

Project No: TM-2509000187P
Report No.: TMWK2509003906KR

FCC ID: 2AU3U-NXB4
IC: 25629-NXB4

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Rev.: 01

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART E

INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.407 + IC RSS-247 issue 4 and RSS-GEN issue 5
Product name	beam4K
Brand Name	nexar
Model No.	NXBM4-1.0
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+ Errata to C63.10a-2024 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.(Wugu Laboratory)

Approved by:



Shawn Wu
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	June 26, 2026	Initial Issue	ALL	Peggy Tsai
01	July 14, 2026	See the following Note Rev.(01)	P. 4	Peggy Tsai

Rev. (01)

1. Modify PMN in section 1.1.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	FCC: NEXAR LTD 58 Harakevet St., 22nd floor, Tel Aviv 6777016, ISRAEL IC: NEXAR LTD 58 Harakevet St., 22nd floor, Tel Aviv, 6777016, Israel (State Of)
Manufacturer	FCC: NEXAR LTD 58 Harakevet St., 22nd floor, Tel Aviv 6777016, ISRAEL IC: NEXAR LTD 58 Harakevet St., 22nd floor, Tel Aviv, 6777016, Israel (State Of)
Equipment	beam4K
Model No. / HVIN	NXBM4-1.0
Model Discrepancy	N/A
Trade Name	nexar
Received Date	September 22, 2025
Date of Test	January 14 ~ March 9, 2026
Power Operation	Powered from Power Supply (DC 12V)
PMN	beam4K
EUT Serial #	Single-lens: B4-1GL0-C200I9I Dual-lens: B4-2GL0-5B200G08
HW Version	Main board 001AH2225L-E01
SW Version	SOC_ver : 0253

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Product available with single-lens and dual-lens options.

1.2 EUT CHANNEL INFORMATION

Frequency Range (FCC)	UNII-1	
	IEEE 802.11a	5180 ~ 5240 MHz
	IEEE 802.11n HT20	5180 ~ 5240 MHz
	IEEE 802.11ac VHT20	5180 ~ 5240 MHz
	IEEE 802.11n HT40	5190 ~ 5230 MHz
	IEEE 802.11ac VHT40	5190 ~ 5230 MHz
	IEEE 802.11ac VHT80	5210 MHz
	UNII-2a	
	IEEE 802.11a	5260 ~ 5320 MHz
	IEEE 802.11n HT20	5260 ~ 5320 MHz
	IEEE 802.11ac VHT20	5260 ~ 5320 MHz
	IEEE 802.11n HT40	5270 ~ 5310 MHz
	IEEE 802.11ac VHT40	5270 ~ 5310 MHz
	IEEE 802.11ac VHT80	5290 MHz
	UNII-2c	
	IEEE 802.11a	5500 ~ 5700 MHz
	IEEE 802.11n HT20	5500 ~ 5700 MHz
	IEEE 802.11ac VHT20	5500 ~ 5700 MHz
	IEEE 802.11n HT40	5510 ~ 5670 MHz
	IEEE 802.11ac VHT40	5510 ~ 5670 MHz
	IEEE 802.11ac VHT80	5530 ~ 5610 MHz
	UNII-3	
	IEEE 802.11a	5745 ~ 5825 MHz
	IEEE 802.11n HT20	5745 ~ 5825 MHz
	IEEE 802.11ac VHT20	5745 ~ 5825 MHz
	IEEE 802.11n HT40	5755 ~ 5795 MHz
	IEEE 802.11ac VHT40	5755 ~ 5795 MHz
	IEEE 802.11ac VHT80	5775 MHz

Frequency Range (IC)	UNII-1	
	IEEE 802.11a	5180 ~ 5240 MHz
	IEEE 802.11n HT20	5180 ~ 5240 MHz
	IEEE 802.11ac VHT20	5180 ~ 5240 MHz
	IEEE 802.11n HT40	5190 ~ 5230 MHz
	IEEE 802.11ac VHT40	5190 ~ 5230 MHz
	IEEE 802.11ac VHT80	5210 MHz
	UNII-2a	
	IEEE 802.11a	5260 ~ 5320 MHz
	IEEE 802.11n HT20	5260 ~ 5320 MHz
	IEEE 802.11ac VHT20	5260 ~ 5320 MHz
	IEEE 802.11n HT40	5270 ~ 5310 MHz
	IEEE 802.11ac VHT40	5270 ~ 5310 MHz
	IEEE 802.11ac VHT80	5290 MHz
	UNII-2c	
	IEEE 802.11a	5500 ~ 5700 MHz
	IEEE 802.11n HT20	5500 ~ 5700 MHz
	IEEE 802.11ac VHT20	5500 ~ 5700 MHz
	IEEE 802.11n HT40	5510 ~ 5670 MHz
	IEEE 802.11ac VHT40	5510 ~ 5670 MHz
	IEEE 802.11ac VHT80	5530 MHz
	UNII-3	
	IEEE 802.11a	5745 ~ 5825 MHz
	IEEE 802.11n HT20	5745 ~ 5825 MHz
	IEEE 802.11ac VHT20	5745 ~ 5825 MHz
	IEEE 802.11n HT40	5755 ~ 5795 MHz
	IEEE 802.11ac VHT40	5755 ~ 5795 MHz
	IEEE 802.11ac VHT80	5775 MHz

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Modulation Type	1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20 MHz mode: OFDM 3. IEEE 802.11n HT 40 MHz mode: OFDM 4. IEEE 802.11ac VHT 20 MHz mode: OFDM 5. IEEE 802.11ac VHT 40 MHz mode: OFDM 5. IEEE 802.11ac VHT 80 MHz mode: OFDM
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Remark:

1. Refer as ANSI C63.10-2020, ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and RSS-GEN for test channels.
2. Device does not support TDWR Band, exclude 5600-5650MHz.

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	☒ PIFA ☐ PCB ☐ Dipole ☐ FPC Antenna
Antenna Gain	Band I (5150-5250 MHz): Gain: 1.72 dBi Band II (5250~5350 MHz): Gain: 2.13 dBi Band III (5470-5725 MHz): Gain: 1.39 dBi Band IV (5725-5850MHz): Gain: -0.13 dBi
Antenna Connector	Pogo Pin

Note:

1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-GEN 6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.37dB
Channel Bandwidth	± 2.85dB
RF output power (Spectrum)	± 2.74dB
RF output power (Power Meter + Power sensor)	± 0.27dB
Power Spectral density	± 2.74dB
Radiated Emission_9kHz-30MHz	± 2.750 dB
Radiated Emission_30MHz-200MHz	± 3.874 dB
Radiated Emission_200MHz-1GHz	± 4.065 dB
Radiated Emission_1GHz-6GHz	± 5.594 dB
Radiated Emission_6GHz-18GHz	± 5.556 dB
Radiated Emission_18GHz-26GHz	± 3.165 dB
Radiated Emission_26GHz-40GHz	± 3.216 dB

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT not connect to AC Main Source direct.
Radiation	Tony Chao, Ben Yang	-
RF Conducted	Marco Chan	-
DFS Test	KW Huang	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

1.6 INSTRUMENT CALIBRATION

Conducted_FCC/IC/NCC (All)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2025-09-24	2026-09-23
Power Sensor	Anritsu	MA2411B	1911387	2025-08-21	2026-08-20
Power Sensor	Anritsu	MA2411B	1911386	2025-07-07	2026-07-06
Power Meter	Anritsu	ML2496A	2136002	2025-07-07	2026-07-06
DC Blocks	Marvelous Microwave	MVE6411	MVE-001	2025-08-06	2026-08-05
Attenuator	Marvelous Microwave Inc	MVE2213-10	08	2025-11-06	2026-11-05
DC Power Source	GWINSTEK	GPC-3030D	8070184	2025-09-15	2026-09-14
Software	Radio Test Software Ver. 21				

966A_Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2025-03-05	2026-03-04
EXA Signal Analyzer	Agilent	N9010A	MY53400256	2025-11-26	2026-11-25
Active Loop Antenna	COM-POWER	AL-130	121051	2025-02-18 2026-02-04	2026-02-17 2027-02-03
Thermo-Hygro Meter	HTC	HTC-1	HTC-D06	2025-05-26	2026-05-25
Bi-Log Antenna	Sunol Sciences	JB3	A030105&532	2025-06-26	2026-06-25
Preamplifier	EMEC	EM330	060609	2025-02-20 2026-02-13	2026-02-19 2027-02-12
Cable	Huber+Suhner	104PEA	20995+21000+18 2330	2025-08-06	2026-08-05
Horn Antenna	ETC	MCTD	DRH13M02003	2025-12-19	2026-12-18
Preamplifier	HP	8449B	3008A00965	2025-12-17	2026-12-16
Cable	EMCI	EMC101G	221012+230205+ 250412	2025-04-24	2026-04-23
Cable	EMCI	EMC101G	1508S0193+2302 06+250412	2026-01-14	2027-01-13
Attenuator	Mini-Circuits	BW-S9W5	BWS9W5-09- 966A-01	2025-02-06 2026-02-05	2026-02-05 2027-02-04
High Pass Filters	Titan Microwave	T04H3000180007 0S01	22011402-4	2025-06-03	2026-06-02
Pre-Amplifier	EMC	EMC184045SE	980860	2025-11-19	2026-11-18
Horn Antenna	SCHWARZBECK	BBHA9170	1047	2025-12-09	2026-12-08
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.

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DFS Test					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Signal Analyzer	Keysight	N9010B	MY55460167	2025-06-13	2026-06-12
Vector Signal Generator	KEYSIGHT	N5182B/ N5182BX07	MY61252828/ MY59362552	2025-12-31	2026-12-30
Attenuator	E-INSTRUMENT	EPA-600H	EC1400050	2025-06-13	2026-06-12
Power Divider	Solvang Technology	STI08-0015	008	2025-06-22	2026-06-21
Power Divider	Marvelous Microwave	MVE8586	16011201	2025-06-12	2026-06-11
Power Divider	Marvelous Microwave	MVE8586	16011202	2025-06-12	2026-06-11
DC Power Source	Motech	PPS1208	12033120005	2025-10-14	2026-10-13
Cable	Woken	SUMITOMO	1	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	2	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	3	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	4	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	5	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	6	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	8	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	9	2025-02-27	2026-02-26
Cable	Woken	SUMITOMO	14	2025-06-26	2026-06-25
Software	Dynamic Frequency Selection Test version 25.03.05				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

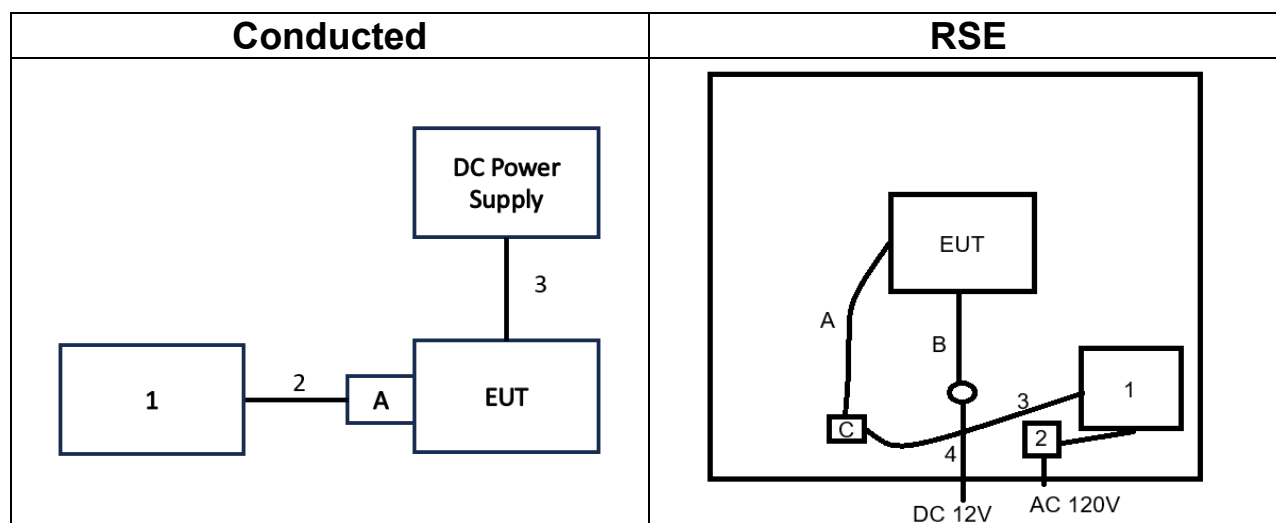
1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment (Conducted)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(N)	Lenovo	X260	N/A	N/A
2	USB-A to Micro-USB 2.0	PHILIPS	DLC4562U	N/A	N/A
3	DC Power Cable	MISUMI	MCR3S-RE	N/A	N/A
A	Test Kit	N/A	N/A	N/A	N/A

Support Equipment (RSE)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A
3	Micro USB Cable	Philips	DLC4562U/11	N/A	N/A
4	DC Cable	MISUMI	MCR3S-RE	N/A	N/A
A	HDMI Cable	N/A	N/A	N/A	N/A
B	Power Cable	N/A	N/A	N/A	N/A
C	HDMI-Micro PCB	FTDI	2038-C	N/A	N/A

1.8 TEST SET UP DIAGRAM



1.9 TEST PROGRAM

This EUT uses "Tera Term" software and setup command to set the frequency, modulation, and power to allow the sample to continuously transmit.

1.10 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10-2020, ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, FCC Part 2, FCC Part 15.407, KDB 789033 D02 v02r01, KDB 905462 D02 v02, RSS-247 Issue 4 and RSS-GEN Issue 5.

2. TEST SUMMERY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	-	1.3	Antenna Requirement	Pass
15.207	RSS-Gen (8.8)	4.1	AC Conducted Emission	N/A
15.407(a)	-	4.2	26dB Bandwidth	Pass
15.407(e)	RSS-247(7)	4.2	6dB Bandwidth	Pass
2.1049	RSS-Gen (6.7)	4.2	Occupied Bandwidth (99%)	Pass
15.407(a)	RSS-247(7)	4.3	Output Power Measurement	Pass
15.407(a)	RSS-247(7)	4.4	Power Spectral Density	Pass
15.407(b)	RSS-247(7) RSS-Gen (8.9 /8.10)	4.5	Radiation Band Edge	Pass
15.407(b)	RSS-247(7) RSS-Gen (8.9 /8.10)	4.5	Radiation Spurious Emission	Pass
15.407(h)	RSS-247(7.3.6)	4.6	Dynamic Frequency Selection	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT20 mode: MCS0 3. IEEE 802.11n HT40 mode: MCS0 4. IEEE 802.11ac VHT20 mode: MCS0 5. IEEE 802.11ac VHT40 mode: MCS0 6. IEEE 802.11ac VHT80 mode: MCS0			
Operating Frequency (FCC)	U-NII-1		Mode	Frequency Range (MHz)
			IEEE 802.11a	5180, 5220, 5240
			IEEE 802.11n HT20	5180, 5220, 5240
			IEEE 802.11n HT40	5190, 5230
			IEEE 802.11ac VHT20	5180, 5220, 5240
			IEEE 802.11ac VHT40	5190, 5230
	U-NII-2a		IEEE 802.11ac VHT80	5210
			IEEE 802.11a	5260, 5300, 5320
			IEEE 802.11n HT20	5260, 5300, 5320
			IEEE 802.11n HT40	5270, 5310
			IEEE 802.11ac VHT20	5260, 5300, 5320
			IEEE 802.11ac VHT40	5270, 5310
	U-NII-2c		IEEE 802.11ac VHT80	5290
			IEEE 802.11a	5500, 5580, 5700
			IEEE 802.11n HT20	5500, 5580, 5700
			IEEE 802.11n HT40	5510, 5550, 5670
			IEEE 802.11ac VHT20	5500, 5580, 5700
			IEEE 802.11ac VHT40	5510, 5550, 5670
	U-NII-3		IEEE 802.11ac VHT80	5530, 5610
			IEEE 802.11a	5745, 5785, 5825
			IEEE 802.11n HT20	5745, 5785, 5825
			IEEE 802.11n HT40	5755, 5795
			IEEE 802.11ac VHT20	5745, 5785, 5825
			IEEE 802.11ac VHT40	5755, 5795
	IEEE 802.11ac VHT80	5775		

		Mode	Frequency Range (MHz)
Operating Frequency (IC)	U-NII-1	IEEE 802.11a	5180, 5220, 5240
		IEEE 802.11n HT20	5180, 5220, 5240
		IEEE 802.11n HT40	5190, 5230
		IEEE 802.11ac VHT20	5180, 5220, 5240
		IEEE 802.11ac VHT40	5190, 5230
		IEEE 802.11ac VHT80	5210
	U-NII-2a	IEEE 802.11a	5260, 5300, 5320
		IEEE 802.11n HT20	5260, 5300, 5320
		IEEE 802.11n HT40	5270, 5310
		IEEE 802.11ac VHT20	5260, 5300, 5320
		IEEE 802.11ac VHT40	5270, 5310
		IEEE 802.11ac VHT80	5290
	U-NII-2c	IEEE 802.11a	5500, 5580, 5700
		IEEE 802.11n HT20	5500, 5580, 5700
		IEEE 802.11n HT40	5510, 5550, 5670
		IEEE 802.11ac VHT20	5500, 5580, 5700
		IEEE 802.11ac VHT40	5510, 5550, 5670
		IEEE 802.11ac VHT80	5530
	U-NII-3	IEEE 802.11a	5745, 5785, 5825
		IEEE 802.11n HT20	5745, 5785, 5825
		IEEE 802.11n HT40	5755, 5795
		IEEE 802.11ac VHT20	5745, 5785, 5825
		IEEE 802.11ac VHT40	5755, 5795
		IEEE 802.11ac VHT80	5775
Operation Transmitter	1. IEEE 802.11a mode: 1T1R(SISO) 2. IEEE 802.11n HT20 mode: 1T1R(SISO) 3. IEEE 802.11n HT40 mode: 1T1R(SISO) 4. IEEE 802.11ac VHT20 mode: 1T1R(SISO) 5. IEEE 802.11ac VHT40 mode: 1T1R(SISO) 6. IEEE 802.11ac VHT80 mode: 1T1R(SISO)		

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Power Supply (3wired_Single Camera)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Power Supply (3wired_Single Camera) Mode 2: EUT power by Power Supply (3wired_Twin Camera) Mode 3: EUT power by Power Supply (Car Charger_Single Camera) Mode 4: EUT power by Power Supply (Car Charger_Twin Camera) Mode 5: EUT power by Power Supply (OBD_Single Camera) Mode 6: EUT power by Power Supply (OBD_Twin Camera)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

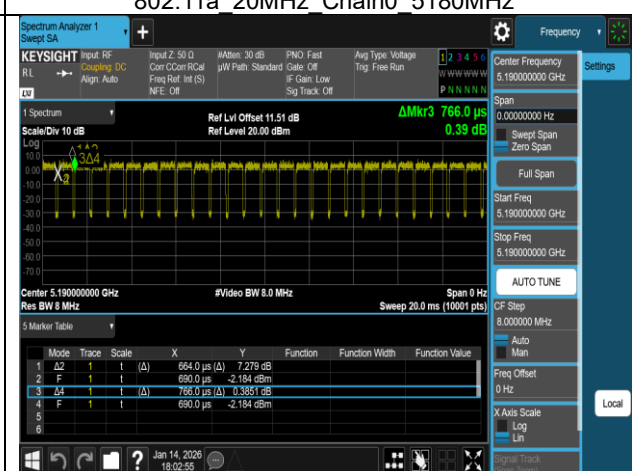
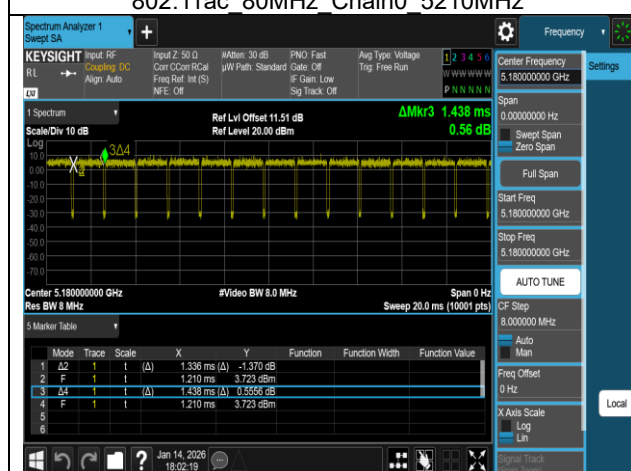
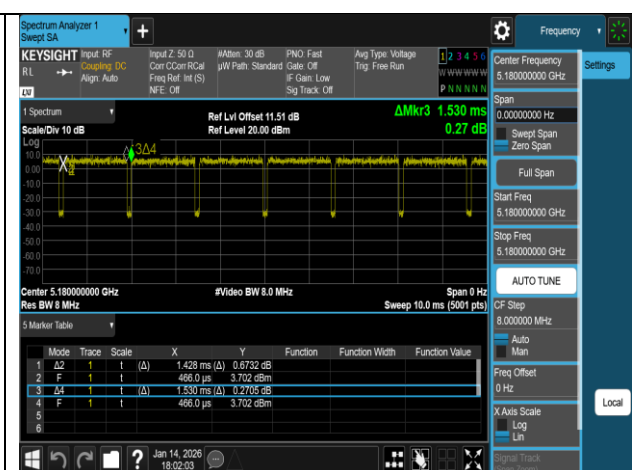
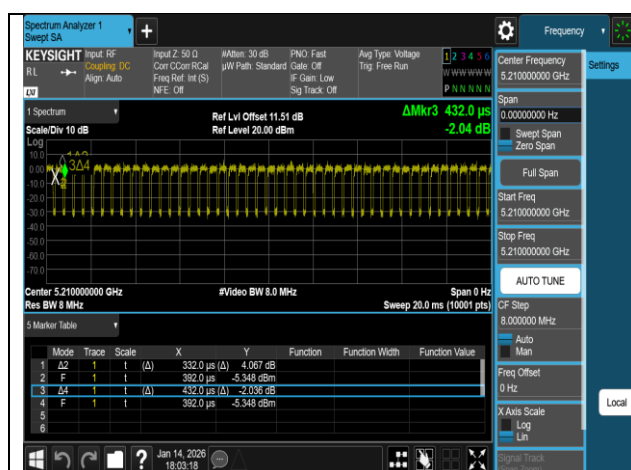
1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report.

3.3 EUT DUTY CYCLE

Temperature: 21.5 ~ 24.7°C
Humidity: 50 ~ 62% RH

Test date: January 14 ~ 29, 2026
Tested by: Marco Chan

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	93.33	0.30	0.70	1.00
802.11n_20	92.91	0.32	0.75	1.00
802.11n_40	86.68	0.62	1.51	2.00
802.11ac_80	76.85	1.14	3.01	4.00



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

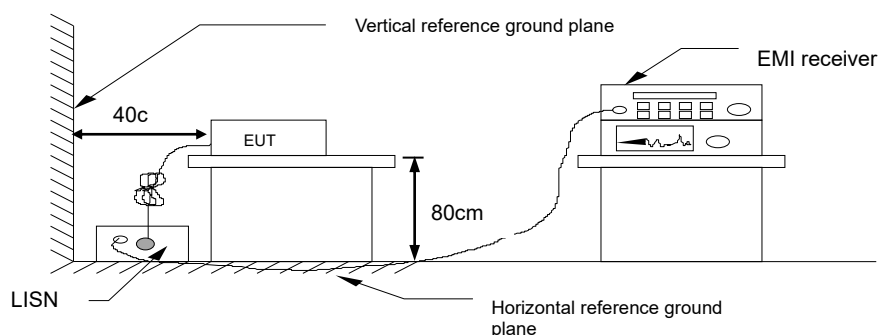
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10-2020, ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Not applicable, because EUT not connect to AC Main Source direct.

4.2 26dB BANDWIDTH, 6dB BANDWIDTH AND OCCUPIED BANDWIDTH(99%)

4.2.1 Test Limit

26 dB Bandwidth : For reporting purposes only.

6 dB Bandwidth : Least 500kHz.

Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

26dB

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW: approximately 1% of the emission bandwidth.
3. Set the VBW>RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26dB down from the peak of the emission. Compare this with the RBW setting of the analyser. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6dB

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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 dB relative to the maximum level measured in the fundamental emission.

99%

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set center frequency to the nominal EUT channel center frequency.
3. Set span = 1.5 times to 5.0 times the OBW.
4. Set RBW = 1 % to 5% of the OBW.
5. Set VBW $\geq 3 \times$ RBW

4.2.3 Test Setup

Refer to section 1.8.

4.2.4 Test Result

Temperature: 21.5 ~ 24.7°C

Test date: January 14 ~ 29, 2026

Humidity: 50 ~ 62% RH

Tested by: Marco Chan

Occupied Bandwidth(99%)

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.600	12.200
5220	16.742	12.240
5240	16.796	12.250
5260	16.641	12.210
5300	16.688	12.220
5320	16.607	12.200
5500	16.651	12.210
5600	16.650	12.210
5700	16.643	12.210

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.696	16.29
5785	16.682	16.32
5825	16.657	16.39

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.696	12.480
5220	17.878	12.520
5240	17.882	12.520
5260	17.816	12.510
5300	17.790	12.500
5320	17.744	12.490
5500	17.725	12.490
5600	17.784	12.500
5700	17.757	12.490

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.752	17.50
5785	17.775	17.52
5825	17.773	17.57

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.156	15.580
5230	36.301	15.600
5270	36.188	15.590
5310	36.120	15.580
5510	36.185	15.590
5590	36.195	15.590
5670	36.128	15.580

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.251	36.27
5795	36.185	36.08

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.443	18.780
5290	75.562	18.780
5530	75.603	18.790
5610	75.671	18.790

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.757	75.94

26dB & 6dB Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.96	13.210
5220	22.76	13.570
5240	21.62	13.350
5260	21.12	13.250
5300	21.38	13.300
5320	20.84	13.190
5500	21.22	13.270
5600	21.34	13.290
5700	21.01	13.220

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.29	12.120
5785	16.33	12.130
5825	16.30	12.120

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.310000	< 5250
5745	5736.733075	> 5725

Note: The measurement results of all 6dBc test channels are greater than 500kHz.

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.64	13.350
5220	25.22	14.020
5240	23.94	13.790
5260	22.56	13.530
5300	21.60	13.340
5320	21.29	13.280
5500	21.14	13.250
5600	21.37	13.300
5700	21.15	13.250

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.59	12.450
5785	16.20	12.100
5825	16.42	12.150

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.880000	< 5250
5745	5736.128731	> 5725

Note: The measurement results of all 6dBc test channels are greater than 500kHz.

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.57	15.970
5230	49.17	16.920
5270	46.82	16.700
5310	39.59	15.980
5510	39.12	15.920
5590	43.81	16.420
5670	39.94	16.010

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.01	15.560
5795	35.53	15.510

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.120000	< 5250
5755	5736.889276	> 5725

Note: The measurement results of all 6dBc test channels are greater than 500kHz.

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.08	19.040
5290	80.84	19.080
5530	80.70	19.070
5610	86.89	19.390

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.32	18.770

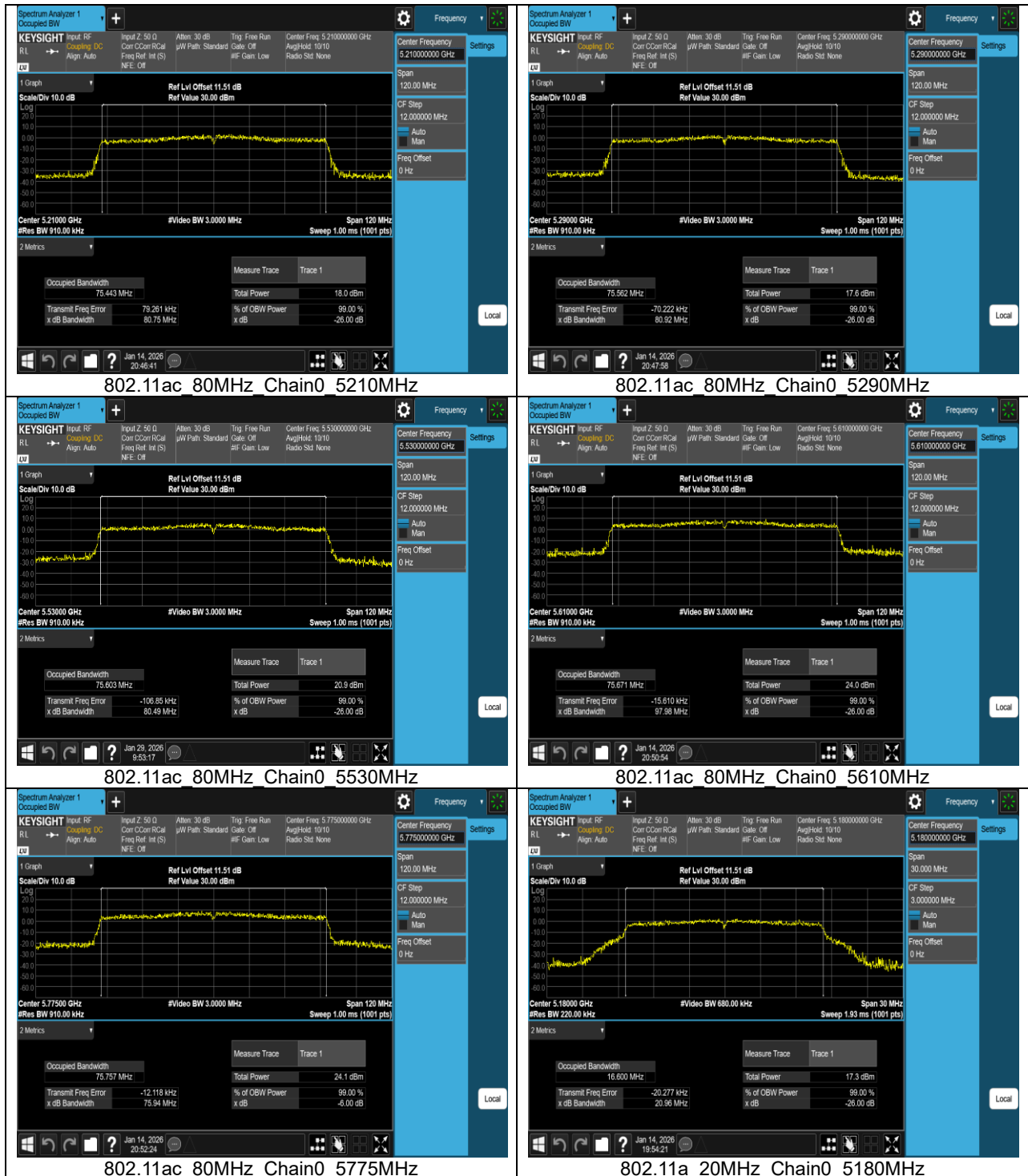
802.11ac_VHT80_Ch0

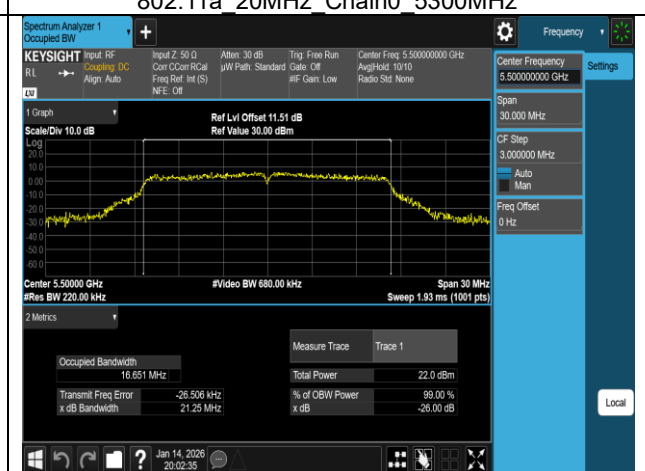
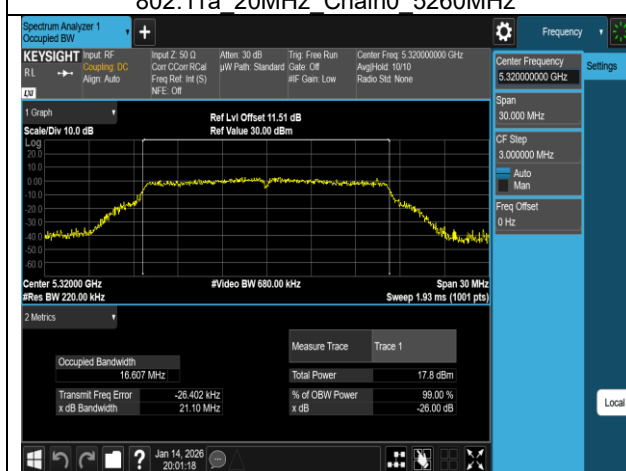
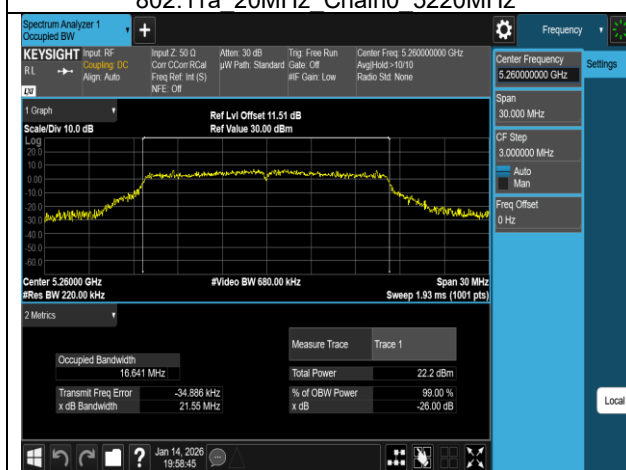
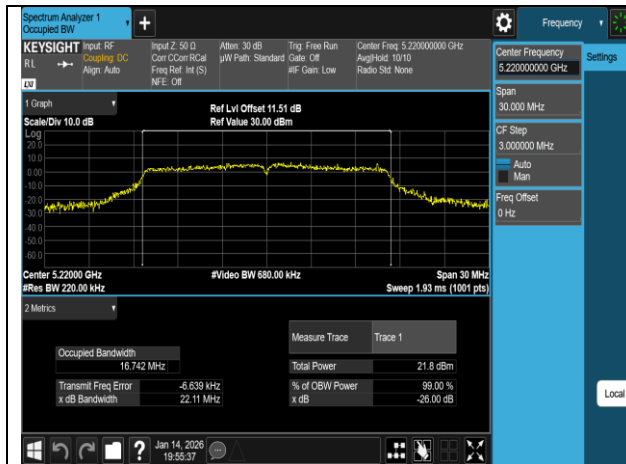
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
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5775	5737.296704	> 5725

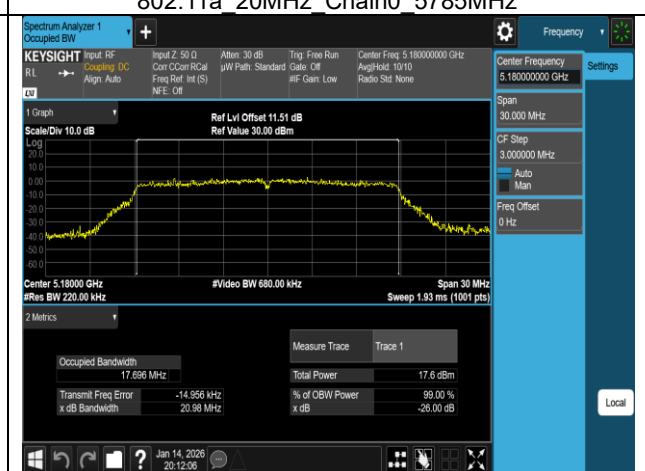
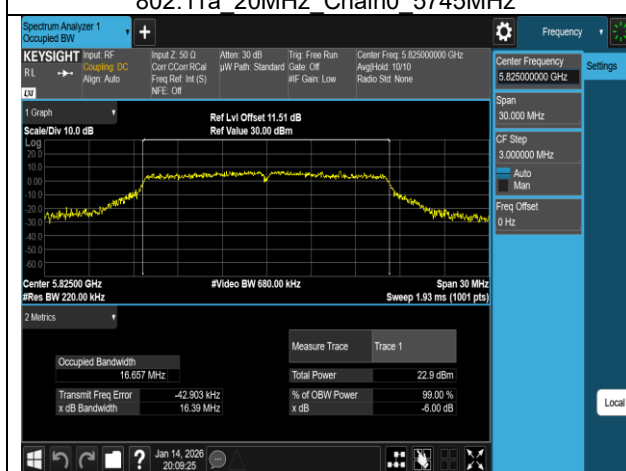
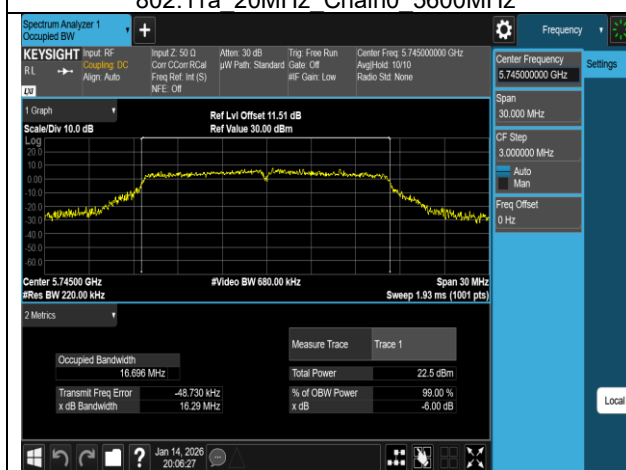
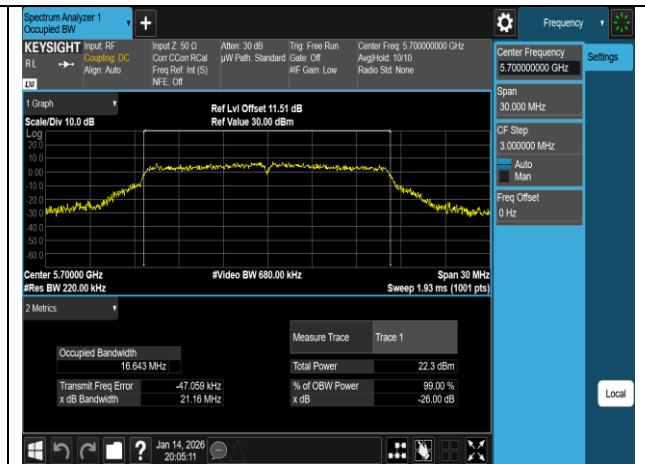
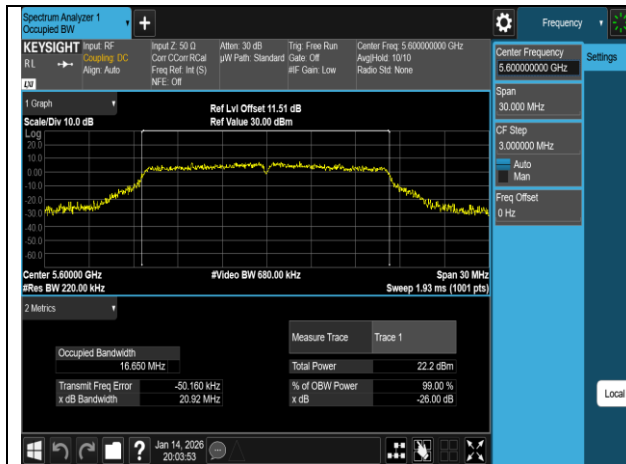
Note: The measurement results of all 6dBc test channels are greater than 500kHz.

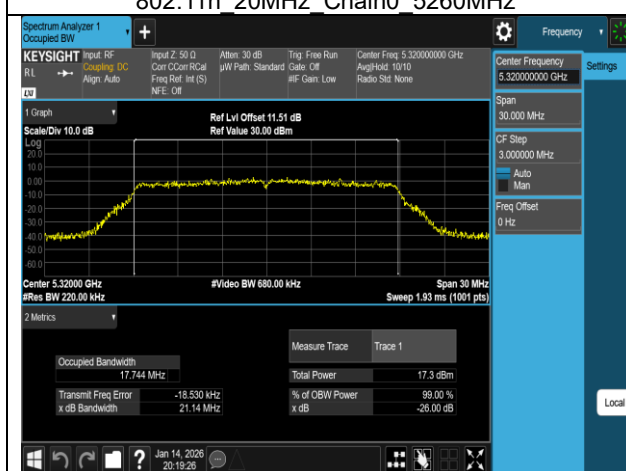
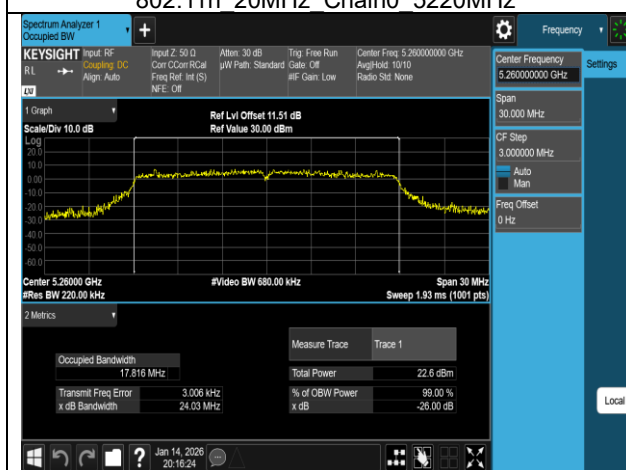
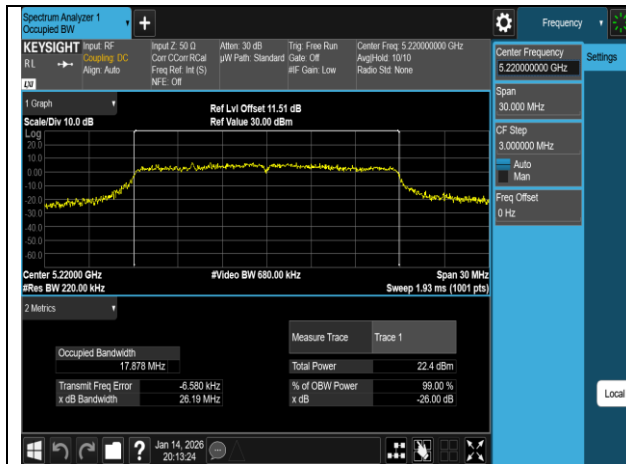
Test Data

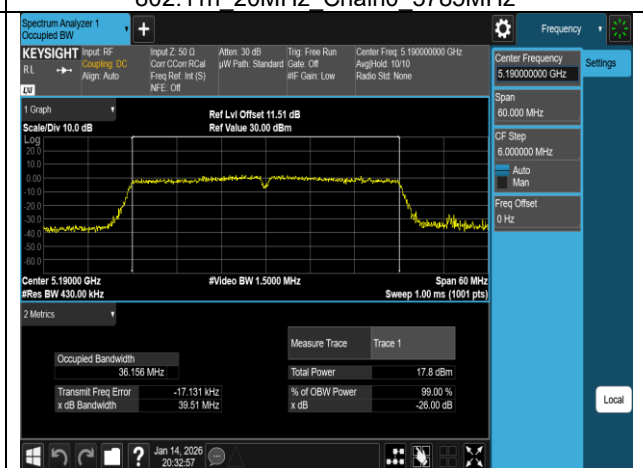
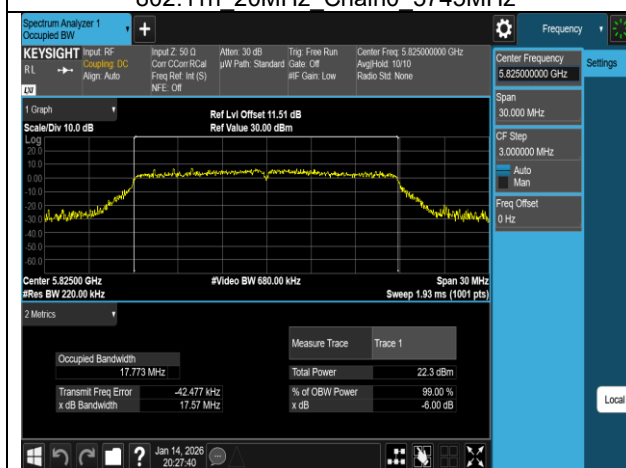
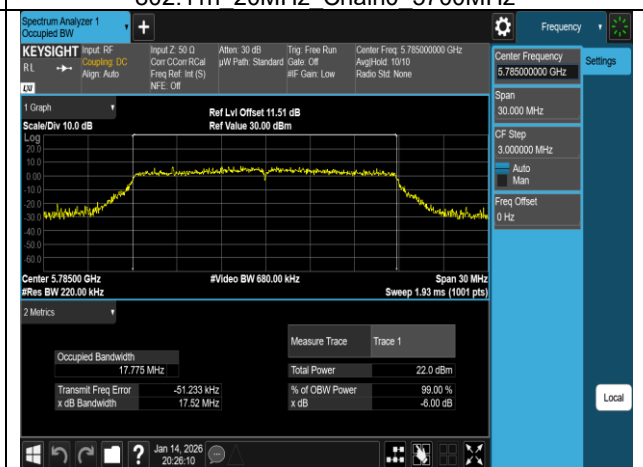
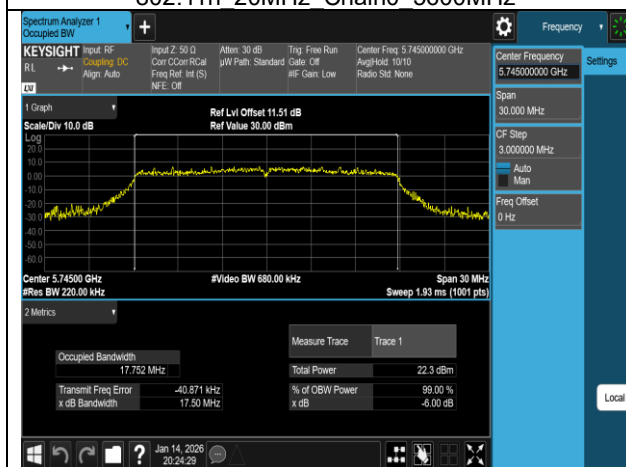
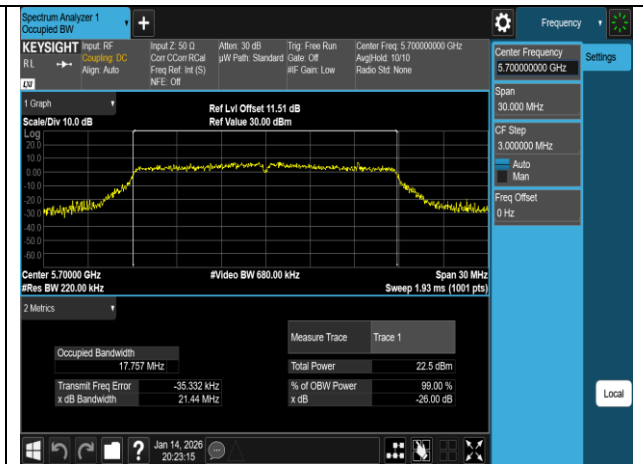
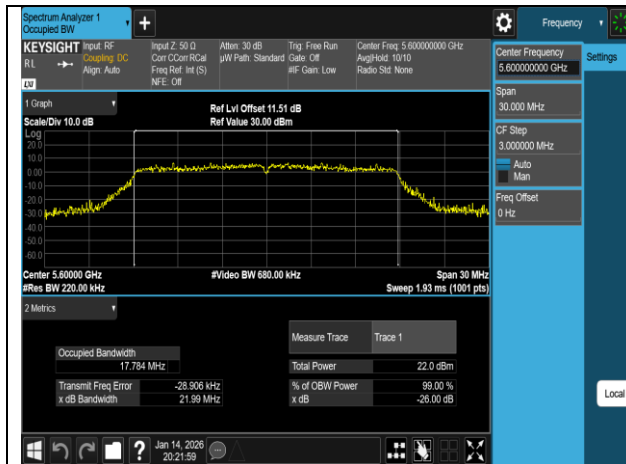
Occupied Bandwidth(99%)

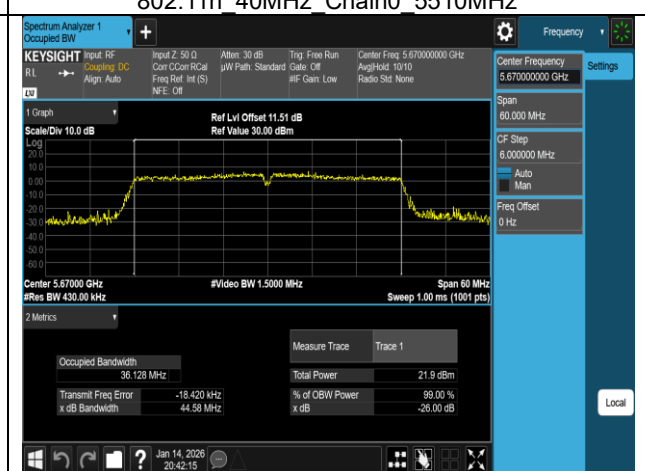
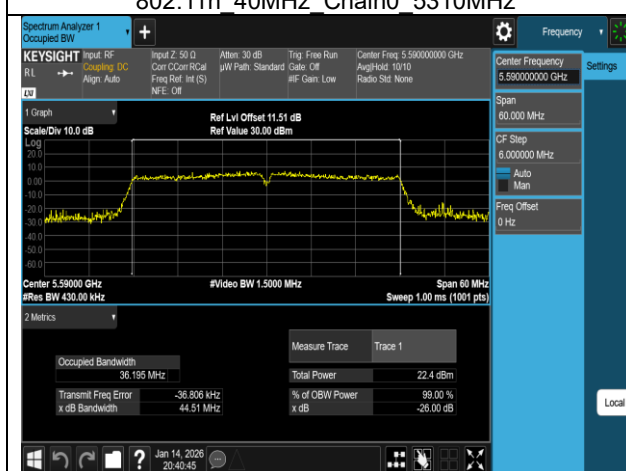
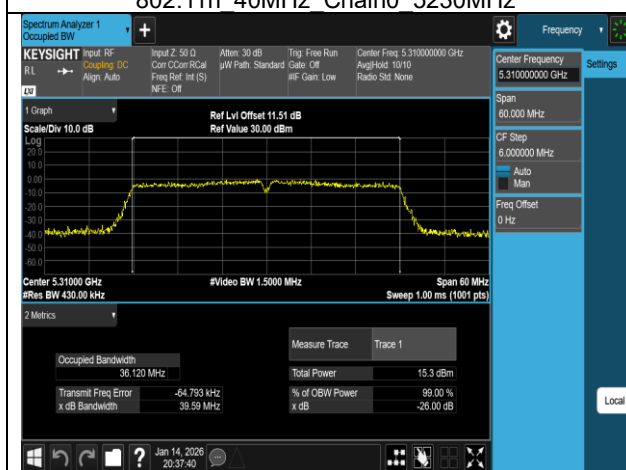
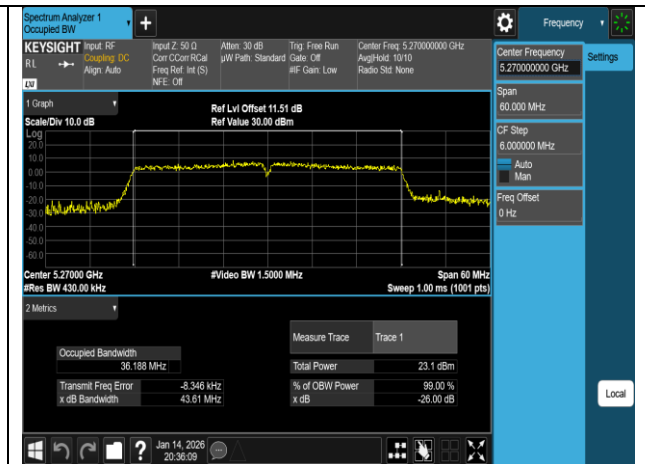
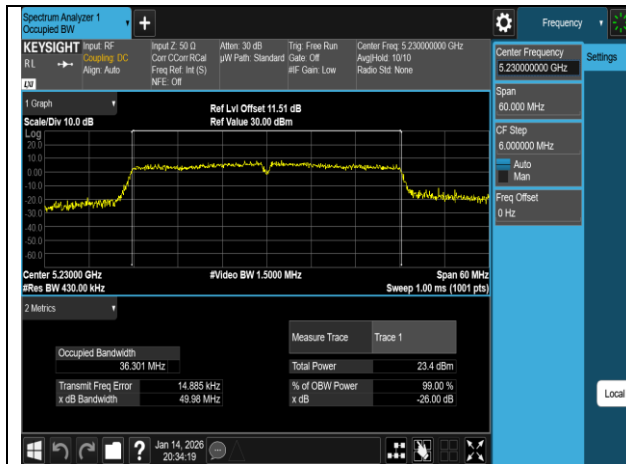


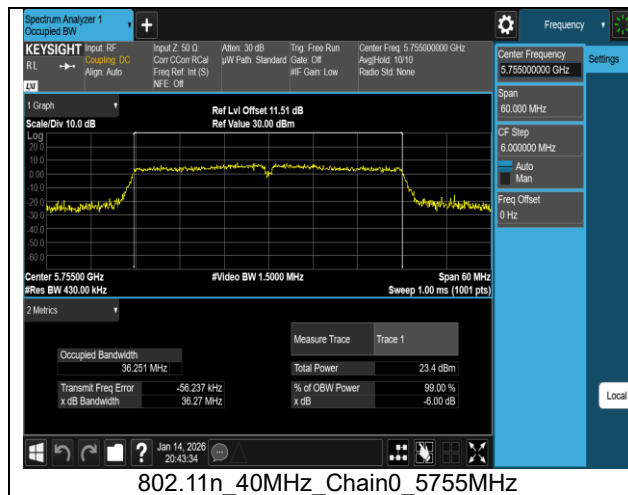




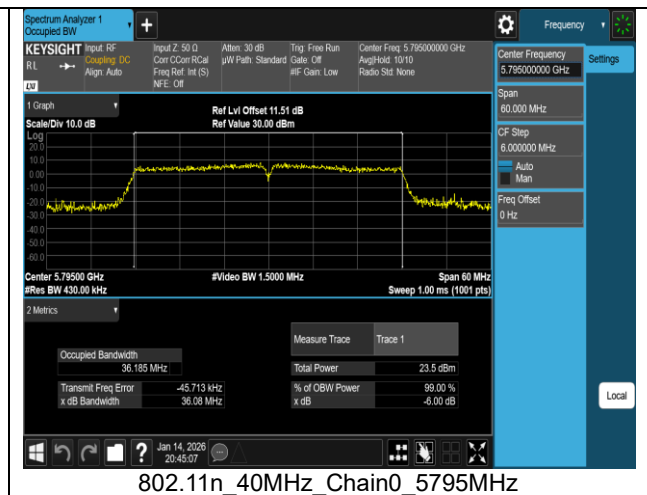








802.11n 40MHz Chain0 5755MHz



802.11n 40MHz Chain0 5795MHz

26dB & 6dB Bandwidth

