



FCC CO-LOCATION RADIO TEST REPORT

FCC ID : 2AFZZ211G
Equipment : Mobile Phone
Brand Name : POCO
Model Name : 22011211G
Applicant : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road, Haidian District, Beijing, China, 100085
Manufacturer : Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road, Haidian District, Beijing, China, 100085
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jan. 06, 2022 and testing was performed from Jan. 25, 2022 to Jan. 26, 2022. We, Sporton International Inc. Wensan 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issue Date
FR210628G	01	Initial issue of report	Feb. 16, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(b)	Unwanted Emissions	Pass	3.55 dB under the limit at 5350.320 MHz
3.2	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Danny Lee

Report Producer: Vivian Hsu

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, and GNSS.

Product Feature	
Sample 1	EUT with RAM (Micron)
Sample 2	EUT with RAM (Samsung)
Antenna Type	WWAN: PIFA Antenna WLAN 2.4GHz <Ant. 16>: PIFA Antenna <Ant. 18>: PIFA Antenna WLAN 5GHz <Ant. 17>: PIFA Antenna <Ant. 18>: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / Galileo / SBAS / QZSS / NavIC: PIFA Antenna NFC: Coil Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Bluetooth: <Ant. 16> : -1.70
		WLAN 2.4GHz: <Ant. 16> : -1.70 <Ant. 18> : -2.14
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Ant. 17> : -2.64 <Ant. 18> : -2.11

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH16-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

—

2 Test Configuration of Equipment Under Test

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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X Plane for Bluetooth - LE + WLAN 5GHz 802.11ax HE40; Z Plane for Bluetooth - LE + WLAN 2.4GHz 802.11g as worst plane.

2.1 Carrier Frequency and Channel

2400-2483.5 MHz Bluetooth - LE		2400-2483.5 MHz 802.11g		5250-5350 MHz 802.11ax HE40	
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
39	2480	11	2462	62	5310

2.2 Test Mode

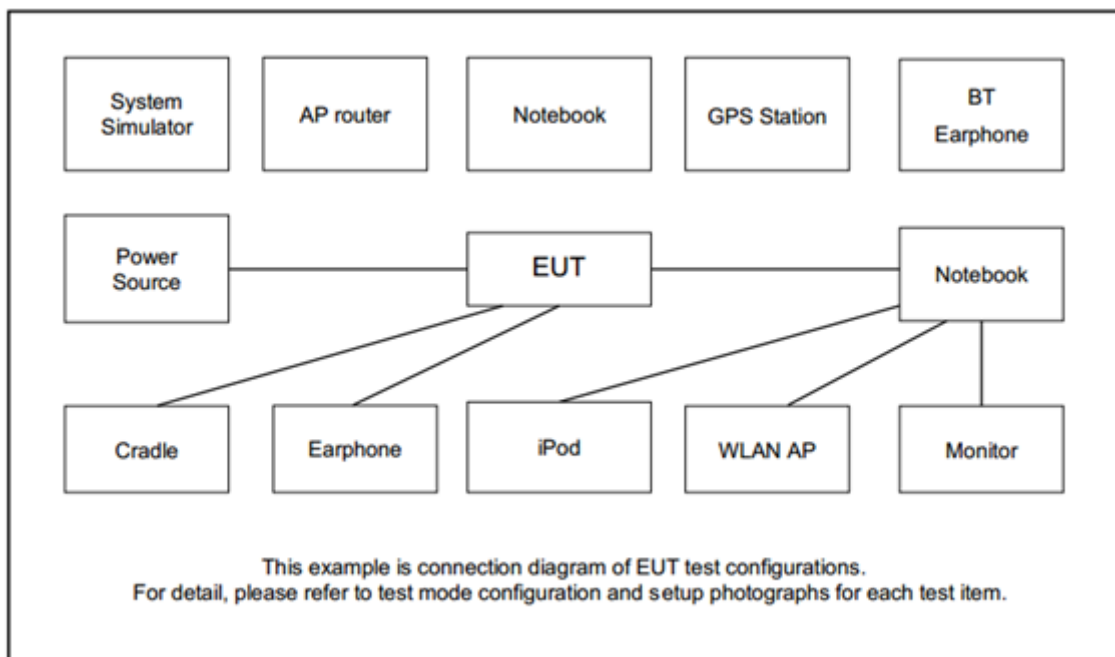
The final test modes consider the modulation and the worst data rates as shown in the table below.

<Co-Location>

Modulation	Data Rate
Bluetooth – LE 2Mbps for Ant. 16 + 5GHz 802.11ax HE40 for MIMO <Ant. 17+18>	GFSK + MCS0, N _{ss} =2
Bluetooth – LE 2Mbps for Ant. 16 + 2.4GHz 802.11g for Ant. 18	GFSK + 6 Mbps, N _{ss} =2

Remark: For Radiated Test Cases, the tests were performed with Adapter 2, USB Cable 1 and Sample 1.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Dell	Latitude 5480	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: 2021-12-21-200901) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.1.1 Limit of Unwanted Emissions

(1) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(2) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.1.2 Measuring Instruments

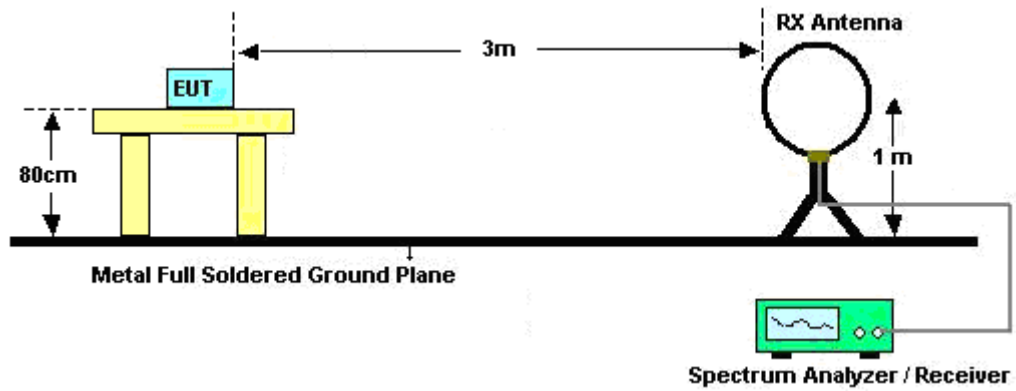
Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

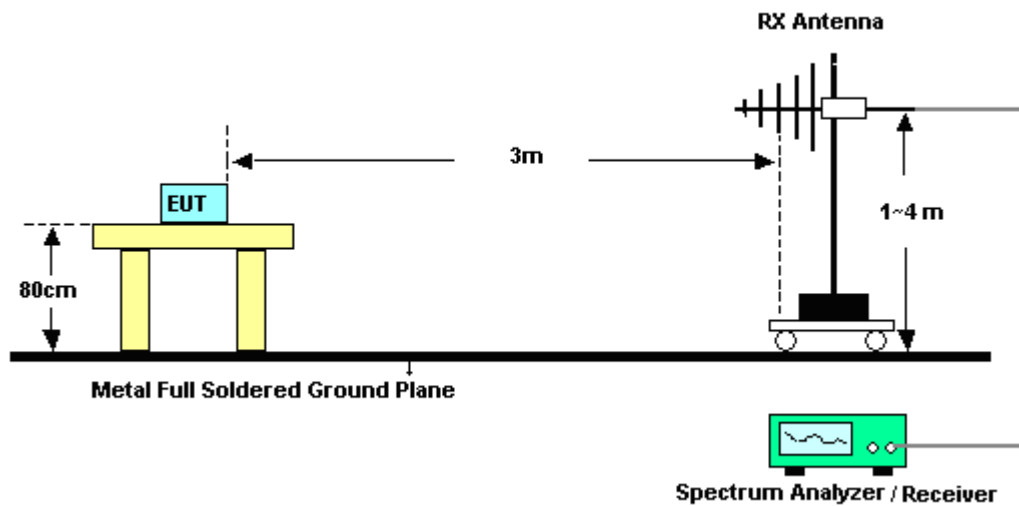
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 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.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.1.4 Test Setup

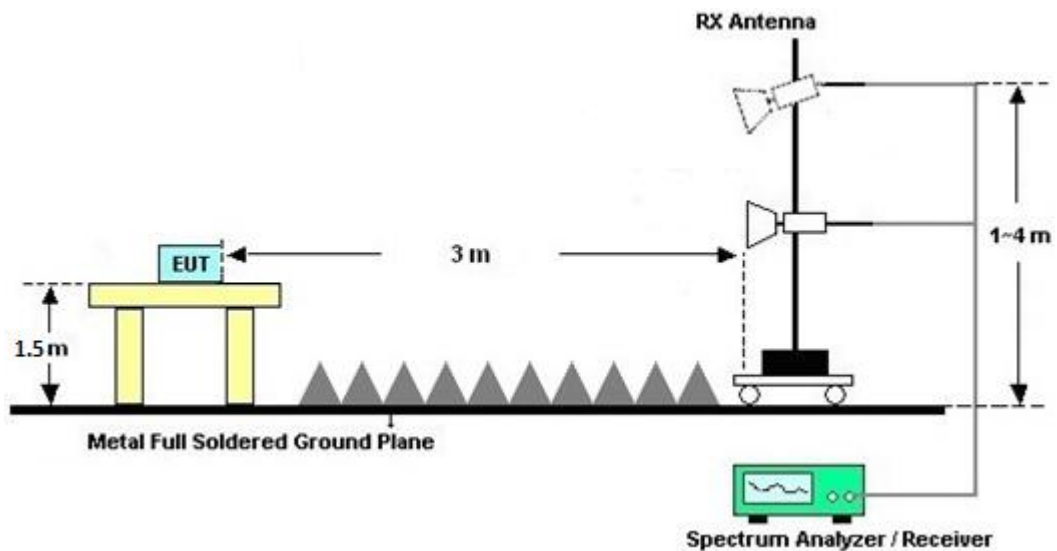
For radiated emissions below 30MHz



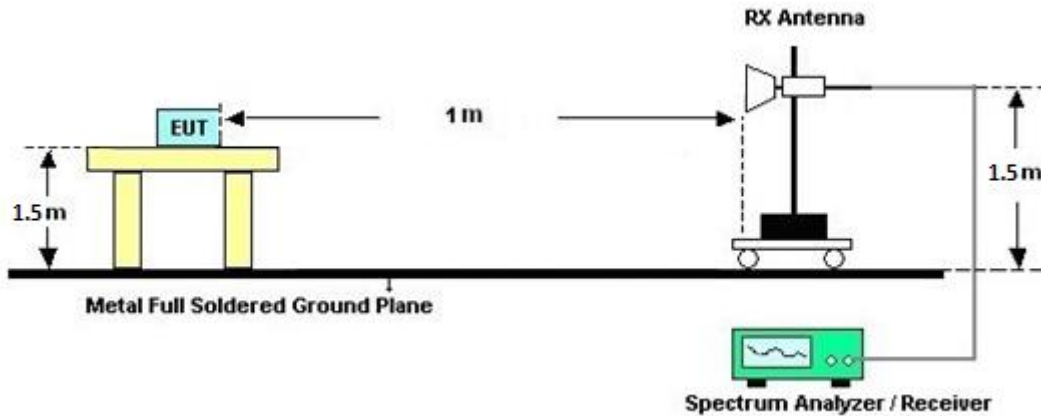
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement 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.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.1.7 Duty Cycle

Please refer to Appendix C.

3.1.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.



3.2 Antenna Requirements

3.2.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 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.



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	Sep. 07, 2021	Jan. 25, 2022~ Jan. 26, 2022	Sep. 06, 2022	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 09, 2021	Jan. 25, 2022~ Jan. 26, 2022	Oct. 08, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1G~18GHz	Aug. 04, 2021	Jan. 25, 2022~ Jan. 26, 2022	Aug. 03, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz ~40GHz	Dec. 16, 2021	Jan. 25, 2022~ Jan. 26, 2022	Dec. 15, 2022	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 05, 2021	Jan. 25, 2022~ Jan. 26, 2022	Jul. 04, 2022	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Jul. 09, 2021	Jan. 25, 2022~ Jan. 26, 2022	Jul. 08, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Jan. 25, 2022~ Jan. 26, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Jan. 25, 2022~ Jan. 26, 2022	Jun. 21, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY59053012	3Hz~26.5GHz	Nov. 18, 2021	Jan. 25, 2022~ Jan. 26, 2022	Nov. 17, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4P E	NA	Aug. 28, 2021	Jan. 25, 2022~ Jan. 26, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4P E	NA	Aug. 28, 2021	Jan. 25, 2022~ Jan. 26, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	NA	Aug. 28, 2021	Jan. 25, 2022~ Jan. 26, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jan. 25, 2022~ Jan. 26, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 25, 2022~ Jan. 26, 2022	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 25, 2022~ Jan. 26, 2022	N/A	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Jan. 25, 2022~ Jan. 26, 2022	Mar. 10, 2022	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN3	3GHz High Pass Filter	Jul. 01, 2021	Jan. 25, 2022~ Jan. 26, 2022	Jun. 30, 2022	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Jan. 25, 2022~ Jan. 26, 2022	Sep. 13, 2022	Radiation (03CH16-HY)
Notch Filter	ST1	STI15_9935_5 150-5850	NA	NA	Apr. 08, 2021	Jan. 25, 2022~ Jan. 26, 2022	Apr. 07, 2022	Radiation (03CH16-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Appendix A. Radiated Spurious Emission

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

2.4GHz 2400~2483.5MHz + Band 2 - 5250~5350MHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(Band Edge @ 3m)

BLE+WIFI Simultaneously	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 39 2480MHz	*	2480	95.09	-	-	78.98	27.78	18.38	30.05	103	302	P	H
	*	2480	93.79	-	-	77.68	27.78	18.38	30.05	103	302	A	H
		2489.48	56.52	-17.48	74	40.32	27.84	18.4	30.04	103	302	P	H
		2485.56	49.22	-4.78	54	33.06	27.81	18.39	30.04	103	302	A	H
													H
													H
	*	2480	91.91	-	-	75.8	27.78	18.38	30.05	400	51	P	V
	*	2480	88.82	-	-	72.71	27.78	18.38	30.05	400	51	A	V
		2487.48	56.7	-17.3	74	40.52	27.82	18.4	30.04	400	51	P	V
		2490.44	49.17	-4.83	54	32.97	27.84	18.4	30.04	400	51	A	V
													V
													V



802.11ax HE40 CH 62 5310MHz		5133.96	54.23	-19.77	74	38.67	33	12.01	29.45	100	116	P	H
		5127.5	44.57	-9.43	54	28.99	33.03	12	29.45	100	116	A	H
	*	5310	109.9	-	-	93.97	32.96	12.48	29.51	100	116	P	H
	*	5310	99.73	-	-	83.8	32.96	12.48	29.51	100	116	A	H
		5350.56	58.61	-15.39	74	42.71	32.8	12.62	29.52	100	116	P	H
		5350.32	50.45	-3.55	54	34.55	32.8	12.62	29.52	100	116	A	H
		5088.4	53.12	-20.88	74	37.51	33.11	11.94	29.44	302	79	P	V
		5102.34	44.61	-9.39	54	28.9	33.19	11.96	29.44	302	79	A	V
	*	5310	106.74	-	-	90.81	32.96	12.48	29.51	302	79	P	V
	*	5310	97.44	-	-	81.51	32.96	12.48	29.51	302	79	A	V
		5355.12	56.4	-17.6	74	40.47	32.81	12.64	29.52	302	79	P	V
		5351.04	48.16	-5.84	54	32.26	32.8	12.62	29.52	302	79	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
BLE+WIFI				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Co-location		4960	56.66	-17.34	74	39.72	33.02	13.33	29.41	100	20	P	H
		4960	47.98	-6.02	54	31.04	33.02	13.33	29.41	100	20	A	H
		7440	45.91	-28.09	74	48.91	36.22	16.45	55.67	-	-	P	H
		10620	47.37	-26.63	74	44.88	39	18.95	55.46	-	-	P	H
		10880	47.29	-26.71	74	44.82	38.88	18.99	55.4	-	-	P	H
		10880	38.25	-15.75	54	35.78	38.88	18.99	55.4	-	-	A	H
		14491	48.8	-25.2	74	40.98	40.4	21.75	54.33	-	-	P	H
		14491	39.63	-14.37	54	31.81	40.4	21.75	54.33	-	-	A	H
		15930	45.61	-28.39	74	40.14	37.81	22.93	55.27	-	-	P	H
		17967	53.47	-20.53	74	41.85	42.74	25.46	56.58	-	-	P	H
		17967	44.23	-9.77	54	32.61	42.74	25.46	56.58	-	-	A	H
		4960	56.35	-17.65	74	39.41	33.02	12.28	29.41	100	199	P	V
		4960	47.51	-6.49	54	30.57	33.02	12.28	29.41	100	199	A	V
		7440	46.45	-27.55	74	49.45	36.22	16.45	55.67	-	-	P	V
		10620	47.79	-26.21	74	45.3	39	18.95	55.46	-	-	P	V
		10883	47.41	-26.59	74	44.95	38.87	18.99	55.4	-	-	P	V
		10883	37.97	-16.03	54	35.51	38.87	18.99	55.4	-	-	A	V
		14491	49.09	-24.91	74	41.27	40.4	21.75	54.33	-	-	P	V
		14491	39.51	-14.49	54	31.69	40.4	21.75	54.33	-	-	A	V
		15930	46	-28	74	40.53	37.81	22.93	55.27	-	-	P	V
		17978	53.64	-20.36	74	41.94	42.82	25.47	56.59	-	-	P	V
		17978	44.01	-9.99	54	32.31	42.82	25.47	56.59	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

**2.4GHz 2400~2483.5MHz****BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18****(Band Edge @ 3m)**

BLE+WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz	*	2480	96.45	-	-	80.34	27.78	18.38	30.05	103	313	P	H
	*	2480	95.07	-	-	78.96	27.78	18.38	30.05	103	313	A	H
		2484	58.22	-15.78	74	42.07	27.8	18.39	30.04	103	313	P	H
		2484.92	49.79	-4.21	54	33.63	27.81	18.39	30.04	103	313	A	H
													H
													H
	*	2480	91.7	-	-	75.59	27.78	18.38	30.05	400	46	P	V
	*	2480	88.96	-	-	72.85	27.78	18.38	30.05	400	46	A	V
		2483.52	58.67	-15.33	74	42.52	27.8	18.39	30.04	400	46	P	V
		2484.4	50.03	-3.97	54	33.87	27.81	18.39	30.04	400	46	A	V
													V
													V



802.11g CH 11 2462MHz	*	2462	105.35	-	-	89.38	27.67	18.35	30.05	122	41	P	H
	*	2462	97.72	-	-	81.75	27.67	18.35	30.05	122	41	A	H
		2484.44	58.81	-15.19	74	42.65	27.81	18.39	30.04	122	41	P	H
		2483.56	48.16	-5.84	54	32.01	27.8	18.39	30.04	122	41	A	H
	*	2462	107.35	-	-	91.38	27.67	18.35	30.05	100	98	P	V
	*	2462	99.95	-	-	83.98	27.67	18.35	30.05	100	98	A	V
		2484.32	59.38	-14.62	74	43.22	27.81	18.39	30.04	100	98	P	V
		2483.52	49.44	-4.56	54	33.29	27.8	18.39	30.04	100	98	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18

(Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
BLE+WIFI				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Co-location		4924	39.97	-34.03	74	50.22	32.84	12.3	55.39	-	-	P	H
		4960	41.34	-32.66	74	51.48	33.02	12.28	55.44	-	-	P	H
		7386	45.75	-28.25	74	48.75	36.41	16.25	55.66	-	-	P	H
		7440	45.75	-28.25	74	49	36.22	16.2	55.67	-	-	P	H
		10875	48.29	-25.71	74	45.35	38.9	19.44	55.4	-	-	P	H
		10875	38.64	-15.36	54	35.7	38.9	19.44	55.4	-	-	A	H
		14491	49.07	-24.93	74	40.99	40.4	22.01	54.33	-	-	P	H
		14491	39.67	-14.33	54	31.59	40.4	22.01	54.33	-	-	A	H
		17985	52.8	-21.2	74	41.47	42.88	25.04	56.59	-	-	P	H
		17985	43.86	-10.14	54	32.53	42.88	25.04	56.59	-	-	A	H
		4924	40.73	-33.27	74	50.98	32.84	12.3	55.39	-	-	P	V
		4960	40.5	-33.5	74	50.64	33.02	12.28	55.44	-	-	P	V
		7386	45.98	-28.02	74	48.98	36.41	16.25	55.66	-	-	P	V
		7440	46.19	-27.81	74	49.44	36.22	16.2	55.67	-	-	P	V
		10880	48.09	-25.91	74	45.17	38.88	19.44	55.4	-	-	P	V
		10880	38.29	-15.71	54	35.37	38.88	19.44	55.4	-	-	A	V
		14491	48.28	-25.72	74	40.2	40.4	22.01	54.33	-	-	P	V
		14491	39.73	-14.27	54	31.65	40.4	22.01	54.33	-	-	A	V
		17970	52.92	-21.08	74	41.71	42.76	25.03	56.58	-	-	P	V
		17970	43.63	-10.37	54	32.42	42.76	25.03	56.58	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

Emission above 18GHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(SHF @ 1m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
BLE+WIFI				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Co-location		34918	41.56	-26.64	68.2	37.91	42.27	17.33	55.95	-	-	P	H
		37932	45.51	-22.69	68.2	39.31	43.05	18.93	55.78	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		34852	41.17	-27.03	68.2	37.67	42.09	17.32	55.91	-	-	P	V
		38108	47.07	-21.13	68.2	40.37	43.29	19	55.59	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18

(SHF @ 1m)

[illegible]



Emission below 1GHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(LF@3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
BLE+WIFI Simultaneously		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
Co-location		82.38	14.95	-25.05	40	32.06	13.57	1.62	32.3	-	-	P	H
		142.52	21.1	-22.4	43.5	33.53	17.57	2.27	32.27	-	-	P	H
		164.83	23.17	-20.33	43.5	36.89	16.14	2.38	32.24	-	-	P	H
		188.11	28.01	-15.49	43.5	42.99	14.82	2.44	32.24	-	-	P	H
		570.29	27.26	-18.74	46	29.64	25.9	4.2	32.48	-	-	P	H
		773.02	30.69	-15.31	46	30.1	28.09	4.8	32.3	-	-	P	H
													H
													H
													H
													H
													H
		62.98	21.18	-18.82	40	40.03	12.02	1.41	32.28	-	-	P	V
		138.64	18.8	-24.7	43.5	31.28	17.56	2.23	32.27	-	-	P	V
		185.2	30.32	-13.18	43.5	45.25	14.88	2.42	32.23	-	-	P	V
		353.98	21.26	-24.74	46	29.57	20.65	3.28	32.24	-	-	P	V
		637.22	28.54	-17.46	46	30.34	26.32	4.4	32.52	-	-	P	V
		768.17	31.46	-14.54	46	30.89	28.09	4.79	32.31	-	-	P	V
													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18

(LF@3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
BLE+WIFI Simultaneously		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
Co-location		74.62	16.69	-23.31	40	34.62	12.84	1.54	32.31	-	-	P	H
		137.67	20.91	-22.59	43.5	33.43	17.53	2.22	32.27	-	-	P	H
		164.83	23.62	-19.88	43.5	37.34	16.14	2.38	32.24	-	-	P	H
		187.14	28.29	-15.21	43.5	43.26	14.83	2.43	32.23	-	-	P	H
		460.68	26.2	-19.8	46	31.43	23.44	3.74	32.41	-	-	P	H
		729.37	32.54	-13.46	46	32.62	27.63	4.65	32.36	-	-	P	H
													H
													H
													H
													H
													H
													H
		62.98	19.99	-20.01	40	38.84	12.02	1.41	32.28	-	-	P	V
		178.41	29.11	-14.39	43.5	43.81	15.15	2.37	32.22	-	-	P	V
		259.89	20.25	-25.75	46	29.56	20.01	2.93	32.25	-	-	P	V
		548.95	26.46	-19.54	46	29.65	25.1	4.11	32.4	-	-	P	V
		679.9	28.89	-17.11	46	30.41	26.4	4.51	32.43	-	-	P	V
		862.26	32.71	-13.29	46	30.42	29.01	5.13	31.85	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Note symbol

*	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



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

	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
BLE+WIFI				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak 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) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/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(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix B. Radiated Spurious Emission Plots

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

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz + Band 2 - 5250~5350MHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE 2Mbps_CH39 2480MHz	
16	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto

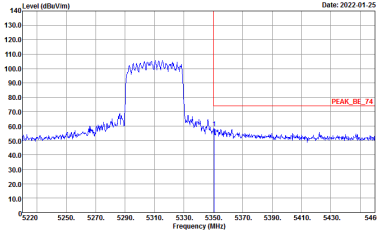
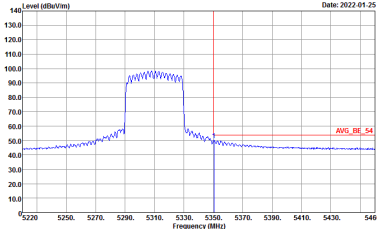


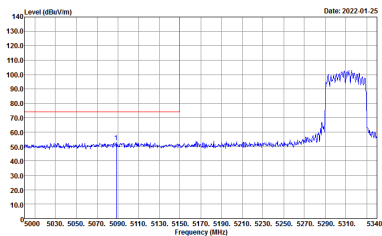
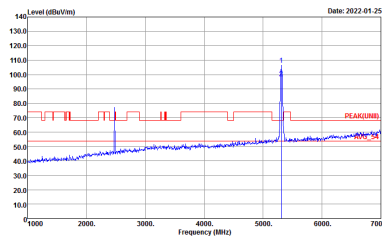
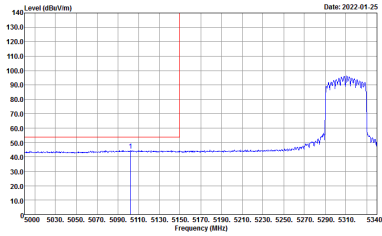
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE 2Mbps_CH39 2480MHz	
16	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto



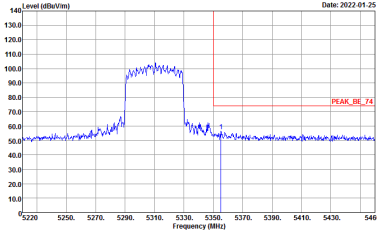
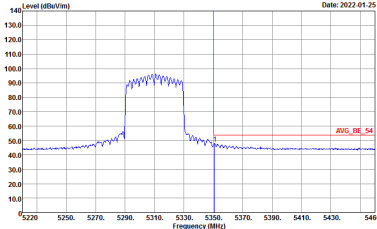
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH62 5310MHz - L	
17+18	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH62 5310MHz - R	
17+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH62 5310MHz - L	
17+18	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

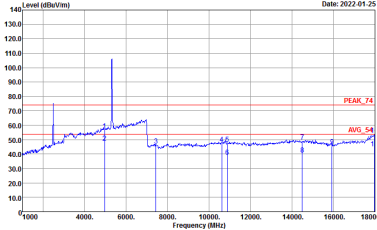
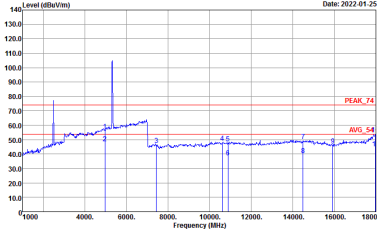


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH62 5310MHz - R	
17+18	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

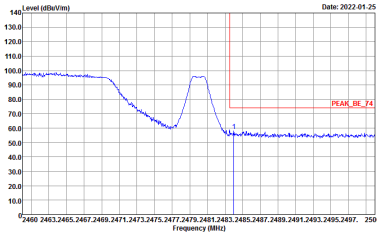
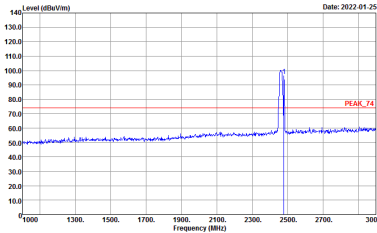
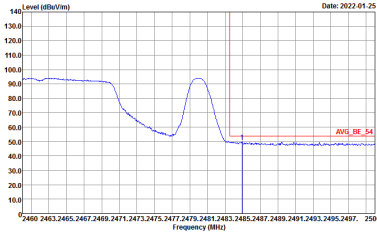
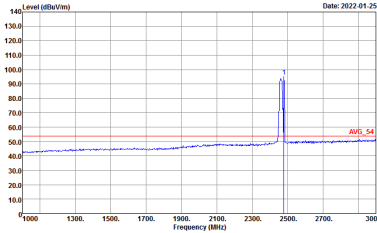


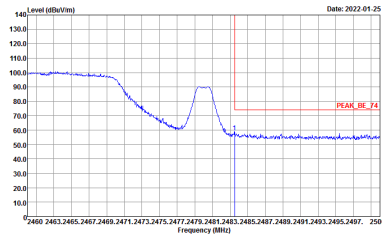
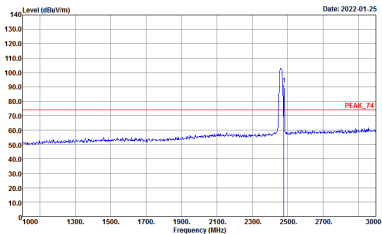
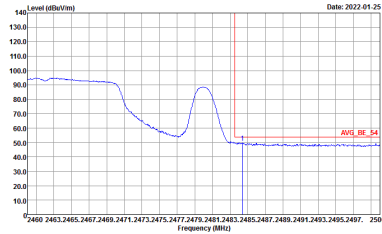
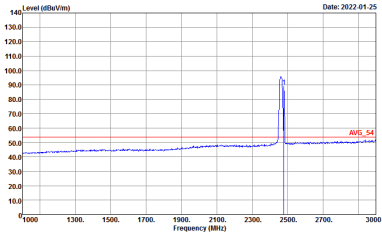
BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(Harmonic @ 3m)

	Co-location	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 VERTICAL

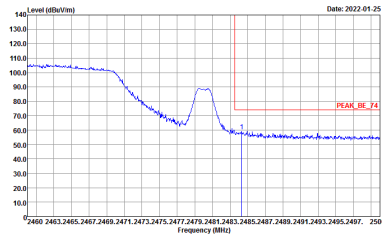
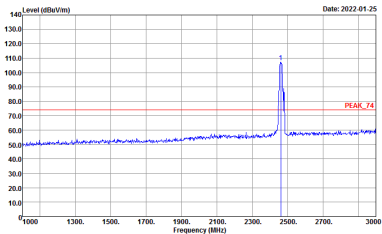
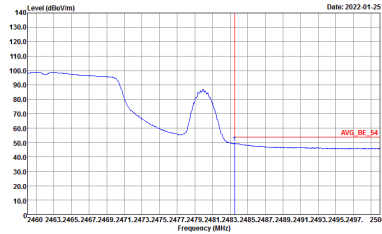
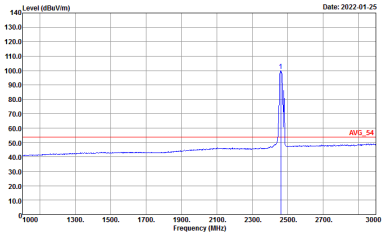
2.4GHz 2400~2483.5MHz
BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18
(Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE 2Mbps_CH39 2480MHz	
16	Horizontal	Fundamental
Peak	 Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site Condition : 03CH16-HY : PEAK_74 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site Condition : 03CH16-HY : AVG_BE_54 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000kHz VBW:10.000kHz SWT:Auto	 Site Condition : 03CH16-HY : AVG_54 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000kHz VBW:10.000kHz SWT:Auto
Avg.		

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE 2Mbps_CH39 2480MHz	
16	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto
Avg.		

**BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18****(Band Edge @ 3m)**

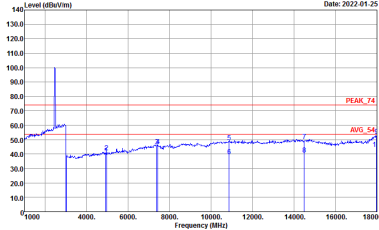
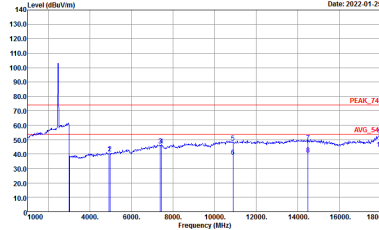
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g_CH11 2462MHz	
18	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH16-HY Condition : AVG_54 3m 91200_02114_210804 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g_CH11 2462MHz	
18	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 91200_02114_210804 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18

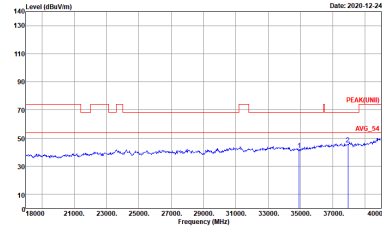
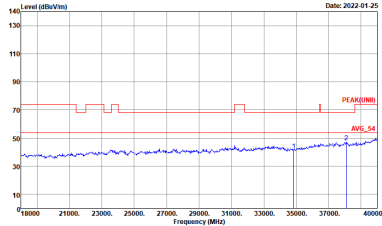
(Harmonic @ 3m)

	Co-location	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_02114_210804 VERTICAL

Emission above 18GHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(SHF @ 1m)

	Co-location	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UN1) 1m SHF HORN BBH49170584 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK(UN1) 1m SHF HORN BBH49170584 VERTICAL



Emission above 18GHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18

(SHF @ 1m)

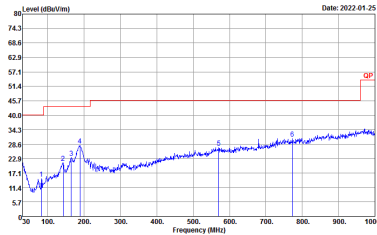
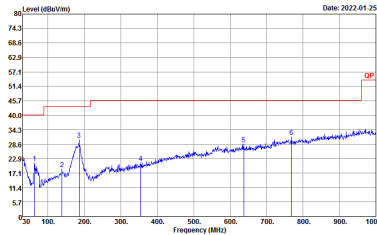
	Co-location	
	Horizontal	Vertical
Peak Avg.	Site : 03CH16-1PY Condition : PEAK_74 1m SHF HORN BBHA9170584 VERTICAL	Site : 03CH16-1PY Condition : PEAK_74 1m SHF HORN BBHA9170584 VERTICAL



Emission below 1GHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11ax HE40_TX_CH62 for MIMO <Ant. 17+18>

(LF@3m)

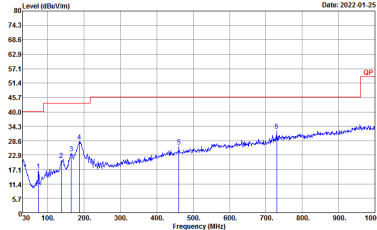
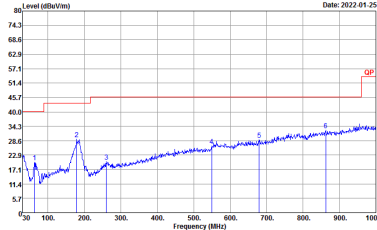
	Co-location	
	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP-3m B1LOG_47020_211009 HORIZONTAL Detector : Peak Project : 210628	 Site : 03CH16-HY Condition : QP-3m B1LOG_47020_211009 VERTICAL Detector : Peak Project : 210628



Emission below 1GHz

BLE_2Mbps_TX_CH39 for Ant. 16 + 802.11g_Tx_CH11 for Ant. 18

(LF@3m)

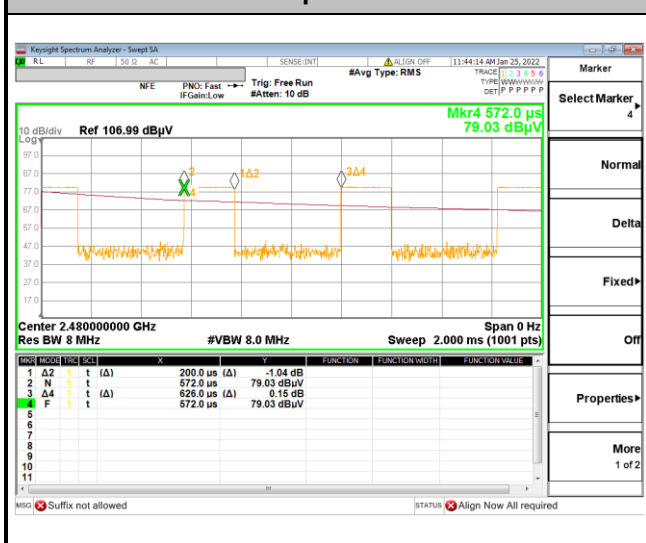
	Co-location	
	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m B1LOG_47020_211009 HORIZONTAL	 Site : 03CH16-HY Condition : QP 3m B1LOG_47020_211009 VERTICAL



Appendix C. Duty Cycle Plots

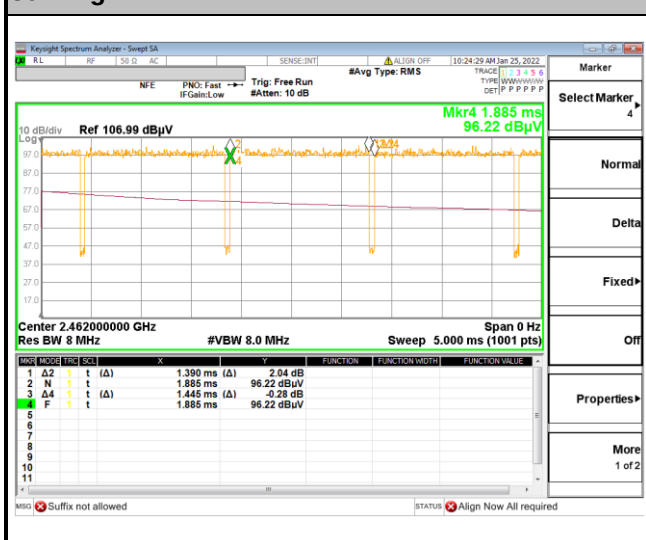
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
16	Bluetooth - LE for 2Mbps	31.95	200	5.00	10kHz
18	2.4GHz 802.11g	96.19	1390	0.72	1kHz
17+18	5GHz 802.11ax HE40 Full RU	90.85	536	1.87	3kHz

Bluetooth – LE for 2Mbps



<Ant. 18>

802.11g





MIMO <Ant. 17+18>

