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DH5 Ant9 2402 1000~26500



DH5 Ant9 2441 0~Reference



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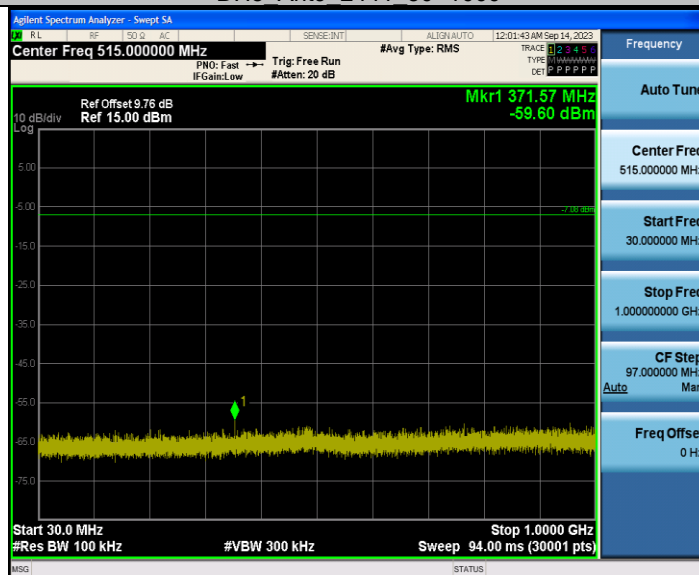
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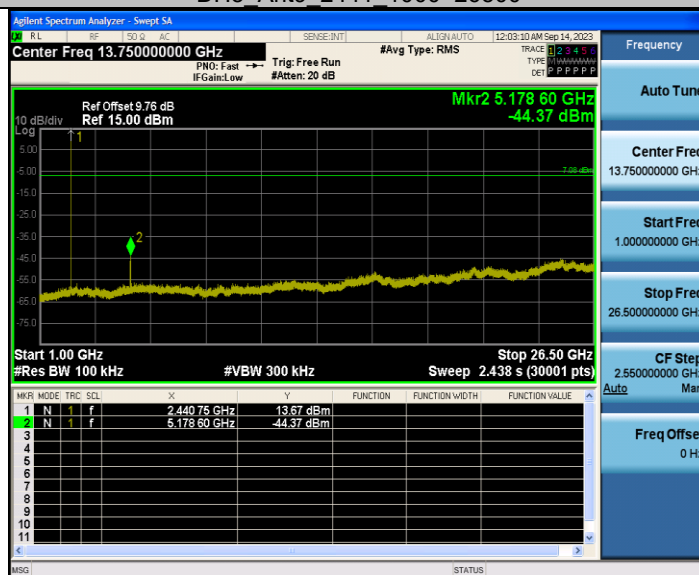
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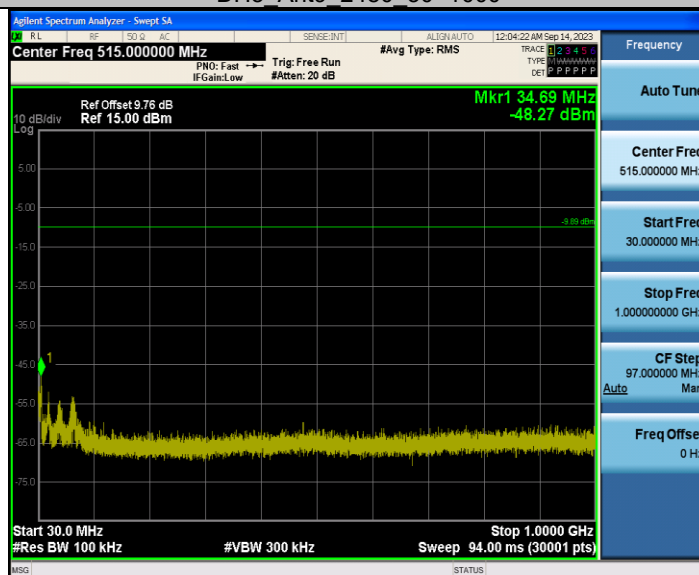
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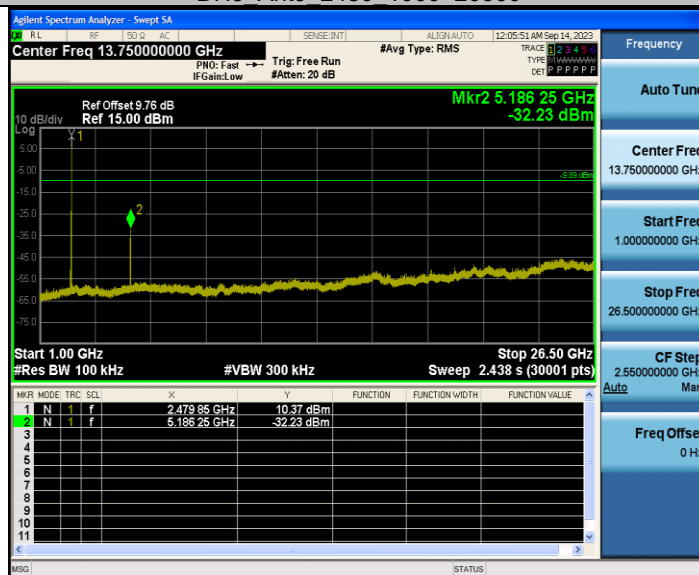
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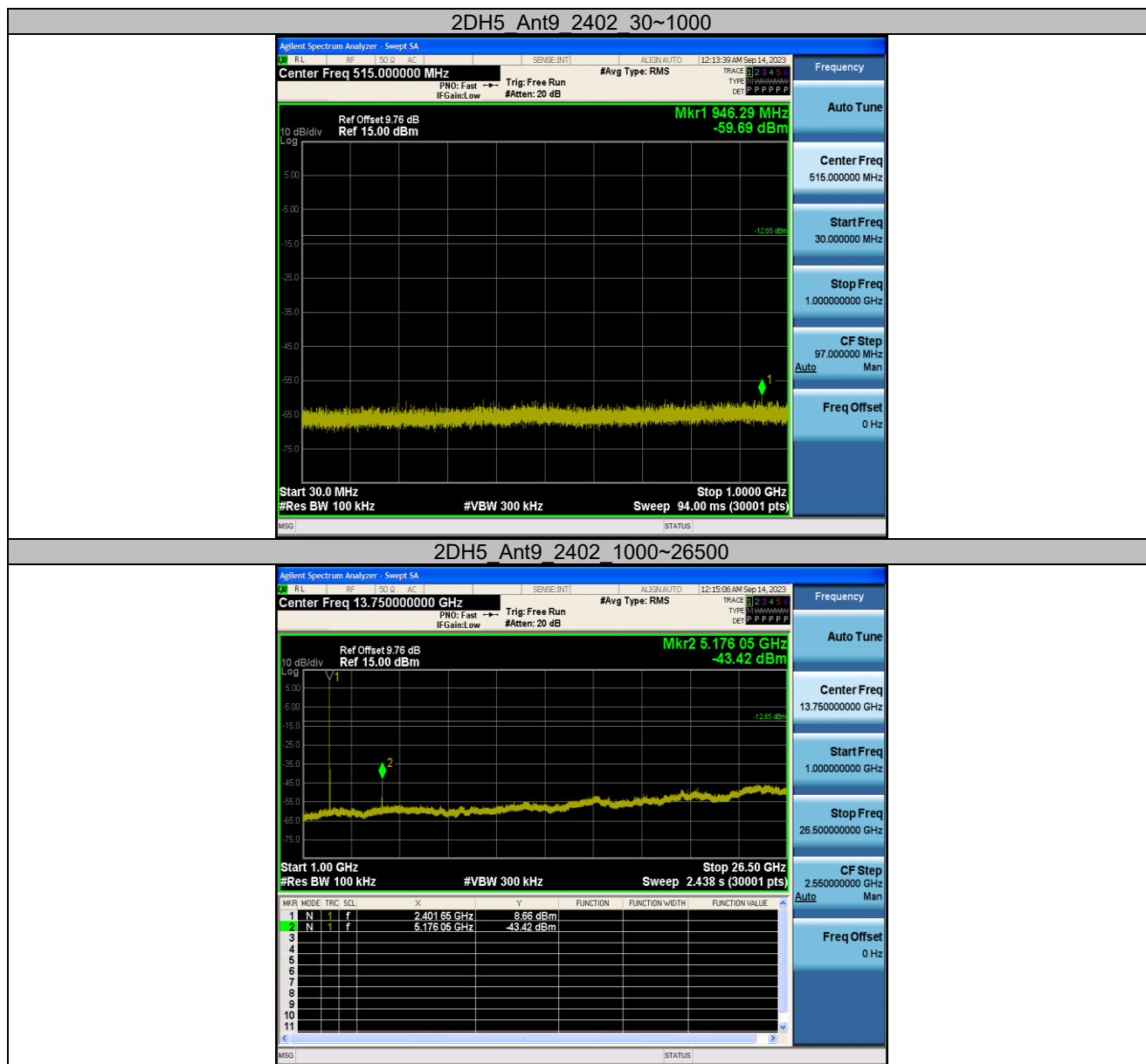
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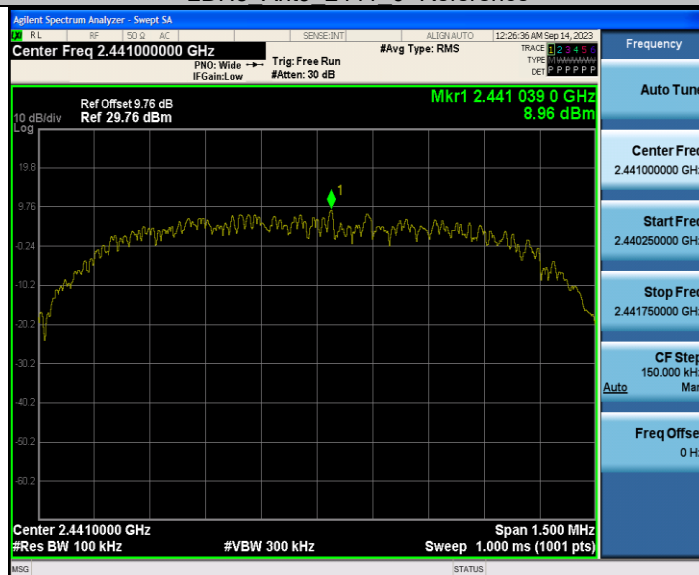
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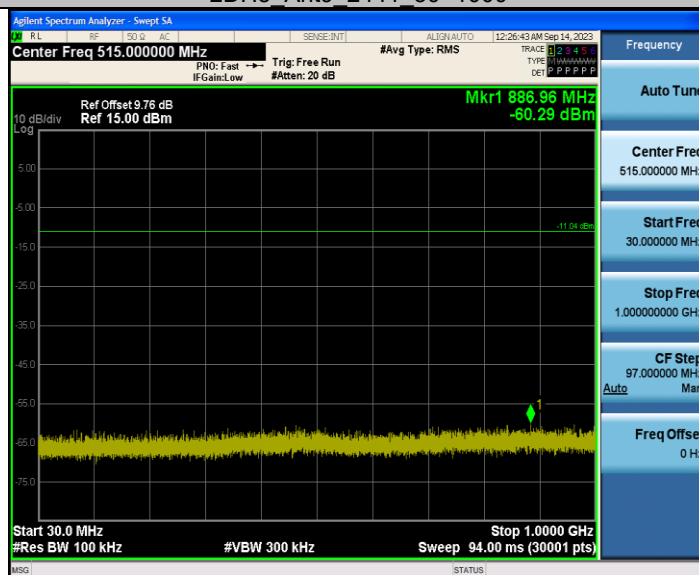
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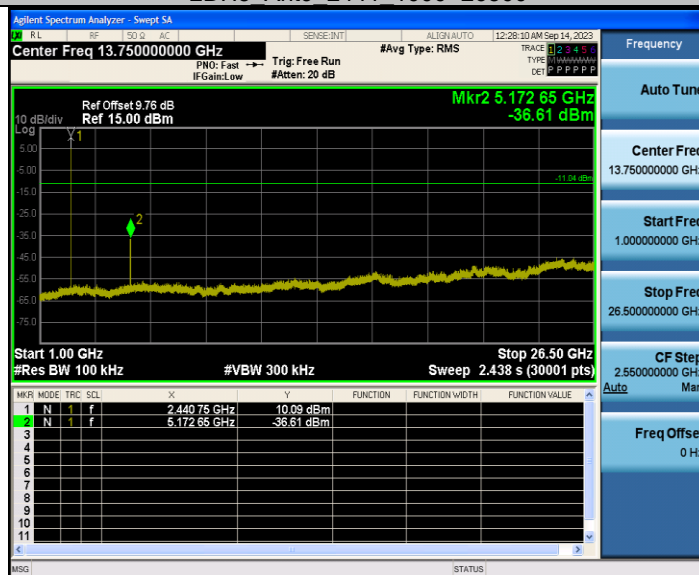
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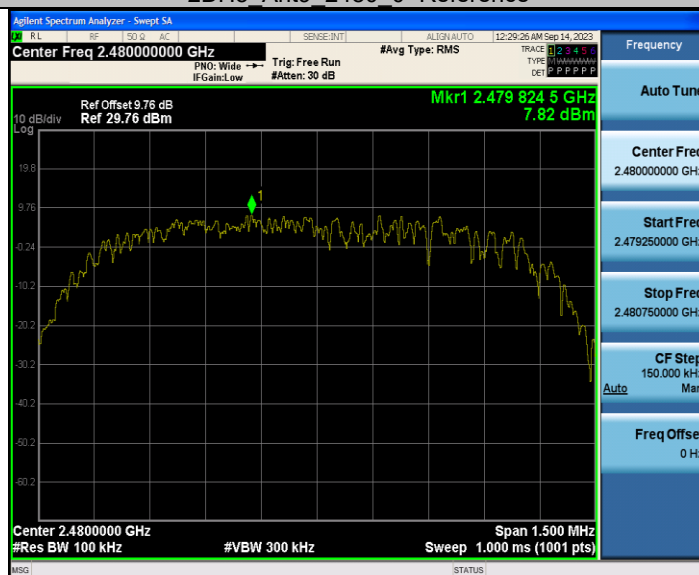
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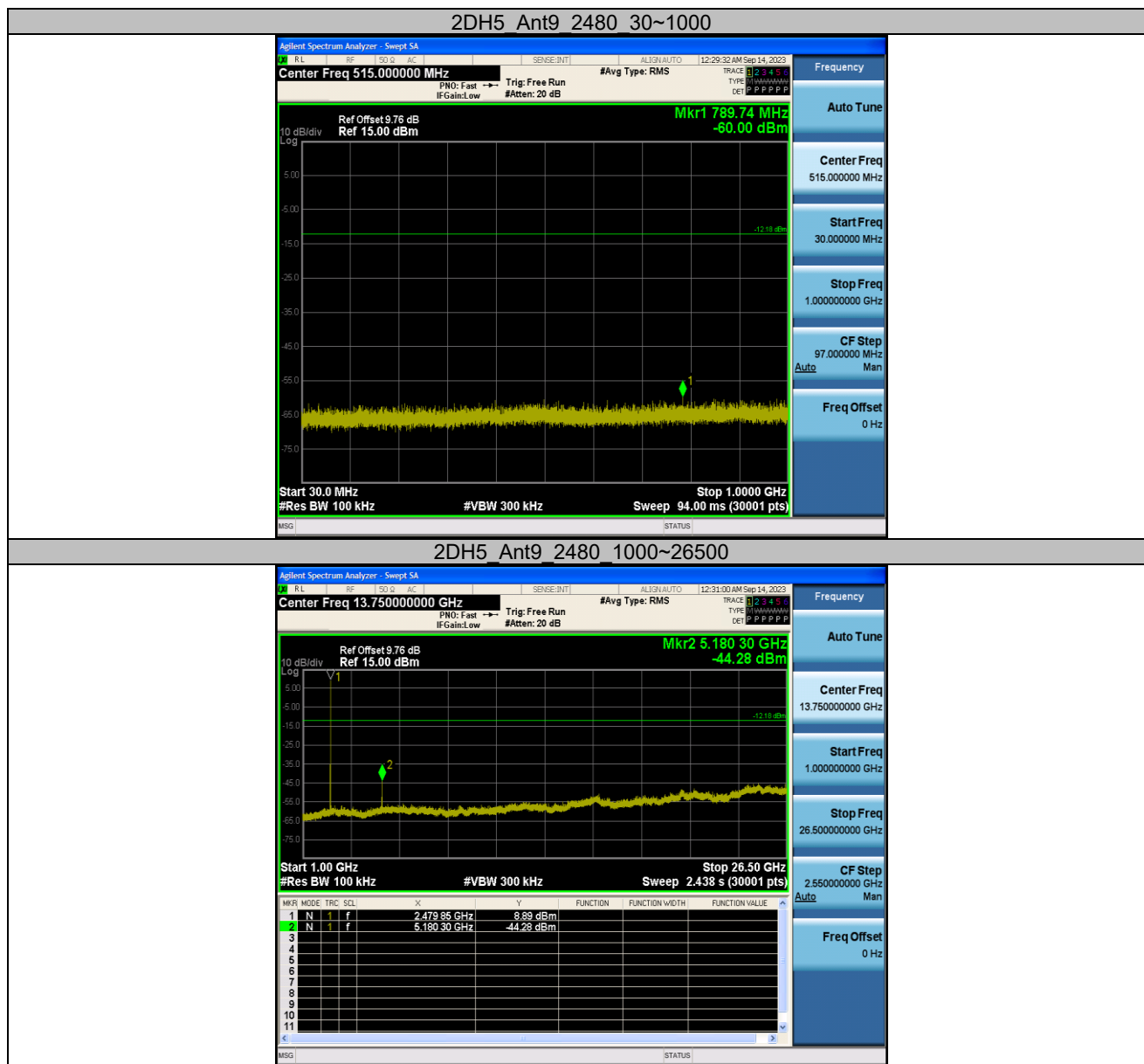
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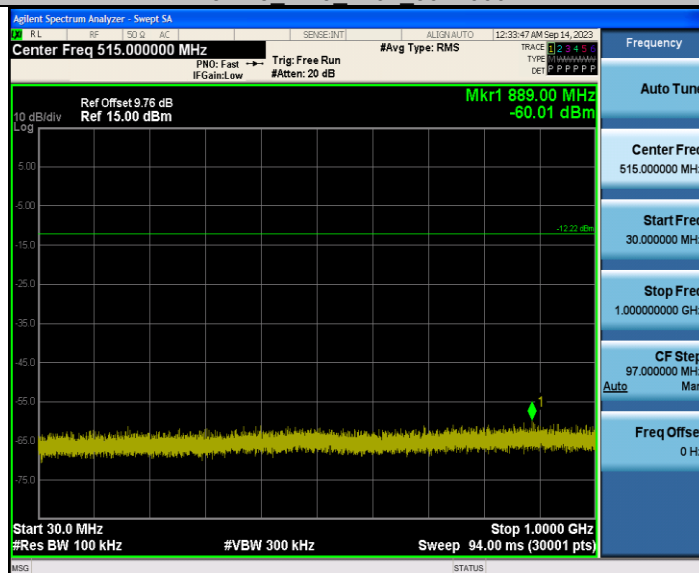
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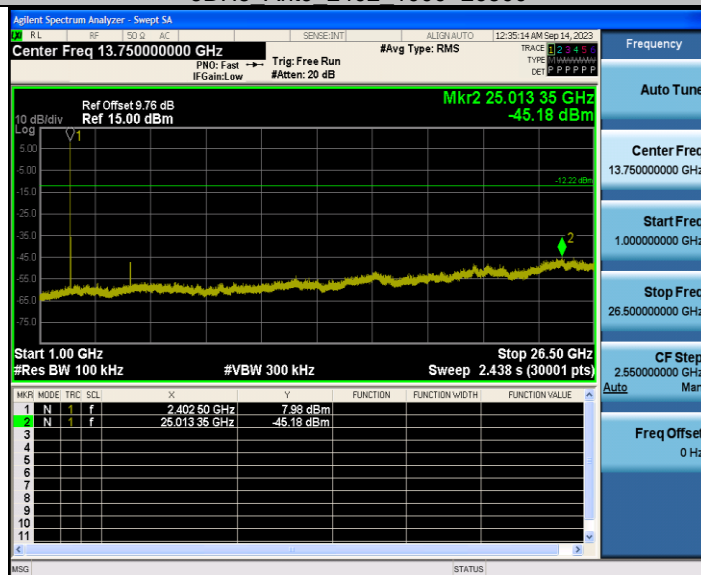
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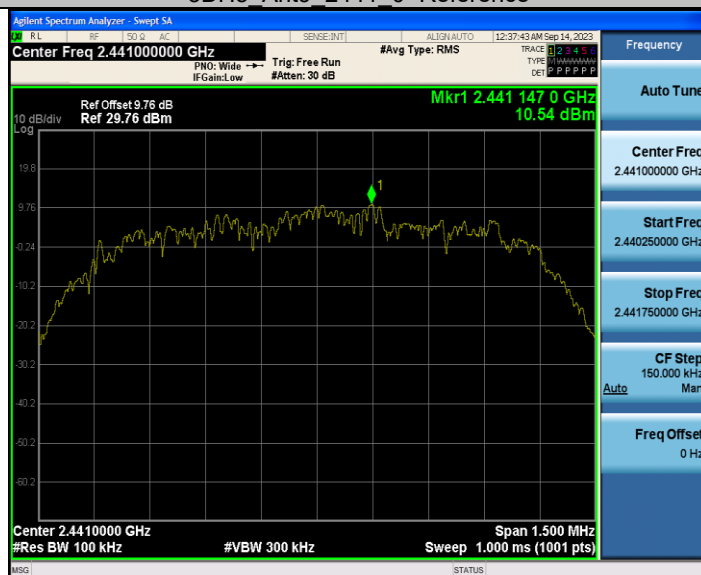
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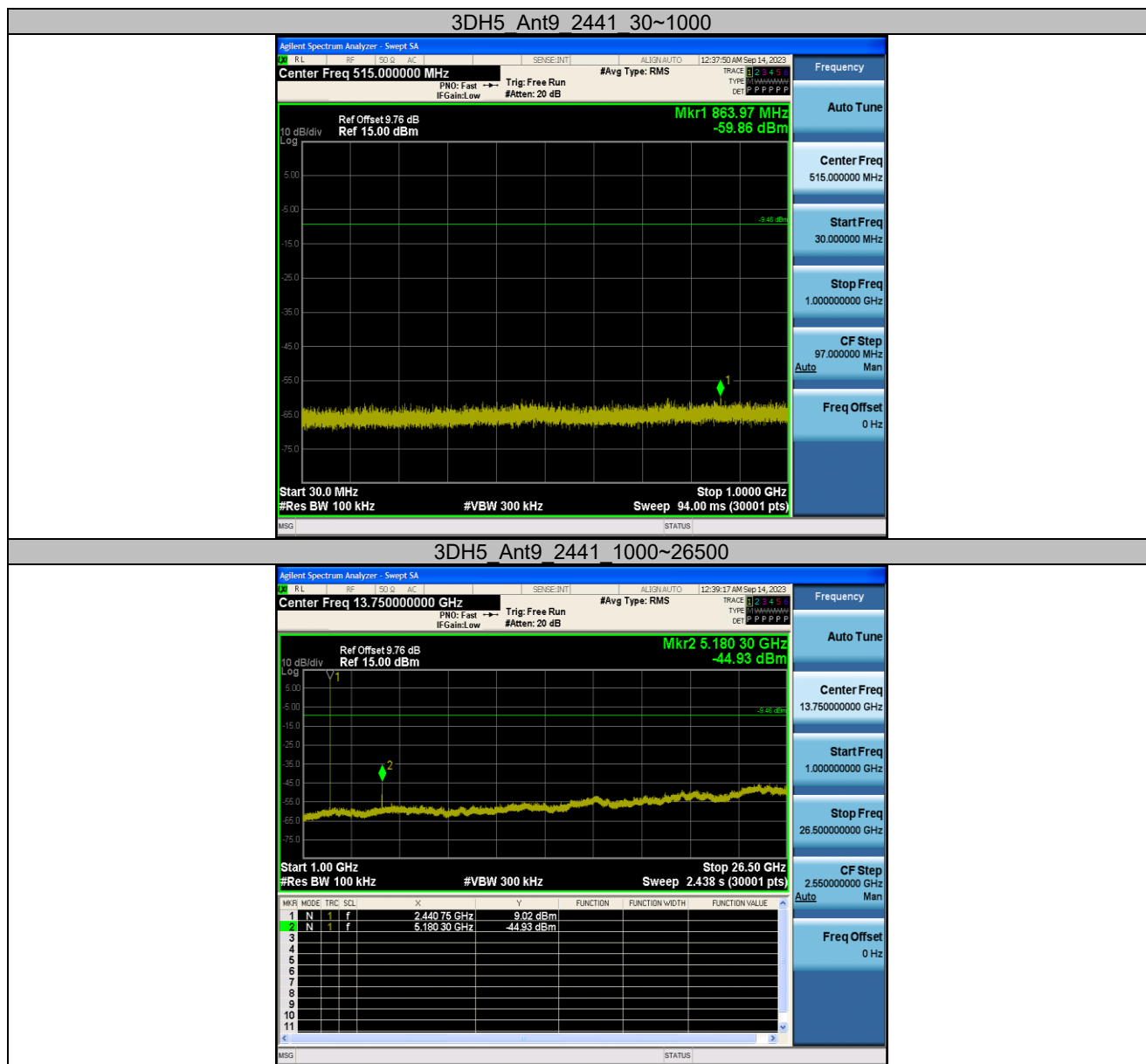
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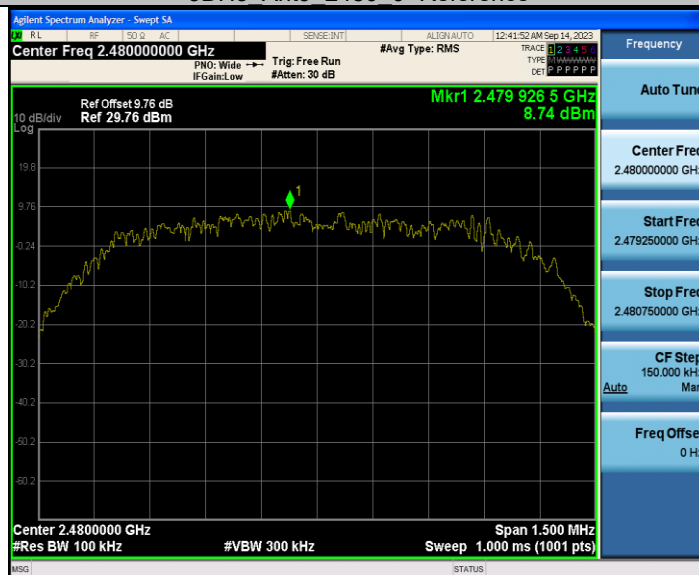
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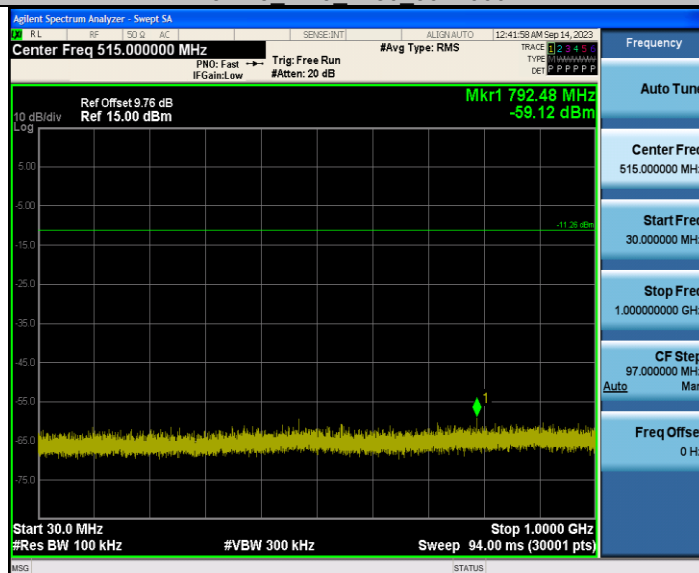
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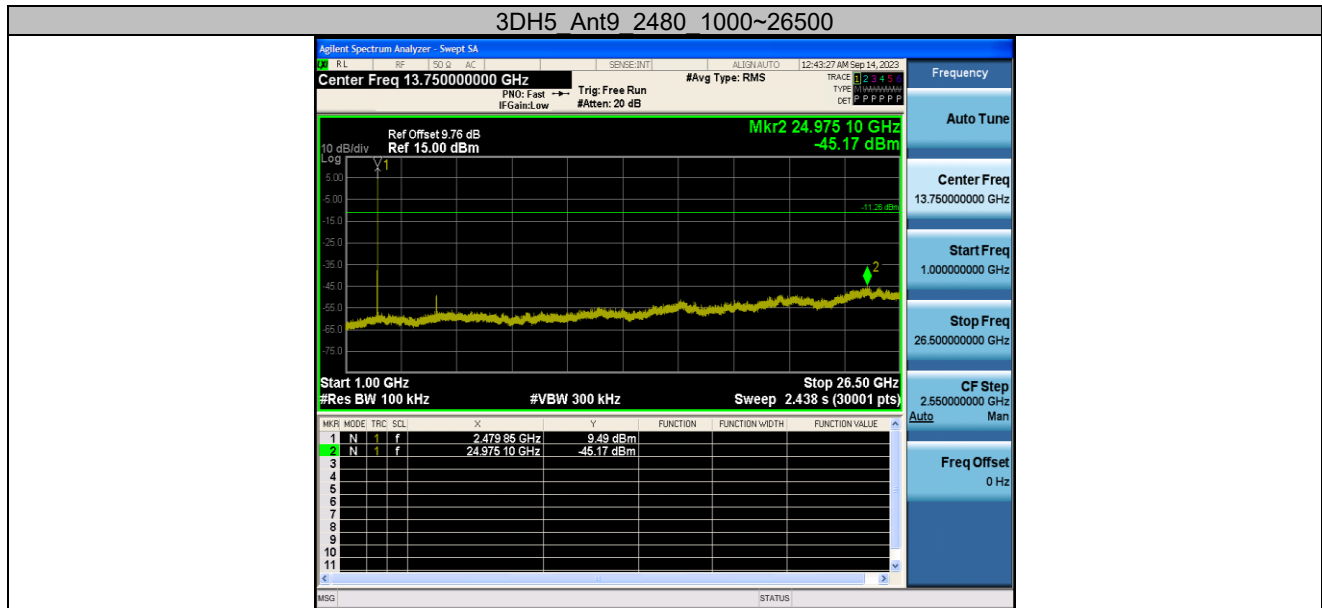
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant9	2402	2.89	3.76	76.86	1.14
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15
2DH5	Ant9	2402	2.88	3.76	76.60	1.16
		2441	2.88	3.75	76.80	1.15
		2480	2.89	3.75	77.07	1.13
3DH5	Ant9	2402	2.88	3.74	77.01	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.74	77.01	1.13



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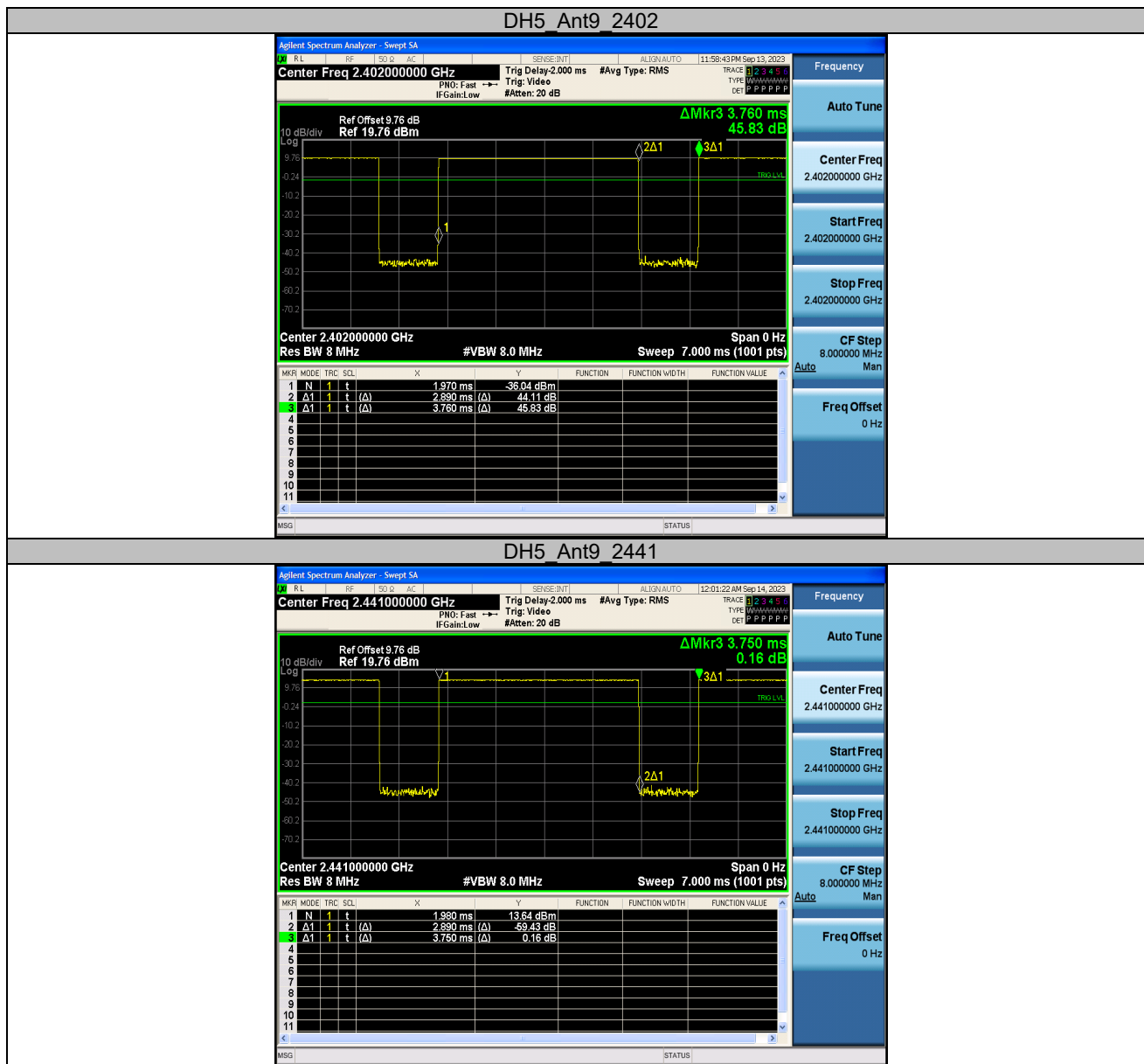
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Report No.: XEWM2309000451RG03

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Test Graphs

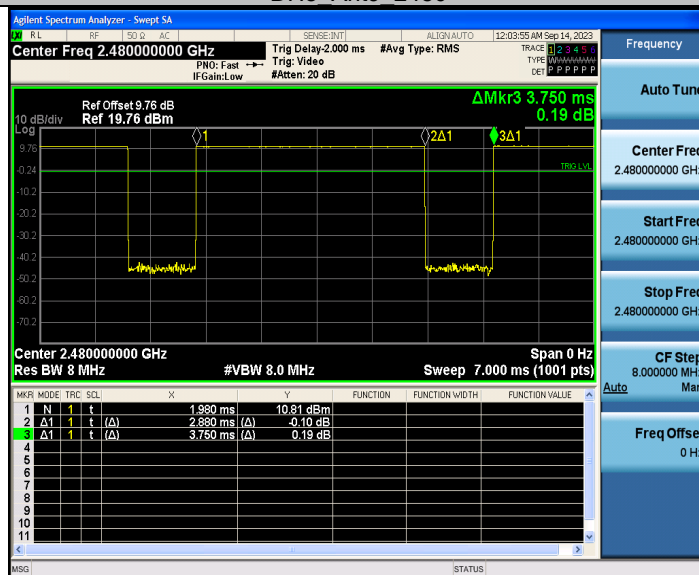


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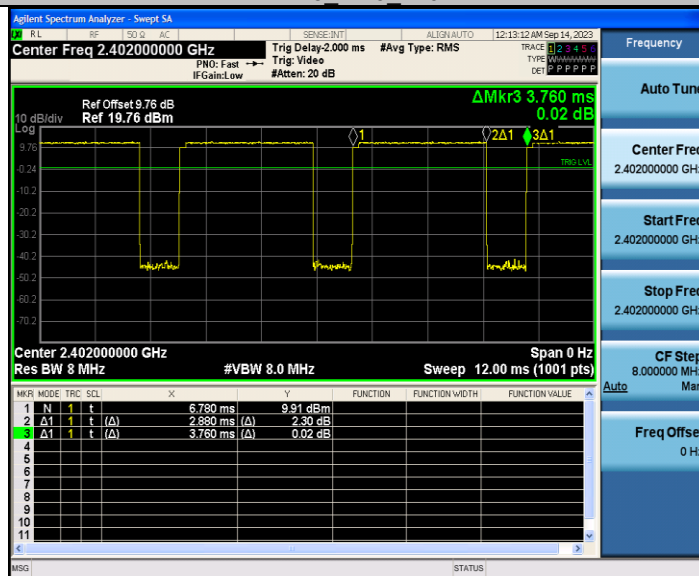
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DH5 Ant9 2480



2DH5 Ant9 2402

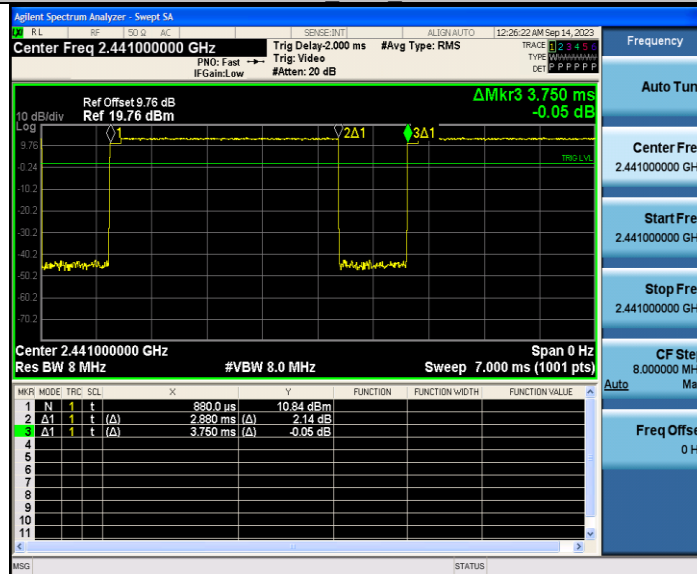


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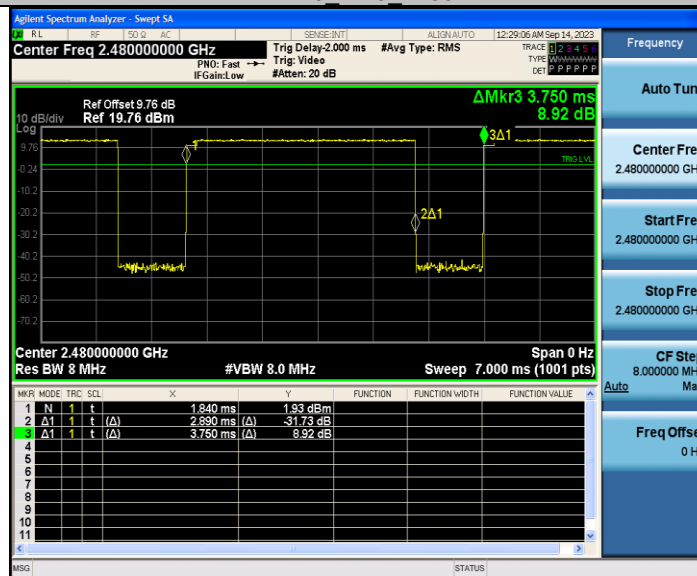
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2DH5 Ant9 2441



2DH5 Ant9 2480

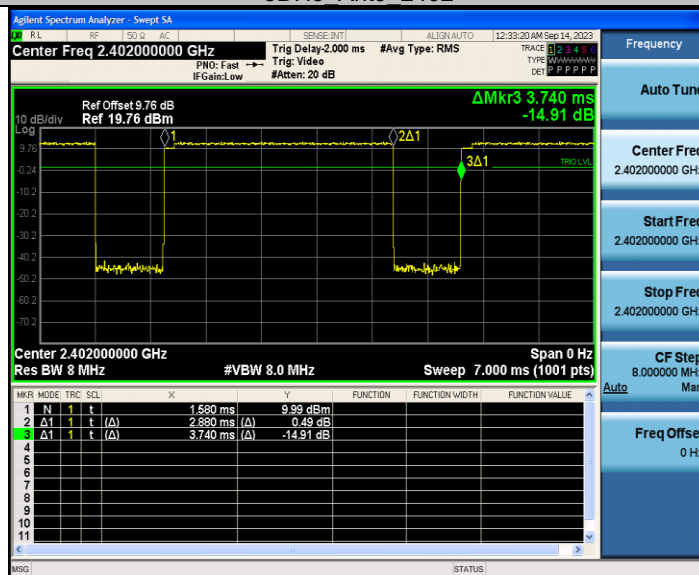


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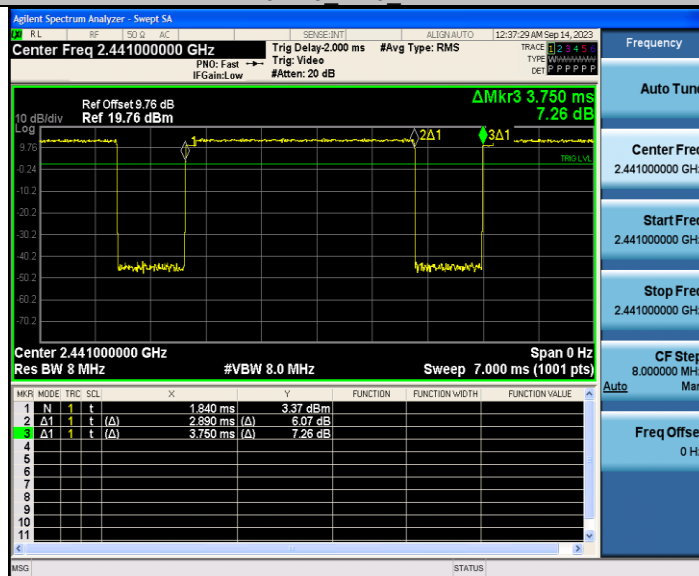
Rev.: 01

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3DH5 Ant9 2402



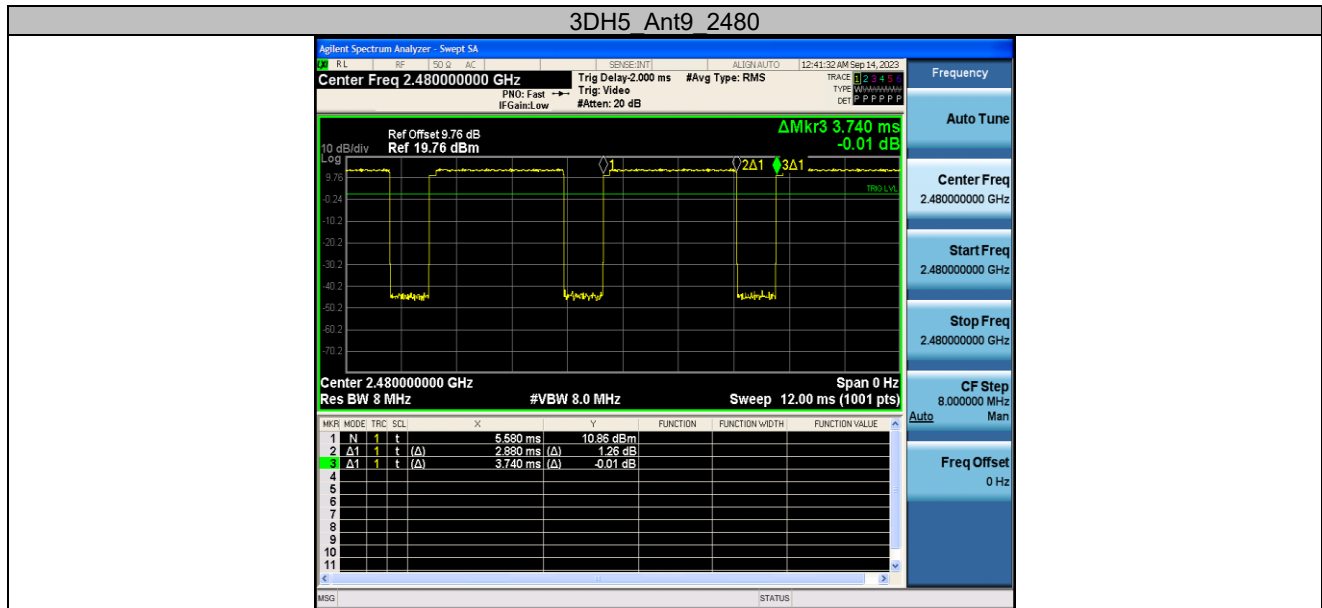
3DH5 Ant9 2441



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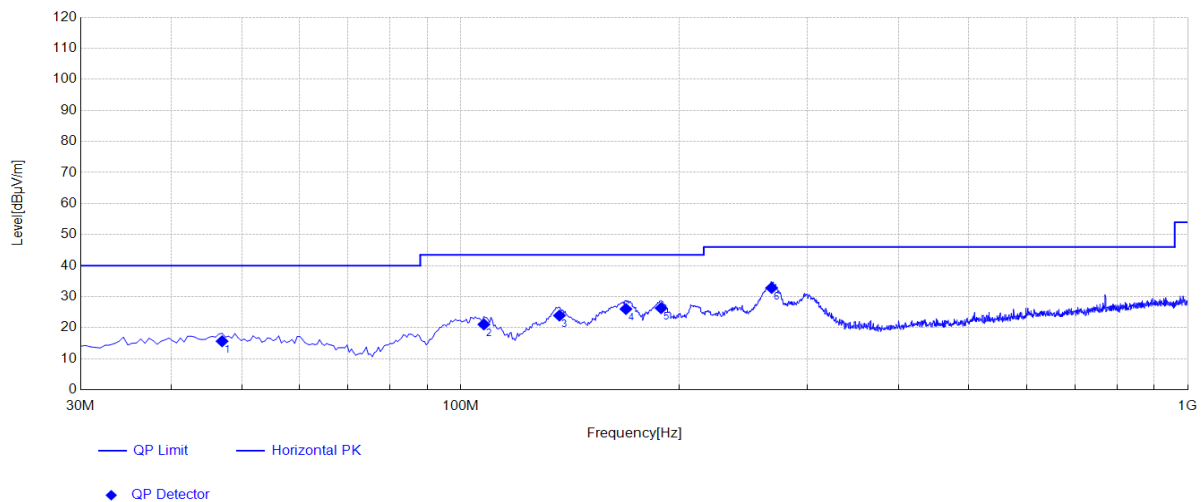
Report No.: XEWM2309000451RG03

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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78

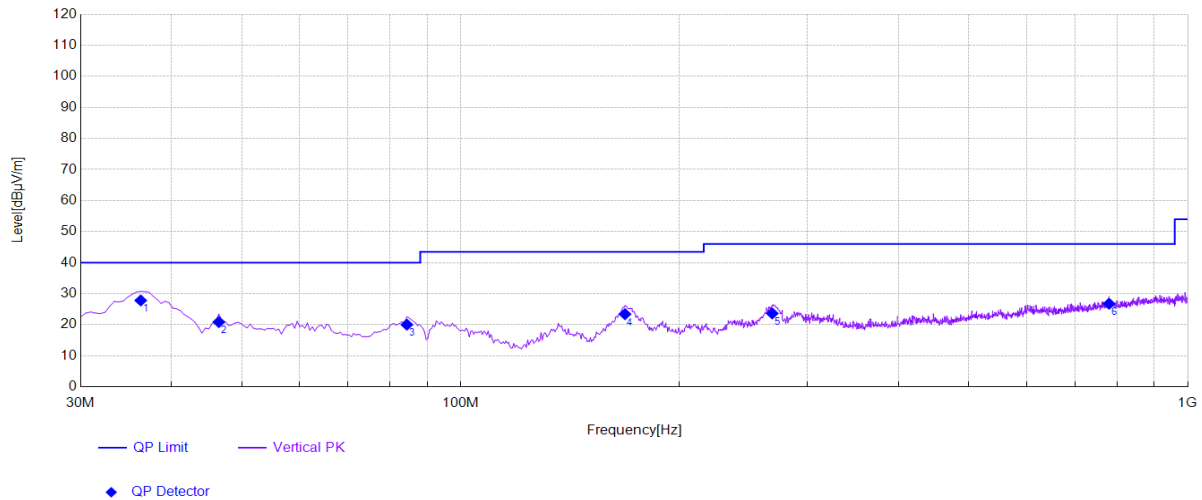
Data List

NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	46.9835	14.30	-27.78	29.15	15.67	40.00	24.33	Horizontal
2	107.6388	11.76	-27.12	36.44	21.08	43.50	22.42	Horizontal
3	136.7534	7.62	-26.52	42.84	23.94	43.50	19.56	Horizontal
4	168.7794	8.88	-26.50	43.67	26.05	43.50	17.45	Horizontal
5	188.6743	10.30	-26.67	42.68	26.31	43.50	17.19	Horizontal
6	267.7689	12.51	-26.11	46.43	32.83	46.00	13.17	Horizontal

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Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	36.3082	11.89	-27.99	43.93	27.83	40.00	12.17	Vertical
2	46.4982	14.20	-27.79	34.48	20.89	40.00	19.11	Vertical
3	84.3472	8.57	-27.40	38.87	20.04	40.00	19.96	Vertical
4	168.2941	8.83	-26.50	41.1	23.43	43.50	20.07	Vertical
5	268.2541	12.53	-26.09	37.22	23.66	46.00	22.34	Vertical
6	779.6998	20.77	-23.77	29.78	26.78	46.00	19.22	Vertical

Remark:

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

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.



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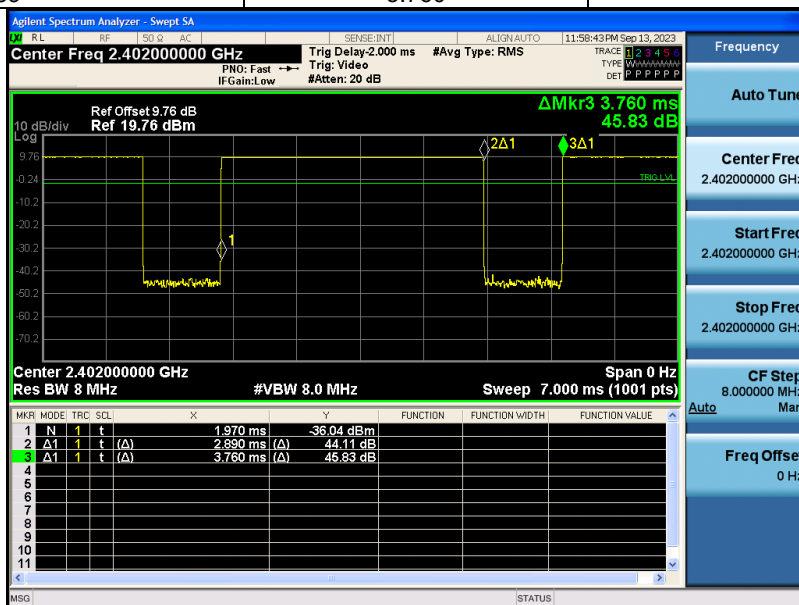
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Transmitter emission Above 1GHz

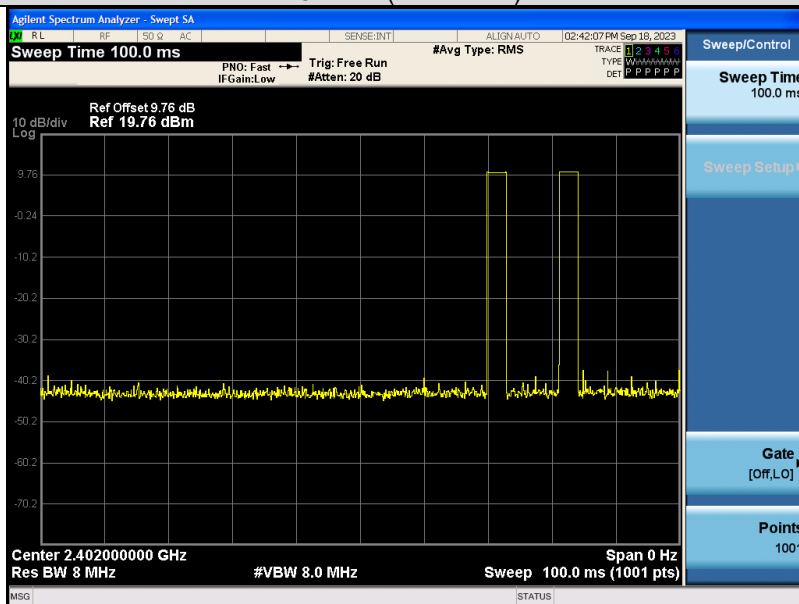
Duty cycle

GFSK_Channel 0

ON Time[ms]	Period[ms]	Duty Cycle[%]
2.89	3.760	76.86



On time (Number on)



Note:

$$\text{Duty cycle} = \text{on time} / 100\text{ms} = 2 * 2.89 / 100 = 5.78\%$$

Duty cycle Correction factor = $20 \cdot \log(\text{Duty cycle}) = -24.76\text{dB}$



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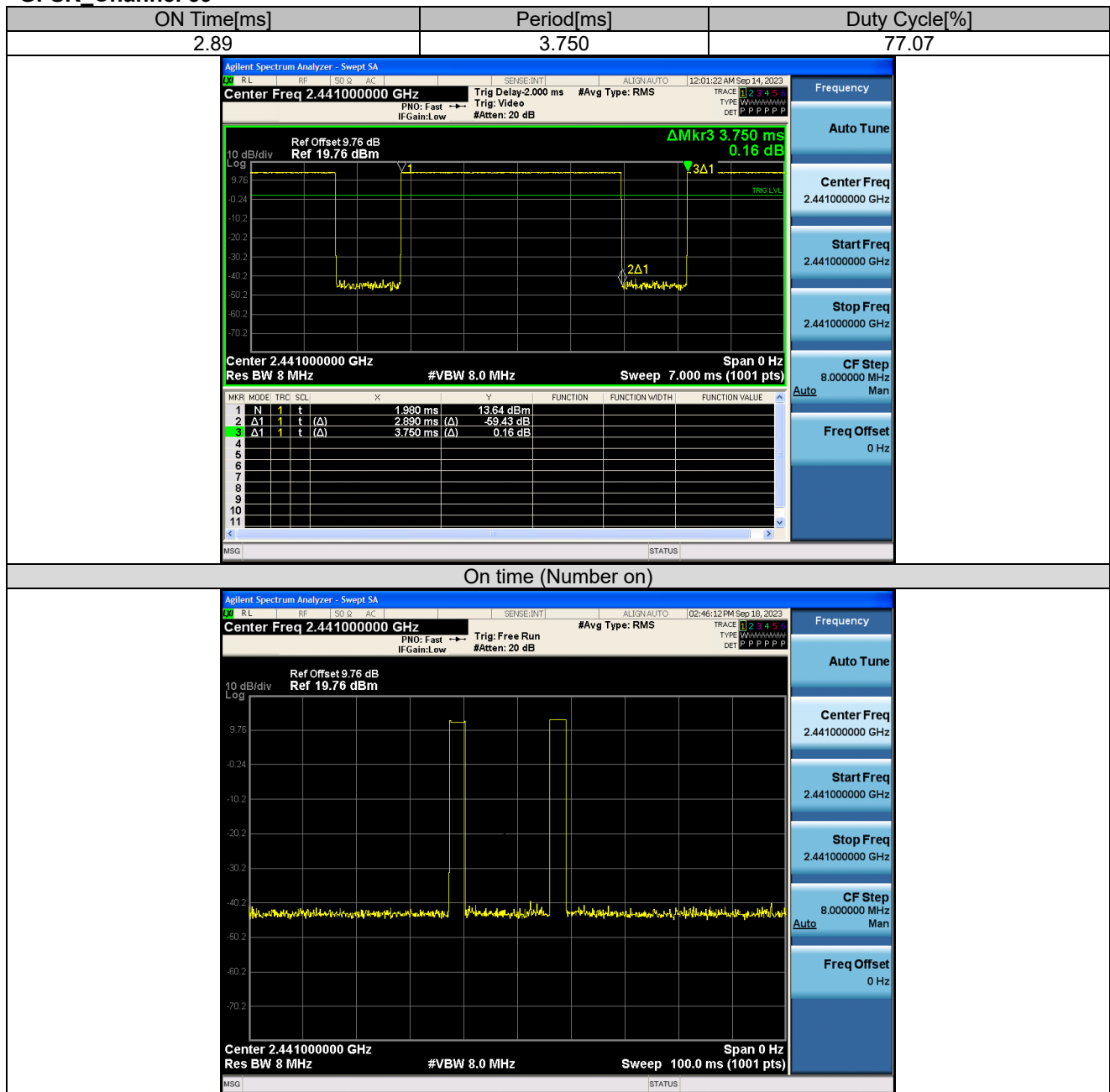
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GFSK_Channel 39



Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78%

Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB

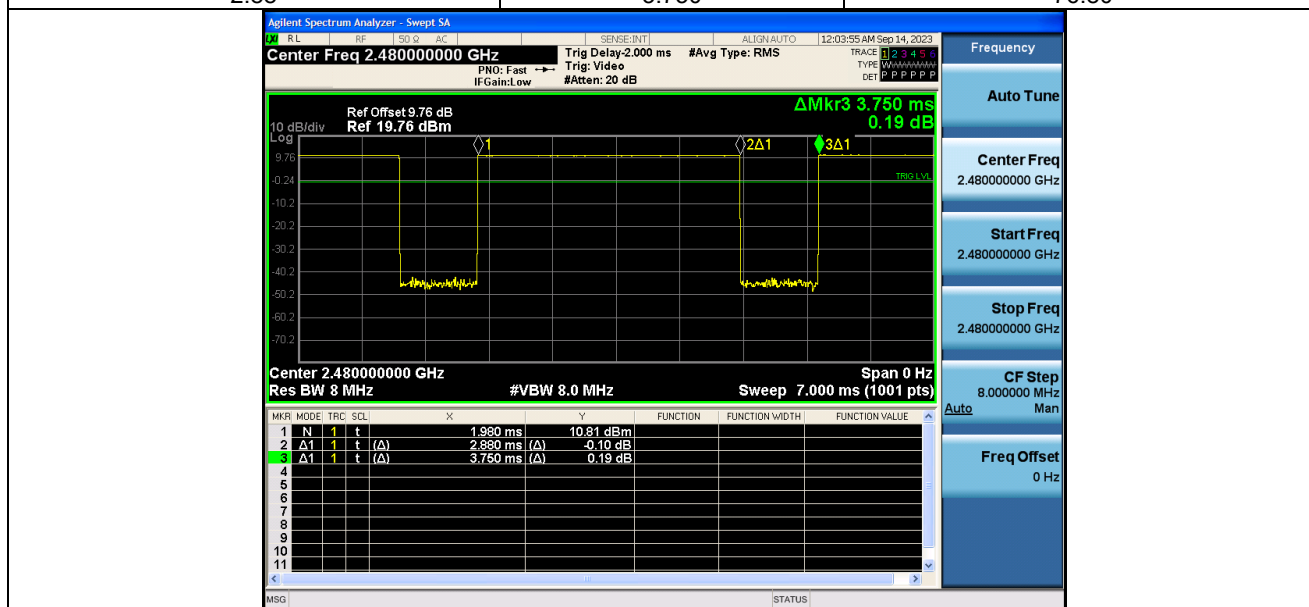
Report No.: XEWM2309000451RG03

Rev.: 01

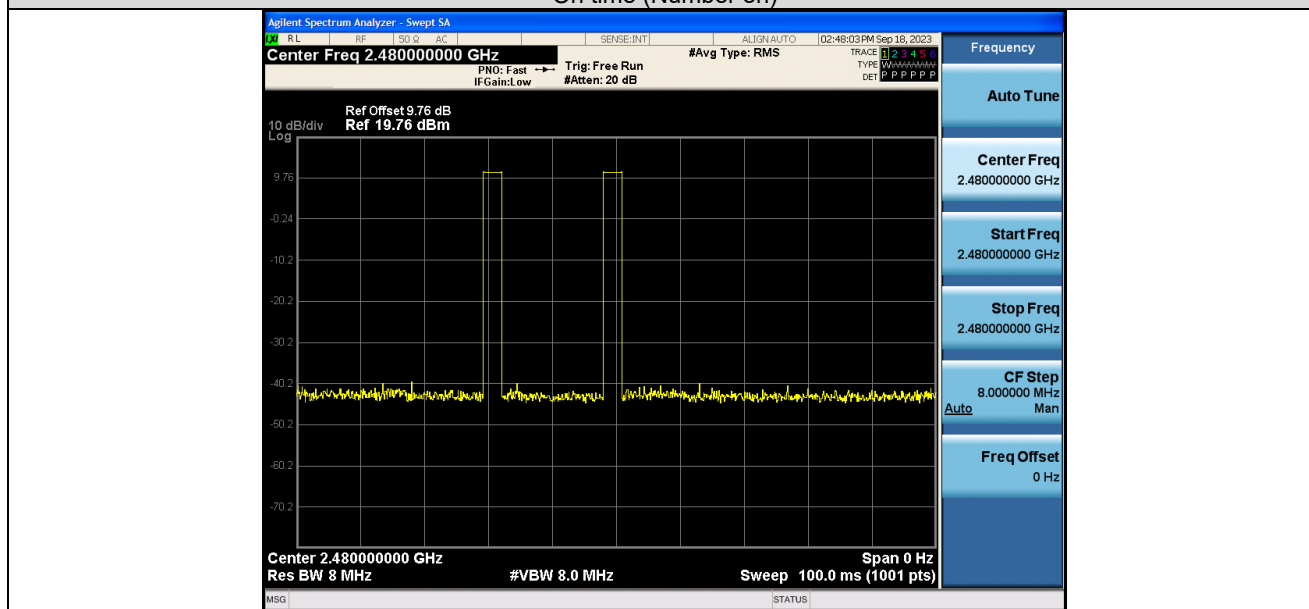
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GFSK_Channel 79

ON Time[ms]	Period[ms]	Duty Cycle[%]
2.88	3.750	76.80



On time (Number on)



Note:

Duty cycle = on time / 100ms = 2 * 2.88 / 100 = 5.760%

Duty cycle Correction factor = 20*log(Duty cycle) = -24.79dB



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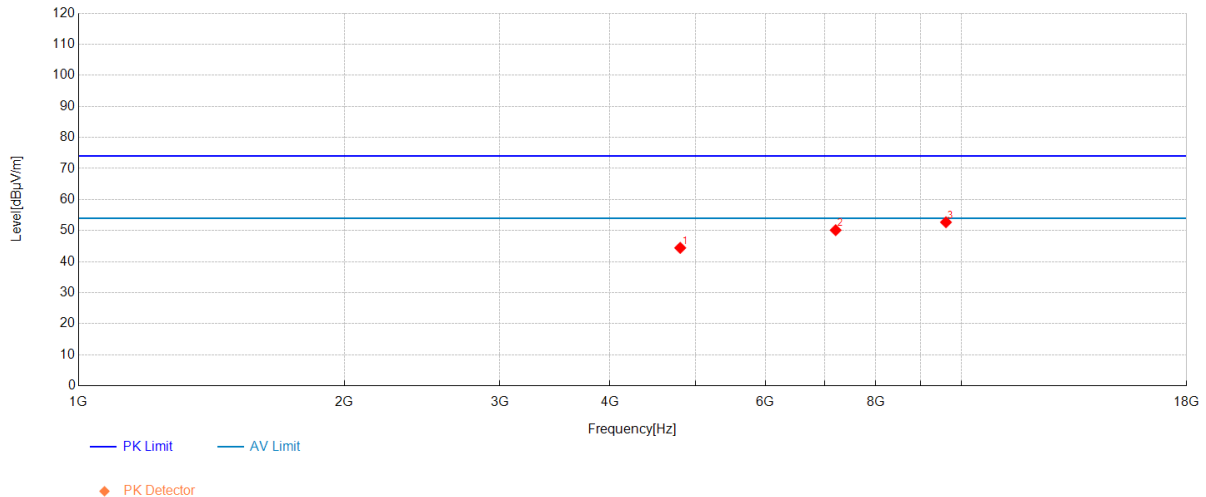
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GFSK_Channel 0



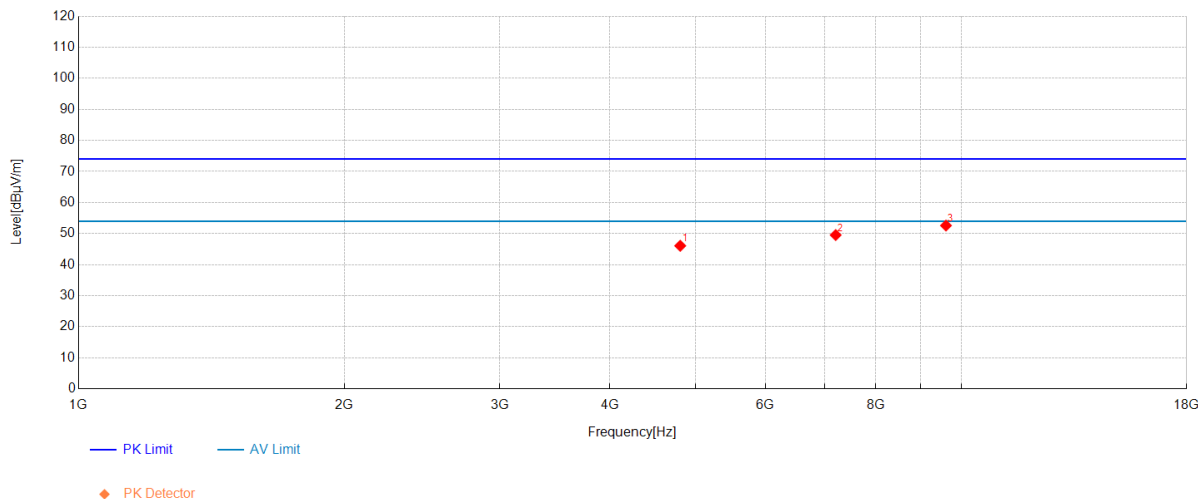
Data List								
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1	4804	59.75	32.43	-47.74	44.44	74.00	29.56	Horizontal
	4804	-	-	-	19.68	54.00	34.32	-
2	7206	57.77	37.11	-44.74	50.14	74.00	23.86	Horizontal
	7206	-	-	-	25.38	54.00	28.62	-
3	9608	54.66	39.14	-41.10	52.70	74.00	21.30	Horizontal
	9608	-	-	-	27.94	54.00	26.06	-

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GFSK_Channel 0



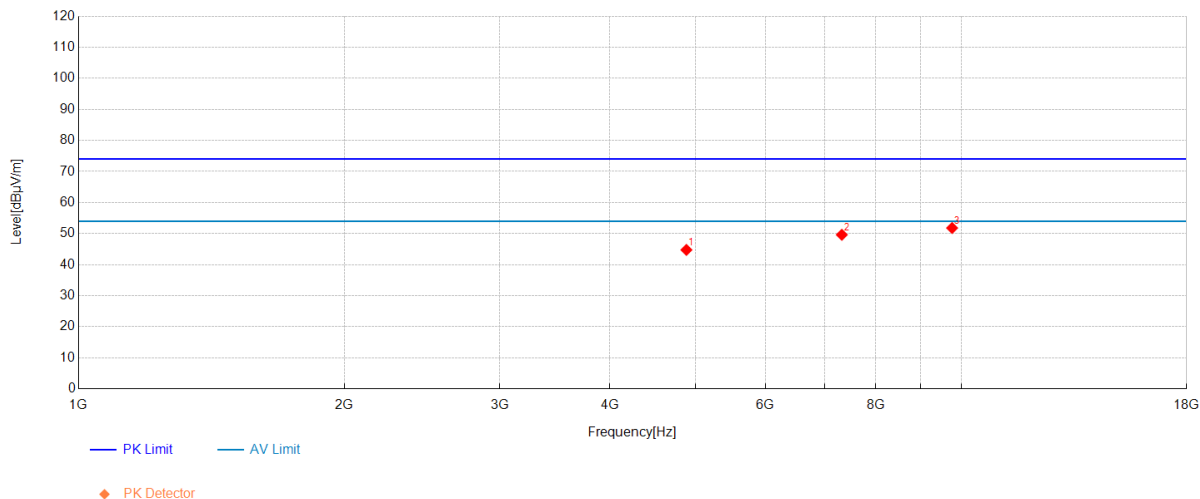
Data List								
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1	4804	61.38	32.43	-47.74	46.07	74.00	27.93	Vertical
	4804	-	-	-	21.31	54.00	32.69	-
2	7206	57.16	37.11	-44.74	49.53	74.00	24.47	Vertical
	7206	-	-	-	24.77	54.00	29.23	-
3	9608	54.55	39.14	-41.10	52.59	74.00	21.41	Vertical
	9608	-	-	-	27.83	54.00	26.17	-

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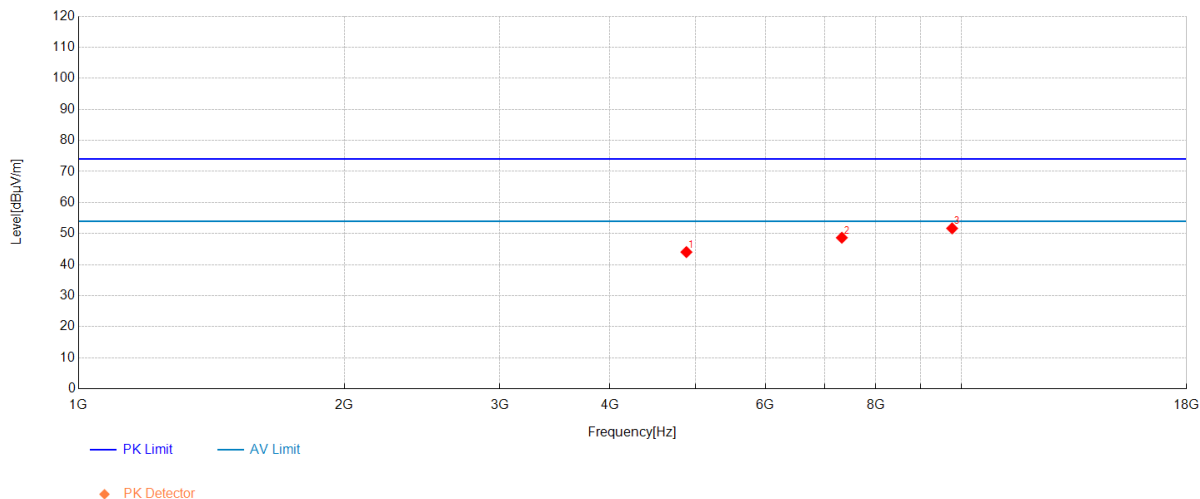
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1	4882	59.35	32.99	-47.58	44.76	74.00	29.24	Horizontal
	4882	-	-	-	20.00	54.00	34.00	-
2	7323	57.39	37.01	-44.78	49.62	74.00	24.38	Horizontal
	7323	-	-	-	24.86	54.00	29.14	-
3	9764	54.19	38.83	-41.21	51.81	74.00	22.19	Horizontal
	9764	-	-	-	27.05	54.00	26.95	-

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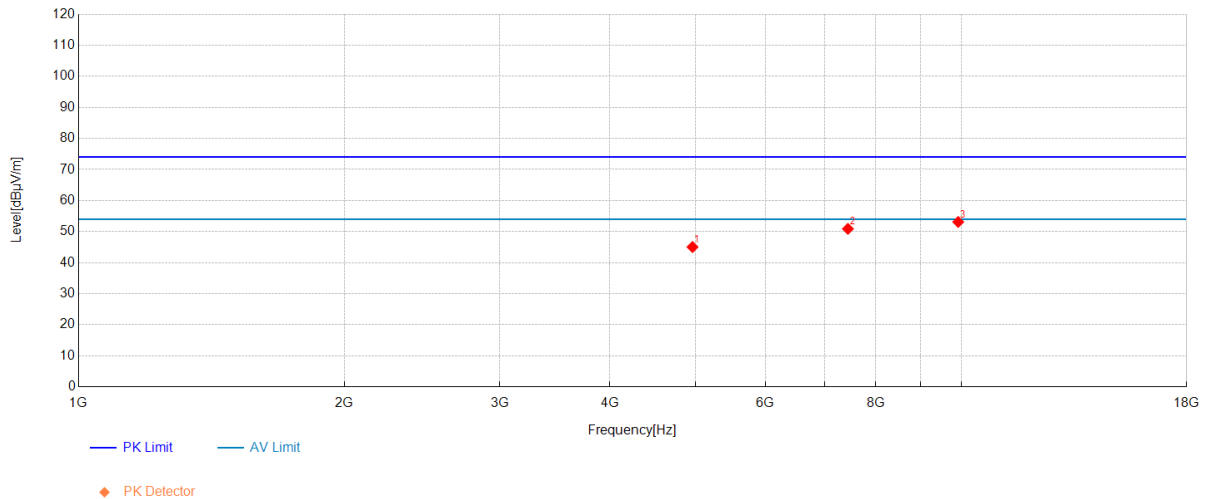
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1	4882	58.65	32.99	-47.58	44.06	74.00	29.94	Vertical
	4882	-	-	-	19.30	54.00	34.70	-
2	7323	56.45	37.01	-44.78	48.68	74.00	25.32	Vertical
	7323	-	-	-	23.92	54.00	30.08	-
3	9764	54.06	38.83	-41.21	51.68	74.00	22.32	Vertical
	9764	-	-	-	26.92	54.00	27.08	-

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GFSK_Channel 78



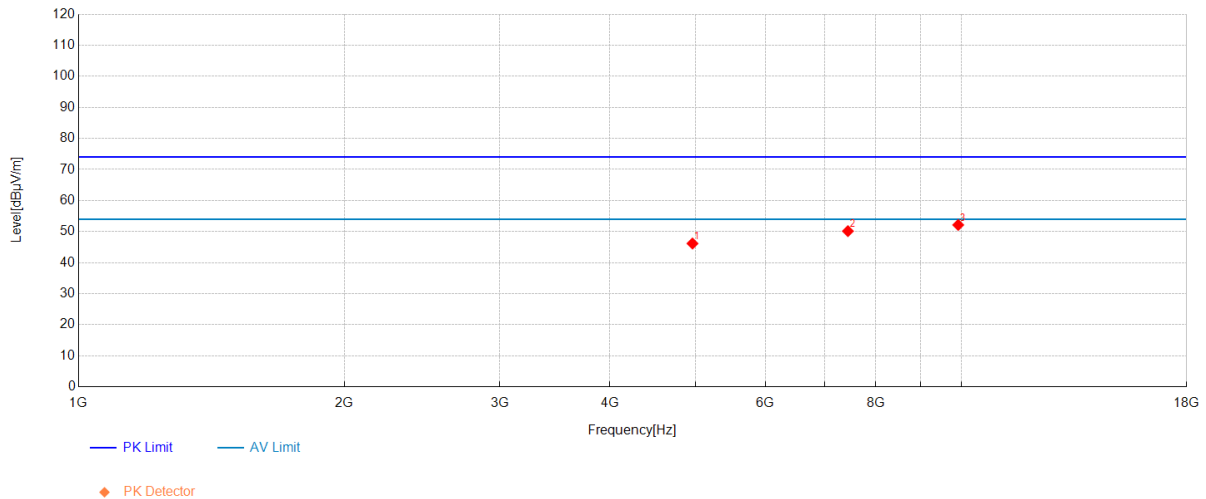
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960	58.97	33.18	-47.11	45.04	74.00	28.96	Horizontal
	4960	-	-	-	20.25	54.00	33.75	-
2	7440	57.83	36.72	-43.66	50.89	74.00	23.11	Horizontal
	7440	-	-	-	26.10	54.00	27.90	-
3	9920	55.33	38.98	-41.20	53.11	74.00	20.89	Horizontal
	9920	-	-	-	28.32	54.00	25.68	-

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GFSK_Channel 78



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960	60.10	33.18	-47.11	46.17	74.00	27.83	Vertical
	4960	-	-	-	21.38	54.00	32.62	-
2	7440	57.10	36.72	-43.66	50.16	74.00	23.84	Vertical
	7440	-	-	-	25.37	54.00	28.63	-
3	9920	54.36	38.98	-41.20	52.14	74.00	21.86	Vertical
	9920	-	-	-	27.35	54.00	26.65	-

Remark:

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

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.



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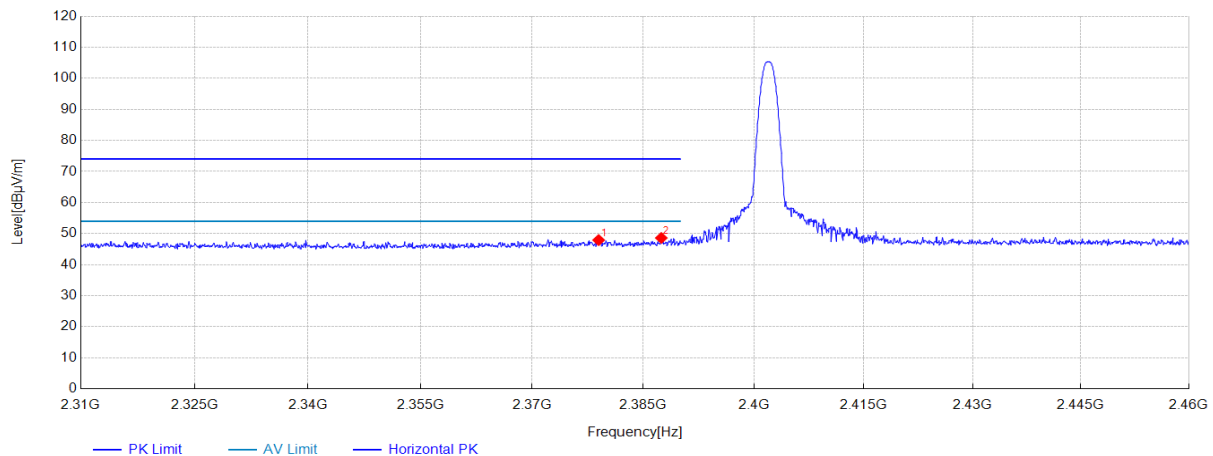
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Restricted bands around fundamental frequency

GFSK_Channel 0



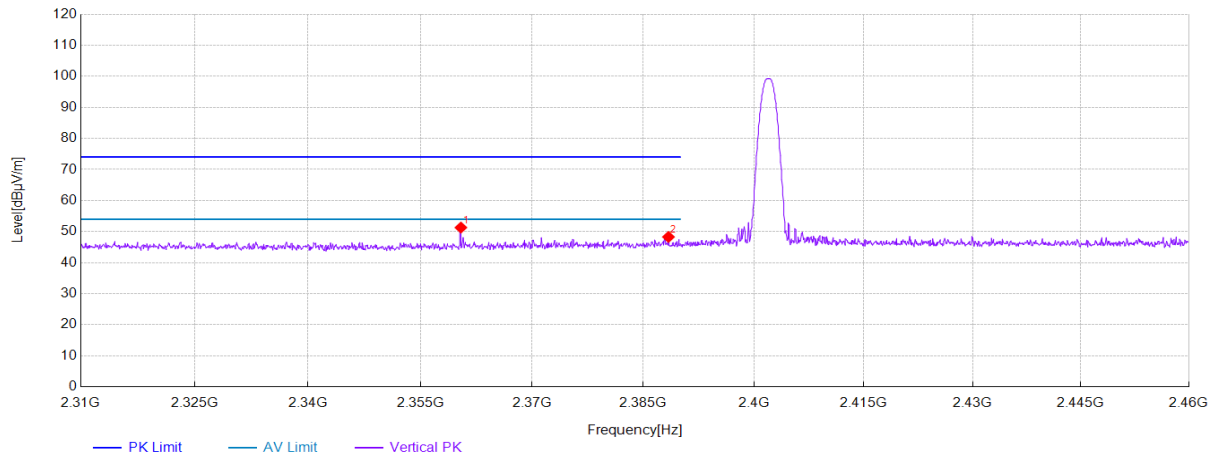
Data List								
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1	2378.9595	38.06	27.84	-17.99	47.91	74.00	26.09	Horizontal
	2378.9595	-	-	-	23.15	54.00	30.85	-
2	2387.4387	38.55	27.83	-17.78	48.60	74.00	25.40	Horizontal
	2387.4387	-	-	-	23.84	54.00	30.16	-

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2360.4252	41.86	27.88	-18.44	51.30	74.00	22.70	Vertical
	2360.4252	-	-	-	26.54	54.00	27.46	-
2	2388.4142	38.22	27.82	-17.76	48.28	74.00	25.72	Vertical
	2388.4142	-	-	-	23.52	54.00	30.48	-



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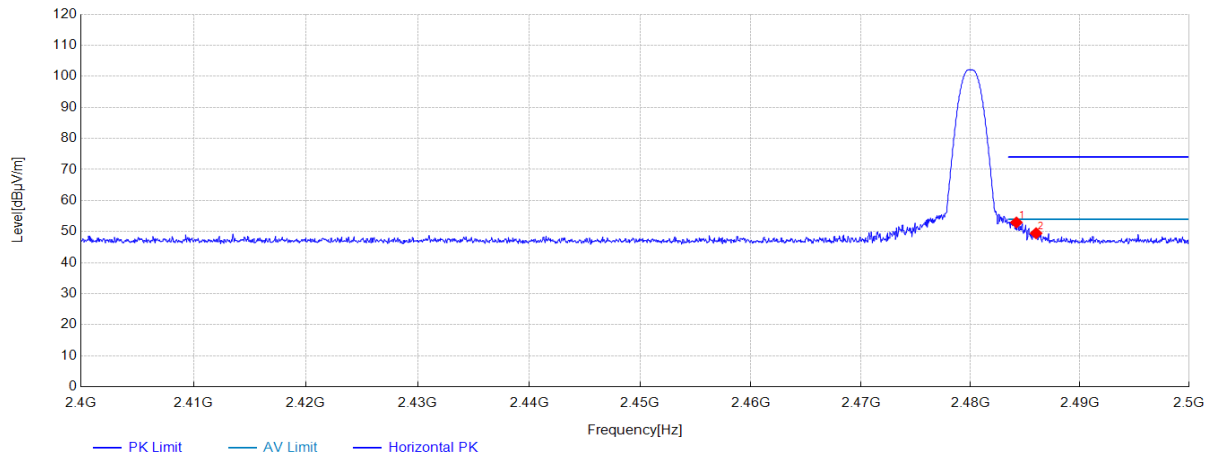
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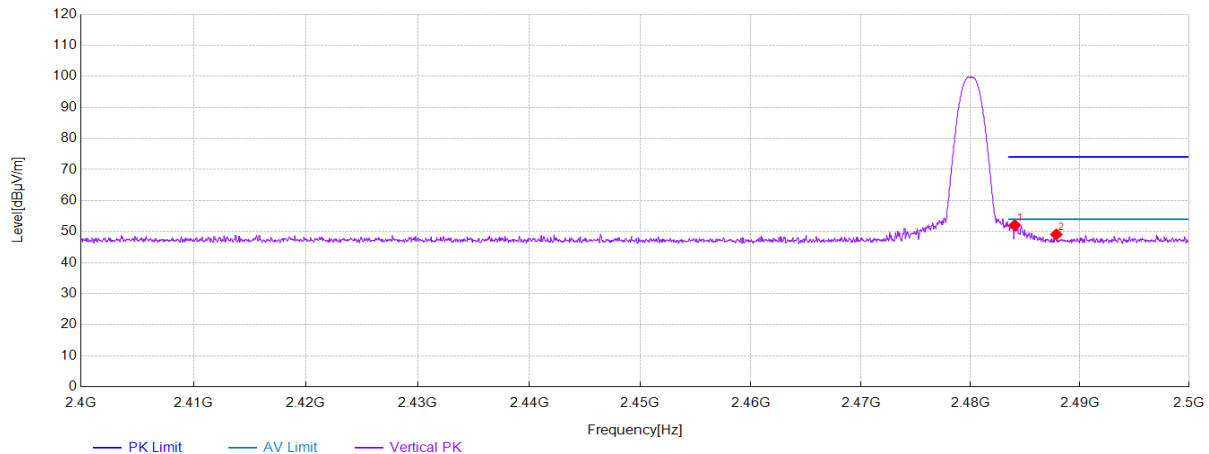
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1921	42.94	27.97	-17.96	52.95	74.00	21.05	Horizontal
	2484.1921	-	-	-	28.16	54.00	25.84	-
2	2485.993	39.48	27.97	-17.98	49.47	74.00	24.53	Horizontal
	2485.993	-	-	-	24.68	54.00	29.32	-

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.042	42.08	27.97	-17.96	52.09	74.00	21.91	Vertical
	2484.042	-	-	-	27.30	54.00	26.70	-
2	2487.8439	39.09	27.98	-17.99	49.08	74.00	24.92	Vertical
	2487.8439	-	-	-	24.29	54.00	29.71	-

Remark:

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

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

---End of Report---



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