



# Appendix C

## Bluetooth BR+EDR Radiated Spurious Emissions



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, Inspection & Testing Services Laboratory

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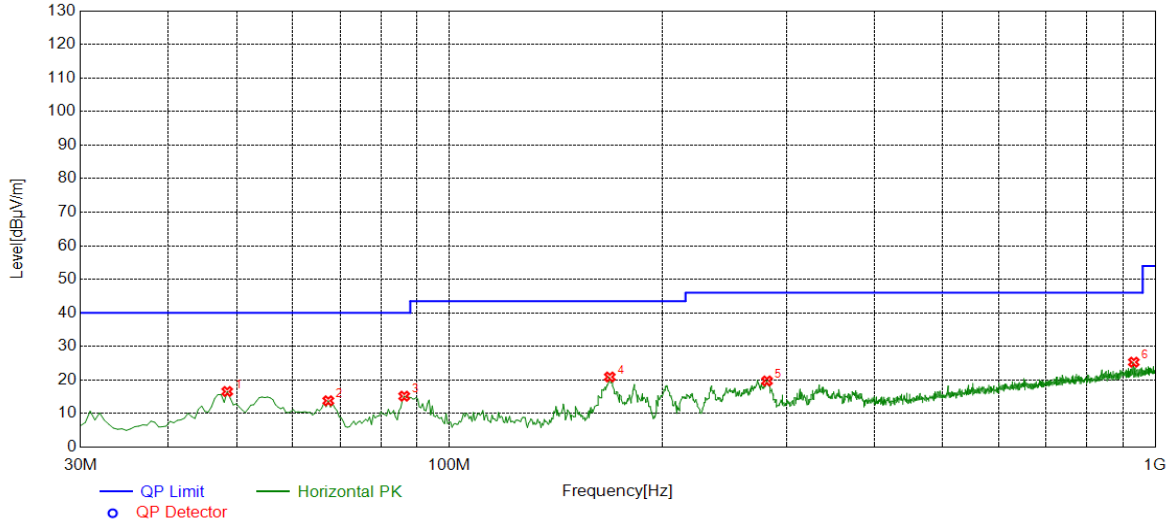
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## 1.1 Radiated Spurious Emission

### 1.1.1 Radiated Emission below 1GHz

#### 1.1.1.1 Charge + Transmitting

##### Test Graph



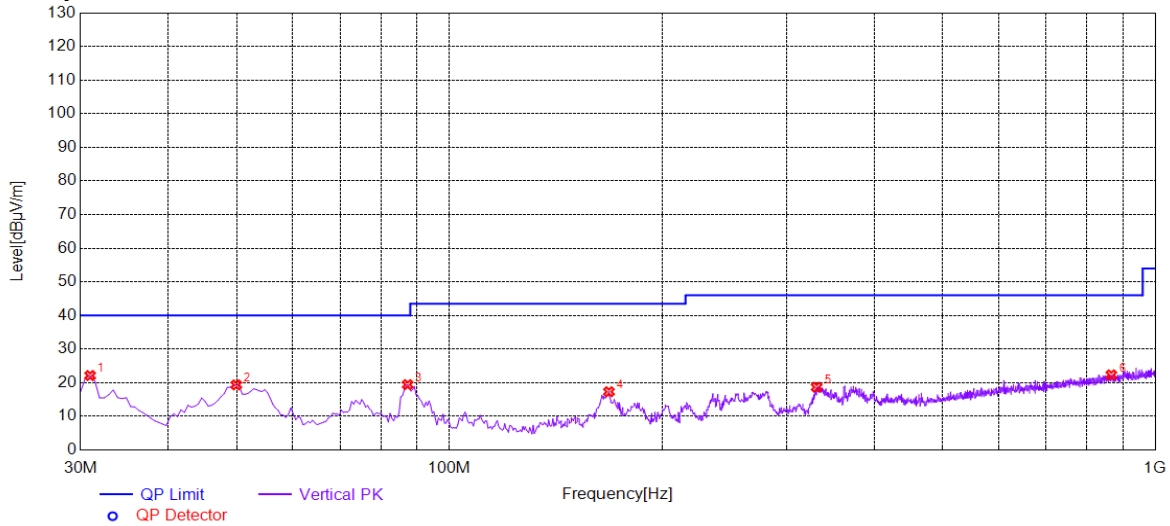
##### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4392	16.59	-30.19	40.00	23.41	201	201	Horizontal
2	67.3637	13.83	-33.51	40.00	26.17	108	220	Horizontal
3	86.2881	15.20	-34.32	40.00	24.80	240	44	Horizontal
4	168.779	20.92	-33.69	43.50	22.58	109	327	Horizontal
5	281.840	19.73	-28.34	46.00	26.27	162	16	Horizontal
6	932.551	25.33	-14.74	46.00	20.67	159	251	Horizontal

##### Final Data List



**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.9705	22.15	-32.82	40.00	17.85	164	118	Vertical
2	49.8949	19.37	-30.18	40.00	20.63	216	344	Vertical
3	87.2586	19.45	-34.09	40.00	20.55	299	58	Vertical
4	168.294	17.33	-33.73	43.50	26.17	281	329	Vertical
5	331.335	18.70	-26.95	46.00	27.30	266	310	Vertical
6	866.558	22.36	-15.77	46.00	23.64	298	184	Vertical

**Final Data List**



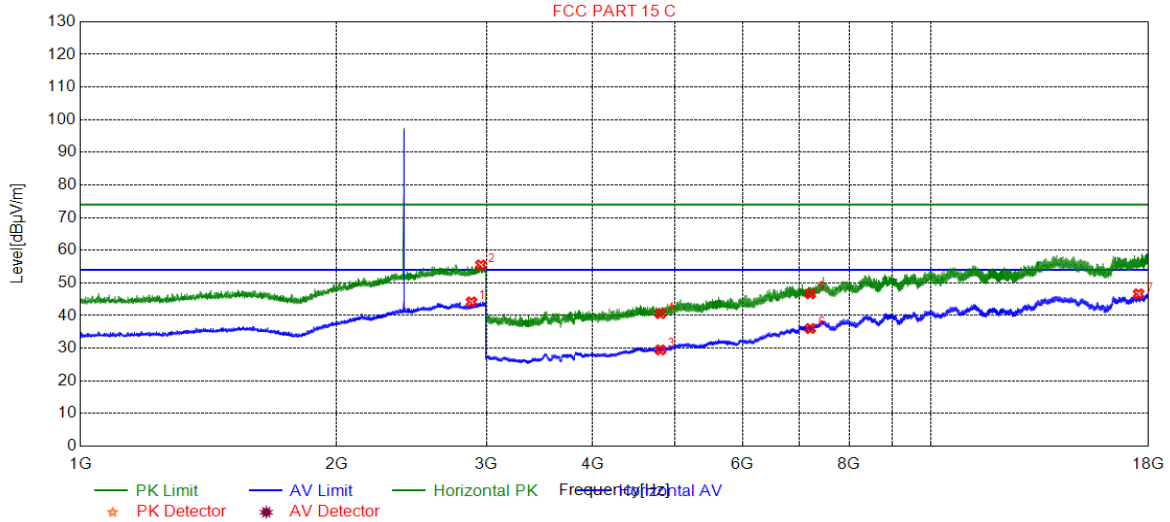
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### 1.1.2 Transmitter Emission above 1GHz

#### 1.1.2.1 GFSK\_Channel 0

##### Test Graph



##### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2880.9702	44.19	9.18	54.00	9.81	172	347	Horizontal
2	2955.4889	55.53	9.65	74.00	18.47	179	18	Horizontal
3	4804.0000	29.50	-18.30	54.00	24.50	209	237	Horizontal
4	4804.0000	40.60	-18.30	74.00	33.40	108	182	Horizontal
5	7206.0000	46.68	-10.09	74.00	27.32	199	191	Horizontal
6	7206.0000	36.05	-10.09	54.00	17.95	132	342	Horizontal
7	17517.075	46.65	0.99	54.00	7.35	158	342	Horizontal

##### Final Data List



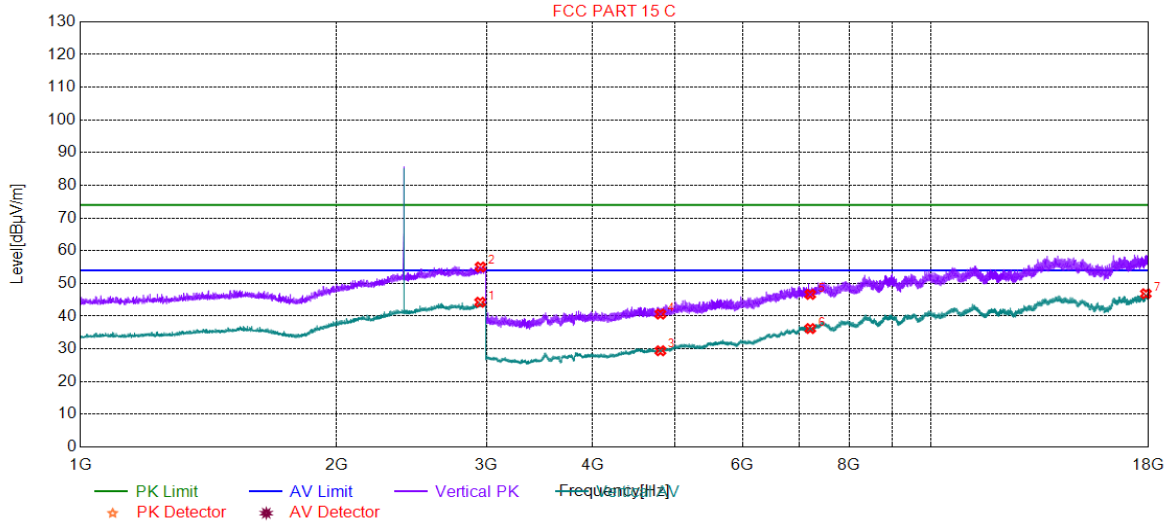
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**1.1.2.2 GFSK\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2949.4874	44.27	9.67	54.00	9.73	153	150	Vertical
2	2952.4881	55.04	9.67	74.00	18.96	260	94	Vertical
3	4804.0000	29.43	-18.30	54.00	24.57	255	319	Vertical
4	4804.0000	40.65	-18.30	74.00	33.35	239	264	Vertical
5	7206.0000	46.66	-10.09	74.00	27.34	198	140	Vertical
6	7206.0000	36.22	-10.09	54.00	17.78	151	241	Vertical
7	17866.8933	46.88	0.25	54.00	7.12	183	90	Vertical

**Final Data List**

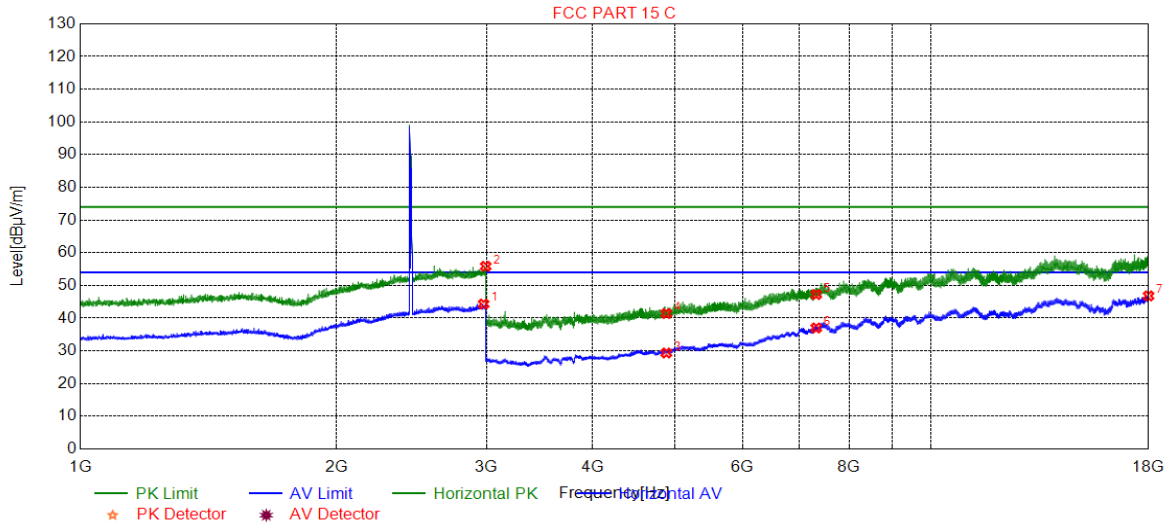


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**1.1.2.3 GFSK\_Channel 39**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2977.4944	44.34	9.55	54.00	9.66	147	44	Horizontal
2	2994.4986	55.86	9.48	74.00	18.14	180	308	Horizontal
3	4882.0000	29.36	-17.96	54.00	24.64	218	100	Horizontal
4	4882.0000	41.44	-17.96	74.00	32.56	141	155	Horizontal
5	7323.0000	47.24	-9.71	74.00	26.76	131	241	Horizontal
6	7323.0000	37.02	-9.71	54.00	16.98	110	141	Horizontal
7	17995.0498	46.82	0.72	54.00	7.18	184	41	Horizontal

**Final Data List**

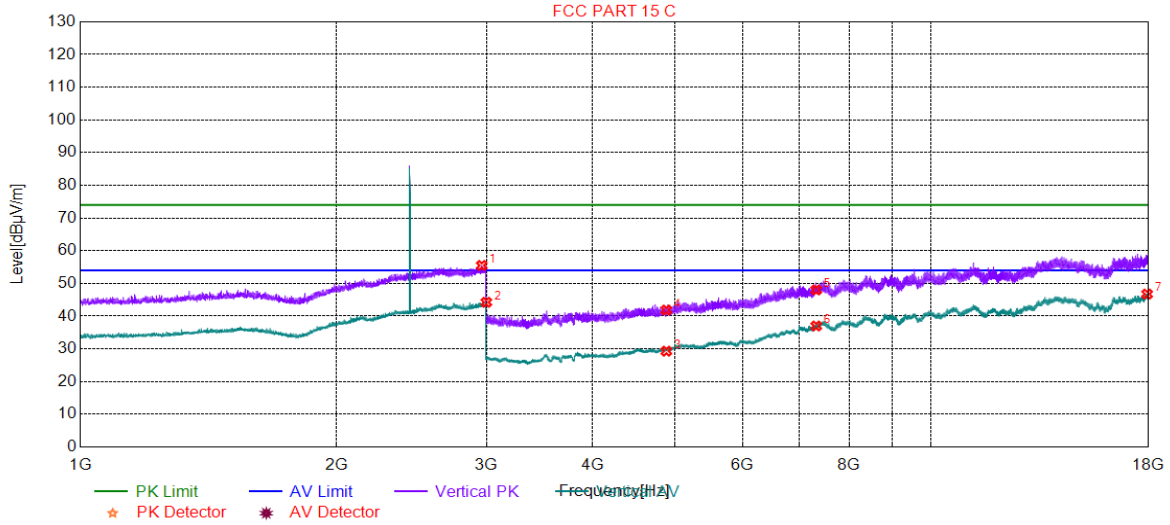


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**1.1.2.4 GFSK\_Channel 39**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.4906	55.52	9.62	74.00	18.48	290	191	Vertical
2	2999.4999	44.26	9.45	54.00	9.74	241	67	Vertical
3	4882.0000	29.31	-17.96	54.00	24.69	158	155	Vertical
4	4882.0000	41.88	-17.96	74.00	32.12	181	128	Vertical
5	7323.0000	48.03	-9.71	74.00	25.97	184	142	Vertical
6	7323.0000	37.01	-9.71	54.00	16.99	199	142	Vertical
7	17926.2963	46.78	0.70	54.00	7.22	282	292	Vertical

**Final Data List**

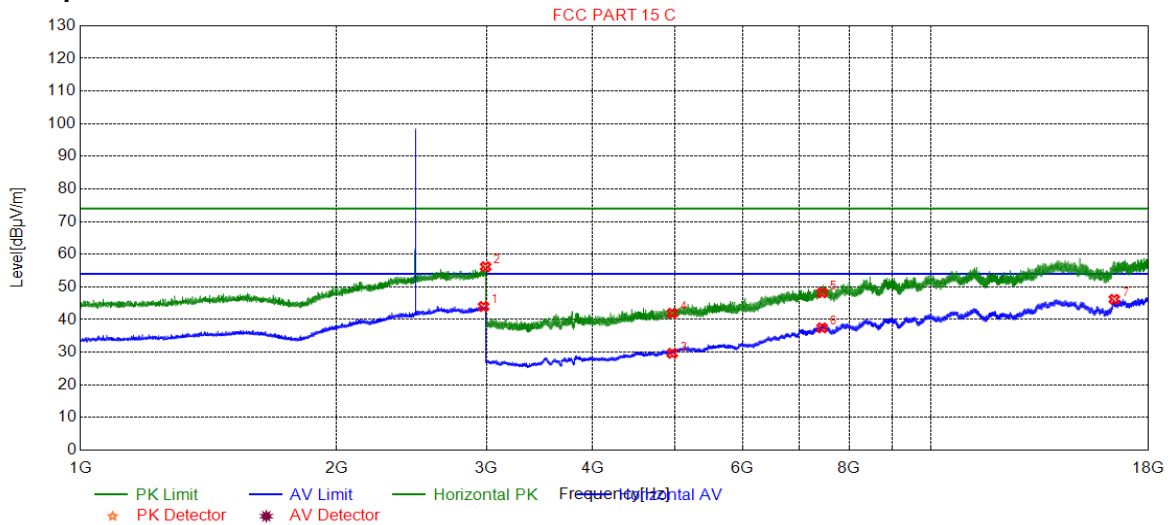


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**1.1.2.5 GFSK\_Channel 78**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2976.9942	44.00	9.56	54.00	10.00	144	85	Horizontal
2	2993.9985	56.19	9.48	74.00	17.81	220	18	Horizontal
3	4960.0000	29.67	-17.47	54.00	24.33	138	265	Horizontal
4	4960.0000	41.94	-17.47	74.00	32.06	176	210	Horizontal
5	7440.0000	48.20	-9.35	74.00	25.80	159	292	Horizontal
6	7440.0000	37.47	-9.35	54.00	16.53	248	142	Horizontal
7	16402.7201	46.21	-0.11	54.00	7.79	216	0	Horizontal

**Final Data List**

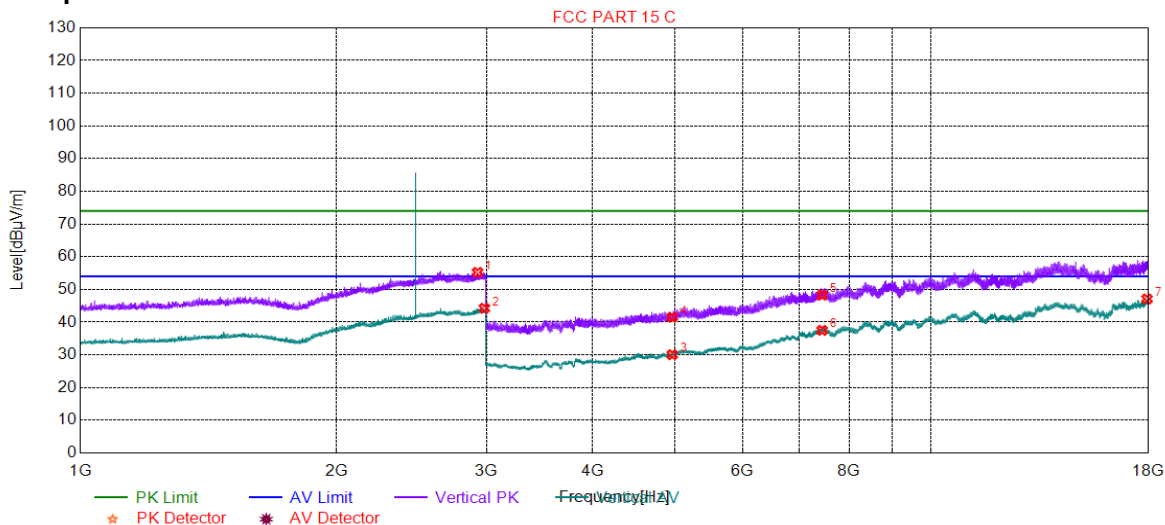


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**1.1.2.6 GFSK\_Channel 78**

**Test Graph**



**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2928.9822	55.24	9.45	74.00	18.76	229	206	Vertical
2	2983.4959	44.27	9.53	54.00	9.73	166	28	Vertical
3	4960.0000	30.06	-17.47	54.00	23.94	248	46	Vertical
4	4960.0000	41.53	-17.47	74.00	32.47	190	73	Vertical
5	7440.0000	48.30	-9.35	74.00	25.70	237	191	Vertical
6	7440.0000	37.51	-9.35	54.00	16.49	233	291	Vertical
7	17921.3461	47.11	0.70	54.00	6.89	242	342	Vertical

**Final Data List**

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) All Modes have been tested, but only the worst case data displayed in this report.



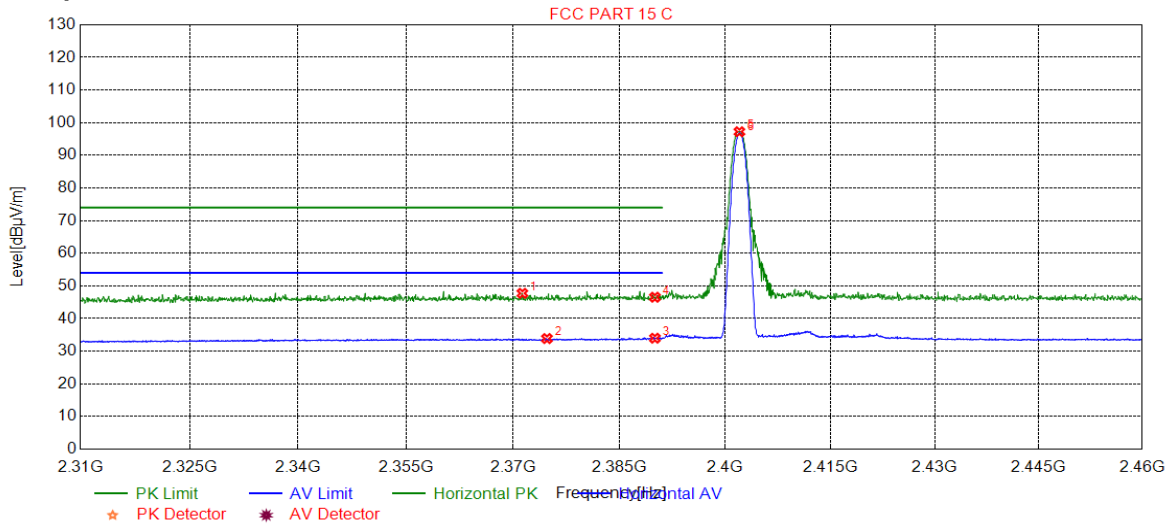
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## 1.2 Restricted bands around fundamental frequency

### 1.2.1 Test plots

#### 1.2.1.1 Worst Case Mode (GFSK(DH5)) \_Lowest Channel

#### Test Graph



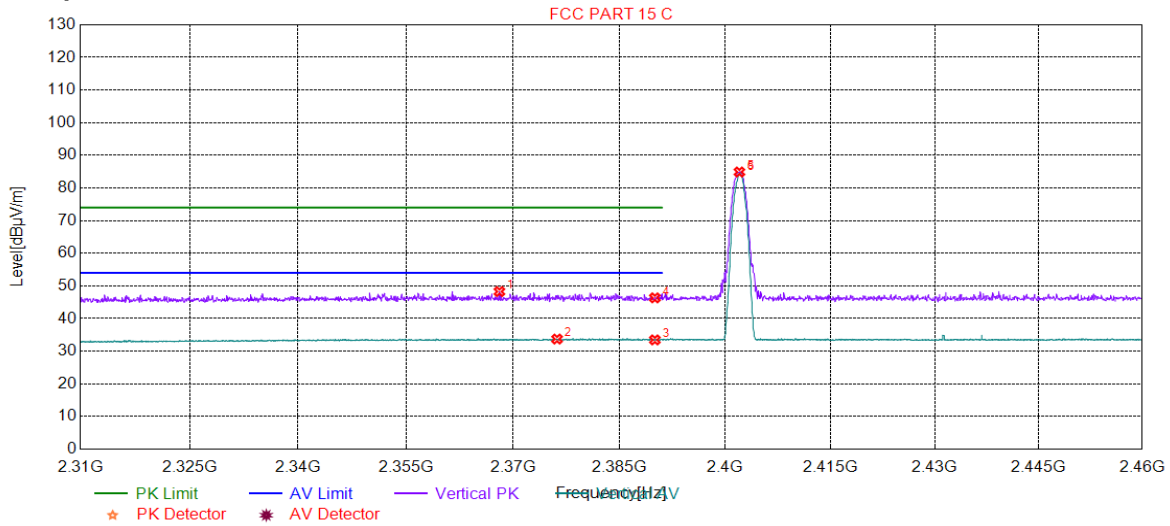
#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.3057	47.75	7.79	74.00	26.25	168	179	Horizontal
2	2374.7574	33.89	7.79	54.00	20.11	215	267	Horizontal
3	2390.0000	34.00	7.77	54.00	20.00	122	234	Horizontal
4	2390.0000	46.55	7.77	74.00	27.45	150	212	Horizontal
5	2402.0000	97.24	7.77	0.00	-97.24	133	234	Horizontal
6	2402.0000	96.92	7.77	0.00	-96.92	164	234	Horizontal

#### Final Data List



**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.0790	48.28	7.79	74.00	25.72	212	215	Vertical
2	2376.1831	33.74	7.78	54.00	20.26	291	105	Vertical
3	2390.0000	33.48	7.77	54.00	20.52	166	231	Vertical
4	2390.0000	46.35	7.77	74.00	27.65	254	72	Vertical
5	2402.0000	84.91	7.77	0.00	-84.91	256	330	Vertical
6	2402.0000	84.54	7.77	0.00	-84.54	152	330	Vertical

**Final Data List**

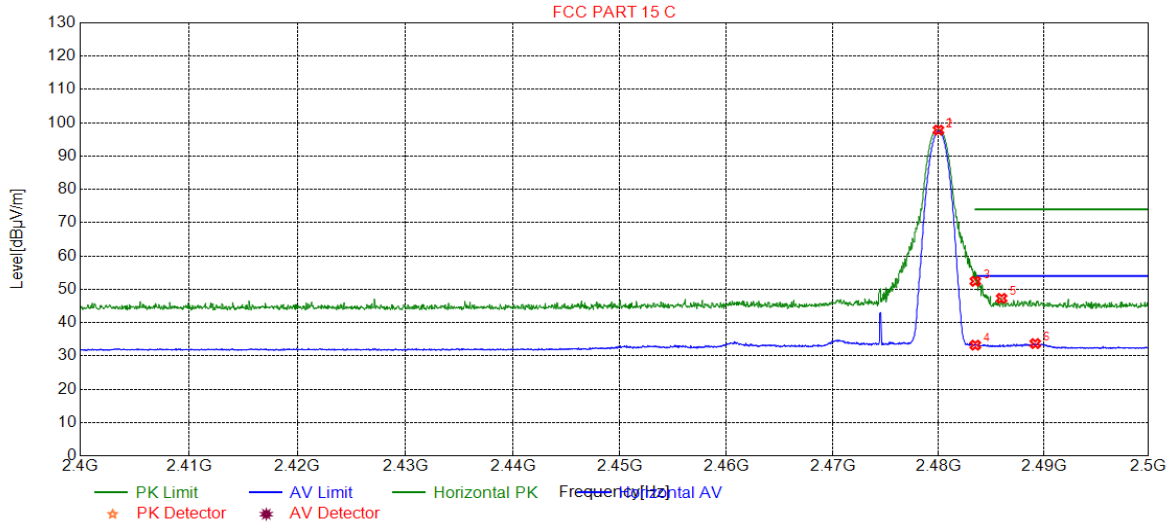


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**1.2.1.2 Worst Case Mode (GFSK(DH5)) \_Highest Channel**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	97.80	8.01	0.00	-97.80	155	217	Horizontal
2	2480.0000	97.56	8.01	0.00	-97.56	120	211	Horizontal
3	2483.5000	52.43	8.01	74.00	21.57	186	250	Horizontal
4	2483.5000	33.26	8.01	54.00	20.74	247	228	Horizontal
5	2485.9930	47.31	8.01	74.00	26.69	170	211	Horizontal
6	2489.1946	33.73	8.02	54.00	20.27	156	234	Horizontal

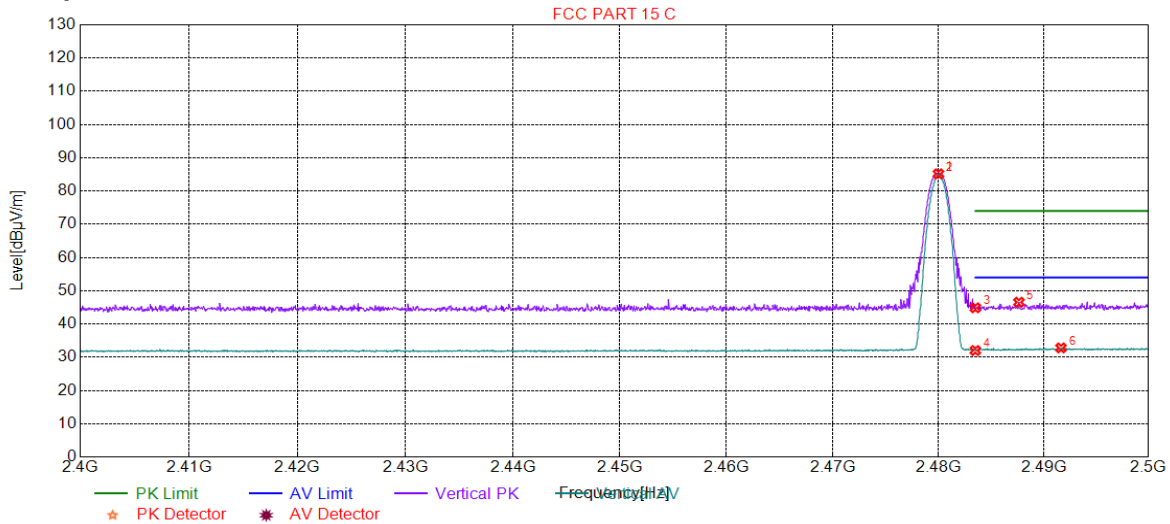
**Final Data List**



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**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	85.18	8.01	0.00	-85.18	298	346	Vertical
2	2480.0000	84.92	8.01	0.00	-84.92	276	346	Vertical
3	2483.5000	44.90	8.01	74.00	29.10	254	298	Vertical
4	2483.5000	32.06	8.01	54.00	21.94	239	276	Vertical
5	2487.6438	46.57	8.02	74.00	27.43	156	143	Vertical
6	2491.6458	32.84	8.02	54.00	21.16	193	76	Vertical

**Final Data List**

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

All Modes have been tested, but only the worst case data displayed in this report.



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