



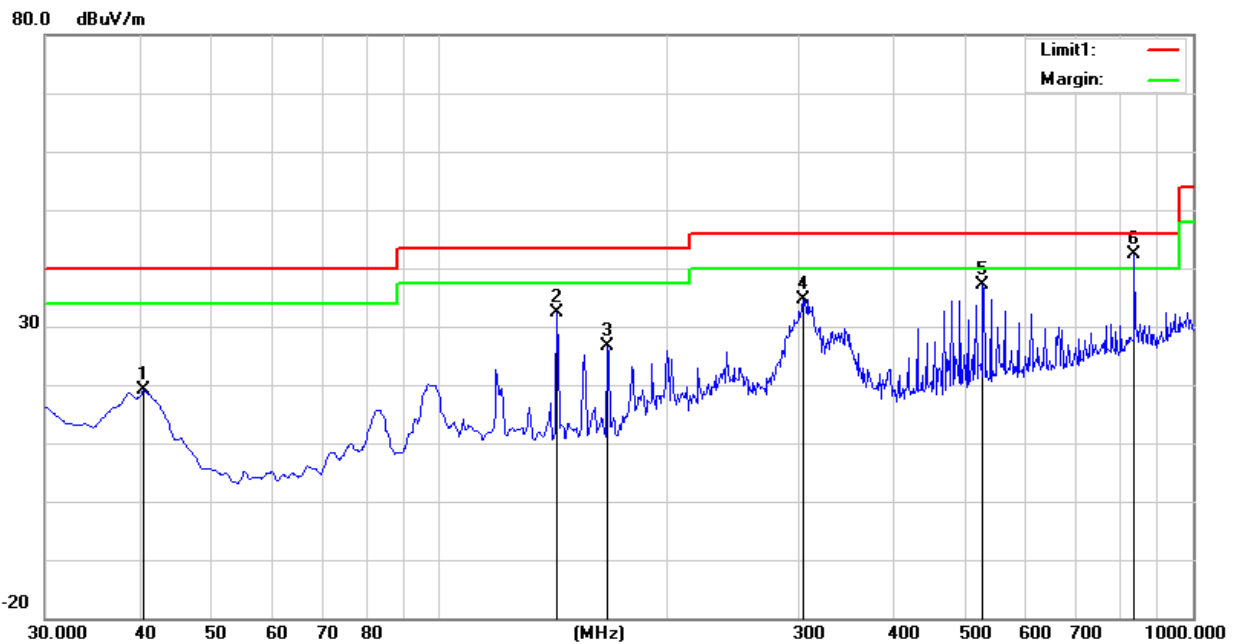
Right

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6 (Mode 1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	40.6700	37.42	-18.40	19.02	40.00	-20.98	peak
2	143.4900	50.61	-18.23	32.38	43.50	-11.12	peak
3	167.7400	46.10	-19.58	26.52	43.50	-16.98	peak
4	304.5100	49.32	-14.65	34.67	46.00	-11.33	peak
5	527.6100	44.61	-7.54	37.07	46.00	-8.93	peak
6	838.0100	42.72	-0.42	42.30	46.00	-3.70	peak

Remark:

4. Margin = Result (Result =Reading + Factor)-Limit
5. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
6. All modes have been tested,only show the worst case.





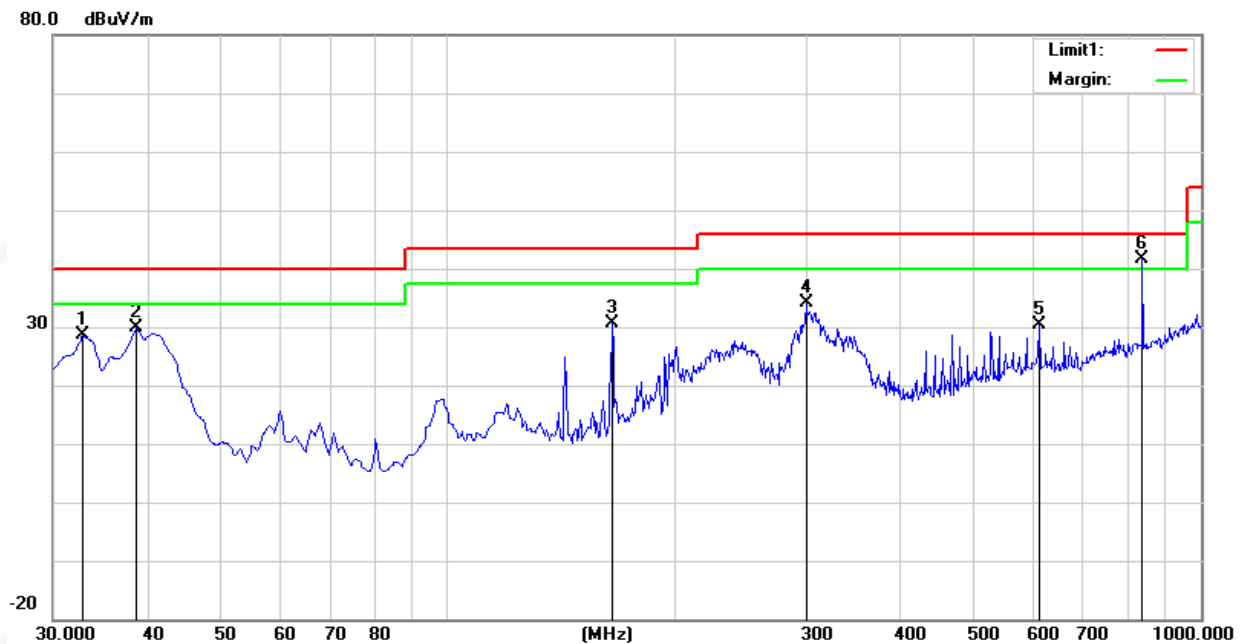
Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6 (Mode 1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	42.87	-14.33	28.54	40.00	-11.46	peak
2	38.7300	47.16	-17.36	29.80	40.00	-10.20	peak
3	165.8000	49.93	-19.40	30.53	43.50	-12.97	peak
4	299.6600	49.00	-14.82	34.18	46.00	-11.82	peak
5	612.0000	35.91	-5.50	30.41	46.00	-15.59	peak
6	838.0100	42.16	-0.42	41.74	46.00	-4.26	peak

Remark:

3. Margin = Result (Result = Reading + Factor) – Limit

4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





(1GHz~25GHz) Spurious emission Requirements

Left

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (GFSK/2402 MHz)										
3264.82	61.39	44.70	6.70	28.20	-9.80	51.59	74.00	-22.41	PK	Vertical
3264.82	49.93	44.70	6.70	28.20	-9.80	40.13	54.00	-13.87	AV	Vertical
3264.86	61.66	44.70	6.70	28.20	-9.80	51.86	74.00	-22.14	PK	Horizontal
3264.86	50.25	44.70	6.70	28.20	-9.80	40.45	54.00	-13.55	AV	Horizontal
4804.55	59.27	44.20	9.04	31.60	-3.56	55.71	74.00	-18.29	PK	Vertical
4804.55	49.17	44.20	9.04	31.60	-3.56	45.61	54.00	-8.39	AV	Vertical
4804.46	59.06	44.20	9.04	31.60	-3.56	55.50	74.00	-18.50	PK	Horizontal
4804.46	50.19	44.20	9.04	31.60	-3.56	46.63	54.00	-7.37	AV	Horizontal
5359.84	49.05	44.20	9.86	32.00	-2.34	46.70	74.00	-27.30	PK	Vertical
5359.84	39.38	44.20	9.86	32.00	-2.34	37.04	54.00	-16.96	AV	Vertical
5359.70	47.98	44.20	9.86	32.00	-2.34	45.63	74.00	-28.37	PK	Horizontal
5359.70	38.08	44.20	9.86	32.00	-2.34	35.74	54.00	-18.26	AV	Horizontal
7205.96	54.64	43.50	11.40	35.50	3.40	58.04	74.00	-15.96	PK	Vertical
7205.96	43.90	43.50	11.40	35.50	3.40	47.30	54.00	-6.70	AV	Vertical
7205.84	54.50	43.50	11.40	35.50	3.40	57.90	74.00	-16.10	PK	Horizontal
7205.84	44.05	43.50	11.40	35.50	3.40	47.45	54.00	-6.55	AV	Horizontal
Middle Channel (GFSK/2441 MHz)										
3264.77	62.01	44.70	6.70	28.20	-9.80	52.21	74.00	-21.79	PK	Vertical
3264.77	51.58	44.70	6.70	28.20	-9.80	41.78	54.00	-12.22	AV	Vertical
3264.63	61.56	44.70	6.70	28.20	-9.80	51.76	74.00	-22.24	PK	Horizontal
3264.63	50.99	44.70	6.70	28.20	-9.80	41.19	54.00	-12.81	AV	Horizontal
4882.37	59.01	44.20	9.04	31.60	-3.56	55.45	74.00	-18.55	PK	Vertical
4882.37	49.93	44.20	9.04	31.60	-3.56	46.37	54.00	-7.63	AV	Vertical
4882.35	58.98	44.20	9.04	31.60	-3.56	55.42	74.00	-18.58	PK	Horizontal
4882.35	50.30	44.20	9.04	31.60	-3.56	46.74	54.00	-7.26	AV	Horizontal
5359.60	49.19	44.20	9.86	32.00	-2.34	46.85	74.00	-27.15	PK	Vertical
5359.60	38.95	44.20	9.86	32.00	-2.34	36.60	54.00	-17.40	AV	Vertical
5359.74	48.13	44.20	9.86	32.00	-2.34	45.79	74.00	-28.21	PK	Horizontal
5359.74	38.26	44.20	9.86	32.00	-2.34	35.92	54.00	-18.08	AV	Horizontal
7323.72	54.67	43.50	11.40	35.50	3.40	58.07	74.00	-15.93	PK	Vertical
7323.72	44.28	43.50	11.40	35.50	3.40	47.68	54.00	-6.32	AV	Vertical
7323.84	54.80	43.50	11.40	35.50	3.40	58.20	74.00	-15.80	PK	Horizontal
7323.84	43.58	43.50	11.40	35.50	3.40	46.98	54.00	-7.02	AV	Horizontal



High Channel (GFSK/2480 MHz)										
3264.81	61.45	44.70	6.70	28.20	-9.80	51.65	74.00	-22.35	PK	Vertical
3264.81	50.49	44.70	6.70	28.20	-9.80	40.69	54.00	-13.31	AV	Vertical
3264.68	60.91	44.70	6.70	28.20	-9.80	51.11	74.00	-22.89	PK	Horizontal
3264.68	50.15	44.70	6.70	28.20	-9.80	40.35	54.00	-13.65	AV	Horizontal
4960.46	59.47	44.20	9.04	31.60	-3.56	55.91	74.00	-18.09	PK	Vertical
4960.46	50.56	44.20	9.04	31.60	-3.56	47.00	54.00	-7.00	AV	Vertical
4960.59	59.25	44.20	9.04	31.60	-3.56	55.69	74.00	-18.31	PK	Horizontal
4960.59	50.44	44.20	9.04	31.60	-3.56	46.88	54.00	-7.12	AV	Horizontal
5359.60	48.65	44.20	9.86	32.00	-2.34	46.30	74.00	-27.70	PK	Vertical
5359.60	39.65	44.20	9.86	32.00	-2.34	37.31	54.00	-16.69	AV	Vertical
5359.69	48.47	44.20	9.86	32.00	-2.34	46.13	74.00	-27.87	PK	Horizontal
5359.69	39.51	44.20	9.86	32.00	-2.34	37.17	54.00	-16.83	AV	Horizontal
7439.69	54.85	43.50	11.40	35.50	3.40	58.25	74.00	-15.75	PK	Vertical
7439.69	44.12	43.50	11.40	35.50	3.40	47.52	54.00	-6.48	AV	Vertical
7439.68	54.14	43.50	11.40	35.50	3.40	57.54	74.00	-16.46	PK	Horizontal
7439.68	43.85	43.50	11.40	35.50	3.40	47.25	54.00	-6.75	AV	Horizontal

Note:

- 1) All modes have been measurement, only worst mode was reported.
- 2) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
- 3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



Right

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (GFSK/2402 MHz)										
3264.89	61.89	44.70	6.70	28.20	-9.80	52.09	74.00	-21.91	PK	Vertical
3264.89	51.17	44.70	6.70	28.20	-9.80	41.37	54.00	-12.63	AV	Vertical
3264.80	61.32	44.70	6.70	28.20	-9.80	51.52	74.00	-22.48	PK	Horizontal
3264.80	50.21	44.70	6.70	28.20	-9.80	40.41	54.00	-13.59	AV	Horizontal
4804.41	59.42	44.20	9.04	31.60	-3.56	55.86	74.00	-18.14	PK	Vertical
4804.41	49.69	44.20	9.04	31.60	-3.56	46.13	54.00	-7.87	AV	Vertical
4804.55	58.77	44.20	9.04	31.60	-3.56	55.21	74.00	-18.79	PK	Horizontal
4804.55	49.78	44.20	9.04	31.60	-3.56	46.22	54.00	-7.78	AV	Horizontal
5359.86	49.19	44.20	9.86	32.00	-2.34	46.85	74.00	-27.15	PK	Vertical
5359.86	39.27	44.20	9.86	32.00	-2.34	36.93	54.00	-17.07	AV	Vertical
5359.85	48.24	44.20	9.86	32.00	-2.34	45.90	74.00	-28.10	PK	Horizontal
5359.85	38.73	44.20	9.86	32.00	-2.34	36.38	54.00	-17.62	AV	Horizontal
7205.78	54.84	43.50	11.40	35.50	3.40	58.24	74.00	-15.76	PK	Vertical
7205.78	44.16	43.50	11.40	35.50	3.40	47.56	54.00	-6.44	AV	Vertical
7205.83	53.70	43.50	11.40	35.50	3.40	57.10	74.00	-16.90	PK	Horizontal
7205.83	43.60	43.50	11.40	35.50	3.40	47.00	54.00	-7.00	AV	Horizontal
Middle Channel (GFSK/2441 MHz)										
3264.73	60.85	44.70	6.70	28.20	-9.80	51.05	74.00	-22.95	PK	Vertical
3264.73	50.99	44.70	6.70	28.20	-9.80	41.19	54.00	-12.81	AV	Vertical
3264.70	61.65	44.70	6.70	28.20	-9.80	51.85	74.00	-22.15	PK	Horizontal
3264.70	50.23	44.70	6.70	28.20	-9.80	40.43	54.00	-13.57	AV	Horizontal
4882.33	58.27	44.20	9.04	31.60	-3.56	54.71	74.00	-19.29	PK	Vertical
4882.33	50.43	44.20	9.04	31.60	-3.56	46.87	54.00	-7.13	AV	Vertical
4882.49	59.59	44.20	9.04	31.60	-3.56	56.03	74.00	-17.97	PK	Horizontal
4882.49	50.03	44.20	9.04	31.60	-3.56	46.47	54.00	-7.53	AV	Horizontal
5359.76	49.45	44.20	9.86	32.00	-2.34	47.11	74.00	-26.89	PK	Vertical
5359.76	39.73	44.20	9.86	32.00	-2.34	37.38	54.00	-16.62	AV	Vertical
5359.61	48.49	44.20	9.86	32.00	-2.34	46.15	74.00	-27.85	PK	Horizontal
5359.61	38.82	44.20	9.86	32.00	-2.34	36.47	54.00	-17.53	AV	Horizontal
7323.94	54.83	43.50	11.40	35.50	3.40	58.23	74.00	-15.77	PK	Vertical
7323.94	44.05	43.50	11.40	35.50	3.40	47.45	54.00	-6.55	AV	Vertical
7323.85	54.56	43.50	11.40	35.50	3.40	57.96	74.00	-16.04	PK	Horizontal
7323.85	44.54	43.50	11.40	35.50	3.40	47.94	54.00	-6.06	AV	Horizontal



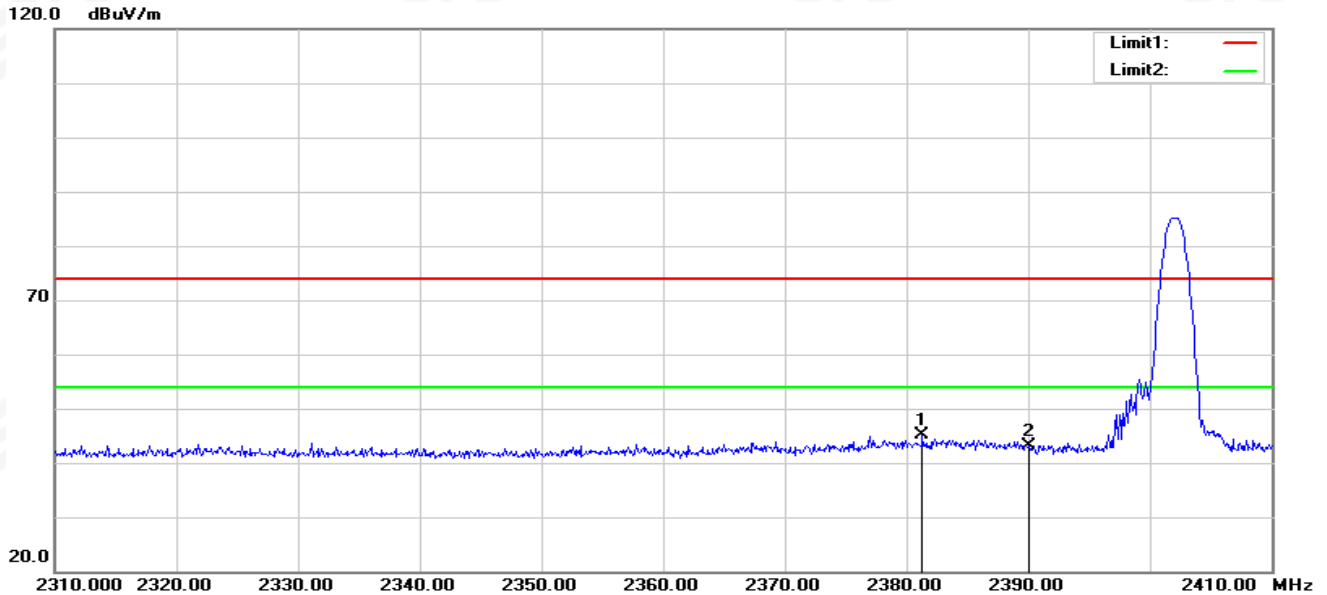
High Channel (GFSK/2480 MHz)										
3264.75	61.79	44.70	6.70	28.20	-9.80	51.99	74.00	-22.01	PK	Vertical
3264.75	49.89	44.70	6.70	28.20	-9.80	40.09	54.00	-13.91	AV	Vertical
3264.80	61.20	44.70	6.70	28.20	-9.80	51.40	74.00	-22.60	PK	Horizontal
3264.80	51.24	44.70	6.70	28.20	-9.80	41.44	54.00	-12.56	AV	Horizontal
4960.46	58.89	44.20	9.04	31.60	-3.56	55.33	74.00	-18.67	PK	Vertical
4960.46	49.73	44.20	9.04	31.60	-3.56	46.17	54.00	-7.83	AV	Vertical
4960.46	58.27	44.20	9.04	31.60	-3.56	54.71	74.00	-19.29	PK	Horizontal
4960.46	49.54	44.20	9.04	31.60	-3.56	45.98	54.00	-8.02	AV	Horizontal
5359.62	48.25	44.20	9.86	32.00	-2.34	45.90	74.00	-28.10	PK	Vertical
5359.62	39.67	44.20	9.86	32.00	-2.34	37.33	54.00	-16.67	AV	Vertical
5359.57	47.90	44.20	9.86	32.00	-2.34	45.56	74.00	-28.44	PK	Horizontal
5359.57	38.11	44.20	9.86	32.00	-2.34	35.77	54.00	-18.23	AV	Horizontal
7439.79	54.47	43.50	11.40	35.50	3.40	57.87	74.00	-16.13	PK	Vertical
7439.79	44.87	43.50	11.40	35.50	3.40	48.27	54.00	-5.73	AV	Vertical
7439.71	53.99	43.50	11.40	35.50	3.40	57.39	74.00	-16.61	PK	Horizontal
7439.71	43.84	43.50	11.40	35.50	3.40	47.24	54.00	-6.76	AV	Horizontal

Note:

- 1) All modes have been measurement, only worst mode was reported.
- 2) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
- 3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

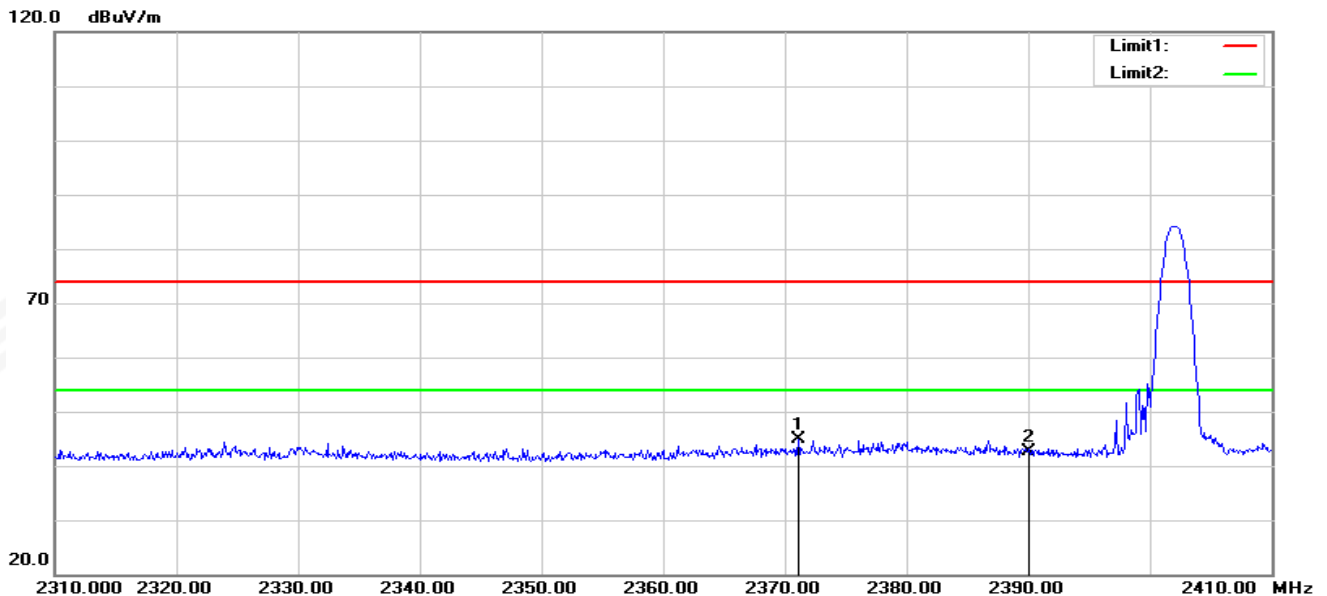


Restricted band Requirements

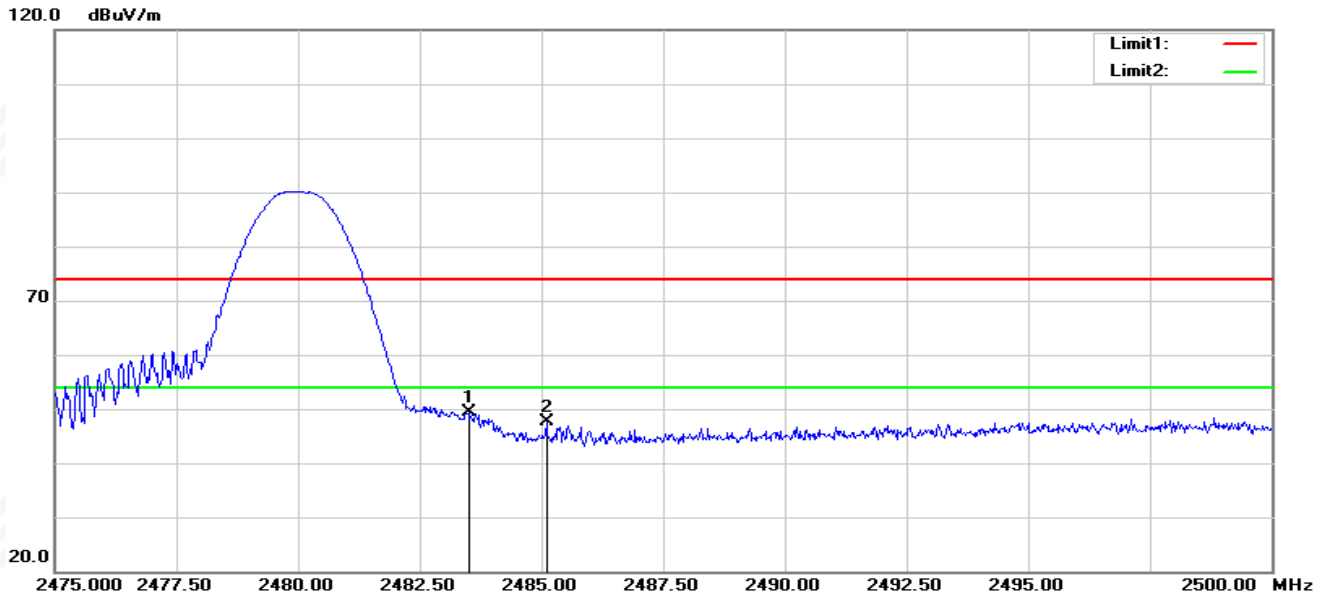
Left
GFSK-Low
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.300	40.83	4.21	45.04	74.00	-28.96	peak
2	2390.000	38.85	4.34	43.19	74.00	-30.81	peak

Vertical

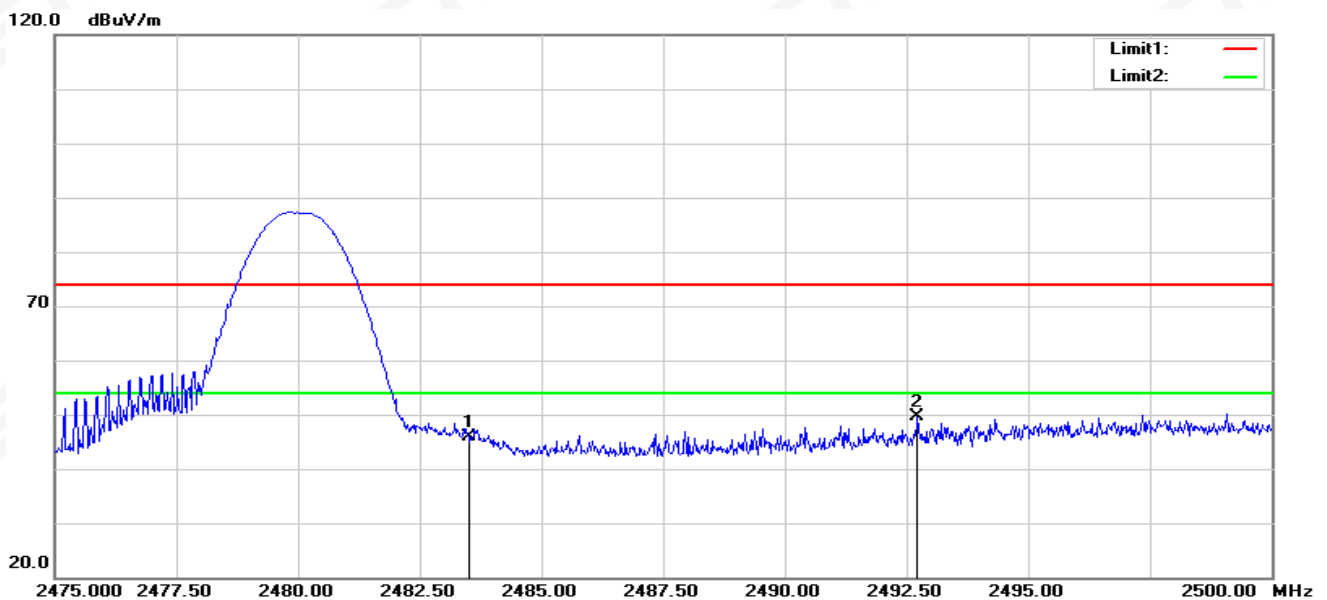


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2371.100	40.82	4.05	44.87	54.00	-9.13	peak
2	2390.000	38.31	4.34	42.65	54.00	-11.35	peak

**GFSK-High**
Horizontal

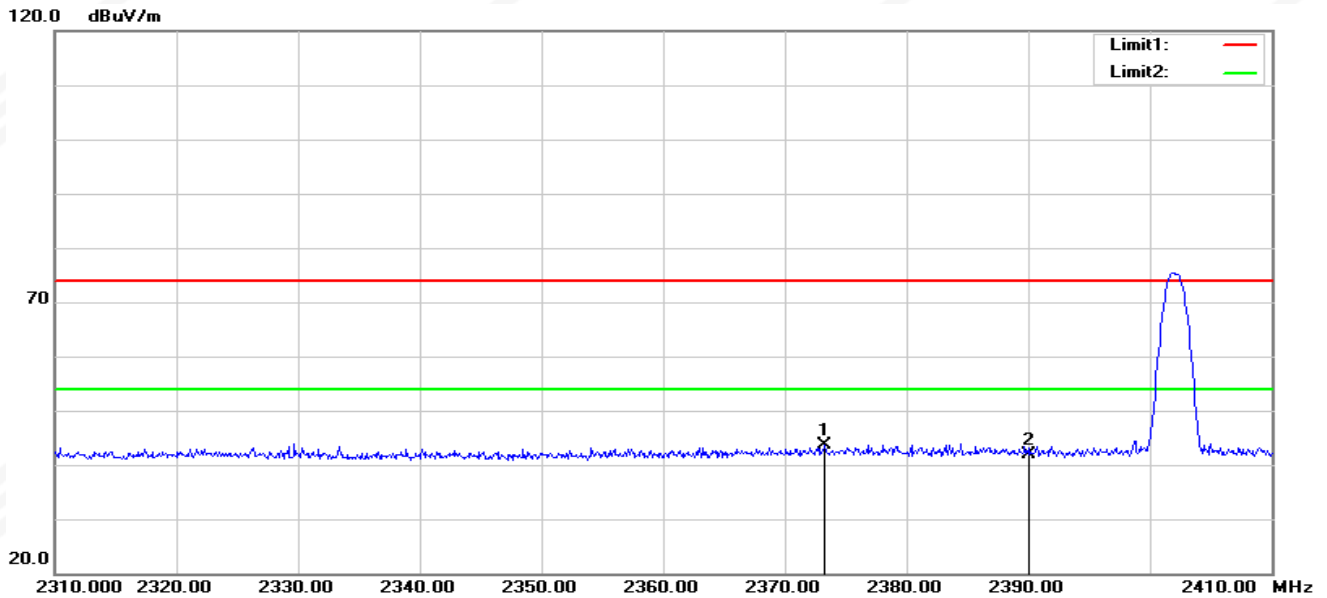
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	44.67	4.60	49.27	54.00	-4.73	peak
2	2485.100	42.95	4.61	47.56	54.00	-6.44	peak

Vertical



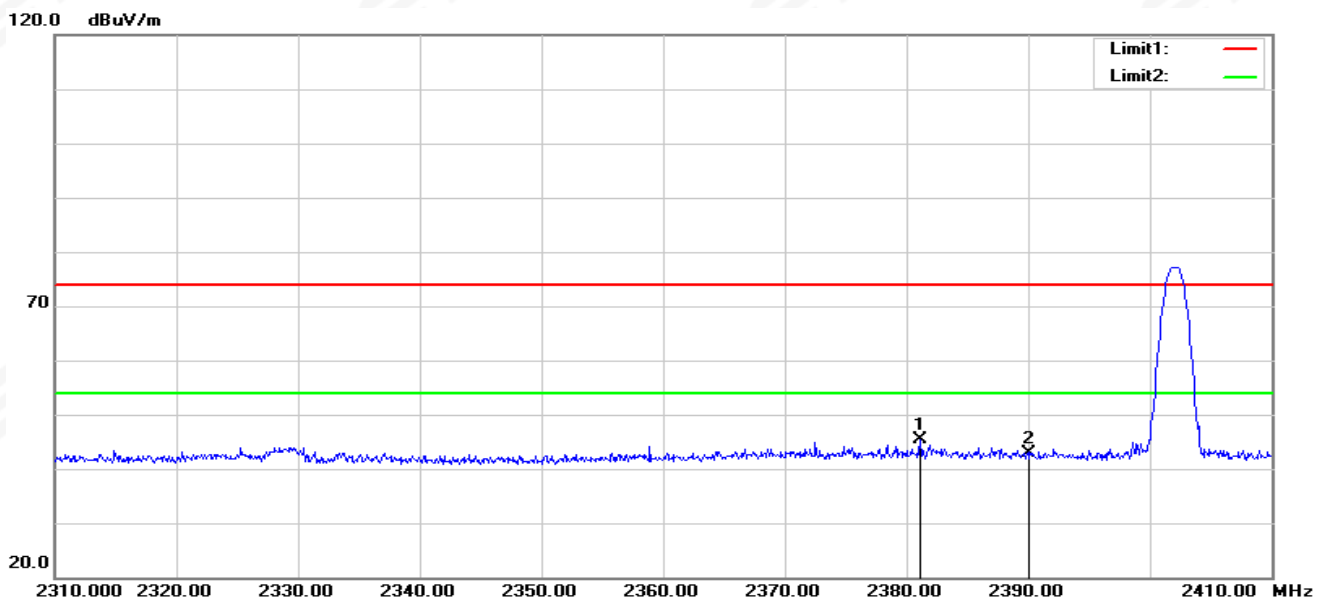
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	41.29	4.60	45.89	54.00	-8.11	peak
2	2492.725	44.96	4.64	49.60	54.00	-4.40	peak

Note: All modes have been measurement, only worst mode was reported.

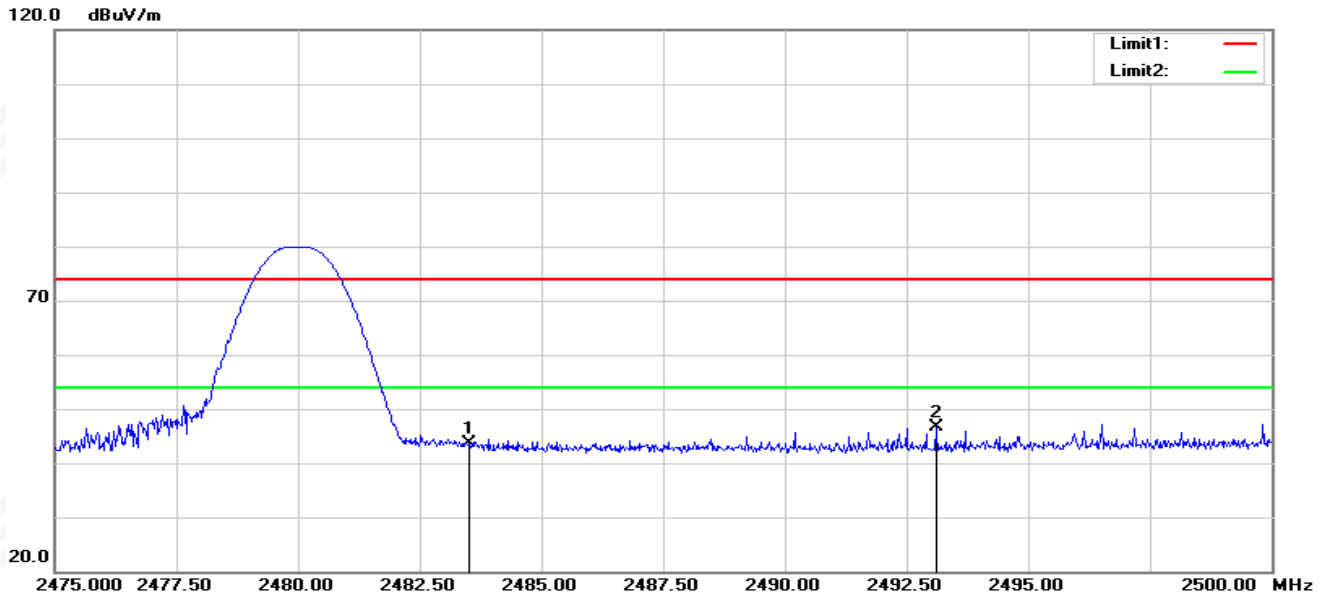
Right
GFSK-Low
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2373.300	39.57	4.09	43.66	54.00	-10.34	peak
2	2390.000	37.54	4.34	41.88	54.00	-12.12	peak

Vertical

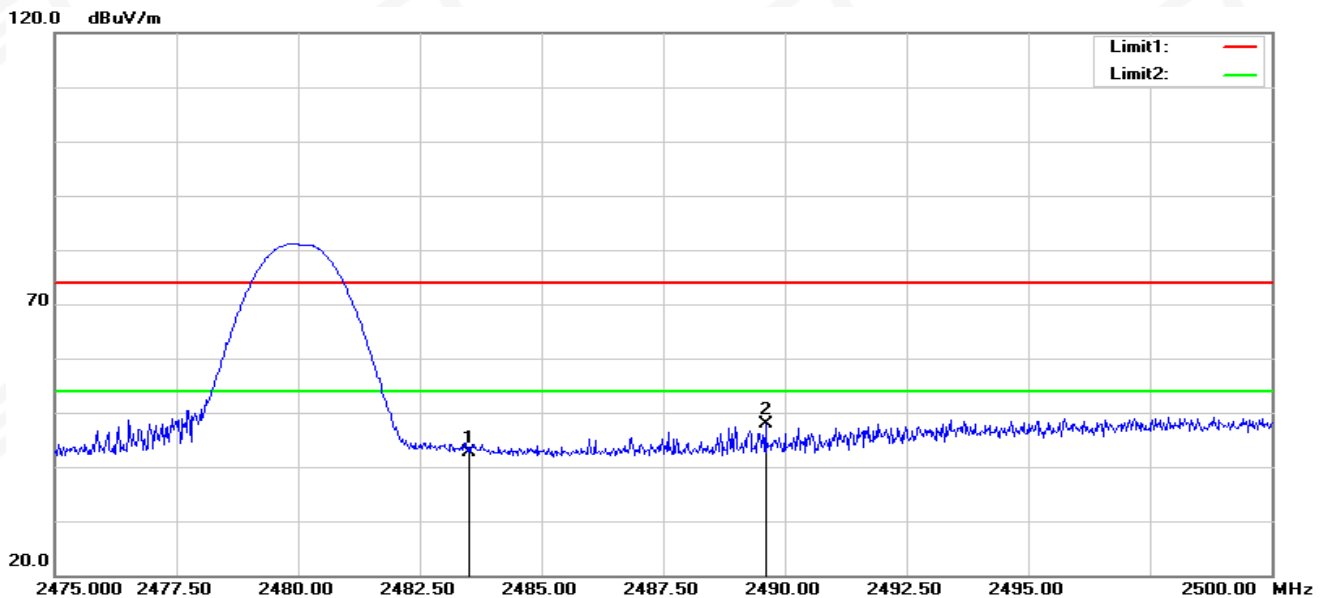


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.100	41.07	4.21	45.28	54.00	-8.72	peak
2	2390.000	38.66	4.34	43.00	54.00	-11.00	peak

**GFSK-High**
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	39.00	4.60	43.60	54.00	-10.40	peak
2	2493.100	41.87	4.64	46.51	54.00	-7.49	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.02	4.60	42.62	54.00	-11.38	peak
2	2489.600	43.32	4.62	47.94	54.00	-6.06	peak

Note: All modes have been measurement, only worst mode was reported.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Hopping Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300– 2403 MHz Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as shown in the block diagram below.
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set RBW =1MHz/VBW =3MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

The duration for dwell time calculation: $0.4[s] \times \text{hopping number} = 0.4[s] \times 79[\text{ch}] = 31.6[s \times \text{ch}]$;

Dwell Time Calculate formula:

Dwell time = pulse time (ms) x pulse number in 31.6s

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 300 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)	Bandwidth	N/A	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



9. OUTPUT POWER TEST

9.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)&(b)(1)	Output Power	1 W or 0.125W	2400-2483.5	PASS
		if channel separation > 2/3 bandwidth provided the systems operate with an output power no greater than 125 mW (20.97 dBm)		

9.2 TEST PROCEDURE

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW $\geq$ RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.



9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is Ceramic Antenna. It comply with the standard requirement.

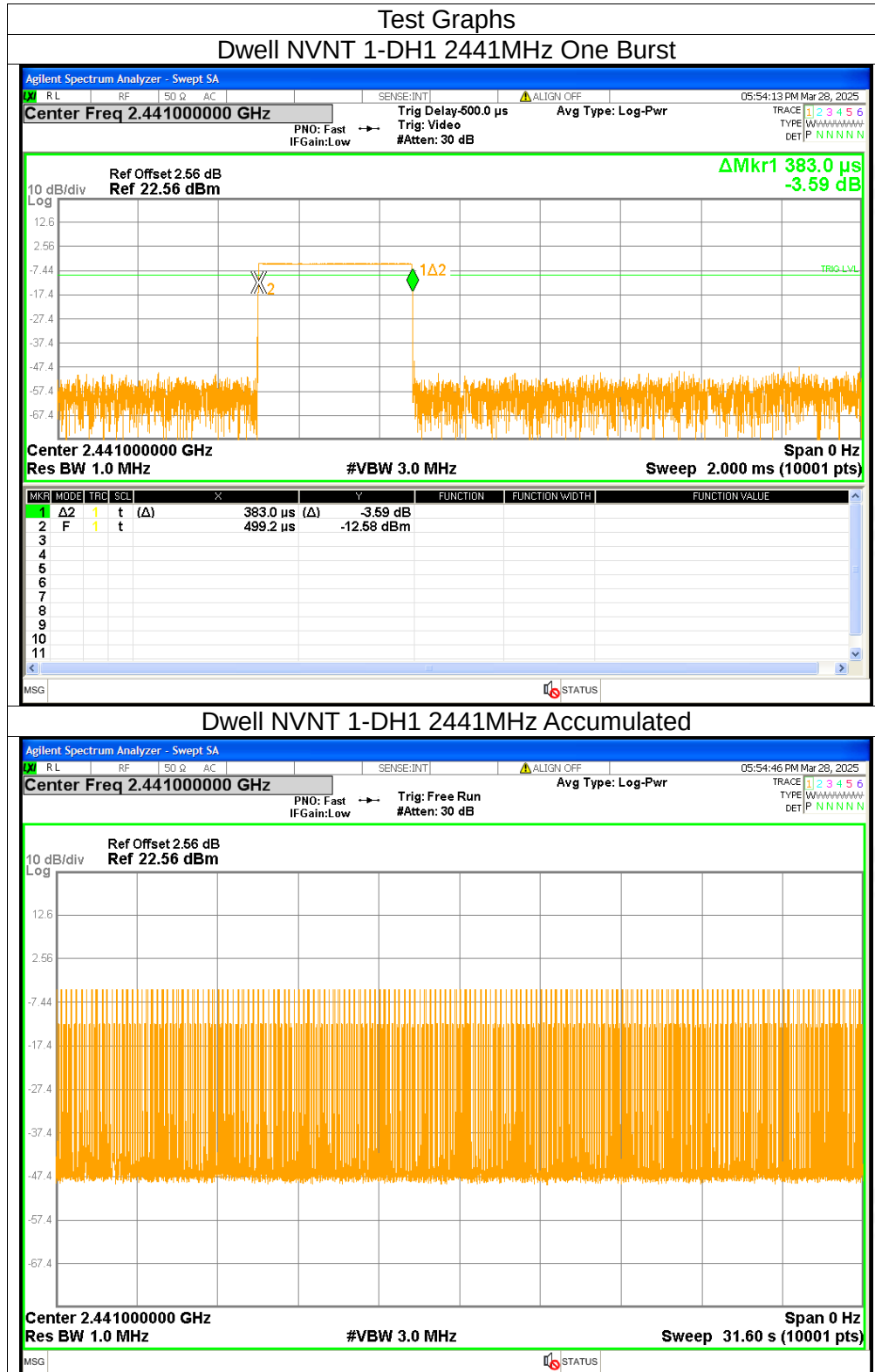


APPENDIX 1-TEST DATA

Left

1. Dwell Time

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.383	122.177	319	31600	<=400	Pass
NVNT	1-DH3	2441	1.639	263.879	161	31600	<=400	Pass
NVNT	1-DH5	2441	2.887	303.135	105	31600	<=400	Pass
NVNT	2-DH1	2441	0.392	124.656	318	31600	<=400	Pass
NVNT	2-DH3	2441	1.644	248.244	151	31600	<=400	Pass
NVNT	2-DH5	2441	2.892	361.5	125	31600	<=400	Pass

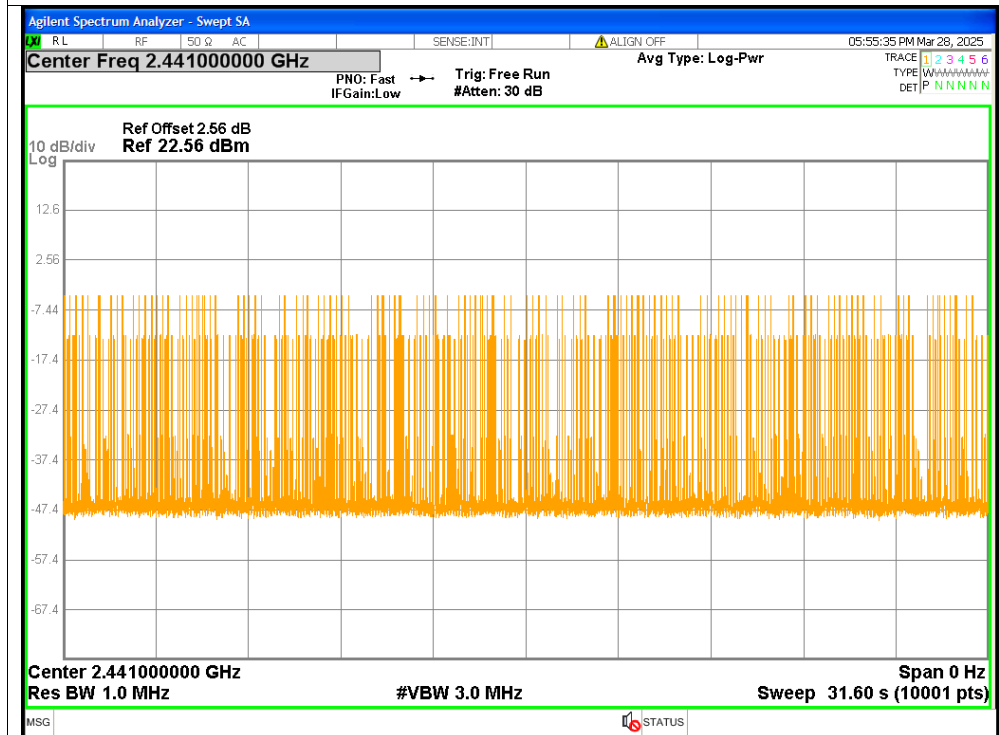




Dwell NVNT 1-DH3 2441MHz One Burst



Dwell NVNT 1-DH3 2441MHz Accumulated

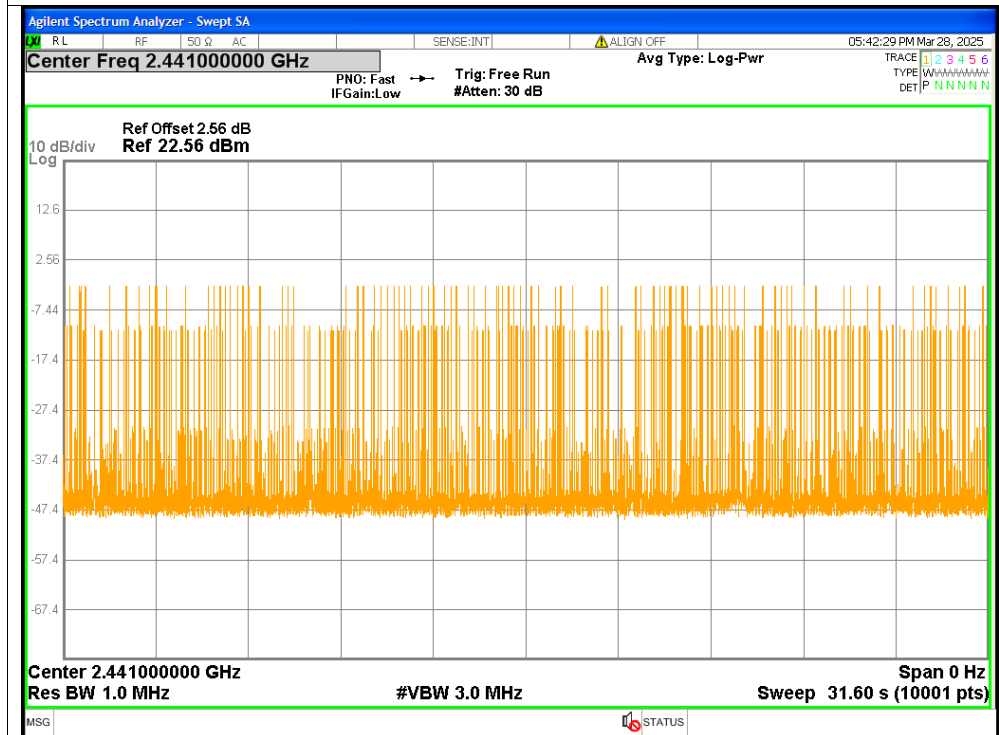




Dwell NVNT 1-DH5 2441MHz One Burst

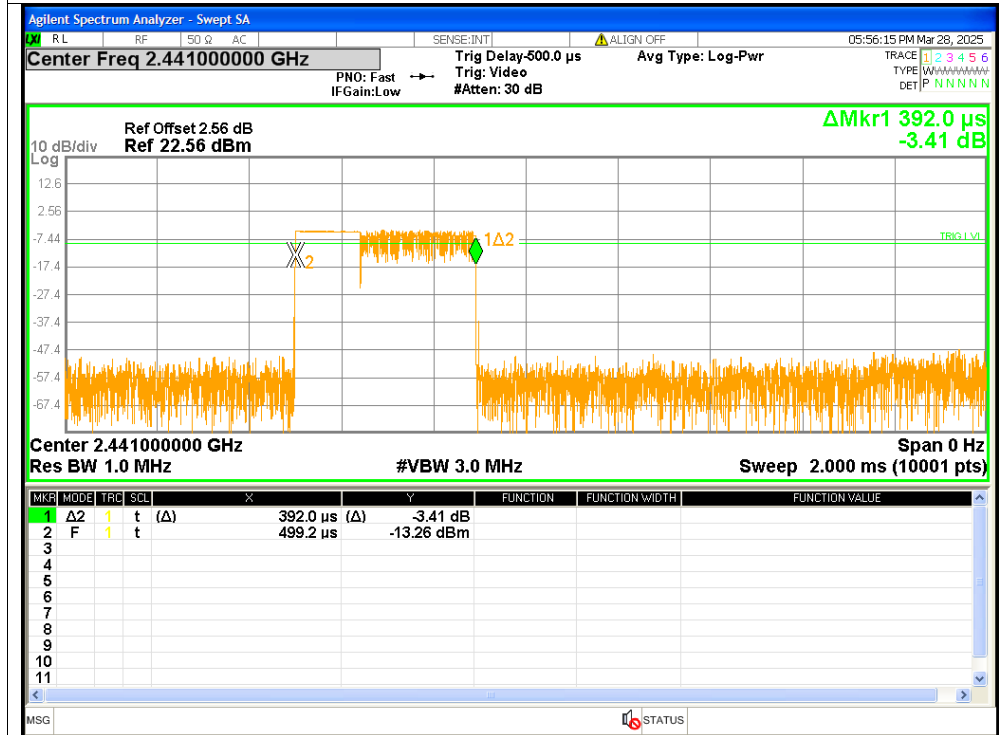


Dwell NVNT 1-DH5 2441MHz Accumulated

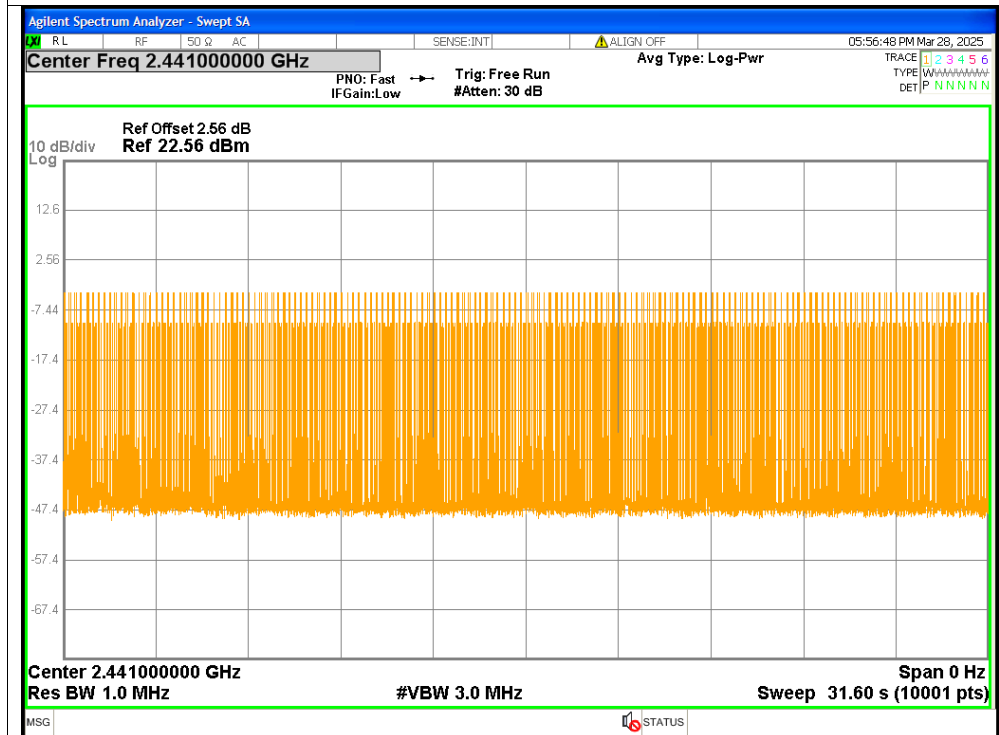




Dwell NVNT 2-DH1 2441MHz One Burst

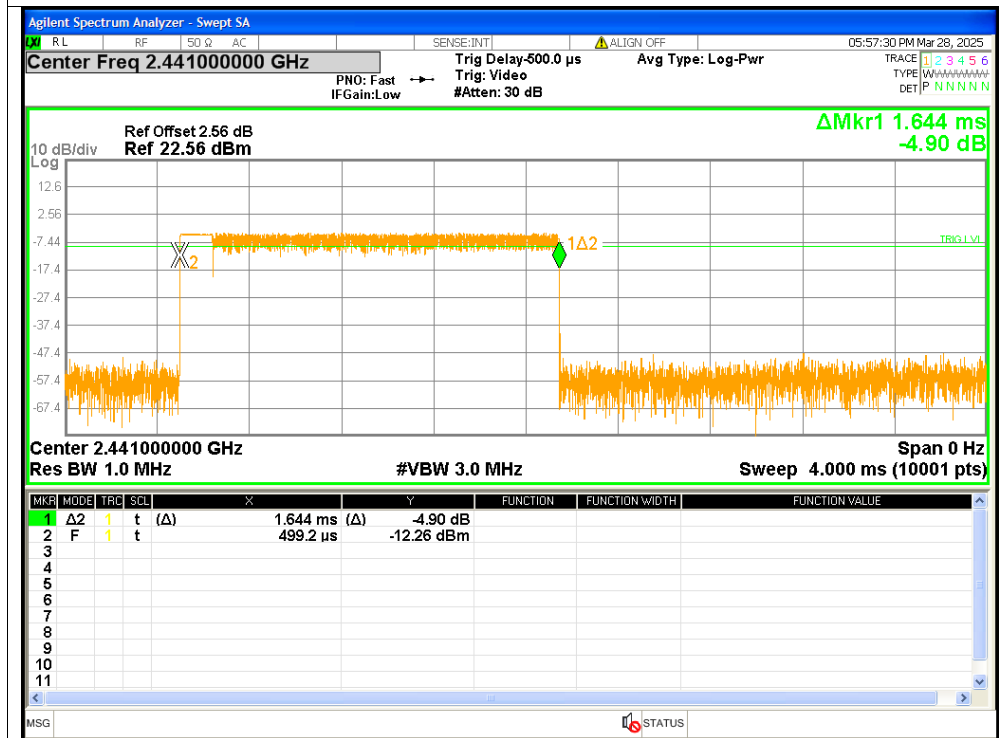


Dwell NVNT 2-DH1 2441MHz Accumulated





Dwell NVNT 2-DH3 2441MHz One Burst



Dwell NVNT 2-DH3 2441MHz Accumulated

