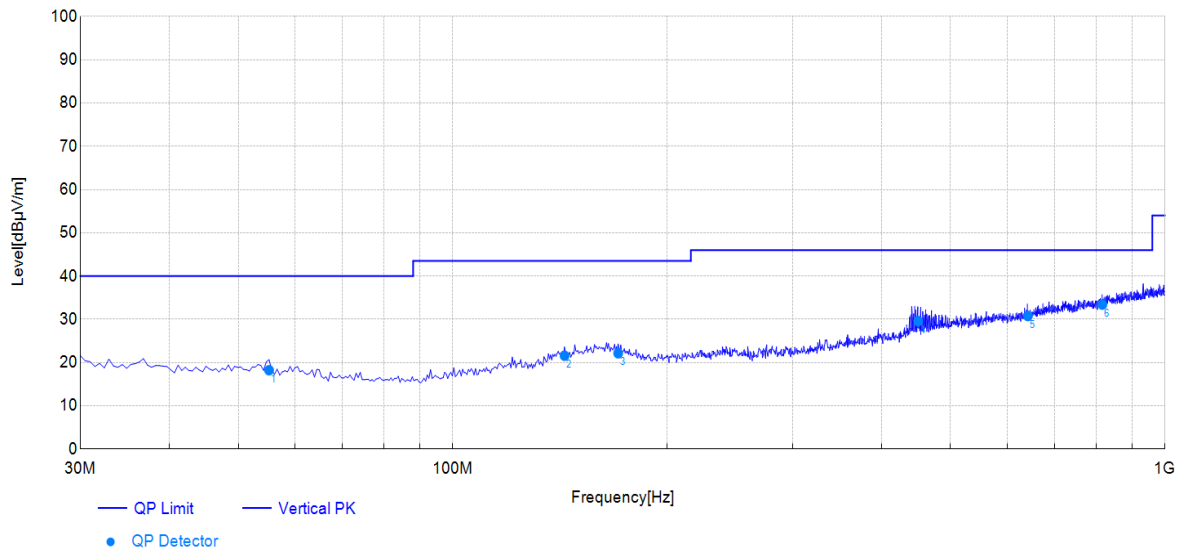


EUT:	RADIO	Polarity:	Vertical
Model:	HA1030A	Test Date:	2025-10-16
Mode:	Transmit at BLE Channel 00	Voltage:	DC 24V
Environment:	Temp: 21.8°C; Humi:55%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	55.23	13.04	5.19	18.23	40.00	21.77	100	198	Vertical	PASS
2	143.55	16.67	4.91	21.58	43.50	21.92	100	296	Vertical	PASS
3	170.72	17.49	4.66	22.15	43.50	21.35	100	99	Vertical	PASS
4	450.22	20.82	8.78	29.60	46.00	16.40	100	322	Vertical	PASS
5	641.89	24.12	6.64	30.76	46.00	15.24	100	328	Vertical	PASS
6	816.58	27.04	6.37	33.41	46.00	12.59	100	33	Vertical	PASS

Note:

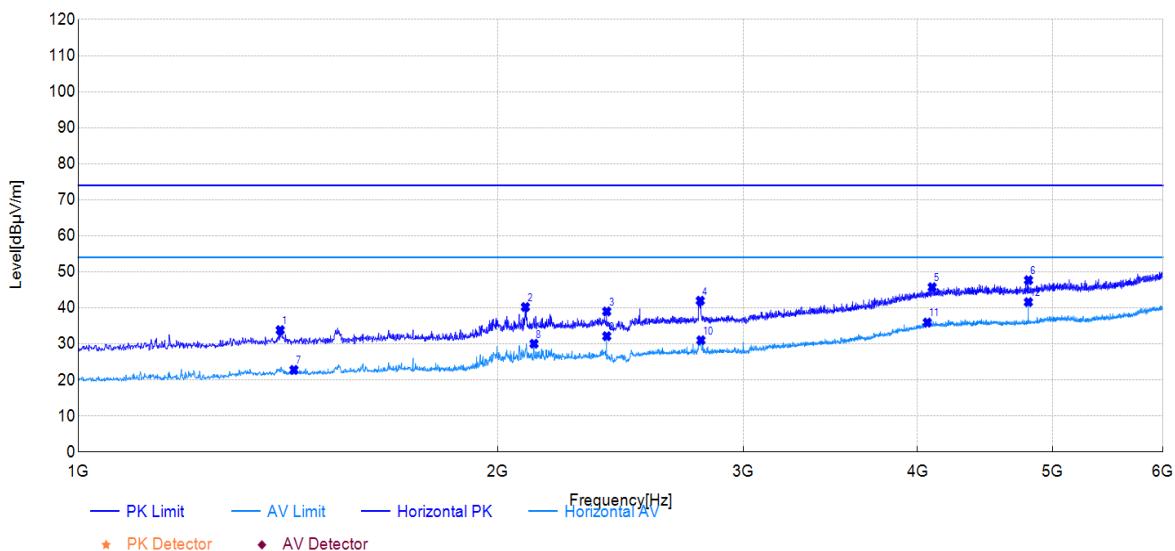
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

1GHz-6GHz

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	00	Test Engineer:	Stone Zhang



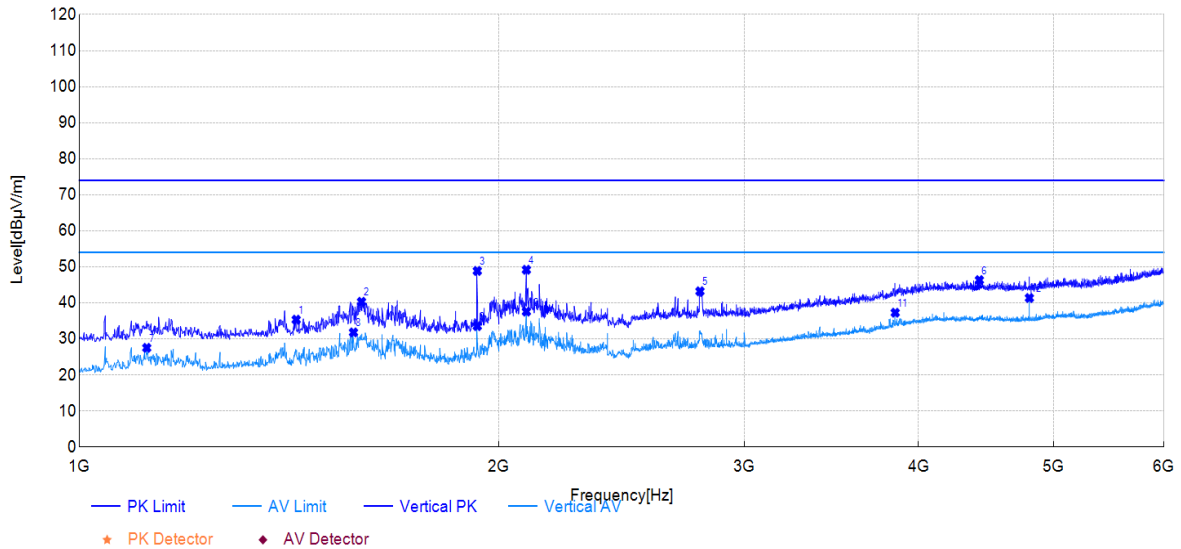
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1396.00	56.05	33.83	-22.22	74.00	40.17	150	213	PK	Horizontal	PASS
2	2093.00	57.93	40.24	-17.69	74.00	33.76	150	118	PK	Horizontal	PASS
3	2394.00	55.34	39.01	-16.33	74.00	34.99	150	26	PK	Horizontal	PASS
4	2794.00	57.16	41.99	-15.17	74.00	32.01	150	125	PK	Horizontal	PASS
5	4098.00	53.84	45.74	-8.10	74.00	28.26	150	334	PK	Horizontal	PASS
6	4805.00	54.46	47.68	-6.78	74.00	26.32	150	122	PK	Horizontal	PASS
7	1428.00	44.86	22.79	-22.07	54.00	31.21	150	0	AV	Horizontal	PASS
8	2123.00	47.59	30.05	-17.54	54.00	23.95	150	111	AV	Horizontal	PASS
9	2394.00	48.48	32.15	-16.33	54.00	21.85	150	26	AV	Horizontal	PASS
10	2797.00	46.19	31.02	-15.17	54.00	22.98	150	122	AV	Horizontal	PASS
11	4065.00	44.20	35.94	-8.26	54.00	18.06	150	67	AV	Horizontal	PASS
12	4804.00	48.38	41.60	-6.78	54.00	12.40	150	99	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	00	Test Engineer:	Stone Zhang



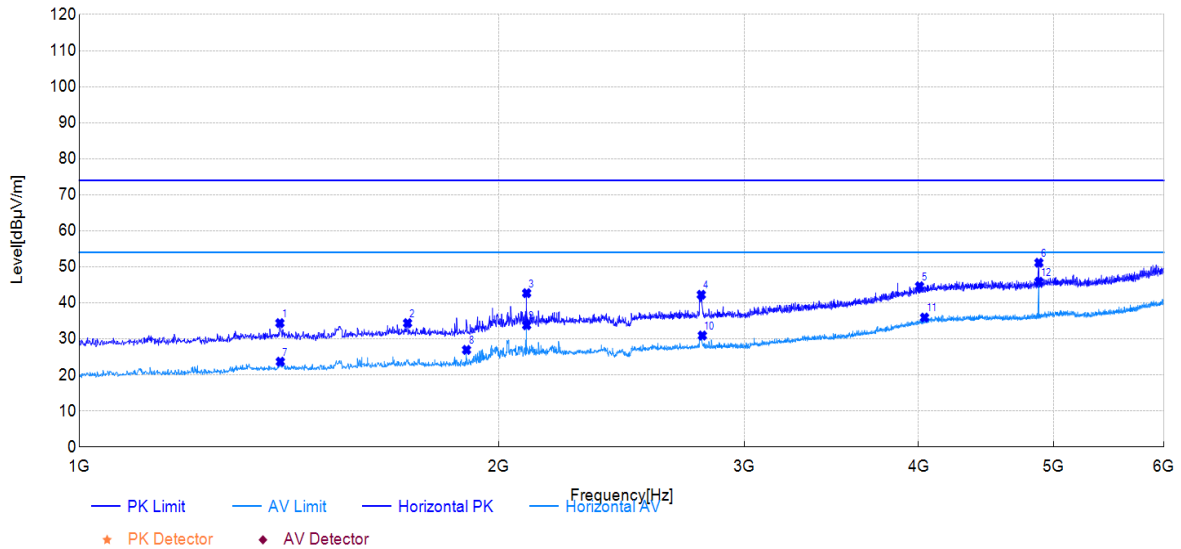
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1431.00	56.56	35.34	-21.22	74.00	38.66	150	79	PK	Vertical	PASS
2	1594.00	60.70	40.30	-20.40	74.00	33.70	150	110	PK	Vertical	PASS
3	1930.00	67.19	48.87	-18.32	74.00	25.13	150	79	PK	Vertical	PASS
4	2093.00	66.61	49.19	-17.42	74.00	24.81	150	99	PK	Vertical	PASS
5	2788.00	58.41	43.22	-15.19	74.00	30.78	150	86	PK	Vertical	PASS
6	4423.00	53.98	46.33	-7.65	74.00	27.67	150	51	PK	Vertical	PASS
7	1118.00	50.26	27.52	-22.74	54.00	26.48	150	79	AV	Vertical	PASS
8	1573.00	52.34	31.81	-20.53	54.00	22.19	150	103	AV	Vertical	PASS
9	1930.00	51.88	33.56	-18.32	54.00	20.44	150	74	AV	Vertical	PASS
10	2093.00	55.00	37.58	-17.42	54.00	16.42	150	99	AV	Vertical	PASS
11	3849.00	46.55	37.27	-9.28	54.00	16.73	150	134	AV	Vertical	PASS
12	4804.00	48.68	41.36	-7.32	54.00	12.64	150	220	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	19	Test Engineer:	Stone Zhang



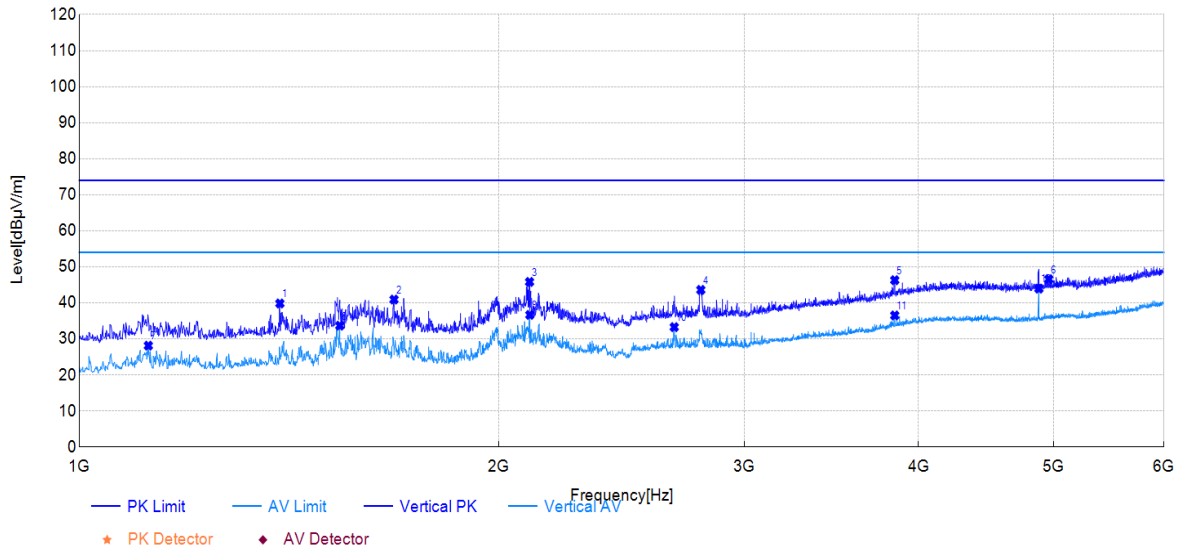
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1393.00	56.63	34.39	-22.24	74.00	39.61	150	112	PK	Horizontal	PASS
2	1720.00	54.54	34.38	-20.16	74.00	39.62	150	120	PK	Horizontal	PASS
3	2094.00	60.38	42.70	-17.68	74.00	31.30	150	123	PK	Horizontal	PASS
4	2794.00	57.43	42.26	-15.17	74.00	31.74	150	120	PK	Horizontal	PASS
5	4007.00	53.15	44.61	-8.54	74.00	29.39	150	98	PK	Horizontal	PASS
6	4880.00	57.69	51.13	-6.56	74.00	22.87	150	112	PK	Horizontal	PASS
7	1394.00	45.91	23.68	-22.23	54.00	30.32	150	37	AV	Horizontal	PASS
8	1896.00	46.01	26.96	-19.05	54.00	27.04	150	102	AV	Horizontal	PASS
9	2094.00	51.47	33.79	-17.68	54.00	20.21	150	123	AV	Horizontal	PASS
10	2799.00	46.11	30.94	-15.17	54.00	23.06	150	123	AV	Horizontal	PASS
11	4040.00	44.31	35.93	-8.38	54.00	18.07	150	203	AV	Horizontal	PASS
12	4880.00	52.42	45.86	-6.56	54.00	8.14	150	116	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	19	Test Engineer:	Stone Zhang



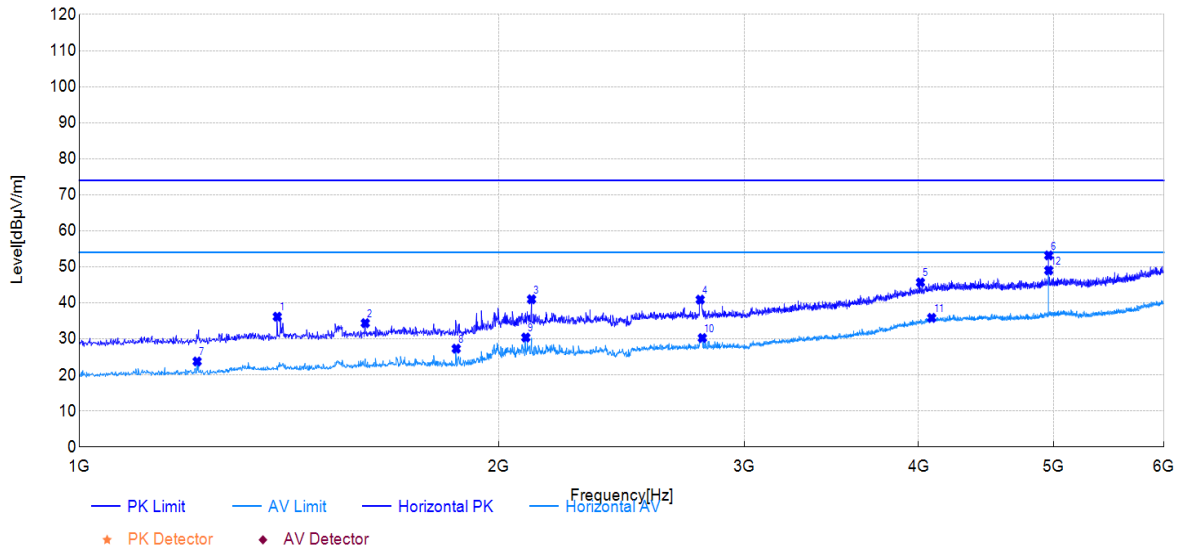
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1393.00	61.22	39.84	-21.38	74.00	34.16	150	78	PK	Vertical	PASS
2	1682.00	60.74	40.93	-19.81	74.00	33.07	150	112	PK	Vertical	PASS
3	2104.00	63.20	45.82	-17.38	74.00	28.18	150	85	PK	Vertical	PASS
4	2792.00	58.79	43.61	-15.18	74.00	30.39	150	101	PK	Vertical	PASS
5	3846.00	55.60	46.30	-9.30	74.00	27.70	150	126	PK	Vertical	PASS
6	4961.00	53.45	46.57	-6.88	74.00	27.43	150	198	PK	Vertical	PASS
7	1121.00	50.86	28.13	-22.73	54.00	25.87	150	85	AV	Vertical	PASS
8	1538.00	54.42	33.69	-20.73	54.00	20.31	150	104	AV	Vertical	PASS
9	2105.00	54.05	36.68	-17.37	54.00	17.32	150	85	AV	Vertical	PASS
10	2672.00	48.69	33.28	-15.41	54.00	20.72	150	78	AV	Vertical	PASS
11	3846.00	45.82	36.52	-9.30	54.00	17.48	150	126	AV	Vertical	PASS
12	4880.00	51.13	43.96	-7.17	54.00	10.04	150	126	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	39	Test Engineer:	Stone Zhang



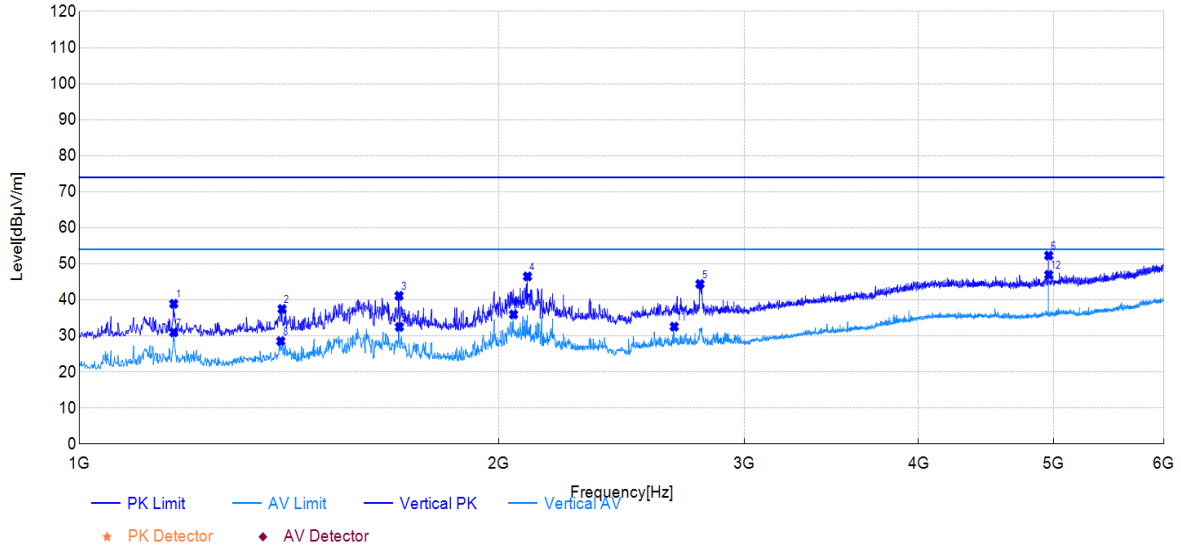
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1387.00	58.45	36.17	-22.28	74.00	37.83	150	124	PK	Horizontal	PASS
2	1604.00	55.44	34.38	-21.06	74.00	39.62	150	121	PK	Horizontal	PASS
3	2111.00	58.60	41.00	-17.60	74.00	33.00	150	116	PK	Horizontal	PASS
4	2789.00	56.07	40.90	-15.17	74.00	33.10	150	124	PK	Horizontal	PASS
5	4013.00	54.20	45.68	-8.52	74.00	28.32	150	354	PK	Horizontal	PASS
6	4960.00	59.38	53.17	-6.21	74.00	20.83	150	109	PK	Horizontal	PASS
7	1215.00	47.12	23.75	-23.37	54.00	30.25	150	41	AV	Horizontal	PASS
8	1864.00	46.49	27.29	-19.20	54.00	26.71	150	312	AV	Horizontal	PASS
9	2091.00	48.08	30.39	-17.69	54.00	23.61	150	121	AV	Horizontal	PASS
10	2799.00	45.42	30.25	-15.17	54.00	23.75	150	121	AV	Horizontal	PASS
11	4088.00	43.99	35.84	-8.15	54.00	18.16	150	203	AV	Horizontal	PASS
12	4960.00	55.22	49.01	-6.21	54.00	4.99	150	109	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1169.00	61.49	38.92	-22.57	74.00	35.08	150	101	PK	Vertical	PASS
2	1398.00	58.82	37.48	-21.34	74.00	36.52	150	75	PK	Vertical	PASS
3	1696.00	60.85	41.13	-19.72	74.00	32.87	150	105	PK	Vertical	PASS
4	2097.00	63.90	46.50	-17.40	74.00	27.50	150	105	PK	Vertical	PASS
5	2788.00	59.60	44.41	-15.19	74.00	29.59	150	101	PK	Vertical	PASS
6	4960.00	59.17	52.29	-6.88	74.00	21.71	150	131	PK	Vertical	PASS
7	1169.00	53.56	30.99	-22.57	54.00	23.01	150	101	AV	Vertical	PASS
8	1395.00	49.91	28.55	-21.36	54.00	25.45	150	75	AV	Vertical	PASS
9	1697.00	52.20	32.49	-19.71	54.00	21.51	150	109	AV	Vertical	PASS
10	2049.00	53.53	35.95	-17.58	54.00	18.05	150	86	AV	Vertical	PASS
11	2672.00	47.99	32.58	-15.41	54.00	21.42	150	79	AV	Vertical	PASS
12	4960.00	53.84	46.96	-6.88	54.00	7.04	150	124	AV	Vertical	PASS

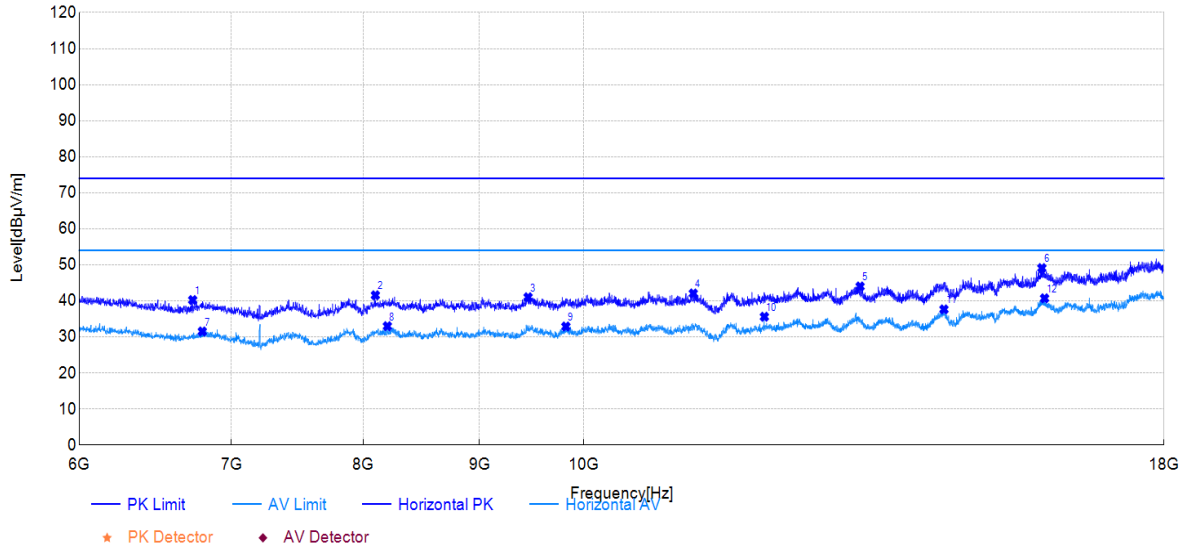
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

6GHz-18GHz

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	00	Test Engineer:	Stone Zhang



Suspected Data List

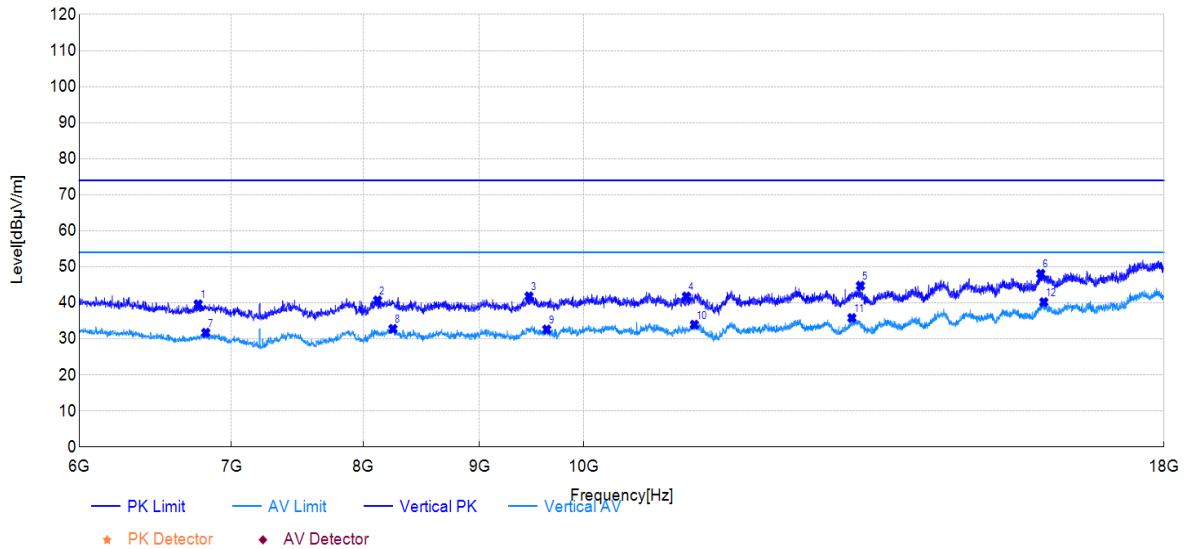
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6730.50	45.75	40.23	-5.52	74.00	33.77	150	0	PK	Horizontal	PASS
2	8098.50	42.59	41.56	-1.03	74.00	32.44	150	2	PK	Horizontal	PASS
3	9453.00	41.33	41.01	-0.32	74.00	32.99	150	0	PK	Horizontal	PASS
4	11175.00	41.34	42.07	0.73	74.00	31.93	150	0	PK	Horizontal	PASS
5	13231.50	40.81	44.01	3.20	74.00	29.99	150	37	PK	Horizontal	PASS
6	15906.00	39.32	49.10	9.78	74.00	24.90	150	198	PK	Horizontal	PASS
7	6796.50	36.46	31.52	-4.94	54.00	22.48	150	232	AV	Horizontal	PASS
8	8197.50	34.43	32.98	-1.45	54.00	21.02	150	1	AV	Horizontal	PASS
9	9822.00	33.16	32.89	-0.27	54.00	21.11	150	96	AV	Horizontal	PASS
10	12009.00	34.07	35.60	1.53	54.00	18.40	150	174	AV	Horizontal	PASS
11	14404.50	32.51	37.64	5.13	54.00	16.36	150	307	AV	Horizontal	PASS
12	15949.50	30.93	40.71	9.78	54.00	13.29	150	60	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	00	Test Engineer:	Stone Zhang



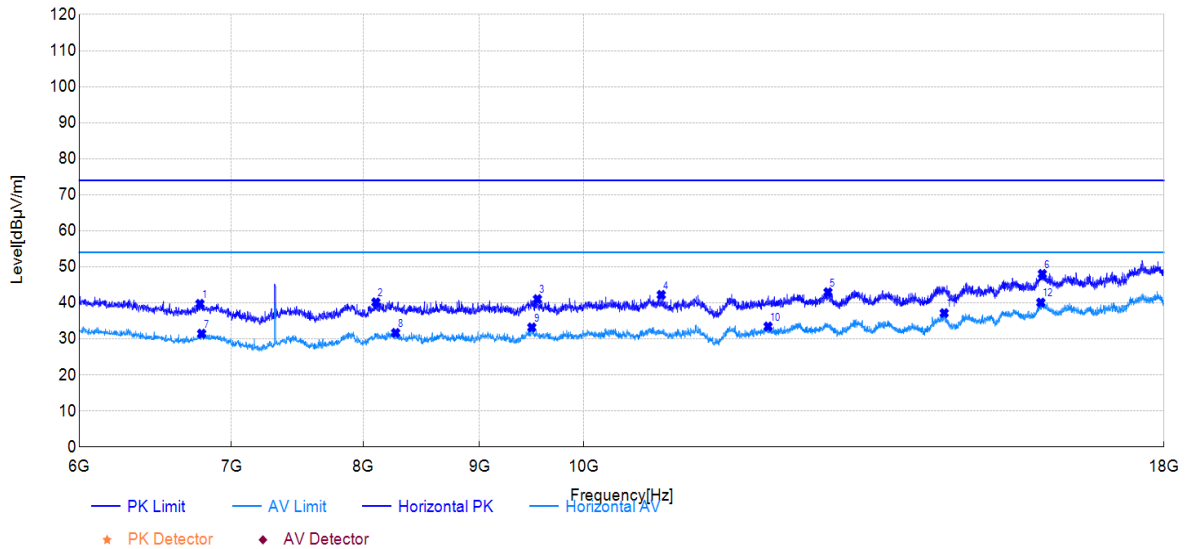
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6768.00	44.68	39.62	-5.06	74.00	34.38	150	267	PK	Vertical	PASS
2	8116.50	41.78	40.69	-1.09	74.00	33.31	150	173	PK	Vertical	PASS
3	9462.00	42.06	41.81	-0.25	74.00	32.19	150	80	PK	Vertical	PASS
4	11097.00	40.94	41.78	0.84	74.00	32.22	150	162	PK	Vertical	PASS
5	13236.00	42.10	44.76	2.66	74.00	29.24	150	38	PK	Vertical	PASS
6	15888.00	39.02	48.09	9.07	74.00	25.91	150	30	PK	Vertical	PASS
7	6820.50	36.40	31.71	-4.69	54.00	22.29	150	208	AV	Vertical	PASS
8	8244.00	34.13	32.79	-1.34	54.00	21.21	150	34	AV	Vertical	PASS
9	9633.00	33.03	32.62	-0.41	54.00	21.38	150	213	AV	Vertical	PASS
10	11187.00	32.99	33.95	0.96	54.00	20.05	150	173	AV	Vertical	PASS
11	13122.00	33.26	35.82	2.56	54.00	18.18	150	135	AV	Vertical	PASS
12	15937.50	30.92	40.21	9.29	54.00	13.79	150	104	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	19	Test Engineer:	Stone Zhang



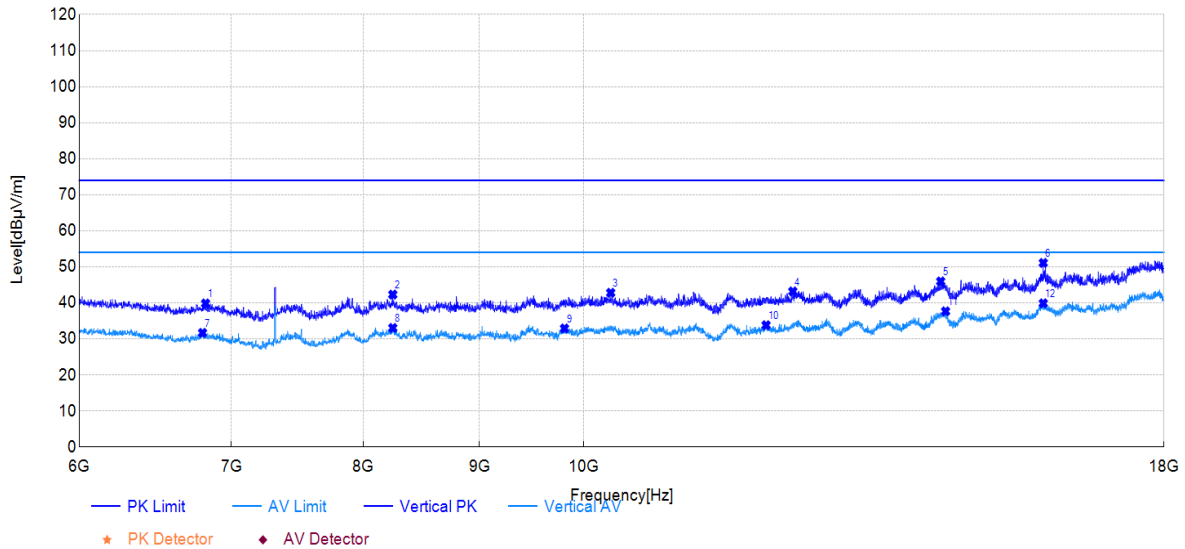
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6780.00	44.82	39.73	-5.09	74.00	34.27	150	79	PK	Horizontal	PASS
2	8103.00	41.19	40.15	-1.04	74.00	33.85	150	79	PK	Horizontal	PASS
3	9543.00	41.10	41.04	-0.06	74.00	32.96	150	305	PK	Horizontal	PASS
4	10818.00	41.59	42.22	0.63	74.00	31.78	150	163	PK	Horizontal	PASS
5	12808.50	40.90	42.96	2.06	74.00	31.04	150	349	PK	Horizontal	PASS
6	15913.50	38.25	48.03	9.78	74.00	25.97	150	6	PK	Horizontal	PASS
7	6792.00	36.44	31.46	-4.98	54.00	22.54	150	0	AV	Horizontal	PASS
8	8266.50	32.93	31.67	-1.26	54.00	22.33	150	360	AV	Horizontal	PASS
9	9489.00	33.23	33.20	-0.03	54.00	20.80	150	340	AV	Horizontal	PASS
10	12054.00	31.94	33.45	1.51	54.00	20.55	150	360	AV	Horizontal	PASS
11	14407.50	32.06	37.17	5.11	54.00	16.83	150	360	AV	Horizontal	PASS
12	15889.50	30.51	40.09	9.58	54.00	13.91	150	340	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	19	Test Engineer:	Stone Zhang



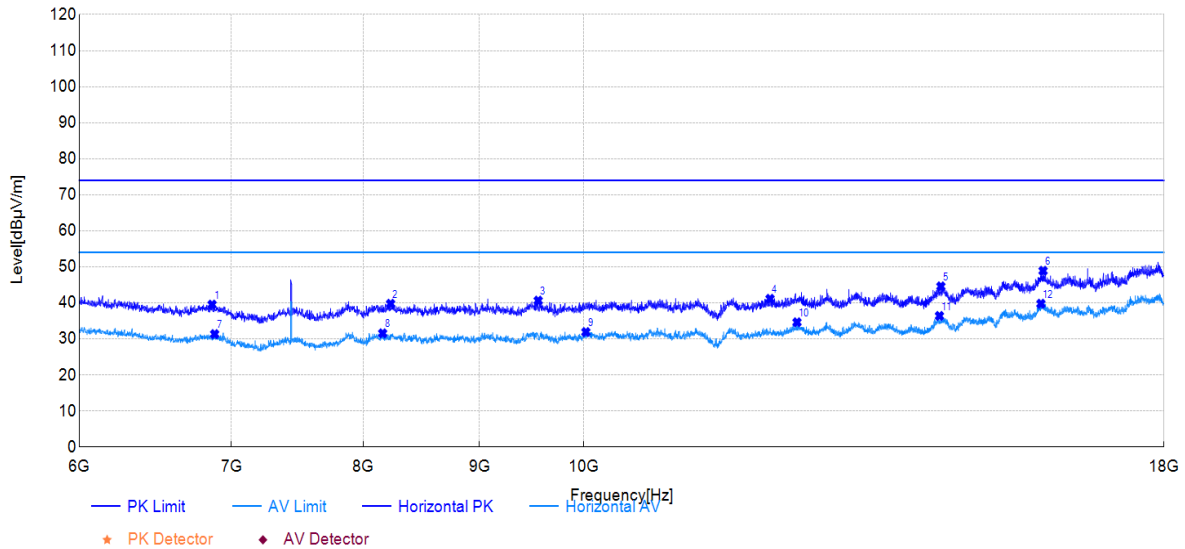
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6819.00	44.55	39.85	-4.70	74.00	34.15	150	101	PK	Vertical	PASS
2	8242.50	43.65	42.31	-1.34	74.00	31.69	150	165	PK	Vertical	PASS
3	10278.00	42.38	42.80	0.42	74.00	31.20	150	156	PK	Vertical	PASS
4	12360.00	41.10	43.18	2.08	74.00	30.82	150	188	PK	Vertical	PASS
5	14356.50	40.47	45.96	5.49	74.00	28.04	150	227	PK	Vertical	PASS
6	15928.50	41.79	51.09	9.30	74.00	22.91	150	98	PK	Vertical	PASS
7	6798.00	36.49	31.69	-4.80	54.00	22.31	150	79	AV	Vertical	PASS
8	8242.50	34.39	33.05	-1.34	54.00	20.95	150	110	AV	Vertical	PASS
9	9808.50	32.85	32.91	0.06	54.00	21.09	150	262	AV	Vertical	PASS
10	12030.00	32.27	33.80	1.53	54.00	20.20	150	200	AV	Vertical	PASS
11	14428.50	32.33	37.66	5.33	54.00	16.34	150	30	AV	Vertical	PASS
12	15928.50	30.59	39.89	9.30	54.00	14.11	150	98	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	39	Test Engineer:	Stone Zhang



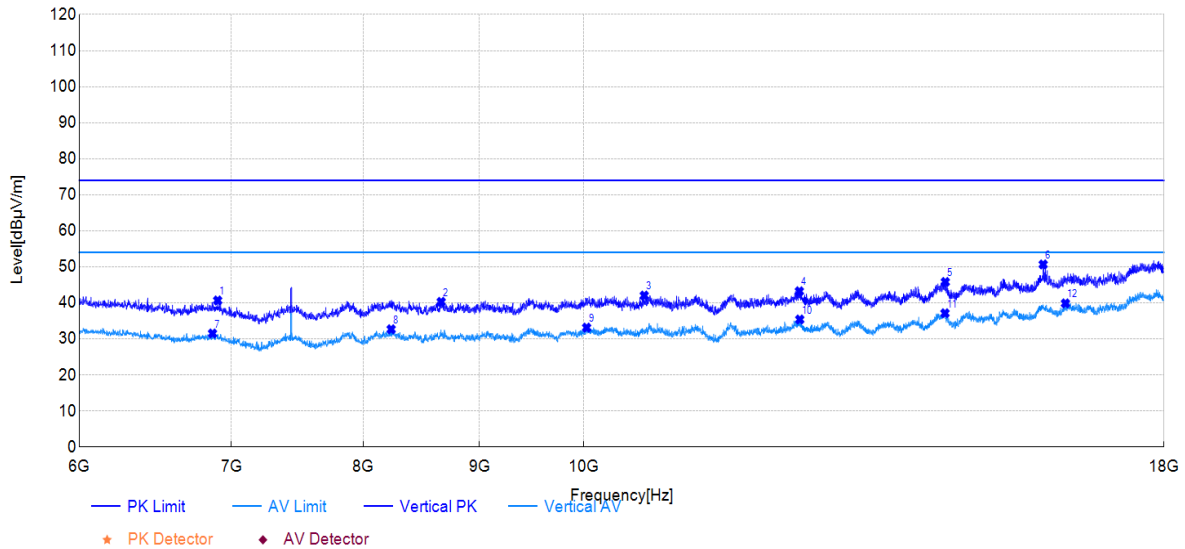
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6864.00	44.10	39.52	-4.58	74.00	34.48	150	278	PK	Horizontal	PASS
2	8224.50	41.14	39.75	-1.39	74.00	34.25	150	94	PK	Horizontal	PASS
3	9550.50	40.70	40.62	-0.08	74.00	33.38	150	338	PK	Horizontal	PASS
4	12078.00	39.63	41.13	1.50	74.00	32.87	150	3	PK	Horizontal	PASS
5	14359.50	39.59	44.58	4.99	74.00	29.42	150	157	PK	Horizontal	PASS
6	15925.50	39.12	48.90	9.78	74.00	25.10	150	0	PK	Horizontal	PASS
7	6882.00	35.83	31.34	-4.49	54.00	22.66	150	290	AV	Horizontal	PASS
8	8158.50	32.83	31.55	-1.28	54.00	22.45	150	208	AV	Horizontal	PASS
9	10023.00	31.93	31.90	-0.03	54.00	22.10	150	208	AV	Horizontal	PASS
10	12412.50	32.31	34.62	2.31	54.00	19.38	150	51	AV	Horizontal	PASS
11	14338.50	31.47	36.38	4.91	54.00	17.62	150	87	AV	Horizontal	PASS
12	15891.00	30.16	39.77	9.61	54.00	14.23	150	228	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Test Mode:	BLE	Test Date:	2025-10-16
Test Channel:	39	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	6903.00	45.02	40.67	-4.35	74.00	33.33	150	85	PK	Vertical	PASS
2	8656.50	41.47	40.28	-1.19	74.00	33.72	150	328	PK	Vertical	PASS
3	10633.50	41.13	42.03	0.90	74.00	31.97	150	360	PK	Vertical	PASS
4	12442.50	40.77	43.22	2.45	74.00	30.78	150	347	PK	Vertical	PASS
5	14424.00	40.42	45.80	5.38	74.00	28.20	150	90	PK	Vertical	PASS
6	15927.00	41.38	50.67	9.29	74.00	23.33	150	121	PK	Vertical	PASS
7	6867.00	36.00	31.51	-4.49	54.00	22.49	150	160	AV	Vertical	PASS
8	8229.00	34.05	32.68	-1.37	54.00	21.32	150	360	AV	Vertical	PASS
9	10030.50	32.67	33.13	0.46	54.00	20.87	150	359	AV	Vertical	PASS
10	12447.00	32.93	35.39	2.46	54.00	18.61	150	344	AV	Vertical	PASS
11	14419.50	31.70	37.12	5.42	54.00	16.88	150	245	AV	Vertical	PASS
12	16290.00	30.67	39.87	9.20	54.00	14.13	150	351	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52480 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

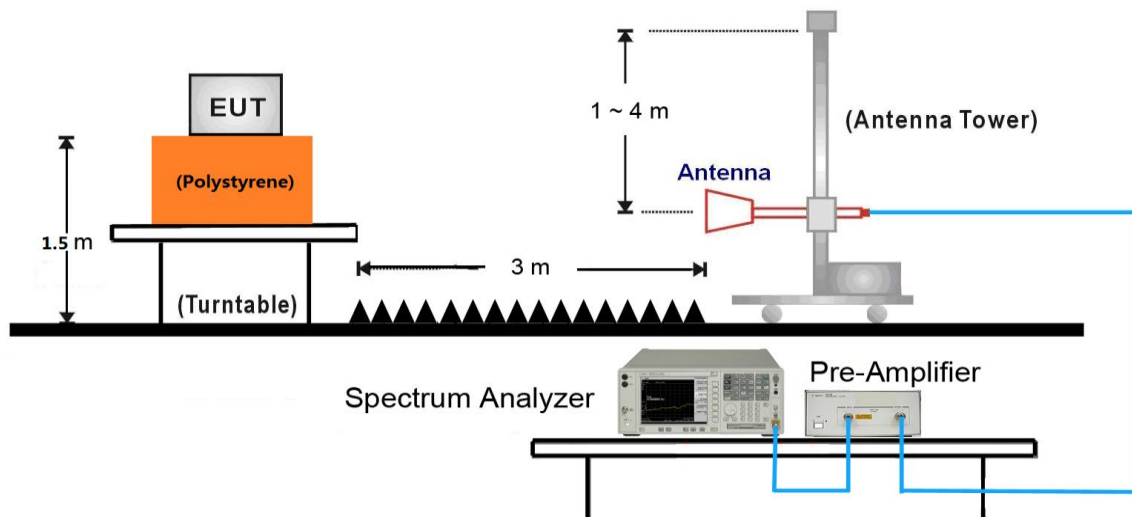
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

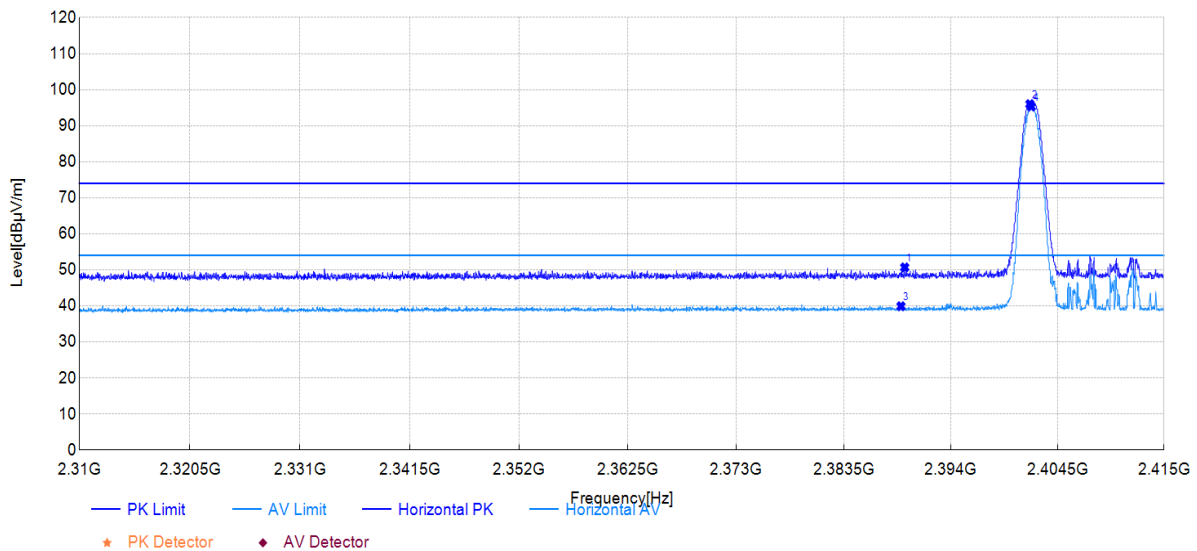
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup



7.7.5. Test Result

Project Information			
EUT:	RADIO	Model:	HA1030A
Test Date:	2025-10-16	Voltage:	DC 24V
Environment:	Temp: 21.8°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2402MHz		

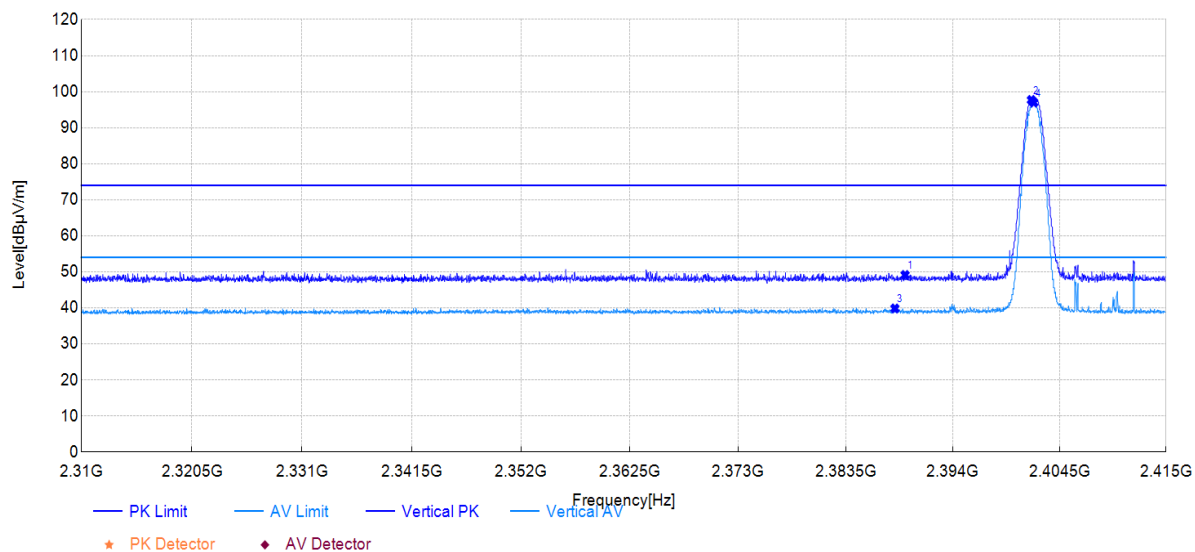


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.48	15.20	50.68	35.48	74.00	23.32	150	190	PK	Horizontal	PASS
2	2401.77	60.52	95.99	35.47	/	/	150	27	PK	Horizontal	PASS
3	2389.11	4.43	39.91	35.48	54.00	14.09	150	293	AV	Horizontal	PASS
4	2401.90	59.85	95.32	35.47	/	/	150	27	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



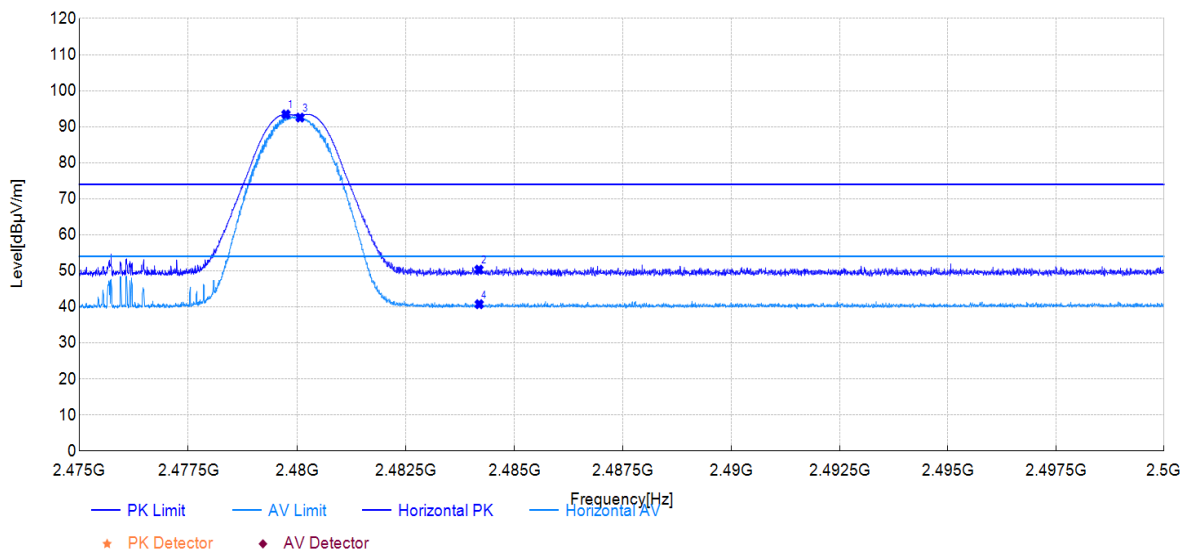
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.32	13.79	49.13	35.34	74.00	24.87	150	137	PK	Vertical	PASS
2	2401.71	62.38	97.69	35.31	/	/	150	141	PK	Vertical	PASS
3	2388.32	4.50	39.84	35.34	54.00	14.16	150	137	AV	Vertical	PASS
4	2401.95	61.68	96.99	35.31	/	/	150	137	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

Project Information			
EUT:	RADIO	Model:	HA1030A
Test Date:	2025-10-16	Voltage:	DC 24V
Environment:	Temp: 21.8°C; Humi:55%	Engineer:	Stone Zhang
Remark:	Transmit by BLE at Channel 2480MHz		

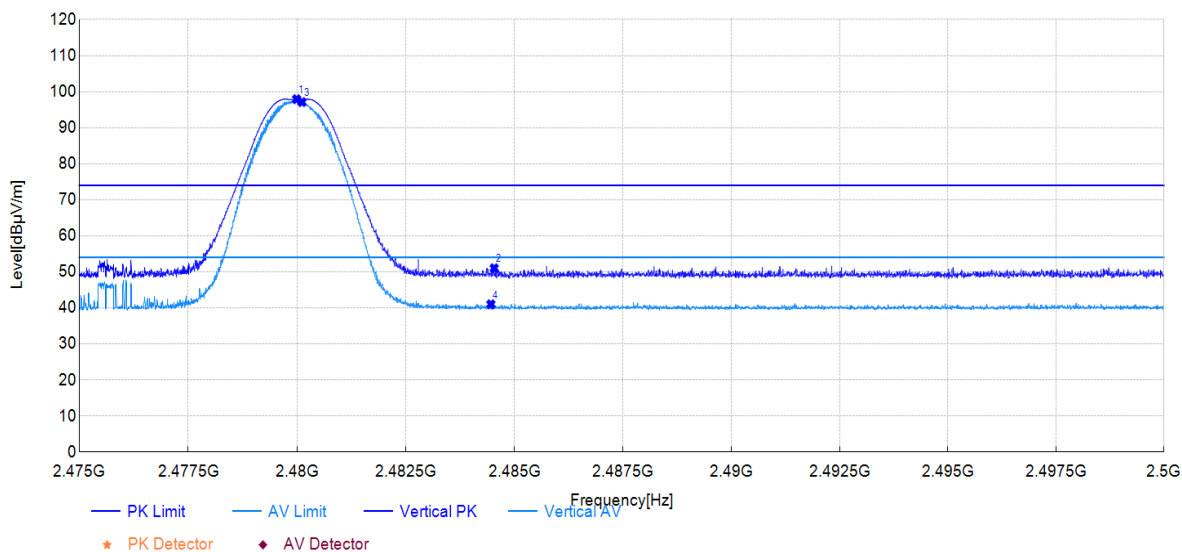


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.74	57.16	93.42	36.26	/	/	150	149	PK	Horizontal	PASS
2	2484.18	14.04	50.34	36.30	74.00	23.66	150	22	PK	Horizontal	PASS
3	2480.07	56.27	92.53	36.26	/	/	150	149	AV	Horizontal	PASS
4	2484.19	4.44	40.74	36.30	54.00	13.26	150	291	AV	Horizontal	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.99	61.92	97.91	35.99	/	/	150	151	PK	Vertical	PASS
2	2484.53	14.99	51.01	36.02	74.00	22.99	150	35	PK	Vertical	PASS
3	2480.11	61.12	97.11	35.99	/	/	150	151	AV	Vertical	PASS
4	2484.46	4.98	41.00	36.02	54.00	13.00	150	359	AV	Vertical	PASS

Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

7.8. AC Conducted Emissions Measurement

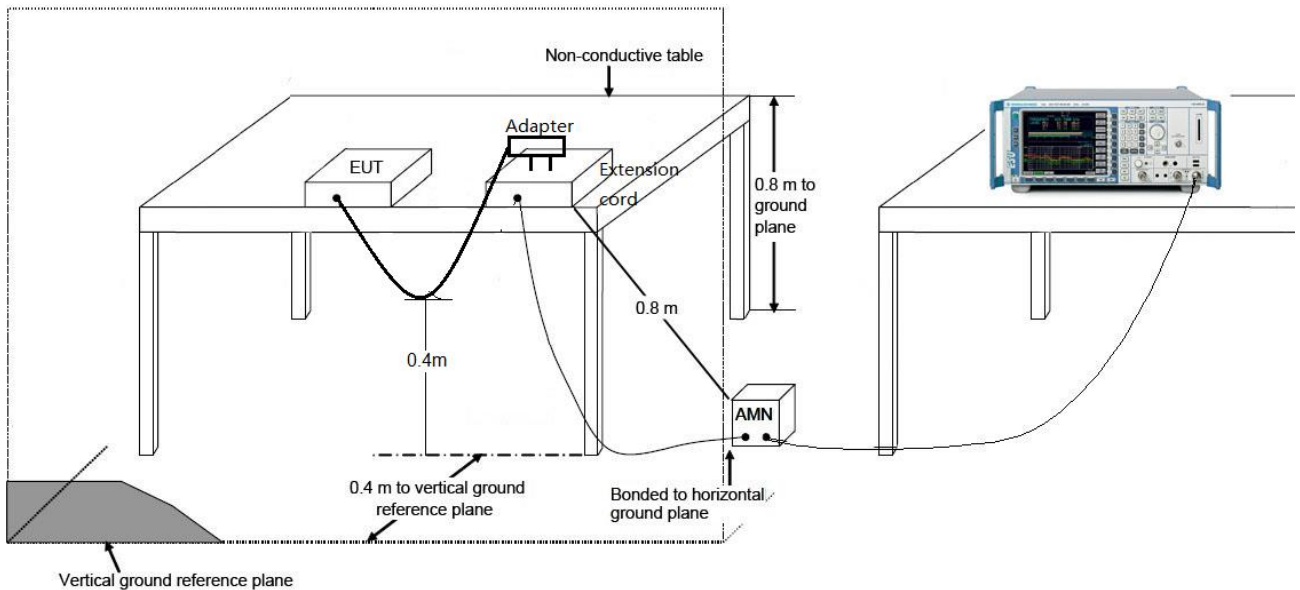
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

The EUT is DC 24V supply, this item only for the EUT is designed to be connected to the public utility (AC) power line. Not applicable.

8. Conclusion

The data collected relate only the item(s) tested and show that the **RADIO** is compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
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7. This report is issued by the following laboratory premises:

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