



Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : M-51E(XT2453-8)
FCC ID : IHDT56AQ9
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H),
27(F), 90(S)
47 CFR Part 15 Subpart C §15.209
47 CFR Part 15 Subpart C §15.225
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : Jun. 24, 2024 ~ Jul. 09, 2024

We, Sporton International Inc. (Shenzhen), 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. (Kunshan)

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
422203-09	Rev. 01	Initial issue of report	Jul. 18, 2024
422203-09	Rev. 02	Updated model name	Sep. 23, 2024
422203-09	Rev. 03	Updated model name This report is an update version, replacing the report issued on Sep. 23, 2024.	Oct. 29, 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/manufacture 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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	M-51E(XT2453-8)
FCC ID	IHDT56AQ9
IMEI Code	Conducted/DFS/CBP: 352282910007259/352282910007267 Radiation: 352282910005113/352282910005121 Conduction: 352282910007119/352282910007127
HW Version	DVT2
SW Version	UUC34.94
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. Specification of Accessory

Specification of Accessory				
Battery 1	Brand Name	Motorola	Model Name	QR11
Battery 2	Brand Name	Motorola	Model Name	QR31

1.6. 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.
	TH01-KS DFS01-KS	CN1257	314309

Note: Test data subcontracted: test case of conducted/DFS/CBP in this report.

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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ	CN1256	421272

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 03CH03-SZ 03CH04-SZ 03CH05-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH01-SZ	AUDIX	E3	6.2009-8-24
3.	03CH03-SZ	AUDIX	E3	6.2009-8-24
4.	03CH04-SZ	AUDIX	E3	6.2009-8-24
5.	03CH05-SZ	AUDIX	E3	6.2009-8-24al
6.	CO01-SZ	AUDIX	E3	6.120613b

1.8. 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), 90(S)
- ♦ 47 CFR Part 15 Subpart C §15.209
- ♦ 47 CFR Part 15 Subpart C §15.225
- ♦ 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

The subject device of this application (Model: M-51E(XT2453-8), FCC ID: IHDT56AQ9) is electrically identical to the reference device:

Parent 1: Model: XT2453-3, XT2453-4, XT2453-5, XT2453V, FCC ID: IHDT56AR7

Parent 2: Model: XT2453-7, XT2453-9, FCC ID: IHDT56AQ8

for the portions of the circuitry corresponding to the data being re-used.

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.

For Conducted items of 5G NR bands please refer to report number: TR-24ADRTCC7015;

For SAR Reference detail, please refer to FCC SAR report number: FA422203-09;

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 transmission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AQ9.

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AQ9 (Variant) and FCC ID: IHDT56AR7 (Parent 1), IHDT56AQ8 (Parent 2) are as below:

- NFC: The transmitter IC on IHDT56AQ9 is identical to IHDT56AQ8, but different from IHDT56AR7.
- WWAN:
 - Software to enable/disable bands. However, there is *NO* added bands which are involved in the FCC Equipment Authorization for IHDT56AQ9.
 - The 3.5GHz (LTE B42, 5G NG n77/n78) power amplifiers is different from IHDT56AR7 and IHDT56AQ8.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AQ9_Operational Description of Product Equality Declaration).



2.3 Reference detail Section:

RF 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	IHDT56AR7	Full test	FR422203A	IHDT56AQ9	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AR7	Full test	FR422203B	IHDT56AQ9	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AR7	Full test	FR422203C	IHDT56AQ9	Spot check	Y, All test items
	DXX (NFC)	13.56	IHDT56AQ8	Full test	FR422203-02A	IHDT56AQ9	Spot check	Y, All test items
	DCD (WPT)	0.110~0.148	IHDT56AQ8	Full test	FR422203-02B	IHDT56AQ9	Spot check	Y, All test items
15E	NII	5150~5250	IHDT56AR7	Full test	FR422203F	IHDT56AQ9	Spot check	Y, All test items
		5250~5350	IHDT56AR7	Full test	FR422203F	IHDT56AQ9	Spot check	Y, All test items
		5470~5725	IHDT56AR7	Full test	FR422203F	IHDT56AQ9	Spot check	Y, All test items
		5725~5850	IHDT56AR7	Full test	FR422203F	IHDT56AQ9	Spot check	Y, All test items
		5250~5350 5470~5725	IHDT56AR7	Full test	FZ422203	IHDT56AQ9	Spot check	Y, All test items
	6XD	5925~7125	IHDT56AR7	Full test	FR422203G	IHDT56AQ9	Spot check	Y, All test items
22, 24, 27, 90	PCE (GSM)	GSM 850/1900	IHDT56AR7	Full test	FG422203A	IHDT56AQ9	Spot check	Y, All test items
	PCE (WCDMA)	Band II, IV, V	IHDT56AR7	Full test	FG422203A	IHDT56AQ9	Spot check	Y, All test items
	PCE (LTE)	B2/4/66/66B/66C	IHDT56AR7	Full test	FG422203B	IHDT56AQ9	Spot check	Y, All test items
	PCE (LTE)	B5/26/12/17	IHDT56AQ8	Full test	FG422203-02A	IHDT56AQ9	Spot check	Y, All test items
	PCE (LTE)	B7/38/41/41C	IHDT56AR7	Full test	FG422203C	IHDT56AQ9	Spot check	Y, All test items
	PCE (LTE)	B26 (90S)	IHDT56AQ8	Full test	FG422203-02B	IHDT56AQ9	Spot check	Y, All test items
	PCE (NR)	n66	IHDT56AR7	Full test	FG422203L	IHDT56AQ9	Spot check	Y, RSE item.
	PCE (NR)	n5	IHDT56AQ8	Full test	FG422203-02E	IHDT56AQ9	Spot check	Y, RSE item.
	PCE (NR)	n41/n41 MIMO	IHDT56AR7	Full test	FG422203K	IHDT56AQ9	Spot check	Y, RSE item.

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 d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB} , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

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 (Unit)	IHDT56AR7 Parent Worst mode Test Result	IHDT56AQ9 Variant Check Test Result	Deviation	Deviation Limit
BT 1Mbps (DH5-CH78)	Number of Channels (N)	79	79	0	3
	Hopping Channel Separation (MHz)	0.999	1.003	0.004	3
	Dwell Time of Each Channel(s)	0.31	0.31	0	3
	20dB Bandwidth(MHz)	0.822	0.851	0.029	3
	99% Bandwidth(MHz)	0.751	0.753	0.002	3
	Conducted Band Edges(dBm)	-48.73	-48.28	0.45	3
	Conducted Spurious Emission(dBm)	-47.08	-47.18	0.1	3
	Radiated Band Edges and Radiated Spurious Emission (dBuV/m)	55.68	53.15	2.53	3
BT	AC Conducted Emission (dBuV)	39.42	41.76	2.34	3
BLE (1M-CH00)	6dB Bandwidth (MHz)	0.712	0.704	0.008	3
	99% Bandwidth (MHz)	1.031	1.031	0	3
	Power Spectral Density (dBm/3KHz)	2.87	2.75	0.12	3
	Conducted Band Edges and Spurious Emission (dBm)	-44.96	-43.22	1.74	3
	Conducted Spurious Emission (dBm)	-46.89	-45.42	1.47	3
BLE (2M-CH38)	Radiated Band Edges and Spurious Emission (dBuV/m)	47.08	45.26	1.82	3
BLE	AC Conducted Emission (dBuV)	39.42	41.76	2.34	3
WIFI 2.4G (802.11b CH11)	6dB Bandwidth (MHz)	8.06	8.06	0	3
	99% Bandwidth (MHz)	12.64	12.49	0.15	3
	Power Spectral Density (dBm/3KHz)	3.43	3.63	0.2	3
	Conducted Band Edges and Spurious Emission (dBm)	-45.87	-44.59	1.28	3
	Conducted Spurious Emission (dBm)	-47.50	-46.81	0.71	3
WIFI 2.4G (802.11ax HE40 CH03)	Radiated Band Edges and Spurious Emission (dBuV/m)	50.59	49.71	0.88	3
WLAN 2.4G	AC Conducted Emission (dBuV)	31.39	34.33	2.94	3



Mode	Test Item (Unit)	IHDT56AR7 Parent Worst mode Test Result	IHDT56AQ9 Variant Check Test Result	Deviation	Deviation Limit
WLAN 5G (802.11a CH149)	26dB Emission Bandwidth (MHz)	38.16	36.98	1.08	3
	99% Occupied Bandwidth (MHz)	19.63	19.93	0.30	3
	Power Spectral Density (dBm/MHz)	11.04	11.28	0.24	3
WIFI 5G (802.11ax HE80 CH122)	Radiated Band Edges and Spurious Emission (dBuV/m)	50.66	48.67	1.99	3
WLAN 5G	AC Conducted Emission (dBuV)	30.38	32.96	2.58	3
WLAN 5G	DFS (s)	0.847628	0.848428	0.0008	3
WIFI 6G UNII-6 (802.11ax HE40 CH107 6485MHz)	26dB Emission Bandwidth (MHz)	40.12	39.74	0.38	3
	99% Occupied Bandwidth (MHz)	37.56	37.76	0.20	3
	Fundamental Maximum EIRP (dBm)	6.81	6.75	0.06	3
	Fundamental Power Spectral Density (dBm/MHz)	-2.21	-2.98	0.77	3
	In-Band Emissions (Channel Mask) (dB)	-40.51	-41.42	1.09	3
	Contention Based Protocol (dBm)	-70.53	-70.60	0.07	3
WIFI 6G UNII-8 (802.11ax HE80 CH215 7025MHz)	Radiated Band Edges and Spurious Emission (dBuV/m)	64.83	62.43	2.4	3
WLAN 6G	AC Conducted Emission (dBuV)	39.69	42.24	2.55	3
Part 22/24/27 (LTE Band 66B) For ANT.2 & ANT.3	26dB Bandwidth (MHz)	21.16	21.03	0.13	3
	Peak-to-Average Ratio (dB)	6.38	6.35	0.03	3
	Occupied Bandwidth (MHz)	13.91	13.94	0.03	3
	Conducted Band Edge Measurement (dBm)	-14.01	-16.85	2.84	3
	Conducted Spurious Emission (dBm)	-45.69	-45.46	0.23	3
	Frequency Stability Temperature & Voltage (ppm)	0.0029	0.0031	0.0002	3
Part 22/24/27 (EDGE 1900) For ANT.2 & ANT.3	Radiated Spurious Emission(dBm)	-52.82	-54.44	1.62	3
Part 22/24/27 (WCDMA B2) For ANT.2 & ANT.3	Radiated Spurious Emission (dBm)	-52.80	-54.95	2.15	3



Mode	Test Item (Unit)	IHDT56AQ8 Parent Worst mode Test Result	IHDT56AQ9 Variant Check Test Result	Deviation	Deviation Limit
NFC	20dB Emission Bandwidth (KHz)	2.48	2.58	0.1	3
	99% Occupied Bandwidth (KHz)	2.10	2.15	0.05	3
	Field Strength of Fundamental (dBuV/m)	55.15	57.14	1.99	3
	Radiated Spurious Emissions (dBuV/m)	34.27	33.58	0.69	3
	AC Power Line Conducted Emissions(dBuV)	56.89	56.59	0.30	3
WPT	20dB Emission Bandwidth (KHz)	0.7685	0.9595	0.19	3
	99% Occupied Bandwidth (KHz)	0.703	0.781	0.08	3
	Radiated Emission (dBuV/m)	74.03	73.22	0.81	3
Part 22/24/27 (WCDMA Band 2) For ANT.0 & ANT.1	Radiated Spurious Emission(dBm)	-52.68	-54.95	2.27	3



Test Item(Unit)	Mode	IHDT56AR7 Parent Worst mode Test Result	IHDT56AQ9 Variant Check Test Result	Deviation	Deviation Limit
Conducted Output Power (dBm)	BT BR/EDR	19.20	19.18	0.02	3
	BLE 1Mbps	19.09	18.89	0.2	3
	BLE 2Mbps	18.99	18.87	0.12	3
	11b, 2.4GHz	27.82	27.75	0.07	3
	11g, 2.4GHz	29.77	29.62	0.15	3
	11n HT20, 2.4GHz	29.58	29.11	0.47	3
	11n HT40, 2.4GHz	28.34	28.05	0.29	3
	11ax HE20, 2.4GHz	29.69	29.57	0.12	3
	11ax HE40, 2.4GHz	28.42	28.08	0.34	3
	11a, 5.2GHz	21.08	21.04	0.04	3
	11a, 5.3GHz	21.42	21.11	0.31	3
	11a, 5.5GHz	21.20	21.17	0.03	3
	11a, 5.8GHz	24.32	24.20	0.12	3
	11n HT20, 5.2GHz	21.34	21.07	0.27	3
	11n HT20, 5.3GHz	21.49	21.17	0.32	3
	11n HT20, 5.5GHz	21.43	21.46	-0.03	3
	11n HT20, 5.8GHz	23.30	23.19	0.11	3
	11ac VHT20, 5.2GHz	21.46	21.10	0.36	3
	11ac VHT20, 5.3GHz	21.59	21.22	0.37	3
	11ac VHT20, 5.5GHz	21.55	21.51	0.04	3
	11ac VHT20, 5.8GHz	23.35	23.23	0.12	3
	11ax HE20, 5.2GHz	21.57	21.17	0.4	3
	11ax HE20, 5.3GHz	21.68	21.30	0.38	3
	11ax HE20, 5.5GHz	21.67	21.65	0.02	3
	11ax HE20, 5.8GHz	23.44	23.31	0.13	3
	11n HT40, 5.2GHz	21.41	21.12	0.29	3
	11n HT40, 5.3GHz	21.65	21.55	0.1	3
	11n HT40, 5.5GHz	21.99	21.88	0.11	3
	11n HT40, 5.8GHz	21.81	21.56	0.25	3
	11ac VHT40, 5.2GHz	21.43	21.15	0.28	3
	11ac VHT40, 5.3GHz	21.69	21.60	0.09	3
	11ac VHT40, 5.5GHz	22.02	21.92	0.1	3
	11ac VHT40, 5.8GHz	21.85	21.60	0.25	3
	11ax HE40, 5.2GHz	21.51	21.24	0.27	3
	11ax HE40, 5.3GHz	21.80	21.70	0.1	3
	11ax HE40, 5.5GHz	22.12	22.02	0.1	3
	11ax HE40, 5.8GHz	21.95	21.69	0.26	3
	11ac VHT80, 5.2GHz	14.30	14.25	0.05	3
	11ac VHT80, 5.3GHz	15.95	15.68	0.27	3
	11ac VHT80, 5.5GHz	22.00	21.81	0.19	3
	11ac VHT80, 5.8GHz	22.34	22.32	0.02	3



	11ax HE80, 5.2GHz	14.39	14.35	0.04	3
	11ax HE80, 5.3GHz	16.02	15.82	0.2	3
	11ax HE80, 5.5GHz	22.08	21.92	0.16	3
	11ax HE80, 5.8GHz	22.45	22.42	0.03	3
	6E 11ax HE20 U-NII-5	12.67	12.62	0.05	3
	6E 11ax HE20 U-NII-6	13.22	13.13	0.09	3
	6E 11ax HE20 U-NII-7	12.54	12.44	0.1	3
	6E 11ax HE20 U-NII-8	13.24	13.16	0.08	3
	6E 11ax HE40 U-NII-5	13.77	13.74	0.03	3
	6E 11ax HE40 U-NII-6	14.01	13.88	0.13	3
	6E 11ax HE40 U-NII-7	13.78	13.76	0.02	3
	6E 11ax HE40 U-NII-8	14.05	14.02	0.03	3
	6E 11ax HE80 U-NII-5	13.71	13.69	0.02	3
	6E 11ax HE80 U-NII-6	13.59	13.57	0.02	3
	6E 11ax HE80 U-NII-7	13.39	13.37	0.02	3
	6E 11ax HE80 U-NII-8	13.67	13.64	0.03	3
	GSM 850	31.77	31.52	0.25	3
	GSM 1900	29.44	29.32	0.12	3
	WCDMA 850	24.34	24.28	0.06	3
	WCDMA 1900	23.26	23.05	0.21	3
	WCDMA 1700	23.17	23.11	0.06	3
	LTE B2	23.41	23.29	0.12	3
	LTE B4	23.31	22.99	0.32	3
	LTE B66	23.41	23.35	0.06	3
	LTE B66B	23.04	22.91	0.13	3
	LTE B66C	23.02	22.86	0.16	3
	LTE B7	24.33	23.66	0.67	3
	LTE B38	24.35	23.69	0.66	3
	LTE B41	27	26.47	0.53	3
	LTE B41CA	26.03	25.88	0.15	3
	LTE B26_Par t 22H	23.15	23.07	0.08	3
	LTE B26_Par t 90S	23.06	22.94	0.12	3
	LTE B5	23.11	22.96	0.15	3
	LTE B12	23.14	23.01	0.13	3
	LTE B17	23.10	22.87	0.23	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/BLE/WIFI2.4G:

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	Jul. 09, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Jan. 02, 2024	Jul. 09, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Jul. 09, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Jul. 01, 2024~Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Jul. 01, 2024~Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 01, 2024~Jul. 09, 2024	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 20, 2023	Jul. 01, 2024~Jul. 09, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Jul. 01, 2024~Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jul. 01, 2024~Jul. 09, 2024	Jul. 06, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2024		Jul. 05, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	Jul. 01, 2024~Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Jul. 01, 2024~Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Jul. 01, 2024~Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Jul. 01, 2024~Jul. 09, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Jul. 01, 2024~Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 01, 2024~Jul. 09, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 01, 2024~Jul. 09, 2024	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 05, 2024	Jul. 09, 2024	Jul. 04, 2025	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Jul. 09, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Jul. 09, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 06, 2024	Jul. 09, 2024	Jul. 05, 2025	Conduction (CO01-SZ)
Spectrum Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 03, 2024	Jun. 24, 2024	Jan. 02, 2025	DFS (DFS01-KS)
Vector Signal Generator	R&S	SMJ100A	101908	100kHz~6GHz	Jan. 02, 2024	Jun. 24, 2024	Jan. 01, 2025	DFS (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Jun. 24, 2024	NCR	DFS (DFS01-KS)



For WIFI 5G/6G:

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	Jul. 09, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Jan. 02, 2024	Jul. 09, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Jul. 09, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Jul. 01, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Jul. 01, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 01, 2024	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Jul. 01, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Jul. 01, 2024	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Jul. 01, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 18, 2023	Jul. 01, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jul. 01, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Jul. 01, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 01, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 01, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 05, 2024	Jul. 09, 2024	Jul. 04, 2025	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Jul. 09, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Jul. 09, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 06, 2024	Jul. 09, 2024	Jul. 05, 2025	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 02, 2024	Jun. 24, 2024	Jan. 01, 2025	CBP (DFS01-KS)
MXG-B RF Vector Signal Generator	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	Apr. 17, 2024	Jun. 24, 2024	Apr. 16, 2025	CBP (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Jun. 24, 2024	NCR	CBP (DFS01-KS)

**For NFC:**

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	Jul. 09, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Jul. 09, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 01, 2024	Jul. 27, 2024	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2023	Jul. 01, 2024	Jul. 07, 2024	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 18, 2023	Jul. 01, 2024	Oct. 17, 2024	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Jul. 01, 2024	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Jul. 01, 2024	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 05, 2024	Jul. 09, 2024	Jul. 04, 2025	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Jul. 09, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Jul. 09, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 06, 2024	Jul. 09, 2024	Jul. 05, 2025	Conduction (CO01-SZ)

For WPT:

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	Jul. 09, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Jul. 09, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 01, 2024	Jul. 27, 2024	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2023	Jul. 01, 2024	Jul. 07, 2024	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 09, 2024	Jul. 01, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 18, 2023	Jul. 01, 2024	Oct. 17, 2024	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Jul. 01, 2024	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Jul. 01, 2024	NCR	Radiation (03CH05-SZ)



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	Jul. 09, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jul. 09, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Jul. 09, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Jun. 27, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Jun. 27, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Jun. 27, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	Jun. 27, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Jun. 27, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Jun. 27, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Jun. 27, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Jun. 27, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jun. 27, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Jun. 27, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Jun. 27, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 27, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 27, 2024	NCR	Radiation (03CH04-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)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 ppm

Uncertainty of Conducted Measurement (WIFI 6G)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.26 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 (NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.1%
Frequency	±0.4 ppm

Uncertainty of Conducted Measurement (WPT)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.1%

**Uncertainty of Conducted Measurement (DFS)**

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

Uncertainty of Conducted Measurement (WWAN)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB
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03CH03-SZ(BT/BLE/WIF 2.4G):

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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03CH01-SZ(WIF 5G/6G):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

03CH05-SZ(NFC/WPT):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5 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
---	--------

03CH04-SZ(WWAN):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9 dB
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-----THE END-----



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Shunping You	Relative Humidity :	50%
		Temperature :	20°C~22°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency (MHz)	Data Rate	RU	Remark
Mode 1	CO-TX	4	LTE B42 Link	Mid	3500	-	-	-
		7	Bluetooth-LE_GSKF	38	2478	2Mbps	-	-
		5	802.11ax HE40	03	2422	MCS0	Full RU	-
		-	NFC ON	-	-	-	-	-
Mode 2	CO-TX	-	LF	-	-	-	-	-

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
Mode 1	CO_TX		2389.94	43.20	54.00	-10.80	H	Average	Pass	Band Edge
			10473.00	55.54	67.99	-12.45	H	Peak	Pass	Harmonic
Mode 2	LF		31.94	24.52	40.00	-15.48	V	Peak	Pass	-

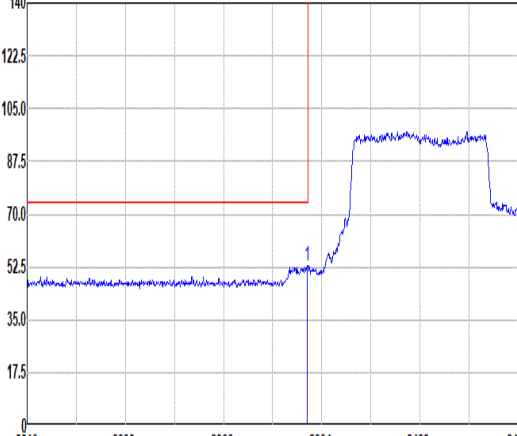
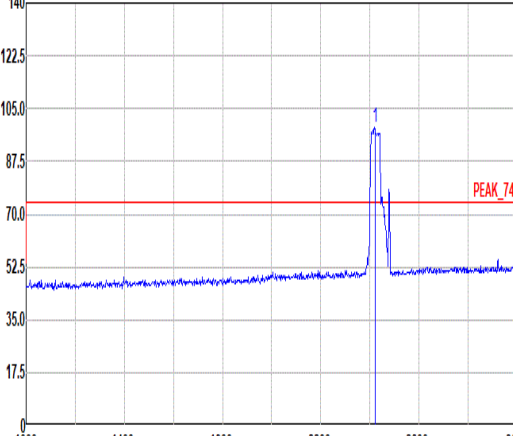
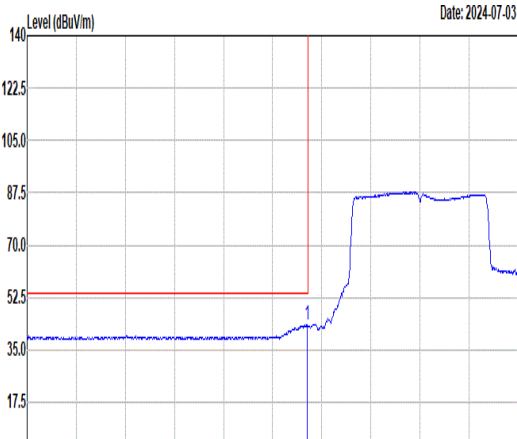
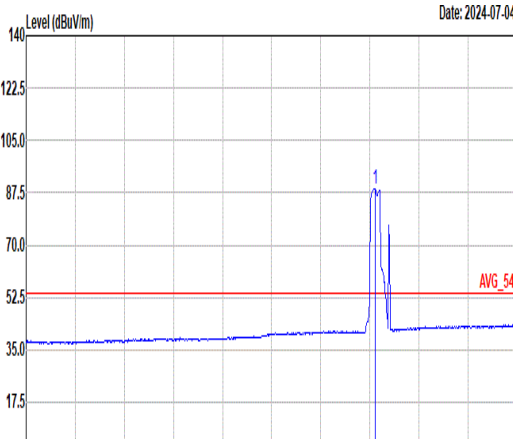


Mode	1																																																											
	Band Edge																																																											
	2400-2483.5_Bluetooth-LE_GSKF_CH38_2478MHz+11ax HE40_CH03_Full RU_2422MHz+Band 42 link+ NFC																																																											
ANT	7																																																											
Pol.	Horizontal	Fundamental																																																										
Peak	Level (dBuV/m) Date: 2024-07-03 Frequency (MHz) <table><thead><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2489.68</td><td>49.81</td><td>74.00</td><td>-24.19</td><td>47.51</td><td>30.88</td><td>4.93</td><td>33.51</td><td>172</td><td>50 Peak</td></tr></tbody></table>	Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	cm	deg	1	2489.68	49.81	74.00	-24.19	47.51	30.88	4.93	33.51	172	50 Peak	Level (dBuV/m) Date: 2024-07-04 Frequency (MHz) <table><thead><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2478.00</td><td>91.34</td><td>-----</td><td>-----</td><td>89.12</td><td>30.83</td><td>4.91</td><td>33.52</td><td>172</td><td>50 Peak</td></tr></tbody></table>	Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	cm	deg	1	2478.00	91.34	-----	-----	89.12	30.83	4.91	33.52	172	50 Peak
	Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																				
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	cm	deg																																																			
1	2489.68	49.81	74.00	-24.19	47.51	30.88	4.93	33.51	172	50 Peak																																																		
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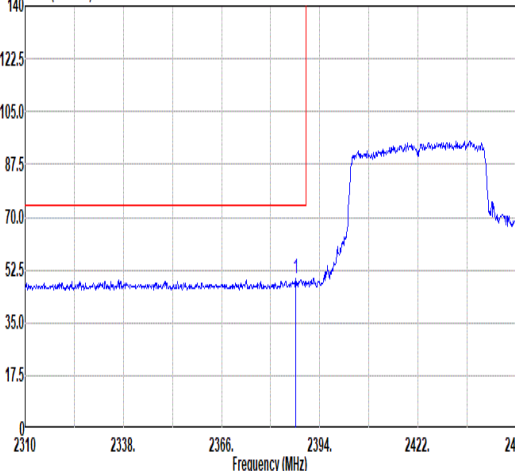
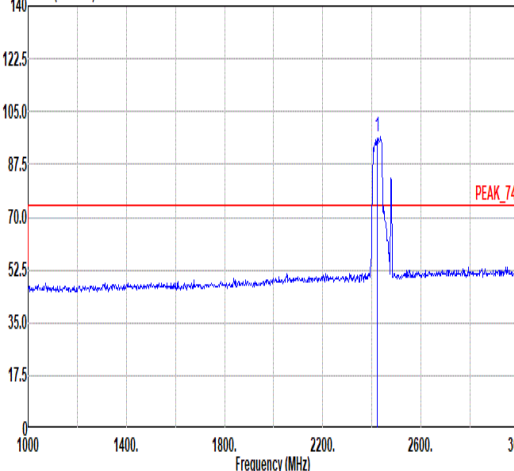
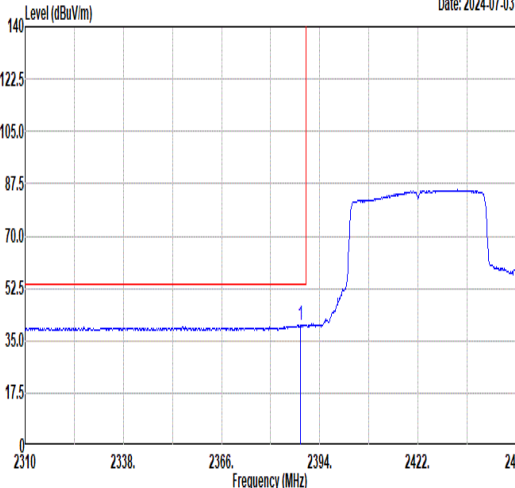
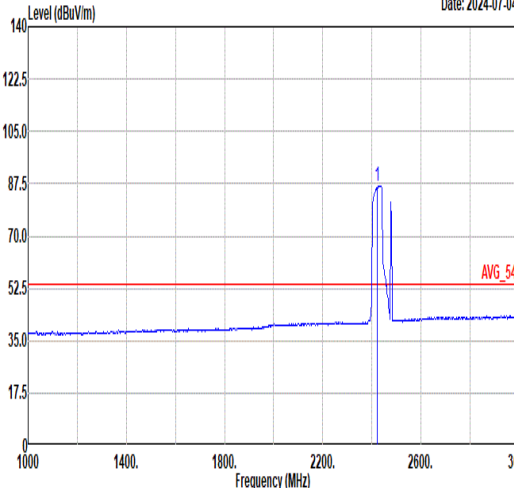


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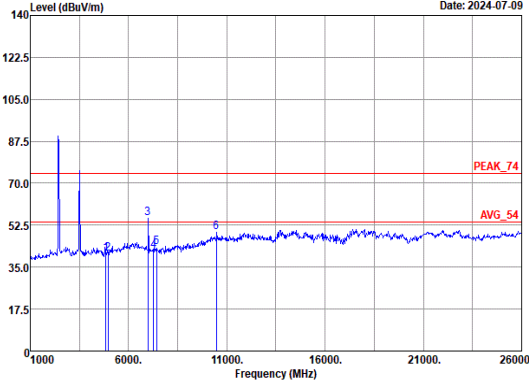
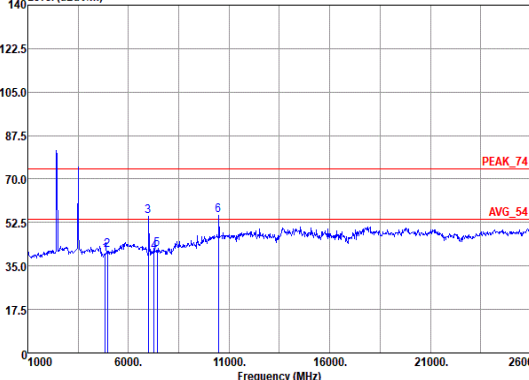


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Limit	Read	Ant	Cable	Preamp	APos	TPos																																				
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Note: the highest signals over limit are BLE + WLAN + LTE B41 co-location fundamental signals.



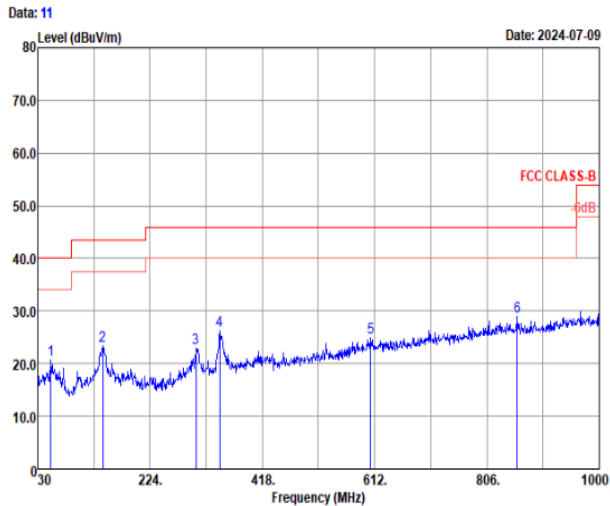
2

LF

2400-2483.5_Bluetooth-LE_GSKF_CH38_2478MHz+11ax HE40_CH03_Full RU_2422MHz+Band 42 link+ NFC ON

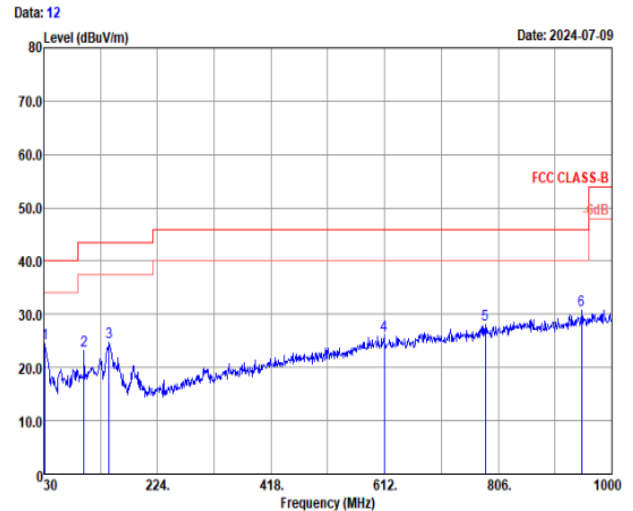
5

Horizontal



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	52.31	20.73	-19.27	40.00	35.41	19.53	0.74	34.95	---	Peak
2	142.52	23.49	-20.01	43.50	38.61	18.35	1.25	34.72	---	Peak
3	303.54	22.91	-23.09	46.00	36.50	19.20	1.81	34.60	---	Peak
4	344.28	26.25	-19.75	46.00	38.84	20.09	1.92	34.60	---	Peak
5	605.21	24.91	-21.09	46.00	30.77	26.11	2.62	34.59	---	Peak
6	858.38	28.91	-17.09	46.00	31.33	28.77	3.11	34.30	---	Peak

Vertical



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.94	24.52	-15.48	40.00	40.75	18.01	0.56	34.80	---	Peak
2	98.87	23.10	-20.40	43.50	42.08	14.78	1.04	34.80	---	Peak
3	141.55	24.84	-18.66	43.50	40.04	18.27	1.25	34.72	---	Peak
4	611.03	26.00	-20.00	46.00	31.83	26.12	2.63	34.58	---	Peak
5	783.69	27.97	-18.03	46.00	31.55	27.76	3.00	34.34	---	Peak
6	948.59	30.77	-15.23	46.00	32.07	29.74	3.26	34.30	---	Peak