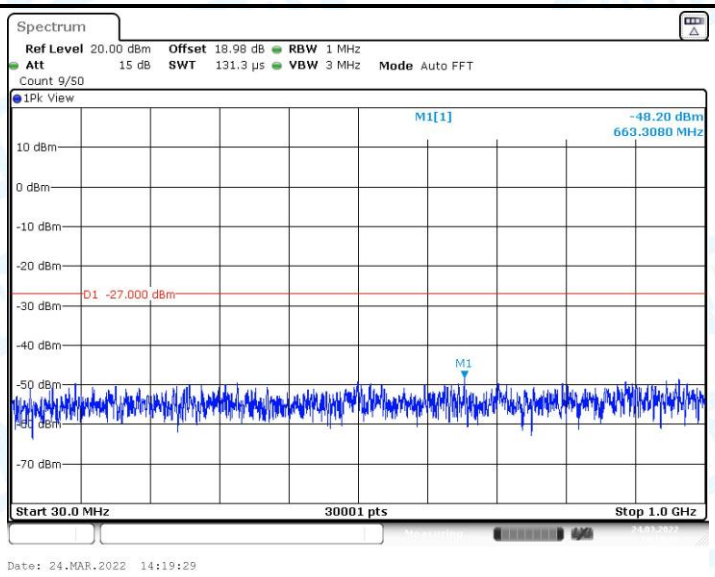
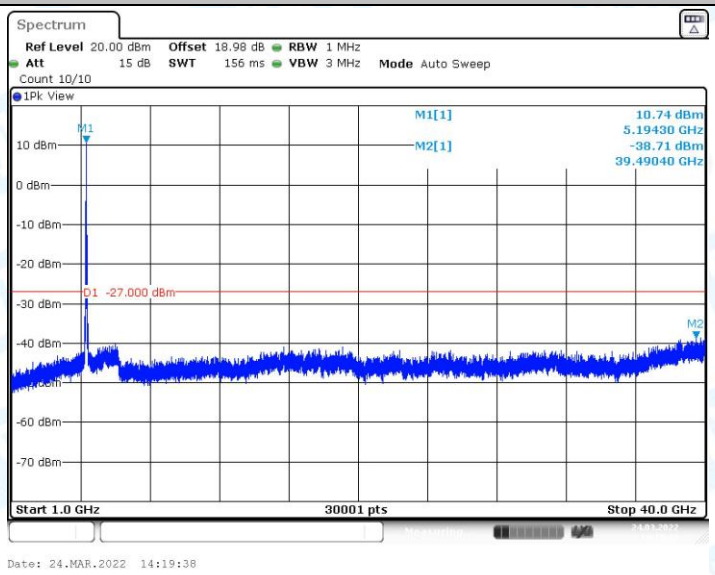
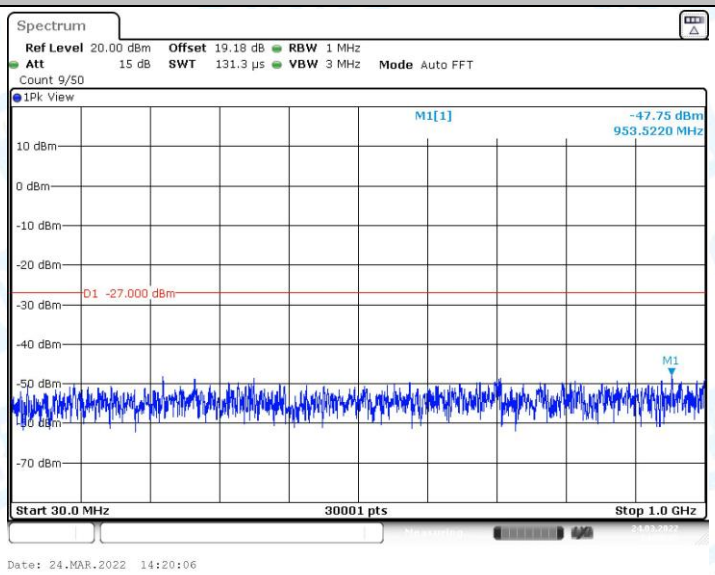


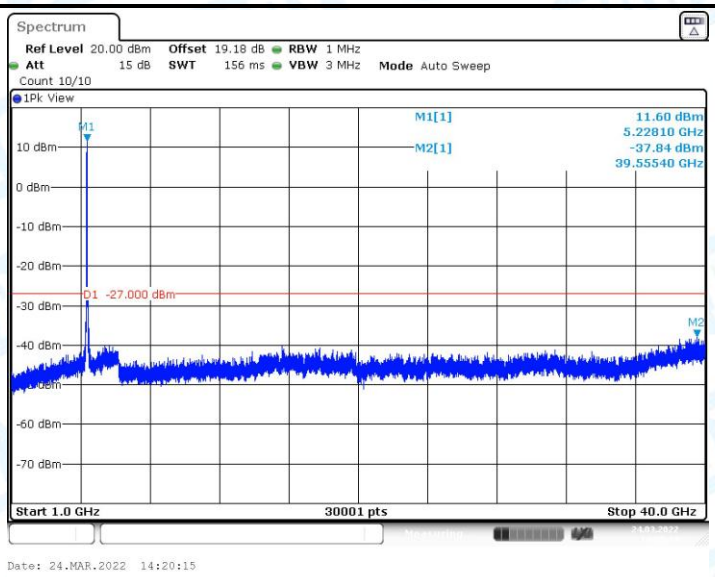
11N40SISO_Ant1_5190_30~1000



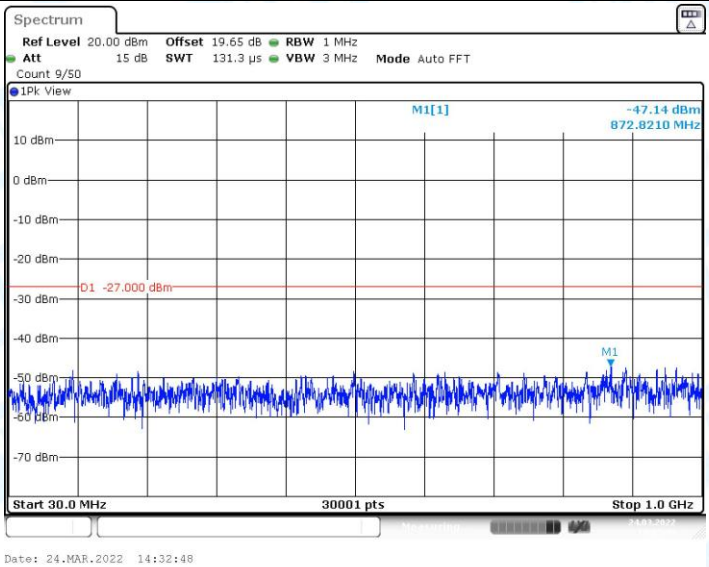
11N40SISO_Ant1_5190_1000~40000



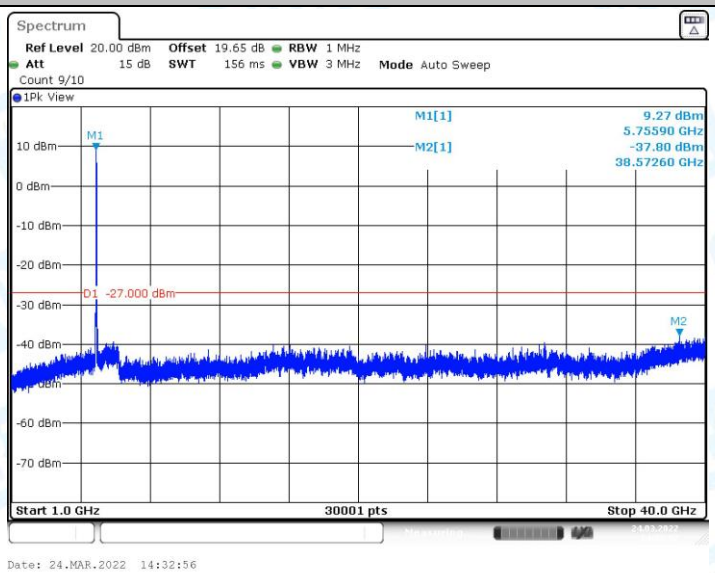
11N40SISO_Ant1_5230_30~1000



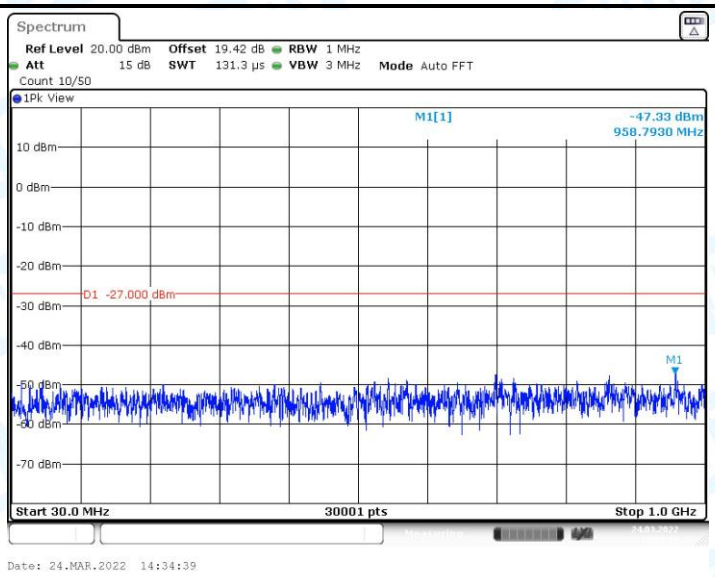
11N40SISO_Ant1_5230_1000~40000



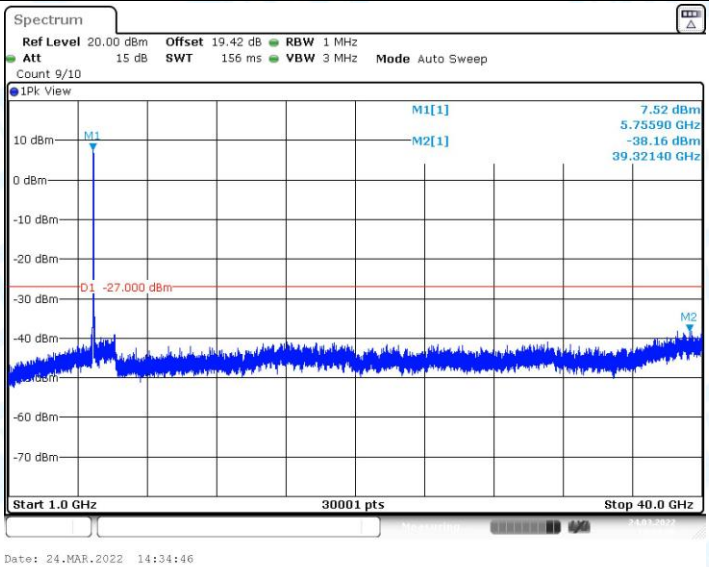
11N40SISO_Ant1_5755_30~1000



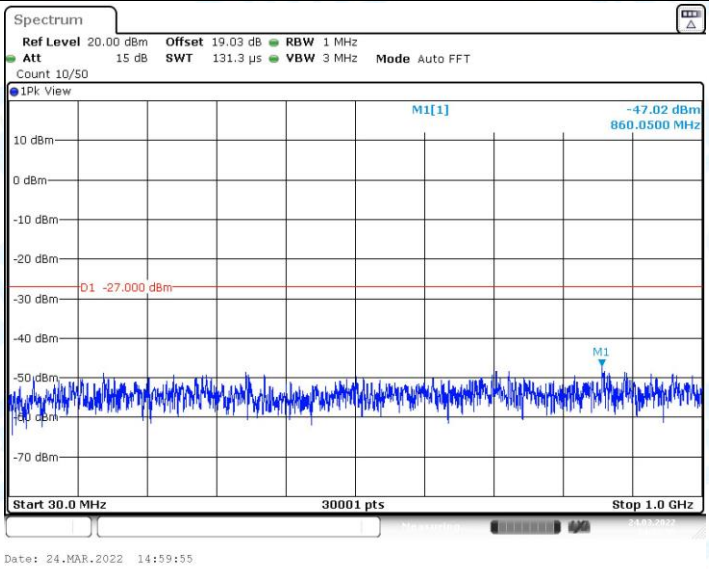
11N40SISO_Ant1_5755_1000~40000



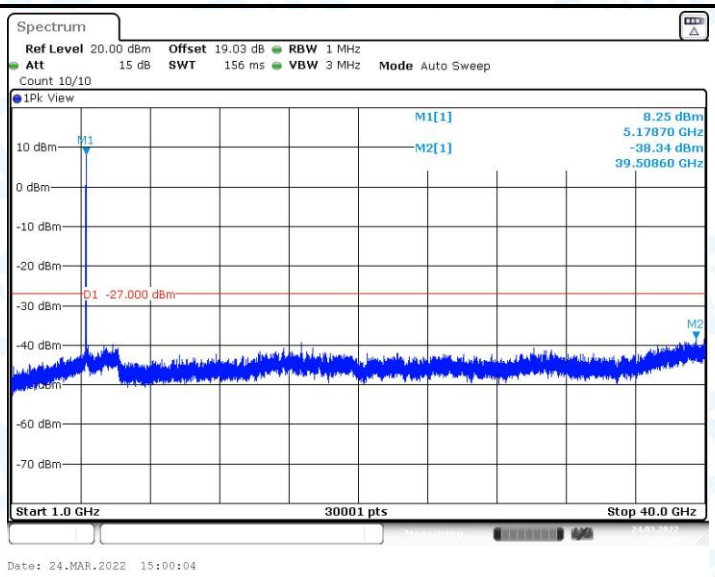
11N40SISO_Ant1_5795_30~1000



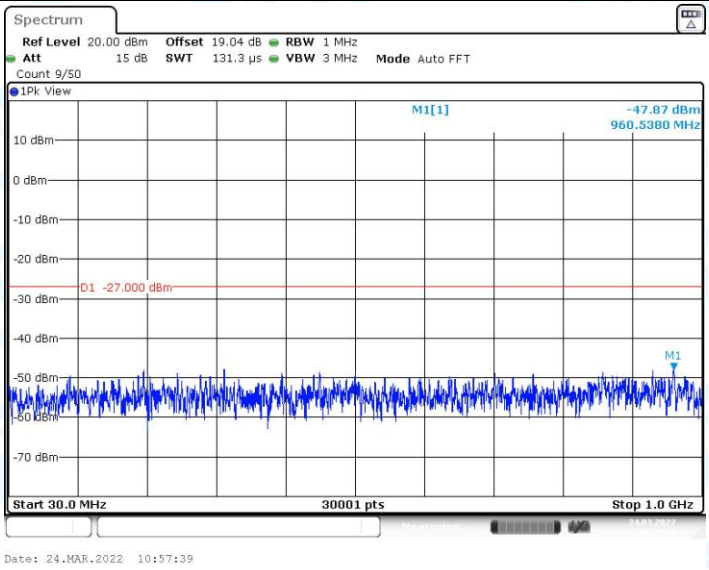
11N40SISO_Ant1_5795_1000~40000



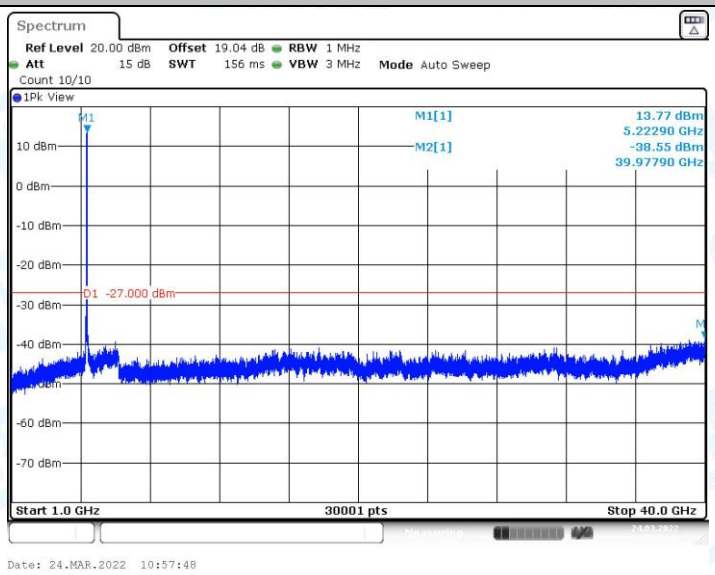
11AC20SISO_Ant1_5180_30~1000



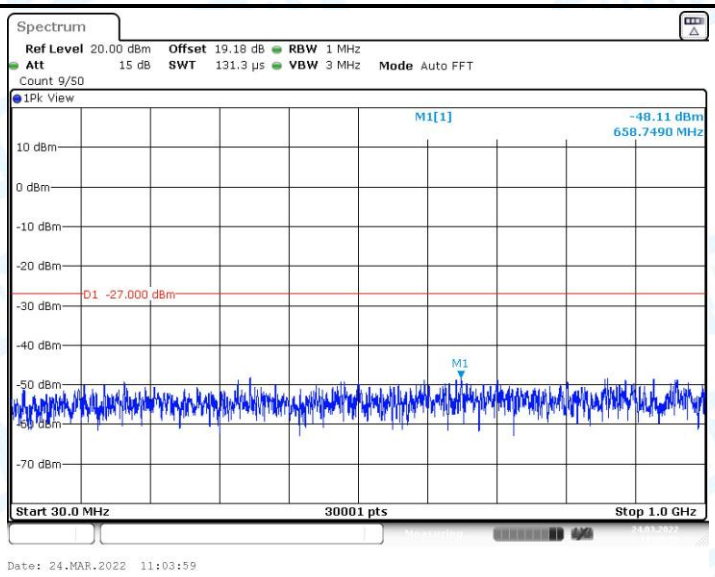
11AC20SISO_Ant1_5180_1000~40000



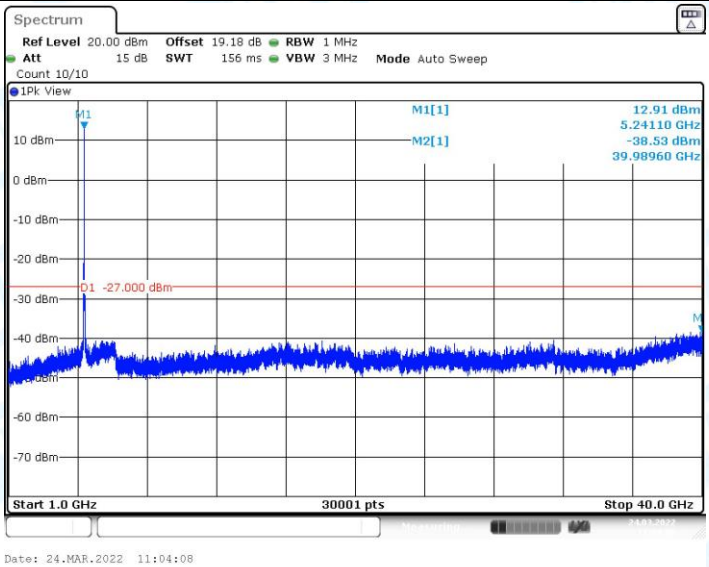
11AC20SISO_Ant1_5220_30~1000



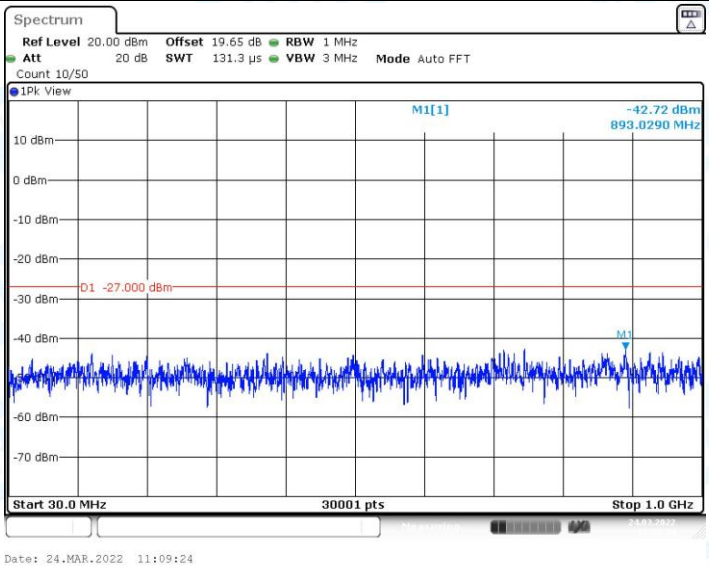
11AC20SISO_Ant1_5220_1000~40000



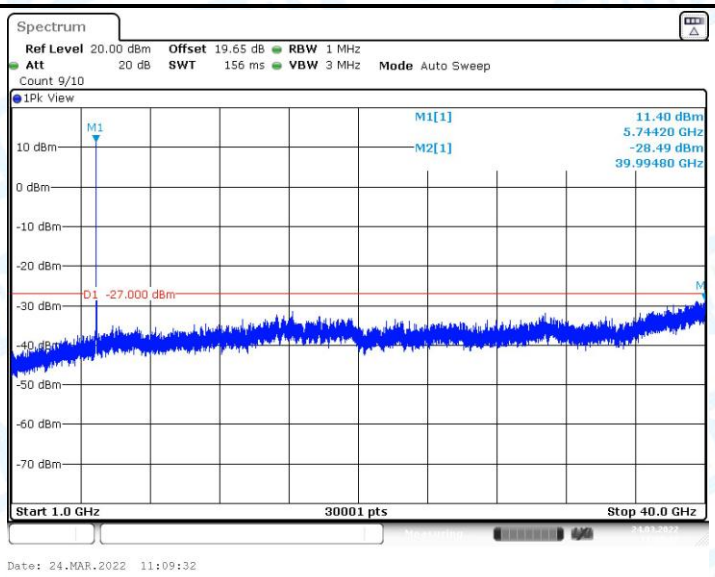
11AC20SISO_Ant1_5240_30~1000



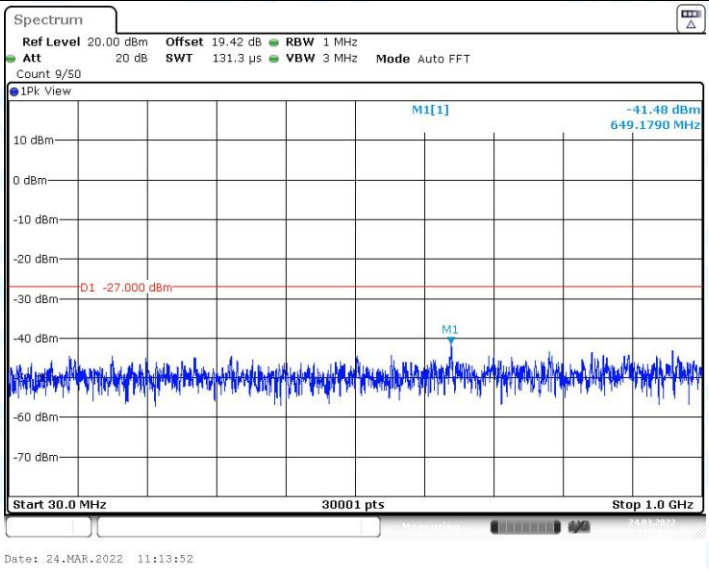
11AC20SISO_Ant1_5240_1000~40000



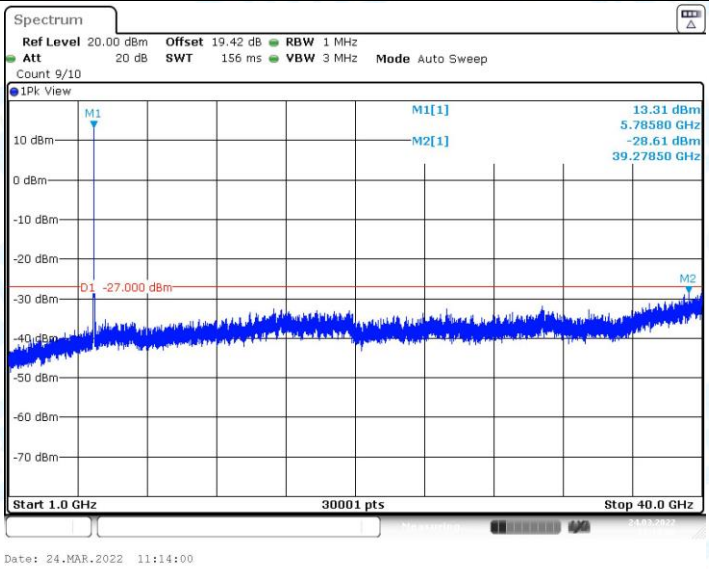
11AC20SISO_Ant1_5745_30~1000



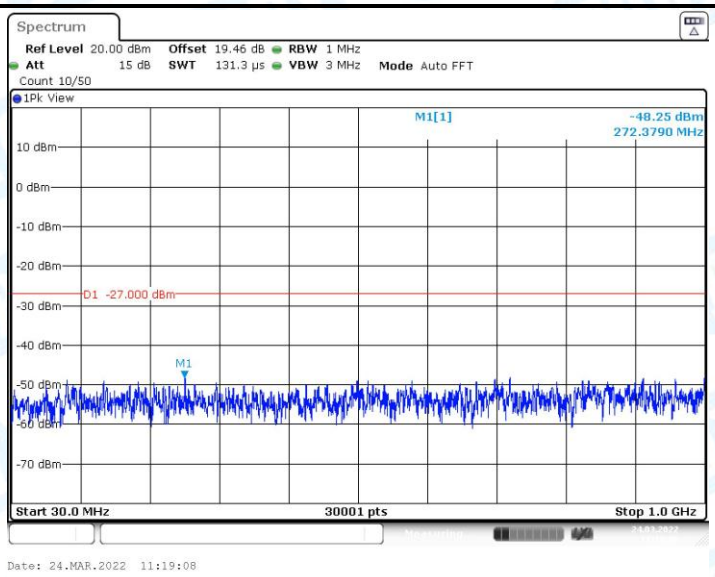
11AC20SISO_Ant1_5745_1000~40000



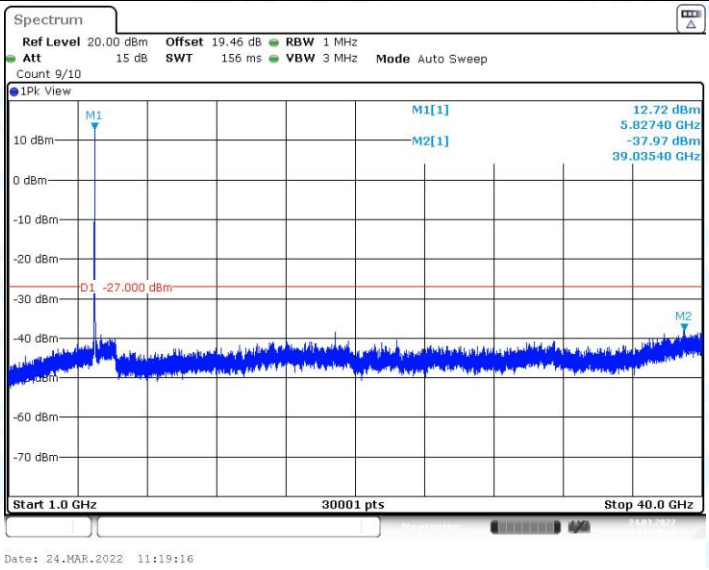
11AC20SISO_Ant1_5785_30~1000



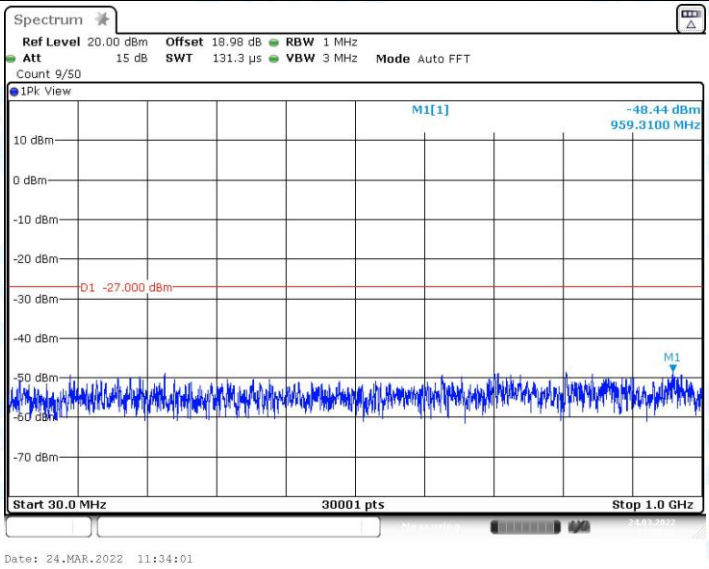
11AC20SISO_Ant1_5785_1000~40000



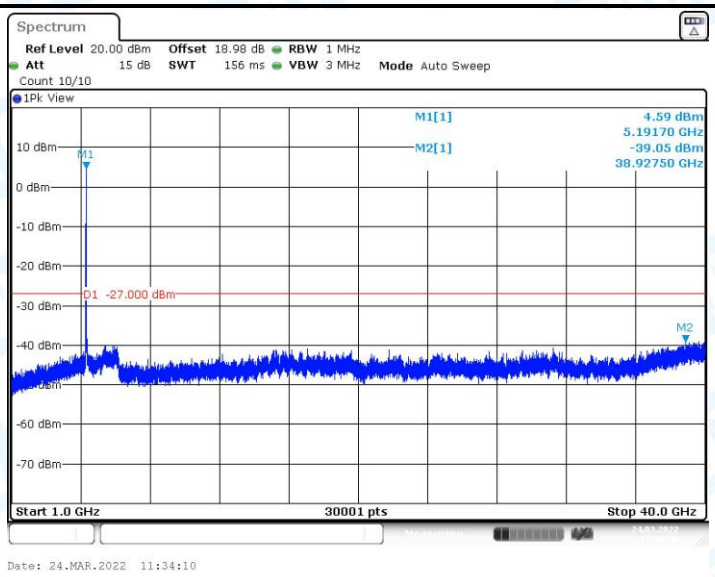
11AC20SISO_Ant1_5825_30~1000



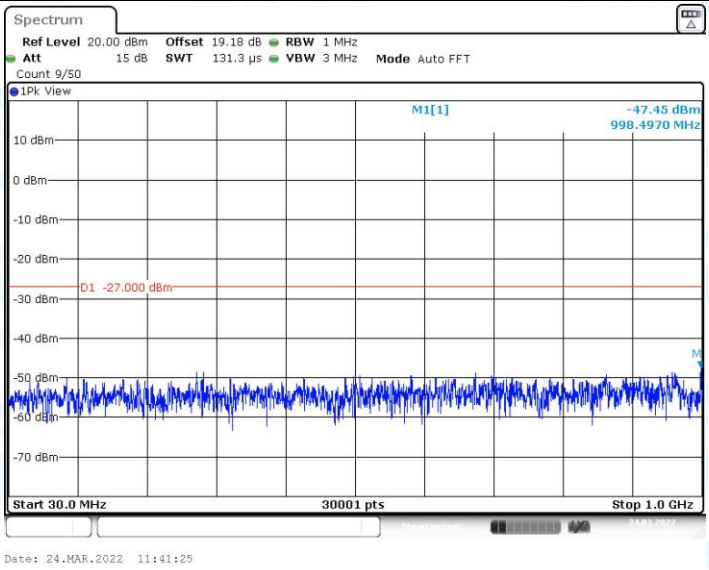
11AC20SISO_Ant1_5825_1000~40000



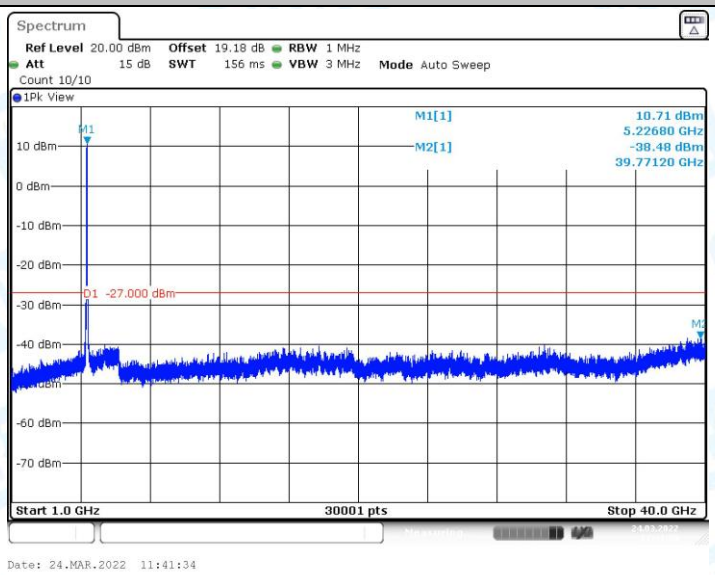
11AC40SISO_Ant1_5190_30~1000



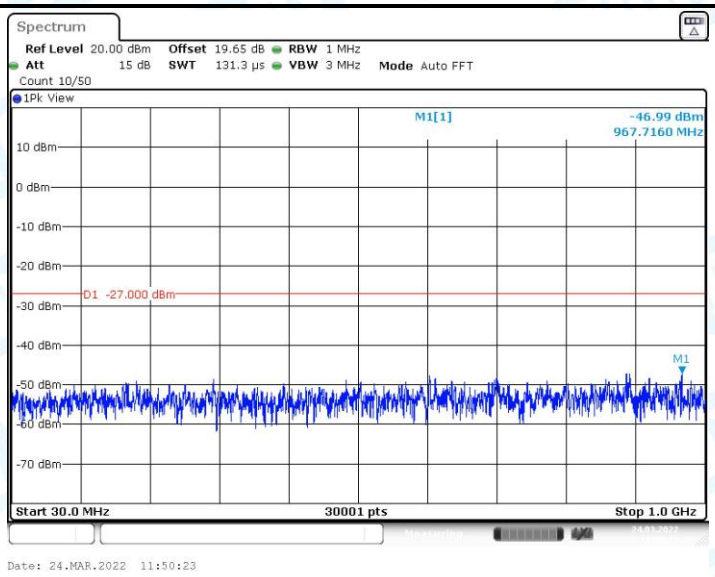
11AC40SISO_Ant1_5190_1000~40000



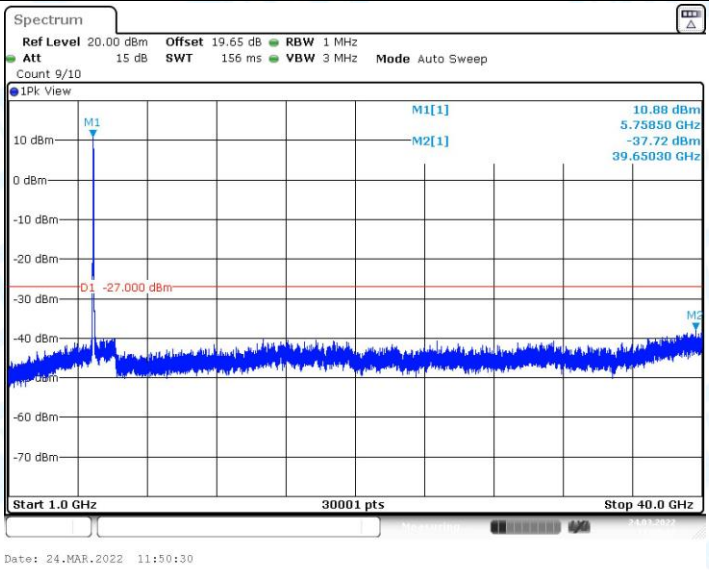
11AC40SISO_Ant1_5230_30~1000



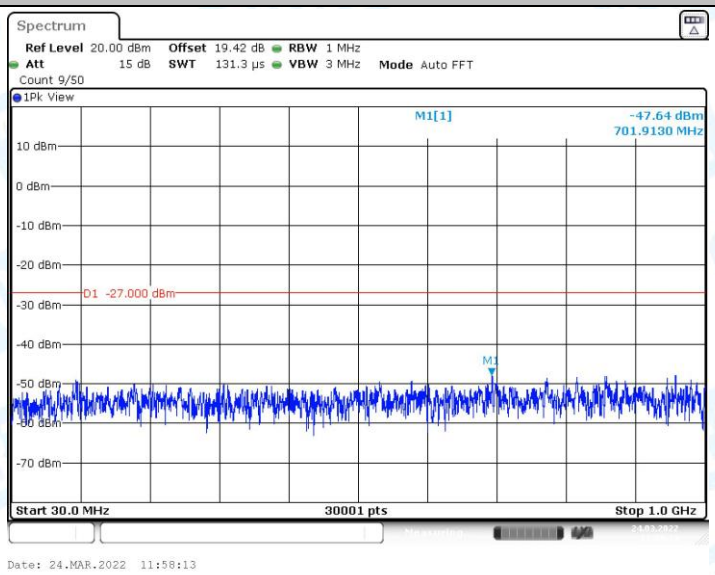
11AC40SISO_Ant1_5230_1000~40000



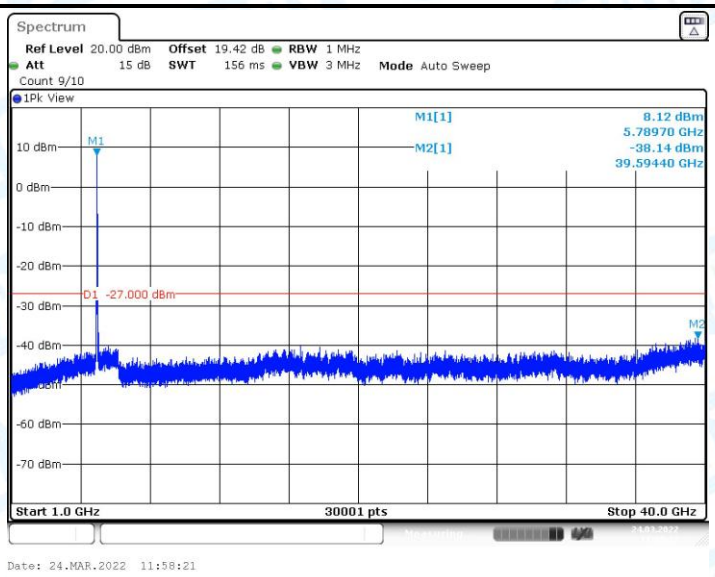
11AC40SISO_Ant1_5755_30~1000



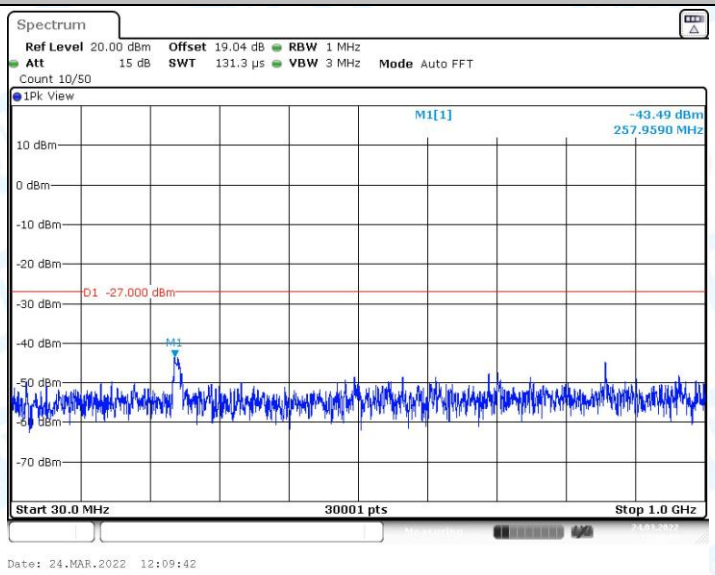
11AC40SISO_Ant1_5755_1000~40000



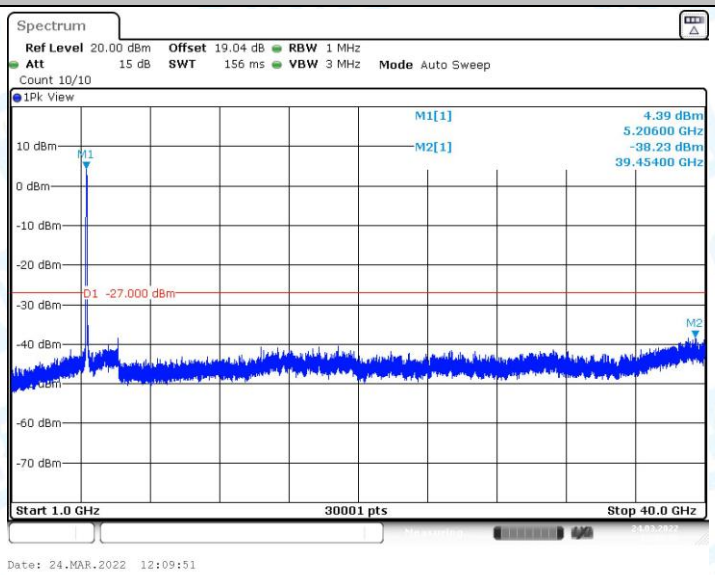
11AC40SISO_Ant1_5795_30~1000



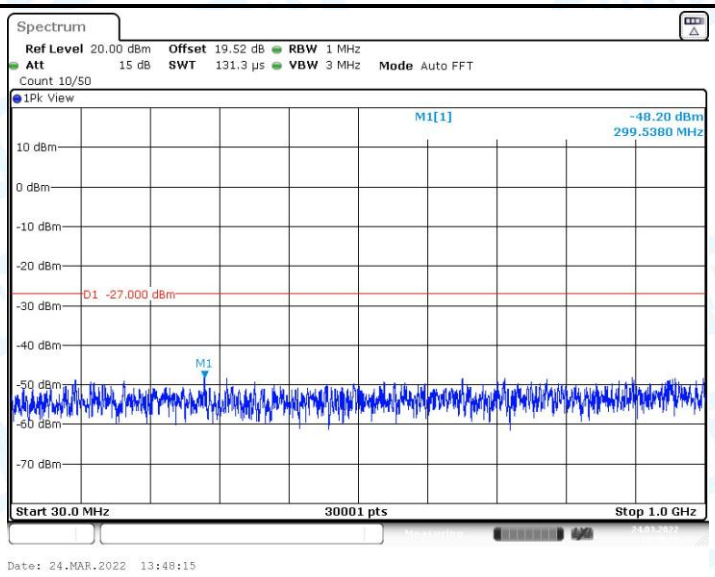
11AC40SISO_Ant1_5795_1000~40000



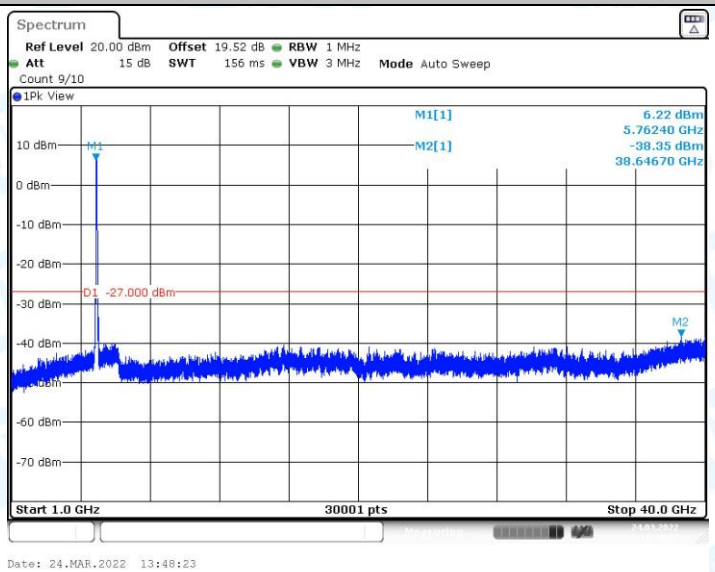
11AC80SISO_Ant1_5210_30~1000



11AC80SISO_Ant1_5210_1000~40000



11AC80SISO_Ant1_5775_30~1000



11AC80SISO_Ant1_5775_1000~40000

9. Frequency stability

9.1.Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-60000.00	-11.583012	20	PASS
			LV	NT	-60000.00	-11.583012	20	PASS
			HV	NT	-60000.00	-11.583012	20	PASS
		5220	NV	NT	-60000.00	-11.494253	20	PASS
			LV	NT	-60000.00	-11.494253	20	PASS
			HV	NT	-60000.00	-11.494253	20	PASS
		5240	NV	NT	-60000.00	-11.450382	20	PASS
			LV	NT	-40000.00	-7.633588	20	PASS
			HV	NT	-60000.00	-11.450382	20	PASS
		5745	NV	NT	-80000.00	-13.925152	20	PASS
			LV	NT	-60000.00	-10.443864	20	PASS
			HV	NT	-80000.00	-13.925152	20	PASS
		5785	NV	NT	-60000.00	-10.371651	20	PASS
			LV	NT	-60000.00	-10.371651	20	PASS
			HV	NT	-80000.00	-13.828868	20	PASS
		5825	NV	NT	-60000.00	-10.300429	20	PASS
			LV	NT	-60000.00	-10.300429	20	PASS
			HV	NT	-60000.00	-10.300429	20	PASS
11N20SISO	Ant1	5180	NV	NT	-100000.00	-19.305019	20	PASS
			LV	NT	-80000.00	-15.444015	20	PASS
			HV	NT	-80000.00	-15.444015	20	PASS
		5220	NV	NT	-60000.00	-11.494253	20	PASS
			LV	NT	-60000.00	-11.494253	20	PASS
			HV	NT	-60000.00	-11.494253	20	PASS
		5240	NV	NT	-60000.00	-11.450382	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
		5745	NV	NT	-80000.00	-13.925152	20	PASS
			LV	NT	-80000.00	-13.925152	20	PASS
			HV	NT	-80000.00	-13.925152	20	PASS
11N40SISO	Ant1	5190	NV	NT	-80000.00	-15.414258	20	PASS
			LV	NT	-80000.00	-15.414258	20	PASS
			HV	NT	-80000.00	-15.414258	20	PASS
		5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
		5755	NV	NT	-80000.00	-13.900956	20	PASS
			LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-80000.00	-13.900956	20	PASS

		5795	NV	NT	-80000.00	-13.900956	20	PASS
			LV	NT	-80000.00	-13.900956	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-80000.00	-15.444015	20	PASS
		5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-100000.00	-19.083969	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-80000.00	-15.414258	20	PASS
			LV	NT	-80000.00	-15.414258	20	PASS
			HV	NT	-80000.00	-15.414258	20	PASS
		5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
		5755	NV	NT	-80000.00	-13.900956	20	PASS
			LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-80000.00	-13.900956	20	PASS
		5795	NV	NT	-80000.00	-13.805004	20	PASS
			LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	-80000.00	-13.805004	20	PASS
11AC80SISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-15.355086	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS
		5775	NV	NT	-80000.00	-15.355086	20	PASS
			LV	NT	-80000.00	-15.355086	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-60000.00	-11.583012	20	PASS
			NV	-20	-60000.00	-11.583012	20	PASS
			NV	-10	-80000.00	-15.444015	20	PASS
			NV	0	-60000.00	-11.583012	20	PASS
			NV	10	-60000.00	-11.583012	20	PASS
			NV	20	-80000.00	-15.444015	20	PASS
			NV	30	-60000.00	-11.583012	20	PASS
			NV	40	-60000.00	-11.583012	20	PASS
			NV	50	-80000.00	-15.444015	20	PASS
		5220	NV	-30	-80000.00	-15.325670	20	PASS
			NV	-20	-80000.00	-15.325670	20	PASS
			NV	-10	-60000.00	-11.494253	20	PASS
			NV	0	-100000.00	-19.157088	20	PASS
			NV	10	-80000.00	-15.325670	20	PASS
			NV	20	-60000.00	-11.494253	20	PASS
			NV	30	-80000.00	-15.325670	20	PASS
			NV	40	-60000.00	-11.494253	20	PASS
			NV	50	-80000.00	-15.325670	20	PASS
		5240	NV	-30	-60000.00	-11.450382	20	PASS

			NV	-20	-80000.00	-15.267176	20	PASS
			NV	-10	-60000.00	-11.450382	20	PASS
			NV	0	-60000.00	-11.450382	20	PASS
			NV	10	-80000.00	-15.267176	20	PASS
			NV	20	-80000.00	-15.267176	20	PASS
			NV	30	-60000.00	-11.450382	20	PASS
			NV	40	-60000.00	-11.450382	20	PASS
			NV	50	-60000.00	-11.450382	20	PASS
		5745	NV	-30	-100000.00	-17.406440	20	PASS
			NV	-20	-80000.00	-13.925152	20	PASS
			NV	-10	-80000.00	-13.925152	20	PASS
			NV	0	-60000.00	-10.443864	20	PASS
			NV	10	-80000.00	-13.925152	20	PASS
			NV	20	-60000.00	-10.443864	20	PASS
			NV	30	-80000.00	-13.925152	20	PASS
			NV	40	-100000.00	-17.406440	20	PASS
			NV	50	-80000.00	-13.925152	20	PASS
		5785	NV	-30	-80000.00	-13.828868	20	PASS
			NV	-20	-80000.00	-13.828868	20	PASS
			NV	-10	-80000.00	-13.828868	20	PASS
			NV	0	-80000.00	-13.828868	20	PASS
			NV	10	-100000.00	-17.286085	20	PASS
			NV	20	-80000.00	-13.828868	20	PASS
			NV	30	-100000.00	-17.286085	20	PASS
			NV	40	-60000.00	-10.371651	20	PASS
			NV	50	-80000.00	-13.828868	20	PASS
		5825	NV	-30	-80000.00	-13.733906	20	PASS
			NV	-20	-60000.00	-10.300429	20	PASS
			NV	-10	-80000.00	-13.733906	20	PASS
			NV	0	-100000.00	-17.167382	20	PASS
			NV	10	-80000.00	-13.733906	20	PASS
			NV	20	-80000.00	-13.733906	20	PASS
			NV	30	-100000.00	-17.167382	20	PASS
			NV	40	-80000.00	-13.733906	20	PASS
			NV	50	-80000.00	-13.733906	20	PASS
11N20SISO	Ant1	5180	NV	-30	-80000.00	-15.444015	20	PASS
			NV	-20	-80000.00	-15.444015	20	PASS
			NV	-10	-80000.00	-15.444015	20	PASS
			NV	0	-60000.00	-11.583012	20	PASS
			NV	10	-80000.00	-15.444015	20	PASS
			NV	20	-60000.00	-11.583012	20	PASS
			NV	30	-60000.00	-11.583012	20	PASS
			NV	40	-80000.00	-15.444015	20	PASS
			NV	50	-80000.00	-15.444015	20	PASS
		5220	NV	-30	-80000.00	-15.325670	20	PASS
			NV	-20	-80000.00	-15.325670	20	PASS

			NV	-10	-80000.00	-15.325670	20	PASS
			NV	0	-80000.00	-15.325670	20	PASS
			NV	10	-80000.00	-15.325670	20	PASS
			NV	20	-80000.00	-15.325670	20	PASS
			NV	30	-80000.00	-15.325670	20	PASS
			NV	40	-60000.00	-11.494253	20	PASS
			NV	50	-80000.00	-15.325670	20	PASS
		5240	NV	-30	-60000.00	-11.450382	20	PASS
			NV	-20	-60000.00	-11.450382	20	PASS
			NV	-10	-60000.00	-11.450382	20	PASS
			NV	0	-80000.00	-15.267176	20	PASS
			NV	10	-100000.00	-19.083969	20	PASS
			NV	20	-60000.00	-11.450382	20	PASS
			NV	30	-60000.00	-11.450382	20	PASS
			NV	40	-60000.00	-11.450382	20	PASS
			NV	50	-60000.00	-11.450382	20	PASS
		5745	NV	-30	-100000.00	-17.406440	20	PASS
			NV	-20	-80000.00	-13.925152	20	PASS
			NV	-10	-80000.00	-13.925152	20	PASS
			NV	0	-100000.00	-17.406440	20	PASS
			NV	10	-80000.00	-13.925152	20	PASS
			NV	20	-80000.00	-13.925152	20	PASS
			NV	30	-100000.00	-17.406440	20	PASS
			NV	40	-100000.00	-17.406440	20	PASS
			NV	50	-80000.00	-13.925152	20	PASS
11N40SISO	Ant1	5190	NV	-30	-80000.00	-15.414258	20	PASS
			NV	-20	-80000.00	-15.414258	20	PASS
			NV	-10	-80000.00	-15.414258	20	PASS
			NV	0	-40000.00	-7.707129	20	PASS
			NV	10	-80000.00	-15.414258	20	PASS
			NV	20	-80000.00	-15.414258	20	PASS
			NV	30	-80000.00	-15.414258	20	PASS
			NV	40	-80000.00	-15.414258	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
		5230	NV	-30	-80000.00	-15.296367	20	PASS
			NV	-20	-80000.00	-15.296367	20	PASS
			NV	-10	-80000.00	-15.296367	20	PASS
			NV	0	-80000.00	-15.296367	20	PASS
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			NV	30	-80000.00	-15.296367	20	PASS
			NV	40	-80000.00	-15.296367	20	PASS
			NV	50	-80000.00	-15.296367	20	PASS
11AC40SISO	Ant1	5190	NV	-30	-80000.00	-15.414258	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS

			NV	0	-80000.00	-15.414258	20	PASS
			NV	10	-80000.00	-15.414258	20	PASS
			NV	20	-80000.00	-15.414258	20	PASS
			NV	30	-80000.00	-15.414258	20	PASS
			NV	40	-80000.00	-15.414258	20	PASS
			NV	50	-80000.00	-15.414258	20	PASS
		5230	NV	-30	-80000.00	-15.296367	20	PASS
			NV	-20	-80000.00	-15.296367	20	PASS
			NV	-10	-80000.00	-15.296367	20	PASS
			NV	0	-80000.00	-15.296367	20	PASS
			NV	10	-80000.00	-15.296367	20	PASS
			NV	20	-80000.00	-15.296367	20	PASS
			NV	30	-80000.00	-15.296367	20	PASS
			NV	40	-80000.00	-15.296367	20	PASS
			NV	50	-40000.00	-7.648184	20	PASS
		5755	NV	-30	-80000.00	-13.900956	20	PASS
			NV	-20	-80000.00	-13.900956	20	PASS
			NV	-10	-80000.00	-13.900956	20	PASS
			NV	0	-80000.00	-13.900956	20	PASS
			NV	10	-80000.00	-13.900956	20	PASS
			NV	20	-80000.00	-13.900956	20	PASS
			NV	30	-80000.00	-13.900956	20	PASS
			NV	40	-80000.00	-13.900956	20	PASS
			NV	50	-80000.00	-13.900956	20	PASS
		5795	NV	-30	-80000.00	-13.805004	20	PASS
			NV	-20	-80000.00	-13.805004	20	PASS
			NV	-10	-80000.00	-13.805004	20	PASS
			NV	0	-80000.00	-13.805004	20	PASS
			NV	10	-80000.00	-13.805004	20	PASS
			NV	20	-80000.00	-13.805004	20	PASS
			NV	30	-80000.00	-13.805004	20	PASS
			NV	40	-80000.00	-13.805004	20	PASS
			NV	50	-80000.00	-13.805004	20	PASS
11AC80SISO	Ant1	5210	NV	-30	-80000.00	-15.355086	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-80000.00	-15.355086	20	PASS
			NV	0	-80000.00	-15.355086	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-80000.00	-15.355086	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-80000.00	-15.355086	20	PASS
		5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-80000.00	-13.852814	20	PASS
			NV	-10	-80000.00	-13.852814	20	PASS
			NV	0	-80000.00	-13.852814	20	PASS

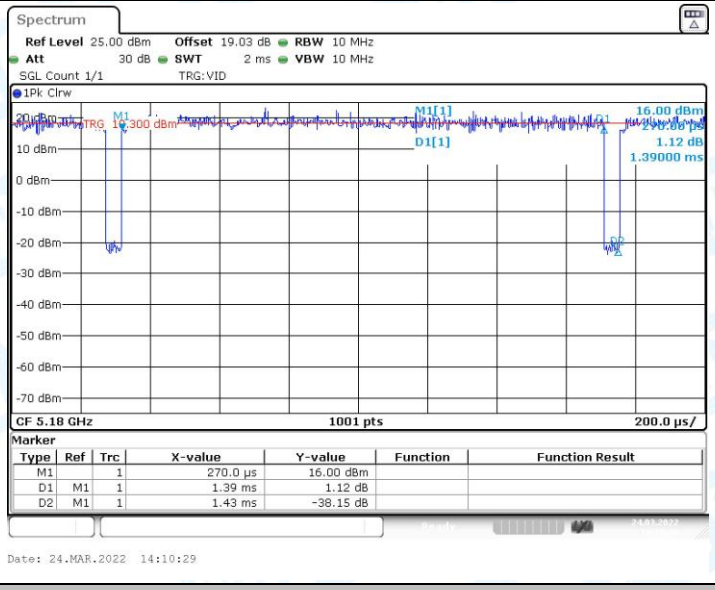
			NV	10	-80000.00	-13.852814	20	PASS
			NV	20	-80000.00	-13.852814	20	PASS
			NV	30	-80000.00	-13.852814	20	PASS
			NV	40	-80000.00	-13.852814	20	PASS
			NV	50	-80000.00	-13.852814	20	PASS

10. Duty cycle

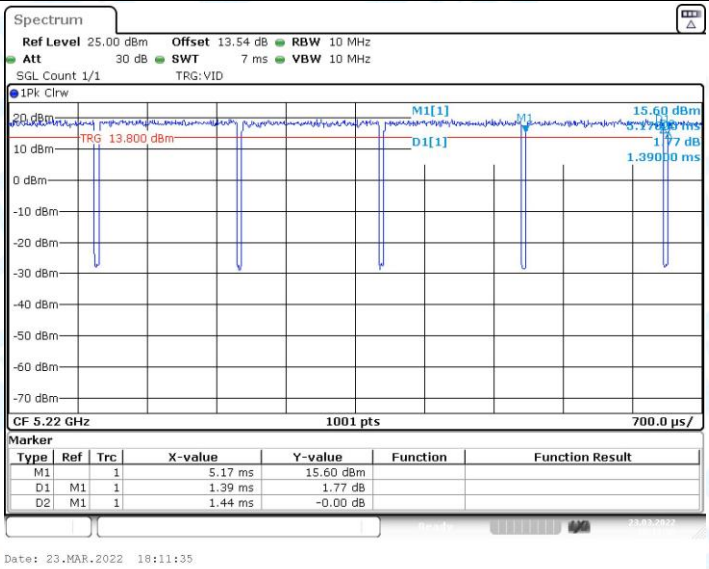
10.1.Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T	Verdict
11A	Ant1	5180	1.39	1.43	97.20	0.71	---
		5220	1.39	1.44	96.53	0.71	---
		5240	1.39	1.44	96.53	0.71	---
		5745	1.39	1.44	96.53	0.71	---
		5785	1.39	1.43	97.20	0.71	---
		5825	1.39	1.44	96.53	0.71	---
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.76	---
		5220	1.30	1.34	97.01	0.76	---
		5240	1.30	1.35	96.30	0.76	---
		5745	1.30	1.34	97.01	0.76	---
		5785	1.30	1.35	96.30	0.76	---
		5825	1.30	1.34	97.01	0.76	---
11N40SISO	Ant1	5190	0.65	0.70	92.86	1.53	---
		5230	0.64	0.69	92.75	1.56	---
		5755	0.65	0.69	94.20	1.53	---
		5795	0.65	1.39	46.76	1.53	---
11AC20SISO	Ant1	5180	1.31	1.38	94.93	0.76	---
		5220	1.30	1.40	92.86	0.76	---
		5240	1.31	1.37	95.62	0.76	---
		5745	1.32	1.93	68.39	0.75	---
		5785	1.32	1.38	95.65	0.75	---
		5825	1.32	1.36	97.06	0.75	---
11AC40SISO	Ant1	5190	0.65	0.70	92.86	1.53	---
		5230	0.65	0.69	94.20	1.44	---
		5755	0.65	0.69	94.20	1.53	---
		5795	0.65	1.38	47.10	1.53	---
11AC80SISO	Ant1	5210	0.97	1.59	61.01	1.07	---
		5775	0.98	1.58	62.03	1.02	---

10.2.Test Graphs



11A_Ant1_5180



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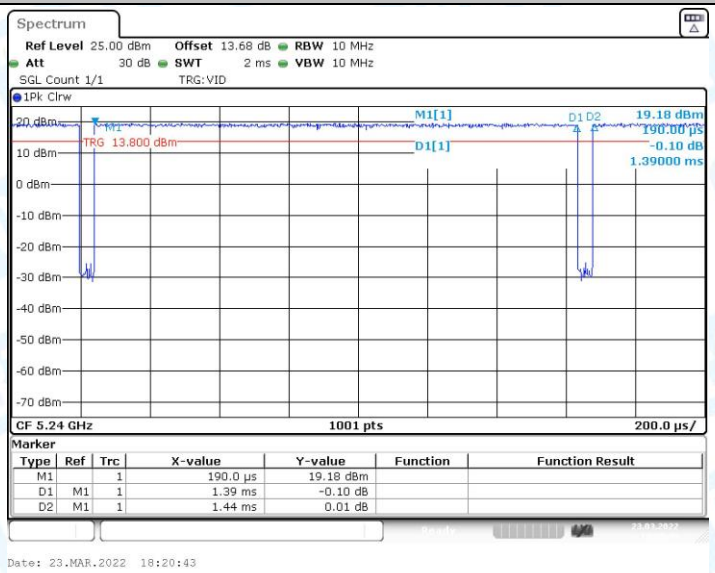

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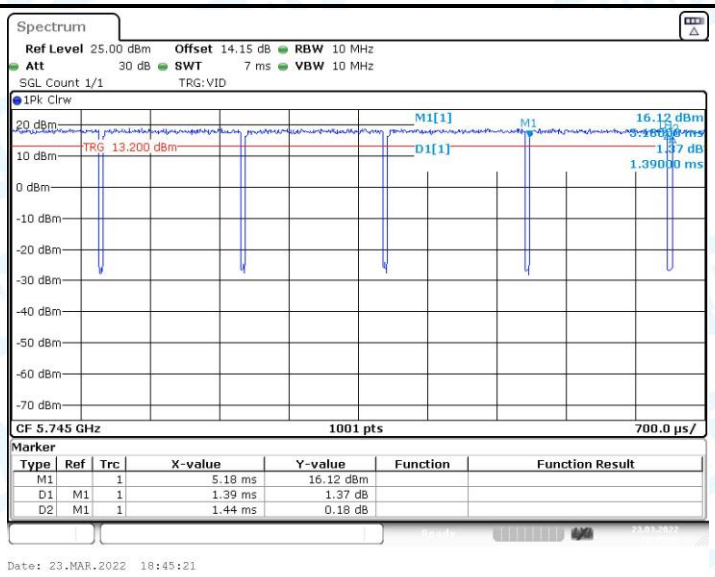

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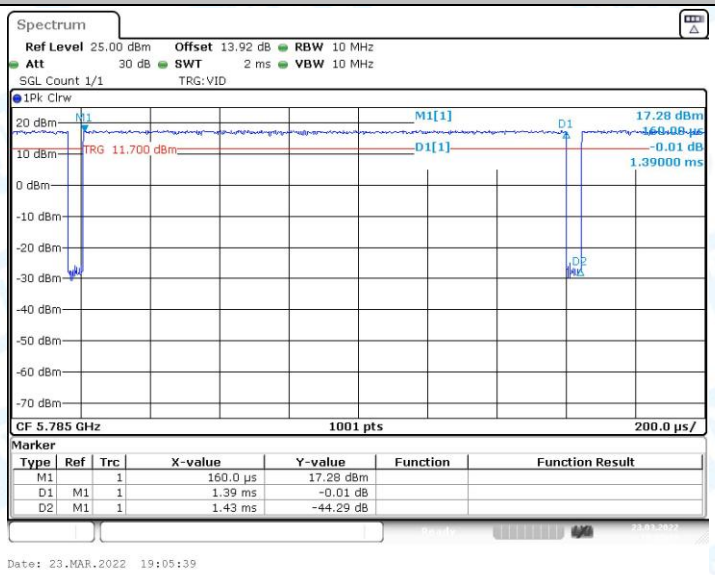

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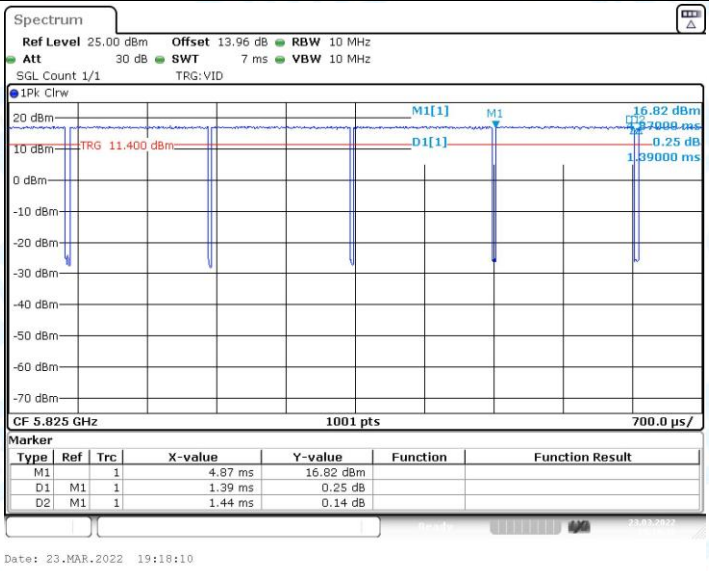
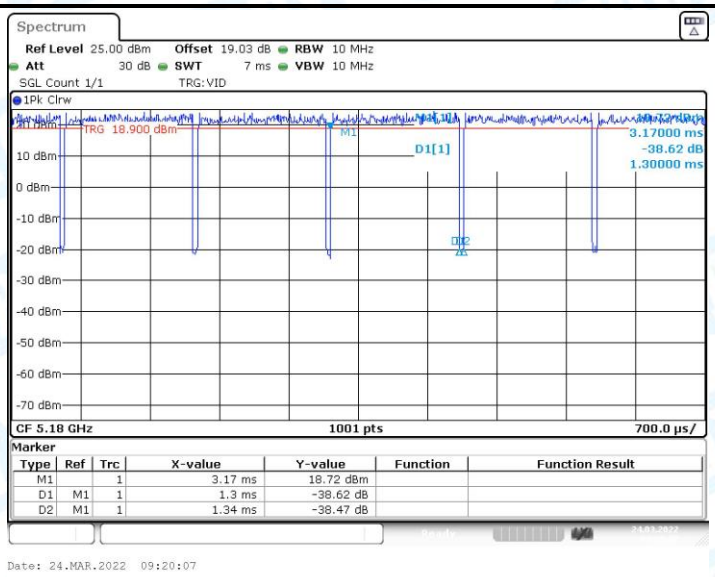


11A_Ant1_5825



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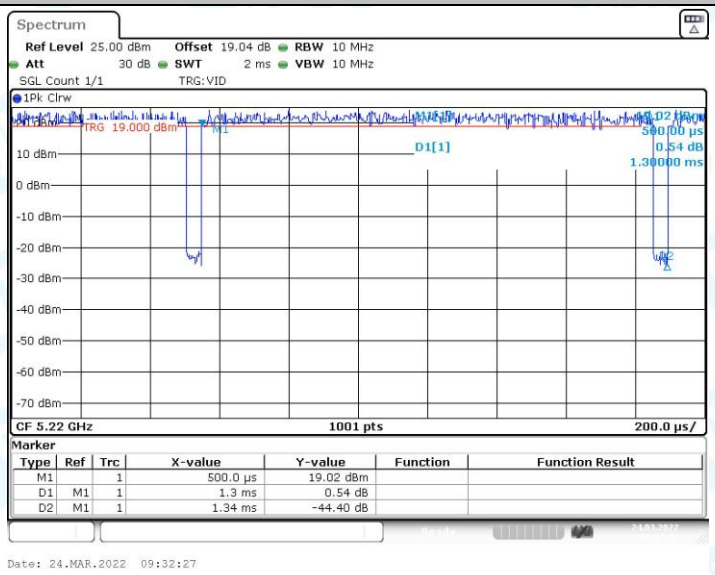

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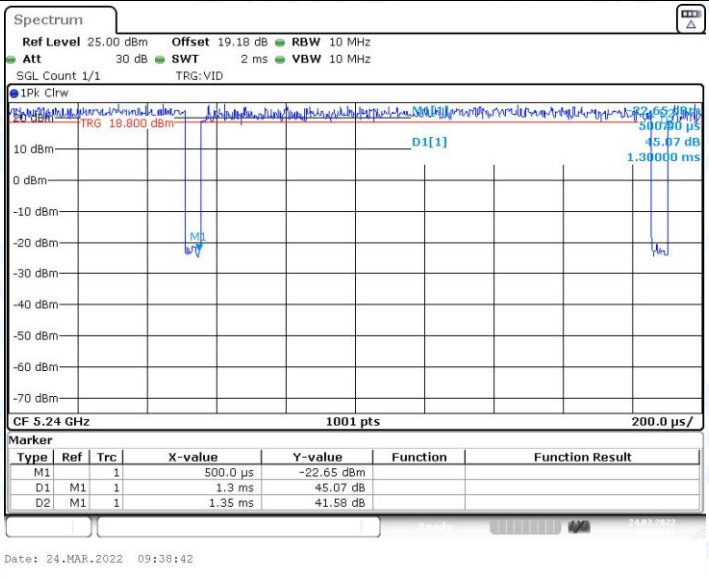

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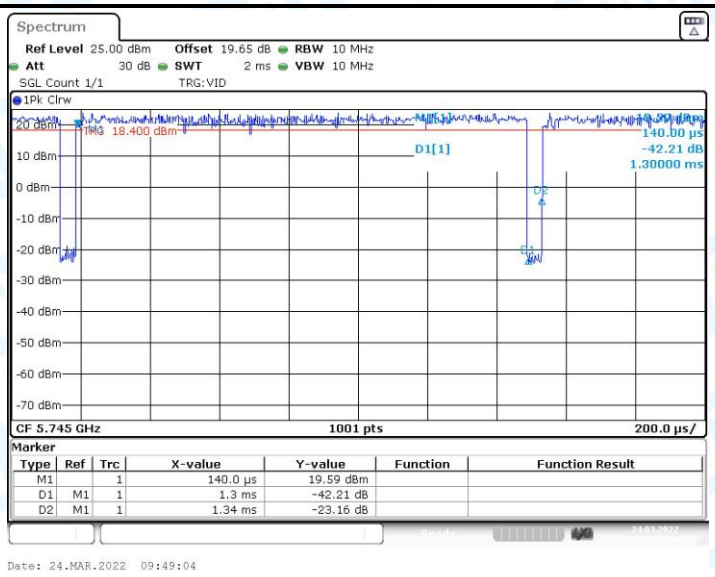

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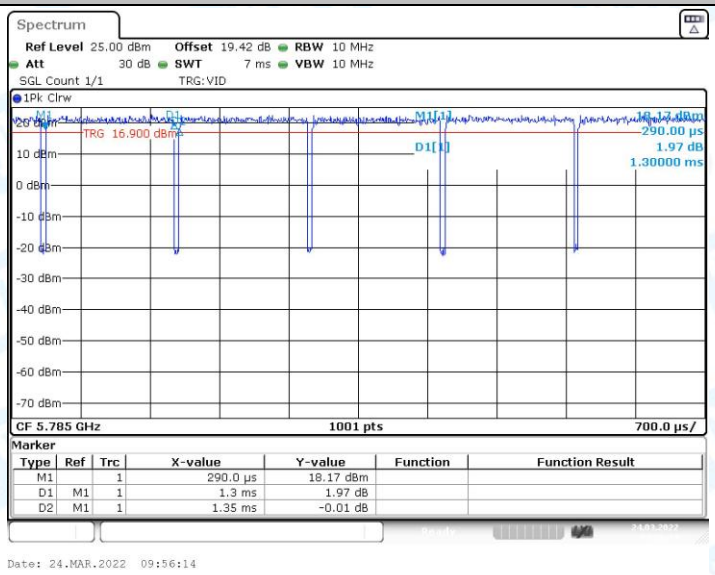

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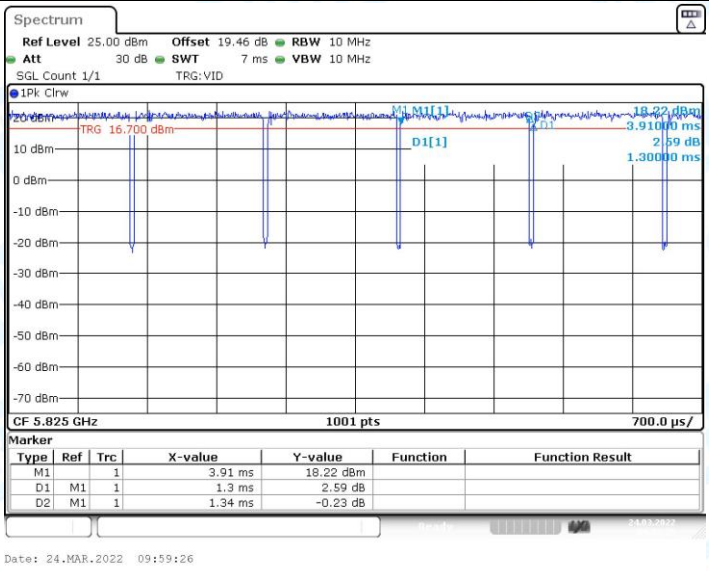

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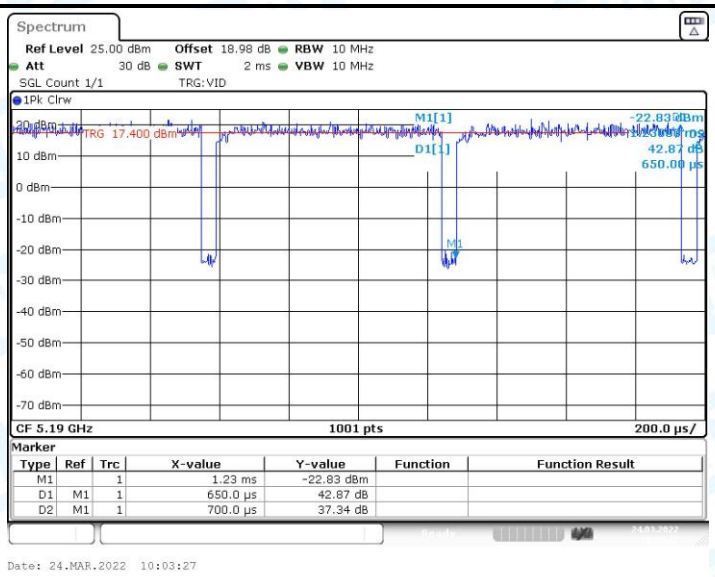

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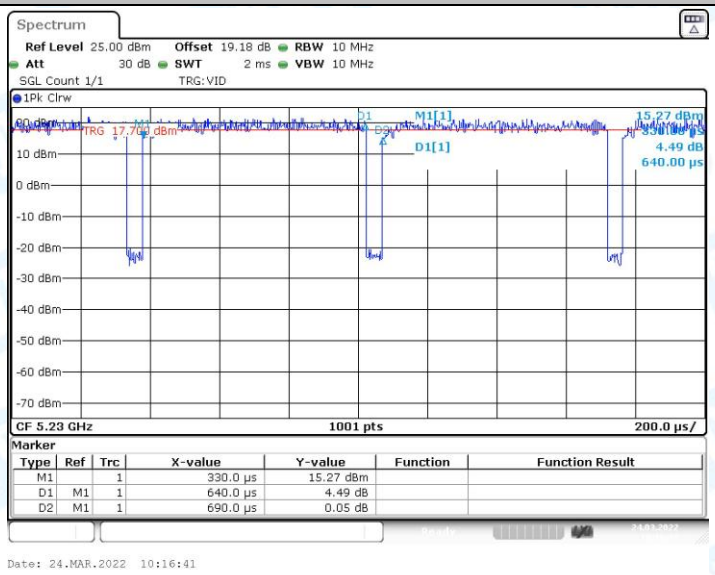

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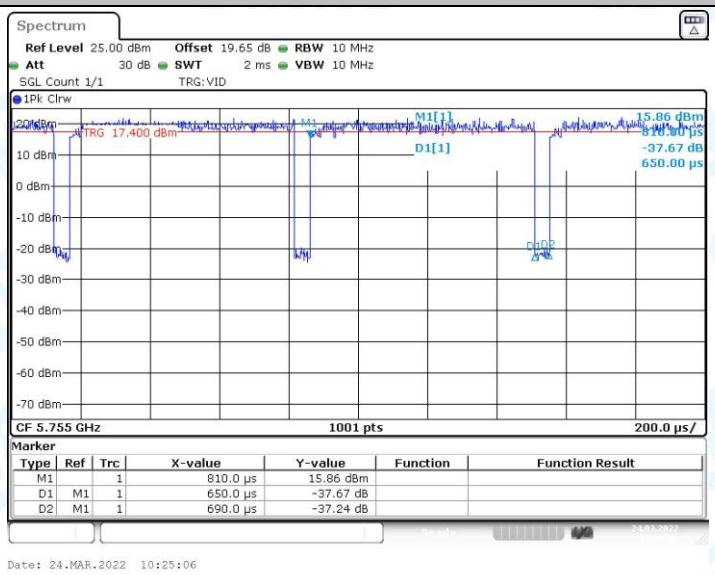

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