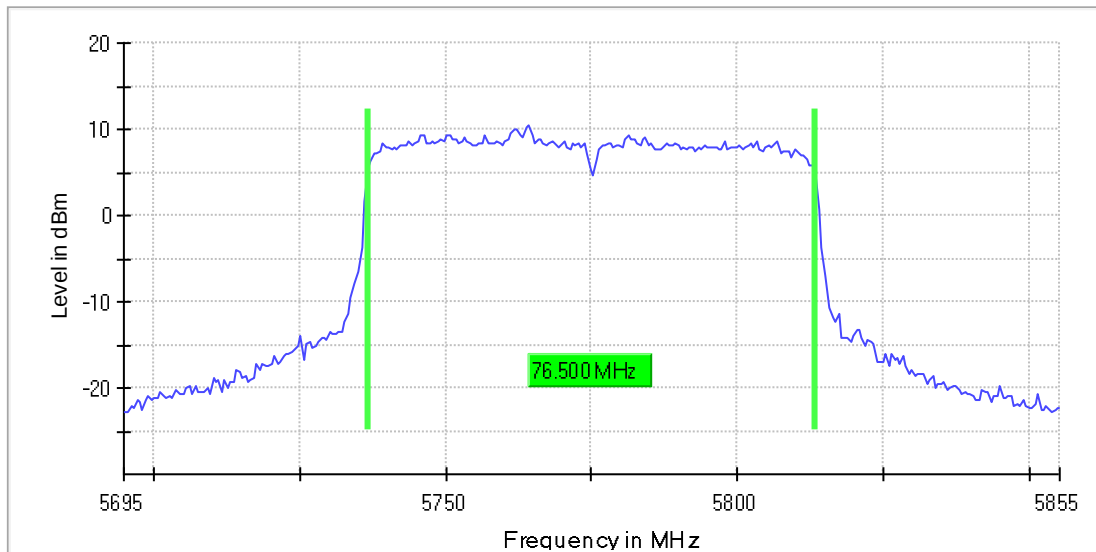
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5690.000000	3.22	0.500000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5775.000000	76.500000	---	---	5736.750000	5813.250000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.

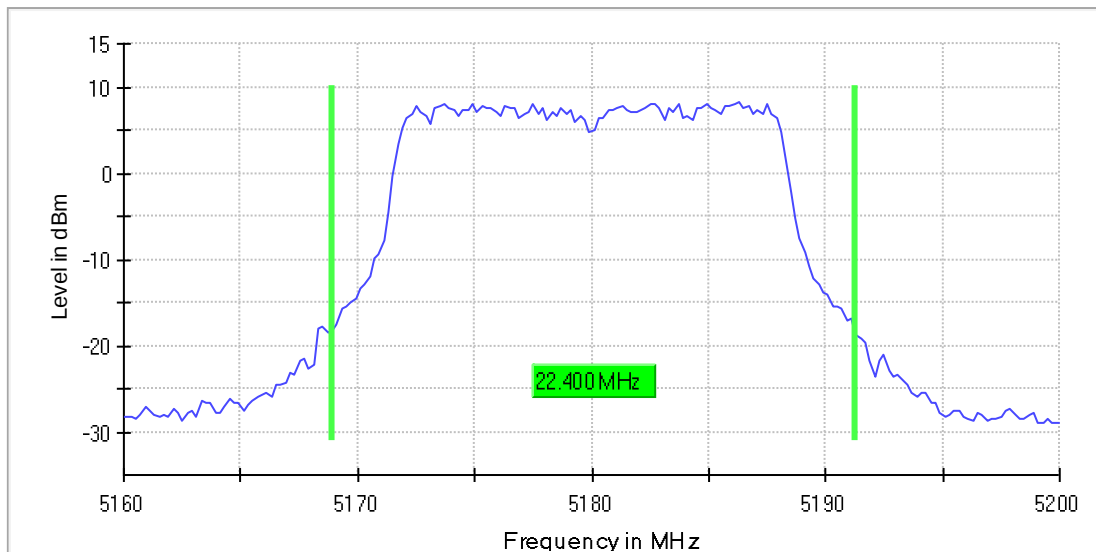


6.2.6.5. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5180.000000	22.400000	---	---	5168.900000	5191.300000	8.2

(DUT Frequency (MHz)	Result
5180.000000	PASS

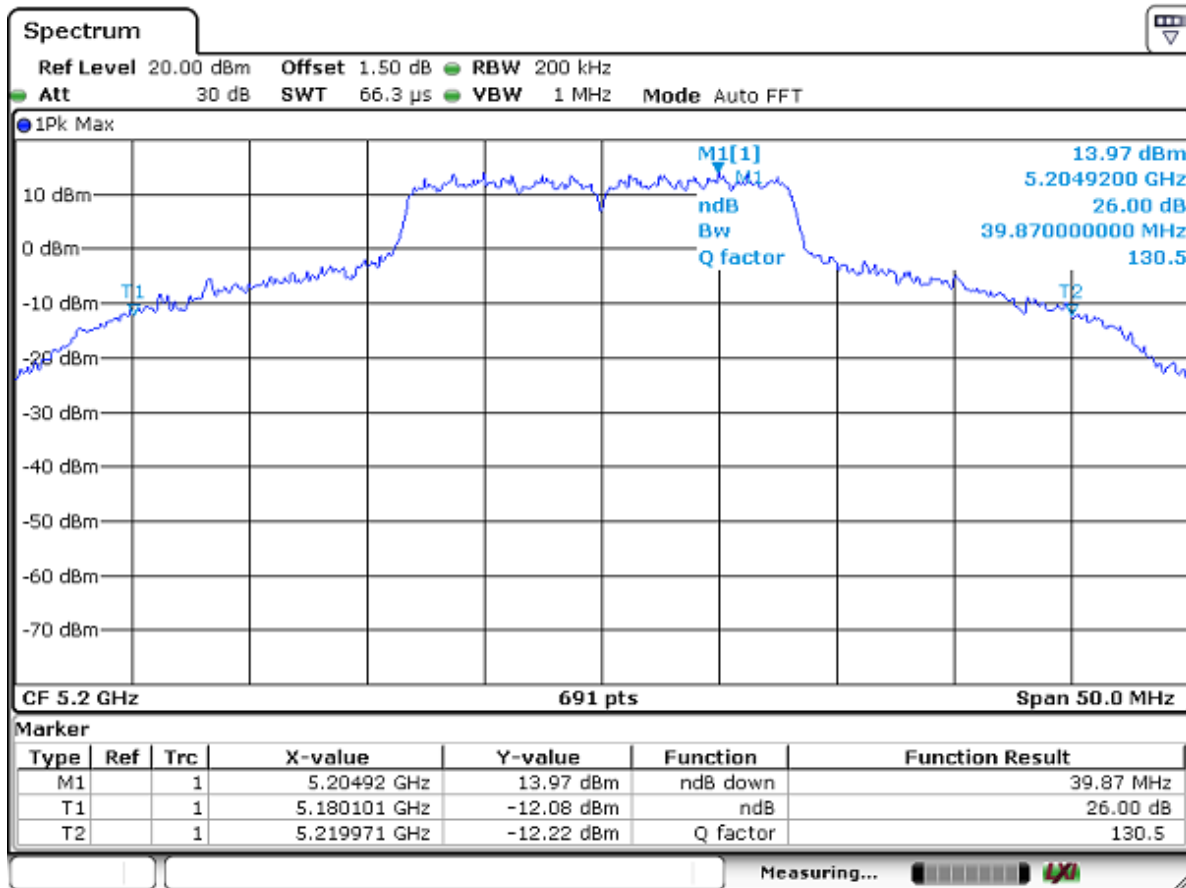


26 dB Bandwidth



DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5200.000000	39.87	---	---	5180.101000	5219.971000	13.97

DUT Frequency (MHz)	Result
5200.000000	PASS



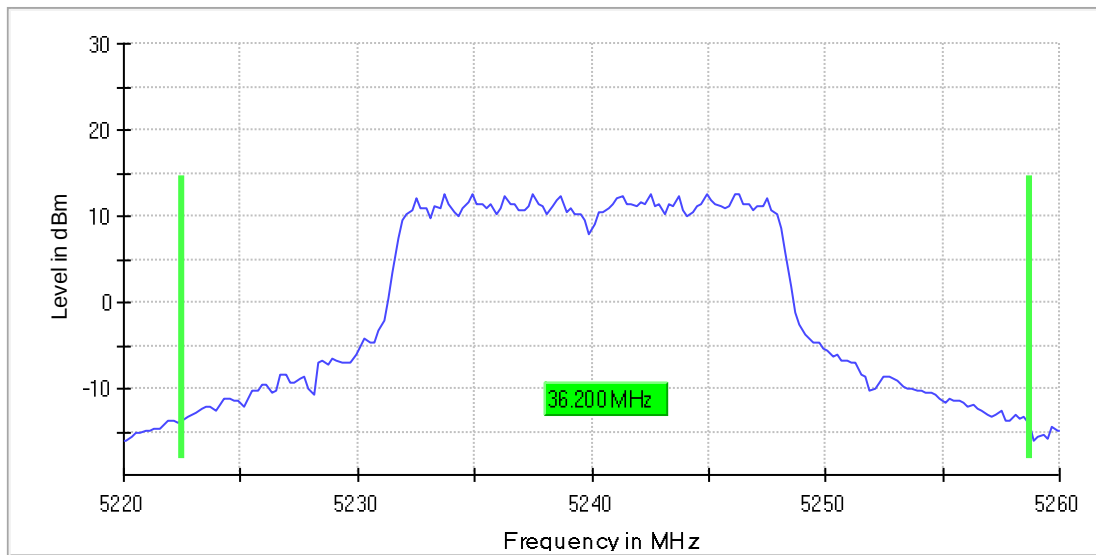
Date: 31 OCT 2018 14:23:45



26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	36.200000	---	---	5222.500000	5258.700000

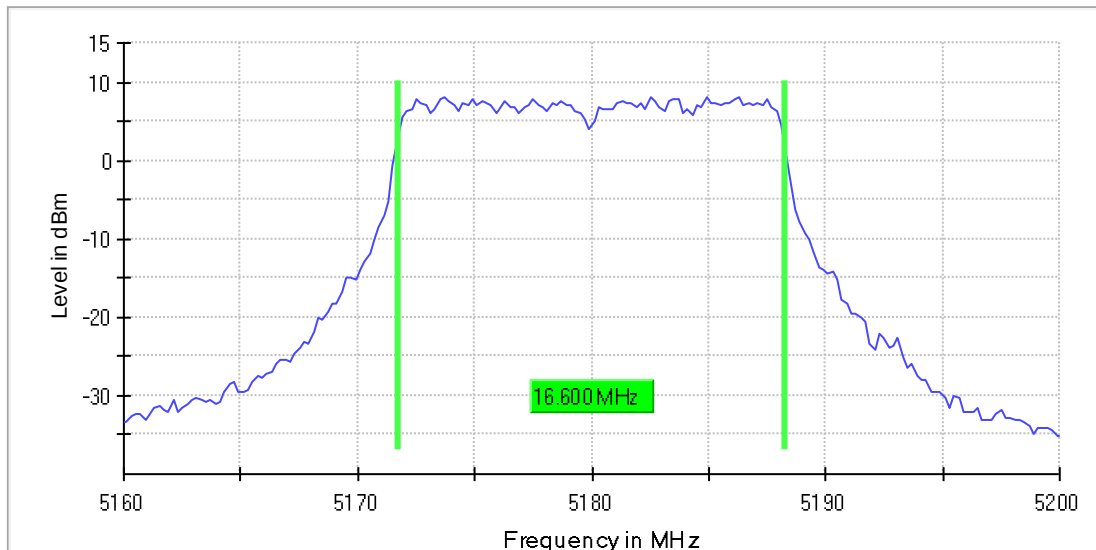
DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	12.6	PASS





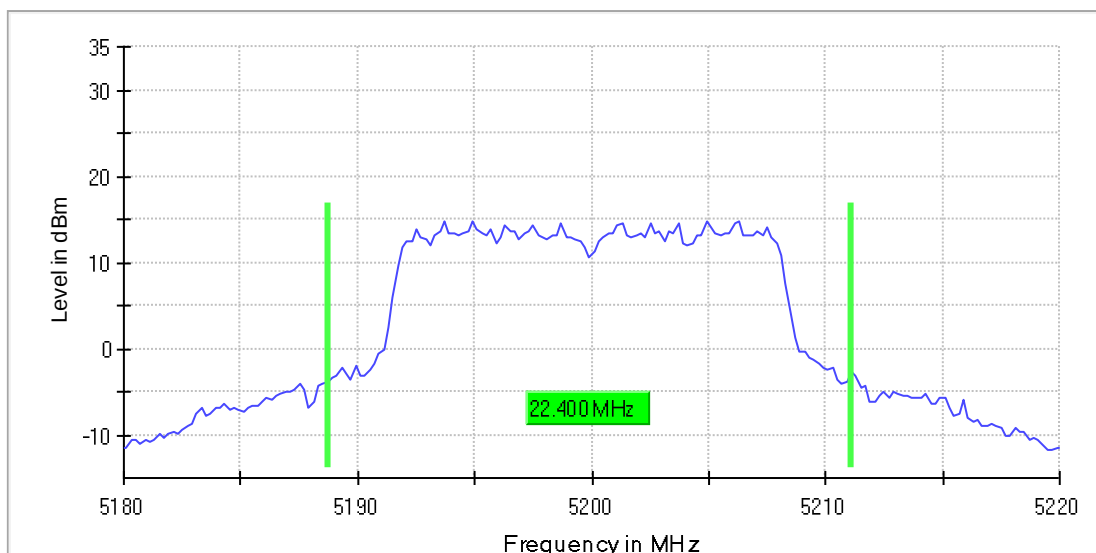
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5180.000000	16.600000	---	---	5171.700000	5188.300000	PASS



99 % Bandwidth

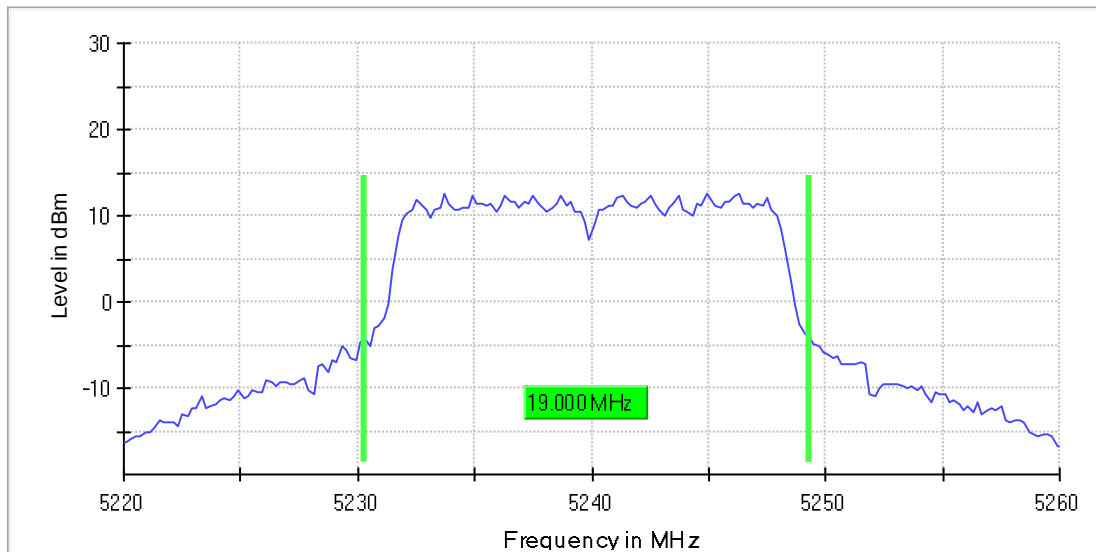
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5200.000000	22.400000	---	---	5188.700000	5211.100000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5240.000000	19.000000	---	---	5230.300000	5249.300000	PASS



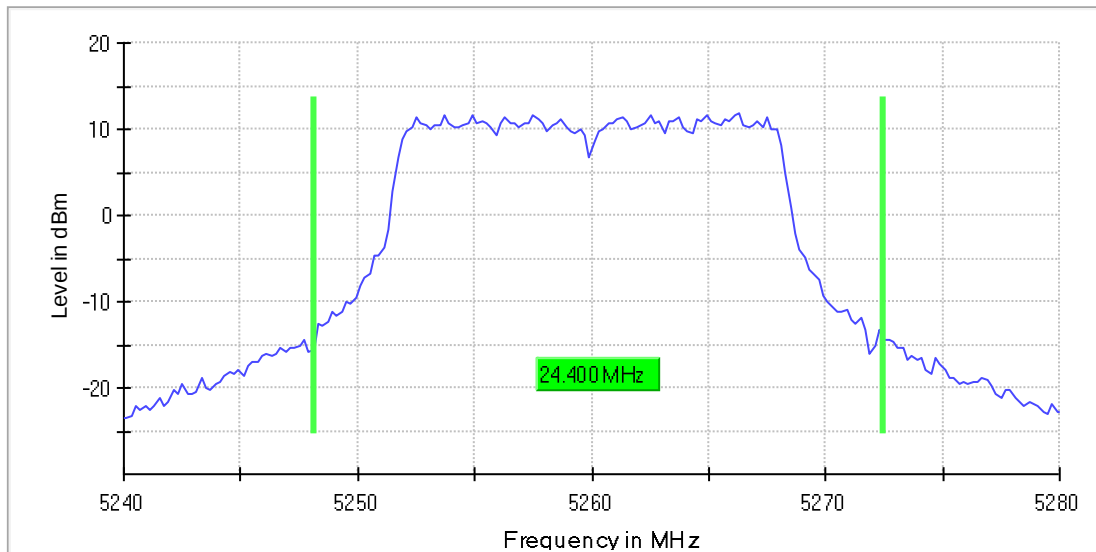


6.2.6.6. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5260.000000	24.400000	---	---	5248.100000	5272.500000	11.8

DUT Frequency (MHz)	Result
5260.000000	PASS

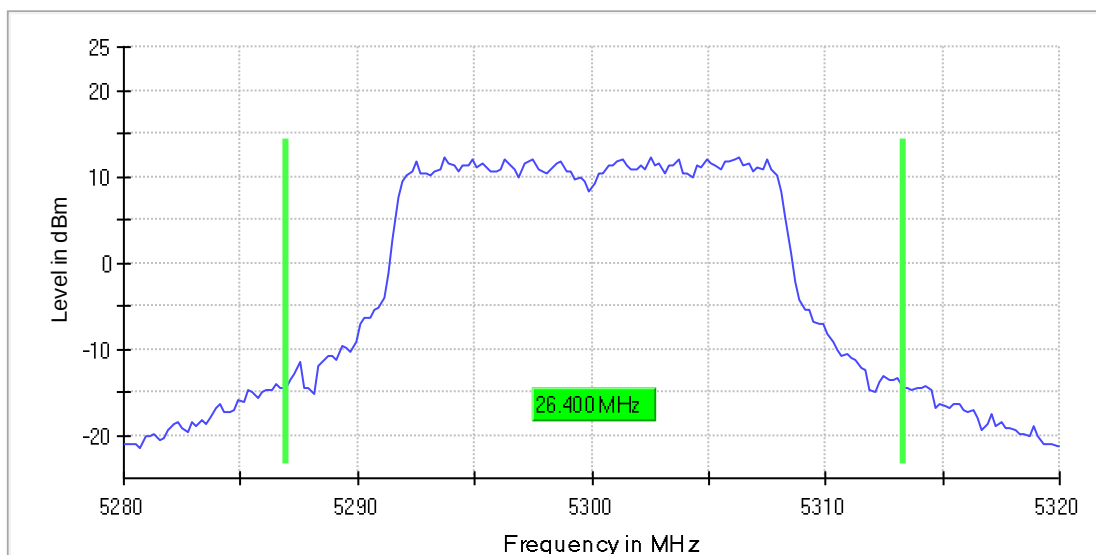




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5300.000000	26.400000	---	---	5286.900000	5313.300000	12.2

DUT Frequency (MHz)	Result
5300.000000	PASS

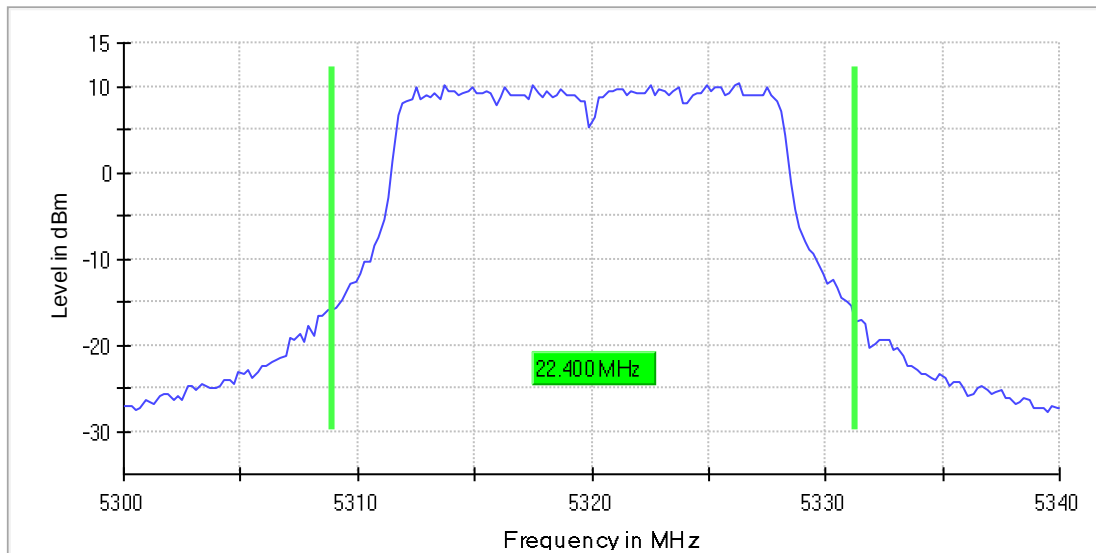




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5320.000000	22.400000	---	---	5308.900000	5331.300000	10.3

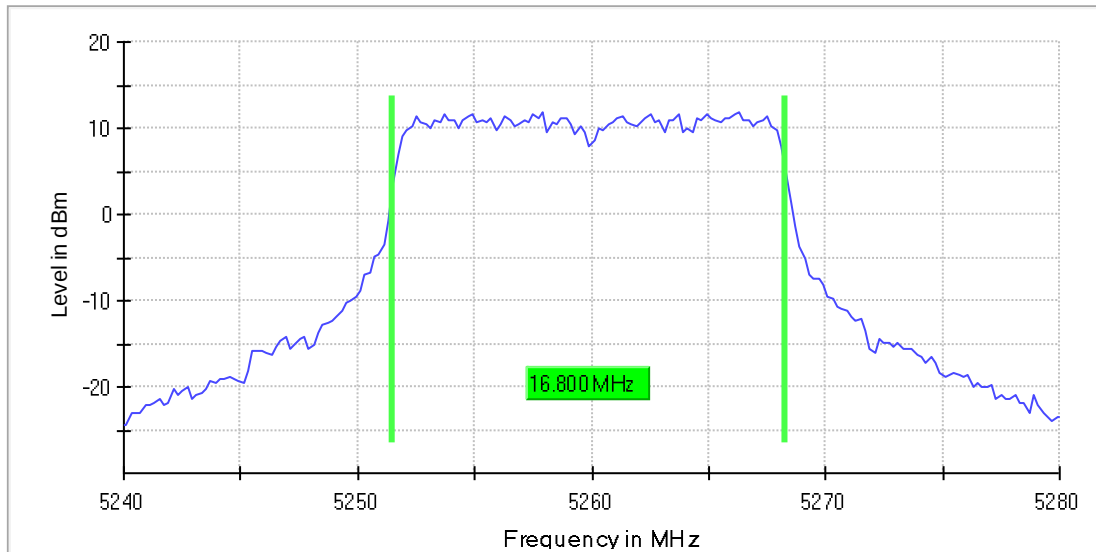
DUT Frequency (MHz)	Result
5320.000000	PASS





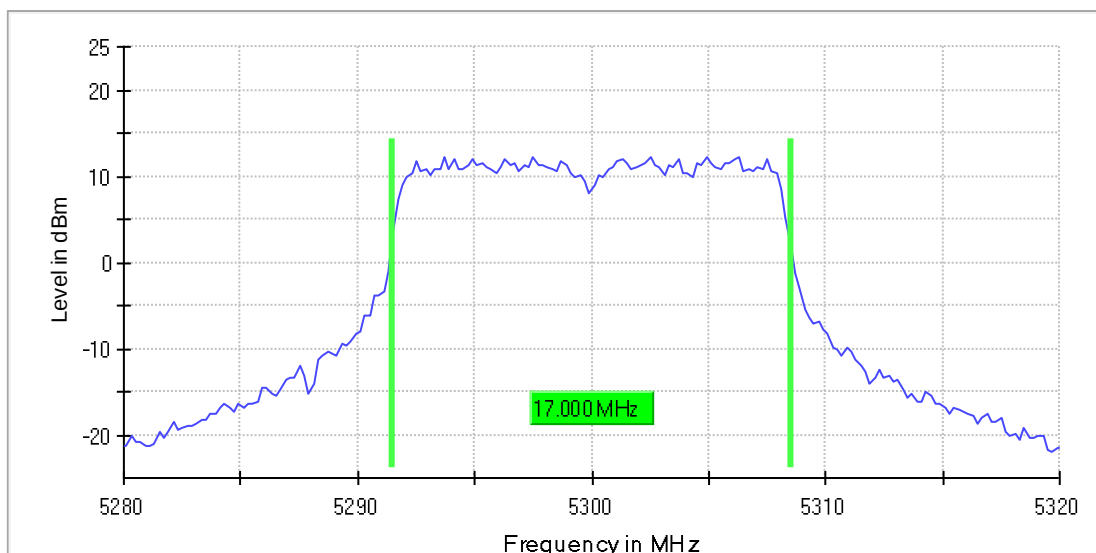
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5260.000000	16.800000	---	---	5251.500000	5268.300000	PASS



99 % Bandwidth

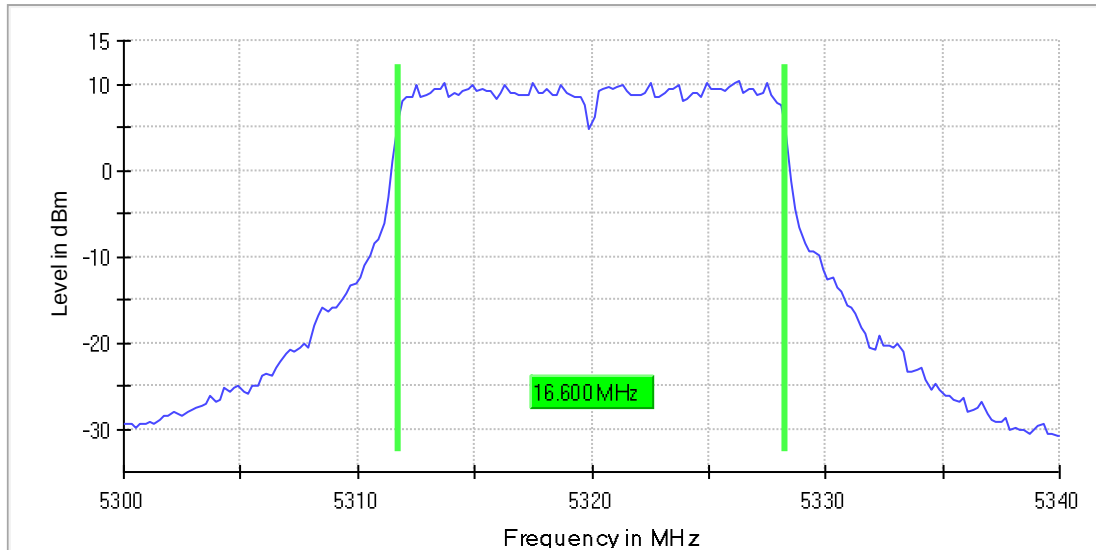
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5300.000000	17.000000	---	---	5291.500000	5308.500000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5320.000000	16.600000	---	---	5311.700000	5328.300000	PASS



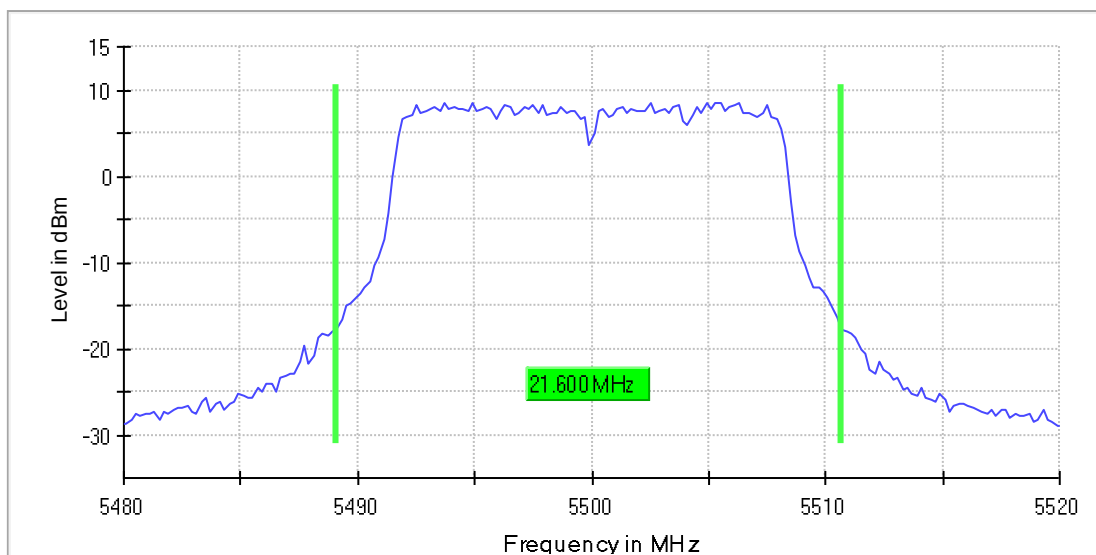


6.2.6.7. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5500.000000	21.600000	---	---	5489.100000	5510.700000	8.6

DUT Frequency (MHz)	Result
5500.000000	PASS

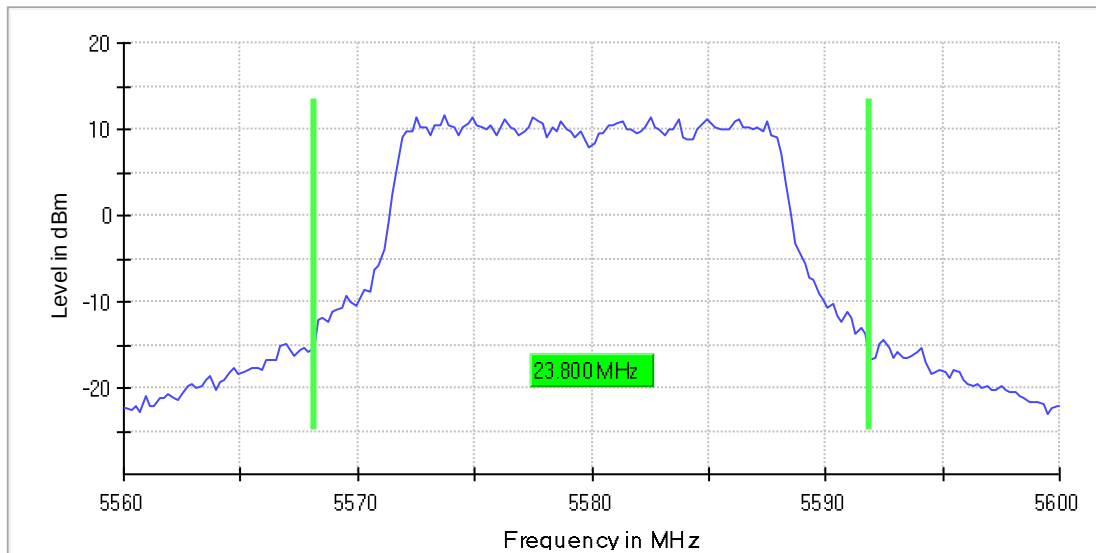




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5580.000000	23.800000	---	---	5568.100000	5591.900000	11.6

DUT Frequency (MHz)	Result
5580.000000	PASS

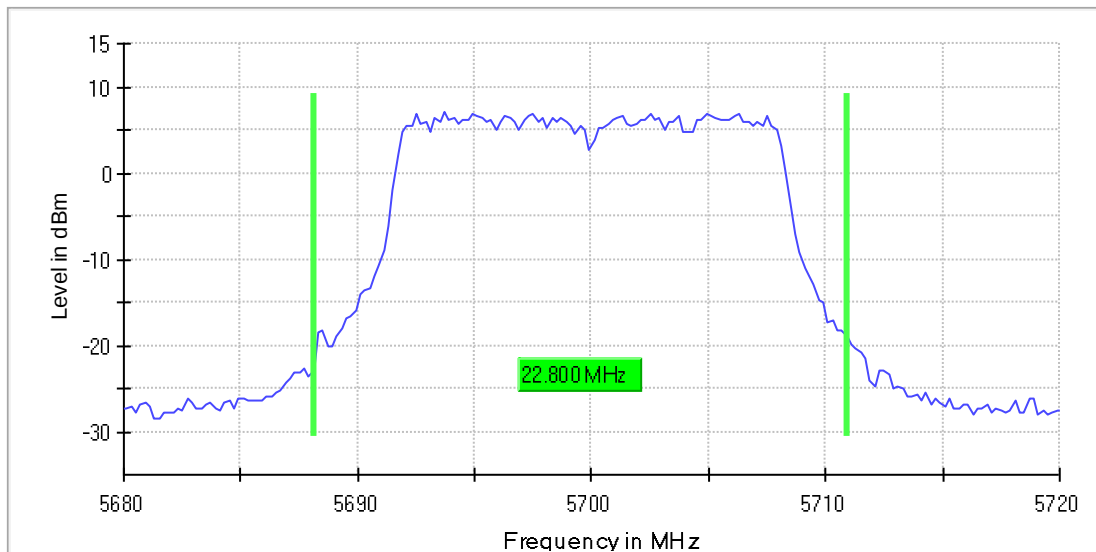




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5700.000000	22.800000	---	---	5688.100000	5710.900000	7.2

DUT Frequency (MHz)	Result
5700.000000	PASS

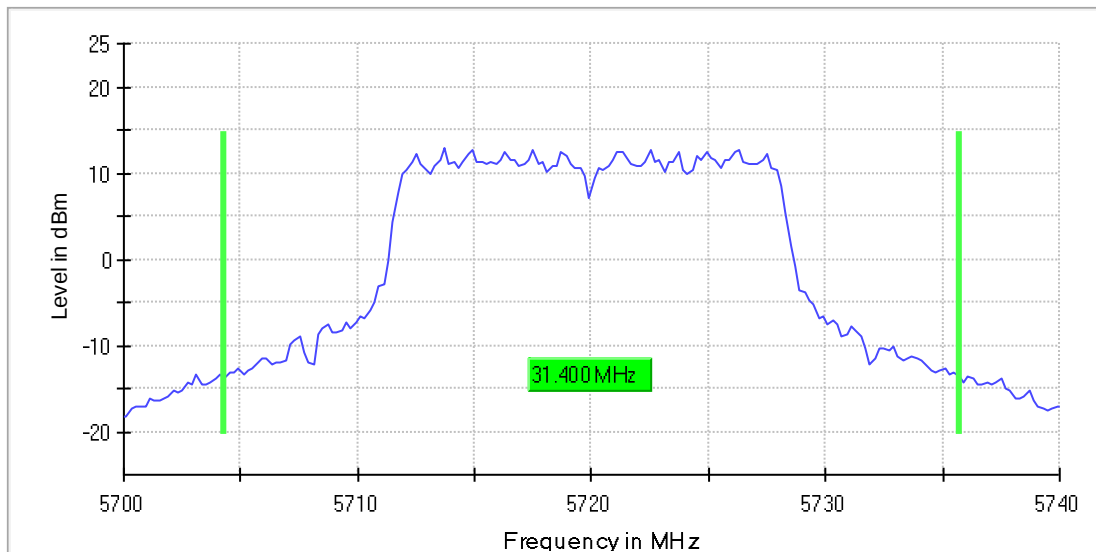




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5720.000000	31.400000	---	---	5704.300000	5735.700000	12.8

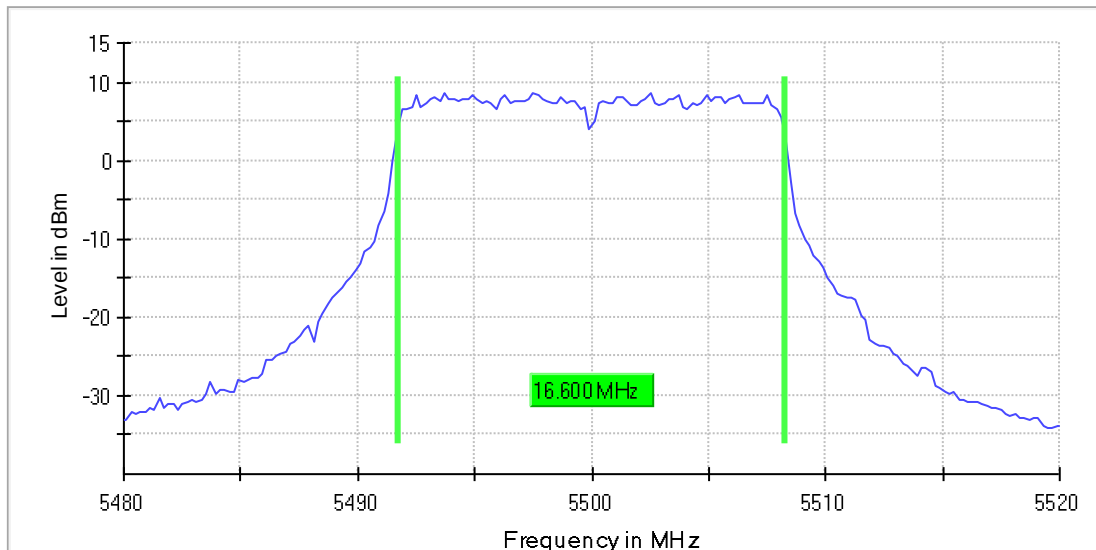
DUT Frequency (MHz)	Result
5720.000000	PASS





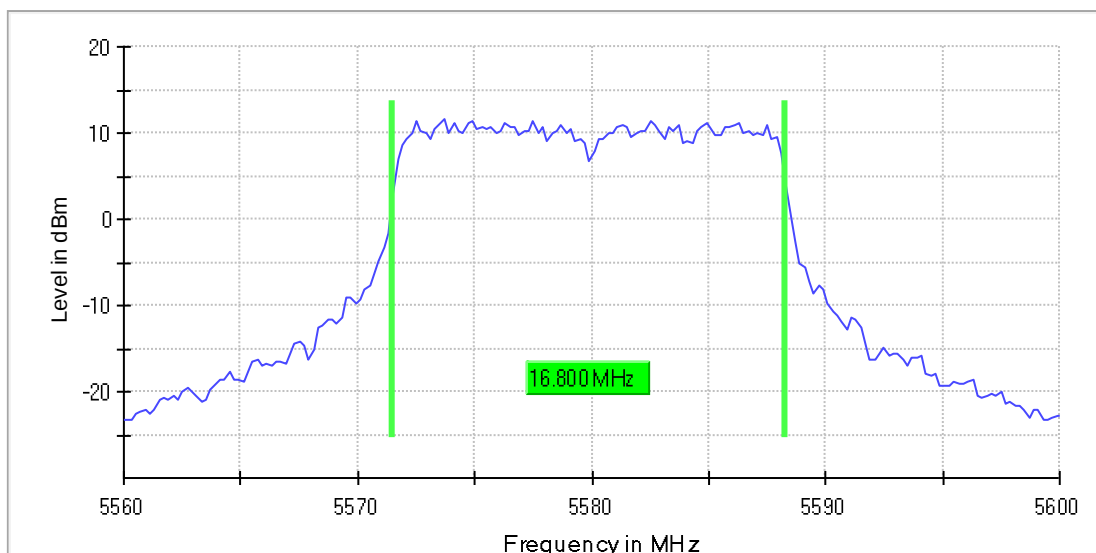
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5500.000000	16.600000	---	---	5491.700000	5508.300000	PASS



99 % Bandwidth

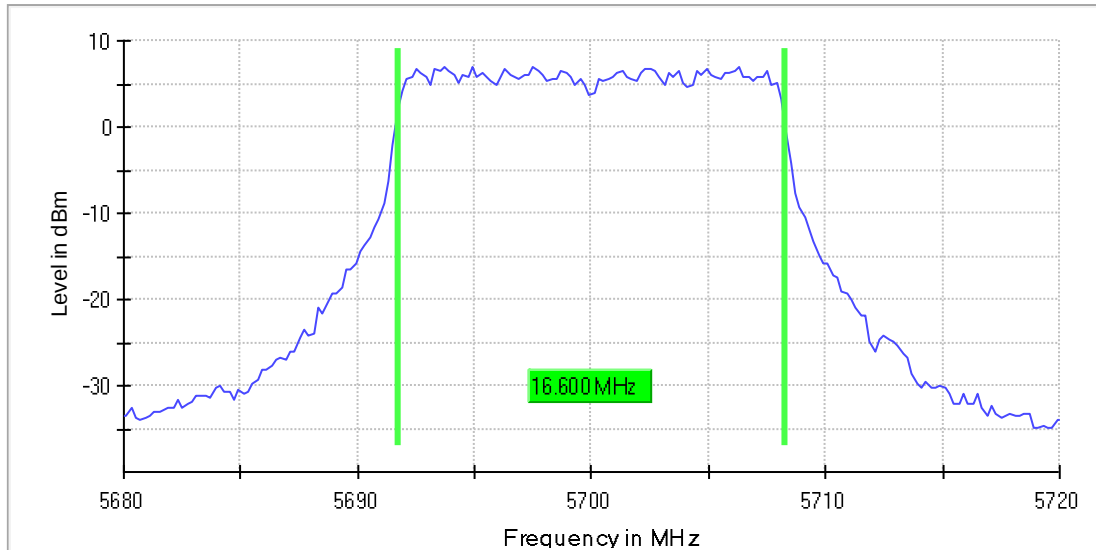
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5580.000000	16.800000	---	---	5571.500000	5588.300000	PASS





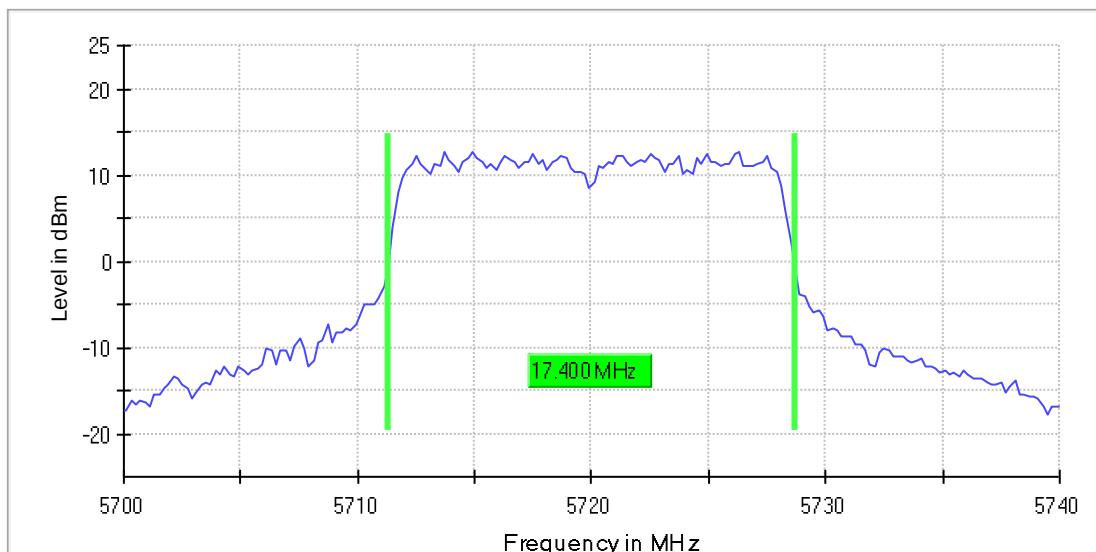
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5700.000000	16.600000	---	---	5691.700000	5708.300000	PASS



99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5720.000000	17.400000	---	---	5711.300000	5728.700000	PASS



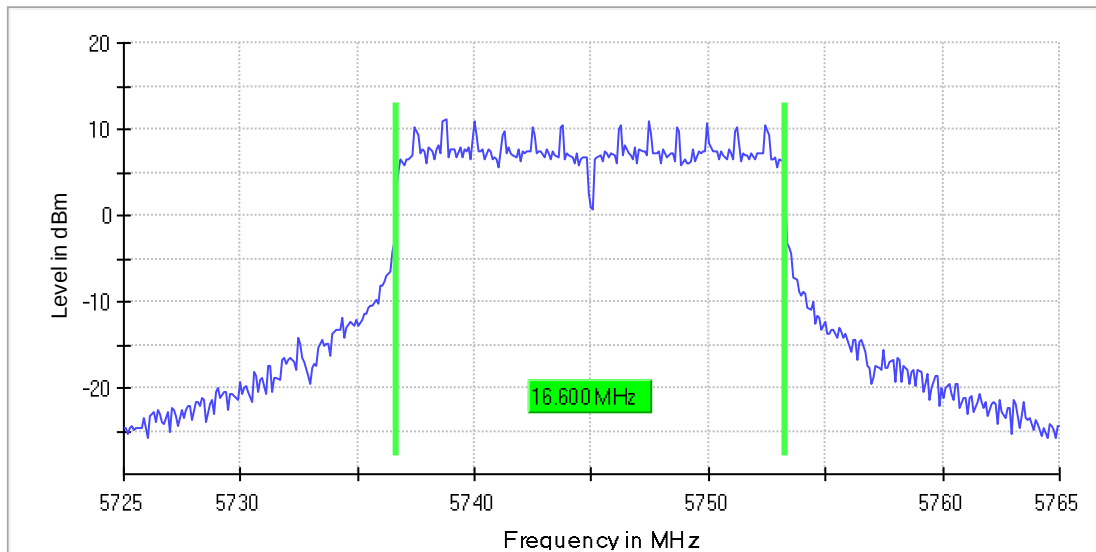


6.2.6.8. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5745.000000	16.600000	0.500000	---	5736.650000	5753.250000	11.1

DUT Frequency (MHz)	Result
5745.000000	PASS

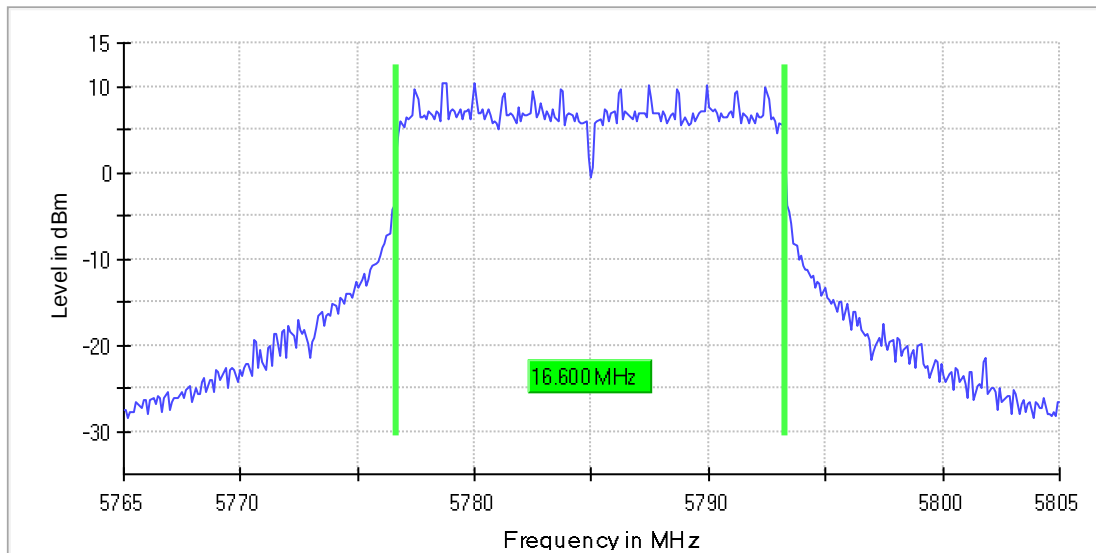




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5785.000000	16.600000	0.500000	---	5776.650000	5793.250000	10.5

DUT Frequency (MHz)	Result
5785.000000	PASS

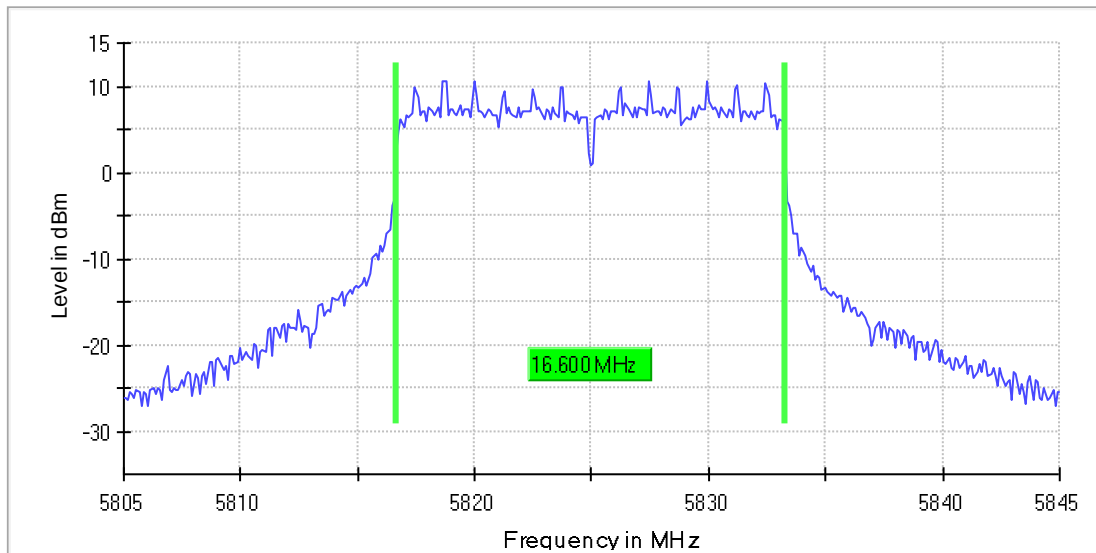




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5825.000000	16.600000	0.500000	---	5816.650000	5833.250000	10.6

DUT Frequency (MHz)	Result
5825.000000	PASS



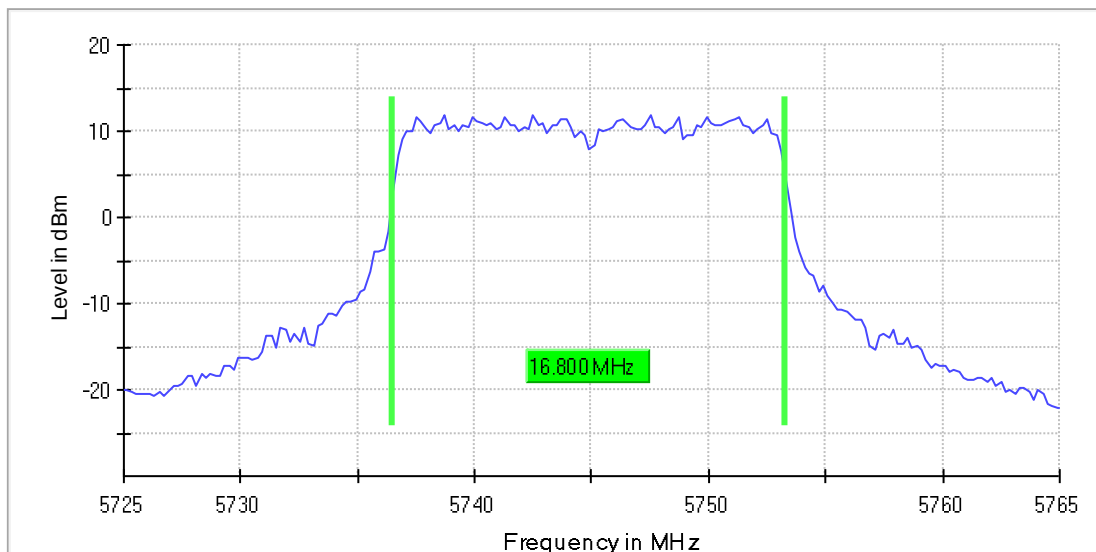
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5720.000000	3.265	0.500000	PASS





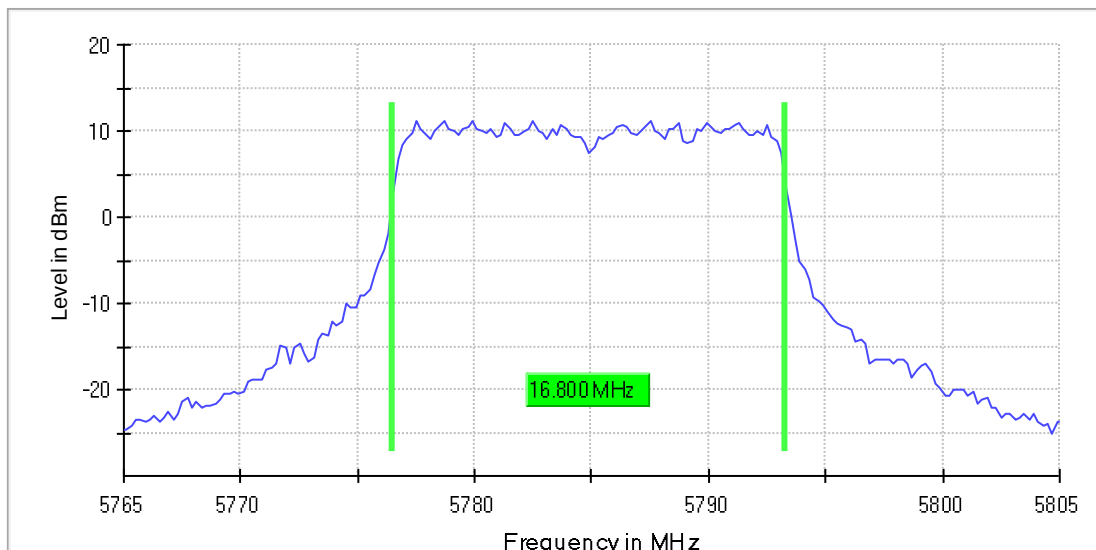
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5745.000000	16.800000	---	---	5736.500000	5753.300000	PASS



99 % Bandwidth

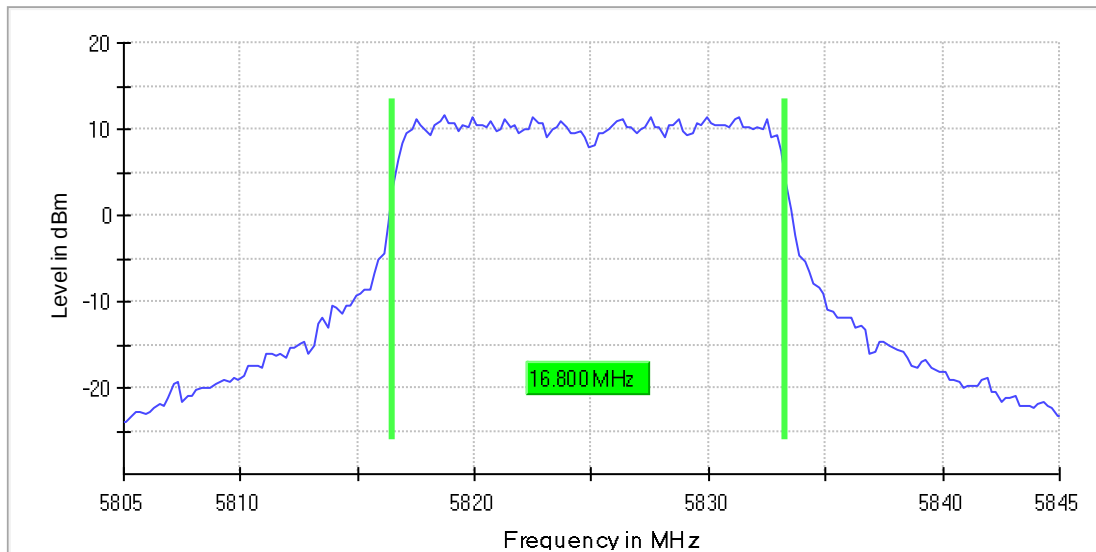
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5785.000000	16.800000	---	---	5776.500000	5793.300000	PASS





99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5825.000000	16.800000	---	---	5816.500000	5833.300000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



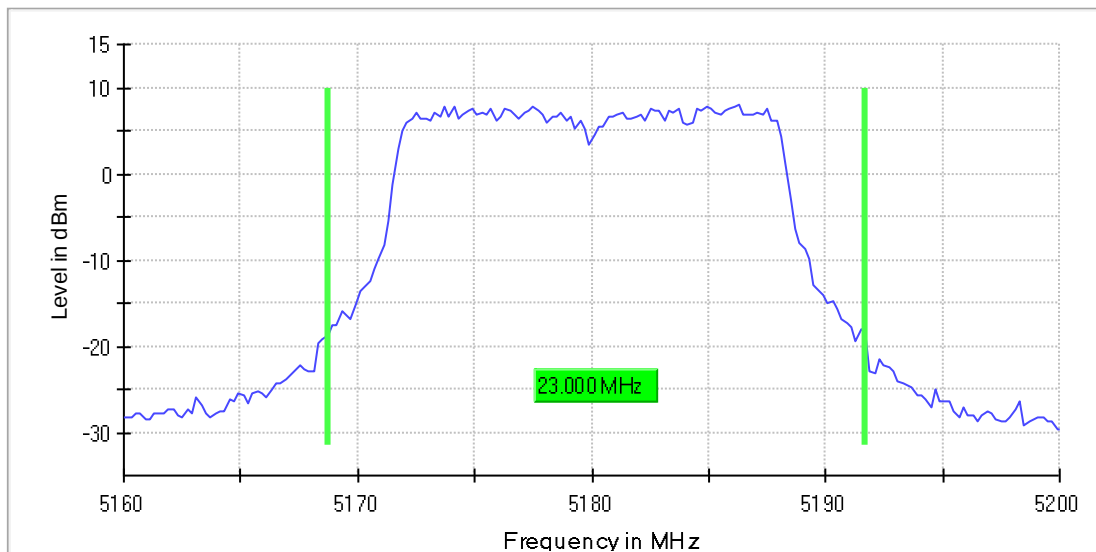
6.2.7. 802.11a MIMO MODE

6.2.7.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5180.000000	23.000000	---	---	5168.700000	5191.700000	8.0

DUT Frequency (MHz)	Result
5180.000000	PASS

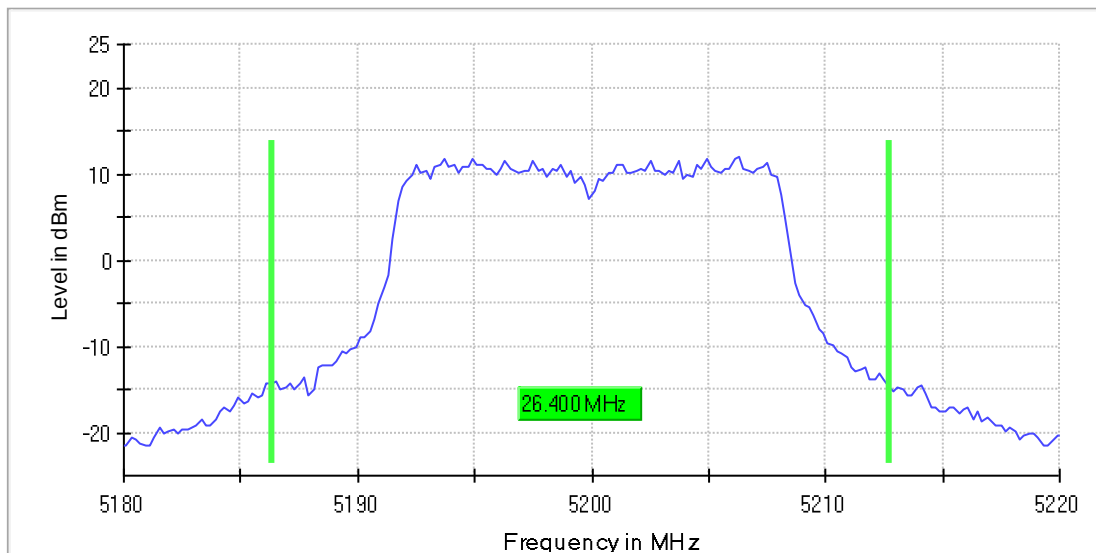




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5200.000000	26.400000	---	---	5186.300000	5212.700000	11.9

DUT Frequency (MHz)	Result
5200.000000	PASS



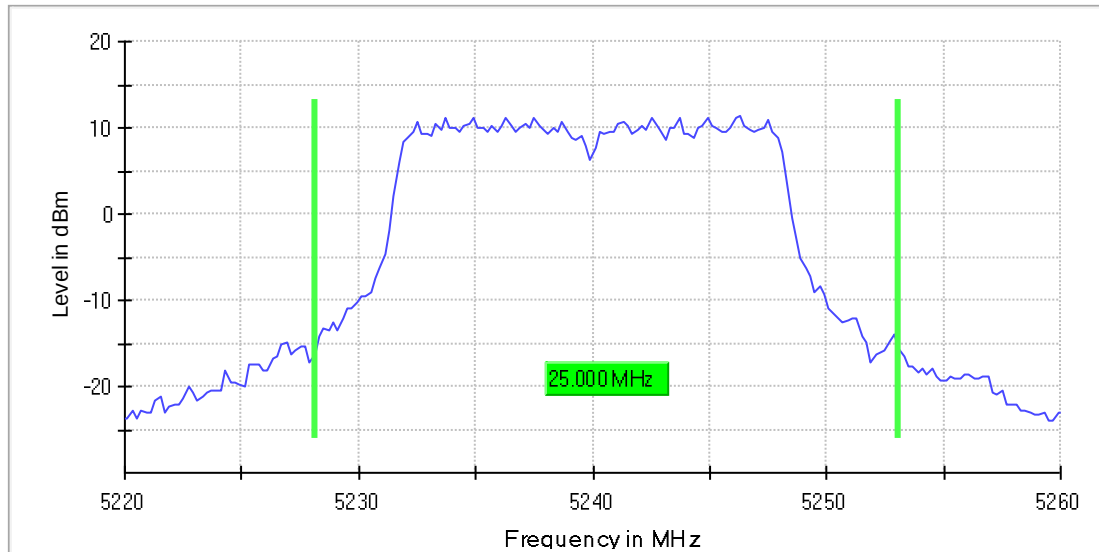


26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5240.000000	25.000000	---	---	5228.100000	5253.100000	11.3

(

DUT Frequency (MHz)	Result
5240.000000	PASS



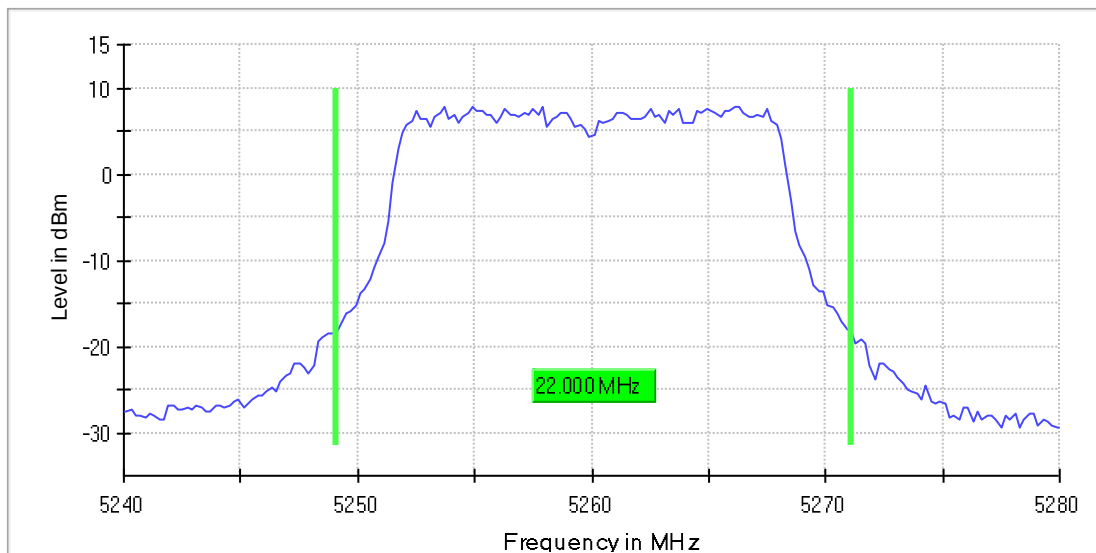


6.2.7.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5260.000000	22.000000	---	---	5249.100000	5271.100000	7.9

DUT Frequency (MHz)	Result
5260.000000	PASS

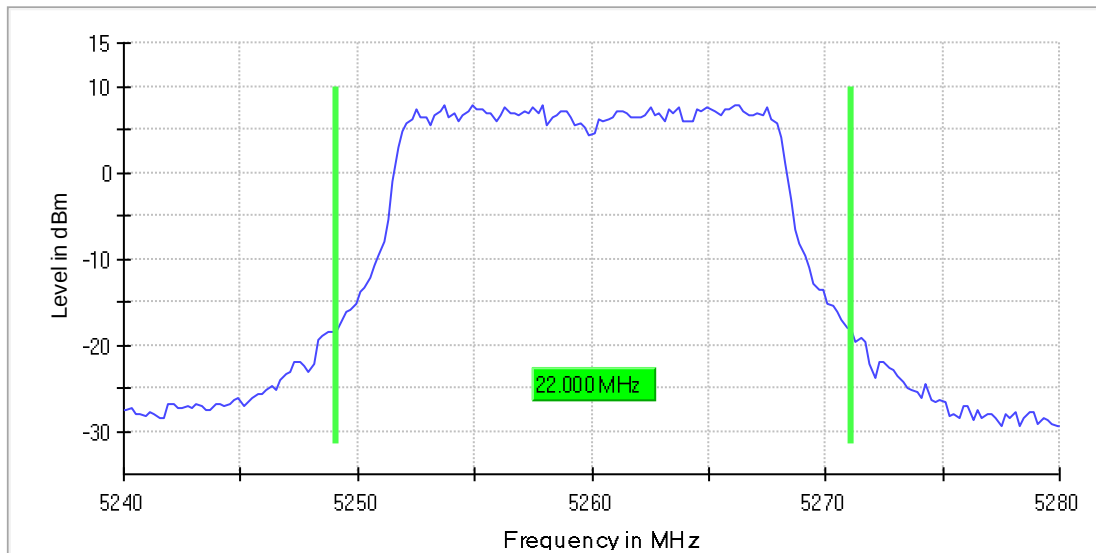




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5300.000000	22.600000	---	---	5288.700000	5311.300000	7.8

DUT Frequency (MHz)	Result
5300.000000	PASS

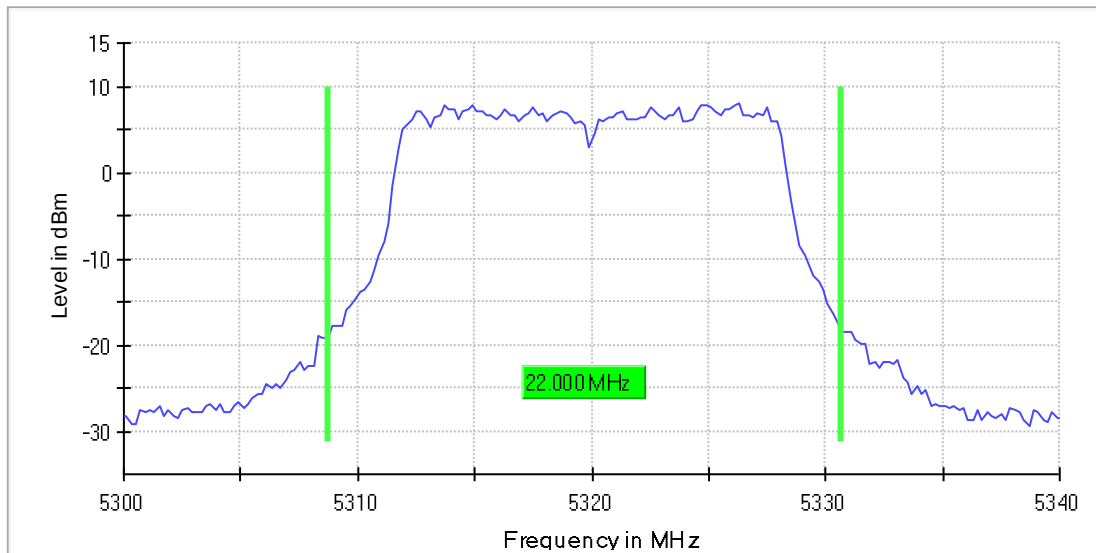




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5320.000000	22.000000	---	---	5308.700000	5330.700000	7.9

DUT Frequency (MHz)	Result
5320.000000	PASS



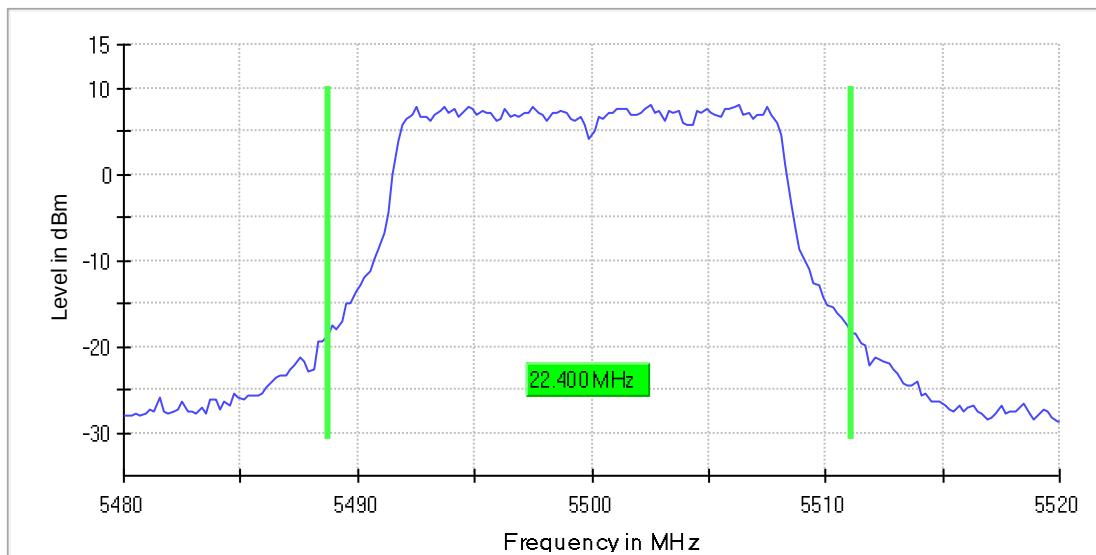


6.2.7.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5500.000000	22.400000	---	---	5488.700000	5511.100000	8.0

DUT Frequency (MHz)	Result
5500.000000	PASS

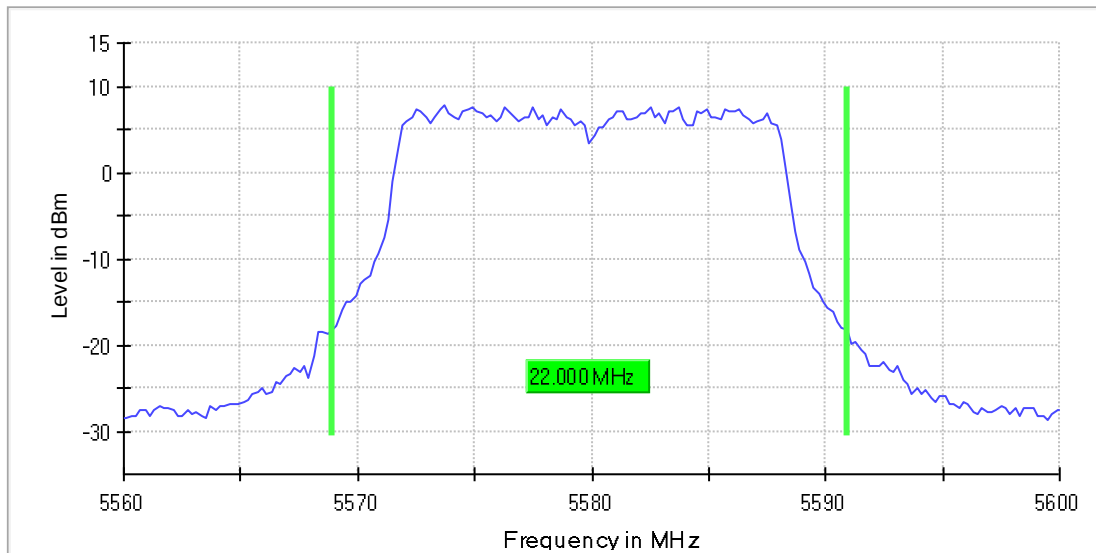




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5580.000000	22.000000	---	---	5568.900000	5590.900000	7.9

DUT Frequency (MHz)	Result
5580.000000	PASS

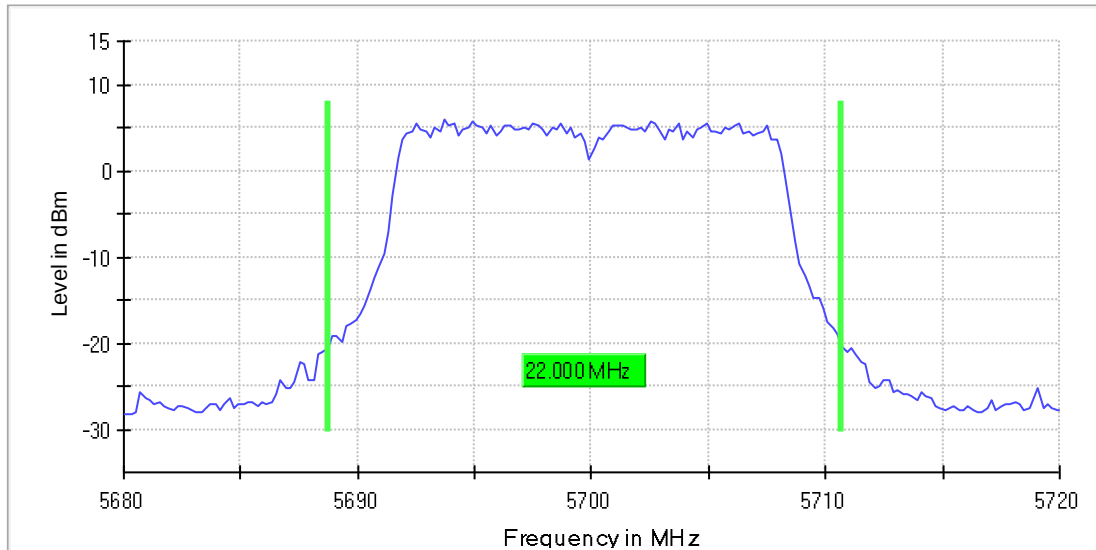




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5700.000000	22.000000	---	---	5688.700000	5710.700000	5.9

DUT Frequency (MHz)	Result
5700.000000	PASS

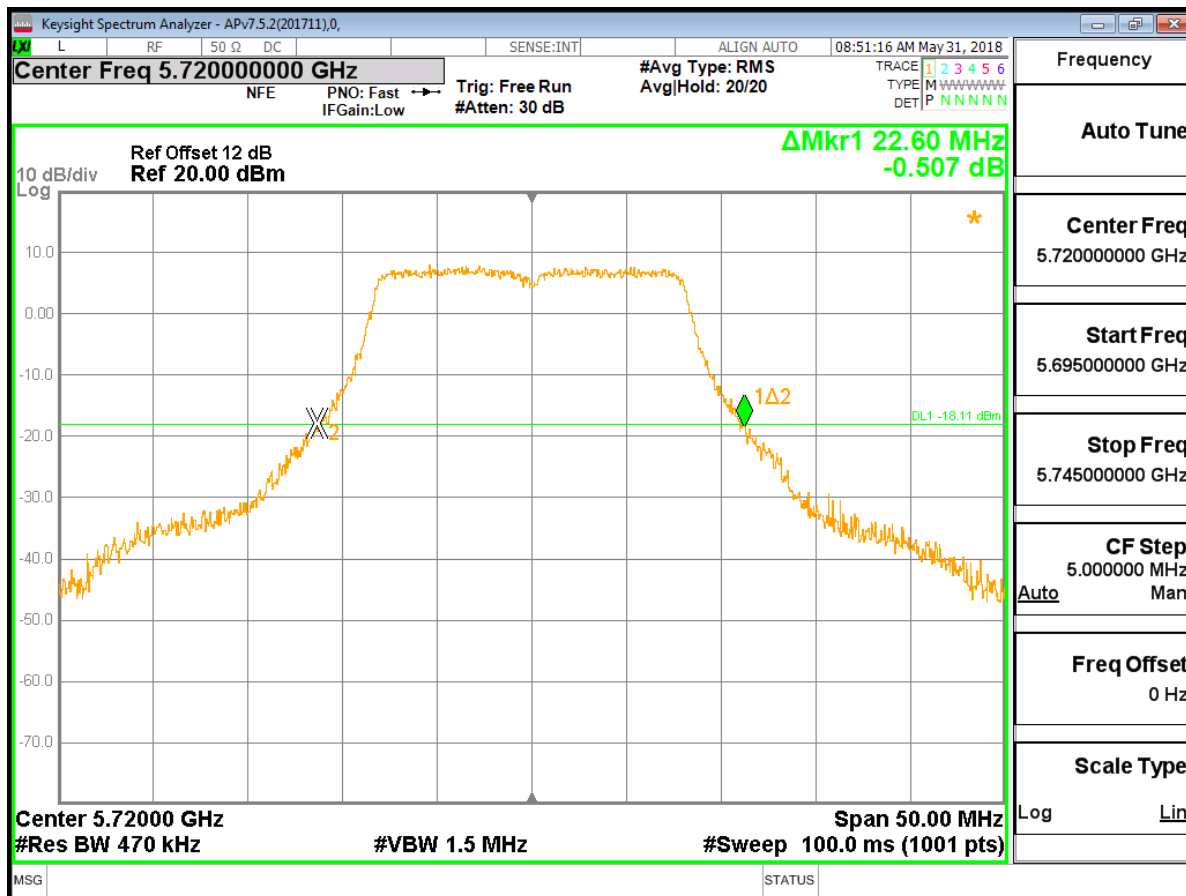




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)
5720.000000	22.600	---	---

DUT Frequency (MHz)	Result
5720.000000	PASS



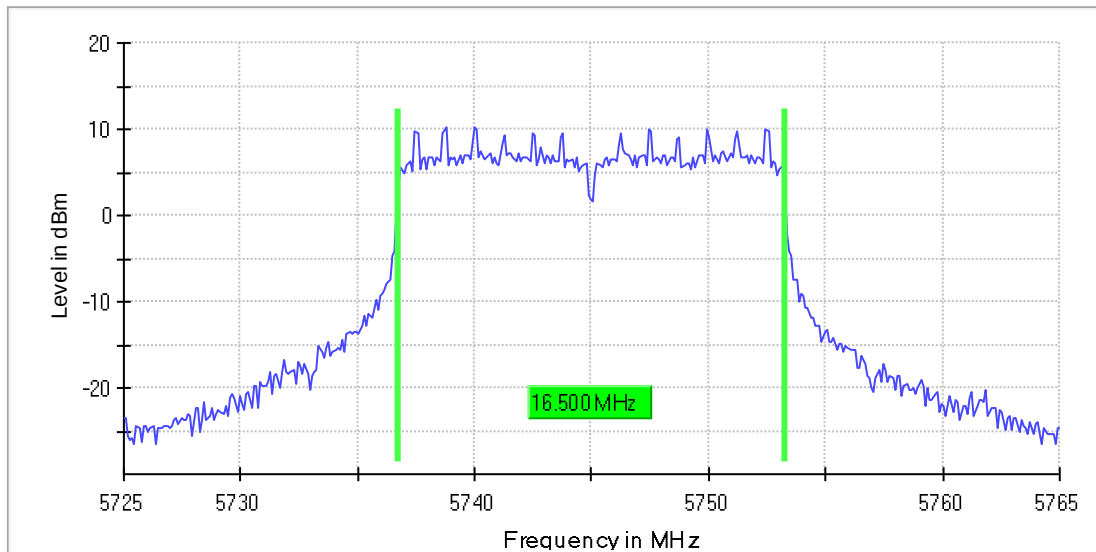


6.2.7.4. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5745.000000	16.500000	0.500000	---	5736.750000	5753.250000	10.3

DUT Frequency (MHz)	Result
5745.000000	PASS

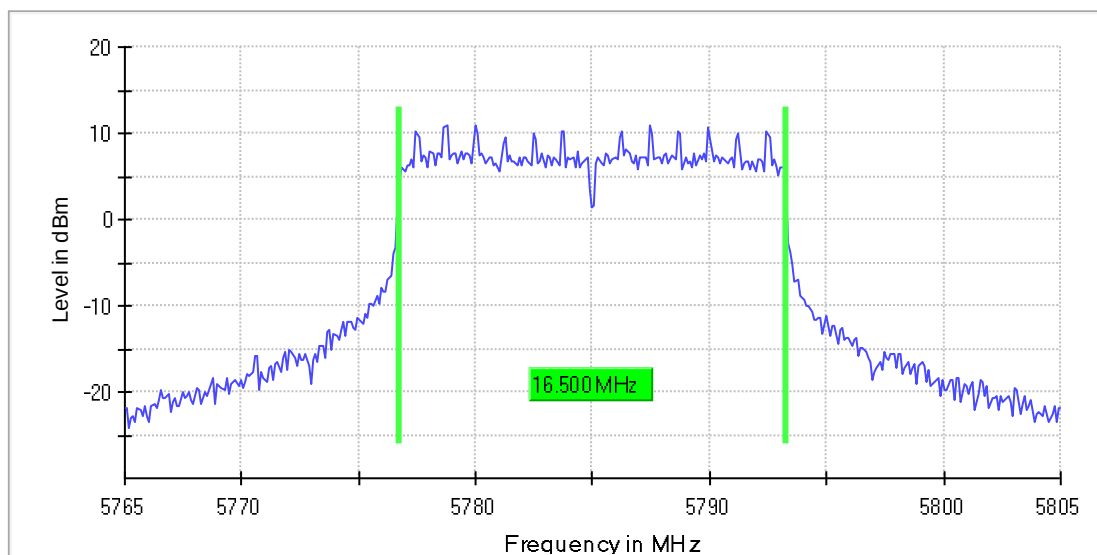




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5785.000000	16.500000	0.500000	---	5776.750000	5793.250000	11.0

DUT Frequency (MHz)	Result
5785.000000	PASS

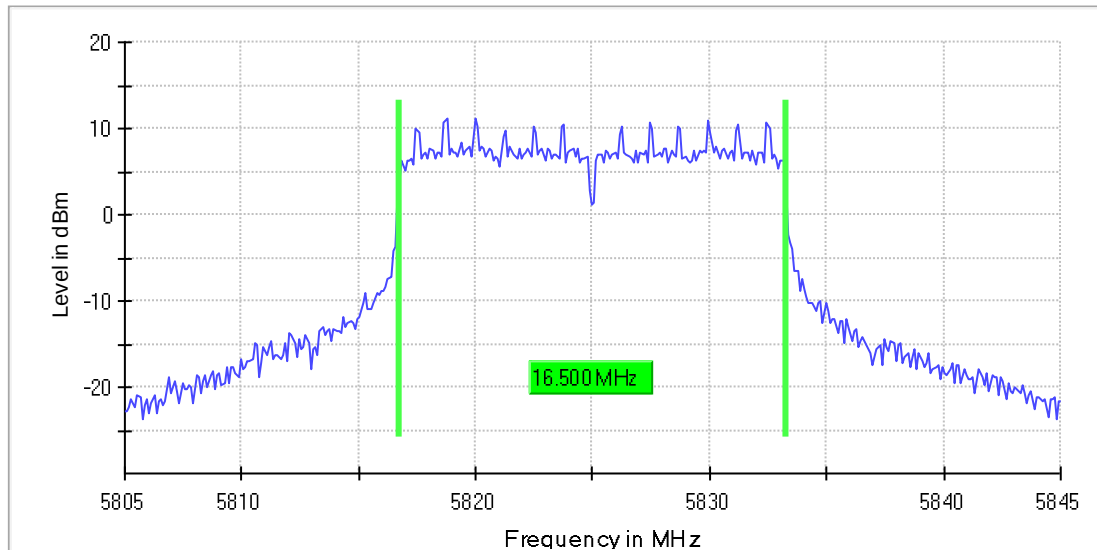




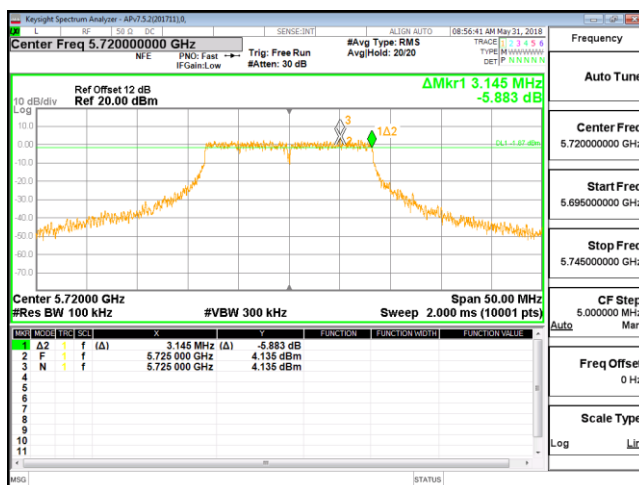
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5825.000000	16.500000	0.500000	---	5816.750000	5833.250000	11.2

DUT Frequency (MHz)	Result
5825.000000	PASS



DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5720.000000	3.145	0.500000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the repo



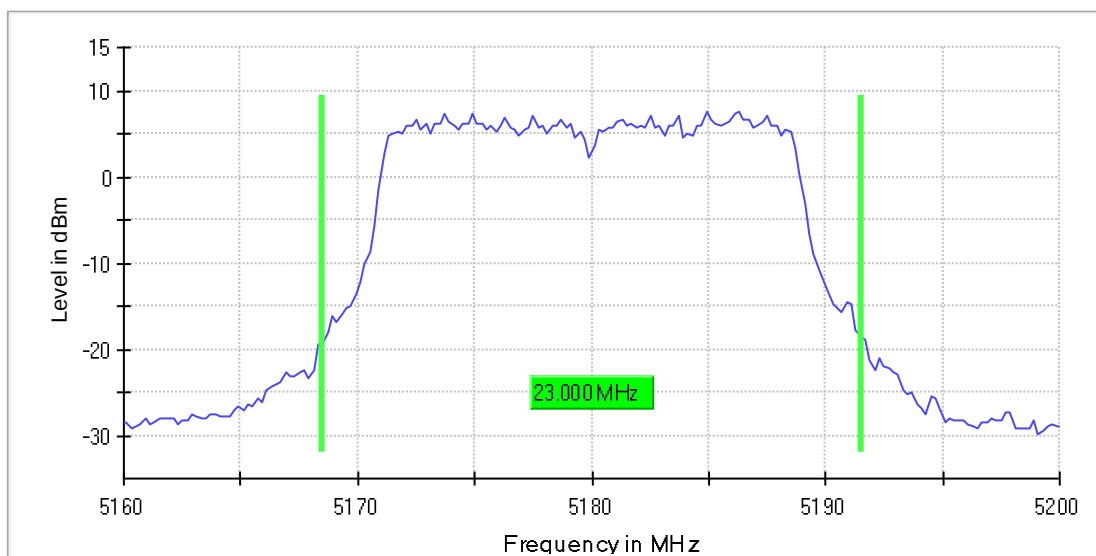
6.2.8. 802.11n HT20 MIMO MODE

6.2.8.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5180.000000	23.000000	---	---	5168.500000	5191.500000	7.5

DUT Frequency (MHz)	Result
5180.000000	PASS

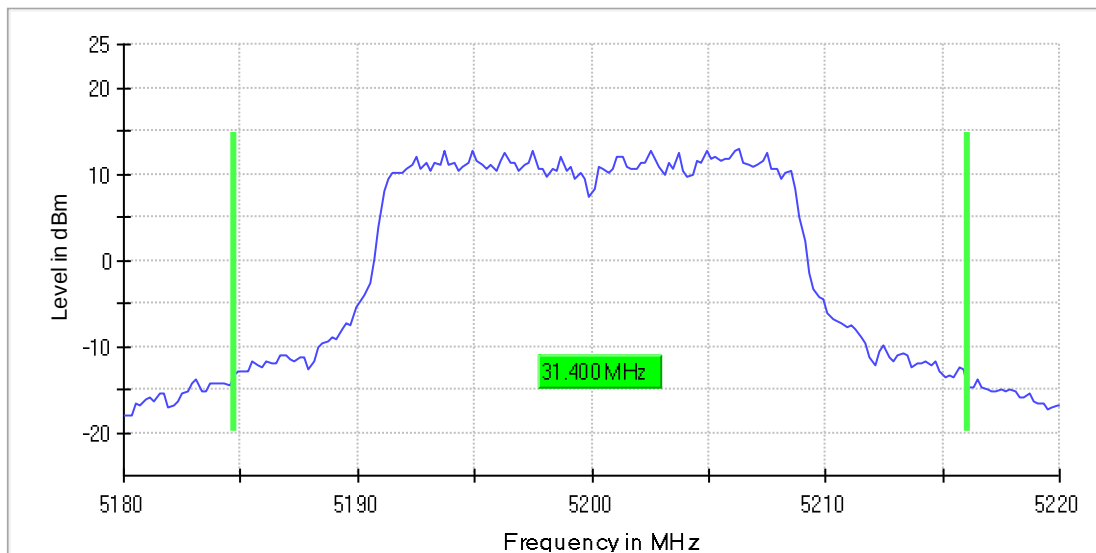




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5200.000000	31.400000	---	---	5184.700000	5216.100000	12.8

DUT Frequency (MHz)	Result
5200.000000	PASS

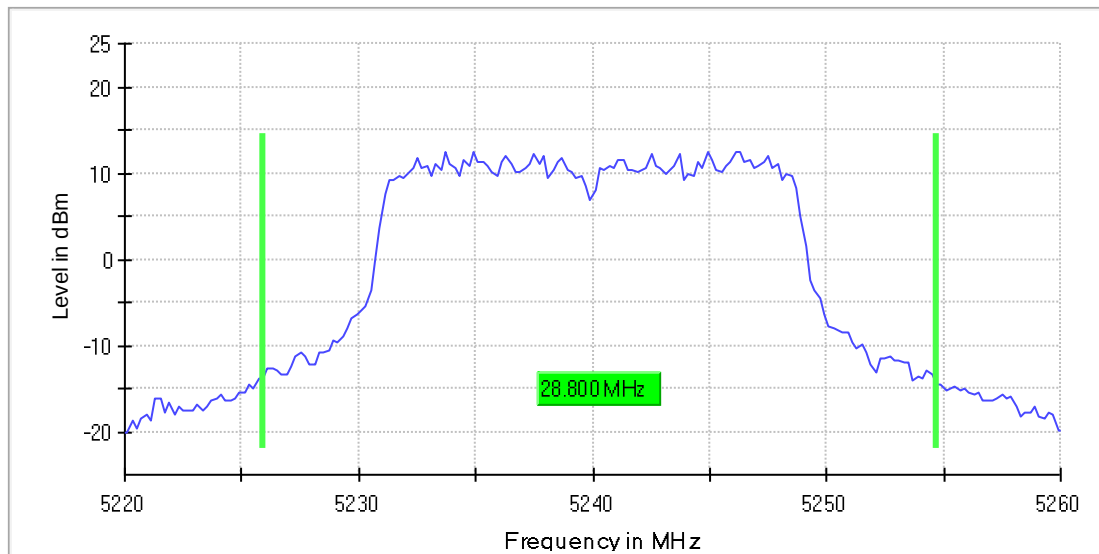




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5240.000000	28.800000	---	---	5225.900000	5254.700000	12.5

DUT Frequency (MHz)	Result
5240.000000	PASS



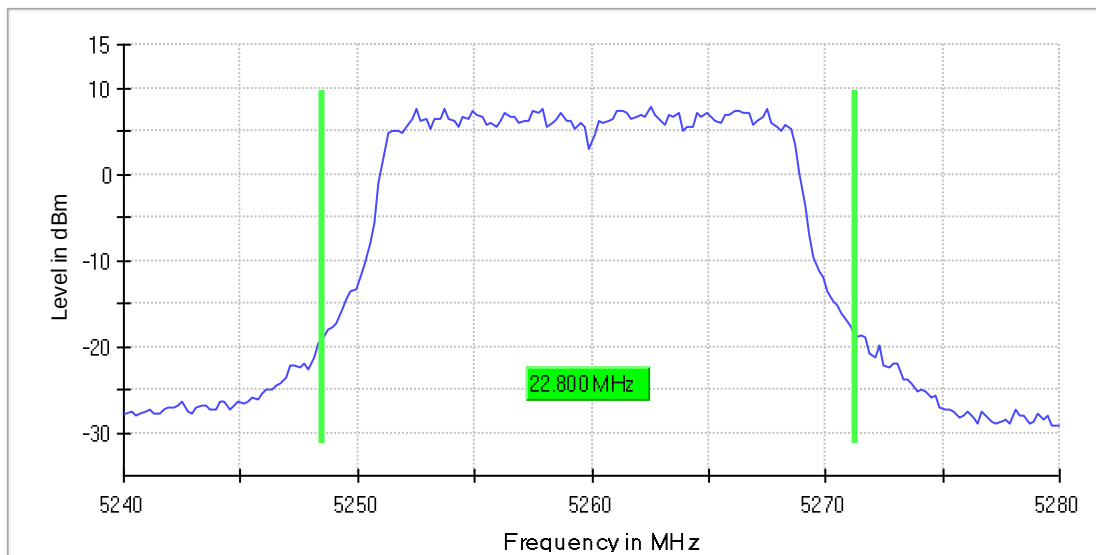


6.2.8.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5260.000000	22.800000	---	---	5248.500000	5271.300000	7.7

DUT Frequency (MHz)	Result
5260.000000	PASS

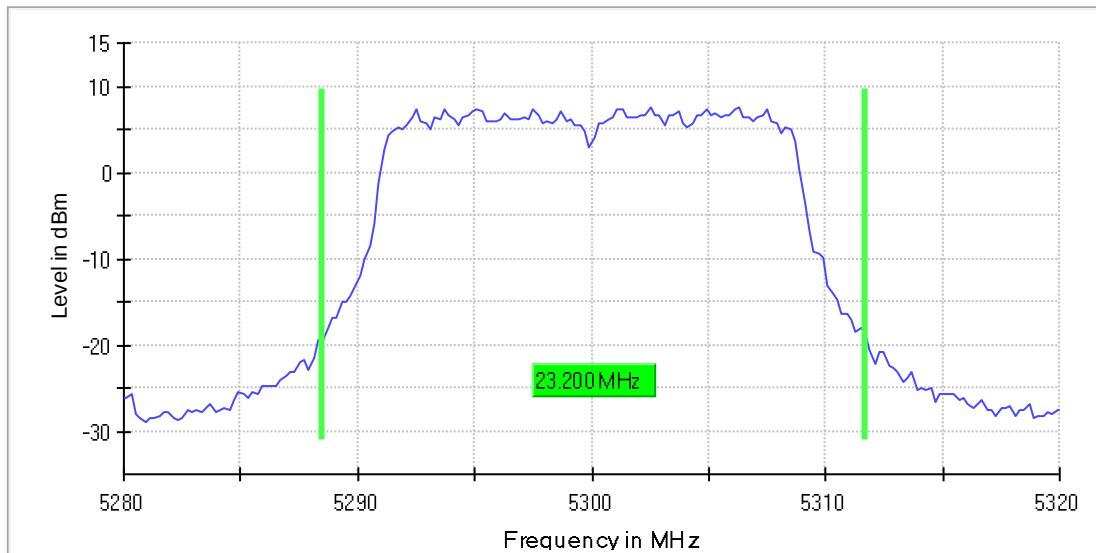




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5300.000000	23.200000	---	---	5288.500000	5311.700000	7.7

DUT Frequency (MHz)	Result
5300.000000	PASS

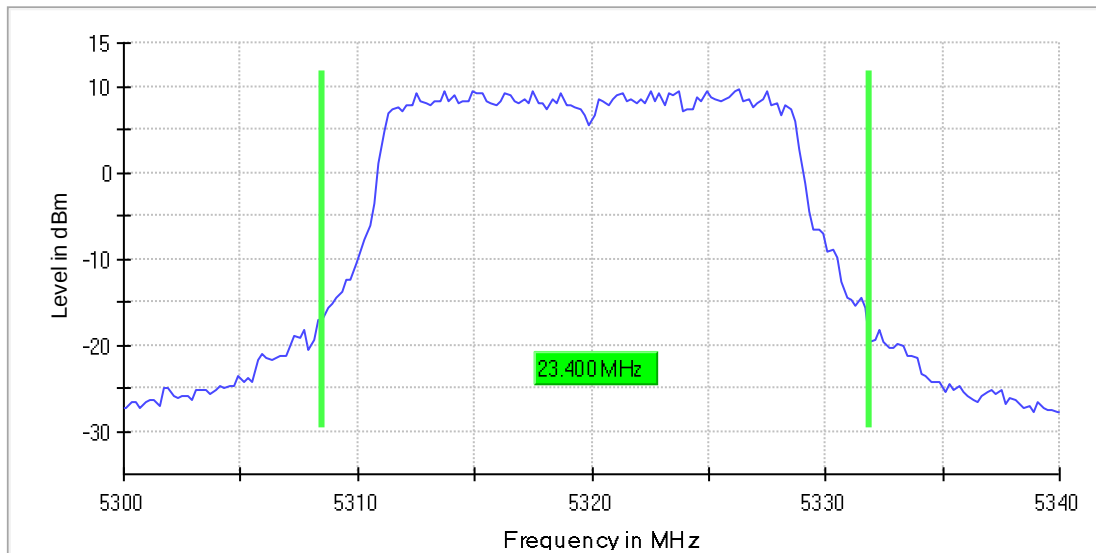




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5320.000000	23.400000	---	---	5308.100000	5331.500000	8.1

DUT Frequency (MHz)	Result
5320.000000	PASS



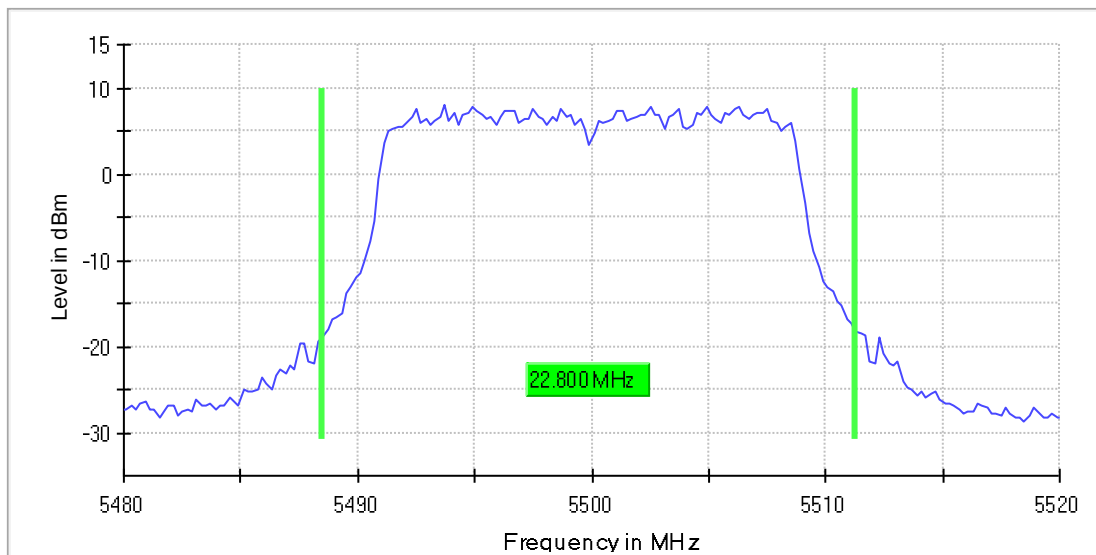


6.2.8.3. UNII-2C BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5500.000000	22.800000	---	---	5488.500000	5511.300000	8.0

DUT Frequency (MHz)	Result
5500.000000	PASS

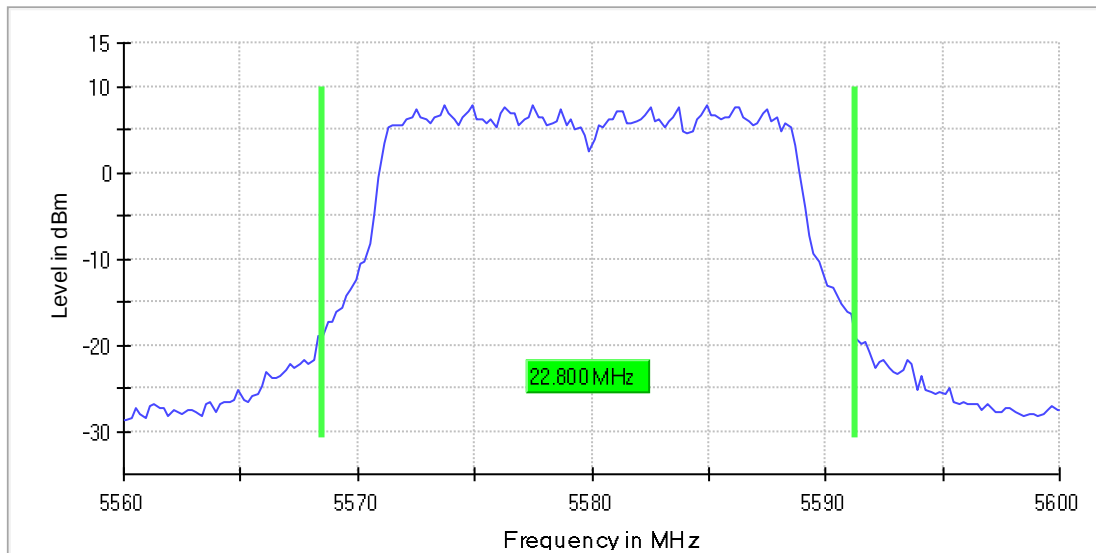




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5580.000000	22.800000	---	---	5568.500000	5591.300000	7.9

DUT Frequency (MHz)	Result
5580.000000	PASS

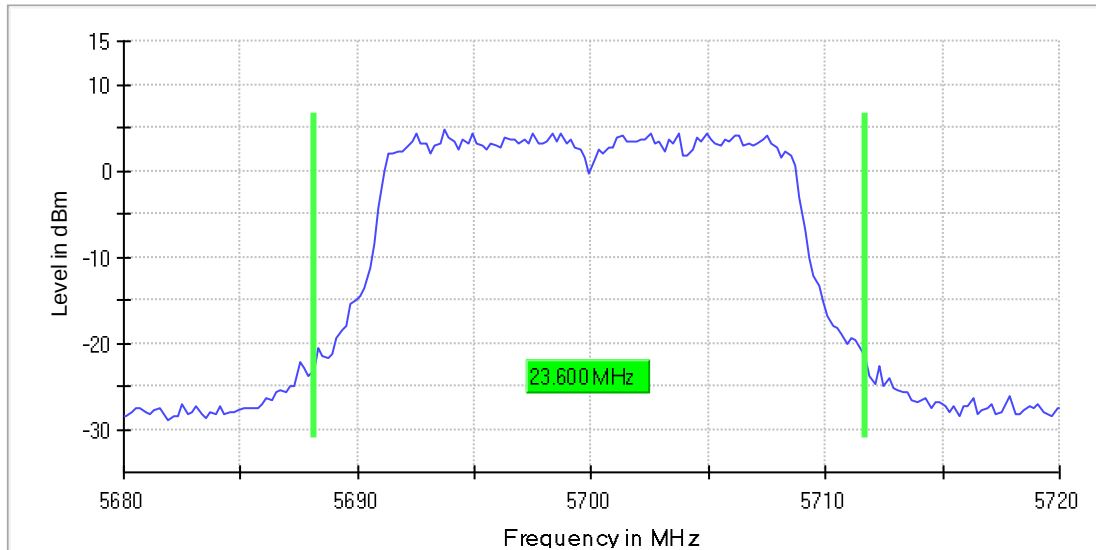




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5700.000000	23.600000	---	---	5688.100000	5711.700000	4.7

DUT Frequency (MHz)	Result
5700.000000	PASS

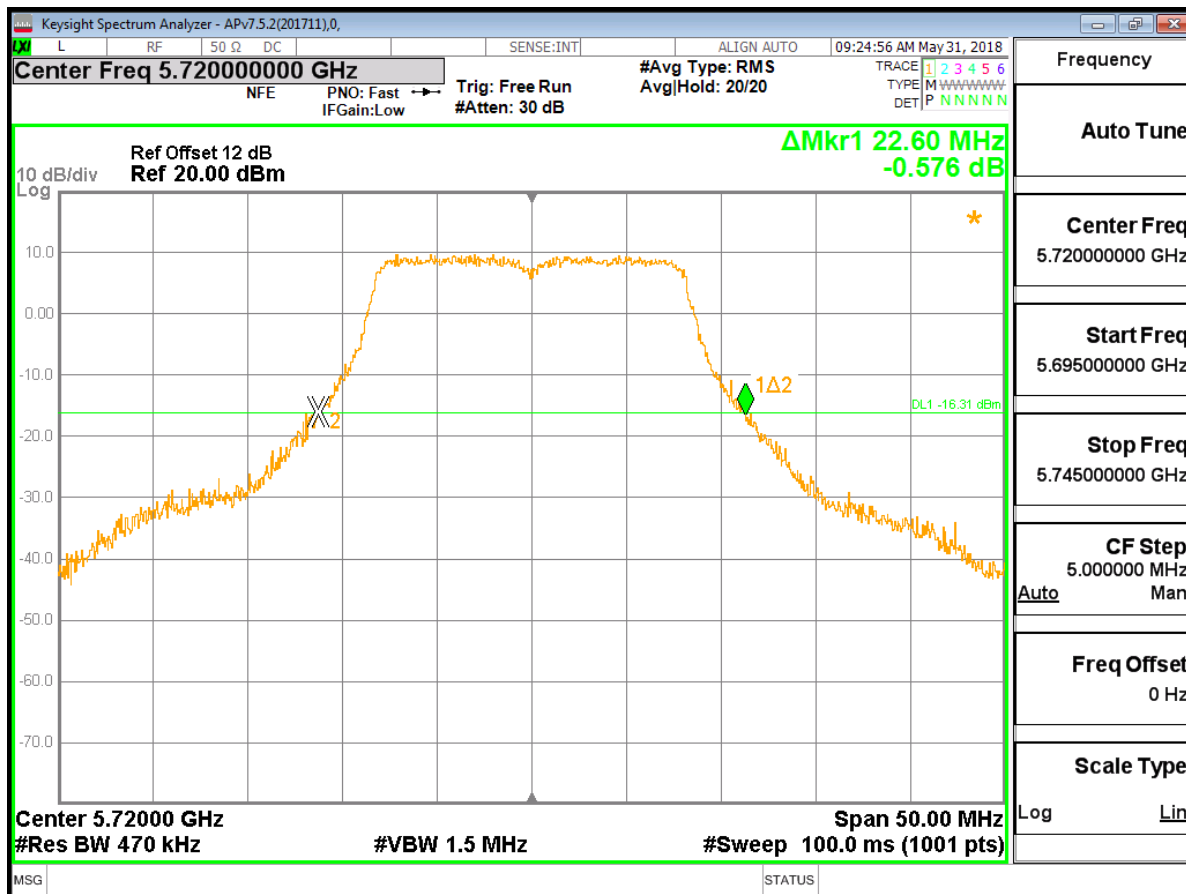




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)
5720.000000	22.600	---	---

DUT Frequency (MHz)	Result
5720.000000	PASS



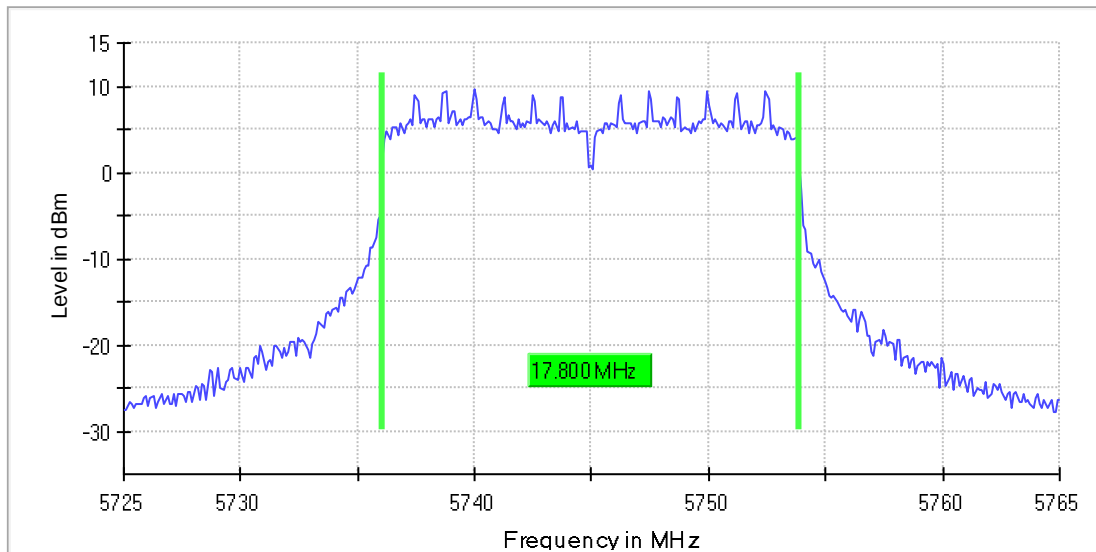


6.2.8.4. UNII-3 BAND

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5745.000000	17.800000	0.500000	---	5736.050000	5753.850000	9.5

DUT Frequency (MHz)	Result
5745.000000	PASS

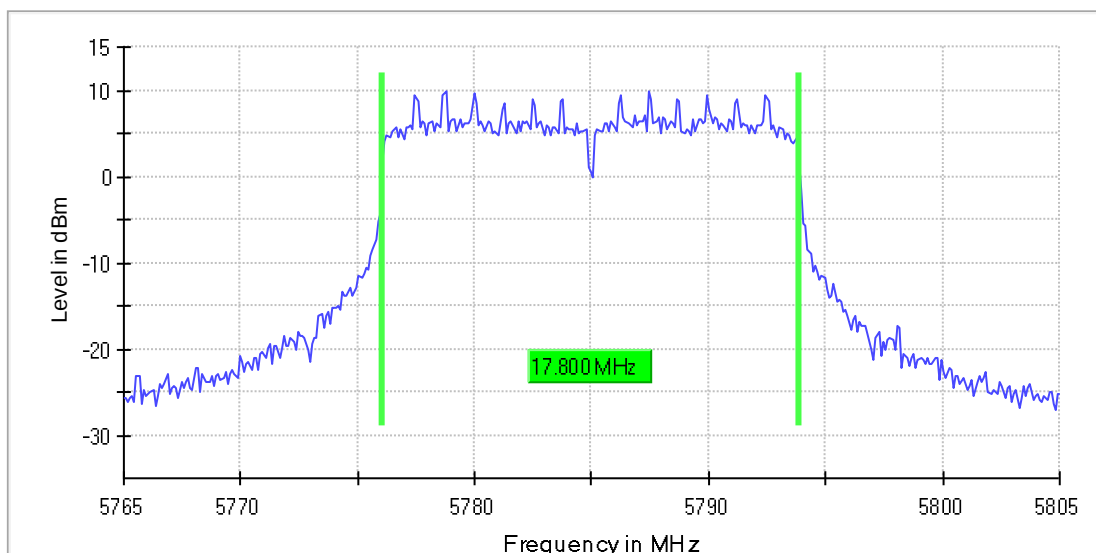




6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5785.000000	17.800000	0.500000	---	5776.050000	5793.850000	9.9

DUT Frequency (MHz)	Result
5785.000000	PASS

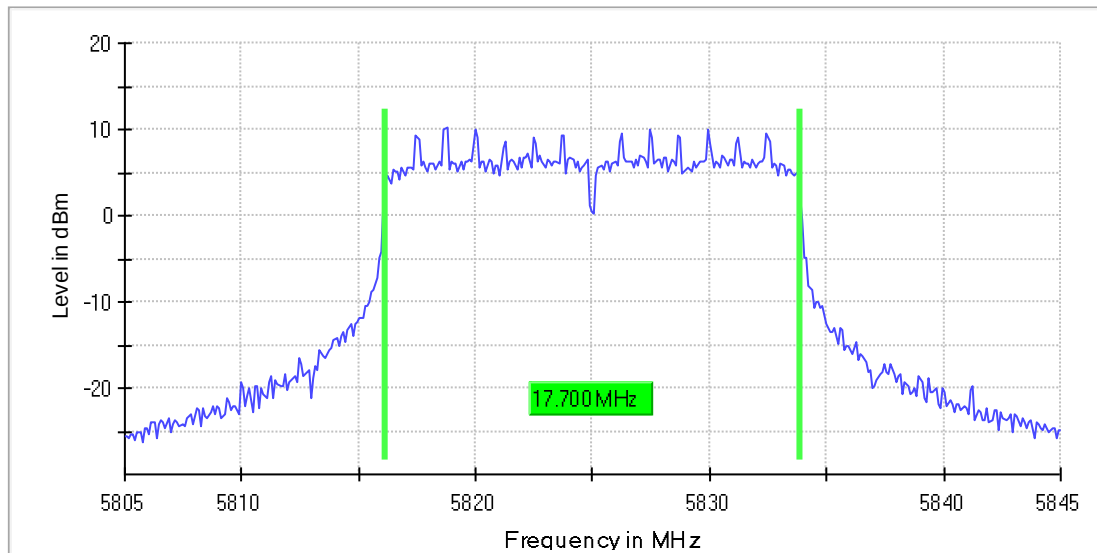




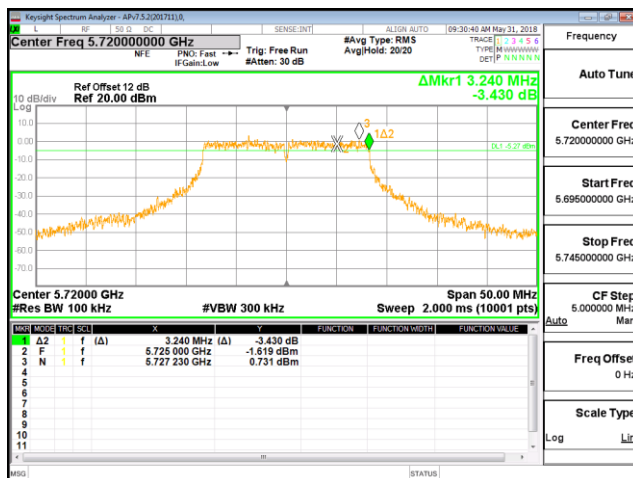
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5825.000000	17.700000	0.500000	---	5816.150000	5833.850000	10.3

DUT Frequency (MHz)	Result
5825.000000	PASS



DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
5720.000000	3.240	0.500000	PASS



Note: All the modes and antenna ports had been tested, only the worst data recorded in the report.



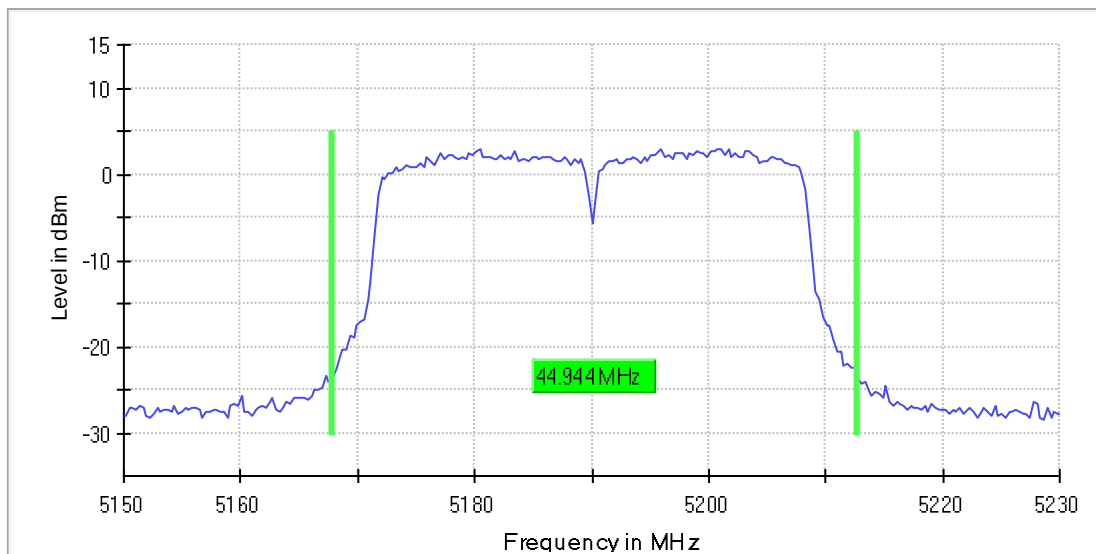
6.2.9. 802.11n HT40 MIMO MODE

6.2.9.1. UNII-1 BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5190.000000	44.943821	---	---	5167.827715	5212.771536	2.9

DUT Frequency (MHz)	Result
5190.000000	PASS

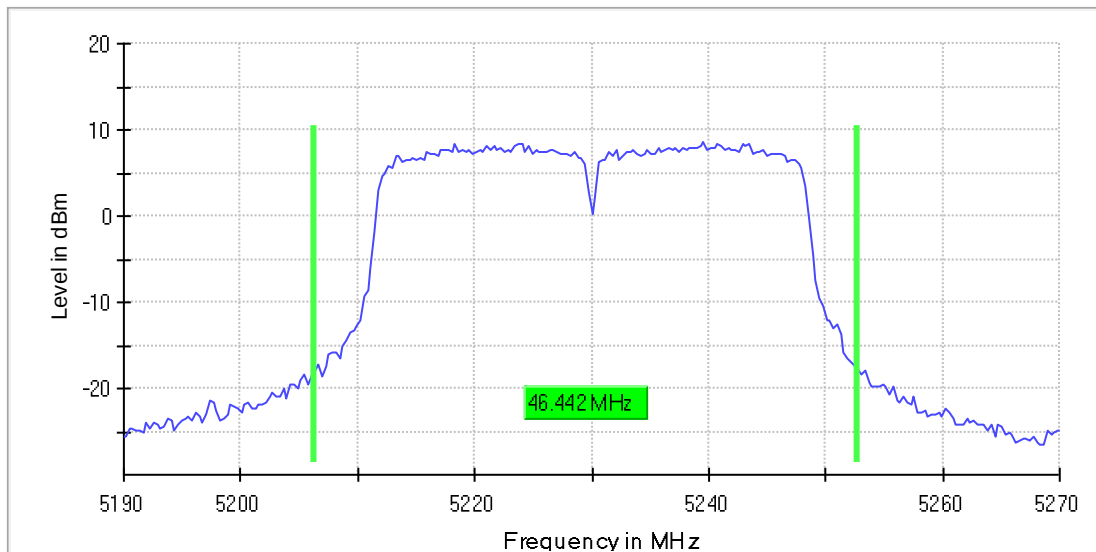




26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5230.000000	46.441948	---	---	5206.329588	5252.771536	8.5

DUT Frequency (MHz)	Result
5230.000000	PASS





6.2.9.2. UNII-2A BAND

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
5270.000000	44.644195	---	---	5247.827715	5292.471910	6.6

DUT Frequency (MHz)	Result
5270.000000	PASS

