

TEST REPORT

Report Number: 16064952-E9V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3447 (Parent)
A3719, A3720, A3721 (Variants)

Brand : APPLE

FCC ID : BCG-E9188A (Parent)
BCG-E9198A, BCG-E9203A, BCG-E9204A (Variants)

IC : 579C-E9188A (Parent)
579C-E9198A, 579C-E9203A, 579C-E9204A (Variants)

EUT Description : SMART PHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
ISED RSS-248 Issue 3
ISED RSS-GEN Issue 5 + A1 + A2

Date Of Issue:
2026-08-03

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-07-08	Initial Review	Thu Chan
V2	2026-08-03	Updated Cover Page, Sections: 6.2, 6.5, 7, 9.3, 11.1, 11.3, 11.5, 11.8, 14.1, 14.2, 14.3, 14.4	Christopher Chan

TABLE OF CONTENTS

REPORT REVISION HISTORY	2
TABLE OF CONTENTS	3
1. ATTESTATION OF TEST RESULTS.....	5
2. TEST RESULT SUMMARY	6
3. TEST METHODOLOGY	7
4. FACILITIES AND ACCREDITATION.....	7
5. DECISION RULES AND MEASUREMENT UNCERTAINTY.....	8
5.1. METROLOGICAL TRACEABILITY	8
5.2. DECISION RULES	8
5.3. MEASUREMENT UNCERTAINTY	8
5.4. SAMPLE CALCULATION.....	8
6. EQUIPMENT UNDER TEST	9
6.1. EUT DESCRIPTION.....	9
6.2. MAXIMUM OUTPUT POWER.....	10
6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS	11
6.4. SOFTWARE AND FIRMWARE	11
6.5. WORST-CASE CONFIGURATION AND MODE.....	12
6.6. DESCRIPTION OF TEST SETUP.....	14
7. TEST AND MEASUREMENT EQUIPMENT	18
8. MEASUREMENT METHOD	20
9. ANTENNA PORT TEST RESULTS	21
9.1. ON TIME AND DUTY CYCLE	21
9.2. 26 dB AND 99% BANDWIDTH.....	22
9.2.1. UNII-5 BAND SISO MODE.....	23
9.2.2. UNII-5 BAND MIMO TXBF MODE	27
9.3. VLP OUTPUT POWER AND PSD	28
9.3.1. UNII-5 BAND SISO MODE.....	30
9.3.2. UNII-5 BAND MIMO TXBF MODE	32
9.4. VLP SPURIOUS EMISSIONS IN-BAND– EMISSION MASK.....	33
9.4.1. HIGH POWER UNII-5 BAND SISO MODE	35
9.4.2. HIGH POWER UNII-5 BAND MIMO TXBF MODE.....	44
9.4.3. LOW POWER UNII-5 BAND SISO MODE	53
9.4.4. LOW POWER UNII-5 BAND MIMO TXBF MODE.....	62
10. VLP TPC.....	71

11. RADIATED TEST RESULTS	73
STATE A	75
11.1. TRANSMITTER OUTSIDE 5.925 - 7.125 GHz, 1- 18GHz.....	75
11.1.1. UNII-5 BAND SISO MODE – BANDEDGE – HIGH POWER	75
11.1.2. UNII-5 BAND MIMO MODE – BANDEDGE – HIGH POWER.....	77
11.1.3. UNII-5 BAND MIMO TXBF MODE - SPURIOUS EMISSIONS – HIGH POWER..	79
11.2. WORST CASE BELOW 1 GHz – HIGH POWER	86
11.3. WORST CASE 18-26 GHz – HIGH POWER	88
11.4. WORST CASE 26-40 GHz – HIGH POWER	90
STATE B	92
11.5. TRANSMITTER OUTSIDE 5.925 - 7.125 GHz, 1- 18GHz.....	92
11.5.1. UNII-5 BAND SISO MODE – BANDEDGE – HIGH POWER	92
11.5.2. UNII-5 BAND MIMO MODE – BANDEDGE – HIGH POWER.....	94
11.5.3. UNII-5 BAND MIMO TXBF MODE - SPURIOUS EMISSIONS – HIGH POWER..	96
11.6. WORST CASE BELOW 1 GHz – HIGH POWER	103
11.7. WORST CASE 18-26 GHz – HIGH POWER	105
11.8. WORST CASE 26-40 GHz – HIGH POWER	107
12. AC POWER LINE CONDUCTED EMISSIONS	109
12.1. EUT WITH AC ADAPTER.....	110
12.2. EUT WITH LAPTOP	112
13. SETUP PHOTOS.....	114
14. APPENDIX A - SPOT CHECK EVALUATION.....	114
14.1. MODEL DIFFERENCES.....	114
14.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3719.....	115
14.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3720.....	115
14.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3721.....	115

1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3447 (Parent) A3719, A3720, A3721 (Variants)
Brand	APPLE
FCC ID	BCG-E9188A (Parent Model) BCG-E9198A, BCG-E9203A, BCG-E9204A (Variant Models)
IC	579C-E9188A (PARENT MODEL) 579C-E9198A, 579C-E9203A, 579C-E9204A (VARIANT MODELS)
EUT Description	SMARTPHONE
Serial Number	C07HPF000800000ZYA, C07HTH000DS0001B59, C07HTU0005K0001B56, C07HTF0003Z0001B57, C07HTG0028A0001P0R (Conducted) K2DLVM4C2D, J0C02TN797, CXNYP92621, G3FCQ391K2, DYFQDX72WF (Radiated)
Sample Receipt Date	2026-02-11
Date Tested	2026-02-11 to 2026-07-01
Applicable Standards	FCC 47 CFR Part 15 Subpart E ISED RSS-248 Issue 3 ISED RSS-GEN Issue 5 + A1 + A2
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.	
Approved & Released By:	Prepared & Reviewed By:
	
Thu Chan Staff Engineer UL Verification Services Inc.	Christopher Chan Laboratory Supervisor UL Verification Services Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Comment
Duty Cycle	-		Reporting purposes only	None
99% BW	§15.407 (a) (11) RSS-248 4.4 KDB 987594 D03 Q18		Complies	None
26dB BW				
Output Power EIRP	§15.407 (a) (7), (8), (9)	RSS-248 4.5.3, 4.5.5, 4.5.6	Complies	Dual Client
PSD EIRP	§15.407 (a) (7), (8), (9)	RSS-248 4.5.3, 4.5.5, 4.5.6	Complies	Dual Client
Emissions outside 5.925-7.125 GHz band	§15.407 (b) (6)	RSS-248 4.6.2(a)	Complies	None
Emissions within 5.925-7.125 GHz Band (Emissions Mask)	§15.407 (b) (7)	RSS-248 4.6.2(b)	Complies	None
Unwanted emissions in restricted bands	§15.205	RSS-GEN 8.10	Complies	None
Radiated Spurious Emissions	§15.209	RSS-GEN 8.9	Complies	None
AC Mains Conducted Emissions	§15.207	RSS-GEN 8.8	Complies	None
Transmit Power Control Mechanism	§15.407 (d) (10)	RSS-248 4.5.6	Complies	Very Low Power Device

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC 47 CFR Part 2
- FCC 47 CFR Part 15E
- FCC KDB 414788 D01 Radiated Test Site
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- FCC KDB 987594 D01 General Requirements
- FCC KDB 987594 D02 EMC Measurement
- FCC KDB 484596 D01 Referencing Test Data
- RSS-248 Issue 3
- RSS-GEN Issue 5 + A1 +A2
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB (Ave), 1.30 dB (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

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

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

The EUT is considered a “Foldable Smartphone” and can be operated in two unique operating states – phone “fully closed” (State A) and phone “fully open” (State B). The test results of both operating states are reported.

This report covers the UNII-5 NB, which operates in the frequency range of 6106-6420MHz, equipped with VLP client device.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum EIRP output power as follows:

UNII-5 Frequency Range (MHz)	Mode	Antenna	Output Power EIRP (dBm)	Output Power EIRP (mW)
6106 -6420	BDR	Ant 6	-6.66	0.22
		Ant 5	-6.71	0.21
		BF, Ant 6 + Ant 5	-7.7	0.17
6106 -6420	LE1M	Ant 6	-5.92	0.26
		Ant 5	-5.99	0.25
		BF, Ant 6 + Ant 5	-7.21	0.19
6106 -6420	LE2M	Ant 6	-5.42	0.29
		Ant 5	-5.46	0.28
		BF, Ant 6 + Ant 5	-6.67	0.22
6106 -6420	HDT2	Ant 6	-3.99	0.40
		Ant 5	-3.71	0.43
		BF, Ant 6 + Ant 5	-4.96	0.32
6106 -6420	HDT4	Ant 6	-3.66	0.43
		Ant 5	-3.76	0.42
		BF, Ant 6 + Ant 5	-4.92	0.32
6106 -6420	XHDRPS2	Ant 6	-4.69	0.34
		Ant 5	-4.71	0.34
		BF, Ant 6 + Ant 5	-5.69	0.27
6106 -6420	HDR4	Ant 6	-4.16	0.38
		Ant 5	-4.23	0.38
		BF, Ant 6 + Ant 5	-5.21	0.30
6107 -6420	HDRPM16	Ant 6	-1.42	0.72
		Ant 5	-1.48	0.71
		BF, Ant 6 + Ant 5	-2.46	0.57
6109 -6417	HDRPL8	Ant 6	1.57	1.44
		Ant 5	1.54	1.43
		BF, Ant 6 + Ant 5	0.57	1.14

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain and type, cable loss as provided by the manufacturer are as follows:

Antenna Type is PIFA.

State A:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
6105 - 6425 UNII-5	Sub-band 2 (6115 - 6255)	-2.60	1.50	-1.00	1.10
	Sub-band 3 (6275 - 6415)	-2.50	1.80	-0.40	1.90

State B:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
6105 - 6425 UNII-5	Sub-band 2 (6115 - 6255)	-1.90	1.80	-0.40	2.00
	Sub-band 3 (6275 - 6415)	-2.70	1.80	-0.40	2.10

Cable: SMA

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dB)	Antenna 5 (dB)
5925-6105	-2.13	-3.03
6105-6265	-2.13	-3.03
6265-6425	-2.13	-3.03

Cable loss used for RF antenna port tests was included in offset of the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was 23A258.

6.5. WORST-CASE CONFIGURATION AND MODE

This report is to document the very low power client mode only.

The EUT was investigated in three orthogonal orientations X, Y and Z on ANT 6, ANT 5 and 2TX. The following table exhibits the worst-case orientation. The full tests of the EUT have been made upon the orientations shown in the table below.

State A:

Band	ANT6	ANT5	ANT6+5
6GHz	Z-Portrait	Z-Portrait	Z-Portrait

State B:

Band	ANT6	ANT5	ANT6+5
6GHz	Y-Landscape	Z-Portrait	Y-Landscape

For Radiated band edge test, all test modes have been investigated with power setting equal or higher than conducted SISO modes as worst-case scenario and no emissions at both lower and upper band edges were found.

The output power between State A and State B is identical; therefore, only a single conducted test result is presented. Where applicable, the higher antenna gain of the two States has been used to assess compliance.

For radiated tests, full testing was performed on both State A and State B due to differences in antenna gain between the two states.

For AC line conducted emissions, only the worst-case test results are included in this report.

For the radiation spurious harmonics testing, we have investigated both SISO and MIMO modes under low power and high power, only high power mode data is included in the report, as this represents the worst case.

2TX Beamforming modes were used to perform on radiated harmonic spurious final test to cover all SISO modes. Max power was tuned to maximum based among all the modes. For testing purposes, radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the 2TX Beamforming mode with power setting equal or higher than conducted SISO modes as worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

All simultaneous transmission combinations have been investigated, and no signal emissions were observed.

Plots included in the report are representative of the method and settings parameters used for the test.

After the investigation, the worst case of power and PSD modes selected for test are as shown in the table shown below.

UNII-5					
Mode	BW (MHz)	Modulation	Frequency Range (MHz)	Worst Case Tone	
				Power	PSD
BT5G	1MHz	BDR	6106-6420	X	X
	1.5MHz	EDR	6106-6420		
LE	1MHz	LE Adv	6106-6420		
		LE1M		X	X
		LELR125k			
		LELR500k			
	2MHz	LE2M	6106-6420	X	X
	2.5MHz	HDT2	6106-6420		X
		HDT3			
		HDT4		X	
		HDT6			
		HDT8			
HDR	2.5MHz	HDR4	6106-6420	X	
		HDRPS2			
		XHDRPS2			X
	5MHz	HDR8	6107-6420		
		HDRPM4			
		HDRPM6			
		HDRPM8			
		XHDRPM4			
		XHDRPM6			
		XHDRPM8			
		HDRPM12			
		HDRPM16		X	X
		XHDRPM12			
		XHDRPM16			
	9MHz	HDRPL8	6109-6417	X	X
		HDRPL12			
		HDRPL16			
		XHDRPL8			
		XHDRPL12			
		XHDRPL16			
		HDRPL24			
		HDRPL32			
		XHDRPL24			
		XHDRPL32			

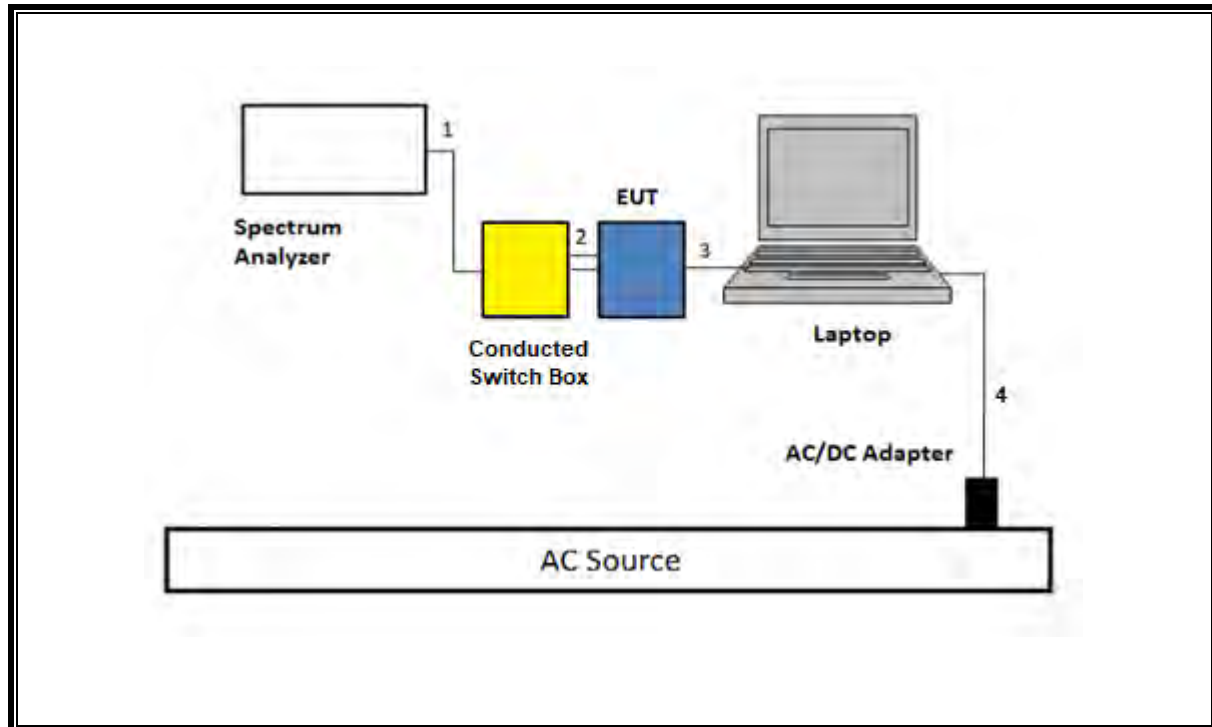
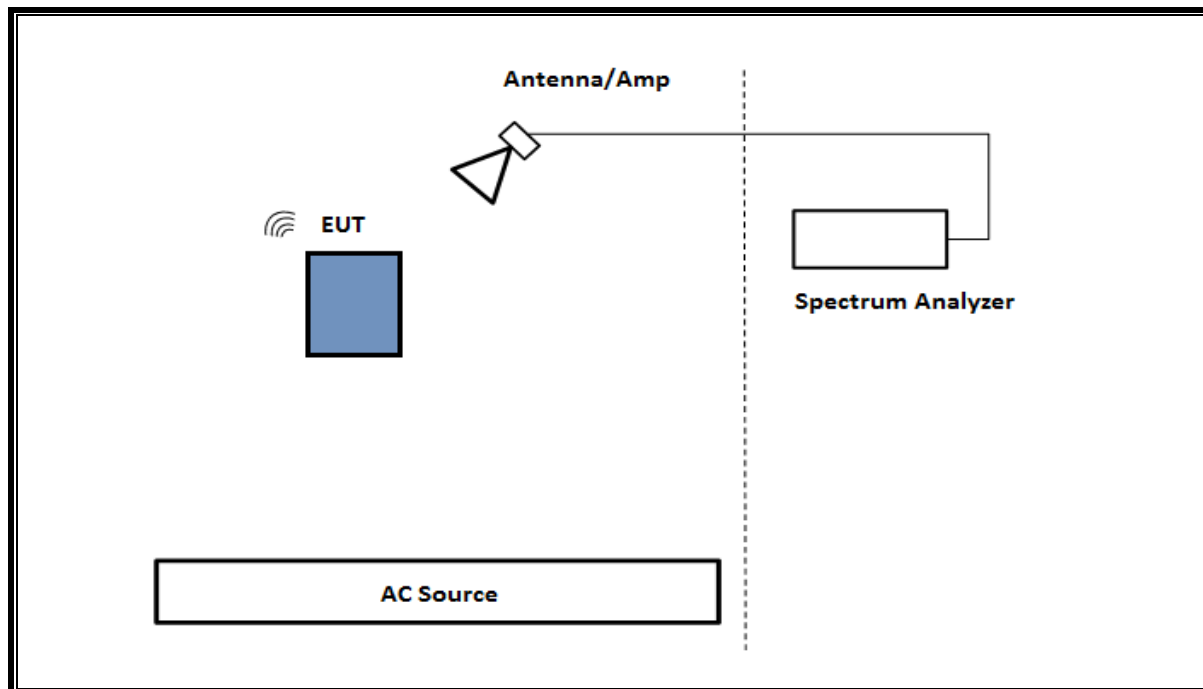
6.6. DESCRIPTION OF TEST SETUP

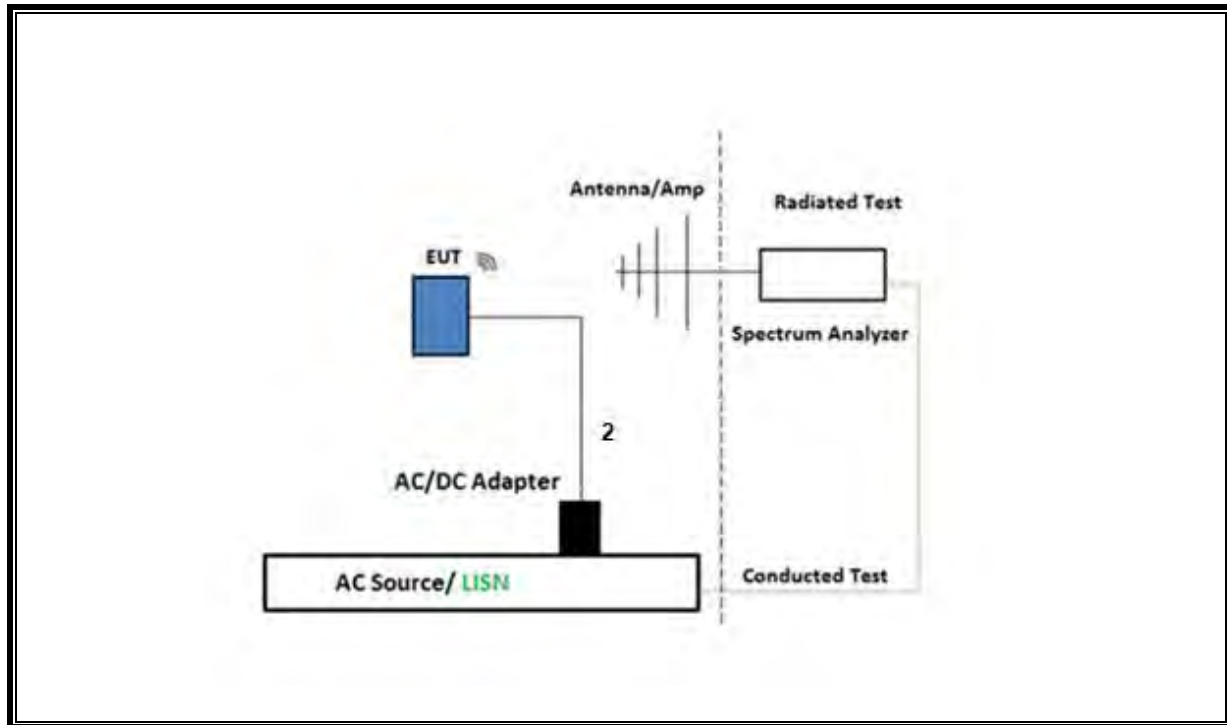
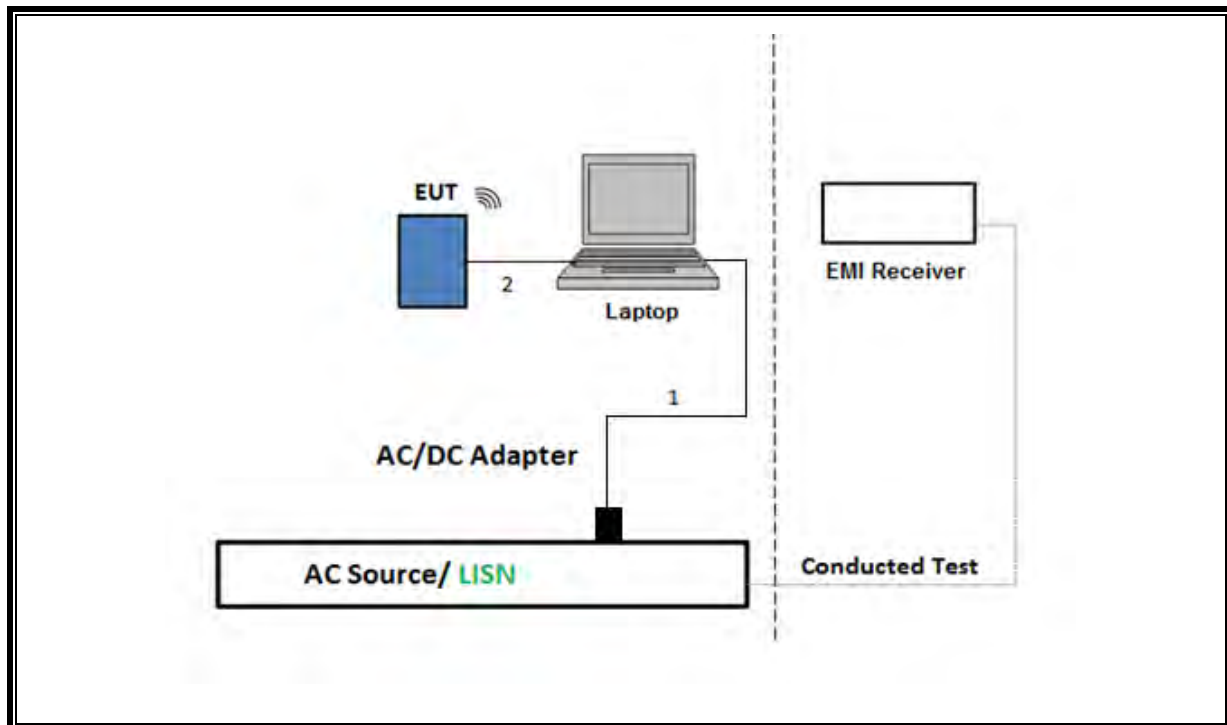
SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter		Apple	A1720	C3D8417A7R93KVPA8		DoC
Conducted Switch Box		UL	n/a	208281		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shielded	1.0	N/A
4	DC	1	DC	Shielded	2	N/A
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A
I/O CABLES (TPC CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	2-Prong	Un-shielded	1	DC to AC Mains
2	DC	1	DC	Shielded	1.5	N/A
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	SMA	4	SMA	Shielded	0.75	To PXA, coupler, step attenuator and companion device

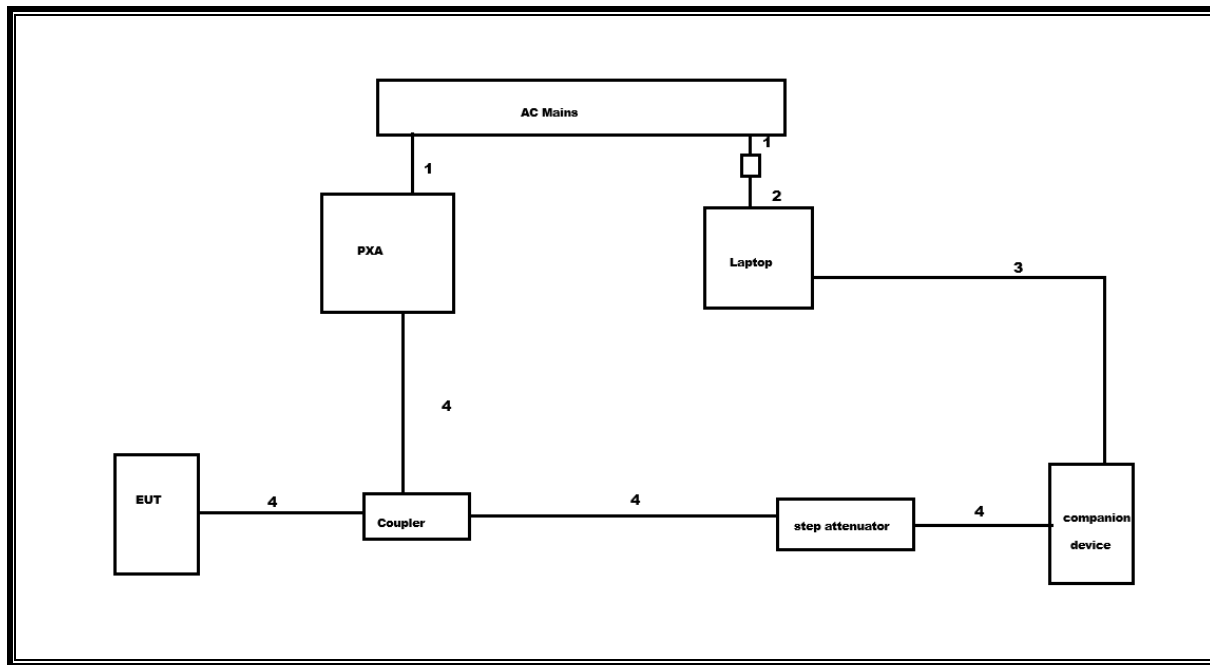
TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

Note, For TPC test, companion device is same device type and model as the EUT and is used to establish a peer-to-peer link.

SETUP DIAGRAM FOR CONDUCTED TESTS**SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz**

SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST**TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**

SETUP DIAGRAM FOR TPC TEST

7. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80707	2027-08-31
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	RATS 1.0	171875	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	245268	2027-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222740	2027-09-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	RATS 1.0	171389	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201497	2027-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226672	2028-03-31
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231876	2027-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201497	2027-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226673	2028-03-31
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12 Port	231874	*2026-06-29
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2027-02-28
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	170014	2027-09-30
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	170016	2027-09-30
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	224489	*2026-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2027-02-28
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	230311	*2026-05-30
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	204045	2027-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2027-02-28
Antenna, Horn 18-26.5GHz	A.R.A	MWH-1826/B	81139	2027-10-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	Amplical	AMP18G26.5-60	220194	2027-10-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226078	2027-02-28
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	80397	2027-01-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	125179	2027-01-31
Conducted Switch Box	UL-FR1	CSB	245782	2026-10-31
Conducted Switch Box	UL-FR1	CSB	208281	2026-10-31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90715	2027-01-22
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	81319	2027-01-31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	81105	2027-10-31
Link File, RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	220193	2027-10-31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESCI 7	82297	2027-02-28
Transient Limiter / Attenuator	Tekbox	TBFL1	207996	2026-12-30
LISN	Fischer Custom Communications, Inc.	FCC-LISN-50/250-25-2-01-480V	175765	2027-01-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	Antenna Port	Ver 2022.8.16, 2024.2.23	
Conducted Software	UL	Station Tool	V2026.6.0	
Radiated Software	UL	UL EMC	Ver 9.5, Aug 25, 2025	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Aug 25, 2025	

TPC CONDUCTED TEST				
Description	Manufacturer	Model	ID Num	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80400	2027-01-31
Step Attenuator 70dB	HP	8495B	2406A01354	N/A
Directional Coupler	Pasternack Enterprises	PE2204-6	246270	2026-05-31

*Testing is completed before equipment expiration date.

8. MEASUREMENT METHOD

TEST ITEM	TEST METHOD
On Time and Duty Cycle	KDB 789033 D02, Section II - B
26 dB Emission BW	KDB 789033 D02, Section II - C.1
99% Occupied BW	KDB 789033 D02, Section II - D
Conducted Output Power	KDB 789033 D02, Section II - E.3.b
Power Spectral Density	KDB 789033 D02, Section II - F
Spurious emissions within 5.925-7.125 GHz Band (Emissions Mask)	KDB 987594 D02, EMC Measurement, Section II - J
Unwanted Emissions in Restricted Bands	KDB 789033 D02, Sections II - G.3, G.4, G.5, and G.6
Unwanted Emissions in Non-Restricted Bands	KDB 789033 D02, Sections II - G.3, G.4, and G.5
AC Power Line Conducted Emissions	ANSI C63.10, Section 6.2
Radiated Spurious Emissions Below 30MHz	ANSI C63.10, Section 6.4

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

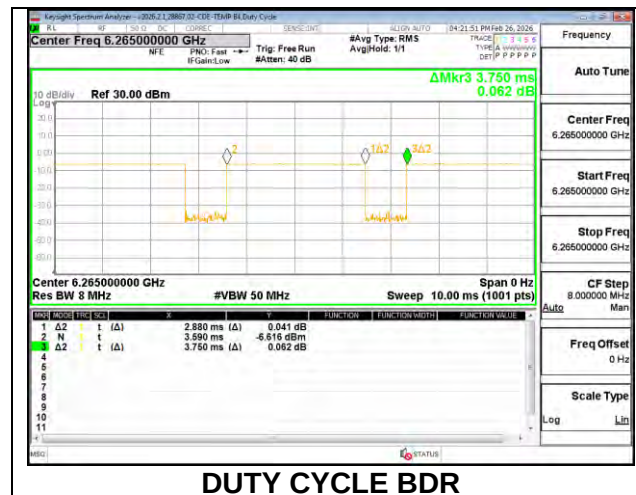
ANSI C63.10, Subclause 12.2.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
BDR	2.88	3.75	0.768	76.8	1.15	0.347
LE1M	2.12	2.50	0.848	84.8	0.72	0.472
LE2M	1.065	1.875	0.568	56.8	2.46	0.939
HDT2	2.136	2.224	0.960	96.0	0.18	0.468
HDT4	1.10	1.18	0.929	92.9	0.32	0.913
XHDRPS2	32.30	32.50	0.994	99.4	0.00	0.010
HDR4	2.78	3.75	0.741	74.1	1.30	0.360
HDRPM16	3.20	3.75	0.853	85.3	0.69	0.313
HDRPL8	3.56	3.75	0.949	94.9	0.23	0.281

Note: The same DCCF is used for both 1TX and 2TX

DUTY CYCLE PLOTS



9.2. 26 dB AND 99% BANDWIDTH

LIMITS

FCC §15.407

(a)(11) The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320 megahertz.

KDB 987594 D03 U-NII 6 GHz QA, modified by FCC TCB Workshop Presentation Review of TCB PAG Submissions - October 2023, allows the maximum bandwidths to be defined by either the 26dB bandwidth or the 99% bandwidth for a 320 MHz nominal channel bandwidth and by the 26dB bandwidth for all other nominal channel bandwidths. The KDB requires that the test report show the 99% and 26 dB bandwidth for all the nominal channel bandwidths used by the device.

RSS-248 4.4

The occupied bandwidth of an RLAN device shall not exceed 320 MHz.

PROCEDURE

ANSI C63.10

Worst-Case Mode	RBW (kHz)	VBW (kHz)
BDR	30	91
LE1M	30	91
LE2M	43	150
HDT2	43	150
HDT4	43	150
XHDRPS2	30	91
HDR4	30	91
HDRPM16	100	300
HDRPL8	200	620

RESULTS

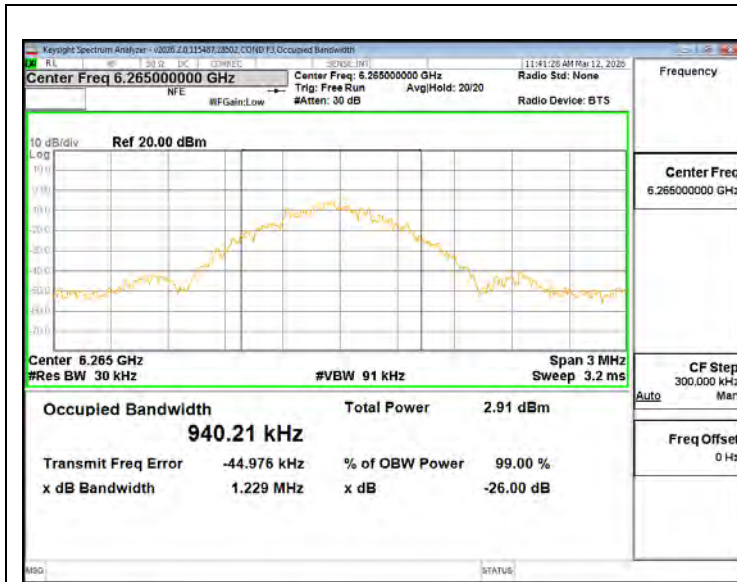
ID:	115487/28502	Date:	03-12-2026
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The plots in these sections are for reference settings only for different bandwidths and different antennas.

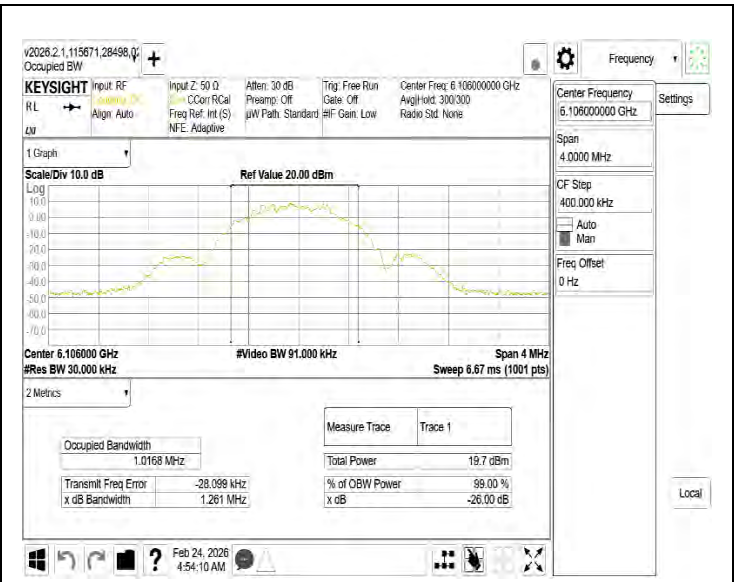
The tests performed on this device show that both 99% and 26dB bandwidths are less than 320 MHz. for all supported channel bandwidths.

9.2.1. UNII-5 BAND SISO MODE

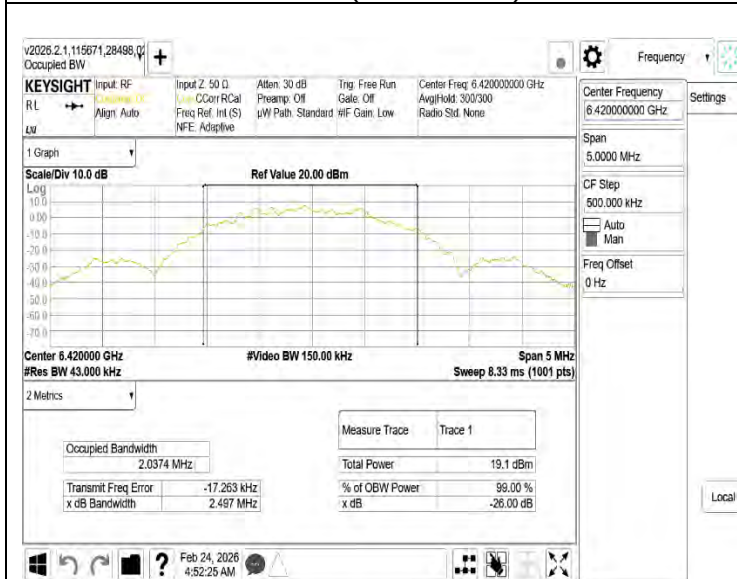
Worst-Case Mode (SISO)	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			Ant 6	Ant 5	Ant 6	Ant 5
BDR	6106	Low	1.224	1.246	0.94692	0.94213
	6265	Mid	1.229	1.235	0.94021	0.93421
	6420	High	1.209	1.256	0.92033	0.95119
LE1M	6106	Low	1.261	1.261	1.01680	1.01520
	6265	Mid	1.260	1.260	1.01530	1.01540
	6420	High	1.260	1.260	1.01700	1.01670
LE2M	6106	Low	2.496	2.498	2.0293	2.0368
	6265	Mid	2.496	2.495	2.0356	2.0375
	6420	High	2.497	2.495	2.0374	2.0379
HDT2	6106	Low	2.762	2.761	2.3767	2.3701
	6265	Mid	2.759	2.761	2.3794	2.3710
	6420	High	2.758	2.760	2.3732	2.3697
HDT4	6106	Low	2.821	2.827	2.3697	2.3782
	6265	Mid	2.819	2.822	2.3784	2.3698
	6420	High	2.818	2.820	2.3725	2.3729
XHDRPS2	6106	Low	2.768	2.785	2.3658	2.3887
	6265	Mid	2.782	2.704	2.3824	2.3789
	6420	High	2.778	2.765	2.3818	2.3717
HDR4	6106	Low	2.702	2.698	2.3501	2.3527
	6265	Mid	2.694	2.675	2.3427	2.3310
	6420	High	2.697	2.764	2.3370	2.3526
HDRPM16	6107	Low	5.346	5.302	4.7266	4.7252
	6265	Mid	5.353	5.370	4.7060	4.7008
	6420	High	5.339	5.408	4.6789	4.7108
HDRPL8	6109	Low	11.09	11.10	9.4107	9.4340
	6265	Mid	11.02	11.07	9.4788	9.4100
	6417	High	11.05	11.00	9.4216	9.3983

26dB & 99% BW PLOTS

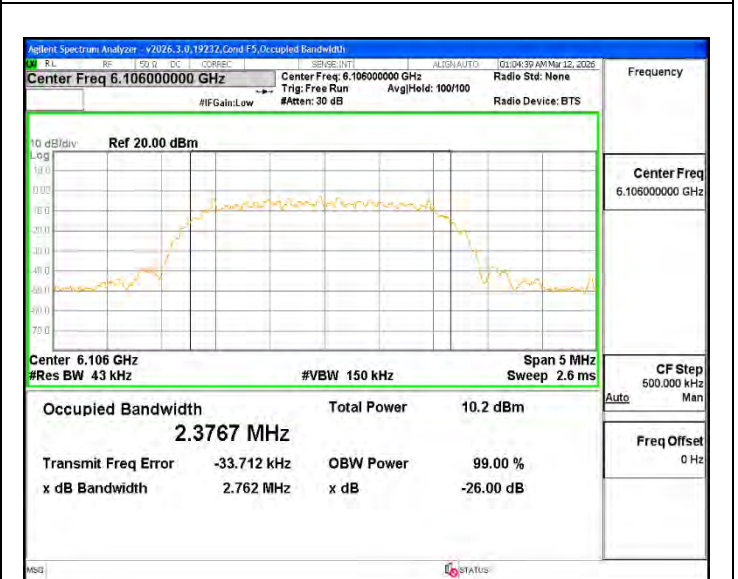
26dB BW - 6265MHz (UNII-5 BDR) SISO – Ant 6



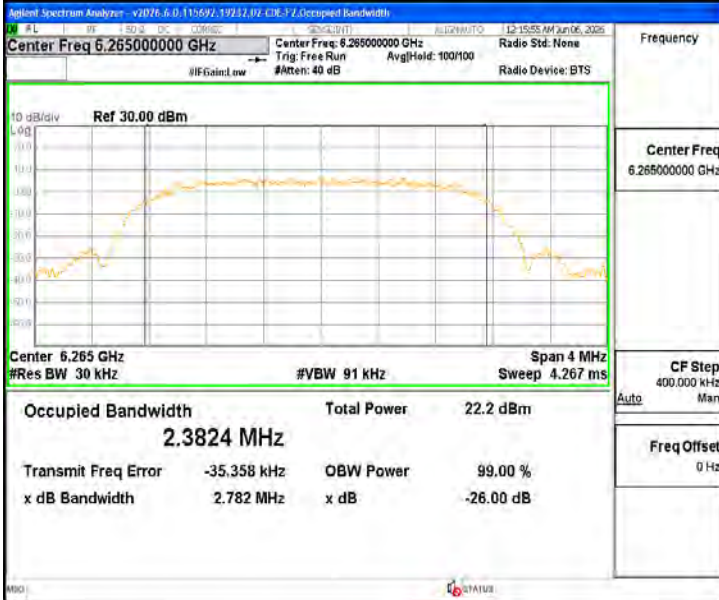
26dB BW - 6106MHz (UNII-5 LE1M) SISO – Ant 6



26dB BW - 6420MHz (UNII-5 LE2M) SISO – Ant 6



26dB BW - 6106MHz (UNII-5 HDT2) SISO – Ant 6



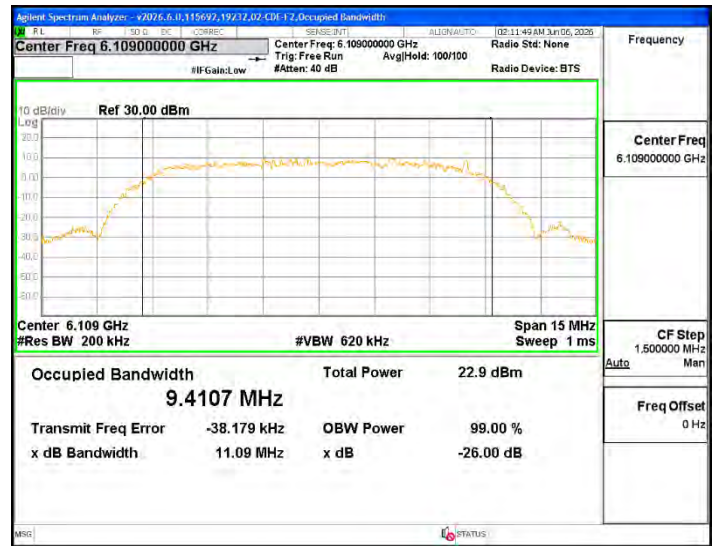
26dB BW - 6265MHz (UNII-5 XHDRPS2) SISO – Ant 6



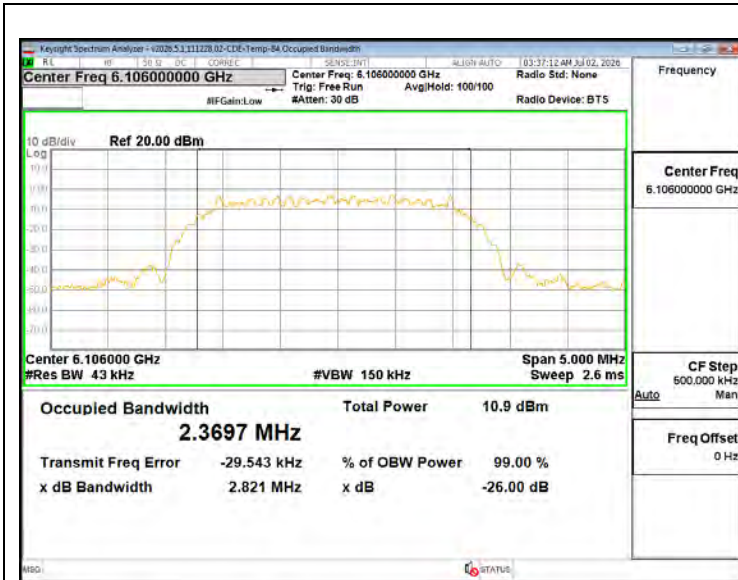
26dB BW - 6106MHz (UNII-5 HDR4) – SISO Ant 6



26dB BW - 6265MHz (UNII-5 HDRPM16) SISO – Ant 6



26dB BW - 6109MHz (UNII-5 HDRPL8) SISO – Ant 6



26dB BW - 6106MHz (UNII-5 HDT4) SISO – Ant 6

9.2.2. UNII-5 BAND MIMO TXBF MODE

Worst-Case Mode (TxBF)	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			Ant 6	Ant 5	Ant 6	Ant 5
BDR	6106	Low	1.204	1.231	0.92533	0.95693
	6265	Mid	1.261	1.231	0.94003	0.95053
	6420	High	1.257	1.238	0.94730	0.94645
LE1M	6106	Low	1.261	1.261	1.01700	1.01620
	6265	Mid	1.260	1.260	1.01600	1.01480
	6420	High	1.260	1.260	1.01480	1.01790
LE2M	6106	Low	2.497	2.499	2.0359	2.0394
	6265	Mid	2.496	2.494	2.0374	2.0365
	6420	High	2.497	2.497	2.0377	2.0390
HDT2	6106	Low	2.756	2.758	2.3721	2.3630
	6265	Mid	2.761	2.760	2.3760	2.3679
	6420	High	2.756	2.761	2.3690	2.3739
HDT4	6106	Low	2.814	2.823	2.3720	2.3675
	6265	Mid	2.818	2.817	2.3678	2.3731
	6420	High	2.818	2.819	2.3651	2.3819
XHDRPS2	6106	Low	2.757	2.778	2.3802	2.3748
	6265	Mid	2.786	2.800	2.3799	2.3964
	6420	High	2.763	2.660	2.3850	2.3661
HDR4	6106	Low	2.680	2.684	2.3472	2.3513
	6265	Mid	2.677	2.706	2.3384	2.3398
	6420	High	2.705	2.695	2.3648	2.3578
HDRPM16	6107	Low	5.339	5.333	4.6997	4.6967
	6265	Mid	5.366	5.367	4.6859	4.6853
	6420	High	5.494	5.367	4.7330	4.7043
HDRPL8	6109	Low	11.07	11.15	9.4735	9.4238
	6265	Mid	11.06	11.11	9.4512	9.4754
	6417	High	11.14	11.09	9.4615	9.4763

9.3. VLP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Bands: 5.925–6.425 GHz and 6.525–6.875 GHz

(9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed –5 dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14 dBm.

RSS 248 4.5.6

Power limits for very low-power devices

Both of the following limits shall apply to very low-power devices:

- a. the maximum e.i.r.p. spectral density shall not exceed –5 dBm/MHz
- b. the maximum e.i.r.p. shall not exceed 14 dBm

TEST PROCEDURE

Conducted Output Power: KDB 789033 D02, Section II E.3.b (Method PM-G). Gated power measurement is used to calculate EIRP. Power does not include any corrections for duty factor.

The measurement method used for power spectral density is KDB 789033 D02, Section F

RESULTS

DIRECTIONAL ANTENNA GAIN

The higher antenna gains were chosen between State A and State B.

For 1 TX:

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

For 2 TX:

BF MIMO Tx chains used correlated gain for power EIRP calculation and correlated gain for PSD EIRP calculation; For the straddle channels, the higher antenna gains were chosen between two bands where straddle channels are located. The directional gains are as follows:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
6105 - 6425 UNII-5	Sub-band 2 (6115 - 6255)	-1.90	1.80	-0.40	2.00
	Sub-band 3 (6275 - 6415)	-2.50	1.80	-0.40	2.10

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant 6 Power= -4.84 dBm

EIRP corr'd power = -4.84 + (-1.9) = -6.74 dBm

2Tx

EIRP corr'd power = $10 \cdot \log(10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)}) + \text{correlated directional gain}$

Sample Calculation at UNII-5 Band:

Ant 6 Power= -12.79 dBm, Ant 5 Power= -12.82 dBm

EIRP corr'd power = $10 \cdot \log(10^{(-12.79/10)} + 10^{(-12.82/10)}) + (2.0) = -7.79 \text{ dBm}$

EIRP PSD Calculation:**1Tx**

EIRP corr'd PSD = DCCF + Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant 6 PSD= -5.027 dBm/1MHz

EIRP corr'd PSD = 1.15 + (-5.027) + (-1.9) = -5.777 dBm/1MHz

2Tx (OFDMA)

EIRP corr'd PSD = $(10 \cdot \log(10^{((\text{DCCF} + \text{Ant6})/10)} + 10^{((\text{DCCF} + \text{Ant5})/10)})) + \text{correlated directional gain}$

Sample Calculation at UNII-5 Band:

Ant 6 PSD= -13.003 dBm/1MHz, Ant 5 PSD= -13.411 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \log(10^{((1.15 + (-13.003))/10)} + 10^{((1.15 + (-13.411))/10)})) + (2.0) = -7.042 \text{ dBm/1MHz}$

9.3.1. UNII-5 BAND SISO MODE

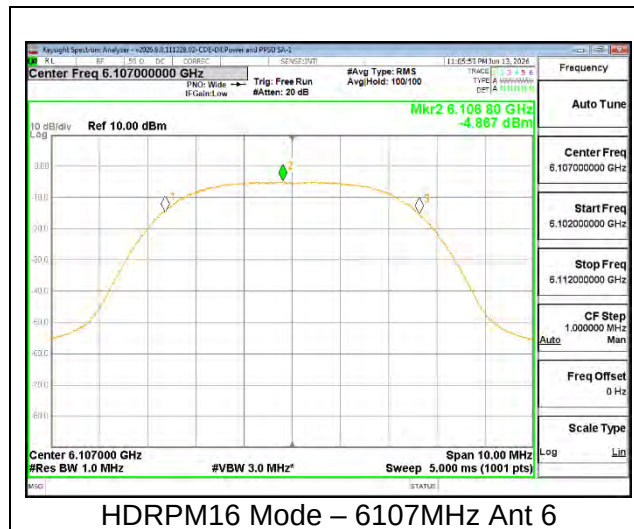
UNII-5 (SISO) (6105 - 6425MHz)	Low	Mid	High
Ant 6 (dBi)	-1.90	-1.90	-2.50
Ant 5 (dBi)	1.80	1.80	1.80

UNII-5 (SISO)	Power Config.	Freq (MHz)	Ch. #	Duty Cycle (dB)	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 14dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -5dBm/MHz EIRP)	
					Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5
BDR	High	6106	Low	1.15	-4.84	-8.51	-6.74	-6.71	-5.027	-9.253	-5.777	-6.303
		6265	Mid		-4.81	-8.59	-6.71	-6.79	-5.000	-9.103	-5.750	-6.153
		6420	High		-4.77	-8.58	-7.27	-6.78	-5.116	-9.219	-6.466	-6.269
	Low	6106	Low		-4.76	-8.63	-6.66	-6.83	-5.096	-9.039	-5.846	-6.089
		6265	Mid		-4.79	-8.61	-6.69	-6.81	-5.037	-9.053	-5.787	-6.103
		6420	High		-4.80	-8.57	-7.30	-6.77	-5.360	-9.037	-6.710	-6.087
LE1M	High	6106	Low	0.72	-4.02	-7.89	-5.92	-6.09	-5.258	-8.787	-6.438	-6.267
		6265	Mid		-4.09	-7.81	-5.99	-6.01	-5.314	-8.549	-6.494	-6.029
		6420	High		-4.12	-7.85	-6.62	-6.05	-5.580	-8.752	-7.360	-6.232
	Low	6106	Low		-4.03	-7.79	-5.93	-5.99	-5.568	-8.868	-6.748	-6.348
		6265	Mid		-4.09	-7.81	-5.99	-6.01	-5.158	-8.648	-6.338	-6.128
		6420	High		-4.11	-7.88	-6.61	-6.08	-5.118	-8.739	-6.898	-6.219
LE2M	High	6106	Low	2.46	-3.52	-7.29	-5.42	-5.49	-6.927	-10.676	-6.367	-6.416
		6265	Mid		-3.58	-7.26	-5.48	-5.46	-6.706	-10.575	-6.146	-6.315
		6420	High		-3.55	-7.31	-6.05	-5.51	-6.866	-10.425	-6.906	-6.165
	Low	6106	Low		-3.52	-7.31	-5.42	-5.51	-7.052	-10.350	-6.492	-6.090
		6265	Mid		-3.55	-7.35	-5.45	-5.55	-6.984	-10.603	-6.424	-6.343
		6420	High		-3.61	-7.26	-6.11	-5.46	-6.761	-10.637	-6.801	-6.377
HDT2	High	6106	Low	0.18	-2.09	-5.59	-3.99	-3.79	-5.327	-8.732	-7.047	-6.752
		6265	Mid		-2.14	-5.54	-4.04	-3.74	-5.511	-8.909	-7.231	-6.929
		6420	High		-2.03	-5.60	-4.53	-3.80	-5.631	-9.084	-7.951	-7.104
	Low	6106	Low		-2.09	-5.55	-3.99	-3.75	-5.308	-8.976	-7.028	-6.996
		6265	Mid		-2.14	-5.51	-4.04	-3.71	-5.277	-8.937	-6.997	-6.957
		6420	High		-2.04	-5.60	-4.54	-3.80	-5.365	-8.915	-7.685	-6.935
HDT4	High	6106	Low	0.32	-1.81	-5.59	-3.71	-3.79	-4.830	-8.014	-6.550	-6.034
		6265	Mid		-1.77	-5.64	-3.67	-3.84	-4.458	-8.180	-6.178	-6.200
		6420	High		-1.84	-5.61	-4.34	-3.81	-4.349	-8.140	-6.669	-6.160
	Low	6106	Low		-1.78	-5.56	-3.68	-3.76	-4.566	-8.468	-6.286	-6.488
		6265	Mid		-1.76	-5.61	-3.66	-3.81	-4.373	-8.056	-6.093	-6.076
		6420	High		-1.83	-5.60	-4.33	-3.80	-4.657	-8.400	-6.977	-6.420
XHDRPS2	High	6106	Low	0.00	-2.79	-6.55	-4.69	-4.75	-5.221	-8.738	-7.121	-6.938
		6265	Mid		-2.81	-6.51	-4.71	-4.71	-5.091	-8.801	-6.991	-7.001
		6420	High		-2.84	-6.57	-5.34	-4.77	-5.221	-8.790	-7.721	-6.990
	Low	6106	Low		-2.81	-6.55	-4.71	-4.75	-5.547	-9.033	-7.447	-7.233
		6265	Mid		-2.79	-6.64	-4.69	-4.84	-5.264	-9.042	-7.164	-7.242
		6420	High		-2.76	-6.59	-5.26	-4.79	-5.066	-9.177	-7.566	-7.377
HDR4	High	6107	Low	1.30	-2.29	-6.13	-4.19	-4.33	-5.731	-9.643	-6.331	-6.543
		6265	Mid		-2.26	-6.09	-4.16	-4.29	-5.275	-9.585	-5.875	-6.485
		6420	High		-2.33	-6.07	-4.83	-4.27	-5.643	-9.696	-6.843	-6.596
	Low	6107	Low		-2.30	-6.03	-4.20	-4.23	-5.395	-9.595	-5.995	-6.495
		6265	Mid		-2.33	-6.09	-4.23	-4.29	-5.875	-9.531	-6.475	-6.431
		6420	High		-2.34	-6.11	-4.84	-4.31	-5.736	-9.850	-6.936	-6.750
HDRPM16	High	6107	Low	0.69	0.47	-3.29	-1.43	-1.49	-4.867	-9.413	-5.467	-6.923
		6265	Mid		0.41	-3.31	-1.49	-1.51	-5.306	-9.520	-5.906	-7.030
		6420	High		0.37	-3.35	-2.13	-1.55	-5.050	-9.315	-6.250	-6.825
	Low	6107	Low		0.48	-3.28	-1.42	-1.48	-5.108	-9.502	-5.708	-7.012
		6265	Mid		0.41	-3.30	-1.49	-1.50	-4.969	-9.481	-5.569	-6.991
		6420	High		0.40	-3.34	-2.10	-1.54	-4.832	-9.413	-6.032	-6.923
HDRPL8	High	6109	Low	0.23	3.47	-0.29	1.57	1.51	-4.618	-8.477	-6.288	-6.447
		6265	Mid		3.41	-0.26	1.51	1.54	-4.500	-8.173	-6.170	-6.143
		6417	High		3.40	-0.33	0.90	1.47	-4.397	-7.980	-6.667	-5.950
	Low	6109	Low		3.39	-0.33	1.49	1.47	-4.493	-8.106	-6.163	-6.076
		6265	Mid		3.36	-0.29	1.46	1.51	-4.534	-8.344	-6.204	-6.314
		6417	High		3.45	-0.30	0.95	1.50	-4.426	-8.027	-6.696	-5.997

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm) + Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)

Worst-Case EIRP PSD Plot:

9.3.2. UNII-5 BAND MIMO TXBF MODE

UNII-5 (MIMO BF) (6105 - 6425MHz)	Low CH	Mid CH	High CH
Un-Correlated Gain (dBi)	-0.40	-0.40	-0.40
Correlated Gain (dBi)	2.00	2.00	2.10

UNII-5 (MIMO BF)	Power Config.	Freq (MHz)	Ch. #	Duty Cycle (dB)	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 14dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -5dBm/MHz EIRP)
					Ant 6	Ant 5		Ant 6	Ant 5	
BDR	High	6106	Low	1.15	-12.79	-12.82	-7.79	-13.003	-13.411	-7.042
		6265	Mid		-12.81	-12.88	-7.83	-12.990	-13.305	-6.984
		6420	High		-12.89	-12.85	-7.76	-13.395	-13.140	-7.005
	Low	6106	Low		-12.85	-12.87	-7.85	-12.980	-13.111	-6.885
		6265	Mid		-12.78	-12.78	-7.77	-13.027	-13.448	-7.072
		6420	High		-12.83	-12.80	-7.70	-12.993	-13.436	-6.949
LE1M	High	6106	Low	0.72	-12.28	-12.30	-7.28	-12.782	-12.961	-7.140
		6265	Mid		-12.26	-12.34	-7.29	-12.525	-12.670	-6.867
		6420	High		-12.31	-12.33	-7.21	-12.914	-12.707	-6.979
	Low	6106	Low		-12.29	-12.26	-7.26	-12.792	-12.822	-7.077
		6265	Mid		-12.30	-12.29	-7.28	-12.586	-12.691	-6.908
		6420	High		-12.34	-12.33	-7.22	-12.667	-12.849	-6.927
LE2M	High	6106	Low	2.46	-11.79	-11.76	-6.76	-14.844	-15.147	-7.523
		6265	Mid		-11.81	-11.80	-6.79	-14.976	-15.019	-7.527
		6420	High		-11.76	-11.81	-6.67	-14.974	-15.193	-7.512
	Low	6106	Low		-11.79	-11.80	-6.78	-14.858	-15.089	-7.502
		6265	Mid		-11.87	-11.83	-6.84	-14.882	-14.837	-7.389
		6420	High		-11.82	-11.77	-6.68	-14.915	-14.979	-7.377
HDT2	High	6106	Low	0.18	-10.03	-10.11	-5.06	-13.304	-13.271	-8.097
		6265	Mid		-10.09	-10.05	-5.06	-13.752	-13.383	-8.373
		6420	High		-10.10	-10.06	-4.97	-13.789	-13.676	-8.442
	Low	6106	Low		-10.09	-10.01	-5.04	-13.339	-13.340	-8.149
		6265	Mid		-10.11	-10.07	-5.08	-13.535	-13.587	-8.371
		6420	High		-10.06	-10.08	-4.96	-13.571	-13.576	-8.283
HDT4	High	6106	Low	0.32	-10.02	-10.09	-5.04	-12.903	-13.099	-7.810
		6265	Mid		-10.12	-10.14	-5.12	-13.090	-13.248	-7.978
		6420	High		-10.10	-10.07	-4.97	-13.130	-13.036	-7.792
	Low	6106	Low		-10.13	-10.11	-5.11	-12.888	-12.839	-7.673
		6265	Mid		-10.09	-10.05	-5.06	-13.038	-13.073	-7.865
		6420	High		-10.04	-10.03	-4.92	-12.906	-12.999	-7.662
XHDRPS2	High	6106	Low	0.00	-10.79	-10.81	-5.79	-13.402	-13.394	-8.388
		6265	Mid		-10.86	-10.89	-5.86	-13.148	-13.225	-8.176
		6420	High		-10.83	-10.79	-5.70	-12.997	-13.303	-8.037
	Low	6106	Low		-10.82	-10.80	-5.80	-13.475	-13.232	-8.342
		6265	Mid		-10.76	-10.81	-5.77	-13.023	-13.186	-8.093
		6420	High		-10.84	-10.77	-5.69	-13.185	-13.369	-8.166
HDR4	High	6107	Low	1.30	-10.29	-10.31	-5.29	-13.669	-13.938	-7.491
		6265	Mid		-10.26	-10.30	-5.27	-13.720	-13.982	-7.539
		6420	High		-10.33	-10.38	-5.24	-13.653	-13.741	-7.286
	Low	6107	Low		-10.39	-10.32	-5.34	-14.055	-13.637	-7.531
		6265	Mid		-10.33	-10.27	-5.29	-14.043	-13.830	-7.625
		6420	High		-10.35	-10.29	-5.21	-13.943	-13.720	-7.420
HDRPM16	High	6107	Low	0.69	-7.51	-7.64	-2.56	-13.203	-13.032	-7.416
		6265	Mid		-7.56	-7.61	-2.57	-13.335	-13.352	-7.643
		6420	High		-7.57	-7.58	-2.46	-13.376	-13.164	-7.468
	Low	6107	Low		-7.55	-7.51	-2.52	-13.126	-13.376	-7.549
		6265	Mid		-7.60	-7.59	-2.58	-13.286	-13.904	-7.884
		6420	High		-7.61	-7.57	-2.48	-13.248	-12.990	-7.317
HDRPL8	High	6109	Low	0.23	-4.55	-4.57	0.45	-12.862	-12.624	-7.501
		6265	Mid		-4.58	-4.61	0.42	-12.532	-12.567	-7.309
		6417	High		-4.60	-4.64	0.49	-12.548	-12.742	-7.304
	Low	6109	Low		-4.51	-4.62	0.45	-12.528	-12.752	-7.398
		6265	Mid		-4.49	-4.64	0.45	-12.581	-12.511	-7.306
		6417	High		-4.55	-4.54	0.57	-12.757	-12.699	-7.388

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 1 + Ant 2) + Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 1 + Ant 2) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.4. VLP SPURIOUS EMISSIONS IN-BAND– EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

RSS-248 4.6.2

b. the e.i.r.p. spectral density of unwanted emissions falling into the 5925-7125 MHz frequency band shall be attenuated below the reference power spectral density by:

- i. 20 dB at 1 MHz away from the channel edges
- ii. a value, linearly interpolated in a dB scale, between 20 dB and 28 dB at frequencies between 1 MHz outside of channel edges and 1 channel bandwidth away from the operating channel centre, respectively
- iii. 28 dB at 1 channel bandwidth away from the operating channel centre
- iv. a value, linearly interpolated in a dB scale, between 28 dB and 40 dB at frequencies between 1 channel bandwidth away from the operating channel centre and 1.5 times the channel bandwidth away from the operating channel centre, respectively
- v. 40 dB at one- and one-half (1.5) times the channel bandwidth away from the channel centre; and
- vi. a minimum of 40 dB at frequencies that are further away than one and one-half (1.5) times the channel bandwidth from the channel centre.

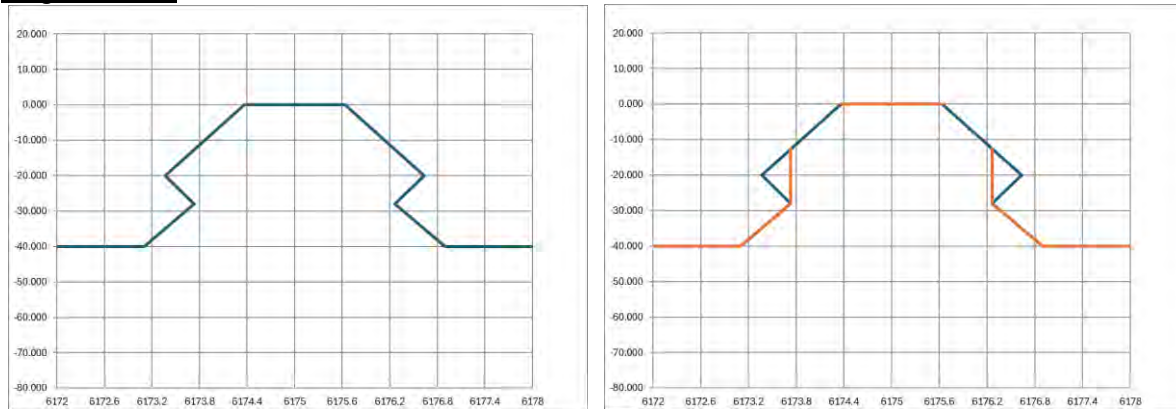
TEST PROCEDURE

Follow KDB 987594 D02, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings.

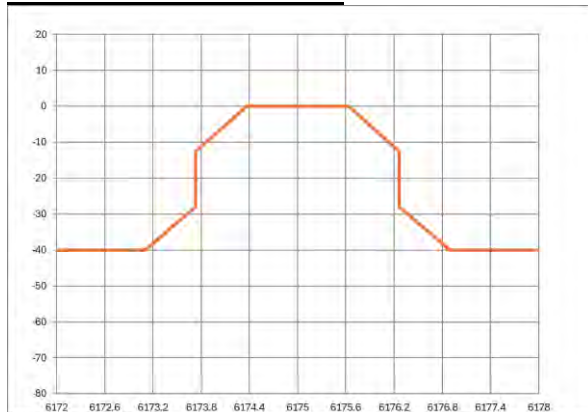
Worst-Case Mode	RBW (kHz)	VBW (kHz)
BDR	30	91
LE1M	30	91
LE2M	43	150
HDT2	43	150
HDT4	43	150
XHDRPS2	30	91
HDR4	30	91
HDRPM16	100	300
HDRPL8	200	620

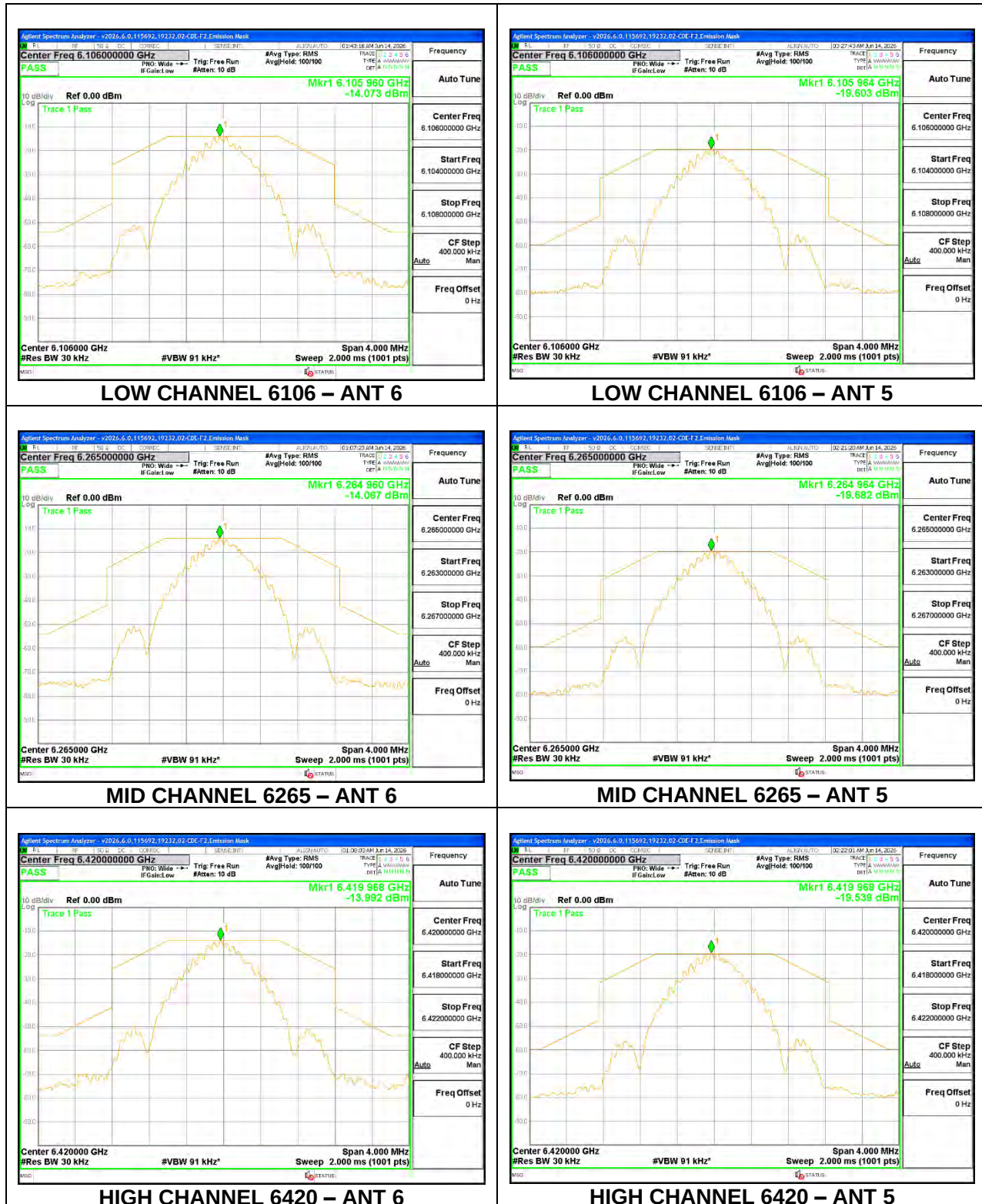
For the emission mask of EBW < 2MHz, we have created and used real limits (using the FCC formula) and removed the 'bulge', as shown in the images below.

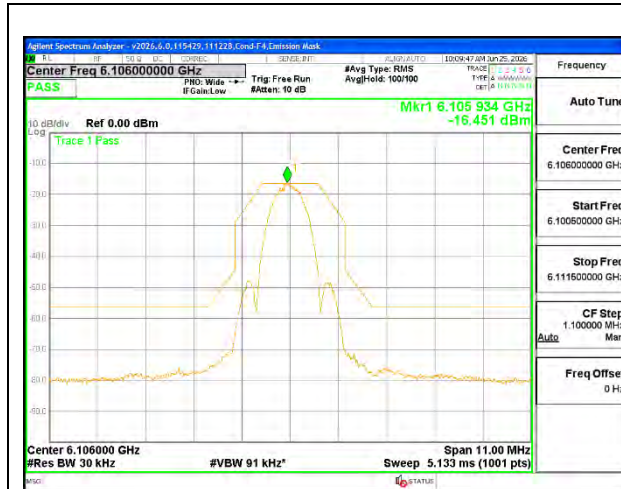
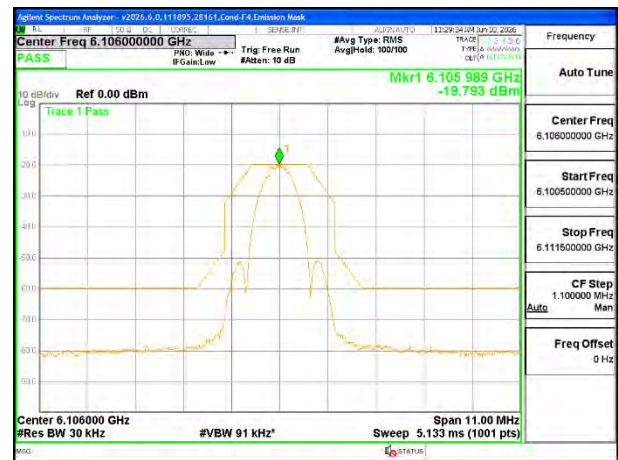
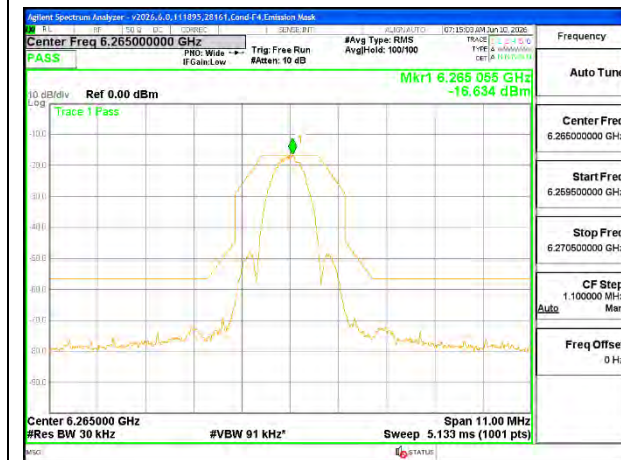
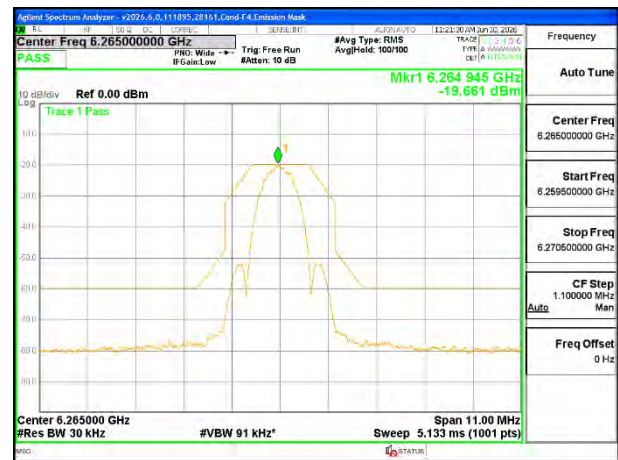
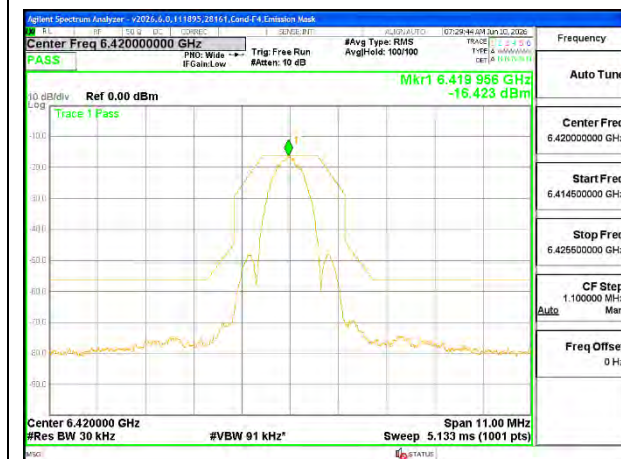
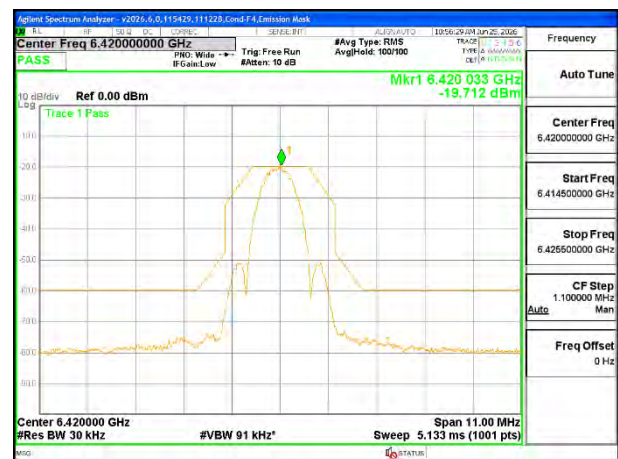
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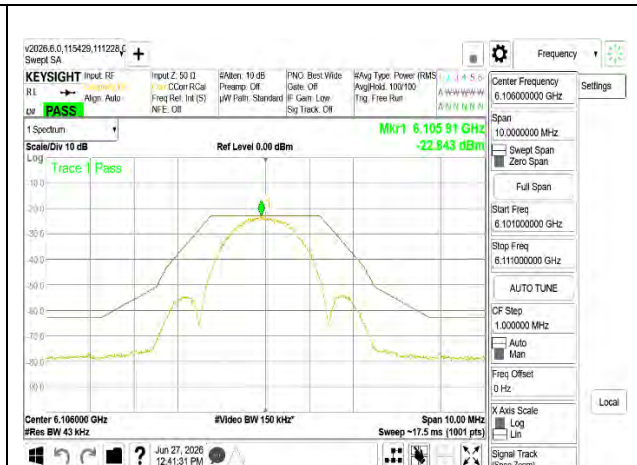
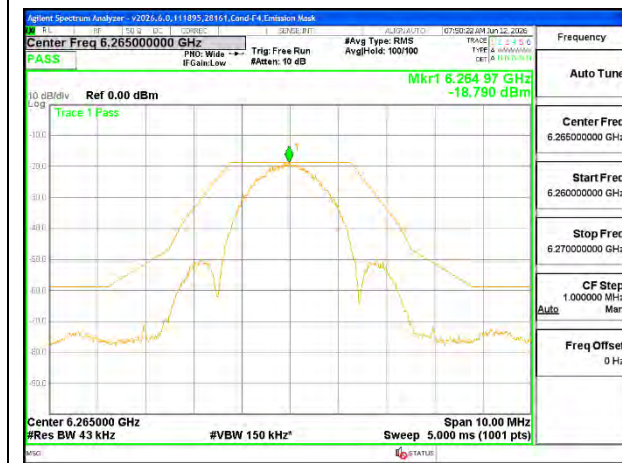
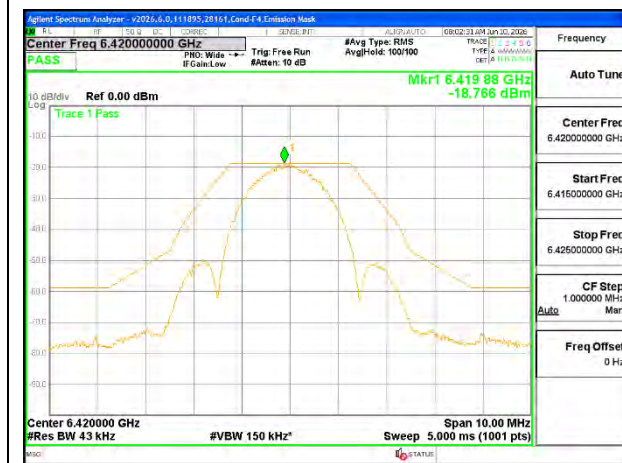


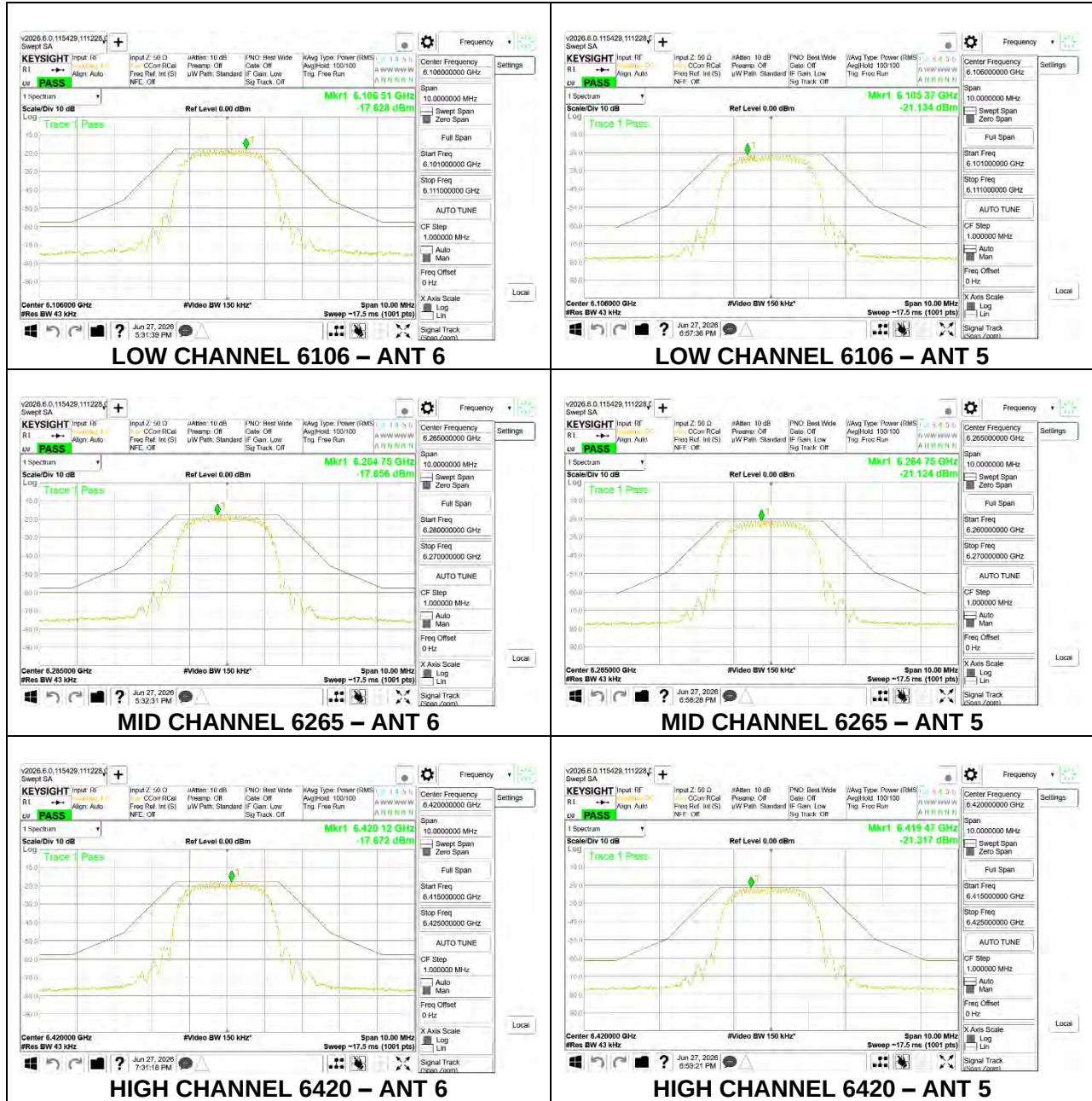
Final Mask for submission:

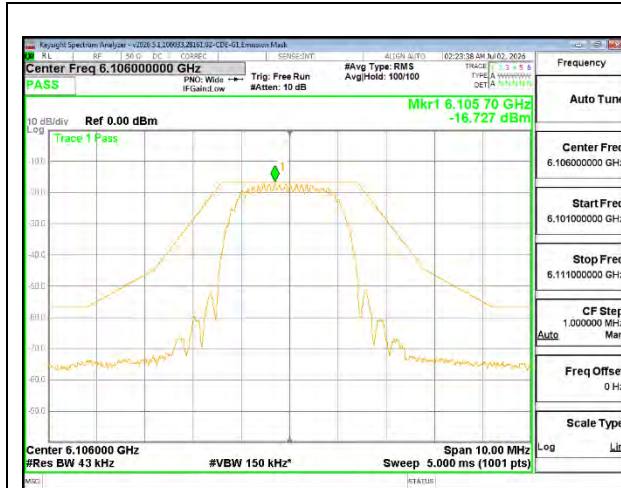
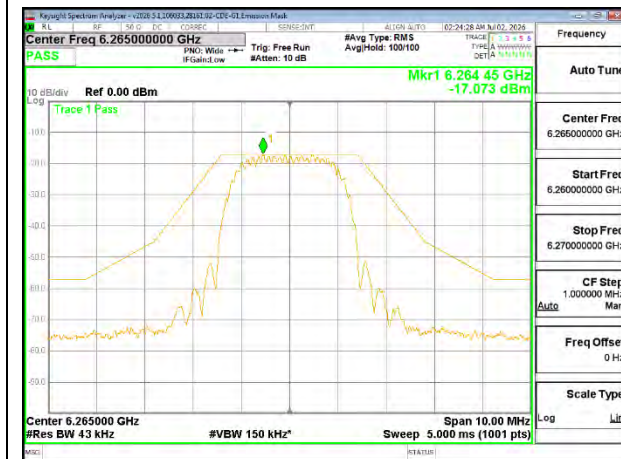
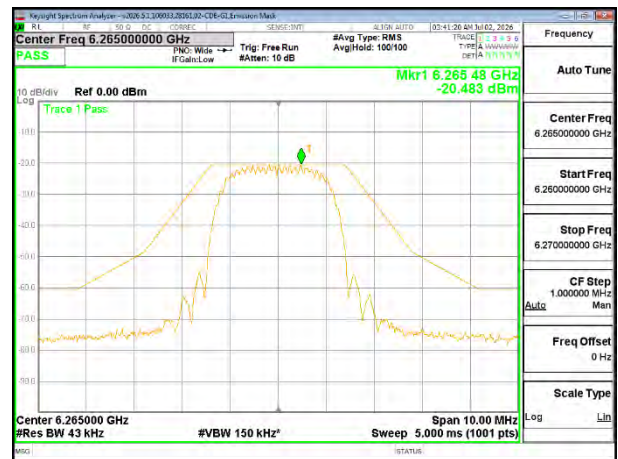
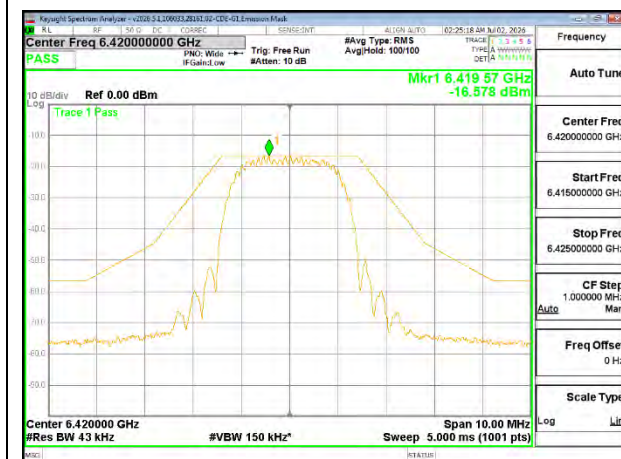
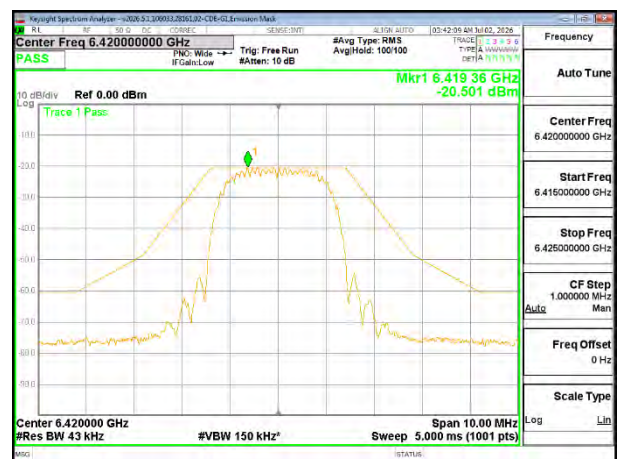


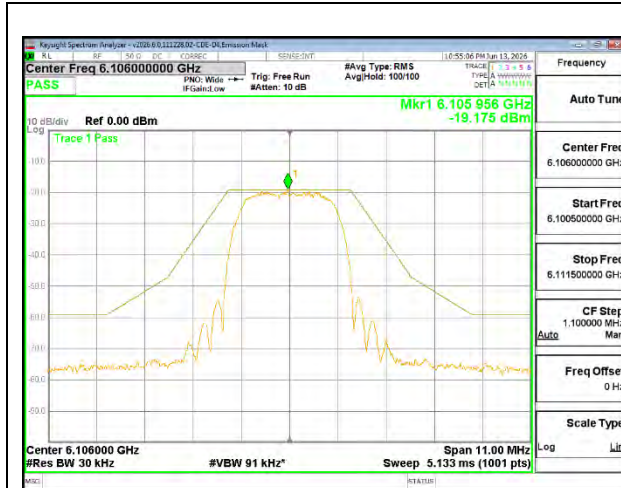
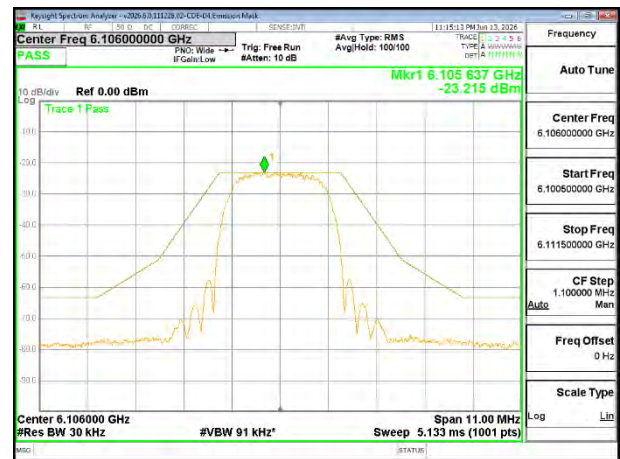
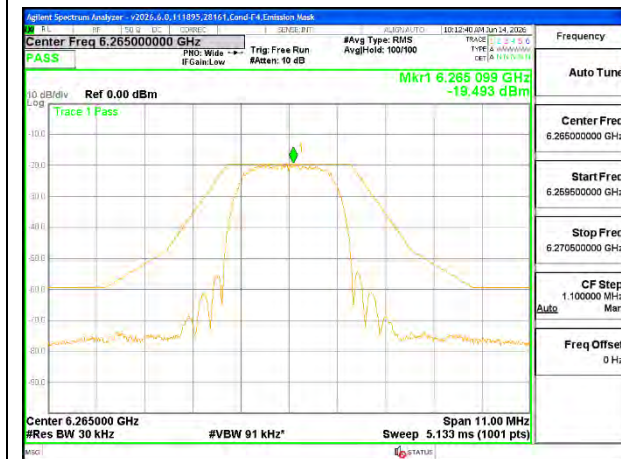
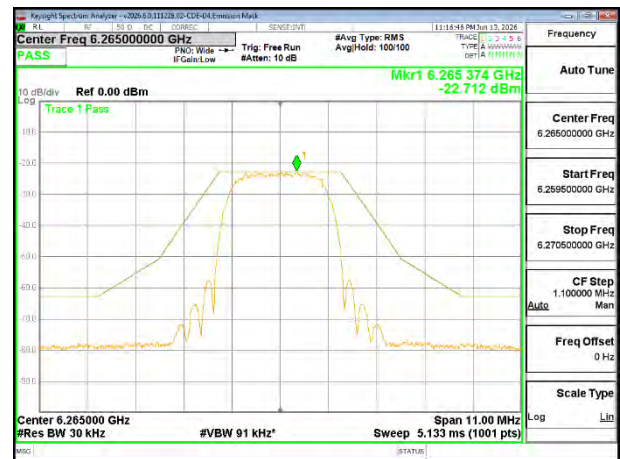
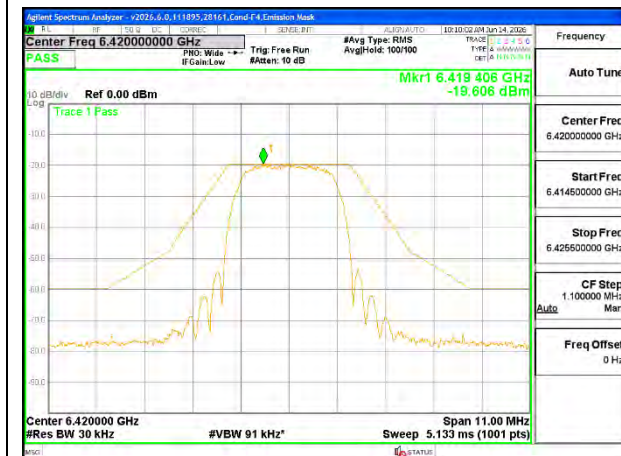
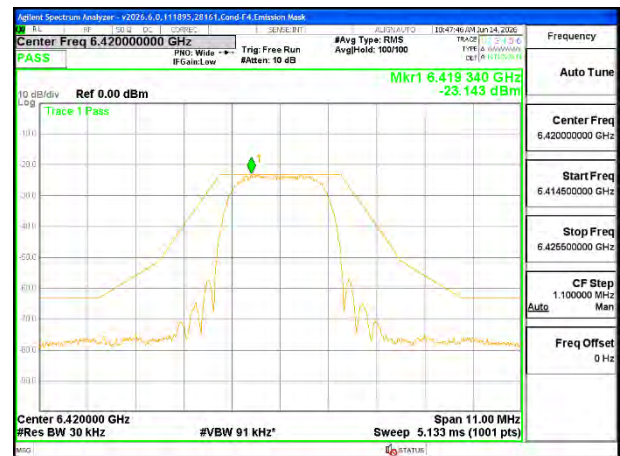
RESULTS**9.4.1. HIGH POWER UNII-5 BAND SISO MODE****BDR**

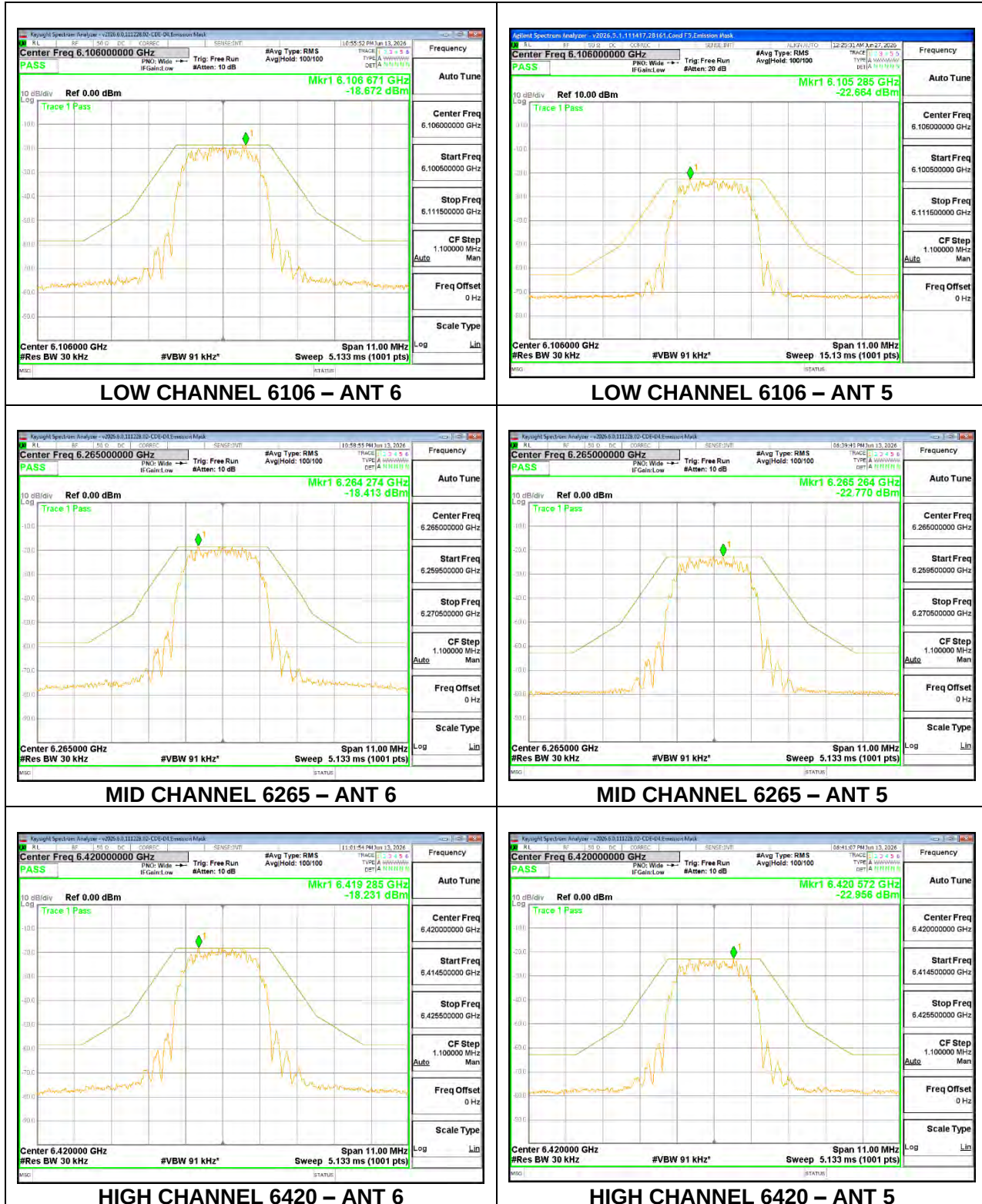
LE1M**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

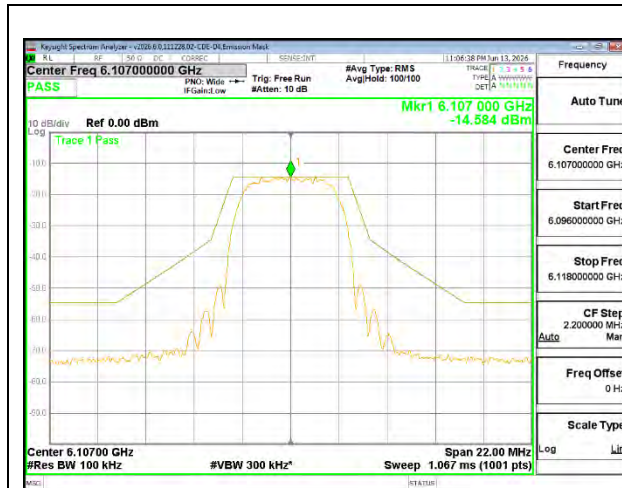
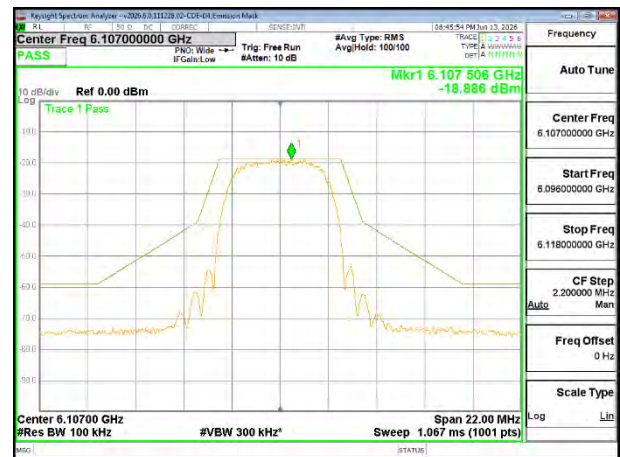
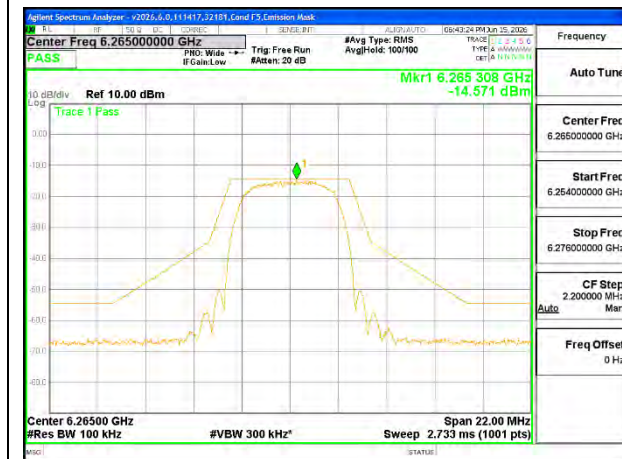
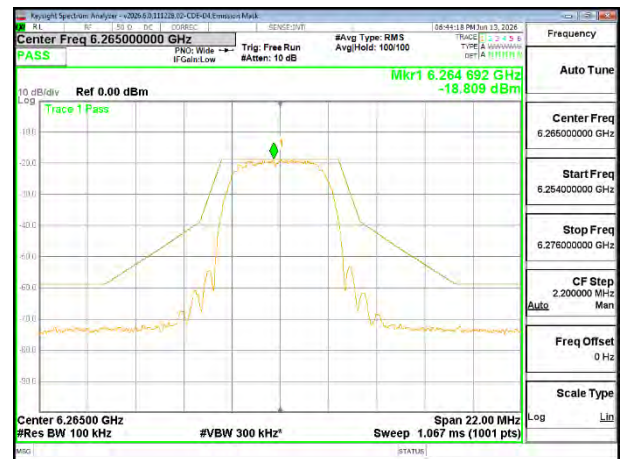
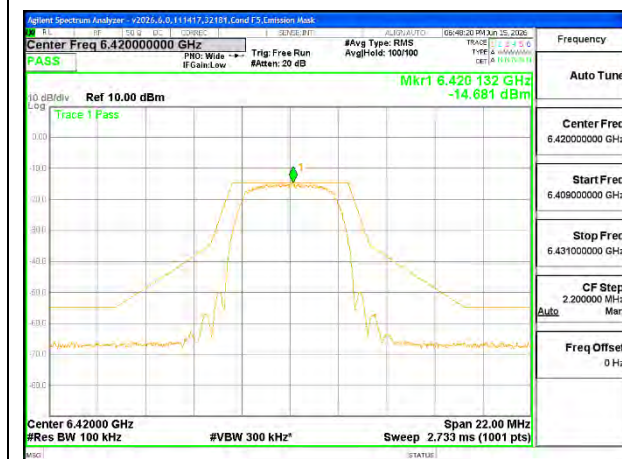
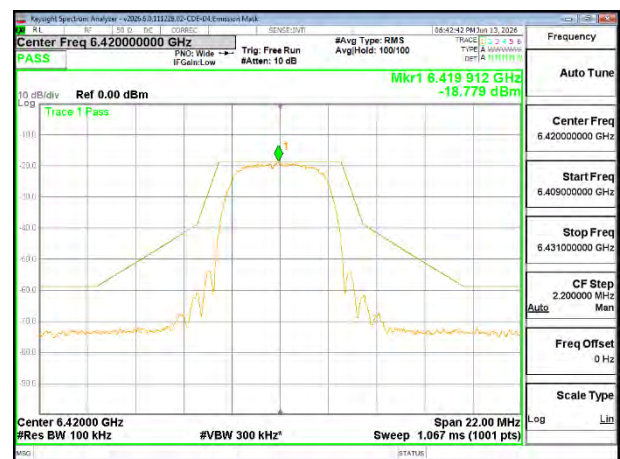
LE2M**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

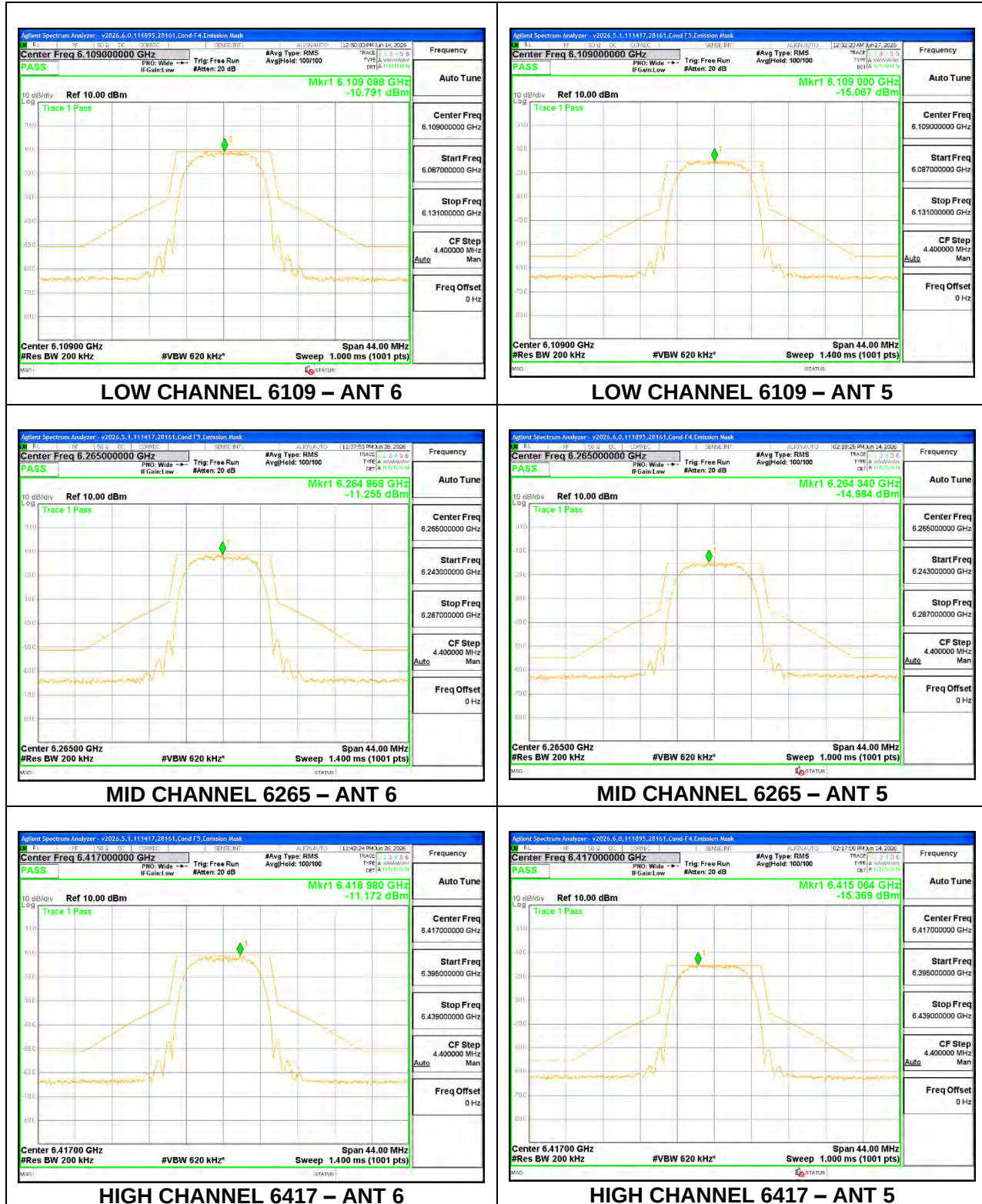
HDT2

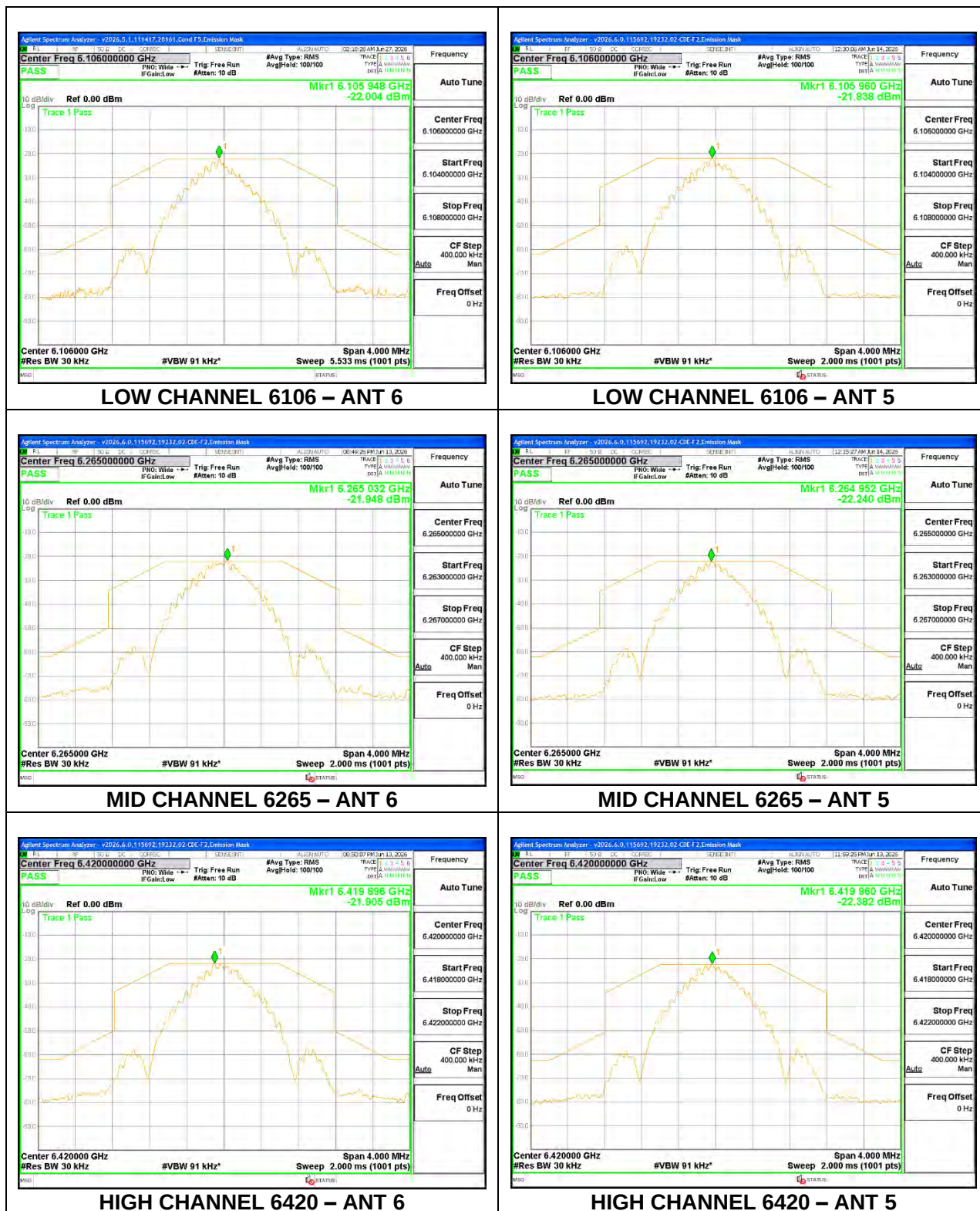
HDT4**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

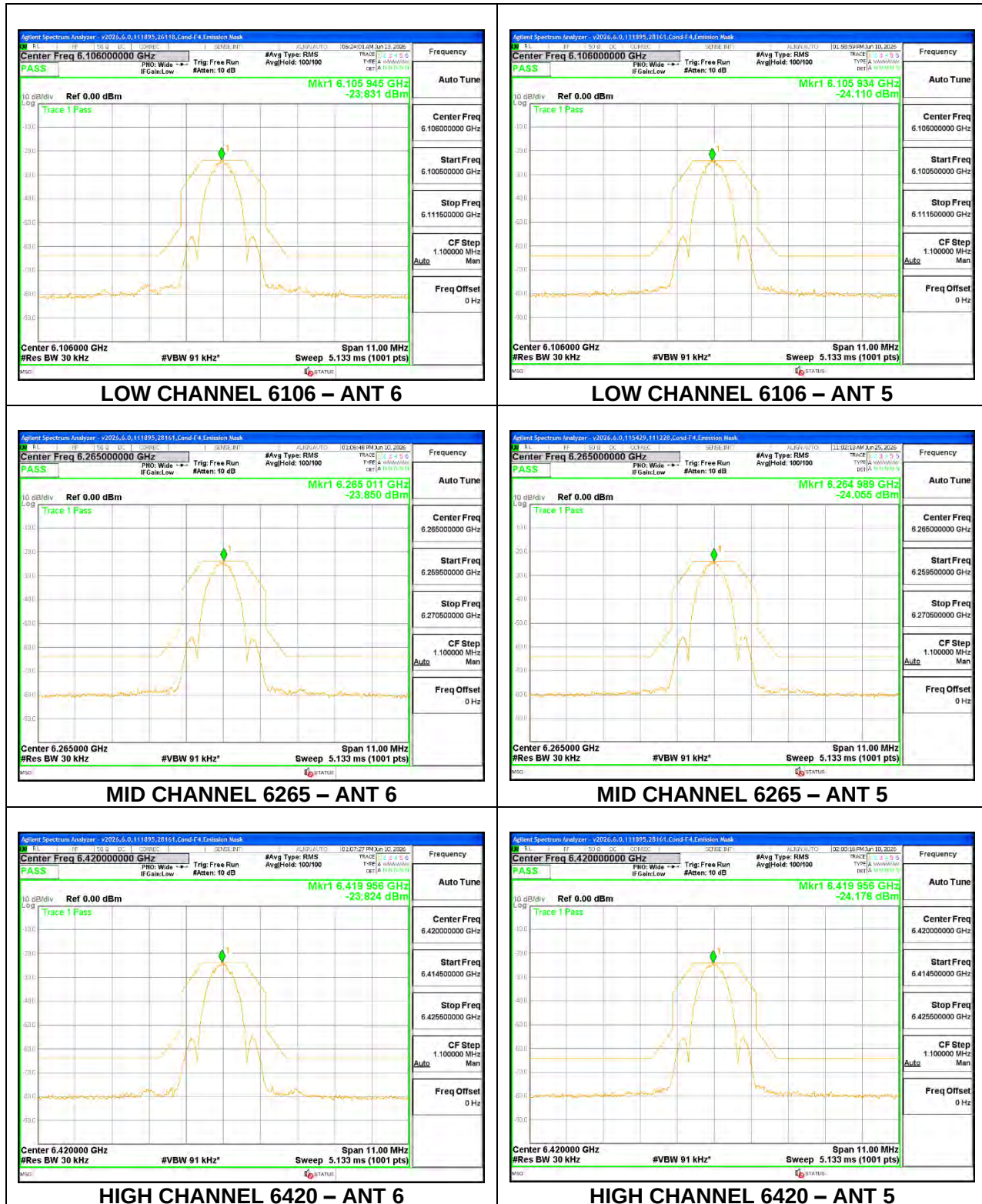
XHDRPS2**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

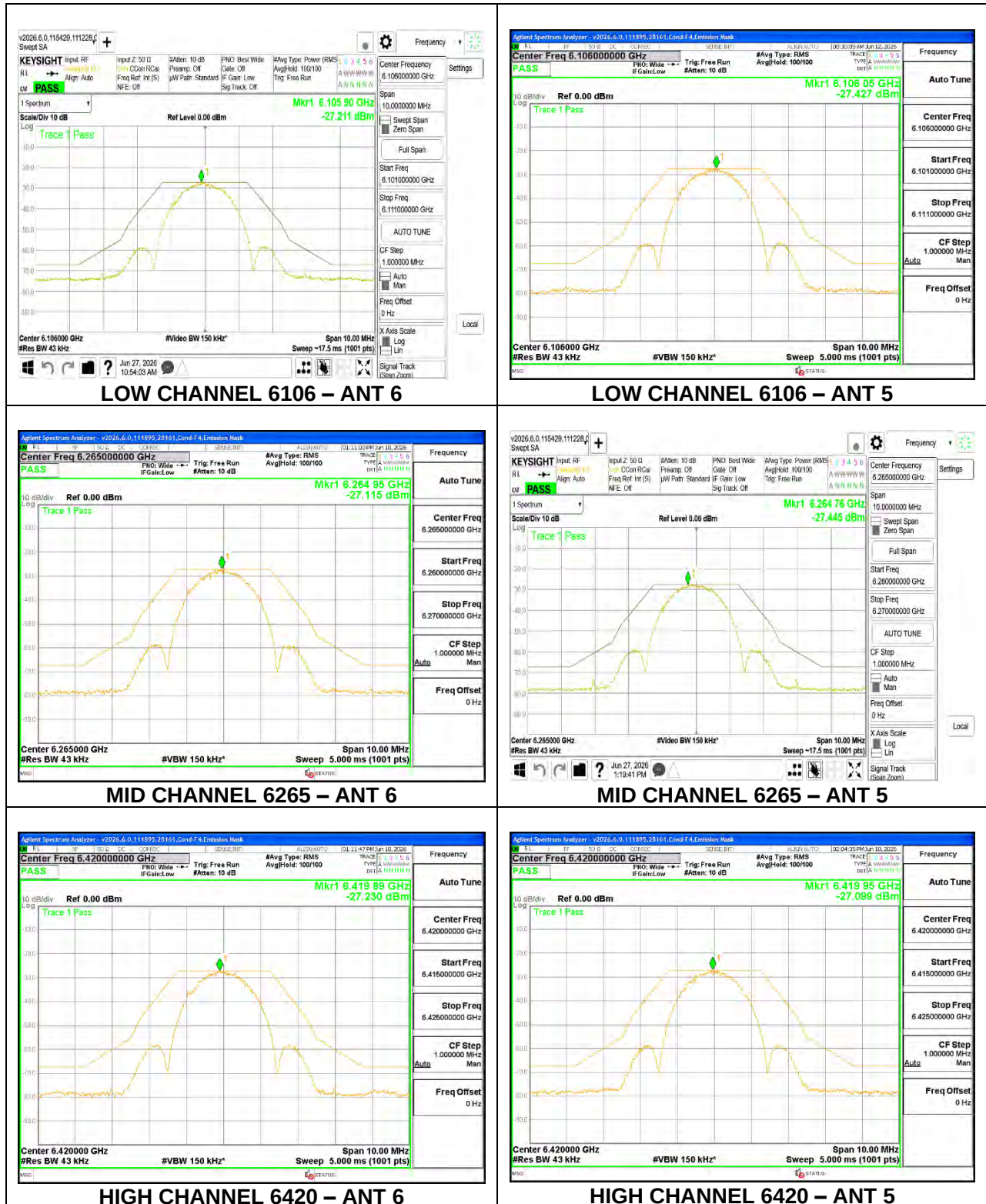
HDR4

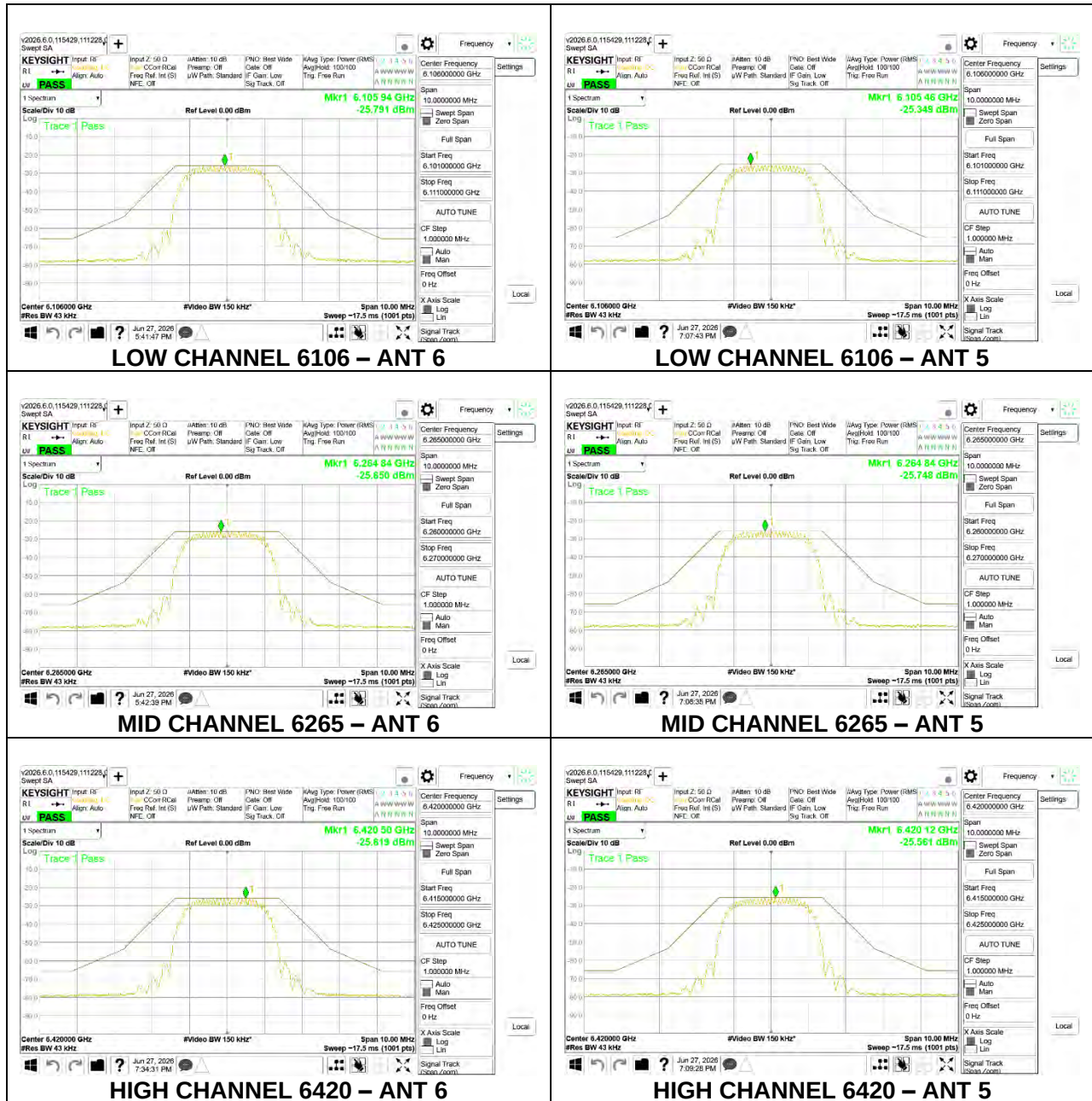
HDRPM16**LOW CHANNEL 6107 – ANT 6****LOW CHANNEL 6107 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

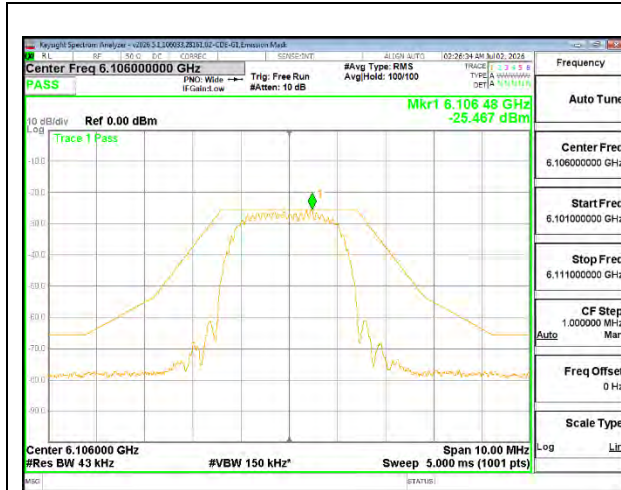
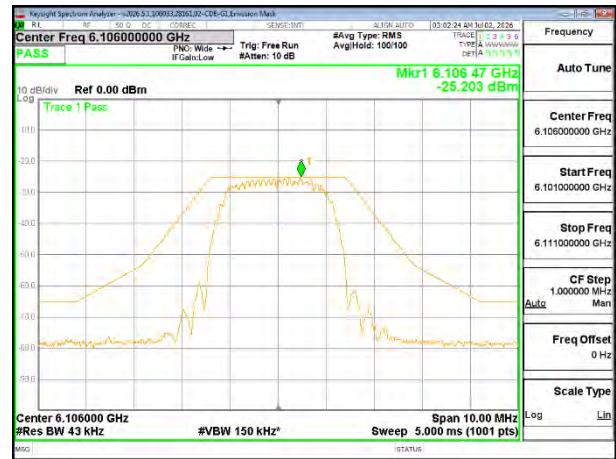
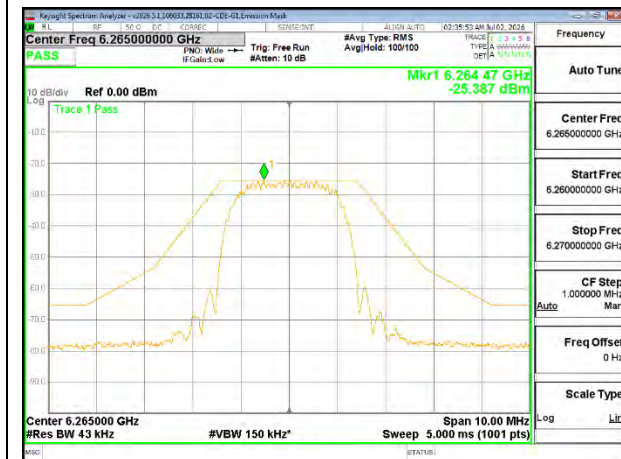
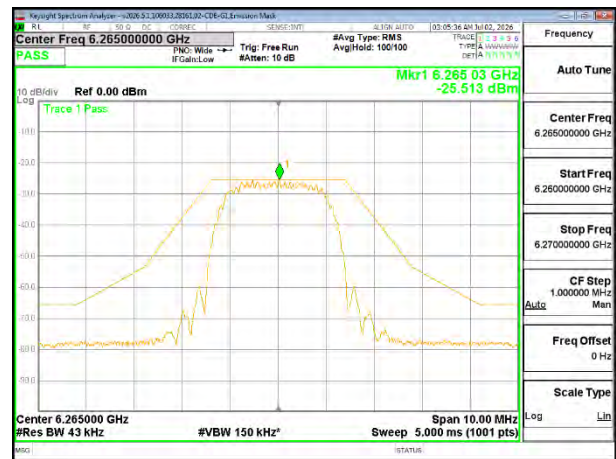
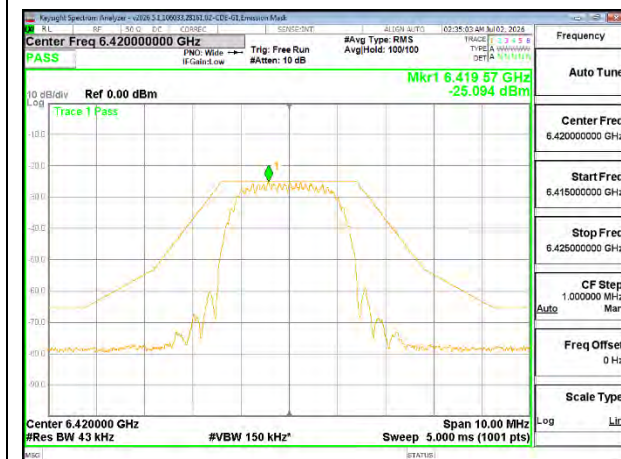
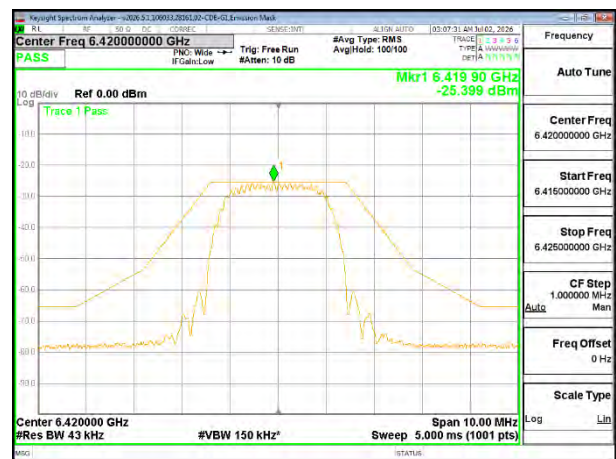
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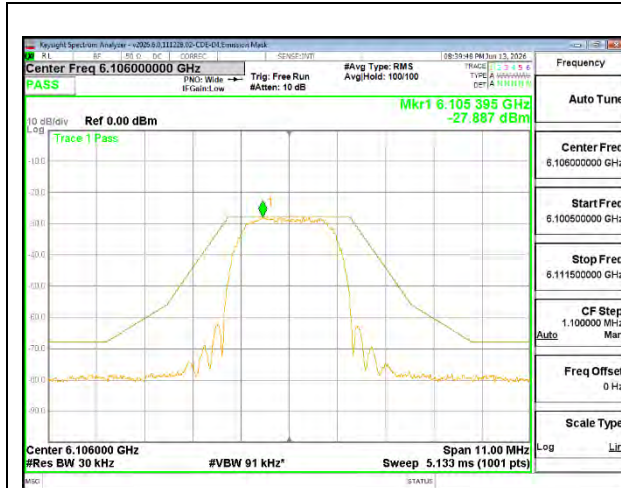
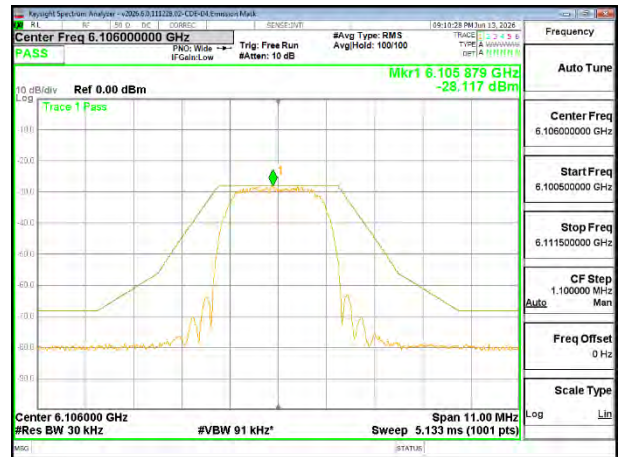
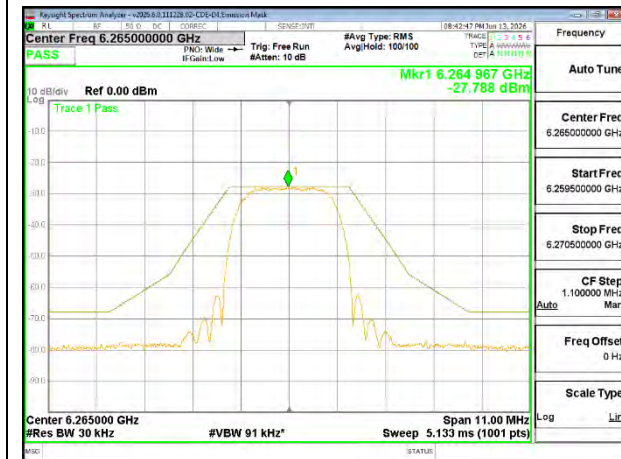
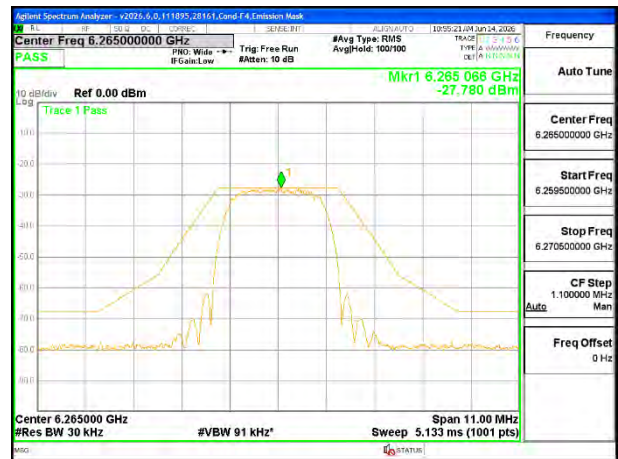
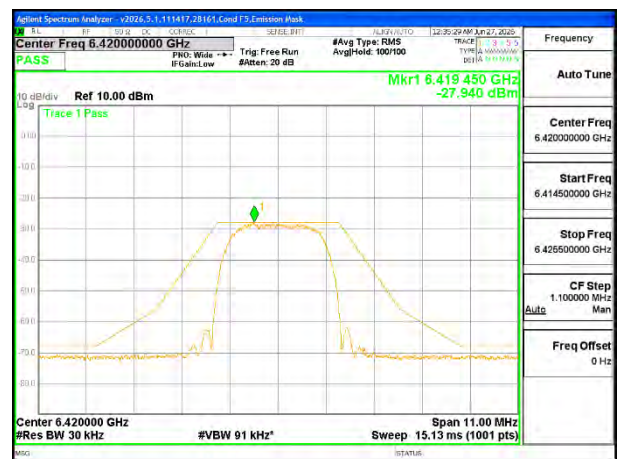
BDR

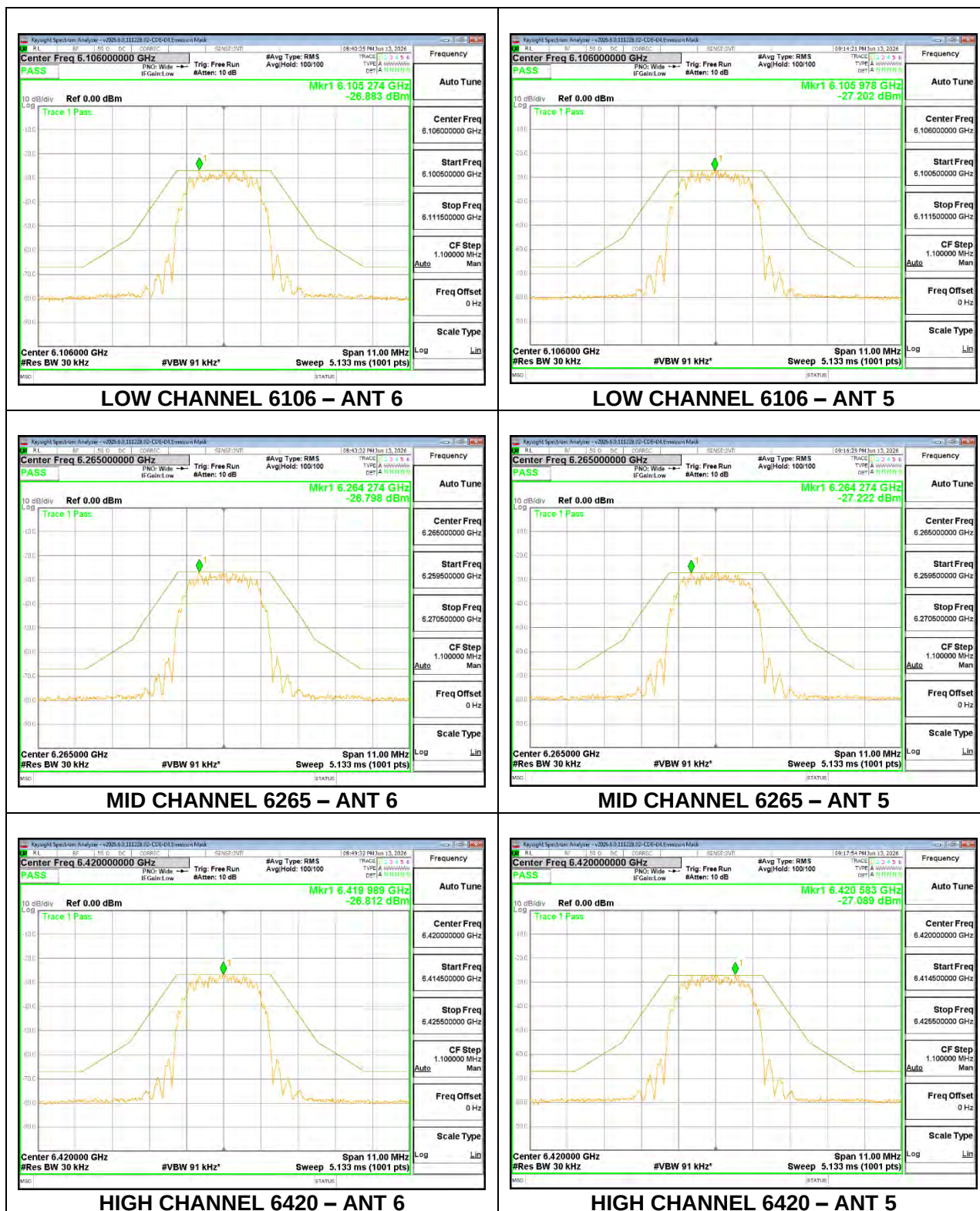
LE1M

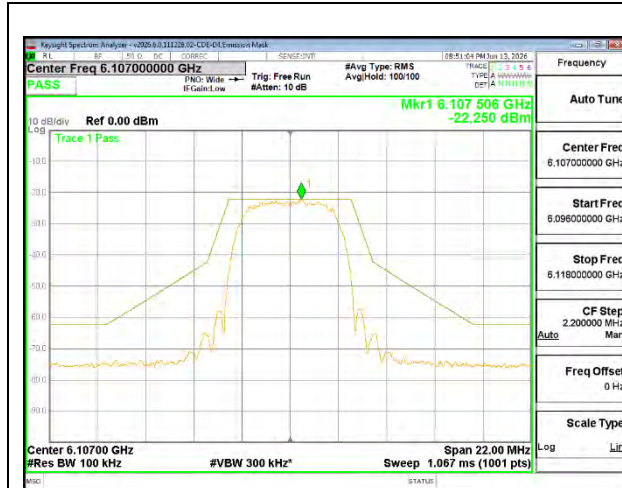
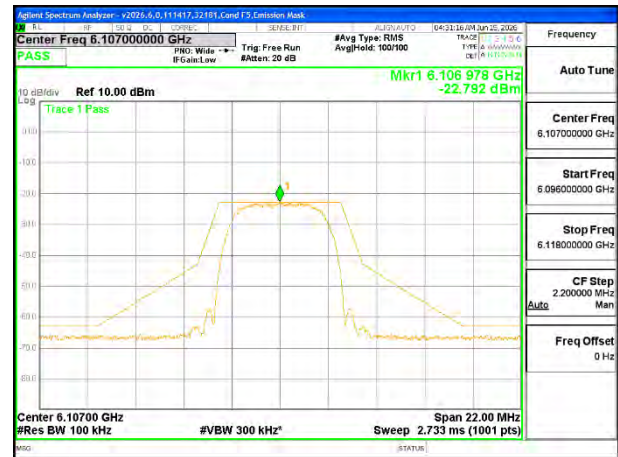
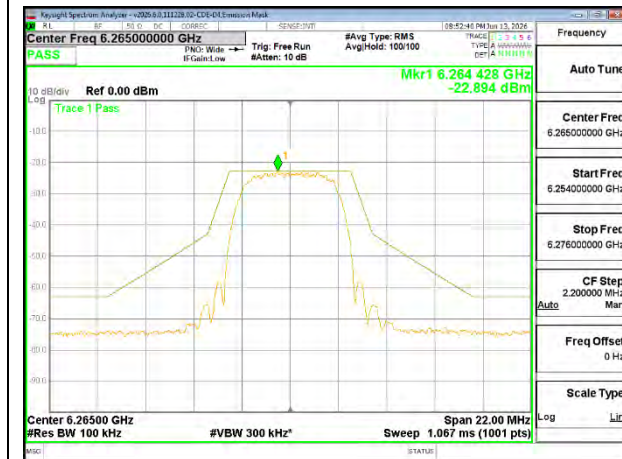
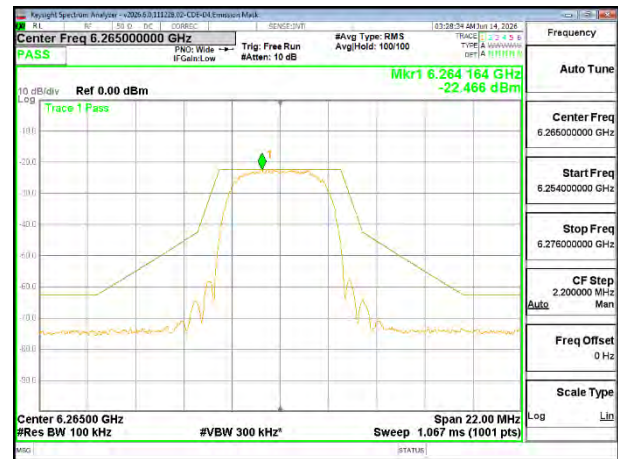
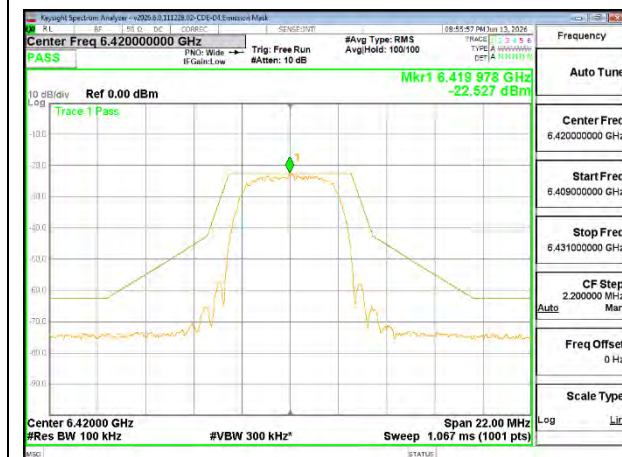
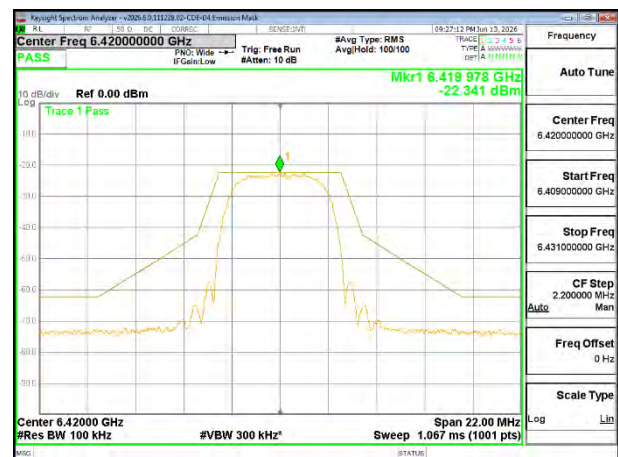
LE2M

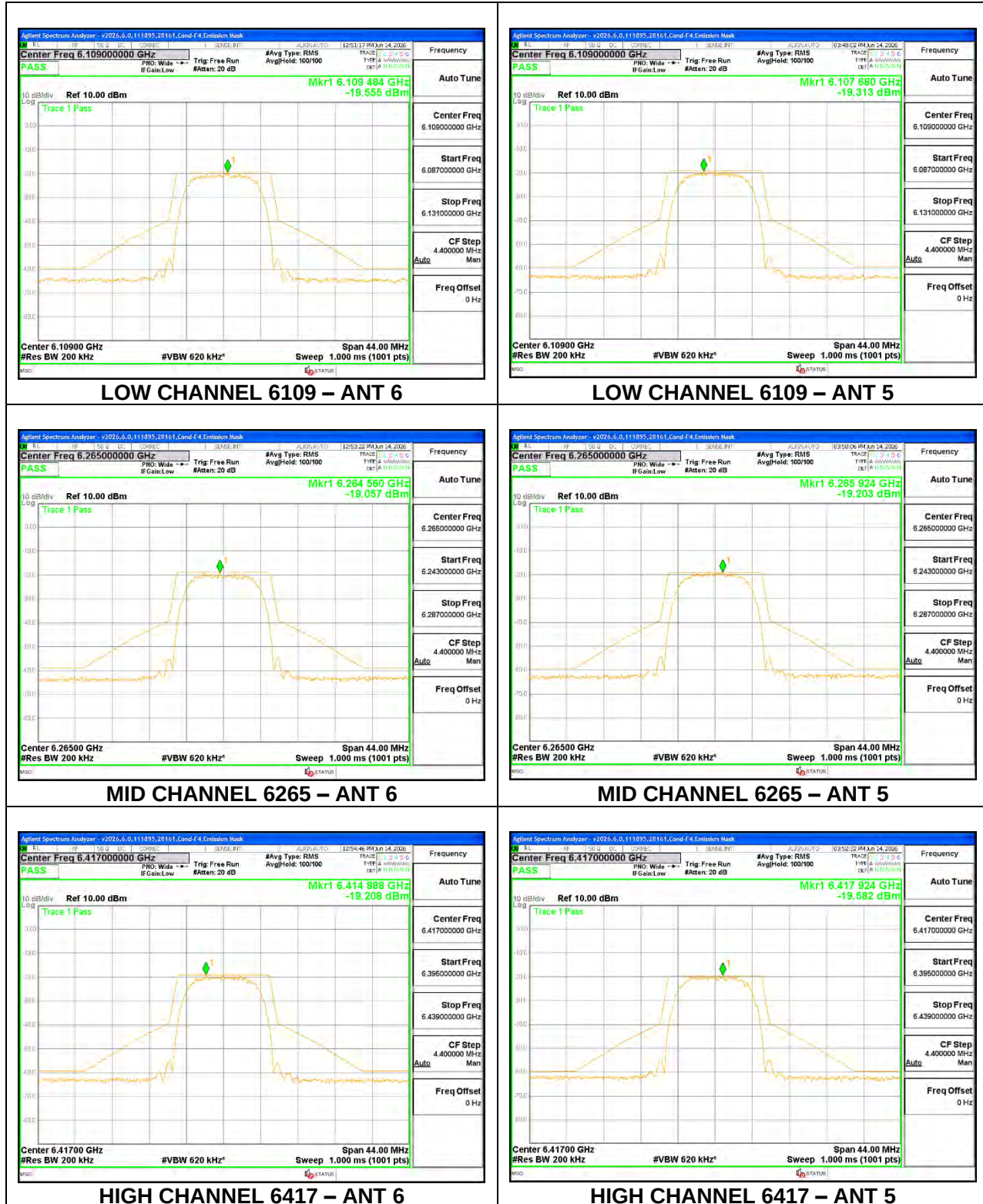
HDT2

HDT4**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

XHDRPS2**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

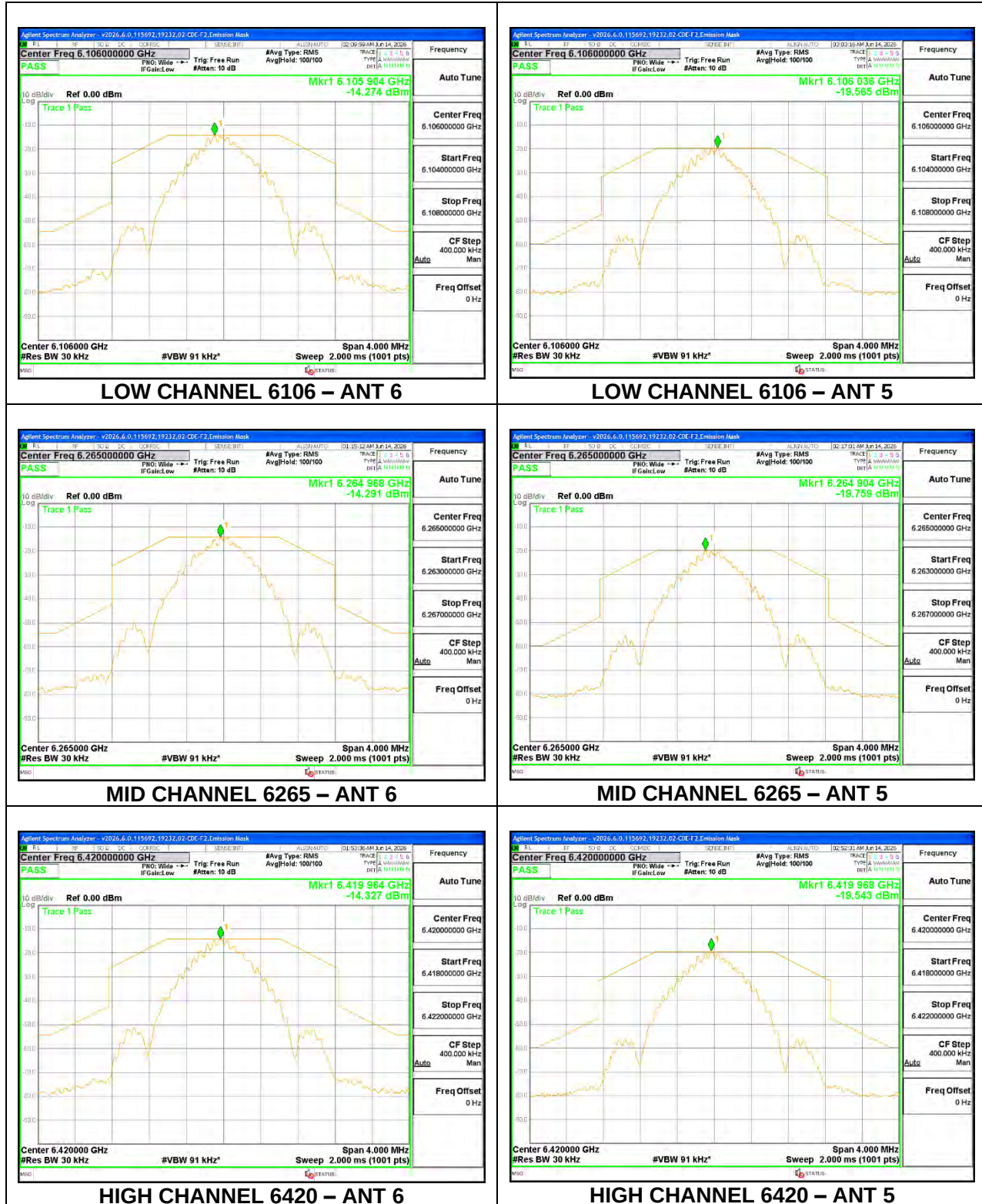
HDR4

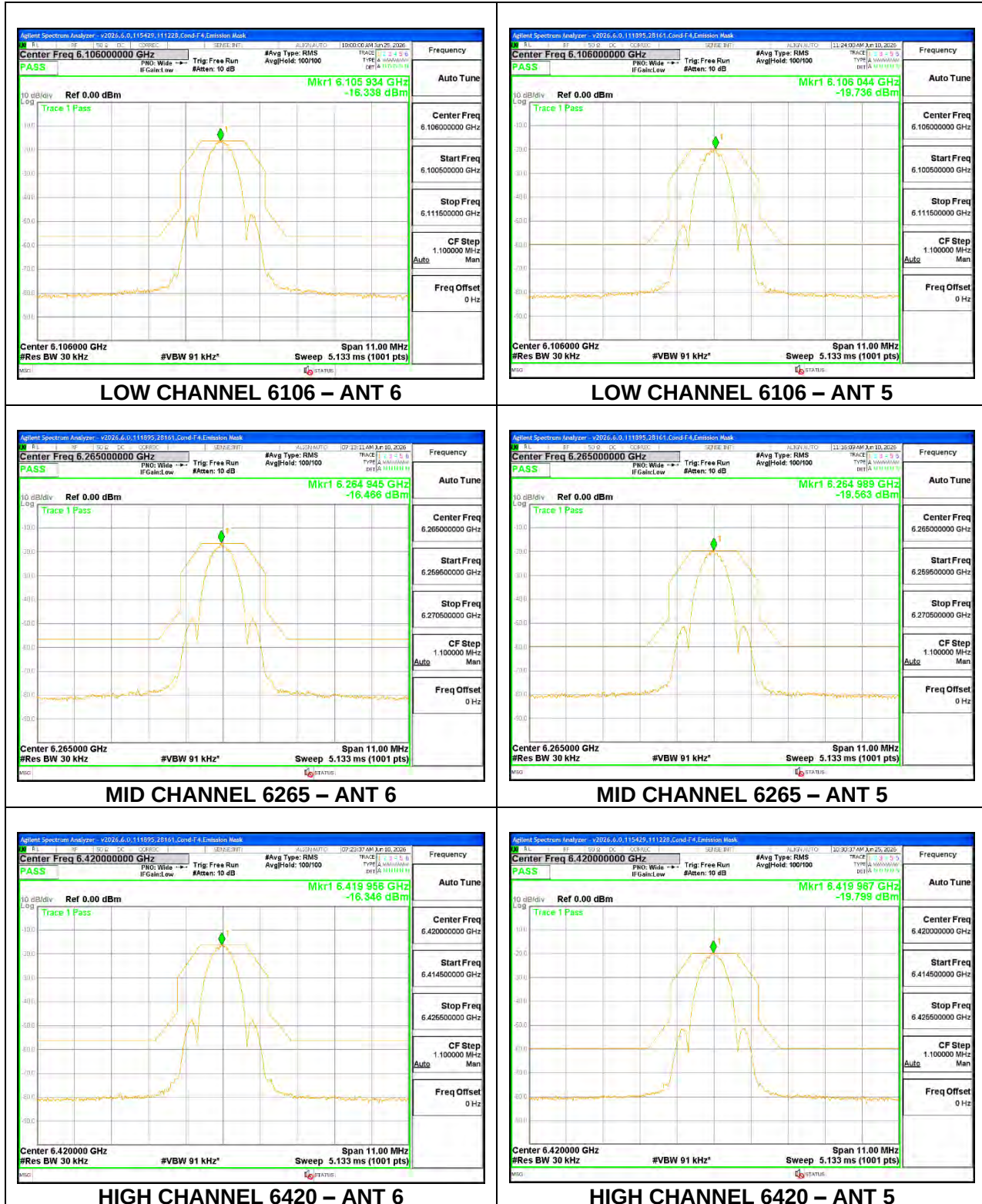
HDRPM16**LOW CHANNEL 6107 – ANT 6****LOW CHANNEL 6107 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

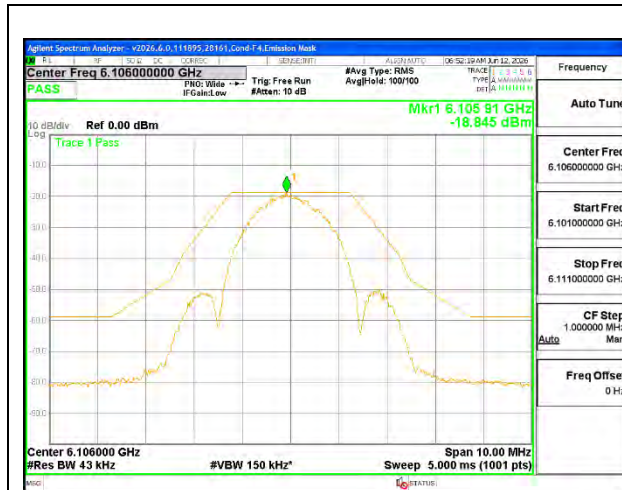
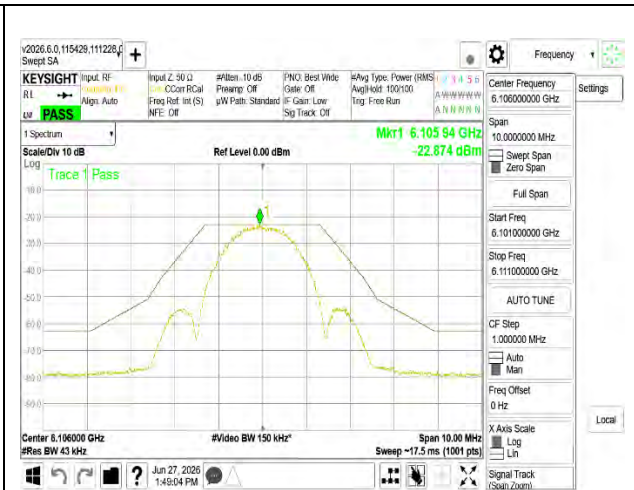
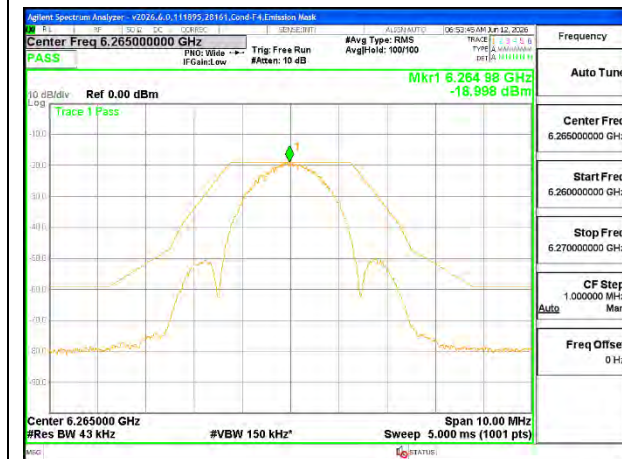
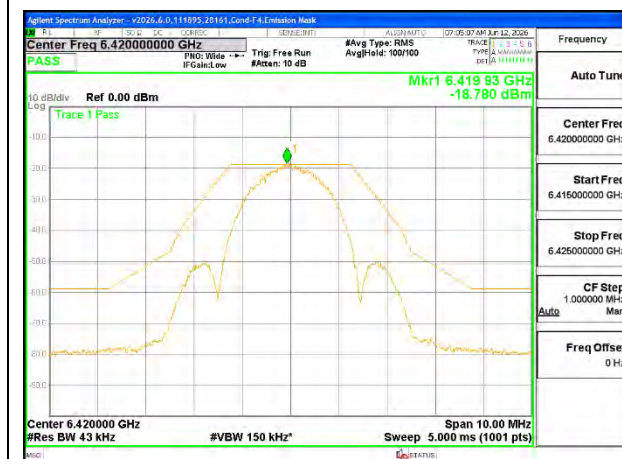
HDRPL8

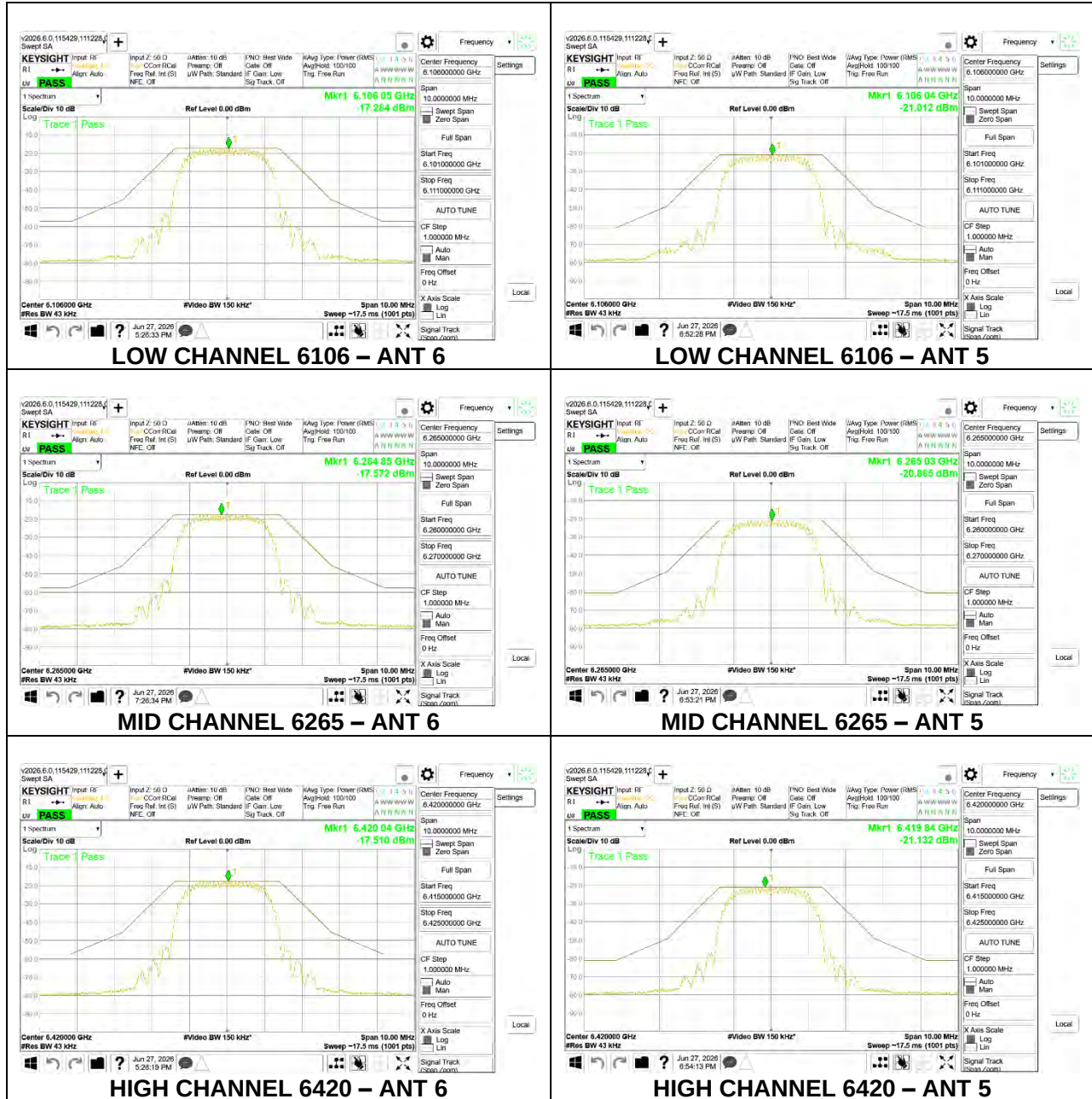
9.4.3. LOW POWER UNII-5 BAND SISO MODE

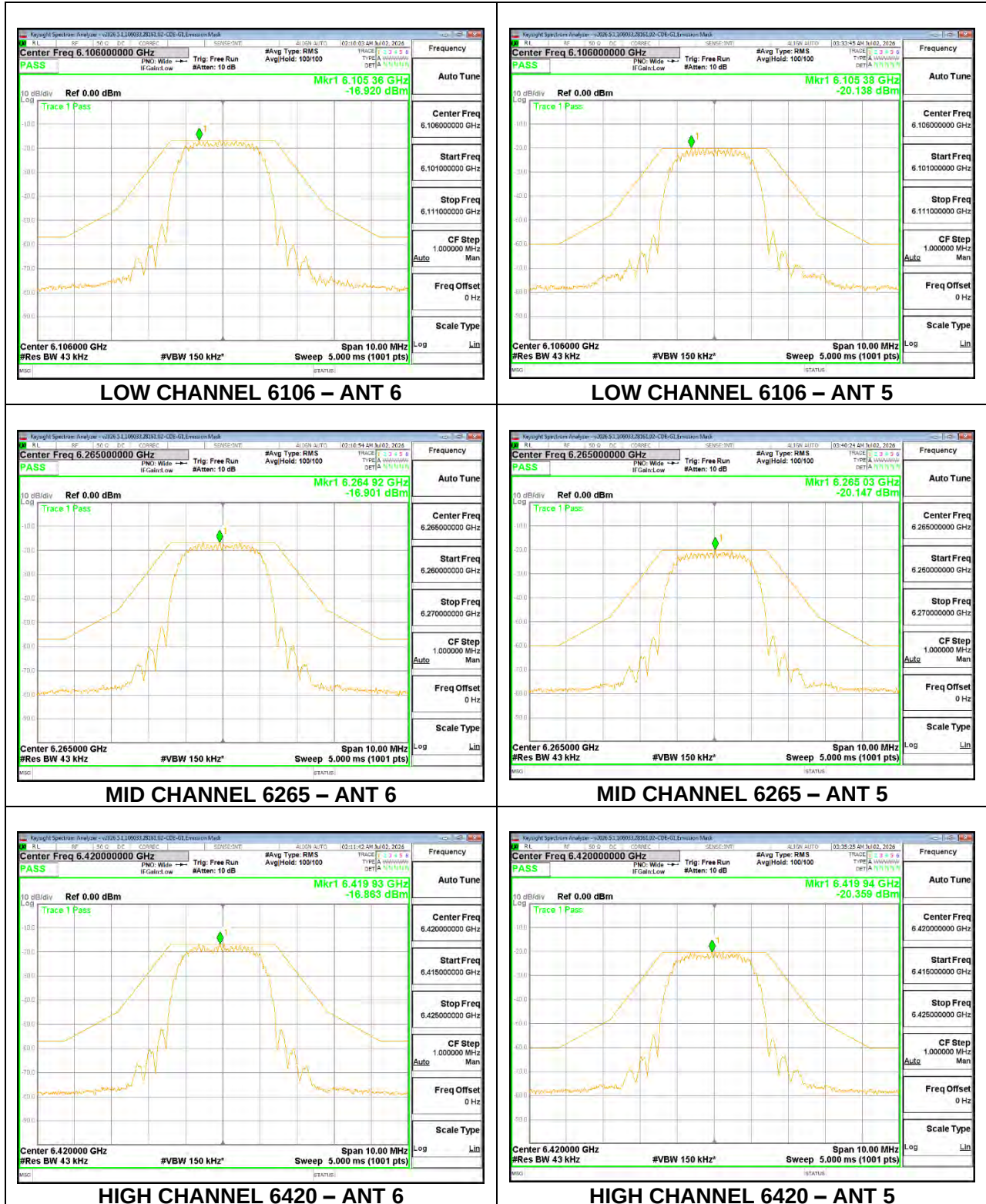
BDR

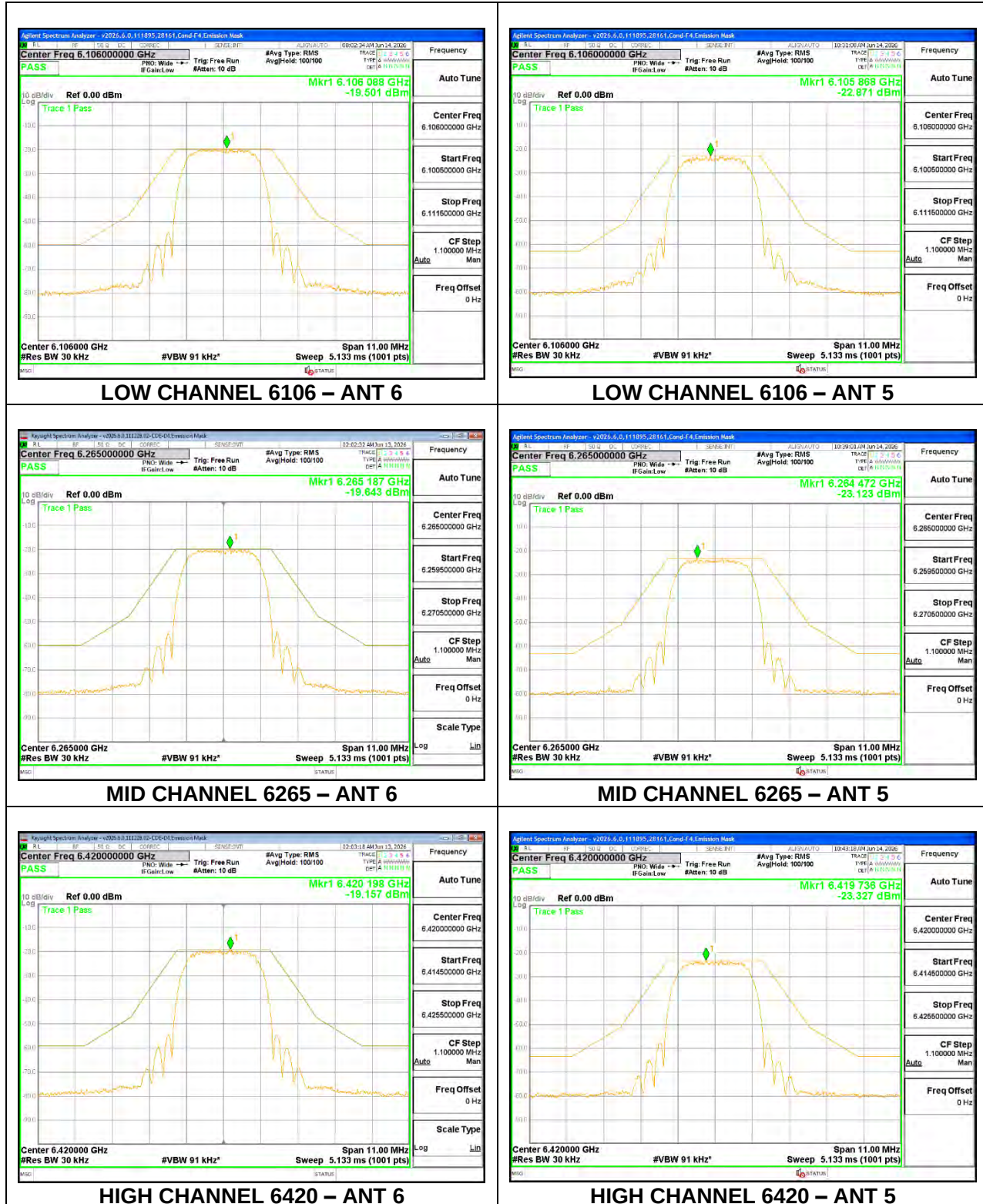


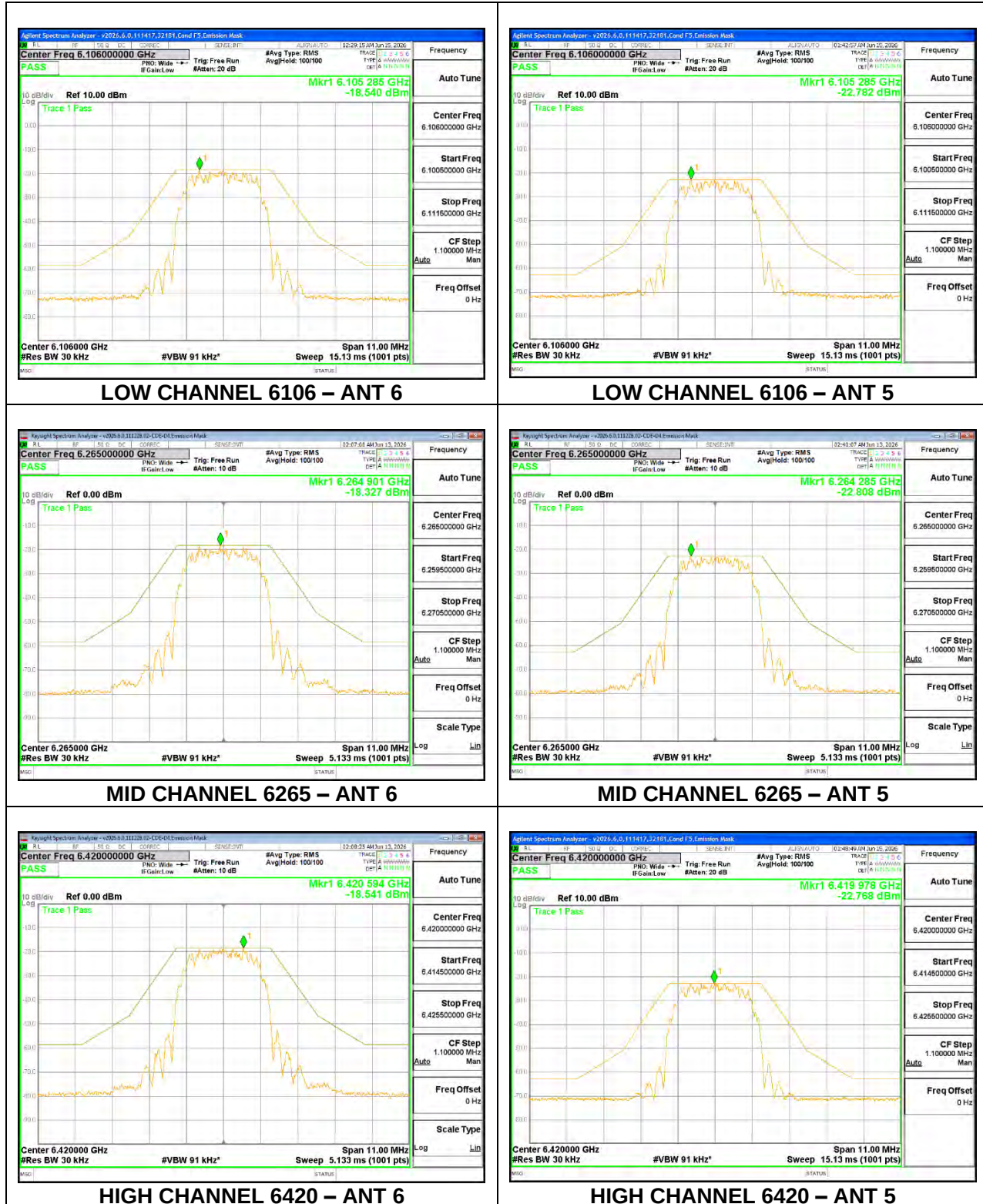
LE1M

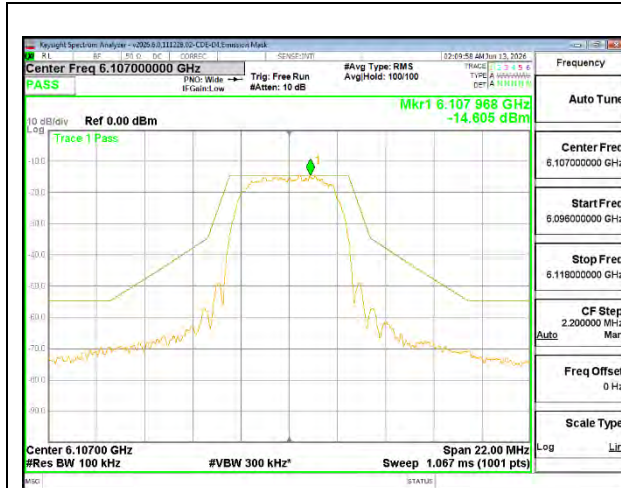
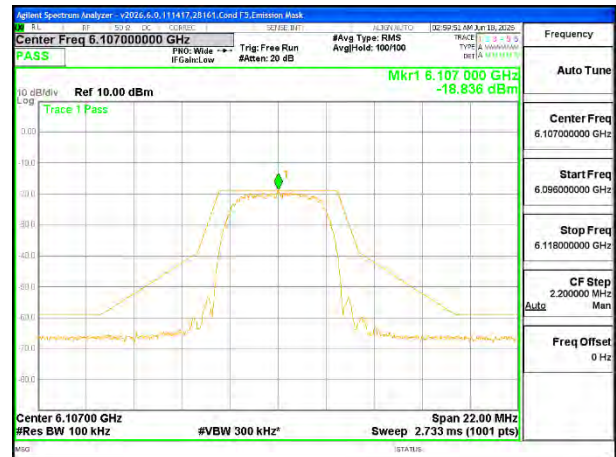
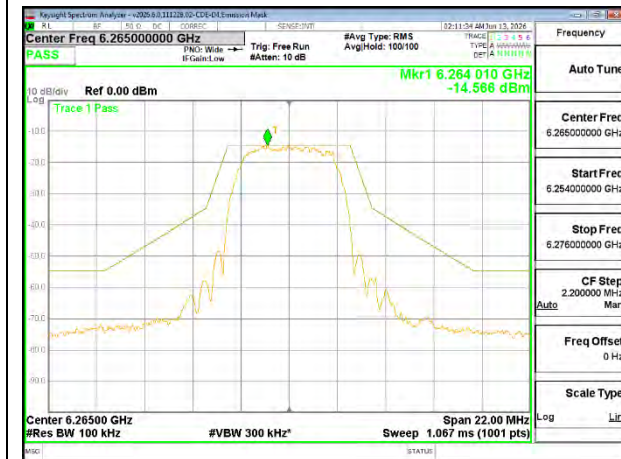
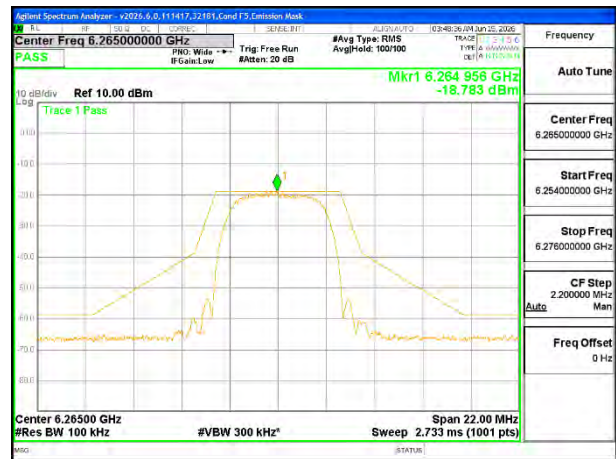
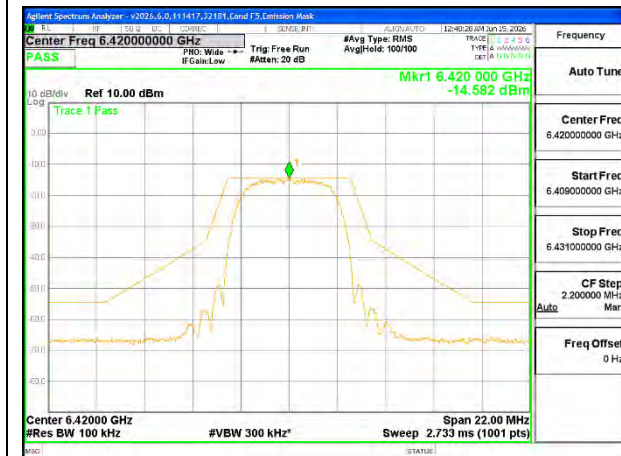
LE2M**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

HDT2

HDT4

XHDRPS2

HDR4

HDRPM16**LOW CHANNEL 6107 – ANT 6****LOW CHANNEL 6107 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

The figure displays four Agilent Spectrum Analyzer screenshots, arranged in a 2x2 grid, showing channel power for two antennas (ANT 5 and ANT 6) across three frequency channels (Low, Mid, and High). Each screenshot includes a main plot area, a top status bar with measurement parameters, and a right-hand sidebar with configuration details.

Low Channel 6109 – ANT 6: The plot shows a peak at 6.109000000 GHz. The marker reading is Mkr1 6.108 428 GHz, -11.453 dBm. The center frequency is 6.109000000 GHz, and the span is 44.00 MHz.

Low Channel 6109 – ANT 5: The plot shows a peak at 6.109000000 GHz. The marker reading is Mkr1 6.110 848 GHz, -15.128 dBm. The center frequency is 6.109000000 GHz, and the span is 44.00 MHz.

Mid Channel 6265 – ANT 6: The plot shows a peak at 6.265000000 GHz. The marker reading is Mkr1 6.262 624 GHz, -11.579 dBm. The center frequency is 6.265000000 GHz, and the span is 44.00 MHz.

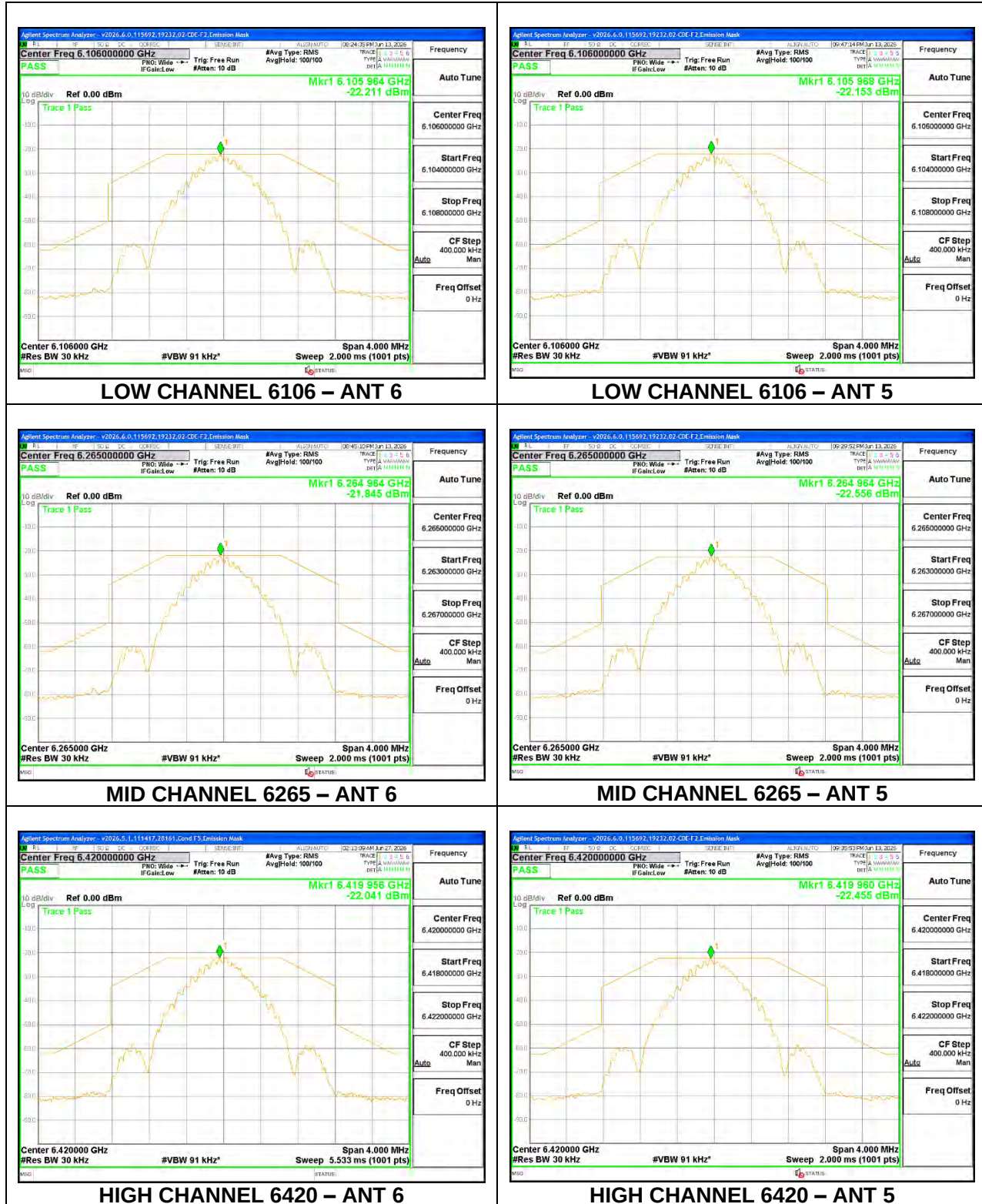
Mid Channel 6265 – ANT 5: The plot shows a peak at 6.265000000 GHz. The marker reading is Mkr1 6.265 816 GHz, -14.912 dBm. The center frequency is 6.265000000 GHz, and the span is 44.00 MHz.

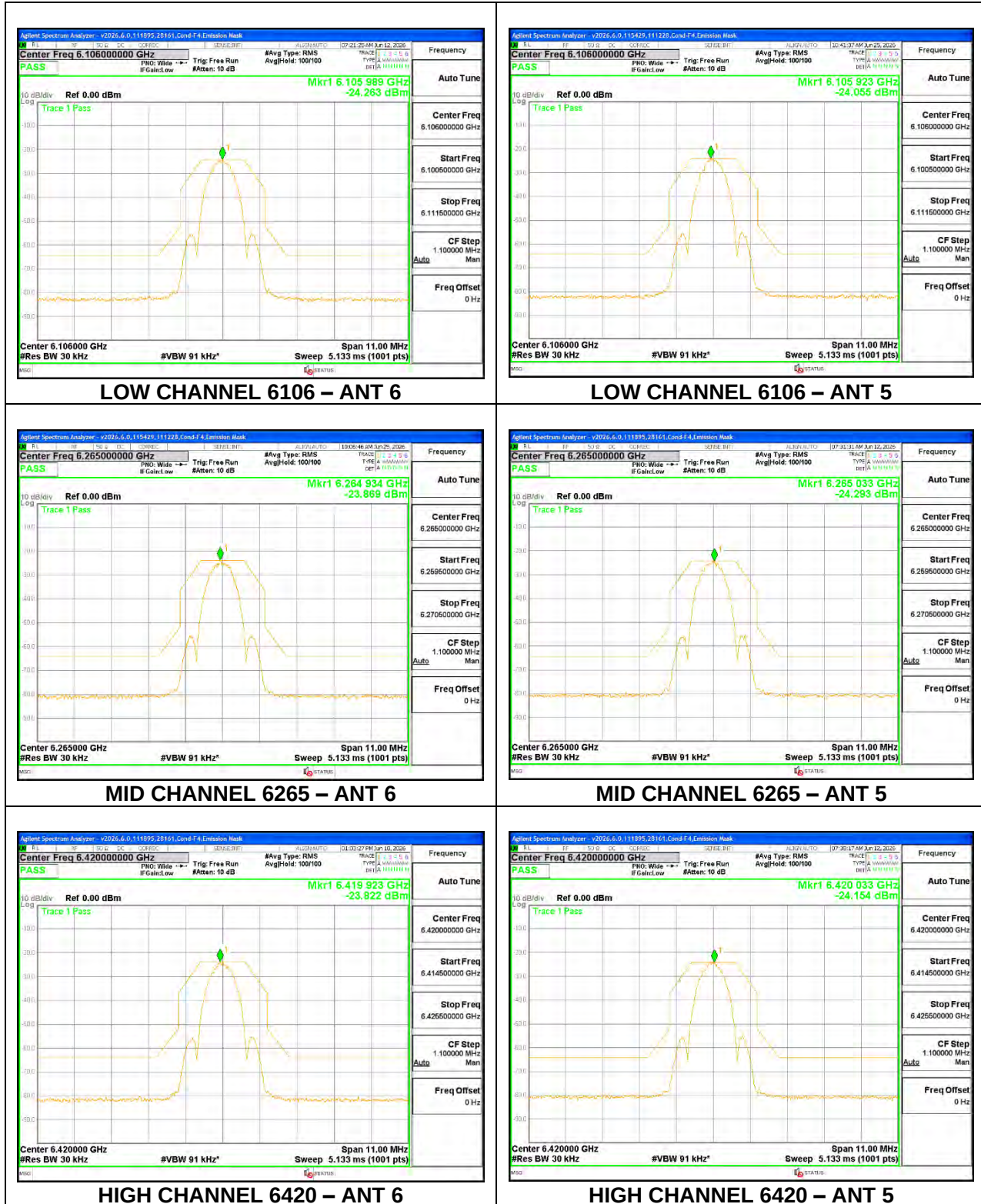
High Channel 6417 – ANT 6: The plot shows a peak at 6.417000000 GHz. The marker reading is Mkr1 6.418 736 GHz, -10.993 dBm. The center frequency is 6.417000000 GHz, and the span is 44.00 MHz.

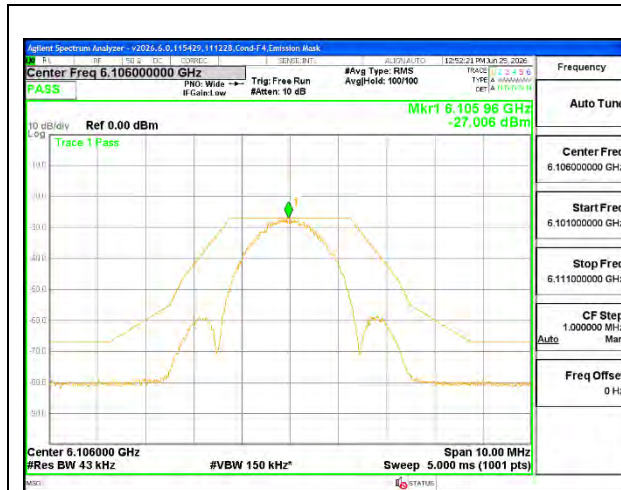
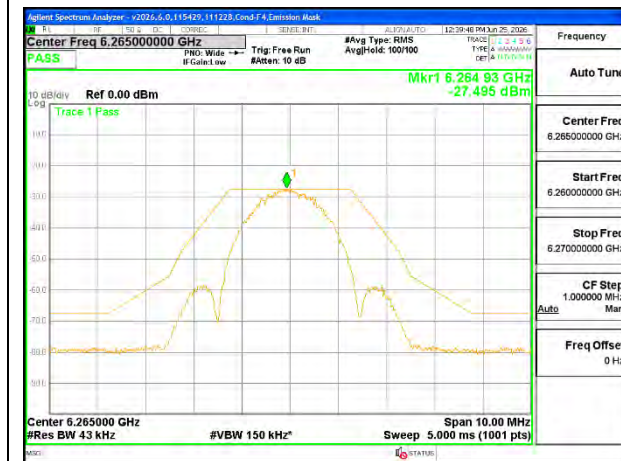
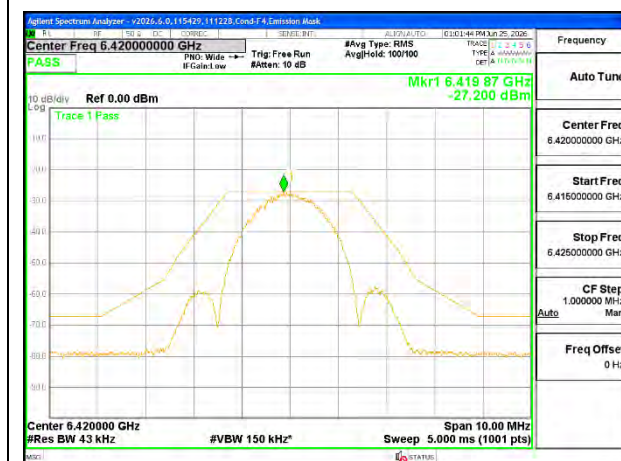
High Channel 6417 – ANT 5: The plot shows a peak at 6.417000000 GHz. The marker reading is Mkr1 6.414 536 GHz, -15.148 dBm. The center frequency is 6.417000000 GHz, and the span is 44.00 MHz.

9.4.4. LOW POWER UNII-5 BAND MIMO TXBF MODE

BDR



LE1M

LE2M**LOW CHANNEL 6106 – ANT 6****LOW CHANNEL 6106 – ANT 5****MID CHANNEL 6265 – ANT 6****MID CHANNEL 6265 – ANT 5****HIGH CHANNEL 6420 – ANT 6****HIGH CHANNEL 6420 – ANT 5**

HDT2