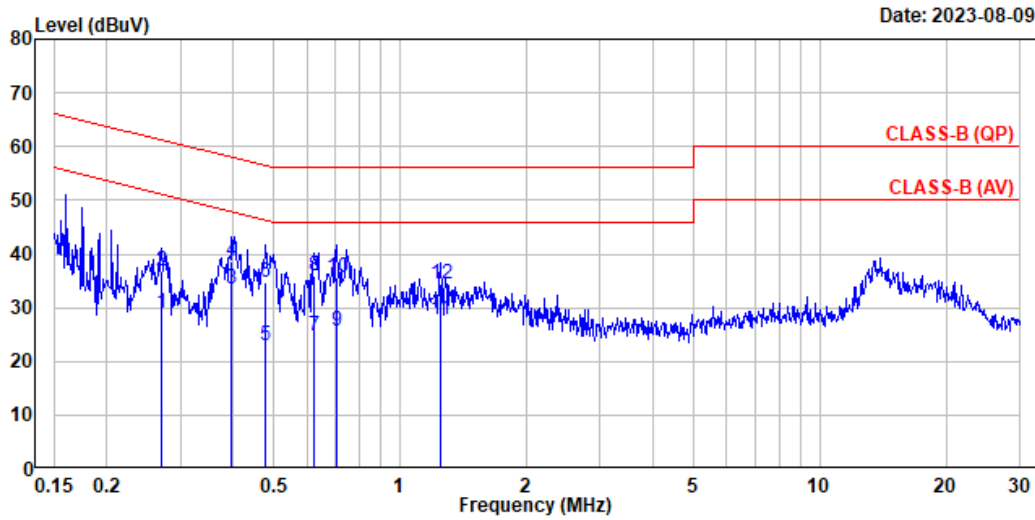


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A.1 CONDUCTED EMISSION

Test Date	2023/08/09	Temp./Hum.	24°C/56%
Test Voltage	DC 3.3V (Through jig via Notebook PC)	Tested By	Bruce Tseng



Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 24°C/56%	Test Rating	: DC 3.3V
EUT Model	: GB8763	Engineer	: Xar Zhuo
Test Mode	: Operating		

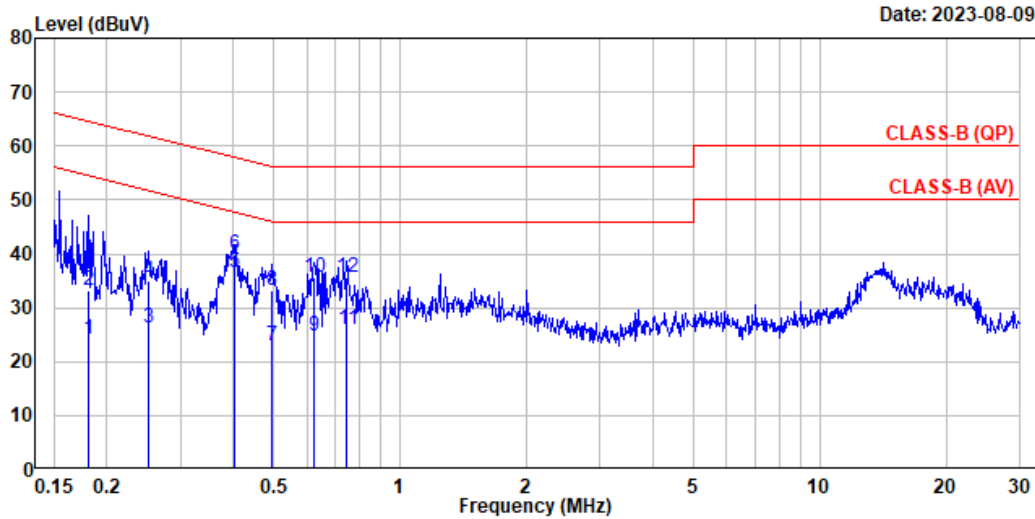
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.270	10.29	0.03	9.85	8.78	28.95	51.11	22.16	Average
2	0.270	10.29	0.03	9.85	16.74	36.91	61.11	24.20	QP
3	0.396	10.28	0.03	9.85	13.37	33.53	47.93	14.40	Average
4	0.396	10.28	0.03	9.85	18.62	38.78	57.93	19.15	QP
5	0.479	10.28	0.03	9.85	2.70	22.86	46.35	23.49	Average
6	0.479	10.28	0.03	9.85	14.48	34.64	56.35	21.71	QP
7	0.624	10.28	0.03	9.85	4.45	24.61	46.00	21.39	Average
8	0.624	10.28	0.03	9.85	15.74	35.90	56.00	20.10	QP
9	0.707	10.29	0.04	9.85	5.39	25.57	46.00	20.43	Average
10	0.707	10.29	0.04	9.85	15.47	35.65	56.00	20.35	QP
11	1.248	10.30	0.05	9.85	7.45	27.65	46.00	18.35	Average
12	1.248	10.30	0.05	9.85	14.29	34.49	56.00	21.51	QP

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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 No. 491, Zhongfu Rd., Linkou Dist.,
 New Taipei City 244, Taiwan

Tel: +886 2 26099301
 Fax: +886 2 26099303

Test Date	2023/08/09	Temp./Hum.	24°C/56%
Test Voltage	DC 3.3V (Through jig via Notebook PC)	Tested By	Bruce Tseng



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 24°C/56%	Test Rating	: DC 3.3V
EUT Model	: GB8763	Engineer	: Xar Zhuo
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.180	10.29	0.03	9.85	3.91	24.08	54.47	30.39	Average
2	0.180	10.29	0.03	9.85	13.10	33.27	64.47	31.20	QP
3	0.251	10.28	0.03	9.85	6.22	26.38	51.74	25.36	Average
4	0.251	10.28	0.03	9.85	14.96	35.12	61.74	26.62	QP
5	0.402	10.27	0.03	9.85	16.27	36.42	47.80	11.38	Average
6	0.402	10.27	0.03	9.85	19.63	39.78	57.80	18.02	QP
7	0.496	10.27	0.03	9.85	2.86	23.01	46.06	23.05	Average
8	0.496	10.27	0.03	9.85	13.02	33.17	56.06	22.89	QP
9	0.624	10.27	0.03	9.85	4.74	24.89	46.00	21.11	Average
10	0.624	10.27	0.03	9.85	15.38	35.53	56.00	20.47	QP
11	0.747	10.28	0.04	9.85	5.81	25.98	46.00	20.02	Average
12	0.747	10.28	0.04	9.85	15.33	35.50	56.00	20.50	QP

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

A.2 RADIATED EMISSION

Test Date	2023/08/07	Temp./Hum.	22°C/47%
Test Voltage	DC 3.3V (Through jig via Notebook PC)	Tested By	Hua Wu

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

Mode	BLE (2M)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.014	21.57	1.55	26.48	38.83	35.48	40.00	4.52	Peak
49.012	14.76	1.81	26.46	36.75	26.87	40.00	13.13	Peak
128.746	17.56	2.96	26.11	32.43	26.84	43.50	16.66	Peak
199.750	15.29	3.70	25.79	41.15	34.35	43.50	9.15	Peak
324.104	19.61	5.02	25.83	35.13	33.93	46.00	12.07	Peak
416.836	21.85	6.08	26.57	34.00	35.36	46.00	10.64	Peak

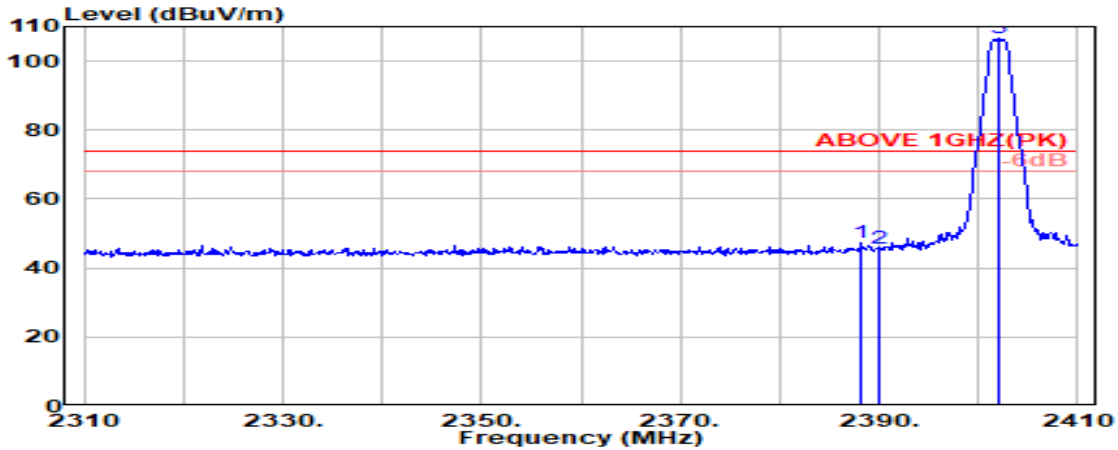
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.984	21.02	1.58	26.48	38.53	34.64	40.00	5.36	Peak
72.292	12.40	2.22	26.37	36.13	24.38	40.00	15.62	Peak
214.688	16.19	3.88	25.76	36.45	30.76	43.50	12.74	Peak
324.104	19.61	5.02	25.83	35.75	34.55	46.00	11.45	Peak
431.968	22.10	6.22	26.68	33.02	34.65	46.00	11.35	Peak
520.626	23.41	6.84	27.19	32.61	35.66	46.00	10.34	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

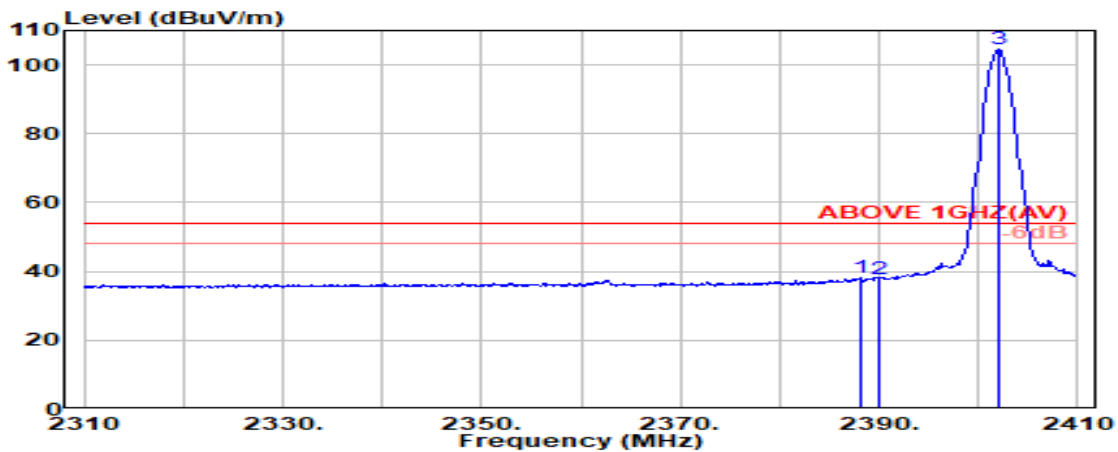
Band Edge:

Mode	BLE (2M)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.200	28.22	5.72	39.93	53.43	47.45	74.00	26.55	Peak
2390.000	28.22	5.72	39.93	51.55	45.57	74.00	28.43	Peak
@ 2402.000	28.20	5.74	39.93	112.49	106.50	---	---	Peak

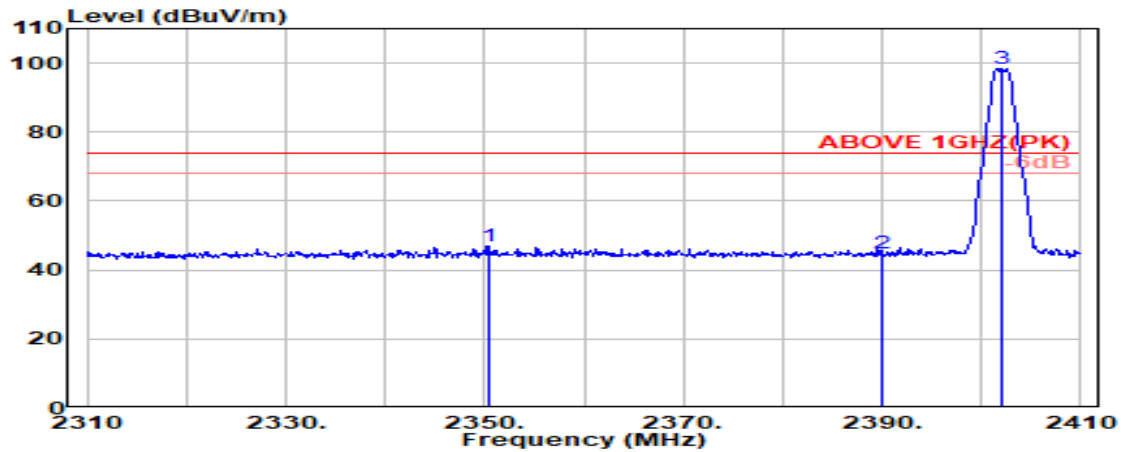


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.200	28.22	5.72	39.93	44.26	38.27	54.00	15.73	Average
2390.000	28.22	5.72	39.93	43.96	37.97	54.00	16.03	Average
@ 2402.100	28.20	5.74	39.93	110.38	104.40	---	---	Average

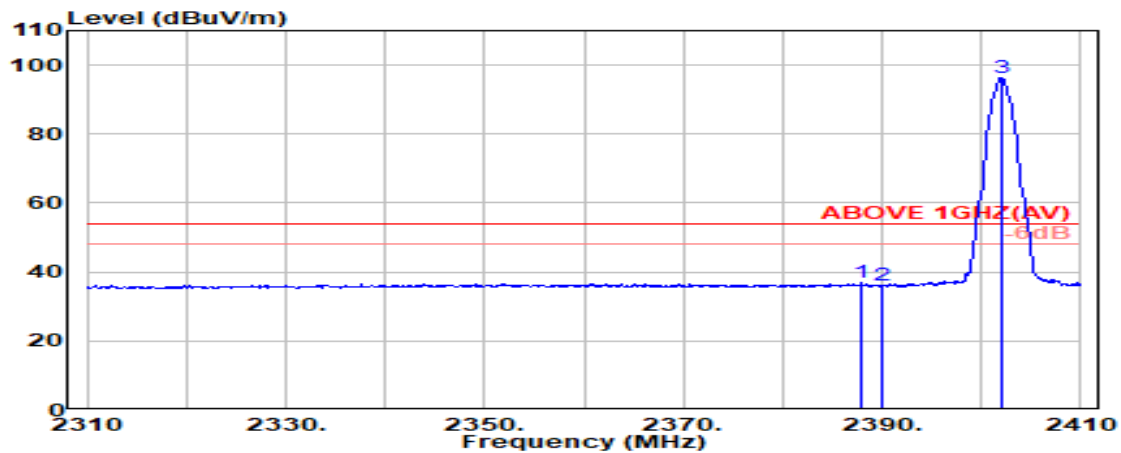
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BLE (2M)	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2350.400	28.30	5.66	39.93	52.81	46.84	74.00	27.16	Peak
2390.000	28.22	5.72	39.93	50.77	44.79	74.00	29.21	Peak
@ 2402.000	28.20	5.74	39.93	104.41	98.42	---	---	Peak

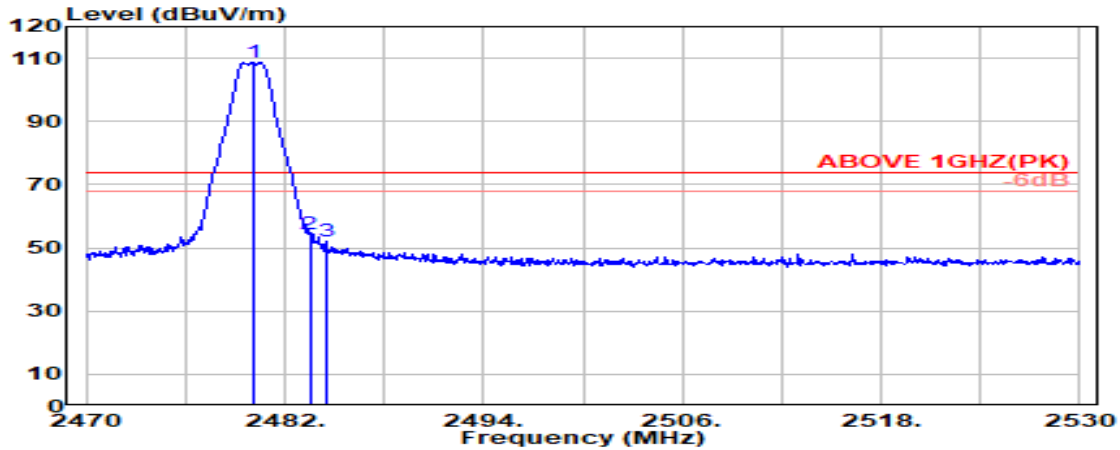


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.900	28.22	5.72	39.93	42.75	36.76	54.00	17.24	Average
2390.000	28.22	5.72	39.93	42.19	36.21	54.00	17.79	Average
@ 2402.000	28.20	5.74	39.93	102.30	96.32	---	---	Average

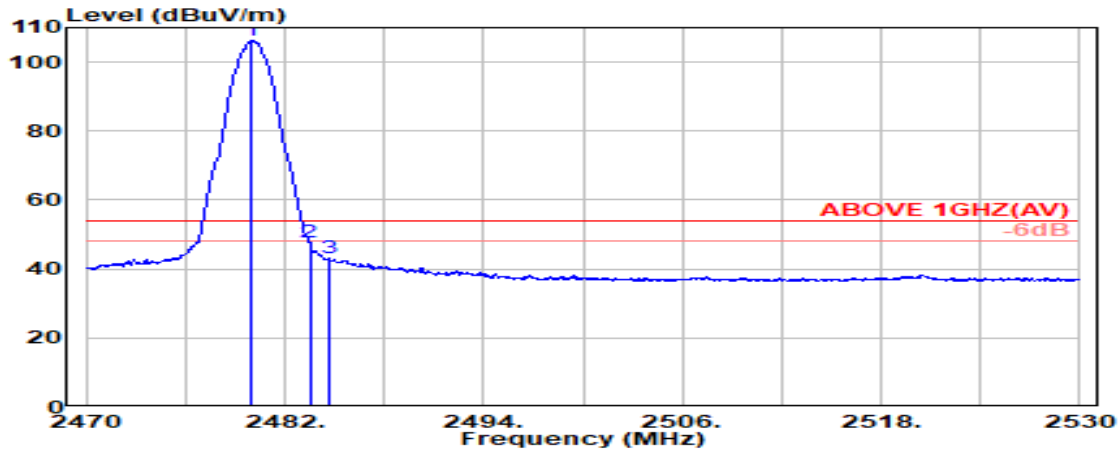
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BLE (2M)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.86	39.92	114.36	108.66	---	---	Peak
2483.500	28.37	5.87	39.92	60.21	54.53	74.00	19.47	Peak
2484.500	28.37	5.87	39.92	57.78	52.09	74.00	21.91	Peak

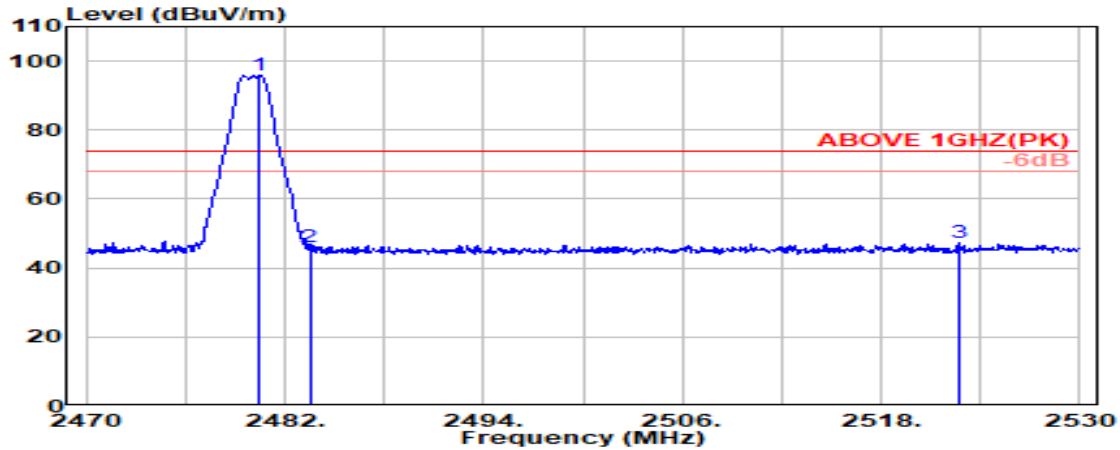


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.36	5.86	39.92	111.86	106.15	---	---	Average
2483.500	28.37	5.87	39.92	53.40	47.71	54.00	6.29	Average
2484.750	28.37	5.87	39.92	48.65	42.97	54.00	11.03	Average

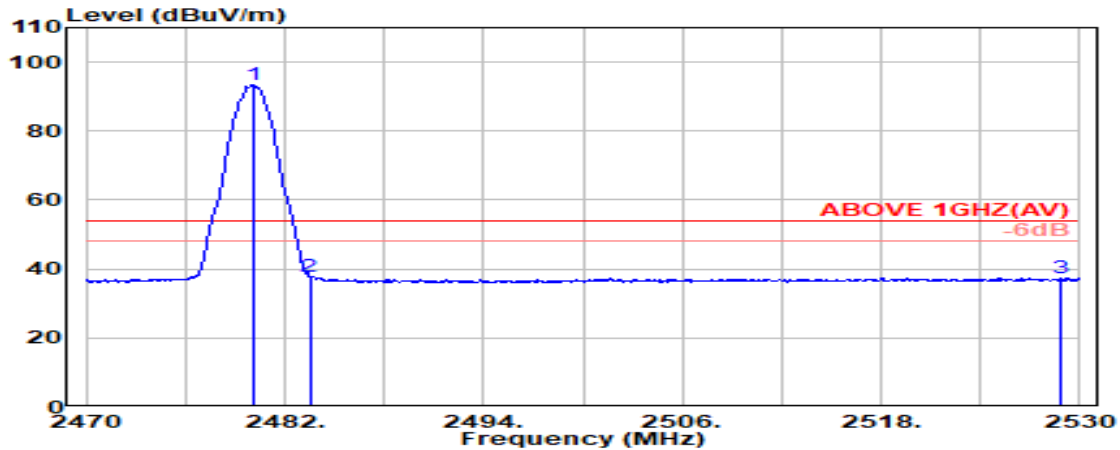
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BLE (2M)	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.500	28.36	5.86	39.92	101.49	95.79	---	---	Peak
2483.500	28.37	5.87	39.92	51.85	46.16	74.00	27.84	Peak
2522.650	28.54	5.94	39.93	52.58	47.14	74.00	26.86	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.86	39.92	99.29	93.59	---	---	Average
2483.500	28.37	5.87	39.92	43.48	37.79	54.00	16.21	Average
2528.850	28.57	5.96	39.93	42.71	37.32	54.00	16.68	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	BLE (2M)				Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.53	39.39	41.20	43.26	54.00	10.74	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.53	39.39	42.20	44.26	54.00	9.74	Peak

Mode	BLE (2M)				Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.32	8.63	39.35	41.89	44.49	54.00	9.51	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.32	8.63	39.35	41.34	43.94	54.00	10.06	Peak

Mode	BLE (2M)				Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.32	8.75	39.32	42.00	44.75	54.00	9.25	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.32	8.75	39.32	41.12	43.87	54.00	10.13	Peak

A.2.3 Emissions in Non-restricted Frequency Bands:

Pursuant to ANSI C63.10:2013 that emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

A.3 DTS/OCCUPIED BANDWIDTH

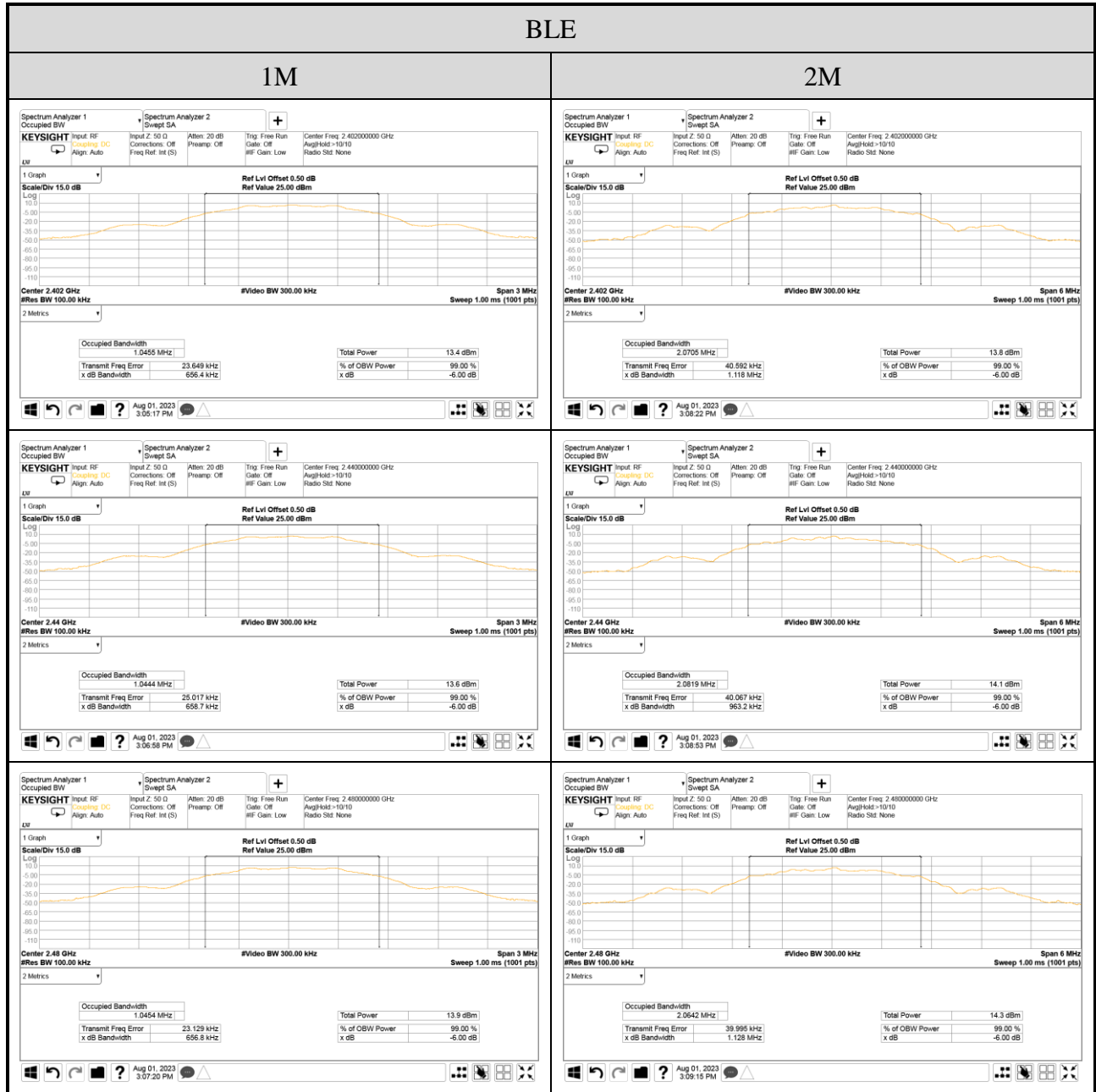
Test Date	2023/08/01	Temp./Hum.	25°C/53%
Cable Loss	0.50dB	Tested By	Hua Wu
Test Voltage	DC 3.3V (Through jig via Notebook PC)		

A.3.1 DTS/Occupied Bandwidth Result

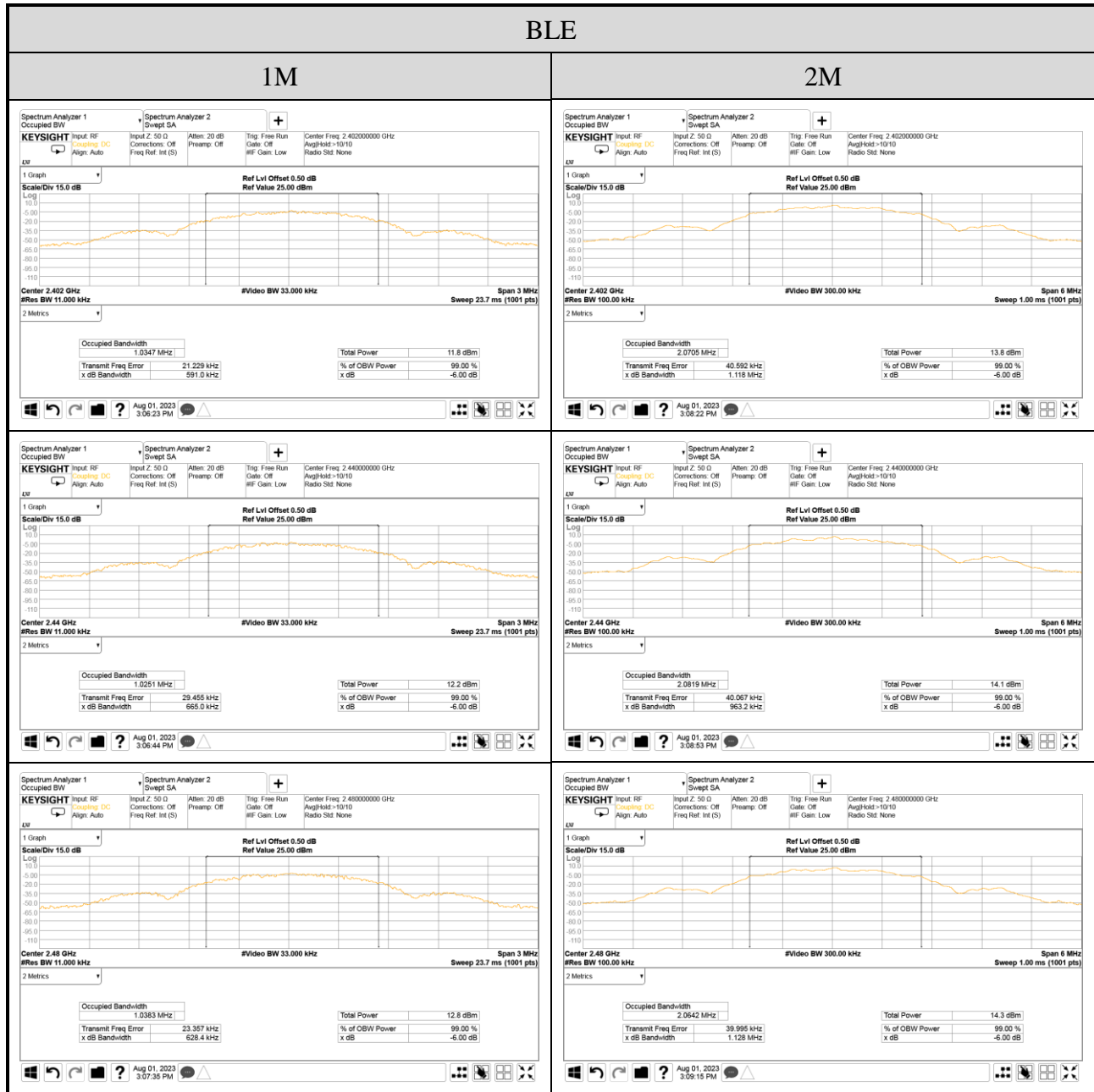
Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
BLE (1M)	2402	0.6564	1.0347	>500kHz
	2440	0.6587	1.0251	
	2480	0.6568	1.0383	
BLE (2M)	2402	1.1180	2.0705	
	2440	0.9632	2.0819	
	2480	1.1280	2.0642	

A.3.2 Measurement Plots

- DTS (6dB) Bandwidth



● Occupied (99%) Bandwidth



A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2023/07/27	Temp./Hum.	25°C/53%
Cable Loss	0.50dB	Tested By	Hua Wu
Test Voltage	DC 3.3V (Through jig via Notebook PC)		

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) Note 2	Limit
BLE (1M)	2402	7.48	3.20	10.68	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	7.78	3.20	10.98	
	2480	8.02	3.20	11.22	
BLE (2M)	2402	7.61	3.20	10.81	
	2440	7.90	3.20	11.10	
	2480	8.17	3.20	11.37	

Note: 1. The results have been included cable loss.
 2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

A.4.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	Duty cycle factor (dB) 10log (1/x)	Max. Average Output Power (dBm) Note 3	Antenna Gain (dBi)	E.I.R.P (dBm) Note 2	Limit
BLE (1M)	2402	5.26	2.007	7.27	3.20	10.47	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	5.56	2.007	7.57	3.20	10.77	
	2480	5.81	2.007	7.82	3.20	11.02	
BLE (2M)	2402	2.62	4.789	7.41	3.20	10.61	
	2440	2.93	4.789	7.72	3.20	10.92	
	2480	3.17	4.789	7.96	3.20	11.16	

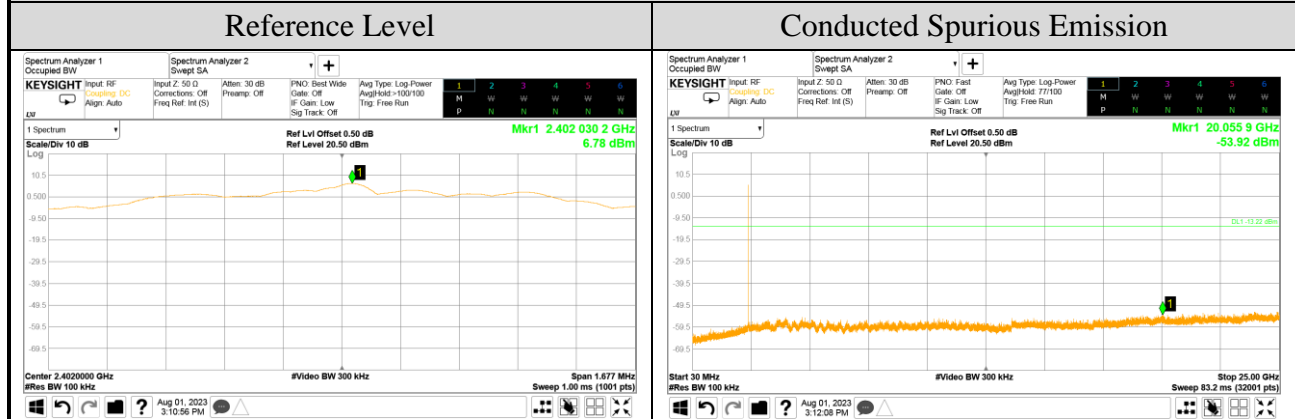
Note: 1. The results have been included cable loss.
 2. E.I.R.P.= The Max. average Output Power (dBm)+ Antenna Gain (dBi).
 3. Max Average Output Power (dBm) = Average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

A.5 EMISSION LIMITATIONS

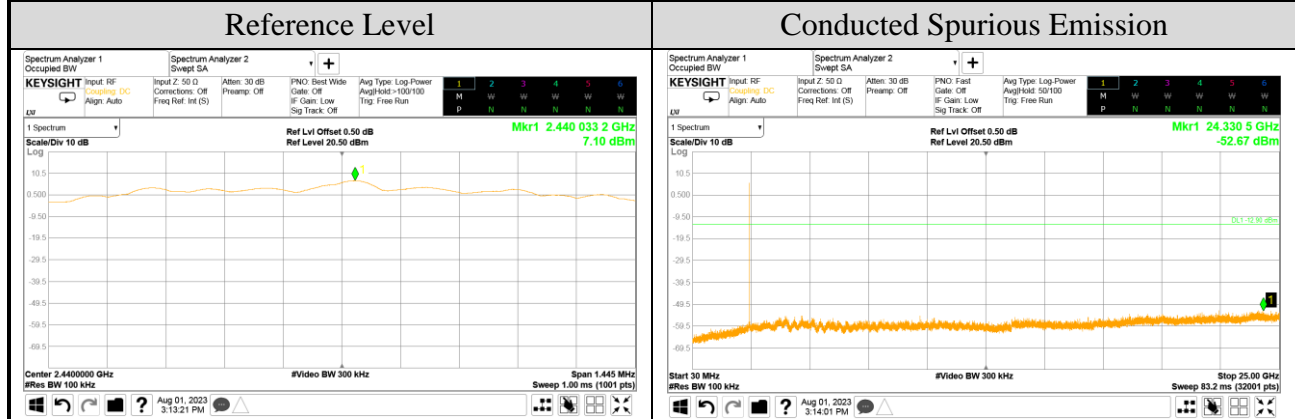
Test Date	2023/08/01	Temp./Hum.	25°C/53%
Cable Loss	0.50dB	Tested By	Hua Wu
Test Voltage	DC 3.3V (Through jig via Notebook PC)		

BLE

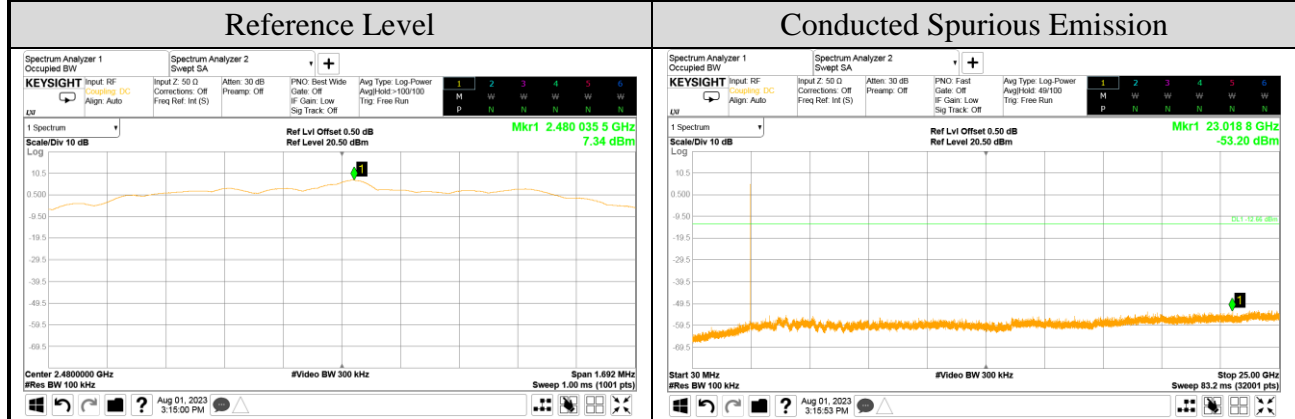
TX 2402MHz

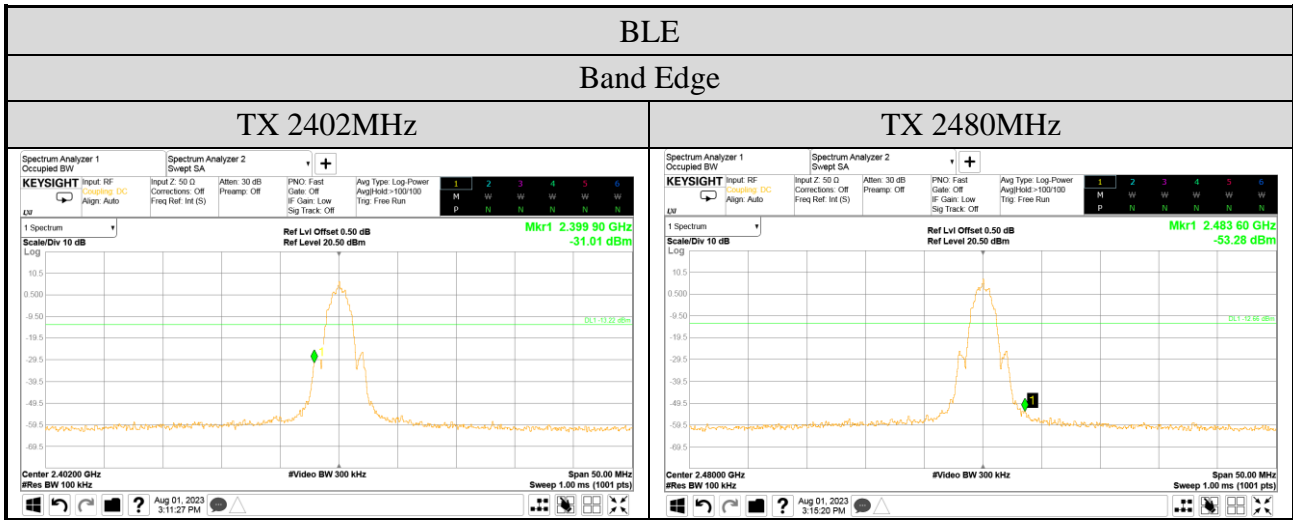


TX 2440MHz



TX 2480MHz





A.6 POWER SPECTRAL DENSITY

Test Date	2023/08/01	Temp./Hum.	25°C/53%
Cable Loss	0.50dB	Tested By	Hua Wu
Test Voltage	DC 3.3V (Through jig via Notebook PC)		

A.6.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
BLE	2402	6.78	<8 dBm/3kHz
	2440	7.10	
	2480	7.34	

Note: 1. All results have been included cable loss and Simultaneous Factor.
 2. For KDB558074 D01V04, in the test result, when RBW set at 100kHz is stricter than 3kHz.

A.6.2 Measurement Plots



Note: All results have been included cable loss.