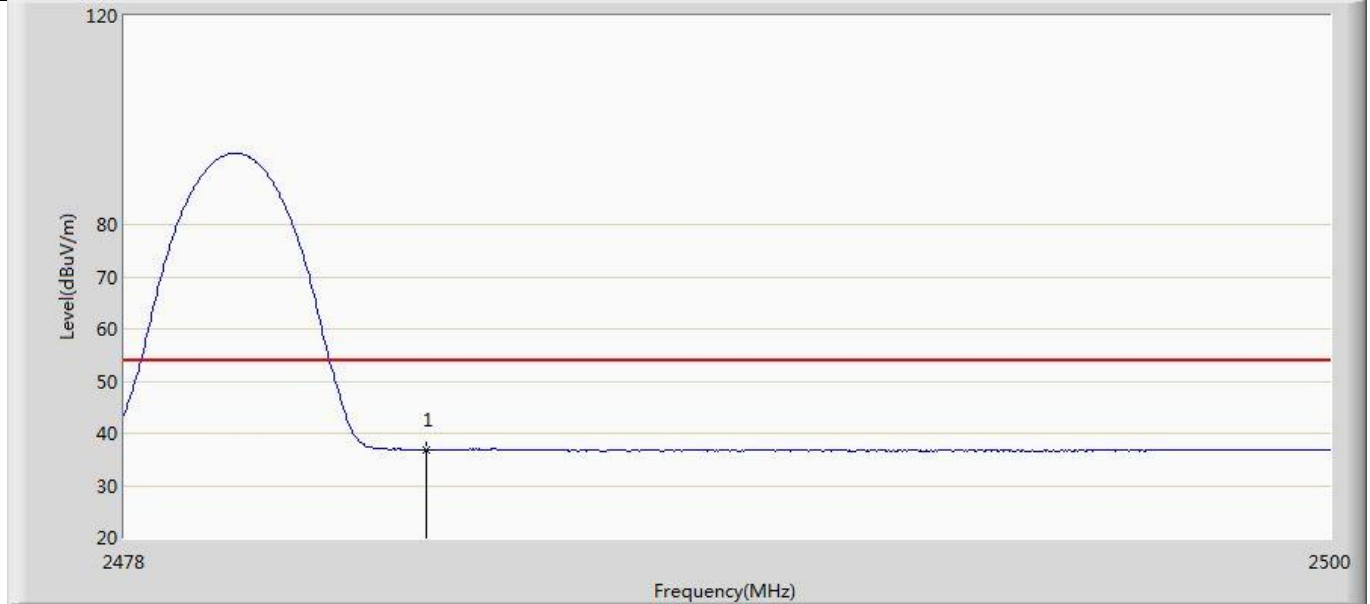
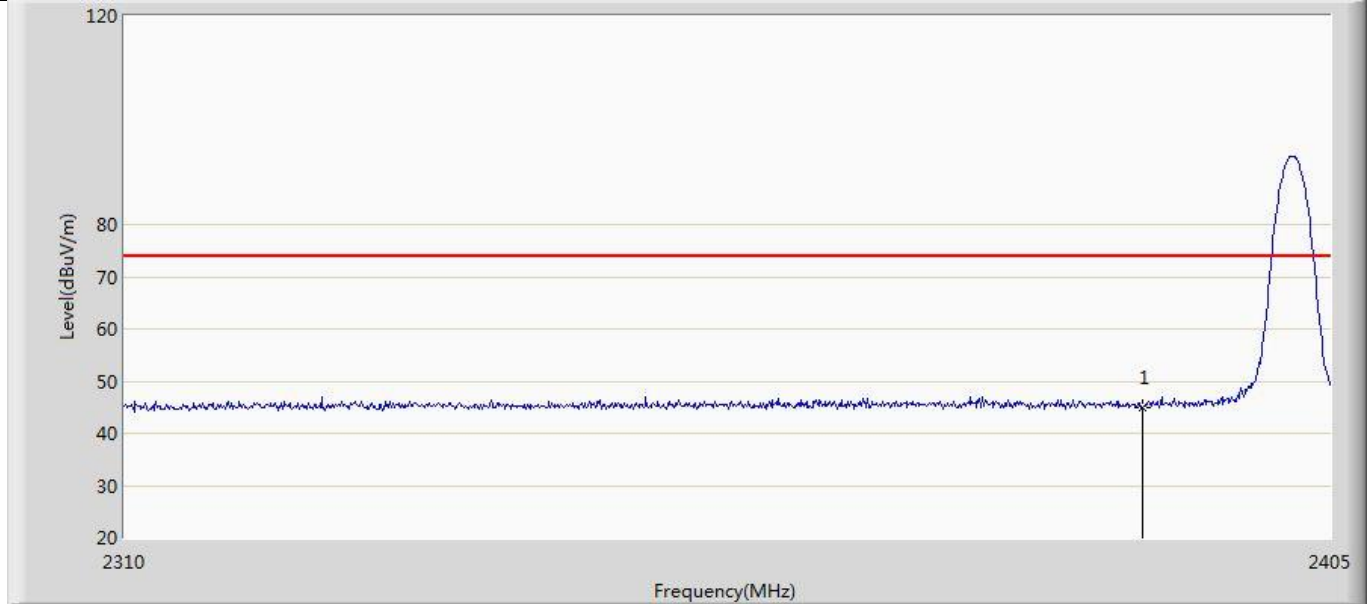


Profile: 2480841R	Page No.: 8
Engineer: Yuliu	
Site: AC5	Time: 2024/09/05 - 10:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 1 : Transmit at 2480MHz by DH5	



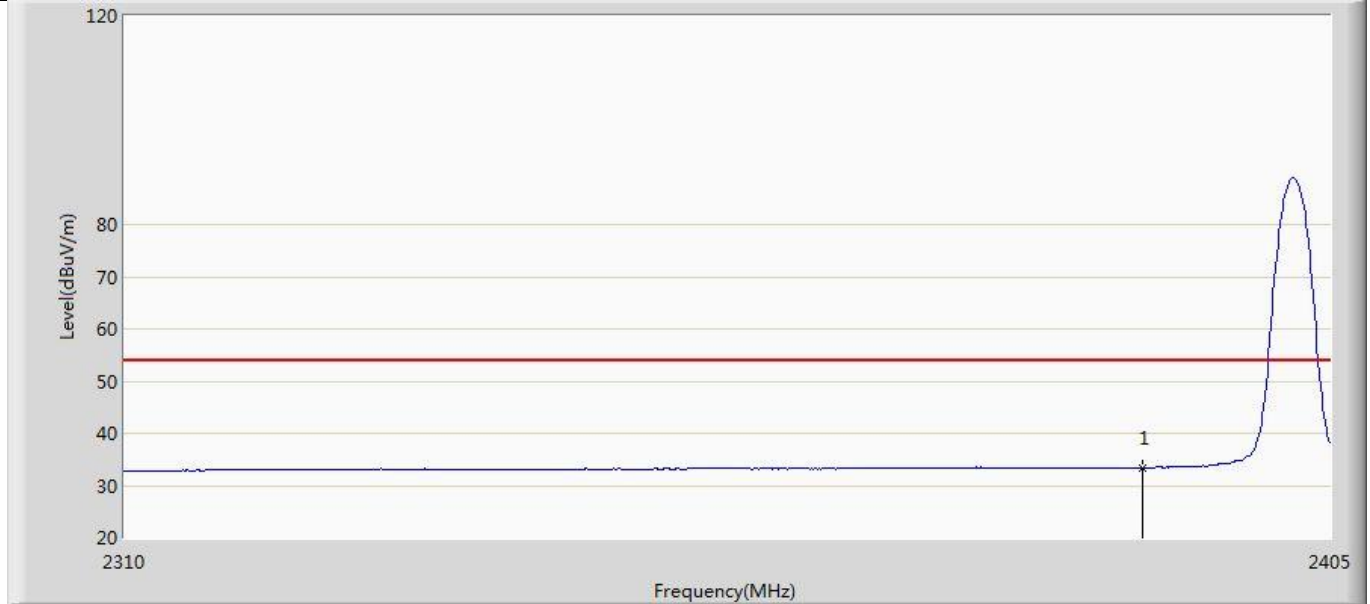
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	36.810	2.354	-17.190	54.000	34.456	AV

Profile: 2480841R	Page No.: 9
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



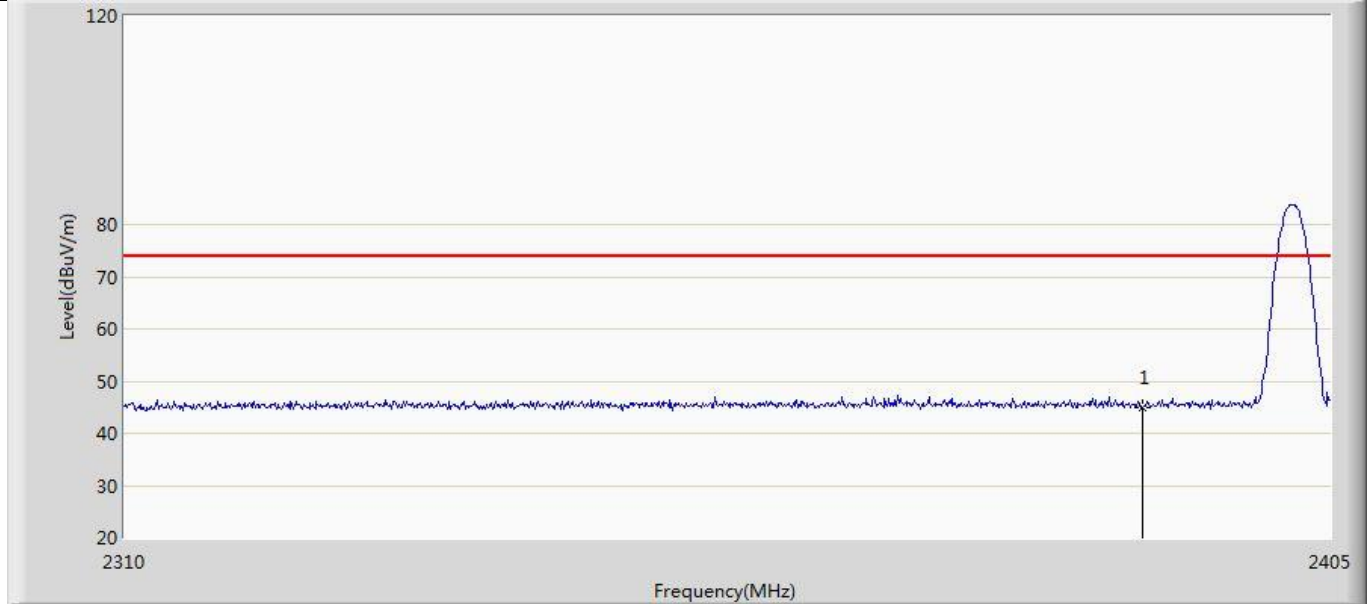
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	44.820	10.719	-29.180	74.000	34.102	PK

Profile: 2480841R	Page No.: 10
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



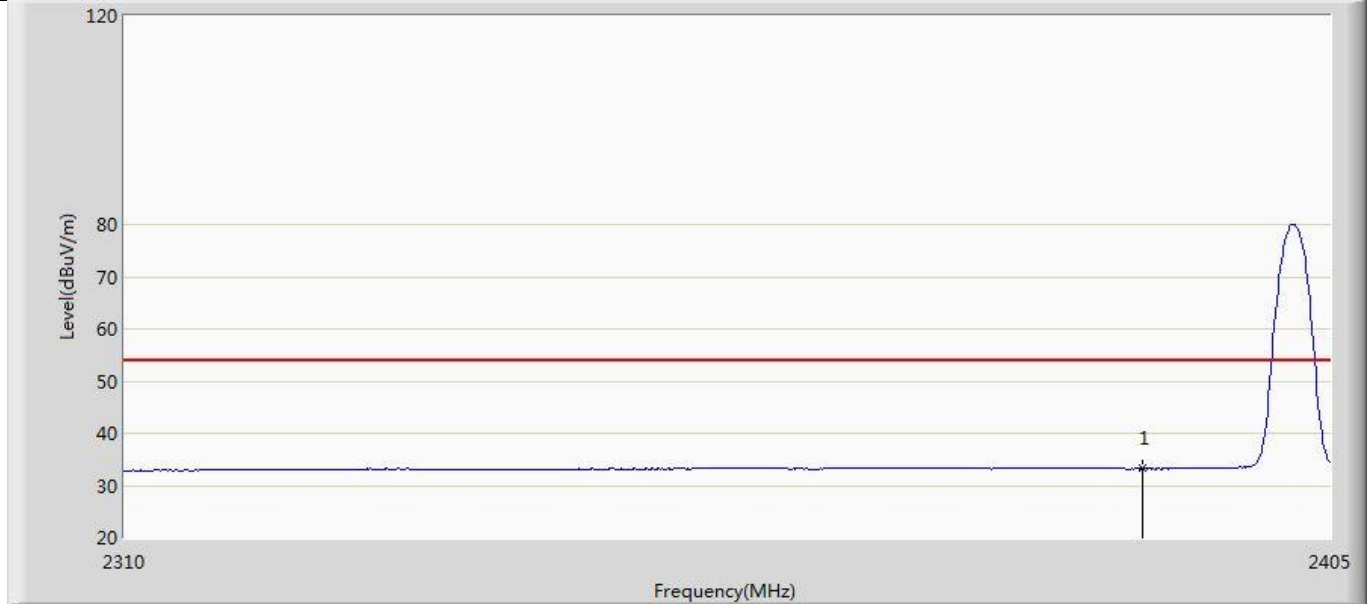
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.437	-0.664	-20.563	54.000	34.102	AV

Profile: 2480841R	Page No.: 11
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



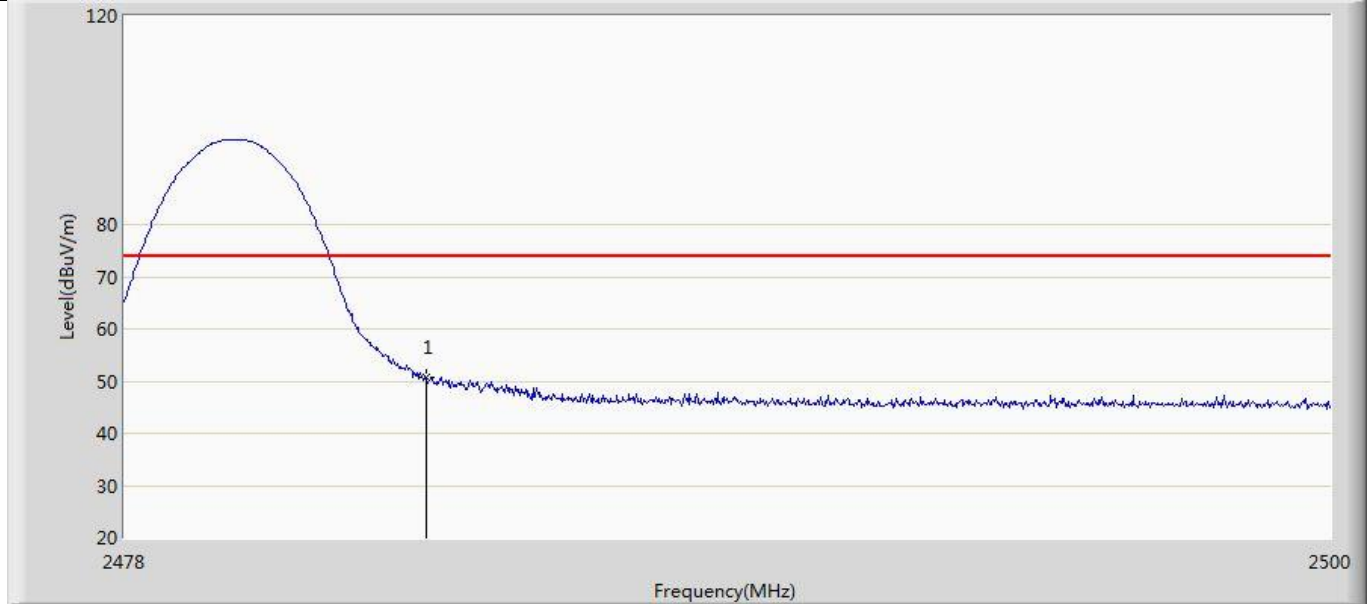
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.034	10.933	-28.966	74.000	34.102	PK

Profile: 2480841R	Page No.: 12
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



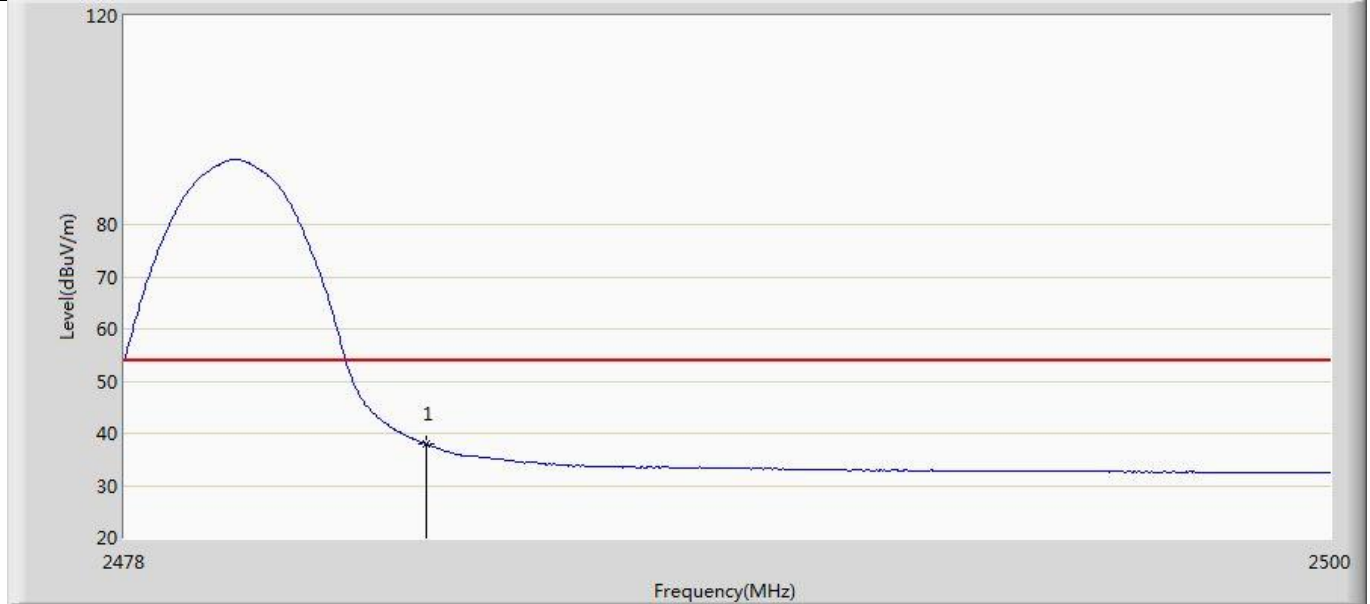
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.204	-0.897	-20.796	54.000	34.102	AV

Profile: 2480841R	Page No.: 13
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



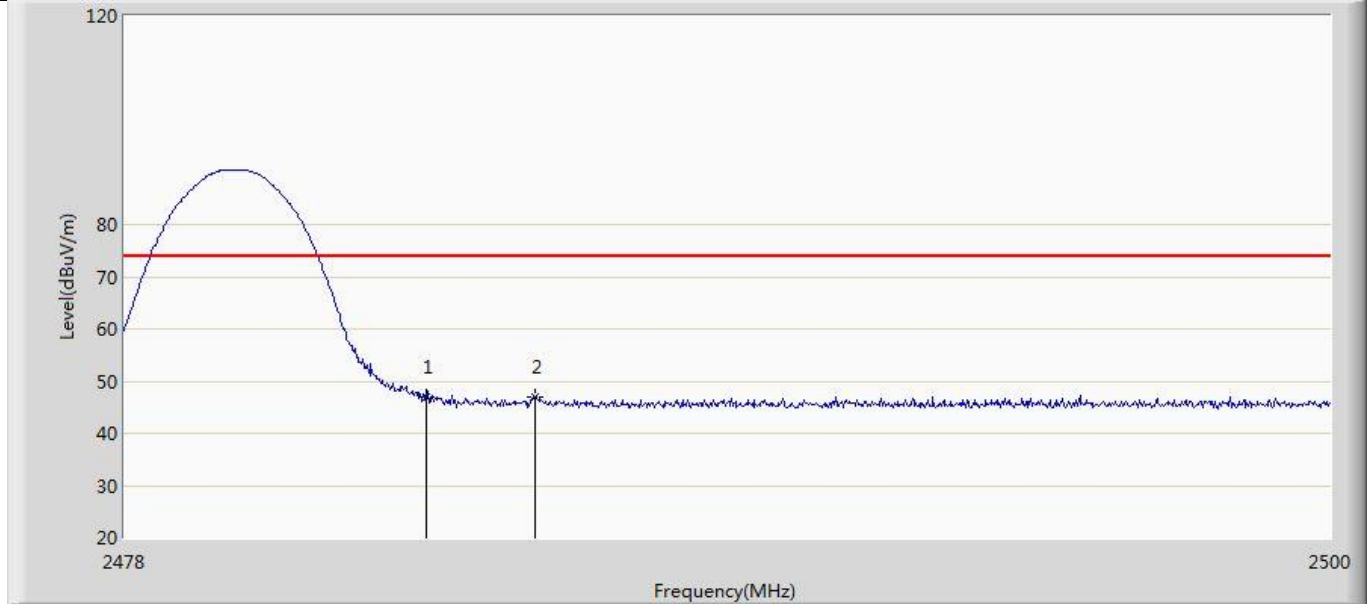
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.664	16.551	-23.336	74.000	34.114	PK

Profile: 2480841R	Page No.: 14
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



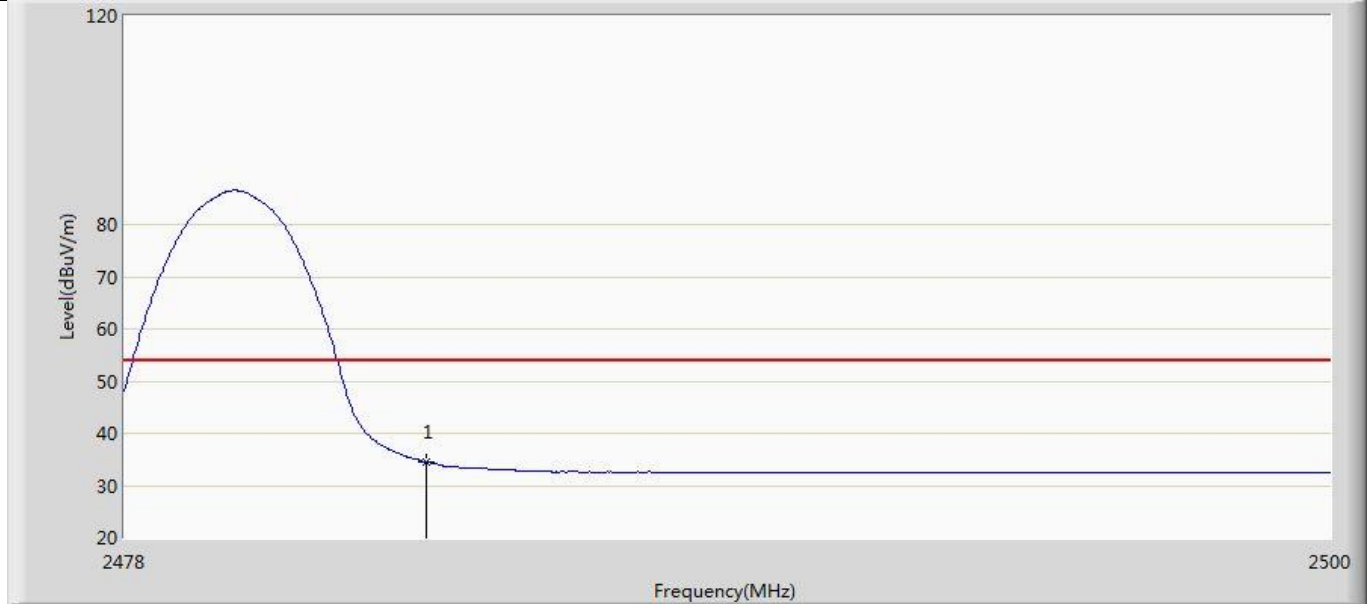
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.915	3.802	-16.085	54.000	34.114	AV

Profile: 2480841R	Page No.: 15
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



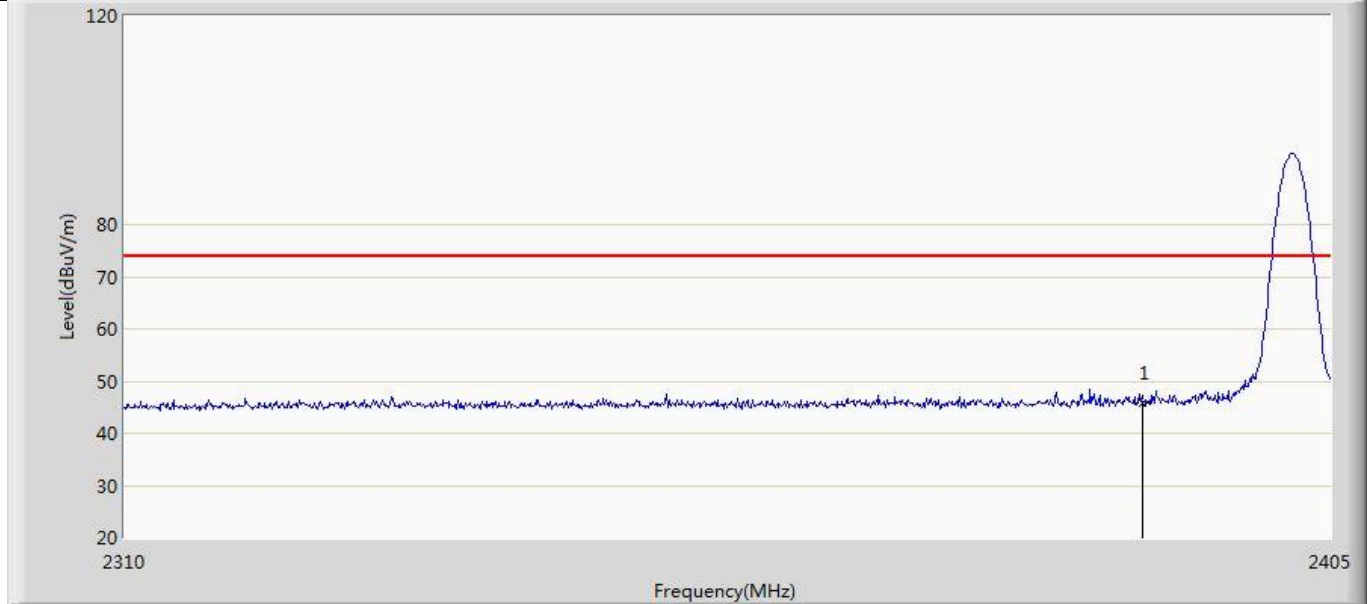
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	47.059	12.946	-26.941	74.000	34.114	PK
2		2485.480	46.919	12.790	-27.081	74.000	34.129	PK

Profile: 2480841R	Page No.: 16
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



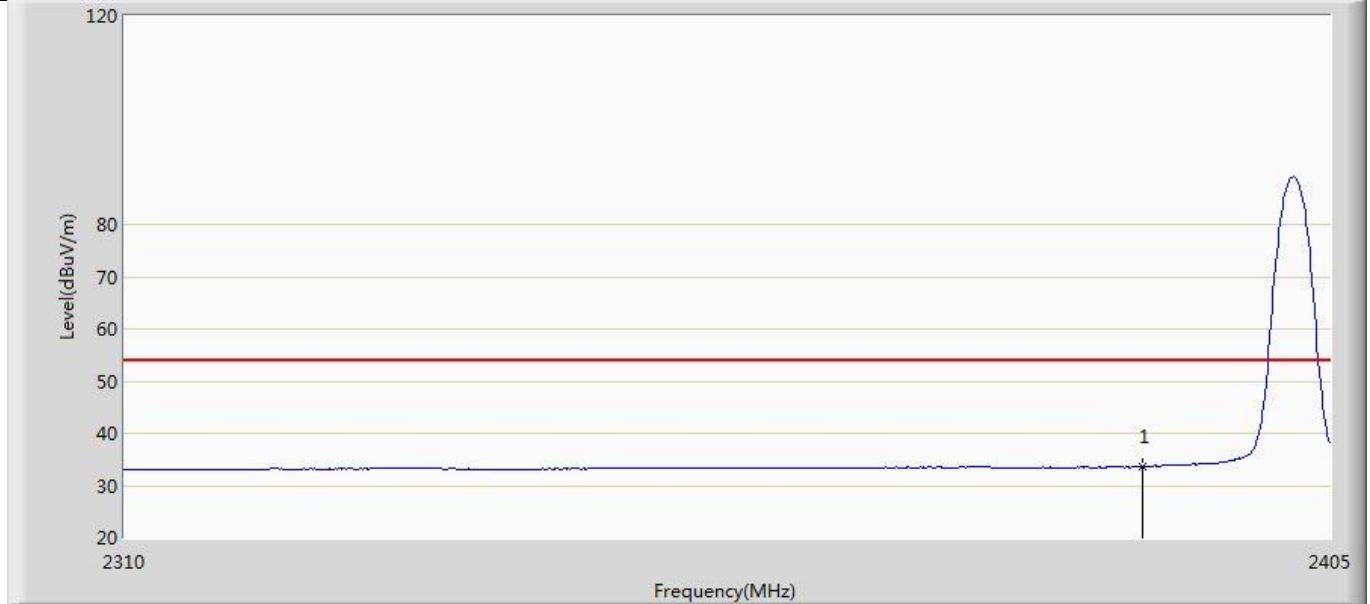
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	34.473	0.360	-19.527	54.000	34.114	AV

Profile: 2480841R	Page No.: 17
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



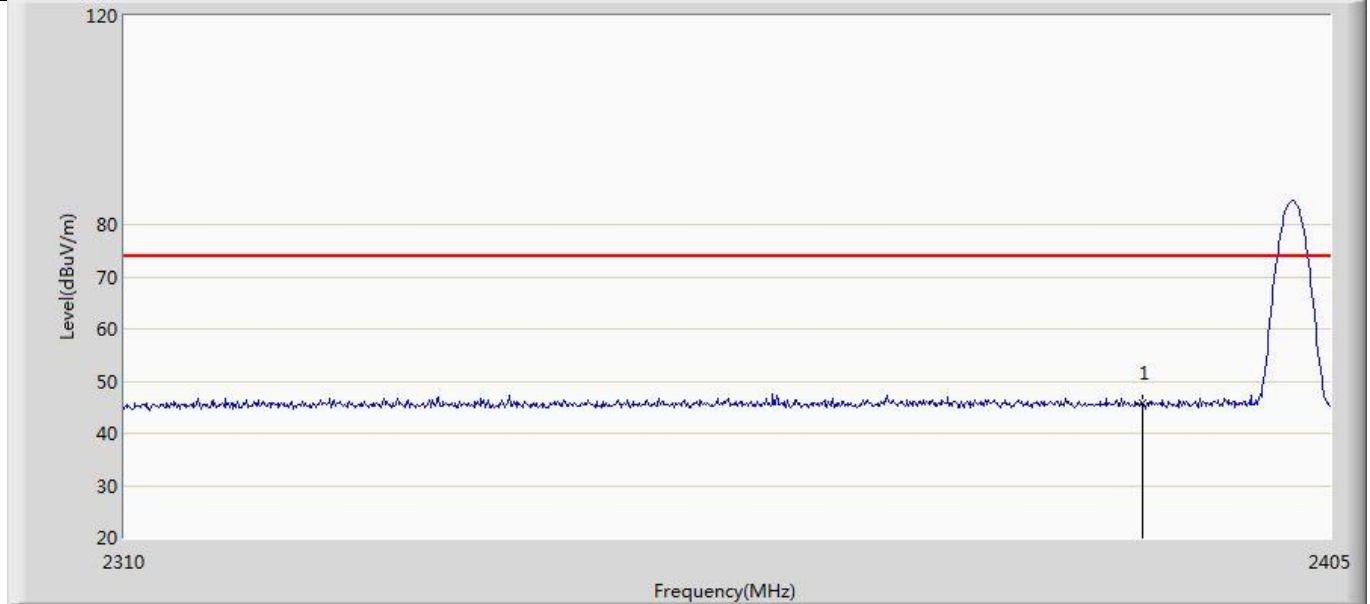
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.924	11.823	-28.076	74.000	34.102	PK

Profile: 2480841R	Page No.: 18
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



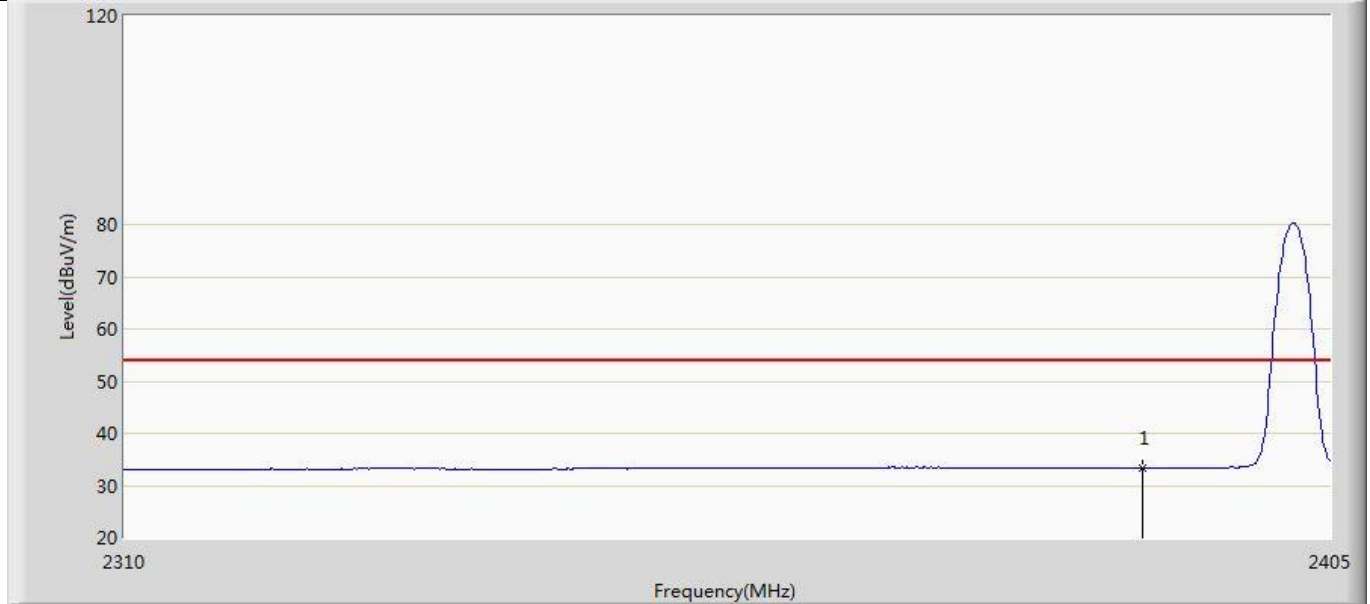
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.578	-0.523	-20.422	54.000	34.102	AV

Profile: 2480841R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



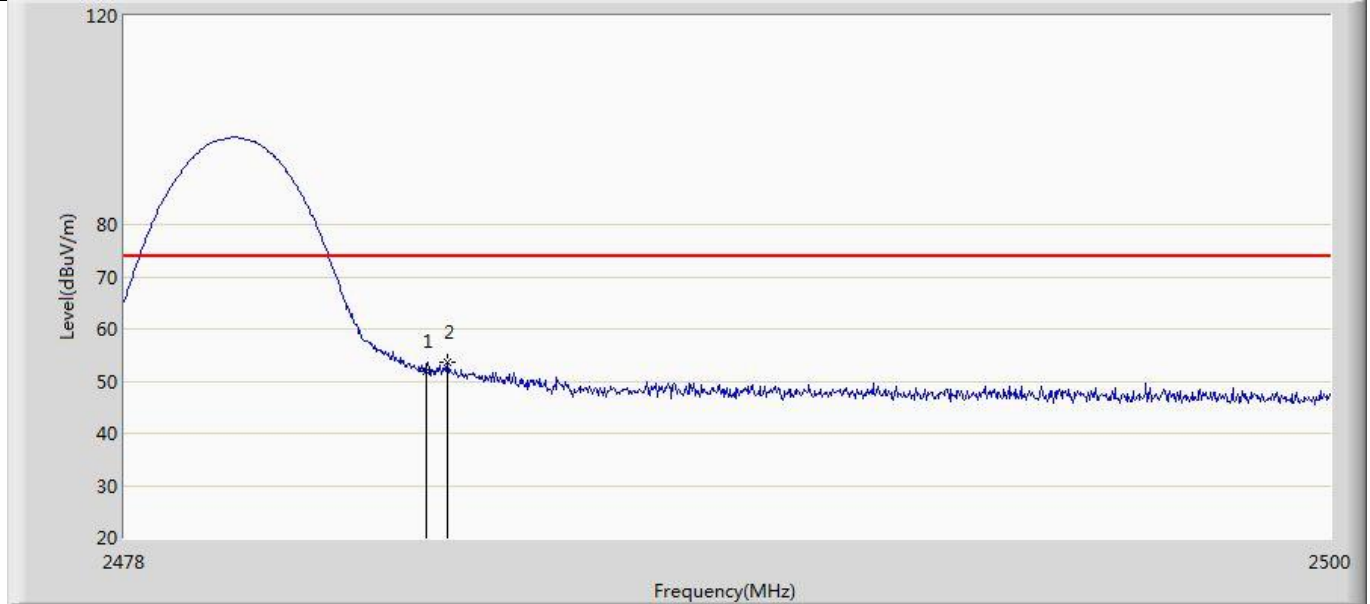
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.688	11.587	-28.312	74.000	34.102	PK

Profile: 2480841R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



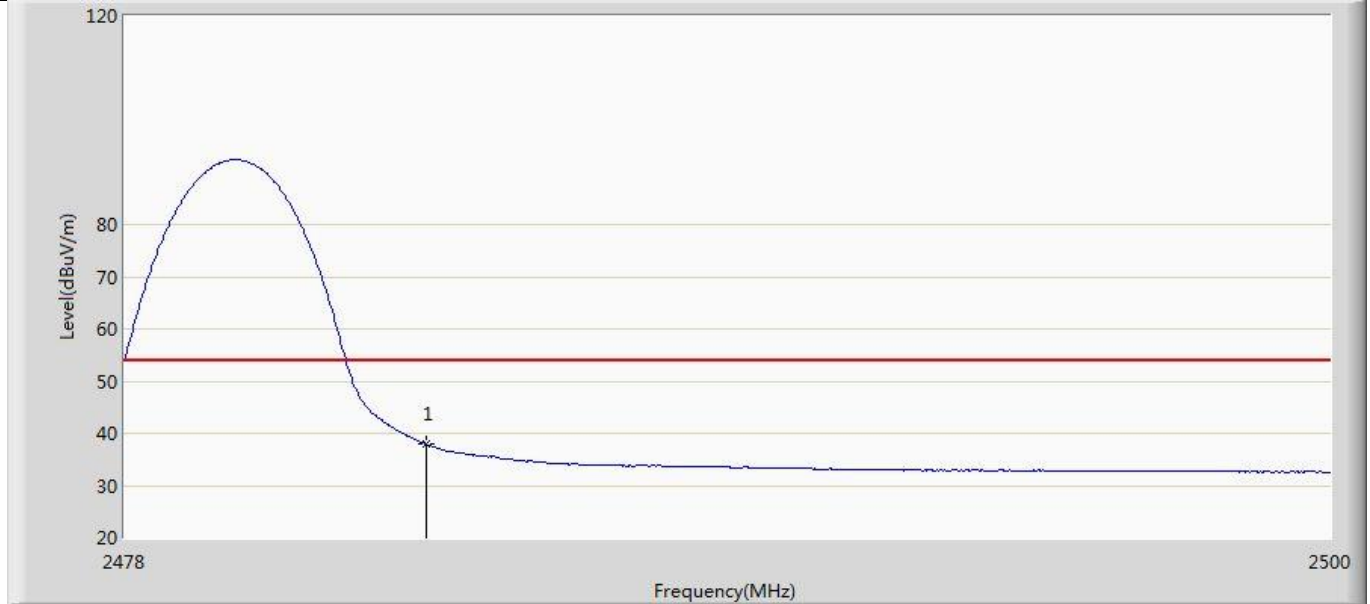
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.245	-0.856	-20.755	54.000	34.102	AV

Profile: 2480841R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



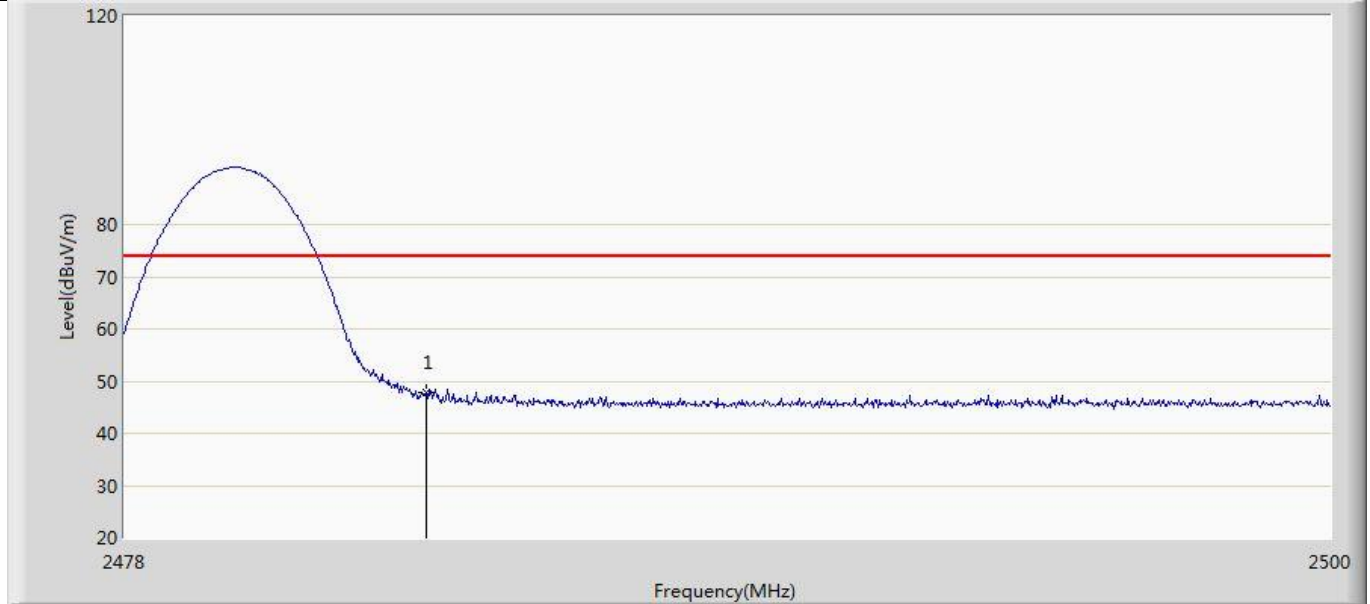
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	51.879	17.766	-22.121	74.000	34.114	PK
2	*	2483.874	53.566	19.450	-20.434	74.000	34.116	PK

Profile: 2480841R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: Battery Powered
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



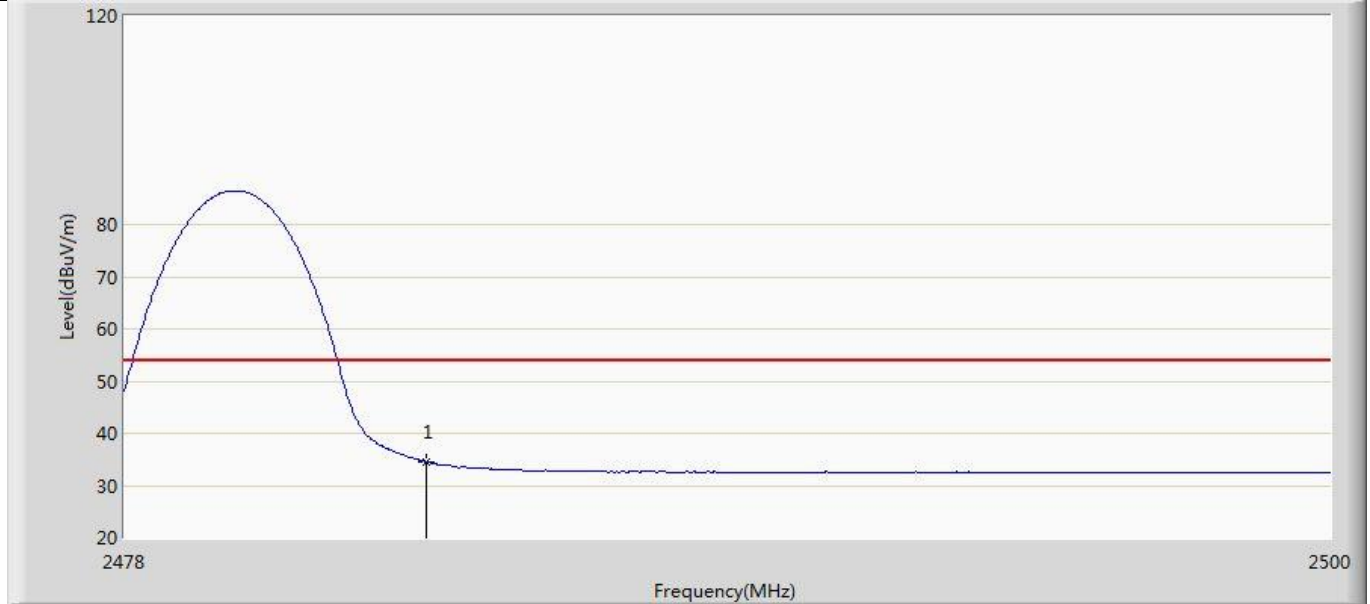
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.843	3.730	-16.157	54.000	34.114	AV

Profile: 2480841R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 22:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
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	*	2483.500	47.962	13.849	-26.038	74.000	34.114	PK

Profile: 2480841R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2024/09/10 - 22:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: Battery Powered
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	*	2483.500	34.566	0.453	-19.434	54.000	34.114	AV

Note:

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

Appendix H: Conducted Spurious Emission

Test Result for Reference level

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2402.05	5.12
		2441	2441.05	5.23
		2480	2480.06	4.50
2DH5	Ant1	2402	2402.03	4.61
		2441	2441.03	4.11
		2480	2480.03	3.37
3DH5	Ant1	2402	2402.10	4.66
		2441	2441.10	4.18
		2480	2480.10	3.44

Test Result for Band edge

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.12	-55.67	≤-14.88	PASS
		High	2480	4.50	-54.39	≤-15.5	PASS
		Low	Hop_2402	6.41	-49.92	≤-13.59	PASS
		High	Hop_2480	5.17	-47.86	≤-14.83	PASS
2DH5	Ant1	Low	2402	4.61	-44.42	≤-15.39	PASS
		High	2480	3.37	-51.23	≤-16.63	PASS
		Low	Hop_2402	6.82	-45.66	≤-13.18	PASS
		High	Hop_2480	5.61	-52.9	≤-14.39	PASS
3DH5	Ant1	Low	2402	4.66	-42.65	≤-15.34	PASS
		High	2480	3.44	-51.67	≤-16.56	PASS
		Low	Hop_2402	6.74	-43.39	≤-13.26	PASS
		High	Hop_2480	5.47	-49.4	≤-14.53	PASS

Test Result for Spurious Emission

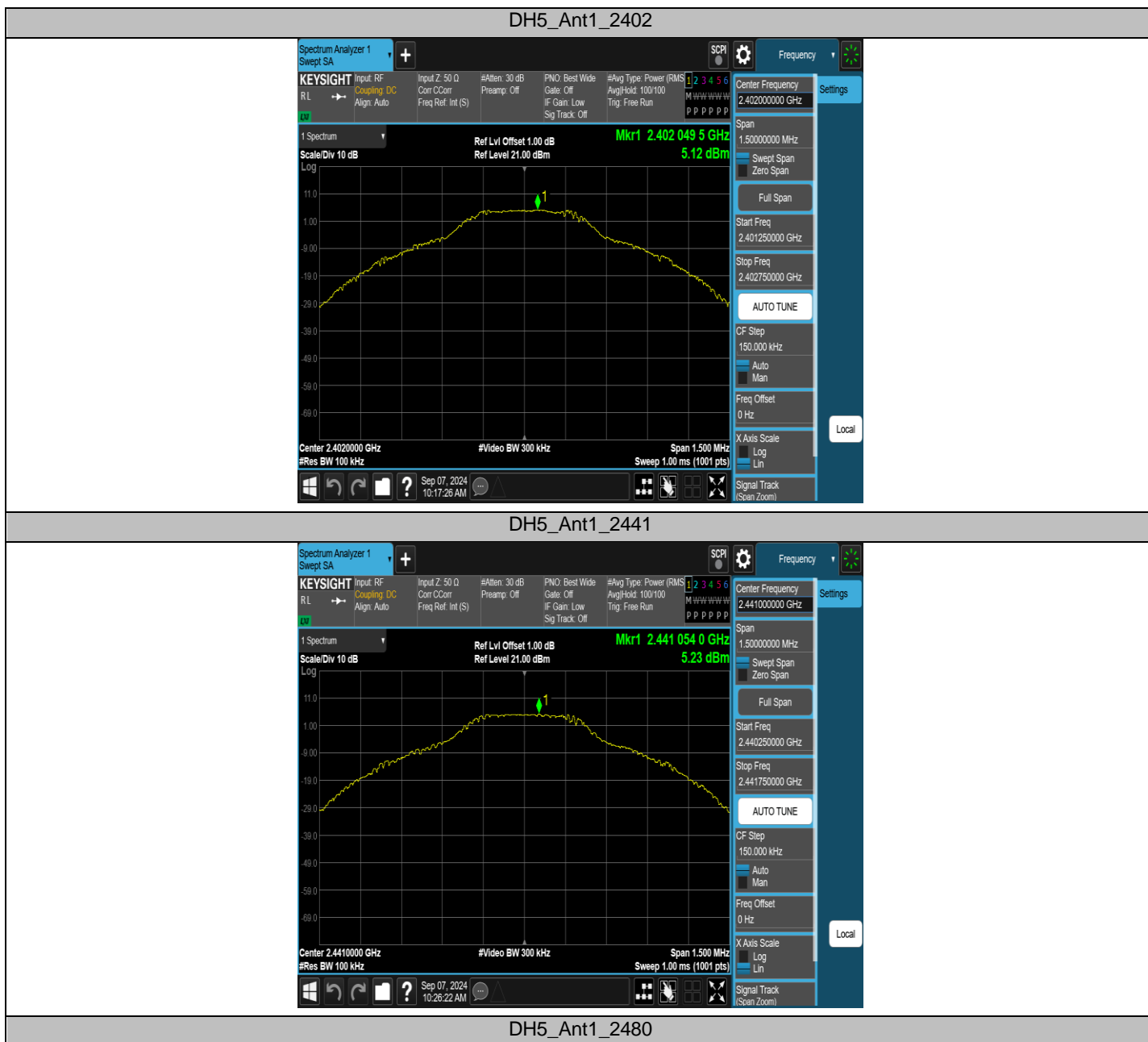
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	5.12	-64.69	≤-14.88	PASS
			1000~3000	5.12	-64.71	≤-14.88	PASS
			3000~5000	5.12	-49.39	≤-14.88	PASS
			5000~7000	5.12	-63.39	≤-14.88	PASS
			7000~9000	5.12	-49.74	≤-14.88	PASS
			9000~11000	5.12	-65.01	≤-14.88	PASS
			11000~13000	5.12	-56.99	≤-14.88	PASS
			13000~15000	5.12	-63.44	≤-14.88	PASS
			15000~17000	5.12	-59.3	≤-14.88	PASS
			17000~19000	5.12	-63.94	≤-14.88	PASS
			19000~21000	5.12	-47.92	≤-14.88	PASS
			21000~23000	5.12	-47.92	≤-14.88	PASS
23000~25000	5.12	-61.5	≤-14.88	PASS			

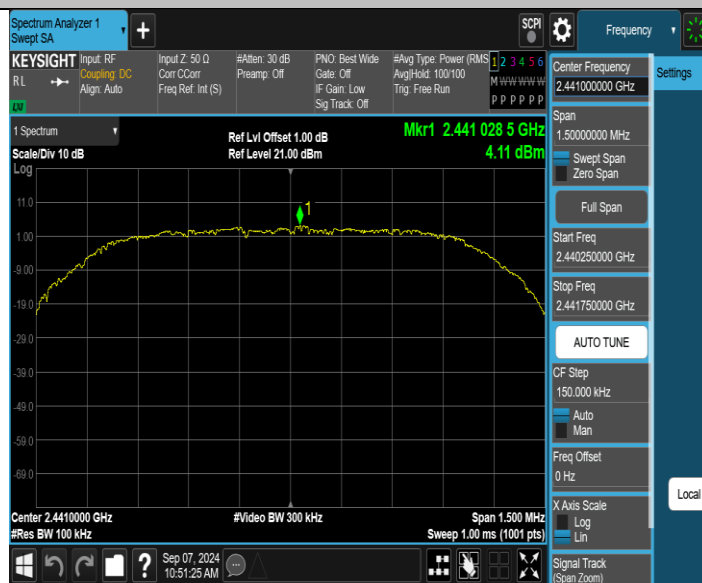
		2441	30~1000	5.23	-67.9	≤-14.77	PASS
			1000~3000	5.23	-64.3	≤-14.77	PASS
			3000~5000	5.23	-49.95	≤-14.77	PASS
			5000~7000	5.23	-64.71	≤-14.77	PASS
			7000~9000	5.23	-50.03	≤-14.77	PASS
			9000~11000	5.23	-63.85	≤-14.77	PASS
			11000~13000	5.23	-56.02	≤-14.77	PASS
			13000~15000	5.23	-64.41	≤-14.77	PASS
			15000~17000	5.23	-64.59	≤-14.77	PASS
			17000~19000	5.23	-61.55	≤-14.77	PASS
			19000~21000	5.23	-52.94	≤-14.77	PASS
			21000~23000	5.23	-51.08	≤-14.77	PASS
		23000~25000	5.23	-60.11	≤-14.77	PASS	
		2480	30~1000	4.50	-68.4	≤-15.5	PASS
			1000~3000	4.50	-53.02	≤-15.5	PASS
			3000~5000	4.50	-49.62	≤-15.5	PASS
			5000~7000	4.50	-54.13	≤-15.5	PASS
			7000~9000	4.50	-48.91	≤-15.5	PASS
			9000~11000	4.50	-64.27	≤-15.5	PASS
			11000~13000	4.50	-60.56	≤-15.5	PASS
			13000~15000	4.50	-64.18	≤-15.5	PASS
			15000~17000	4.50	-64.14	≤-15.5	PASS
			17000~19000	4.50	-62.93	≤-15.5	PASS
			19000~21000	4.50	-51.75	≤-15.5	PASS
21000~23000	4.50		-51.68	≤-15.5	PASS		
23000~25000	4.50	-61.47	≤-15.5	PASS			
2DH5	Ant1	2402	30~1000	4.61	-61.59	≤-15.39	PASS
			1000~3000	4.61	-64.68	≤-15.39	PASS
			3000~5000	4.61	-41.21	≤-15.39	PASS
			5000~7000	4.61	-63.05	≤-15.39	PASS
			7000~9000	4.61	-52.87	≤-15.39	PASS
			9000~11000	4.61	-58.1	≤-15.39	PASS
			11000~13000	4.61	-62.58	≤-15.39	PASS
			13000~15000	4.61	-59.58	≤-15.39	PASS
			15000~17000	4.61	-64.28	≤-15.39	PASS
			17000~19000	4.61	-64.26	≤-15.39	PASS
			19000~21000	4.61	-43.47	≤-15.39	PASS
			21000~23000	4.61	-61.07	≤-15.39	PASS
		23000~25000	4.61	-61.61	≤-15.39	PASS	
		2441	30~1000	4.11	-58.84	≤-15.89	PASS
			1000~3000	4.11	-58.79	≤-15.89	PASS
			3000~5000	4.11	-40.96	≤-15.89	PASS
			5000~7000	4.11	-62.05	≤-15.89	PASS
			7000~9000	4.11	-55.01	≤-15.89	PASS
			9000~11000	4.11	-57.36	≤-15.89	PASS
			11000~13000	4.11	-63.23	≤-15.89	PASS
			13000~15000	4.11	-61.15	≤-15.89	PASS
			15000~17000	4.11	-64.66	≤-15.89	PASS
			17000~19000	4.11	-63.47	≤-15.89	PASS
			19000~21000	4.11	-49.1	≤-15.89	PASS
21000~23000	4.11		-61.02	≤-15.89	PASS		

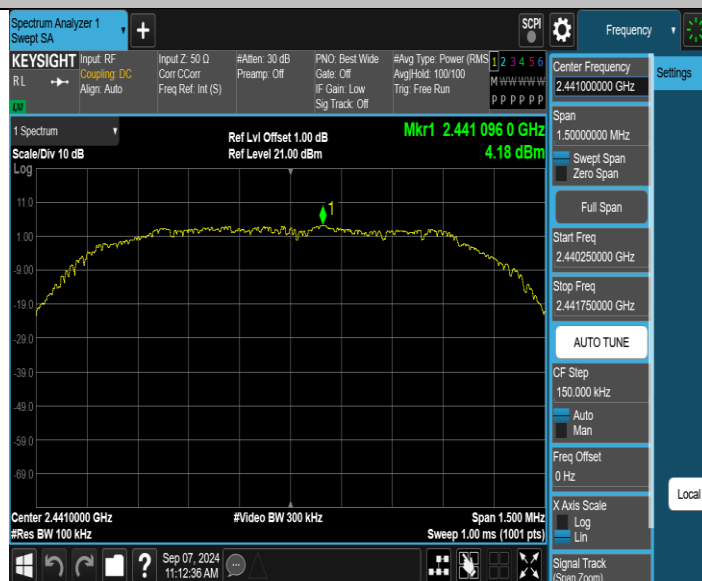
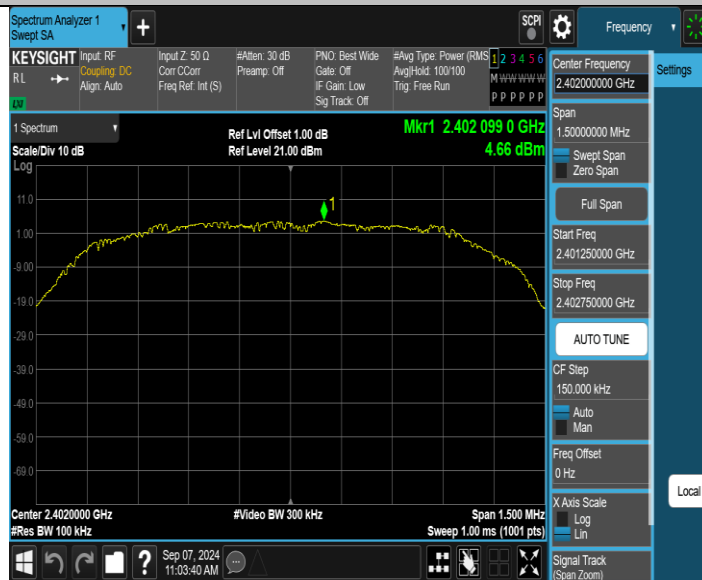
		2480	23000~25000	4.11	-61.64	≤-15.89	PASS
			30~1000	3.37	-58.06	≤-16.63	PASS
			1000~3000	3.37	-56.66	≤-16.63	PASS
			3000~5000	3.37	-38.51	≤-16.63	PASS
			5000~7000	3.37	-53.68	≤-16.63	PASS
			7000~9000	3.37	-51.98	≤-16.63	PASS
			9000~11000	3.37	-58.85	≤-16.63	PASS
			11000~13000	3.37	-62.92	≤-16.63	PASS
			13000~15000	3.37	-63.33	≤-16.63	PASS
			15000~17000	3.37	-64.62	≤-16.63	PASS
			17000~19000	3.37	-64.06	≤-16.63	PASS
			19000~21000	3.37	-49	≤-16.63	PASS
			21000~23000	3.37	-59.5	≤-16.63	PASS
			23000~25000	3.37	-61.04	≤-16.63	PASS
3DH5	Ant1	2402	30~1000	4.66	-60.77	≤-15.34	PASS
			1000~3000	4.66	-56.25	≤-15.34	PASS
			3000~5000	4.66	-42.09	≤-15.34	PASS
			5000~7000	4.66	-63	≤-15.34	PASS
			7000~9000	4.66	-52.66	≤-15.34	PASS
			9000~11000	4.66	-60.41	≤-15.34	PASS
			11000~13000	4.66	-63.78	≤-15.34	PASS
			13000~15000	4.66	-60.26	≤-15.34	PASS
			15000~17000	4.66	-64.33	≤-15.34	PASS
			17000~19000	4.66	-63.89	≤-15.34	PASS
			19000~21000	4.66	-45.86	≤-15.34	PASS
			21000~23000	4.66	-60.31	≤-15.34	PASS
			23000~25000	4.66	-60.43	≤-15.34	PASS
			2441	30~1000	4.18	-59.01	≤-15.82
		1000~3000		4.18	-64.51	≤-15.82	PASS
		3000~5000		4.18	-40.81	≤-15.82	PASS
		5000~7000		4.18	-57.9	≤-15.82	PASS
		7000~9000		4.18	-53.69	≤-15.82	PASS
		9000~11000		4.18	-59.4	≤-15.82	PASS
		11000~13000		4.18	-64.34	≤-15.82	PASS
		13000~15000		4.18	-61.8	≤-15.82	PASS
		15000~17000		4.18	-64.11	≤-15.82	PASS
		17000~19000		4.18	-63.22	≤-15.82	PASS
		19000~21000		4.18	-49.68	≤-15.82	PASS
		21000~23000		4.18	-61.57	≤-15.82	PASS
		23000~25000		4.18	-61.48	≤-15.82	PASS
		2480		30~1000	3.44	-57.48	≤-16.56
			1000~3000	3.44	-65.41	≤-16.56	PASS
			3000~5000	3.44	-39.35	≤-16.56	PASS
			5000~7000	3.44	-59.73	≤-16.56	PASS
			7000~9000	3.44	-53.17	≤-16.56	PASS
			9000~11000	3.44	-61.7	≤-16.56	PASS
			11000~13000	3.44	-64.72	≤-16.56	PASS
			13000~15000	3.44	-63.27	≤-16.56	PASS
			15000~17000	3.44	-64.69	≤-16.56	PASS
			17000~19000	3.44	-63.5	≤-16.56	PASS
			19000~21000	3.44	-50.27	≤-16.56	PASS

			21000~23000	3.44	-62.08	≤-16.56	PASS
			23000~25000	3.44	-60.85	≤-16.56	PASS

Test Graphs for Reference level



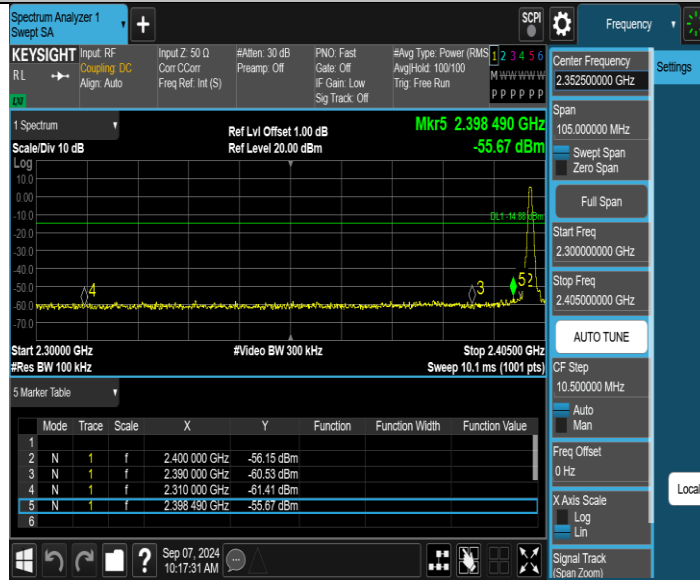




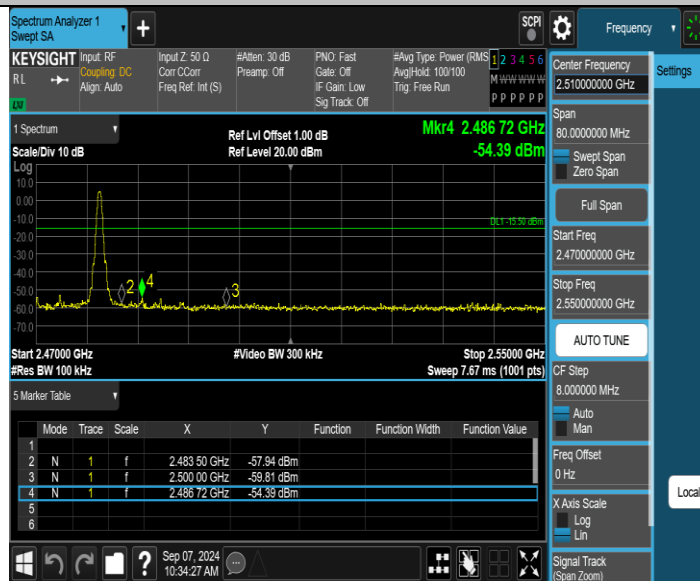


Test Graphs for Band edge

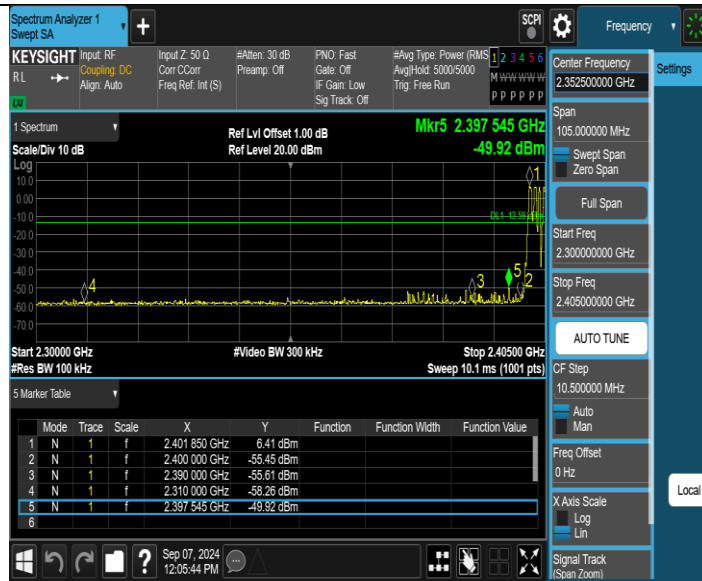
DH5_Ant1_Low_2402



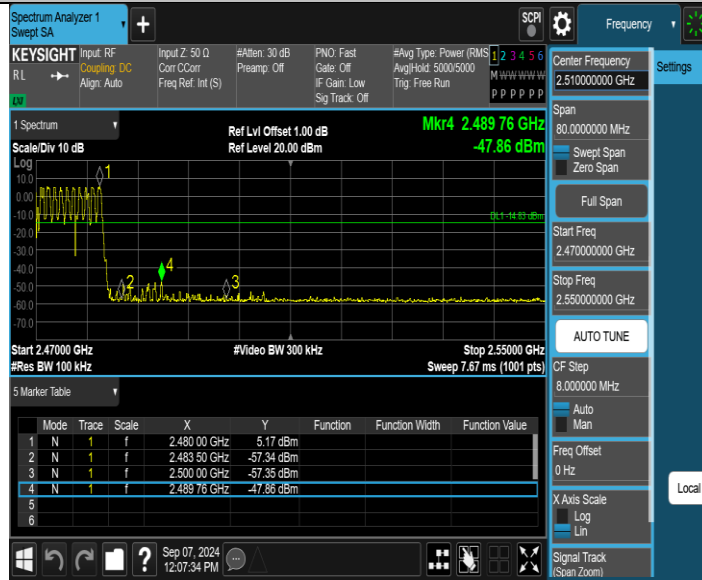
DH5_Ant1_High_2480



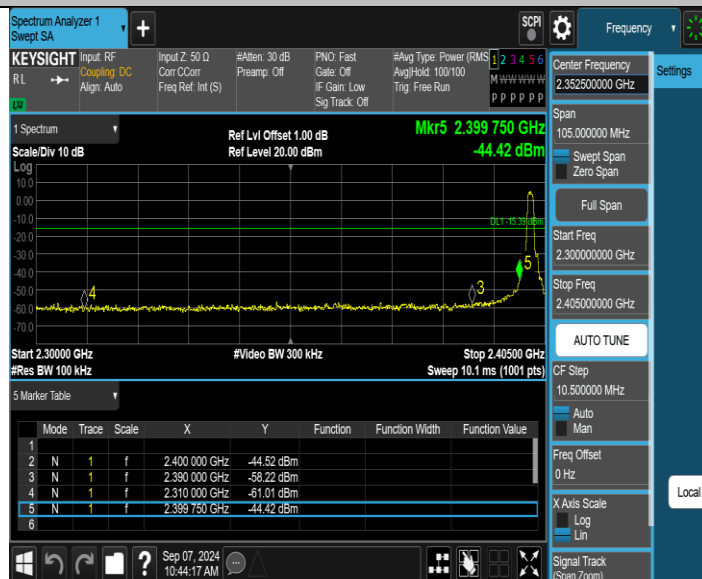
DH5_Ant1_Low_Hop_2402



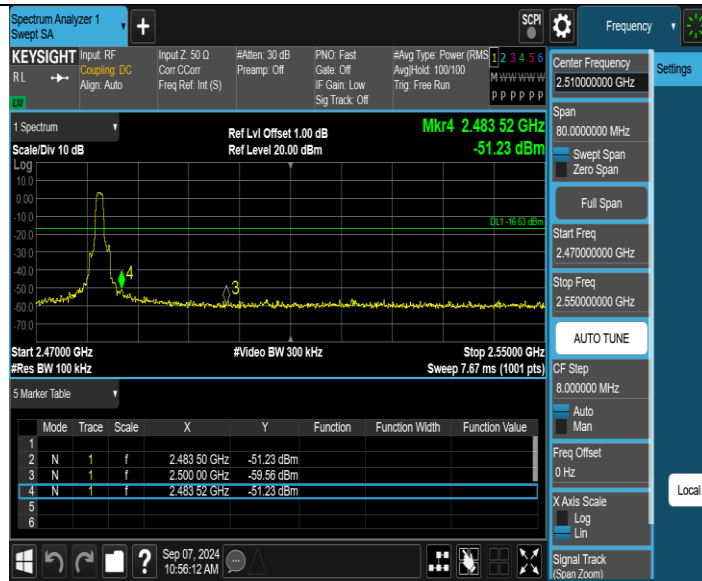
DH5_Ant1_High_Hop_2480



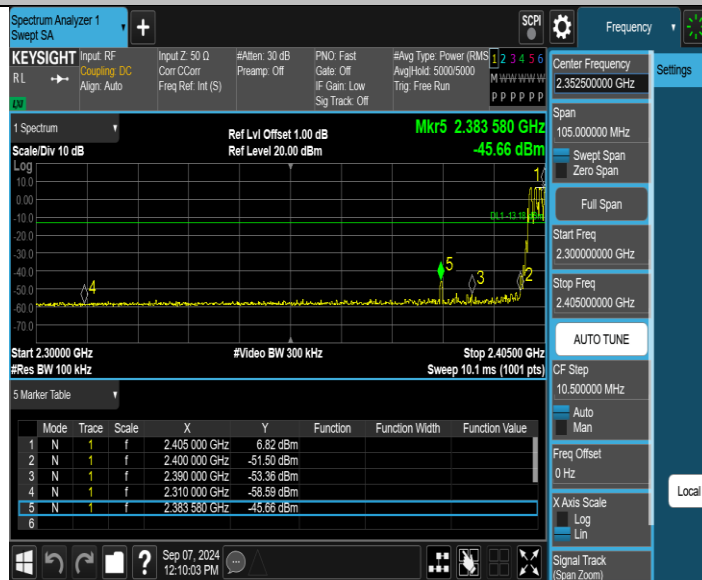
2DH5_Ant1_Low_2402



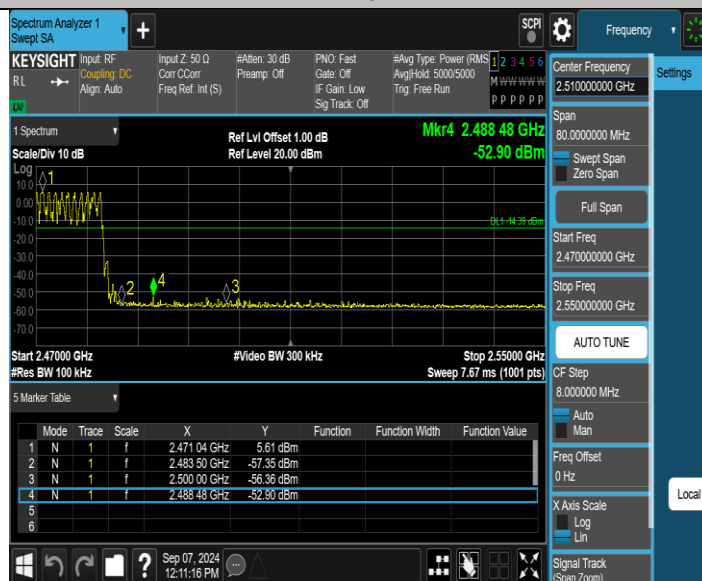
2DH5_Ant1_High_2480



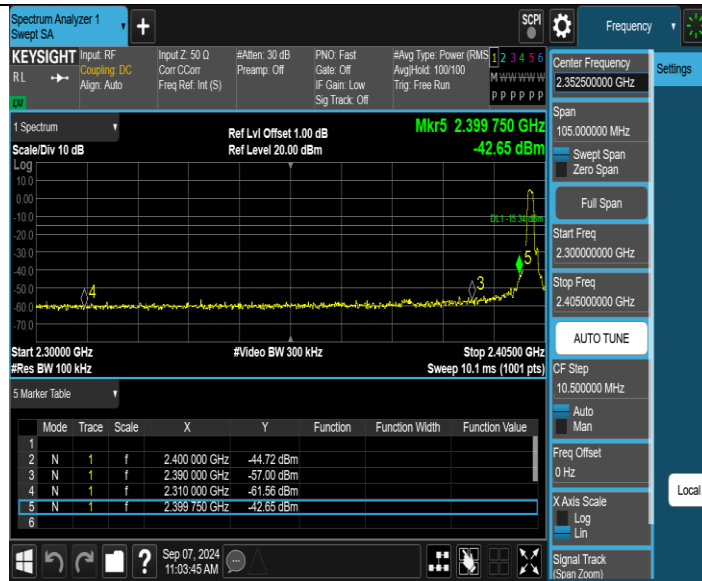
2D45_Ant1_Low_Hop_2402



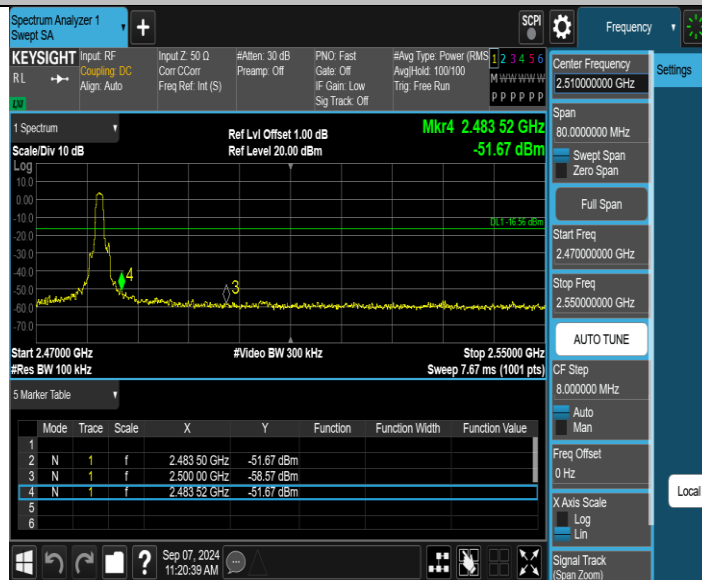
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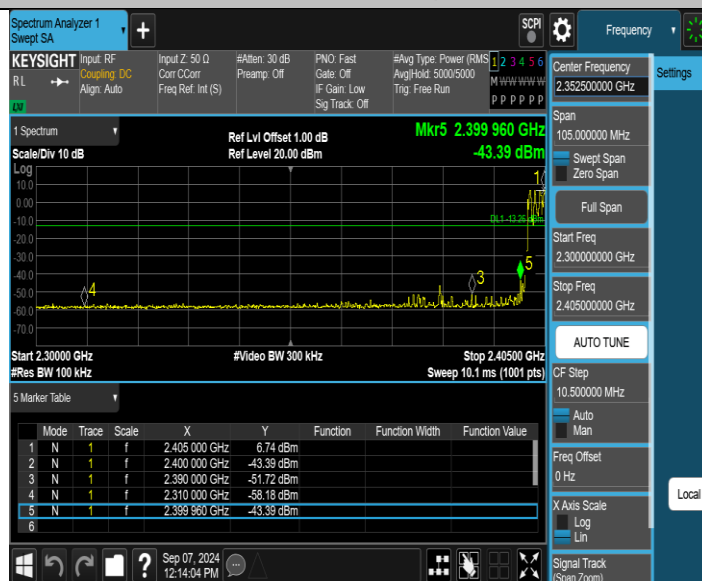
3D45_Ant1_Low_2402



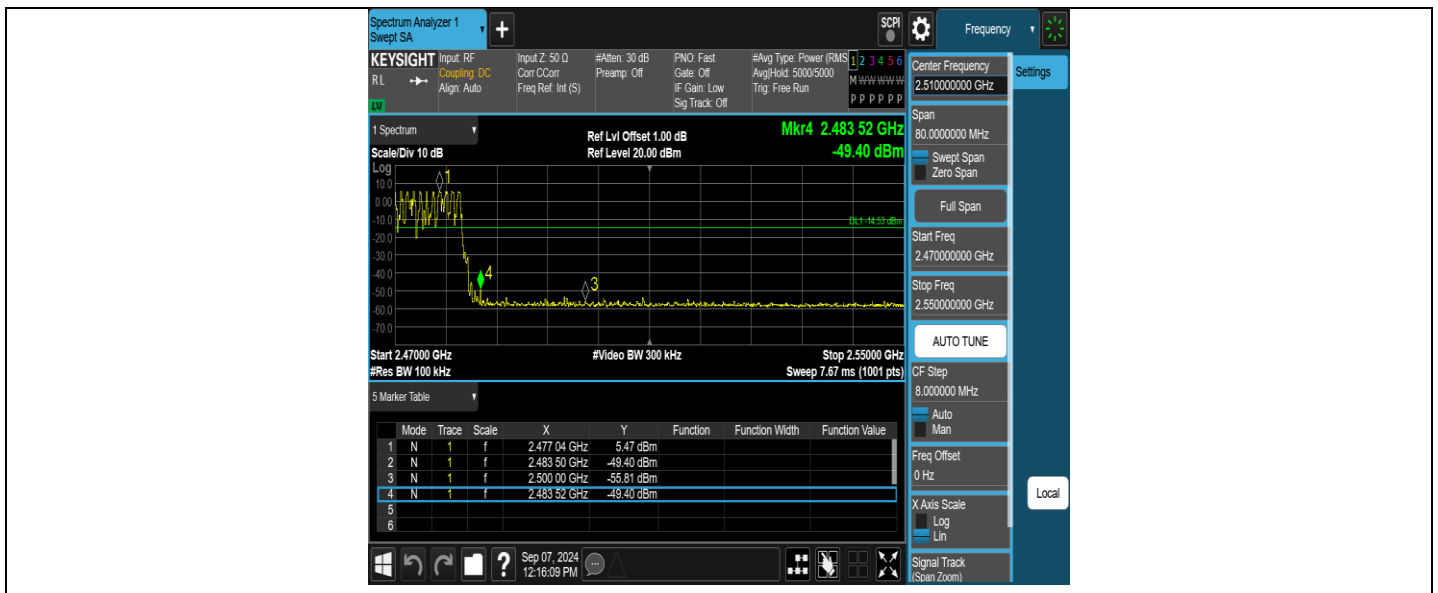
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

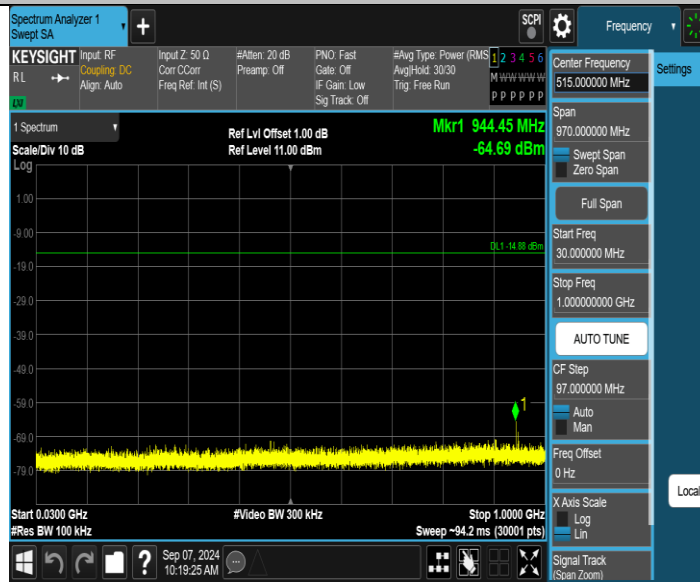


3DH5_Ant1_High_Hop_2480



Test Graphs for Spurious Emission

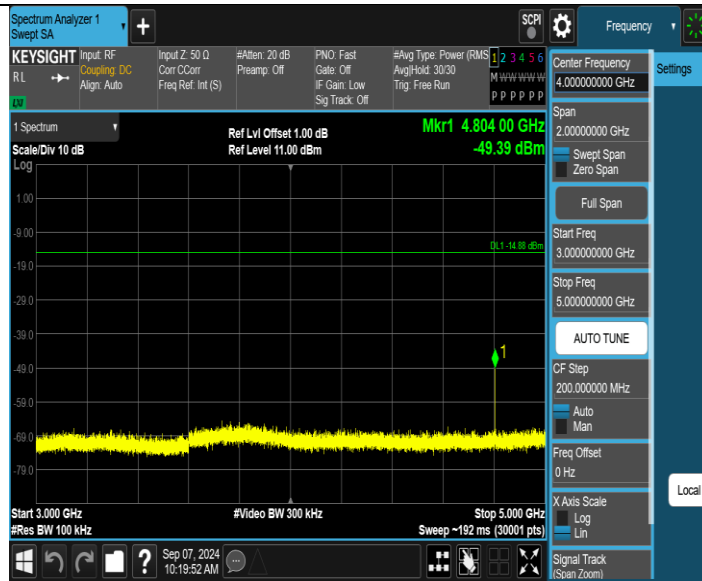
DH5_Ant1_2402_30~1000



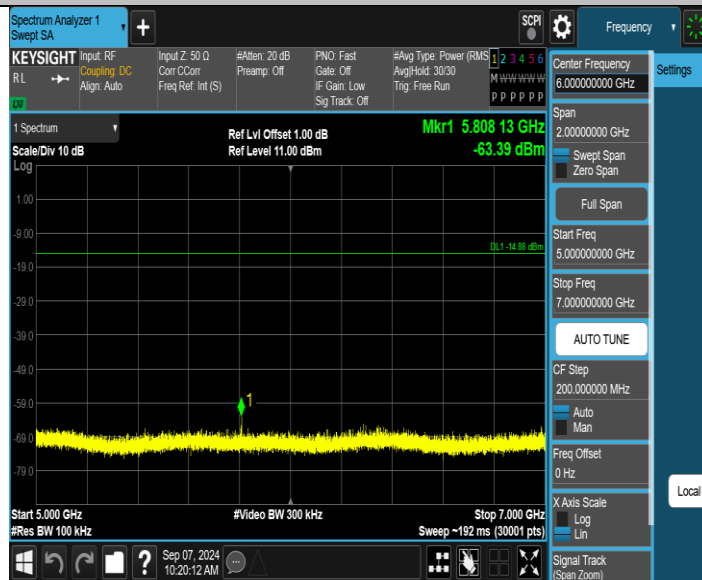
DH5_Ant1_2402_1000~3000



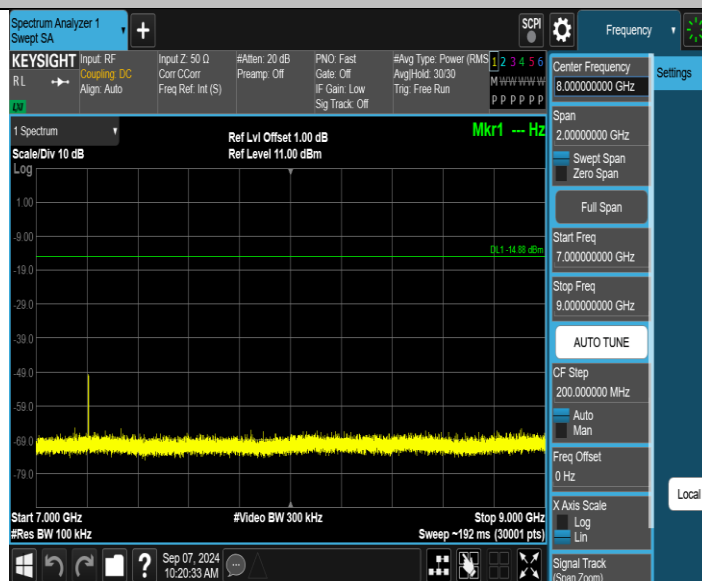
DH5_Ant1_2402_3000~5000



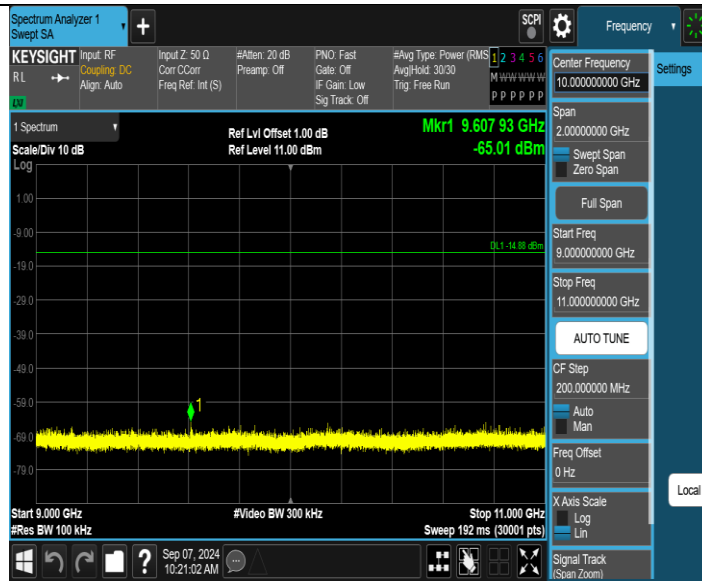
DH5_Ant1_2402_5000~7000



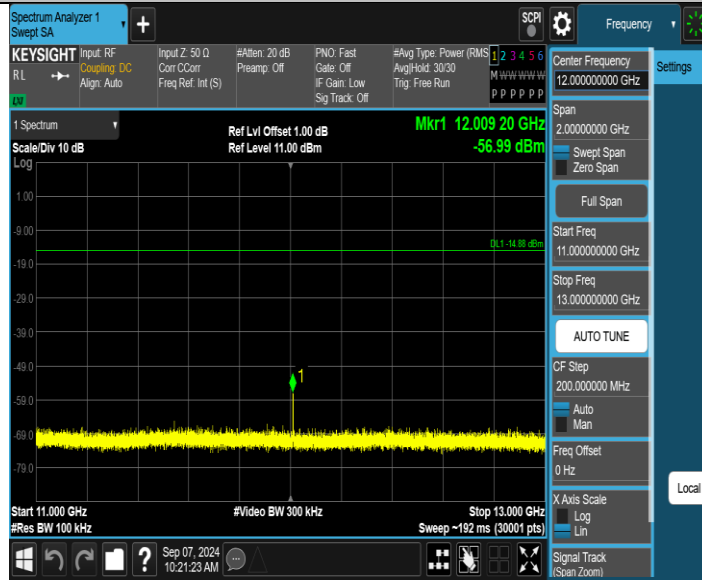
DH5_Ant1_2402_7000~9000



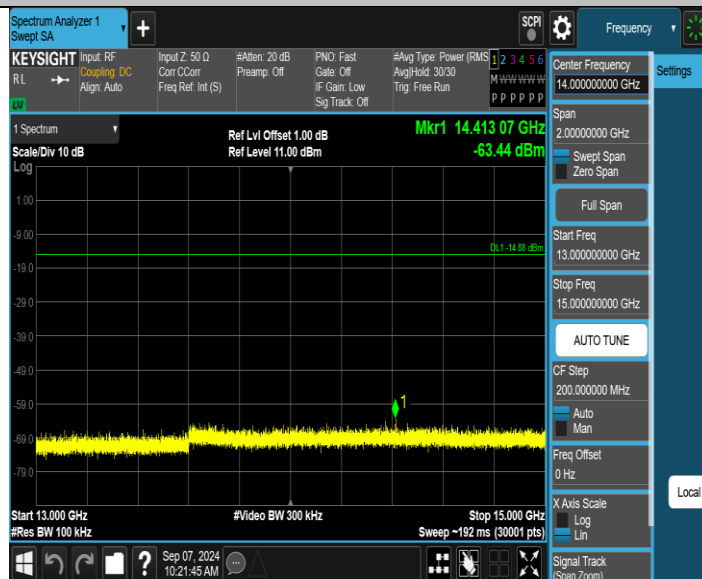
DH5_Ant1_2402_9000~11000



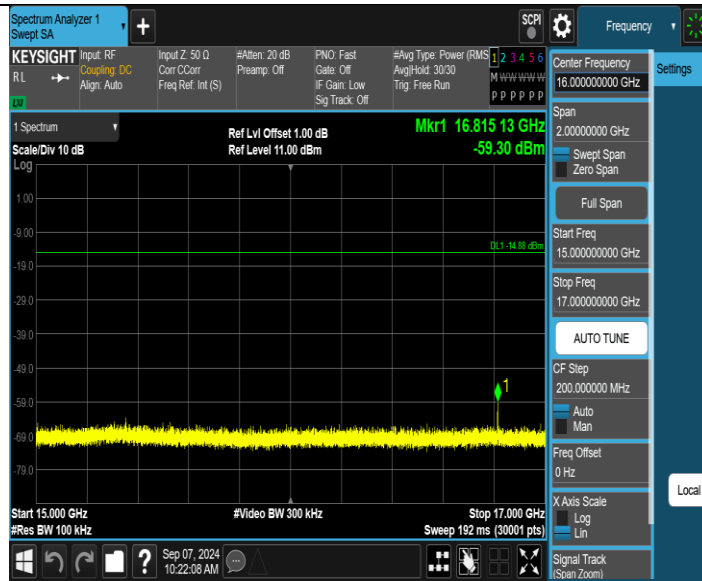
DH5_Ant1_2402_11000~13000



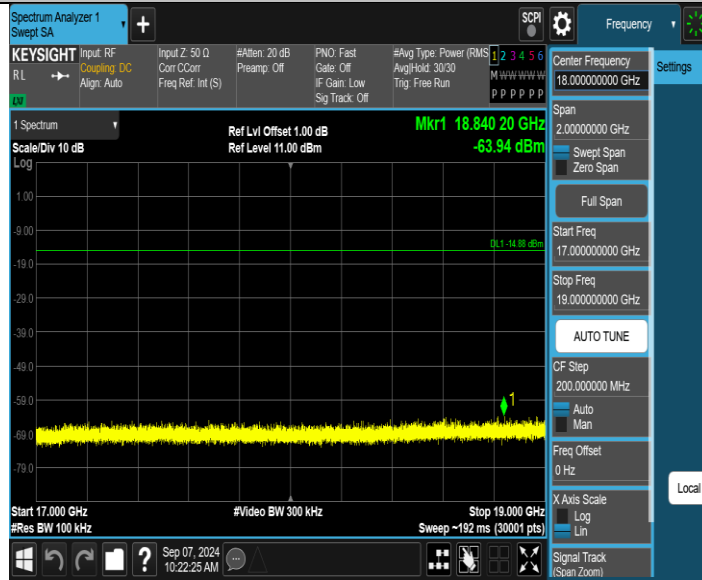
DH5_Ant1_2402_13000~15000



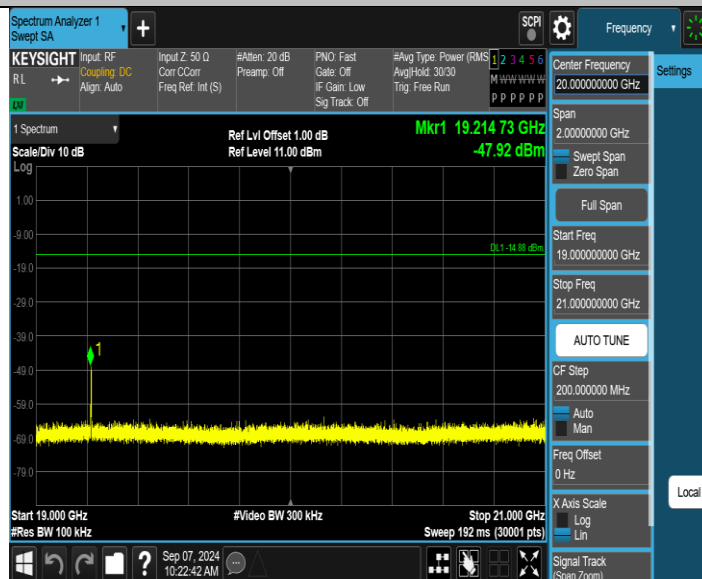
DH5_Ant1_2402_15000~17000



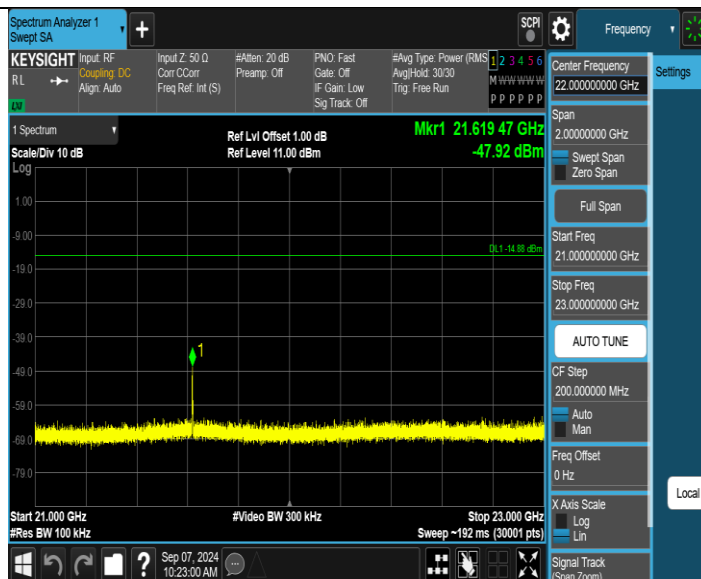
DH5_Ant1_2402_17000~19000



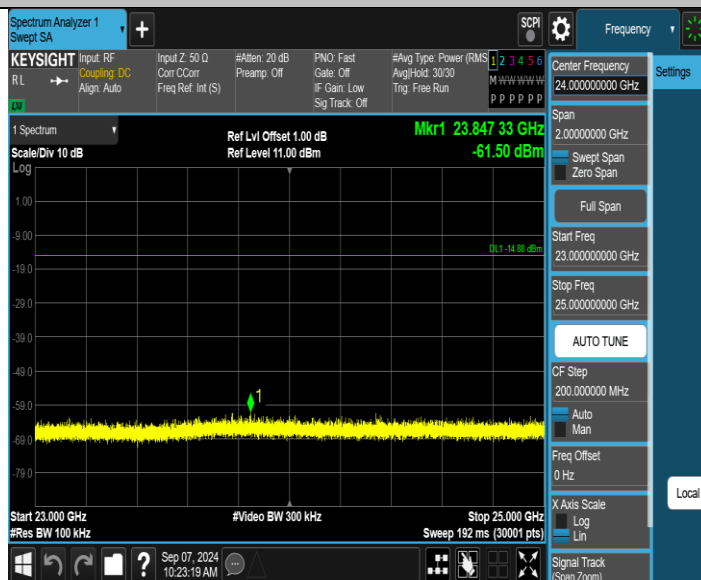
DH5_Ant1_2402_19000~21000



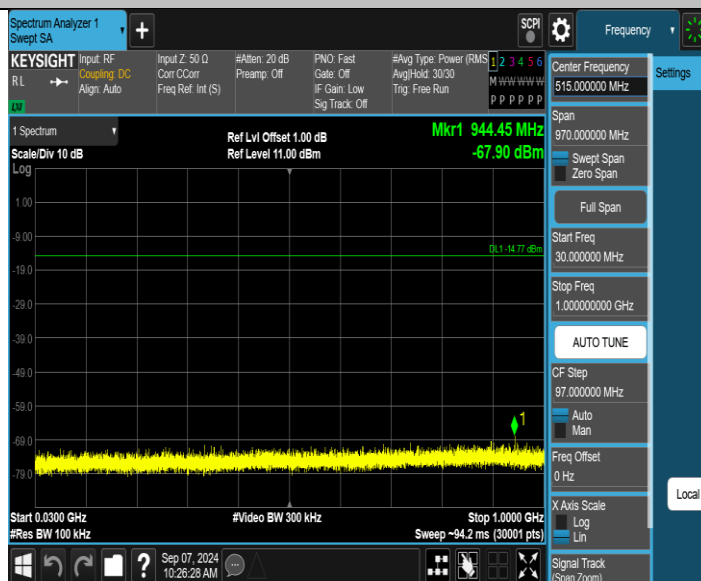
DH5_Ant1_2402_21000~23000



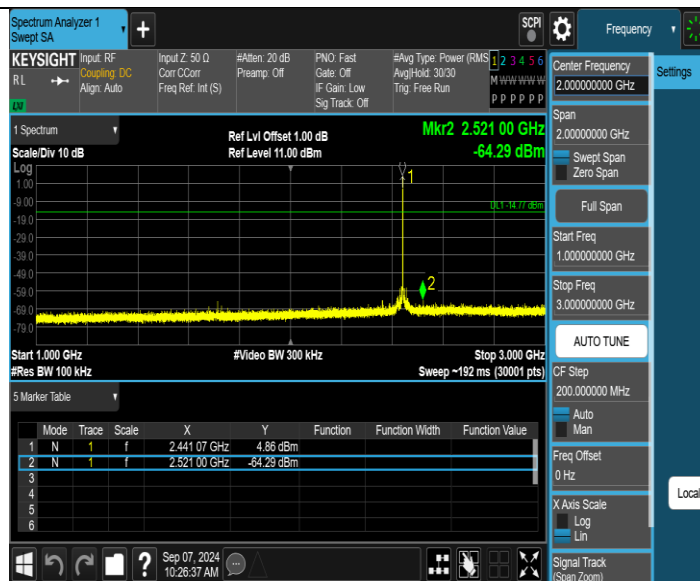
DH5_Ant1_2402_23000~25000



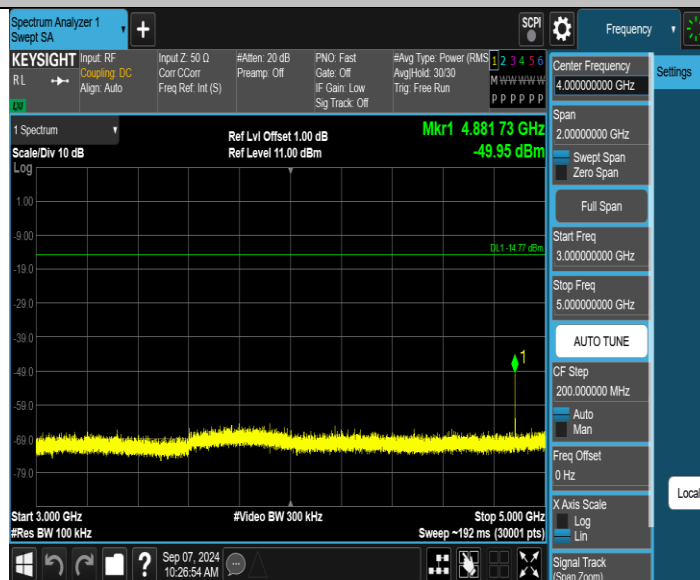
DH5_Ant1_2441_30~1000



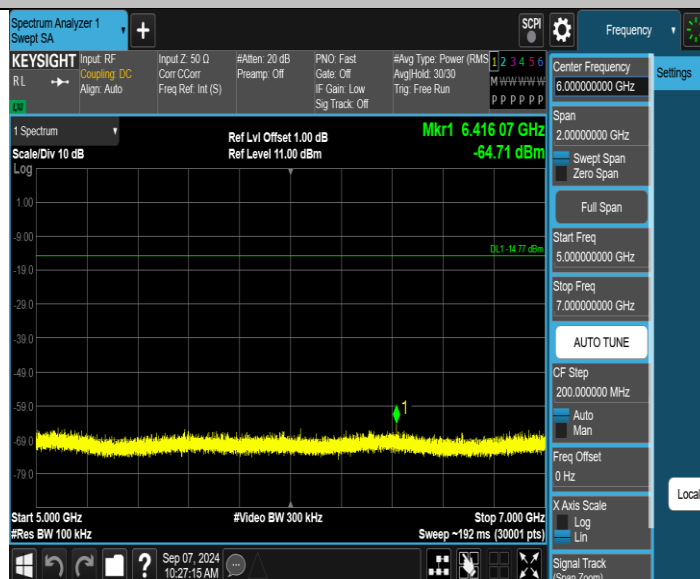
DH5_Ant1_2441_1000~3000



DH5_Ant1_2441_3000~5000



DH5_Ant1_2441_5000~7000



DH5_Ant1_2441_7000~9000