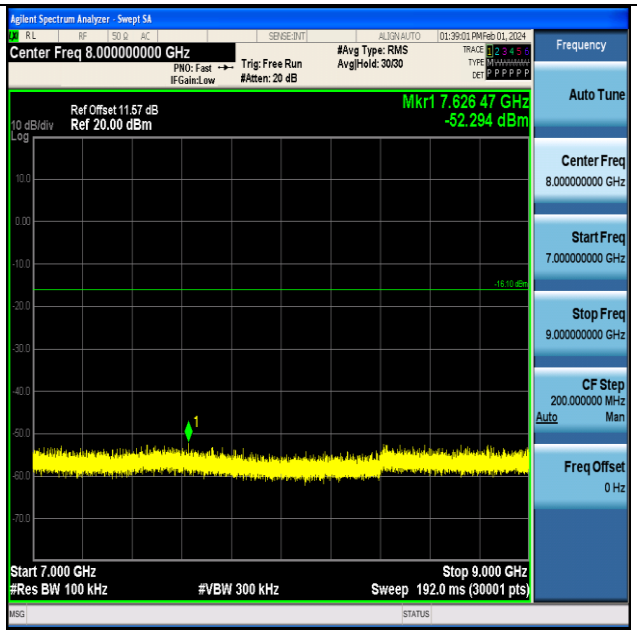
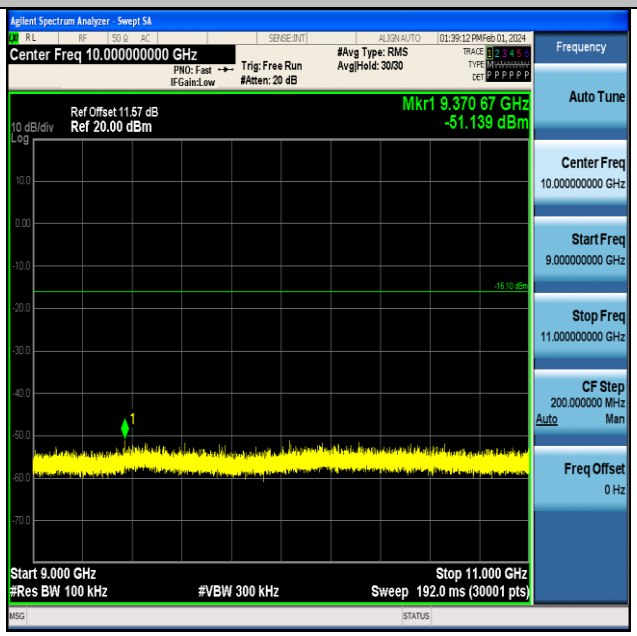
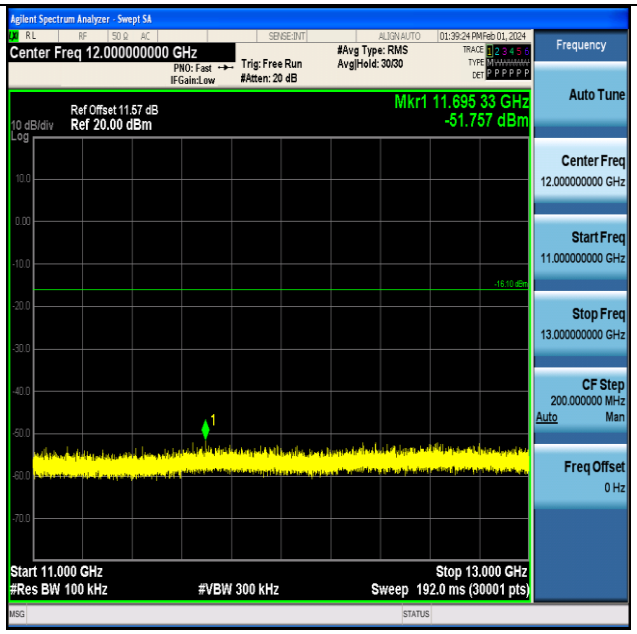


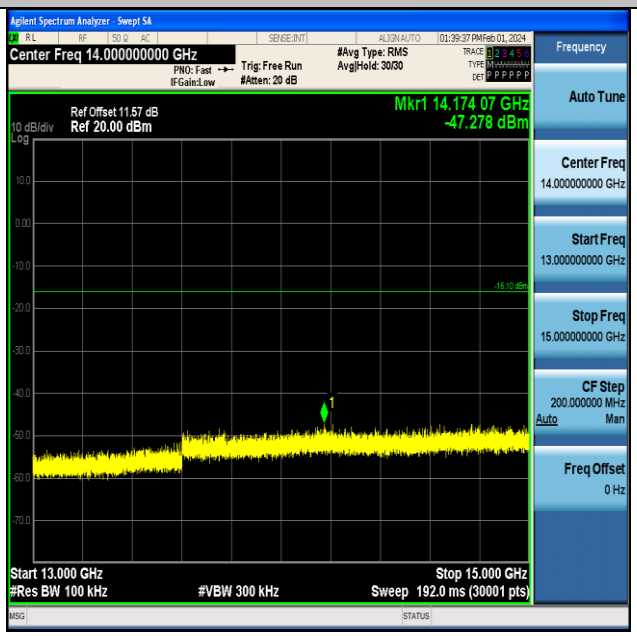
3DH5-Ant1-2441-7000~9000-PASS



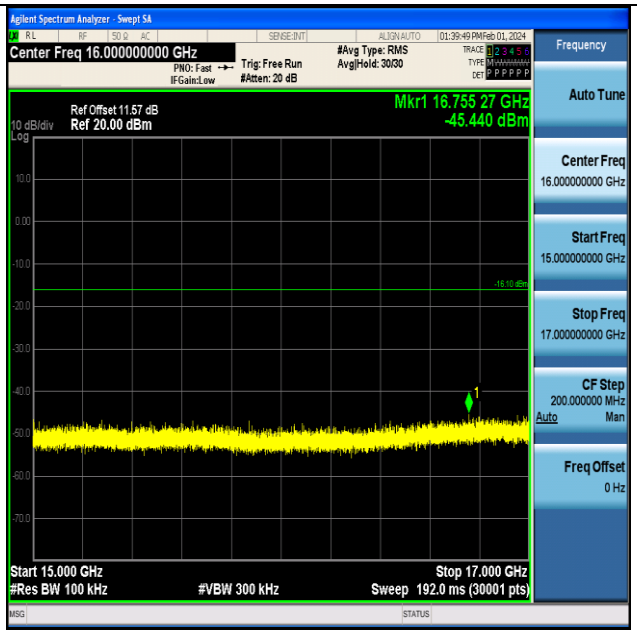
3DH5-Ant1-2441-9000~11000-PASS



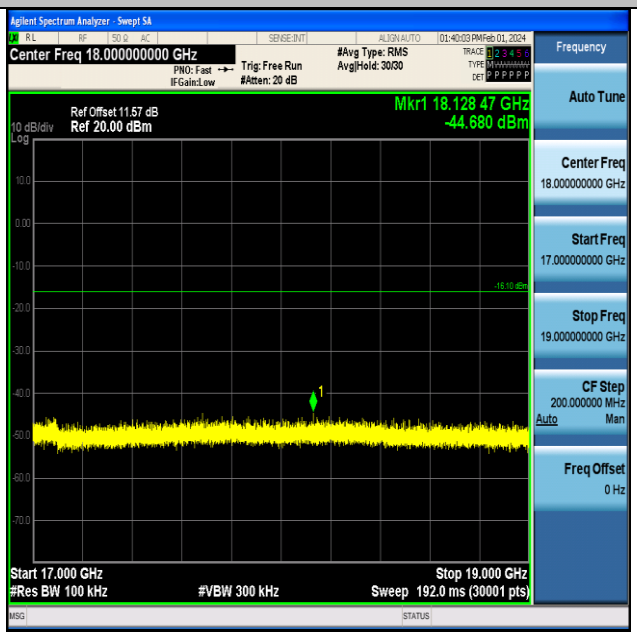
3DH5-Ant1-2441-11000~13000-PASS



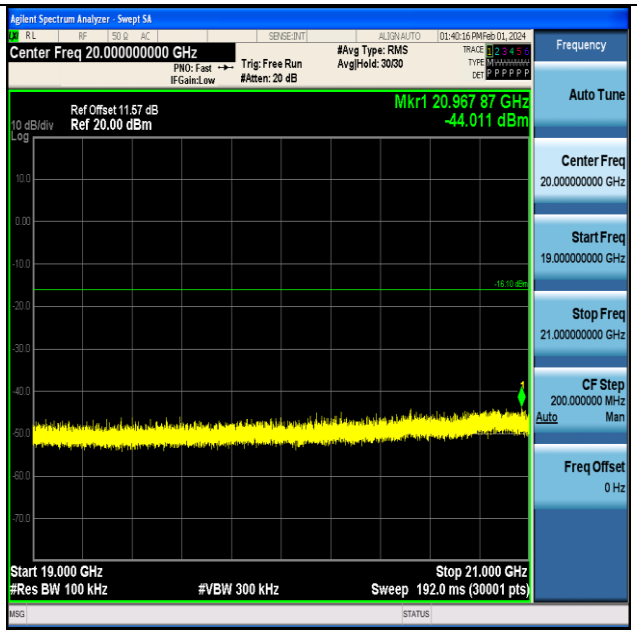
3DH5-Ant1-2441-13000~15000-PASS



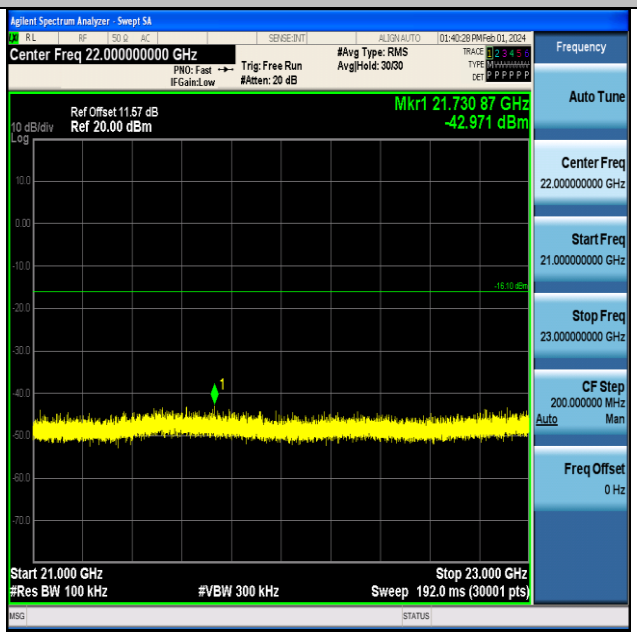
3DH5-Ant1-2441-15000~17000-PASS



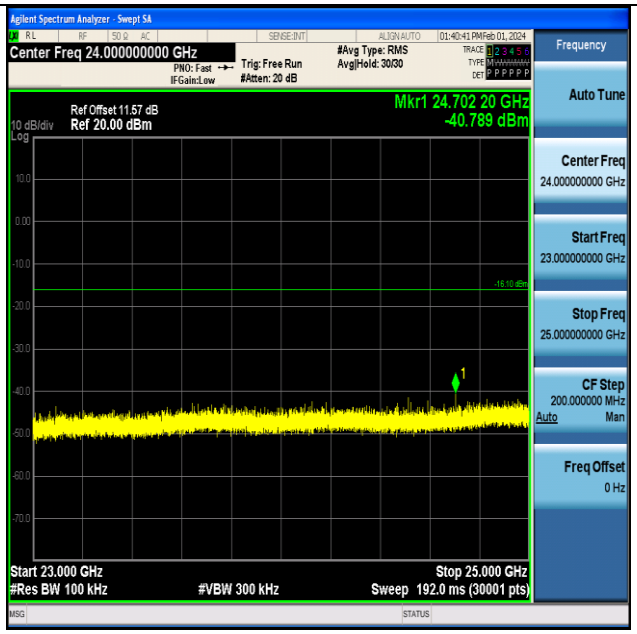
3DH5-Ant1-2441-17000~19000-PASS



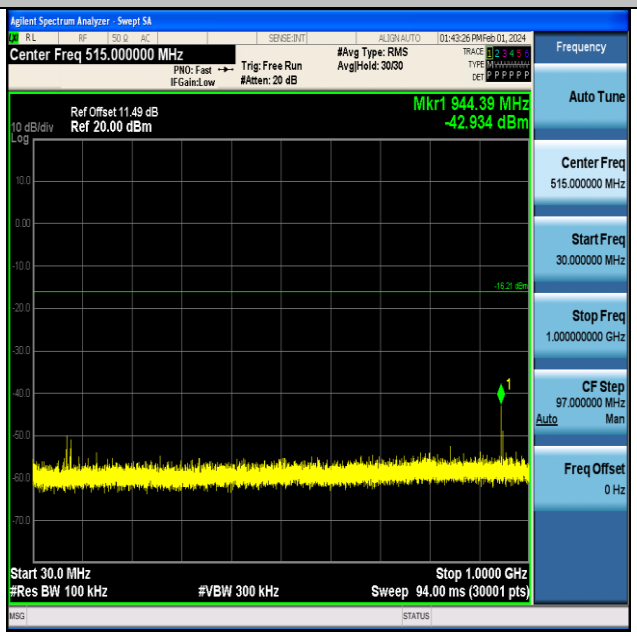
3DH5-Ant1-2441-19000~21000-PASS



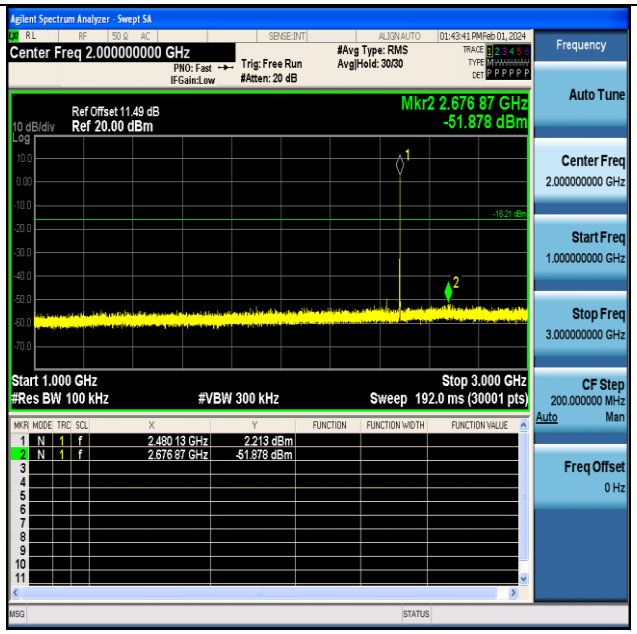
3DH5-Ant1-2441-21000~23000-PASS



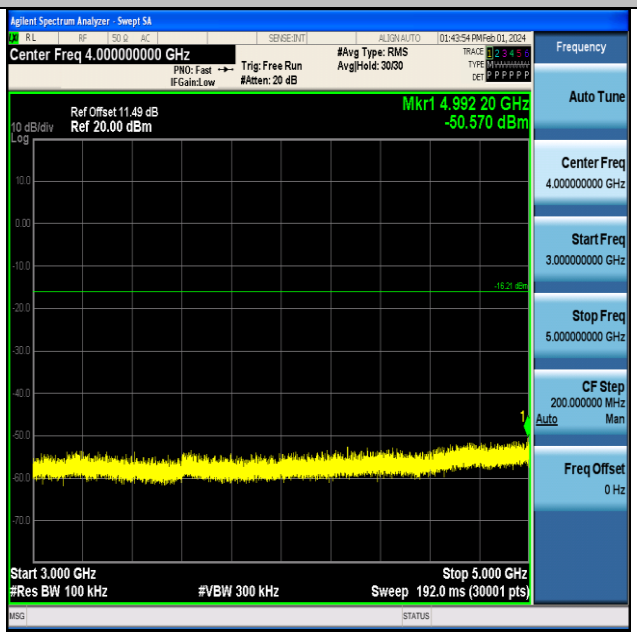
3DH5-Ant1-2441-23000~25000-PASS



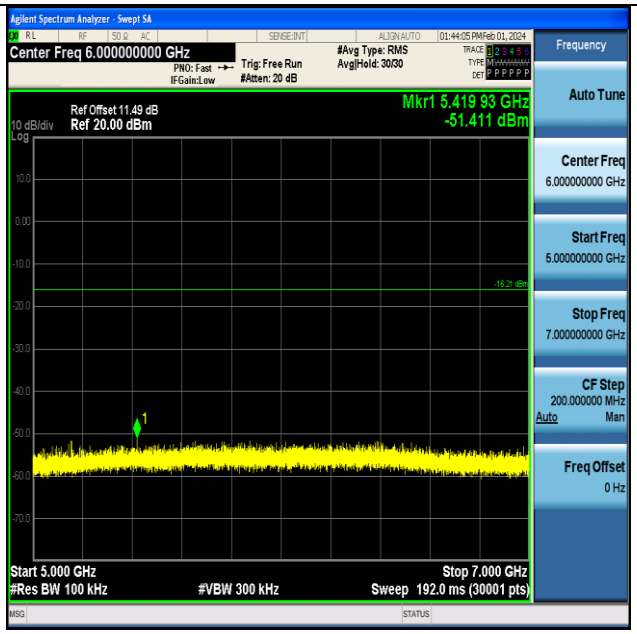
3DH5-Ant1-2480-30~1000-PASS



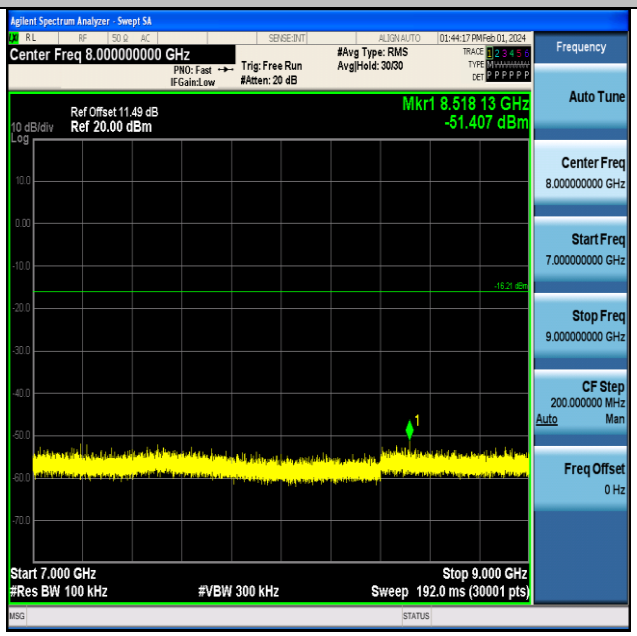
3DH5-Ant1-2480-1000~3000-PASS



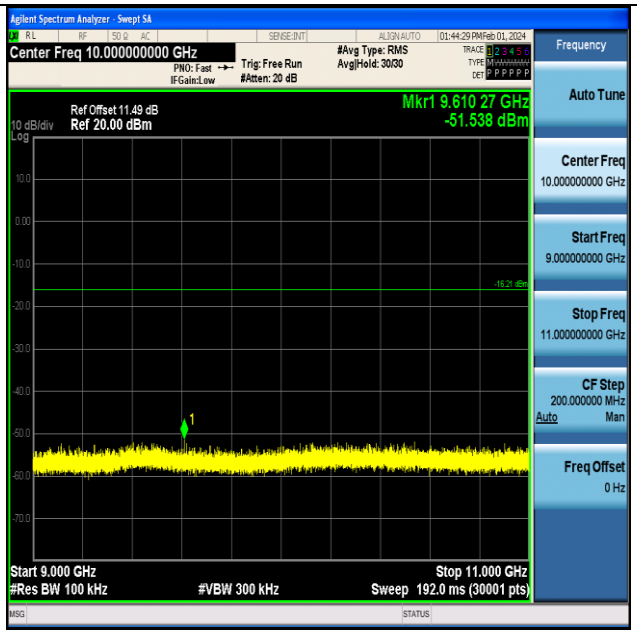
3DH5-Ant1-2480-3000~5000-PASS



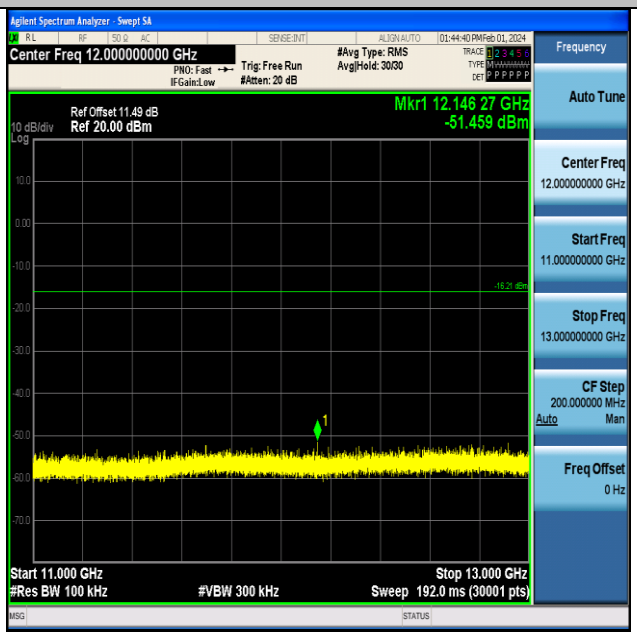
3DH5-Ant1-2480-5000~7000-PASS



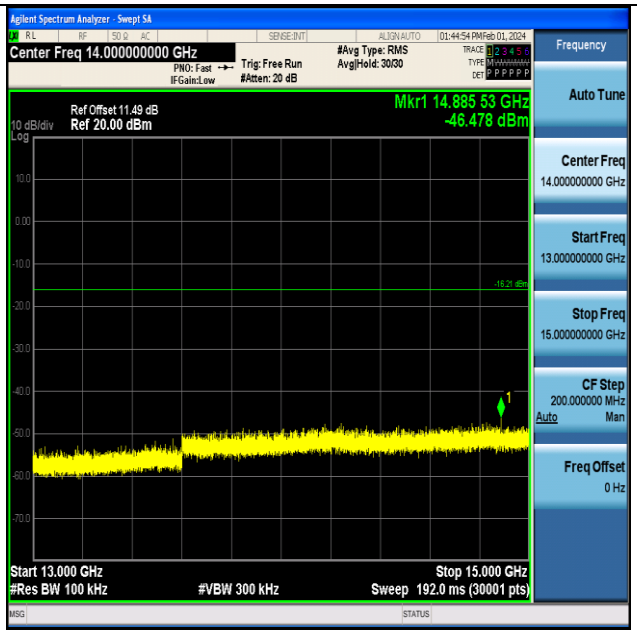
3DH5-Ant1-2480-7000~9000-PASS



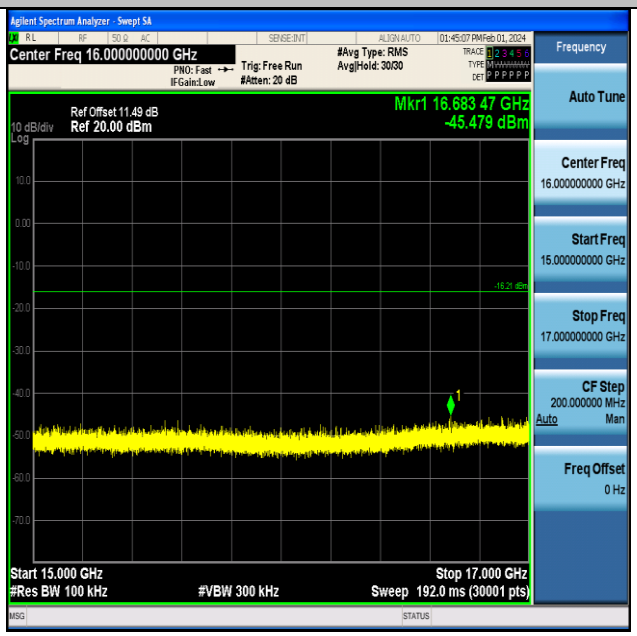
3DH5-Ant1-2480-9000~11000-PASS



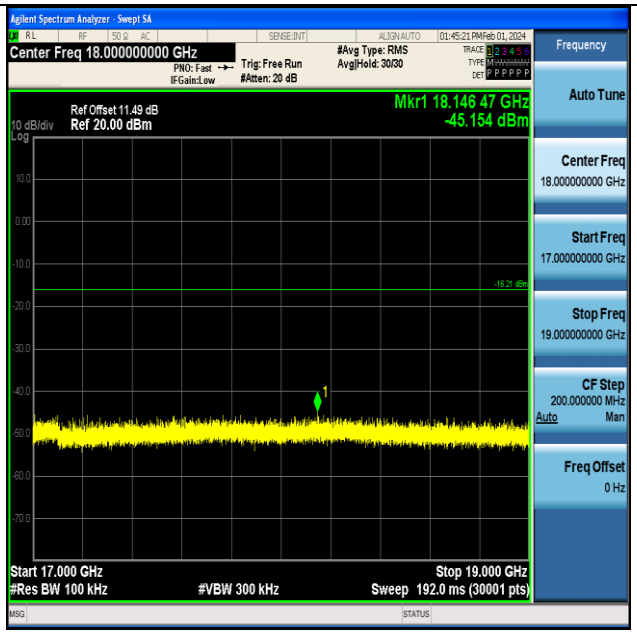
3DH5-Ant1-2480-11000~13000-PASS



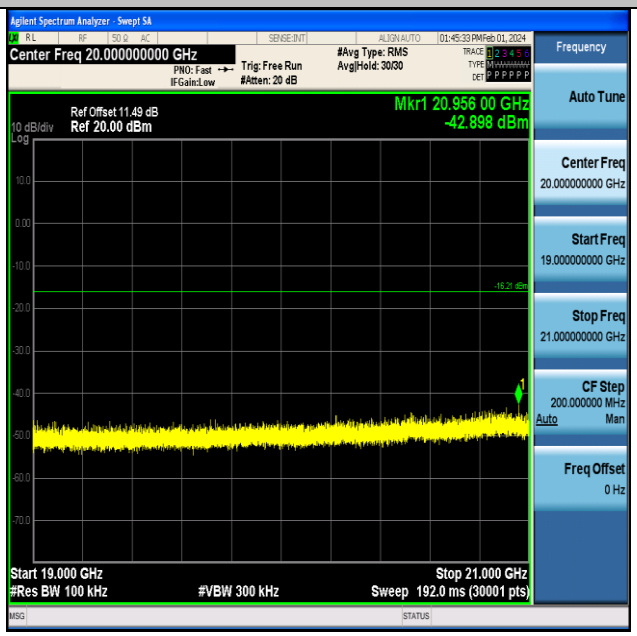
3DH5-Ant1-2480-13000~15000-PASS



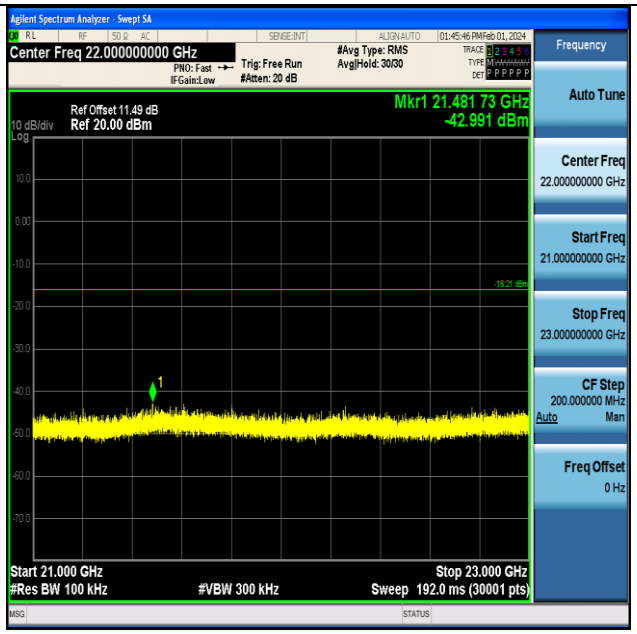
3DH5-Ant1-2480-15000~17000-PASS



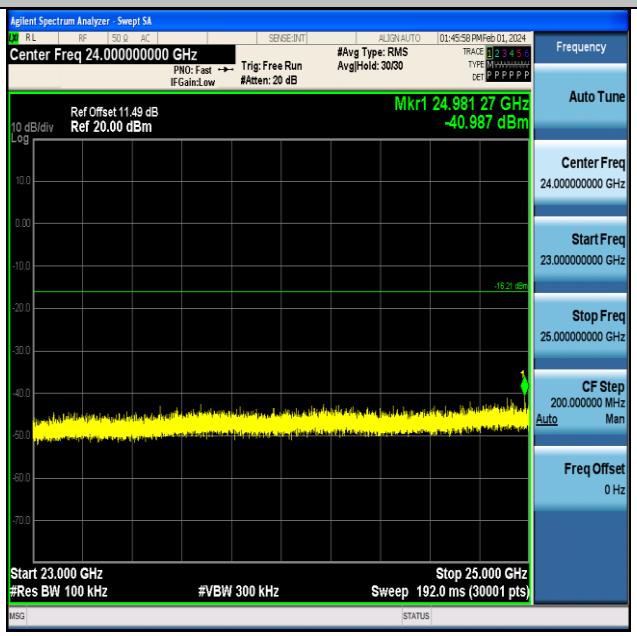
3DH5-Ant1-2480-17000~19000-PASS



3DH5-Ant1-2480-19000~21000-PASS



3DH5-Ant1-2480-21000~23000-PASS

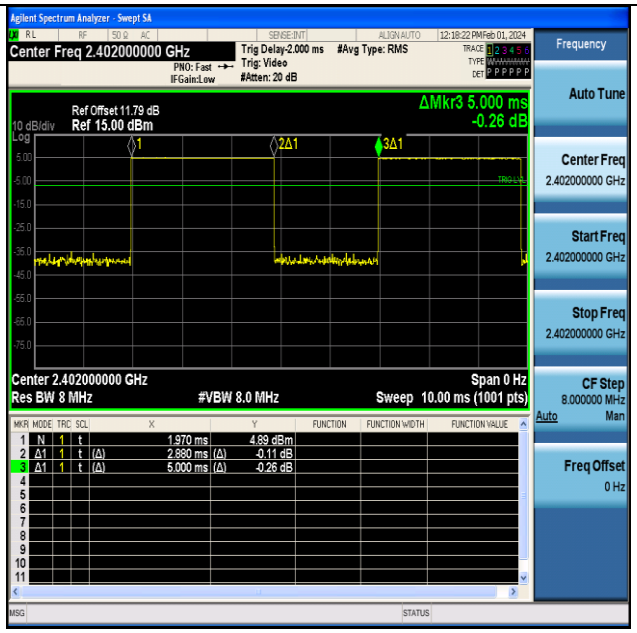


3DH5-Ant1-2480-23000~25000-PASS

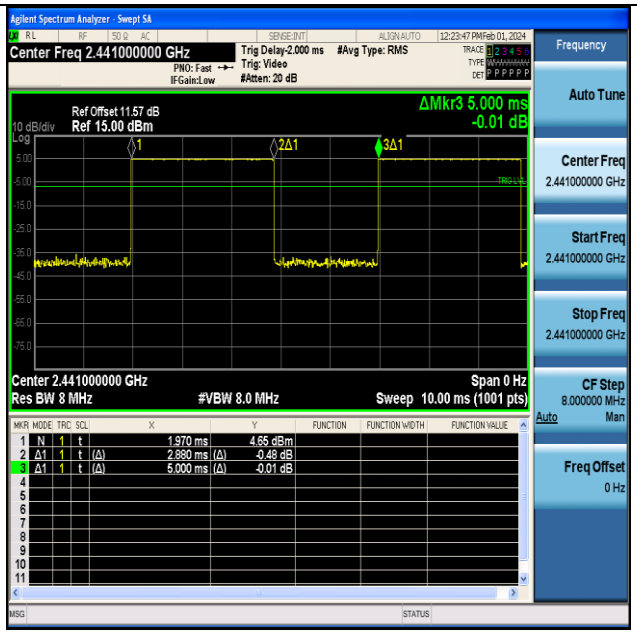
13 TEST RESULT-APPENDIX H: DUTY CYCLE

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	5.00	57.60	2.40
		2441	2.88	5.00	57.60	2.40
		2480	2.88	5.00	57.60	2.40
2DH5	Ant1	2402	2.89	5.00	57.80	2.38
		2441	2.88	5.00	57.60	2.40
		2480	2.89	5.00	57.80	2.38
3DH5	Ant1	2402	2.88	5.00	57.60	2.40
		2441	2.89	5.00	57.80	2.38
		2480	2.89	5.00	57.80	2.38

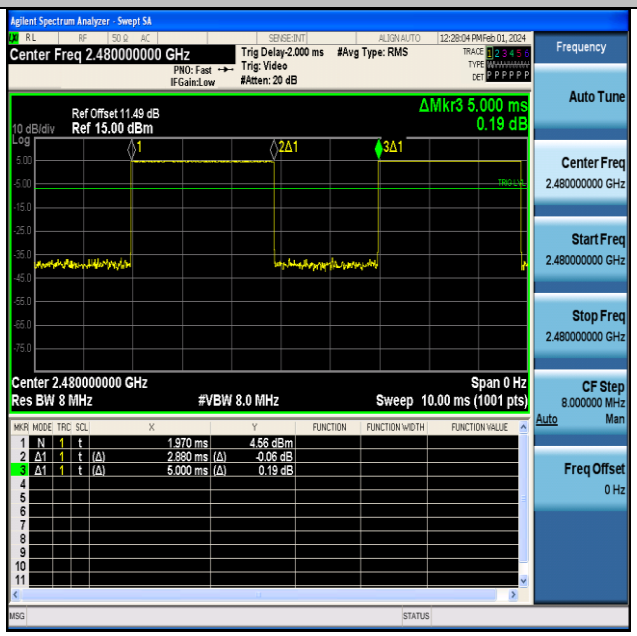
Test Graphs



NTNV-DH5-Ant1-2402

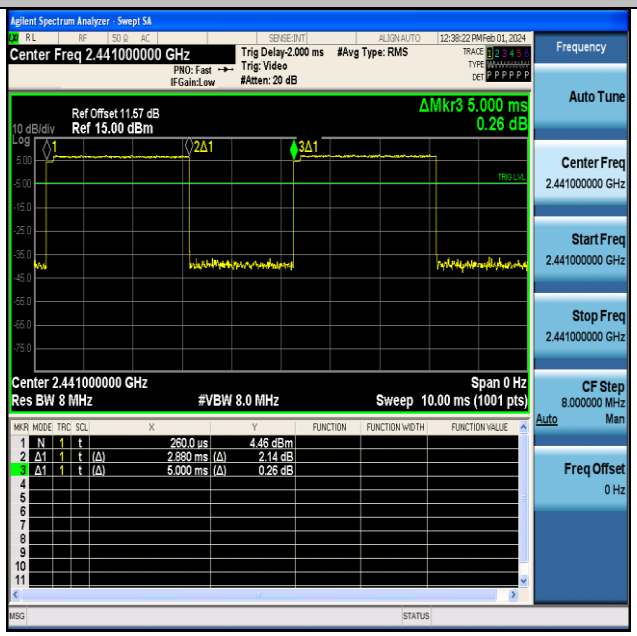


NTNV-DH5-Ant1-2441

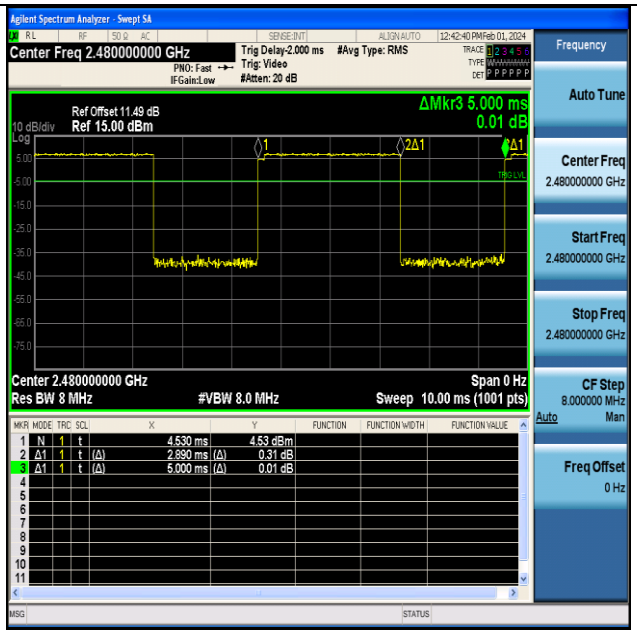


NTNV-DH5-Ant1-2480

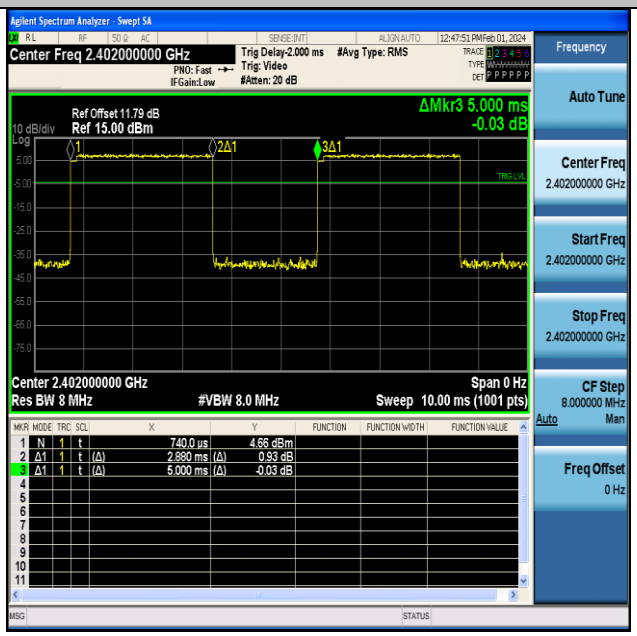
NTNV-2DH5-Ant1-2402



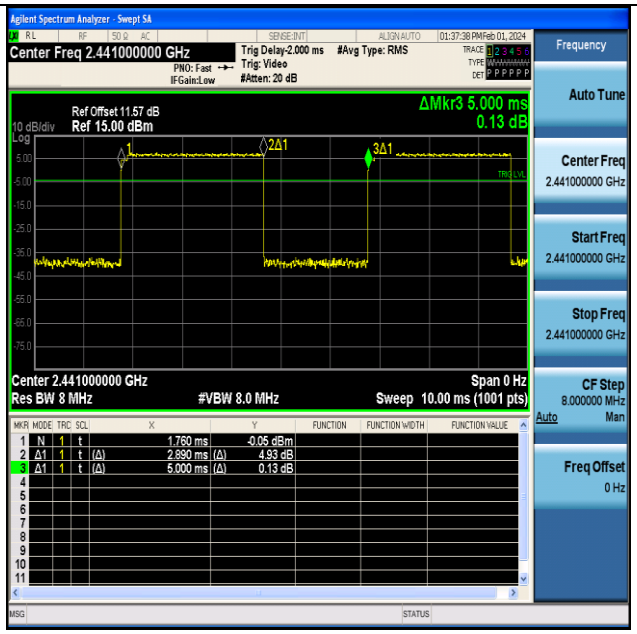
NTNV-2DH5-Ant1-2441



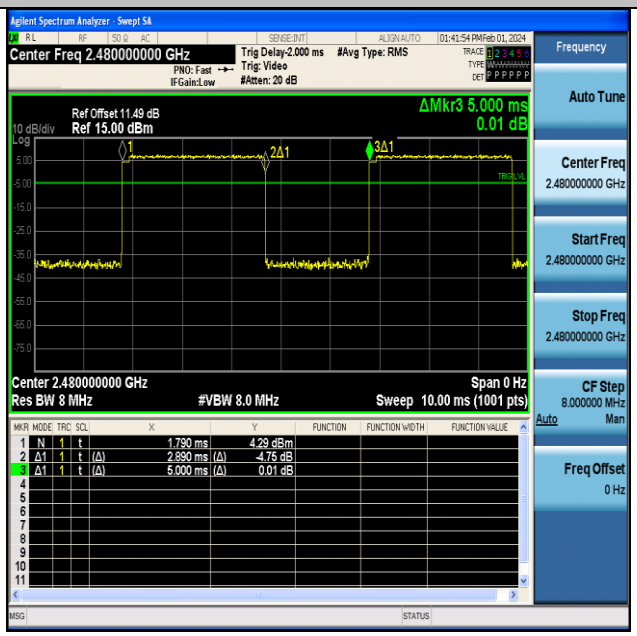
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



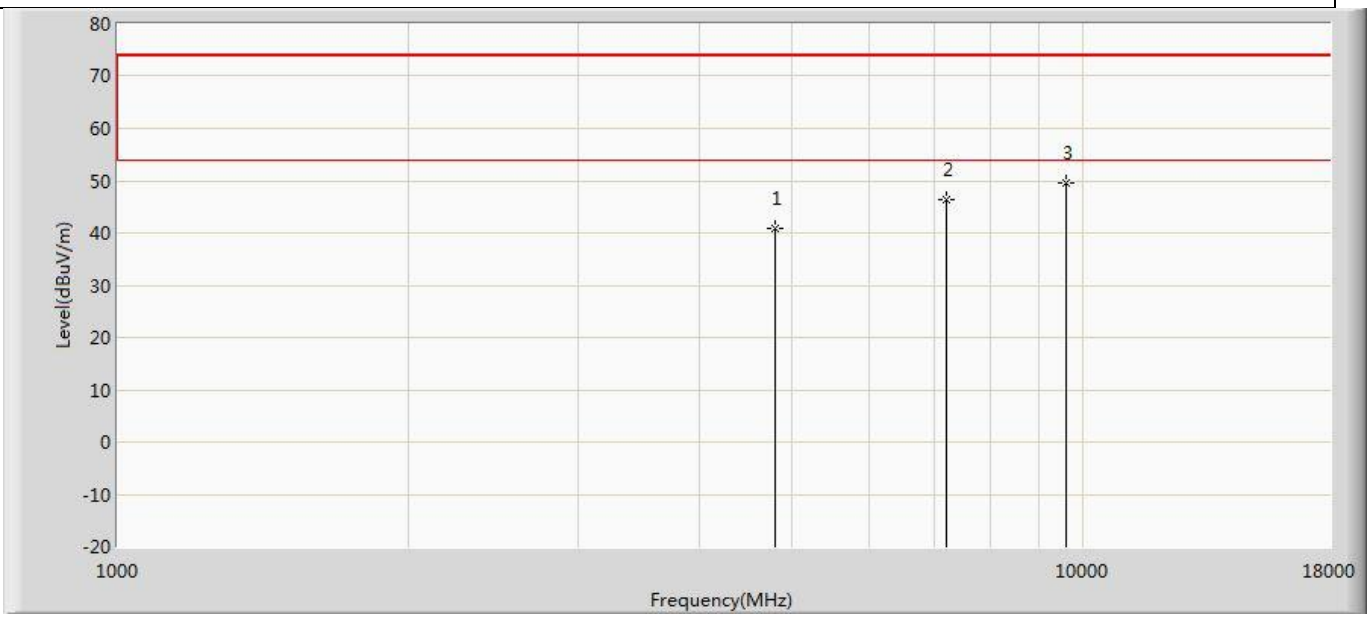
NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

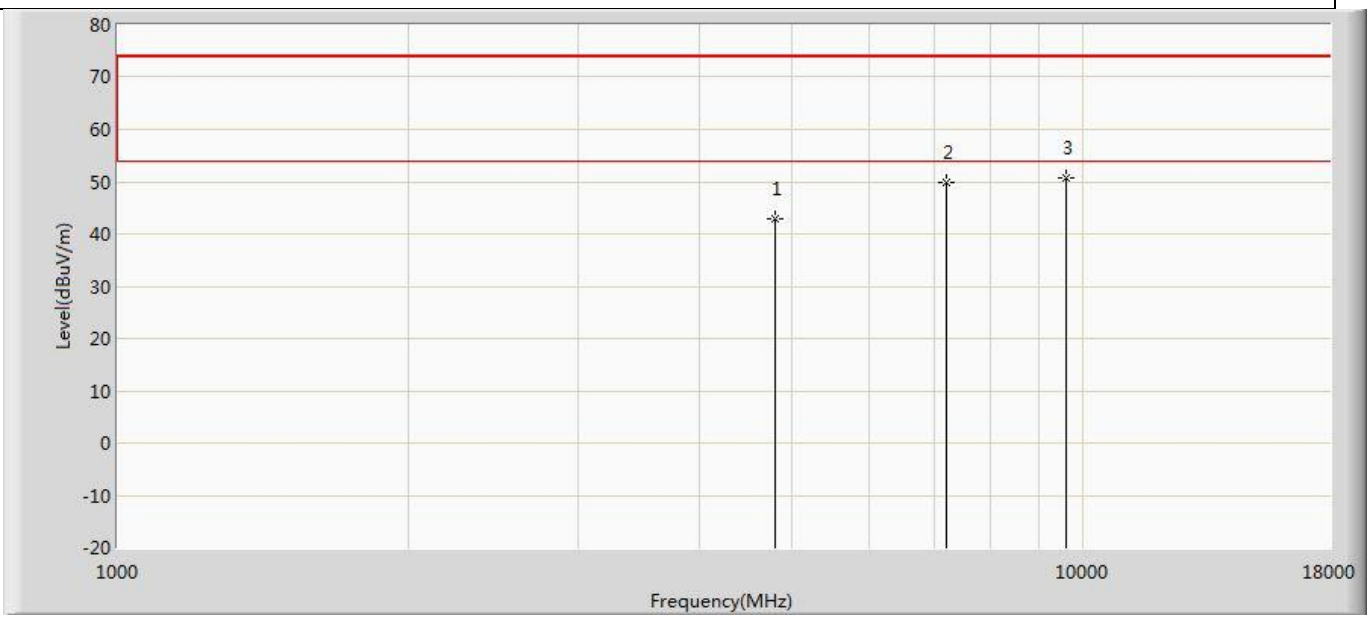
14 TEST RESULT-APPENDIX I: EMISSIONS IN RESTRICTED BAND

Profile: 2410570R	Page No.: 19
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



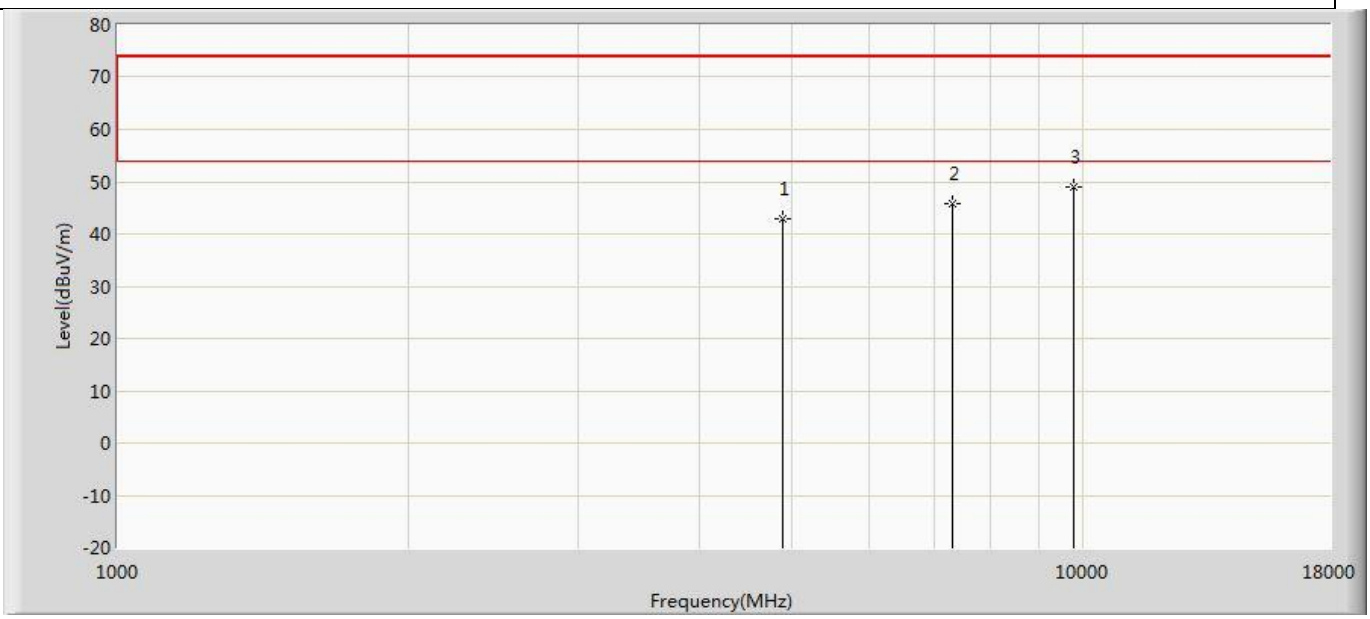
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	40.818	52.706	-33.182	74.000	-11.888	PK
2		7206.000	46.449	52.615	-27.551	74.000	-6.166	PK
3	*	9608.000	49.447	52.670	-24.553	74.000	-3.222	PK

Profile: 2410570R	Page No.: 20
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



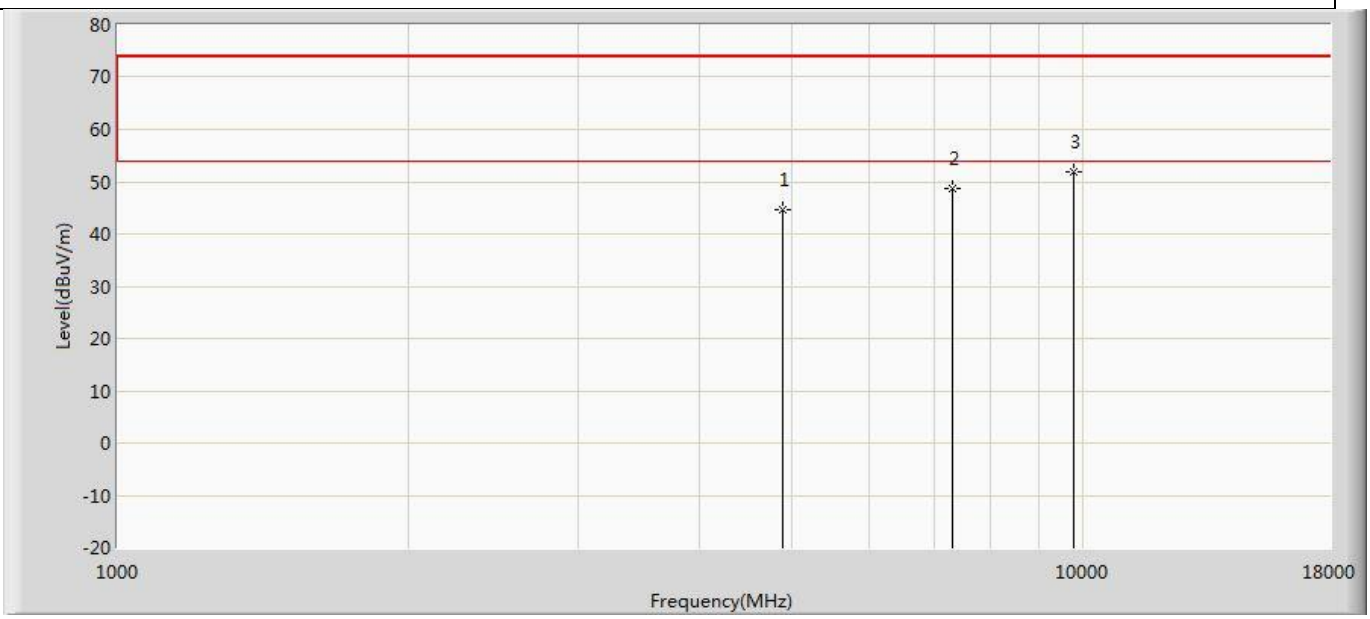
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	43.036	54.924	-30.964	74.000	-11.888	PK
2		7206.000	49.748	55.914	-24.252	74.000	-6.166	PK
3	*	9608.000	50.784	54.007	-23.216	74.000	-3.222	PK

Profile: 2410570R	Page No.: 21
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2441MHz by DH5	



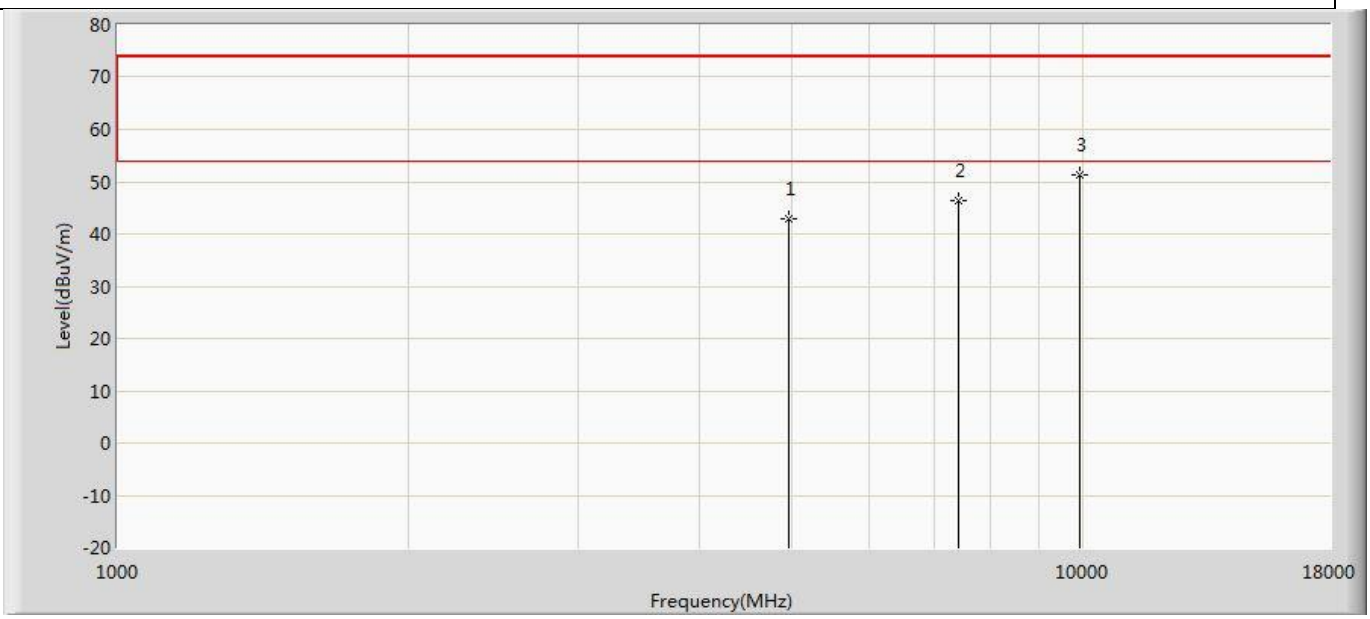
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.767	53.459	-31.233	74.000	-10.693	PK
2		7323.000	45.724	52.582	-28.276	74.000	-6.858	PK
3	*	9764.000	49.025	51.935	-24.975	74.000	-2.910	PK

Profile: 2410570R	Page No.: 22
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2441MHz by DH5	



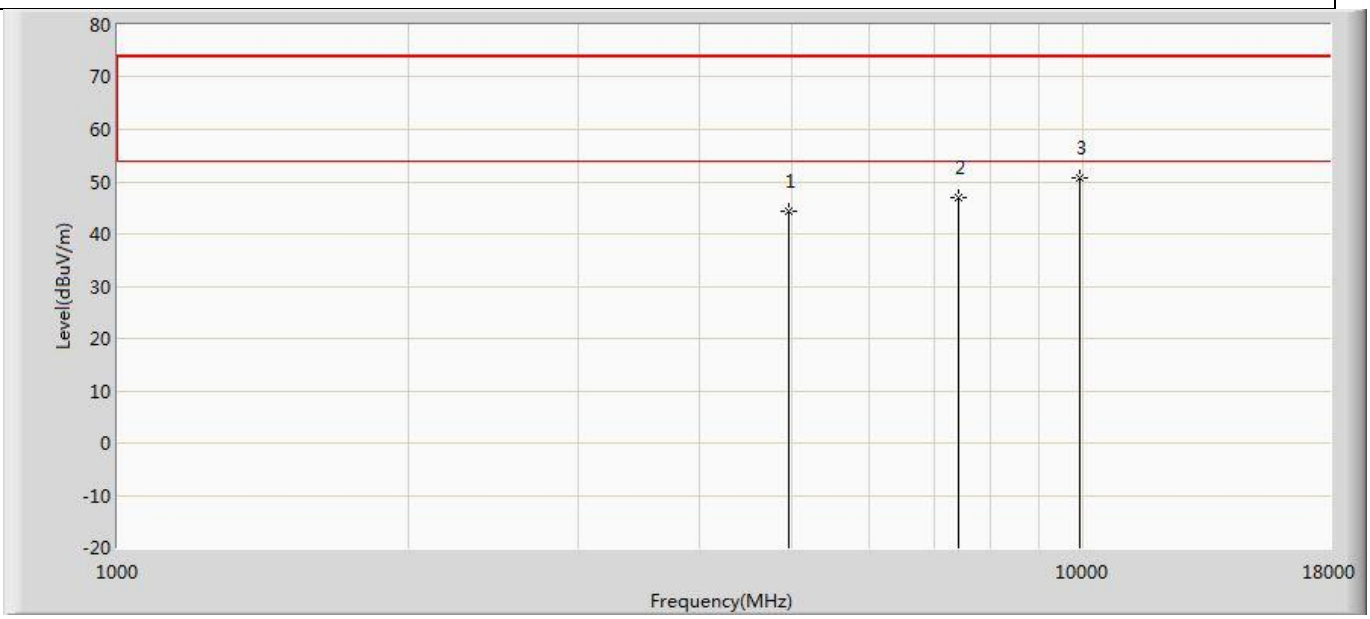
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	44.664	55.356	-29.336	74.000	-10.693	PK
2		7323.000	48.711	55.569	-25.289	74.000	-6.858	PK
3	*	9764.000	51.858	54.768	-22.142	74.000	-2.910	PK

Profile: 2410570R	Page No.: 23
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



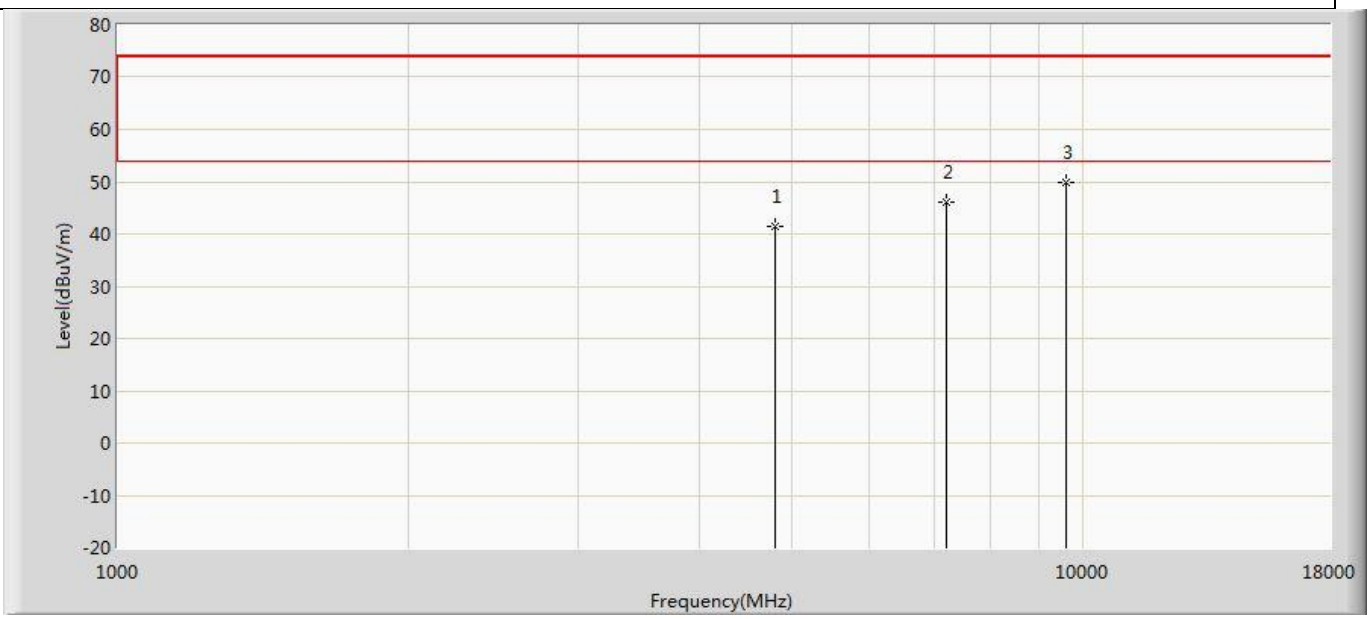
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.813	53.519	-31.187	74.000	-10.707	PK
2		7440.000	46.293	53.072	-27.707	74.000	-6.779	PK
3	*	9920.000	51.366	53.188	-22.634	74.000	-1.821	PK

Profile: 2410570R	Page No.: 24
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2480MHz by DH5	



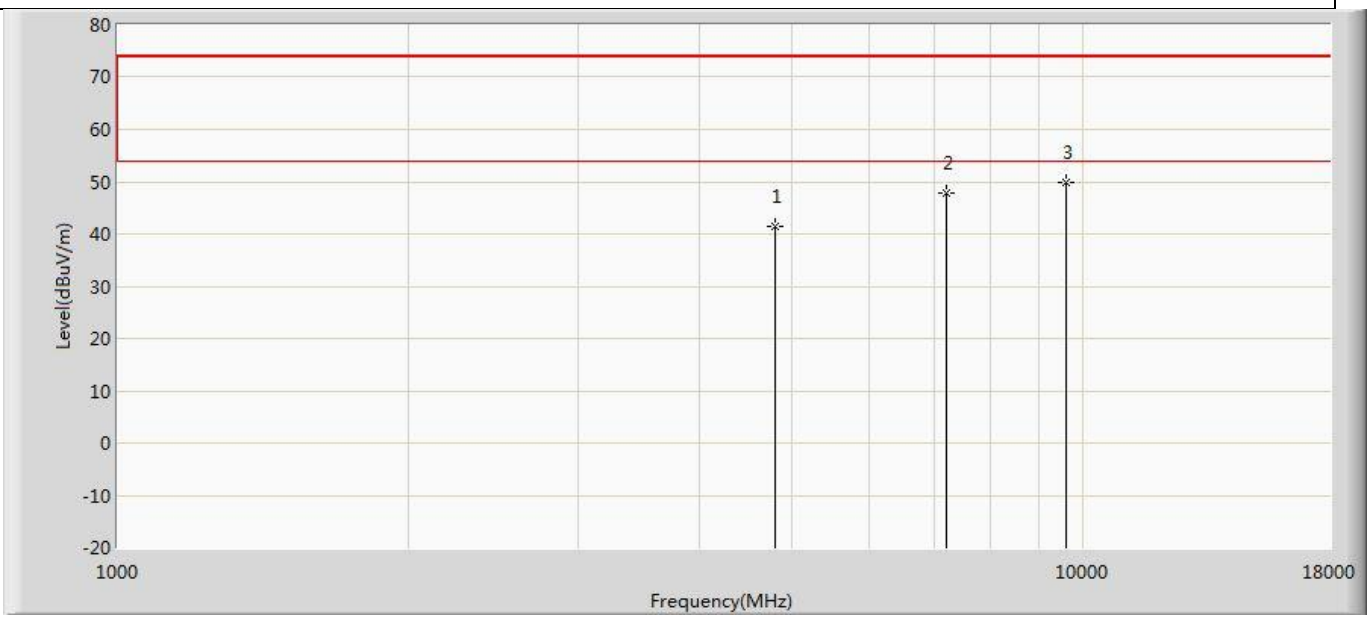
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	44.454	55.160	-29.546	74.000	-10.707	PK
2		7440.000	46.965	53.744	-27.035	74.000	-6.779	PK
3	*	9920.000	50.706	52.528	-23.294	74.000	-1.821	PK

Profile: 2410570R	Page No.: 25
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



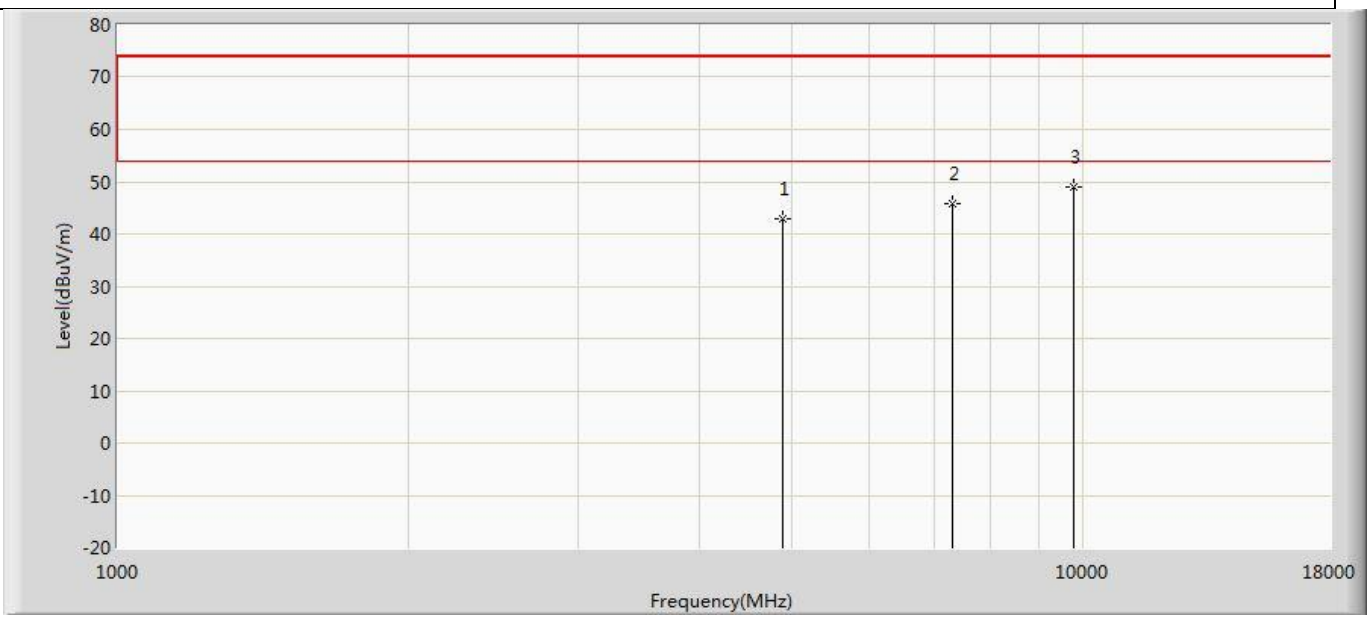
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	41.478	53.366	-32.522	74.000	-11.888	PK
2		7206.000	46.196	52.362	-27.804	74.000	-6.166	PK
3	*	9608.000	49.838	53.061	-24.162	74.000	-3.222	PK

Profile: 2410570R	Page No.: 26
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 2402MHz by 2DH5	



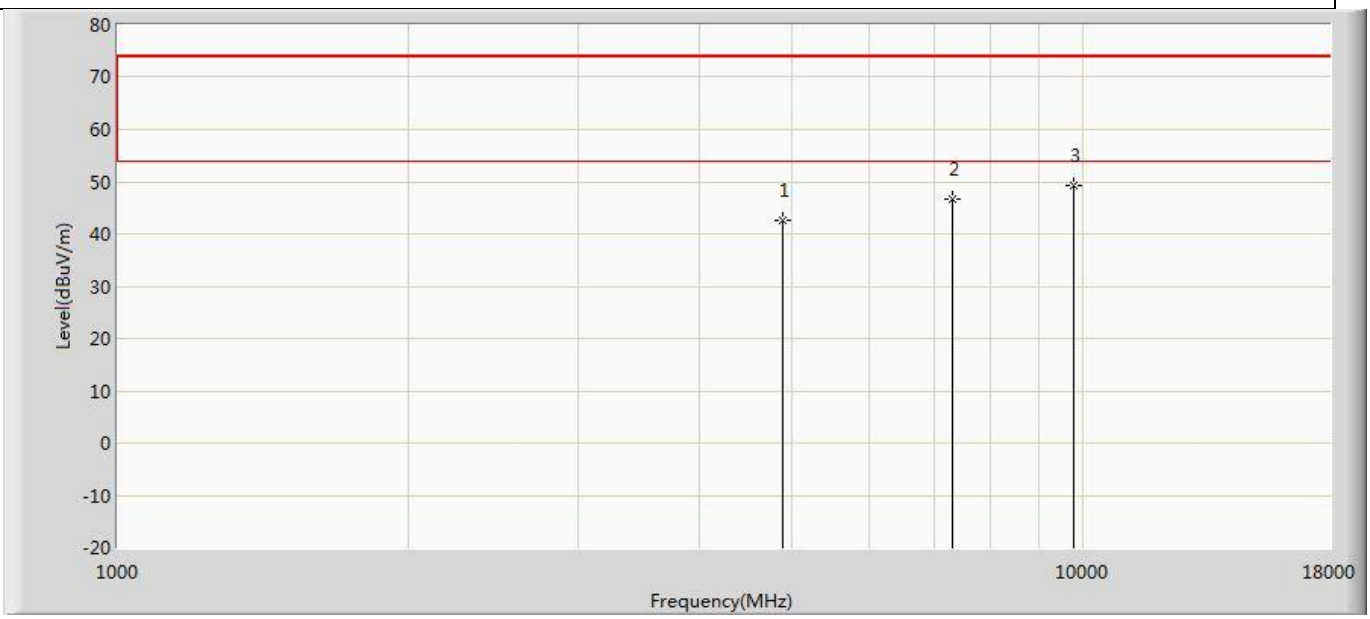
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	41.318	53.206	-32.682	74.000	-11.888	PK
2		7206.000	47.925	54.091	-26.075	74.000	-6.166	PK
3	*	9608.000	49.994	53.217	-24.006	74.000	-3.222	PK

Profile: 2410570R	Page No.: 27
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 2441MHz by 2DH5	



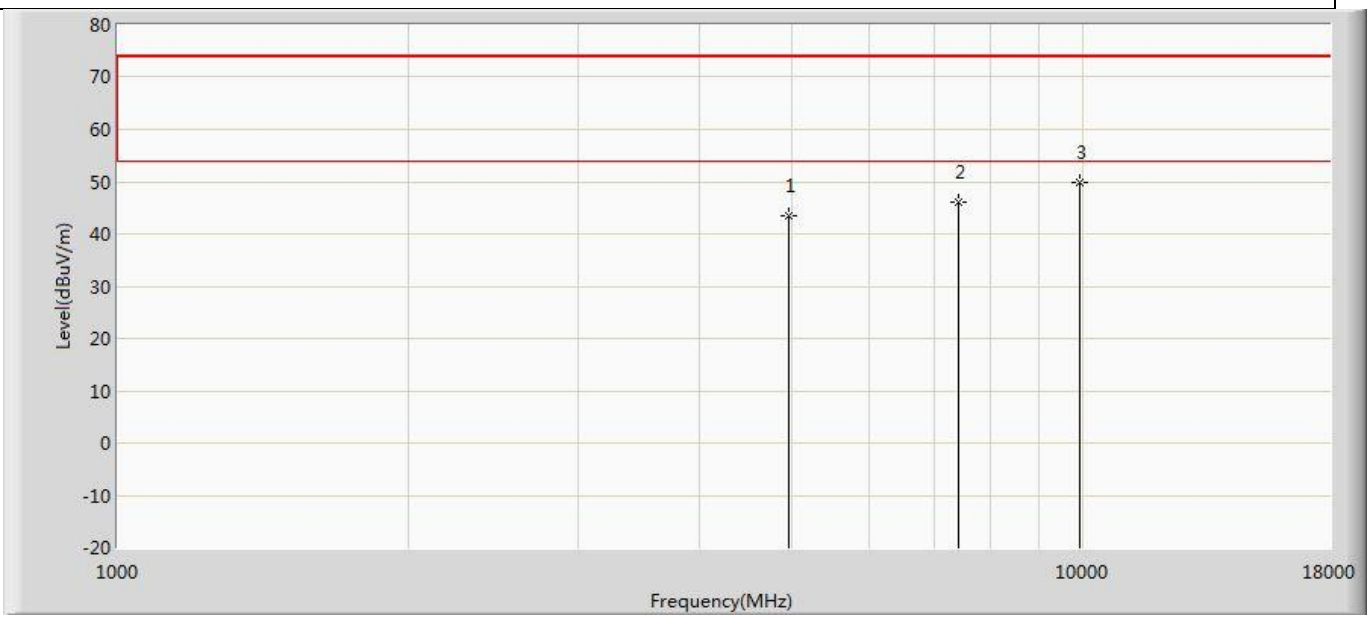
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.837	53.529	-31.163	74.000	-10.693	PK
2		7323.000	45.847	52.705	-28.153	74.000	-6.858	PK
3	*	9764.000	49.073	51.983	-24.927	74.000	-2.910	PK

Profile: 2410570R	Page No.: 28
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 2441MHz by 2DH5	



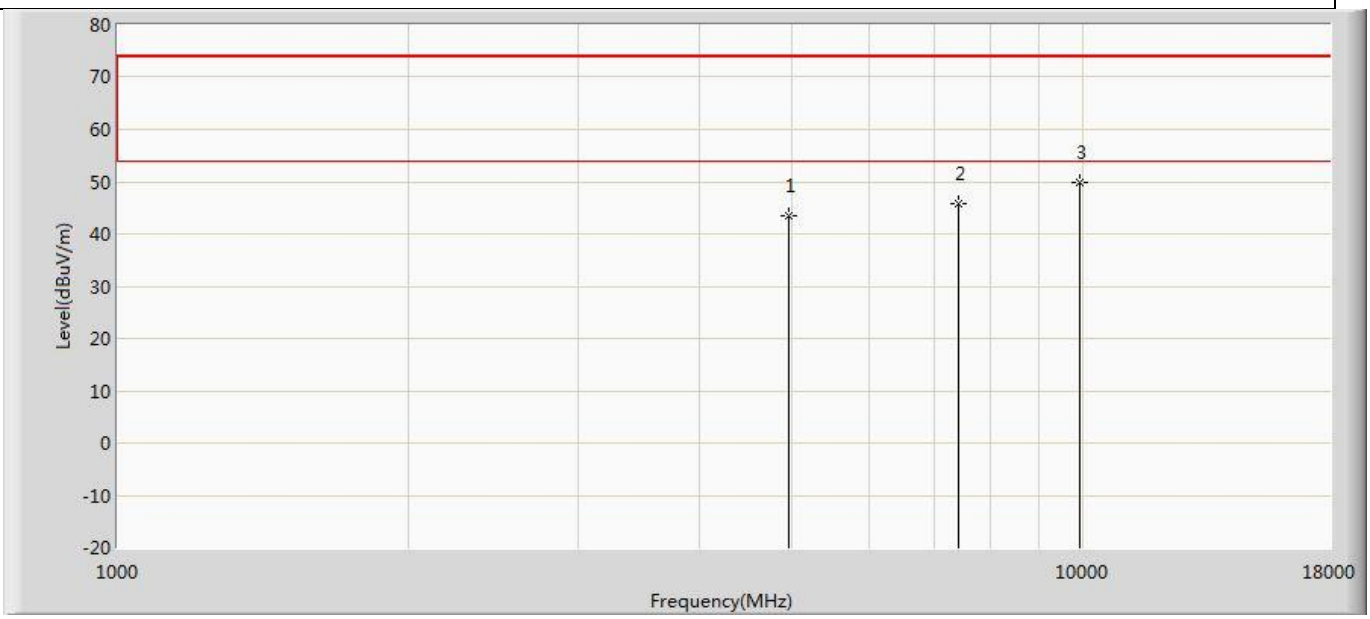
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	42.593	53.285	-31.407	74.000	-10.693	PK
2		7323.000	46.665	53.523	-27.335	74.000	-6.858	PK
3	*	9764.000	49.364	52.274	-24.636	74.000	-2.910	PK

Profile: 2410570R	Page No.: 29
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



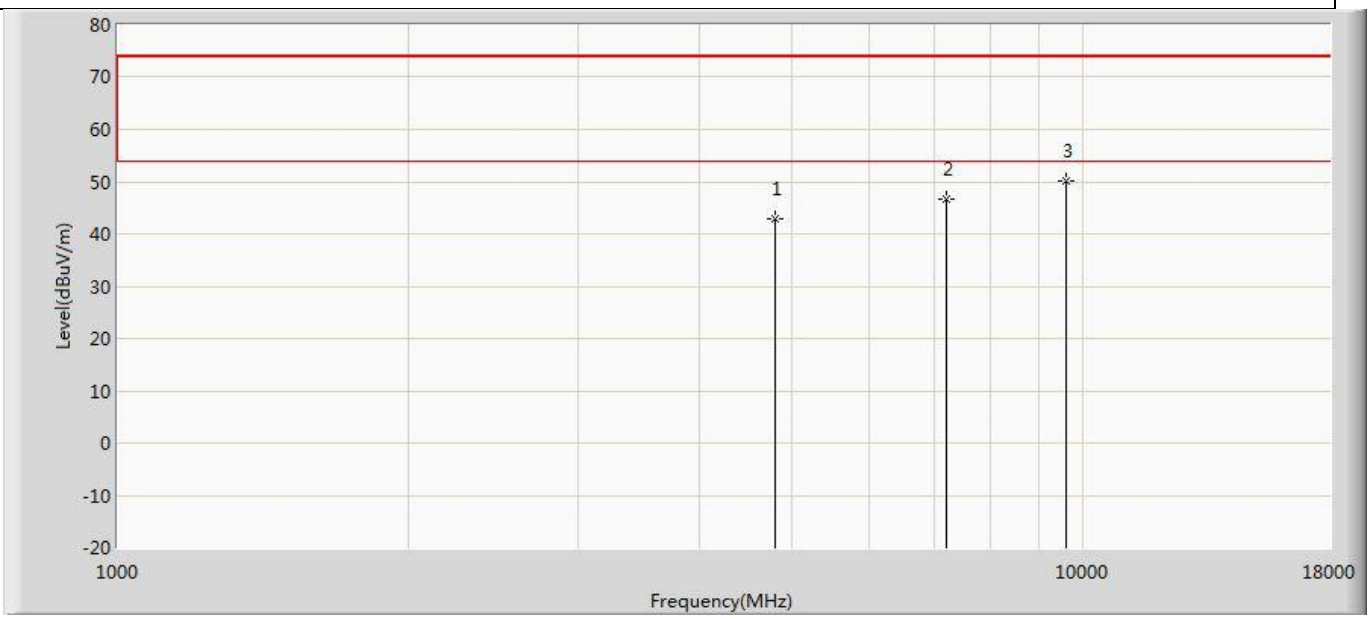
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.616	54.322	-30.384	74.000	-10.707	PK
2		7440.000	46.008	52.787	-27.992	74.000	-6.779	PK
3	*	9920.000	49.761	51.583	-24.239	74.000	-1.821	PK

Profile: 2410570R	Page No.: 30
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 2480MHz by 2DH5	



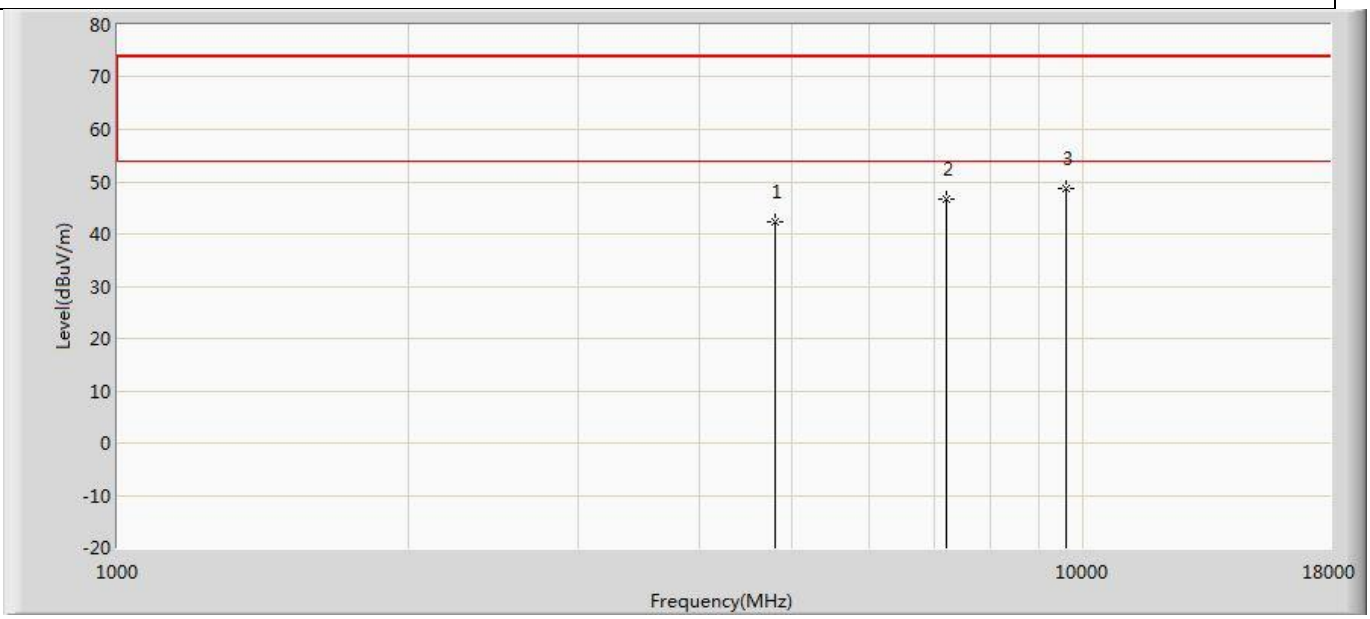
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.609	54.315	-30.391	74.000	-10.707	PK
2		7440.000	45.878	52.657	-28.122	74.000	-6.779	PK
3	*	9920.000	49.798	51.620	-24.202	74.000	-1.821	PK

Profile: 2410570R	Page No.: 31
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



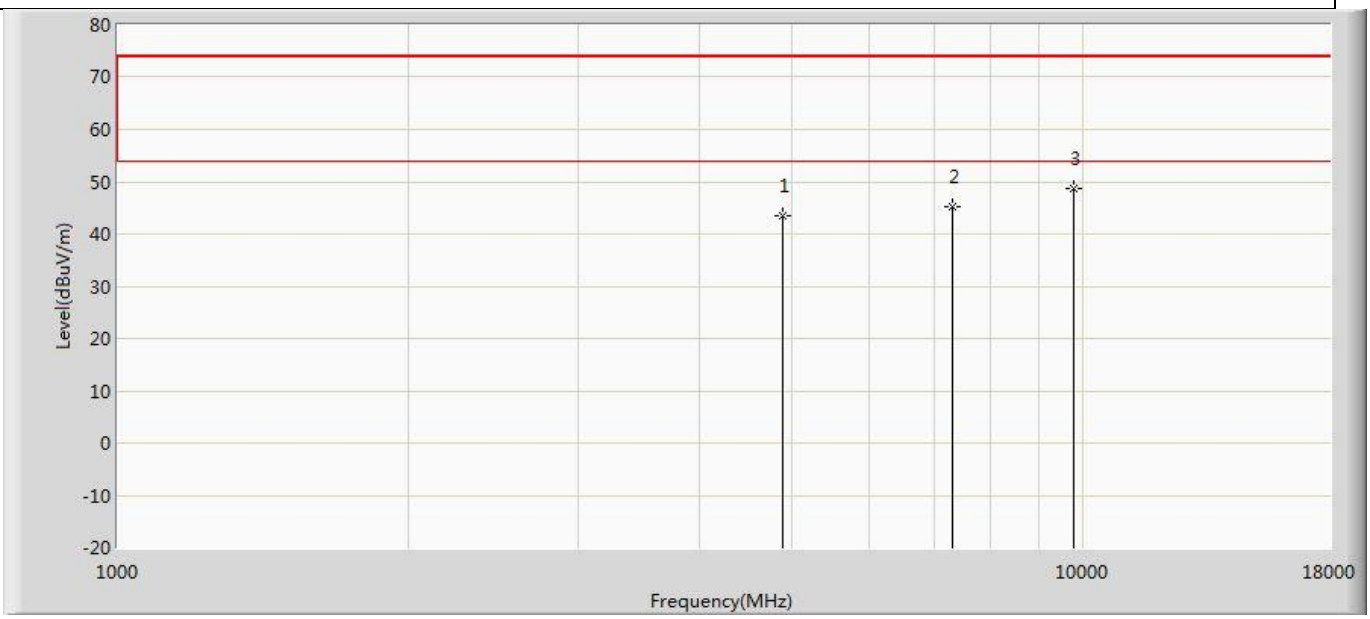
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	42.979	54.867	-31.021	74.000	-11.888	PK
2		7206.000	46.780	52.946	-27.220	74.000	-6.166	PK
3	*	9608.000	50.261	53.484	-23.739	74.000	-3.222	PK

Profile: 2410570R	Page No.: 32
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 2402MHz by 3DH5	



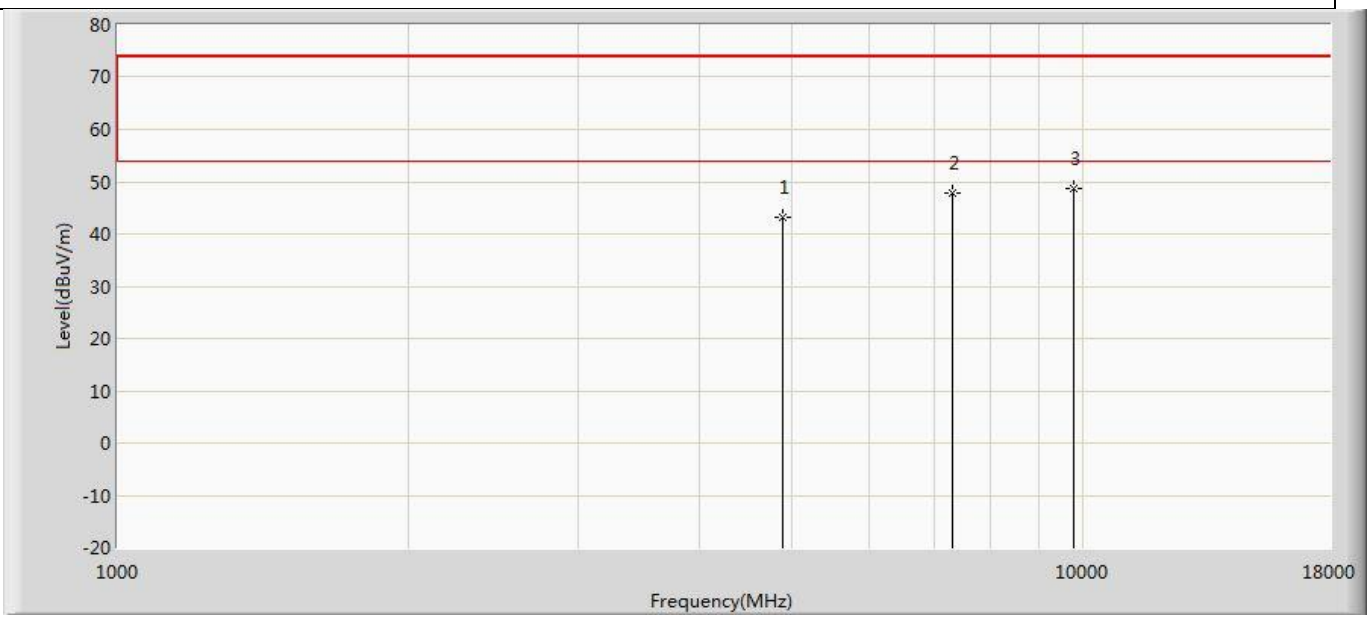
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	42.370	54.258	-31.630	74.000	-11.888	PK
2		7206.000	46.713	52.879	-27.287	74.000	-6.166	PK
3	*	9608.000	48.754	51.977	-25.246	74.000	-3.222	PK

Profile: 2410570R	Page No.: 33
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 2441MHz by 3DH5	



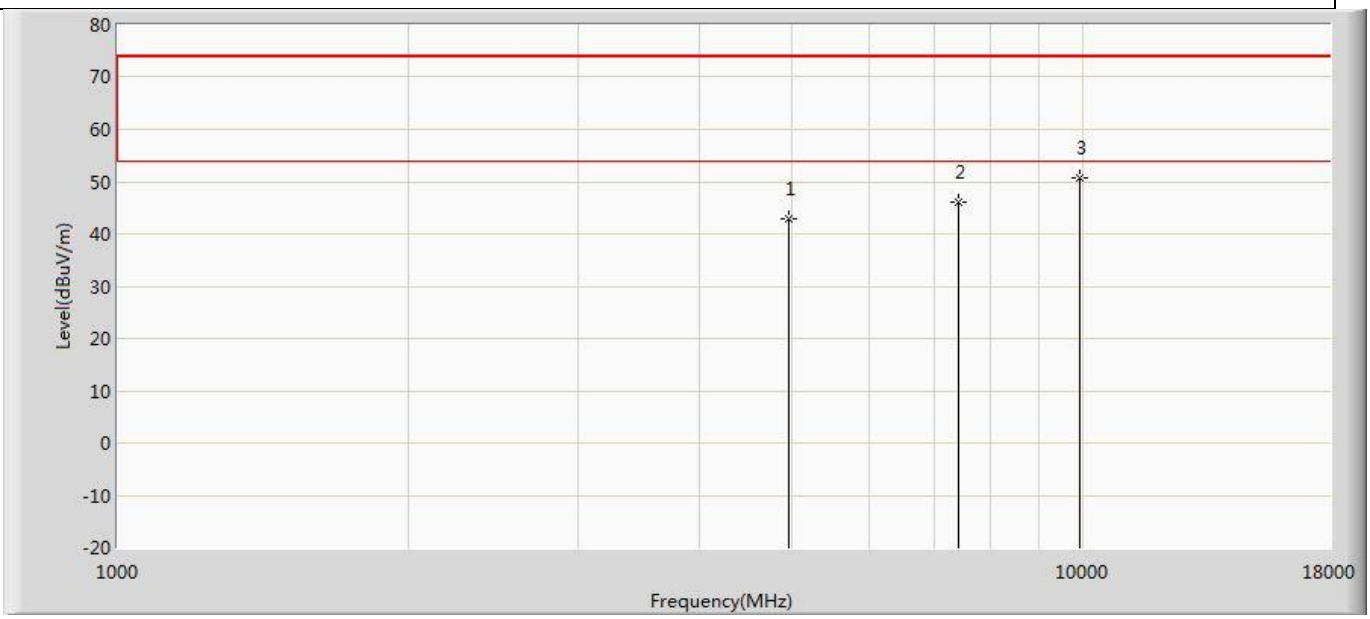
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	43.379	54.071	-30.621	74.000	-10.693	PK
2		7323.000	45.342	52.200	-28.658	74.000	-6.858	PK
3	*	9764.000	48.652	51.562	-25.348	74.000	-2.910	PK

Profile: 2410570R	Page No.: 34
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 2441MHz by 3DH5	



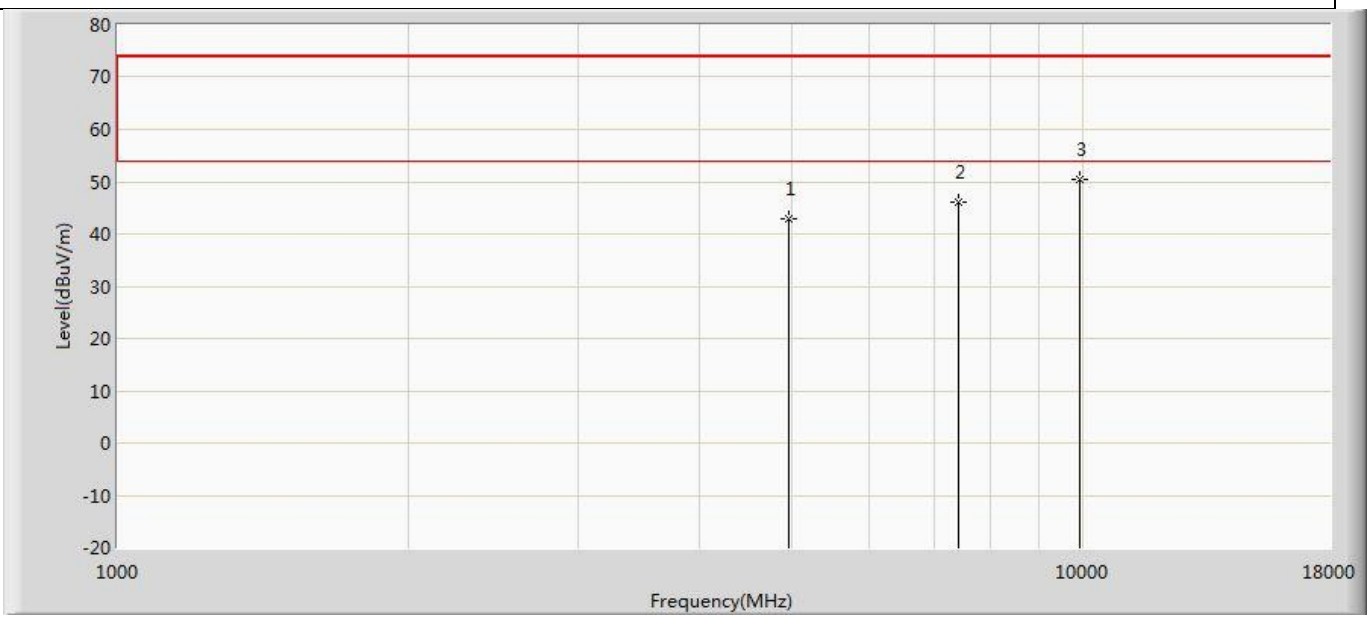
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4882.000	43.251	53.943	-30.749	74.000	-10.693	PK
2		7323.000	47.837	54.695	-26.163	74.000	-6.858	PK
3	*	9764.000	48.728	51.638	-25.272	74.000	-2.910	PK

Profile: 2410570R	Page No.: 35
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.976	53.682	-31.024	74.000	-10.707	PK
2		7440.000	46.040	52.819	-27.960	74.000	-6.779	PK
3	*	9920.000	50.581	52.403	-23.419	74.000	-1.821	PK

Profile: 2410570R	Page No.: 36
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/03 - 08:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 2480MHz by 3DH5	



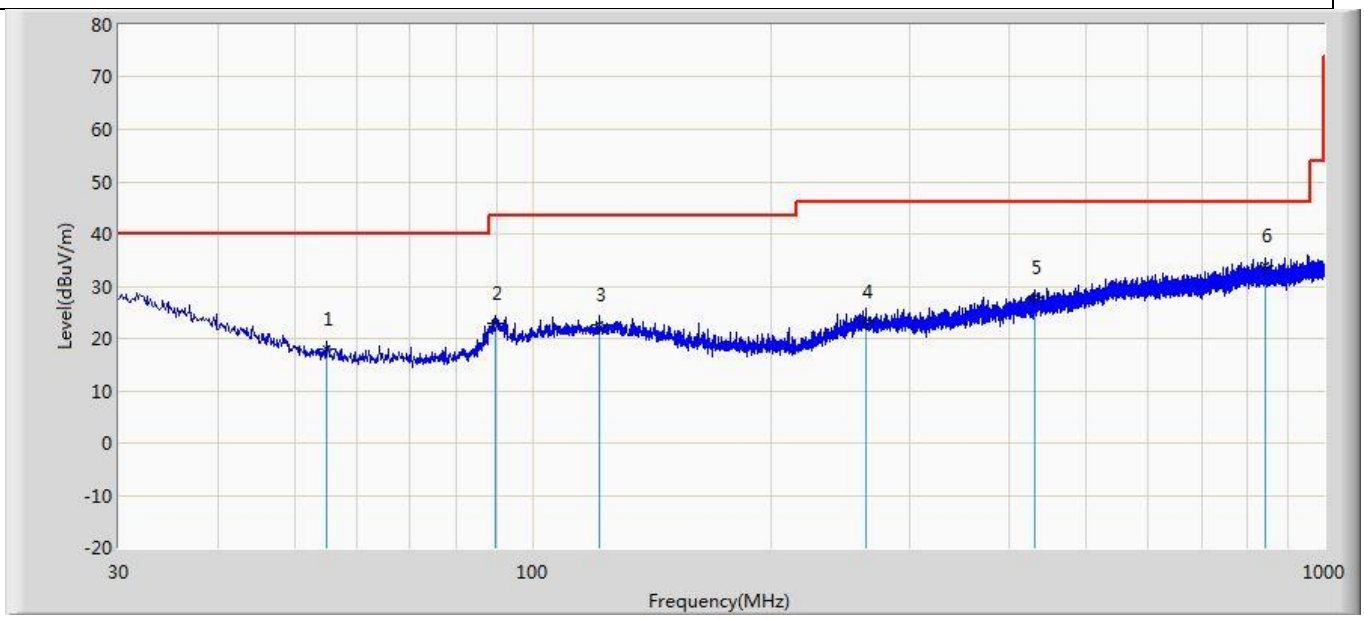
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	42.881	53.587	-31.119	74.000	-10.707	PK
2		7440.000	46.052	52.831	-27.948	74.000	-6.779	PK
3	*	9920.000	50.332	52.154	-23.668	74.000	-1.821	PK

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.

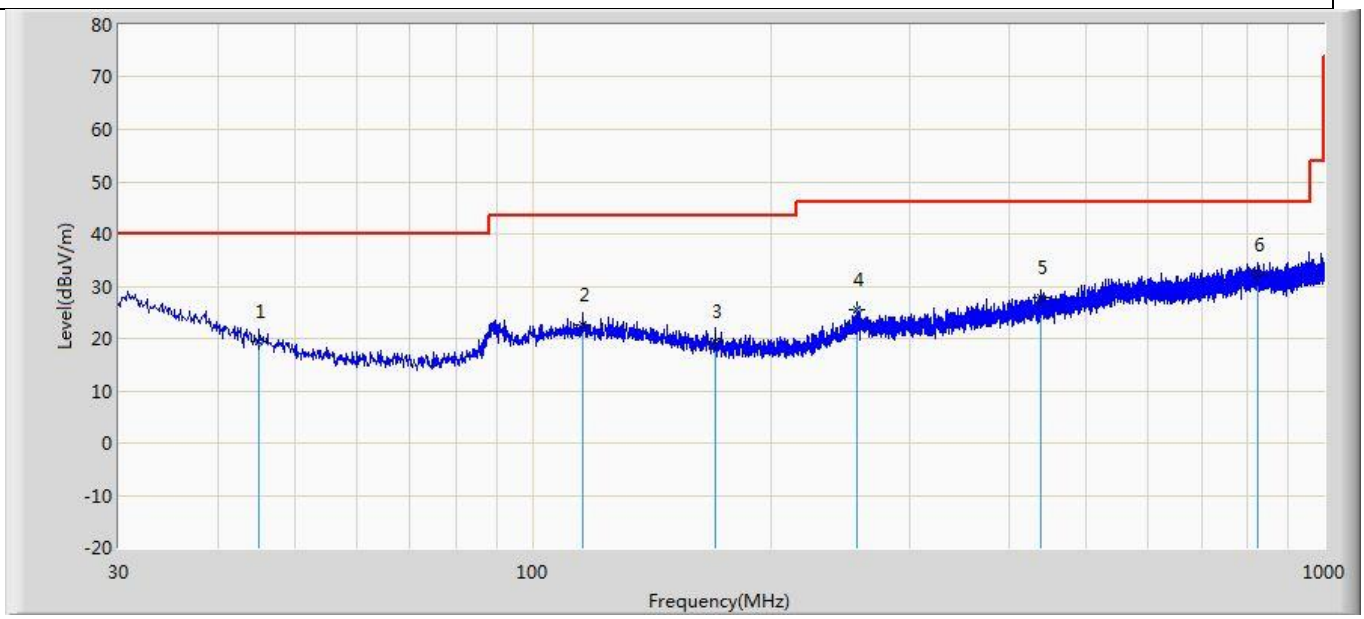
The worst case of Radiated Emission below 1GHz：

Profile: 2410570R	Page No.: 81
Engineer: Pengchengyang	
Site: AC2	Time: 2024/02/06 - 11:51
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		54.856	17.920	4.226	-22.080	40.000	13.694	QP
2		89.897	22.920	7.055	-20.580	43.500	15.864	QP
3		121.301	22.632	3.305	-20.868	43.500	19.327	QP
4		263.649	23.158	2.484	-22.842	46.000	20.674	QP
5		431.580	27.833	3.564	-18.167	46.000	24.269	QP
6	*	844.557	33.862	4.548	-12.138	46.000	29.313	QP

Profile: 2410570R	Page No.: 82
Engineer: Pengchengyang	
Site: AC2	Time: 2024/02/06 - 11:51
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 2402MHz by DH5	



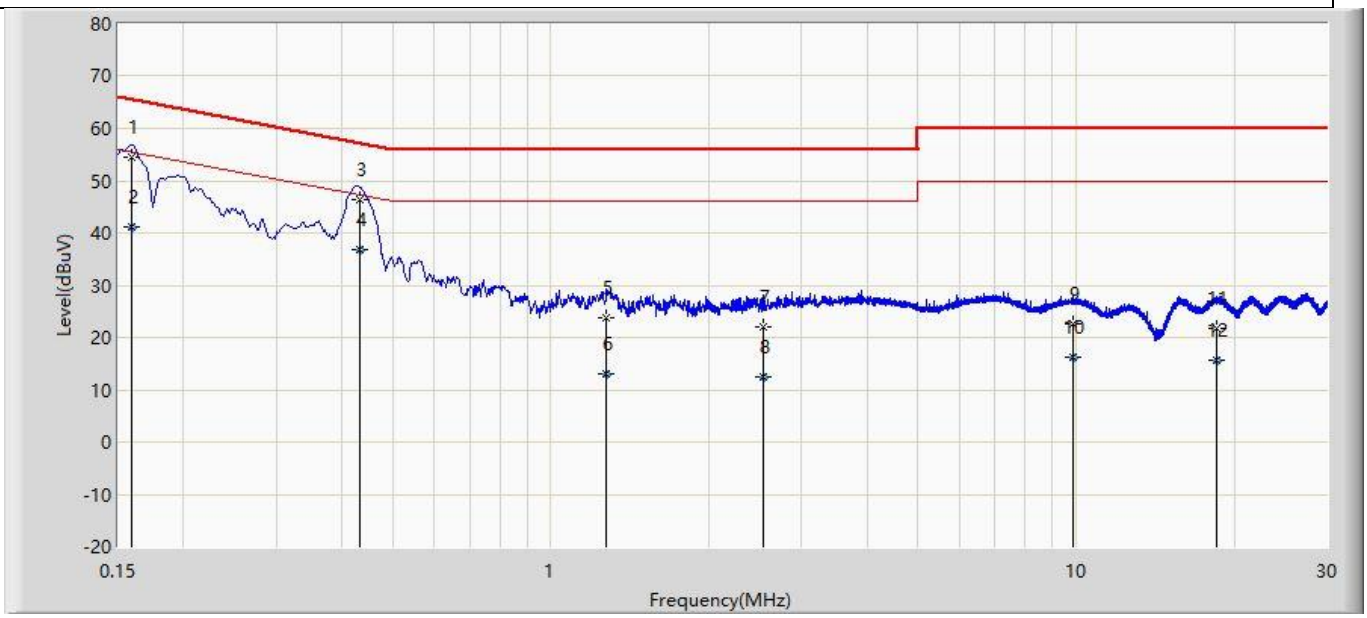
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		45.156	19.548	2.623	-20.452	40.000	16.924	QP
2		115.845	22.569	3.298	-20.931	43.500	19.271	QP
3		170.408	19.298	2.556	-24.202	43.500	16.742	QP
4		256.980	25.620	5.059	-20.380	46.000	20.561	QP
5		438.006	27.853	3.457	-18.147	46.000	24.396	QP
6	*	825.279	32.265	2.906	-13.735	46.000	29.360	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

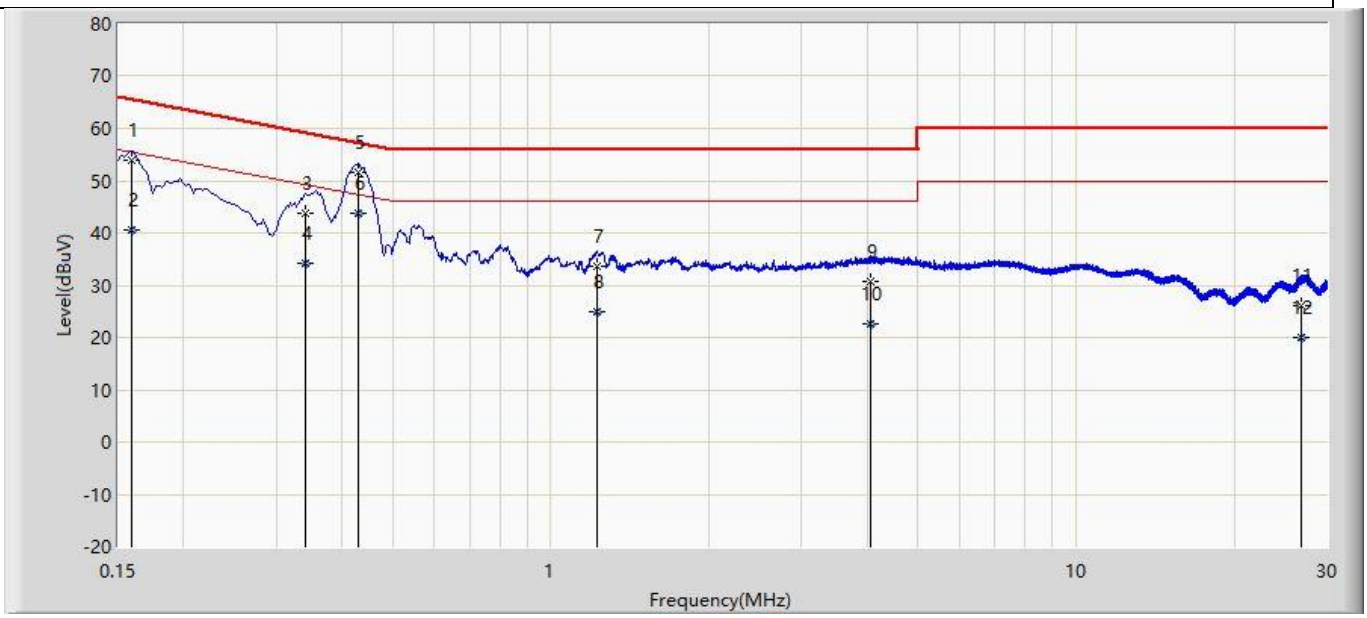
15 TEST RESULT-APPENDIX J: AC POWER LINE CONDUCTED EMISSION

Profile: 2410570R	Page No.: 35
Engineer: Pengchengyang	
Site: TR1	Time: 2024/02/01 - 08:38
Limit: FCC_Part 15.107_CE_AC Power_Class B	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode: Line	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.159	54.495	44.870	-11.021	65.516	9.624	QP
2		0.159	41.083	31.459	-14.433	55.516	9.624	AV
3		0.433	46.274	36.640	-10.912	57.185	9.633	QP
4	*	0.433	36.865	27.232	-10.320	47.185	9.633	AV
5		1.275	23.863	14.186	-32.137	56.000	9.677	QP
6		1.275	12.954	3.277	-33.046	46.000	9.677	AV
7		2.542	21.925	12.216	-34.075	56.000	9.708	QP
8		2.542	12.458	2.749	-33.542	46.000	9.708	AV
9		9.872	22.644	12.776	-37.356	60.000	9.868	QP
10		9.872	16.300	6.433	-33.700	50.000	9.868	AV
11		18.474	21.834	11.699	-38.166	60.000	10.135	QP
12		18.474	15.696	5.562	-34.304	50.000	10.135	AV

Profile: 2410570R	Page No.: 36
Engineer: Pengchengyang	
Site: TR1	Time: 2024/02/01 - 08:38
Limit: FCC_Part 15.107_CE_AC Power_Class B	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode: Neutral	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.159	54.037	44.407	-11.479	65.516	9.630	QP
2		0.159	40.531	30.901	-14.985	55.516	9.630	AV
3		0.341	43.767	34.128	-15.406	59.173	9.639	QP
4		0.341	34.093	24.454	-15.080	49.173	9.639	AV
5		0.429	51.586	41.943	-5.686	57.272	9.643	QP
6	*	0.429	43.673	34.030	-3.599	47.272	9.643	AV
7		1.223	33.512	23.836	-22.488	56.000	9.676	QP
8		1.223	25.039	15.363	-20.961	46.000	9.676	AV
9		4.054	30.681	20.930	-25.319	56.000	9.751	QP
10		4.054	22.742	12.991	-23.258	46.000	9.751	AV
11		26.761	25.946	15.831	-34.054	60.000	10.115	QP
12		26.761	20.018	9.903	-29.982	50.000	10.115	AV

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

The End