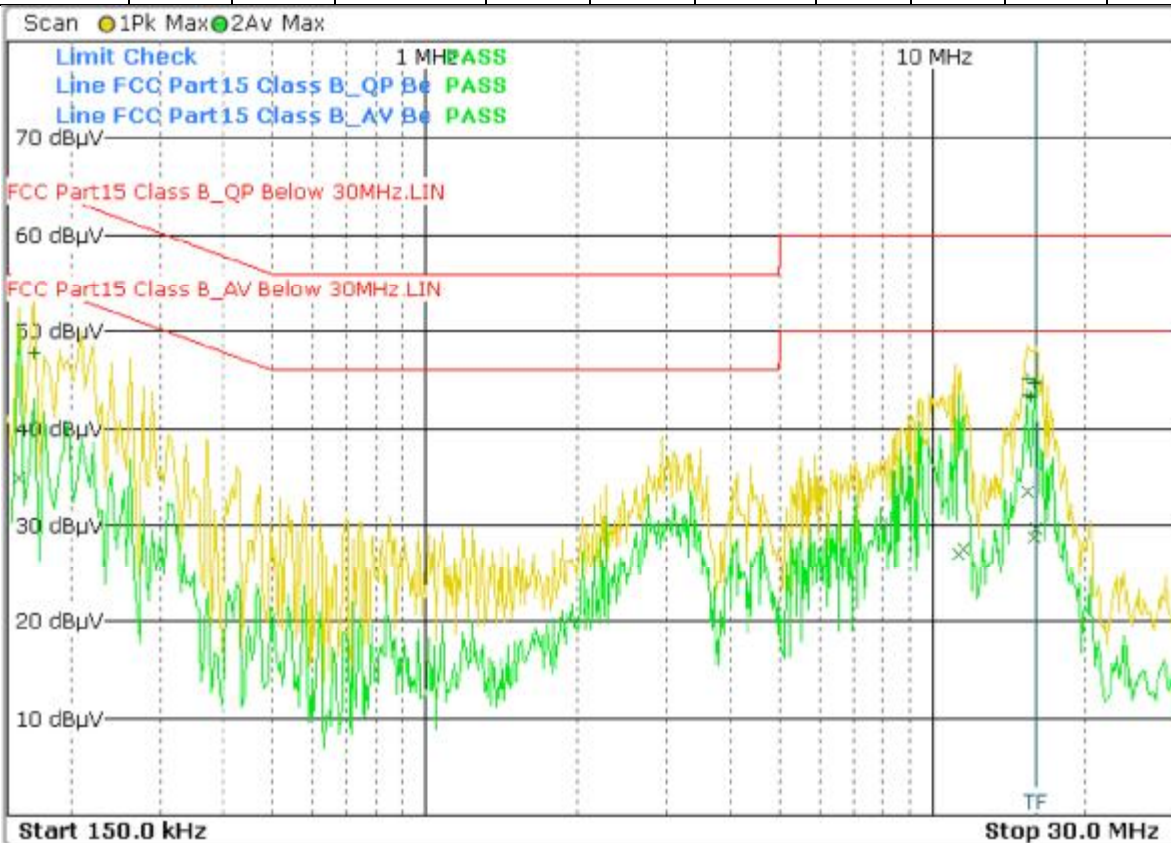


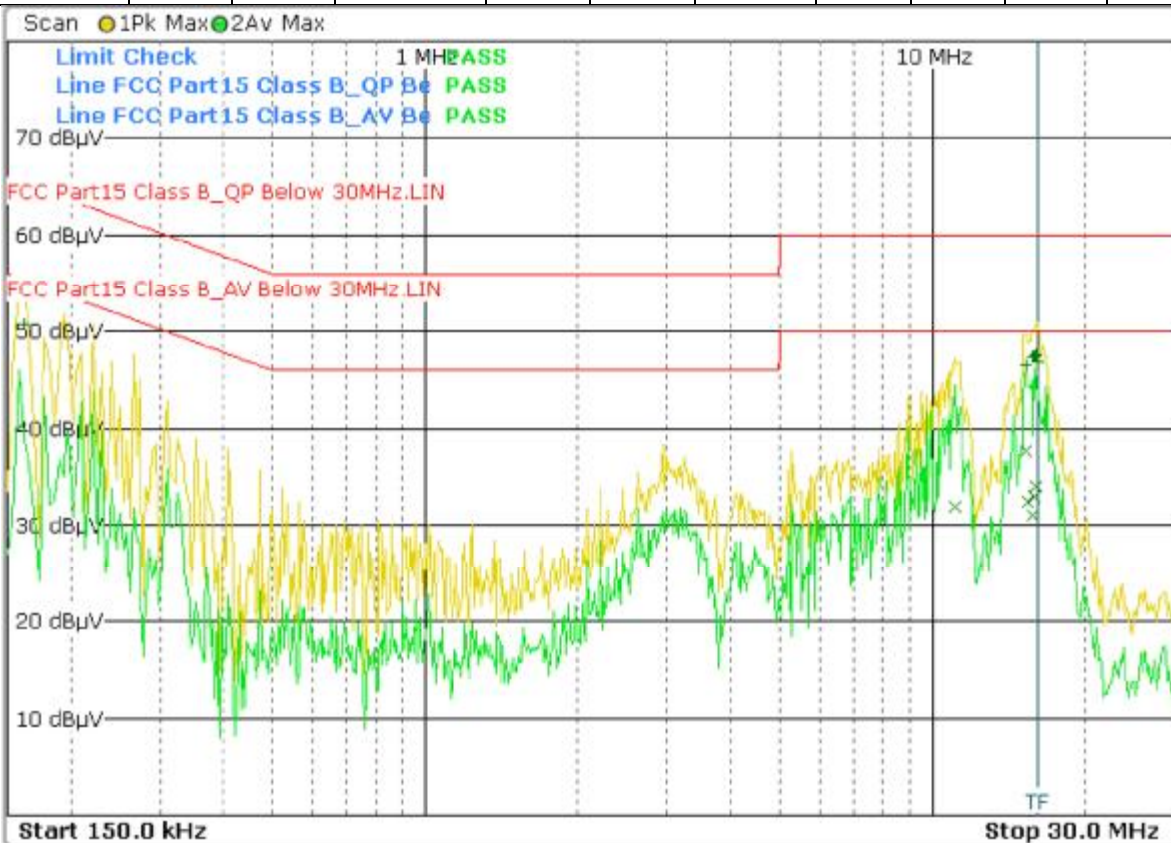
4. Conducted Power Line Test
4.7 Conducted Power Line Test Result

☑ Test Mode 1			FCC15 Power-line Conducted Emissions							
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
0.158	37.43	24.49	10.30	47.73	34.79	Line	65.57	55.57	-17.84	-20.78
11.266	32.46	16.20	10.80	43.26	27.00	Line	60.00	50.00	-16.74	-23.00
15.394	34.11	22.38	11.00	45.11	33.38	Line	60.00	50.00	-14.89	-16.62
15.462	32.42	17.72	10.90	43.32	28.62	Line	60.00	50.00	-16.68	-21.38
15.866	33.69	17.80	11.00	44.69	28.80	Line	60.00	50.00	-15.31	-21.20
15.986	33.89	18.71	10.90	44.79	29.61	Line	60.00	50.00	-15.21	-20.39



- Note:**
- 1.Uncertainty in conducted emission measured is <+/- 2dB.
 - 2.The emission levels of other frequencies were very low against the limit.
 - 3.All Reading Levels are Quasi-Peak and Average value.
 - 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
 - 5.Margin Value= Emission Level - Limit Value.

☑ Test Mode 1		FCC15 Power-line Conducted Emissions								
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
11.082	36.50	21.64	10.30	46.80	31.94	Neutral	60.00	50.00	-13.20	-18.06
15.278	35.77	26.77	10.80	46.57	37.57	Neutral	60.00	50.00	-13.43	-12.43
15.406	36.34	21.48	11.00	47.34	32.48	Neutral	60.00	50.00	-12.66	-17.52
15.814	36.44	20.12	10.90	47.34	31.02	Neutral	60.00	50.00	-12.66	-18.98
15.930	36.40	21.89	11.00	47.40	32.89	Neutral	60.00	50.00	-12.60	-17.11
16.054	36.74	23.12	10.90	47.64	34.02	Neutral	60.00	50.00	-12.36	-15.98



Note:

- 1.Uncertainty in conducted emission measured is <+/- 2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.

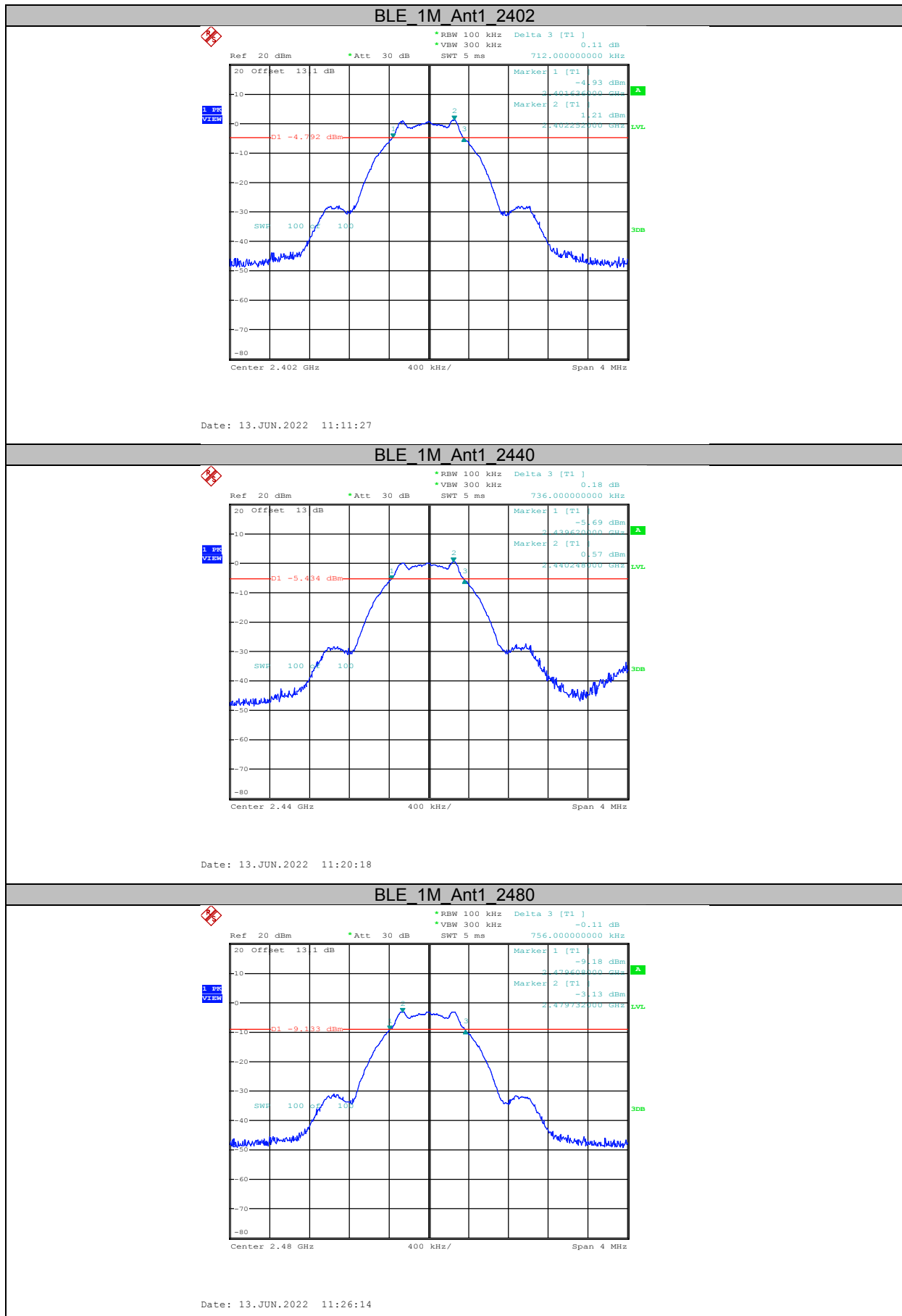
5. FCC Part 15.247 Requirements for DTS Systems
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5. 7 Test Result

**Appendix A: DTS Bandwidth
Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.736	2439.620	2440.356	0.5	PASS
		2480	0.756	2479.608	2480.364	0.5	PASS

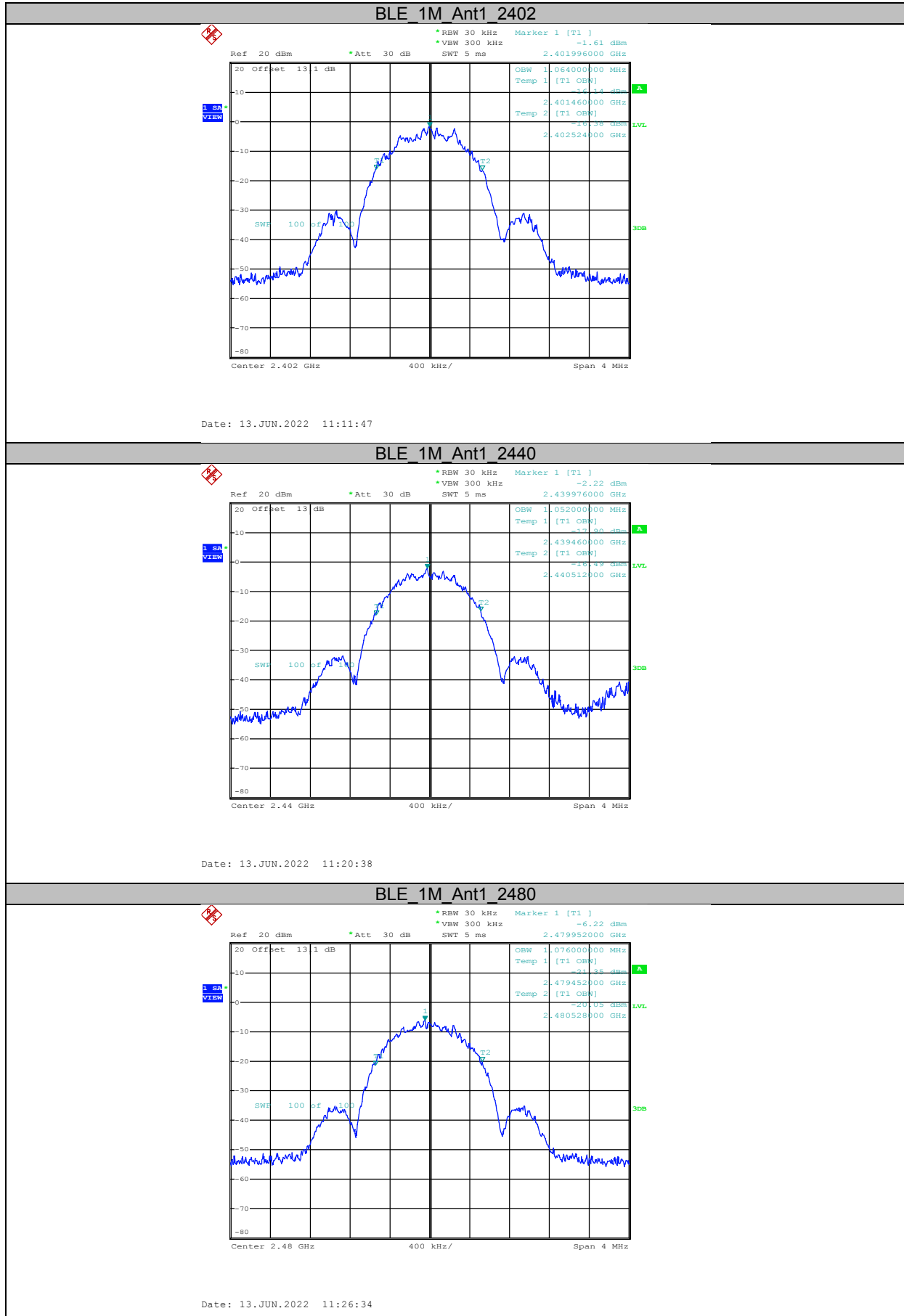
Test Graphs



Appendix B: Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.064	2401.460	2402.524	---	PASS
		2440	1.052	2439.460	2440.512	---	PASS
		2480	1.076	2479.452	2480.528	---	PASS

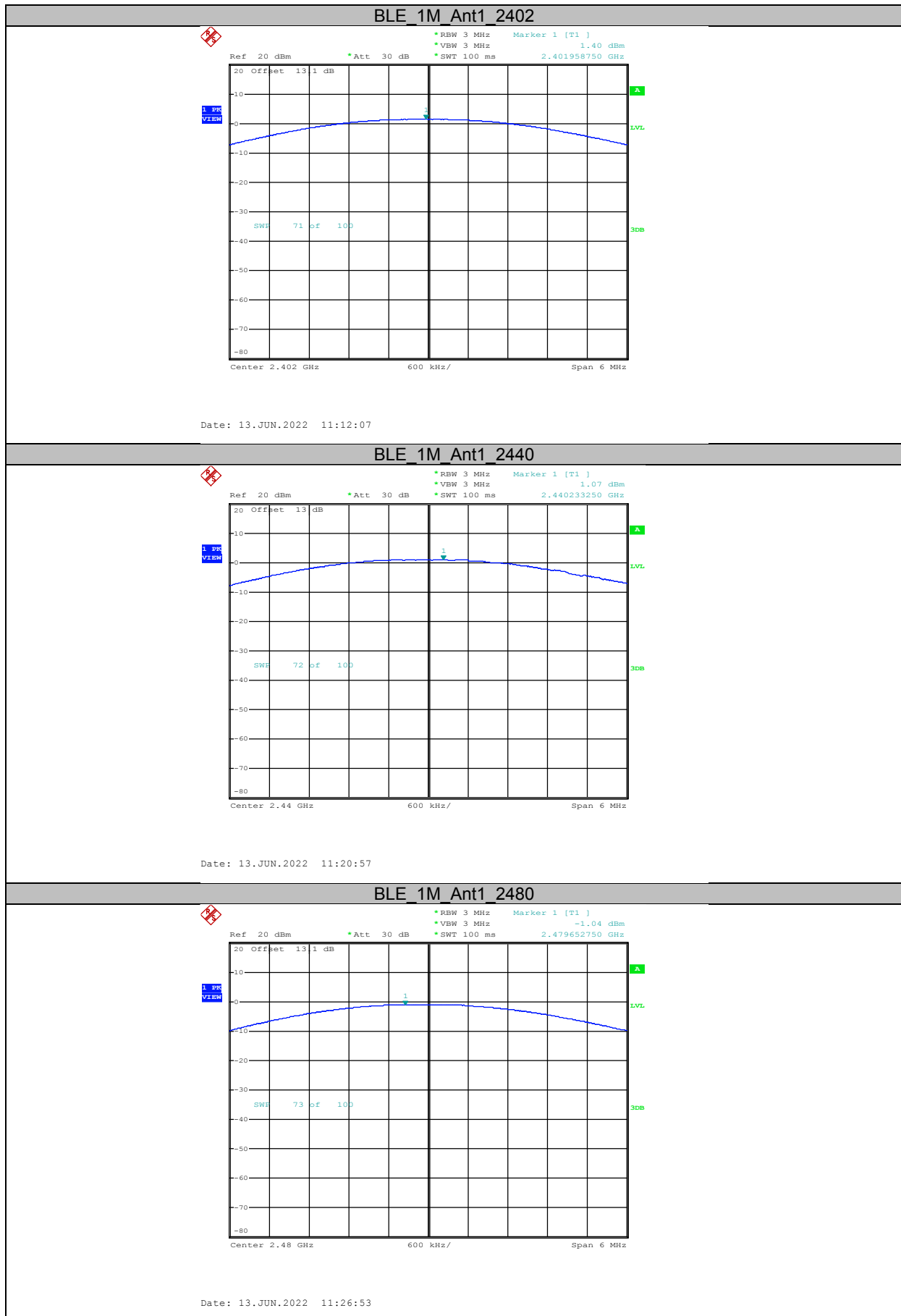
Test Graphs



**Appendix C: Maximum conducted output power
Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.4	<=30	PASS
		2440	1.07	<=30	PASS
		2480	-1.04	<=30	PASS

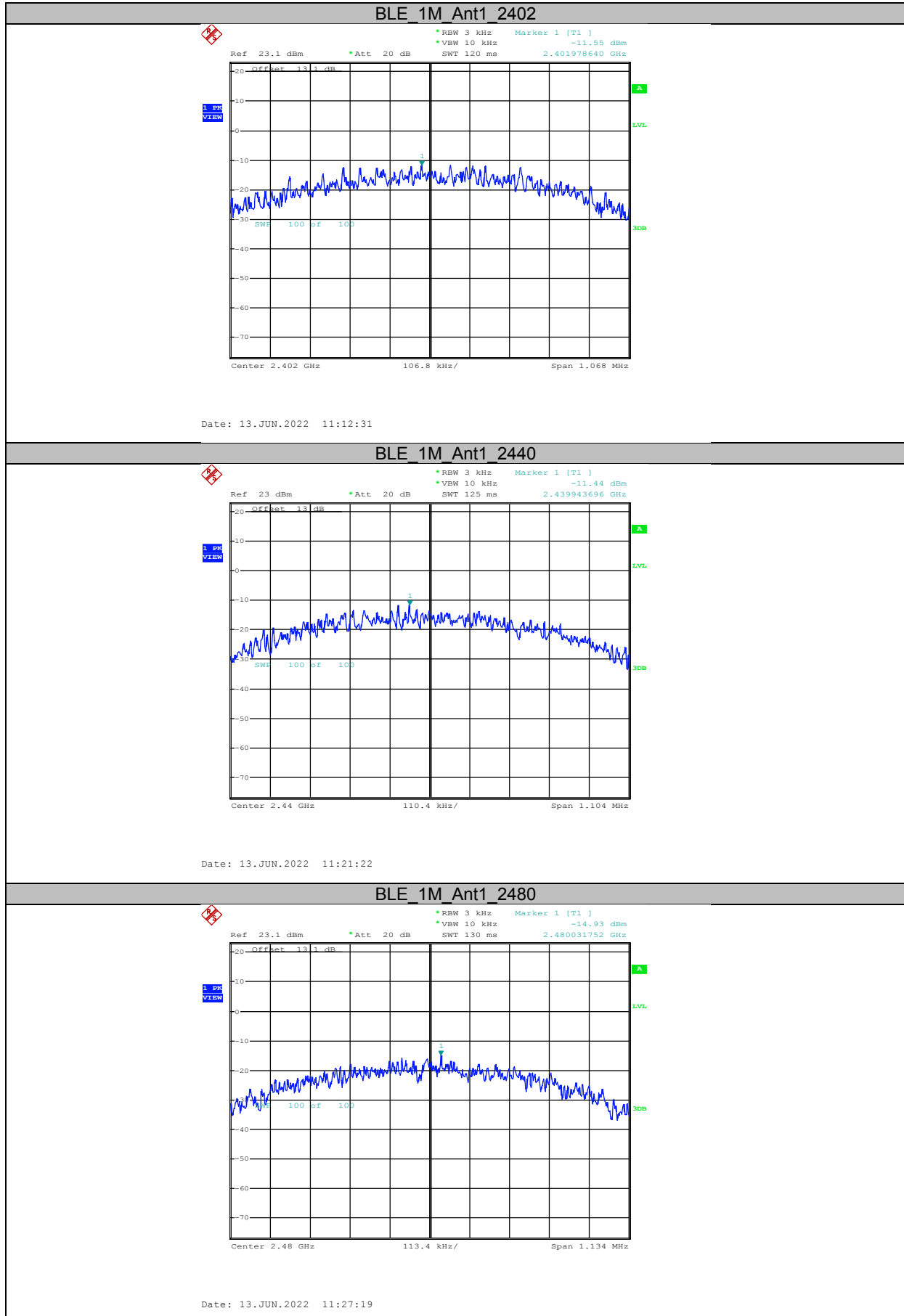
Test Graphs



**Appendix D: Maximum power spectral density
Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.55	<=8	PASS
		2440	-11.44	<=8	PASS
		2480	-14.93	<=8	PASS

Test Graphs

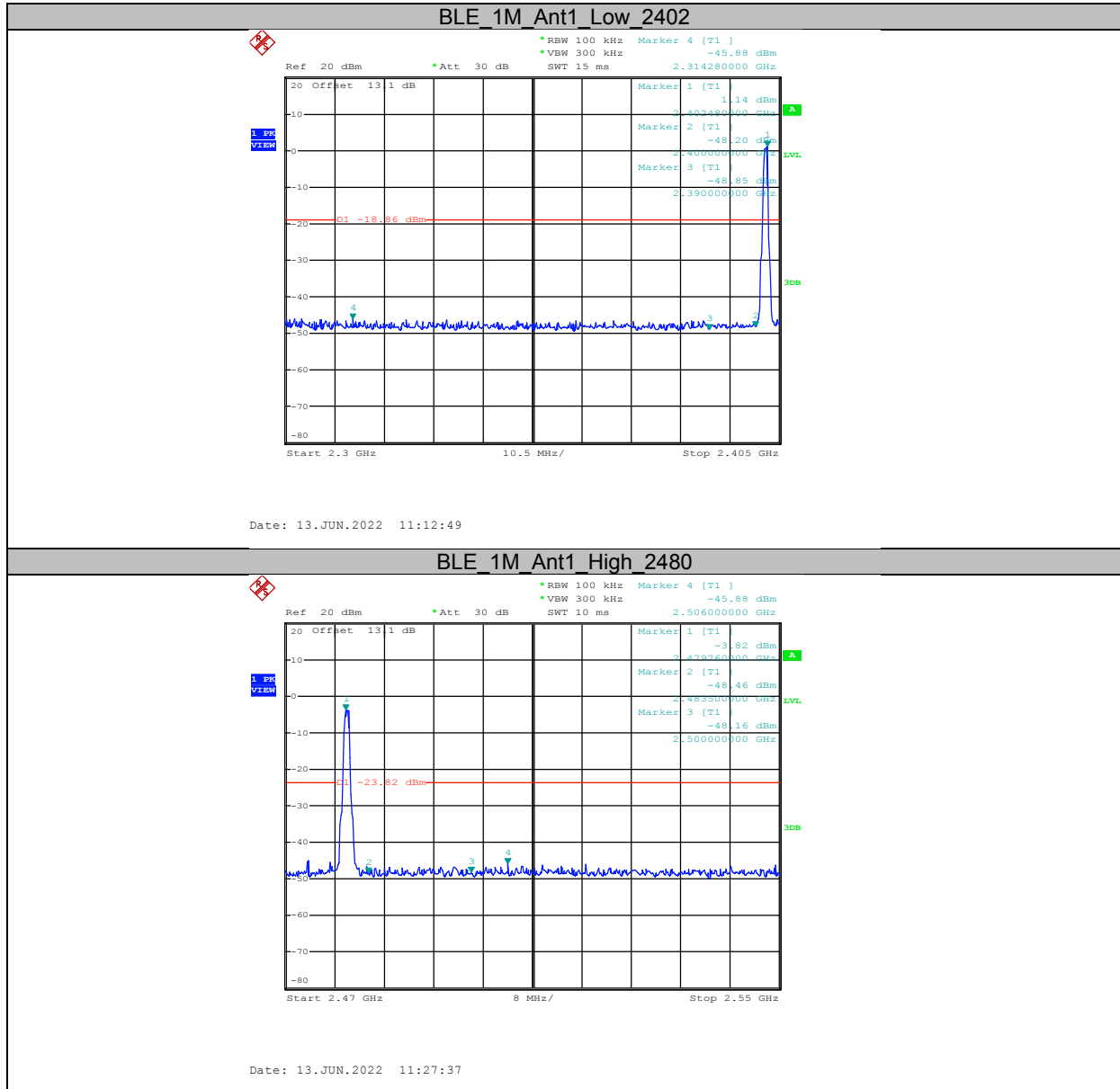


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.14	-45.88	<=-18.86	PASS
		High	2480	-3.82	-45.88	<=-23.82	PASS

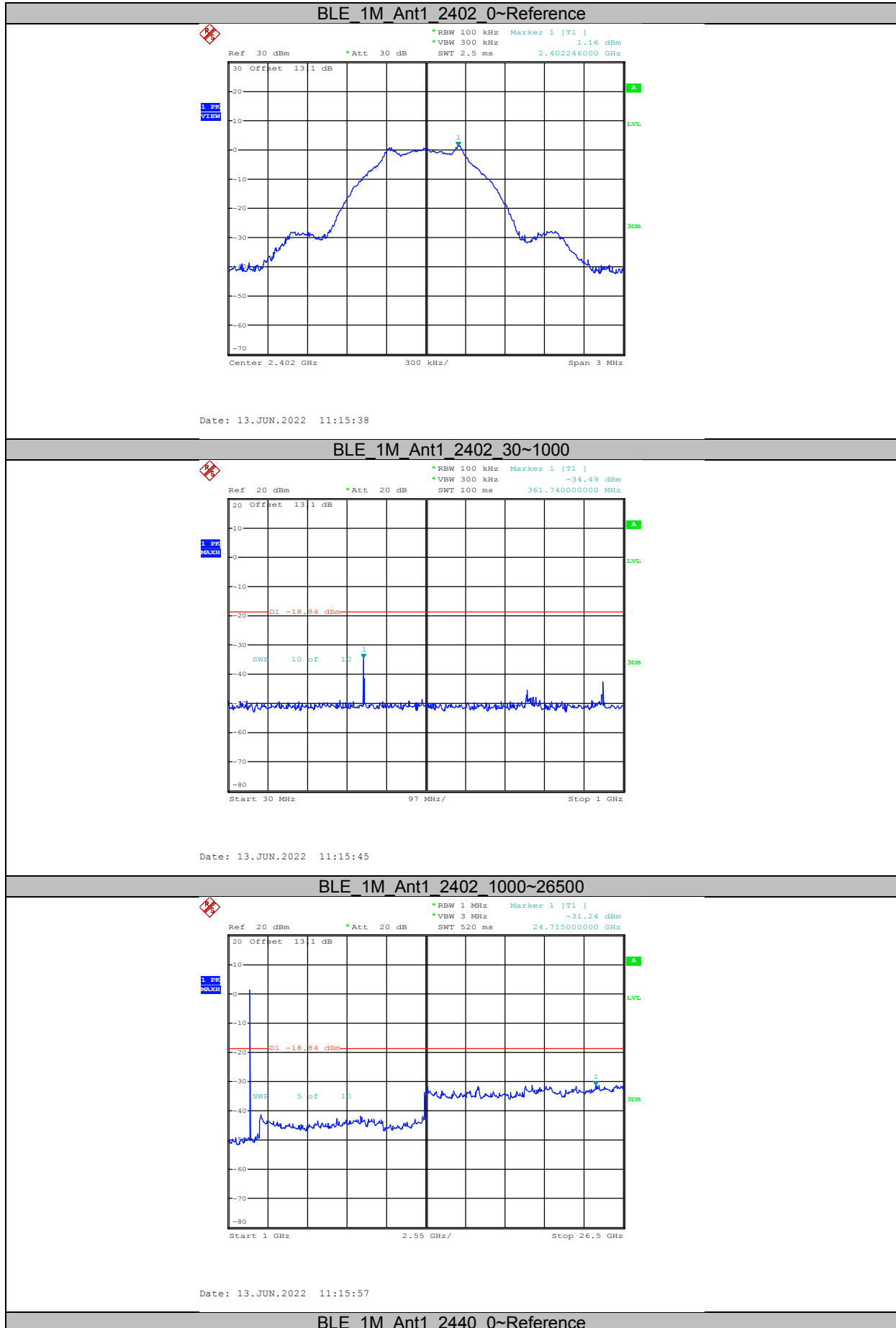
Test Graphs

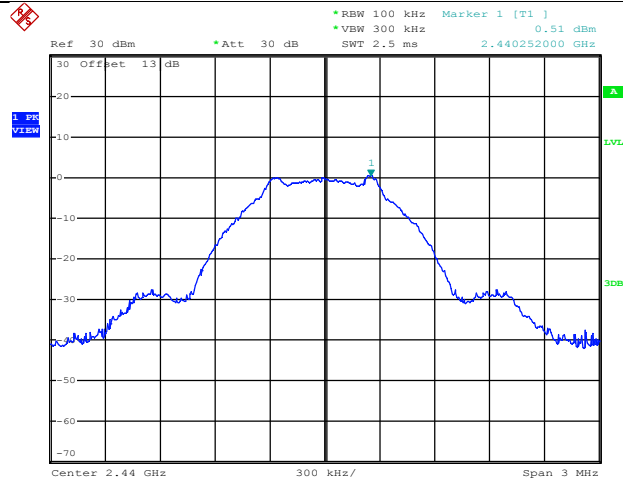


Appendix F: Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.16	1.16	---	PASS
			30~1000	30~1000	-34.49	<=-18.84	PASS
			1000~26500	1000~26500	-31.24	<=-18.84	PASS
		2440	Reference	0.51	0.51	---	PASS
			30~1000	30~1000	-35.1	<=-19.49	PASS
			1000~26500	1000~26500	-31.2	<=-19.49	PASS
		2480	Reference	-3.40	-3.40	---	PASS
			30~1000	30~1000	-36.97	<=-23.4	PASS
			1000~26500	1000~26500	-30.12	<=-23.4	PASS

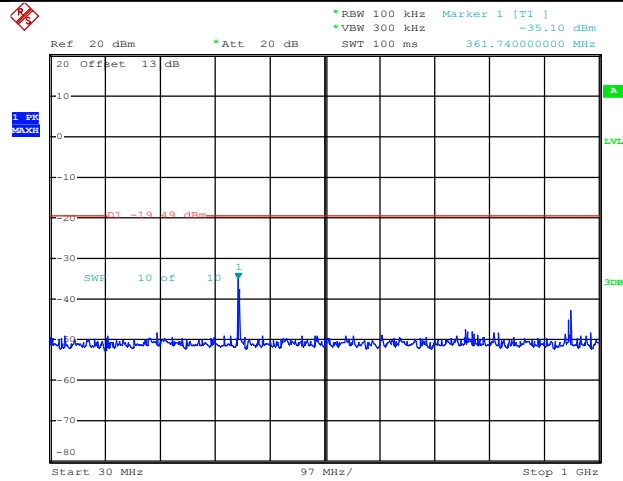
Test Graphs





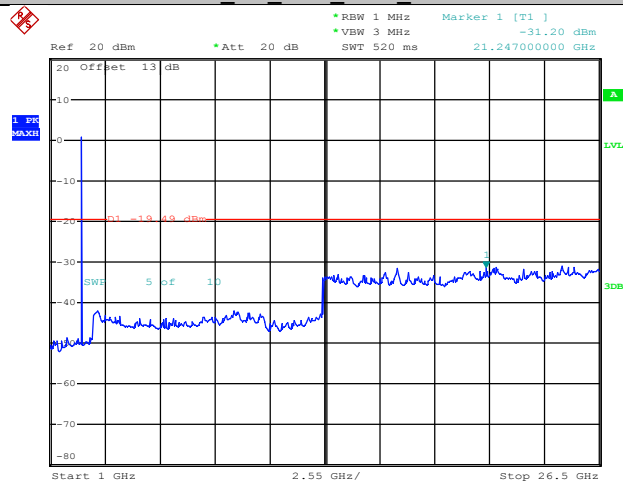
Date: 13.JUN.2022 11:21:30

BLE 1M Ant1 2440 30~1000



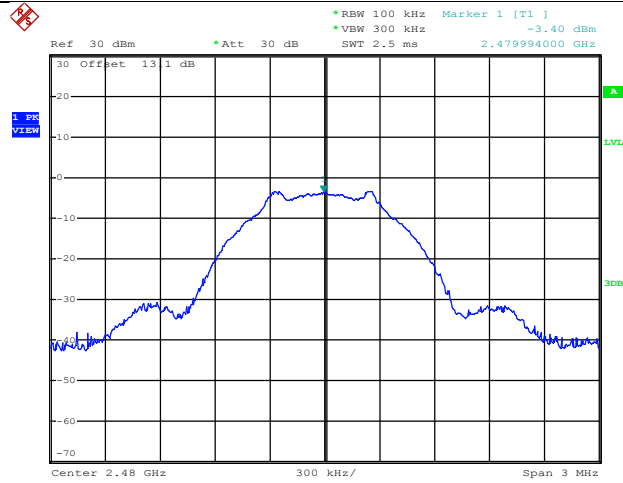
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BLE 1M Ant1 2440 1000~26500



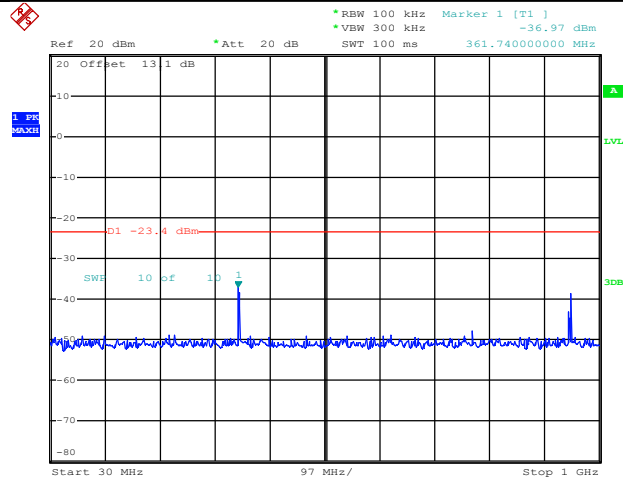
Date: 13.JUN.2022 11:21:48

BLE 1M Ant1 2480 0~Reference



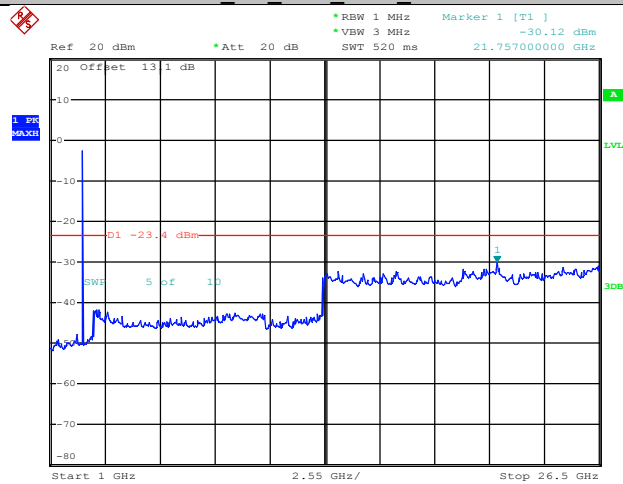
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BLE 1M Ant1 2480 30~1000



Date: 13.JUN.2022 11:30:08

BLE 1M Ant1 2480 1000~26500

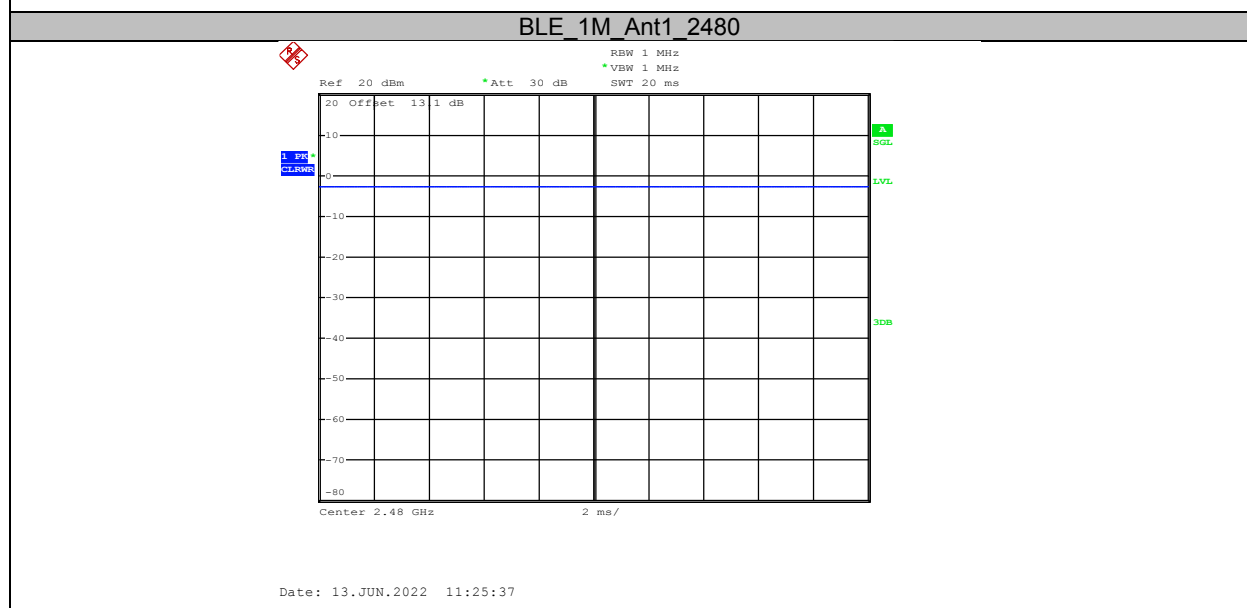
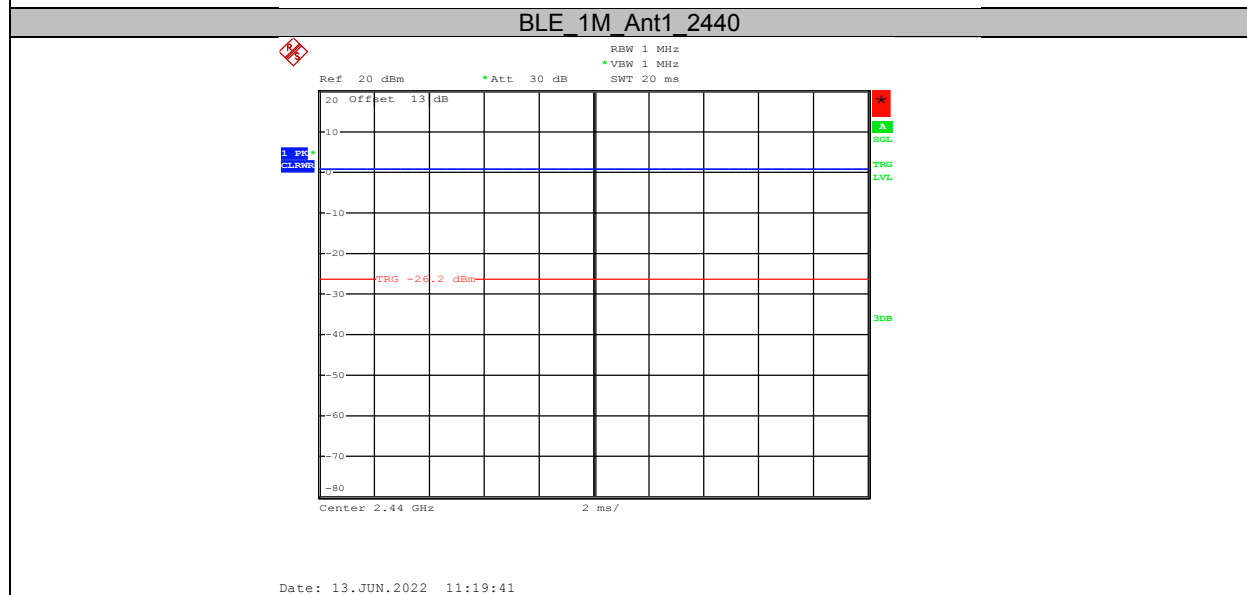
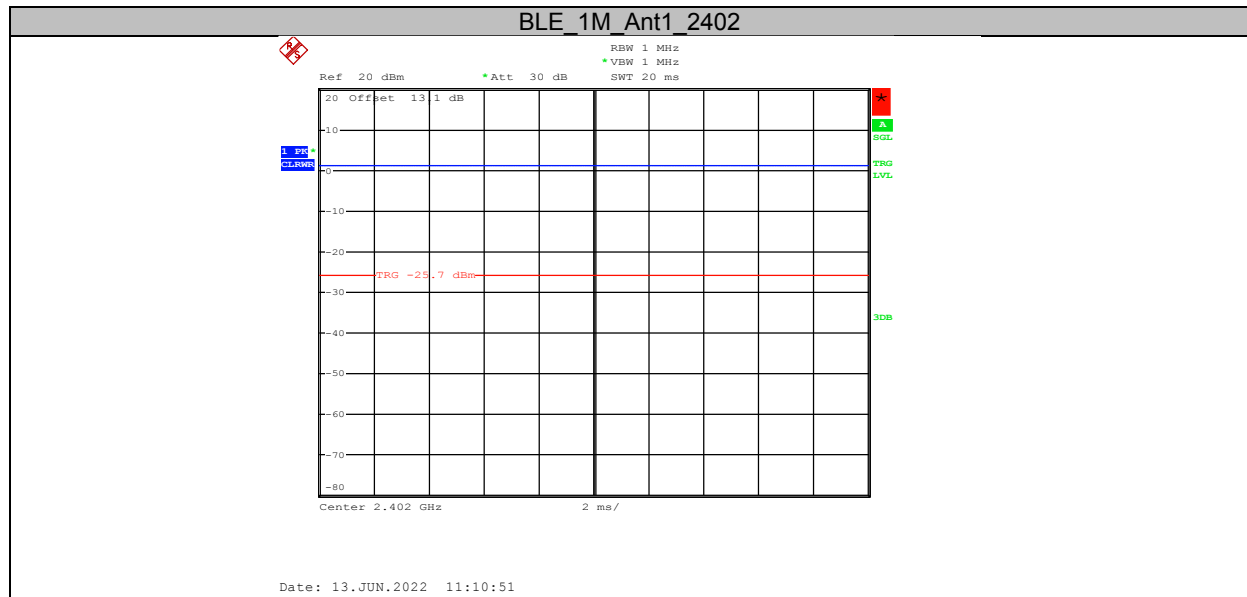


Date: 13.JUN.2022 11:30:19

Appendix G: Duty Cycle Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	20.00	20.00	100.00	---	PASS
		2440	20.00	20.00	100.00	---	PASS
		2480	20.00	20.00	100.00	---	PASS

Test Graphs



6. Radiated Emission Radiated Emission at 3 Meters

6. 7 Radiated Emission Test Result

Test Mode 1										
Restricted Frequency Bands Data_BT LE / 1Mbps GFSKCH Low										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV		PK	AV	PK	AV
2390.000	56.69	44.47	0.90	57.59	45.37	Horiz./	74.0	54.0	-16.41	-8.63
2390.000	56.20	43.42	0.90	57.10	44.32	Vert.	74.0	54.0	-16.90	-9.68
Restricted Frequency Bands Data_BT LE / 1Mbps GFSK CH High										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV		PK	AV	PK	AV
2483.500	58.99	45.77	0.90	59.89	46.67	Horiz./	74.0	54.0	-14.11	-7.33
2483.500	56.00	43.86	0.90	56.90	44.76	Vert.	74.0	54.0	-17.10	-9.24

Test Mode 1										
Harmonics Radiated Emission Data_BT LE / 1Mbps GFSK CH Low										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV		PK	AV	PK	AV
4804.200	37.59	29.27	10.10	47.69	39.37	Horiz./	74.0	54.0	-26.31	-14.63
4804.200	36.22	29.08	10.10	46.32	39.18	Vert.	74.0	54.0	-27.68	-14.82
7206.100	33.68	26.11	13.10	46.78	39.21	Horiz./	74.0	54.0	-27.22	-14.79
7206.100	32.99	26.08	13.10	46.09	39.18	Vert.	74.0	54.0	-27.91	-14.82
24020.00	-	-	-	-	-	-	-	-	-	-
24020.00	-	-	-	-	-	-	-	-	-	-
Harmonics Radiated Emission Data_BT LE / 1Mbps GFSK CH Mid										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV		PK	AV	PK	AV
4880.200	37.18	28.87	10.10	47.28	38.97	Horiz./	74.0	54.0	-26.72	-15.03
4880.200	35.17	28.13	10.10	45.27	38.23	Vert.	74.0	54.0	-28.73	-15.77
7320.300	33.35	25.32	13.10	46.45	38.42	Horiz./	74.0	54.0	-27.55	-15.58
7320.300	32.46	25.29	13.10	45.56	38.39	Vert.	74.0	54.0	-28.44	-15.61
24400.00	-	-	-	-	-	-	-	-	-	-
24400.00	-	-	-	-	-	-	-	-	-	-
Harmonics Radiated Emission Data_BT LE / 1Mbps GFSK CH High										
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV		PK	AV	PK	AV
4960.100	36.69	28.11	10.10	46.79	38.21	Horiz./	74.0	54.0	-27.21	-15.79
4960.100	35.07	27.91	10.10	45.17	38.01	Vert.	74.0	54.0	-28.83	-15.99
7440.200	33.15	24.98	13.10	46.25	38.08	Horiz./	74.0	54.0	-27.75	-15.92
7440.200	32.16	24.95	13.10	45.26	38.05	Vert.	74.0	54.0	-28.74	-15.95
24800.00	-	-	-	-	-	-	-	-	-	-
24800.00	-	-	-	-	-	-	-	-	-	-

Note:	(1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value. (2) Emission Level = Reading Level + Probe Factor + Cable Loss. (3) Span shall wide enough to fully capture the emission being measured; Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement. For average measurement: 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. (4) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied. (5) Where an emission level is indicated by a -, levels had a margin greater than 20 dB when compared to the limit.
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General Radiated Emission Data
For Frequency below 30MHz

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Emission (dBuV/m)	Horiz./ Vert.	Limit (dBuV/m)	Margin (dB)
N/A						
N/A						
N/A						
N/A						
N/A						
N/A						

Note:	(1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary. (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor. (3) Emission Level = Reading Level + Probe Factor + Cable Loss.
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For Frequency from 30MHz to 1GHz

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Emission (dBuV/m)	Horiz./ Vert.	Limit (dBuV/m)	Margin (dB)
N/A						
N/A						
N/A						
N/A						
N/A						
N/A						

Note:	(1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary. (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor. (3) Emission Level = Reading Level + Probe Factor + Cable Loss.
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-----End of Report -----