

Appendix B

Test Information:

Serial No.:	2RQQ-3	Test Date:	2024-09-18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	28.1	Relative Humidity: (%)	66	ATM Pressure: (kPa)	99.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Minl-Clrucits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/02/25	2025/02/24
Micro-Coax	Coaxial Cable	UFA210A	94089550	2024/06/01	2025/05/31
All-sun	Multimeter	EM305A	8348897	2024/08/16	2025/08/15
R&S	Spectrum Analyzer	FSV40	101461	2024/09/05	2025/09/04
R&S	Wideband Radio Communication Tester	CMW500	149216	2024/09/05	2025/09/04
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2024/09/06	2025/09/05
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Frequency stability vs. temperature &Frequency stability vs. voltage Compliance

FCC Part 22H

Band 5

Mode	Test Channel (MHz)	Frequency Error		Limit (ppm)	Verdict
		(Hz)	(ppm)		
R99_Middle_TN/VN	836.6	1.1	0.001	±2.5	Pass
R99_Middle_T1/VN	836.6	0.8	0.001	±2.5	Pass
R99_Middle_T2/VN	836.6	0.7	0.001	±2.5	Pass
R99_Middle_T3/VN	836.6	0.2	0.000	±2.5	Pass
R99_Middle_T4/VN	836.6	-1.4	-0.002	±2.5	Pass
R99_Middle_T5/VN	836.6	-2.3	-0.003	±2.5	Pass
R99_Middle_T6/VN	836.6	-1.3	-0.002	±2.5	Pass
R99_Middle_T7/VN	836.6	-0.9	-0.001	±2.5	Pass
R99_Middle_T8/VN	836.6	-1.8	-0.002	±2.5	Pass
R99_Middle_TN/VH	836.6	-0.1	0.000	±2.5	Pass
R99_Middle_TN/VL	836.6	-0.6	-0.001	±2.5	Pass

Note:

Frequency Error (ppm)=Frequency Error (MHz)/Test Channel(MHz)*10⁶

TN: 20°C; T1: -30°C; T2: -20°C; T3: -10°C; T4: 0°C; T5: 10°C; T6: 30°C; T7: 40°C; T8: 50°C.

VN: Normal Voltage; VL: Low Voltage; VH: High Voltage.

Occupied Bandwidth

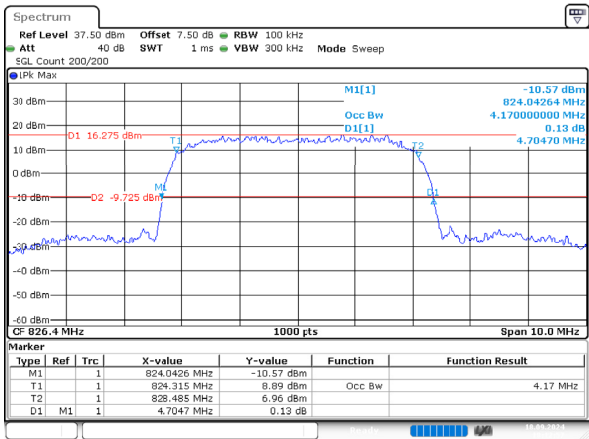
FCC Part 22H

Band 5 , Normal

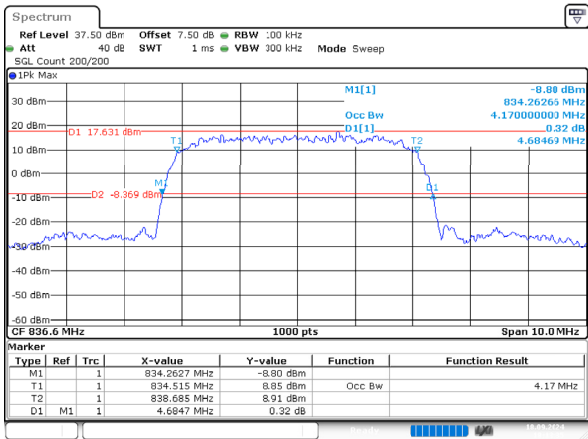
Mode	99% OBW (MHz)	EBW (MHz)
R99_Low	4.170	4.705
R99_Middle	4.170	4.685
R99_High	4.170	4.685
HSDPA_Low_Subtest1	4.140	4.665
HSDPA_Middle_Subtest1	4.150	4.695
HSDPA_High_Subtest1	4.170	4.705
HSUPA_Low_Subtest1	4.160	4.715
HSUPA_Middle_Subtest1	4.180	4.695
HSUPA_High_Subtest1	4.170	4.685

Band 5 , Normal

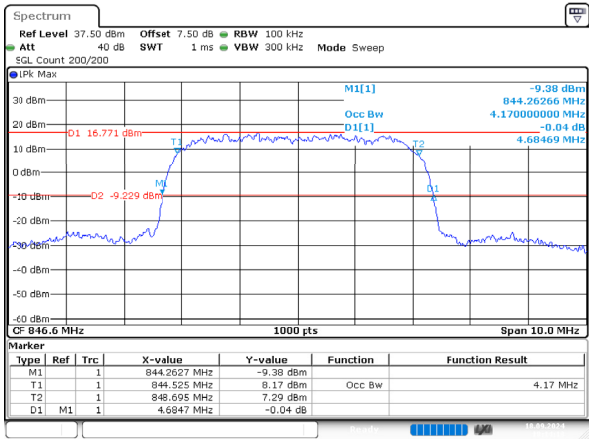
R99_Low 4.170MHz



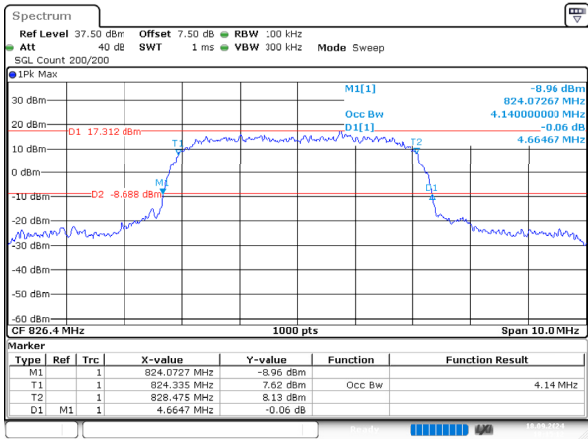
R99_Middle 4.170MHz



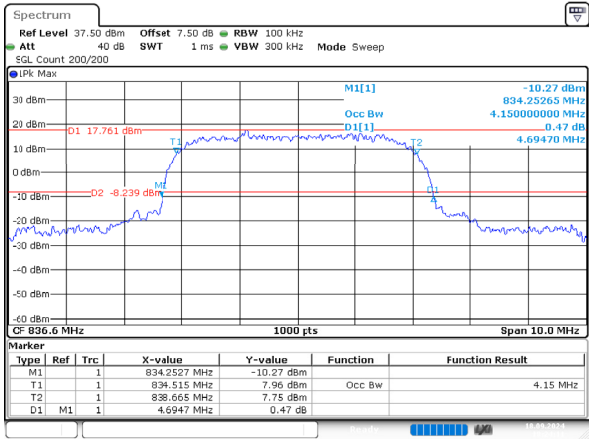
R99_High 4.170MHz



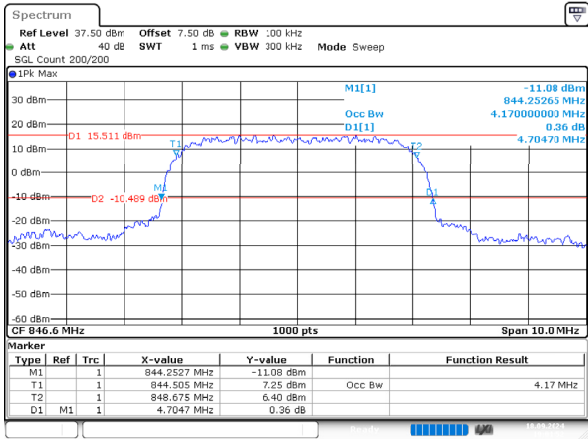
HSDPA_Low_Subtest1 4.140MHz



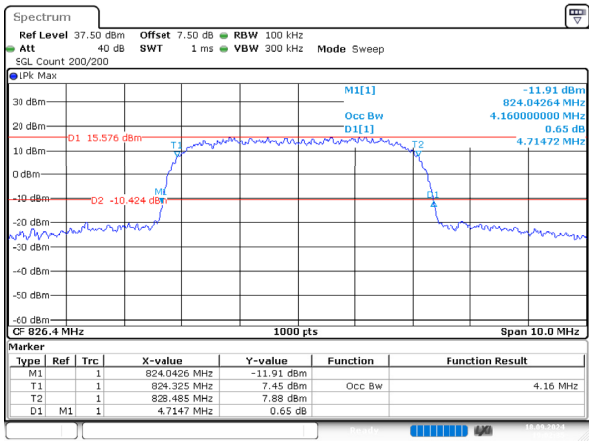
HSDPA_Middle_Subtest1 4.150MHz



HSDPA_High_Subtest1 4.170MHz

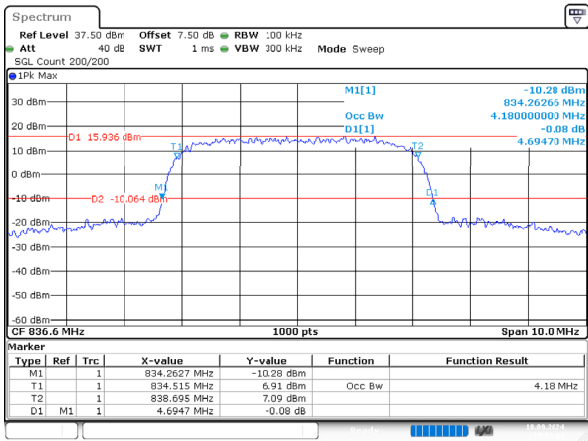


HSUPA_Low_Subtest1 4.160MHz



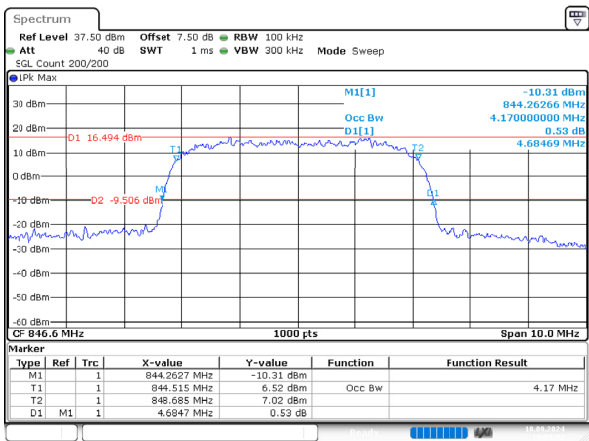
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Date: 18.SEP.2024 19:02:35

HSUPA_Middle_Subtest1 4.180MHz



ProjectNo.:2402X94972E-RF Tester:Loge Long
Date: 18.SEP.2024 19:03:14

HSUPA_High_Subtest1 4.170MHz



ProjectNo.:2402X94972E-RF Tester:Loge Long
Date: 18.SEP.2024 19:03:52

RF Output Power

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Band 5 , Normal

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
R99_Low	22.58	20.24	38.45	Pass
R99_Middle	22.72	20.38	38.45	Pass
R99_High	22.60	20.26	38.45	Pass
HSDPA_Low_Subtest1	21.86	19.52	38.45	Pass
HSDPA_Low_Subtest2	22.43	20.09	38.45	Pass
HSDPA_Low_Subtest3	22.43	20.09	38.45	Pass
HSDPA_Low_Subtest4	22.44	20.10	38.45	Pass
HSDPA_Middle_Subtest1	22.17	19.83	38.45	Pass
HSDPA_Middle_Subtest2	22.76	20.42	38.45	Pass
HSDPA_Middle_Subtest3	22.76	20.42	38.45	Pass
HSDPA_Middle_Subtest4	22.80	20.46	38.45	Pass
HSDPA_High_Subtest1	21.92	19.58	38.45	Pass
HSDPA_High_Subtest2	22.21	19.87	38.45	Pass
HSDPA_High_Subtest3	22.23	19.89	38.45	Pass
HSDPA_High_Subtest4	22.33	19.99	38.45	Pass
HSUPA_Low_Subtest1	22.38	20.04	38.45	Pass
HSUPA_Low_Subtest2	22.37	20.03	38.45	Pass
HSUPA_Low_Subtest3	22.36	20.02	38.45	Pass
HSUPA_Low_Subtest4	22.37	20.03	38.45	Pass
HSUPA_Low_Subtest5	22.35	20.01	38.45	Pass
HSUPA_Middle_Subtest1	22.65	20.31	38.45	Pass
HSUPA_Middle_Subtest2	22.67	20.33	38.45	Pass
HSUPA_Middle_Subtest3	22.67	20.33	38.45	Pass
HSUPA_Middle_Subtest4	22.66	20.32	38.45	Pass
HSUPA_Middle_Subtest5	22.67	20.33	38.45	Pass
HSUPA_High_Subtest1	22.19	19.85	38.45	Pass
HSUPA_High_Subtest2	22.21	19.87	38.45	Pass
HSUPA_High_Subtest3	22.16	19.82	38.45	Pass
HSUPA_High_Subtest4	22.16	19.82	38.45	Pass
HSUPA_High_Subtest5	22.21	19.87	38.45	Pass
HSPA+_Low_Subtest1	22.54	20.20	38.45	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
HSPA+_Middle_Subtest1	22.48	20.14	38.45	Pass
HSPA+_High_Subtest1	22.21	19.87	38.45	Pass
DC-HSDPA_Low_Subtest1	22.46	20.12	38.45	Pass
DC-HSDPA_Low_Subtest2	22.62	20.28	38.45	Pass
DC-HSDPA_Low_Subtest3	22.55	20.21	38.45	Pass
DC-HSDPA_Low_Subtest4	22.64	20.30	38.45	Pass
DC-HSDPA_Middle_Subtest1	22.38	20.04	38.45	Pass
DC-HSDPA_Middle_Subtest2	22.31	19.97	38.45	Pass
DC-HSDPA_Middle_Subtest3	22.63	20.29	38.45	Pass
DC-HSDPA_Middle_Subtest4	22.46	20.12	38.45	Pass
DC-HSDPA_High_Subtest1	22.32	19.98	38.45	Pass
DC-HSDPA_High_Subtest2	22.15	19.81	38.45	Pass
DC-HSDPA_High_Subtest3	22.19	19.85	38.45	Pass
DC-HSDPA_High_Subtest4	22.37	20.03	38.45	Pass

Note:

ERP = Average Conducted Power(dBm) - L_C(dB) + G_T(dBd)

G_T(dBd) = G_T(dBi) - 2.15

1.Ant Gain = -0.09dBi;

2.C_L = signal attenuation in the connecting cable between the transmitter and antenna in 0.1dB

Peak-to-average Ratio(PAR)

FCC Part 22H

Band 5 , Normal

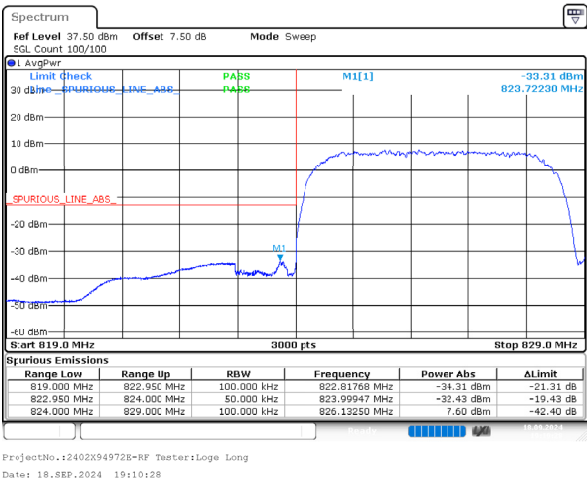
Mode	Result (dB)	Limit (dB)
R99_Low	2.93	13
R99_Middle	2.81	13
R99_High	3.07	13
HSDPA_Low_Subtest1	3.51	13
HSDPA_Middle_Subtest1	3.13	13
HSDPA_High_Subtest1	3.65	13
HSUPA_Low_Subtest1	4.06	13
HSUPA_Middle_Subtest1	4.17	13
HSUPA_High_Subtest1	4.55	13

Out of band emission,Band Edge

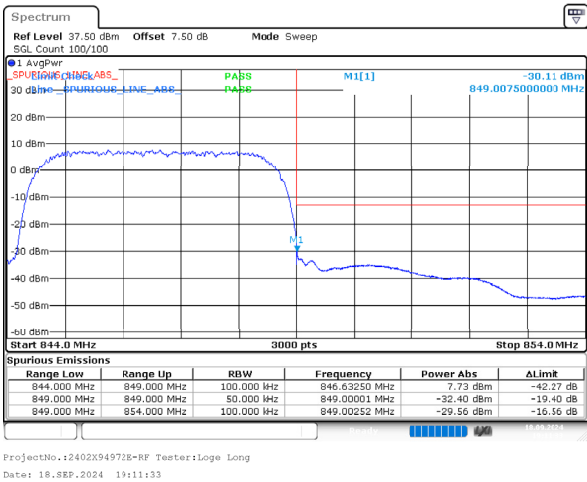
FCC Part 22H

Band 5 , Normal

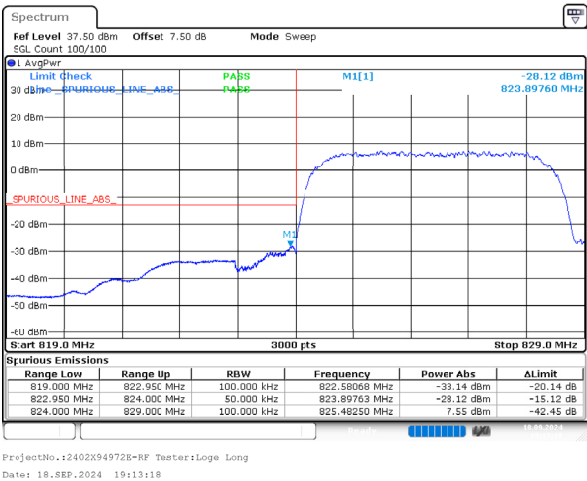
R99_Low



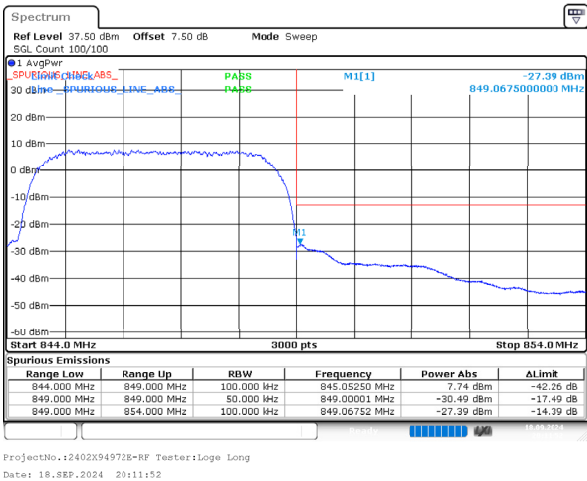
R99_High



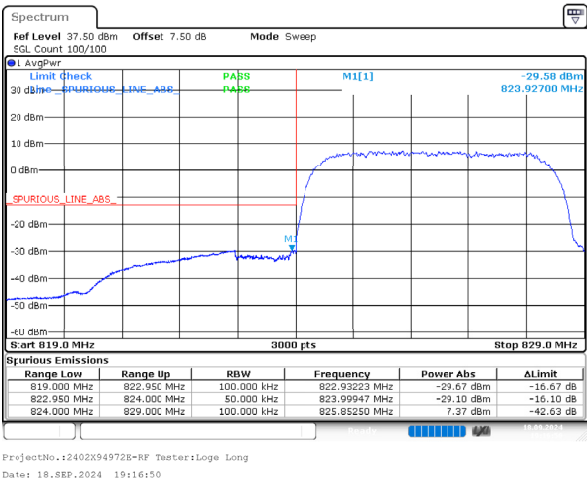
HSDPA_Low_Subtest1



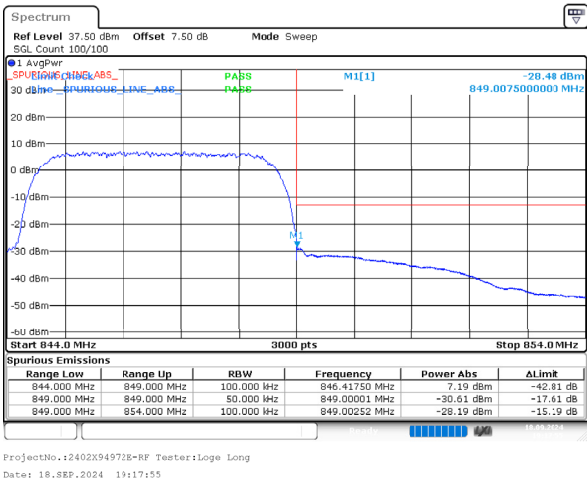
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



HSUPA_High_Subtest1

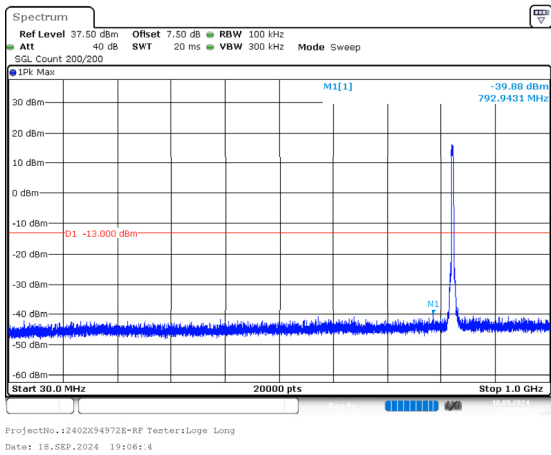


Spurious Emissions at Antenna Terminal

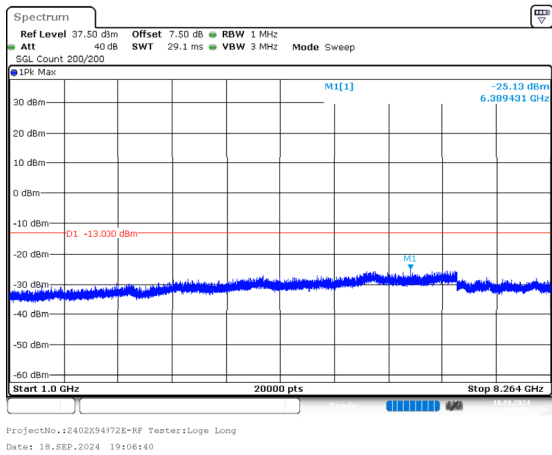
FCC Part 22H
Band 5 , Normal

R99_Low

Below 1G

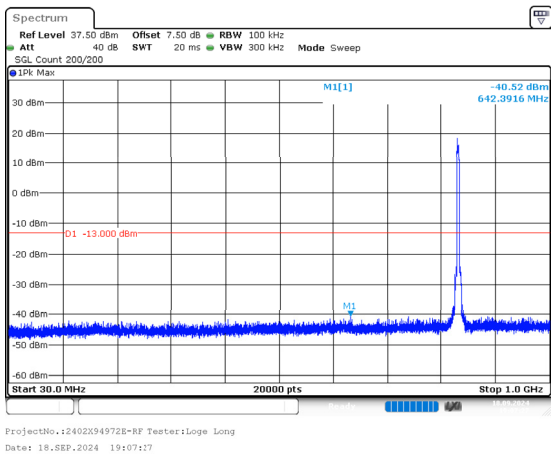


Above 1G

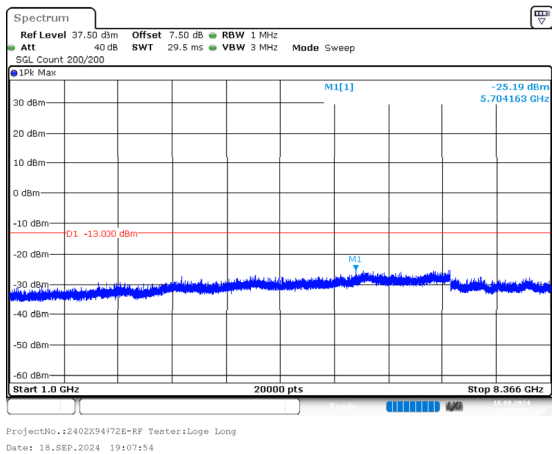


R99_Middle

Below 1G



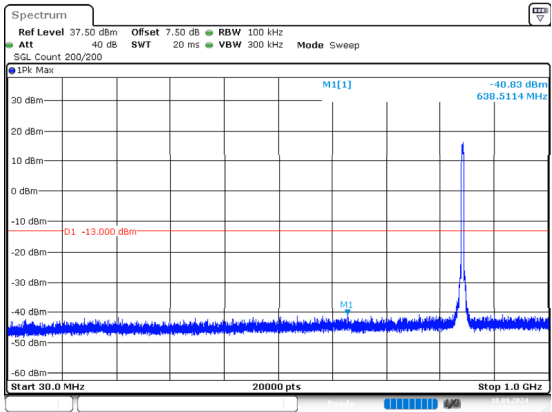
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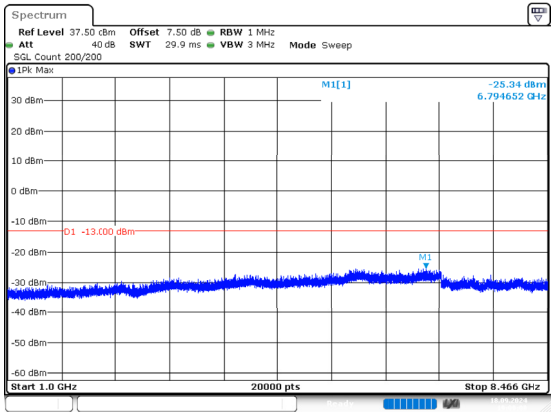
R99_High

Below 1G

Above 1G



ProjectNo.:2402X94972E-RF Tester:Loge Long
Date: 18.SEP.2024 19:08:12



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