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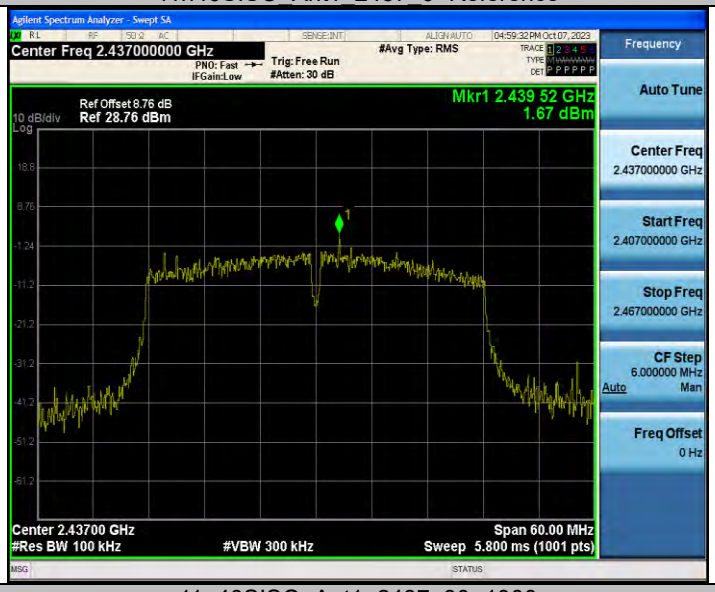

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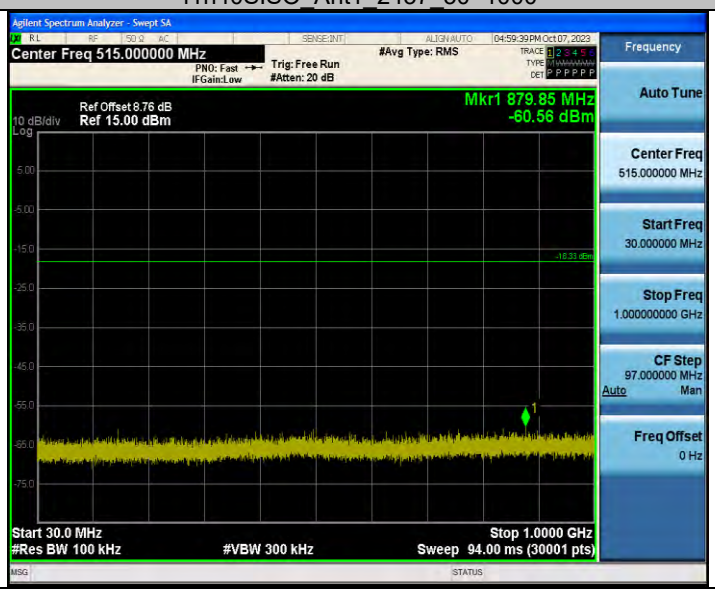

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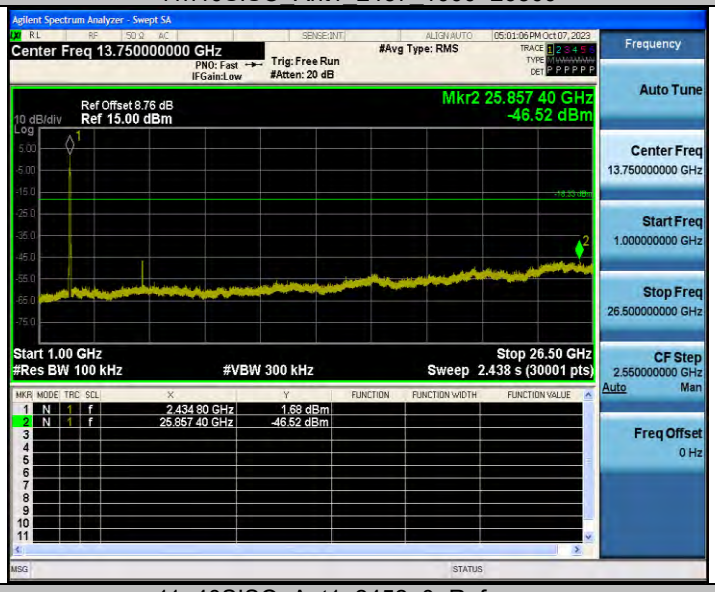

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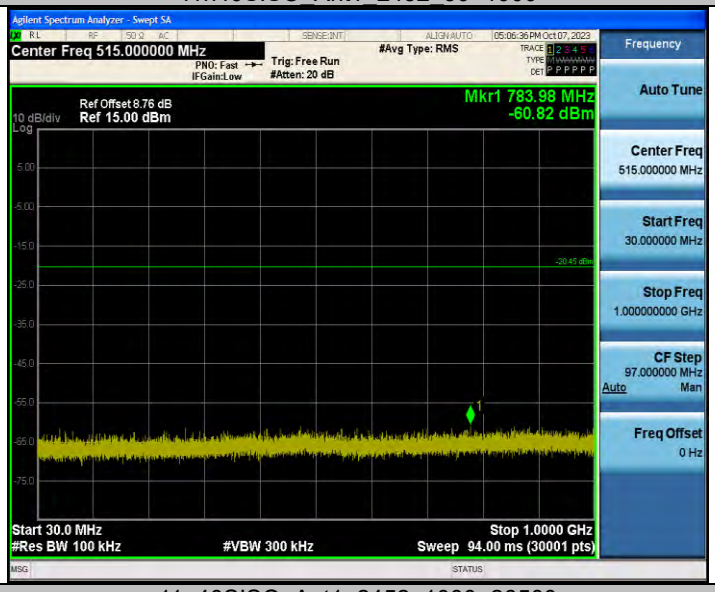

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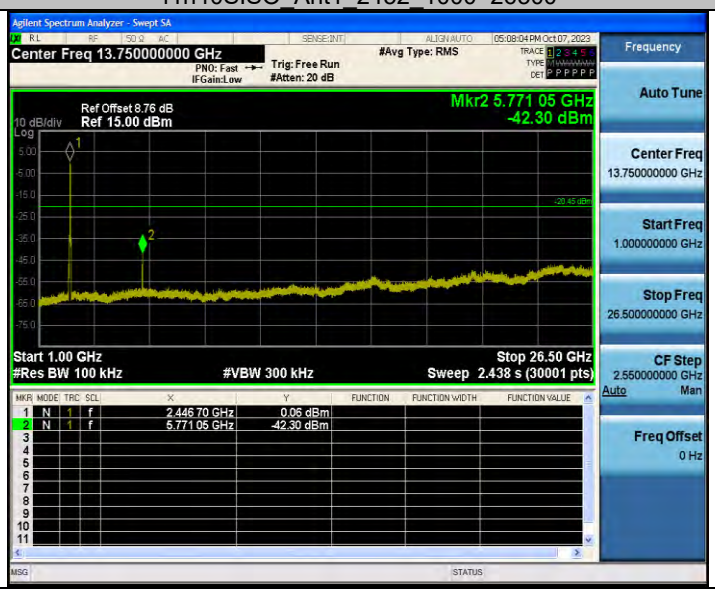

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Duty Cycle
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant1	2412	8.38	8.48	98.82	0.05
		2437	8.39	8.49	98.82	0.05
		2462	8.38	8.48	98.82	0.05
11g	Ant1	2412	1.39	1.50	92.67	0.33
		2437	1.39	1.50	92.67	0.33
		2462	1.39	1.50	92.67	0.33
11n20SISO	Ant1	2412	1.29	1.40	92.14	0.36
		2437	1.29	1.40	92.14	0.36
		2462	1.29	1.40	92.14	0.36
11n40SISO	Ant1	2422	0.63	0.74	85.14	0.70
		2437	0.64	0.74	86.49	0.63
		2452	0.64	0.74	86.49	0.63

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.38	8.48	98.82	0.11933	10Hz*
11g	1.39	1.5	92.67	0.71942	0.75KHz
11n20 SISO	1.29	1.4	92.14	0.77519	0.82KHz
11n40 SISO	1.29	1.4	92.14	0.77519	0.82KHz

*Duty cycle > 98% VBW setting=10Hz

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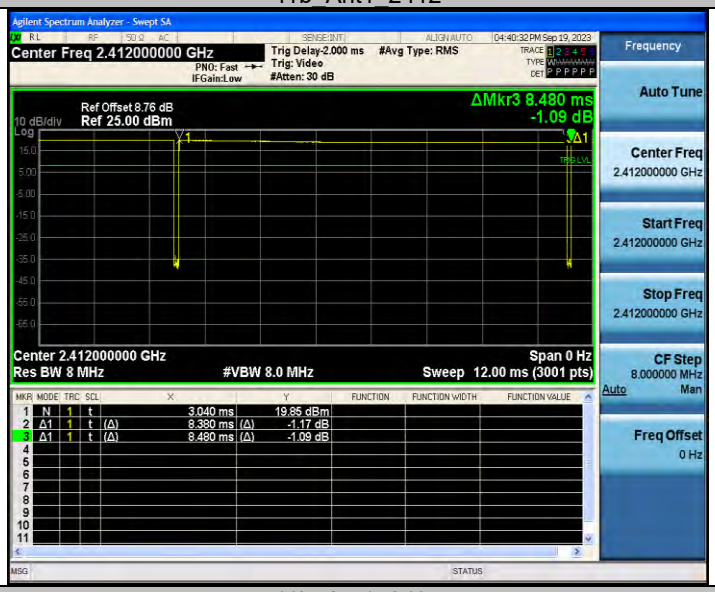
Test Graphs

11b_Ant1_2412



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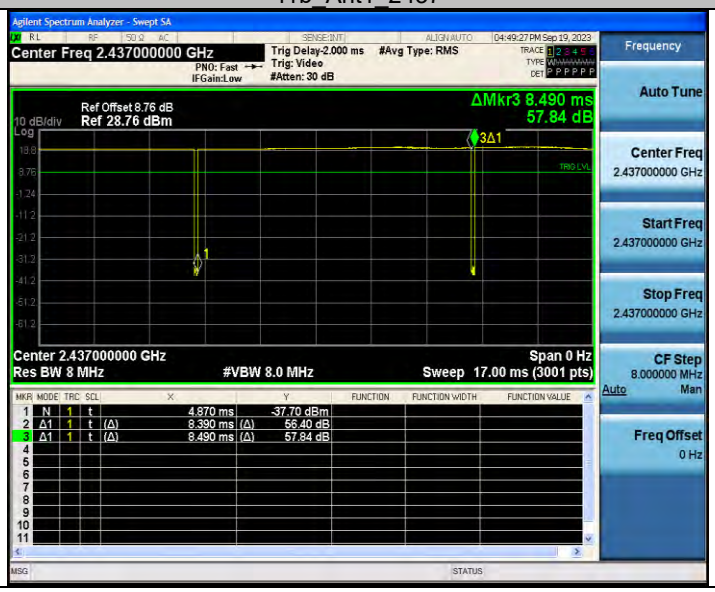

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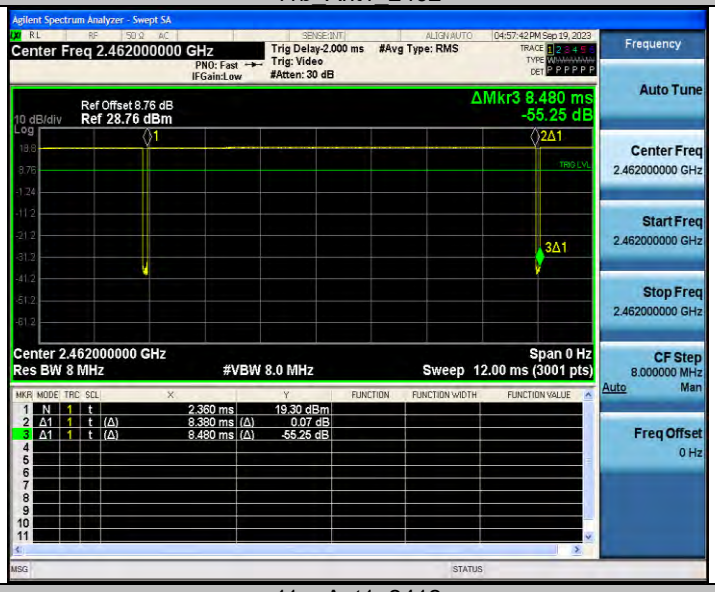
11b_Ant1_2462



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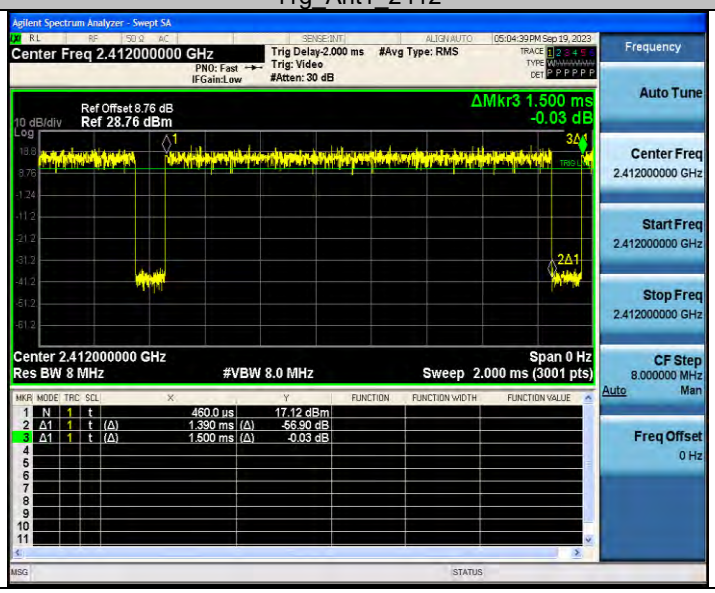

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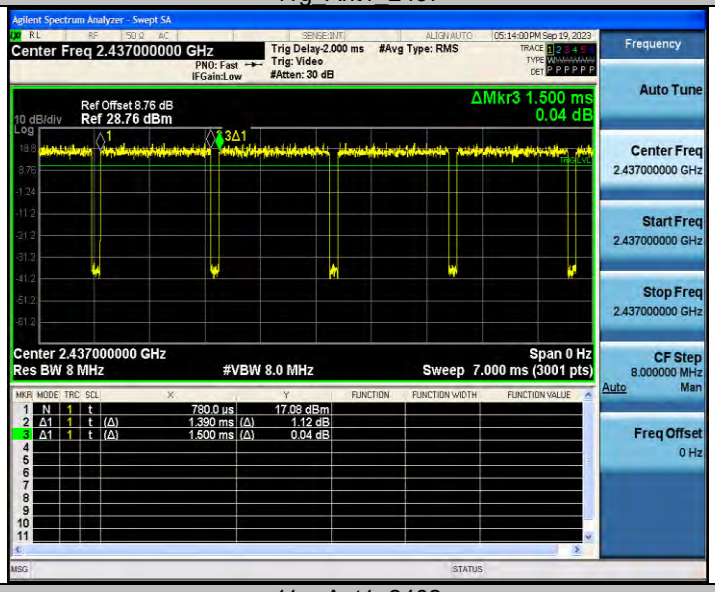

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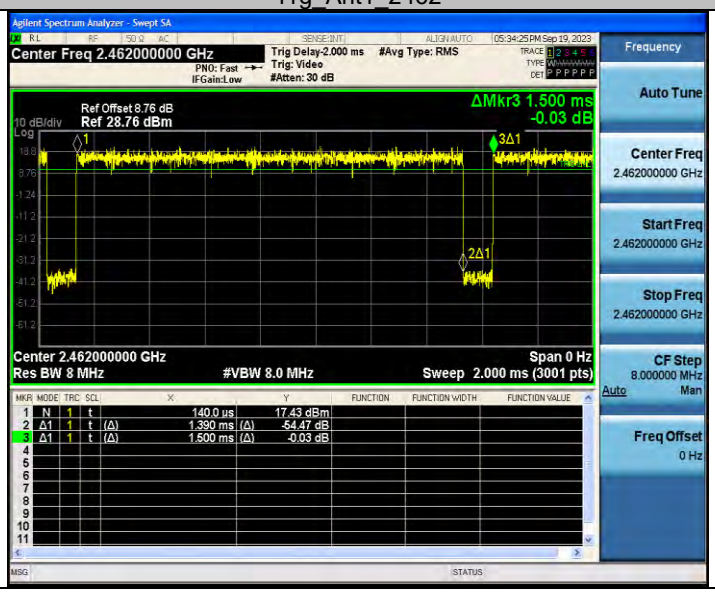

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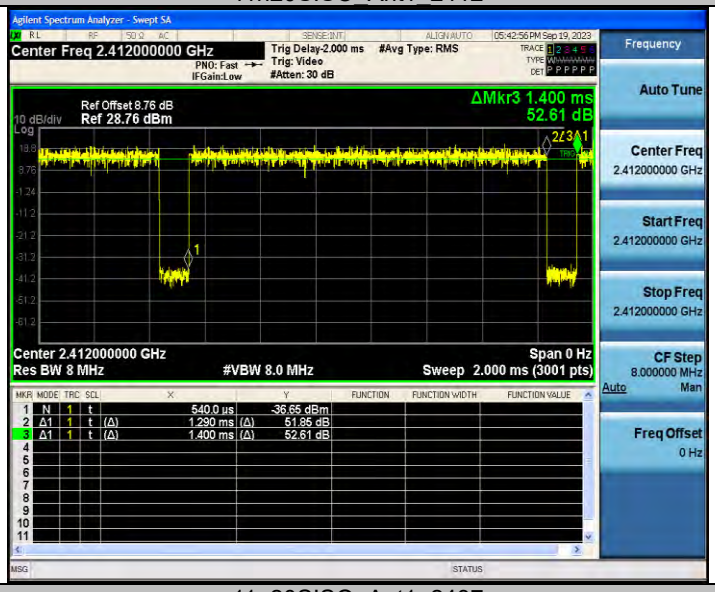

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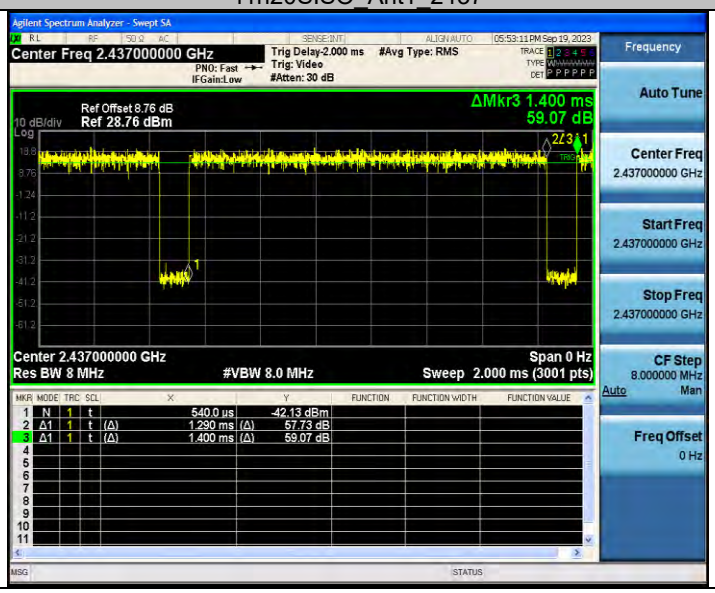

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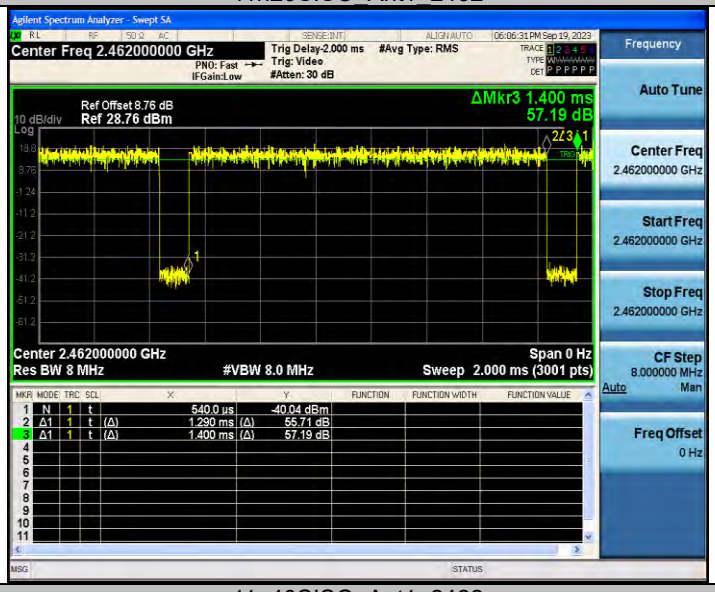

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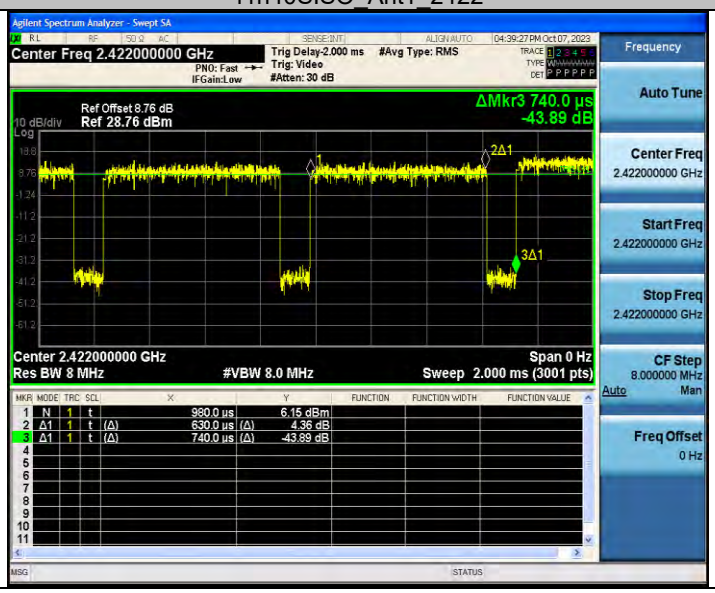

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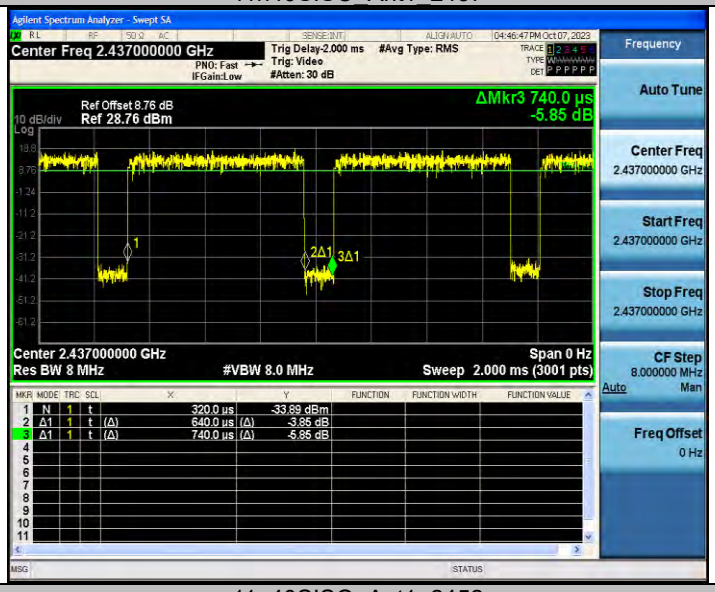

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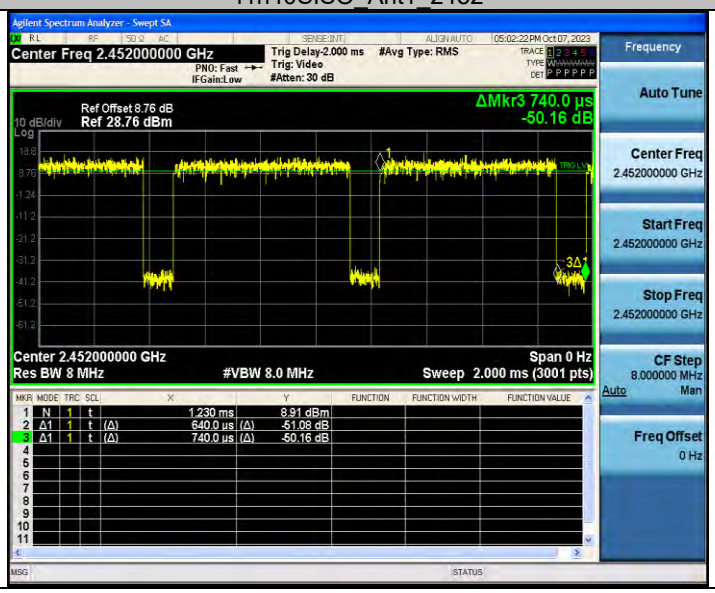

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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n20_Channel 11

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	92.5963	10.58	-27.48	42.44	25.54	43.50	17.96	Horizontal
2	143.0615	7.52	-26.53	53.65	34.64	43.50	8.86	Horizontal
3	197.4087	11.20	-26.41	44.11	28.90	43.50	14.60	Horizontal
4	238.6543	12.45	-26.31	51.29	37.43	46.00	8.57	Horizontal
5	341.5258	14.50	-25.79	43.97	32.68	46.00	13.32	Horizontal
6	722.9265	19.70	-24.43	33.58	28.85	46.00	17.15	Horizontal

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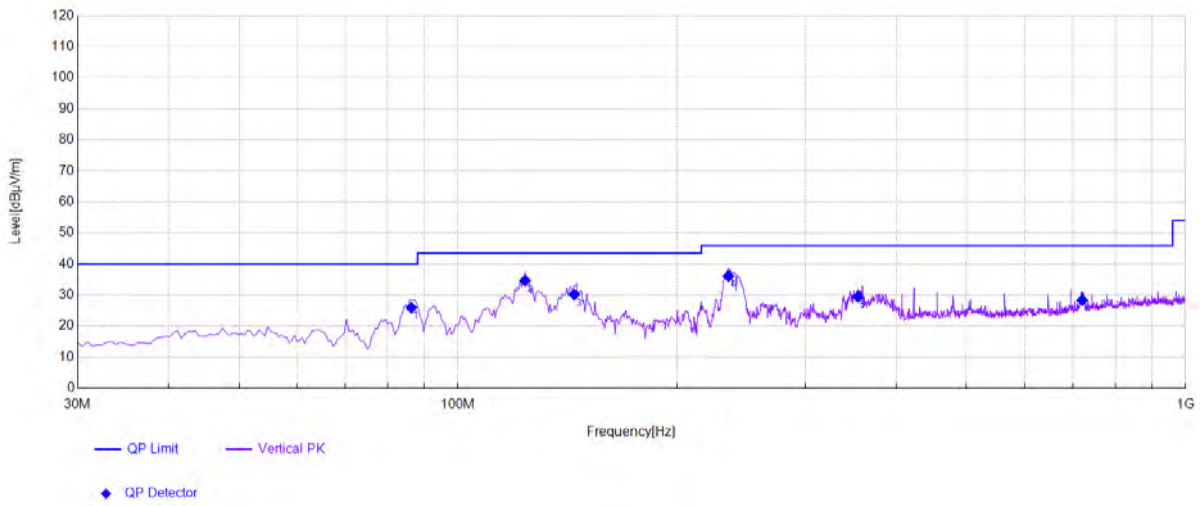

Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	86.2881	9.14	-27.47	44.29	25.96	40.00	14.04	Vertical
2	123.6518	8.73	-27.10	53.05	34.68	43.50	8.82	Vertical
3	144.5173	7.70	-26.57	49.06	30.19	43.50	13.31	Vertical
4	235.2576	12.31	-26.36	50.14	36.09	46.00	9.91	Vertical
5	354.6273	14.73	-25.66	40.39	29.46	46.00	16.54	Vertical
6	720.9855	19.70	-24.48	33.15	28.37	46.00	17.63	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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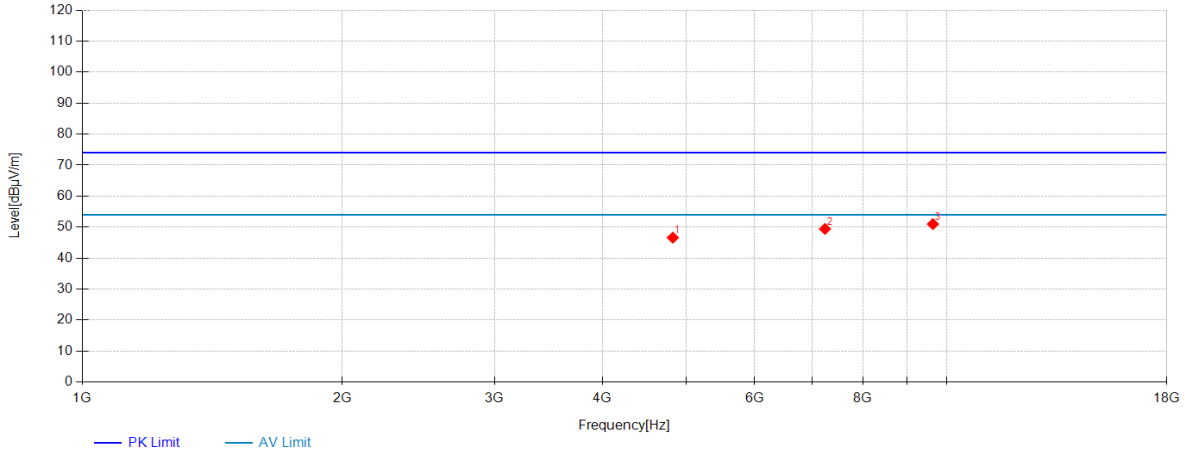
Transmitter emission Above 1GHz

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	58.83	30.70	-42.93	46.60	74.00	27.40	Horizontal
2	7236	51.80	36.38	-38.76	49.42	74.00	24.58	Horizontal
3	9648	48.86	38.09	-35.97	50.98	74.00	23.02	Horizontal

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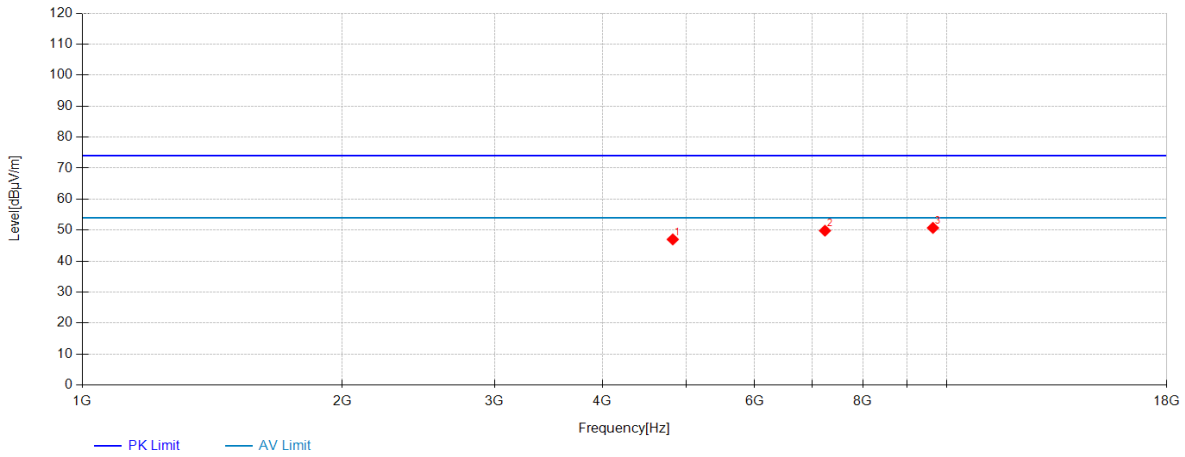
802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	59.24	30.70	-42.93	47.01	74.00	26.99	Vertical
2	7236	52.20	36.38	-38.76	49.82	74.00	24.18	Vertical
3	9648	48.61	38.09	-35.97	50.73	74.00	23.27	Vertical

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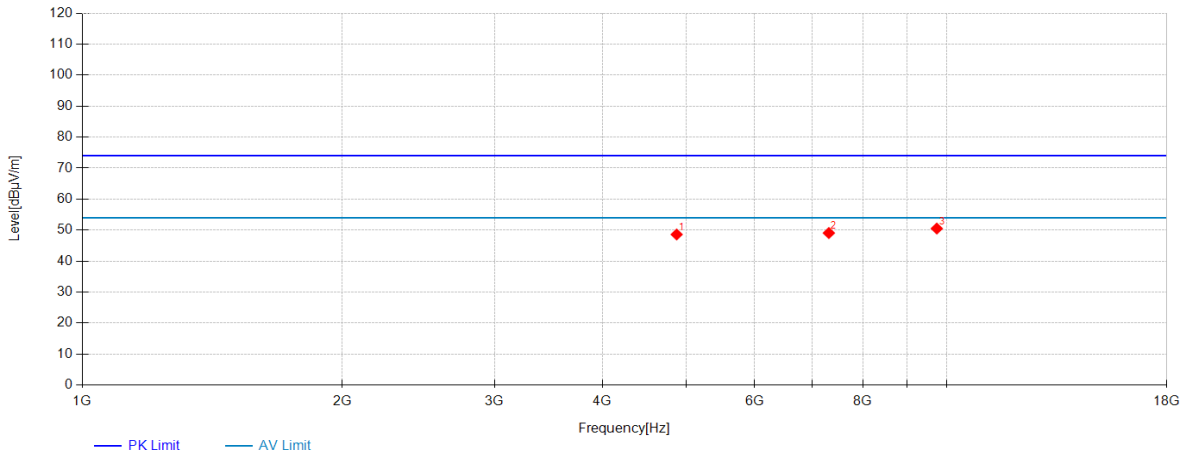
802.11b_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	60.76	30.74	-42.90	48.60	74.00	25.40	Horizontal
2	7311	51.46	36.42	-38.81	49.07	74.00	24.93	Horizontal
3	9748	48.25	38.30	-36.04	50.51	74.00	23.49	Horizontal

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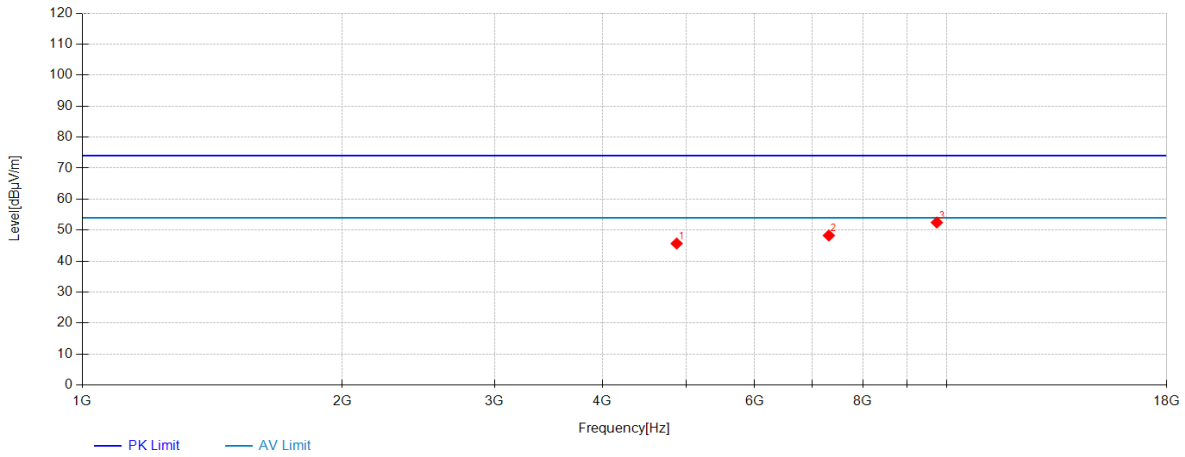
802.11b_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	57.83	30.74	-42.90	45.67	74.00	28.33	Vertical
2	7311	50.65	36.42	-38.81	48.26	74.00	25.74	Vertical
3	9748	50.20	38.30	-36.04	52.46	74.00	21.54	Vertical

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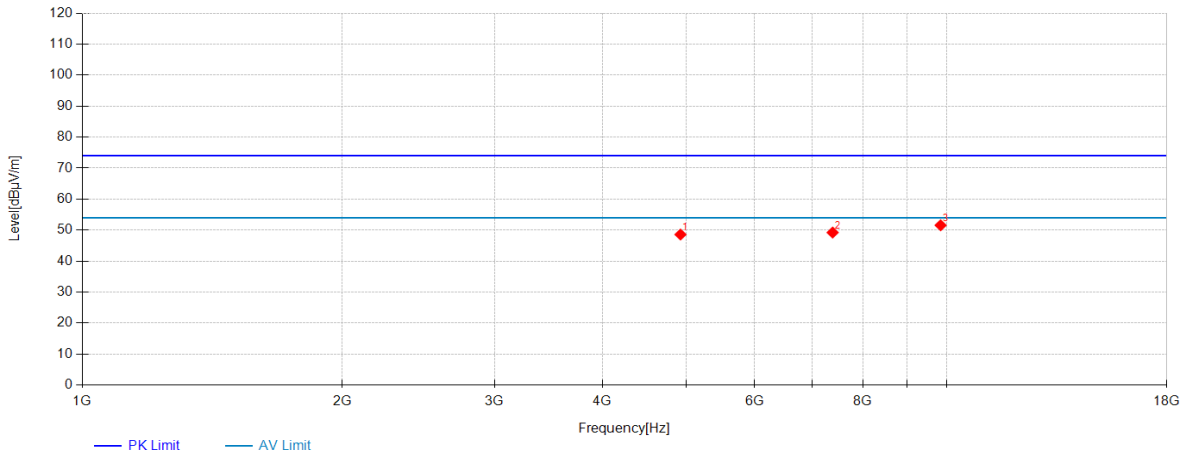
802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	60.48	30.95	-42.84	48.59	74.00	25.41	Horizontal
2	7386	50.95	36.64	-38.36	49.23	74.00	24.77	Horizontal
3	9848	48.71	38.21	-35.36	51.56	74.00	22.44	Horizontal

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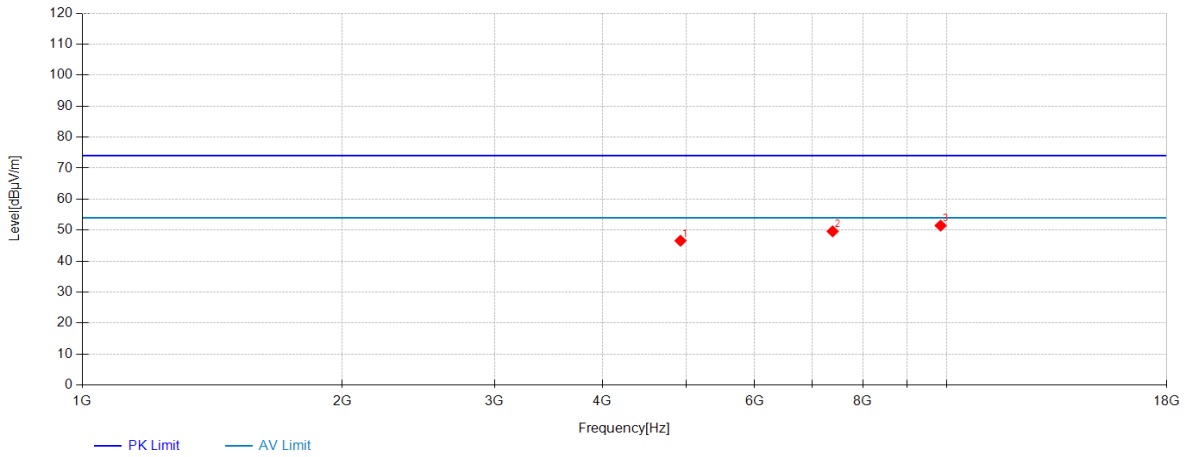
802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	58.47	30.95	-42.84	46.58	74.00	27.42	Vertical
2	7386	51.33	36.64	-38.36	49.61	74.00	24.39	Vertical
3	9848	48.61	38.21	-35.36	51.46	74.00	22.54	Vertical

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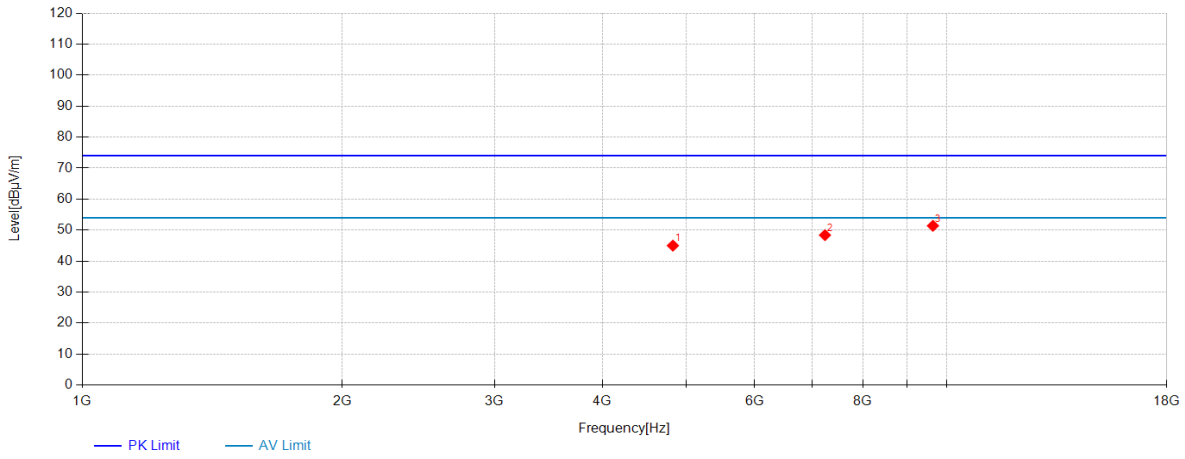
802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4825	57.24	30.70	-42.93	45.01	74.00	28.99	Horizontal
2	7236	50.77	36.38	-38.76	48.39	74.00	25.61	Horizontal
3	9648	49.28	38.09	-35.97	51.40	74.00	22.60	Horizontal

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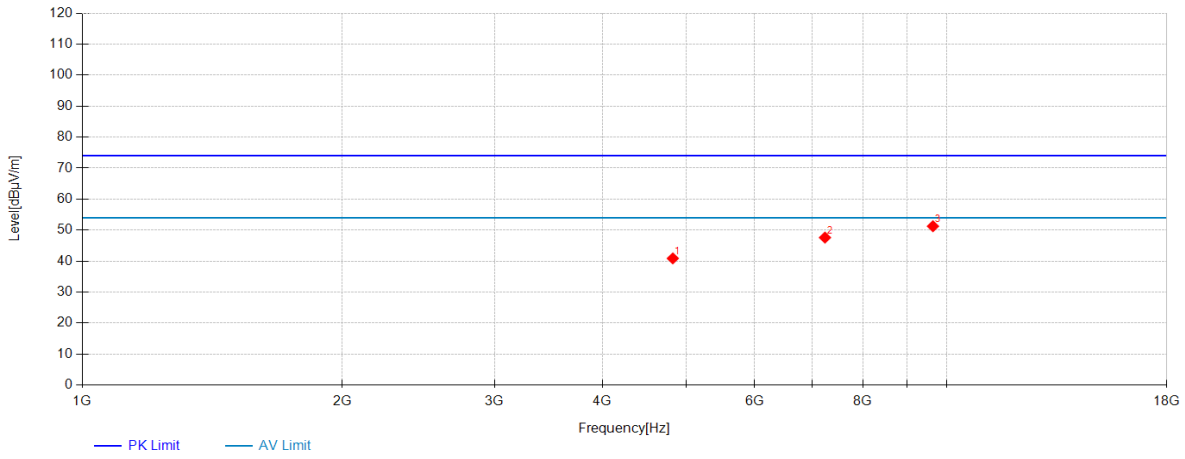

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	53.12	30.70	-42.93	40.89	74.00	33.11	Vertical
2	7236	49.98	36.38	-38.76	47.60	74.00	26.40	Vertical
3	9648	49.13	38.09	-35.97	51.25	74.00	22.75	Vertical

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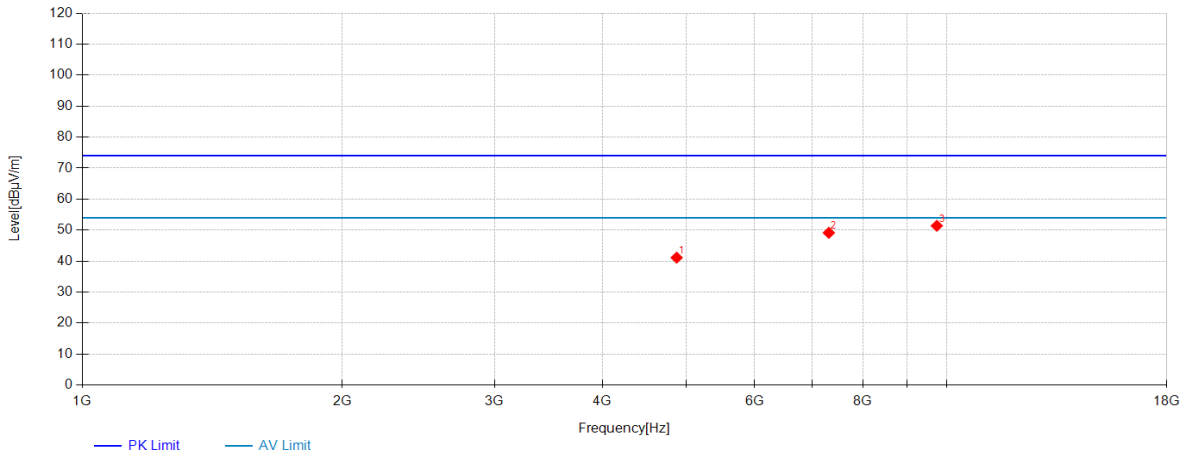
802.11g_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	53.29	30.74	-42.90	41.13	74.00	32.87	Horizontal
2	7311	51.53	36.42	-38.81	49.14	74.00	24.86	Horizontal
3	9748	49.14	38.30	-36.04	51.40	74.00	22.60	Horizontal

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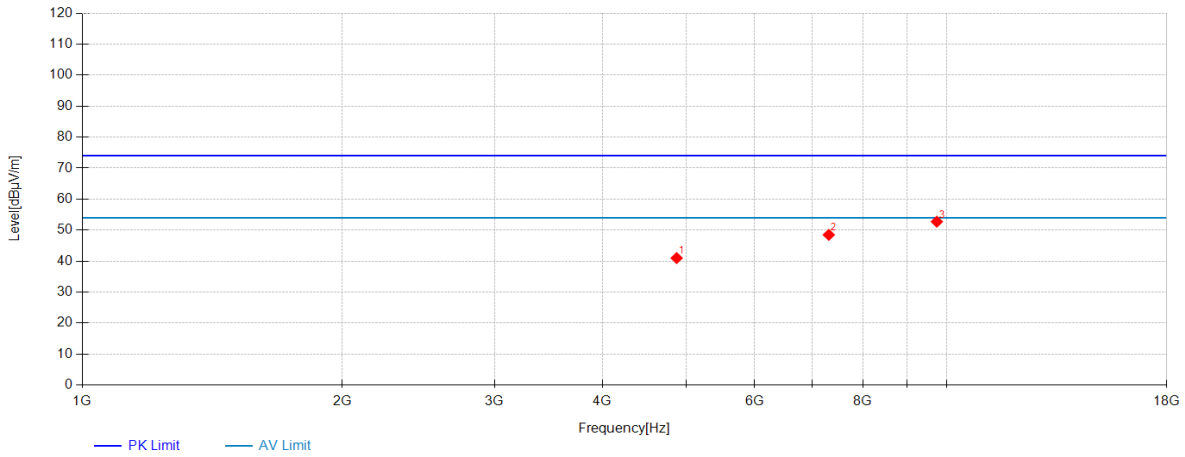

Data List								
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1	4874	53.16	30.74	-42.90	41.00	74.00	33.00	Vertical
2	7311	50.87	36.42	-38.81	48.48	74.00	25.52	Vertical
3	9748	50.47	38.30	-36.04	52.73	74.00	21.27	Vertical

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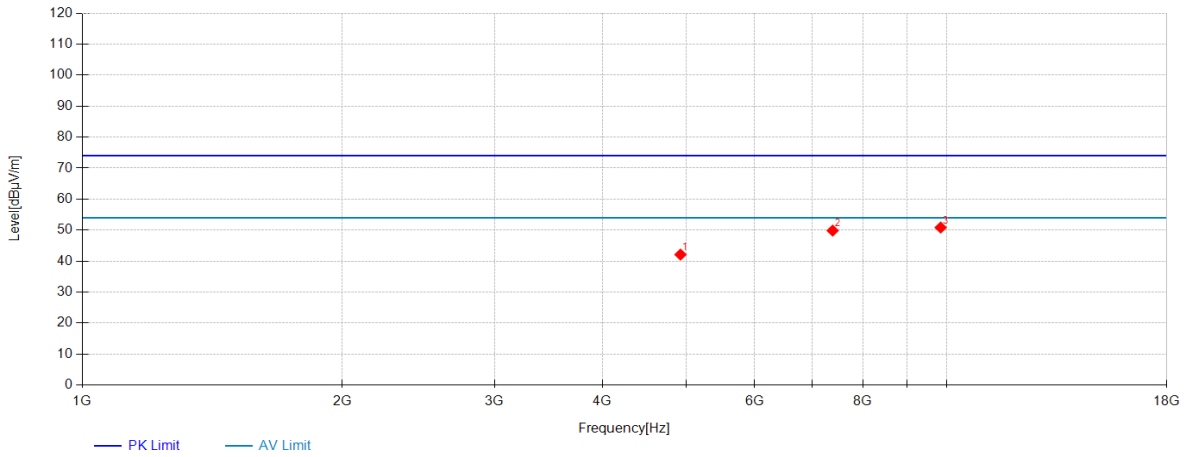

Data List								
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1	4924	54.00	30.95	-42.84	42.11	74.00	31.89	Horizontal
2	7386	51.57	36.64	-38.36	49.85	74.00	24.15	Horizontal
3	9848	47.99	38.21	-35.36	50.84	74.00	23.16	Horizontal

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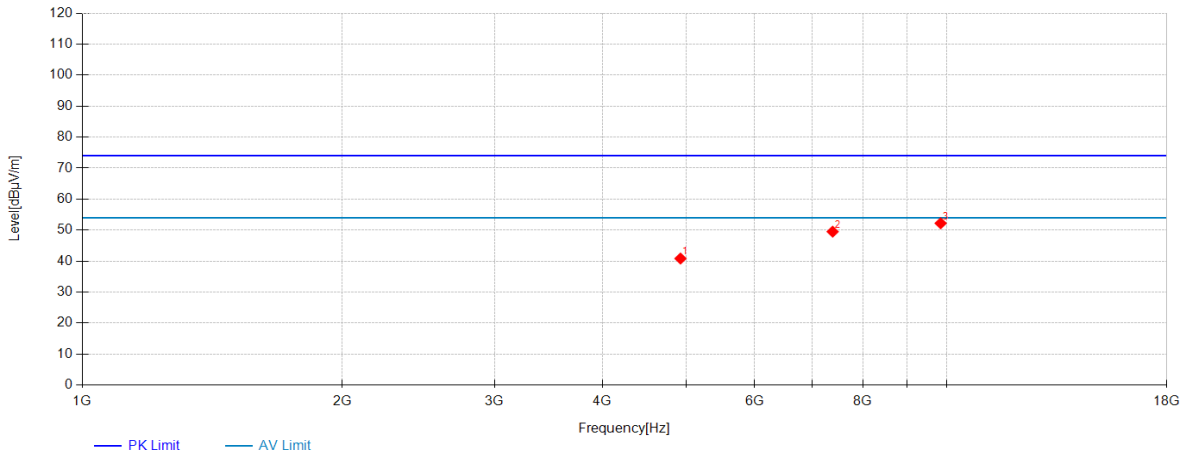

Data List								
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1	4924	52.74	30.95	-42.84	40.85	74.00	33.15	Vertical
2	7386	51.23	36.64	-38.36	49.51	74.00	24.49	Vertical
3	9848	49.36	38.21	-35.36	52.21	74.00	21.79	Vertical

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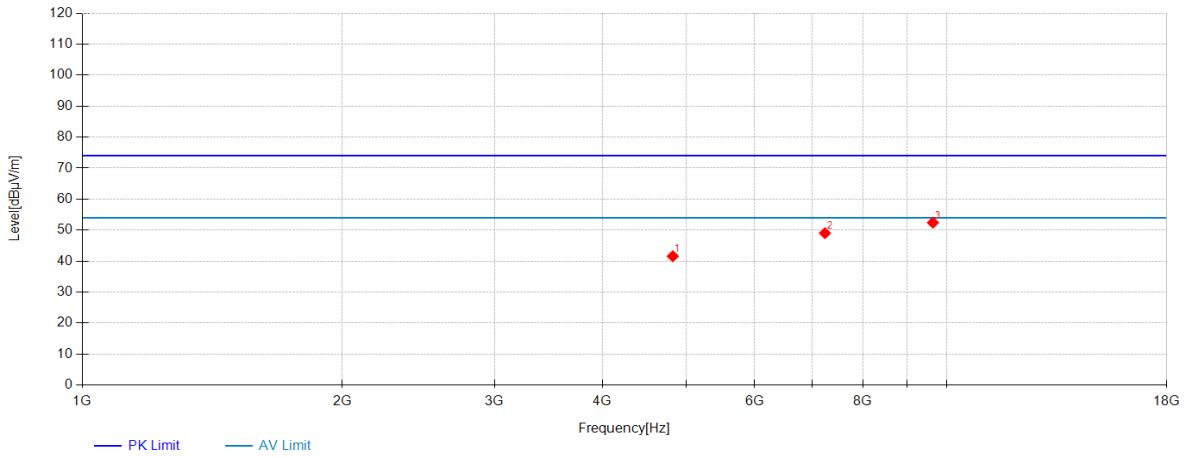

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	53.81	30.70	-42.93	41.58	74.00	32.42	Horizontal
2	7236	51.39	36.38	-38.76	49.01	74.00	24.99	Horizontal
3	9648	50.31	38.09	-35.97	52.43	74.00	21.57	Horizontal

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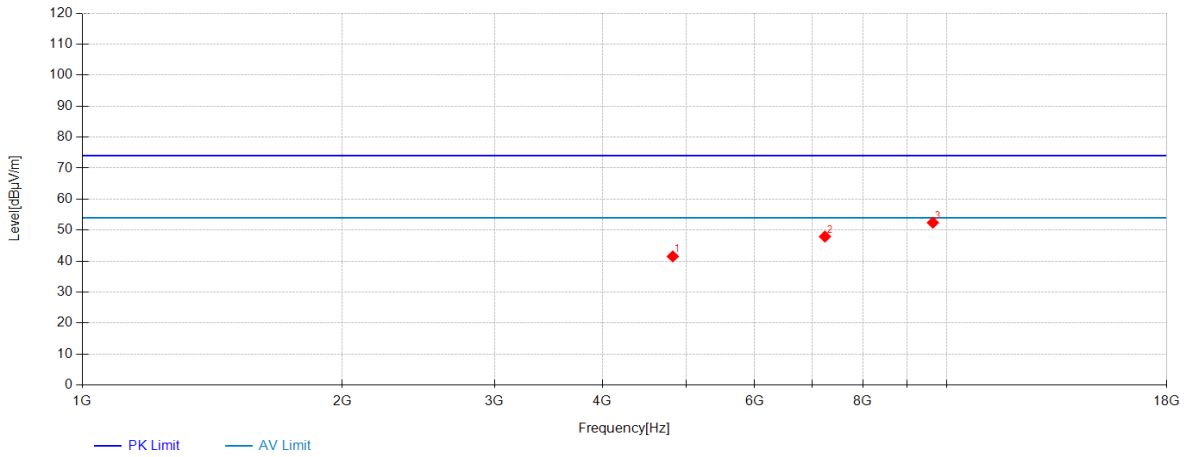

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4824	53.76	30.70	-42.93	41.53	74.00	32.47	Vertical
2	7236	50.31	36.38	-38.76	47.93	74.00	26.07	Vertical
3	9648	50.29	38.09	-35.97	52.41	74.00	21.59	Vertical

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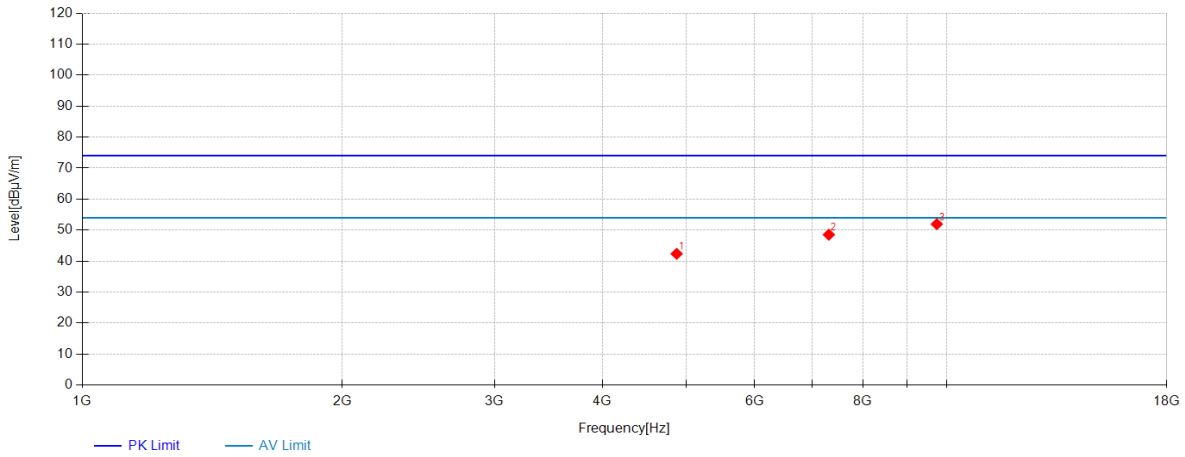

Data List								
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1	4874	54.53	30.74	-42.90	42.37	74.00	31.63	Horizontal
2	7311	50.93	36.42	-38.81	48.54	74.00	25.46	Horizontal
3	9748	49.68	38.30	-36.04	51.94	74.00	22.06	Horizontal

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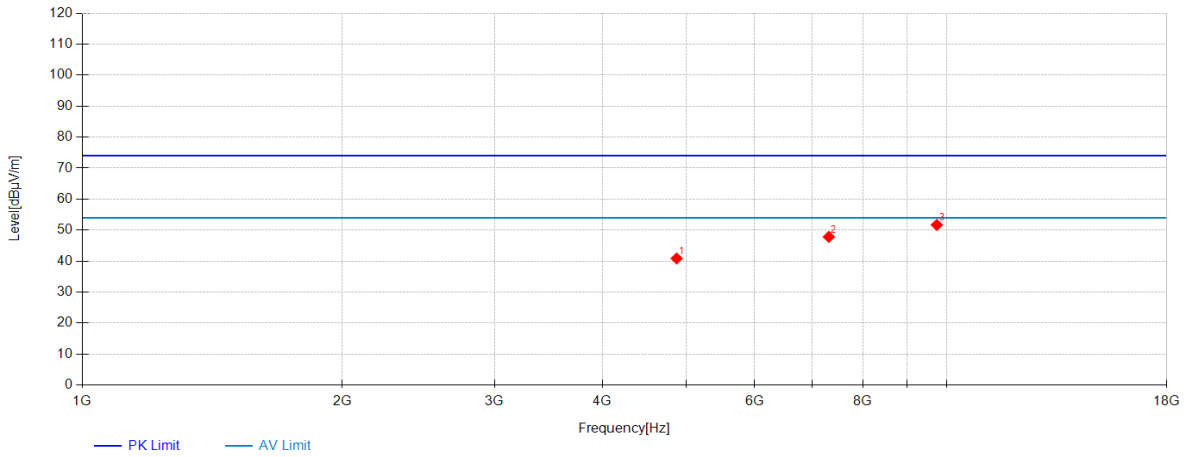

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	53.02	30.74	-42.90	40.86	74.00	33.14	Vertical
2	7311	50.22	36.42	-38.81	47.83	74.00	26.17	Vertical
3	9748	49.43	38.30	-36.04	51.69	74.00	22.31	Vertical

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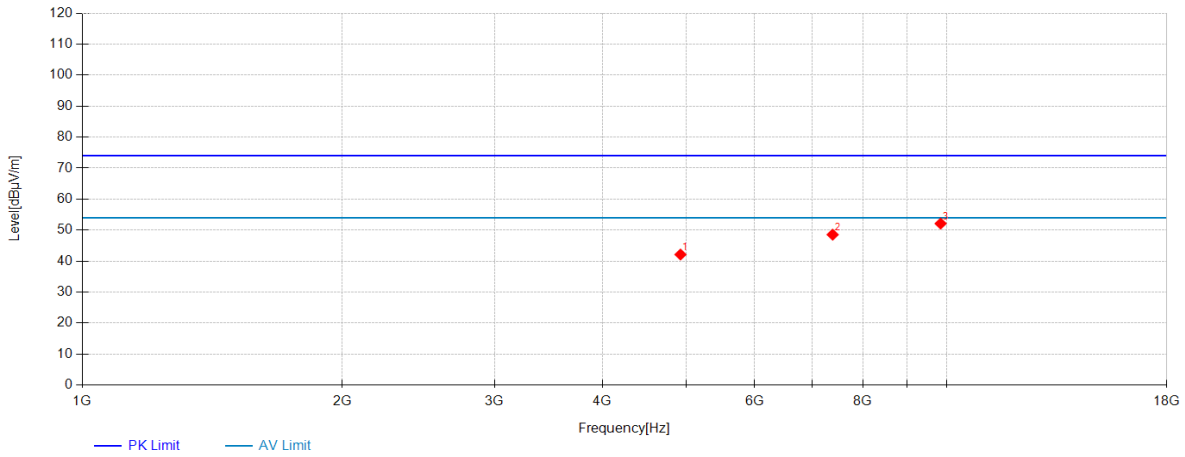

Data List								
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1	4924	54.02	30.95	-42.84	42.13	74.00	31.87	Horizontal
2	7386	50.26	36.64	-38.36	48.54	74.00	25.46	Horizontal
3	9848	49.27	38.21	-35.36	52.12	74.00	21.88	Horizontal

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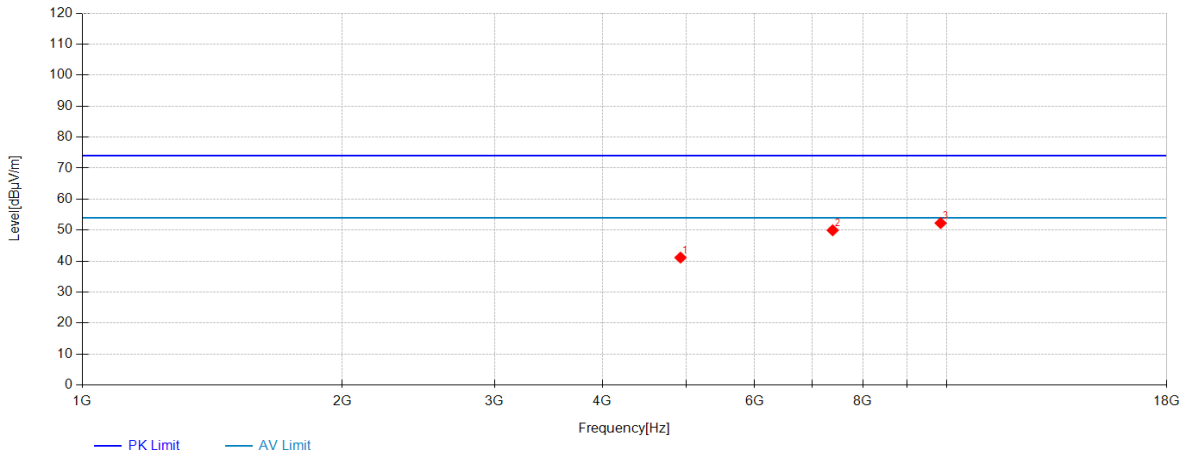

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	53.04	30.95	-42.84	41.15	74.00	32.85	Vertical
2	7386	51.67	36.64	-38.36	49.95	74.00	24.05	Vertical
3	9848	49.42	38.21	-35.36	52.27	74.00	21.73	Vertical

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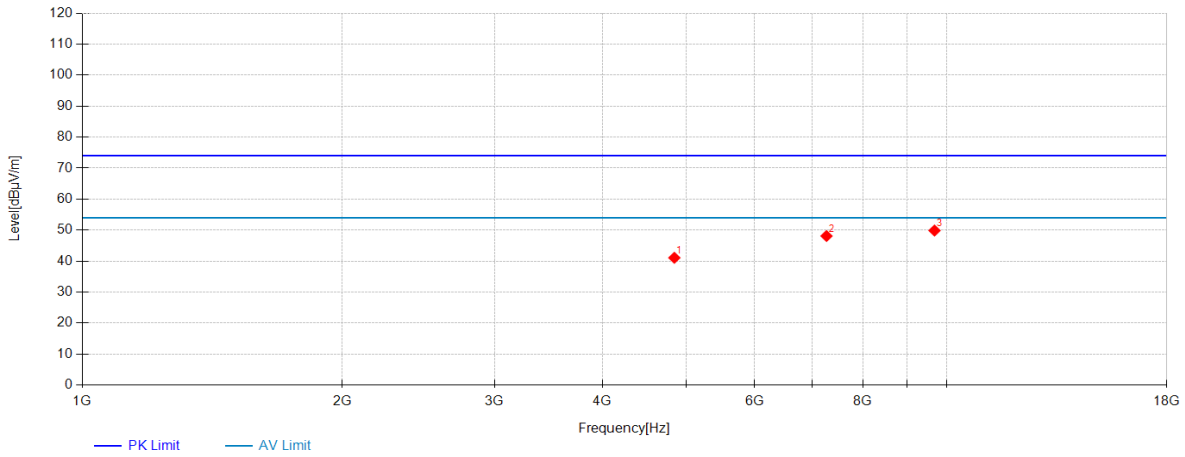

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4844	53.38	30.62	-42.92	41.08	74.00	32.92	Horizontal
2	7266	50.59	36.33	-38.82	48.10	74.00	25.90	Horizontal
3	9688	47.94	38.18	-36.25	49.87	74.00	24.13	Horizontal

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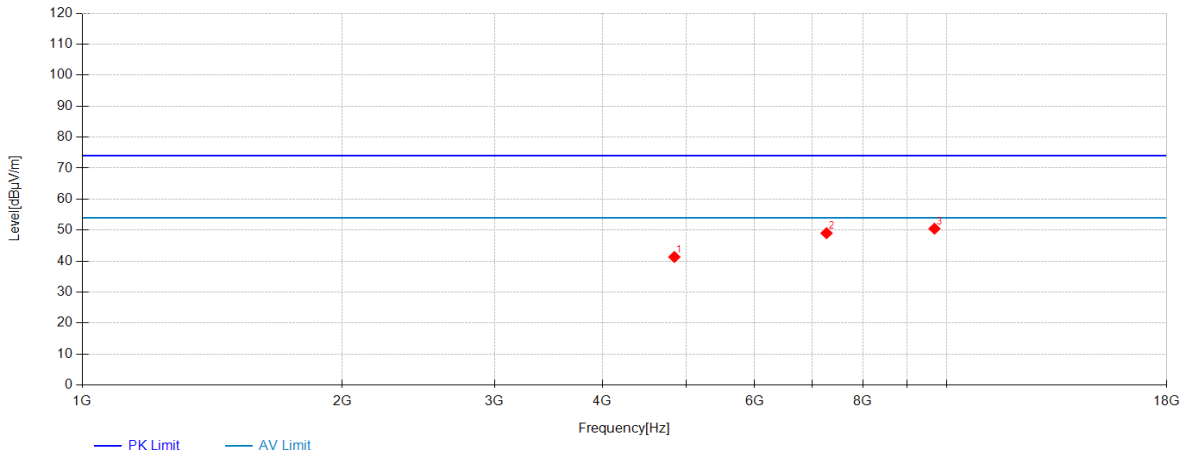
802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4844	53.65	30.62	-42.92	41.35	74.00	32.65	Vertical
2	7266	51.51	36.33	-38.82	49.02	74.00	24.98	Vertical
3	9688	48.53	38.18	-36.25	50.46	74.00	23.54	Vertical

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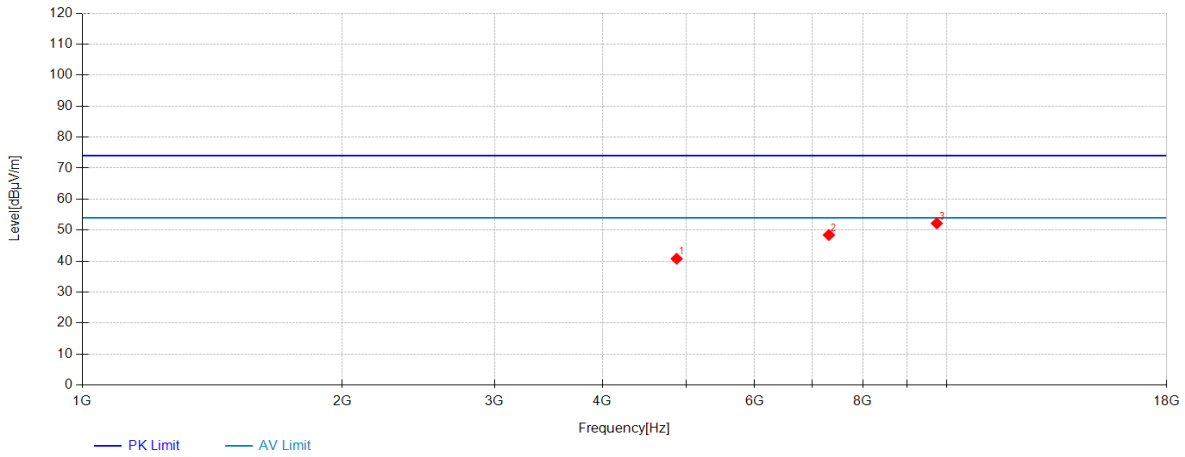
802.11n40_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	52.93	30.74	-42.90	40.77	74.00	33.23	Horizontal
2	7311	50.82	36.42	-38.81	48.43	74.00	25.57	Horizontal
3	9748	49.93	38.30	-36.04	52.19	74.00	21.81	Horizontal

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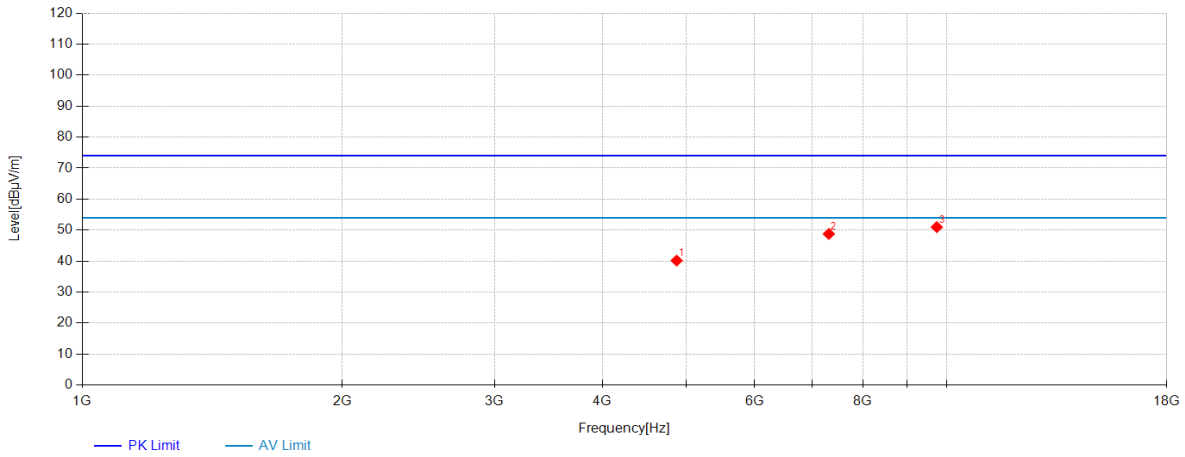
802.11n40_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	52.34	30.74	-42.90	40.18	74.00	33.82	Vertical
2	7311	51.17	36.42	-38.81	48.78	74.00	25.22	Vertical
3	9748	48.72	38.30	-36.04	50.98	74.00	23.02	Vertical

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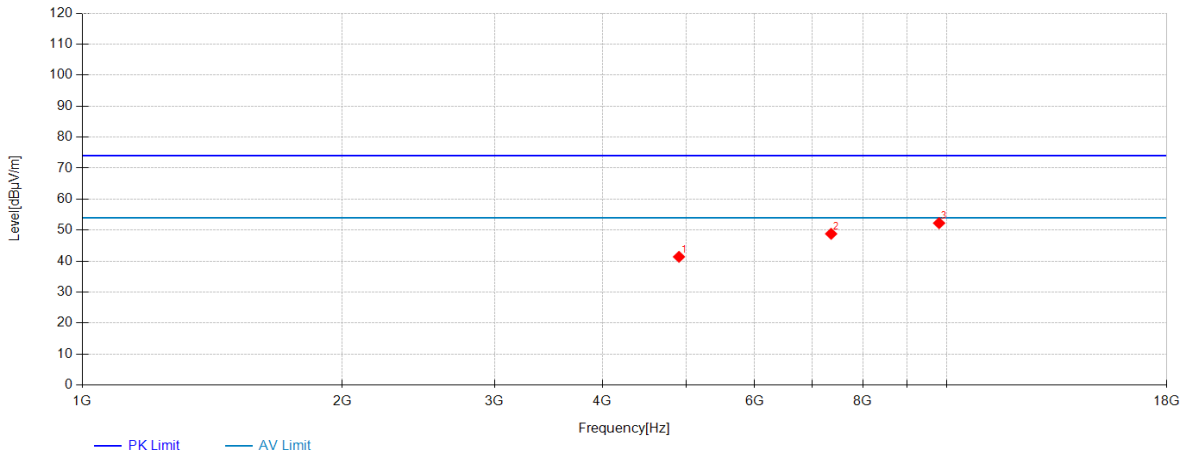
802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4904	53.36	30.91	-42.87	41.40	74.00	32.60	Horizontal
2	7356	50.83	36.52	-38.54	48.81	74.00	25.19	Horizontal
3	9808	49.48	38.45	-35.67	52.26	74.00	21.74	Horizontal

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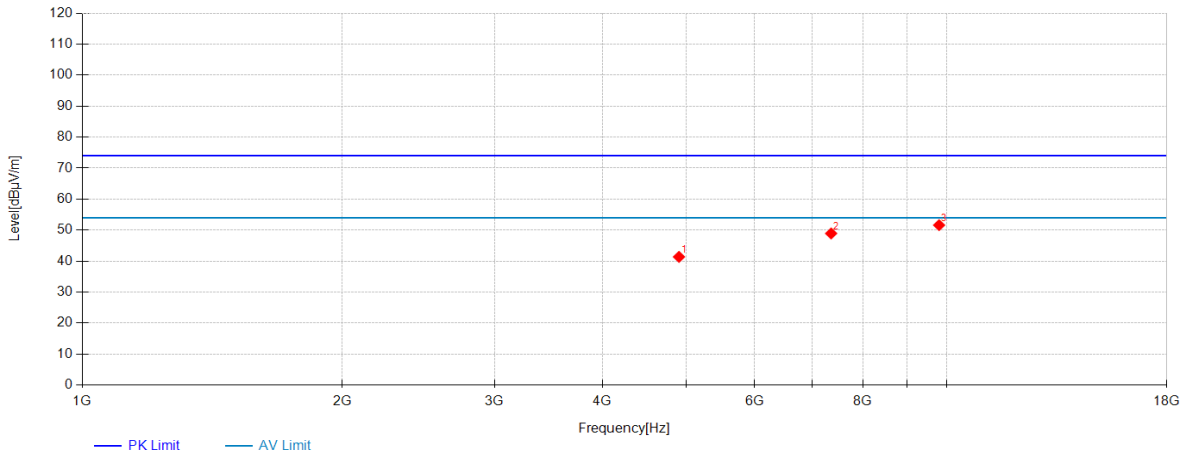
802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4904	53.34	30.91	-42.87	41.38	74.00	32.62	Vertical
2	7356	50.95	36.52	-38.54	48.93	74.00	25.07	Vertical
3	9808	48.82	38.45	-35.67	51.60	74.00	22.40	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:
   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.
3) Both peak and average measured complies with the limit line, so test result is "PASS"

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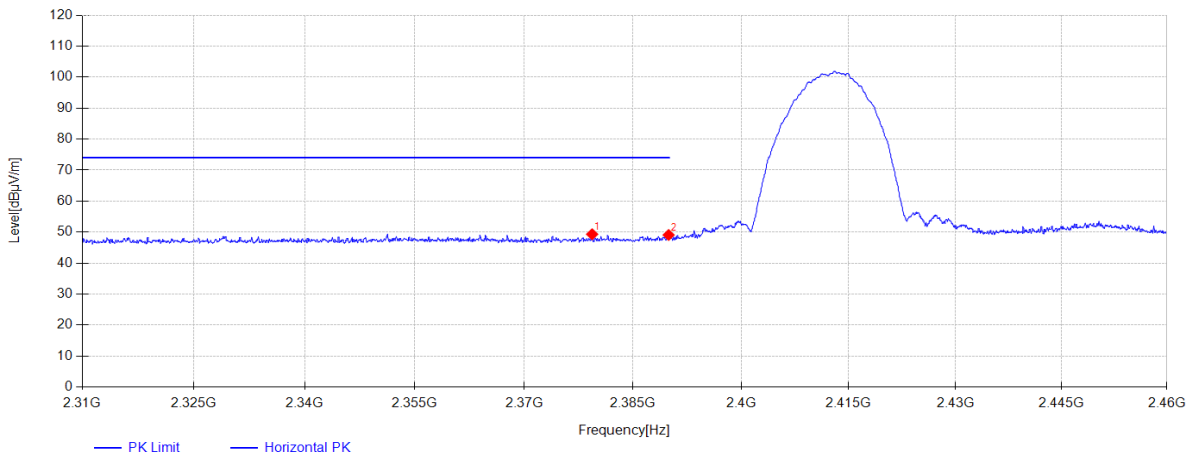
Restricted bands around fundamental frequency

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2379.3347	40.22	27.48	-18.38	49.32	74.00	24.68	Horizontal
2	2389.915	39.80	27.44	-18.15	49.09	74.00	24.91	Horizontal

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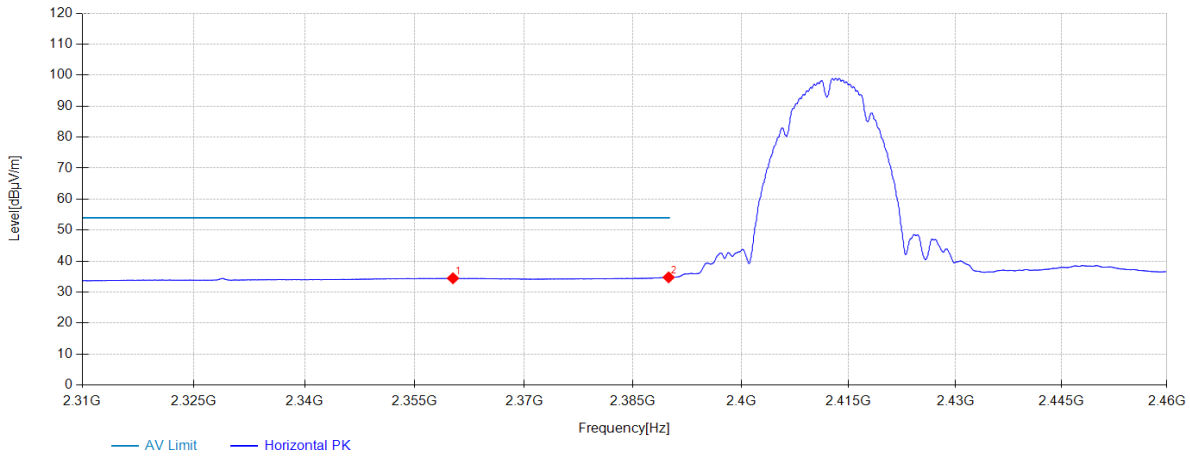
802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2360.2001	25.15	27.56	-18.24	34.47	54.00	19.53	Horizontal
2	2389.915	25.49	27.44	-18.15	34.78	54.00	19.22	Horizontal

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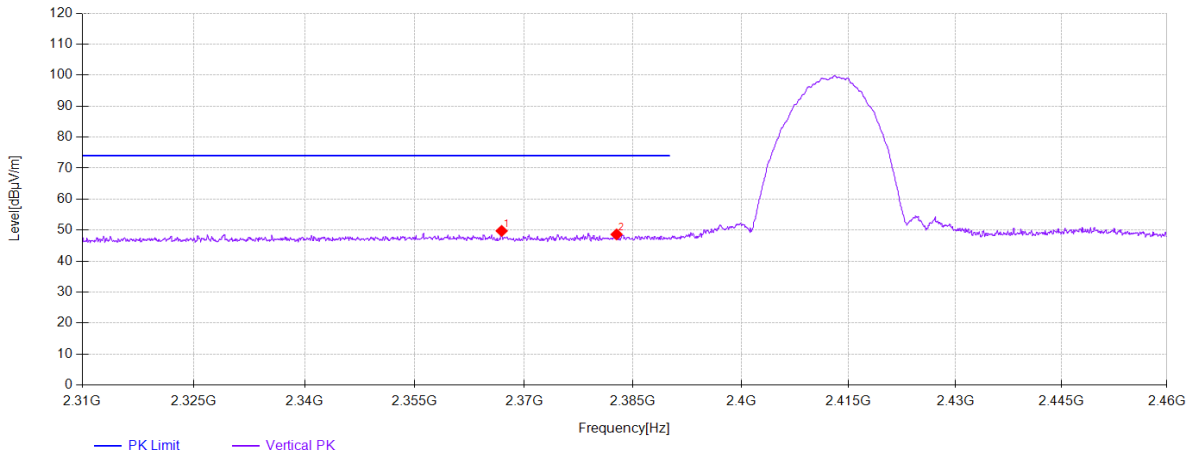
802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2366.8784	40.62	27.53	-18.41	49.74	74.00	24.26	Vertical
2	2382.7114	39.47	27.47	-18.31	48.63	74.00	25.37	Vertical

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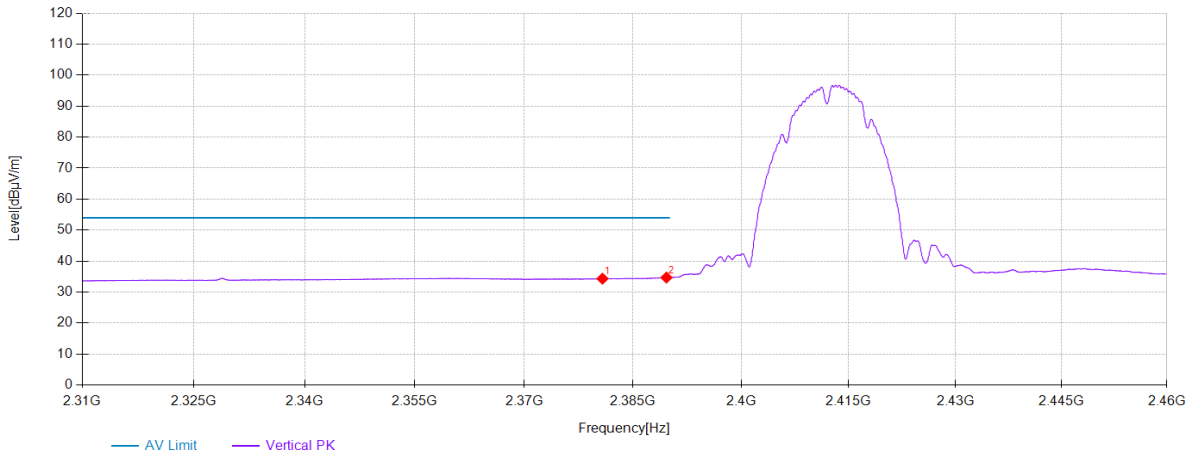
802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2380.7604	25.21	27.48	-18.35	34.34	54.00	19.66	Vertical
2	2389.6148	25.42	27.44	-18.16	34.70	54.00	19.30	Vertical

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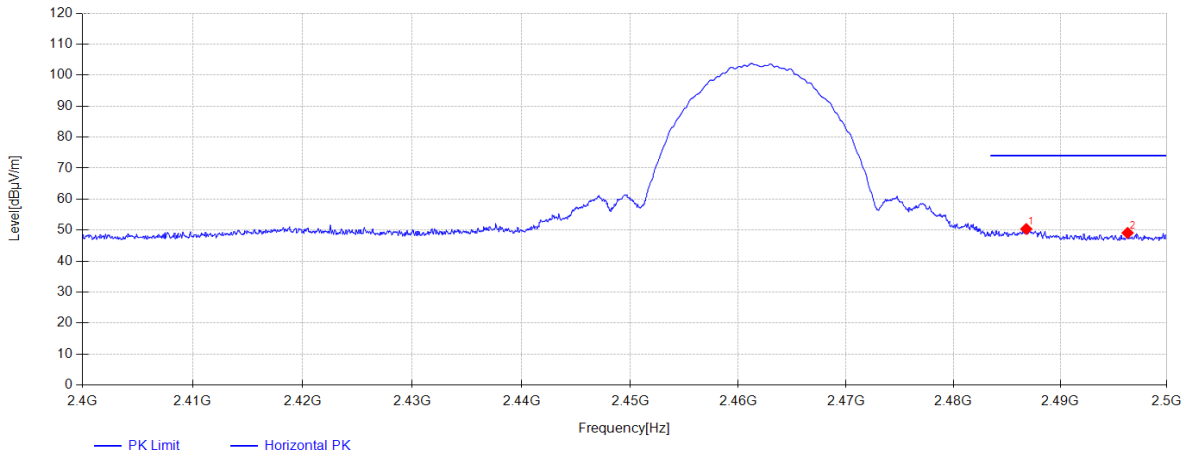
802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2486.7934	40.79	27.75	-18.17	50.37	74.00	23.63	Horizontal
2	2496.2981	39.55	27.79	-18.24	49.10	74.00	24.90	Horizontal

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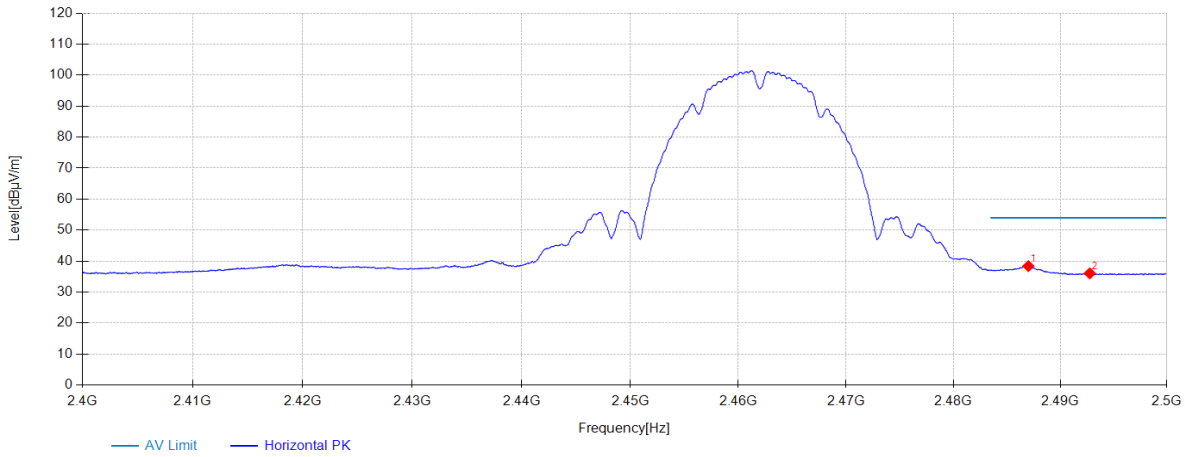

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2	2492.7464	26.49	27.77	-18.19	36.07	54.00	17.93	Horizontal

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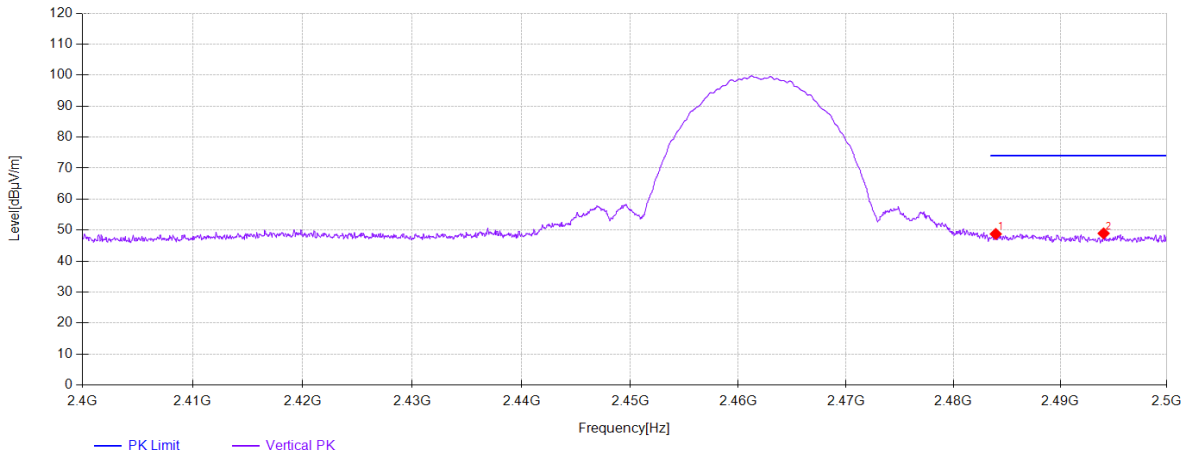

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2	2494.047	39.38	27.78	-18.21	48.95	74.00	25.05	Vertical

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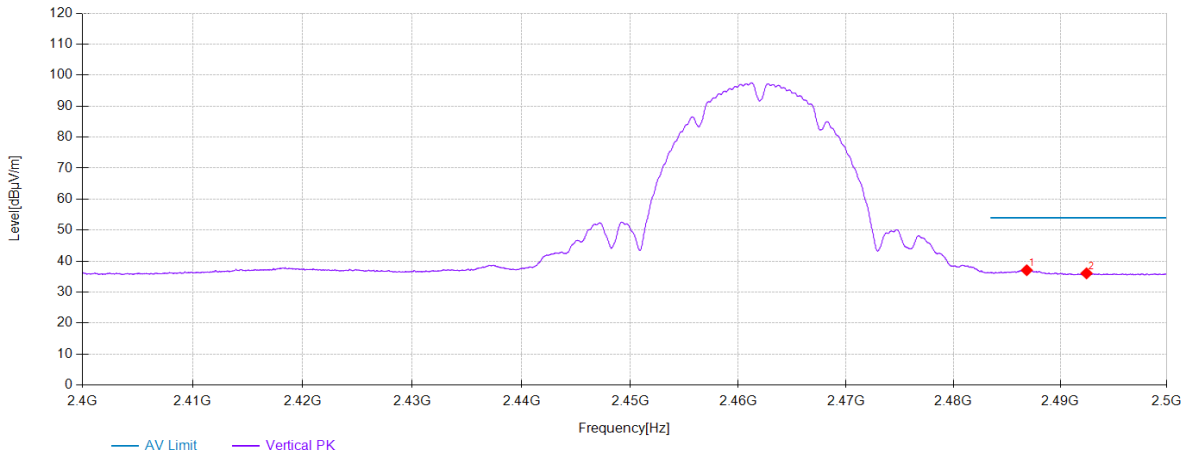

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1	2486.8434	27.48	27.75	-18.17	37.06	54.00	16.94	Vertical
2	2492.4462	26.48	27.77	-18.19	36.06	54.00	17.94	Vertical

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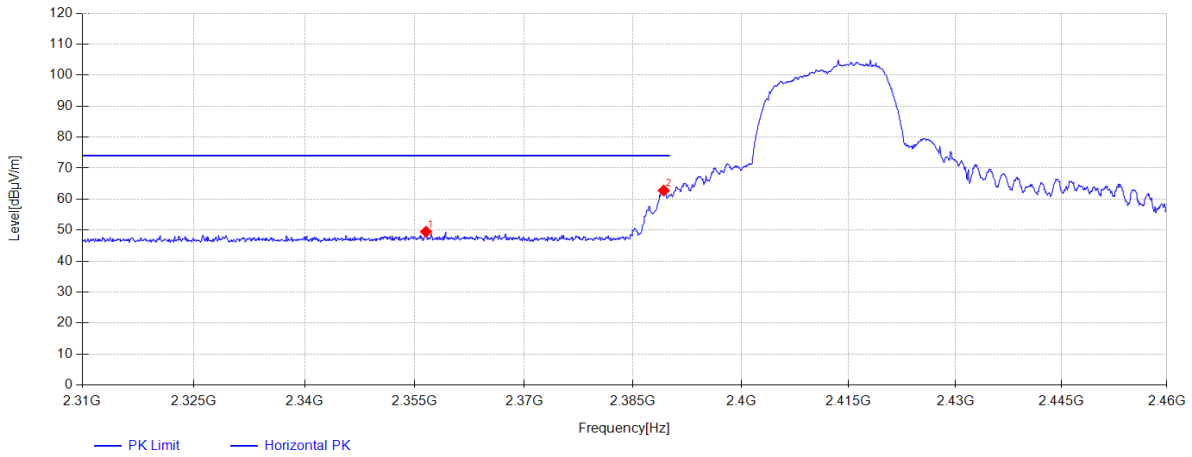

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1	2356.5233	40.24	27.57	-18.32	49.49	74.00	24.51	Horizontal
2	2389.2396	53.49	27.44	-18.17	62.76	74.00	11.24	Horizontal

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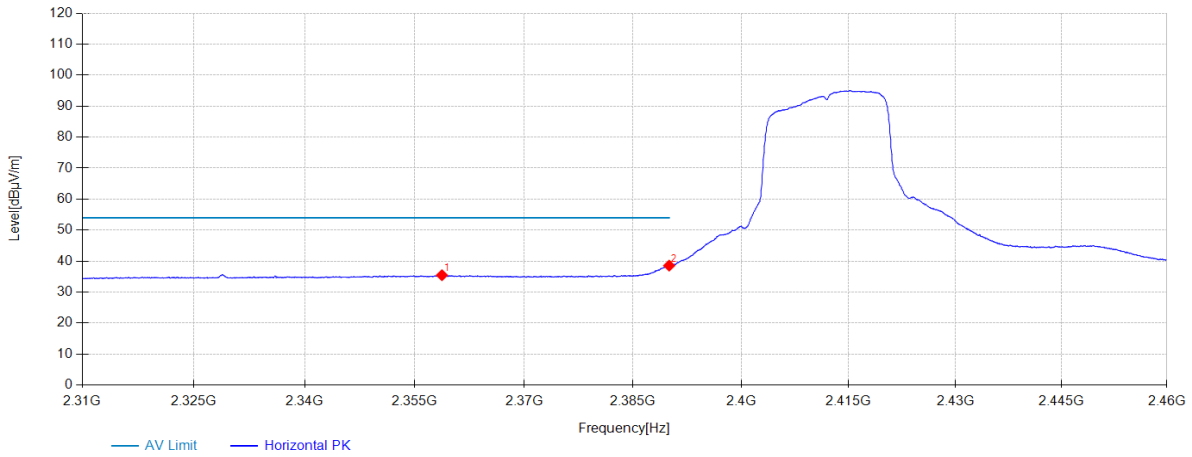

Data List								
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1	2358.6994	26.15	27.57	-18.26	35.46	54.00	18.54	Horizontal
2	2389.99	29.26	27.44	-18.15	38.55	54.00	15.45	Horizontal

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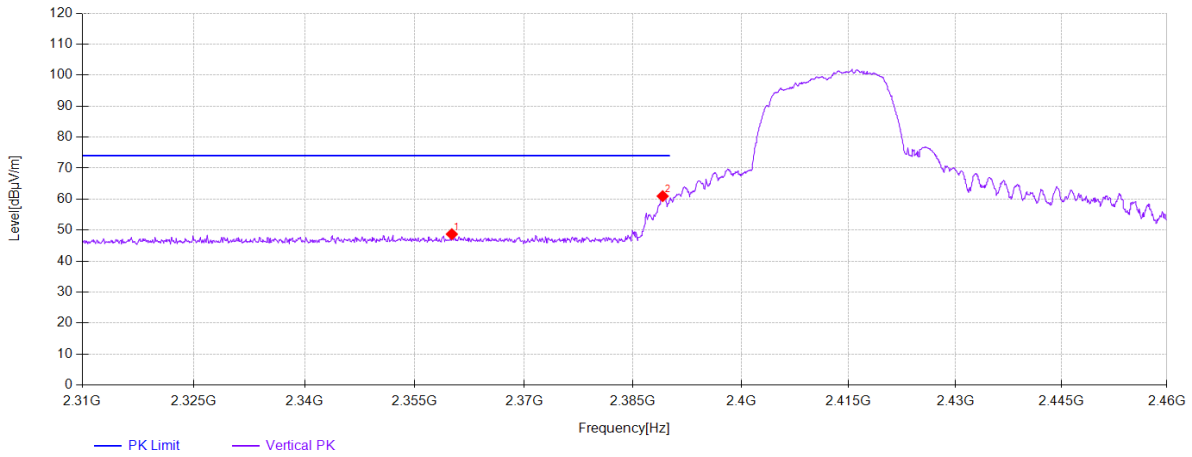

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1	2360.05	39.38	27.56	-18.23	48.71	74.00	25.29	Vertical
2	2389.0895	51.69	27.44	-18.17	60.96	74.00	13.04	Vertical

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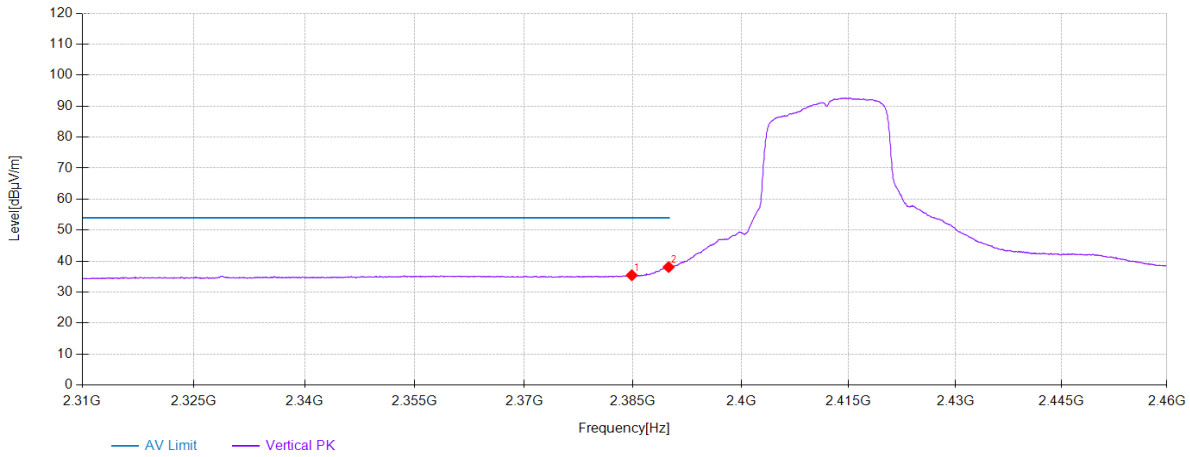

Data List								
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1	2384.8124	26.23	27.46	-18.26	35.43	54.00	18.57	Vertical
2	2389.915	28.79	27.44	-18.15	38.08	54.00	15.92	Vertical

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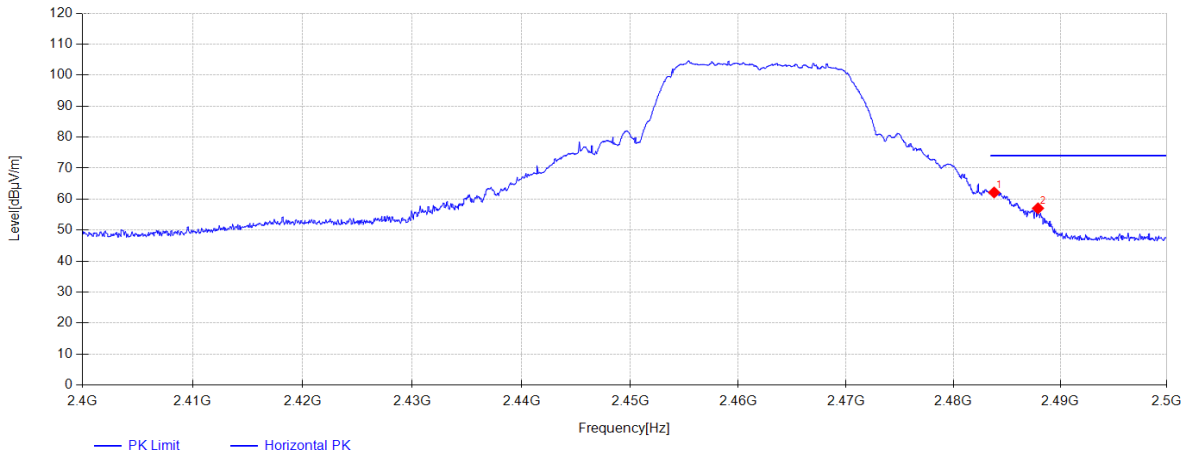

Data List								
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1	2483.7919	52.59	27.74	-18.18	62.15	74.00	11.85	Horizontal
2	2487.8939	47.45	27.75	-18.17	57.03	74.00	16.97	Horizontal

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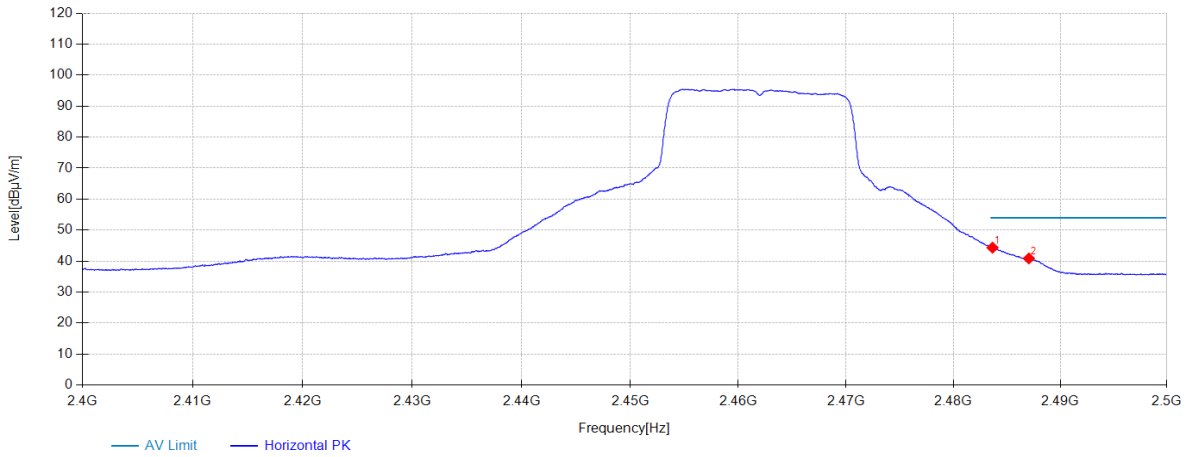

Data List								
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1	2483.6418	34.81	27.73	-18.19	44.35	54.00	9.65	Horizontal
2	2487.0435	31.29	27.75	-18.17	40.87	54.00	13.13	Horizontal

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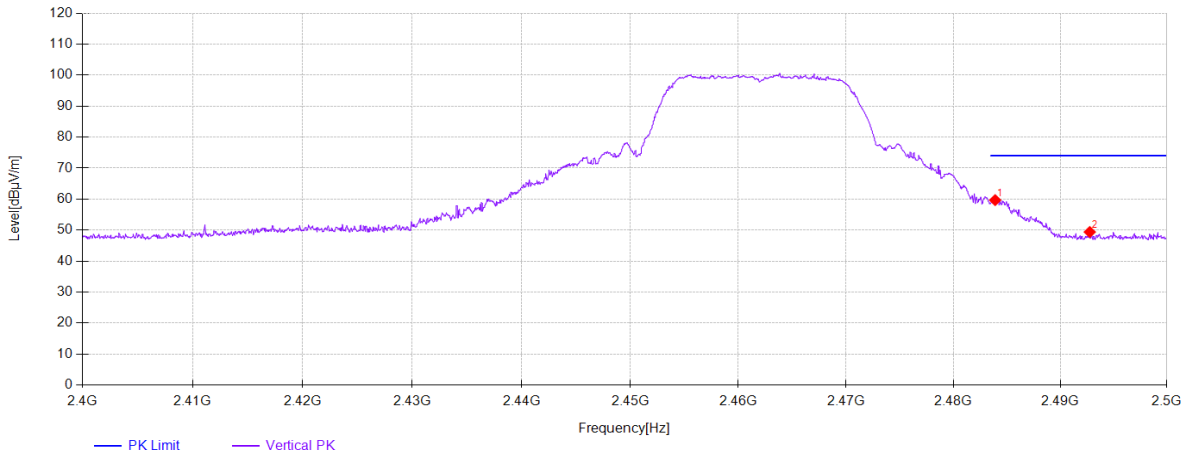

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1	2483.8919	50.12	27.74	-18.18	59.68	74.00	14.32	Vertical
2	2492.7464	39.82	27.77	-18.19	49.40	74.00	24.60	Vertical

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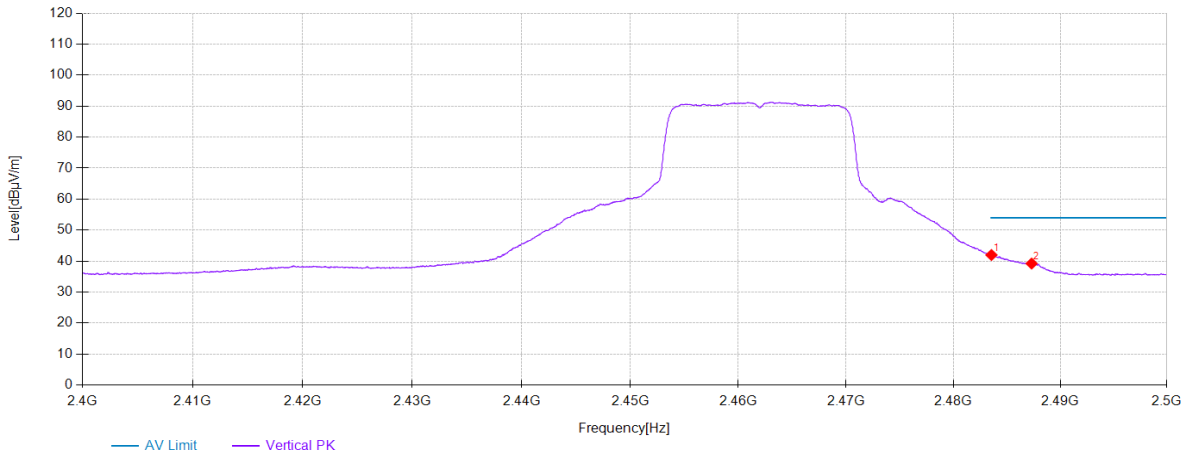

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1	2483.5418	32.44	27.73	-18.19	41.98	54.00	12.02	Vertical
2	2487.2936	29.64	27.75	-18.17	39.22	54.00	14.78	Vertical

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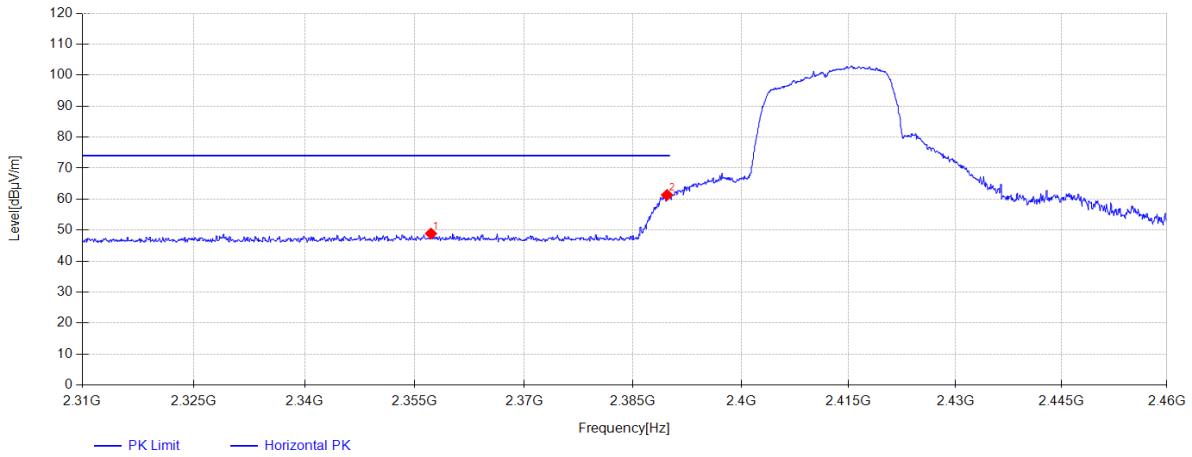

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1	2357.1986	39.62	27.57	-18.30	48.89	74.00	25.11	Horizontal
2	2389.6898	52.05	27.44	-18.16	61.33	74.00	12.67	Horizontal

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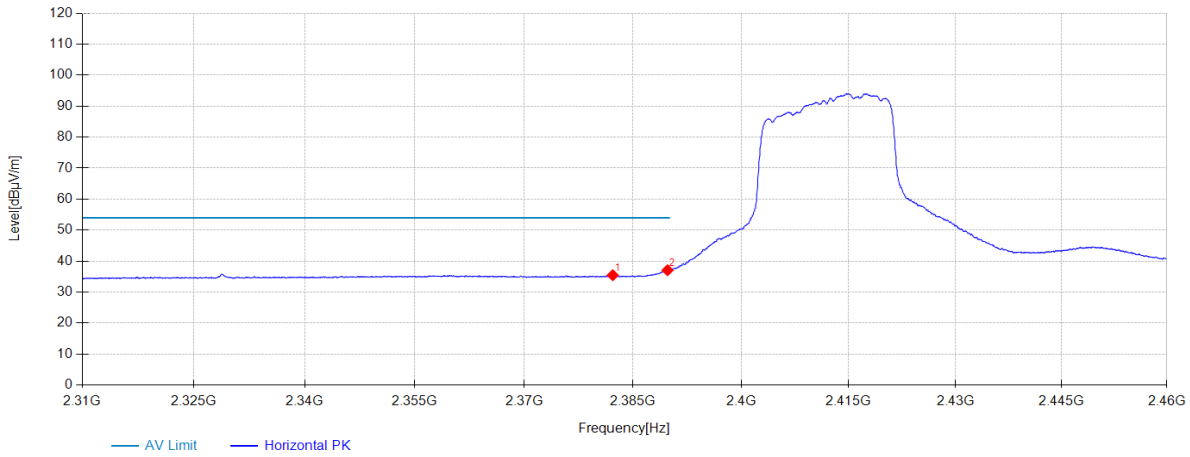

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1	2382.1861	26.31	27.47	-18.32	35.46	54.00	18.54	Horizontal
2	2389.7649	27.79	27.44	-18.16	37.07	54.00	16.93	Horizontal

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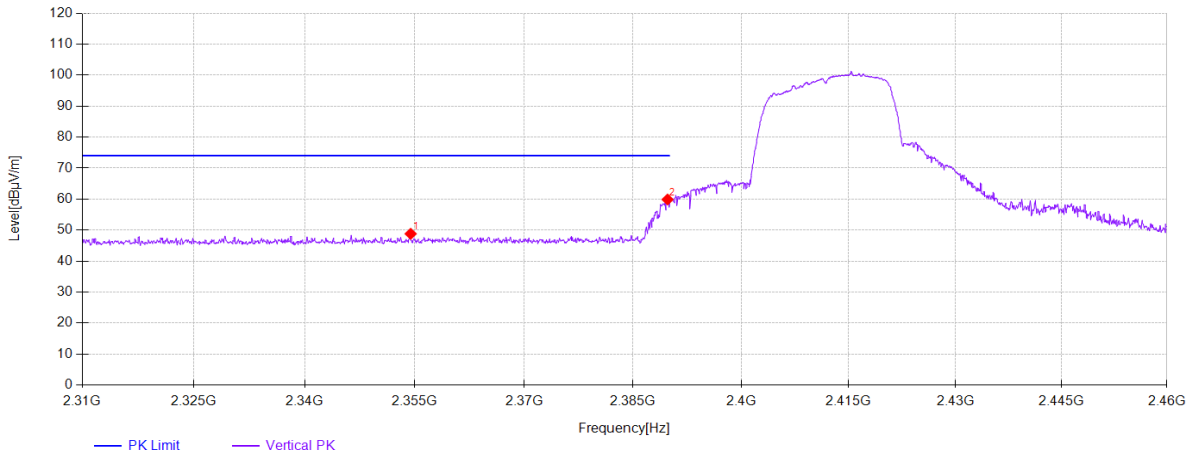

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1	2354.4222	39.60	27.58	-18.37	48.81	74.00	25.19	Vertical
2	2389.7649	50.60	27.44	-18.16	59.88	74.00	14.12	Vertical

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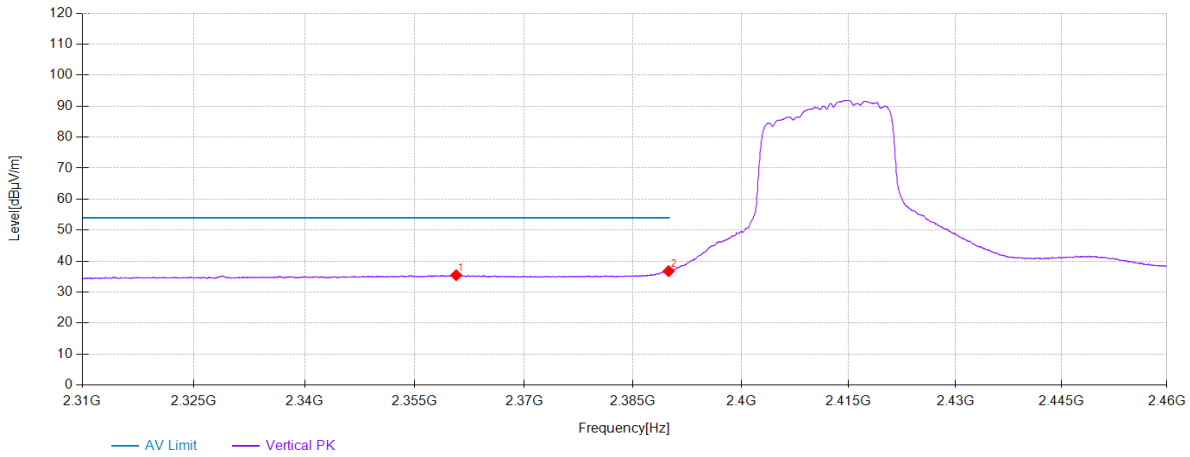

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1	2360.6503	26.14	27.56	-18.25	35.45	54.00	18.55	Vertical
2	2389.915	27.48	27.44	-18.15	36.77	54.00	17.23	Vertical

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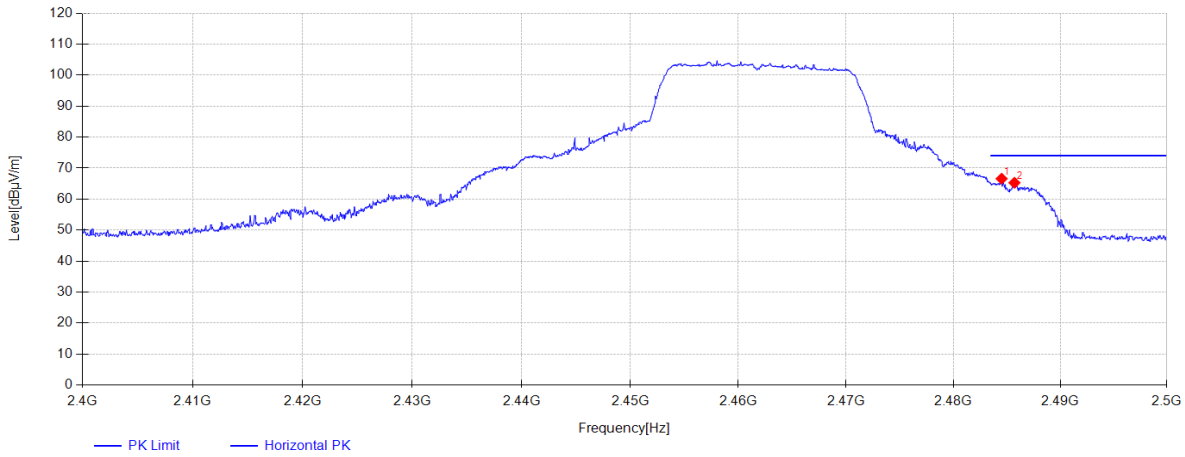

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.4922	57.03	27.74	-18.18	66.59	74.00	7.41	Horizontal
2	2485.6928	55.72	27.74	-18.18	65.28	74.00	8.72	Horizontal

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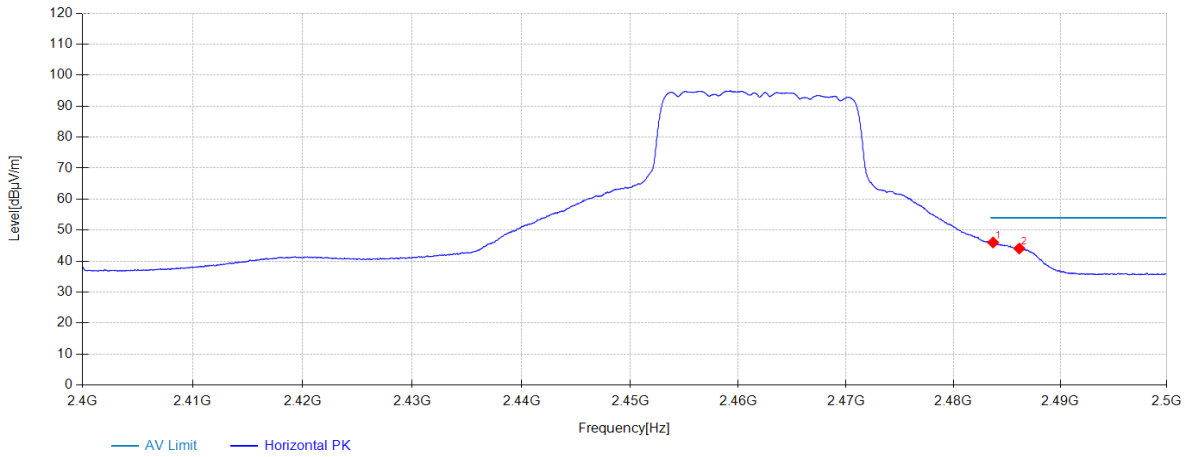

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.6918	36.46	27.73	-18.19	46.00	54.00	8.00	Horizontal
2	2486.1431	34.52	27.74	-18.18	44.08	54.00	9.92	Horizontal

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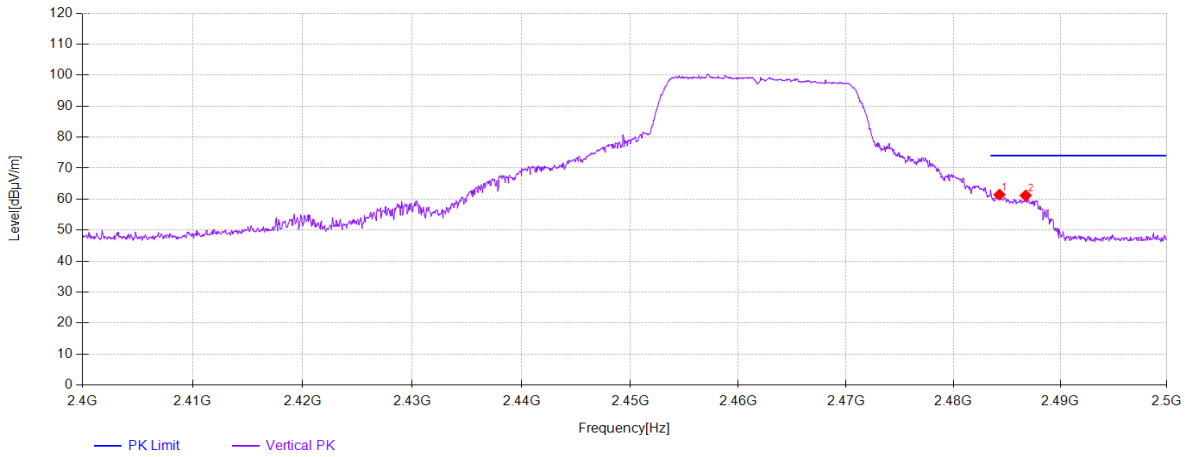

Data List								
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1	2484.2921	51.89	27.74	-18.18	61.45	74.00	12.55	Vertical
2	2486.7434	51.60	27.75	-18.17	61.18	74.00	12.82	Vertical

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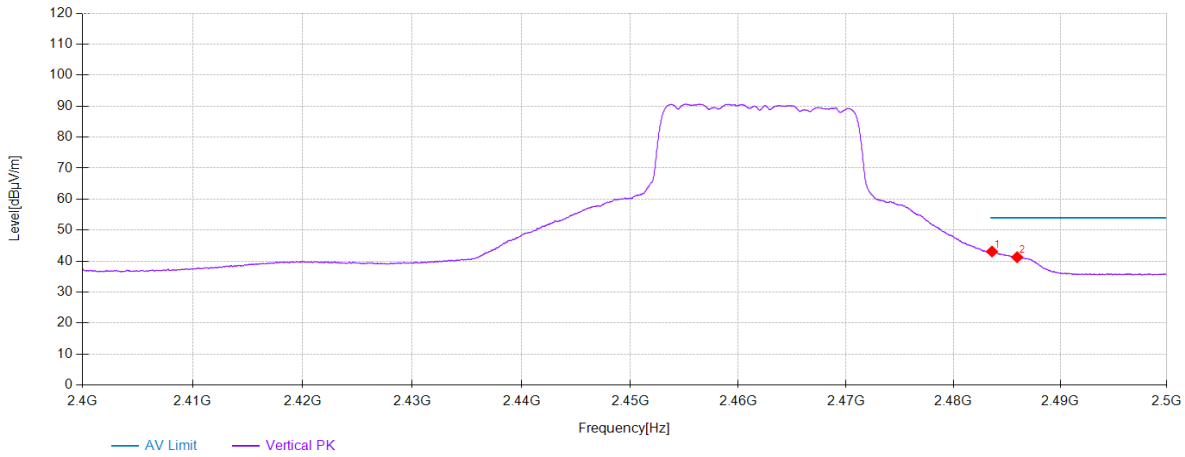

Data List								
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1	2483.5918	33.55	27.73	-18.19	43.09	54.00	10.91	Vertical
2	2485.943	31.70	27.74	-18.18	41.26	54.00	12.74	Vertical

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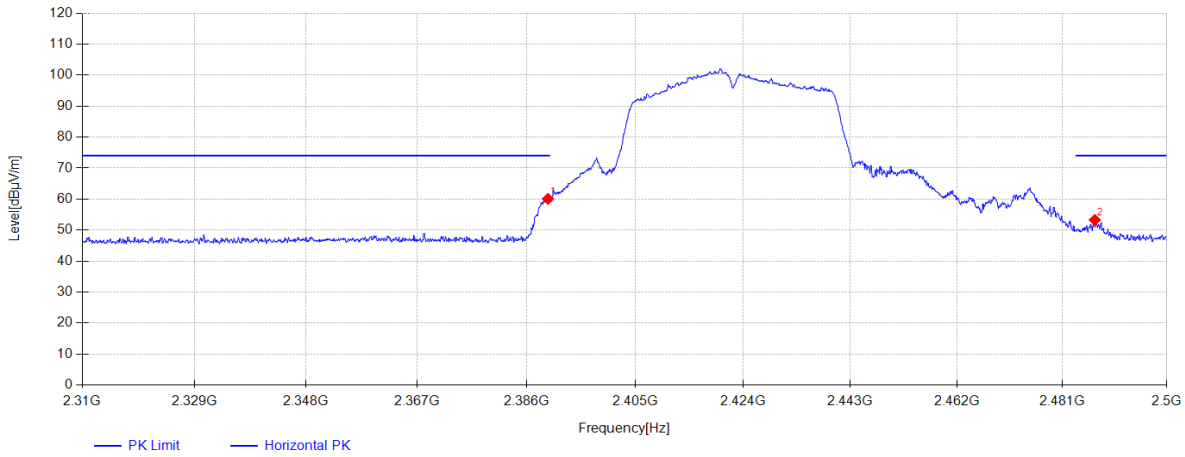

Data List								
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1	2389.7449	50.82	27.44	-18.16	60.10	74.00	13.90	Horizontal
2	2486.8834	43.71	27.75	-18.17	53.29	74.00	20.71	Horizontal

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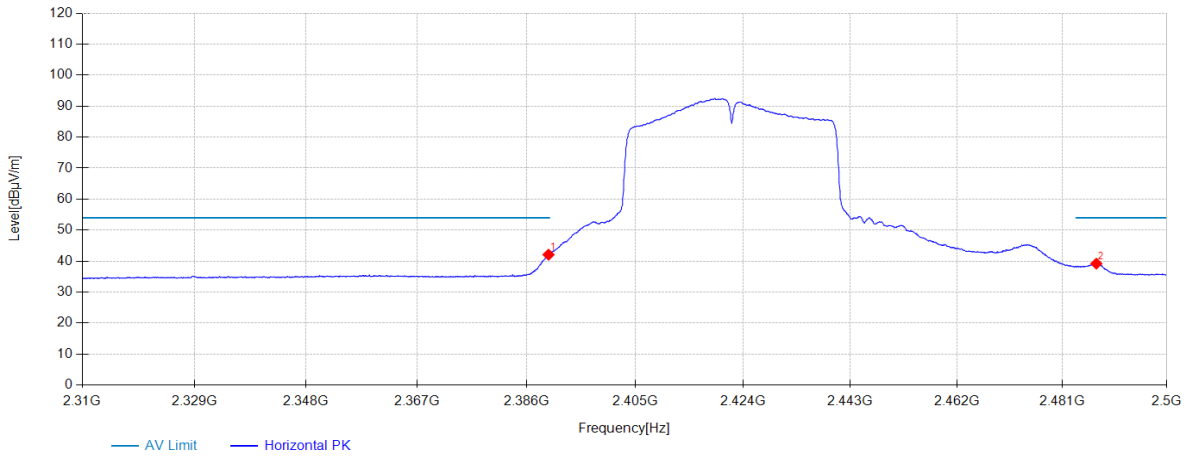

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1	2389.8399	32.80	27.44	-18.15	42.09	54.00	11.91	Horizontal
2	2487.1686	29.61	27.75	-18.17	39.19	54.00	14.81	Horizontal

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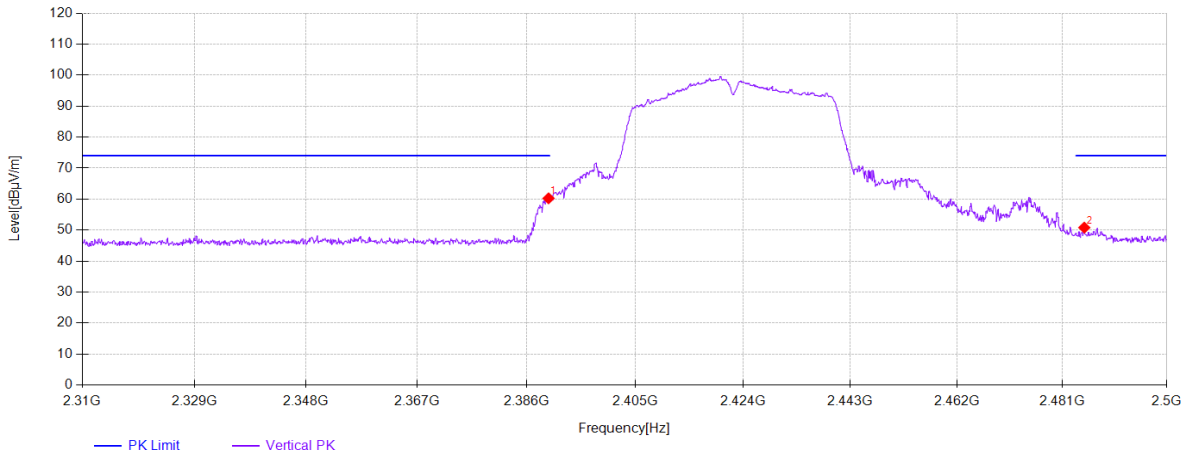

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.8399	50.97	27.44	-18.15	60.26	74.00	13.74	Vertical
2	2484.9825	41.26	27.74	-18.18	50.82	74.00	23.18	Vertical

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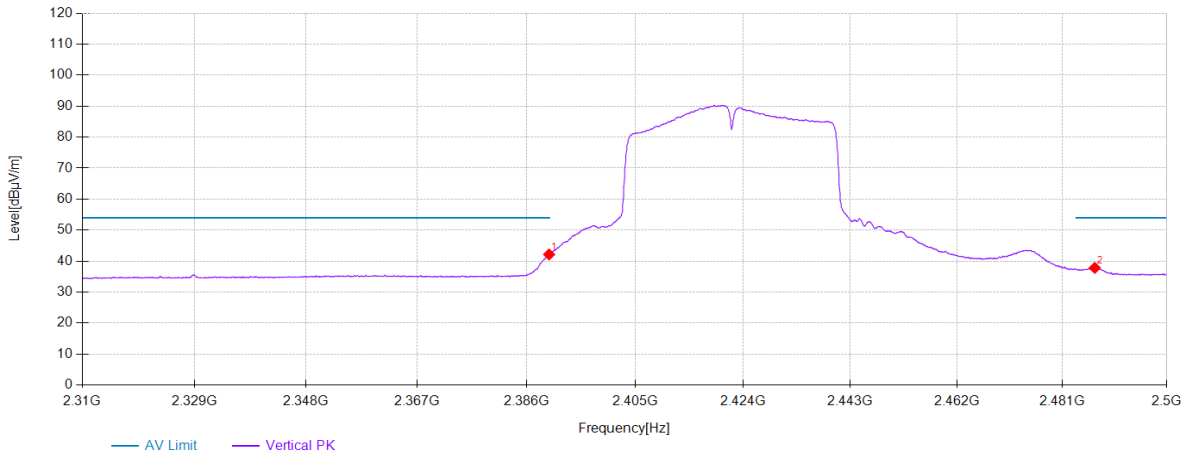
802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.935	32.87	27.44	-18.15	42.16	54.00	11.84	Vertical
2	2486.8834	28.23	27.75	-18.17	37.81	54.00	16.19	Vertical

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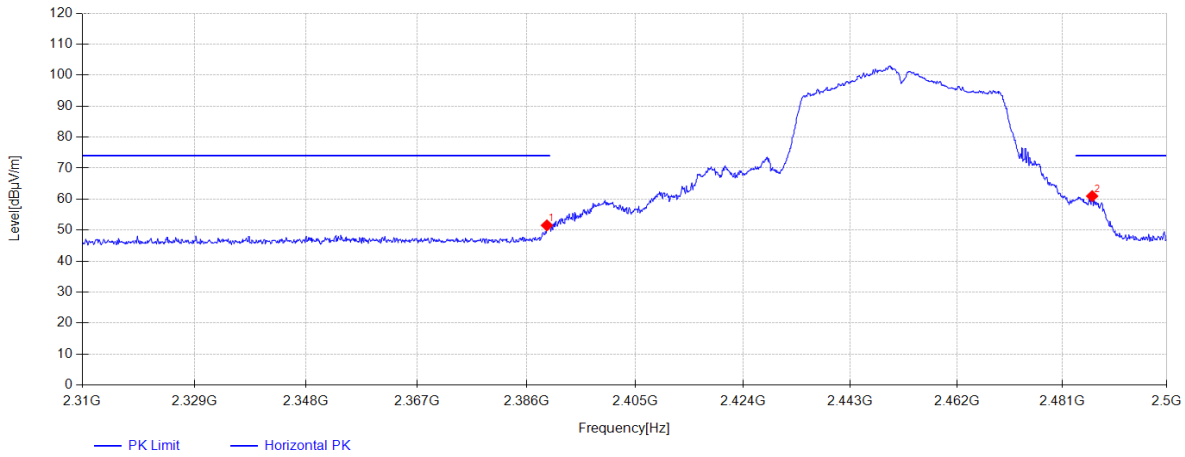
802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.5548	42.26	27.44	-18.16	51.54	74.00	22.46	Horizontal
2	2486.4082	51.39	27.75	-18.17	60.97	74.00	13.03	Horizontal

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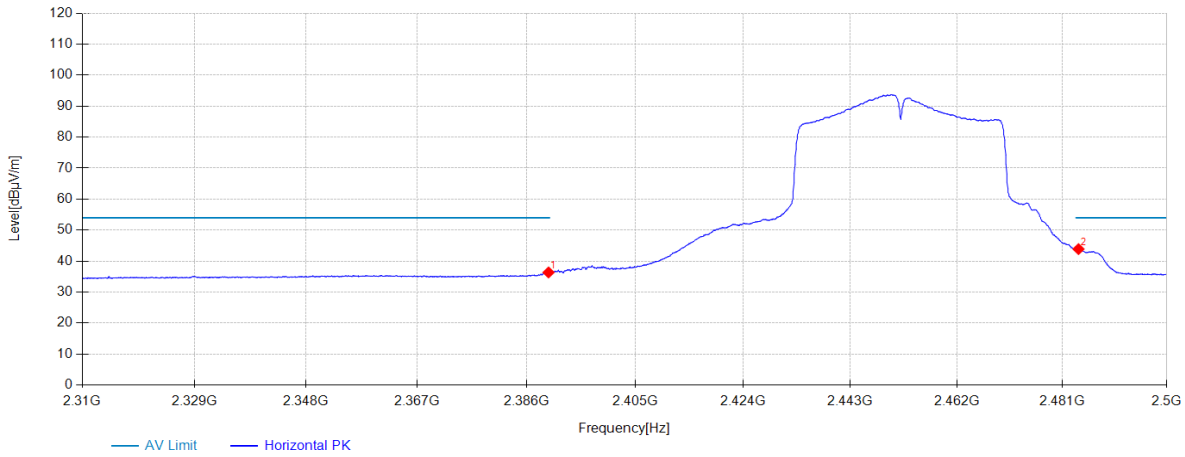

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.8399	27.07	27.44	-18.15	36.36	54.00	17.64	Horizontal
2	2483.937	34.32	27.74	-18.18	43.88	54.00	10.12	Horizontal

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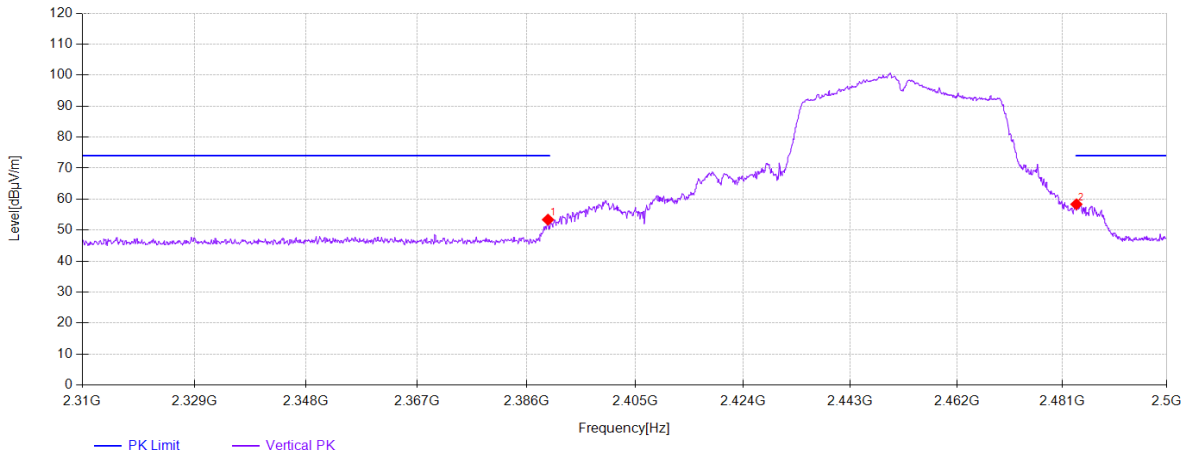

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.7449	44.10	27.44	-18.16	53.38	74.00	20.62	Vertical
2	2483.5568	48.81	27.73	-18.19	58.35	74.00	15.65	Vertical

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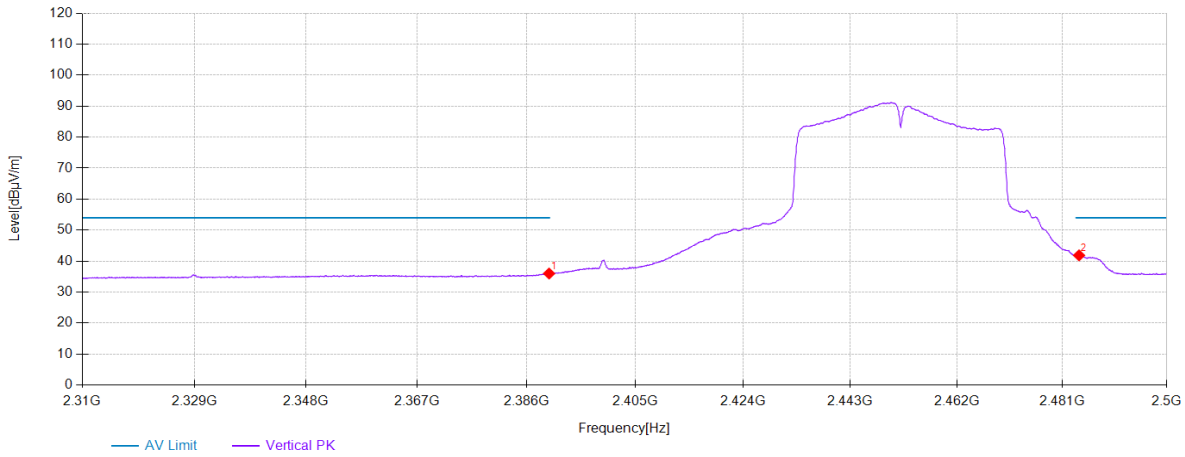

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.935	26.71	27.44	-18.15	36.00	54.00	18.00	Vertical
2	2484.032	32.31	27.74	-18.18	41.87	54.00	12.13	Vertical

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:

   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) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

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