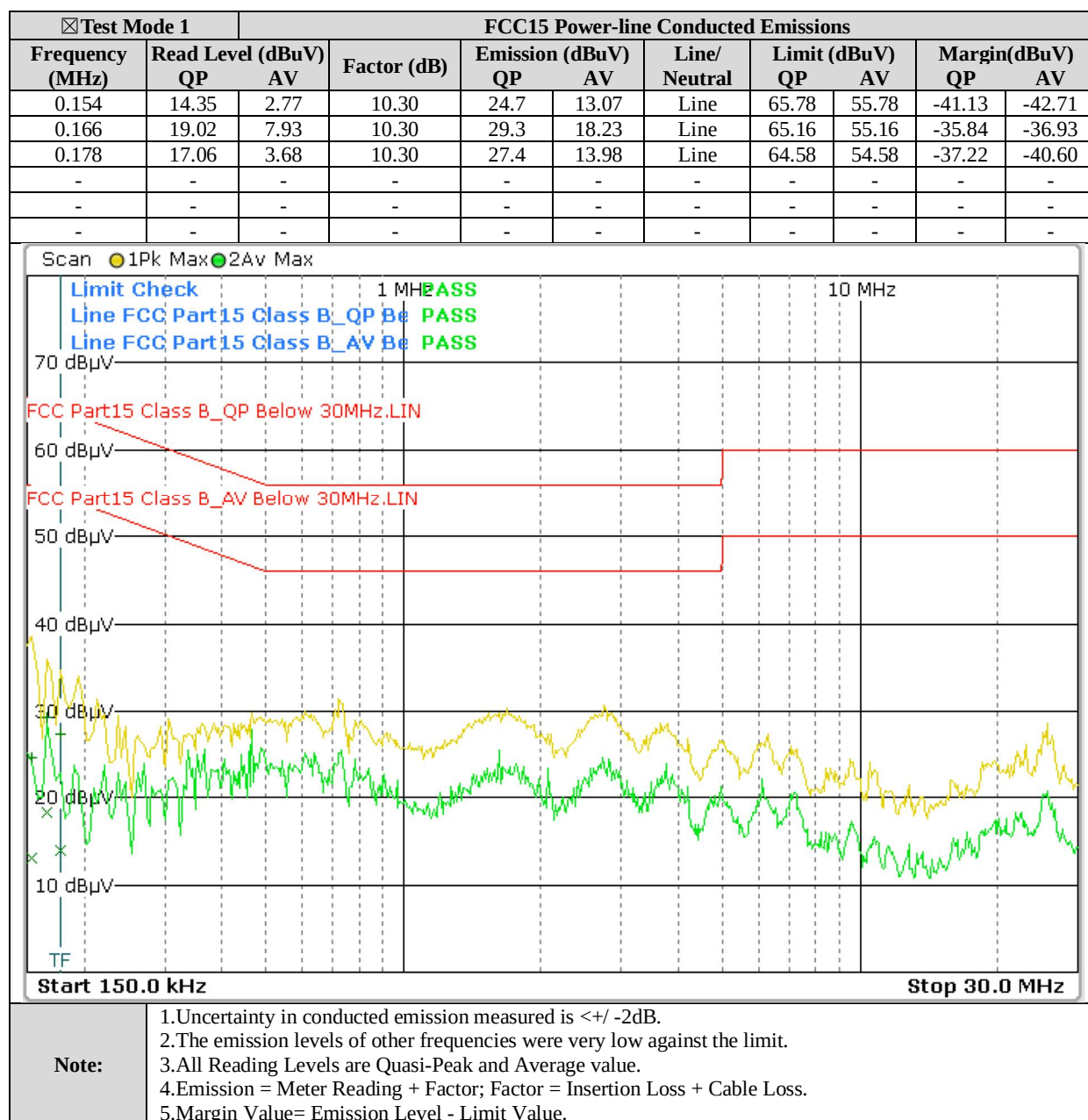
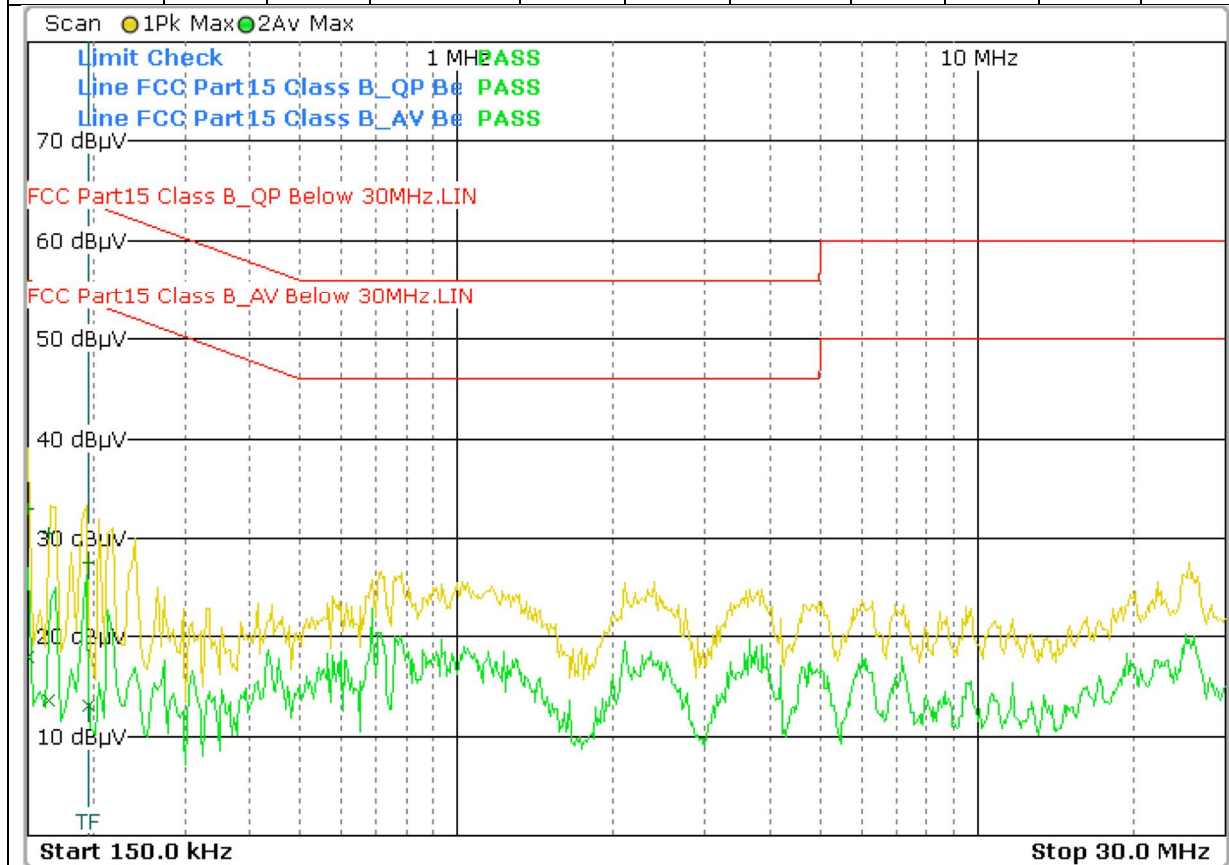


4. Conducted Power Line Test
4. 7 Conducted Power Line Test Result



☑ Test Mode 1			FCC15 Power-line Conducted Emissions							
Frequency (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV)		Line/Neutral	Limit (dBuV)		Margin(dBuV)	
	QP	AV		QP	AV		QP	AV	QP	AV
0.150	22.61	7.66	10.30	32.9	17.96	Neutral	66.00	56.00	-33.09	-38.04
0.164	20.24	3.33	10.30	30.5	13.63	Neutral	65.26	55.26	-34.72	-41.63
0.196	17.16	2.71	10.30	27.5	13.01	Neutral	63.78	53.78	-36.32	-40.77
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

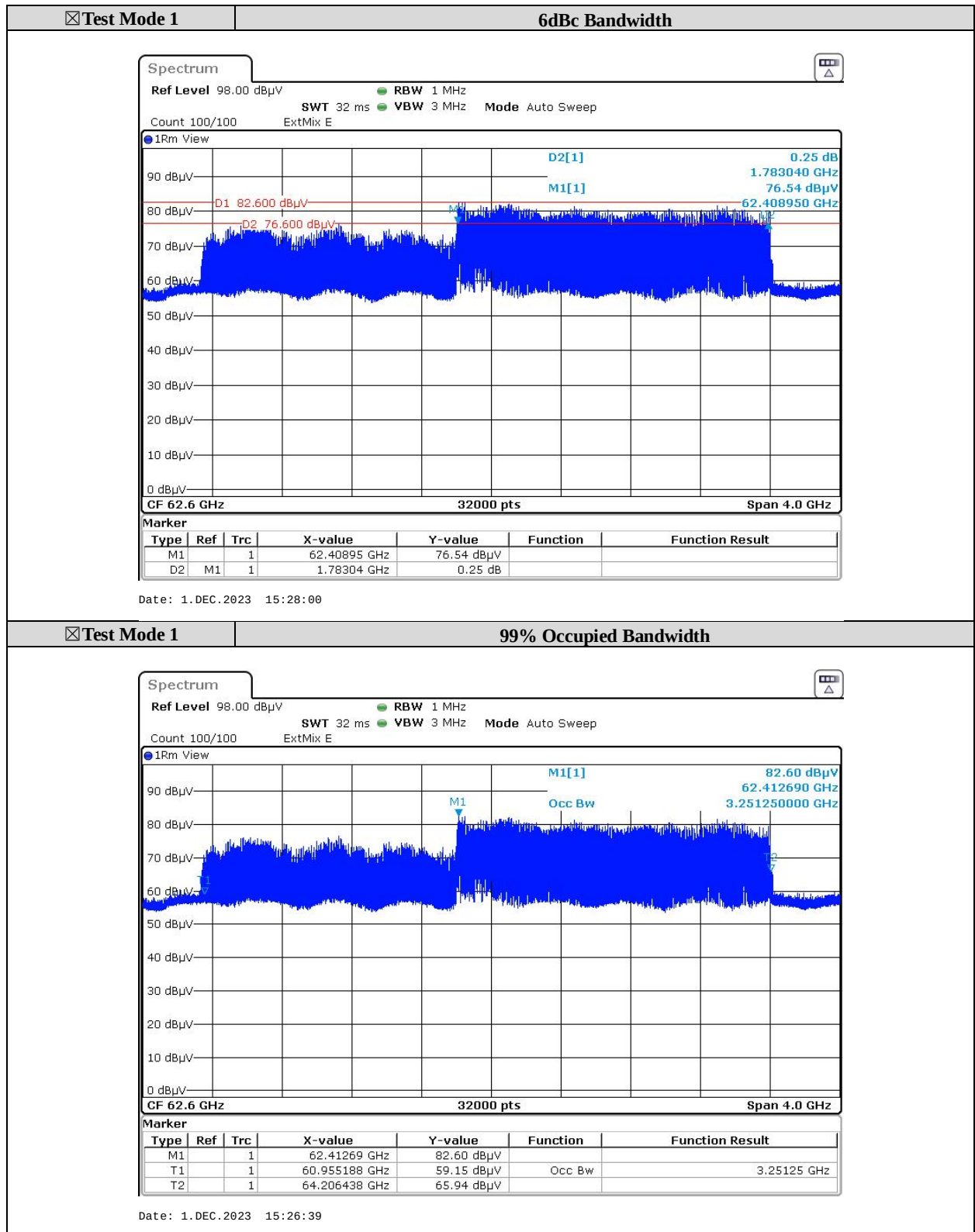


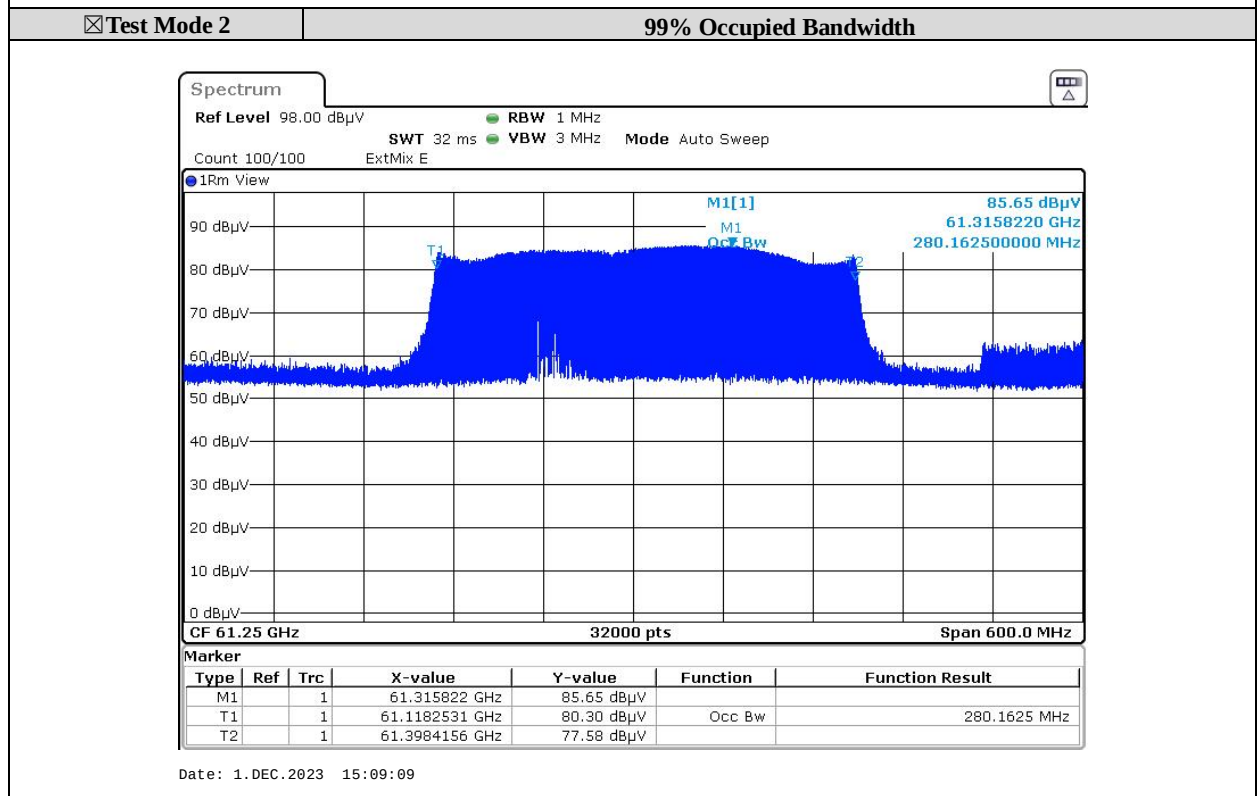
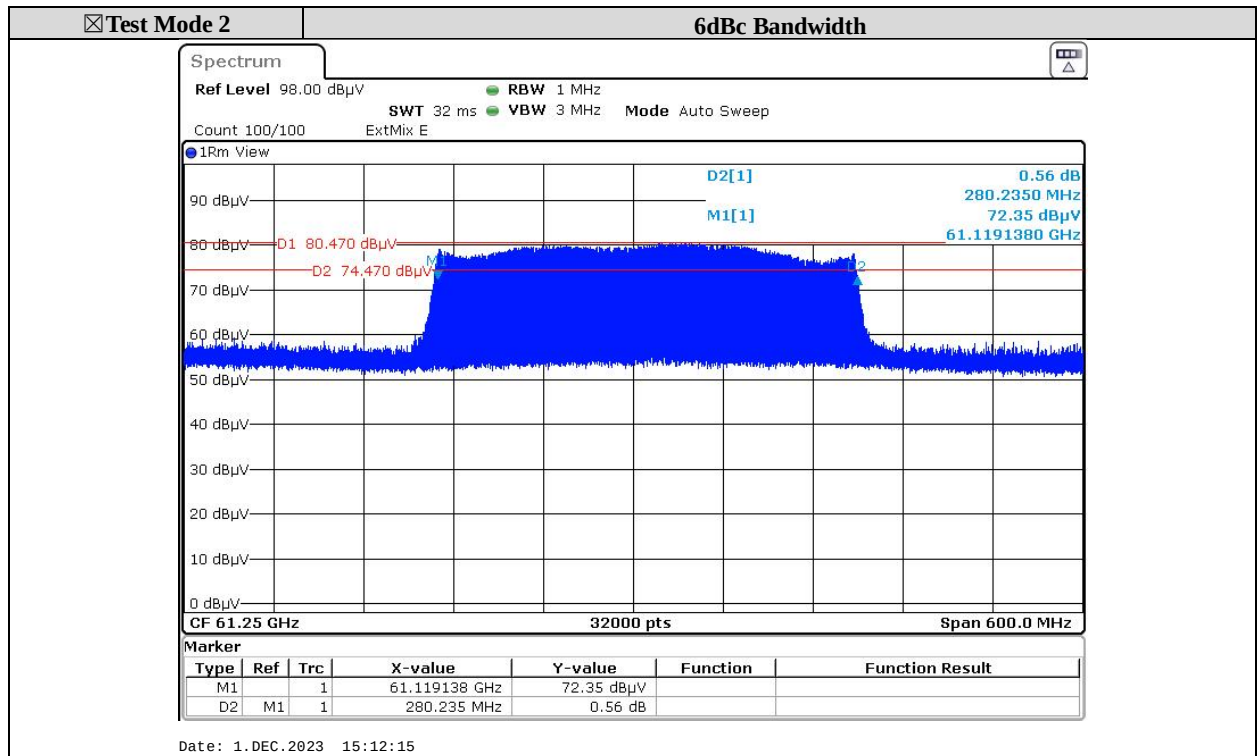
Note:

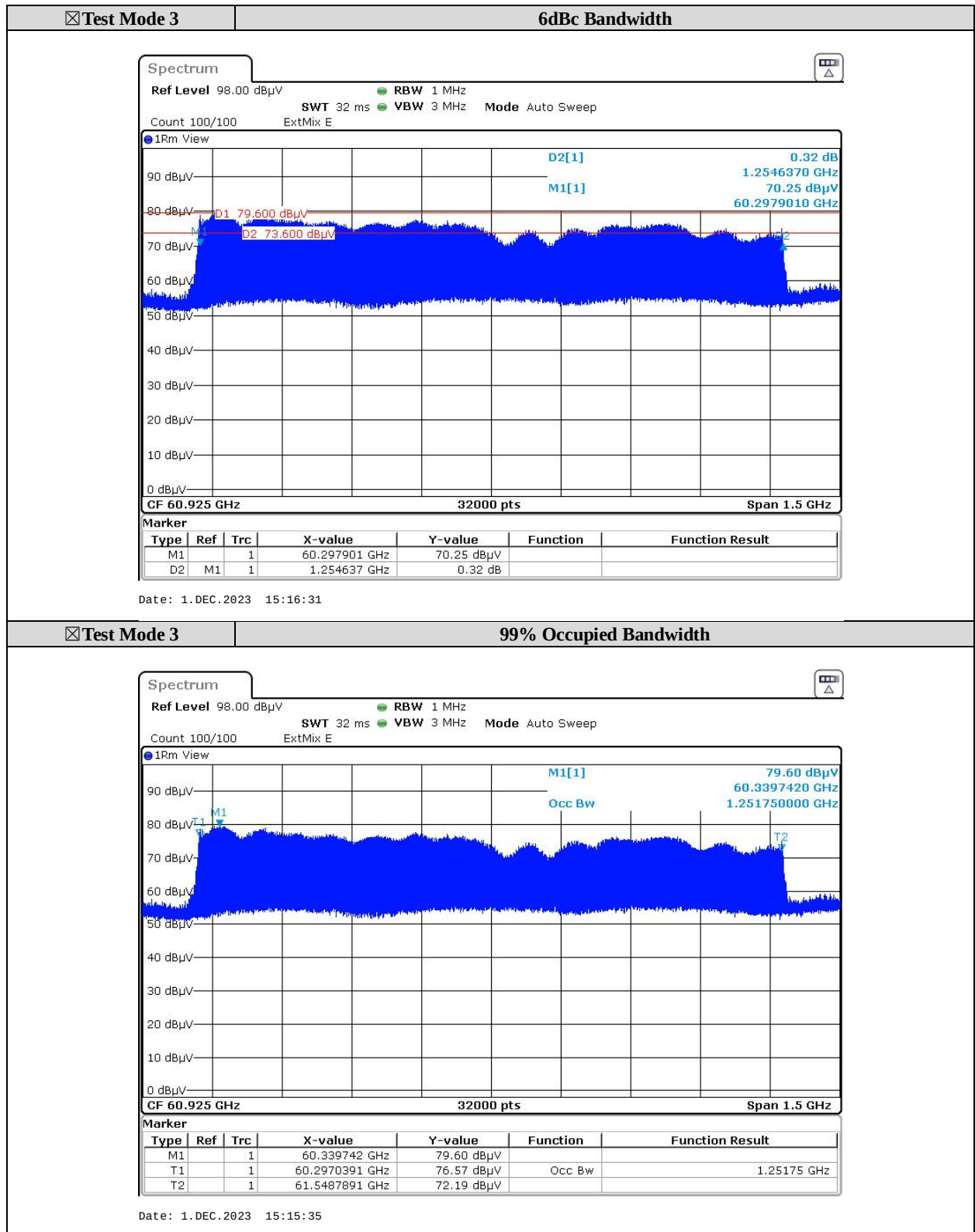
- 1.Uncertainty in conducted emission measured is <+/- 2dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level - Limit Value.

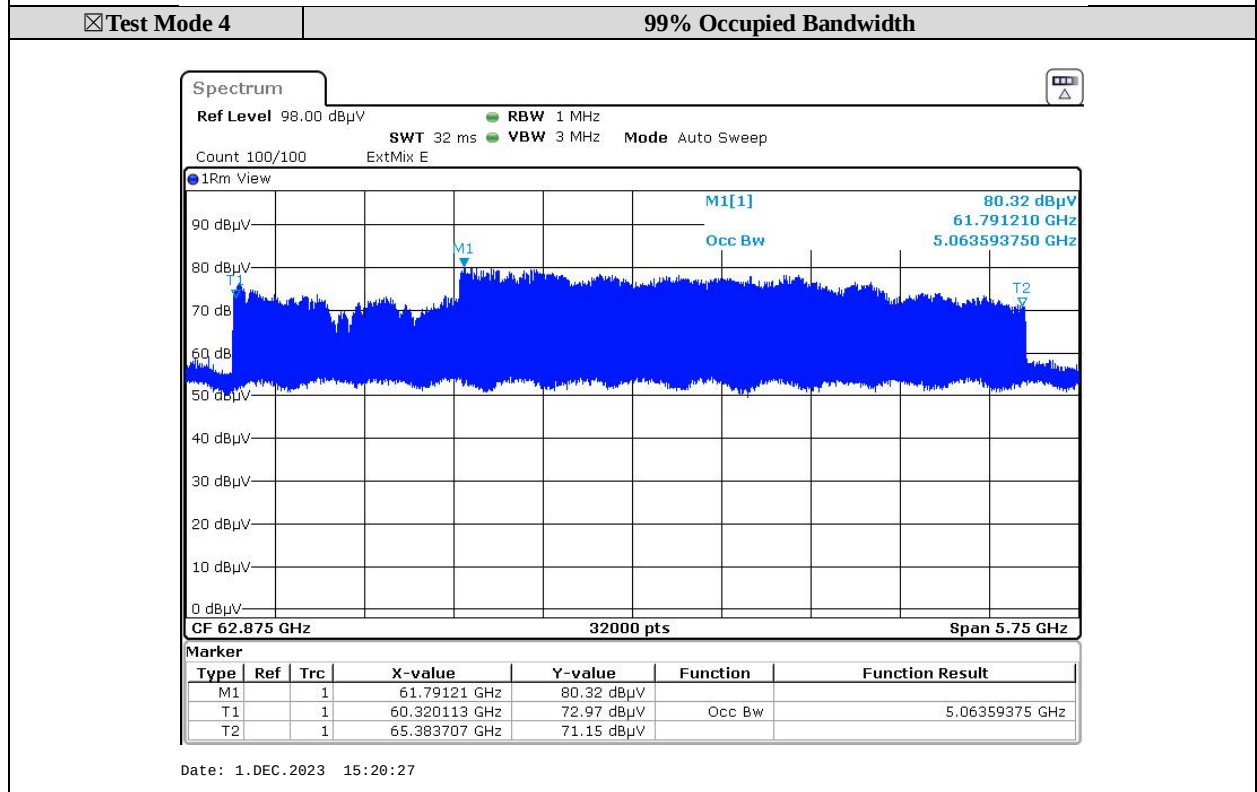
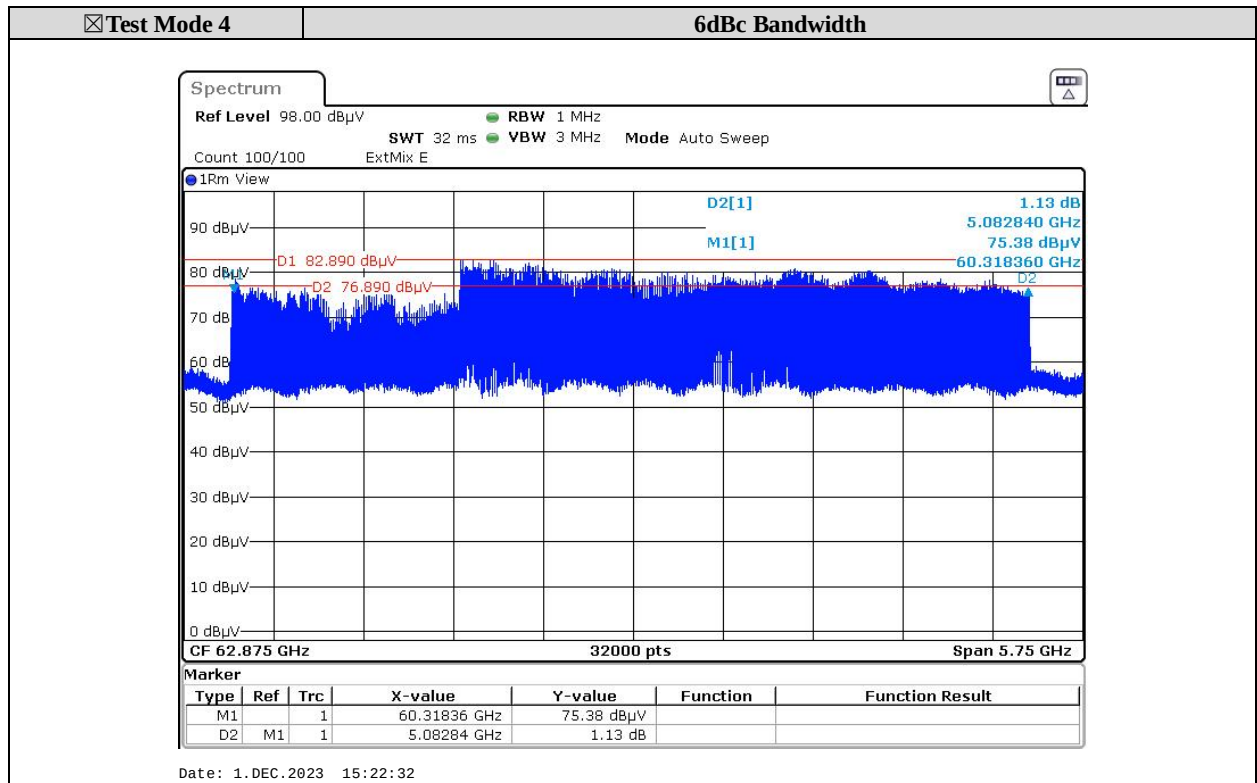
5. FCC Part 15.255 Technical Requirements
5. 1.7 Occupied Bandwidth Test Result

Occupied Bandwidth (MHz)			
Test Mode	6dBc BW	99% OBW	Limit
1	1783.040	3251.250	N/A
2	280.235	280.1625	N/A
3	1254.637	1251.750	N/A
4	5082.840	5063.590	N/A
Results:	Pass		









5. FCC Part 15.255 Technical Requirements
5. 2.7 EIRP Power Test Result

☒ Test Mode 1/2/3/4			EIRP Power									
Freq. (MHz)	DSO _{Level} (mV)		G _{Rx} (dB)	P _{meas} (dBm)		E _{meas} (dBuV/m)		@m	EIRP (dBm)		Limit (dBm)	
	PK	AV		PK	AV	PK	AV		PK	AV	PK	AV
62600.00	0.39	-	24.00	-49.96	-	99.23	-	0.55	-10.66	-	10.00	-
61250.00	2.45	1.95	24.00	-46.86	-47.65	102.14	101.35	0.55	-7.75	-8.54	43.00	40.00
60925.00	0.52	-	24.00	-50.98	-	97.97	-	0.55	-11.92	-	10.00	-
62875.00	0.26	-	24.00	-53.27	-	95.96	-	0.55	-13.94	-	10.00	-

Note:

$$E_{\text{meas}} = 126.8 - 20\log(\lambda) + P_{\text{meas}} - G_{\text{Rx}}$$

Ø E is the field strength of the emission at the measurement distance, in dBμV/m

Ø P is the power measured at the output of the test antenna, in dBm

Ø λ: is the wavelength of the emission under investigation [300/fMHz], in m

Ø G : is the gain of the test antenna, in dBi For radiated emissions, calculate the EIRP (dBm). If the measurement was performed in the far field, calculate the EIRP.

$$\text{EIRP} = E_{\text{meas}} + 20\log(\text{Measurements distance}@m) - 104.7$$

Ø EIRP is the equivalent isotopically radiated power, in dBm

Ø E_{meas} is the field strength of the emission at the measurement distance, in dBμV/m

Ø @m is the measurement distance, in m

☐ The EIRP was evaluated on vertical and horizontal polarization, the worst case is Vertical polarization.

☒ The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.

5. FCC Part 15.255 Technical Requirements
5. 3.4 Peak Conducted Power Test Result

☒ Test Mode 1/2/3/4		Peak Tx Conducted Output Power					
Frequency (MHz)	EIRP (dBm)	G _{EUT} (dBi)	Peak Power (dBm)	Peak Power (mW)	6dB BW (MHz)	Limit (dBm)	Result
62600.00	-10.66	5.00	-15.66	-	1783.040	-10	Pass
61250.00	-7.75	5.00	-12.75	-	280.235	No limit	Pass
60925.00	-11.92	5.00	-16.92	-	1254.637	-10	Pass
62875.00	-13.94	5.00	-18.94	-	5082.840	-10	Pass
Note:	Ø For radiated emission measurments, calculate conducted transmitter output power P(cond)(dBm) $P(\text{cond}) = \text{EIRP} - G_{\text{EUT}} (\text{dBi})$						
	Ø EIRP is the equivalent isotopically radiated power, in dBm						
	Ø G _{EUT} is the gain of the EUT antenna, in dBi						
	□ The EIRP was evaluated on vertical and horizontal polarization, the worst case is Vertical polarization.						
	☑ The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.						

5. FCC Part 15.255 Technical Requirements
5. 4.4 Frequency Stability Test Result

☒ Test Mode 3/4		Frequency Stability				
Operating Voltage (Vac)	Test Temperature (°C)	Test Mode 3		Test Mode 4		Limit (GHz)
		Frequency (MHz)	Delta Frequency (MHz)	Frequency (MHz)	Delta Frequency (MHz)	
120	50.00	60923.250	-1.750	62781.810	-93.190	57~71
120	40.00	60926.750	1.750	62783.340	-91.660	57~71
120	30.00	60926.310	1.310	62882.210	7.210	57~71
120	20.00	60927.620	2.620	62878.210	3.210	57~71
120	10.00	60975.440	50.440	62876.530	1.530	57~71
120	0.00	60926.090	1.090	62820.750	-54.250	57~71
120	-10.00	60875.970	-49.030	62882.000	7.000	57~71
120	-20.00	60927.400	2.400	62857.940	-17.060	57~71
102	25.00	60926.530	1.530	62874.120	-0.880	57~71
120	25.00	60925.000	Reference	62875.000	Reference	57~71
138	25.00	60926.750	1.750	62876.390	1.390	57~71
Note:		☒ Manufacturer's specified temperature range -20 ~ 50°C				

5. FCC Part 15.255 Technical Requirements
5. 5.2 Assessment Result

FCC 15.255 Rule	Conclusion
Operation Restriction	The Manufacture declares that EUT will not been used on aircraft or satellites. Then user manual will include a statement to caution EUT is not permitted for on aircraft or satellites.
Group Installation	The frequency, amplitude and phase of the transmit signal are set within EUT. There are no external phase-locking inputs or any other means of combining two or more units together to realize a beam-forming array.
Note:	For details refer to Statement & User Manual.

6. Radiated Emission Test for FCC Part 15.255
6. 7 Radiated Emission Test Result

☑ Test Mode 1			Field strength of Spurious Emission in 40 ~ 200GHz Range (see plot)								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
-	-	-	-	-	-	Horiz./	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Vert.	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Horiz./	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Vert.	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Horiz./	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Vert.	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☒ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 1			Field strength of Spurious Emission in 1 ~ 40GHz Range								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
1798.90	46.03	37.23	-0.83	45.20	36.40	Horiz.	3.00	74.00	54.00	-28.80	-
1200.22	41.66	35.80	-1.34	40.32	34.46	Vert.	3.00	74.00	54.00	-33.68	-
25660.24	37.83	25.12	10.51	48.34	35.63	Horiz./	3.00	74.00	54.00	-25.66	-
23533.12	42.57	30.08	6.64	49.21	36.72	Vert.	3.00	74.00	54.00	-24.79	-
28798.50	39.72	35.70	11.51	51.23	47.21	Horiz./	3.00	74.00	54.00	-22.77	-
33622.32	30.51	18.61	14.59	45.10	33.20	Vert.	3.00	74.00	54.00	-28.90	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☒ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 2			Field strength of Spurious Emission in 40 ~ 200GHz Range (see plot)								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
-	-	-	-	-	-	Horiz./	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Vert.	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Horiz./	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Vert.	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Horiz./	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Vert.	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☒ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 2			Field strength of Spurious Emission in 1 ~ 40GHz Range								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
1850.62	42.91	34.89	-0.60	42.31	34.29	Horiz./	3.00	74.00	54.00	-31.69	-
1200.66	46.55	27.10	-1.34	45.21	25.76	Vert.	3.00	74.00	54.00	-28.79	-
23570.52	43.48	29.62	6.64	50.12	36.26	Horiz./	3.00	74.00	54.00	-23.88	-
25032.22	38.70	25.58	10.51	49.21	36.09	Vert.	3.00	74.00	54.00	-24.79	-
28798.62	41.17	37.75	11.51	52.68	49.26	Horiz./	3.00	74.00	54.00	-21.32	-
30269.86	34.93	21.57	14.45	49.38	36.02	Vert.	3.00	74.00	54.00	-24.62	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☒ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 3			Field strength of Spurious Emission in 40 ~ 200GHz Range (see plot)								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
-	-	-	-	-	-	Horiz./	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Vert.	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Horiz./	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Vert.	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Horiz./	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Vert.	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☑ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 3			Field strength of Spurious Emission in 1 ~ 40GHz Range								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
1800.23	45.85	37.05	-0.60	45.25	36.45	Horiz./	3.00	74.00	54.00	-28.75	-
1199.23	43.52	34.96	-1.31	42.21	33.65	Vert.	3.00	74.00	54.00	-31.79	-
22242.25	40.56	27.69	5.71	46.27	33.40	Horiz./	3.00	74.00	54.00	-27.73	-
23534.36	42.99	30.19	6.64	49.63	36.83	Vert.	3.00	74.00	54.00	-24.37	-
28798.85	40.90	35.19	11.51	52.41	46.70	Horiz./	3.00	74.00	54.00	-21.59	-
36609.87	34.13	22.11	13.96	48.09	36.07	Vert.	3.00	74.00	54.00	-25.91	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☑ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 4			Field strength of Spurious Emission in 40 ~ 200GHz Range (see plot)								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
-	-	-	-	-	-	Horiz./	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Vert.	0.86	116.15	96.15	-	-
-	-	-	-	-	-	Horiz./	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Vert.	0.55	120.04	100.04	-	-
-	-	-	-	-	-	Horiz./	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Vert.	0.50	120.86	100.86	-	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☑ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

☑ Test Mode 4			Field strength of Spurious Emission in 1 ~ 40GHz Range								
Freq. (MHz)	Read Level (dBuV)		Factor (dB)	Emission (dBuV/m)		Horiz./ Vert.	@m	Limit (dBuV/m)		Margin(dB)	
	PK	AV		PK	AV			PK	AV	PK	AV
1856.26	38.81	24.87	-0.60	38.21	24.27	Horiz./	3.00	74.00	54.00	-35.79	-
1200.25	42.17	34.05	-1.34	40.83	32.71	Vert.	3.00	74.00	54.00	-33.17	-
19256.66	36.95	23.78	8.26	45.21	32.04	Horiz./	3.00	74.00	54.00	-28.79	-
23560.26	43.48	29.64	6.64	50.12	36.28	Vert.	3.00	74.00	54.00	-23.88	-
28798.36	40.65	35.83	11.51	52.16	47.34	Horiz./	3.00	74.00	54.00	-21.84	-
30193.65	33.42	20.01	14.45	47.87	34.46	Vert.	3.00	74.00	54.00	-26.13	-
-	-	-	-	-	-	Horiz./	-	-	-	-	-
-	-	-	-	-	-	Vert.	-	-	-	-	-
Note:			☑ EUT is the continue transmitters, 100% (Duty Cycle). ☐ EUT is the pulsed transmitters, the average value shall consider the peak value plus the duty cycle factor.								

Note:			(1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary. (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor. (3) Emission Level = Reading Level + Probe Factor + Cable Loss.								
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☑ Test Mode 1		Field strength of Spurious Emission Below 30MHz				
Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Emission (dBuV/m)	Horiz./ Vert.	Limit (dBuV/m)	Margin (dB)
N/A						
N/A						
N/A						
N/A						
N/A						
N/A						

Note:	(1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary. (2) “N/A” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that’s already beyond the background noise floor. (3) Emission Level = Reading Level + Probe Factor + Cable Loss.
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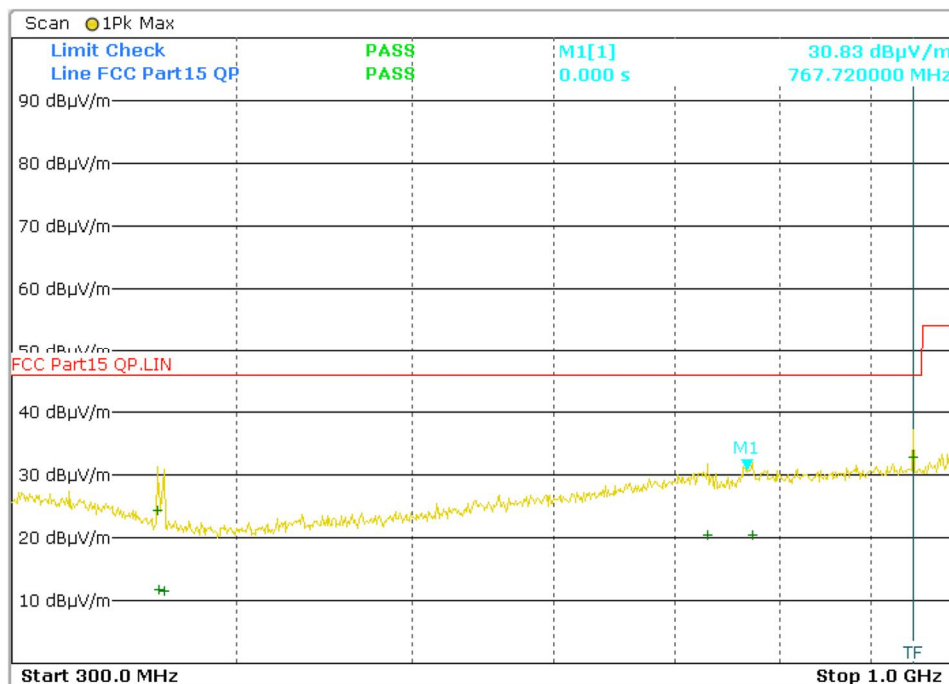
☒ Test Mode 1 – 30MHz to 1000MHz -> H

Field strength of Spurious Emission

Trace	Frequency	Level (dB μ V/m)	Phase	Detector	Delta Limit/dB
1	196.360000000 MHz	27.50		Quasi Peak	-16.00
1	199.040000000 MHz	27.25		Quasi Peak	-16.25
1	241.480000000 MHz	34.75		Quasi Peak	-11.25
1	289.960000000 MHz	34.94		Quasi Peak	-11.06
1	295.600000000 MHz	29.01		Quasi Peak	-16.99
1	297.080000000 MHz	30.04		Quasi Peak	-15.96



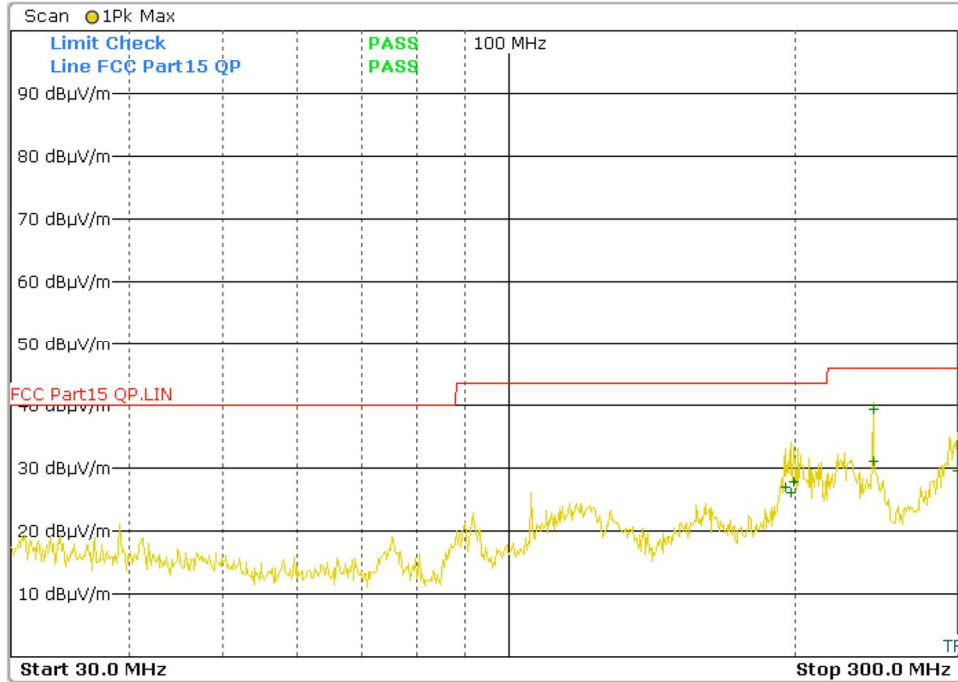
Trace	Frequency	Level (dB μ V/m)	Phase	Detector	Delta Limit/dB
1	361.200000000 MHz	24.31		Quasi Peak	-21.69
1	362.160000000 MHz	11.70		Quasi Peak	-34.30
1	364.800000000 MHz	11.62		Quasi Peak	-34.38
1	729.920000000 MHz	20.46		Quasi Peak	-25.54
1	772.760000000 MHz	20.41		Quasi Peak	-25.59
1	948.360000000 MHz	32.79		Quasi Peak	-13.21



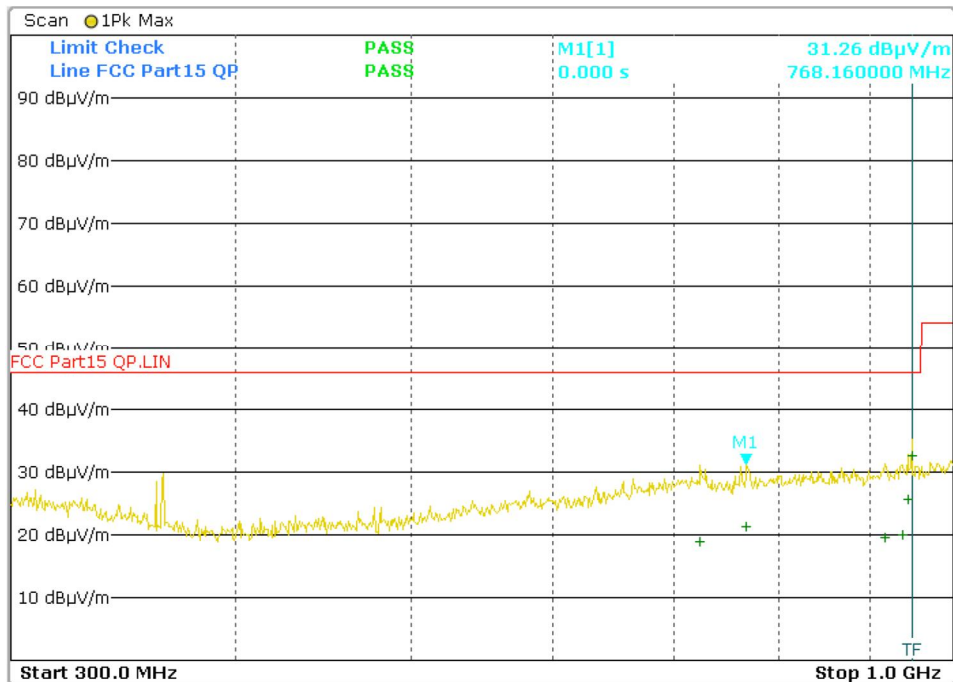
☒ Test Mode 1 – 30MHz to 1000MHz -> V

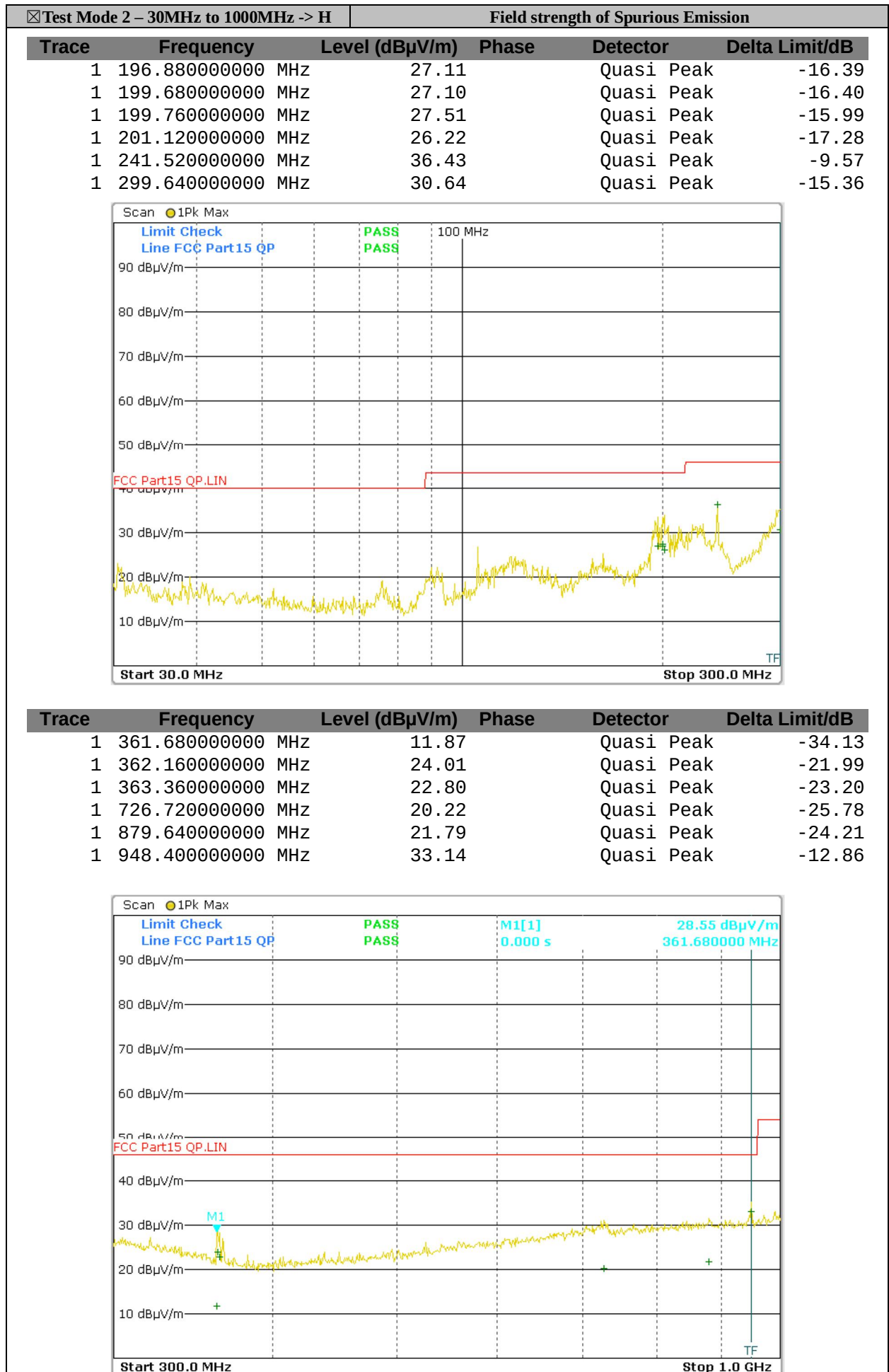
Field strength of Spurious Emission

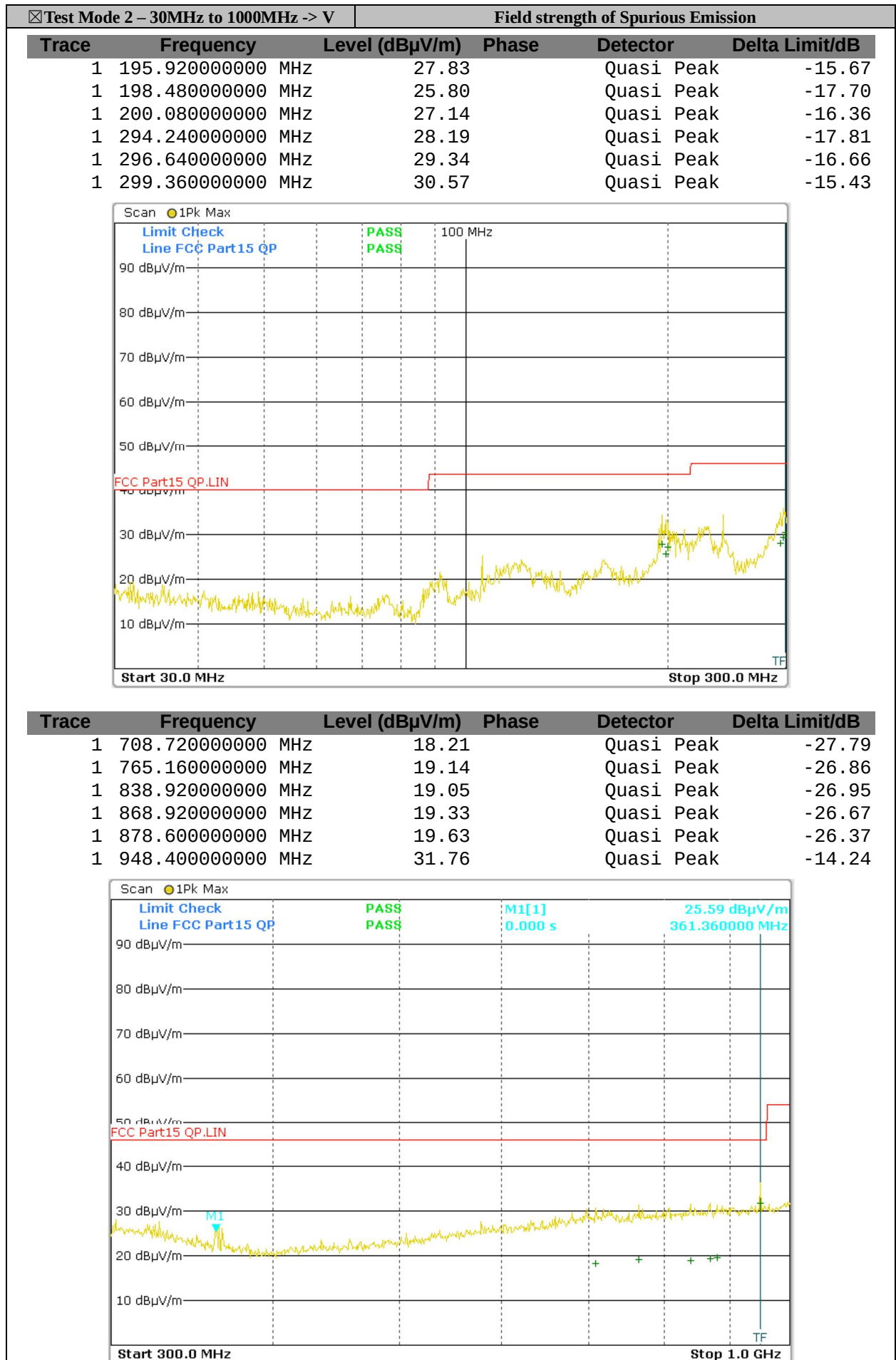
Trace	Frequency	Level (dBμV/m)	Phase	Detector	Delta Limit/dB
1	195.120000000 MHz	27.02		Quasi Peak	-16.48
1	198.000000000 MHz	26.08		Quasi Peak	-17.42
1	199.560000000 MHz	27.78		Quasi Peak	-15.72
1	241.400000000 MHz	31.07		Quasi Peak	-14.93
1	241.600000000 MHz	39.40		Quasi Peak	-6.60
1	296.240000000 MHz	29.68		Quasi Peak	-16.32



Trace	Frequency	Level (dBμV/m)	Phase	Detector	Delta Limit/dB
1	724.040000000 MHz	19.03		Quasi Peak	-26.97
1	768.160000000 MHz	21.35		Quasi Peak	-24.65
1	916.240000000 MHz	19.58		Quasi Peak	-26.42
1	937.560000000 MHz	20.11		Quasi Peak	-25.89
1	944.760000000 MHz	25.66		Quasi Peak	-20.34
1	948.440000000 MHz	32.77		Quasi Peak	-13.23



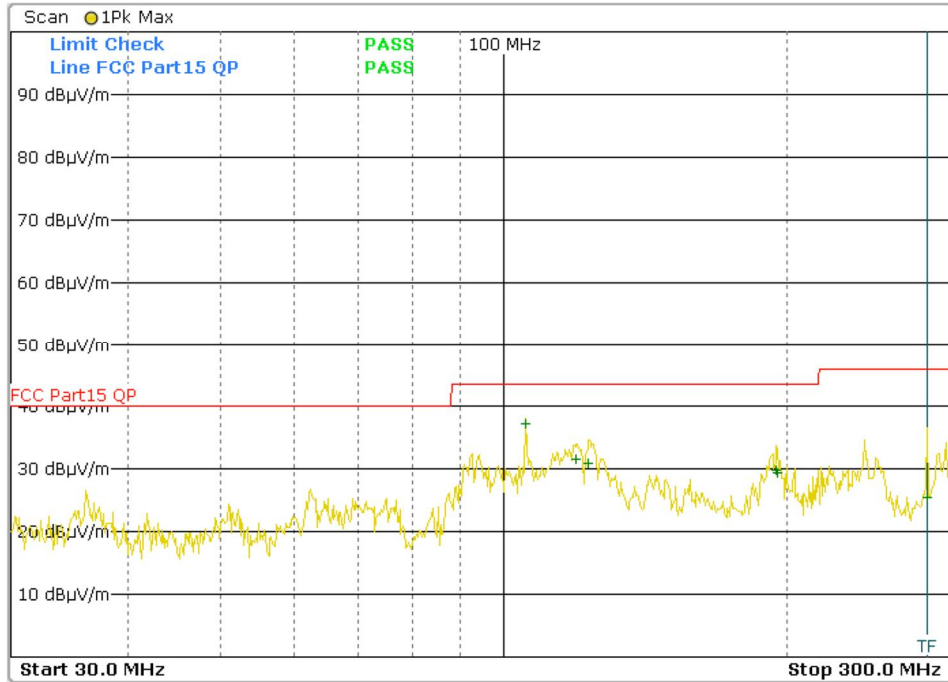




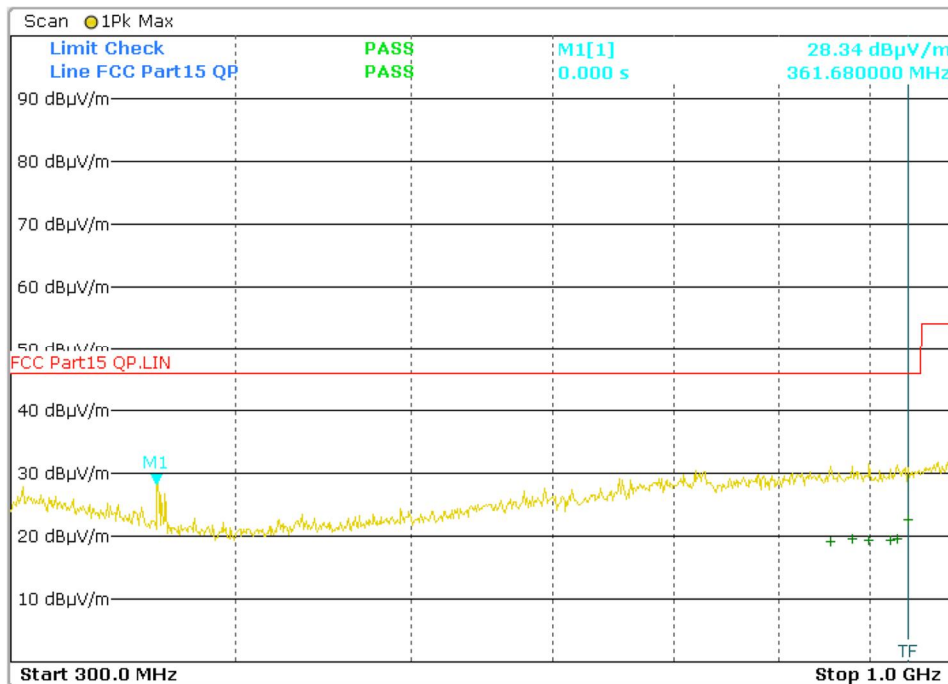
☑ Test Mode 3 – 30MHz to 1000MHz -> H

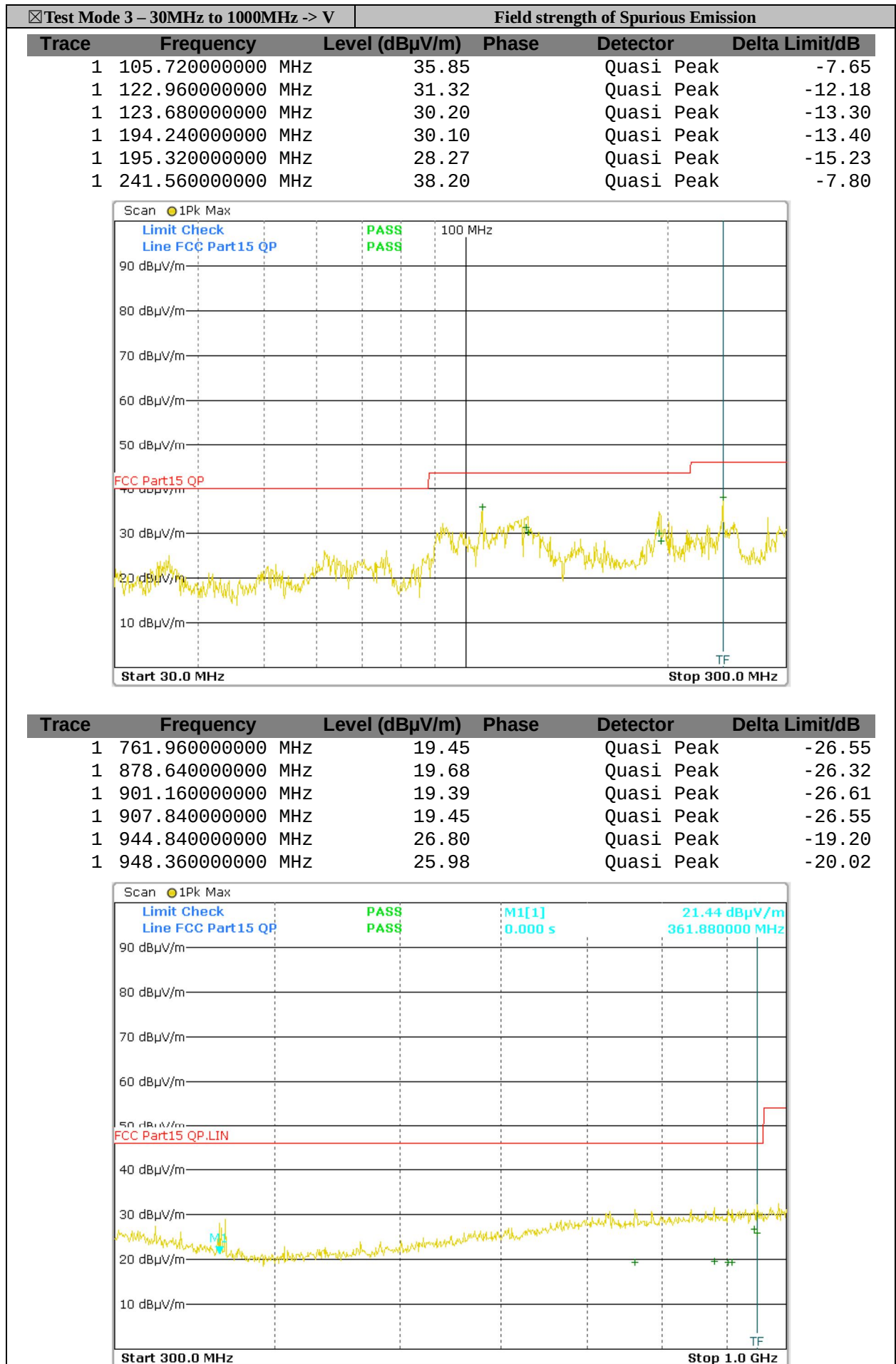
Field strength of Spurious Emission

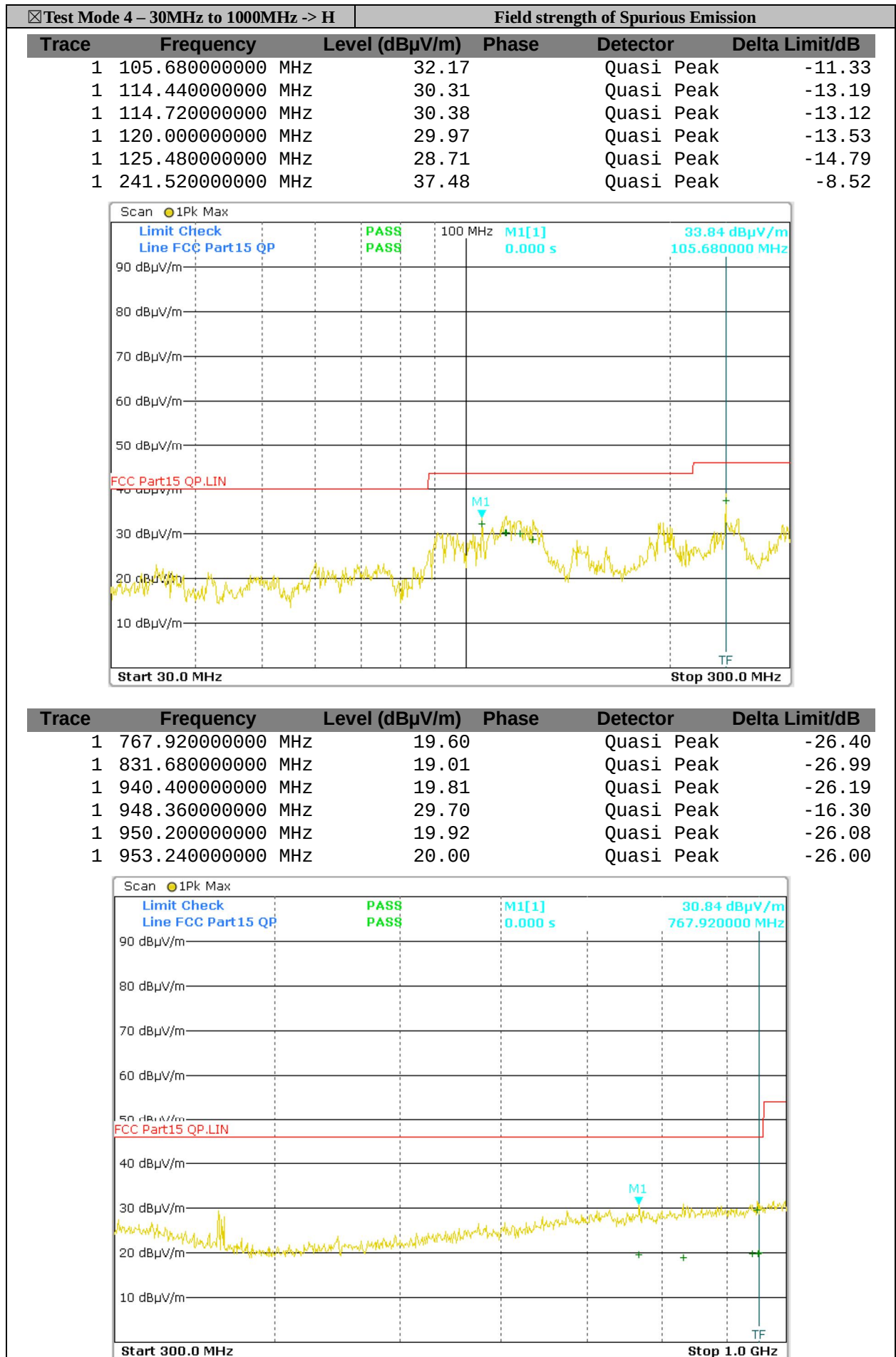
Trace	Frequency	Level (dBμV/m)	Phase	Detector	Delta Limit/dB
1	105.680000000 MHz	37.32		Quasi Peak	-6.18
1	119.240000000 MHz	31.67		Quasi Peak	-11.83
1	122.960000000 MHz	30.95		Quasi Peak	-12.55
1	194.800000000 MHz	29.74		Quasi Peak	-13.76
1	195.440000000 MHz	29.40		Quasi Peak	-14.10
1	281.760000000 MHz	25.41		Quasi Peak	-20.59



Trace	Frequency	Level (dBμV/m)	Phase	Detector	Delta Limit/dB
1	855.480000000 MHz	19.22		Quasi Peak	-26.78
1	879.000000000 MHz	19.50		Quasi Peak	-26.50
1	898.440000000 MHz	19.35		Quasi Peak	-26.65
1	923.640000000 MHz	19.43		Quasi Peak	-26.57
1	931.520000000 MHz	19.68		Quasi Peak	-26.32
1	944.840000000 MHz	22.60		Quasi Peak	-23.40



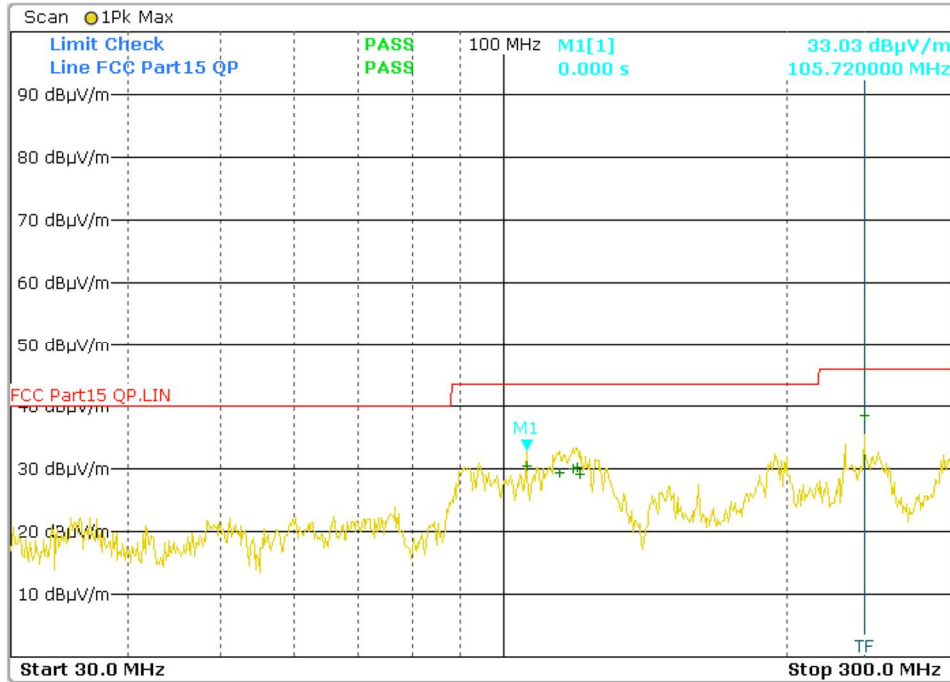




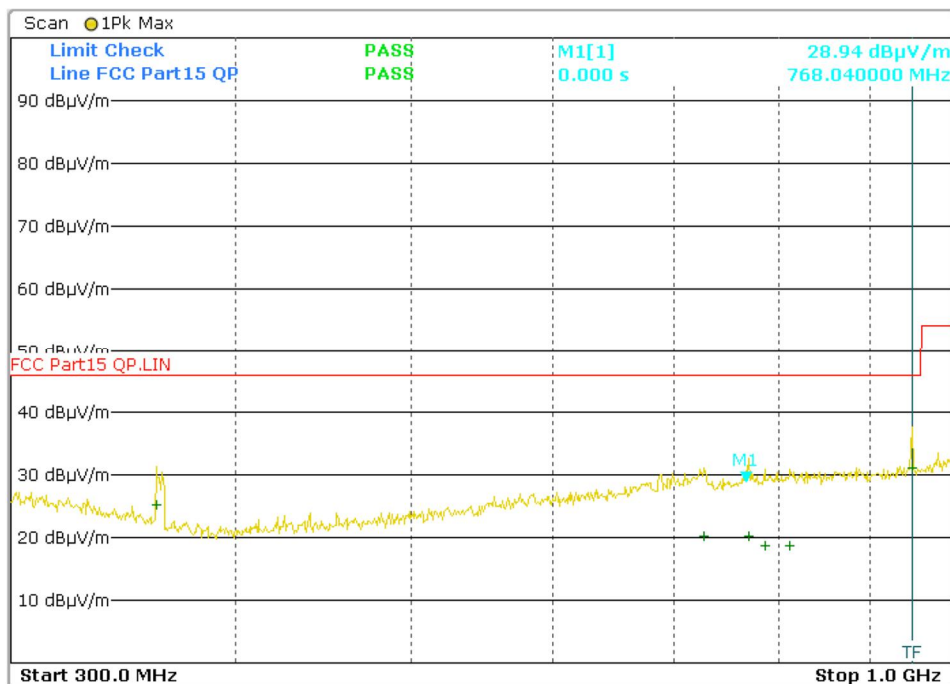
☒ Test Mode 4 – 30MHz to 1000MHz -> V

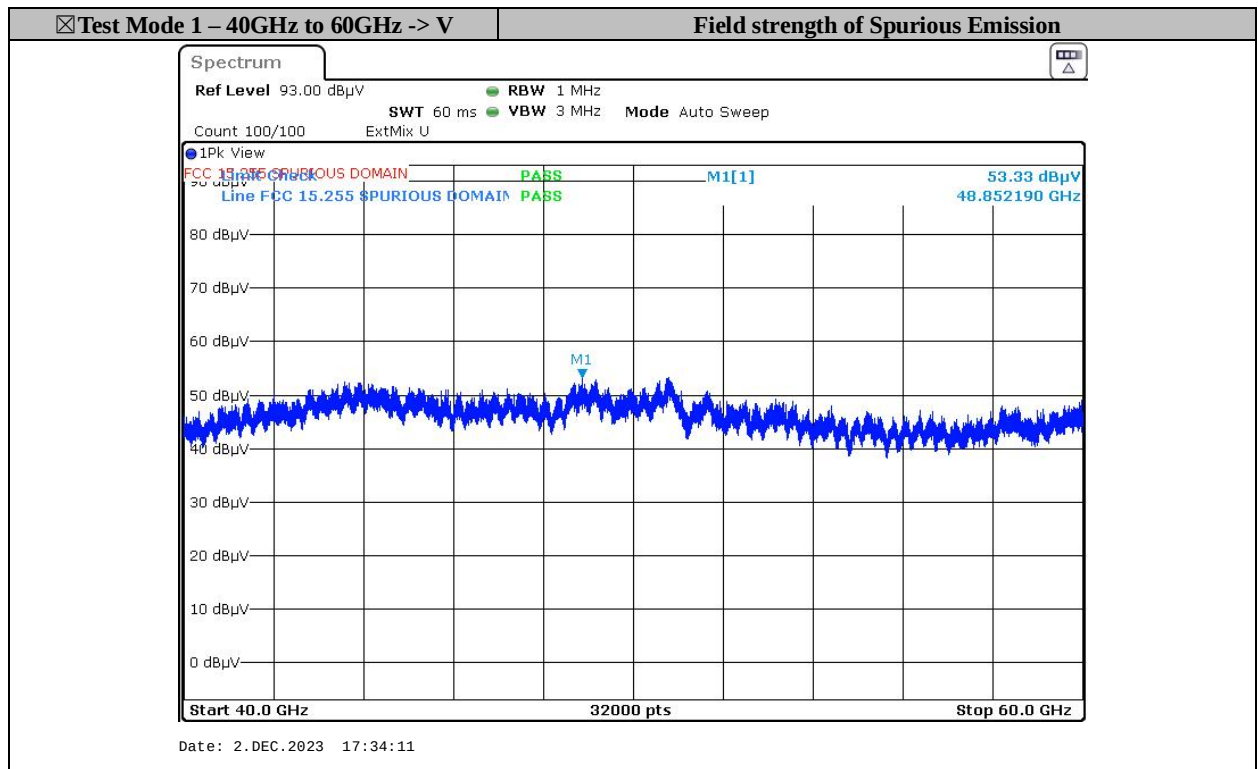
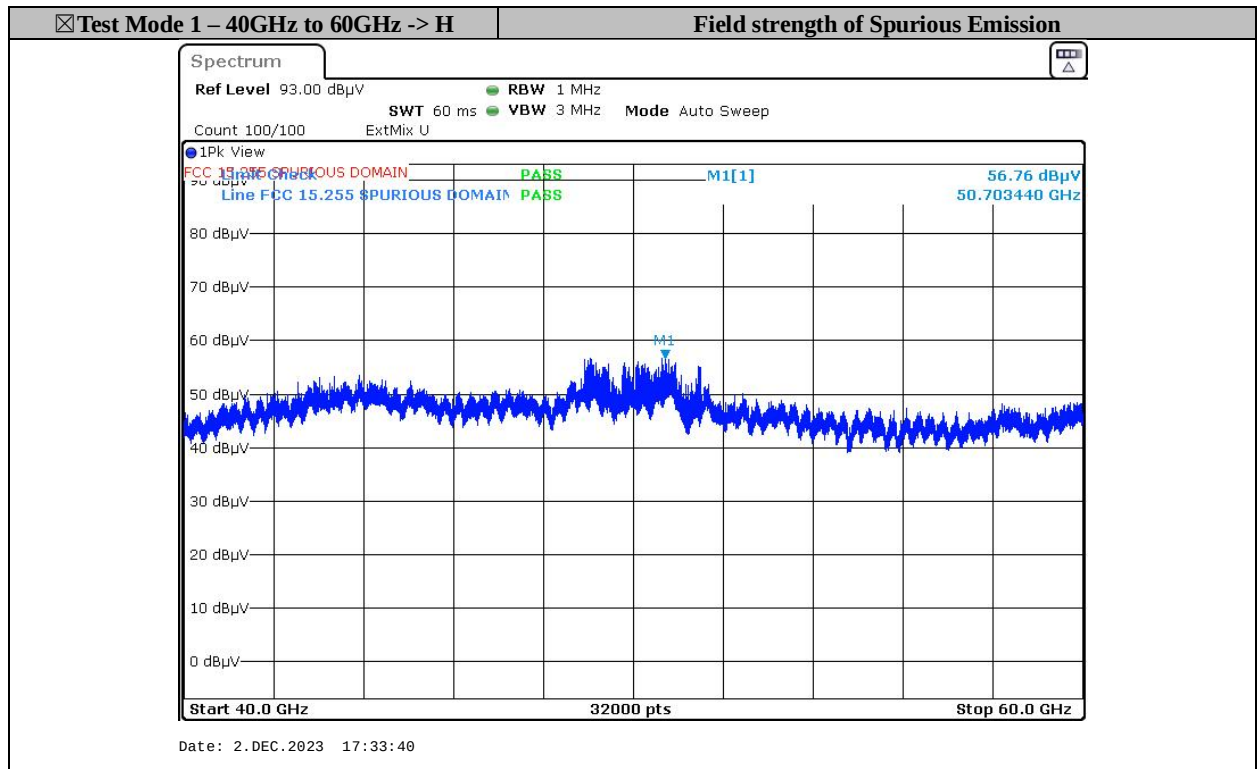
Field strength of Spurious Emission

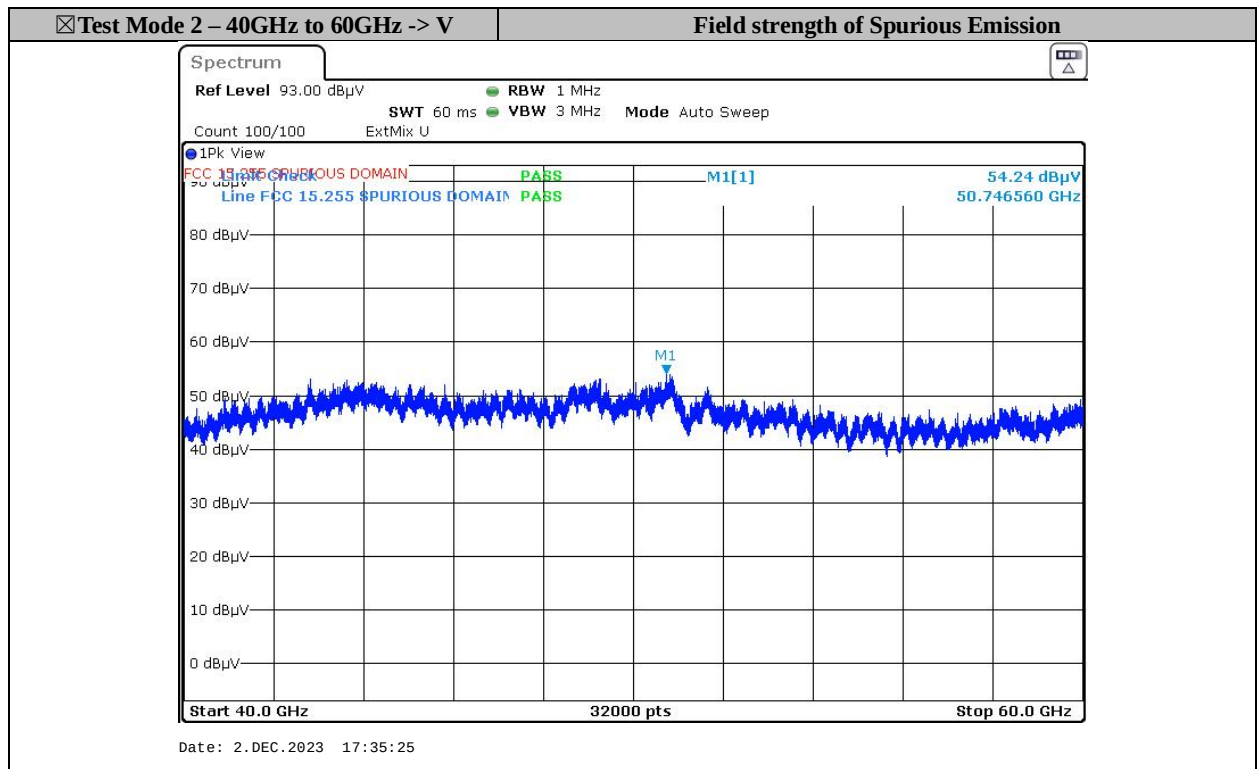
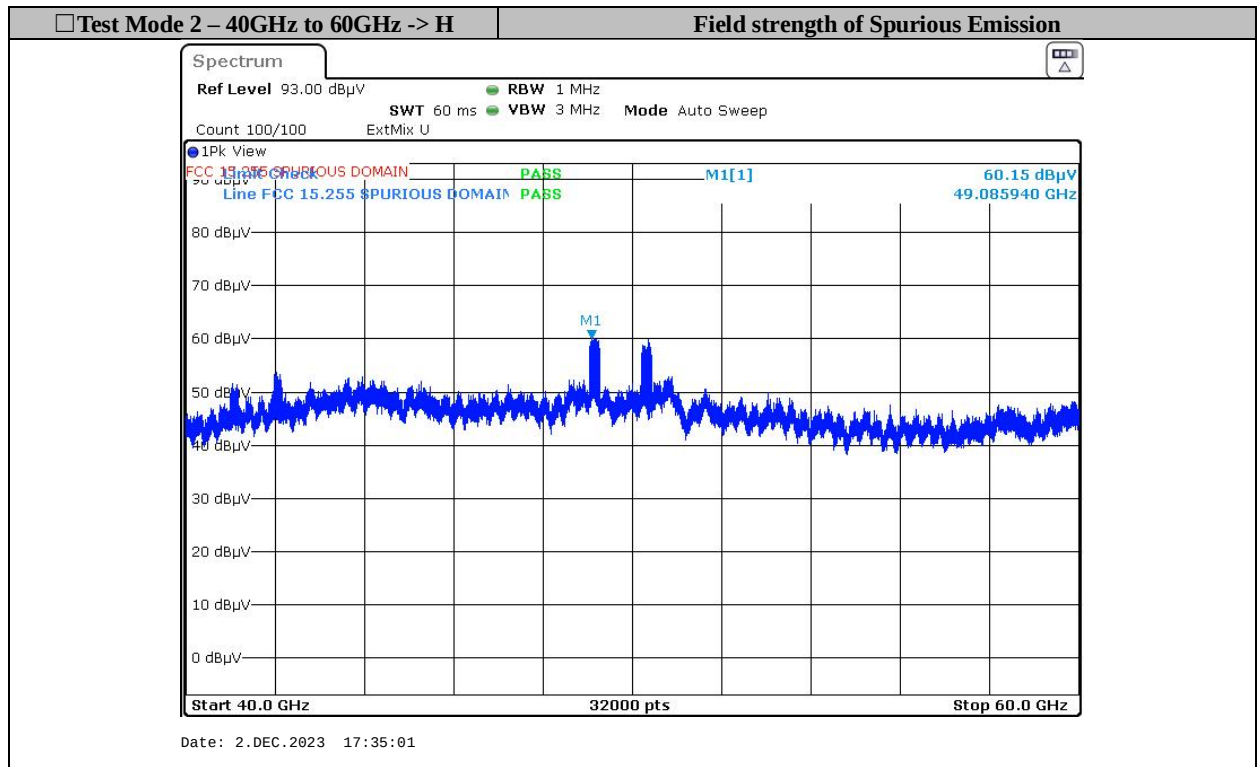
Trace	Frequency	Level (dBμV/m)	Phase	Detector	Delta Limit/dB
1	105.720000000 MHz	30.45		Quasi Peak	-13.05
1	114.560000000 MHz	29.51		Quasi Peak	-13.99
1	118.480000000 MHz	30.08		Quasi Peak	-13.42
1	119.800000000 MHz	30.33		Quasi Peak	-13.17
1	120.480000000 MHz	29.21		Quasi Peak	-14.29
1	241.600000000 MHz	38.60		Quasi Peak	-7.40

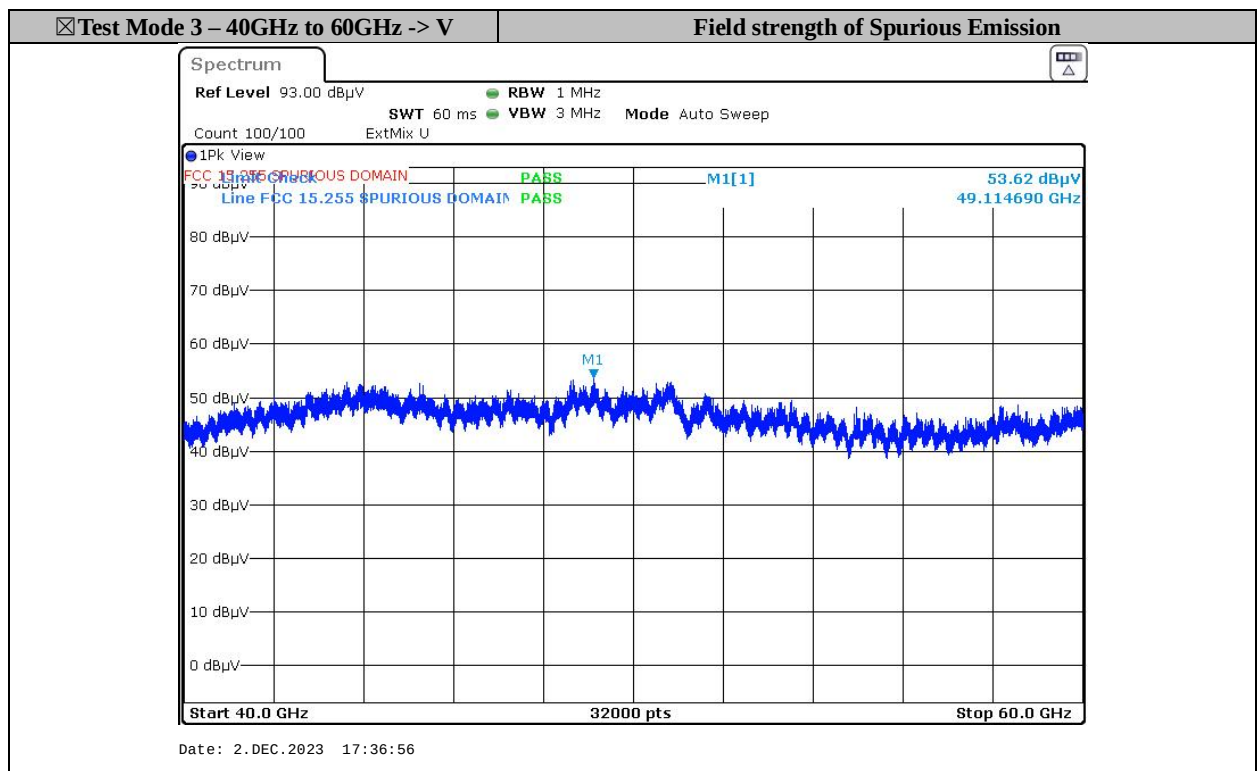
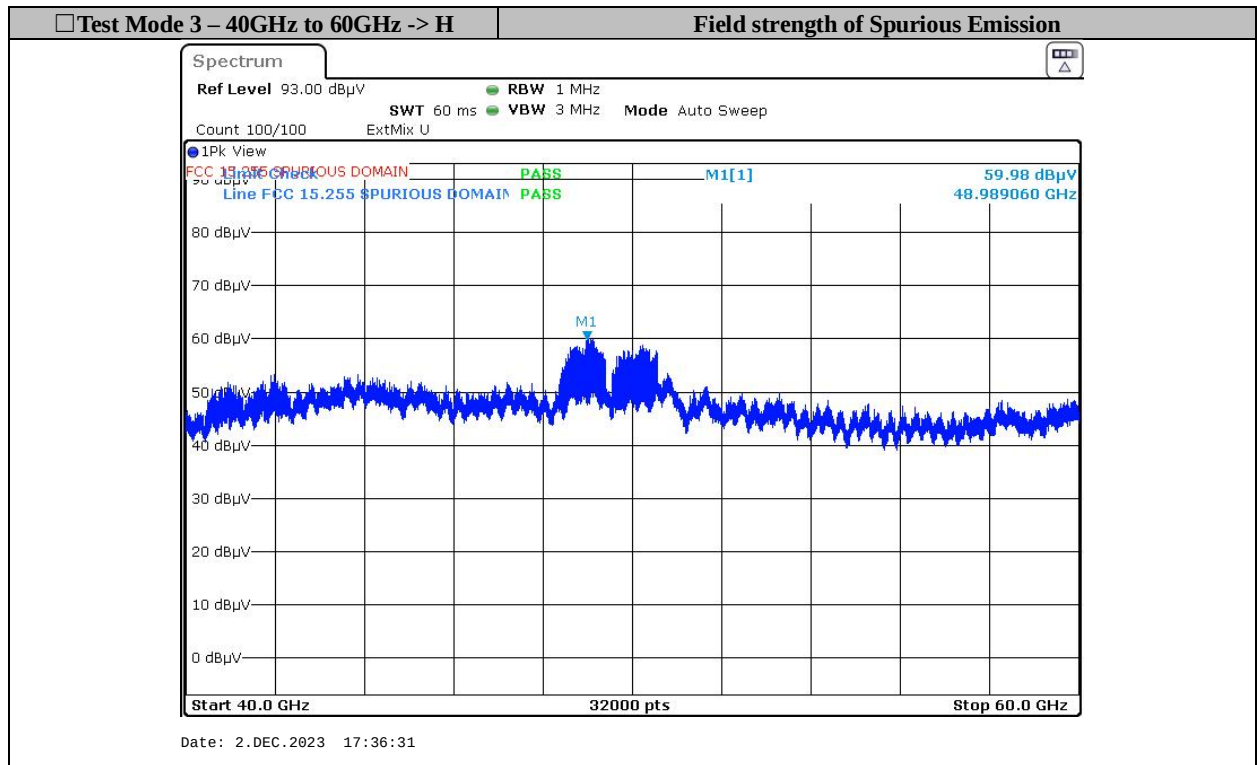


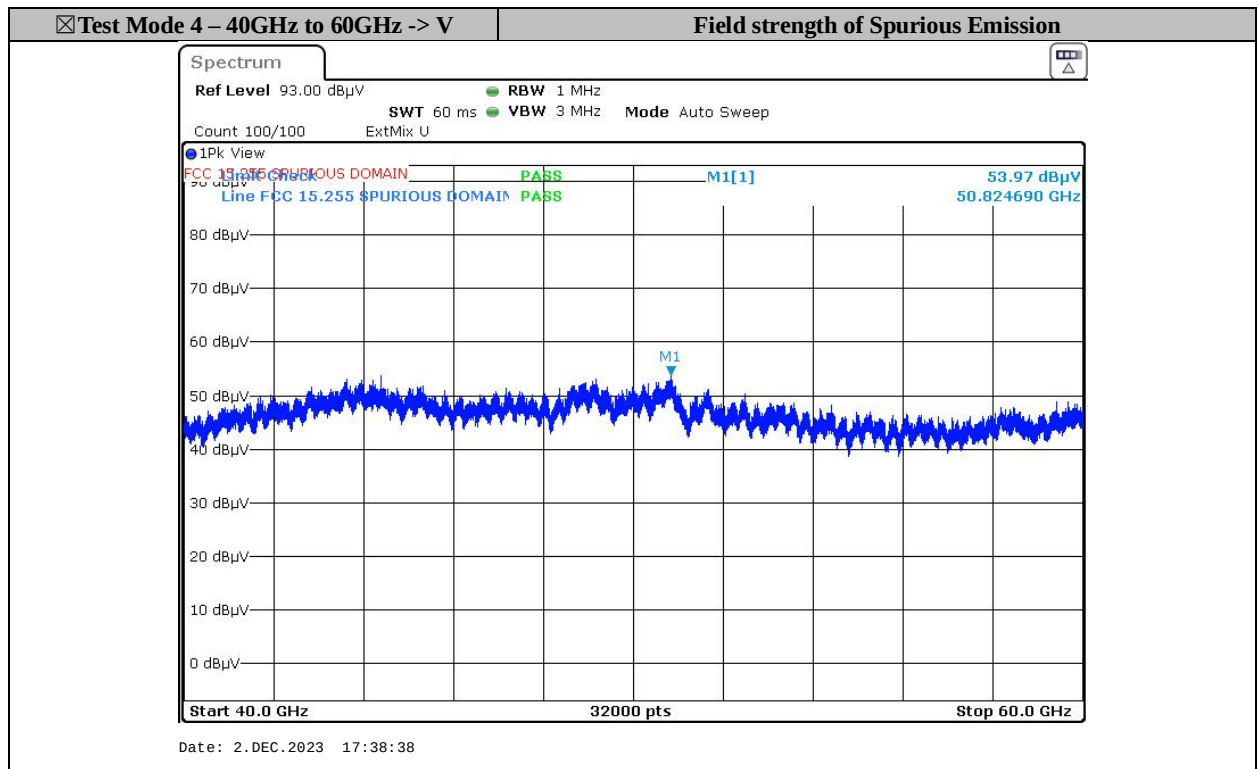
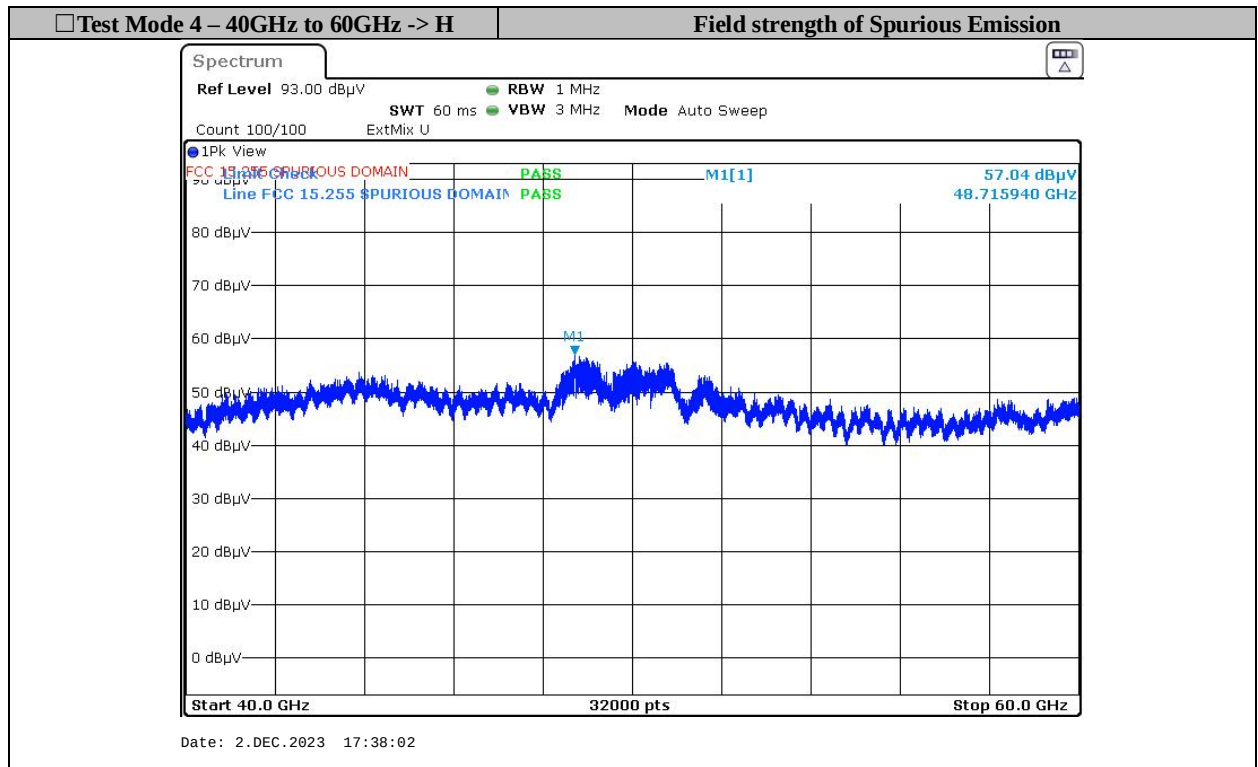
Trace	Frequency	Level (dBμV/m)	Phase	Detector	Delta Limit/dB
1	361.200000000 MHz	25.20		Quasi Peak	-20.80
1	727.400000000 MHz	20.27		Quasi Peak	-25.73
1	769.800000000 MHz	20.33		Quasi Peak	-25.67
1	786.520000000 MHz	18.80		Quasi Peak	-27.20
1	812.120000000 MHz	18.82		Quasi Peak	-27.18
1	948.440000000 MHz	31.16		Quasi Peak	-14.84

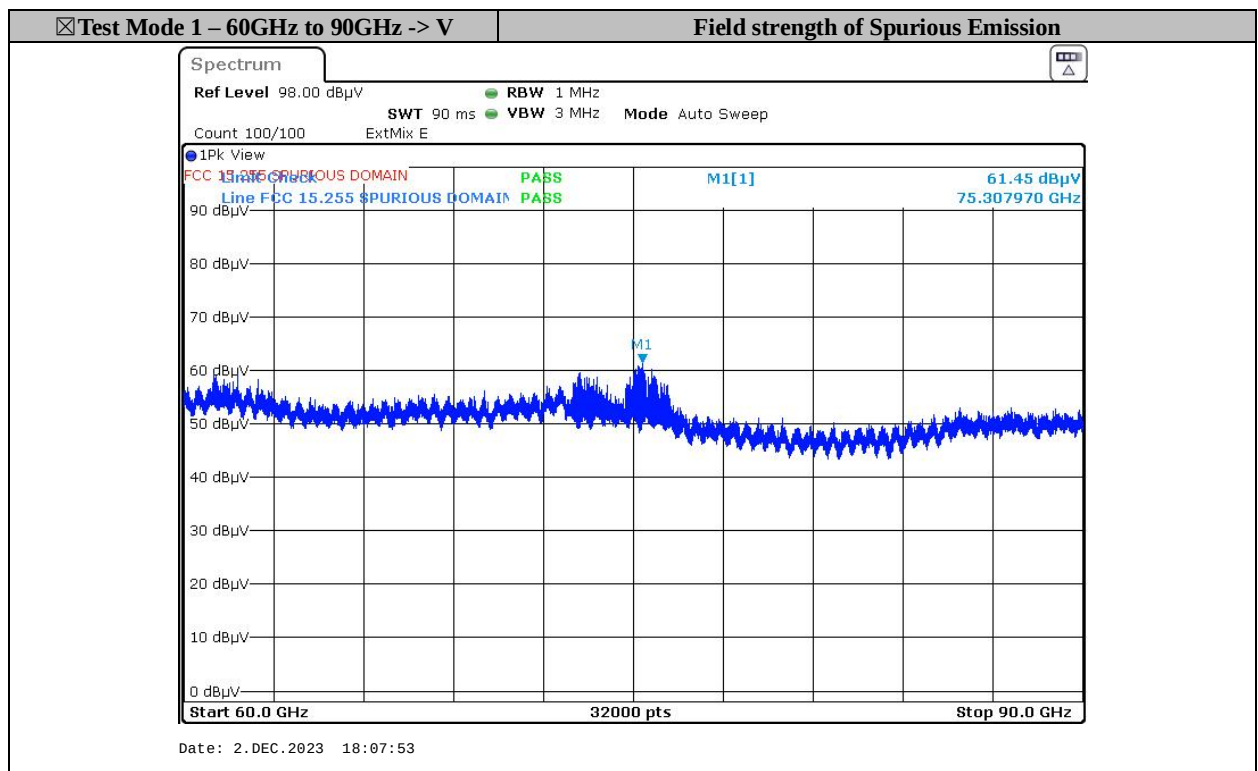
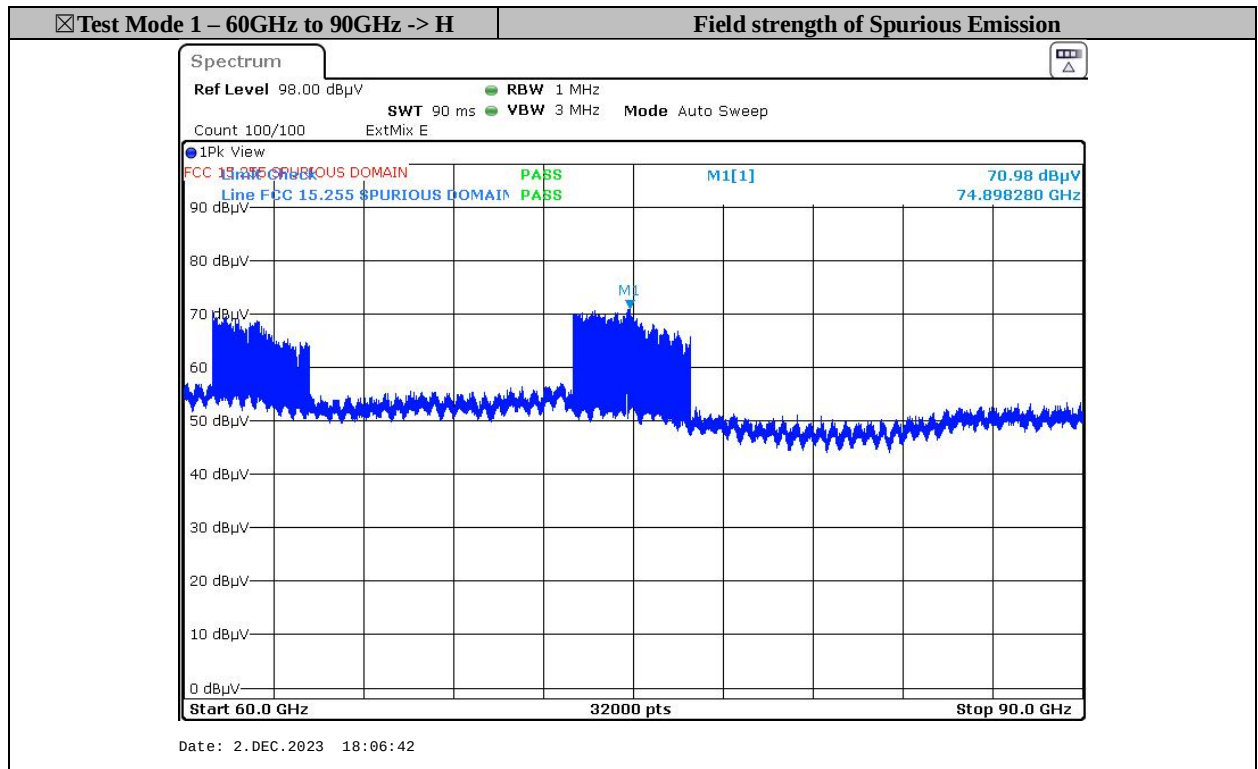


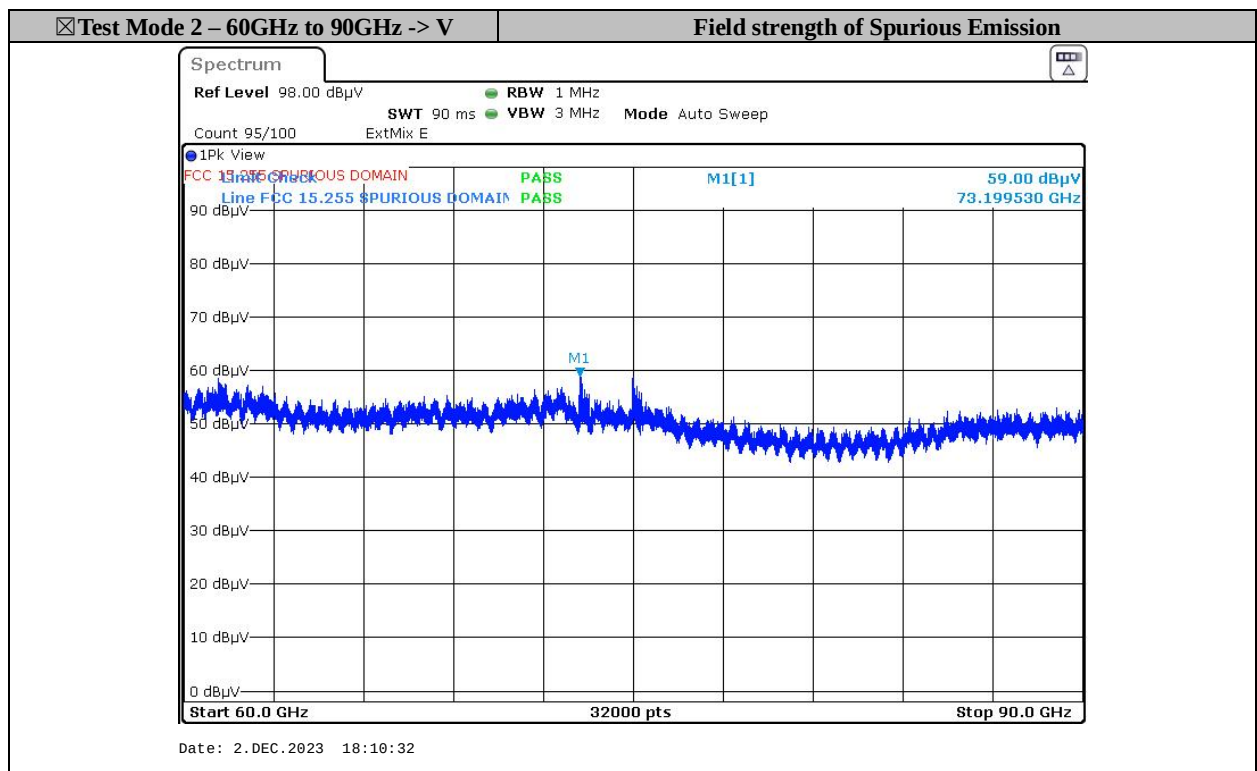
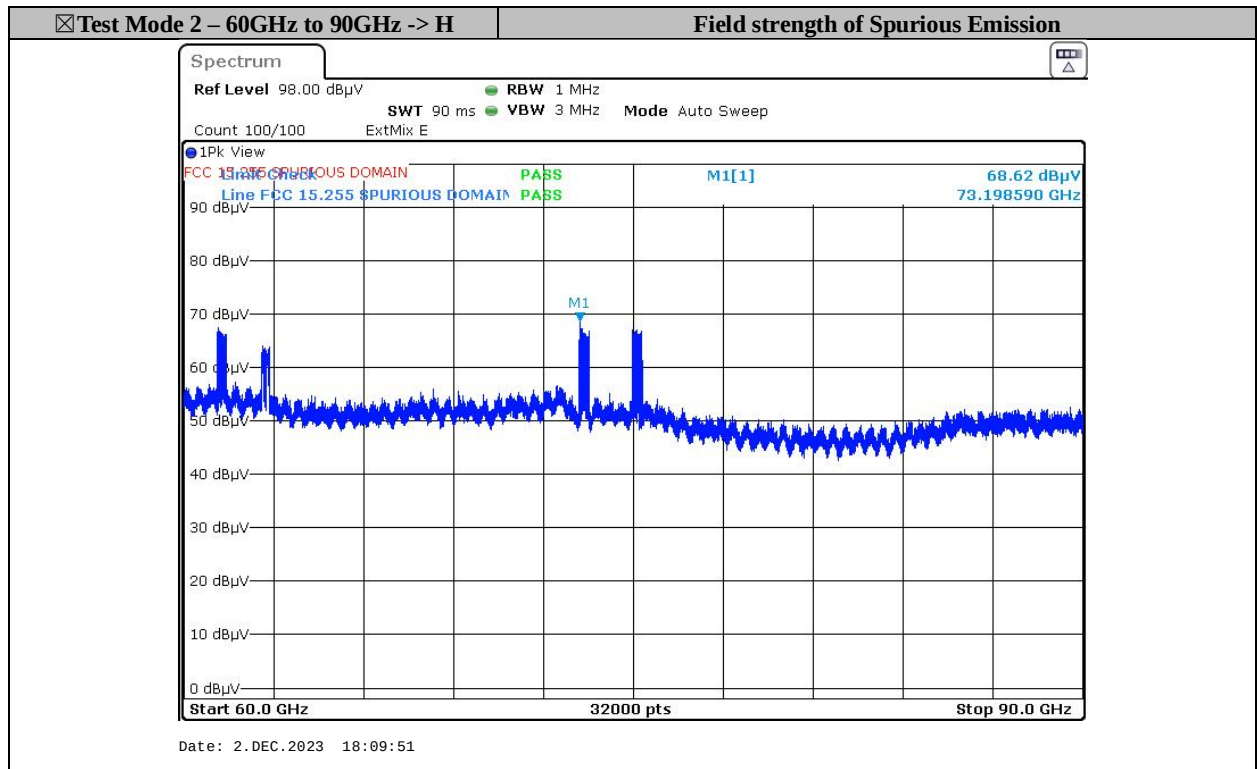


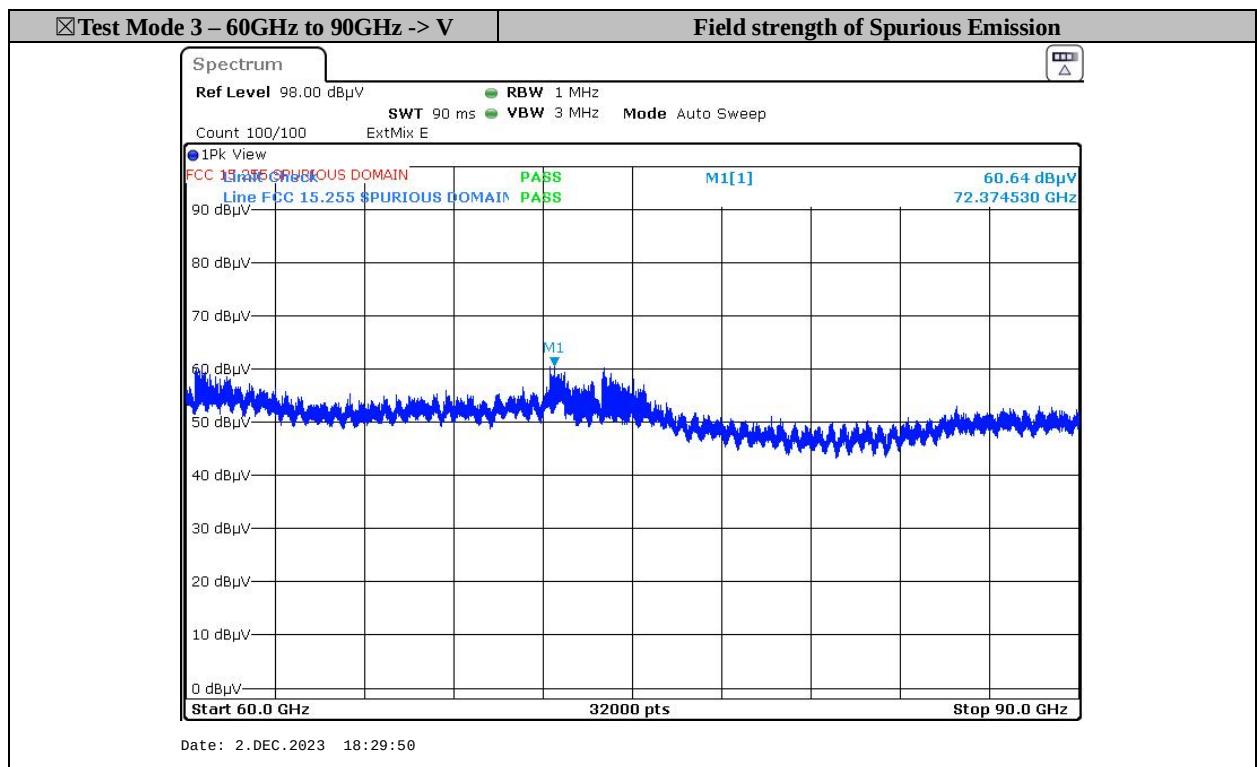
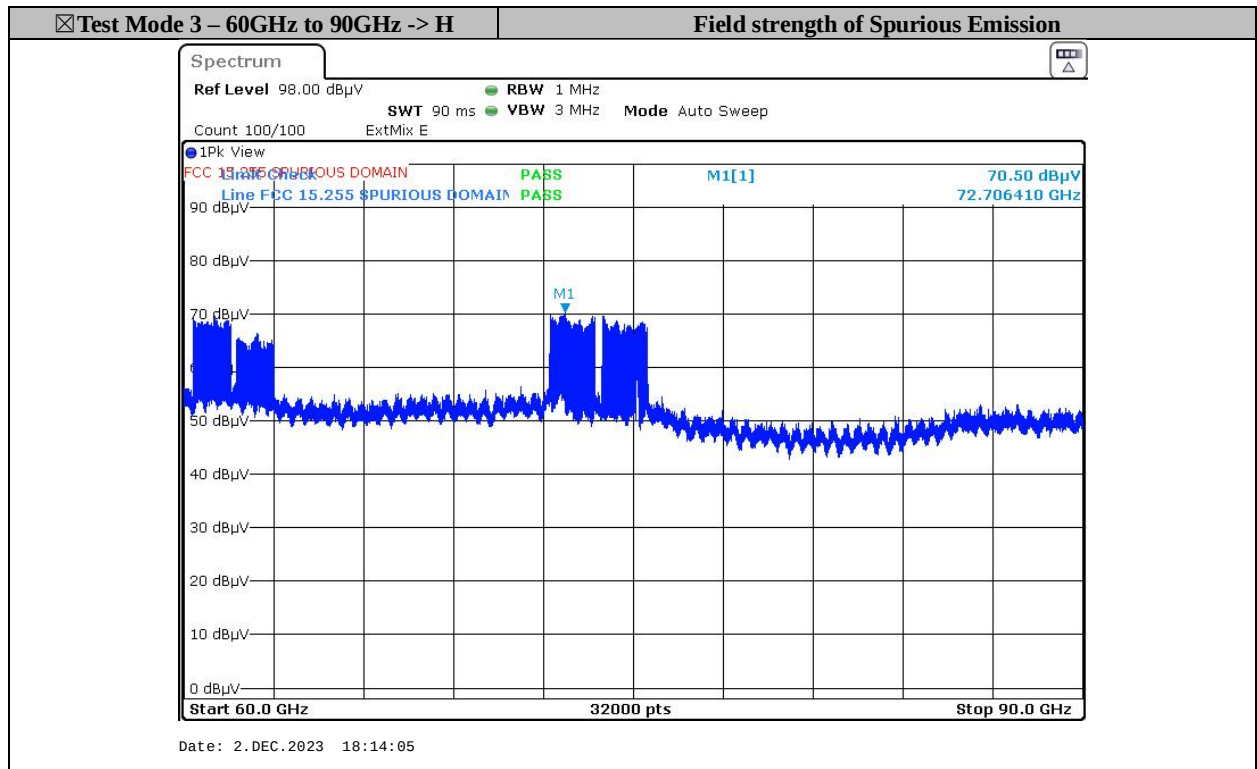


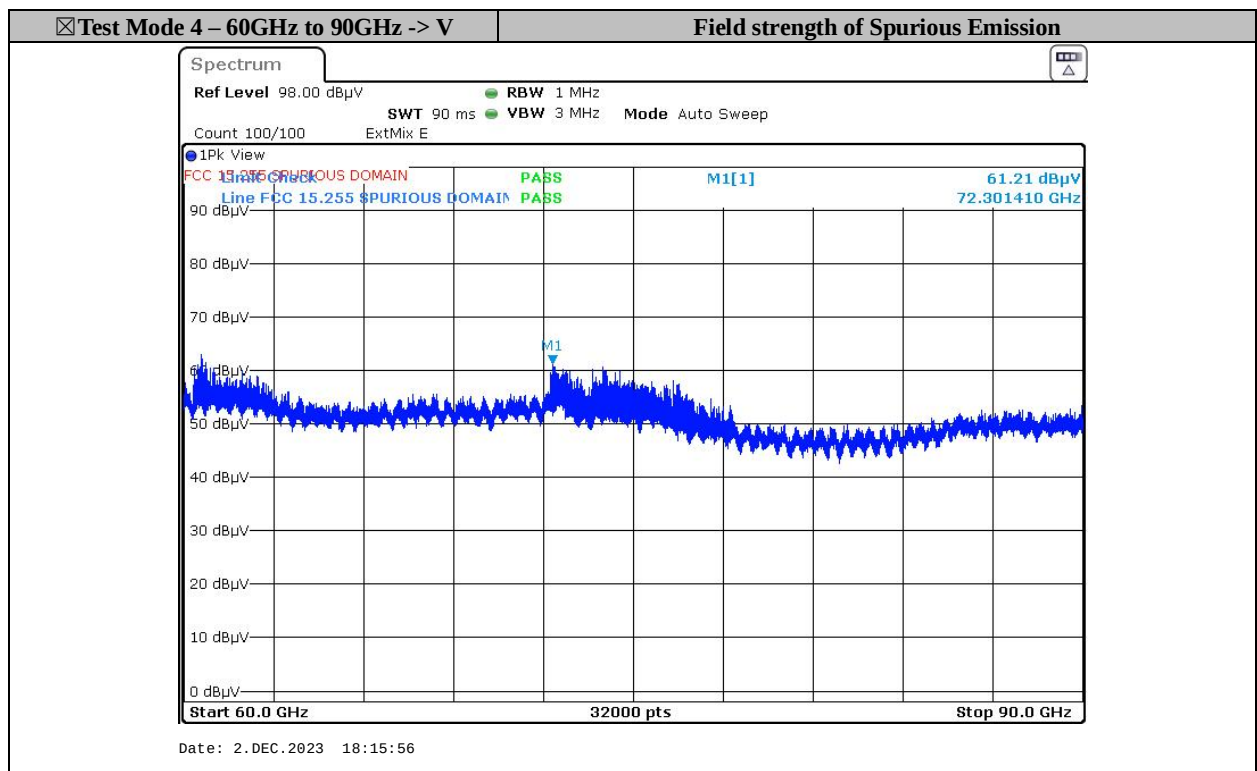
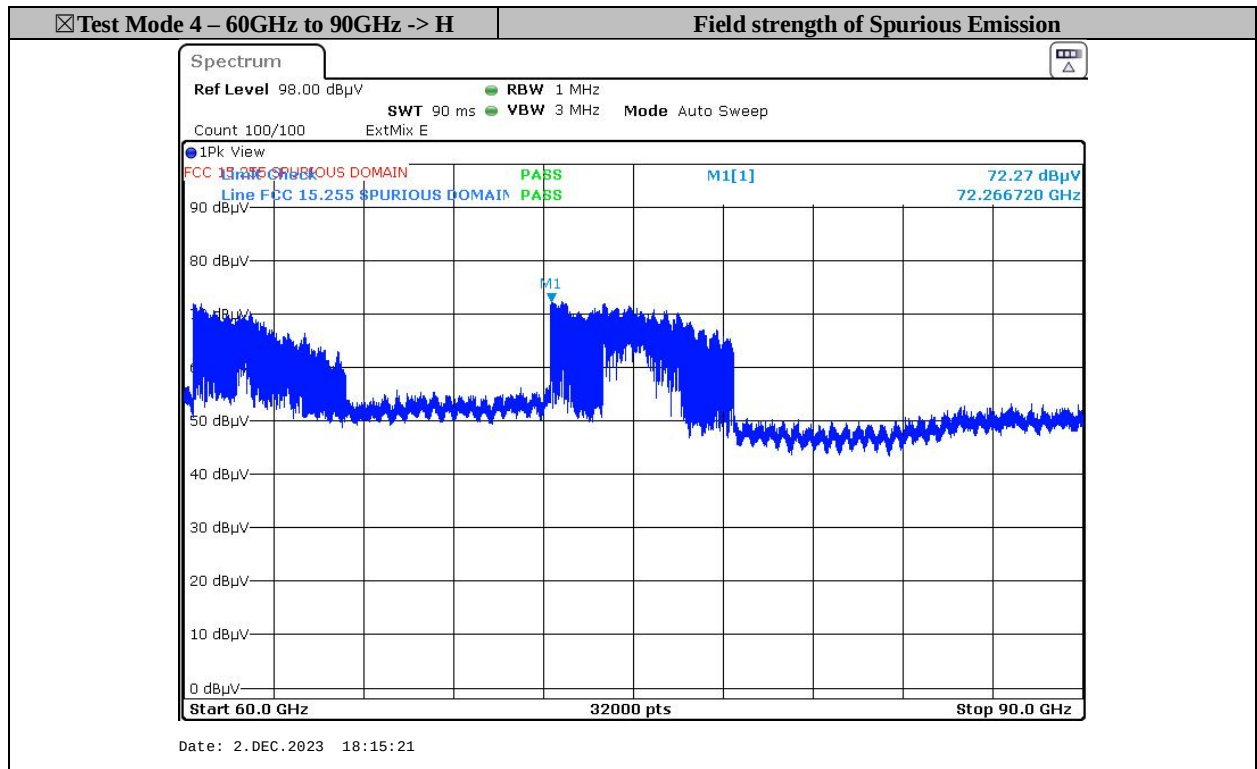


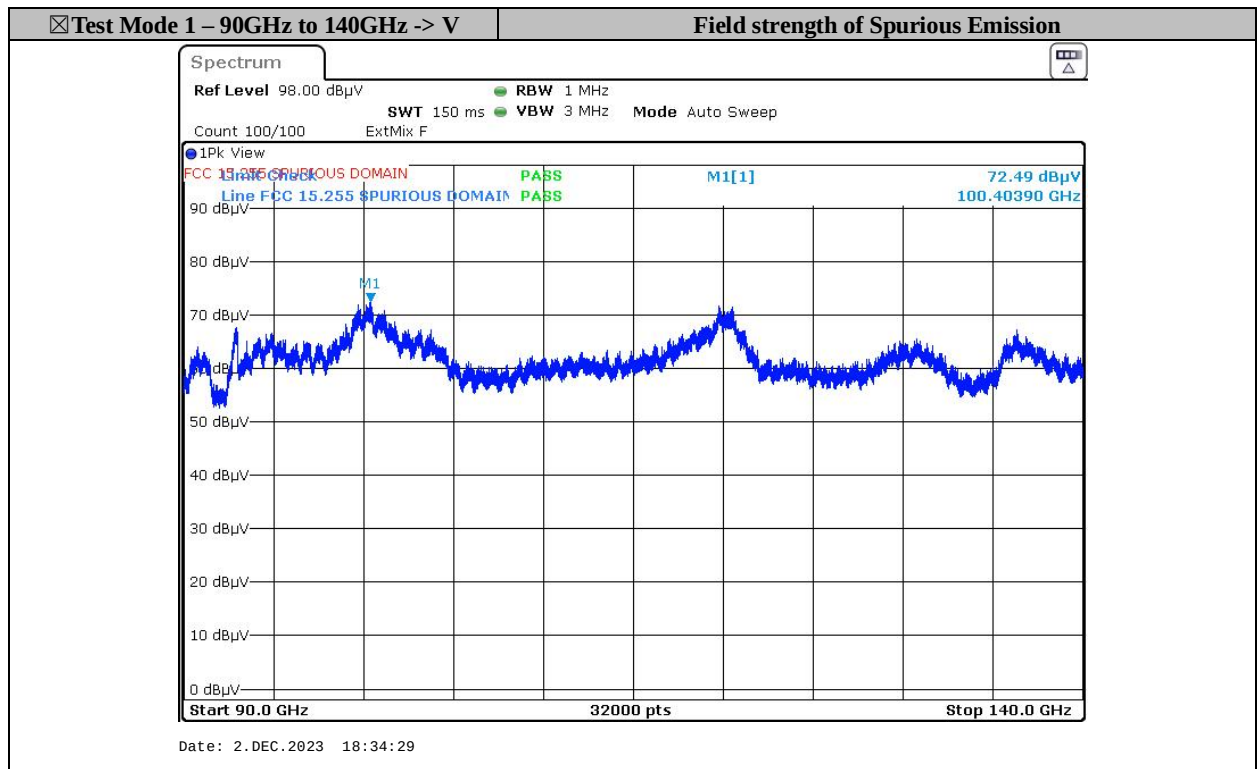
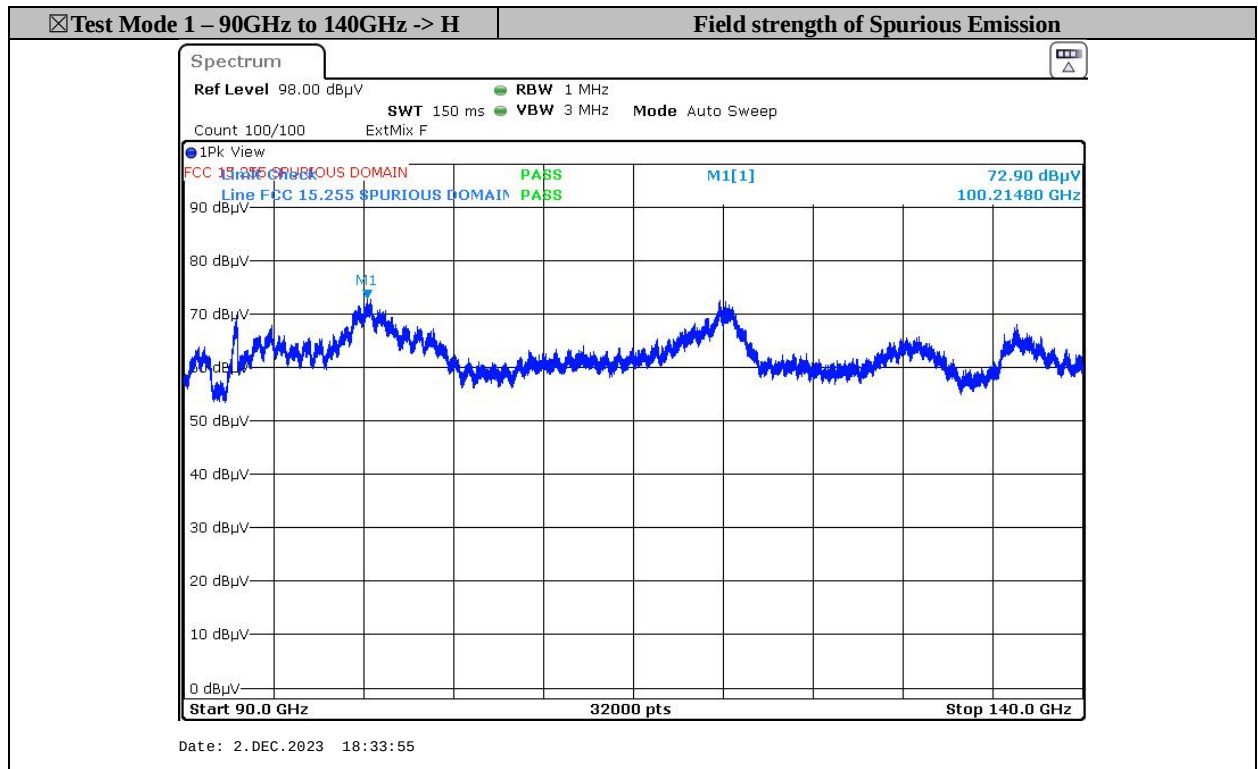


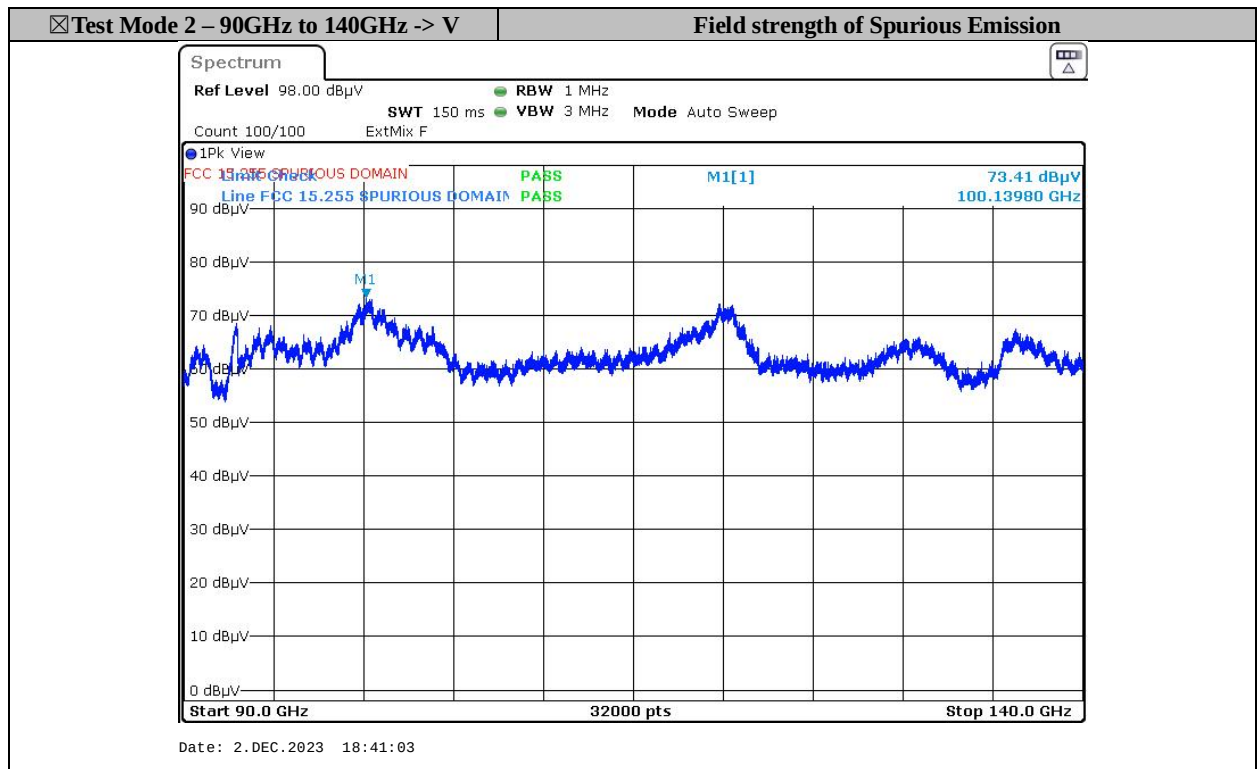
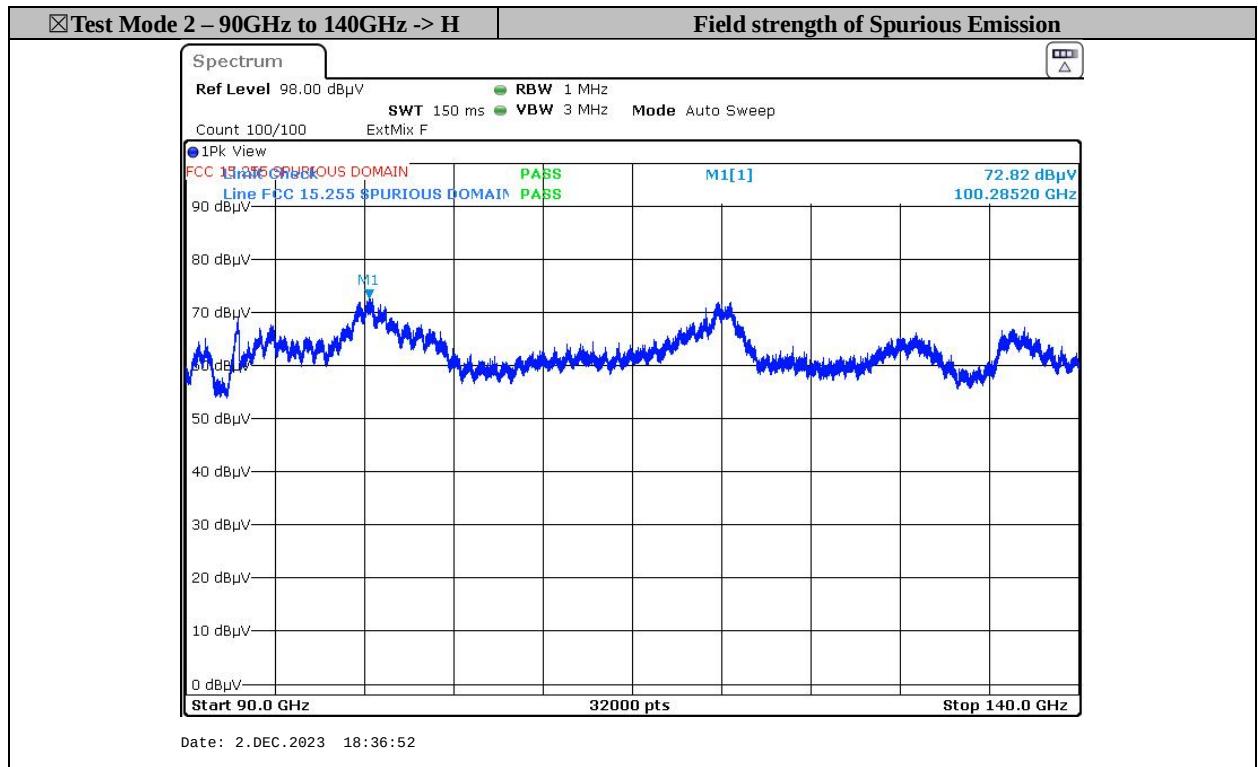


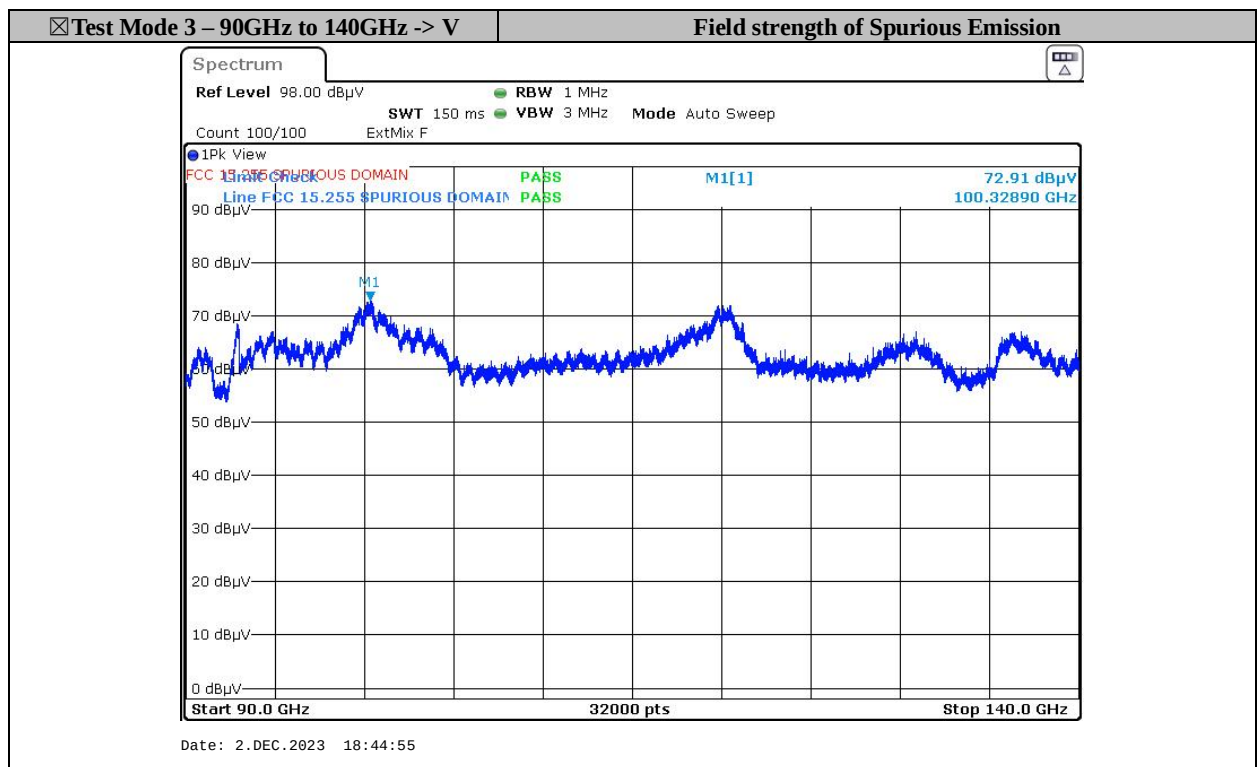
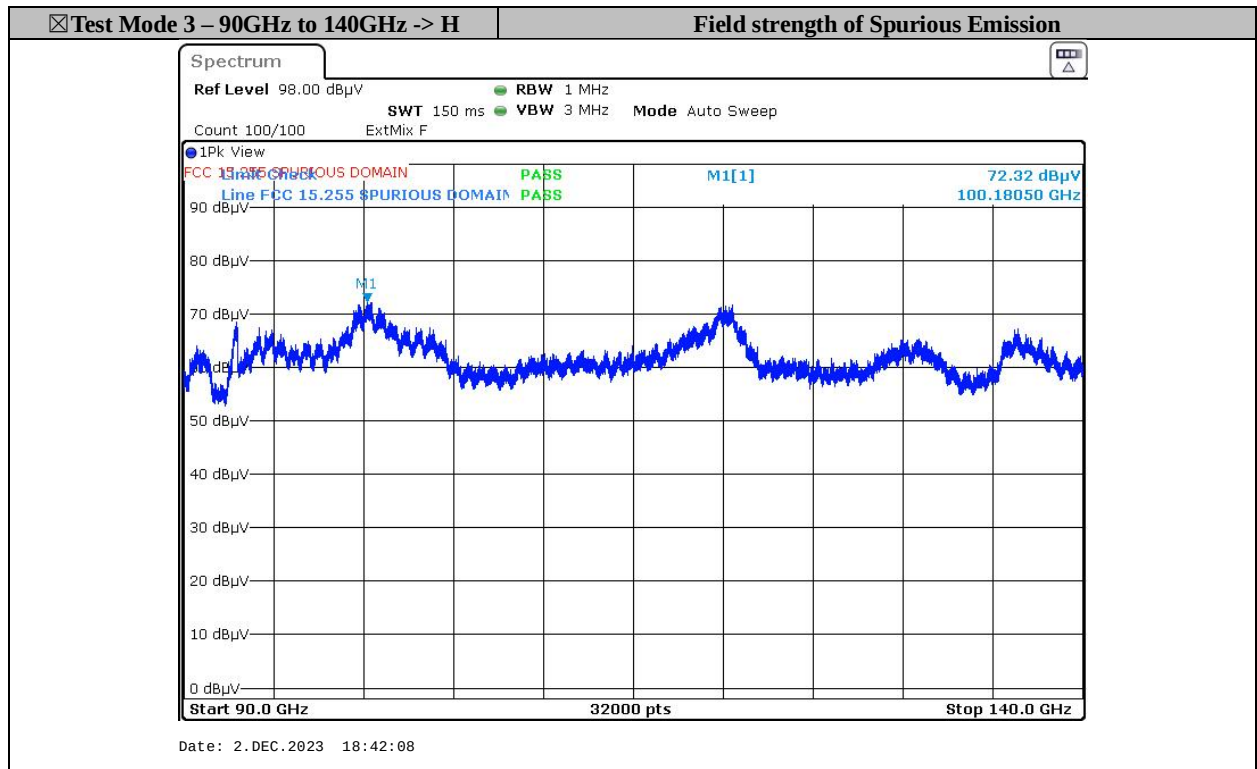


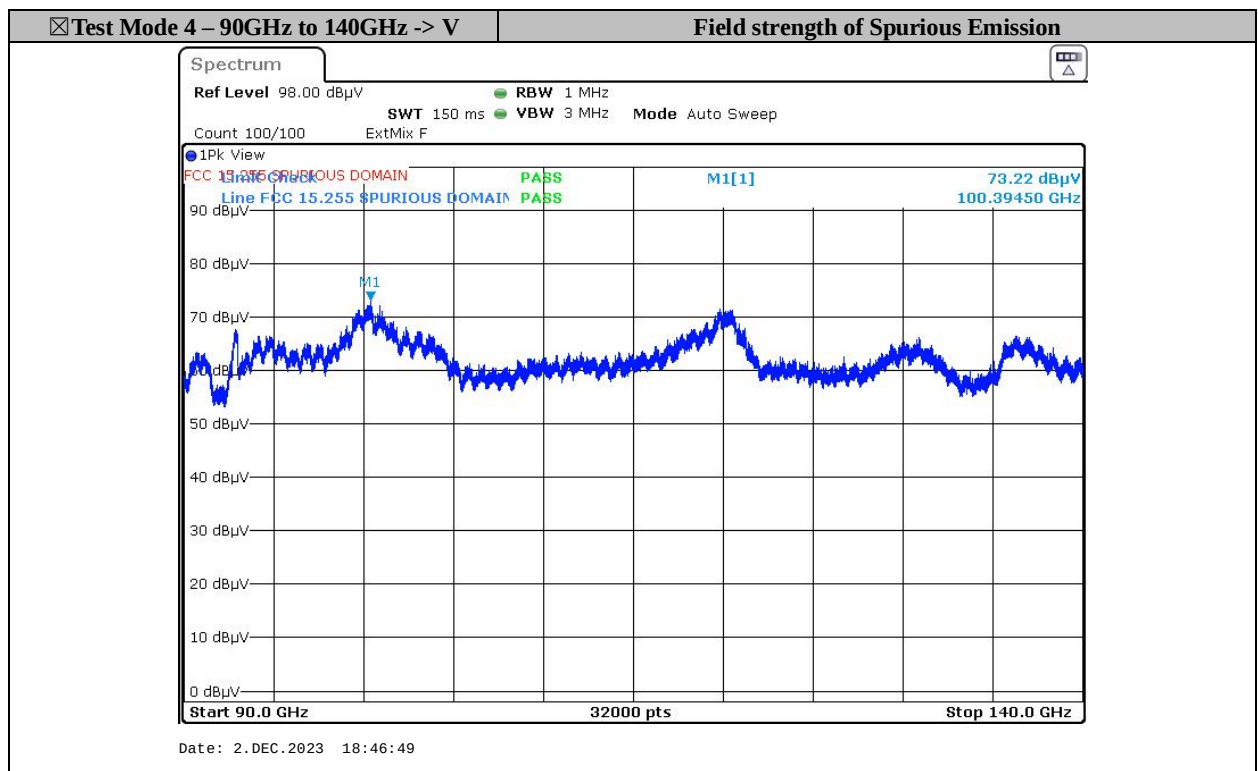
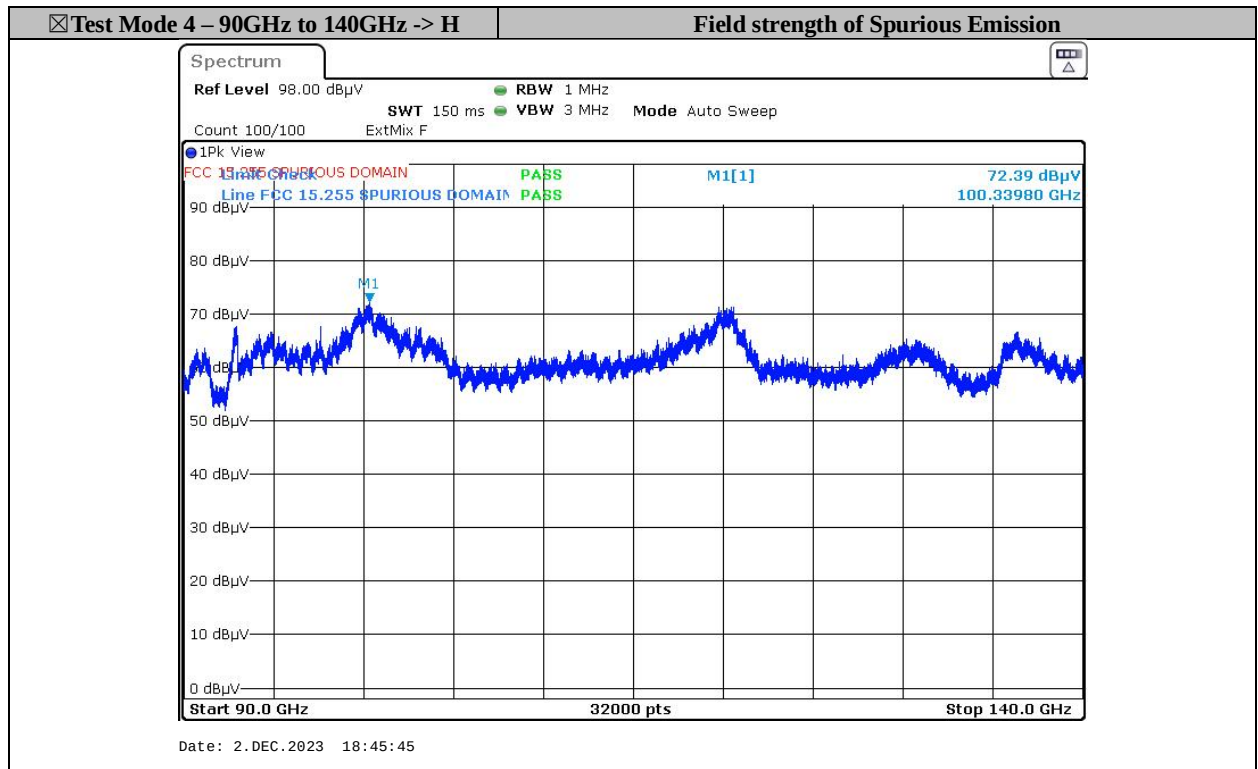


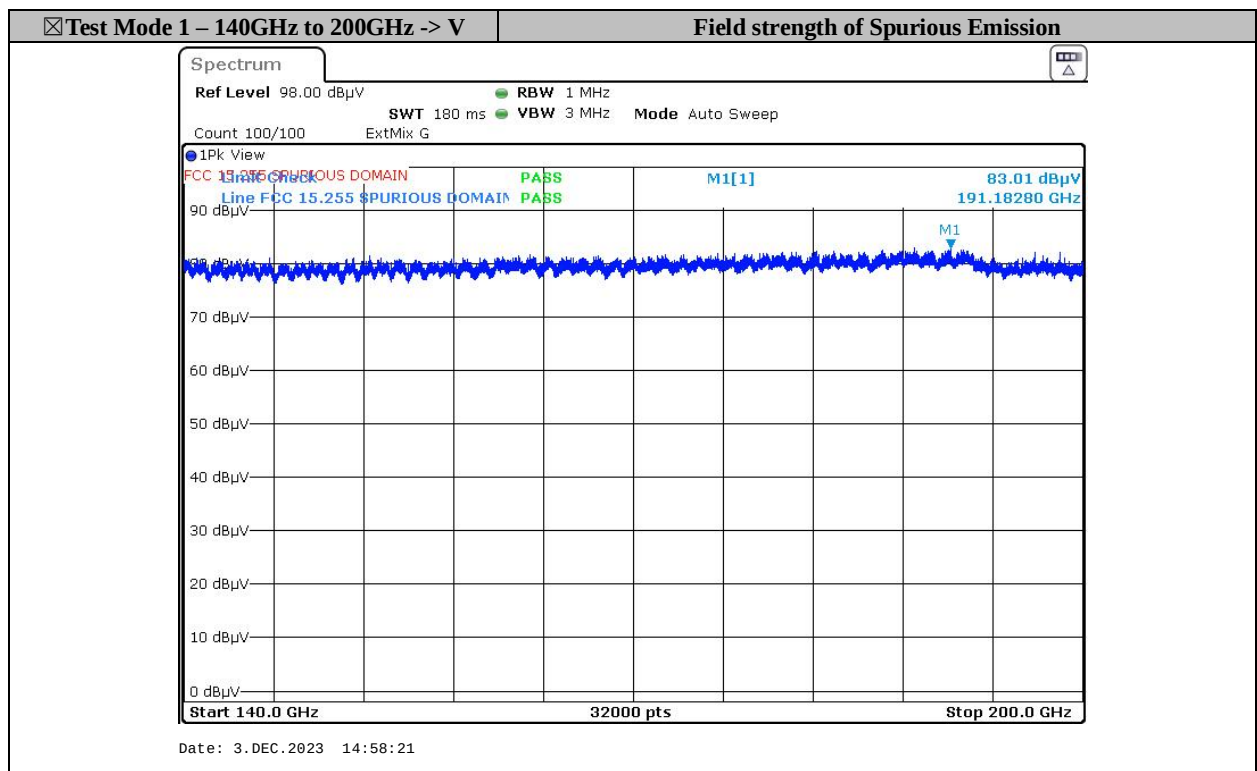
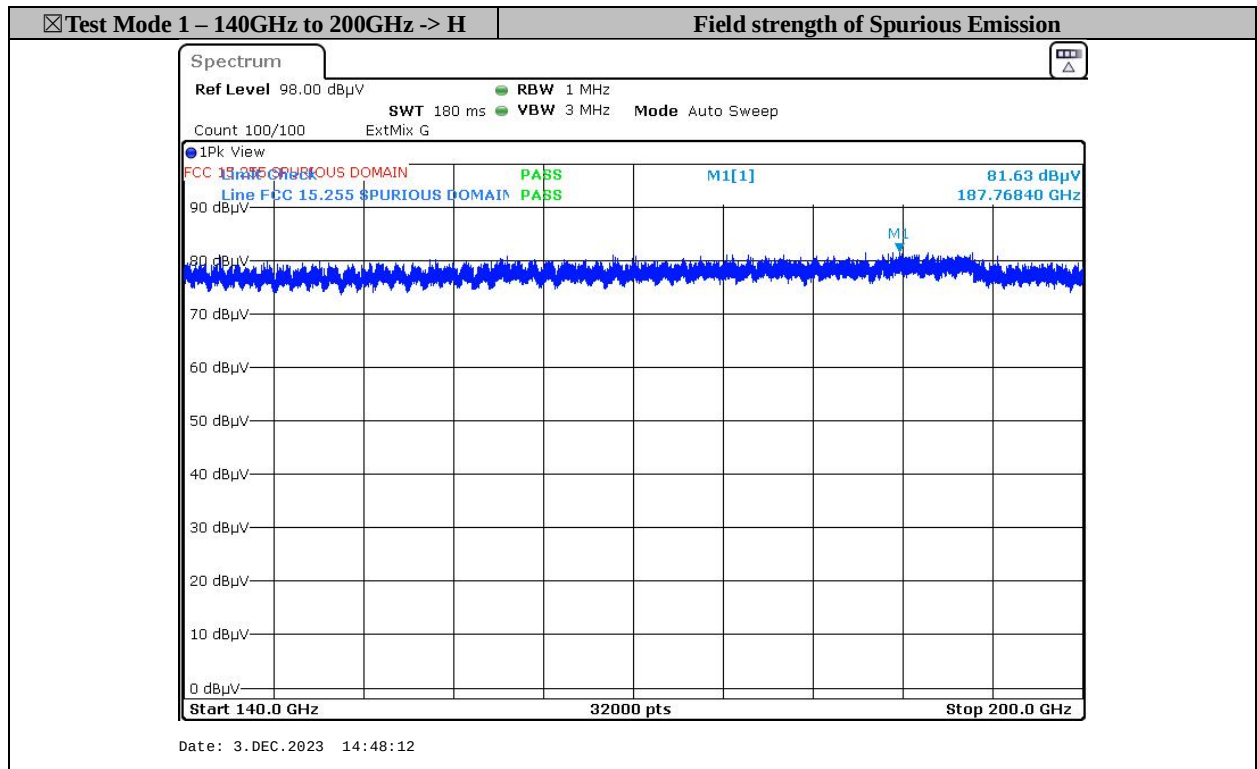


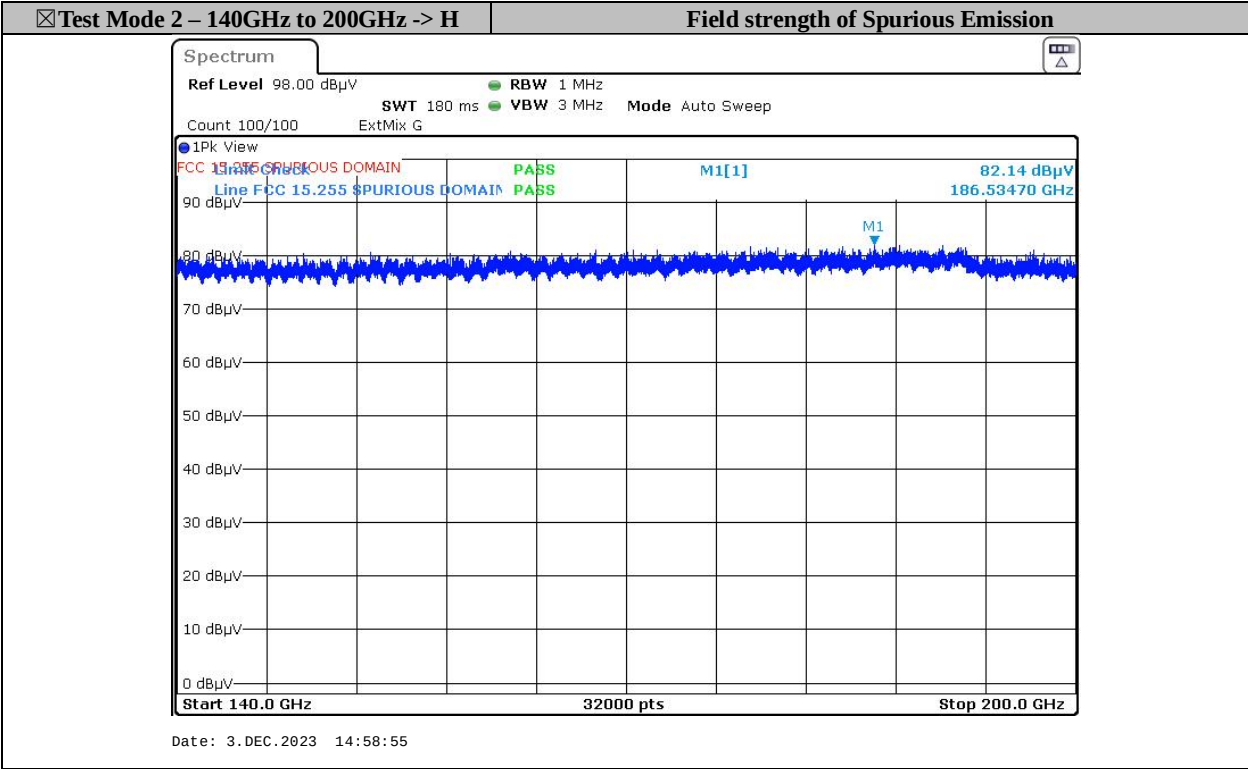




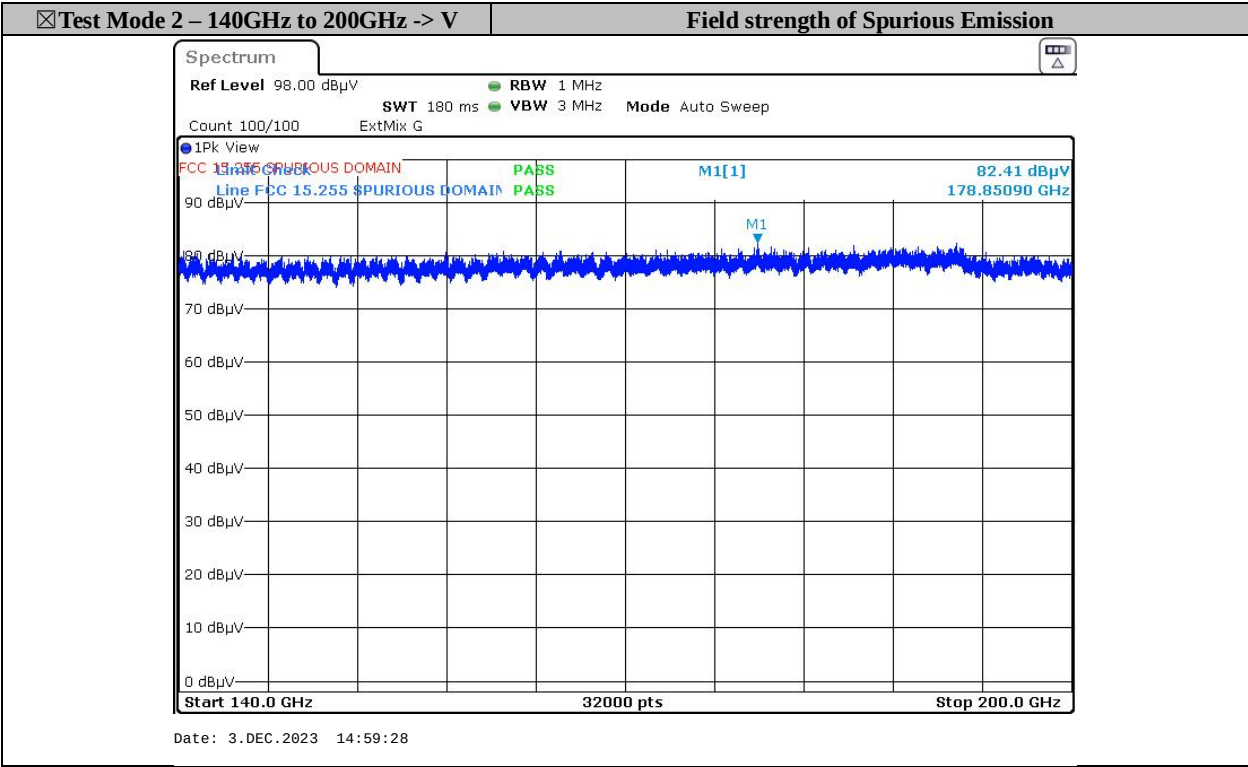




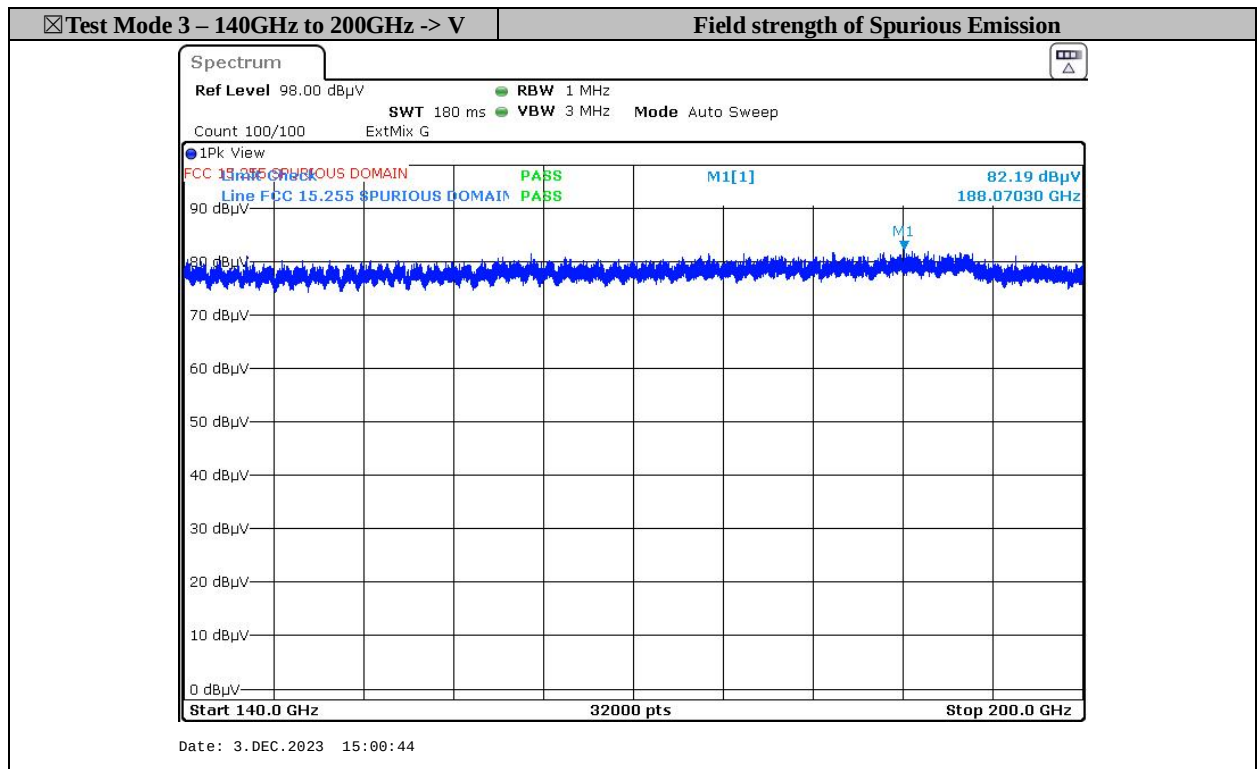
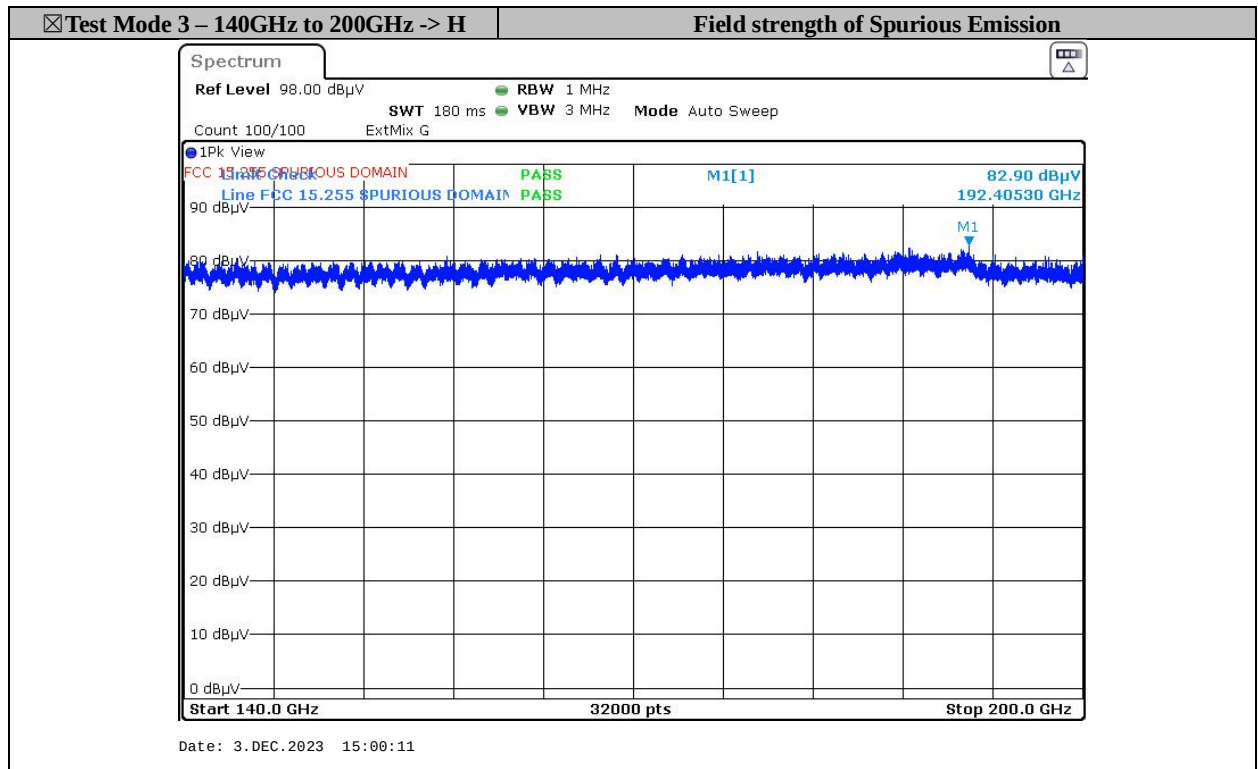


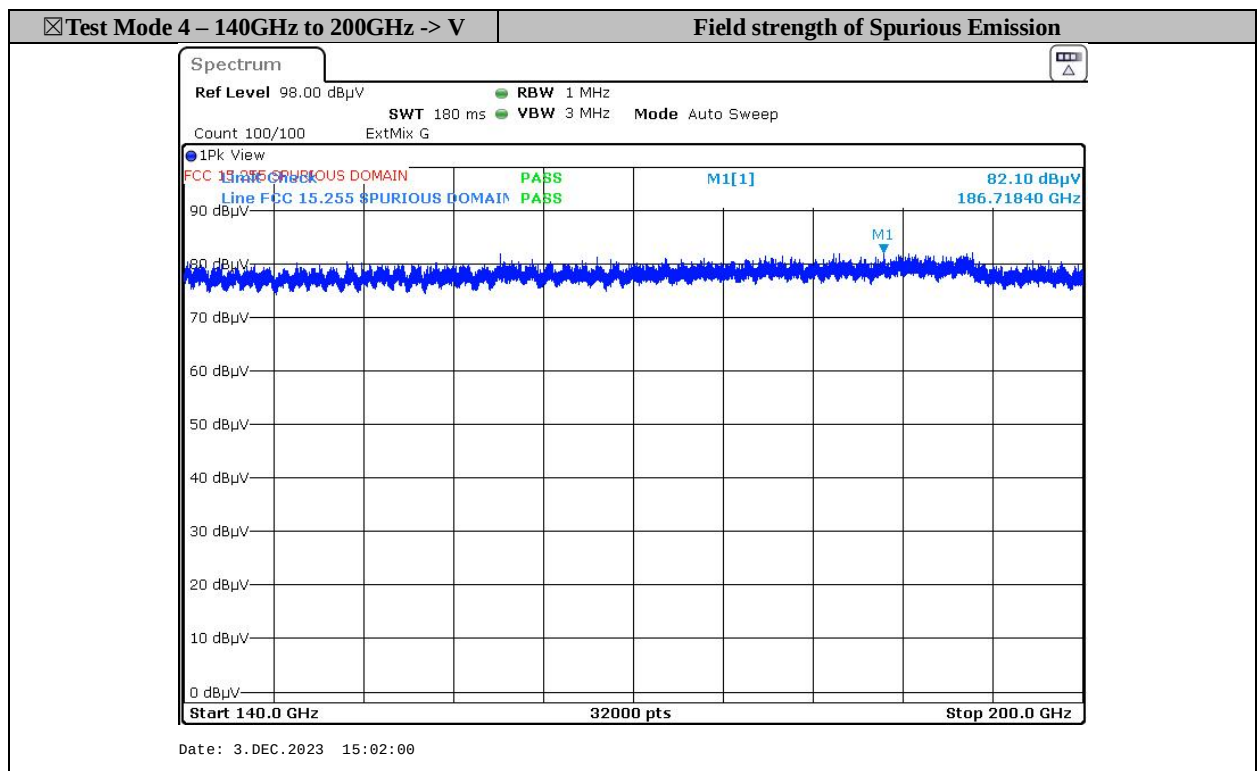
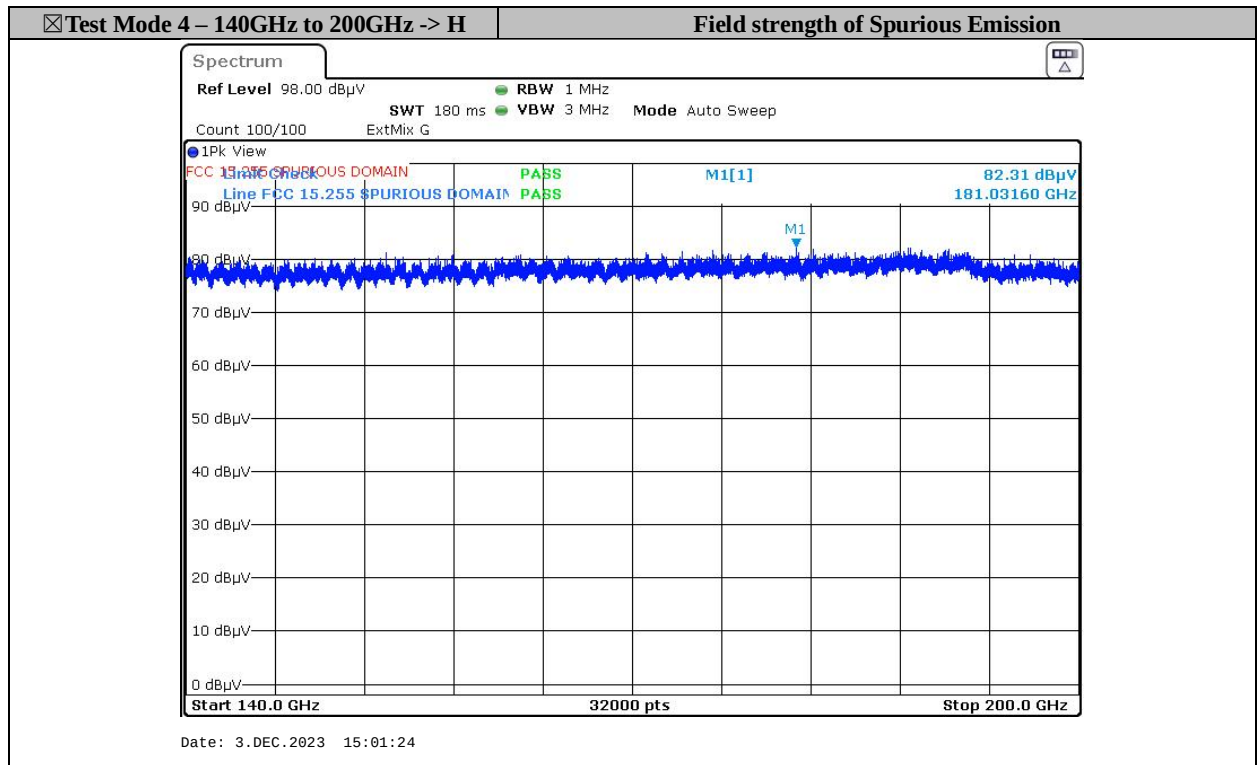


Date: 3.DEC.2023 14:58:55



Date: 3.DEC.2023 14:59:28





Thank you for choosing

