



Report No.: FR0O2746

FCC RADIO TEST REPORT

FCC ID : NM82QAB100 Equipment : VIVE Tracker

Brand Name : VIVE

Model Name : 2QAB100

Applicant : HTC Corporation

No.88, Sec. 3, Zhongxing Rd., Xindian Dist.,

New Taipei City 231, Taiwan (R.O.C.)

Manufacturer : HTC Corporation

No.23, Xinghua Rd., Taoyuan District,

Taoyuan City, Taiwan 330

Standard : FCC Part 15 Subpart C §15.247

The product was received on Oct. 27, 2020 and testing was started from Nov. 06, 2020 and completed on Nov. 18, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

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Report No.	Version	Description	Issued Date
FR0O2746	01	Initial issue of report	Dec. 21, 2020

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)(3)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	Under limit 6.30 dB at 2483.600 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 14.07 dB at 1.469 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement Pass		-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang
Report Producer: Vivian Hsu

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1 General Description

1.1 Product Feature of Equipment Under Test

2.4GHz Proprietary Radio

Product Specification subjective to this standard					
Antenna Type / Gain 2.4GHz Proprietary Radio: PIFA Antenna with gain -2.5 dBi					

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Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory				
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978				
Test Site No.	Sporton	Site No.			
rest site NO.	TH05-HY	CO05-HY			

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855			
Test Site No.	Sporton Site No. 03CH13-HY			

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007

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1.4 Applicable Standards

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

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- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8 9 10 11	2418	29	2460
		2420	30	2462
2.4GHz Proprietary Radio		2422	31	2464
Trophiciary riadio		2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

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2.2 Test Mode

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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b. AC power line Conducted Emission was tested under maximum output power.

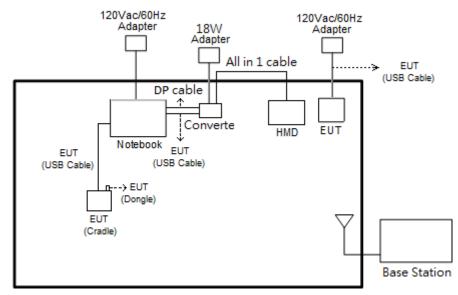
The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases
Test Item	Data Rate / Modulation
rest item	2.4GHz Proprietary Radio
Conducted	Mode 1: 2.4GHz Proprietary Radio Tx CH00_2402 MHz_1Mbps
Test Cases	Mode 2: 2.4GHz Proprietary Radio Tx CH19_2440 MHz_1Mbps
Test Cases	Mode 3: 2.4GHz Proprietary Radio Tx CH39_2480 MHz_1Mbps
Radiated	Mode 1: 2.4GHz Proprietary Radio Tx CH00_2402 MHz_1Mbps
Test Cases	Mode 2: 2.4GHz Proprietary Radio Tx CH19_2440 MHz_1Mbps
rest cases	Mode 3: 2.4GHz Proprietary Radio Tx CH39_2480 MHz_1Mbps
AC Conducted	Mode 1: EUT Link with Dongle + HMD + Adapter
Emission	Mode 2: EUT + USB Cable (Charging with Notebook)

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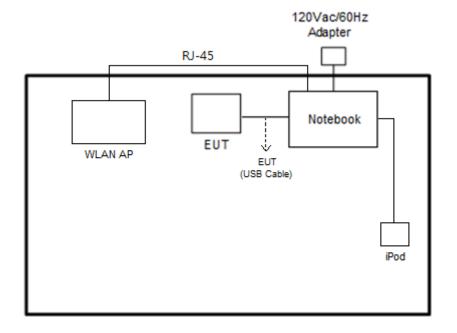
2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



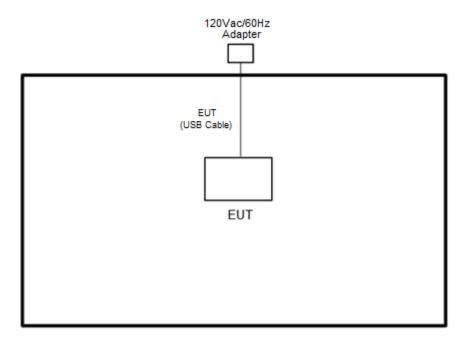
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<AC Conducted Emission with Charging Mode>



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<2.4GHz Proprietary Radio Tx Mode>



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2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord	
1.	Base Station	VIVE	2PR8100	8100 N/A N/A		N/A	
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m	
3.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A	
4.	Notebook	msi	MS-16Q4	FCC DoC N/A		AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m	
5.	Notebook	Dell	Latitude 3400	FCC DOC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m	
6.	HMD	VIVE	2Q29100	N/A	N/A	N/A	
7.	Adapter	HTC	TC U250	N/A	N/A	N/A	
8.	18W Adapter (for converter)	нтс	TC NE18W-US	N/A	N/A	N/A	
9.	30W Adapter (for Base Station)	нтс	TC NE30W-US	N/A	N/A	N/A	
10.	DP Cable	N/A	N/A	N/A	N/A	N/A	
11.	Converter	VIVE	2Q2R500	N/A	N/A	N/A	
12.	All in 1 cable	N/A	N/A	N/A	N/A	N/A	

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2.5 EUT Operation Test Setup

The RF test items, utility "Hercules V_3-2-8" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.2 + 10 = 14.2 (dB)

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3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

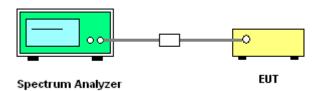
3.1.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

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- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set
 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup

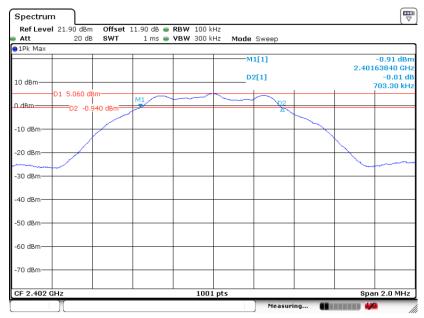


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3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

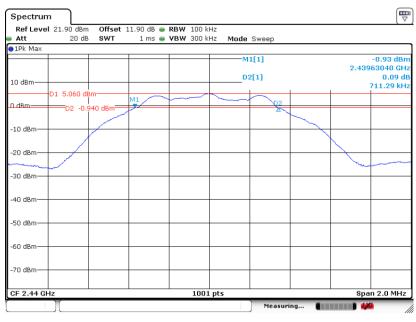
6 dB Bandwidth Plot on Channel 00



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Date: 17.NOV.2020 12:37:50

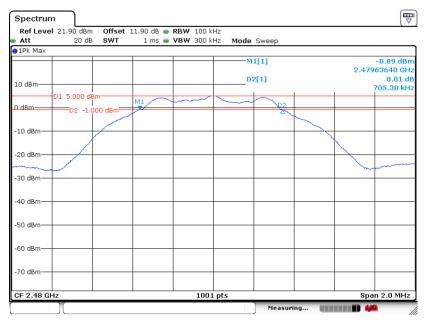
6 dB Bandwidth Plot on Channel 19



Date: 17.NOV.2020 12:54:44

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6 dB Bandwidth Plot on Channel 39



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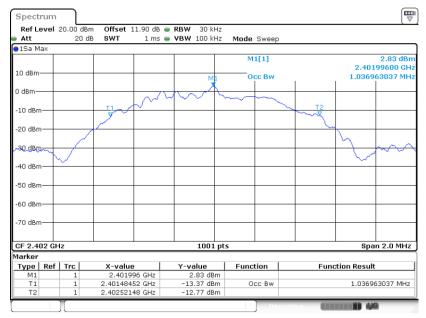
Date: 17.Nov.2020 13:02:21

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3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

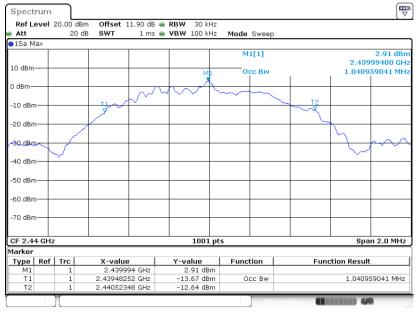
99% Bandwidth Plot on Channel 00



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Date: 17.NOV.2020 12:48:15

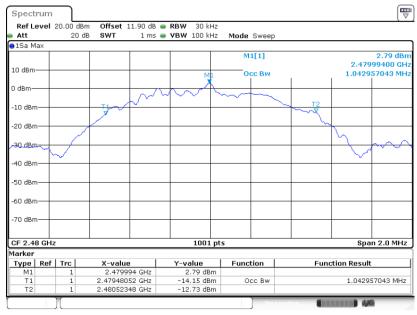
99% Occupied Bandwidth Plot on Channel 19



Date: 17.NOV.2020 12:59:25

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99% Occupied Bandwidth Plot on Channel 39



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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

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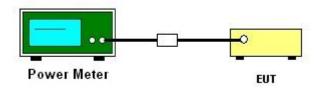
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

- 1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 3. The path loss was compensated to the results for each measurement.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

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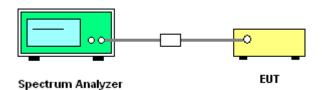
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



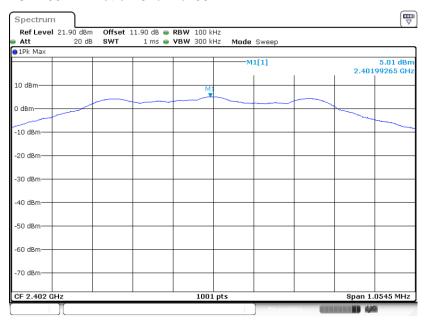
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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3.3.6 Test Result of Power Spectral Density Plots (100kHz)

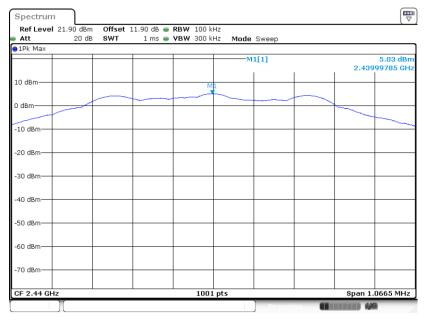
PSD 100kHz Plot on Channel 00



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Date: 17.NOV.2020 12:43:12

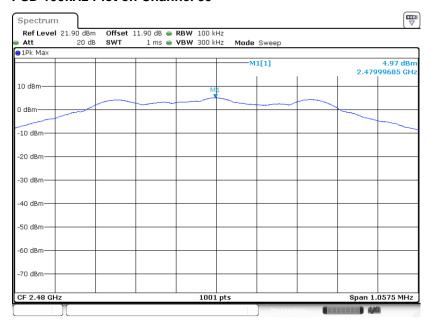
PSD 100kHz Plot on Channel 19



Date: 17.NOV.2020 12:57:32

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PSD 100kHz Plot on Channel 39



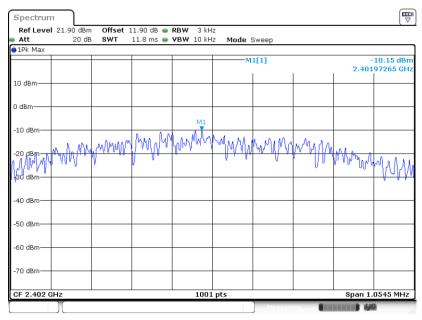
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3.3.7 Test Result of Power Spectral Density Plots (3kHz)

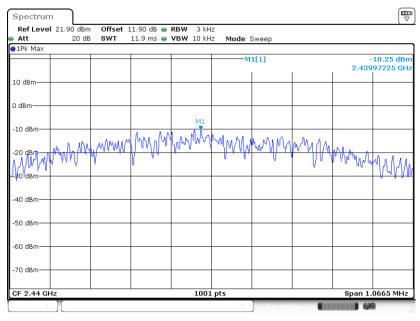
PSD 3kHz Plot on Channel 00



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Date: 17.NOV.2020 12:38:41

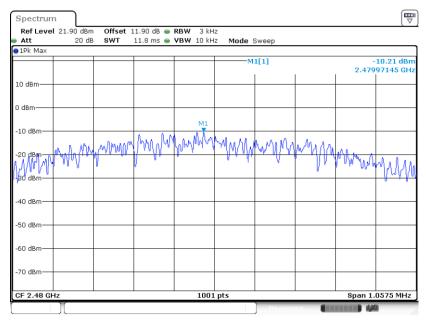
PSD 3kHz Plot on Channel 19



Date: 17.NOV.2020 12:56:51

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PSD 3kHz Plot on Channel 39



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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

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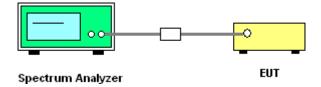
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedure

- 1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

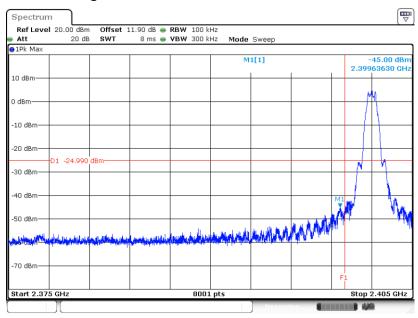
3.4.4 Test Setup



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3.4.5 Test Result of Conducted Band Edges Plots

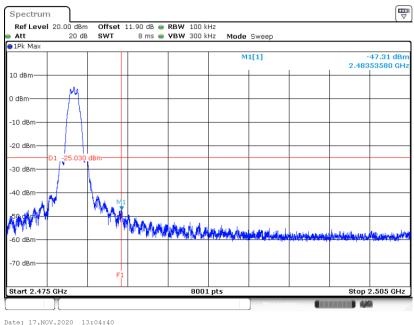
Low Band Edge Plot on Channel 00



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High Band Edge Plot on Channel 39



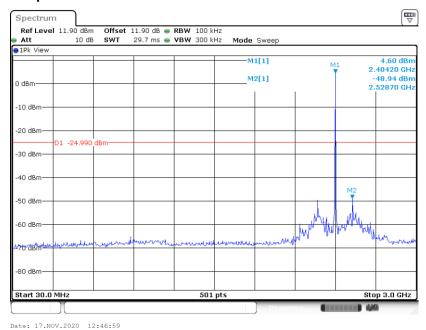
Date: 17.NOV.2020 13:04:40

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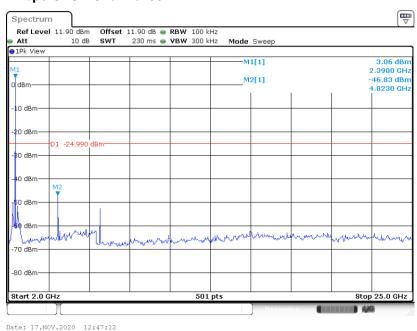
3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on 2.4GHz Proprietary Radio 1Mbps GFSK Channel 00

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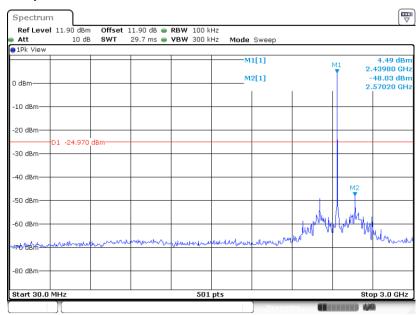
Conducted Spurious Emission Plot on 2.4GHz Proprietary Radio 1Mbps GFSK Channel 00



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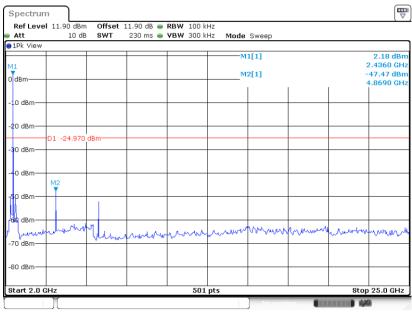
Conducted Spurious Emission Plot on 2.4GHz Proprietary Radio 1Mbps GFSK Channel 19

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Date: 17.NOV.2020 12:58:18

Conducted Spurious Emission Plot on 2.4GHz Proprietary Radio 1Mbps GFSK Channel 19

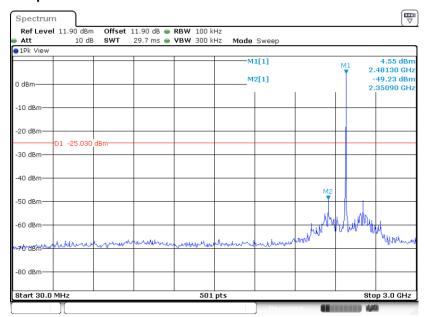


Date: 17.NOV.2020 12:58:34

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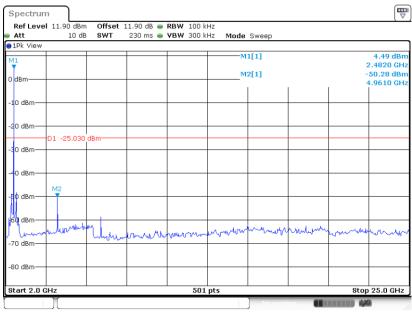
Conducted Spurious Emission Plot on 2.4GHz Proprietary Radio 1Mbps GFSK Channel 39

Report No.: FR0O2746



Date: 17.NOV.2020 13:05:19

Conducted Spurious Emission Plot on 2.4GHz Proprietary Radio 1Mbps GFSK Channel 39



Date: 17.NOV.2020 13:05:58

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 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. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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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		

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

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3.5.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
- 2. 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.

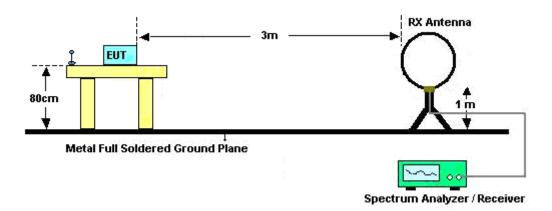
Report No.: FR0O2746

- 3. 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.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 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.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average 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.
- 8. 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; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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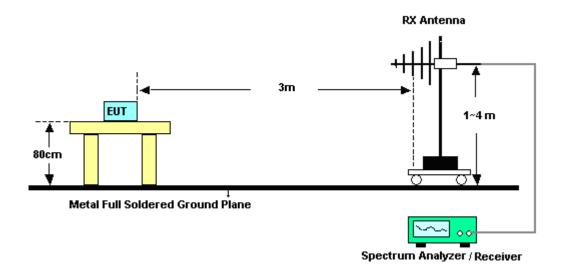
3.5.4 Test Setup

For radiated emissions below 30MHz



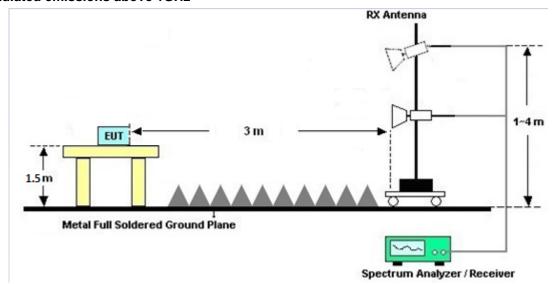
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For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



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3.5.5 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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

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3.6 AC Conducted Emission Measurement

3.6.1 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.

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Eroquonov of omission (MHz)	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			

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

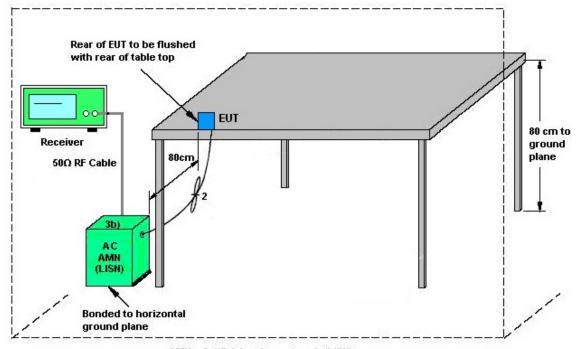
See list of measuring equipment of this test report.

3.6.3 Test Procedures

- 1. 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.
- 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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3.6.4 Test Setup



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AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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3.7 Antenna Requirements

3.7.1 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.

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3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Nov. 18, 2020	Jan. 08, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 20, 2020	Nov. 18, 2020	May 19, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Nov. 18, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 10, 2019	Nov. 18, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2020	Nov. 18, 2020	Oct. 27, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Nov. 18, 2020	May 18, 2021	Radiation (03CH13-HY)
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Nov. 18, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Nov. 18, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 02, 2020	Nov. 18, 2020	Oct. 01, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	Nov. 18, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	Nov. 18, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30M-18G	Feb. 12, 2020	Nov. 18, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 12, 2020	Nov. 18, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 12, 2020	Nov. 18, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Nov. 18, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz~44GHz	Feb. 10, 2020	Nov. 18, 2020	Feb. 09, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 18, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Nov. 18, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 18, 2020	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Nov. 18, 2020	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY532900 45	20Hz ~ 8.4GHz	Jan. 18. 2020	Nov. 18, 2020	Jan. 17, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 13, 2020	Nov. 18, 2020	Jul. 12, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN12	1.53GHz Low Pass Filter	Sep. 15, 2020	Nov. 18, 2020	Sep. 14, 2021	Radiation (03CH13-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 06, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Nov. 06, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Nov. 06, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Nov. 06, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	TESEQ	NNB 52	36122	9kHz~30MHz	Feb. 04, 2020	Nov. 06, 2020	Feb. 03, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 06, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Nov. 06, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Nov. 06, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 06, 2020~ Nov. 17, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Nov. 06, 2020~ Nov. 17, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Nov. 06, 2020~ Nov. 17, 2020	Jul. 21, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Nov. 06, 2020~ Nov. 17, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 06, 2020~ Nov. 17, 2020	Mar. 16, 2021	Conducted (TH05-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.2
of 95% (U = 2Uc(y))	2.3

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

1		
	Measuring Uncertainty for a Level of Confidence	40
	of 95% (U = 2Uc(y))	4.0

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

Measuring Uncertainty for a Level of Confidence	EA
of 95% (U = 2Uc(y))	5.1

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

Measuring Uncertainty for a Level of Confidence	4 0
of 95% (U = 2Uc(y))	4.0

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Report Template No.: BU5-FR15CBT4.0 Version 2.4 Report Version : 01

Report Number : FR0O2746

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kathy Chen/Shiming Liu	Temperature:	23.6	°C
Test Date:	2020/11/6~2020/11/17	Relative Humidity:	53.6	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
2.4GHz	1Mbps	1	0	2402	1.037	0.703	0.50	Pass
2.4GHz	1Mbps	1	19	2440	1.041	0.711	0.50	Pass
2.4GHz	1Mbps	1	39	2480	1.043	0.705	0.50	Pass

TEST RESULTS DATA Average Power Table

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
2.4GHz	1Mbps	1	0	2402	4.90	30.00	-2.50	2.40	36.00	Pass
2.4GHz	1Mbps	1	19	2440	4.80	30.00	-2.50	2.30	36.00	Pass
2.4GHz	1Mbps	1	39	2480	4.80	30.00	-2.50	2.30	36.00	Pass

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
2.4GHz	1Mbps	1	0	2402	5.01	-10.15	-2.50	8.00	Pass
2.4GHz	1Mbps	1	19	2440	5.03	-10.25	-2.50	8.00	Pass
2.4GHz	1Mbps	1	39	2480	4.97	-10.21	-2.50	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tam Loo	Temperature :	23~26 ℃
	Tom Lee	Relative Humidity :	40~50%

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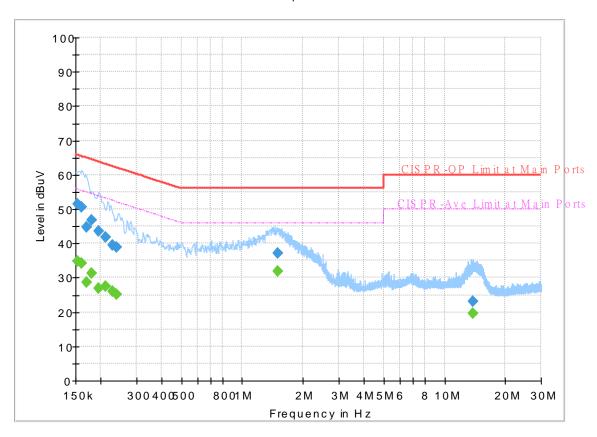
EUT Information

Report NO: 002746 Test Mode: Mode 2

Test Voltage : Power From System

Phase: Line

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153420	(uzur)	34.94	55.81	20.87	L1	OFF	19.4
0.153420	51.36		65.81	14.45	L1	OFF	19.4
0.161250		34.22	55.40	21.18	L1	OFF	19.4
0.161250	50.55		65.40	14.85	L1	OFF	19.4
0.169890		28.57	54.97	26.40	L1	OFF	19.4
0.169890	44.60		64.97	20.37	L1	OFF	19.4
0.179690		31.37	54.50	23.13	L1	OFF	19.4
0.179690	46.85		64.50	17.65	L1	OFF	19.4
0.194100		27.02	53.86	26.84	L1	OFF	19.4
0.194100	43.55		63.86	20.31	L1	OFF	19.4
0.210750		27.52	53.18	25.66	L1	OFF	19.4
0.210750	41.85		63.18	21.33	L1	OFF	19.4
0.228480		25.89	52.51	26.62	L1	OFF	19.4
0.228480	39.59		62.51	22.92	L1	OFF	19.4
0.240000		25.15	52.10	26.95	L1	OFF	19.4
0.240000	38.97	-	62.10	23.13	L1	OFF	19.4
1.490100		31.81	46.00	14.19	L1	OFF	19.5
1.490100	37.07		56.00	18.93	L1	OFF	19.5
13.880850		19.47	50.00	30.53	L1	OFF	19.7
13.880850	23.22		60.00	36.78	L1	OFF	19.7

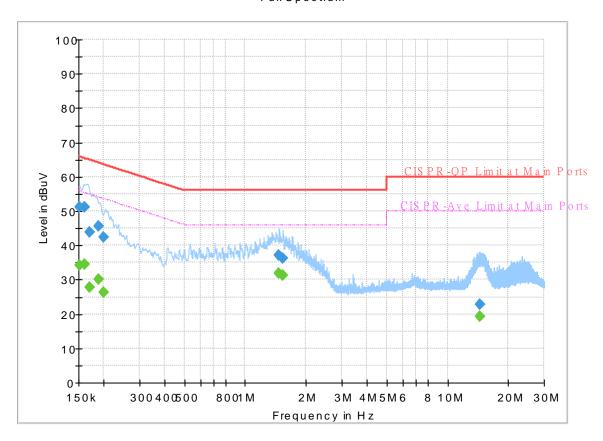
EUT Information

Report NO: 002746 Test Mode: Mode 2

Test Voltage : Power From System

Phase: Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151823		34.20	55.90	21.70	N	OFF	19.5
0.151823	51.19		65.90	14.71	N	OFF	19.5
0.161250		34.43	55.40	20.97	N	OFF	19.5
0.161250	51.12		65.40	14.28	N	OFF	19.5
0.170250		27.84	54.95	27.11	N	OFF	19.5
0.170250	43.75		64.95	21.20	N	OFF	19.5
0.188880		30.10	54.09	23.99	N	OFF	19.5
0.188880	45.67		64.09	18.42	N	OFF	19.5
0.199500		26.18	53.63	27.45	N	OFF	19.5
0.199500	42.27		63.63	21.36	N	OFF	19.5
1.468500		31.93	46.00	14.07	N	OFF	19.5
1.468500	37.24		56.00	18.76	N	OFF	19.5
1.530870		31.14	46.00	14.86	N	OFF	19.6
1.530870	36.32		56.00	19.68	N	OFF	19.6
14.489250		19.35	50.00	30.65	N	OFF	19.8
14.489250	22.76		60.00	37.24	N	OFF	19.8

Appendix C. Radiated Spurious Emission

Test Engineer :	Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

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2.4GHz 2400~2483.5MHz

2.4GHz proprietary (Band Edge @ 3m)

2.4GHz	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2312.73	54.93	-19.07	74	41.1	27.77	13.92	27.86	105	283	Р	Н
		2351.58	45.08	-8.92	54	31.28	27.7	13.95	27.85	105	283	Α	Н
	*	2402	96.07	-	-	82.31	27.6	14	27.84	105	283	Р	Н
	*	2402	95.4	-	-	81.64	27.6	14	27.84	105	283	Α	Н
2.4GHz													Н
CH 00													Н
2402MHz		2389.695	54.47	-19.53	74	40.7	27.62	13.99	27.84	172	17	Р	V
2402WII 12		2314.41	45.31	-8.69	54	31.48	27.77	13.92	27.86	172	17	Α	V
	*	2402	99.42	-	-	85.66	27.6	14	27.84	172	17	Р	V
	*	2402	98.88	1	-	85.12	27.6	14	27.84	172	17	Α	V
													V
													V
		2380.84	54.58	-19.42	74	40.8	27.64	13.98	27.84	107	285	Р	Н
		2381.26	45.43	-8.57	54	31.65	27.64	13.98	27.84	107	285	Α	Н
	*	2440	95.59	1	-	81.86	27.52	14.04	27.83	107	285	Р	Н
	*	2440	95.01	1	-	81.28	27.52	14.04	27.83	107	285	Α	Н
0.4011-		2492.51	55.03	-18.97	74	41.27	27.5	14.08	27.82	107	285	Р	Н
2.4GHz CH 19		2486.84	45.03	-8.97	54	31.27	27.5	14.08	27.82	107	285	Α	Н
2440MHz		2376.5	55.43	-18.57	74	41.64	27.65	13.98	27.84	176	19	Р	V
277VIVII IZ		2311.96	46.09	-7.91	54	32.25	27.78	13.92	27.86	176	19	Α	V
	*	2440	100.77	-	-	87.04	27.52	14.04	27.83	176	19	Р	V
	*	2440	100.27	1	-	86.54	27.52	14.04	27.83	176	19	Α	V
		2485.23	54.26	-19.74	74	40.5	27.5	14.08	27.82	176	19	Р	V
		2487.12	45.4	-8.6	54	31.64	27.5	14.08	27.82	176	19	Α	V

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	*	2480	96.41	-	-	82.66	27.5	14.07	27.82	106	281	Р	Н
	*	2480	95.92	-	-	82.17	27.5	14.07	27.82	106	281	Α	Н
		2483.64	59.15	-14.85	74	45.39	27.5	14.08	27.82	106	281	Р	Н
		2483.56	45.63	-8.37	54	31.87	27.5	14.08	27.82	106	281	Α	Н
0.4011													Н
2.4GHz													Н
CH 39 2480MHz	*	2480	100.73	-	-	86.98	27.5	14.07	27.82	193	20	Р	V
2400WII 12	*	2480	100.13	-	-	86.38	27.5	14.07	27.82	193	20	Α	V
		2483.64	62.55	-11.45	74	48.79	27.5	14.08	27.82	193	20	Р	V
		2483.6	47.7	-6.3	54	33.94	27.5	14.08	27.82	193	20	Α	V
													V
													V
Remark	1. N	o other spurious	s found.										
	2. Al	ll results are PA	SS against	Peak and	Average lir	mit line.							

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2.4GHz 2400~2483.5MHz

Report No.: FR0O2746

2.4GHz proprietary (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4804	38.11	-35.89	74	57.51	31.11	6.98	57.49	100	0	Р	Н
													Н
0.4011-													Н
2.4GHz													Н
CH 00		4804	39.05	-34.95	74	58.45	31.11	6.98	57.49	100	0	Р	V
2402MHz													V
													V
													V
		4880	39.42	-34.58	74	58.56	31.2	6.99	57.33	100	0	Р	Н
		7320	47.65	-26.35	74	59.67	36.76	8.32	57.1	100	0	Р	Н
													Н
2.4GHz													Н
CH 19 2440MHz		4880	39.62	-34.38	74	58.76	31.2	6.99	57.33	100	0	Р	V
244UIVITZ		7320	48.73	-25.27	74	60.75	36.76	8.32	57.1	100	0	Р	V
													V
													V
		4960	40.19	-33.81	74	58.93	31.42	7	57.16	100	0	Р	Н
		7440	46.42	-27.58	74	58.55	36.82	8.33	57.28	100	0	Р	Н
													Н
2.4GHz													Н
CH 39		4960	41.66	-32.34	74	60.4	31.42	7	57.16	100	0	Р	V
2480MHz		7440	48.54	-25.46	74	60.67	36.82	8.33	57.28	100	0	Р	V
													V
													V

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Emission below 1GHz

Report No.: FR0O2746

2.4GHz proprietary (LF)

2.4GHz	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		32.91	21.9	-18.1	40	30.39	23.25	0.5	32.24	-	-	Р	Н
		61.04	20.44	-19.56	40	40.13	11.93	0.65	32.27	-	-	Р	Н
		101.78	22.71	-20.79	43.5	37.69	16.3	0.83	32.11	-	-	Р	Н
		719.67	34.97	-11.03	46	37.3	27.03	2.33	31.69	-	-	Р	Н
		815.7	39.56	-6.44	46	41.21	27.79	2.46	31.9	100	0	Р	Н
		944.71	33.24	-12.76	46	31.39	30.23	2.69	31.07	-	-	Р	Н
													Н
													Н
													Н
													Н
0.4011-													Н
2.4GHz proprietary													Н
LF		32.91	33.44	-6.56	40	41.93	23.25	0.5	32.24	100	0	Р	٧
-		46.49	29.24	-10.76	40	44.75	16.21	0.58	32.3	-	-	Р	V
		66.86	27.6	-12.4	40	46.93	12.21	0.71	32.25	-	-	Р	V
		91.11	25.52	-17.98	43.5	41.84	15.04	0.79	32.15	-	-	Р	V
		815.7	38.72	-7.28	46	40.37	27.79	2.46	31.9	-	-	Р	V
		911.73	33.45	-12.55	46	33.4	28.85	2.68	31.48	-	-	Р	V
													V
													V
													V
													V
													V
													V
	1. No	o other spurious	s found										
Remark		results are PA		mit line									
	/\	TOURS ATO 1 A	-5 against ii										

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Note symbol

Report No.: FR0O2746

*	Fundamental Frequency which can be ignored. However, the level of any
	unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

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BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 00													
2402MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

- 1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
- 2. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB μ V) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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Appendix D. Radiated Spurious Emission Plots

Test Engineer :		Temperature :	20~25°C
rest Engineer.	Wilson Wu	Relative Humidity :	50~60%

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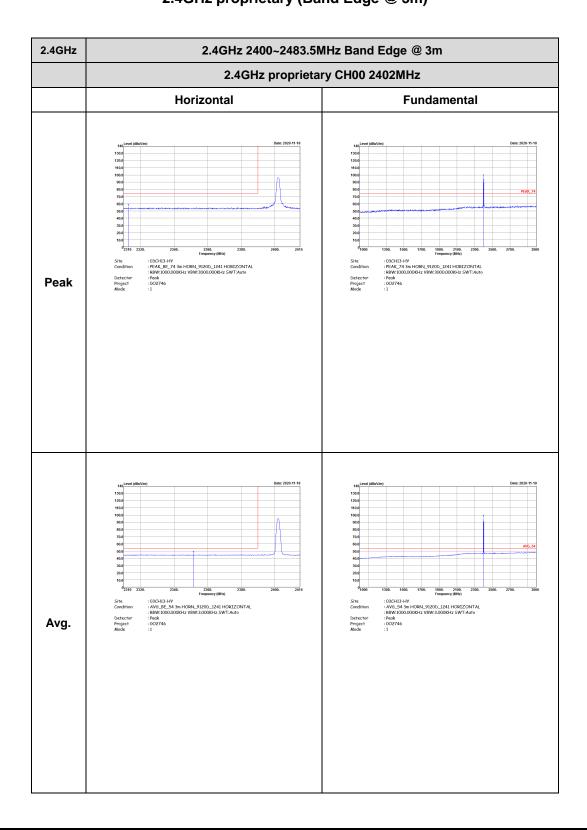
Note symbol

-L	Low channel location
-R	High channel location

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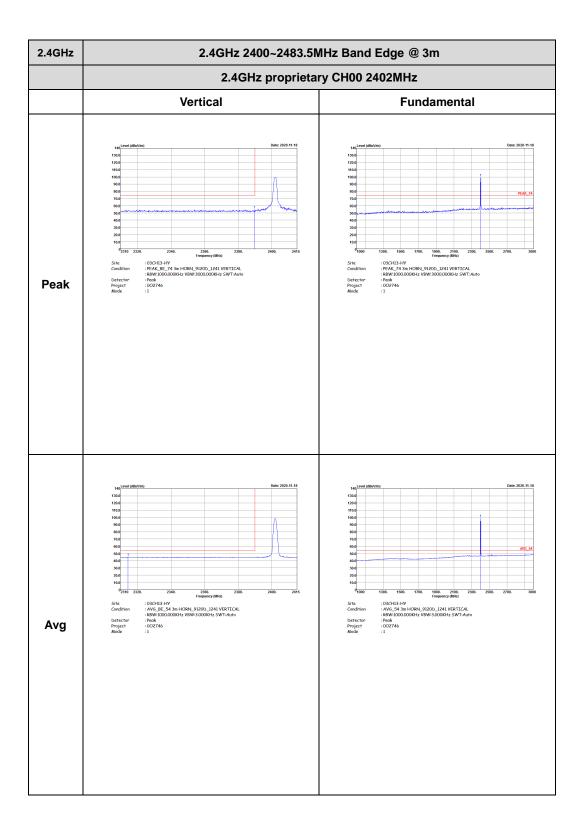
2.4GHz 2400~2483.5MHz 2.4GHz proprietary (Band Edge @ 3m)

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2.4GHz 2.4GHz 2400~2483.5MHz Band Edge @ 3m 2.4GHz proprietary CH19 2440MHz - L Horizontal **Fundamental Peak** : 03CH13-HY : AVE, 54 3m HORN_9120D_1241 HORIZONTAL : RBW-1000.000KHz VBW-3.000KHz SWT:Auto : Peak : 002746 : 2 Avg.

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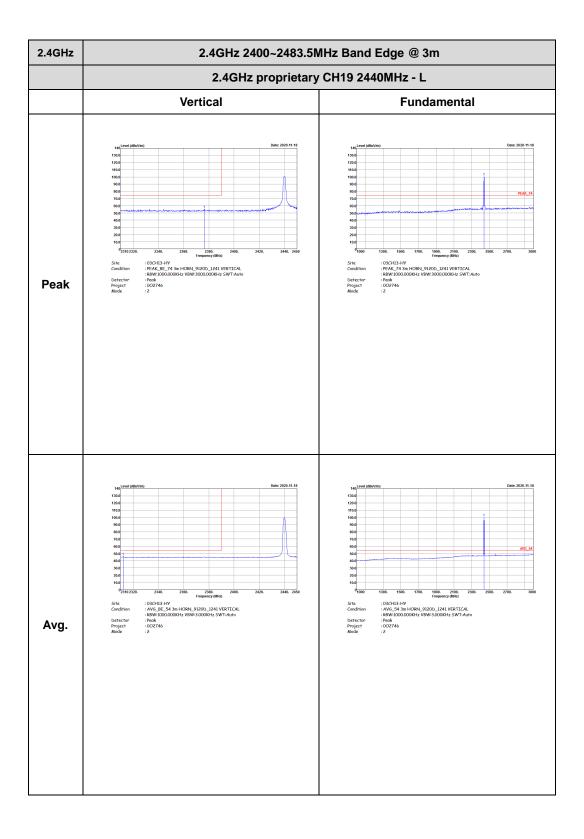
2.4GHz 2.4GHz 2400~2483.5MHz Band Edge @ 3m 2.4GHz proprietary CH19 2440MHz - R Horizontal **Fundamental** Peak Left blank : 03CHI3-HV : AVE_BE_54 am HORN_9120D_1241 HORIZONTAL : 88W:1000.000KHz V8W:3.000KHz SWT:Auto : Peak : 002746 : 2 Left blank Avg.

Report No.: FR0O2746

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C RADIO TEST REPORT Report No. : FR0O2746



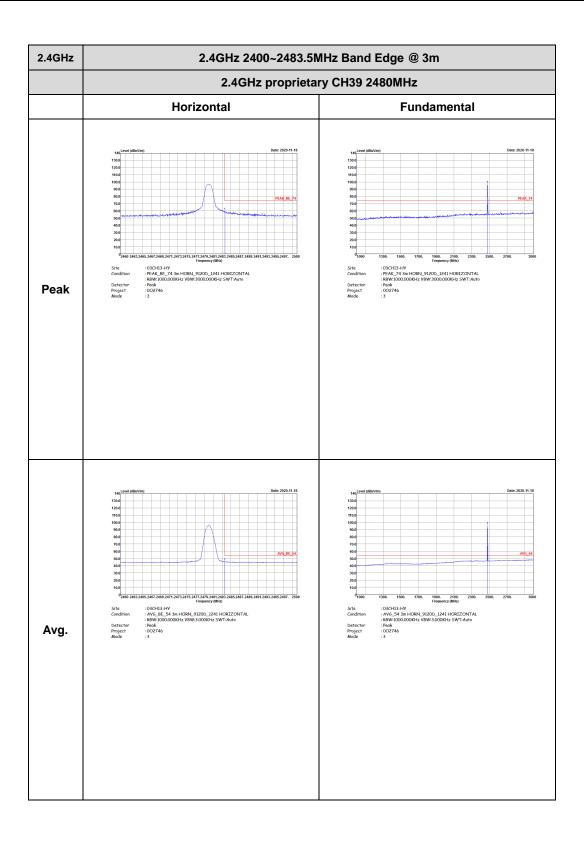
TEL: 886-3-327-3456 Page Number: D6 of D13



2.4GHz 2.4GHz 2400~2483.5MHz Band Edge @ 3m 2.4GHz proprietary CH19 2440MHz - R Vertical **Fundamental** Peak Left blank Frequency (Milt)
: 03CH13-HY
: AVG_BE_54 3m HORN_9120D_1241 VERTICAL
: RBW:1000.000KHz VBW:3.000KHz SWT:Auto
: Peak
: 002746
: 2 Left blank Avg.

Report No.: FR0O2746

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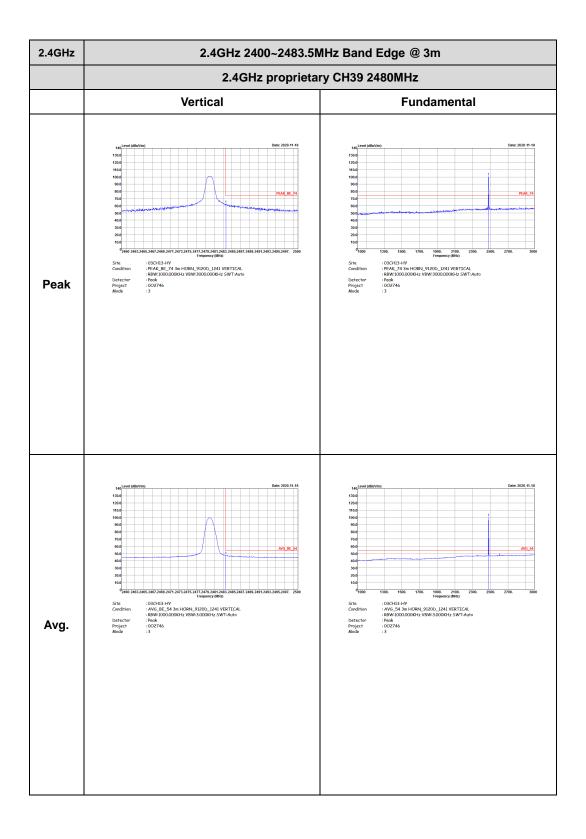


Report No.: FR0O2746

: D8 of D13 TEL: 886-3-327-3456 Page Number



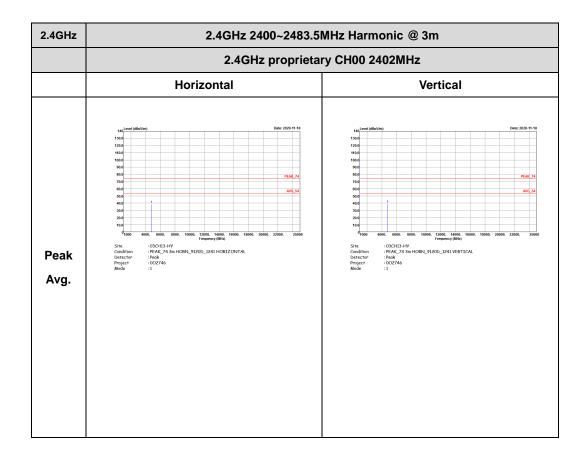
CC RADIO TEST REPORT Report No. : FR0O2746



TEL: 886-3-327-3456 Page Number: D9 of D13

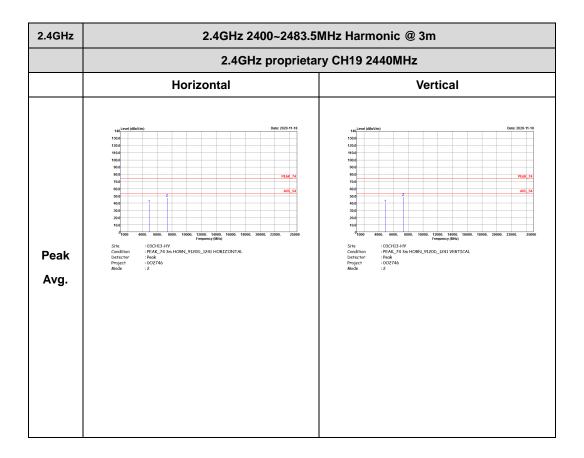
2.4GHz 2400~2483.5MHz 2.4GHz proprietary (Harmonic @ 3m)

Report No.: FR0O2746

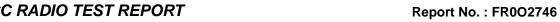


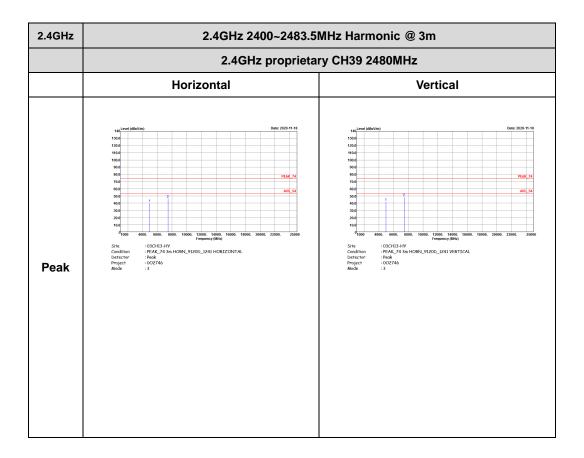
TEL: 886-3-327-3456 Page Number : D10 of D13





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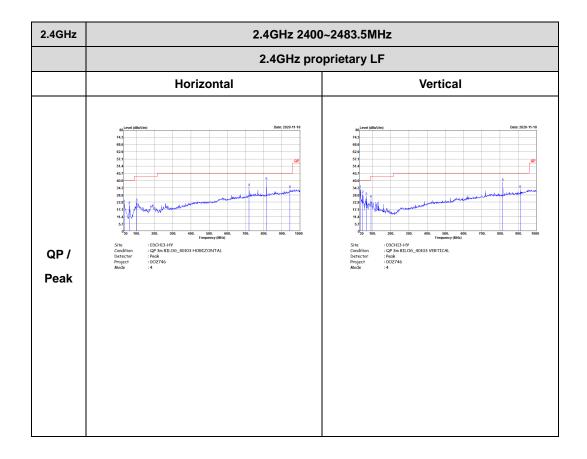




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Emission below 1GHz 2.4GHz proprietary (LF)

Report No.: FR0O2746

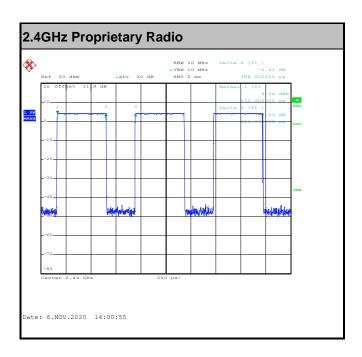


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Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
2.4GHz Proprietary Radio	62.18	388	2.58	3kHz	2.06

Report No.: FR0O2746



——THE END——

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