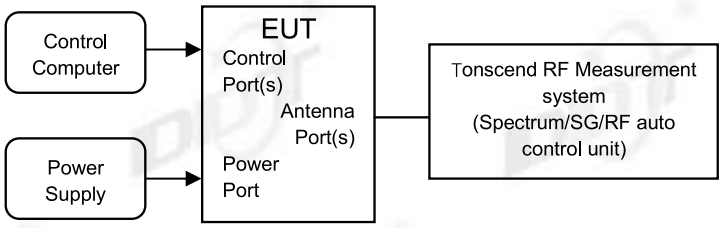
7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

Duty cycle= Pulse's on time / Burst cycle

7.4. Test result

Test Site:	RF Measurement System 1#	Test Date:	2023.10.16-2023.10.23
Ambient Condition:	25.4℃, 46.5 %RH	Test Engineer:	Zora Zhang
Equipment under Test:	WiiM Amp	Model No.:	AMP001
Sample Number:	S23061614-04	Test Power Supply:	AC 230V

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.40	1.50	93.33
		5200	1.40	1.51	92.72
		5240	1.40	1.51	92.72
		5260	1.41	1.51	93.38
		5280	1.40	1.51	92.72
		5320	1.41	1.51	93.38
		5500	1.41	1.51	93.38
		5580	1.40	1.51	92.72
		5700	1.40	1.51	92.72
		5720	1.40	1.50	93.33
		5745	1.40	1.51	92.72
		5785	1.41	1.51	93.38
		5825	1.40	1.51	92.72
11N20SISO	Ant1	5180	1.31	1.42	92.25
		5200	1.32	1.42	92.96
		5240	1.32	1.42	92.96
		5260	1.32	1.42	92.96
		5280	1.32	1.42	92.96
		5320	1.31	1.42	92.25
		5500	1.31	1.42	92.25
		5580	1.32	1.42	92.96
		5700	1.32	1.42	92.96
		5720	1.32	1.42	92.96
		5745	1.32	1.42	92.96
		5785	1.31	1.41	92.91
		5825	1.32	1.42	92.96
11N40SISO	Ant1	5190	0.65	0.76	85.53
		5230	0.65	0.76	85.53
		5270	0.66	0.76	86.84
		5310	0.65	0.75	86.67
		5510	0.65	0.75	86.67

		5550	0.65	0.76	85.53
		5670	0.65	0.76	85.53
		5710	0.66	0.76	86.84
		5755	0.65	0.76	85.53
		5795	0.65	0.76	85.53
11AC20SISO	Ant1	5180	1.32	1.43	92.31
		5200	1.33	1.43	93.01
		5240	1.32	1.43	92.31
		5260	1.33	1.43	93.01
		5280	1.32	1.42	92.96
		5320	1.33	1.43	93.01
		5500	1.32	1.42	92.96
		5580	1.32	1.43	92.31
		5700	1.33	1.43	93.01
		5720	1.32	1.43	92.31
		5745	1.33	1.43	93.01
		5785	1.33	1.43	93.01
		5825	1.32	1.43	92.31
11AC40SISO	Ant1	5190	0.66	0.76	86.84
		5230	0.66	0.77	85.71
		5270	0.66	0.76	86.84
		5310	0.66	0.76	86.84
		5510	0.66	0.76	86.84
		5550	0.66	0.76	86.84
		5670	0.66	0.77	85.71
		5710	0.66	0.76	86.84
		5755	0.66	0.76	86.84
		5795	0.66	0.76	86.84
11AC80SISO	Ant1	5210	0.32	0.42	76.19
		5290	0.32	0.43	74.42
		5530	0.32	0.43	74.42
		5610	0.33	0.43	76.74
		5690	0.32	0.43	74.42
		5775	0.33	0.43	76.74

7.5. Test graphs

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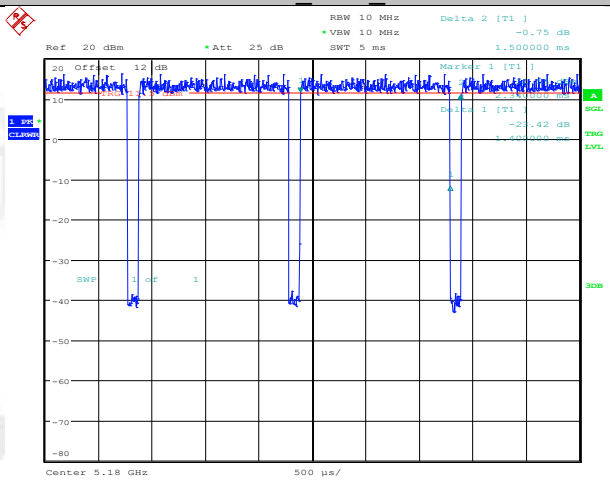

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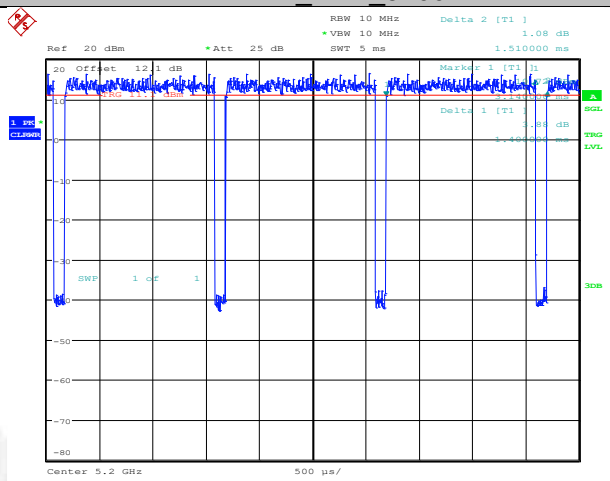

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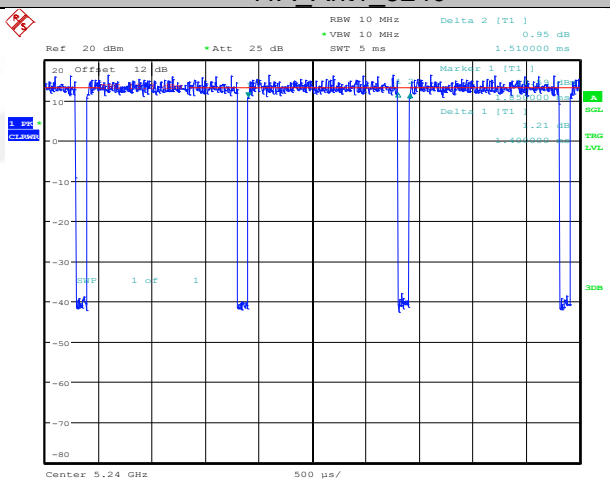

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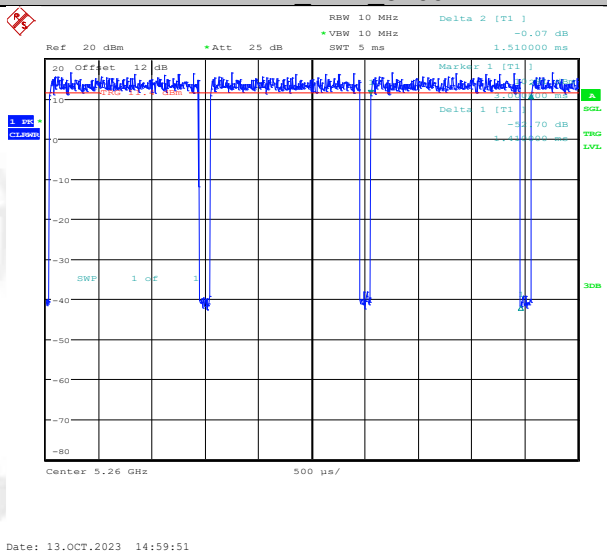

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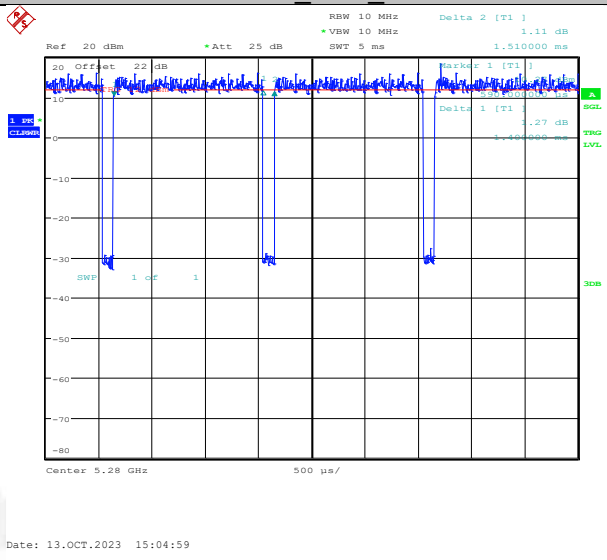

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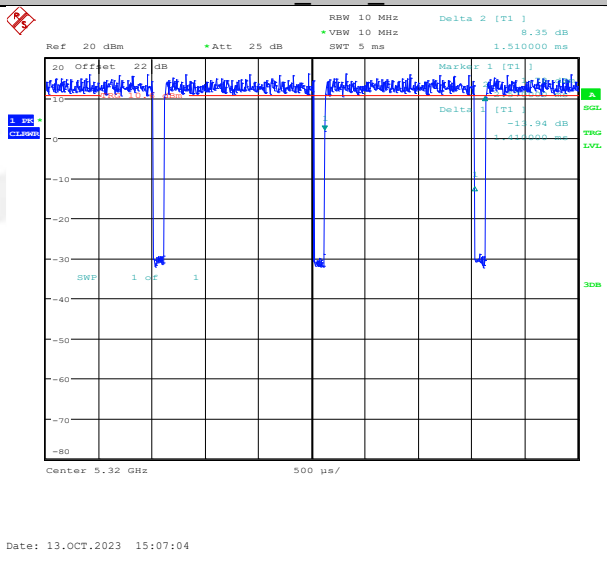

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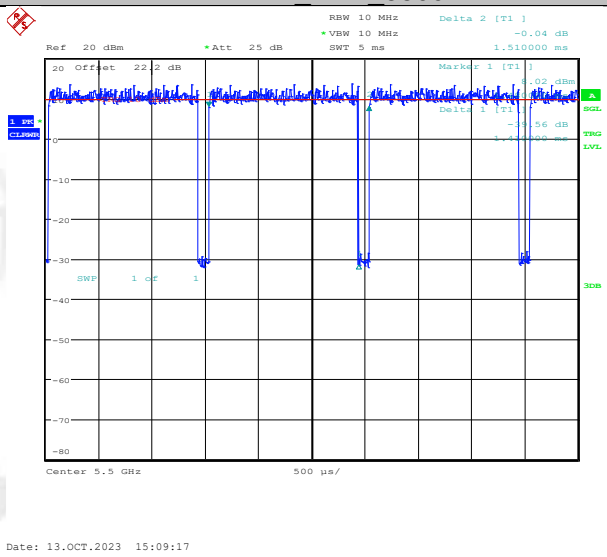

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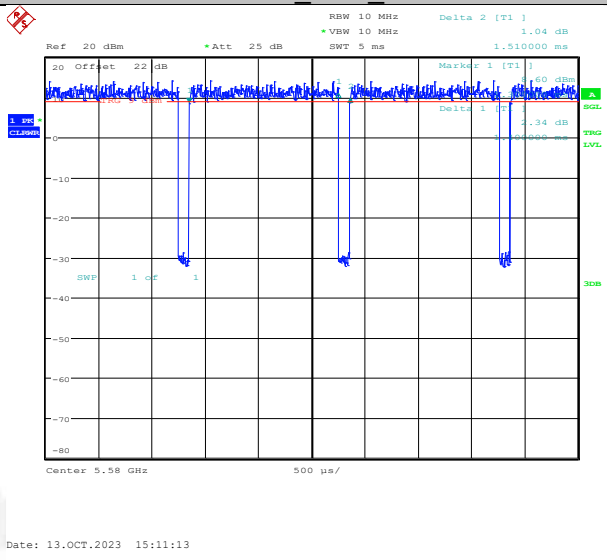

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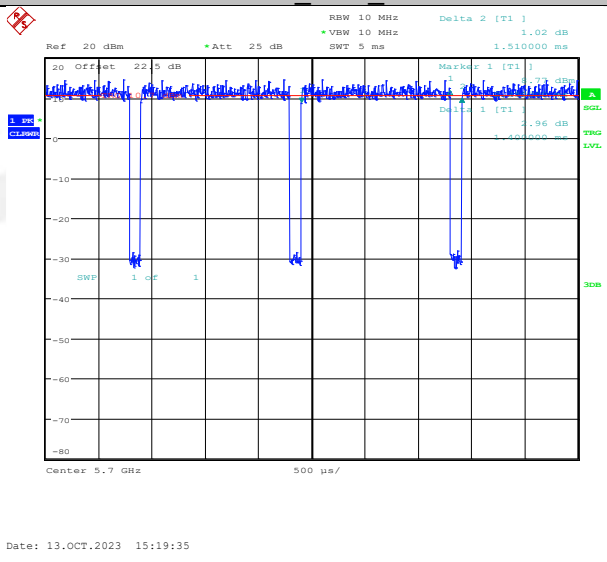

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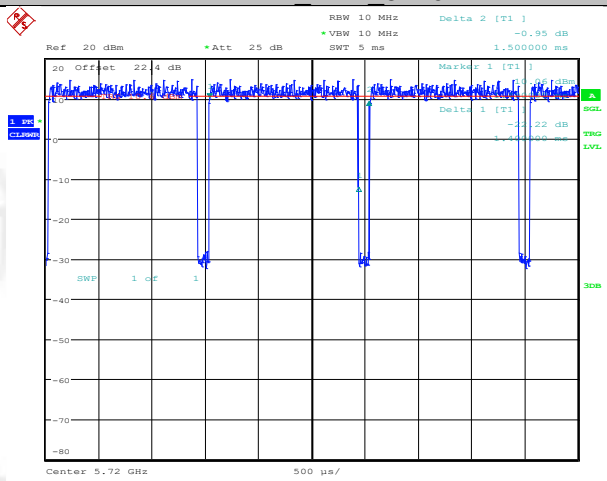

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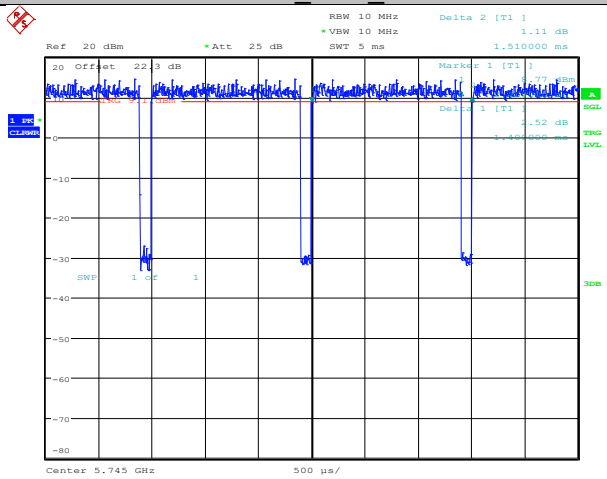

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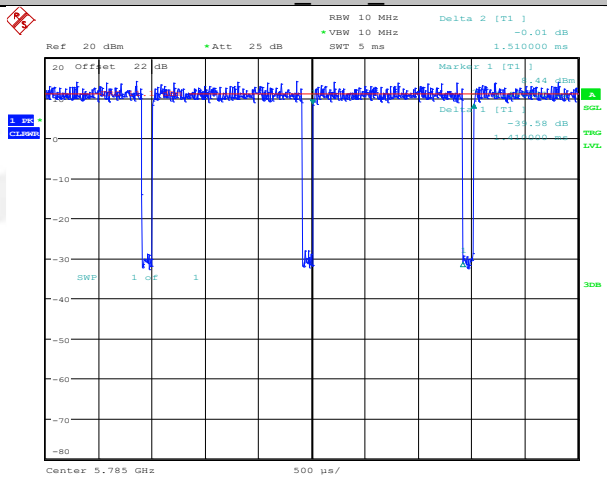

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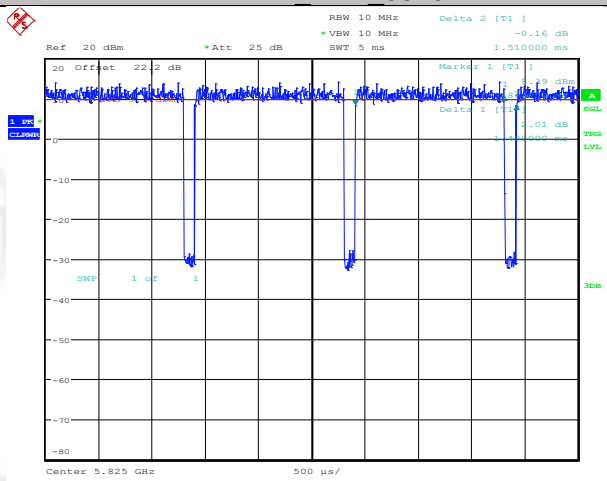

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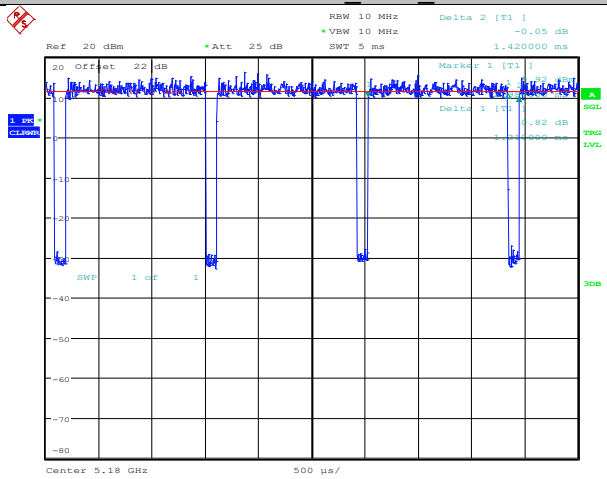

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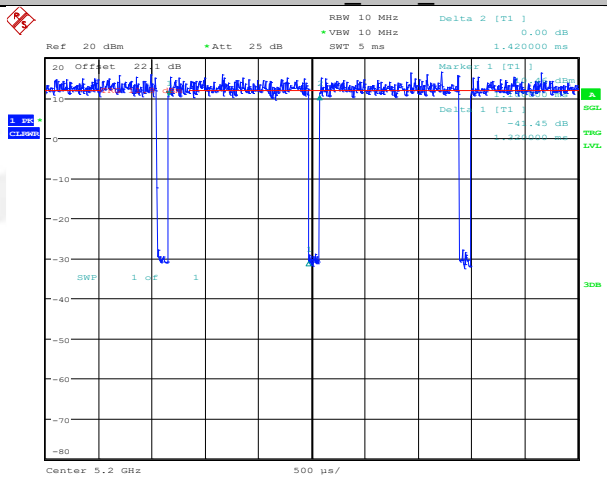

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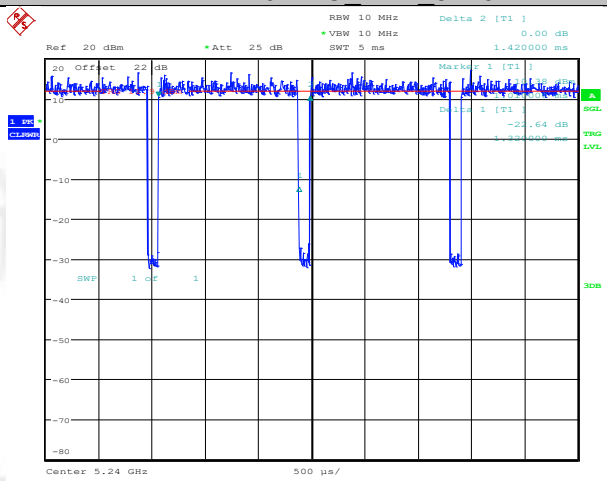

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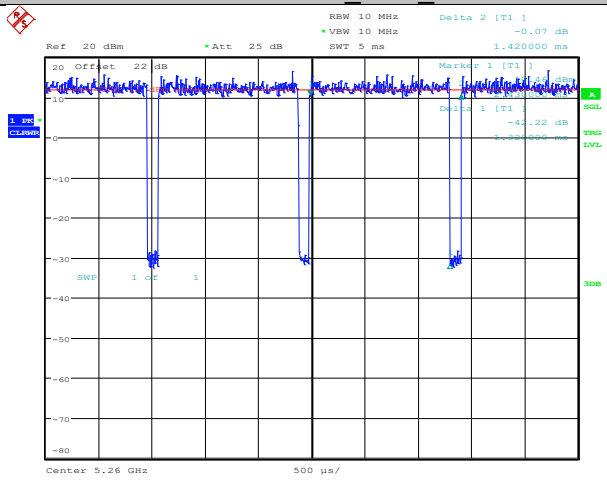

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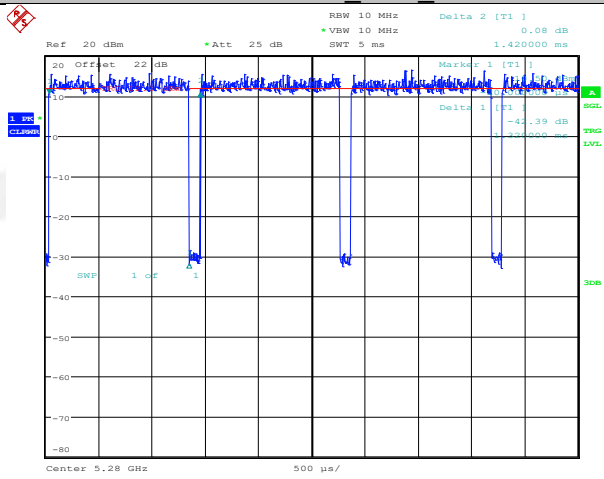

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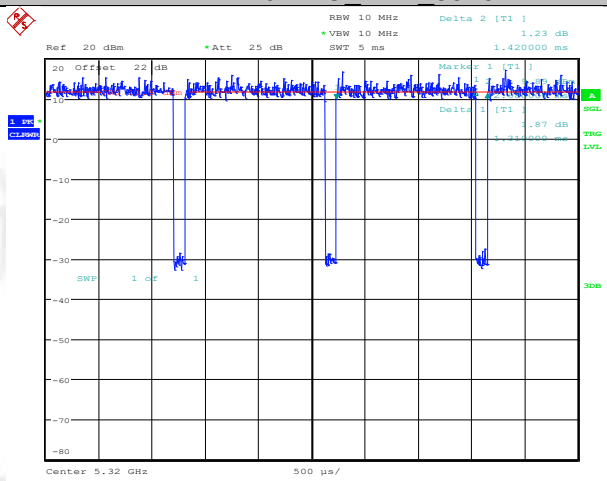

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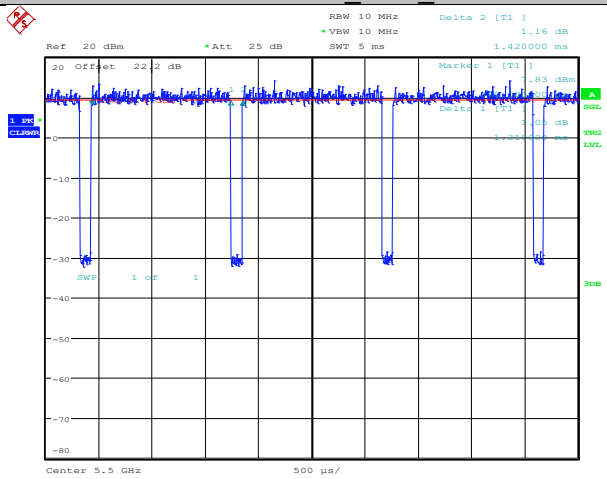

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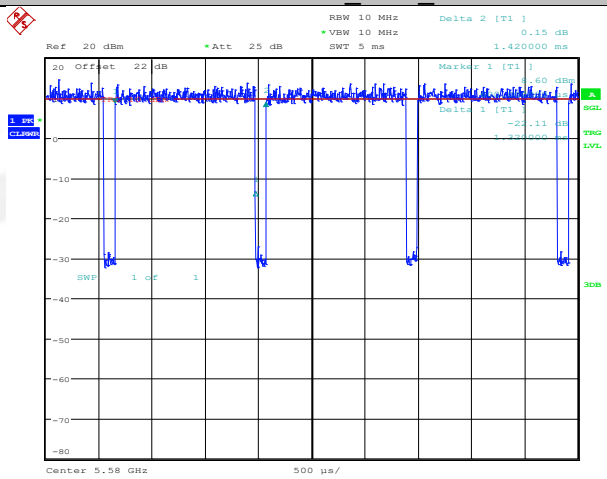

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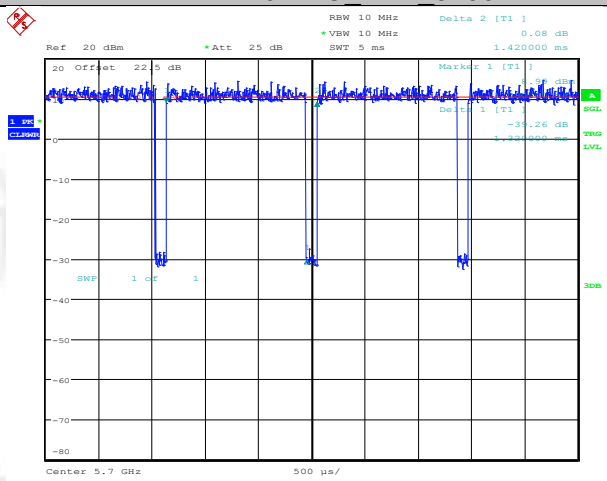

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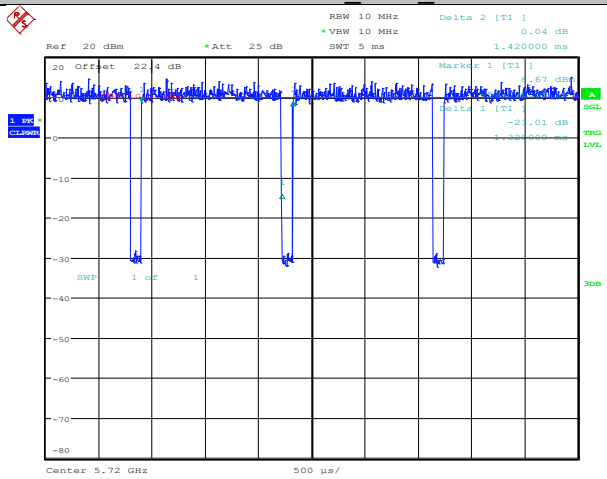

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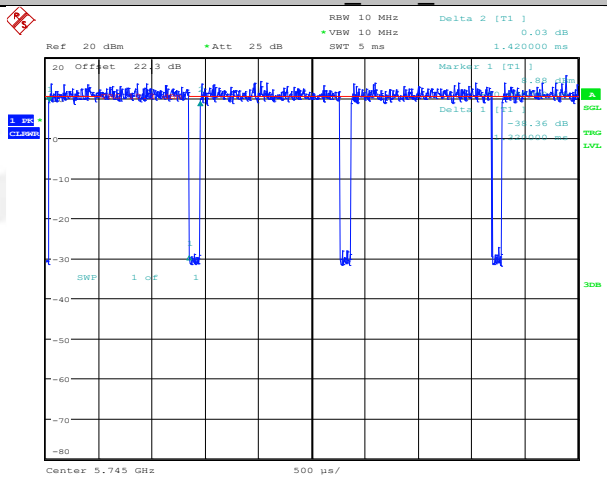

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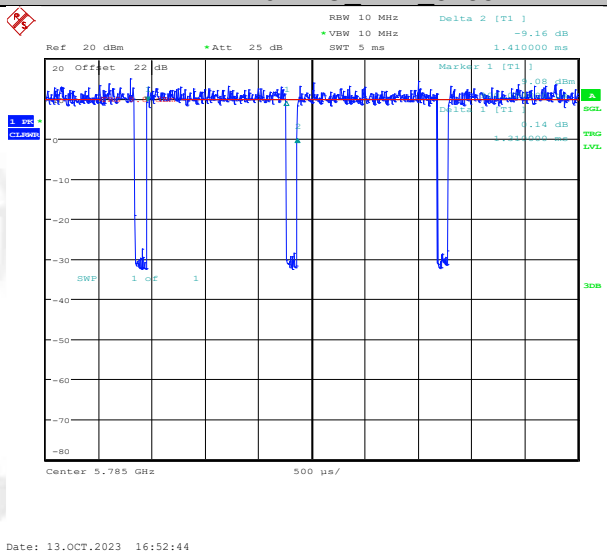

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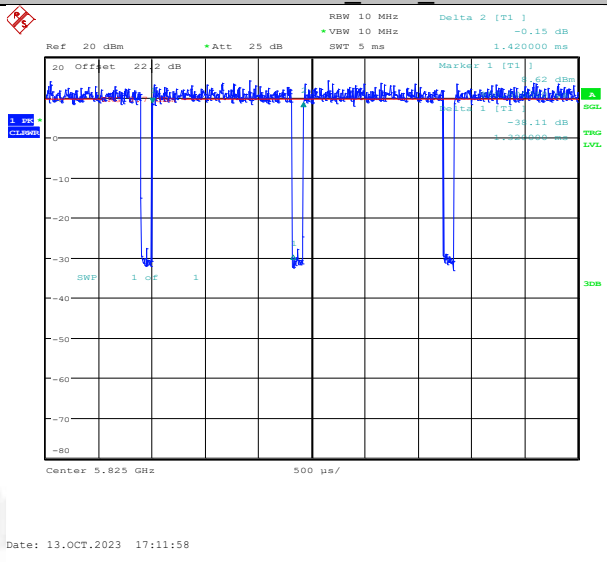

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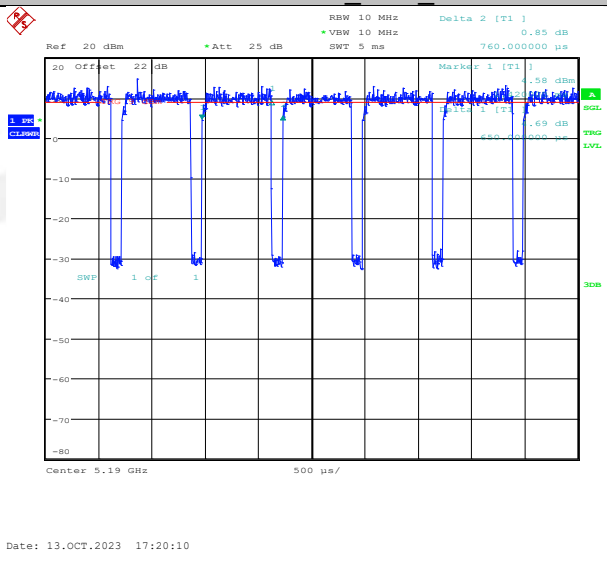

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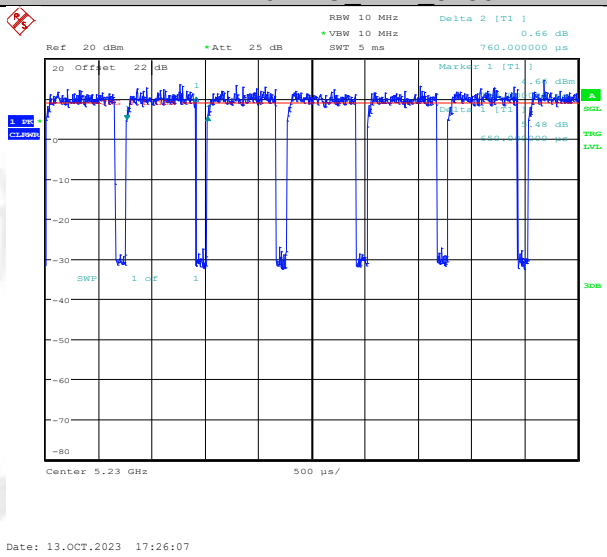

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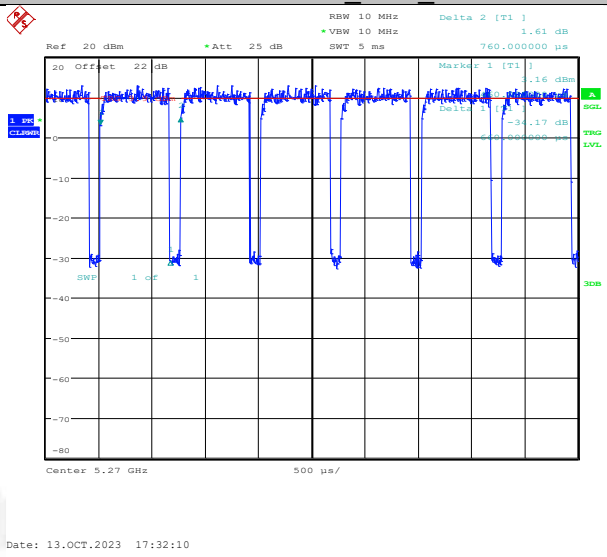

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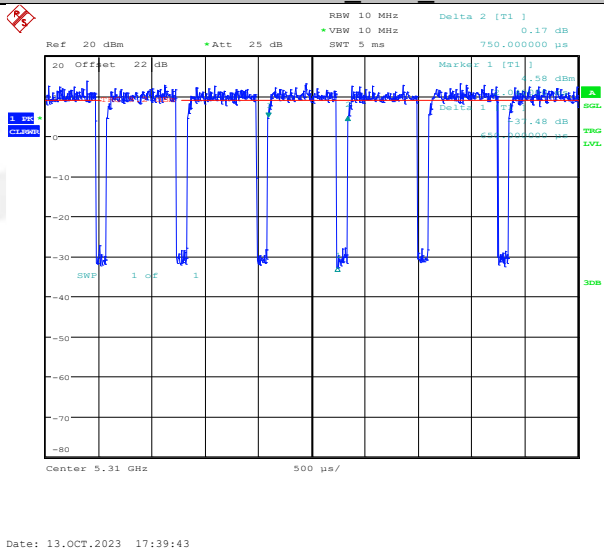

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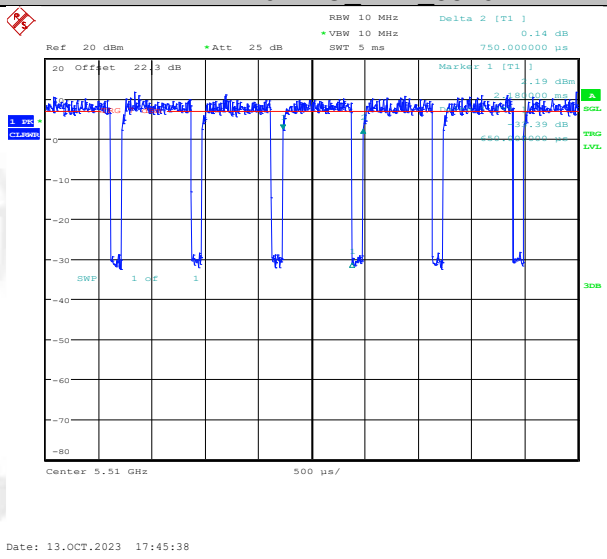

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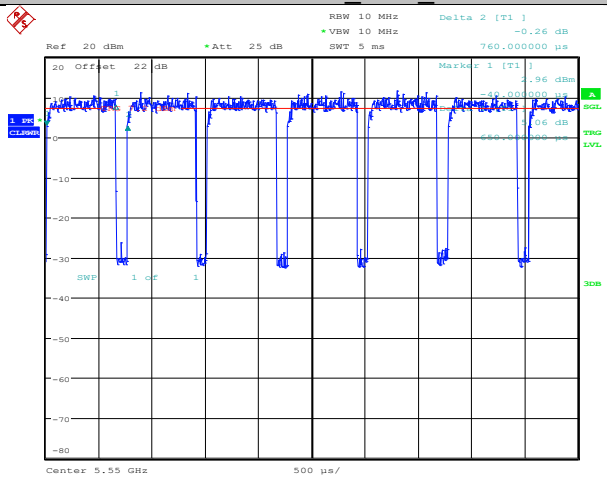

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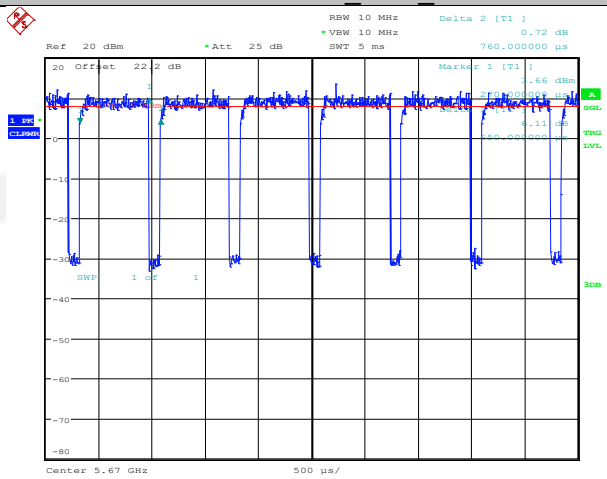

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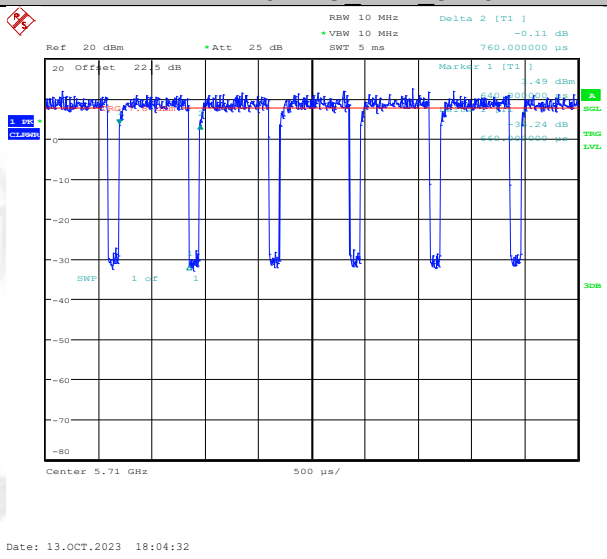

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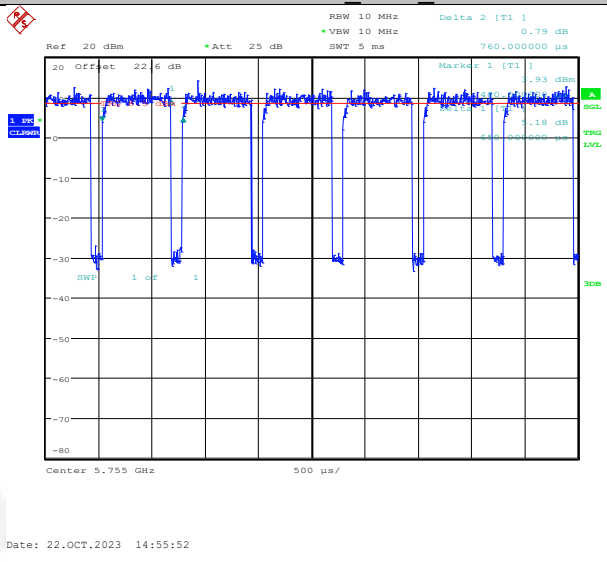

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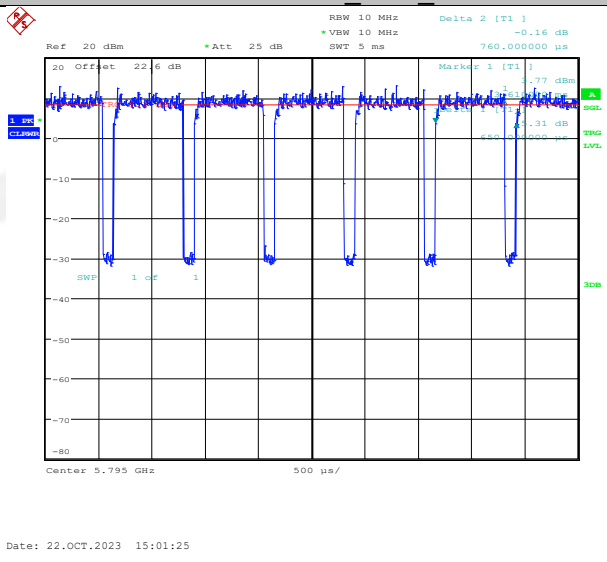

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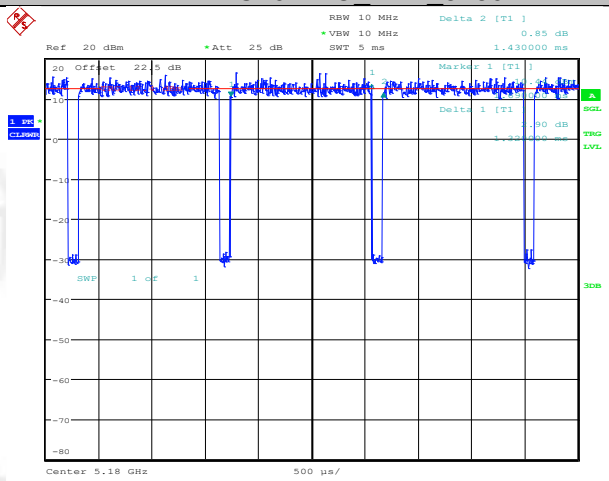

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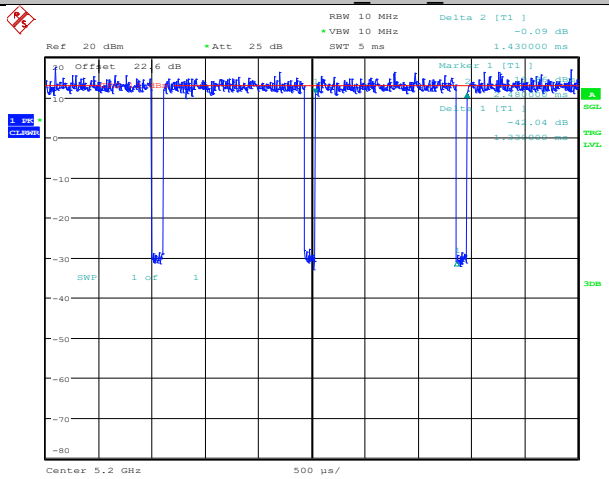

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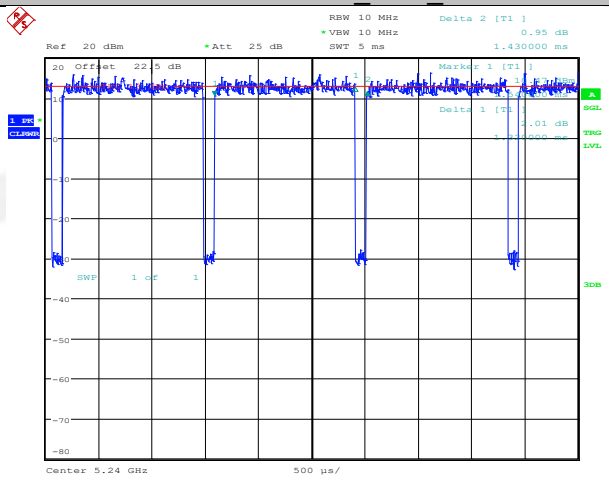

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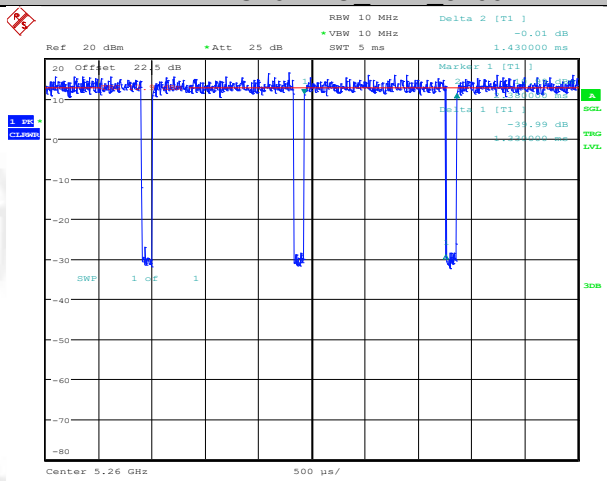

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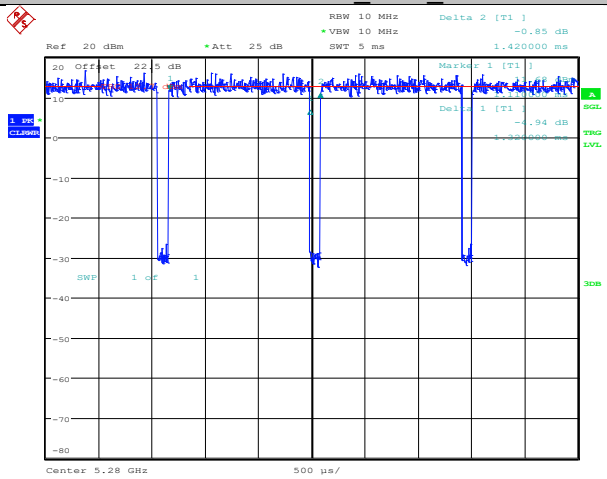

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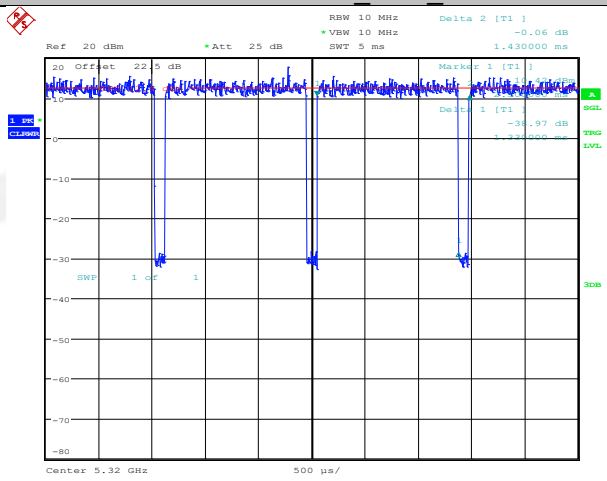

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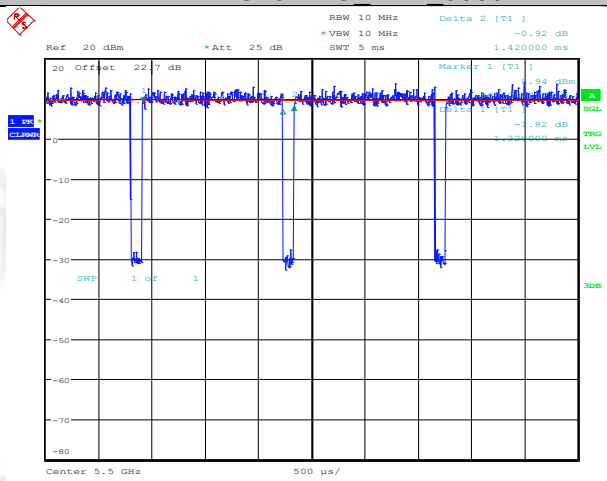

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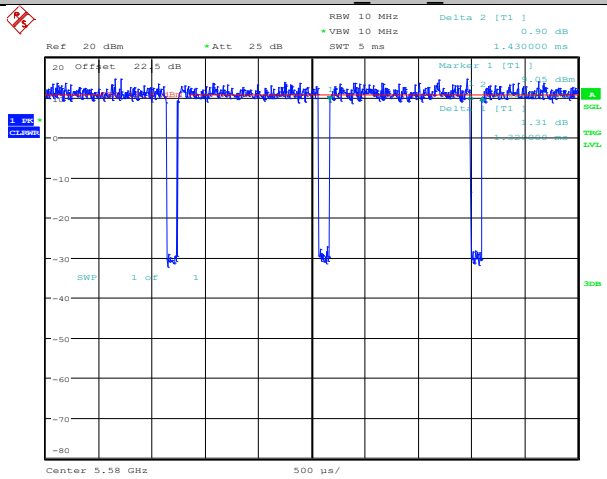

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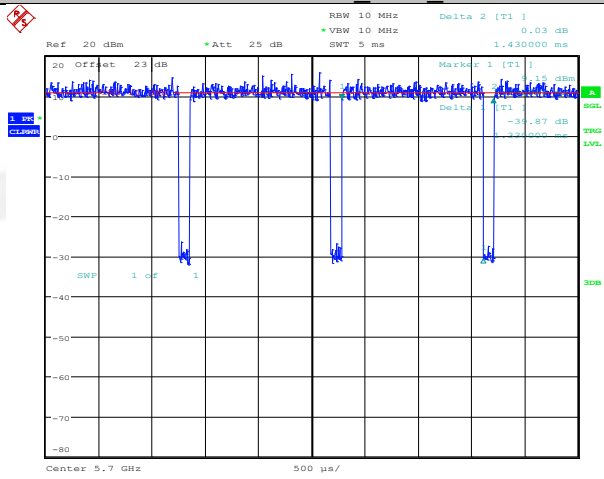

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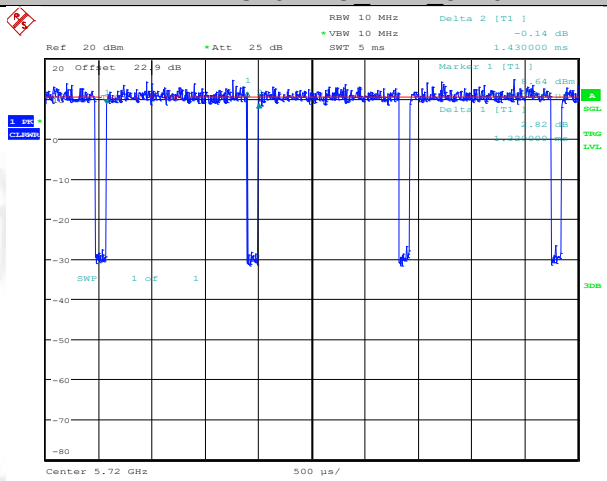

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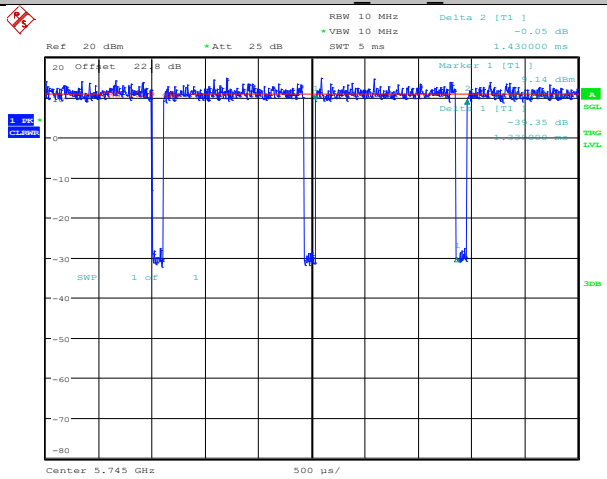

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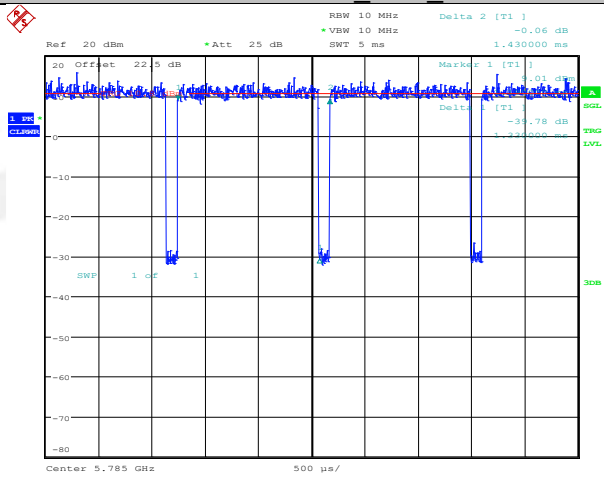

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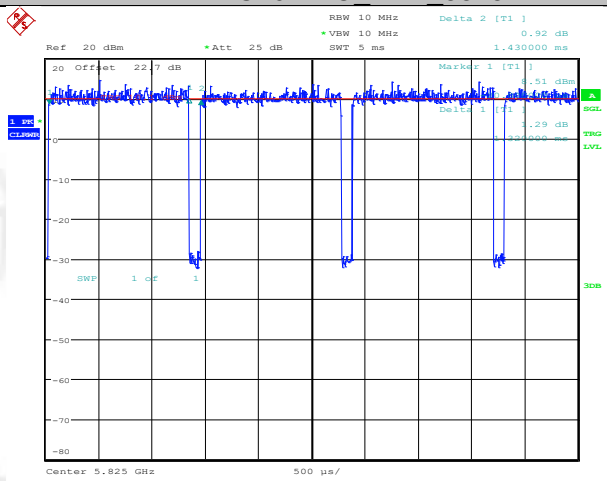

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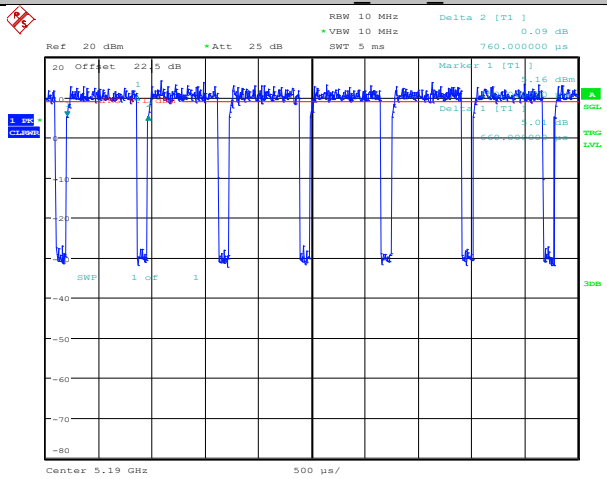

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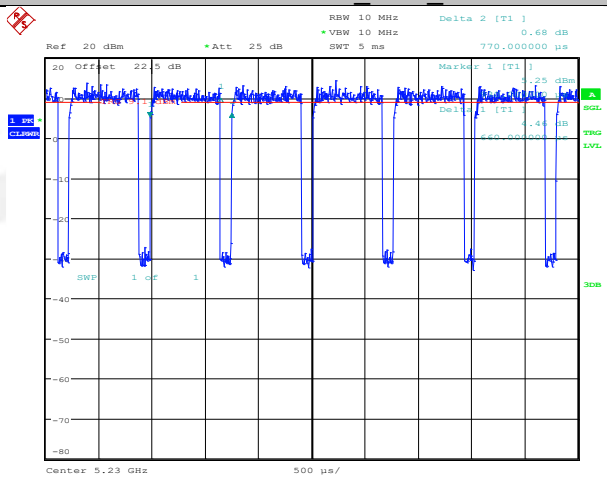

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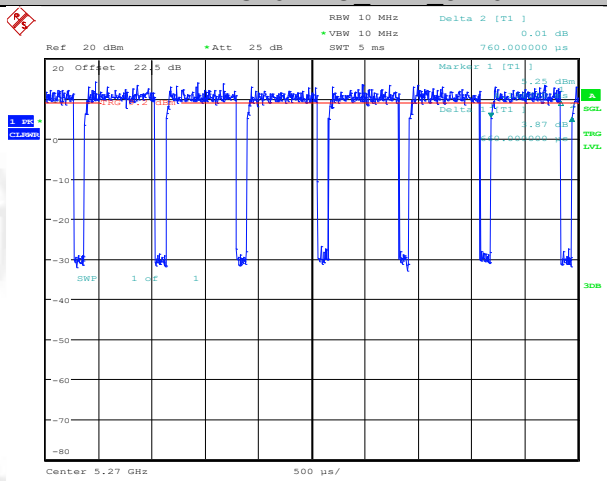

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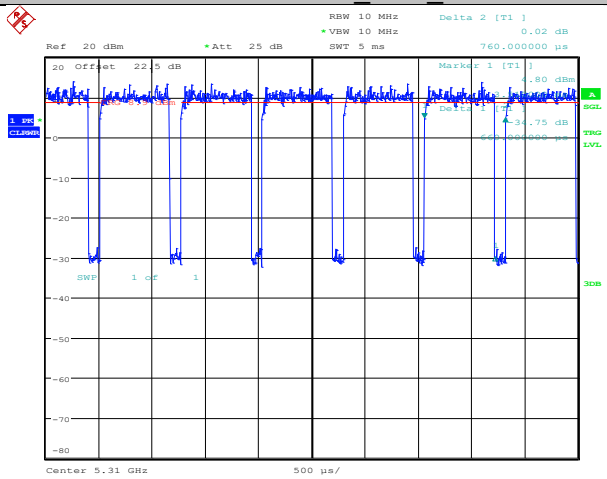

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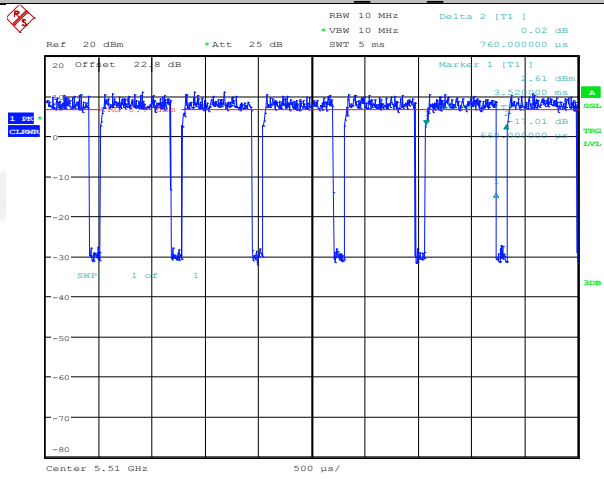

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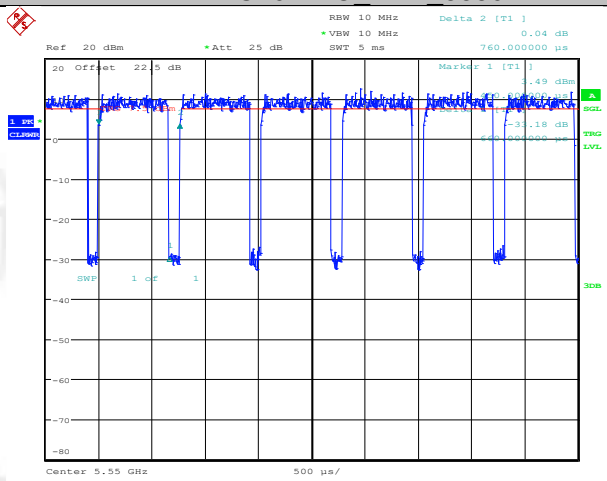

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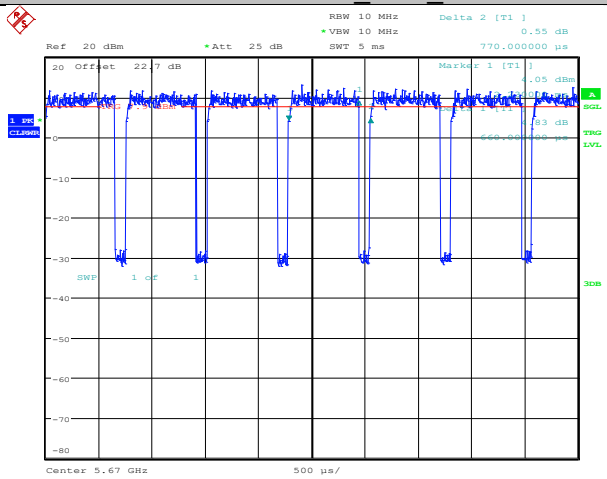

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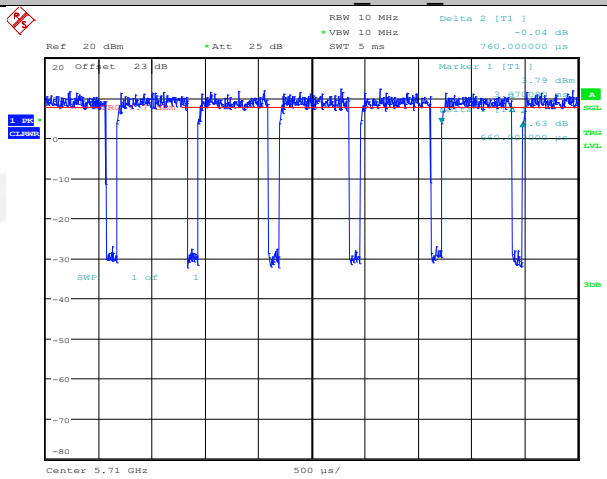

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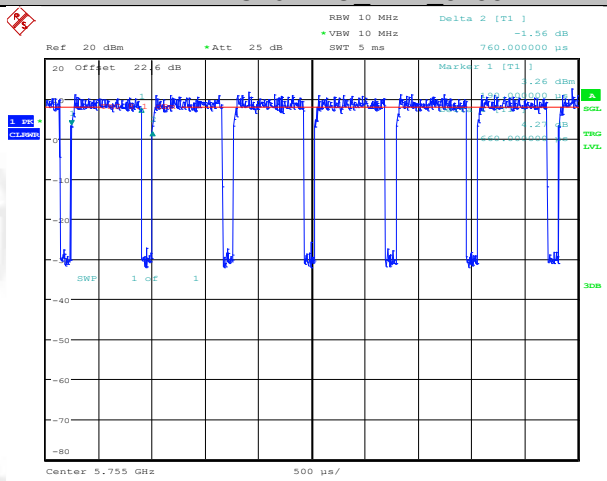

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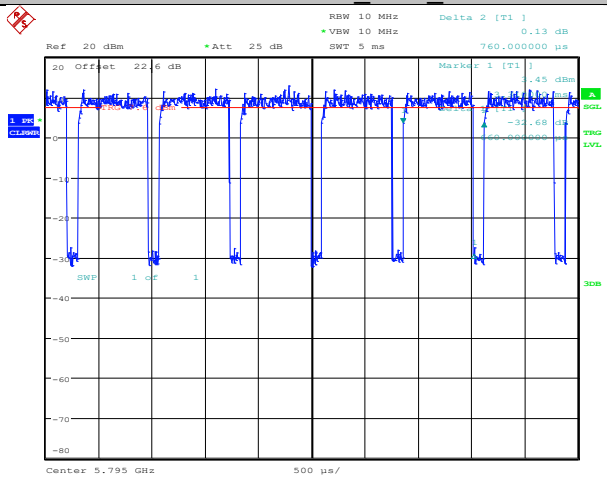

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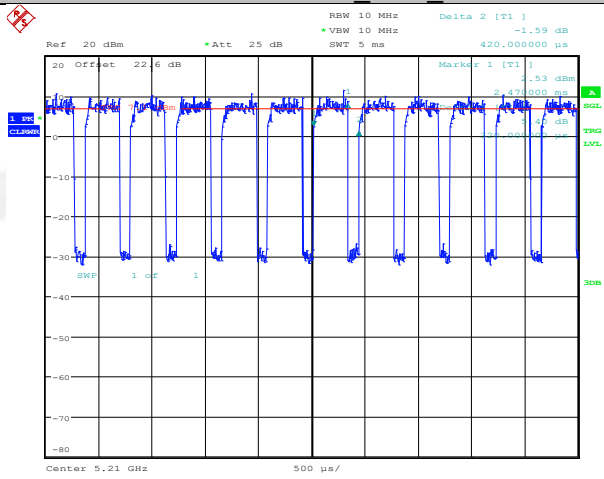

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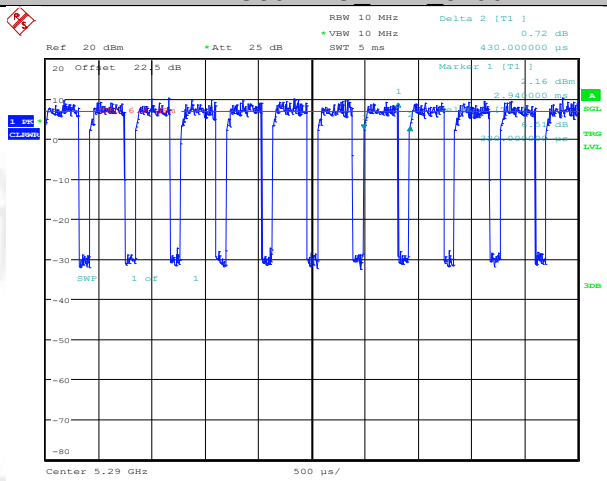

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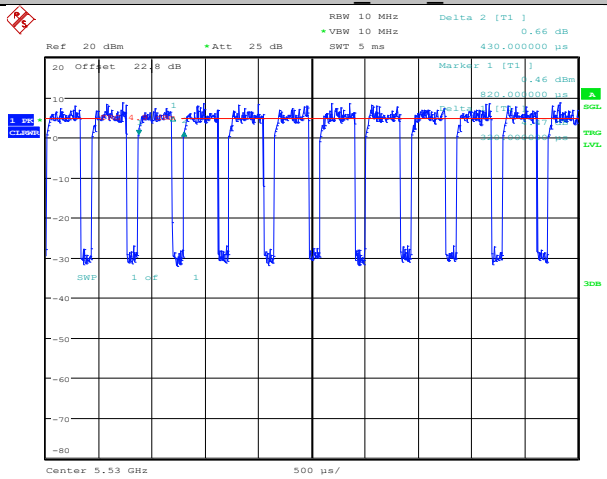

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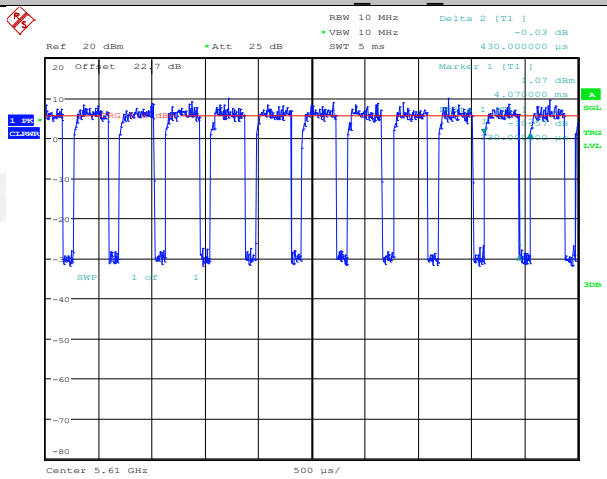

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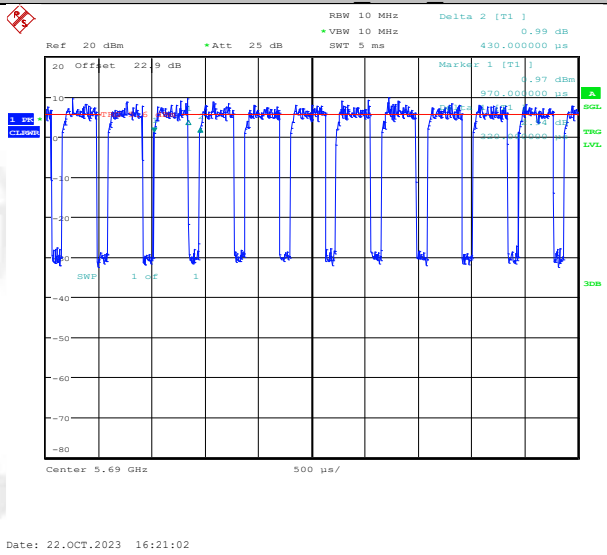
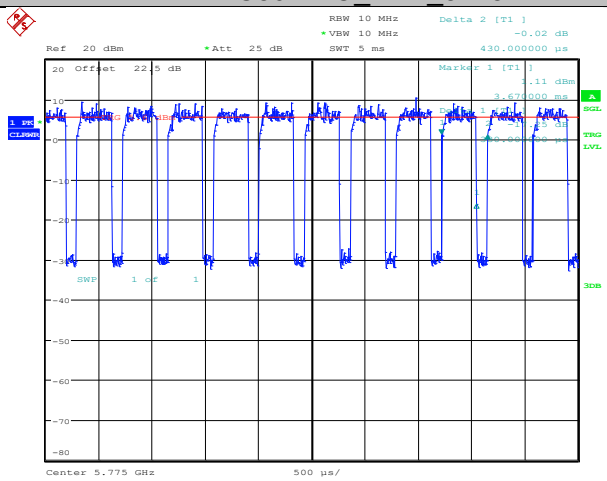
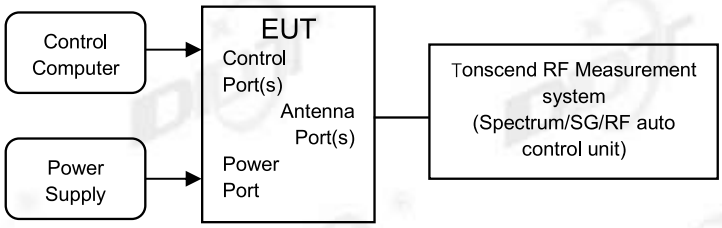


11AC80SISO_Ant1_5775



8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (23.98 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23 dBm) or 10 + 10 $\log_{10}$ B	
	For FCC: 250 mW (23.98 dBm) or 11 + 10 $\log_{10}$ B	5250-5350
	For RSS: For conducted output power: 250 mW (23.98 dBm) or 11 + 10 $\log_{10}$ B	
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or 17 + 10 $\log_{10}$ B	
	For FCC: 250 mW (23.98 dBm) or 11 + 10 $\log_{10}$ B	For FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	For RSS: For conducted output power: 250 mW (23.98 dBm) or 11 + 10 $\log_{10}$ B	
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or 17 + 10 $\log_{10}$ B	
	1 Watt (30 dBm)	5725-5850
Note：For FCC: B=26 bandwidth; For ISED: B=99% bandwidth.		

8.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the output power of each antenna port by power sensor.

8.4. Test result

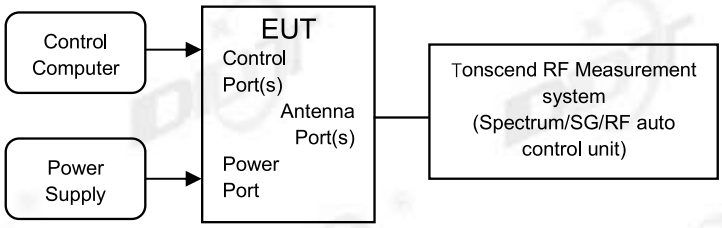
Test Site:	RF Measurement System 1#	Test Date:	2023.10.16-2023.10.23
Ambient Condition:	25.4℃, 46.5 %RH	Test Engineer:	Zora Zhang
Equipment under Test:	WiiM Amp	Model No.:	AMP001
Sample Number:	S23061614-04	Test Power Supply:	AC 230V

Test Mode	Antenna	Frequency [MHz]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	ISED EIRP Limit [dBm]	Verdict
11A	Ant1	5180	93.33	0.30	9.80	23.98	/	12.21	22.37	PASS
		5200	92.72	0.33	9.97	23.98	/	12.38	22.37	PASS
		5240	92.72	0.33	10.06	23.98	/	12.47	22.37	PASS
		5260	93.38	0.30	10.02	23.98	23.35	12.43	30.00	PASS
		5280	92.72	0.33	9.52	23.98	23.35	11.93	30.00	PASS
		5320	93.38	0.30	9.34	23.98	23.35	11.75	30.00	PASS
		5500	93.38	0.30	7.29	23.98	23.36	9.70	30.00	PASS
		5580	92.72	0.33	7.94	23.98	23.36	10.35	30.00	PASS
		5700	92.72	0.33	8.37	23.98	23.36	10.78	30.00	PASS
		5720	93.33	0.30	8.15	23.98	23.36	10.56	30.00	PASS
		5745	92.72	0.33	7.99	30.00	30.00	10.40	---	PASS
		5785	93.38	0.30	7.35	30.00	30.00	9.76	---	PASS
		5825	92.72	0.33	7.57	30.00	30.00	9.98	---	PASS
11N20SISO	Ant1	5180	92.25	0.35	9.08	23.98	/	11.49	22.59	PASS
		5200	92.96	0.32	9.19	23.98	/	11.60	22.59	PASS
		5240	92.96	0.32	9.42	23.98	/	11.83	22.59	PASS
		5260	92.96	0.32	9.27	23.98	23.61	11.68	30.00	PASS
		5280	92.96	0.32	9.32	23.98	23.61	11.73	30.00	PASS
		5320	92.25	0.35	8.91	23.98	23.61	11.32	30.00	PASS
		5500	92.25	0.35	6.98	23.98	23.59	9.39	30.00	PASS
		5580	92.96	0.32	7.58	23.98	23.59	9.99	30.00	PASS
		5700	92.96	0.32	8.17	23.98	23.59	10.58	30.00	PASS
		5720	92.96	0.32	7.83	23.98	23.59	10.24	30.00	PASS
		5745	92.96	0.32	7.57	30.00	30.00	9.98	---	PASS
		5785	92.91	0.32	6.96	30.00	30.00	9.37	---	PASS
		5825	92.96	0.32	7.21	30.00	30.00	9.62	---	PASS
11N40SISO	Ant1	5190	85.53	0.68	9.23	23.98	/	11.64	23.00	PASS
		5230	85.53	0.68	9.38	23.98	/	11.79	23.00	PASS
		5270	86.84	0.61	9.33	23.98	23.98	11.74	30.00	PASS
		5310	86.67	0.62	9.03	23.98	23.98	11.44	30.00	PASS

		5510	86.67	0.62	7.22	23.98	23.98	9.63	30.00	PASS
		5550	85.53	0.68	7.28	23.98	23.98	9.69	30.00	PASS
		5670	85.53	0.68	8.47	23.98	23.98	10.88	30.00	PASS
		5710	86.84	0.61	8.01	23.98	23.98	10.42	30.00	PASS
		5755	85.53	0.68	8.26	30.00	30.00	10.67	---	PASS
		5795	85.53	0.68	7.80	30.00	30.00	10.21	---	PASS
11AC20SISO	Ant1	5180	92.31	0.35	9.60	23.98	/	12.01	22.59	PASS
		5200	93.01	0.31	9.86	23.98	/	12.27	22.59	PASS
		5240	92.31	0.35	9.84	23.98	/	12.25	22.59	PASS
		5260	93.01	0.31	9.85	23.98	23.61	12.26	30.00	PASS
		5280	92.96	0.32	9.58	23.98	23.61	11.99	30.00	PASS
		5320	93.01	0.31	9.13	23.98	23.61	11.54	30.00	PASS
		5500	92.96	0.32	6.69	23.98	23.61	9.10	30.00	PASS
		5580	92.31	0.35	8.01	23.98	23.61	10.42	30.00	PASS
		5700	93.01	0.31	8.41	23.98	23.61	10.82	30.00	PASS
		5720	92.31	0.35	7.98	23.98	23.61	10.39	30.00	PASS
		5745	93.01	0.31	7.77	30.00	30.00	10.18	---	PASS
		5785	93.01	0.31	7.69	30.00	30.00	10.10	---	PASS
		5825	92.31	0.35	7.27	30.00	30.00	9.68	---	PASS
11AC40SISO	Ant1	5190	86.84	0.61	9.78	23.98	/	12.19	23.00	PASS
		5230	85.71	0.67	9.97	23.98	/	12.38	23.00	PASS
		5270	86.84	0.61	9.63	23.98	23.98	12.04	30.00	PASS
		5310	86.84	0.61	9.32	23.98	23.98	11.73	30.00	PASS
		5510	86.84	0.61	7.28	23.98	23.98	9.69	30.00	PASS
		5550	86.84	0.61	8.11	23.98	23.98	10.52	30.00	PASS
		5670	85.71	0.67	8.92	23.98	23.98	11.33	30.00	PASS
		5710	86.84	0.61	8.41	23.98	23.98	10.82	30.00	PASS
		5755	86.84	0.61	8.20	30.00	30.00	10.61	---	PASS
		5795	86.84	0.61	7.91	30.00	30.00	10.32	---	PASS
11AC80SISO	Ant1	5210	76.19	1.18	9.55	23.98	/	11.96	23.00	PASS
		5290	74.42	1.28	9.41	23.98	23.98	11.82	30.00	PASS
		5530	74.42	1.28	7.51	23.98	23.98	9.92	30.00	PASS
		5610	76.74	1.15	8.39	23.98	23.98	10.80	30.00	PASS
		5690	74.42	1.28	8.62	23.98	23.98	11.03	30.00	PASS
		5775	76.74	1.15	7.99	30.00	30.00	10.40	---	PASS

9. Power Spectral Density

9.1. Block diagram of test setup



9.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISED: 5470 - 5600 5650 - 5725
	30 dBm/500 kHz	5725-5850

9.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

9.4. Test result

Test Site:	RF Measurement System 1#	Test Date:	2023.10.16-2023.10.23
Ambient Condition:	25.4℃, 46.5 %RH	Test Engineer:	Zora Zhang
Equipment under Test:	WiiM Amp	Model No.:	AMP001
Sample Number:	S23061614-04	Test Power Supply:	AC 230V

Test Mode	Antenna	Frequency [MHz]	Conducted Result [dBm/MHz]	Conducted Limit [dBm/MHz]	EIRP Result [dBm/MHz]	EIRP Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-0.11	≤11.00	2.30	≤10.00	PASS
		5200	0.31	≤11.00	2.72	≤10.00	PASS
		5240	0.02	≤11.00	2.43	≤10.00	PASS
		5260	-0.48	≤11.00	1.93	---	PASS
		5280	0.04	≤11.00	2.45	---	PASS
		5320	-0.39	≤11.00	2.02	---	PASS
		5500	-2.44	≤11.00	-0.03	---	PASS
		5580	-1.77	≤11.00	0.64	---	PASS
		5700	-1.75	≤11.00	0.66	---	PASS
		5720_UNII-2C	-1.91	≤11.00	0.50	---	PASS
		5720_UNII-3	-8.29	≤30.00	-5.88	---	PASS
		5745	-4.23	≤30.00	-1.82	---	PASS
		5785	-4.81	≤30.00	-2.40	---	PASS
		5825	-4.72	≤30.00	-2.31	---	PASS
11N20SISO	Ant1	5180	-1.05	≤11.00	1.36	≤10.00	PASS
		5200	-0.57	≤11.00	1.84	≤10.00	PASS

		5240	-0.74	≤11.00	1.67	≤10.00	PASS
		5260	-0.64	≤11.00	1.77	---	PASS
		5280	-0.33	≤11.00	2.08	---	PASS
		5320	-1.09	≤11.00	1.32	---	PASS
		5500	-2.99	≤11.00	-0.58	---	PASS
		5580	-2.39	≤11.00	0.02	---	PASS
		5700	-2.12	≤11.00	0.29	---	PASS
		5720_UNII-2C	-2.47	≤11.00	-0.06	---	PASS
		5720_UNII-3	-8.74	≤30.00	-6.33	---	PASS
		5745	-4.84	≤30.00	-2.43	---	PASS
		5785	-5.34	≤30.00	-2.93	---	PASS
		5825	-5.25	≤30.00	-2.84	---	PASS
11N40SISO	Ant1	5190	-3.54	≤11.00	-1.13	≤10.00	PASS
		5230	-3.47	≤11.00	-1.06	≤10.00	PASS
		5270	-3.11	≤11.00	-0.70	---	PASS
		5310	-3.63	≤11.00	-1.22	---	PASS
		5510	-5.53	≤11.00	-3.12	---	PASS
		5550	-5.49	≤11.00	-3.08	---	PASS
		5670	-4.59	≤11.00	-2.18	---	PASS
		5710_UNII-2C	-4.83	≤11.00	-2.42	---	PASS
		5710_UNII-3	-11.41	≤30.00	-9.00	---	PASS
		5755	-7.03	≤30.00	-4.62	---	PASS
		5795	-7.54	≤30.00	-5.13	---	PASS
11AC20SISO	Ant1	5180	-0.47	≤11.00	1.94	≤10.00	PASS
		5200	-0.07	≤11.00	2.34	≤10.00	PASS
		5240	-0.27	≤11.00	2.14	≤10.00	PASS
		5260	0.08	≤11.00	2.49	---	PASS
		5280	-0.29	≤11.00	2.12	---	PASS
		5320	-0.81	≤11.00	1.60	---	PASS
		5500	-2.99	≤11.00	-0.58	---	PASS

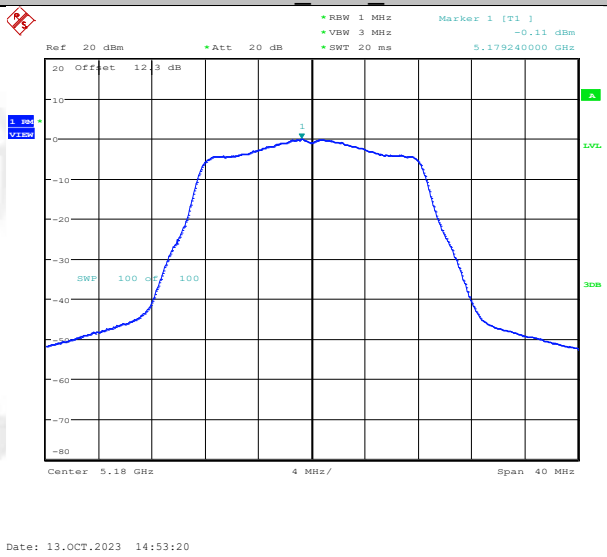
		5580	-2.09	≤11.00	0.32	---	PASS
		5700	-1.68	≤11.00	0.73	---	PASS
		5720_UNII-2C	-2.25	≤11.00	0.16	---	PASS
		5720_UNII-3	-8.68	≤30.00	-6.27	---	PASS
		5745	-4.64	≤30.00	-2.23	---	PASS
		5785	-4.81	≤30.00	-2.40	---	PASS
		5825	-5.28	≤30.00	-2.87	---	PASS
11AC40SISO	Ant1	5190	-2.97	≤11.00	-0.56	≤10.00	PASS
		5230	-2.88	≤11.00	-0.47	≤10.00	PASS
		5270	-3.20	≤11.00	-0.79	---	PASS
		5310	-3.37	≤11.00	-0.96	---	PASS
		5510	-5.51	≤11.00	-3.10	---	PASS
		5550	-4.76	≤11.00	-2.35	---	PASS
		5670	-4.05	≤11.00	-1.64	---	PASS
		5710_UNII-2C	-4.48	≤11.00	-2.07	---	PASS
		5710_UNII-3	-11.35	≤30.00	-8.94	---	PASS
		5755	-7.26	≤30.00	-4.85	---	PASS
		5795	-7.32	≤30.00	-4.91	---	PASS
11AC80SISO	Ant1	5210	-5.97	≤11.00	-3.56	≤10.00	PASS
		5290	-5.90	≤11.00	-3.49	---	PASS
		5530	-7.54	≤11.00	-5.13	---	PASS
		5610	-7.46	≤11.00	-5.05	---	PASS
		5690_UNII-2C	-7.09	≤11.00	-4.68	---	PASS
		5690_UNII-3	-14.59	≤30.00	-12.18	---	PASS
		5775	-10.20	≤30.00	-7.79	---	PASS

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

11A_Ant1_5180



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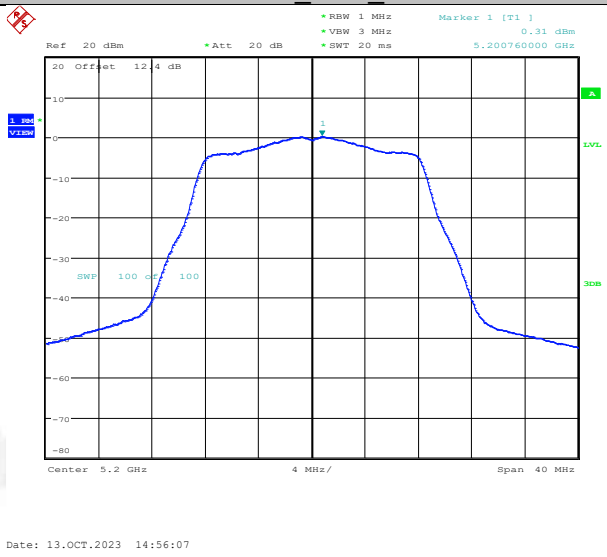

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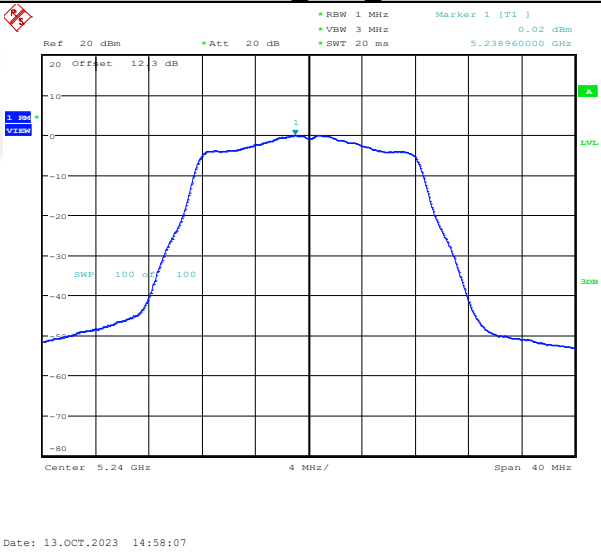

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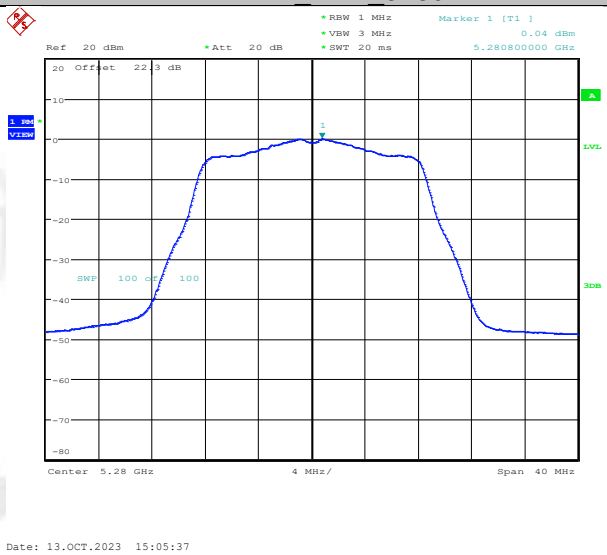

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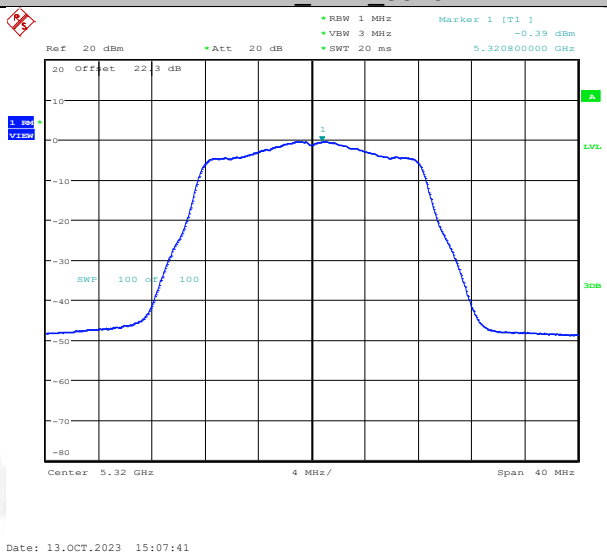

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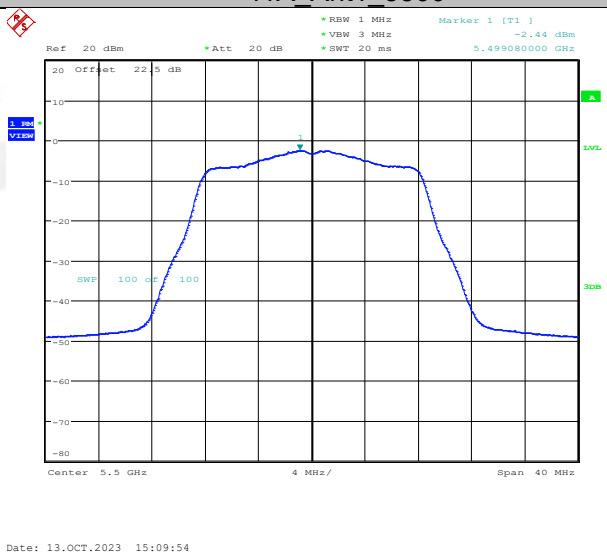

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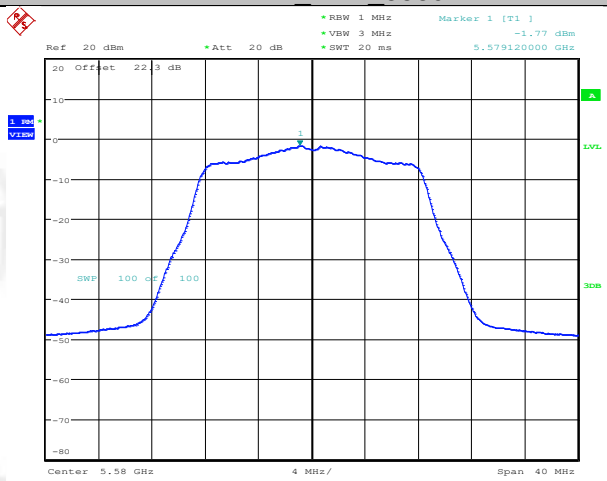

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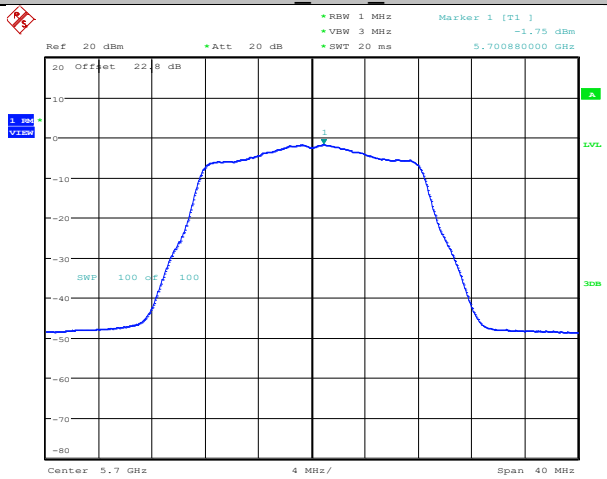

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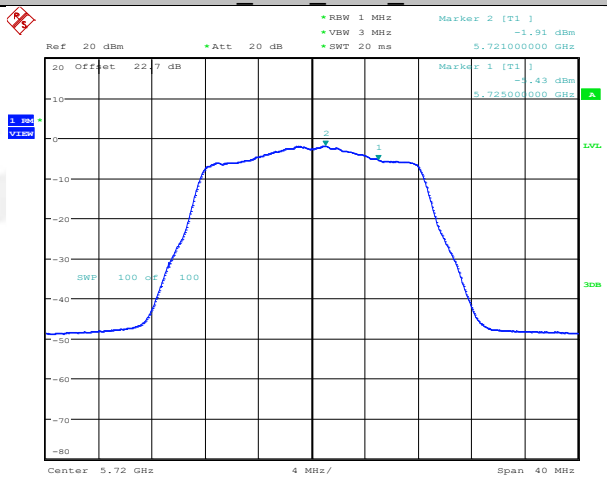

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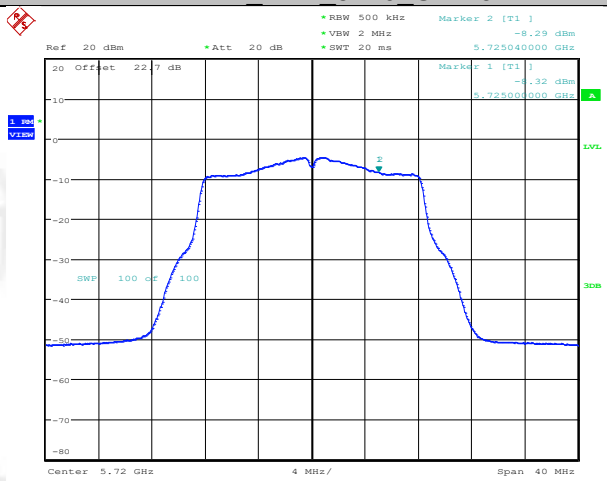

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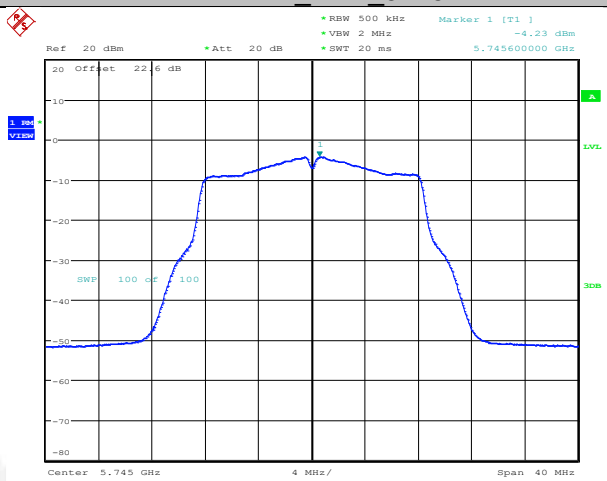

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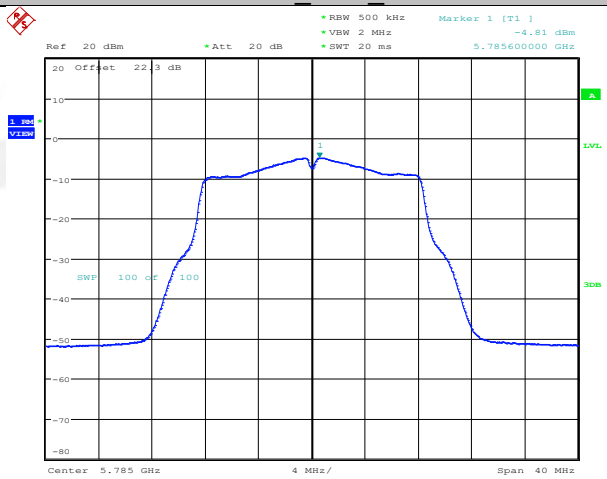

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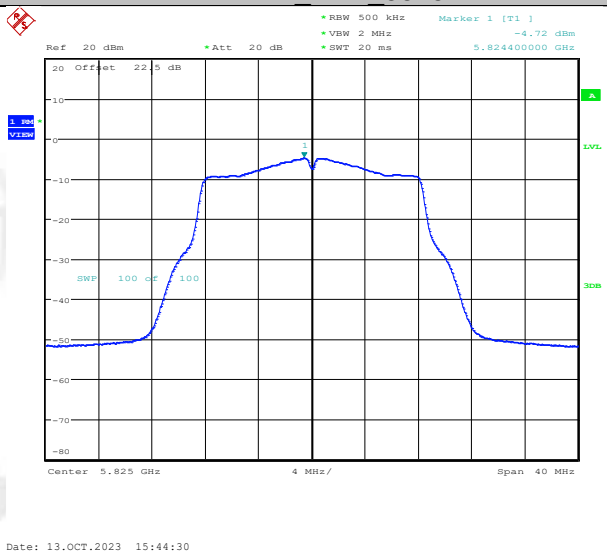

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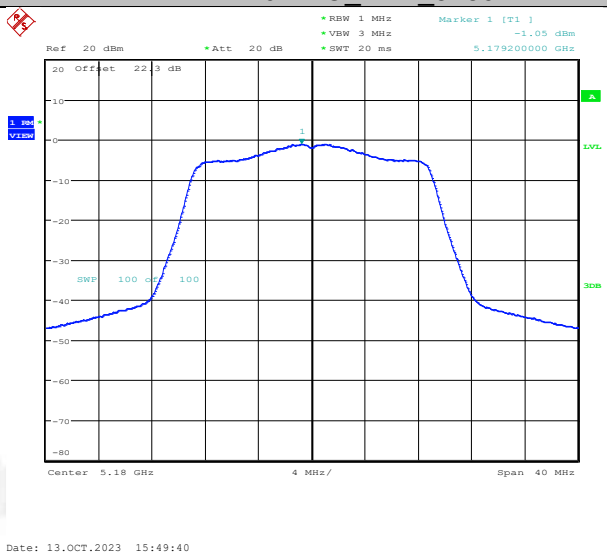

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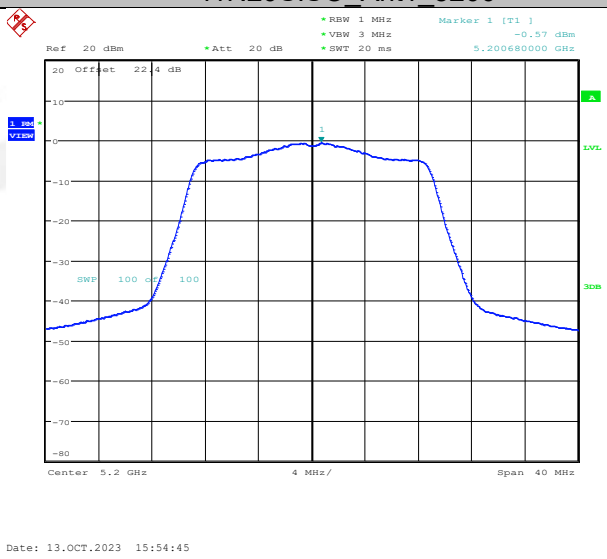

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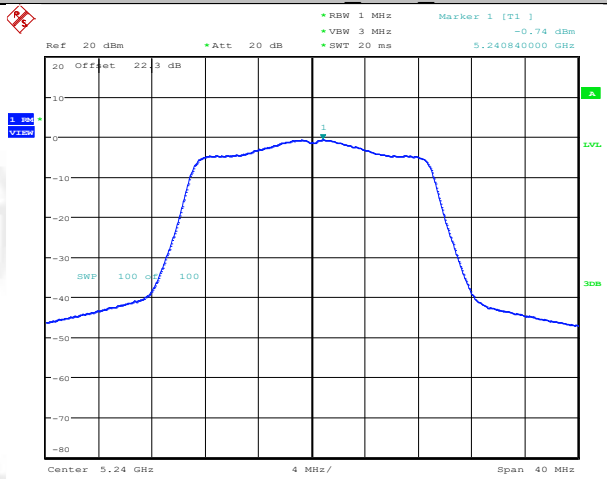

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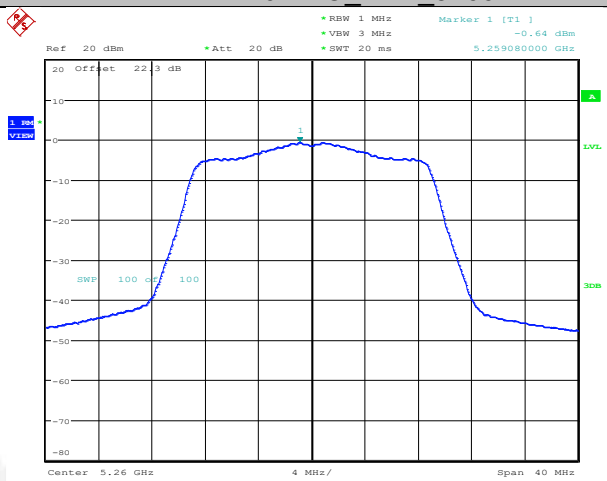

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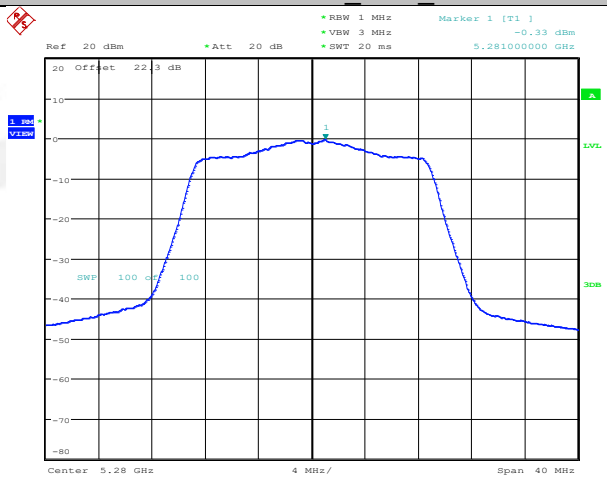

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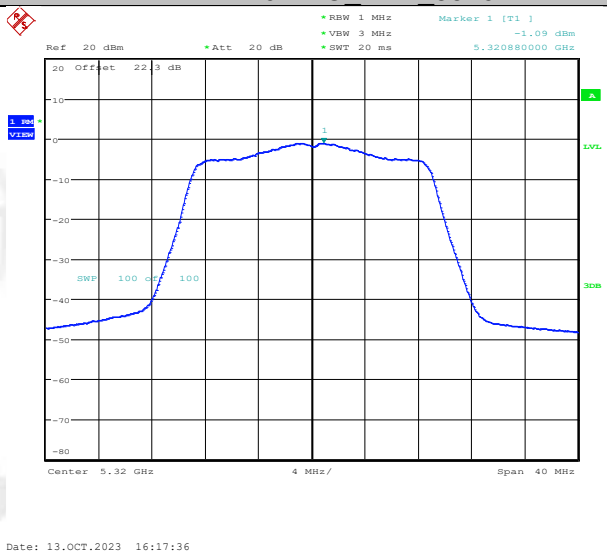

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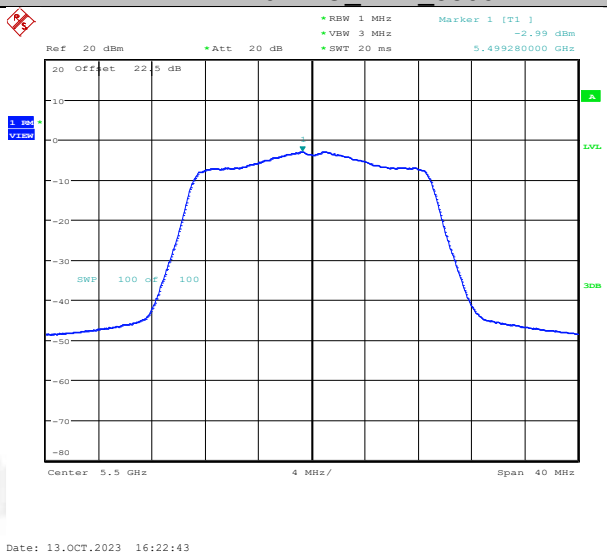

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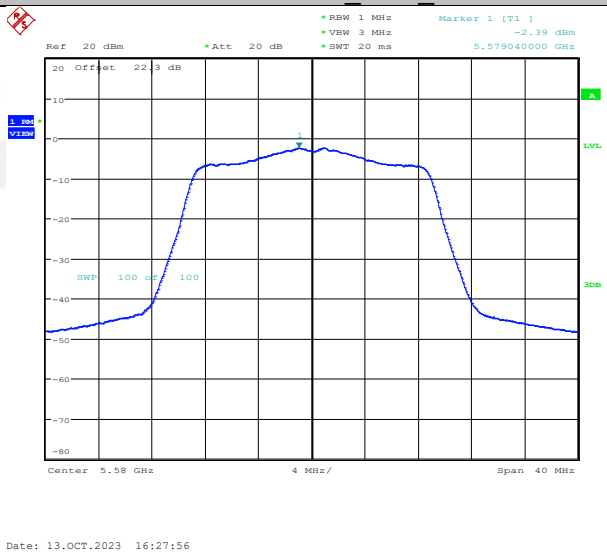

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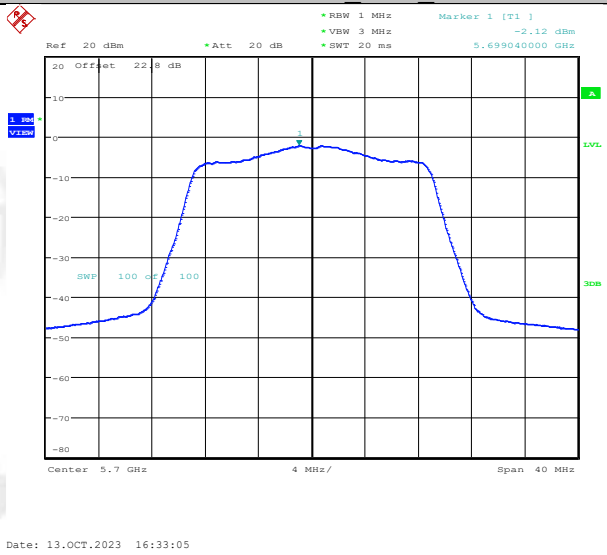

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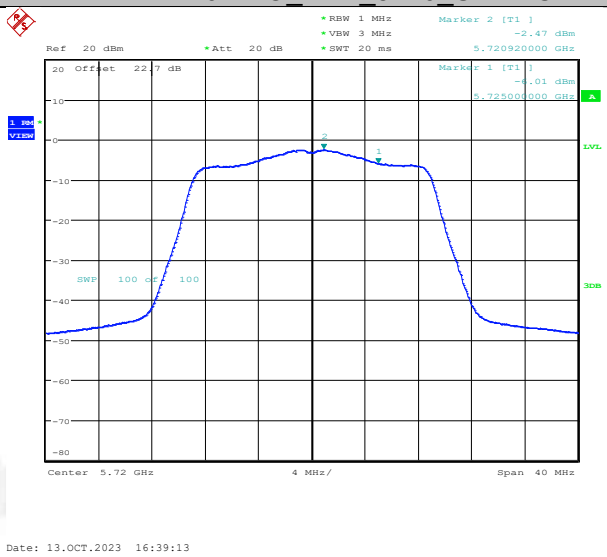

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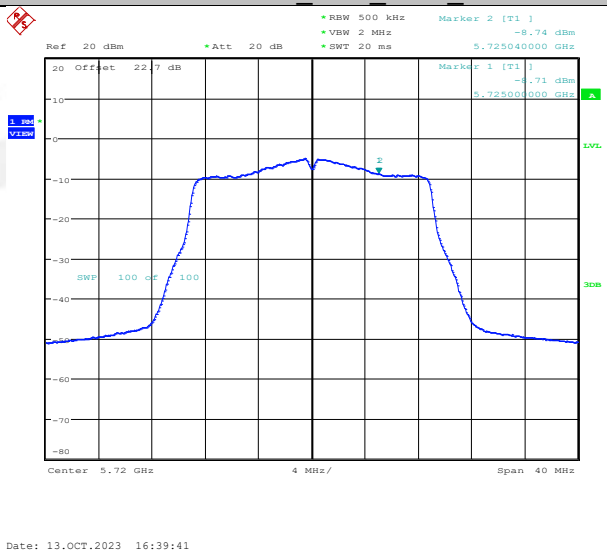

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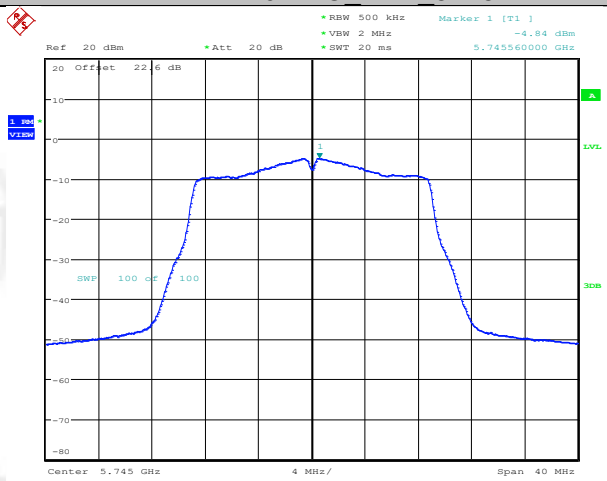

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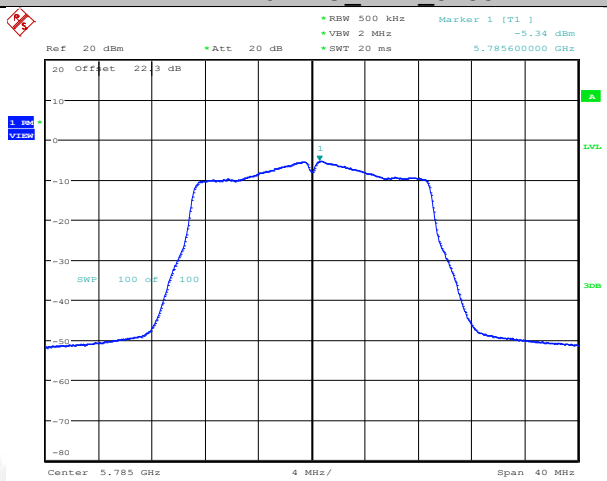

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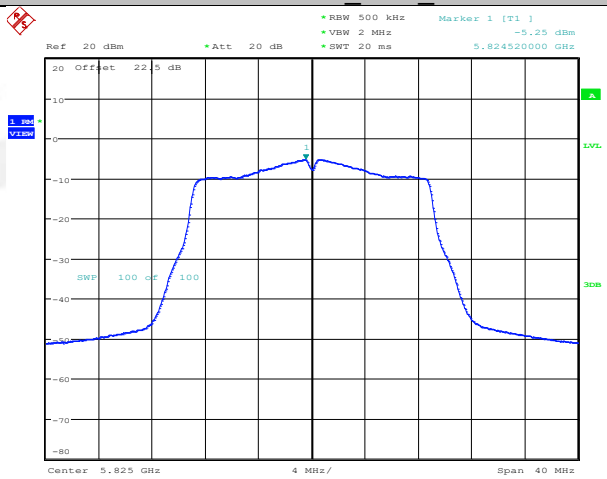

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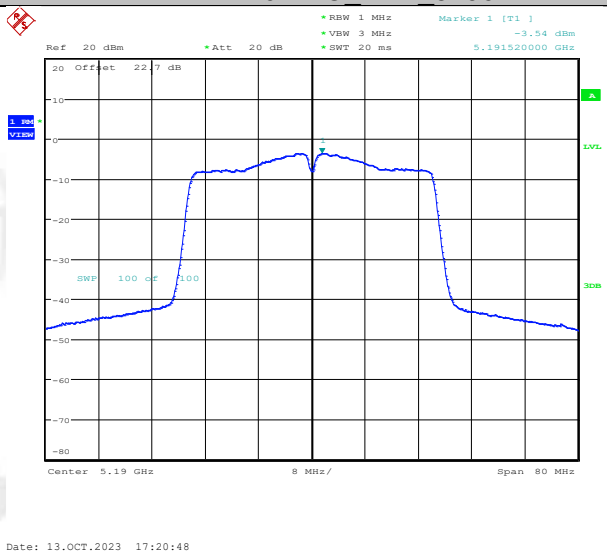

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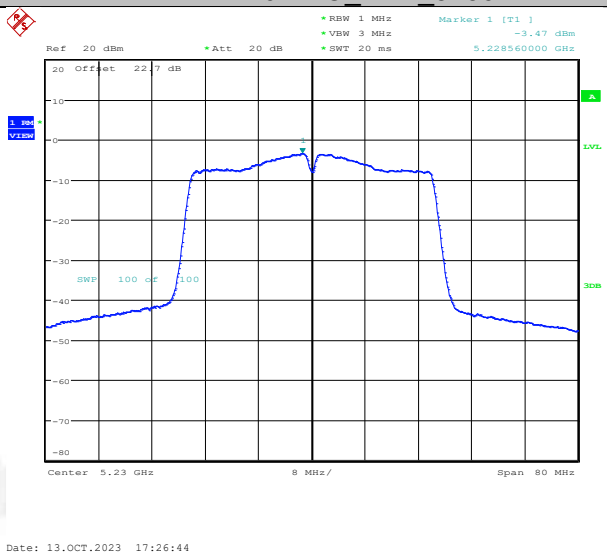

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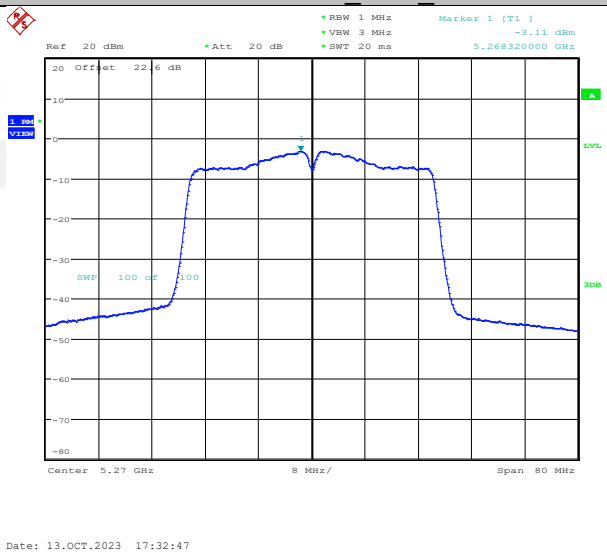

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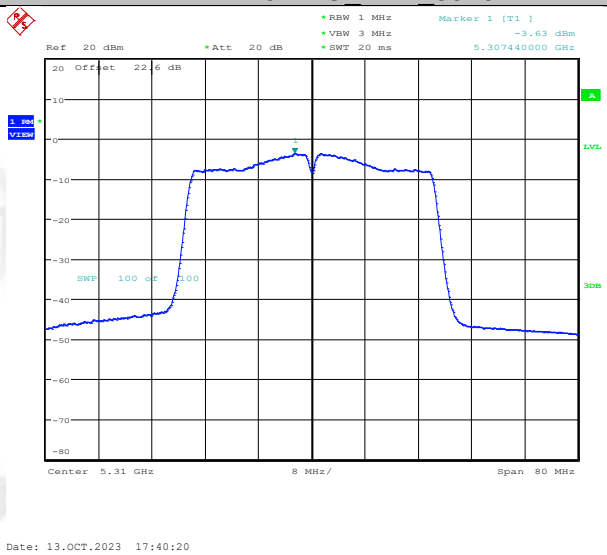

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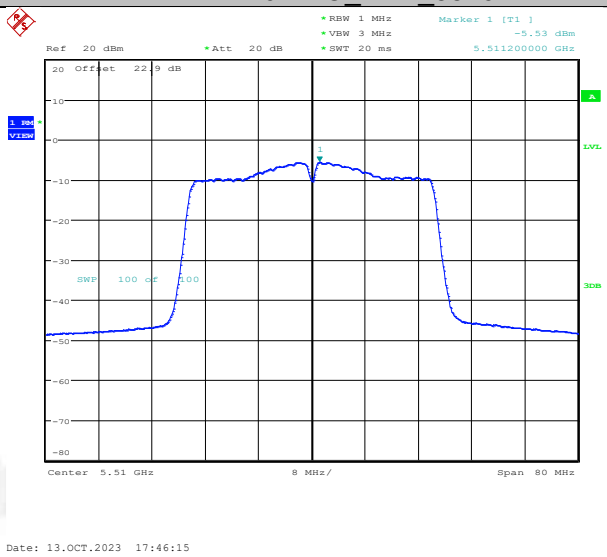

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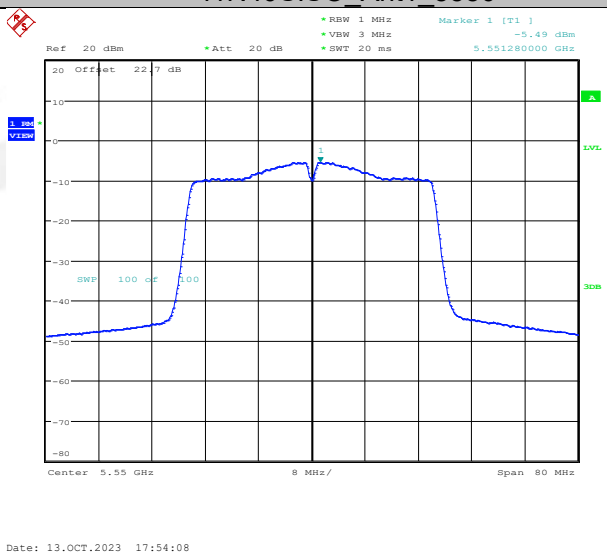

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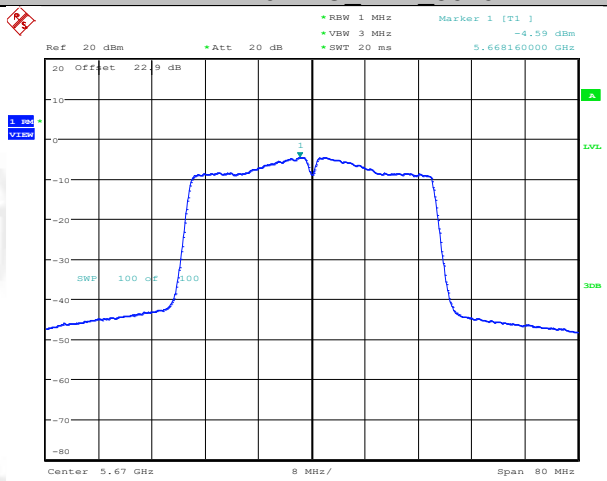

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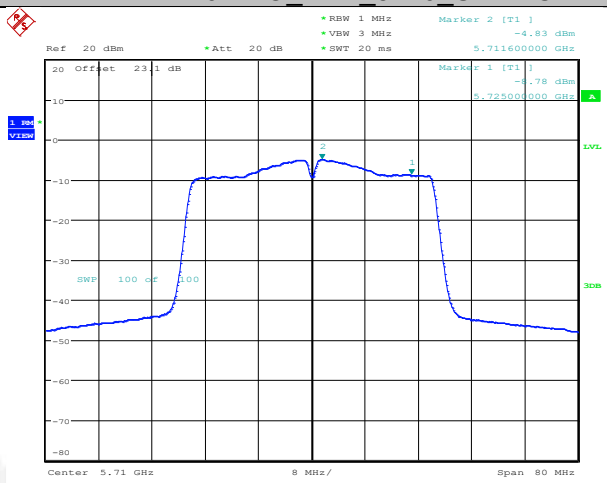

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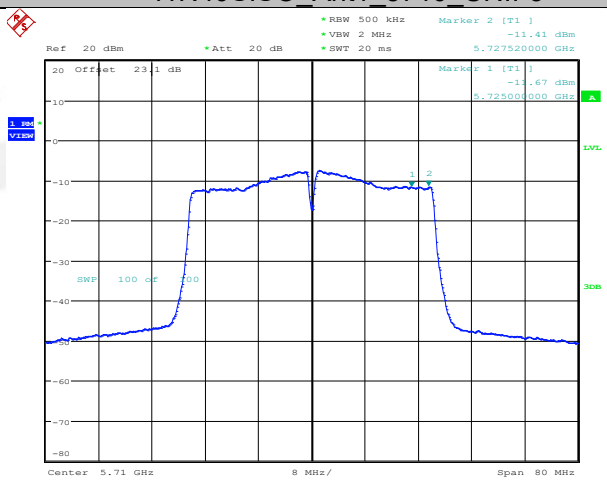

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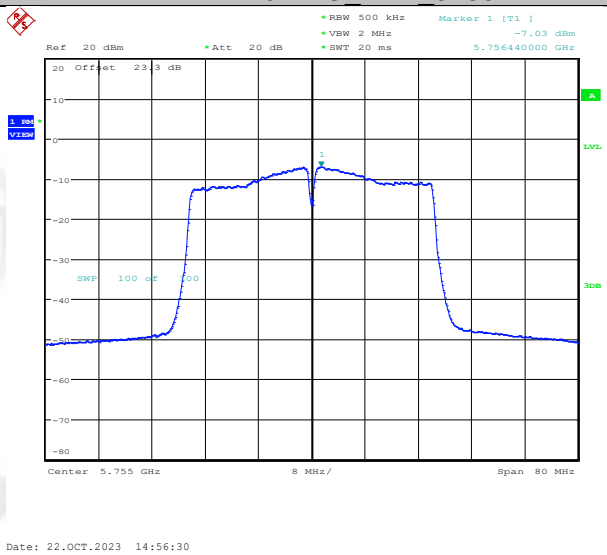

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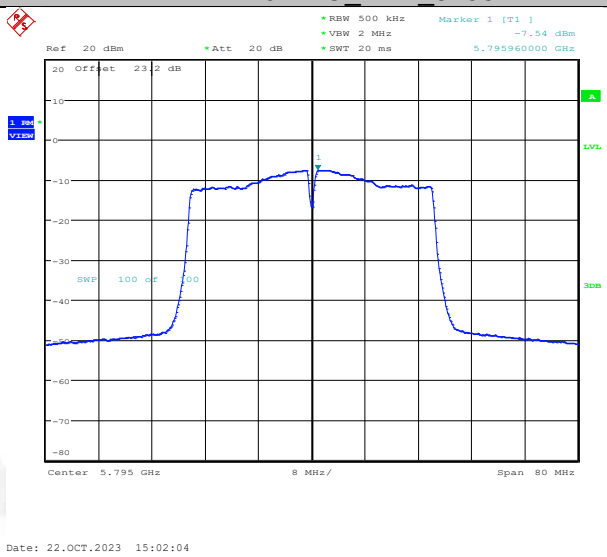

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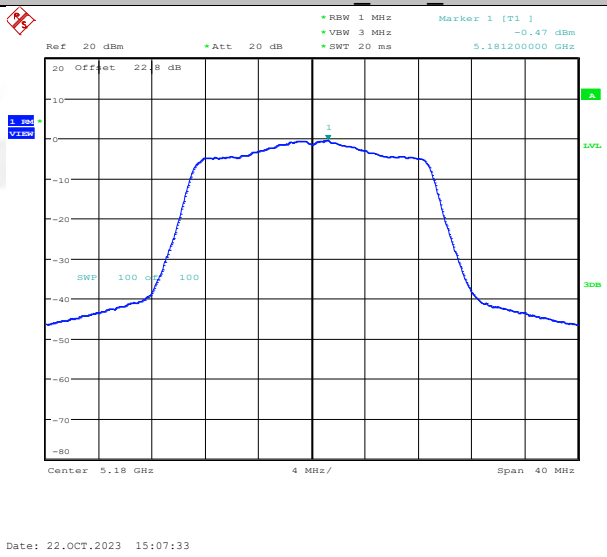

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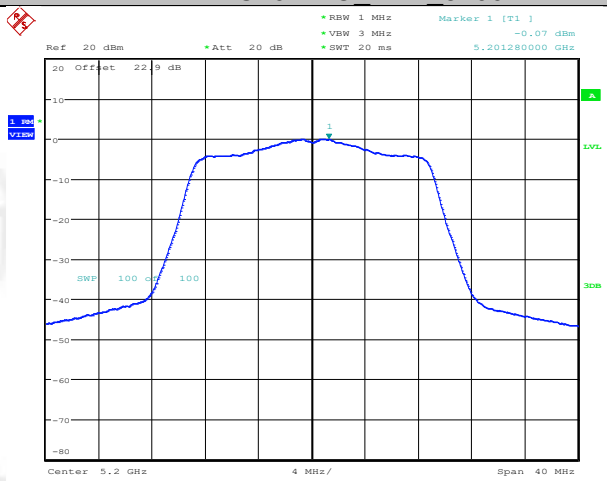

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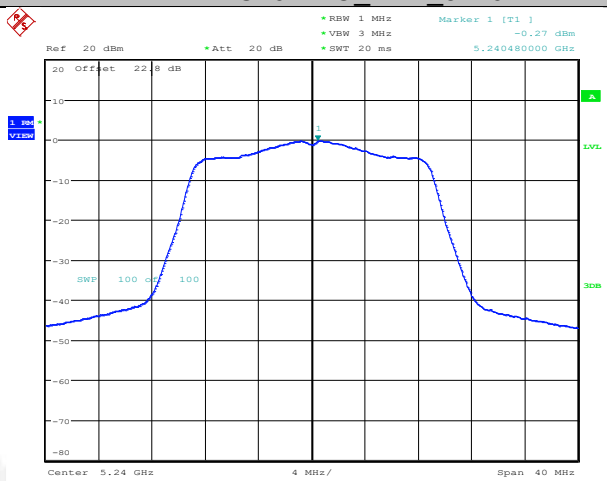

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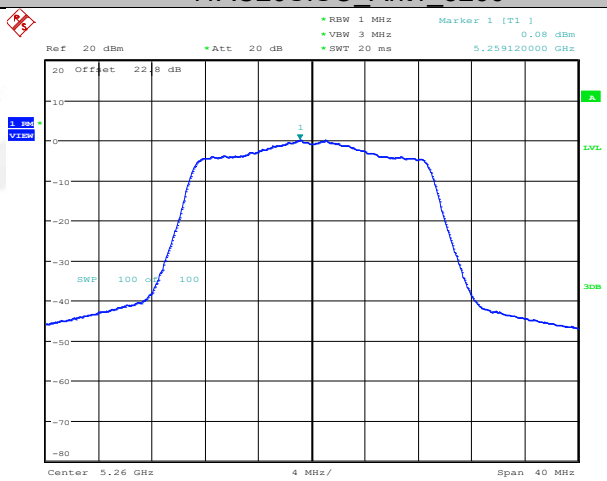

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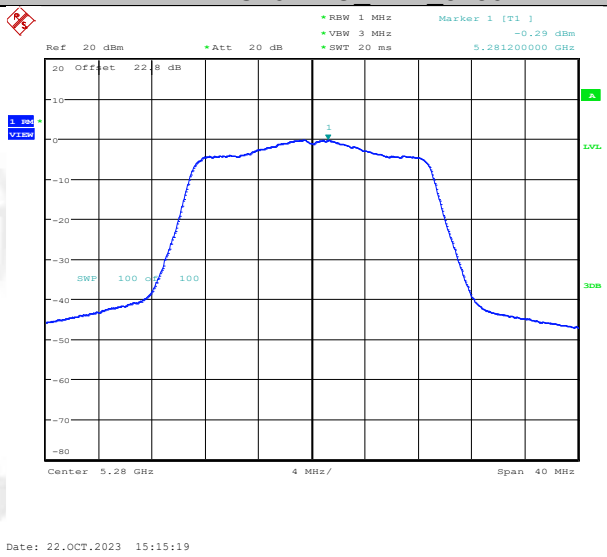

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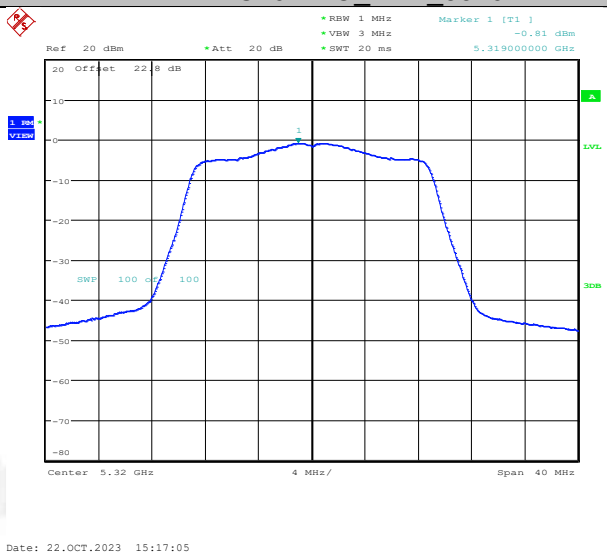

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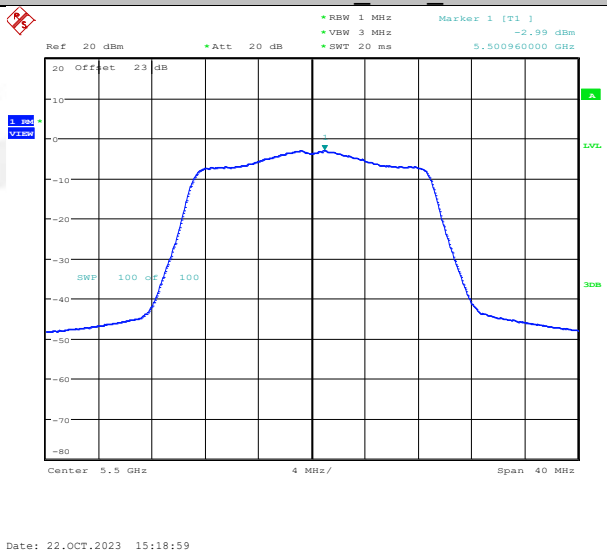

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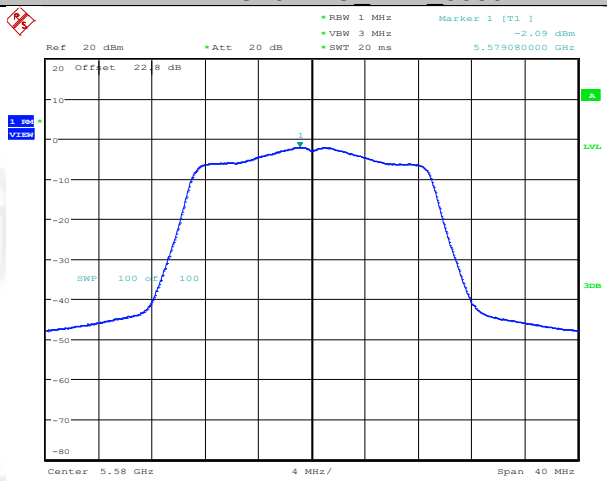

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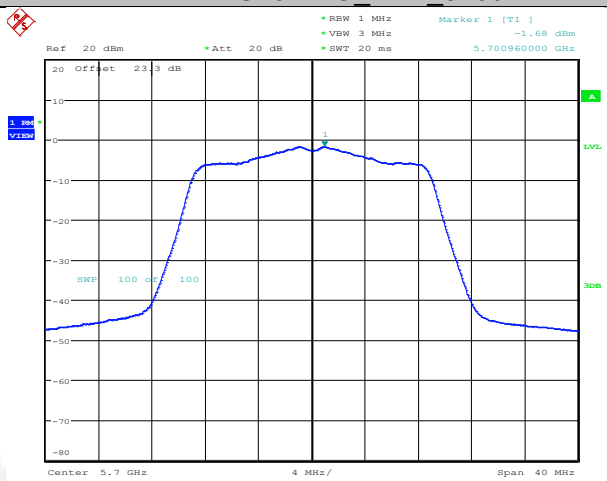

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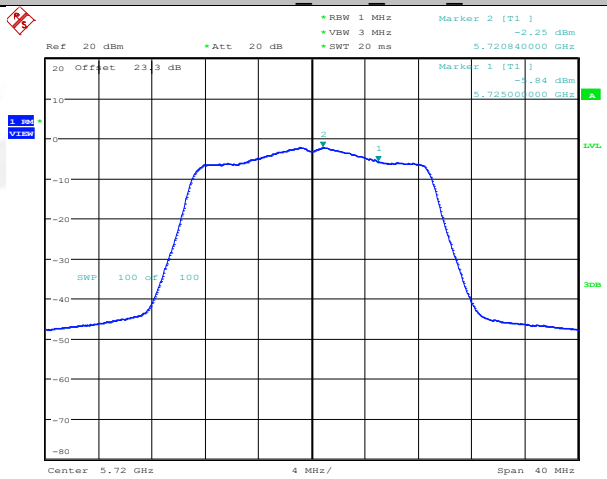

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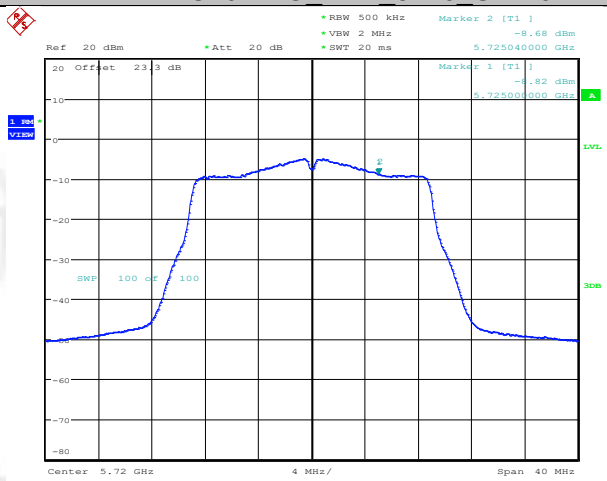

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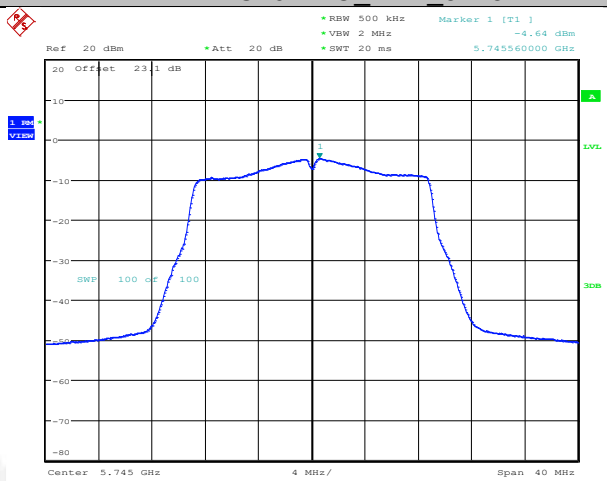

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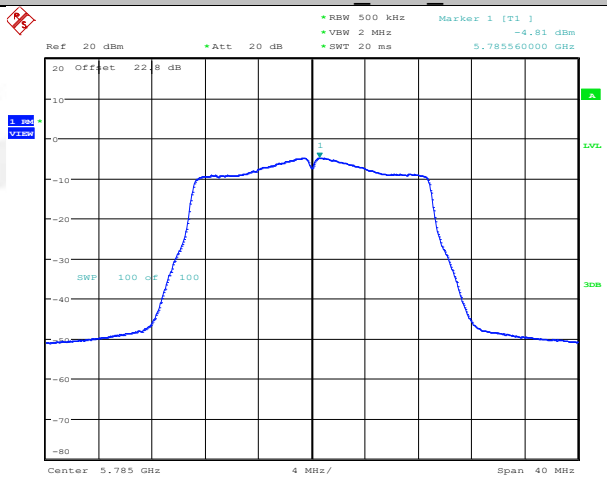

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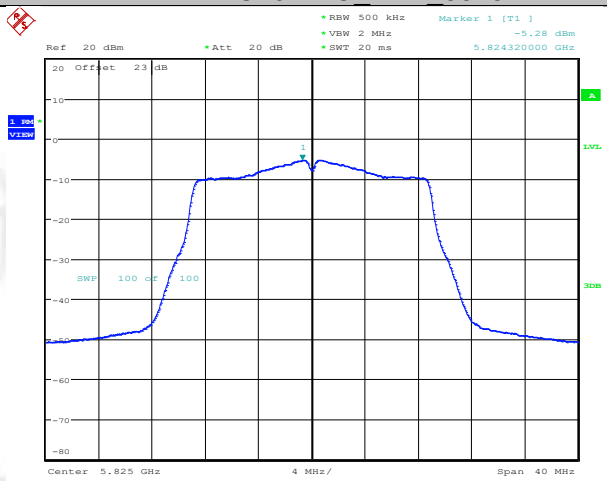

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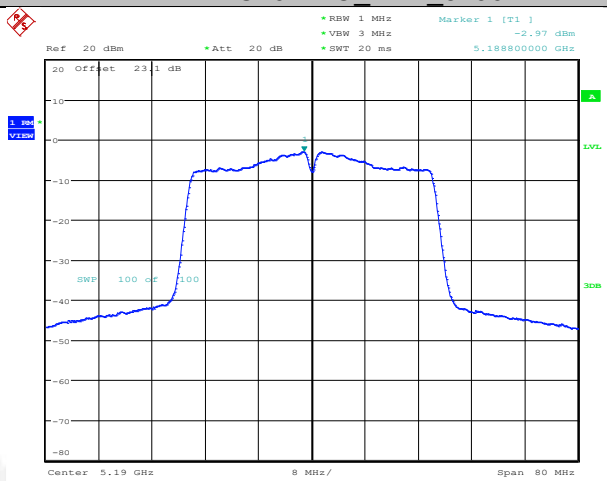

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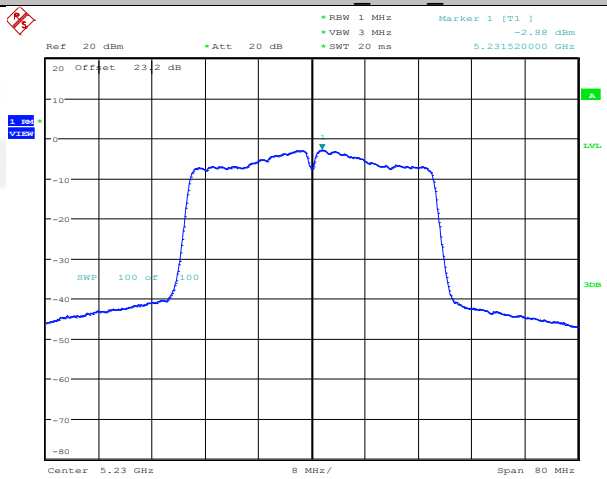

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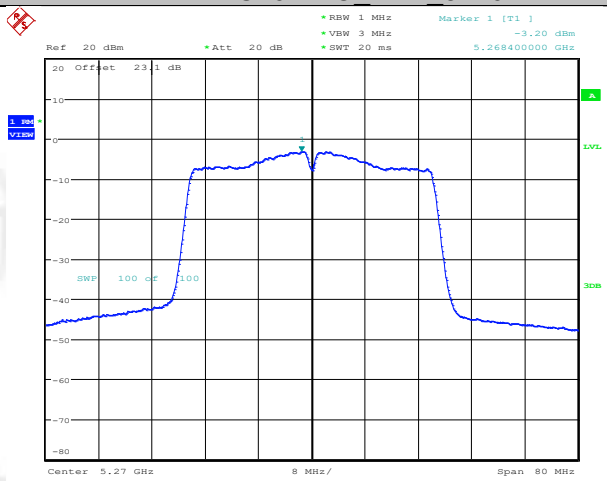

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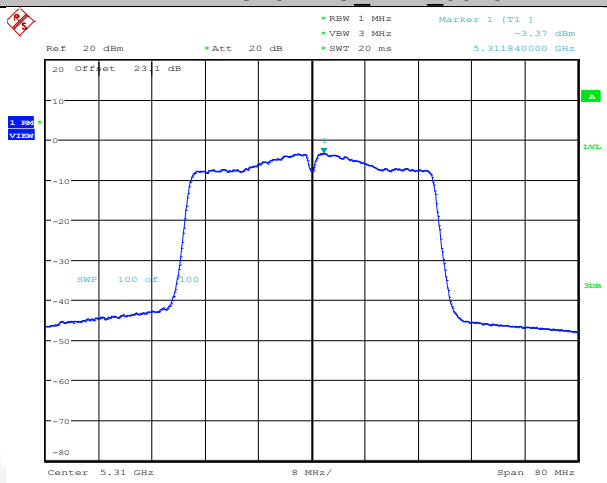

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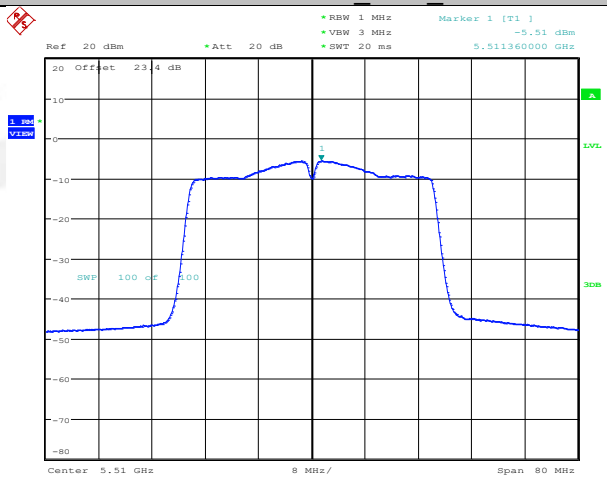

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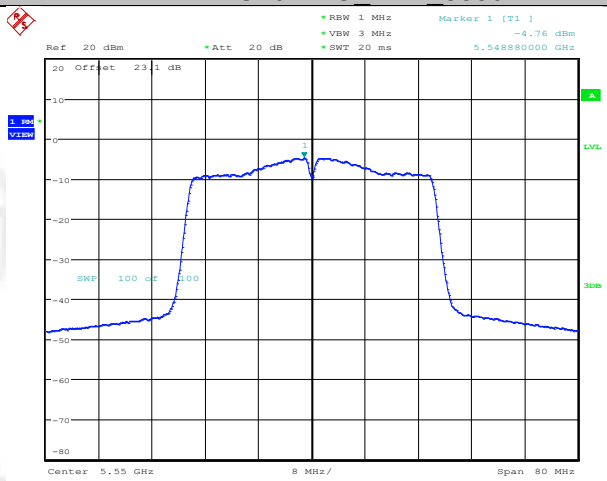

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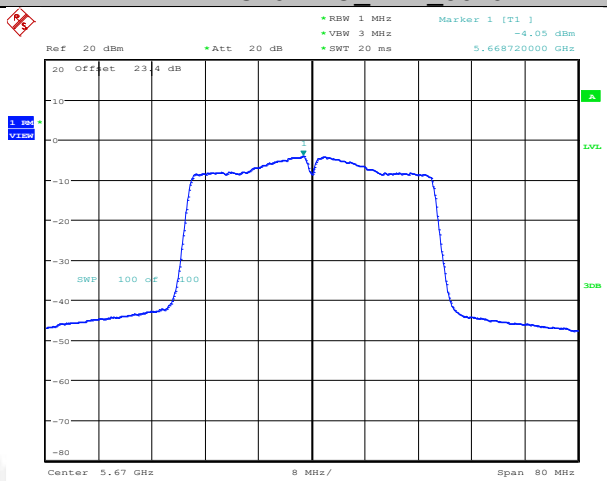

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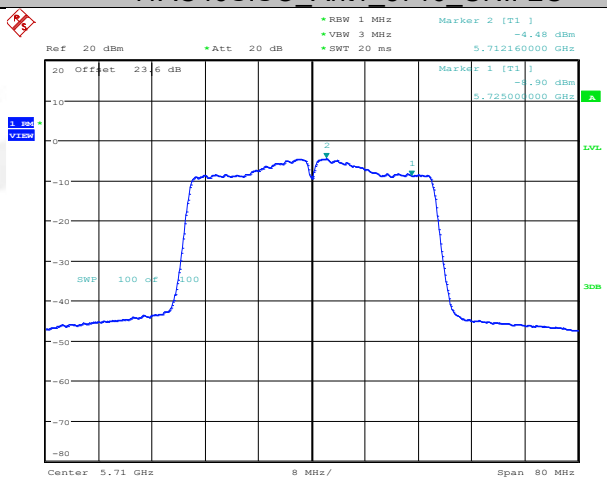

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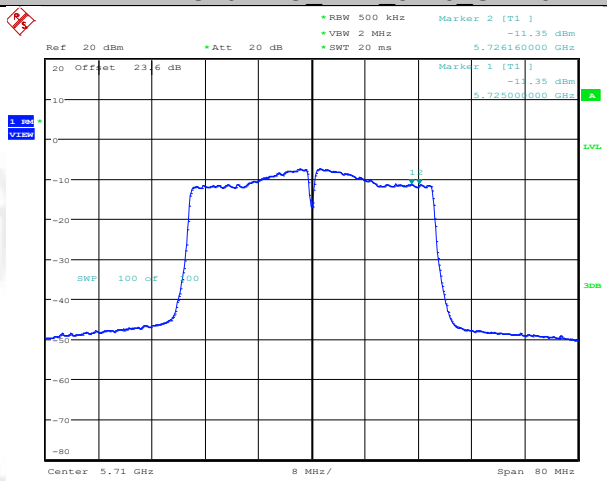

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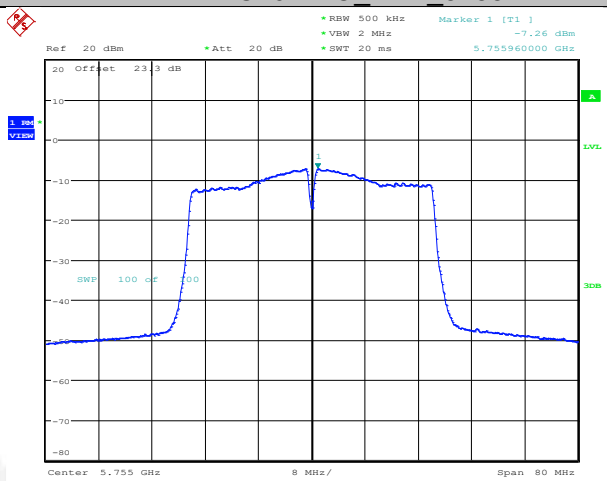

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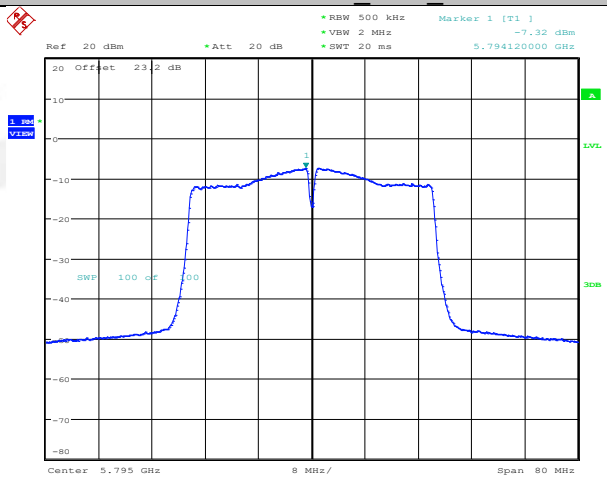

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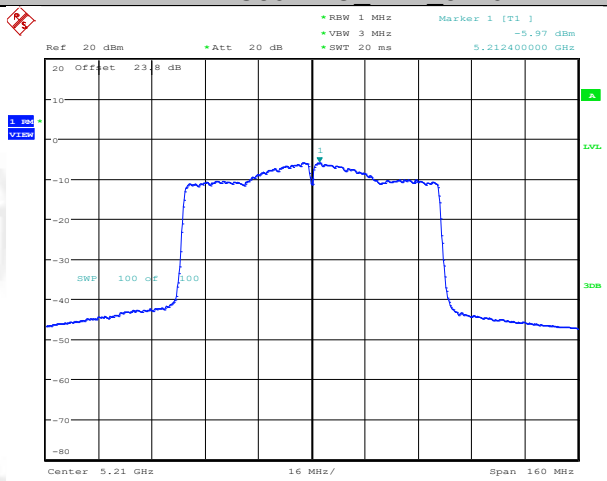

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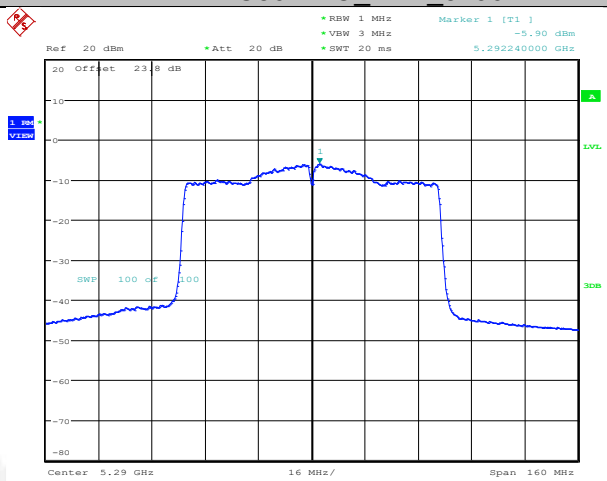

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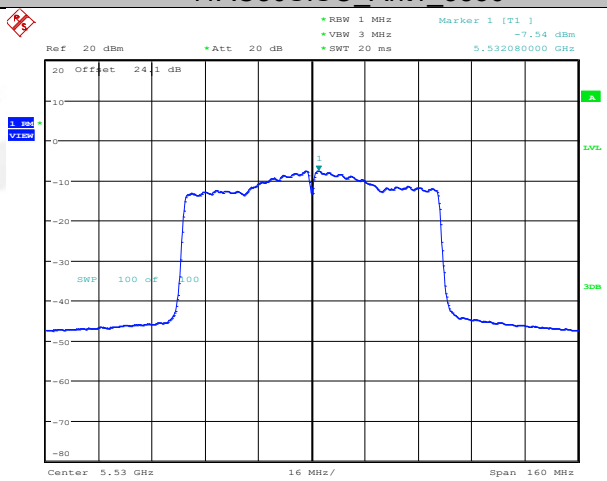

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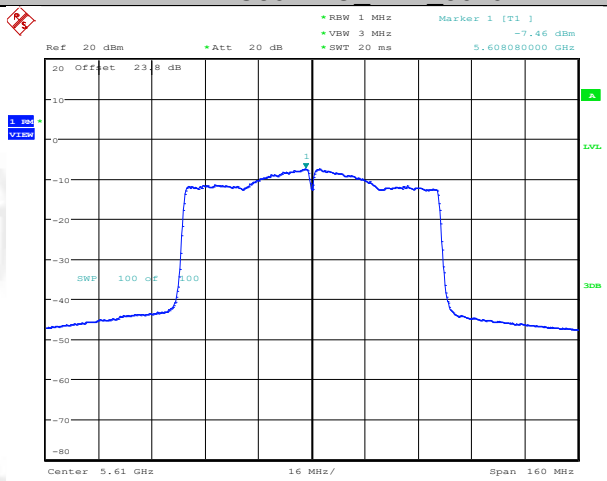

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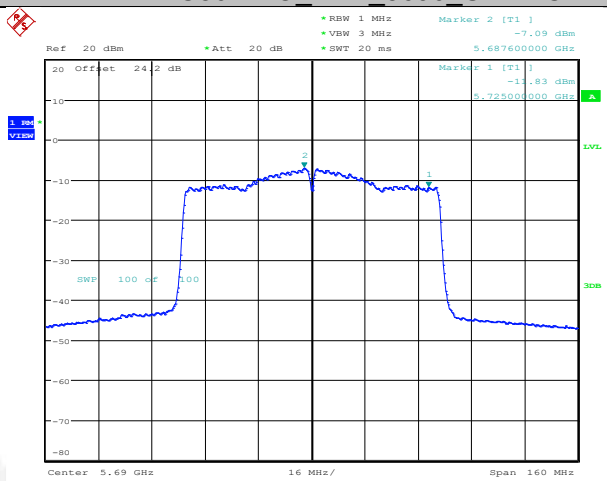

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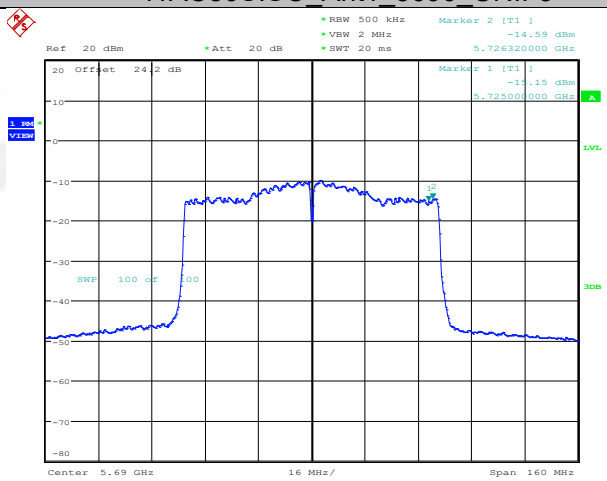

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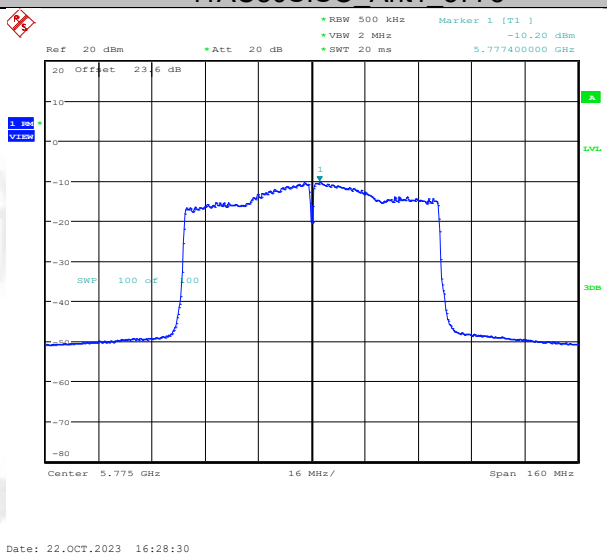


10. Frequency Stability Measurement

10.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

10.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

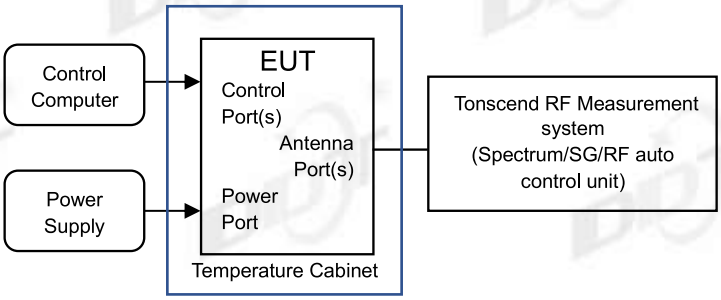
10.3. Test procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.

(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

10.4. Test setup



10.5. Test result

Test Site:	RF Measurement System 1#	Test Date:	2023.10.16-2023.10.23
Ambient Condition:	25.4℃, 46.5 %RH	Test Engineer:	Zora Zhang
Equipment under Test:	WiiM Amp	Model No.:	AMP001
Sample Number:	S23061614-04	Test Power Supply:	AC 230V

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
		5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
		5260	NV	NT	40000.00	7.604563	20	PASS
			LV	NT	20000.00	3.802281	20	PASS
			HV	NT	20000.00	3.802281	20	PASS
		5280	NV	NT	20000.00	3.787879	20	PASS
			LV	NT	20000.00	3.787879	20	PASS
			HV	NT	20000.00	3.787879	20	PASS
		5320	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5580	NV	NT	20000.00	3.584229	20	PASS
			LV	NT	20000.00	3.584229	20	PASS
			HV	NT	20000.00	3.584229	20	PASS
		5700	NV	NT	20000.00	3.508772	20	PASS
			LV	NT	20000.00	3.508772	20	PASS
			HV	NT	20000.00	3.508772	20	PASS
		5720	NV	NT	20000.00	3.496503	20	PASS
			LV	NT	20000.00	3.496503	20	PASS
			HV	NT	20000.00	3.496503	20	PASS
		5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS

		5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	40000.00	6.914434	20	PASS
		5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	40000.00	6.866953	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
11N20 SISO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
		5260	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5280	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.575758	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5320	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5500	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5580	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
		5700	NV	NT	20000.00	3.508772	20	PASS
			LV	NT	20000.00	3.508772	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5720	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.496503	20	PASS
			HV	NT	20000.00	3.496503	20	PASS
		5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS

		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40 SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5270	NV	NT	-40000.00	-7.590133	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5310	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5510	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5550	NV	NT	40000.00	7.207207	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5670	NV	NT	40000.00	7.054674	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5710	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.005254	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80 SISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

		5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5530	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5610	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5690	NV	NT	0.00	0.000000	20	PASS
			LV	NT	80000.00	14.059754	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.861004	20	PASS
		5200	NV	-30	20000.00	3.846154	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
			NV	50	20000.00	3.846154	20	PASS
		5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	20000.00	3.816794	20	PASS

			NV	0	20000.00	3.816794	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	20000.00	3.816794	20	PASS
			NV	50	20000.00	3.816794	20	PASS
		5260	NV	-30	20000.00	3.802281	20	PASS
			NV	-20	20000.00	3.802281	20	PASS
			NV	-10	20000.00	3.802281	20	PASS
			NV	0	20000.00	3.802281	20	PASS
			NV	10	20000.00	3.802281	20	PASS
			NV	20	20000.00	3.802281	20	PASS
			NV	30	20000.00	3.802281	20	PASS
			NV	40	20000.00	3.802281	20	PASS
			NV	50	20000.00	3.802281	20	PASS
		5280	NV	-30	20000.00	3.787879	20	PASS
			NV	-20	20000.00	3.787879	20	PASS
			NV	-10	40000.00	7.575758	20	PASS
			NV	0	40000.00	7.575758	20	PASS
			NV	10	20000.00	3.787879	20	PASS
			NV	20	20000.00	3.787879	20	PASS
			NV	30	20000.00	3.787879	20	PASS
			NV	40	20000.00	3.787879	20	PASS
			NV	50	20000.00	3.787879	20	PASS
		5320	NV	-30	-20000.00	-3.759398	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.759398	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.759398	20	PASS
		5580	NV	-30	20000.00	3.584229	20	PASS
			NV	-20	20000.00	3.584229	20	PASS
			NV	-10	20000.00	3.584229	20	PASS
			NV	0	20000.00	3.584229	20	PASS
			NV	10	20000.00	3.584229	20	PASS
			NV	20	20000.00	3.584229	20	PASS

			NV	30	20000.00	3.584229	20	PASS
			NV	40	20000.00	3.584229	20	PASS
			NV	50	20000.00	3.584229	20	PASS
		5700	NV	-30	20000.00	3.508772	20	PASS
			NV	-20	20000.00	3.508772	20	PASS
			NV	-10	20000.00	3.508772	20	PASS
			NV	0	20000.00	3.508772	20	PASS
			NV	10	20000.00	3.508772	20	PASS
			NV	20	20000.00	3.508772	20	PASS
			NV	30	20000.00	3.508772	20	PASS
			NV	40	20000.00	3.508772	20	PASS
			NV	50	20000.00	3.508772	20	PASS
		5720	NV	-30	20000.00	3.496503	20	PASS
			NV	-20	20000.00	3.496503	20	PASS
			NV	-10	20000.00	3.496503	20	PASS
			NV	0	20000.00	3.496503	20	PASS
			NV	10	40000.00	6.993007	20	PASS
			NV	20	20000.00	3.496503	20	PASS
			NV	30	40000.00	6.993007	20	PASS
			NV	40	20000.00	3.496503	20	PASS
			NV	50	40000.00	6.993007	20	PASS
		5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	20000.00	3.481288	20	PASS
		5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	40000.00	6.914434	20	PASS

		5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	40000.00	6.866953	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	40000.00	6.866953	20	PASS
11N20SISO	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5200	NV	-30	20000.00	3.846154	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5260	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.802281	20	PASS

			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.802281	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.802281	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5280	NV	-30	20000.00	3.787879	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.787879	20	PASS
			NV	10	20000.00	3.787879	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.787879	20	PASS
		5320	NV	-30	20000.00	3.759398	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.759398	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	-20000.00	-3.759398	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5500	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.636364	20	PASS
			NV	10	20000.00	3.636364	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5580	NV	-30	20000.00	3.584229	20	PASS
			NV	-20	20000.00	3.584229	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.584229	20	PASS

			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.584229	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5700	NV	-30	20000.00	3.508772	20	PASS
			NV	-20	-20000.00	-3.508772	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.508772	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.508772	20	PASS
		5720	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.496503	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.993007	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

		5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5270	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.590133	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.590133	20	PASS
			NV	30	40000.00	7.590133	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5310	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.532957	20	PASS
			NV	-10	40000.00	7.532957	20	PASS

			NV	0	40000.00	7.532957	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.532957	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5510	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.259528	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.259528	20	PASS
		5550	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.207207	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5670	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.054674	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5710	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.005254	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.005254	20	PASS

			NV	30	40000.00	7.005254	20	PASS
			NV	40	40000.00	7.005254	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.902502	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.902502	20	PASS
11AC80SISO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5290	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

		5530	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	80000.00	14.466546	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5610	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5690	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

11. Dynamic Frequency Selection

11.1. Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐Master	☒Client Without Radar Detection	☐Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐Master Device or Client with Radar Detection	☒Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐Master Device or Client with Radar Detection	☒Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		