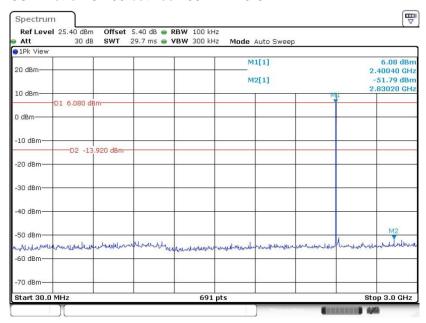
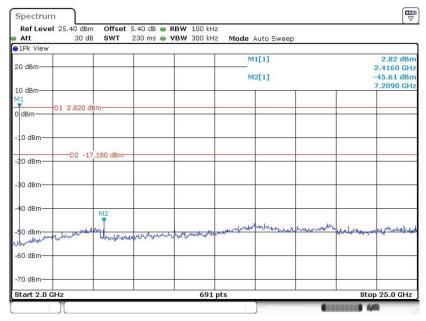
#### <3Mbps>

#### CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 17.NOV.2022 21:07:43

#### CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



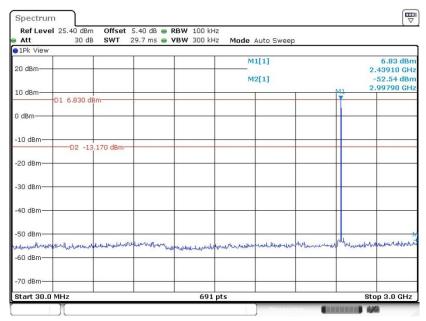
Date: 17.NOV.2022 21:08:09

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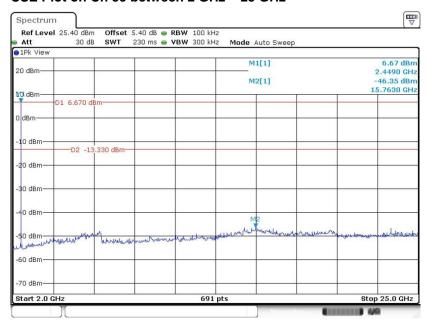
Report No.: FR2O2417A

#### CSE Plot on Ch 39 between 30MHz ~ 3 GHz



#### Date: 17.NOV.2022 21:36:30

#### CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

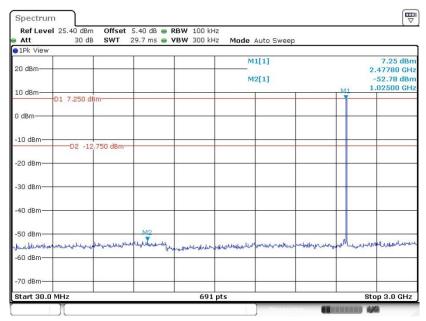


Date: 17.NOV.2022 21:36:58

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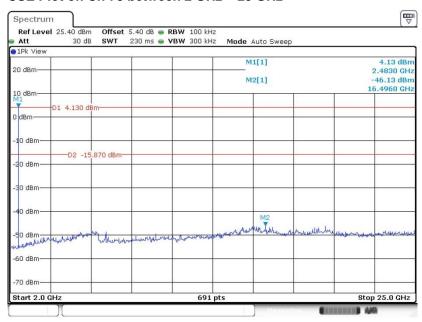
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#### CSE Plot on Ch 78 between 30MHz ~ 3 GHz



#### Date: 17.NOV.2022 21:42:01

#### CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 17.NOV.2022 21:42:29

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF Report No.: FR2O2417A

## 3.8 Radiated Band Edges and Spurious Emission Measurement

#### 3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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#### 3.8.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time =  $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$ 

Where  $N_1$  is number of type 1 pulses,  $L_1$  is length of type 1 pulses, etc.

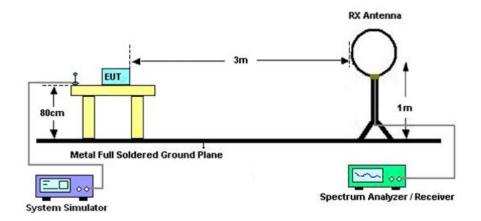
Average Emission Level = Peak Emission Level + 20\*log(Duty cycle)

- 6. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

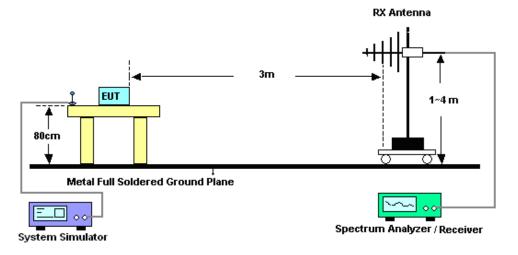
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.76dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

#### 3.8.4 Test Setup

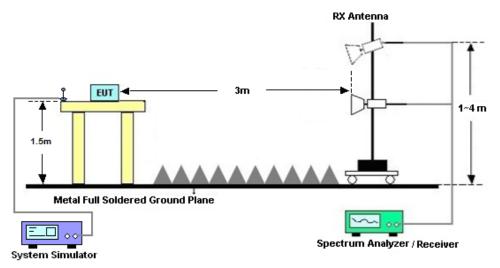
#### For radiated emissions below 30MHz



#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz



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#### 3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

#### 3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

# 3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

#### 3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix D.

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#### 3.9 AC Conducted Emission Measurement

#### 3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Eroquonov of omission (MUz)	Conducted limit (dBμV)			
Frequency of emission (MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

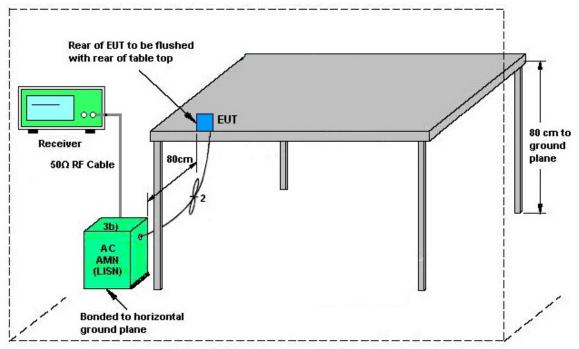
#### 3.9.3 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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### 3.9.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

#### 3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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## 3.10 Antenna Requirements

#### 3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

#### 3.10.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

#### 3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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# 4 List of Measuring Equipment

Instrument Manufacture		Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Nov. 11, 2022~ Nov. 17, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 05, 2022	Nov. 11, 2022~ Nov. 17, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Nov. 11, 2022~ Nov. 17, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 13, 2022	Nov. 19, 2022~ Nov. 30, 2022	Oct. 12, 2023	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY602421 26	10Hz-44GHz	Oct. 13, 2022	Nov. 19, 2022~ Nov. 30, 2022	Oct. 12, 2023	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Nov. 19, 2022~ Nov. 30, 2022	Oct. 15, 2023	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 24, 2022	Nov. 19, 2022~ Nov. 30, 2022	May 23, 2023	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 18, 2022	Nov. 19, 2022~ Nov. 30, 2022	Apr. 17, 2023	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2022	Nov. 19, 2022~ Nov. 30, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
Amplifier	Amplifier SONOMA		380827	9KHz ~1GHZ	Jul. 11, 2022	Nov. 19, 2022~ Nov. 30, 2022	Jul. 10, 2023	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Nov. 19, 2022~ Nov. 30, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 05, 2022	Nov. 19, 2022~ Nov. 30, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532703 19	500MHz~26.5G Hz	Oct. 12, 2022	Nov. 19, 2022~ Nov. 30, 2022	Oct. 11, 2023	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Nov. 19, 2022~ Nov. 30, 2022	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 19, 2022~ Nov. 30, 2022	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 19, 2022~ Nov. 30, 2022	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Nov. 16, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Nov. 16, 2022	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	May 24, 2022	Nov. 16, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Nov. 16, 2022	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

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## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. 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.

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#### **Uncertainty of Conducted Measurement**

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %
Conducted Power Spectral Density	±0.40 dB

#### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.78 dB
of 95% (U = 2Uc(y))	2.70 UD

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

E 0 -ID
5.0 dB

#### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

#### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	3.0 db

----- THE END -----

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# **Appendix A. Conducted Test Results**

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Report Number : FR2O2417A

Test Engineer:	Kib Shi	Temperature:	20~26	°C
Test Date:	2022/11/11~2022/11/17	Relative Humidity:	40~51	%

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#### **Bluetooth**

Test Engineer:	Kib Shi	Temperature:	20~26	°C
Test Date:	2022/11/11~2022/11/17	Relative Humidity:	40~51	%

#### TEST RESULTS DATA 20dB and 99% Occupied Bandwidth and Hopping Channel Separation

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (kHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.935	0.863	998.600	0.6233	Pass
DH	1Mbps	1	39	2441	0.938	0.863	1141.800	0.6252	Pass
DH	1Mbps	1	78	2480	0.935	0.860	994.200	0.6233	Pass
2DH	2Mbps	1	0	2402	1.255	1.166	998.600	0.8365	Pass
2DH	2Mbps	1	39	2441	1.255	1.169	998.600	0.8365	Pass
2DH	2Mbps	1	78	2480	1.255	1.169	1002.900	0.8365	Pass
3DH	3Mbps	1	0	2402	1.237	1.152	1302.500	0.8249	Pass
3DH	3Mbps	1	39	2441	1.237	1.152	1002.900	0.8249	Pass
3DH	3Mbps	1	78	2480	1.216	1.155	1002.900	0.8104	Pass

# TEST RESULTS DATA Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.9101	0.31	0.4	Pass
AFH	20	53.33	2.9101	0.16	0.4	Pass

# TEST RESULTS DATA Peak Power Table

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
	0	1	8.96	20.97	Pass
DH1	39	1	9.60	20.97	Pass
	78	1	9.50	20.97	Pass

	2DH	CH.	NTX	Peak Power	Power Limit	Test
2011	ZDH			(dBm)	(dBm)	Result
		0	1	9.66	20.97	Pass
	2DH1	39	1	10.51	20.97	Pass
		78	1	10.35	20.97	Pass

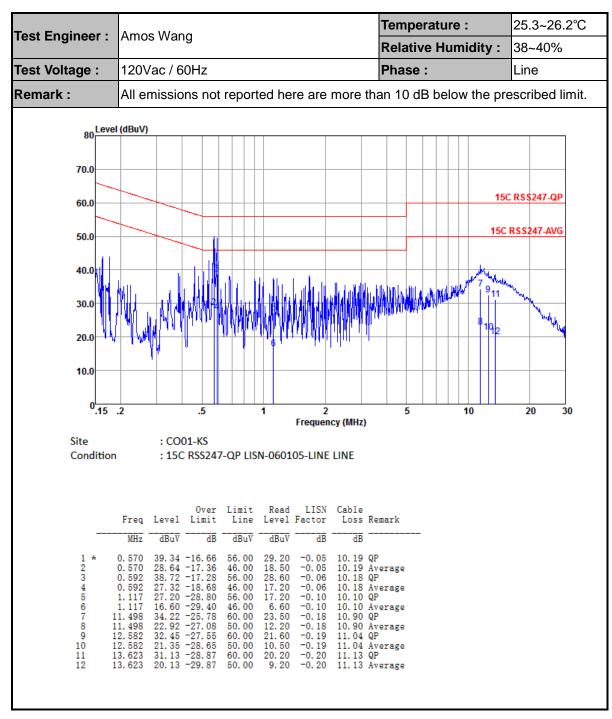
3DH	CH.	NTX	Peak Power	Power Limit	Test
			(dBm)	(dBm)	Result
	0	1	9.98	20.97	Pass
3DH1	39	1	10.66	20.97	Pass
	78	1	10.62	20.97	Pass

#### TEST RESULTS DATA

#### Number of Hopping Frequency

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

# **Appendix B. AC Conducted Emission Test Results**



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF

Temperature: 25.3~26.2°C Test Engineer: **Amos Wang Relative Humidity:** 38~40% Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 80 Level (dBuV) 70.0 15C RS\$247-QP 60.0 15C RSS247-AVG 50.0 40.0 30.0 20.0 10.0 0.15 .2 10 2 30 Frequency (MHz) Site : CO01-KS Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL Over Limit Read LISN Cable Line Level Factor Loss Remark Level Limit MHz dBuV dB dBuV dBuV dB 33.34 -22.93 27.74 -18.53 36.71 -19.29 30.41 -15.59 44.61 -11.39 56. 27 46. 27 56. 00 -0.08 -0.08 10.22 QP 10.22 Average 10.20 QP 23. 20 17. 60 26. 59 20. 29 34. 50 28. 90 21. 50 14. 60 21. 51 14. 21 0.484 -0.08 46. 00 56. 00 10.20 Average 10.19 QP 0.549 0.573 -0. 08 -0. 08 44. 61 -11. 39 39. 01 -6. 99 32. 16 -27. 84 25. 26 -24. 74 32. 30 -27. 70 25. 00 -25. 00 29. 72 -30. 28 22. 22 -27. 78 46. 00 60. 00 50. 00 -0. 08 -0. 19 10.19 Average 10.85 QP

10.98 QP 10.98 Av

11.10 QP

11.10 Average

Average

-0.19

-0. 18 -0. 18

#### Note:

1. Level(dB $\mu$ V) = Read Level(dB $\mu$ V) + LISN Factor(dB) + Cable Loss(dB)

60.00 50.00

60.00

18.80

11.30

2. Over Limit(dB) = Level(dB $\mu$ V) – Limit Line(dB $\mu$ V)

11.139

11.996

13.337

10

11

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# **Appendix C Radiated Spurious Emission Test Data**

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	8-DPSK	00	2402	3Mbps	-	-
Mode 2	2400-2483.5	8-DPSK	39	2441	3Mbps	-	-
Mode 3	2400-2483.5	8-DPSK	78	2480	3Mbps	-	-

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# Summary of each worse mode

Mode	Modulation	Ch.	Freq.	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
4	8-DPSK	00	2333.53	54.80	74.00	-19.20	Н	PEAK	Pass	Band Edge
1	8-DPSK	00	4804.00	43.61	74.00	-30.39	V	PEAK	Pass	Harmonic
	8-DPSK	39	-	-	-	-	-	-	-	Band Edge
2	8-DPSK	39	4882.00	43.91	74.00	-30.09	V	PEAK	Pass	Harmonic
2	8-DPSK	78	2483.54	59.26	74.00	-14.74	V	PEAK	Pass	Band Edge
3	8-DPSK	78	7440.00	49.95	74.00	-24.05	V	PEAK	Pass	Harmonic

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Limit

Freq Level Line Margin Level Factor Loss Factor Factor

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB

2 2333.53 30.04 54.00 -23.96 18.41 32.06 6.52 32.95 6.00 147 55 AVERAGE

1 2333.53 54.80 74.00 -19.20 43.17 32.06 6.52 32.95 6.00

Read Ant Cable Preamp Aux APos TPos

Remark

55 PEAK

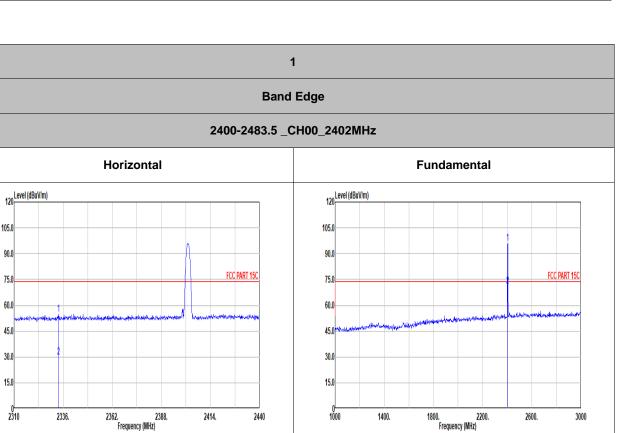
cm deg

Mode

Pol.

Peak/

AVG.



Limit

Freq Level Line Margin Level Factor Loss Factor Factor

2 2402.00 71.11 ----- 59.03 32.30 6.62 32.84 6.00 147

1 2402.00 95.87 ----- 83.79 32.30 6.62 32.84 6.00

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm

Read Ant Cable Preamp Aux APos TPos

Remark

deg

55 PEAK

55 AVERAGE

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF

1 Mode **Band Edge** 2400-2483.5 \_CH00\_2402MHz Pol. Vertical **Fundamental** 120 Level (dBuV/m) 120 Level (dBuV/m) 105.0 105.0 90.0 90.0 FCC PART 150 FCC PART 15C 75.0 75.0 60.0 60.0 45.0 45.0 Peak/ 30.0 30.0 AVG. 15.0 15.0 0<u>--</u> 2310 1000 2336. 2388. 2414. 2440 1400. 3000 Frequency (MHz) Frequency (MHz) Limit Read Ant Cable Preamp Aux APos TPos Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Freq Level Line Margin Level Factor Loss Factor Factor

deg

360 PEAK

360 AVERAGE

| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | | 1 | 2375.39 | 54.67 | 74.00 | -19.33 | 42.74 | 32.23 | 6.58 | 32.88 | 6.00 | 299 |

2 2375.39 29.91 54.00 -24.09 17.98 32.23 6.58 32.88 6.00

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB

cm deg

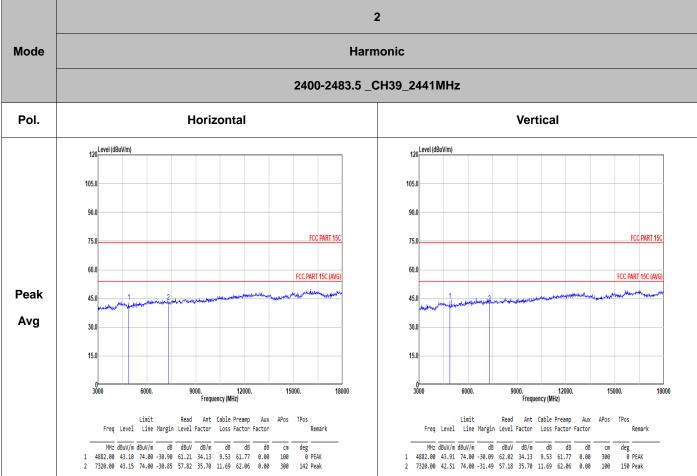
1 Mode Harmonic 2400-2483.5 \_CH00\_2402MHz Pol. Horizontal Vertical 120 Level (dBuV/m) 120 Level (dBuV/m) 105.0 105.0 90.0 90.0 FCC PART 15C FCC PART 15C 75.0 75.0 60.0 60.0 45.0 45.0 Peak 30.0 30.0 Avg 15.0 15.0 0<u>—</u> 3000 3000 6000. 9000, 12000. Frequency (MHz) 15000. 18000 6000. 9000. 12000. Frequency (MHz) 15000. 18000 Read Ant Cable Preamp Aux APos TPos Limit Read Ant Cable Preamp Aux APos TPos Limit Freq Level Line Margin Level Factor Loss Factor Factor Remark Freq Level Line Margin Level Factor Loss Factor Factor Remark

| MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg | 1 4804.00 42.16 74.00 -31.84 60.24 34.30 9.44 61.82 0.00 100 0

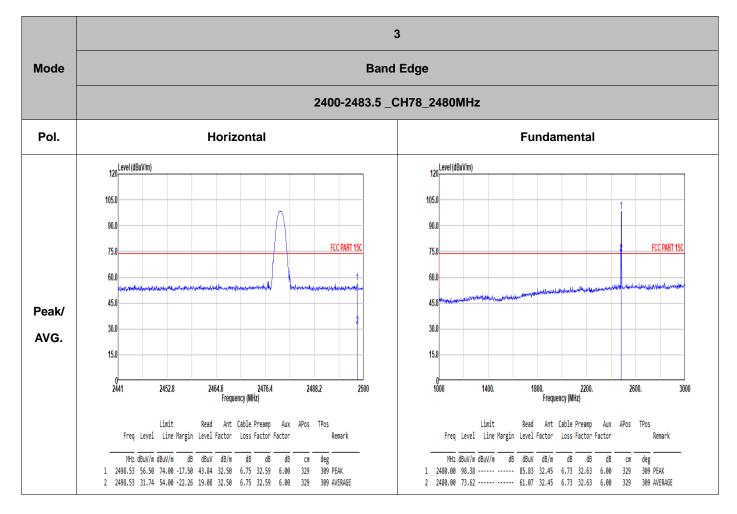
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg

1 4804.00 43.61 74.00 -30.39 61.69 34.30 9.44 61.82 0.00 300

C RF Test Report No. :FR2O2417A



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF C RF Test Report No.:FR2O2417A



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF Limit

Freq Level Line Margin Level Factor Loss Factor Factor

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB

1 2483.54 59.26 74.00 -14.74 46.71 32.45 6.73 32.63 6.00 300

2 2483.54 34.50 54.00 -19.50 21.95 32.45 6.73 32.63 6.00

Read Ant Cable Preamp Aux APos TPos

cm deg

42 PEAK

42 AVERAGE

3 **Band Edge** Mode 2400-2483.5 \_CH78\_2480MHz Pol. Vertical **Fundamental** 120 Level (dBuV/m) 120 Level (dBuV/m) 105.0 105.0 90.0 90.0 FCC PART 15C 75.0 75.0 60.0 60.0 45.0 45.0 Peak/ 30.0 30.0 AVG. 15.0 15.0 0<u>—</u> 2441 1000 2452.8 2476.4 2488.2 2500 1400. 2600. 3000 Frequency (MHz) Frequency (MHz)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF Limit

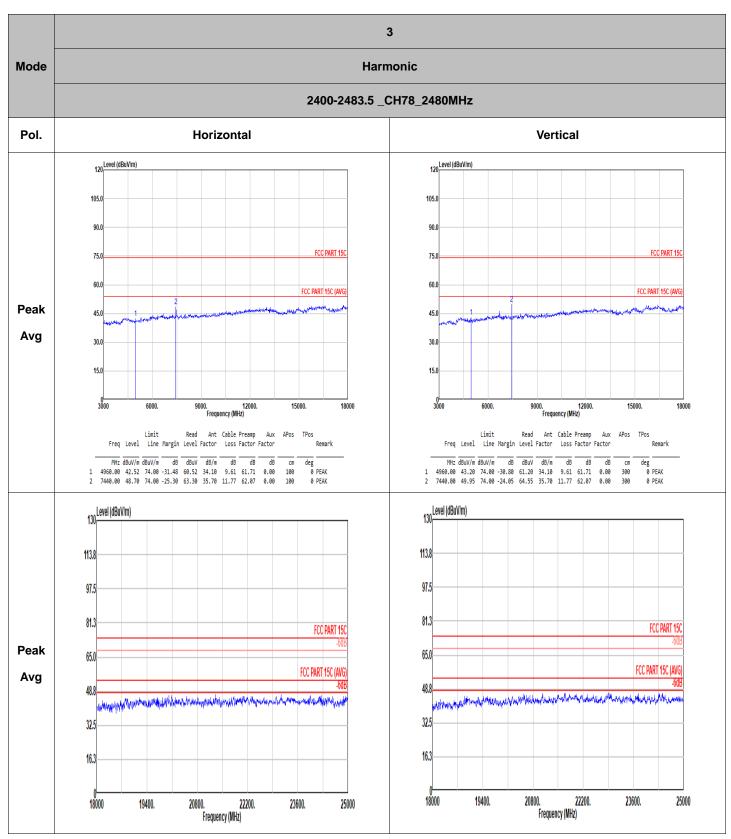
Freq Level Line Margin Level Factor Loss Factor Factor

2 2480.00 79.71 ----- 67.16 32.45 6.73 32.63 6.00 300

Read Ant Cable Preamp Aux APos TPos

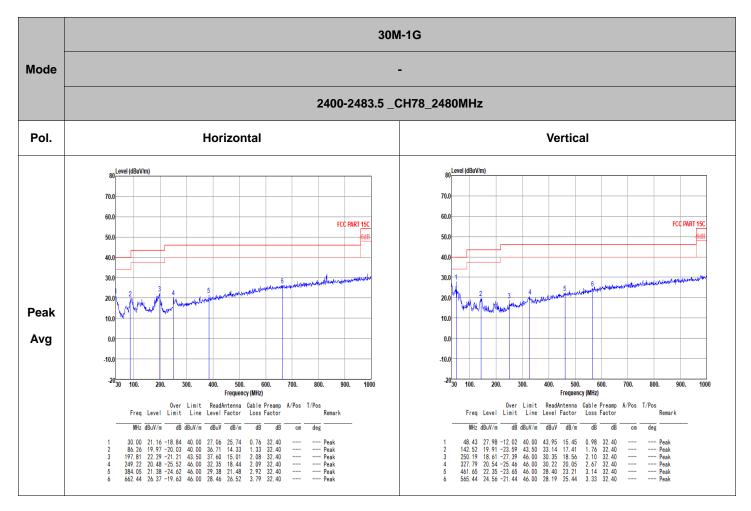
42 AVERAGE

C RF Test Report No. :FR2O2417A



Note: For 18GHz to 25GHz, only worse case is verified in this report.

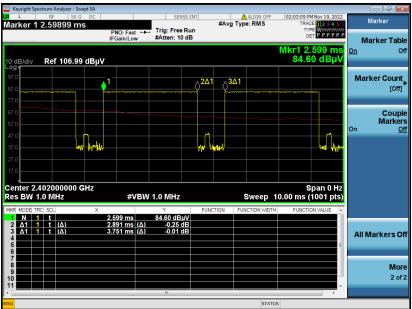
Report No. :FR2O2417A



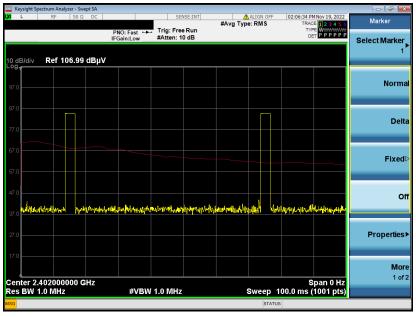
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: XMR2022SC200EWF

# Appendix D. Duty Cycle Plots

### 3DH5 on time (One Pulse) Plot on Channel 00



#### 3DH5 on time (Count Pulses) Plot on Channel 00



#### Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 2 \* 2.891 / 100 = 5.78 %
- 2. Worst case Duty cycle correction factor = 20\*log(Duty cycle) = -24.76 dB
- 3. 3DH5 has the highest duty cycle worst case and is reported.

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