Spot Check Evaluation

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Xiaomi
MODEL NAME	:	XIG07
FCC ID	:	2AFZZPNFAR
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(F), 27(Q), 90(S) 47 CFR Part 15 Subpart C §15.247 47 CFR Part 15 Subpart E §15.407
TEST DATE(S)	:	Jul. 29, 2024 ~ Aug. 16, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

1 GENERAL DESCRIPTION **4**

1.1 Applicant 4
1.2 Manufacturer 4
1.3 Product Feature of Equipment Under Test 4
1.4 Modification of EUT 4
1.5 Testing Site 5
1.6 Test Software 5
1.7 Applicable Standards 6

2 RE-USE OF MEASURED DATA **7**

2.1 Introduction Section 7
2.2 Model Difference Information 7
2.3 Reference detail Section: 8
2.4 Spot Check Verification Data Section 9

3 LIST OF MEASURING EQUIPMENT **15**

4 MEASUREMENT UNCERTAINTY **17**

APPENDIX A. RADIATED SPURIOUS EMISSION TEST DATA

APPENDIX B. SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
442515-03	Rev. 01	Initial issue of report	Aug. 27, 2024

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	XIG07
FCC ID	2AFZZPNFAR
IMEI Code	Conducted/DFS/CBP: 861065070005062/861065070005070 Radiation: 861065070004909/861065070004917 Conduction: 861065070005807/861065070005815
HW Version	1351N12A
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS TH01-KS DFS01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

Test data subcontracted: Radiated test case of this report.

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	DFS01-KS	Sporton	Test Tools	1.0
3.	CO01-KS	AUDIX	E3	6.2009-8-24
4.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC KDB 484596 D01 Referencing Test Data v02r03
- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(F), 27(Q), 90(S)
- 47 CFR Part 15 Subpart C §15.247
- 47 CFR Part 15 Subpart E §15.407
- ANSI C63.10-2013
- ANSI C63.26-2015

2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XIG07, FCC ID: 2AFZZPNFAR) is electrically identical to the reference device (Model: 2406APNFAG, FCC ID: 2AFZZPNFAG) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

ECR Data Referencing Inquiry has been approved by FCC, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report, and for SAR Reference detail, please refer to FCC SAR report FA442515-03.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in both standalone and simultaneous transimission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: 2AFZZPNFAR .

2.2 Model Difference Information

The **main** difference between FCC ID: 2AFZZPNFAG and FCC ID: 2AFZZPNFAR is as below:

- Removed LTE Band 32/48/66, and 5G NR n2/n5/n7/n8/n12/n20/n26/n66/n38/n48
- 5GNR n41/ n77/ n78 changed from Power class 2 to Power class 3
- Added LTE Band 41 Other PA and Band 41_CA/Band 42_CA
- Removed LTE Inter_CA and band7C/38C

Other differences and all the details of similarity and difference can be found in the confidential documents (2AFZZPNFAR Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Reference on test	Reference Title	FCC ID Filling (Variant)	Test on the variant	Data Referencing (Y/N)
15C	DSS (BR/EDR)	2400~2483.5	2AFZZPNFAG	Full test	FR442515A	2AFZZPNFAR	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	2AFZZPNFAG	Full test	FR442515B	2AFZZPNFAR	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	2AFZZPNFAG	Full test	FR442515C	2AFZZPNFAR	Spot check	Y, All test items
15E	U-NII	5180~5240	2AFZZPNFAG	Full test	FR442515E	2AFZZPNFAR	Spot check, Full test on Co-location RSE	Y, except for Co-location RSE
		5260~5320	2AFZZPNFAG	Full test	FR442515E	2AFZZPNFAR	Spot check, Full test on Co-location RSE	Y, except for Co-location RSE
		5500~5720	2AFZZPNFAG	Full test	FR442515E	2AFZZPNFAR	Spot check, Full test on Co-location RSE	Y, except for Co-location RSE
		5745~5825	2AFZZPNFAG	Full test	FR442515E	2AFZZPNFAR	Spot check, Full test on Co-location RSE	Y, except for Co-location RSE
		5260~5320 5500~5720	2AFZZPNFAG	Full test	FZ442515	2AFZZPNFAR	Spot check	Y, All test items
	6XD	5925~7125	2AFZZPNFAG	Full test	FR442515F	2AFZZPNFAR	Spot check, Full test on Co-location RSE	Y, except for Co-location RSE
22, 24, 27, 90,	PCE (GSM)	GSM 850/1900	2AFZZPNFAG	Full test	FG442515A	2AFZZPNFAR	Spot check	Y, All test items
	PCE (WCDMA)	Band II, IV, V	2AFZZPNFAG	Full test	FG442515A	2AFZZPNFAR	Spot check	Y, All test items
	PCE (LTE)	B2/5/7/12/13/17/26/38/41/42	2AFZZPNFAG	Full test	FG442515B FG442515C FG442515E	2AFZZPNFAR	Spot check	Y, All test items
	PCE (LTE)	B26 (90S)	2AFZZPNFAG	Full test	FG442515D	2AFZZPNFAR	Spot check	Y, All test items

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit

2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.
All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = | V_{dB} – R_{dB} | \leq 3 \text{ dB} \quad (1)$$

V_{dB}, the variant spot-check level
R_{dB}, the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} =|C_{dB} – R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation ddB from the reference data satisfies the following condition:

$$d_{dB} = | V_{dB} – R_{dB} | \leq (3 + M_{dB} /20) \text{ dB , for } 0 \leq M_{dB} \leq 60 \text{ dB}$$

$$d_{dB} = | V_{dB} – R_{dB} | = 6 \text{ dB} \quad \text{, for } M_{dB} > 60 \text{ dB} \quad (2)$$

where “| |” is the absolute value of the measured quantity.
When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for spot check for each rule entry and technology is listed as below:

Mode	Test Item	2AFZZPNFAG Parent Worst mode Test Result	2AFZZPNFAR Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
BT 1Mbps (DH5-CH00)	Number of Channels	79	79	0	3
	Hopping Channel Separation	1.004	1.026	0.022	3
	Dwell Time of Each Channel	0.31	0.31	0	3
	20dB Bandwidth	0.86	0.86	0	3
	99% Bandwidth	0.755	0.755	0	3
	Conducted Band Edges	-44.18	-43.89	0.29	3
	Conducted Spurious Emission	-36.35	-38.22	1.87	3
	Radiated Band Edges and Radiated Spurious Emission	53.17	50.20	2.97	3
BT	AC Conducted Emission	43.05	42.09	0.96	3
BLE 1Mbps (CH00)	6dB Bandwidth	0.70	0.67	0.03	3
	99% Bandwidth	1.039	1.039	0	3
	Power Spectral Density	-1.98	-2.11	0.13	3
	Conducted Band Edges and Spurious Emission	-43.4	-42.34	1.06	3
	Conducted Spurious Emission	-35.58	-36.17	0.59	3
	Radiated Band Edges and Spurious Emission	41.20	38.78	2.42	3
BLE	AC Conducted Emission	43.05	42.09	0.96	3
WIFI 2.4G (802.11b CH1)	6dB Bandwidth	7.56	8.00	0.44	3
	99% Bandwidth	12.867	12.867	0	3
	Power Spectral Density	0.54	-0.03	0.57	3
	Conducted Band Edges and Spurious Emission	-29.95	-31.26	1.31	3
	Conducted Spurious Emission	-44.94	-44.05	0.89	3
	Radiated Band Edges and Spurious Emission	50.69	48.39	2.30	3
WLAN 2.4G	AC Conducted Emission	43.05	42.09	0.96	3

Mode	Test Item	2AFZZPNFAG Parent Worst mode Test Result	2AFZZPNFAR Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
WIFI 5G (802.11a CH149)	26dB Emission Bandwidth	26.00	26.60	0.6	3
	99% Occupied Bandwidth	17.66	17.82	0.16	3
	Power Spectral Density	8.92	8.80	0.12	3
	Radiated Band Edges and Spurious Emission	65.27	63.48	1.79	3
WLAN 5G	AC Conducted Emission	26.67	26.65	0.02	3
WLAN 5G	DFS	0.879629	0.89923	0.019601	3
WIFI 6G UNII-8 (802.11ax HE80 CH151 6705MHz)	26dB Emission Bandwidth	83.63	84.80	1.17	3
	99% Occupied Bandwidth	78.322	77.943	0.379	3
	Fundamental Maximum EIRP	14.99	14.69	0.3	3
	Fundamental Power Spectral Density	-1.57	-2.53	0.96	3
	In-Band Emissions	-47.51	-46.27	1.24	3
	Contention Based Protocol	-69.25	-69.14	0.11	3
	Radiated Band Edges and Spurious Emission	62.27	61.03	1.24	3
WLAN 6G	AC Conducted Emission	33.47	33.38	0.09	3

Mode	Test Item	2AFZZPNFAG Parent Worst mode Test Result	2AFZZPNFAR Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Part 22/24/27 (90S-LTE Band 26)	Peak-to-Average Ratio	3.8	4.52	0.72	3
	Occupied Bandwidth	13.43	13.46	0.03	3
	Conducted Band Edge	14.11	16.54	2.43	3
	Conducted Spurious Emission	-41.74	-42.37	0.63	3
	Frequency Stability	0.0016	0.0023	0.0007	3

Test Item	Mode	2AFZZPNFAG Parent Worst mode Test Result	2AFZZPNFAR Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	15.73	15.42	0.31	3
	BLE 1Mbps	15.49	15.25	0.24	3
	BLE 2Mbps	15.29	14.95	0.34	3
	11b, 2.4GHz	25.18	24.97	0.21	3
	11g, 2.4GHz	28.96	28.73	0.23	3
	11n HT20, 2.4GHz	28.82	28.72	0.1	3
	11n HT40, 2.4GHz	26.12	26.02	0.1	3
	11ax HE20, 2.4GHz	29.08	28.90	0.18	3
	11ax HE40, 2.4GHz	27.35	27.31	0.04	3
	11a, 5.2GHz	20.68	20.10	0.58	3
	11a, 5.3GHz	20.39	19.95	0.44	3
	11a, 5.5GHz	21.14	20.08	1.06	3
	11a, 5.8GHz	22.19	21.76	0.43	3
	11n HT20, 5.2GHz	20.27	19.88	0.39	3
	11n HT20, 5.3GHz	20.28	19.89	0.39	3
	11n HT20, 5.5GHz	21.13	20.68	0.45	3
	11n HT20, 5.8GHz	20.94	20.55	0.39	3
	11ac VHT20, 5.2GHz	20.37	19.91	0.46	3
	11ac VHT20, 5.3GHz	20.40	19.94	0.46	3
	11ac VHT20, 5.5GHz	21.24	20.80	0.44	3
	11ac VHT20, 5.8GHz	21.06	20.64	0.42	3
	11ax HE20, 5.2GHz	20.45	19.98	0.47	3
	11ax HE20, 5.3GHz	20.49	20.09	0.4	3
	11ax HE20, 5.5GHz	21.31	20.76	0.55	3
	11ax HE20, 5.8GHz	21.14	20.72	0.42	3
	11n HT40, 5.2GHz	19.79	19.41	0.38	3
	11n HT40, 5.3GHz	19.46	19.22	0.24	3
	11n HT40, 5.5GHz	20.84	20.31	0.53	3
	11n HT40, 5.8GHz	20.19	20.02	0.17	3
	11ac VHT40, 5.2GHz	19.84	19.31	0.44	3
	11ac VHT40, 5.3GHz	19.51	19.11	0.4	3
	11ac VHT40, 5.5GHz	20.90	20.52	0.38	3
	11ac VHT40, 5.8GHz	20.26	19.92	0.34	3
	11ax HE40, 5.2GHz	20.12	19.72	0.4	3
	11ax HE40, 5.3GHz	20.23	19.85	0.38	3
	11ax HE40, 5.5GHz	21.19	20.80	0.39	3
	11ax HE40, 5.8GHz	20.79	20.25	0.54	3
	11ac VHT80, 5.2GHz	16.80	16.34	0.46	3
	11ac VHT80, 5.3GHz	18.31	17.95	0.36	3
	11ac VHT80, 5.5GHz	19.75	19.35	0.4	3
	11ac VHT80, 5.8GHz	19.11	18.77	0.34	3
	11ax HE80, 5.2GHz	16.91	16.27	0.64	3
	11ax HE80, 5.3GHz	18.92	18.38	0.54	3
	11ax HE80, 5.5GHz	21.11	20.58	0.53	3
	11ax HE80, 5.8GHz	20.61	20.09	0.52	3
	11ac VHT160, 5.3GHz	15.44	14.84	0.6	3
	11ac VHT160, 5.5GHz	15.40	14.79	0.61	3
	11ax HE160, 5.3GHz	15.51	14.80	0.71	3
	11ax HE160, 5.5GHz	15.47	14.65	0.82	3
	6E 11A B5	6.91	6.58	0.33	3

	6E 11A B6	8.80	8.42	0.38	3
	6E 11A B7	11.00	10.81	0.19	3
	6E 11A B8	13.06	12.83	0.23	3
	6E 11AX20 B5	7.66	7.29	0.37	3
	6E 11AX20 B6	9.29	9.05	0.24	3
	6E 11AX20 B7	11.67	11.36	0.31	3
	6E 11AX20 B8	13.45	13.15	0.3	3
	6E 11AX40 B5	10.82	10.46	0.36	3
	6E 11AX40 B6	12.45	12.16	0.29	3
	6E 11AX40 B7	14.51	14.25	0.26	3
	6E 11AX40 B8	16.65	16.42	0.23	3
	6E 11AX80 B5	13.76	13.44	0.32	3
	6E 11AX80 B6	16.21	16.02	0.19	3
	6E 11AX80 B7	18.59	18.29	0.3	3
	6E 11AX80 B8	17.95	17.73	0.22	3
	6E 11AX160 B5	17.04	16.58	0.46	3
	6E 11AX160 B6	17.00	16.69	0.31	3
	6E 11AX160 B7	17.23	16.95	0.28	3
	6E 11AX160 B8	17.01	16.80	0.21	3
	GSM 850	32.68	32.32	0.36	3
	GSM 1900	30.31	29.48	0.83	3
	WCDMA 850	23.95	23.83	0.12	3
	WCDMA 1900	24.06	23.67	0.39	3
	WCDMA1700	23.98	23.85	0.13	3
	LTE B2	24.15	24.08	0.07	3
	LTE B5	24.86	24.78	0.08	3
	LTE B26	25.05	24.80	0.25	3
	LTE B26-90S	25.05	24.76	0.29	3
	LTE B7	25.26	25.05	0.21	3
	LTE B12	24.51	24.45	0.06	3
	LTE B17	24.50	24.42	0.08	3
	LTE B13	25.09	24.01	1.08	3
	LTE B38	25.05	25.02	0.03	3
	LTE B41	25.21	25.20	0.01	3
	LTE B42	25.35	25.31	0.04	3

Conclusion:
All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

The same detection mechanism/software/antenna gain is used in the variant of DFS/CBP. Hence, all test cases refer to parent report.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.

3 List of Measuring Equipment

For BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Aug. 08, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Aug. 08, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Aug. 07, 2024~ Aug. 16, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Aug. 07, 2024~ Aug. 16, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 27, 2023	Aug. 07, 2024~ Aug. 16, 2024	Jul. 26, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 07, 2024~ Aug. 16, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Aug. 07, 2024~ Aug. 16, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09,2024	Aug. 07, 2024~ Aug. 16, 2024	Apr. 08,2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Aug. 07, 2024~ Aug. 16, 2024	Apr. 08,2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18,2023	Aug. 07, 2024~ Aug. 16, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 18, 2023	Aug. 07, 2024~ Aug. 16, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Aug. 07, 2024~ Aug. 16, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Aug. 07, 2024~ Aug. 16, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 07, 2024~ Aug. 16, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 07, 2024~ Aug. 16, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jul. 29, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jul. 29, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jul. 29, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jul. 29, 2024	Oct. 10, 2024	Conduction (CO01-KS)
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 02, 2024	Aug, 16, 2024	Jan. 01, 2025	Conducted (DFS01-KS)
MXG-B RF Vector Signal Genertor	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	Apr 17, 2024	Aug, 16, 2024	Apr 16, 2025	Conducted (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Aug, 16, 2024	NCR	Conducted (DFS01-KS)
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 02, 2024	Aug, 16, 2024	Jan. 01, 2025	CBP (DFS01-KS)
MXG-B RF Vector Signal Genertor	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	Apr 17, 2024	Aug, 16, 2024	Apr 16, 2025	CBP (DFS01-KS)

NCR: No Calibration Required.

For WWAN Bands:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Aug. 07, 2024~ Aug. 08, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Aug. 07, 2024~ Aug. 08, 2024	NCR	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Aug. 07, 2024~ Aug. 08, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Aug. 07, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 27, 2023	Aug. 07, 2024	Jul. 26, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2023	Aug. 07, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 07, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Aug. 07, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Aug. 07, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Aug. 07, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Aug. 07, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Aug. 07, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Aug. 07, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 07, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 07, 2024	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required.

4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement (BT/WIFI2.4G/5G)

Conducted Spurious Emission & Bandedge	**±2.22 dB**
Occupied Channel Bandwidth	**±0.1%**
Conducted Power	**±0.50 dB**
Conducted Power Spectral Density	**±0.90 dB**
Frequency	**±0.4 ppm**

Uncertainty of Conducted Measurement (WIFI 6G)

Conducted Spurious Emission & Bandedge	**±2.22 dB**
Occupied Channel Bandwidth	**±0.1%**
Conducted Power	**±0.50 dB**
Conducted Power Spectral Density	**±0.90 dB**
Frequency	**±0.4 Hz**
Conducted Generated signal Levels	**±0.56 dB**
Conducted Time	**0.54%**

Uncertainty of Conducted Measurement (DFS)

Test Item	Uncertainty
Conducted Generated signal Levels	**±0.56 dB**
Conducted Time	**0.38%**

Uncertainty of Conducted Measurement (WWAN)

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 ppm

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB

03CH01-SZ(BT/WIF):

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB

03CH01-SZ(WWAN):

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.48 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.53 dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.02 dB**

-THE END-

Appendix A. Radiated Spurious Emission Test Data

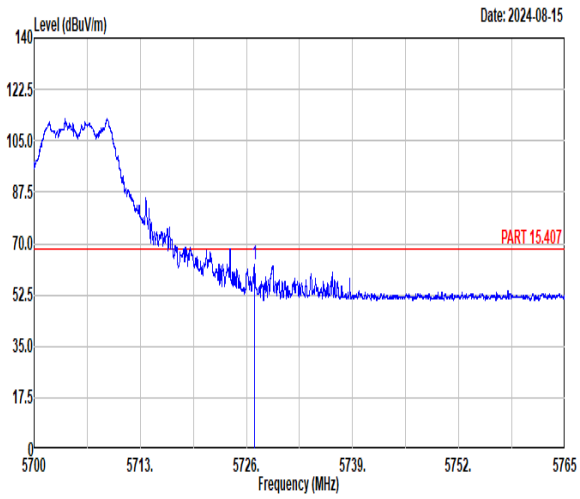
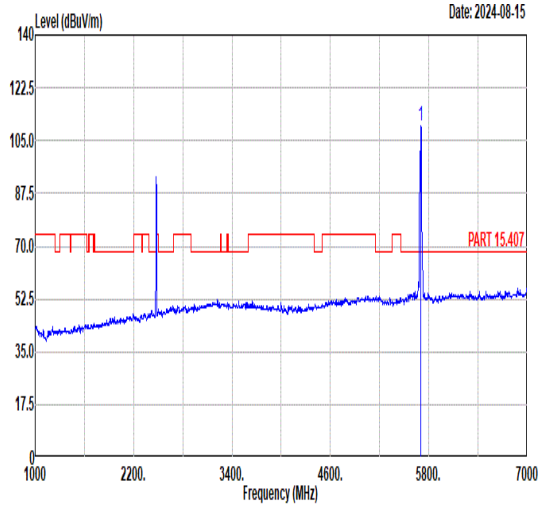
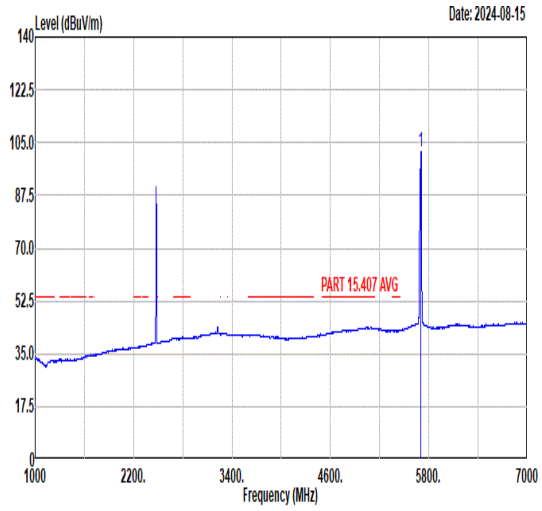
Test Engineer :	Zhaohui Liang	Relative Humidity :	50%
		Temperature :	20-22℃

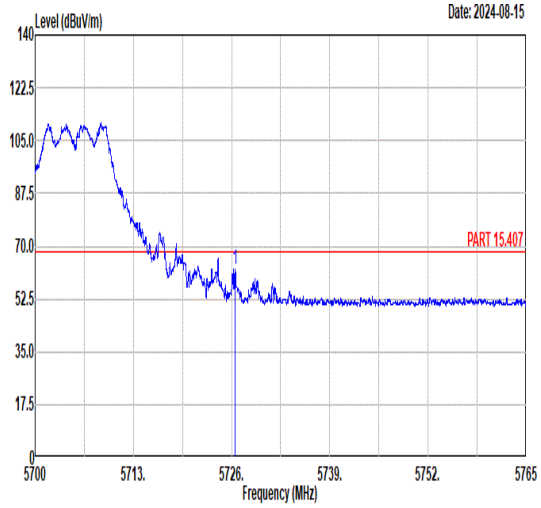
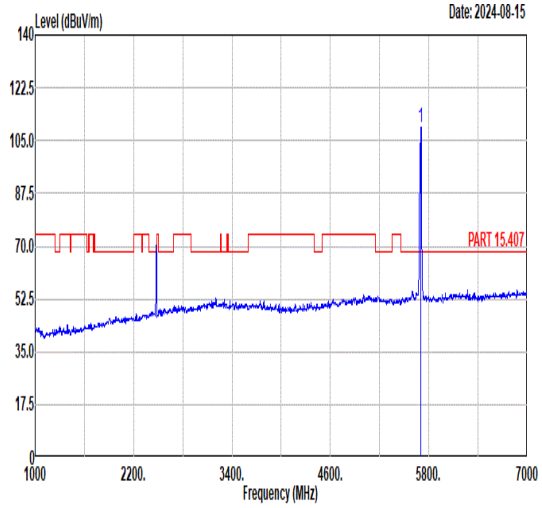
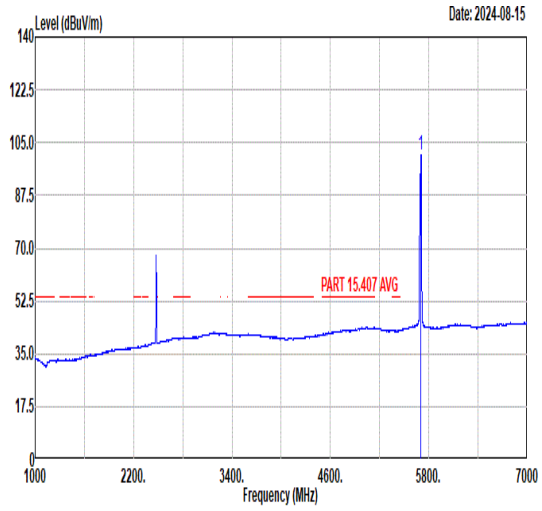
Radiated Spurious Emission Test Modes

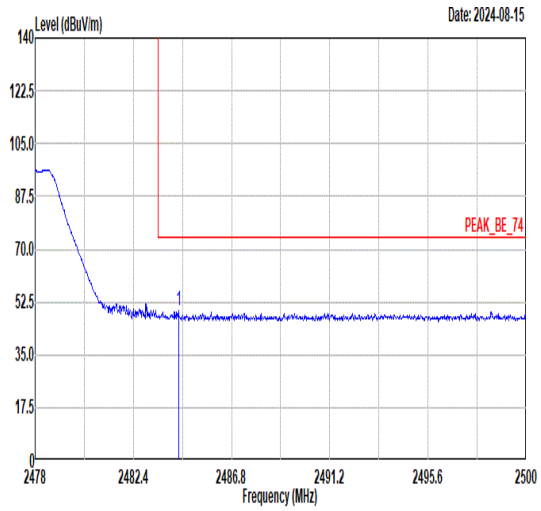
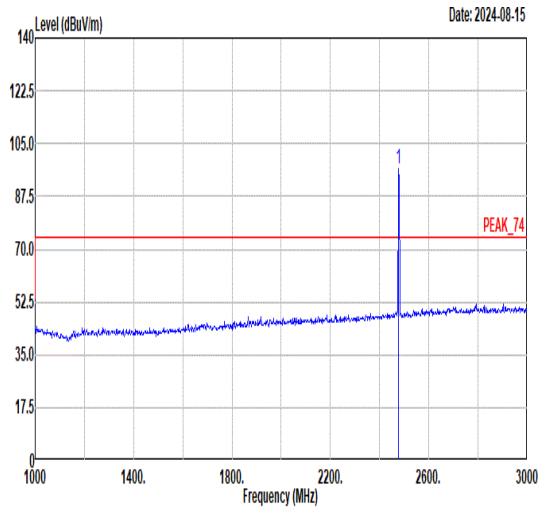
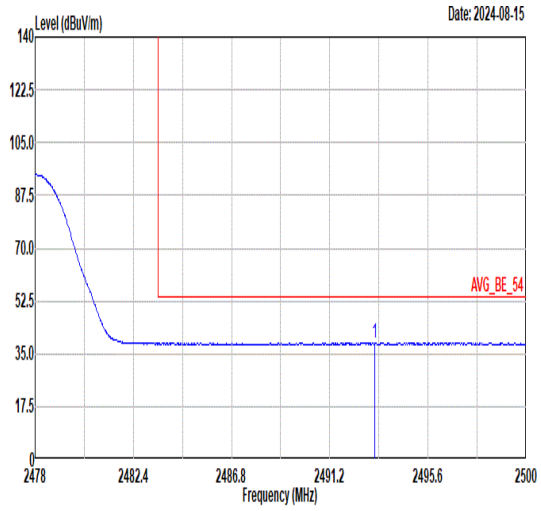
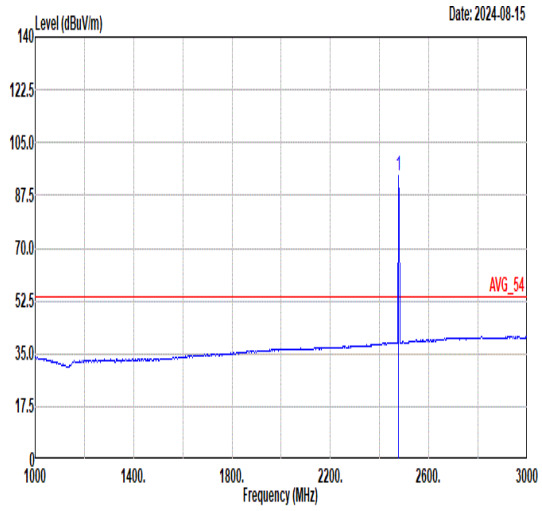
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	Co-location	U-NII-2C	CDD 6+17	802.11ax HE20	140	5700	MCS0	RU106/54	-
		-	16	Bluetooth-LE	38	2478	2Mbps	–	–
		WWAN	0	LTE B13					
Mode 2	Co-location	U-NII-2C	CDD 6+17	802.11ax HE20	140	5700	MCS0	RU106/54	-
		2.4G WIFI	CDD 7+16	802.11g	11	2462	6Mbps	–	–
		WWAN	0	LTE B13					
Mode 3	Co-location	6G WIFI	CDD 6+17	802.11ax HE40	227	7085	MCS0	Full RU	-
		-	16	Bluetooth-LE	38	2478	2Mbps	–	–
		WWAN	0	LTE B13					
Mode 4	Co-location	6G WIFI	CDD 6+17	802.11ax HE40	227	7085	MCS0	Full RU	-
		2.4G WIFI	CDD 7+16	802.11g	11	2462	6Mbps	–	–
		WWAN	0	LTE B13					

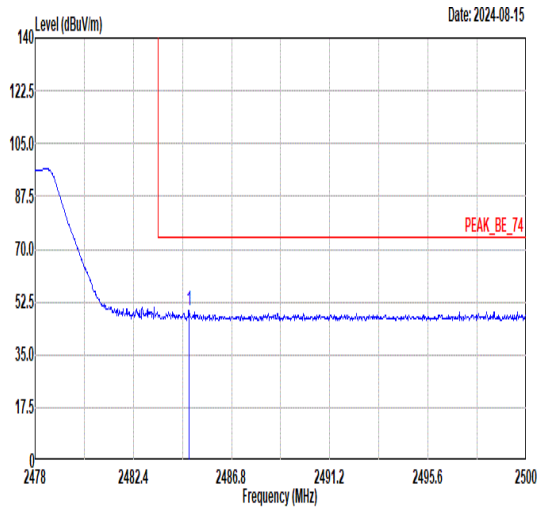
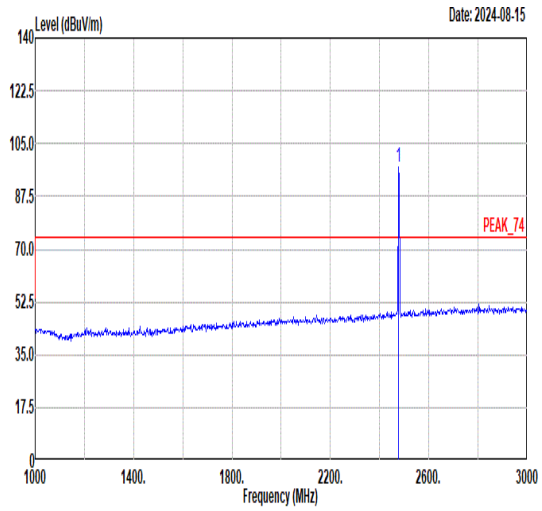
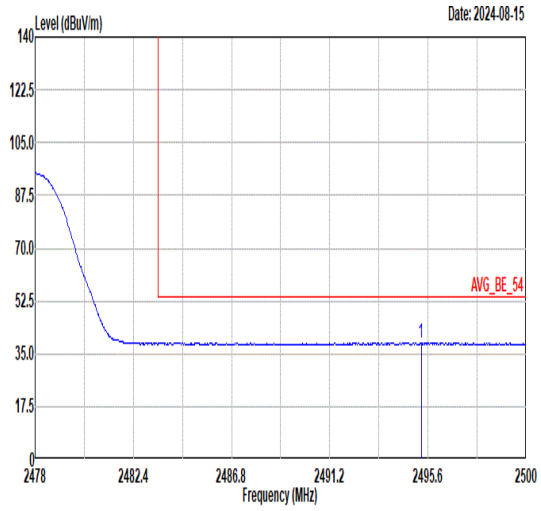
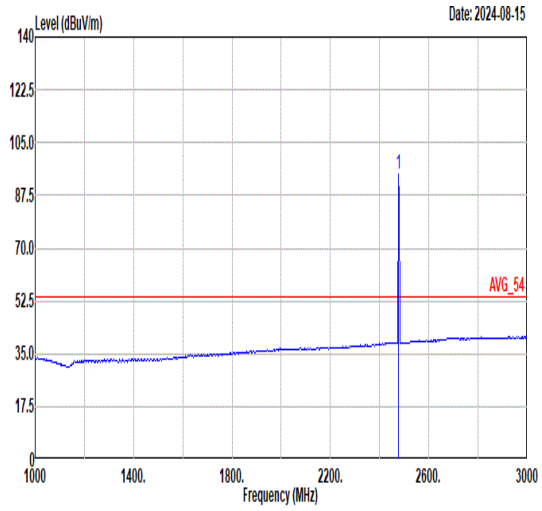
Summary of each worse mode

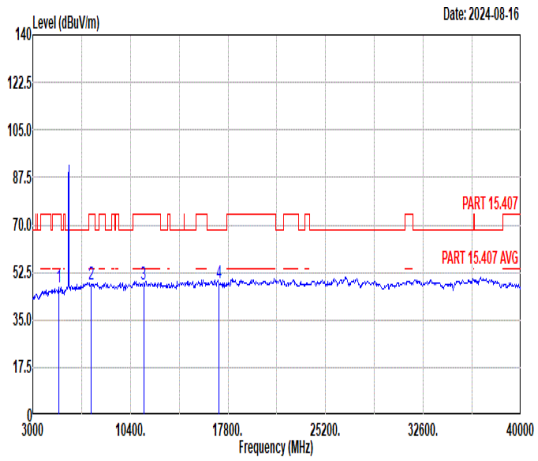
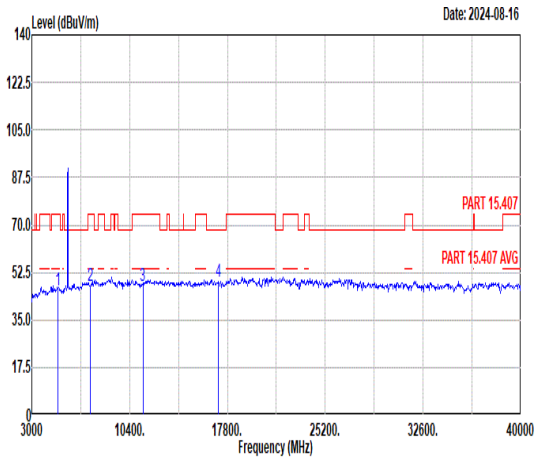
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ax HE20	140	5726.94	62.80	68.30	-5.50	H	PEAK	Pass	Band Edge
	802.11ax HE20	140	17100.00	49.06	68.30	-19.24	V	Peak	Pass	Harmonic
	802.11ax HE20	140	938.89	30.60	46.00	-15.40	H	Peak	Pass	LF
2	802.11ax HE20	140	5730.26	61.32	68.30	-6.98	V	PEAK	Pass	Band Edge
	802.11ax HE20	140	17100.00	49.35	68.30	-18.95	H	Peak	Pass	Harmonic
3	802.11ax HE40	227	7332.05	46.02	54.00	-7.98	H	AVERAGE	Pass	Band Edge
	802.11ax HE40	227	14170.00	49.74	88.20	-38.46	H	Peak	Pass	Harmonic
	802.11ax HE40	227	932.10	30.85	46.00	-15.15	H	Peak	Pass	LF
4	802.11ax HE40	227	7276.76	45.90	54.00	-8.10	H	AVERAGE	Pass	Band Edge
	802.11ax HE40	227	14170.00	48.53	88.20	-39.67	V	Peak	Pass	Harmonic

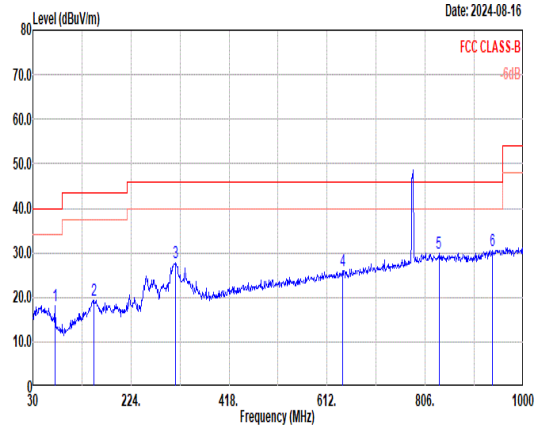
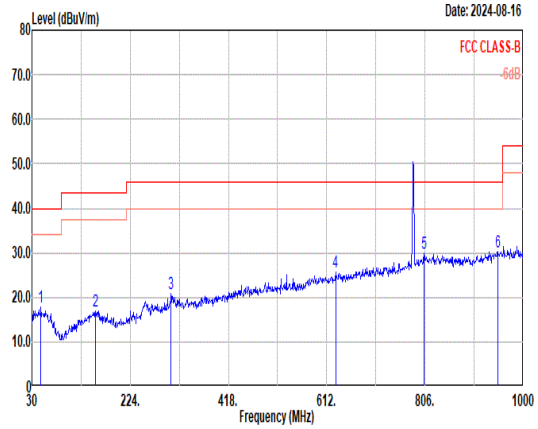
Mode	1	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.94 62.80 68.30 -5.50 48.42 35.12 11.65 32.39 100 135 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 109.85 ------ ------ 95.48 35.08 11.66 32.37 100 135 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 101.83 ------ ------ 87.46 35.08 11.66 32.37 100 135 AVERAGE

Mode	1	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	CDD 6+17	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5726.49 62.41 68.30 -5.89 48.03 35.12 11.65 32.39 276 215 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 109.50 ------ ------ 95.12 35.09 11.66 32.37 276 215 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 100.78 ------ ------ 86.41 35.08 11.66 32.37 276 215 AVERAGE

Mode	1	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	16	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2484.42 49.52 74.00 -24.48 41.27 32.47 7.88 32.10 321 110 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 96.67 ------ ------ 88.44 32.45 7.87 32.09 321 110 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2493.20 38.60 54.00 -15.40 30.32 32.49 7.89 32.10 321 110 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 94.17 ------ ------ 85.94 32.45 7.87 32.09 321 110 AVERAGE

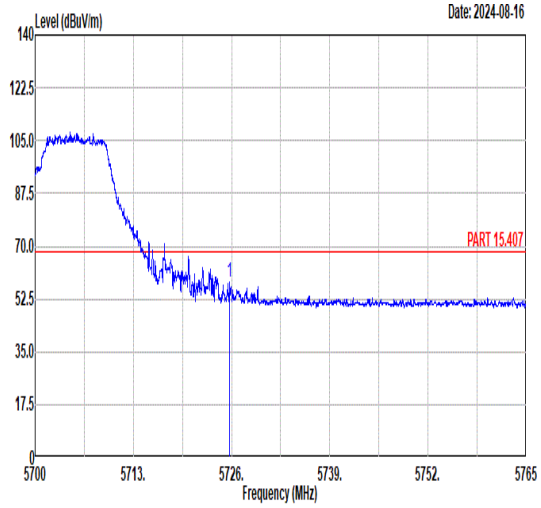
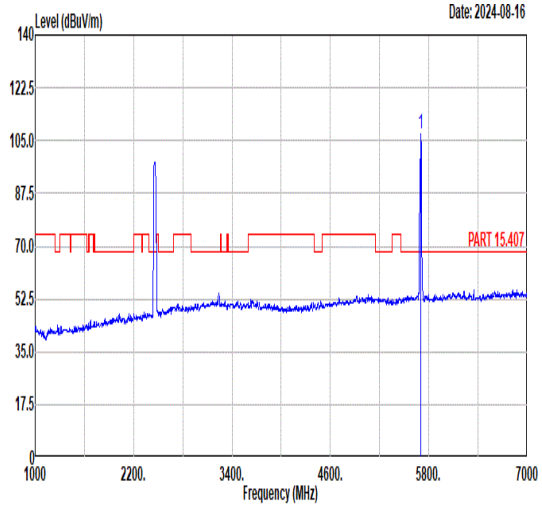
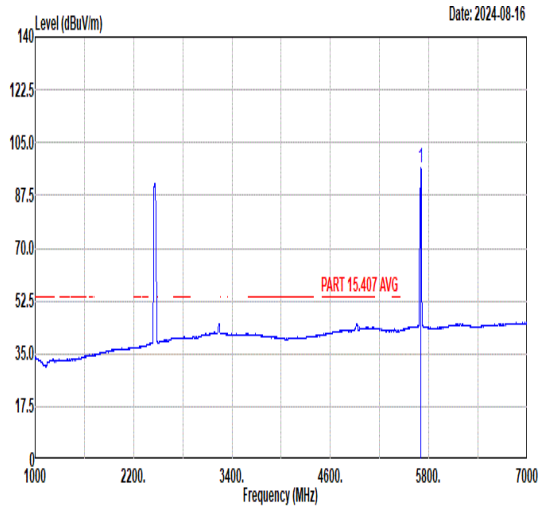
Mode	1	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	16	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2484.89 49.50 74.00 -24.50 41.25 32.47 7.88 32.10 291 234 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 97.22 ------ ------ 88.99 32.45 7.87 32.09 291 234 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2495.29 38.62 54.00 -15.38 30.34 32.49 7.89 32.10 291 234 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 94.75 ------ ------ 86.52 32.45 7.87 32.09 291 234 AVERAGE

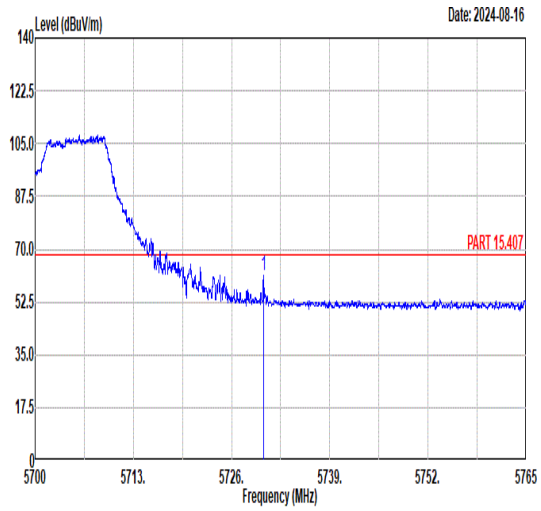
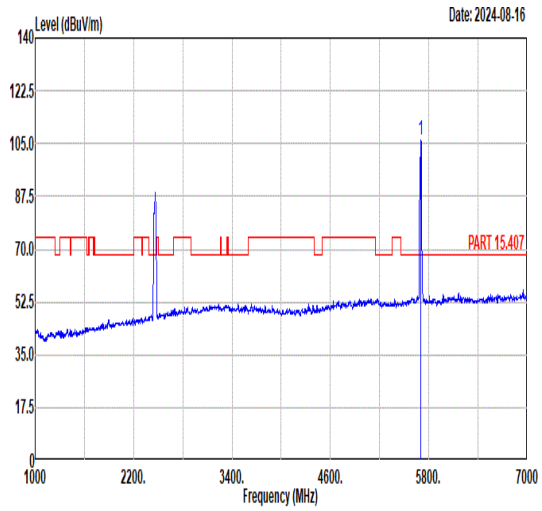
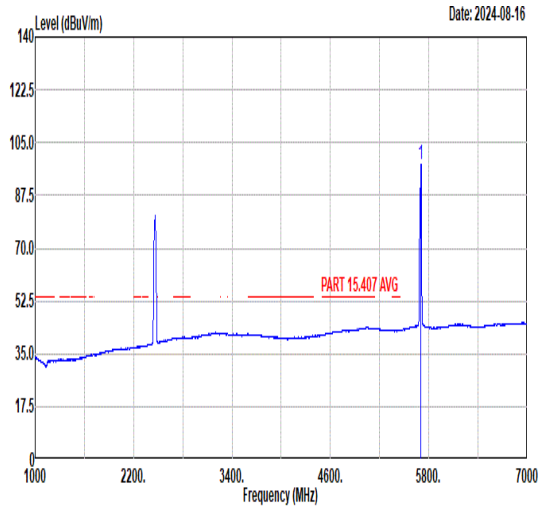
Mode	1	
	Harmonic	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4956.00 47.00 74.00 -27.00 52.51 34.88 11.13 51.52 -- -- Peak 2 7434.00 47.82 74.00 -26.18 49.65 36.37 12.99 51.19 -- -- Peak 3 11400.00 48.19 74.00 -25.81 44.41 39.72 14.78 50.72 -- -- Peak 4 17100.00 48.69 68.30 -19.61 40.50 42.46 17.53 51.80 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4956.00 45.82 74.00 -28.18 51.33 34.88 11.13 51.52 -- -- Peak 2 7434.00 47.73 74.00 -26.27 49.56 36.37 12.99 51.19 -- -- Peak 3 11400.00 47.37 74.00 -26.63 43.59 39.72 14.78 50.72 -- -- Peak 4 17100.00 49.06 68.30 -19.24 40.87 42.46 17.53 51.80 -- -- Peak

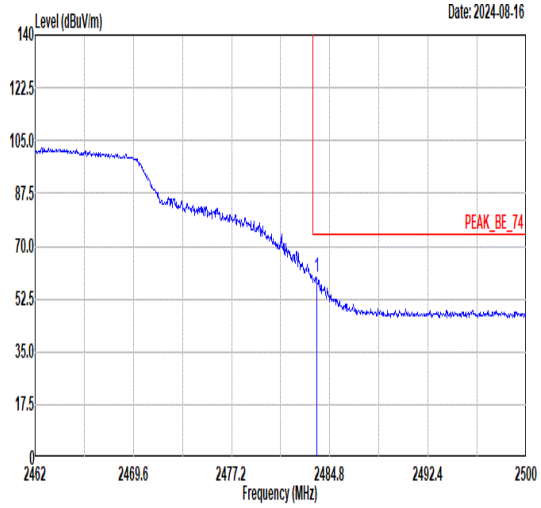
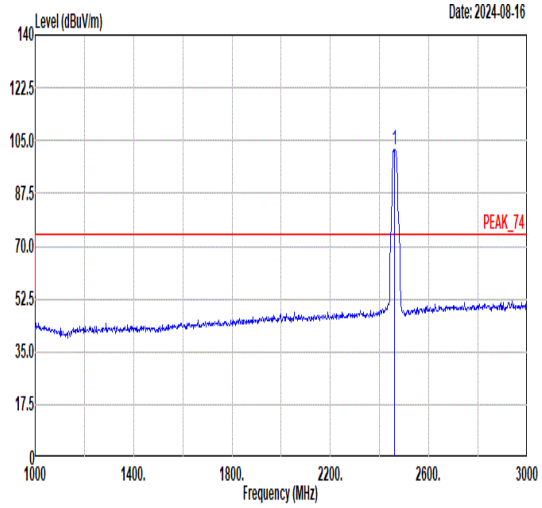
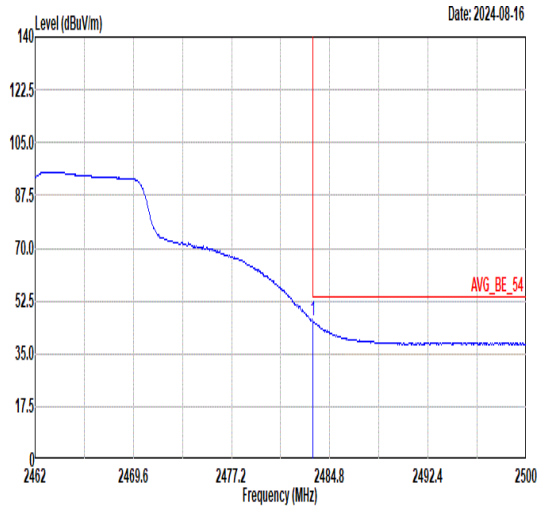
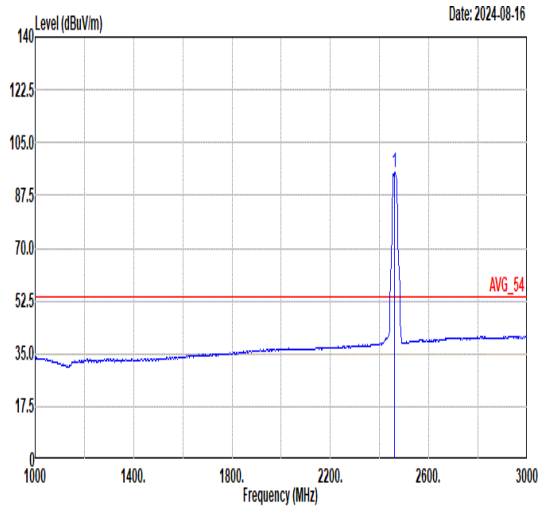
Mode	1	
	LF	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Vertical
QP/ Peak		

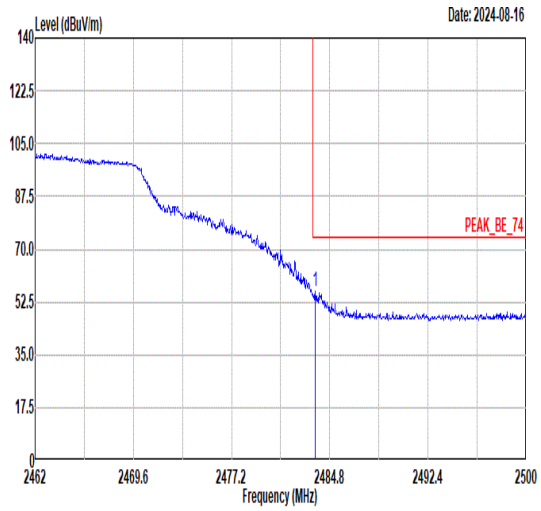
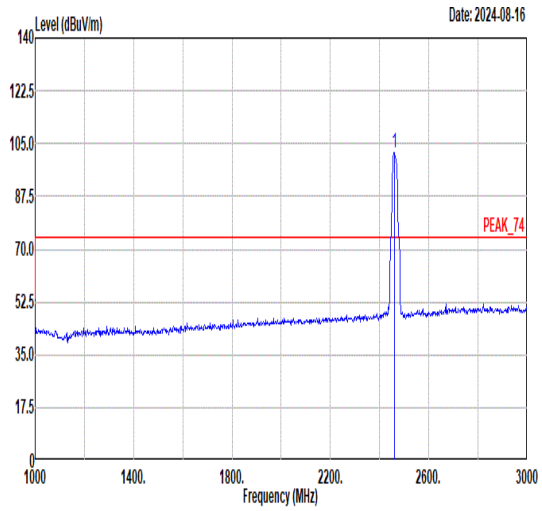
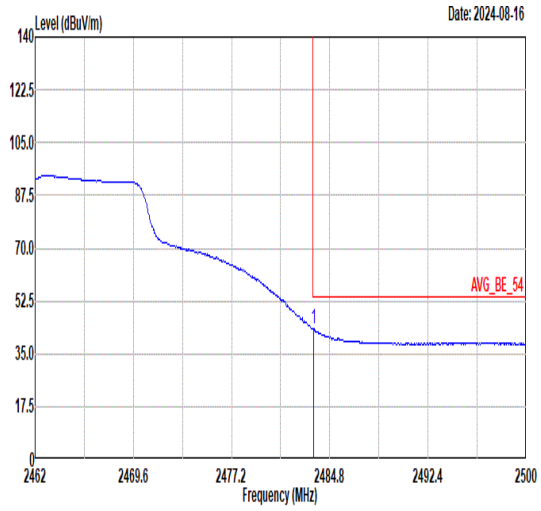
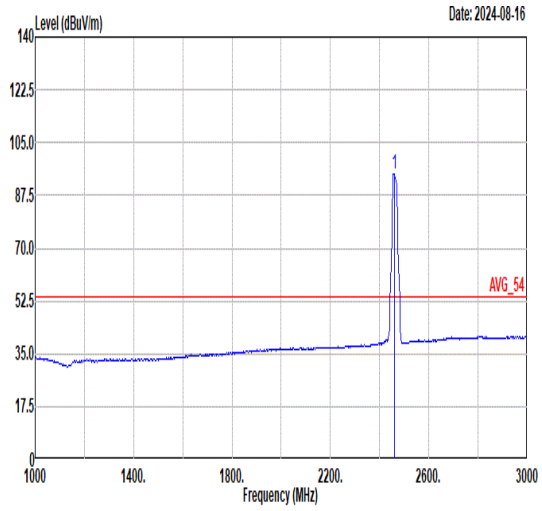
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	73.65	18.25	40.00	-21.75	35.25	12.79	1.57	31.36	--	--	Peak
2	150.28	19.44	43.50	-24.06	31.82	16.50	2.22	31.10	--	--	Peak
3	312.27	27.63	46.00	-18.37	35.66	19.67	3.18	30.88	--	--	Peak
4	642.07	25.99	46.00	-20.01	27.20	25.15	4.56	30.92	--	--	Peak
5	833.16	30.04	46.00	-15.96	29.56	26.37	5.18	31.07	--	--	Peak
6	938.89	30.60	46.00	-15.40	29.03	27.04	5.53	31.00	--	--	Peak

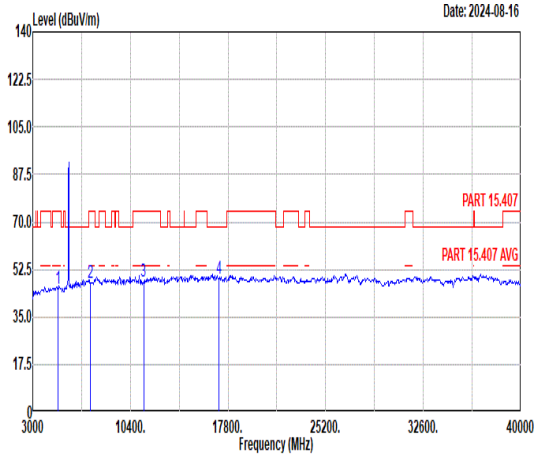
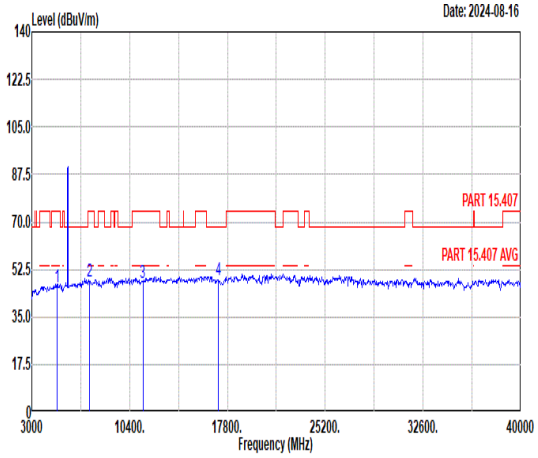
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	47.46	17.80	40.00	-22.20	32.34	15.40	1.26	31.20	--	--	Peak
2	155.13	16.97	43.50	-26.53	29.39	16.40	2.26	31.08	--	--	Peak
3	304.51	20.78	46.00	-25.22	29.02	19.51	3.14	30.89	--	--	Peak
4	629.46	25.70	46.00	-20.30	27.04	25.08	4.52	30.94	--	--	Peak
5	804.06	29.74	46.00	-16.26	29.62	26.13	5.09	31.10	--	--	Peak
6	950.53	30.25	46.00	-15.75	28.57	27.11	5.57	31.00	--	--	Peak

Mode	2	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.71 57.99 68.30 -10.31 43.61 35.12 11.65 32.39 372 343 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 107.11 ------ ------ 92.74 35.08 11.66 32.37 372 343 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 96.48 ------ ------ 82.11 35.08 11.66 32.37 372 343 AVERAGE

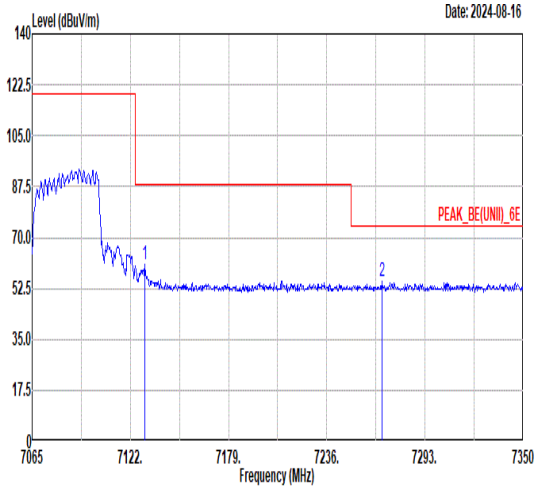
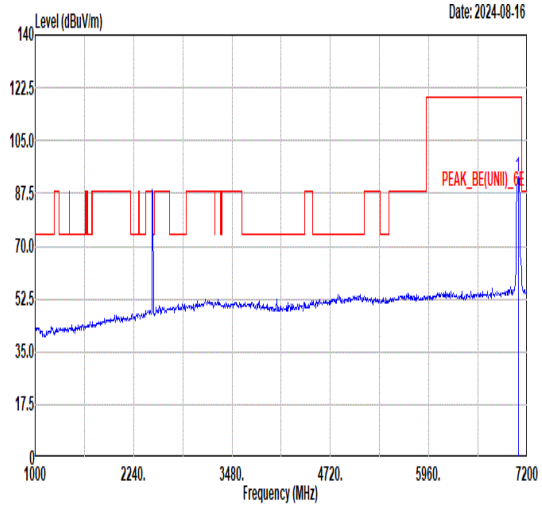
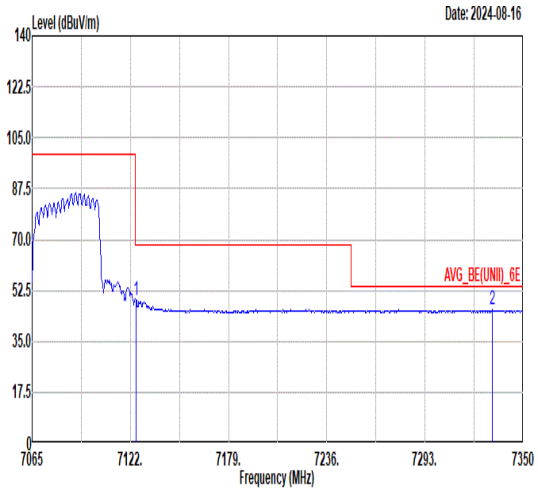
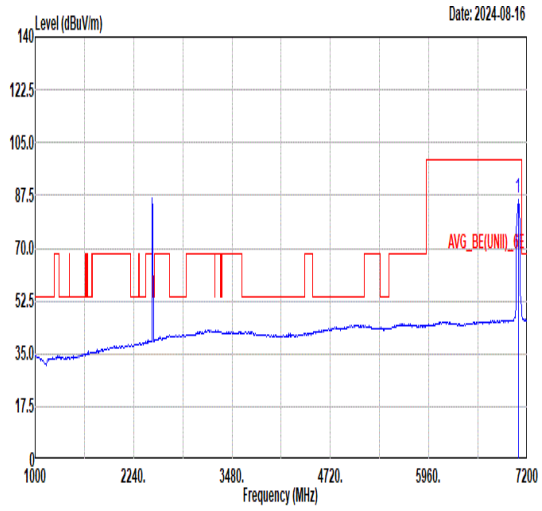
Mode	2	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ 802.11g_CH11_2462MHz Co-location	
ANT	CDD 6+17	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5730.26 61.32 68.30 -6.98 46.94 35.12 11.65 32.39 319 214 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 106.02 ------ ------ 91.65 35.08 11.66 32.37 319 214 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 97.81 ------ ------ 83.43 35.09 11.66 32.37 319 214 AVERAGE

Mode	2	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 7+16	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.77 59.78 74.00 -14.22 51.54 32.46 7.88 32.10 324 117 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 101.97 ------ ------ 93.78 32.42 7.86 32.09 324 117 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.51 45.85 54.00 -8.15 37.61 32.46 7.88 32.10 324 117 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 95.26 ------ ------ 87.07 32.42 7.86 32.09 324 117 AVERAGE

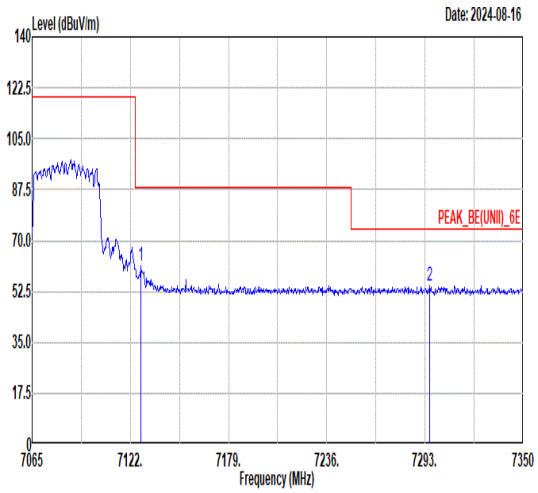
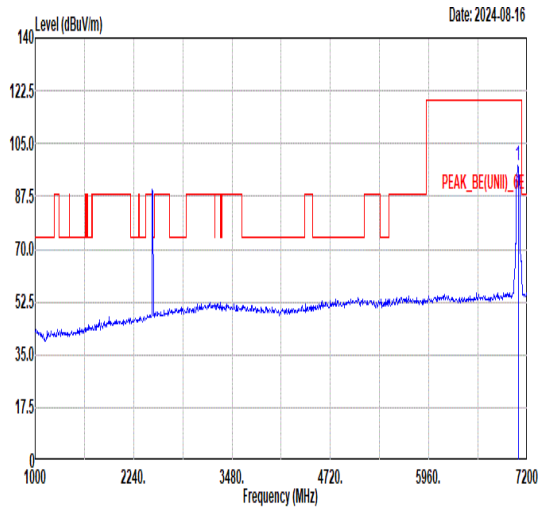
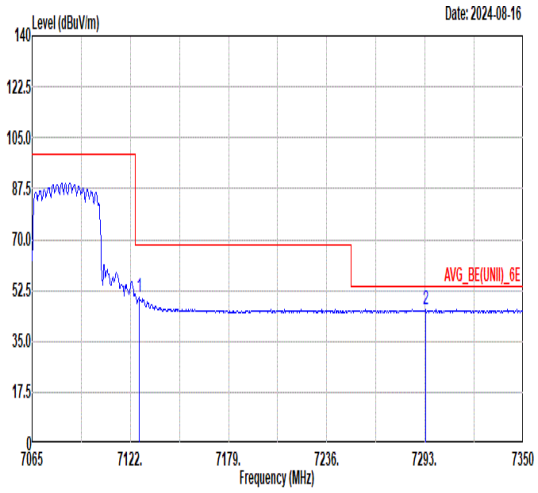
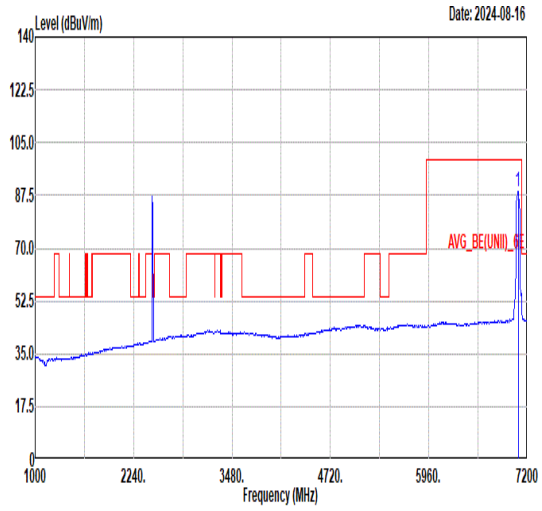
Mode	2	
	Band Edge	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ 802.11g_CH11_2462MHz Co-location	
ANT	CDD 7+16	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.70 56.12 74.00 -17.88 47.88 32.46 7.88 32.10 331 250 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 102.11 ------ ------ 93.94 32.41 7.85 32.09 331 250 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.55 43.49 54.00 -10.51 35.25 32.46 7.88 32.10 331 250 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 94.73 ------ ------ 86.57 32.40 7.85 32.09 331 250 AVERAGE

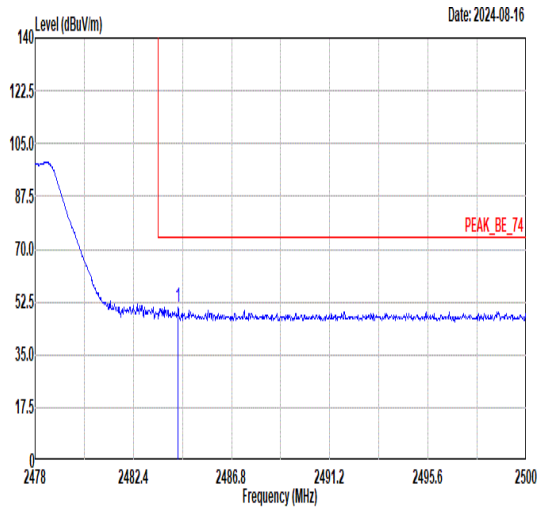
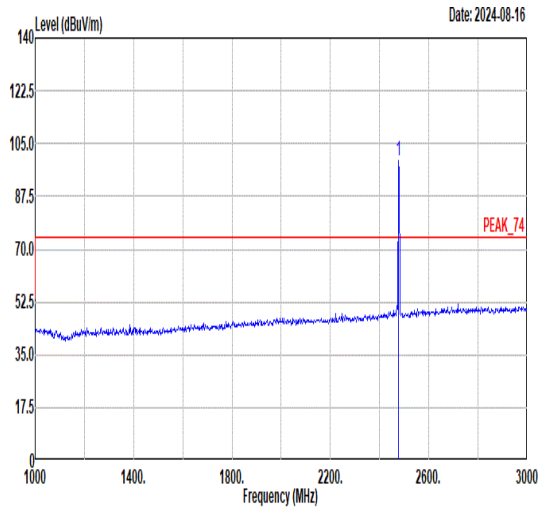
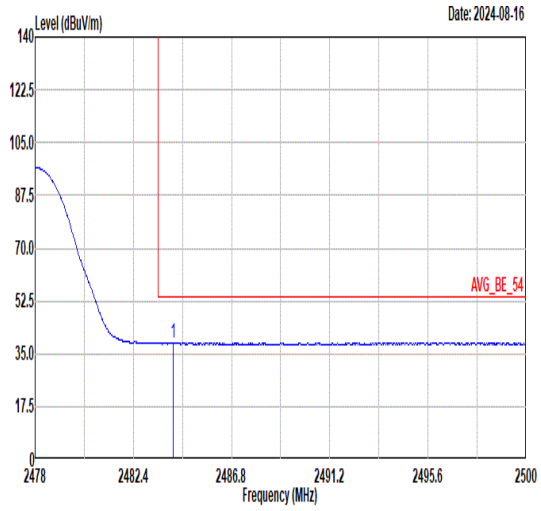
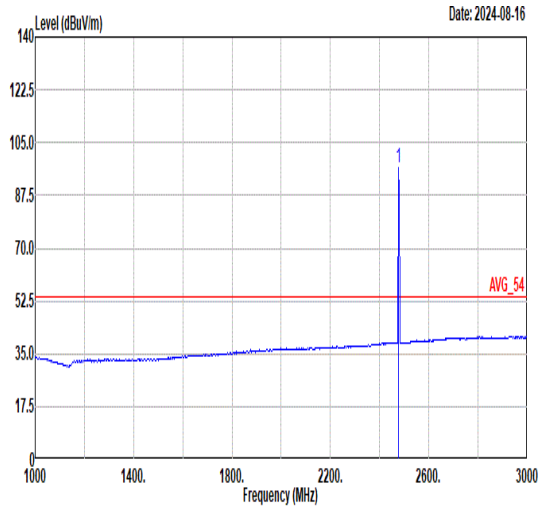
Mode	2	
	Harmonic	
	802.11ax HE20_CH140_RU106/54_5700MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4924.00 45.20 74.00 -28.80 50.74 34.87 11.12 51.53 -- -- Peak 2 7386.00 47.72 74.00 -26.28 49.42 36.35 13.13 51.18 -- -- Peak 3 11400.00 48.11 74.00 -25.89 44.33 39.72 14.78 50.72 -- -- Peak 4 17100.00 49.35 68.30 -18.95 41.16 42.46 17.53 51.80 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4924.00 46.03 74.00 -27.97 51.57 34.87 11.12 51.53 -- -- Peak 2 7386.00 47.99 74.00 -26.01 49.69 36.35 13.13 51.18 -- -- Peak 3 11400.00 47.52 74.00 -26.48 43.74 39.72 14.78 50.72 -- -- Peak 4 17100.00 48.56 68.30 -19.74 40.37 42.46 17.53 51.80 -- -- Peak

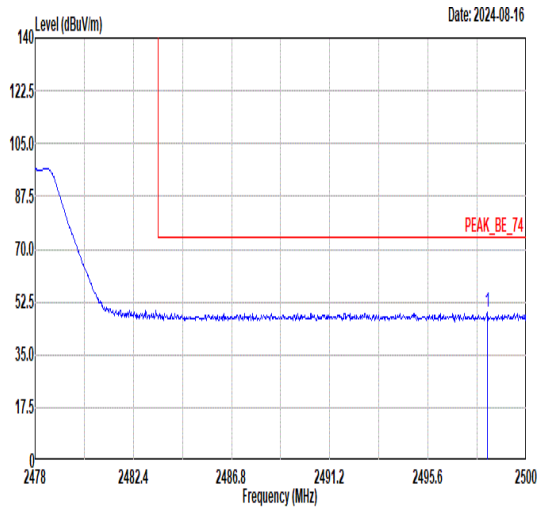
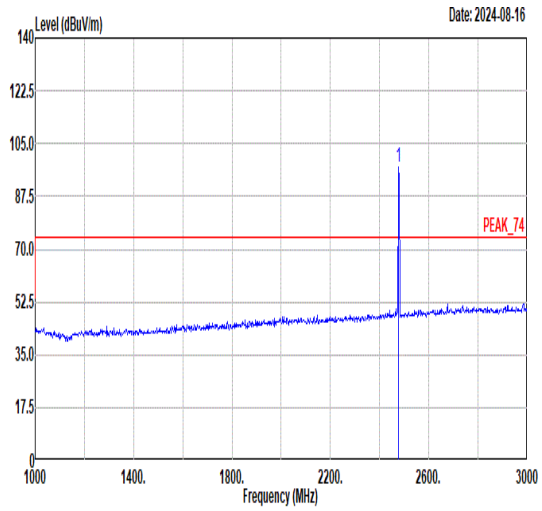
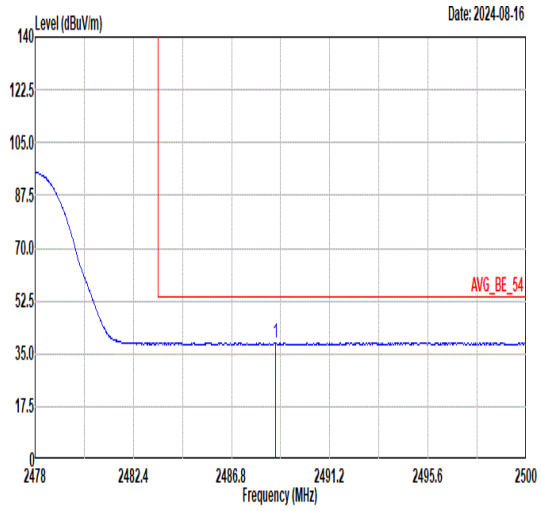
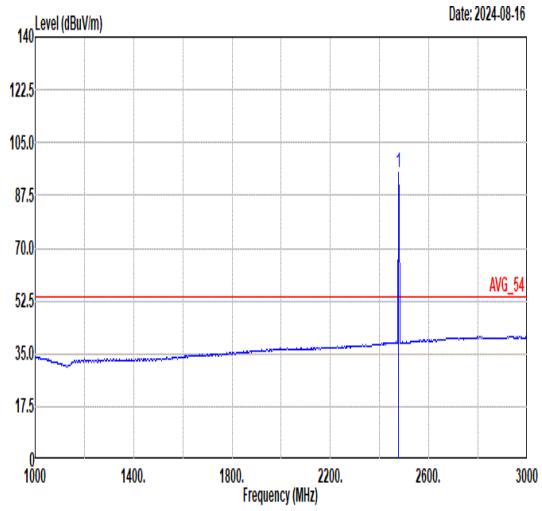
Mode	3
	Band Edge
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz
ANT	CDD 6+17

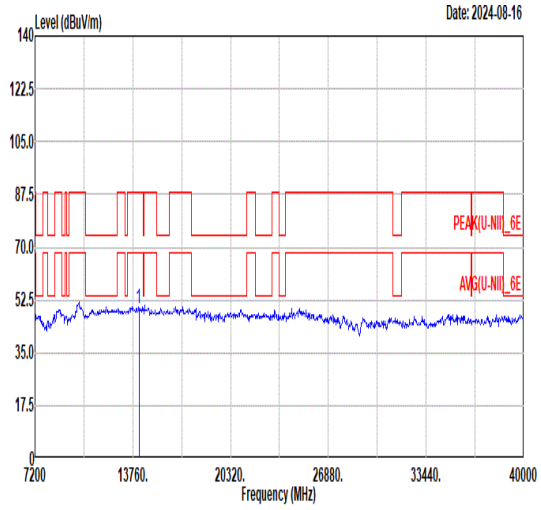
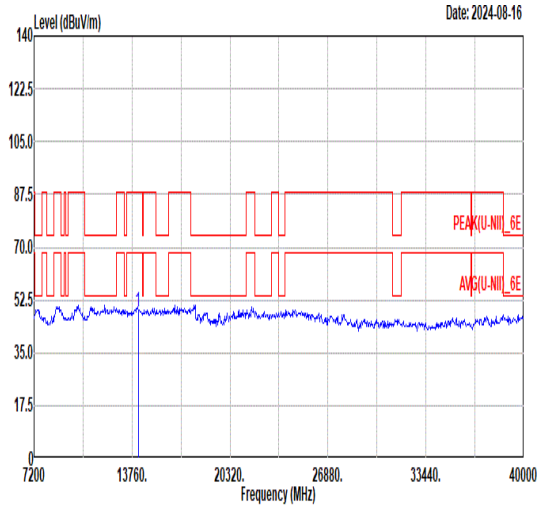
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7130.55 60.57 88.20 -27.63 44.08 36.25 12.75 32.51 400 53 PEAK 2 7267.92 54.98 74.00 -19.02 38.24 36.31 13.05 32.62 400 53 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7085.00 93.12 ------ ------ 76.76 36.24 12.60 32.48 400 53 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7125.42 49.35 68.20 -18.85 32.87 36.25 12.73 32.50 400 53 AVERAGE 2 7332.05 46.02 54.00 -7.98 29.27 36.33 13.09 32.67 400 53 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7085.00 86.54 ------ ------ 78.31 32.45 7.87 32.09 400 53 AVERAGE

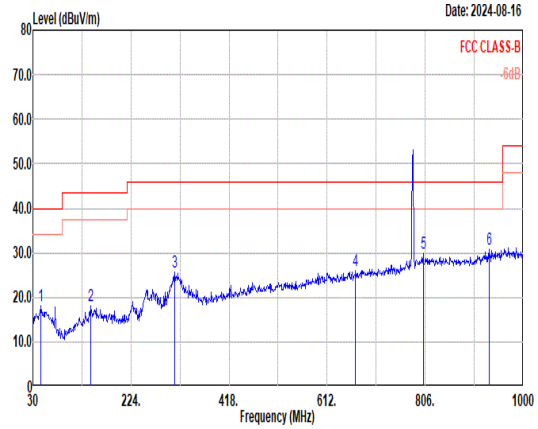
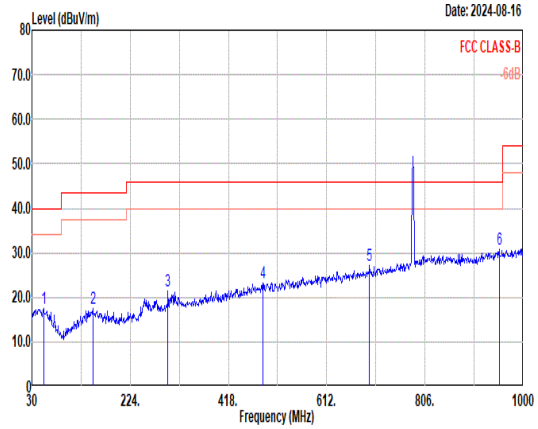
Mode	3
	Band Edge
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz
ANT	CDD 6+17

Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7128.27 61.31 88.20 -26.89 44.83 36.25 12.74 32.51 200 313 PEAK 2 7295.57 54.56 74.00 -19.44 37.81 36.32 13.07 32.64 200 313 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7085.00 97.48 ------ ------ 81.14 36.23 12.58 32.47 200 313 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7127.13 50.10 68.20 -18.10 33.62 36.25 12.74 32.51 200 313 AVERAGE 2 7293.57 45.88 54.00 -8.12 29.13 36.32 13.07 32.64 200 313 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7085.00 88.95 ------ ------ 72.59 36.24 12.60 32.48 200 313 AVERAGE

Mode	3	
	Band Edge	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	16	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2484.40 50.93 74.00 -23.07 42.68 32.47 7.88 32.10 323 282 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 99.10 ------ ------ 90.87 32.45 7.87 32.09 323 282 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2484.18 38.70 54.00 -15.30 30.45 32.47 7.88 32.10 323 282 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 96.71 ------ ------ 88.48 32.45 7.87 32.09 323 282 AVERAGE

Mode	3	
	Band Edge	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	16	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2498.26 48.98 74.00 -25.02 40.69 32.50 7.89 32.10 324 247 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 97.32 ------ ------ 89.09 32.45 7.87 32.09 324 247 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2488.76 38.59 54.00 -15.41 30.33 32.48 7.88 32.10 324 247 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2478.00 94.84 ------ ------ 86.61 32.45 7.87 32.09 324 247 AVERAGE

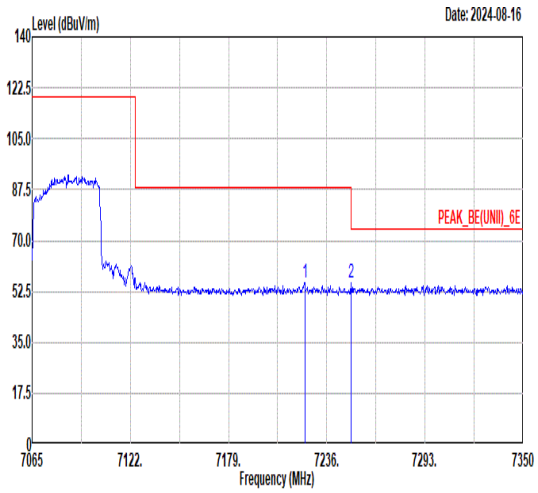
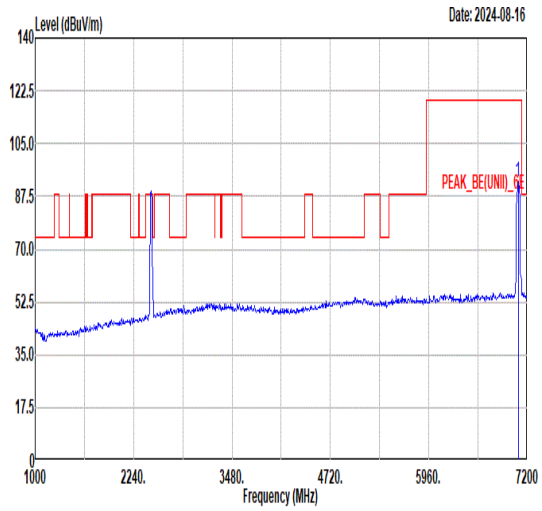
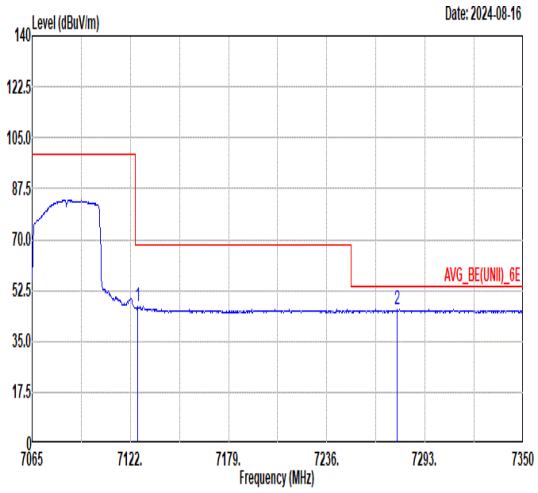
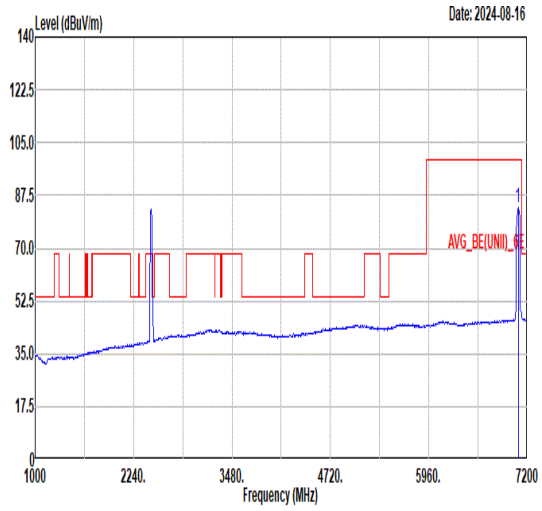
Mode	3	
	Harmonic	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 14170.00 49.74 88.20 -38.46 43.15 41.00 16.32 50.73 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 14170.00 48.34 88.20 -39.86 41.75 41.00 16.32 50.73 -- -- Peak

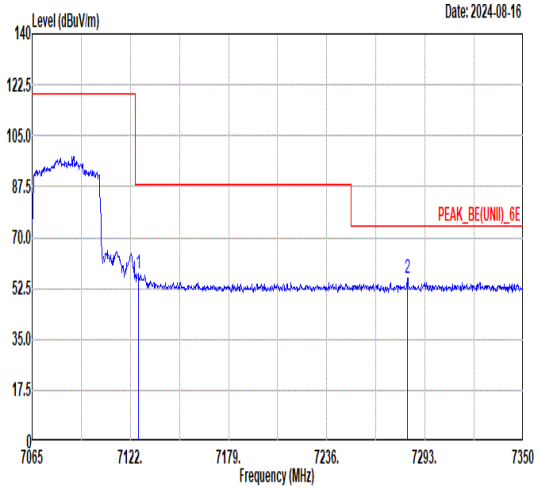
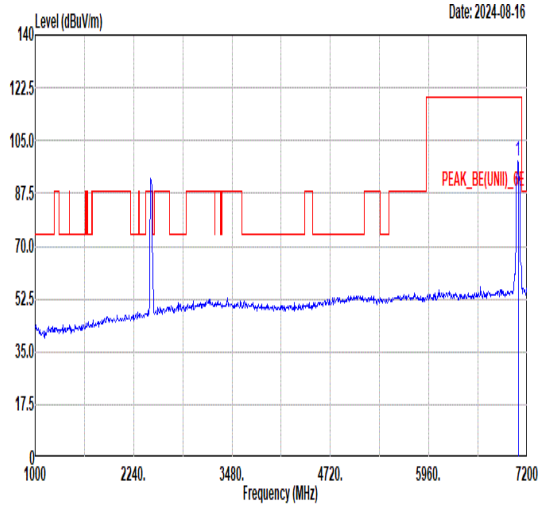
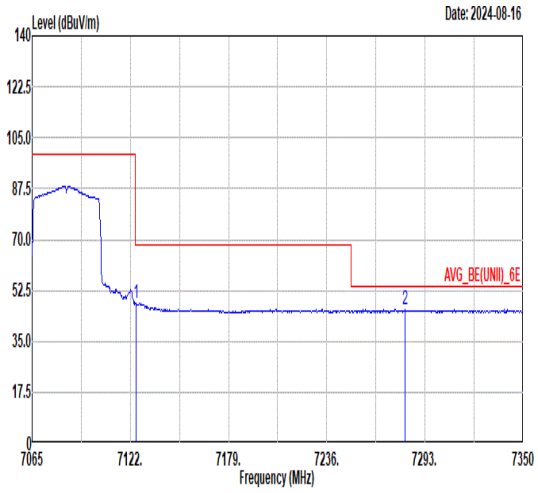
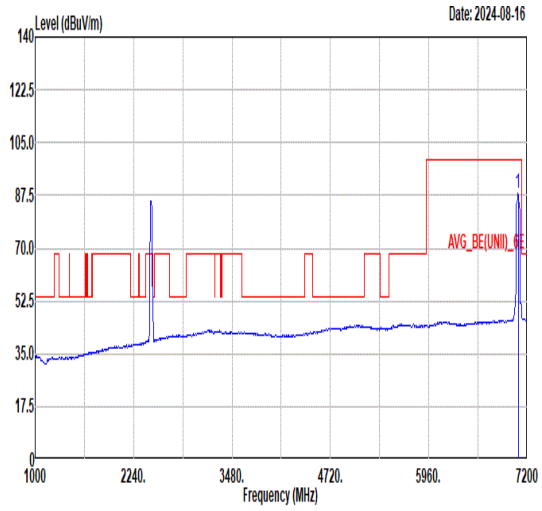
Mode	3	
	LF	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ Bluetooth LE_2Mbps_CH38_2478MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Vertical
QP/ Peak		

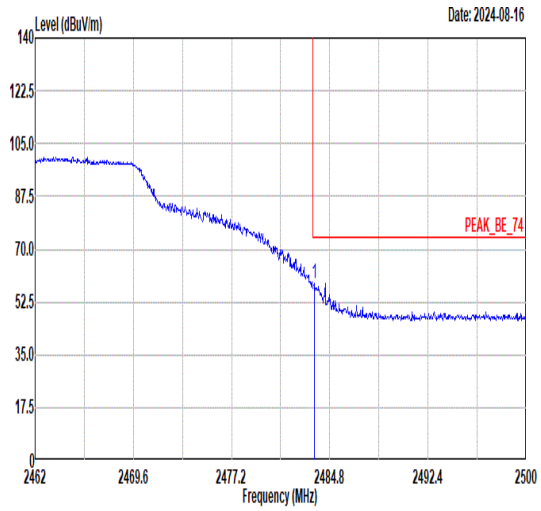
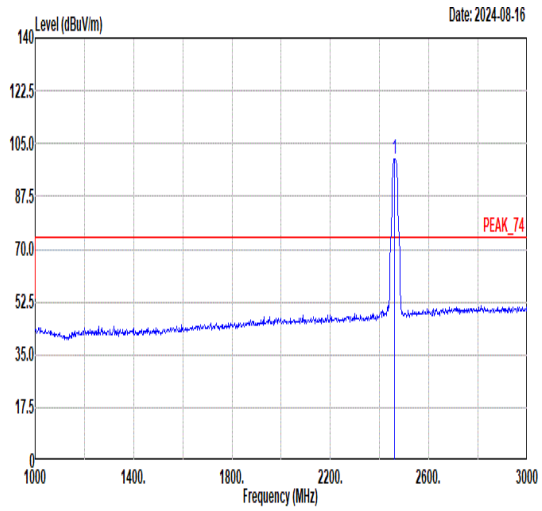
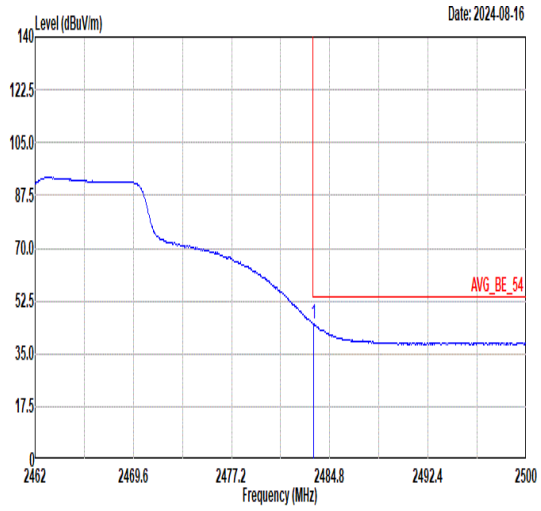
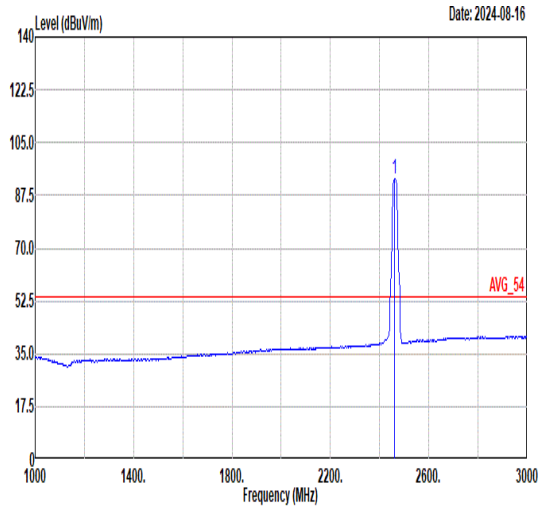
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	45.52	17.99	40.00	-22.01	31.82	16.13	1.24	31.20	--	--	Peak
2	144.46	18.01	43.50	-25.49	29.95	16.99	2.18	31.11	--	--	Peak
3	310.33	25.65	46.00	-20.35	33.73	19.63	3.17	30.88	--	--	Peak
4	668.26	26.02	46.00	-19.98	27.04	25.20	4.64	30.86	--	--	Peak
5	802.12	29.91	46.00	-16.09	29.80	26.12	5.09	31.10	--	--	Peak
6	932.10	30.85	46.00	-15.15	29.36	26.99	5.50	31.00	--	--	Peak

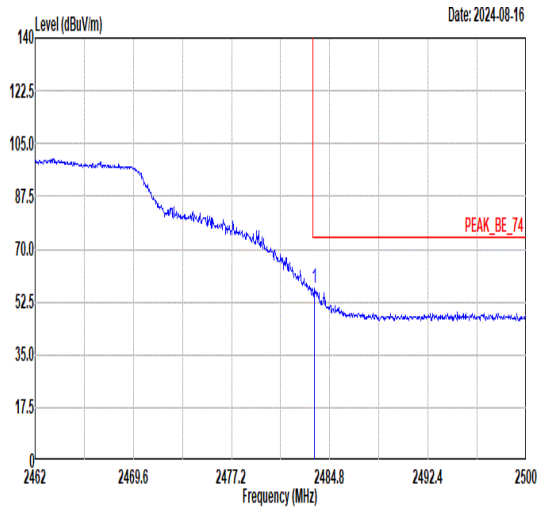
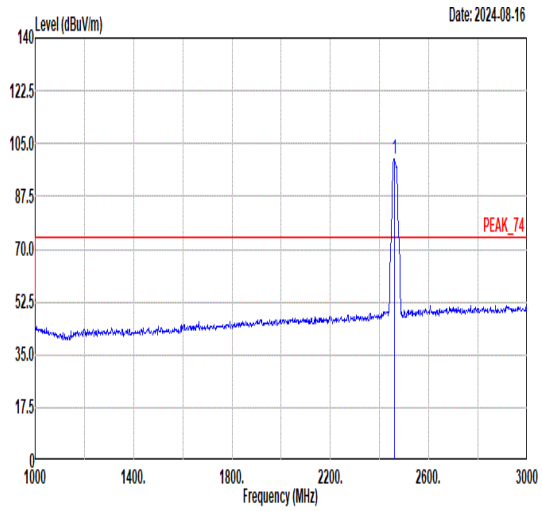
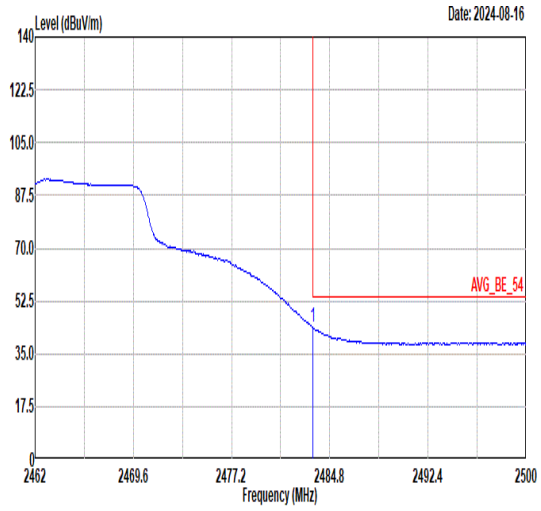
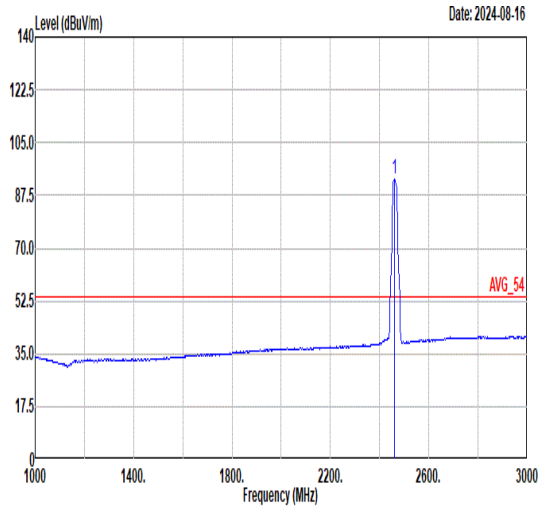
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	53.28	17.63	40.00	-22.37	33.75	13.76	1.34	31.22	--	--	Peak
2	150.28	17.49	43.50	-26.01	29.87	16.50	2.22	31.10	--	--	Peak
3	298.69	21.39	46.00	-24.61	29.79	19.39	3.11	30.90	--	--	Peak
4	485.90	23.38	46.00	-22.62	26.61	23.50	3.97	30.70	--	--	Peak
5	696.39	27.22	46.00	-18.78	28.10	25.20	4.73	30.81	--	--	Peak
6	952.47	30.77	46.00	-15.23	29.06	27.13	5.58	31.00	--	--	Peak

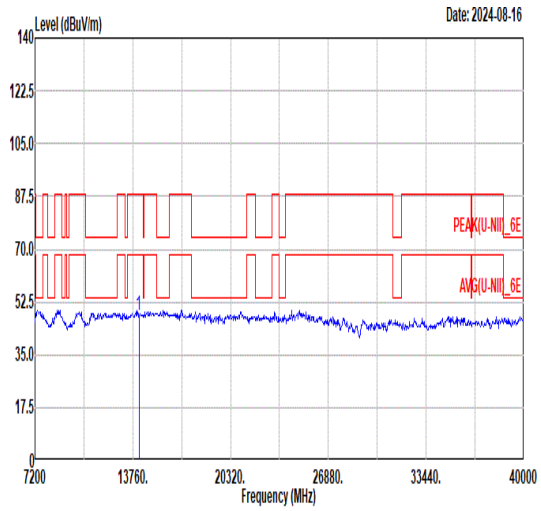
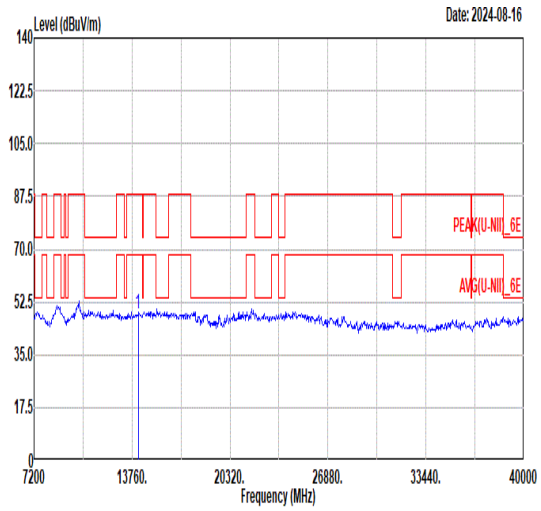
Mode	4
	Band Edge
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ 802.11g_CH11_2462MHz
ANT	CDD 6+17

Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 7223.18 55.50 88.20 -32.70 38.77 36.29 13.02 32.58 400 60 PEAK 2 7250.25 55.48 74.00 -18.52 38.74 36.30 13.04 32.60 400 60 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 7085.00 92.71 ------ ------ 76.33 36.24 12.62 32.48 400 60 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 7126.28 46.82 68.20 -21.38 30.33 36.25 12.74 32.50 400 60 AVERAGE 2 7276.76 45.90 54.00 -8.10 29.16 36.31 13.05 32.62 400 60 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 7085.00 83.30 ------ ------ 66.94 36.24 12.60 32.48 400 60 AVERAGE

Mode	4	
	Band Edge	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 6+17	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7126.56 57.83 88.20 -30.37 41.35 36.25 12.74 32.51 200 323 PEAK 2 7282.74 55.97 74.00 -18.03 39.23 36.31 13.06 32.63 200 323 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7085.00 98.00 ------ ------ 81.66 36.23 12.58 32.47 200 323 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7125.14 48.11 68.20 -20.09 31.63 36.25 12.73 32.50 200 323 AVERAGE 2 7281.60 45.83 54.00 -8.17 29.09 36.31 13.06 32.63 200 323 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 7085.00 88.02 ------ ------ 71.68 36.23 12.58 32.47 200 323 AVERAGE

Mode	4	
	Band Edge	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 7+16	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.58 58.67 74.00 -15.33 50.43 32.46 7.88 32.10 285 128 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 100.02 ------ ------ 91.85 32.41 7.85 32.09 285 128 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.55 45.09 54.00 -8.91 36.85 32.46 7.88 32.10 285 128 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 93.12 ------ ------ 84.93 32.42 7.86 32.09 285 128 AVERAGE

Mode	4	
	Band Edge	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 7+16	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.58 56.81 74.00 -17.19 48.57 32.46 7.88 32.10 297 245 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 99.92 ------ ------ 91.75 32.41 7.85 32.09 297 245 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2483.51 43.62 54.00 -10.38 35.38 32.46 7.88 32.10 297 245 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 2462.00 92.80 ------ ------ 84.61 32.42 7.86 32.09 297 245 AVERAGE

Mode	4	
	Harmonic	
	802.11ax HE40_CH227_Full RU_7085MHz+LTE B13 Link+ 802.11g_CH11_2462MHz	
ANT	CDD 6+17	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 14170.00 48.21 88.20 -39.99 41.62 41.00 16.32 50.73 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 14170.00 48.53 88.20 -39.67 41.94 41.00 16.32 50.73 -- -- Peak

Note: For all plots above, the over limit line signals are Fundamental signal which can be ignored.