



Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2301-1
FCC ID : IHDT56AH1
STANDARD : 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) : Nov. 24, 2022 ~ Dec. 19, 2022

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.

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)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
292622	Rev. 01	Initial issue of report	Dec. 12, 2022
292622	Rev. 02	Added spot check test data for conducted power /EIRP and CBP	Dec. 20, 2022



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	XT2301-1
FCC ID	IHDT56AH1
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE GNSS/NFC/WPT
IMEI Code	Conducted: 350007550013818/350007550013826 Radiation: 350007550014154/350007550014162 CBP: 350007550023676
HW Version	DVT2
SW Version	TTR33.124
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.



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: XT2301-1, FCC ID: IHDT56AH1) is electrically identical to the reference device (Model: XT2301-4, FCC ID: IHDT56AH3) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX, DCD) and FCC Part 15E (equipment class: NII, 6XD) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AH1 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AH3 and FCC ID: IHDT56AH1 is as below:

- Add LTE Band 14/29/30/46/71 and 5G NR n12/n14/n25/n26/n29/n30/n70/n71/n48.
- Remove LTE Band 19/32/42/43 and 5G NR n8/n40.

Other differences and all the details of similarity and difference can be found in the confidential documents (XT2301-1_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID(Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	IHDT56AH3	Original Grant	FR282619A	IHDT56AH1	All sections applicable
	DTS (BLE)	2400~2483.5	IHDT56AH3	Original Grant	FR282619B	IHDT56AH1	All sections applicable
	DTS (WLAN)	2400~2483.5	IHDT56AH3	Original Grant	FR282619C	IHDT56AH1	All sections applicable
	DXX (NFC)	13.56	IHDT56AH3	Original Grant	FR282619D	IHDT56AH1	All sections applicable
	DCD (WPT)	0.111~0.148	IHDT56AH3	Original Grant	FR282619E	IHDT56AH1	All sections applicable
15E	NII	5150~5250	IHDT56AH3	Original Grant	FR282619F	IHDT56AH1	All sections applicable
	NII	5250~5350	IHDT56AH3	Original Grant	FR282619F, FZ282619	IHDT56AH1	All sections applicable
	NII	5470~5725	IHDT56AH3	Original Grant	FR282619F, FZ282619	IHDT56AH1	All sections applicable
	NII	5725~5850	IHDT56AH3	Original Grant	FR282619F	IHDT56AH1	All sections applicable
	6XD	5925~7125	IHDT56AH3	Original Grant	FR282619G	IHDT56AH1	All sections applicable



2.4 Spot Check Verification Data Section

Conducted power test and radiated spurious emission 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

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

Test Item	Mode	IHDT56AH3 Parent Worst Result	IHDT56AH1 Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT 3DH5 CH39 Ant1	15.98	14.56	-1.42
	BT 3DH5 CH39 Ant2	14.89	14.24	-0.65
	BLE 1M CH19 Ant0	14.02	12.24	-1.78
	BLE 1M CH19 Ant1	13.56	11.45	-2.11
	BLE 2M CH19 Ant0	13.99	12.33	-1.66
	BLE 2M CH19 Ant1	13.62	11.50	-2.12
	WLAN 2.4G 11b CH1 Setting 20	26.83	26.79	-0.04
	WLAN 2.4G 11g CH06 Setting 20	27.77	27.68	-0.09
	WLAN 2.4G 11gN20 CH06 Setting 20	28.11	28.07	-0.04
	WLAN 2.4G 11gN40 CH06 Setting 14.5	24.03	23.96	-0.06
	WLAN 2.4G 11ax20 CH06 106RU Setting 14.5	26.11	25.98	-0.13
	WLAN 2.4G 11ax20 CH06 Setting 20	28.40	28.34	-0.07
	WLAN 2.4G 11ax40 CH06 Setting 14.5	24.17	24.12	-0.05
	WLAN 5G 11a CH140 Setting 19	21.55	21.49	-0.06
	WLAN 5G 11a CH165 Setting 20	22.53	22.37	-0.16
	WLAN 5G 11aN20 CH48 Setting 18	20.72	20.64	-0.08
	WLAN 5G 11aN20 CH165 Setting 18	20.49	20.45	-0.04
	WLAN 5G 11aN40 CH54 Setting 18	21.28	21.20	-0.08
	WLAN 5G 11aN40 CH159 Setting 18	21.01	20.98	-0.03
	WLAN 5G 11aC20 CH48 Setting 18	20.75	20.74	-0.01
	WLAN 5G 11aC20 CH165 Setting 18	20.52	20.47	-0.05
	WLAN 5G 11aC40 CH54 Setting 18	21.31	21.21	-0.10
	WLAN 5G 11aC40 CH159 Setting 18	21.04	20.99	-0.05
	WLAN 5G 11aC80 CH122 Setting 18	21.14	21.10	-0.04
	WLAN 5G 11aC80 CH155 Setting 18	20.99	20.92	-0.07
	WLAN 5G 11aC160 CH114 Setting 15.5	19.03	18.67	-0.36
	WLAN 5G 11ax20 CH48 Setting 18	20.78	20.75	-0.03
	WLAN 5G 11ax20 CH165 Setting 18	20.56	20.55	-0.01
	WLAN 5G 11ax40 CH54 Setting 18	21.39	21.37	-0.02
	WLAN 5G 11ax40 CH159 Setting 18	21.10	21.04	-0.06
	WLAN 5G 11ax80 CH122 Setting 18	21.19	21.13	-0.06
	WLAN 5G 11ax80 CH155 Setting 18	21.03	20.91	-0.12
	WLAN 5G 11ax160 CH114 Setting 15.5	19.09	19.01	-0.08
	WLAN 5G 11ax20 CH48 RU106/54 Setting 13.5	17.02	16.95	-0.07
WLAN 5G 11ax20 CH149 RU106/53 Setting 14	17.38	17.28	-0.10	
WLAN 6G 11a CH97 Setting 11	13.80	12.69	-1.11	
WLAN 6G 11ax20 CH97 Setting 11	13.84	12.74	-1.10	
WLAN 6G 11ax40 CH107 Setting 11	14.30	11.40	-2.90	
WLAN 6G 11ax80 CH103 Setting 11	14.08	12.52	-1.56	
WLAN 6G 11ax160 CH111 Setting 11	14.45	10.54	-3.91	
WLAN 6G 11ax20 CH105 RU106/53 Setting 6.5	9.89	9.89	0	
Radiated Spurious	BT CH78 BE	-18.16	-29.0	-10.84
	BLE CH39 BE	-3.69	-3.04	0.65



Emission (dBμV/m)	WLAN 2.4G 11b CH06 Harmonic	-3.12	-11.65	-8.53
	WLAN 5G UNII-2A 11ax HE20 CH64 BE	-7.04	-13.08	-6.04
	WLAN 5G UNII-3 11ax HE20 CH165 BE	-12.57	-15.19	-2.62
	WLAN 6G U-NII 5 11ax HE20 Partial 106/53 CH02 BE	-3.55	-3.16	0.39
Field Strength (dBuV/m) @ 30m	WPT Mode 2 (Level)	76.65	71.44	-5.23
	NFC (Level)	54.02	53.01	-1.01

Test Item	Mode	IHDT56AH3 Parent Worst Result (Adjusted Power) (dBm)	IHDT56AH1 Variant Check Result (Adjusted Power) (dBm)	Difference (dB)
CBP	UNII-6 BW160M CH Freq. 6580MHz	-63.57	-68.19	-4.62

EIRP Power Table for U-NII-5~8

U-NII-5 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
11a	6Mbps	2	5935	0.04	0.04	2.72	3.98	6.41	-6.80	-0.39	24.00	Pass	
11a	6Mbps	2	5955	0.04	0.04	8.48	8.84	11.68	-6.80	4.88	24.00	Pass	
11a	6Mbps	2	6175	0.04	0.04	8.48	9.50	12.04	-6.80	5.24	24.00	Pass	
11a	6Mbps	2	6415	0.04	0.04	9.00	10.38	12.76	-6.80	5.96	24.00	Pass	

U-NII-5 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
HE20	MCS0	2	5935	Full	0.00	0.00	-10.94	-12.71	-8.73	-6.80	-15.53	24.00	Pass	
HE20	MCS0	2	5935	26/0	0.17	0.19	-20.91	-21.57	-18.22	-6.80	-25.02	24.00	Pass	
HE20	MCS0	2	5935	52/37	0.19	0.19	-17.36	-18.96	-15.07	-6.80	-21.87	24.00	Pass	
HE20	MCS0	2	5935	106/53	0.21	0.21	-14.33	-15.98	-12.07	-6.80	-18.87	24.00	Pass	
HE20	MCS0	2	5955	Full	0.00	0.00	8.46	8.81	11.65	-6.80	4.85	24.00	Pass	
HE20	MCS0	2	5955	26/0	0.06	0.04	1.03	-0.19	3.47	-6.80	-3.33	24.00	Pass	
HE20	MCS0	2	5955	52/37	0.05	0.05	3.52	2.45	6.03	-6.80	-0.77	24.00	Pass	
HE20	MCS0	2	5955	106/53	0.05	0.05	7.06	5.33	9.29	-6.80	2.49	24.00	Pass	
HE20	MCS0	2	6175	Full	0.00	0.00	8.59	9.58	12.12	-6.80	5.32	24.00	Pass	
HE20	MCS0	2	6175	26/4	0.06	0.04	0.64	-0.85	2.97	-6.80	-3.83	24.00	Pass	
HE20	MCS0	2	6175	52/39	0.05	0.05	3.51	1.98	5.83	-6.80	-0.97	24.00	Pass	
HE20	MCS0	2	6175	106/53	0.05	0.05	6.52	4.94	8.81	-6.80	2.01	24.00	Pass	
HE20	MCS0	2	6415	Full	0.00	0.00	9.15	10.46	12.86	-6.80	6.06	24.00	Pass	
HE20	MCS0	2	6415	26/8	0.06	0.04	1.08	-0.36	3.43	-6.80	-3.37	24.00	Pass	
HE20	MCS0	2	6415	52/40	0.05	0.05	3.55	2.16	5.92	-6.80	-0.88	24.00	Pass	
HE20	MCS0	2	6415	106/54	0.05	0.05	6.46	5.00	8.80	-6.80	2.00	24.00	Pass	
HE40	MCS0	2	5965	Full	0.00	0.00	8.46	8.84	11.66	-6.80	4.86	24.00	Pass	
HE40	MCS0	2	6165	Full	0.00	0.00	8.92	10.09	12.55	-6.80	5.75	24.00	Pass	
HE40	MCS0	2	6405	Full	0.00	0.00	9.28	10.12	12.73	-6.80	5.93	24.00	Pass	



HE80	MCS0	2	5985	Full	0.00	0.00	8.42	9.10	11.78	-6.80	4.98	24.00	Pass
HE80	MCS0	2	6145	Full	0.00	0.00	8.88	9.86	12.41	-6.80	5.61	24.00	Pass
HE80	MCS0	2	6385	Full	0.00	0.00	9.09	10.06	12.61	-6.80	5.81	24.00	Pass
HE160	MCS0	2	6025	Full	0.00	0.00	8.12	9.00	11.59	-6.80	4.79	24.00	Pass
HE160	MCS0	2	6185	Full	0.00	0.00	6.69	7.91	10.35	-6.80	3.55	24.00	Pass
HE160	MCS0	2	6345	Full	0.00	0.00	9.21	9.98	12.62	-6.80	5.82	24.00	Pass

U-NII-6 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
11a	6Mbps	2	6435	0.04	0.04	9.10	10.19	12.69	-7.50	5.19	24.00	Pass	
11a	6Mbps	2	6475	0.04	0.04	9.03	10.08	12.60	-7.50	5.10	24.00	Pass	
11a	6Mbps	2	6515	0.04	0.04	8.49	8.85	11.69	-7.50	4.19	24.00	Pass	

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
HE20	MCS0	2	097	6435	Full	0.00	0.00	9.12	10.26	12.74	-7.50	5.24	24.00	Pass	
HE20	MCS0	2	097	6435	26/0	0.06	0.04	1.85	0.45	4.22	-7.50	-3.28	24.00	Pass	
HE20	MCS0	2	097	6435	52/37	0.05	0.05	4.91	3.56	7.30	-7.50	-0.20	24.00	Pass	
HE20	MCS0	2	097	6435	106/53	0.05	0.05	7.35	6.12	9.78	-7.50	2.28	24.00	Pass	
HE20	MCS0	2	105	6475	Full	0.00	0.00	9.14	10.16	12.69	-7.50	5.19	24.00	Pass	
HE20	MCS0	2	105	6475	26/0	0.06	0.04	1.66	0.71	4.22	-7.50	-3.28	24.00	Pass	
HE20	MCS0	2	105	6475	52/37	0.05	0.05	5.11	3.98	7.60	-7.50	0.10	24.00	Pass	
HE20	MCS0	2	105	6475	106/53	0.05	0.05	7.35	6.35	9.89	-7.50	2.39	24.00	Pass	
HE20	MCS0	2	113	6515	Full	0.00	0.00	8.34	9.00	11.69	-7.50	4.19	24.00	Pass	
HE20	MCS0	2	113	6515	26/8	0.06	0.04	1.39	0.07	3.79	-7.50	-3.71	24.00	Pass	
HE20	MCS0	2	113	6515	52/40	0.05	0.05	4.83	3.83	7.37	-7.50	-0.13	24.00	Pass	
HE20	MCS0	2	113	6515	106/54	0.05	0.05	7.14	5.92	9.58	-7.50	2.08	24.00	Pass	
HE40	MCS0	2	099	6445	Full	0.00	0.00	9.05	10.17	12.66	-7.50	5.16	24.00	Pass	
HE40	MCS0	2	107	6485	Full	0.00	0.00	7.87	8.85	11.40	-7.50	3.90	24.00	Pass	
HE40	MCS0	2	115	6525	Full	0.00	0.00	9.04	9.99	12.55	-7.50	5.05	24.00	Pass	
HE80	MCS0	2	103	6465	Full	0.00	0.00	8.98	9.99	12.52	-7.50	5.02	24.00	Pass	
HE80	MCS0	2	119	6545	Full	0.00	0.00	8.60	8.46	11.54	-7.50	4.04	24.00	Pass	
HE160	MCS0	2	111	6505	Full	0.00	0.00	7.19	7.84	10.54	-7.50	3.04	24.00	Pass	



U-NII-7 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
11a	6Mbps	2	6535	0.04	0.04	7.07	7.88	10.51	-7.70		2.81	24.00	Pass
11a	6Mbps	2	6695	0.04	0.04	7.13	7.86	10.53	-7.70		2.83	24.00	Pass
11a	6Mbps	2	6855	0.04	0.04	6.71	7.71	10.25	-7.70		2.55	24.00	Pass

U-NII-7 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
HE20	MCS0	2	6535	Full	0.00	0.00	7.17	7.99	10.61	-7.70		2.91	24.00	Pass
HE20	MCS0	2	6535	26/0	0.06	0.04	-1.35	-2.76	1.01	-7.70		-6.69	24.00	Pass
HE20	MCS0	2	6535	52/37	0.05	0.05	1.58	0.17	3.95	-7.70		-3.75	24.00	Pass
HE20	MCS0	2	6535	106/53	0.05	0.05	4.97	3.58	7.34	-7.70		-0.36	24.00	Pass
HE20	MCS0	2	6695	Full	0.00	0.00	7.21	7.96	10.61	-7.70		2.91	24.00	Pass
HE20	MCS0	2	6695	26/4	0.06	0.04	-1.35	-2.13	1.29	-7.70		-6.41	24.00	Pass
HE20	MCS0	2	6695	52/38	0.05	0.05	1.34	0.94	4.16	-7.70		-3.54	24.00	Pass
HE20	MCS0	2	6695	106/53	0.05	0.05	4.90	3.90	7.44	-7.70		-0.26	24.00	Pass
HE20	MCS0	2	6855	Full	0.00	0.00	6.79	7.79	10.33	-7.70		2.63	24.00	Pass
HE20	MCS0	2	6855	26/8	0.06	0.04	-1.73	-2.58	0.88	-7.70		-6.82	24.00	Pass
HE20	MCS0	2	6855	52/40	0.05	0.05	1.15	-0.06	3.60	-7.70		-4.10	24.00	Pass
HE20	MCS0	2	6855	106/54	0.05	0.05	4.56	3.23	6.96	-7.70		-0.74	24.00	Pass
HE40	MCS0	2	6565	Full	0.00	0.00	7.61	8.73	11.22	-7.70		3.52	24.00	Pass
HE40	MCS0	2	6685	Full	0.00	0.00	7.57	8.45	11.04	-7.70		3.34	24.00	Pass
HE40	MCS0	2	6845	Full	0.00	0.00	7.37	8.29	10.86	-7.70		3.16	24.00	Pass
HE80	MCS0	2	6625	Full	0.00	0.00	7.41	8.27	10.87	-7.70		3.17	24.00	Pass
HE80	MCS0	2	6705	Full	0.00	0.00	7.45	8.16	10.83	-7.70		3.13	24.00	Pass
HE80	MCS0	2	6785	Full	0.00	0.00	7.51	8.09	10.82	-7.70		3.12	24.00	Pass
HE80	MCS0	2	6865	Full	0.00	0.00	6.95	7.82	10.42	-7.70		2.72	24.00	Pass
HE160	MCS0	2	6665	Full	0.00	0.00	7.96	8.76	11.39	-7.70		3.69	24.00	Pass
HE160	MCS0	2	6825	Full	0.00	0.00	6.72	6.85	9.80	-7.70		2.10	24.00	Pass

U-NII-8 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
11a	6Mbps	2	6875	0.04	0.04	6.46	7.48	10.02	-7.20		2.82	24.00	Pass
11a	6Mbps	2	6895	0.04	0.04	9.19	10.05	12.66	-7.20		5.46	24.00	Pass
11a	6Mbps	2	6995	0.04	0.04	9.27	10.08	12.71	-7.20		5.51	24.00	Pass
11a	6Mbps	2	7095	0.04	0.04	8.85	9.86	12.40	-7.20		5.20	24.00	Pass
11a	6Mbps	2	7115	0.04	0.00	6.80	7.99	10.45	-7.20		3.25	24.00	Pass



U-NII-8 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 5	Ant 7	Ant 5	SUM	Ant 7	Ant 5			
HE20	MCS0	2	6875	Full	0.00	0.00	6.58	7.61	10.14	-7.20	2.94	24.00	Pass	
HE20	MCS0	2	6875	26/0	0.06	0.04	-1.46	-2.57	1.03	-7.20	-6.17	24.00	Pass	
HE20	MCS0	2	6875	52/37	0.05	0.05	1.42	0.17	3.85	-7.20	-3.35	24.00	Pass	
HE20	MCS0	2	6875	106/53	0.05	0.05	4.79	3.53	7.21	-7.20	0.01	24.00	Pass	
HE20	MCS0	2	6895	Full	0.00	0.00	9.31	10.25	12.82	-7.20	5.62	24.00	Pass	
HE20	MCS0	2	6895	26/0	0.06	0.04	-1.55	0.36	2.52	-7.20	-4.68	24.00	Pass	
HE20	MCS0	2	6895	52/37	0.05	0.05	1.38	3.11	5.34	-7.20	-1.86	24.00	Pass	
HE20	MCS0	2	6895	106/53	0.05	0.05	4.67	5.68	8.21	-7.20	1.01	24.00	Pass	
HE20	MCS0	2	6995	Full	0.00	0.00	9.36	10.16	12.79	-7.20	5.59	24.00	Pass	
HE20	MCS0	2	6995	26/4	0.06	0.04	0.95	0.55	3.77	-7.20	-3.43	24.00	Pass	
HE20	MCS0	2	6995	52/38	0.05	0.05	4.43	3.60	7.05	-7.20	-0.15	24.00	Pass	
HE20	MCS0	2	6995	106/53	0.05	0.05	6.58	5.96	9.29	-7.20	2.09	24.00	Pass	
HE20	MCS0	2	7095	Full	0.00	0.00	7.90	8.98	11.48	-7.20	4.28	24.00	Pass	
HE20	MCS0	2	7095	26/4	0.06	0.04	1.26	0.52	3.92	-7.20	-3.28	24.00	Pass	
HE20	MCS0	2	7095	52/38	0.05	0.05	3.67	2.77	6.26	-7.20	-0.94	24.00	Pass	
HE20	MCS0	2	7095	106/53	0.05	0.05	6.64	6.13	9.40	-7.20	2.20	24.00	Pass	
HE20	MCS0	2	7115	Full	0.00	0.00	-3.32	-3.84	-0.56	-7.20	-7.76	24.00	Pass	
HE20	MCS0	2	7115	26/8	0.06	0.04	-11.44	-12.26	-8.82	-7.20	-16.02	24.00	Pass	
HE20	MCS0	2	7115	52/40	0.05	0.05	-9.06	-9.97	-6.48	-7.20	-13.68	24.00	Pass	
HE20	MCS0	2	7115	106/54	0.05	0.05	-6.11	-6.87	-3.47	-7.20	-10.67	24.00	Pass	
HE40	MCS0	2	6885	Full	0.00	0.00	7.13	7.94	10.56	-7.20	3.36	24.00	Pass	
HE40	MCS0	2	6925	Full	0.00	0.00	9.26	10.17	12.75	-7.20	5.55	24.00	Pass	
HE40	MCS0	2	6965	Full	0.00	0.00	9.19	10.14	12.70	-7.20	5.50	24.00	Pass	
HE40	MCS0	2	7085	Full	0.00	0.00	8.00	9.00	11.54	-7.20	4.34	24.00	Pass	
HE80	MCS0	2	6945	Full	0.00	0.00	9.25	10.02	12.66	-7.20	5.46	24.00	Pass	
HE80	MCS0	2	7025	Full	0.00	0.00	8.03	8.98	11.54	-7.20	4.34	24.00	Pass	
HE160	MCS0	2	6985	Full	0.00	0.00	6.68	7.46	10.10	-7.20	2.90	24.00	Pass	



Conclusion:

Conducted Power and Radiated spurious emission 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. The power level and RSE spot check are shown within expected level compliant to limit line.

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

The same DFS detection mechanism/software is used in the variant. Hence, there is no spot check data for DFS hand-shaking mechanism.

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

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	Dec. 02, 2022~Dec. 19, 2022	Dec. 26, 2022	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2021	Dec. 02, 2022~Dec. 19, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2021	Dec. 02, 2022~Dec. 19, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 06, 2022	Nov. 24, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 06, 2022	Nov. 24, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Nov. 24, 2022	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 09, 2021	Nov. 24, 2022	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	Nov. 24, 2022	Apr. 07, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Nov. 24, 2022	Jul. 05, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 10, 2022	Nov. 24, 2022	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 19, 2022	Nov. 24, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Nov. 24, 2022	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2021	Nov. 24, 2022	Dec. 26, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Nov. 10, 2022	Nov. 24, 2022	Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 24, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 24, 2022	NCR	Radiation (03CH03-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2021	Dec. 19, 2022	Dec. 27, 2022	CBP (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 07, 2022	Dec. 19, 2022	Apr. 08, 2023	CBP (DFS01-SZ)
Signal Generator	Keysight	N5182BX07	MY59360201	9KHz~7.2GHz	NCR	Dec. 19, 2022	NCR	CBP (DFS01-SZ)
Shielding Box	Hongyitong	182-200	AGTE2013182200016	Shielded Effect: MAX 70dB	Oct. 25, 2021	Dec. 19, 2022	Oct. 24, 2022	CBP (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 06, 2022	Dec. 19, 2022	Sep. 05, 2023	CBP (DFS01-SZ)

NCR: No Calibration Required.

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