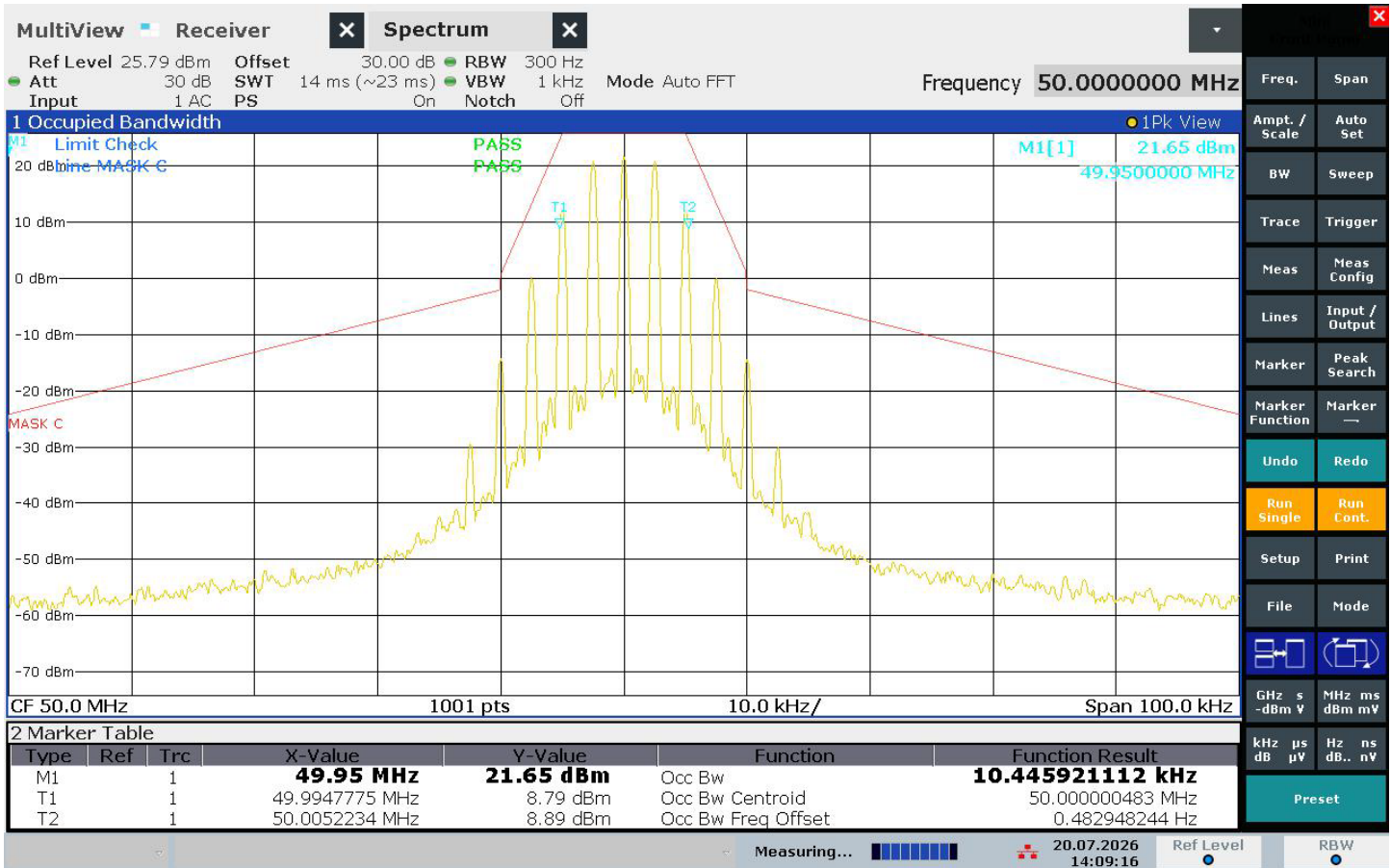
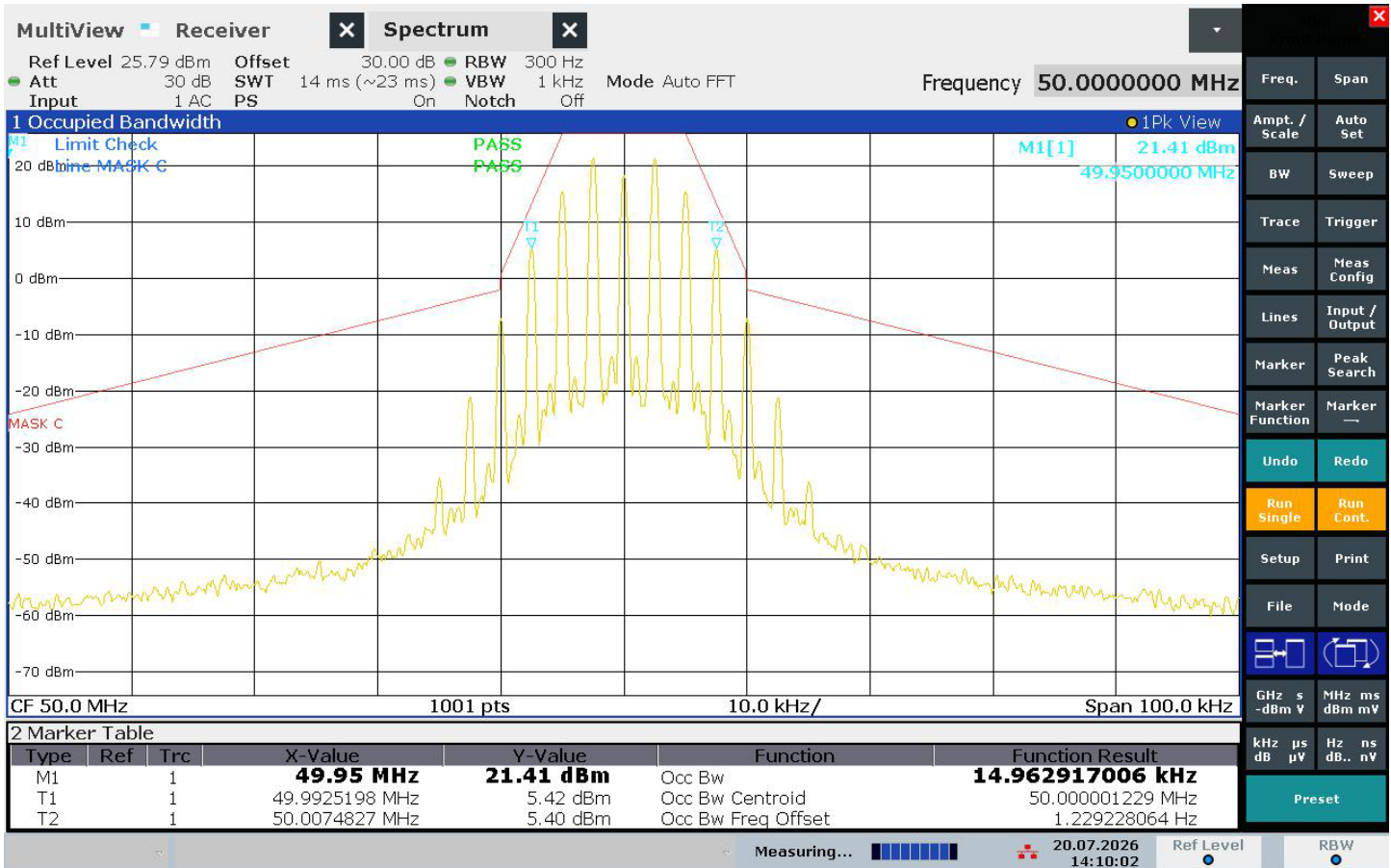


8.4.12 Emission Mask, 20 kHz FM, 50 MHz



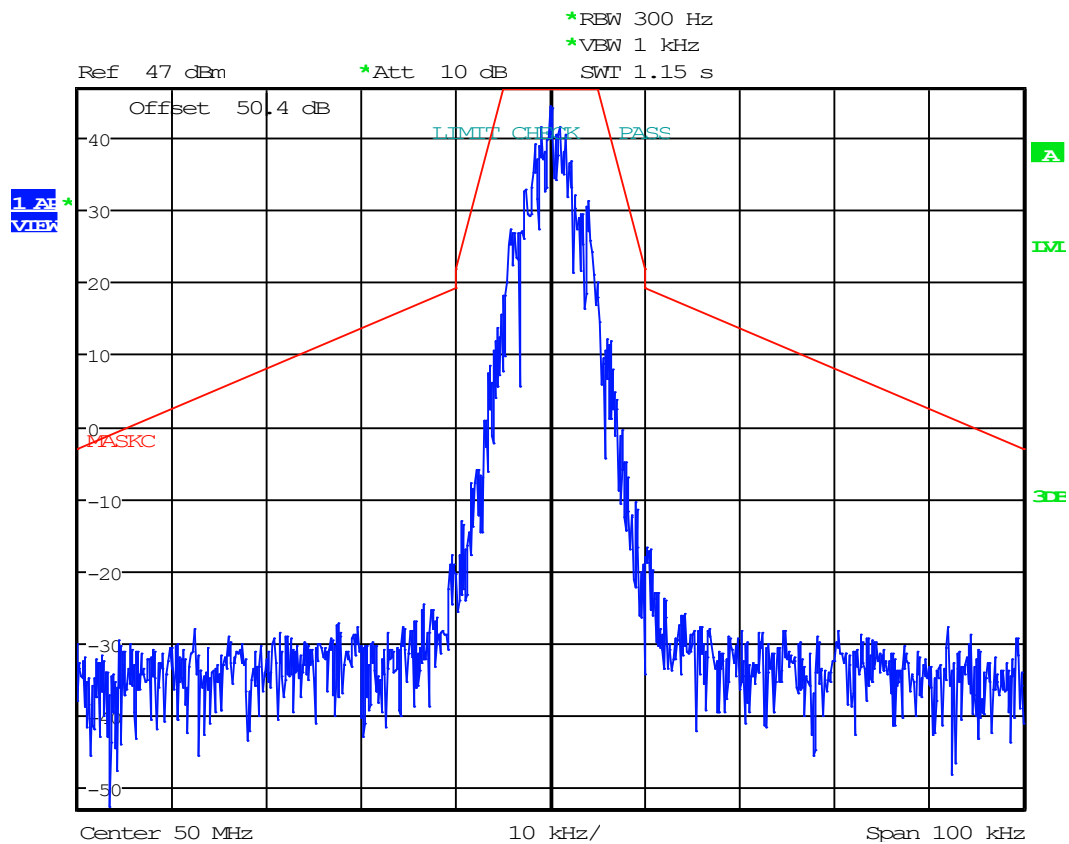
14:09:17 20.07.2026

8.4.13 Emission Mask, 25 kHz FM, 50 MHz



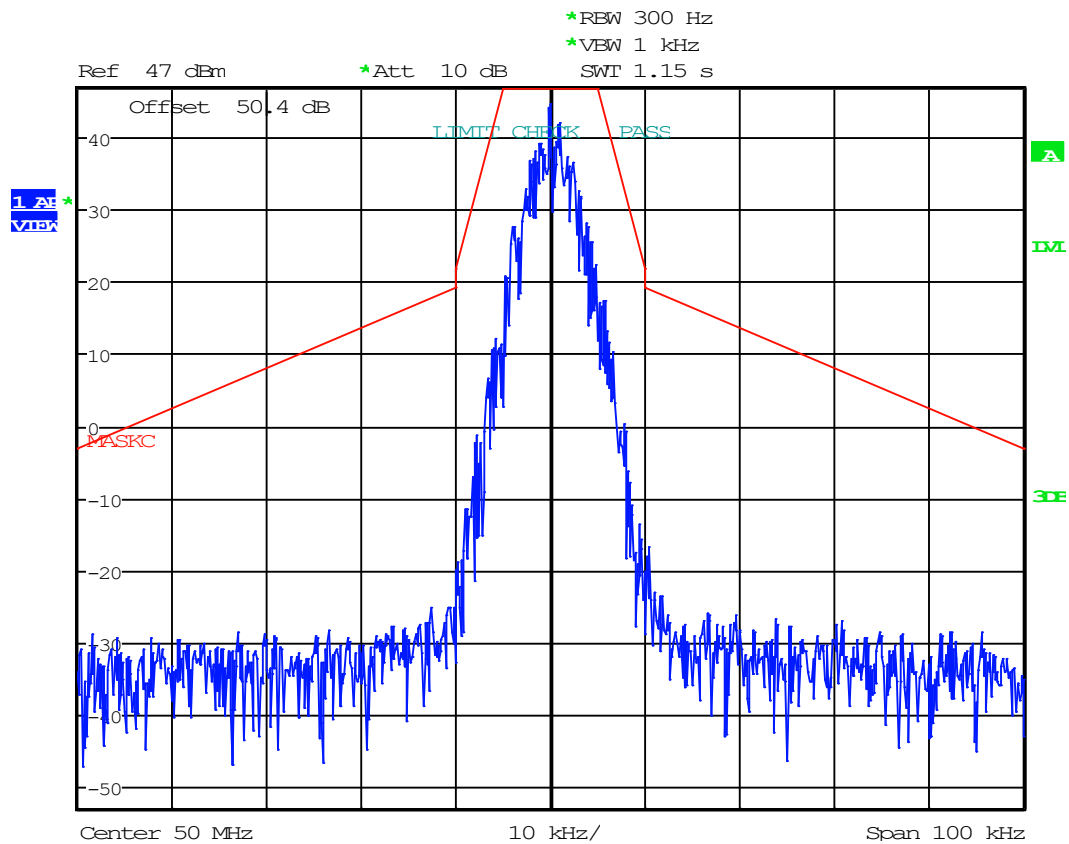
14:10:02 20.07.2026

8.4.14 Emission Mask, C4FM, F1D 50 MHz



Date: 19.MAY.2026 11:13:08

8.4.15 Emission Mask, C4FM, F3E 50 MHz

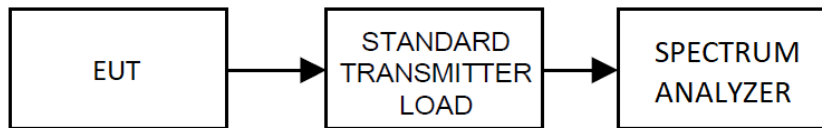


Date: 19.MAY.2026 11:12:35

8.5 Emission Limitations, Out-of-Band

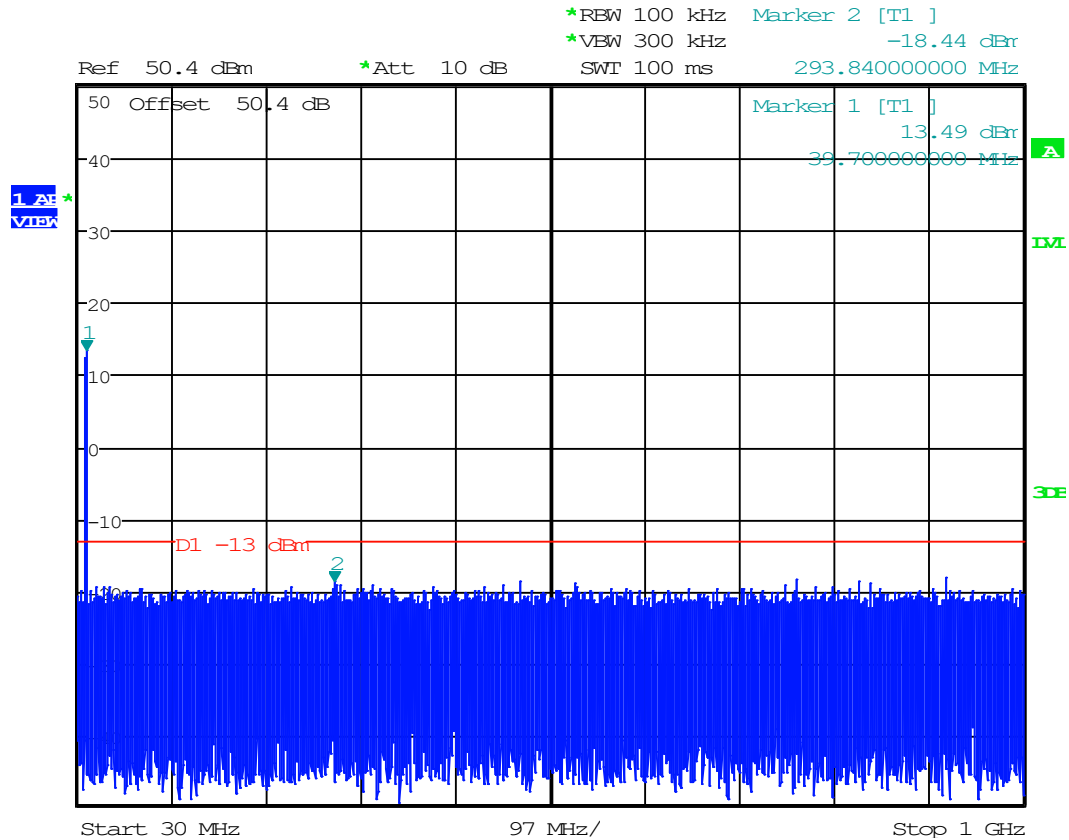
Limits from FCC Parts 2.1051, and 90.210; and test procedure from ANSI C63.26-2015.

Conducted Test Setup



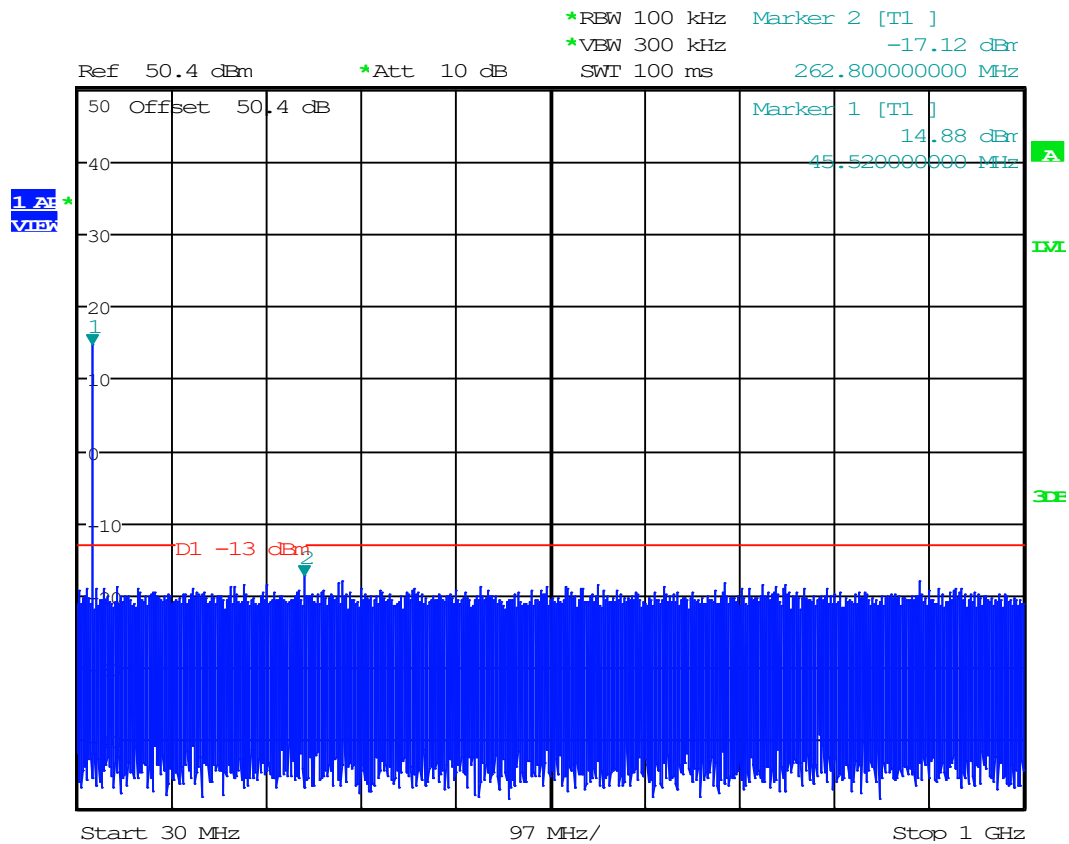
Conducted Emissions Spectrum Plots

8.5.1 Conducted Emissions, Below 1GHz, 39 MHz



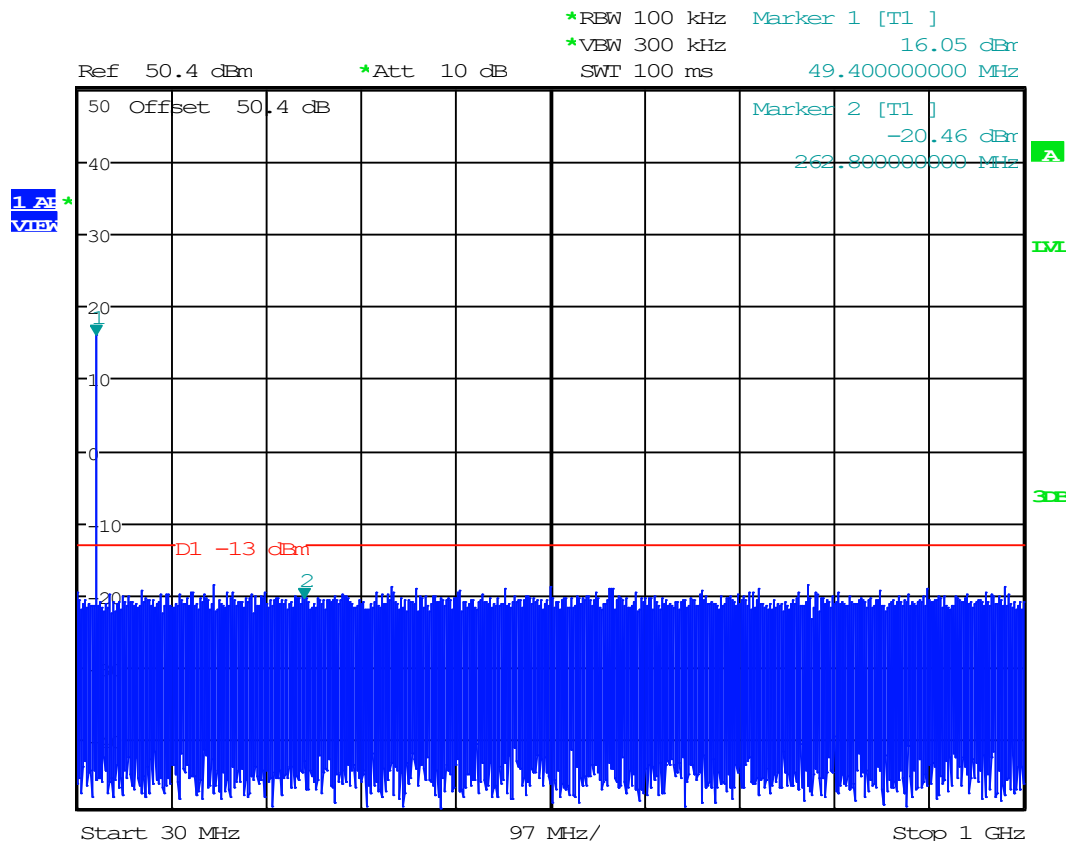
Date: 19.MAY.2026 10:41:22

8.5.2 Conducted Emissions Below 1GHz, 45 MHz



Date: 19.MAY.2026 10:47:48

8.5.3 Conducted Emissions Below 1GHz, 50 MHz

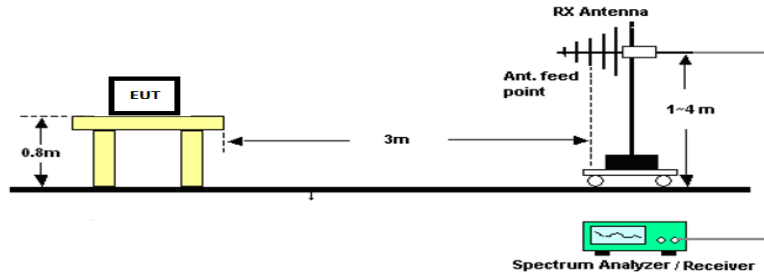


Date: 19.MAY.2026 10:49:36

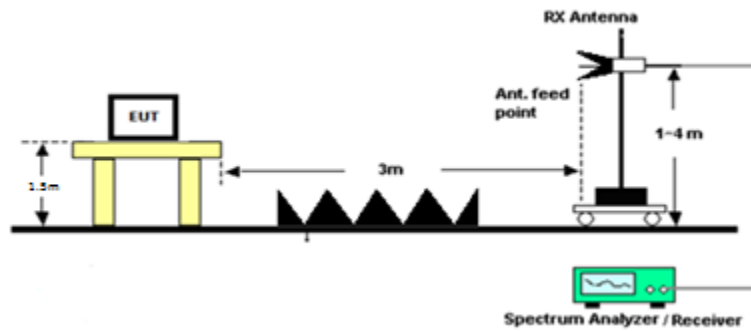
8.6 Radiated Emissions

Limits from FCC Parts 2.1053 and 90.210 (n); and test procedure from ANSI C63.26-2015.

Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



Radiated Emissions, Tabular Data

8.6.1 Radiated Emissions, 39 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
39.00	78.00	PK	44.80	H	-1.06	8.71	3.00	52.45	-44.93	-13.00	31.93
39.00	78.00	PK	42.30	V	-1.06	8.71	3.00	49.95	-47.43	-13.00	34.43
39.00	117.00	PK	30.90	H	-1.24	10.14	3.00	39.80	-57.58	-13.00	44.58
39.00	117.00	PK	32.60	V	-1.24	10.14	3.00	41.50	-55.88	-13.00	42.88
39.00	156.00	PK	29.90	H	-1.43	16.80	3.00	45.27	-52.11	-13.00	39.11
39.00	156.00	PK	26.80	V	-1.43	16.80	3.00	42.17	-55.21	-13.00	42.21
39.00	195.00	PK	26.40	H	-1.61	14.87	3.00	39.66	-57.72	-13.00	44.72
39.00	195.00	PK	21.30	V	-1.61	14.87	3.00	34.56	-62.82	-13.00	49.82
39.00	234.00	PK	20.50	H	-1.75	12.16	3.00	30.91	-66.47	-13.00	53.47
39.00	234.00	PK	19.00	V	-1.75	12.16	3.00	29.41	-67.97	-13.00	54.97
39.00	273.00	PK	16.00	H	-2.06	13.23	3.00	27.17	-70.21	-13.00	57.21
39.00	273.00	PK	12.50	V	-2.06	13.23	3.00	23.67	-73.71	-13.00	60.71
39.00	312.00	PK	12.80	H	-2.08	15.19	3.00	25.90	-71.47	-13.00	58.47
39.00	312.00	PK	11.50	V	-2.08	15.19	3.00	24.60	-72.77	-13.00	59.77
39.00	351.00	PK	13.30	H	-2.12	14.78	3.00	25.96	-71.41	-13.00	58.41
39.00	351.00	PK	13.90	V	-2.12	14.78	3.00	26.56	-70.81	-13.00	57.81
39.00	390.00	PK	20.60	H	-2.26	15.52	3.00	33.86	-63.51	-13.00	50.51
39.00	390.00	PK	25.60	V	-2.26	15.52	3.00	38.86	-58.51	-13.00	45.51

8.6.2 Radiated Emissions, 45 MHz

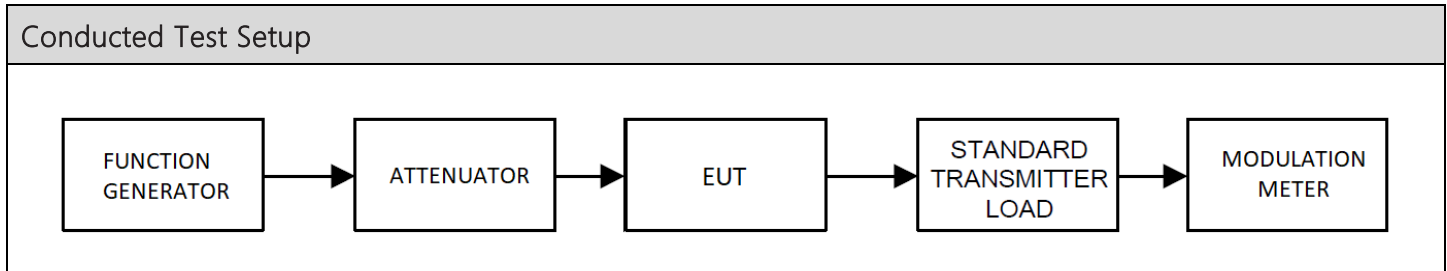
Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
45.00	90.00	PK	15.10	H	-1.14	10.82	3.00	24.78	-72.59	-13.00	59.59
45.00	90.00	PK	15.20	V	-1.14	10.82	3.00	24.88	-72.49	-13.00	59.49
45.00	135.00	PK	24.60	H	-1.32	13.60	3.00	36.88	-60.49	-13.00	47.49
45.00	135.00	PK	18.70	V	-1.32	13.60	3.00	30.98	-66.39	-13.00	53.39
45.00	180.00	PK	15.40	H	-1.56	12.82	3.00	26.66	-70.71	-13.00	57.71
45.00	180.00	PK	14.60	V	-1.56	12.82	3.00	25.86	-71.51	-13.00	58.51
45.00	225.00	PK	18.70	H	-1.72	11.96	3.00	28.94	-68.44	-13.00	55.44
45.00	225.00	PK	13.00	V	-1.72	11.96	3.00	23.24	-74.14	-13.00	61.14
45.00	270.00	PK	11.60	H	-2.07	13.18	3.00	22.71	-74.67	-13.00	61.67
45.00	270.00	PK	12.00	V	-2.07	13.18	3.00	23.11	-74.27	-13.00	61.27
45.00	315.00	PK	12.30	H	-2.09	14.96	3.00	25.17	-72.21	-13.00	59.21
45.00	315.00	PK	11.50	V	-2.09	14.96	3.00	24.37	-73.01	-13.00	60.01
45.00	360.00	PK	12.30	H	-2.16	14.84	3.00	24.98	-72.40	-13.00	59.40
45.00	360.00	PK	12.20	V	-2.16	14.84	3.00	24.88	-72.50	-13.00	59.50
45.00	405.00	PK	12.70	H	-2.30	15.85	3.00	26.25	-71.13	-13.00	58.13
45.00	405.00	PK	12.90	V	-2.30	15.85	3.00	26.45	-70.93	-13.00	57.93
45.00	450.00	PK	13.00	H	-2.46	16.65	3.00	27.19	-70.19	-13.00	57.19
45.00	450.00	PK	13.00	V	-2.46	16.65	3.00	27.19	-70.19	-13.00	57.19

8.6.3 Radiated Emissions, 50 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
50.00	100.00	PK	36.20	H	-1.16	11.08	3.00	46.12	-51.26	-13.00	38.26
50.00	100.00	PK	35.40	V	-1.16	11.08	3.00	45.32	-52.06	-13.00	39.06
50.00	150.00	PK	33.30	H	-1.40	16.35	3.00	48.25	-49.13	-13.00	36.13
50.00	150.00	PK	21.30	V	-1.40	16.35	3.00	36.25	-61.13	-13.00	48.13
50.00	200.00	PK	27.30	H	-1.62	11.64	3.00	37.32	-60.06	-13.00	47.06
50.00	200.00	PK	23.90	V	-1.62	11.64	3.00	33.92	-63.46	-13.00	50.46
50.00	250.00	PK	25.70	H	-1.89	12.76	3.00	36.57	-60.80	-13.00	47.80
50.00	250.00	PK	21.10	V	-1.89	12.76	3.00	31.97	-65.40	-13.00	52.40
50.00	300.00	PK	19.90	H	-2.08	14.64	3.00	32.46	-64.91	-13.00	51.91
50.00	300.00	PK	13.00	V	-2.08	14.64	3.00	25.56	-71.81	-13.00	58.81
50.00	350.00	PK	13.80	H	-2.11	14.78	3.00	26.47	-70.91	-13.00	57.91
50.00	350.00	PK	15.90	V	-2.11	14.78	3.00	28.57	-68.81	-13.00	55.81
50.00	400.00	PK	26.20	H	-2.29	15.79	3.00	39.70	-57.68	-13.00	44.68
50.00	400.00	PK	28.30	V	-2.29	15.79	3.00	41.80	-55.58	-13.00	42.58
50.00	450.00	PK	29.70	H	-2.46	16.65	3.00	43.89	-53.49	-13.00	40.49
50.00	450.00	PK	27.00	V	-2.46	16.65	3.00	41.19	-56.19	-13.00	43.19
50.00	500.00	PK	17.80	H	-2.65	17.99	3.00	33.14	-64.24	-13.00	51.24
50.00	500.00	PK	17.80	V	-2.65	17.99	3.00	33.14	-64.24	-13.00	51.24

8.7 Modulation Characteristics

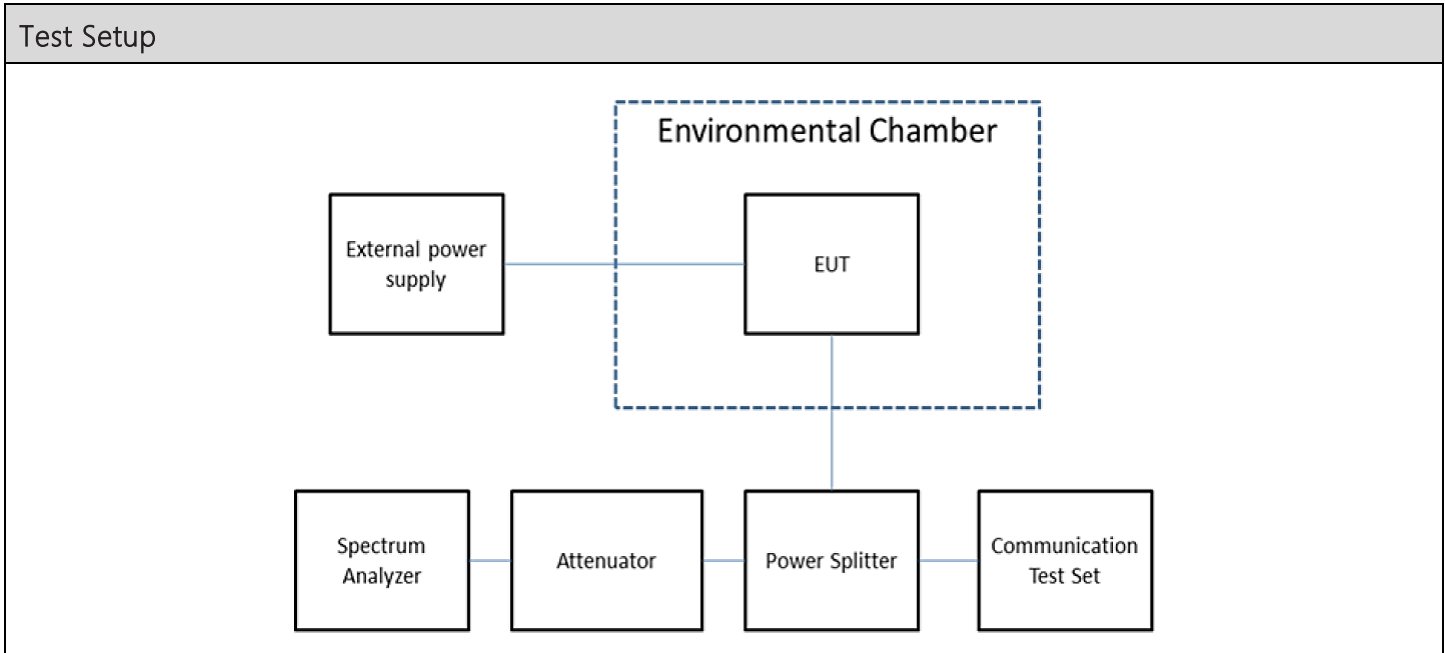
Limits from FCC Parts 2.1047 and test procedure from ANSI C63.26-2015



N/A – This device does not contain an audio filter

8.8 Frequency Stability

Limits from FCC Parts 2.1055, and 90.213; and test procedure from ANSI C63.26-2015.

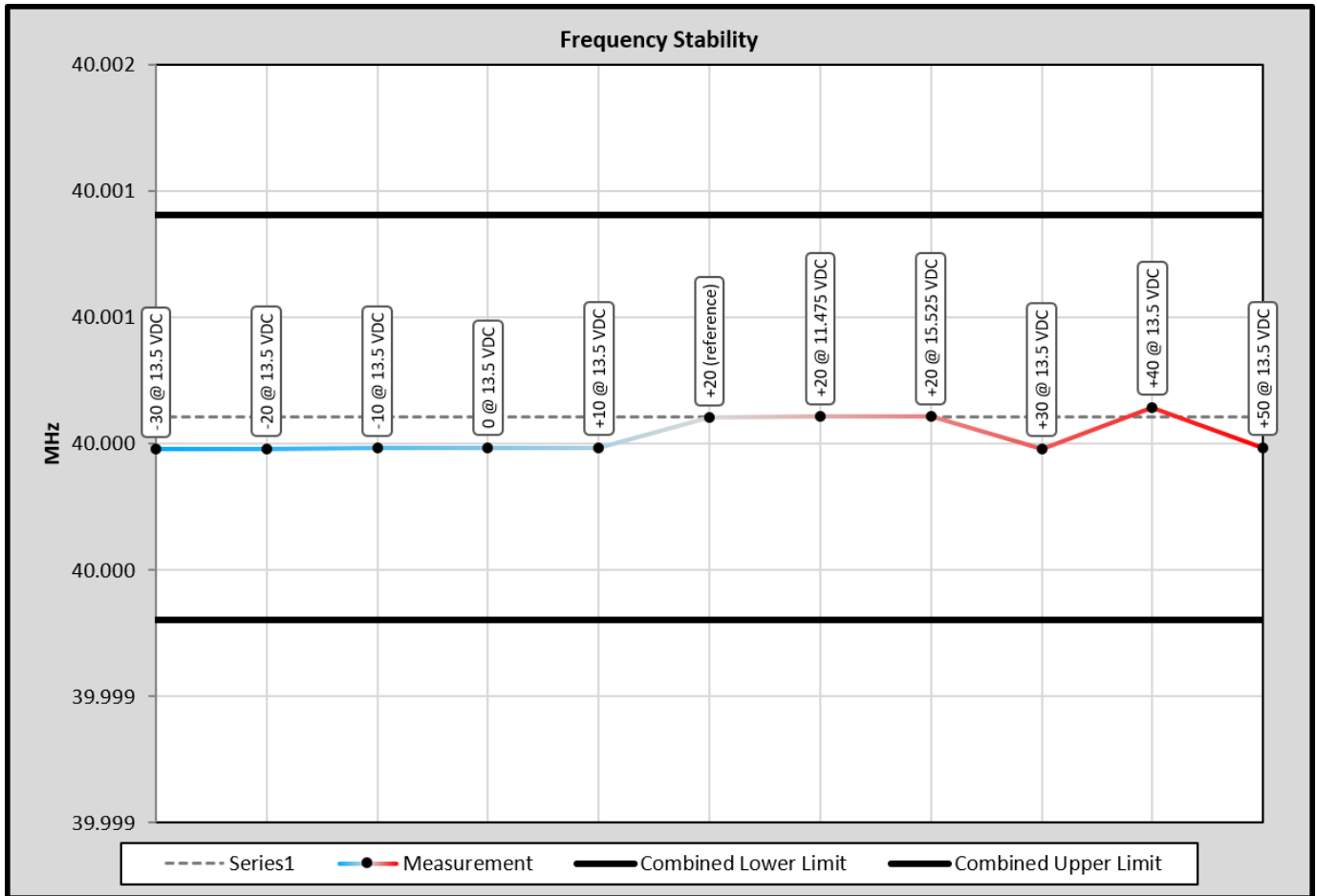


Test Results, Mode 1		
Tuned Frequency (MHz)	Max Deviation (kHz)	Limit (ppm)
40.000105	0.126	20

8.8.1 Frequency Stability Data

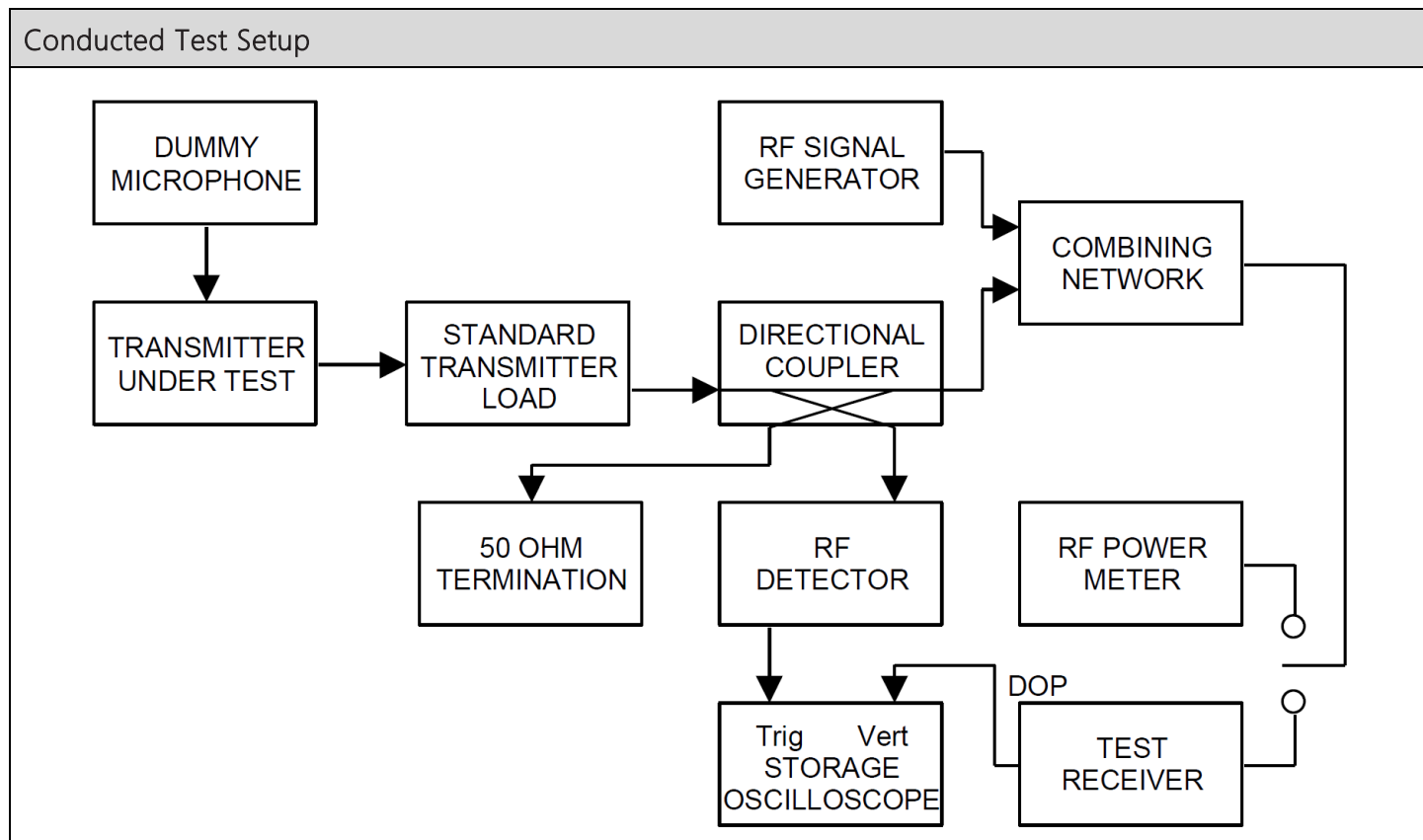
FCC Part 90 Limit	20.0	ppm	
FCC Part 90 Limit, as ppb	20000	ppb (Parts per Billion)	
FCC Part 90 Limit, as %	0.00200	%	
Strictest Combined Limit, as Hz	800.002	Hz	
Combined Lower Limit	39.999305	MHz	
Combined Upper Limit	40.000905	MHz	
Rated Supply Voltage	13.5	☐ AC ☒ DC	
Temperature / Voltage Variation			
Temperature (°C)	Supplied Voltage (V)	Frequency (MHz)	Deviation (kHz)
-30	13.5	39.999979	0.126
-20	13.5	39.999982	0.123
-10	13.5	39.999983	0.122
0	13.5	39.999985	0.120
+10	13.5	39.999985	0.120
+20 (reference)	13.5	40.000105	0.000
+20	11.5	40.000109	-0.004
+20	15.5	40.000109	-0.004
+30	13.5	39.999982	0.123
+40	13.5	40.000145	-0.040
+50	13.5	39.999985	0.120

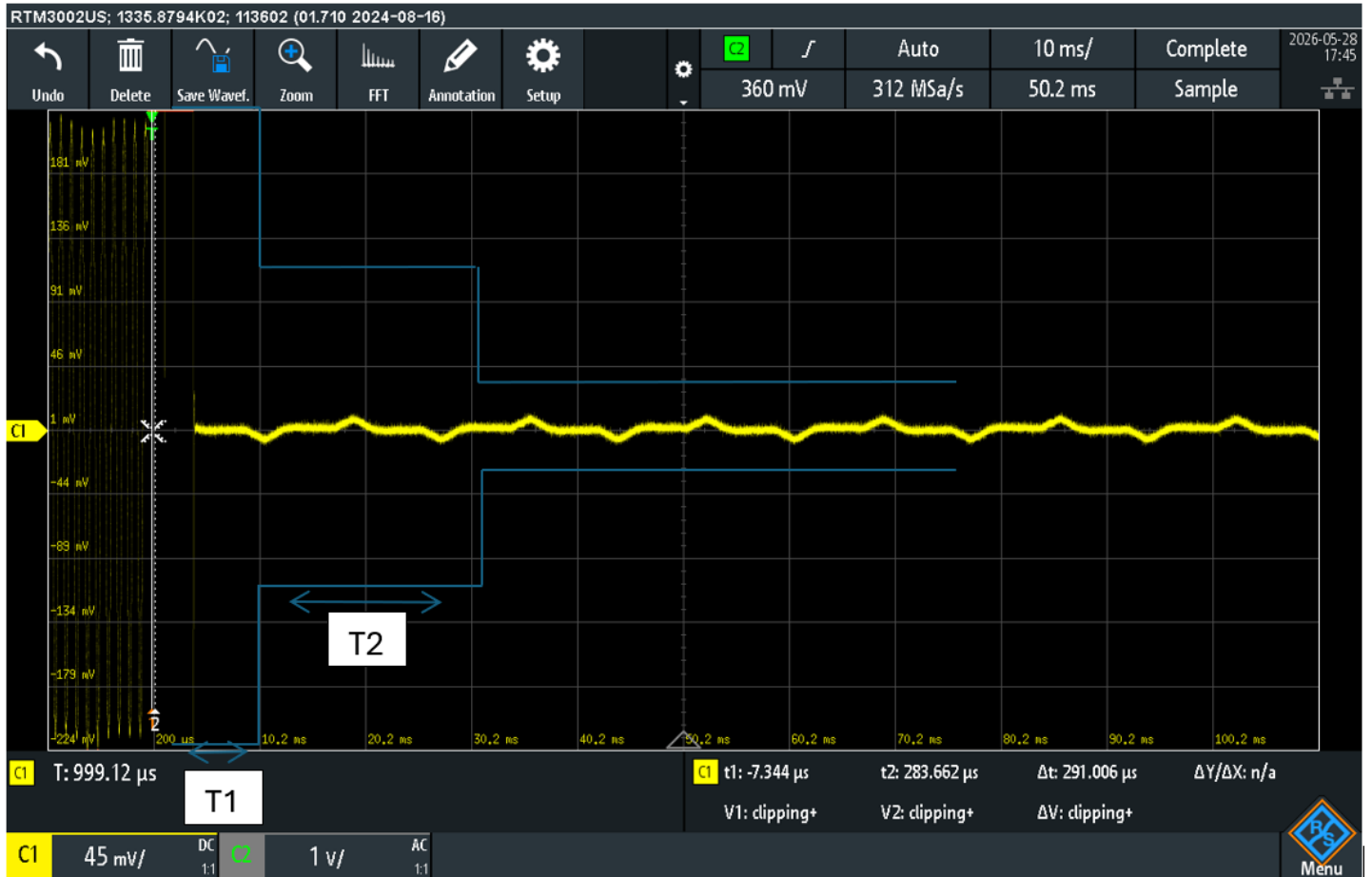
8.8.2 Frequency Stability Plot



8.9 Transient Frequency Behavior

Limits from FCC Part 90.214; and test procedure from ANSI C63.26-2015.



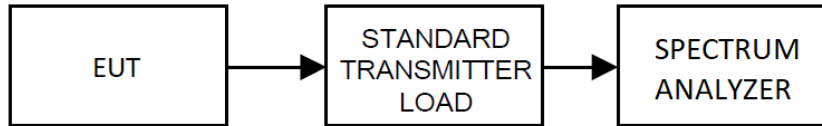




8.10 Adjacent channel power limits

Limits from FCC Part 90.221, and test procedure from ANSI C63.26-2015.

Conducted Test Setup



n/a. The EUT does not operate in a band requiring ACP.

9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

10. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_27537-26_FCC 90_1	1	Initial release	2026-06-06
	3	Updated section 8.4	7/20/2026
	4	Updated page 57	8/5/2026

END OF TEST REPORT
