

Appendix B

Test Information:

Serial No.:	2YIJ-1	Test Date:	2025/02/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.5	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/02/25	2025/02/24
Micro-Coax	Coaxial Cable	UFB205A	323308-012	2024/06/01	2025/05/31
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM502	2024/06/07	2025/06/06
All-sun	Multimeter	EM305A	8348897	2024/08/16	2025/08/15
R&S	Spectrum Analyzer	FSV40	101947	2024/09/05	2025/09/04
R&S	Wideband Radio Communication Tester	CMW500	144976	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	-11.5	-0.0137	±2.5	Pass
R99_Middle_T1/VN	836.6	-8.0	-0.0095	±2.5	Pass
R99_Middle_T2/VN	836.6	-10.0	-0.0119	±2.5	Pass
R99_Middle_T3/VN	836.6	-10.1	-0.0121	±2.5	Pass
R99_Middle_T4/VN	836.6	-9.6	-0.0115	±2.5	Pass
R99_Middle_T5/VN	836.6	-6.6	-0.0079	±2.5	Pass
R99_Middle_T6/VN	836.6	-7.8	-0.0093	±2.5	Pass
R99_Middle_T7/VN	836.6	-6.8	-0.0082	±2.5	Pass
R99_Middle_T8/VN	836.6	-7.8	-0.0093	±2.5	Pass
R99_Middle_TN/VH	836.6	-7.7	-0.0092	±2.5	Pass
R99_Middle_TN/VL	836.6	-3.6	-0.0043	±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.

FCC Part 24E

Band 2

Mode	Result (MHz)	Limit (MHz)	Verdict
R99_Low_TN/VN	1850.325	1850	Pass
R99_Low_T1/VN	1850.325	1850	Pass
R99_Low_T2/VN	1850.305	1850	Pass
R99_Low_T3/VN	1850.305	1850	Pass
R99_Low_T4/VN	1850.315	1850	Pass
R99_Low_T5/VN	1850.305	1850	Pass
R99_Low_T6/VN	1850.335	1850	Pass
R99_Low_T7/VN	1850.295	1850	Pass
R99_Low_T8/VN	1850.315	1850	Pass
R99_Low_TN/VH	1850.325	1850	Pass
R99_Low_TN/VL	1850.315	1850	Pass
R99_High_TN/VN	1909.705	1910	Pass
R99_High_T1/VN	1909.705	1910	Pass
R99_High_T2/VN	1909.695	1910	Pass
R99_High_T3/VN	1909.705	1910	Pass
R99_High_T4/VN	1909.695	1910	Pass
R99_High_T5/VN	1909.705	1910	Pass
R99_High_T6/VN	1909.695	1910	Pass
R99_High_T7/VN	1909.705	1910	Pass
R99_High_T8/VN	1909.685	1910	Pass
R99_High_TN/VH	1909.705	1910	Pass
R99_High_TN/VL	1909.685	1910	Pass

Note:

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

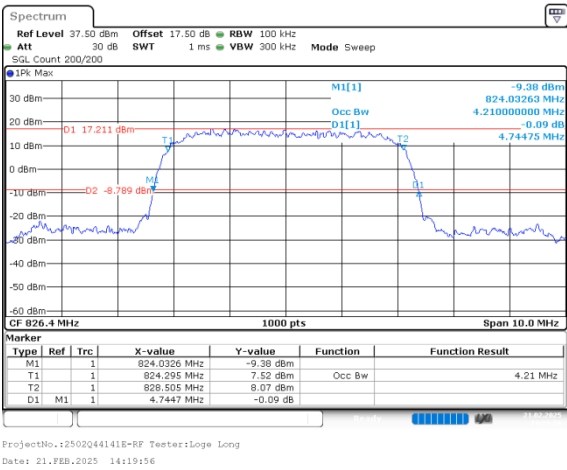
FCC Part 22H

Band 5 , Normal

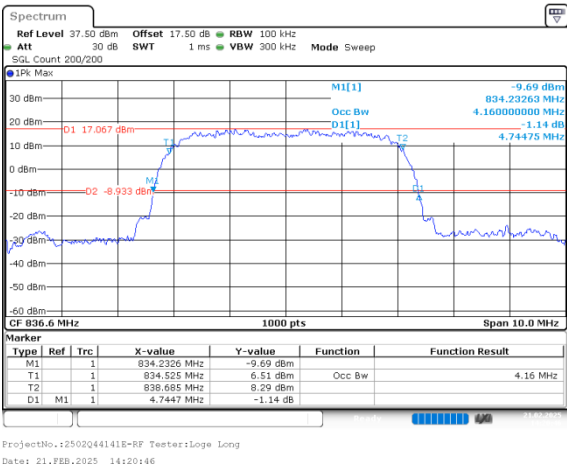
Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.210	4.745
R99_Middle	4.160	4.745
R99_High	4.190	4.745
HSDPA_Low_Subtest1	4.180	4.805
HSDPA_Middle_Subtest1	4.220	4.925
HSDPA_High_Subtest1	4.200	4.735
HSUPA_Low_Subtest1	4.200	4.695
HSUPA_Middle_Subtest1	4.170	4.925
HSUPA_High_Subtest1	4.190	4.725

Band 5 , Normal

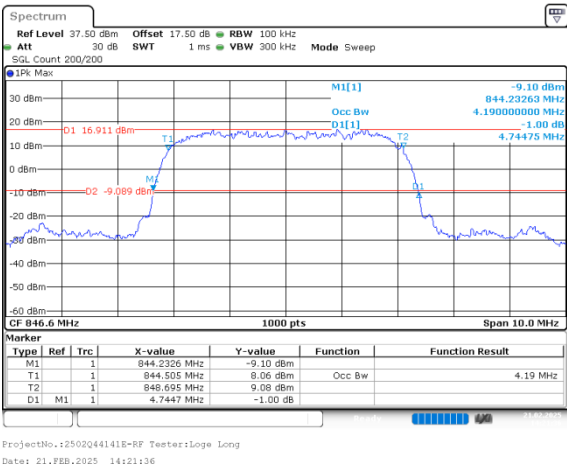
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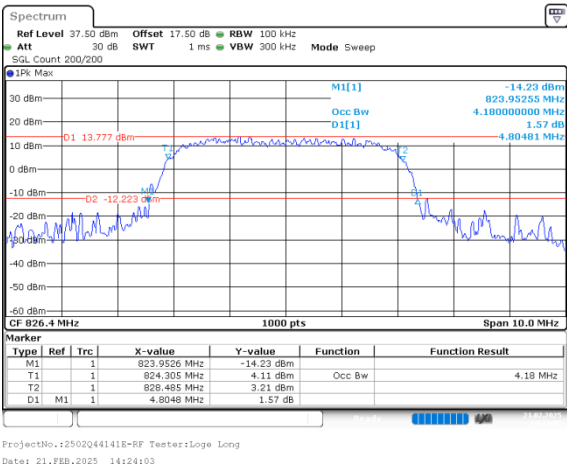
R99_Middle



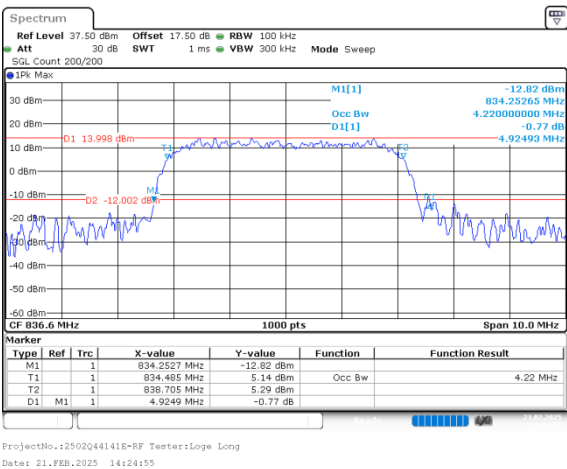
R99_High



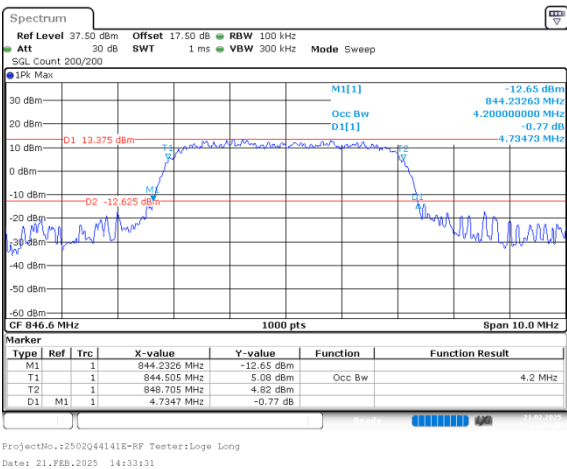
HSDPA_Low_Subtest1



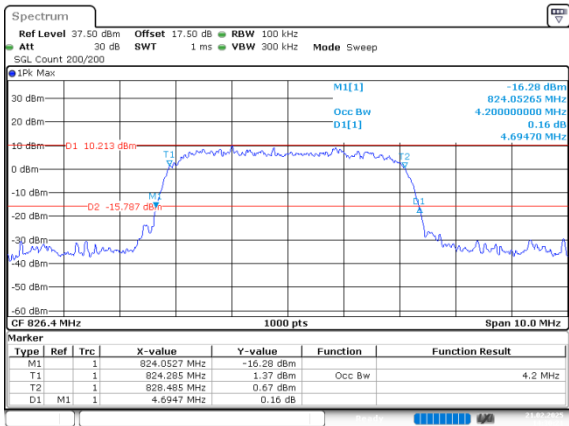
HSDPA_Middle_Subtest1



HSDPA_High_Subtest1

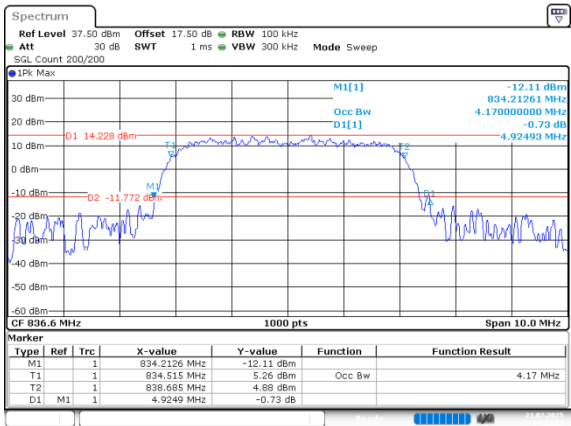


HSUPA_Low_Subtest1



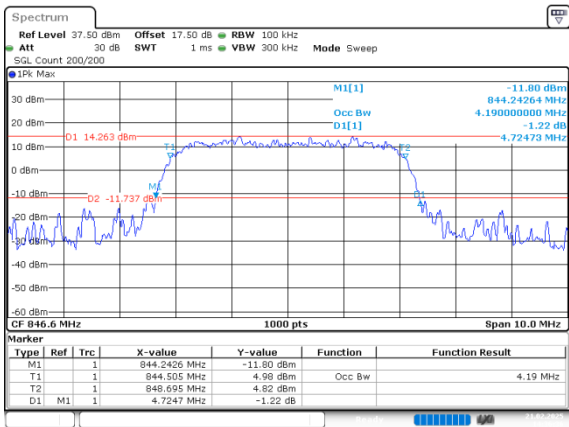
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HSUPA_Middle_Subtest1



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HSUPA_High_Subtest1



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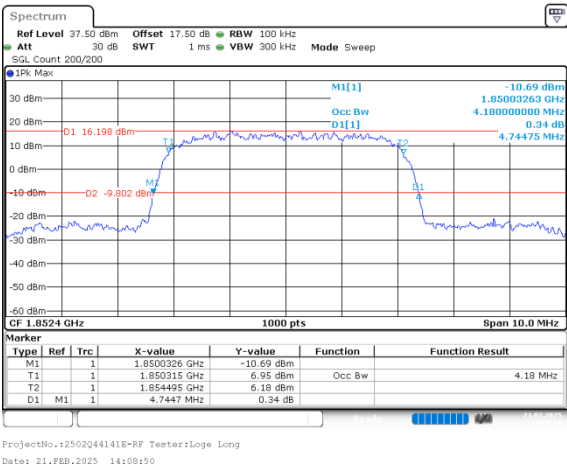
FCC Part 24E

Band 2 , Normal

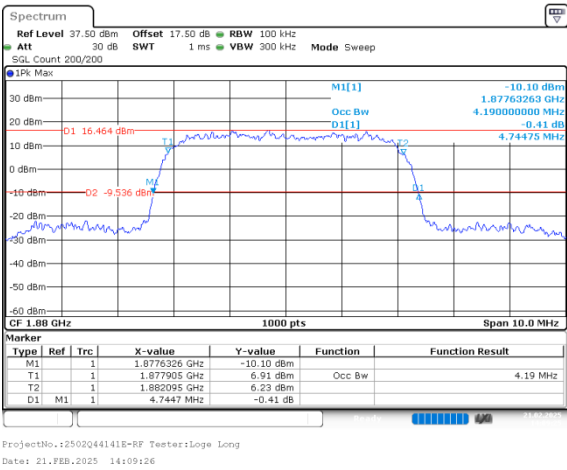
Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.180	4.745
R99_Middle	4.190	4.745
R99_High	4.180	4.735
HSDPA_Low_Subtest1	4.170	4.725
HSDPA_Middle_Subtest1	4.160	4.705
HSDPA_High_Subtest1	4.190	4.725
HSUPA_Low_Subtest1	4.190	4.705
HSUPA_Middle_Subtest1	4.190	4.725
HSUPA_High_Subtest1	4.190	4.715

Band 2 , Normal

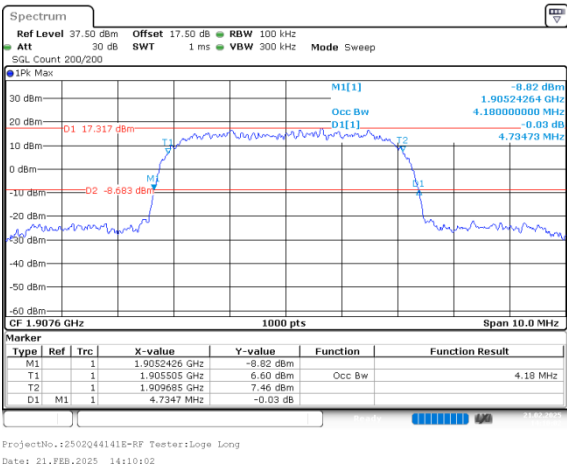
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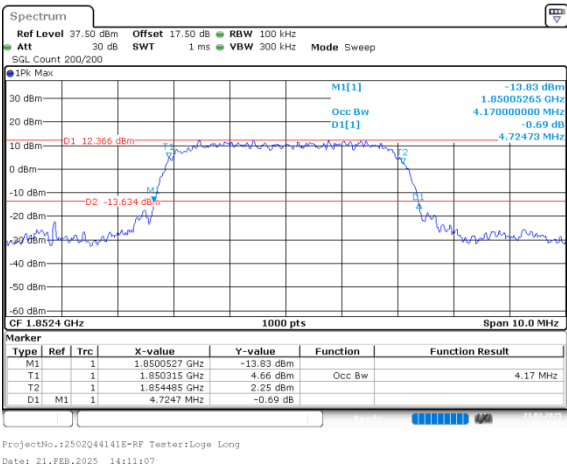
R99_Middle



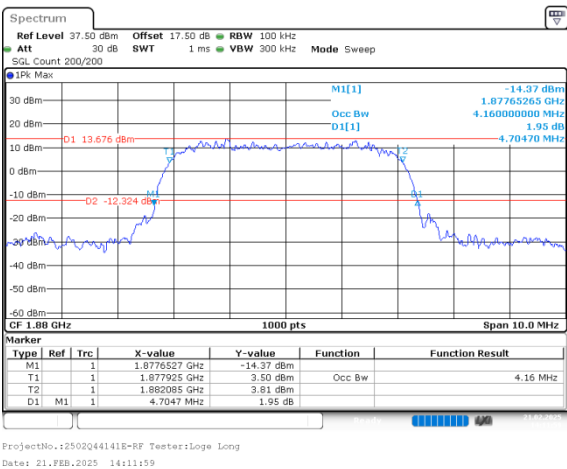
R99_High



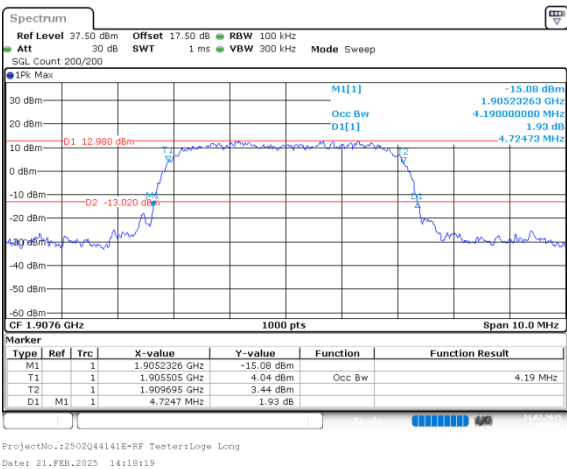
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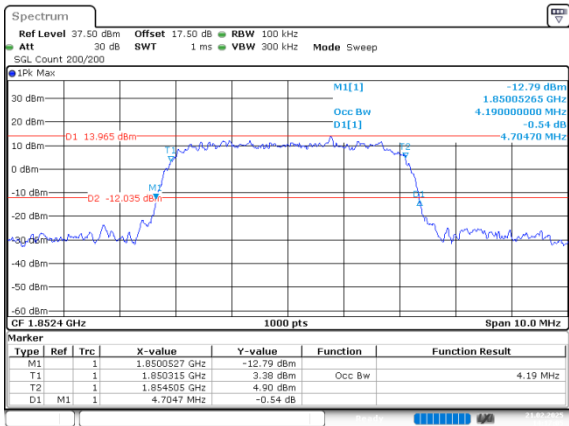
HSDPA_Middle_Subtest1



HSDPA_High_Subtest1

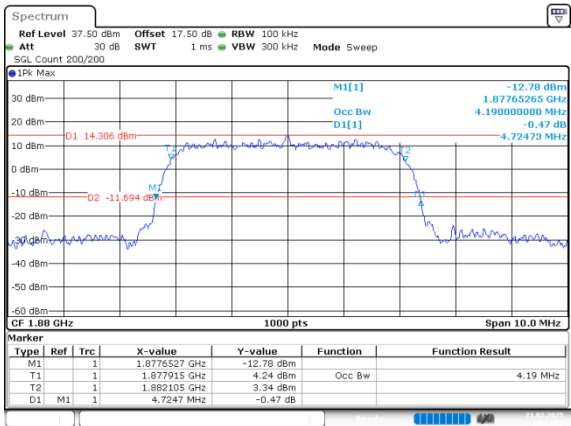


HSUPA_Low_Subtest1



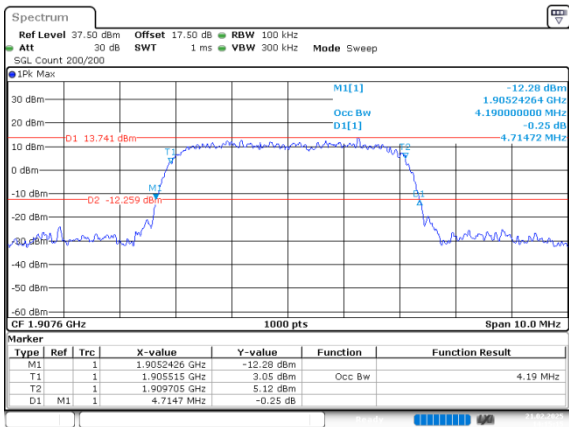
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HSUPA_Middle_Subtest1



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Date: 21.FEB.2025 14:14:23

HSUPA_High_Subtest1



ProjectNo.:2502Q44141E-RF Tester:Loge Long
Date: 21.FEB.2025 14:15:16

RF Output Power

FCC Part 22H

Band 5 , Normal

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
R99_Low	23.38	20.74	38.45	Pass
R99_Middle	23.45	20.81	38.45	Pass
R99_High	23.40	20.76	38.45	Pass
HSDPA_Low_Subtest1	19.46	16.82	38.45	Pass
HSDPA_Low_Subtest2	19.44	16.80	38.45	Pass
HSDPA_Low_Subtest3	19.41	16.77	38.45	Pass
HSDPA_Low_Subtest4	19.50	16.86	38.45	Pass
HSDPA_Middle_Subtest1	19.43	16.79	38.45	Pass
HSDPA_Middle_Subtest2	19.46	16.82	38.45	Pass
HSDPA_Middle_Subtest3	19.40	16.76	38.45	Pass
HSDPA_Middle_Subtest4	19.47	16.83	38.45	Pass
HSDPA_High_Subtest1	19.35	16.71	38.45	Pass
HSDPA_High_Subtest2	19.49	16.85	38.45	Pass
HSDPA_High_Subtest3	19.50	16.86	38.45	Pass
HSDPA_High_Subtest4	19.59	16.95	38.45	Pass
HSUPA_Low_Subtest1	19.50	16.86	38.45	Pass
HSUPA_Low_Subtest2	19.38	16.74	38.45	Pass
HSUPA_Low_Subtest3	19.42	16.78	38.45	Pass
HSUPA_Low_Subtest4	19.45	16.81	38.45	Pass
HSUPA_Low_Subtest5	19.42	16.78	38.45	Pass
HSUPA_Middle_Subtest1	19.53	16.89	38.45	Pass
HSUPA_Middle_Subtest2	19.44	16.80	38.45	Pass
HSUPA_Middle_Subtest3	19.59	16.95	38.45	Pass
HSUPA_Middle_Subtest4	19.45	16.81	38.45	Pass
HSUPA_Middle_Subtest5	19.54	16.90	38.45	Pass
HSUPA_High_Subtest1	19.39	16.75	38.45	Pass
HSUPA_High_Subtest2	19.35	16.71	38.45	Pass
HSUPA_High_Subtest3	19.46	16.82	38.45	Pass
HSUPA_High_Subtest4	19.41	16.77	38.45	Pass
HSUPA_High_Subtest5	19.47	16.83	38.45	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	19.43	16.79	38.45	Pass
HSPA+_Middle_Subtest1	19.47	16.83	38.45	Pass
HSPA+_High_Subtest1	19.46	16.82	38.45	Pass

Note:

ERP = Average Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

Antenna Gain(dBd) = Antenna Gain(dBi) - 2.15

1.Antenna Gain = -0.49dBi;

2.Cable Loss = 0dB.

FCC Part 24E

Band 2 , Normal

Mode	Average Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
R99_Low	22.30	24.24	33	Pass
R99_Middle	22.27	24.21	33	Pass
R99_High	22.49	24.43	33	Pass
HSDPA_Low_Subtest1	18.40	20.34	33	Pass
HSDPA_Low_Subtest2	18.23	20.17	33	Pass
HSDPA_Low_Subtest3	18.36	20.30	33	Pass
HSDPA_Low_Subtest4	18.39	20.33	33	Pass
HSDPA_Middle_Subtest1	18.30	20.24	33	Pass
HSDPA_Middle_Subtest2	18.28	20.22	33	Pass
HSDPA_Middle_Subtest3	18.22	20.16	33	Pass
HSDPA_Middle_Subtest4	18.30	20.24	33	Pass
HSDPA_High_Subtest1	18.61	20.55	33	Pass
HSDPA_High_Subtest2	18.43	20.37	33	Pass
HSDPA_High_Subtest3	18.51	20.45	33	Pass
HSDPA_High_Subtest4	18.51	20.45	33	Pass
HSUPA_Low_Subtest1	18.37	20.31	33	Pass
HSUPA_Low_Subtest2	18.28	20.22	33	Pass
HSUPA_Low_Subtest3	18.30	20.24	33	Pass
HSUPA_Low_Subtest4	18.23	20.17	33	Pass
HSUPA_Low_Subtest5	18.21	20.15	33	Pass
HSUPA_Middle_Subtest1	18.36	20.30	33	Pass
HSUPA_Middle_Subtest2	18.24	20.18	33	Pass
HSUPA_Middle_Subtest3	18.27	20.21	33	Pass
HSUPA_Middle_Subtest4	18.33	20.27	33	Pass
HSUPA_Middle_Subtest5	18.25	20.19	33	Pass
HSUPA_High_Subtest1	18.49	20.43	33	Pass
HSUPA_High_Subtest2	18.49	20.43	33	Pass
HSUPA_High_Subtest3	18.42	20.36	33	Pass
HSUPA_High_Subtest4	18.47	20.41	33	Pass
HSUPA_High_Subtest5	18.49	20.43	33	Pass

Mode	Average Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	18.32	20.26	33	Pass
HSPA+_Middle_Subtest1	18.32	20.26	33	Pass
HSPA+_High_Subtest1	18.52	20.46	33	Pass

Note:

EIRP = Average Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

1.Antenna Gain = 1.94dBi;

2.Cable Loss = 0dB.

Peak-to-average Ratio(PAR)

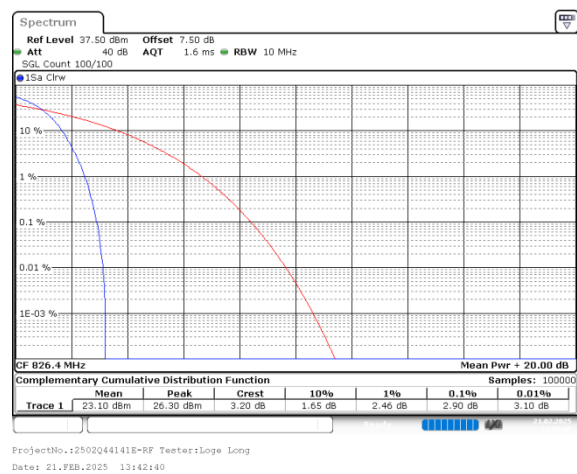
FCC Part 22H

Band 5 , Normal

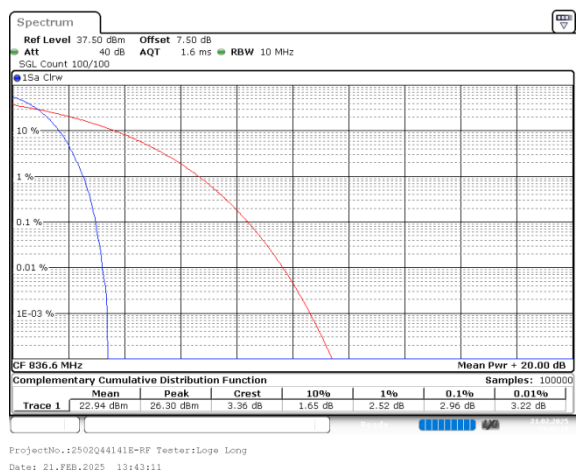
Mode	Result (dB)	Limit (dB)
R99_Low	2.90	13
R99_Middle	2.96	13
R99_High	2.99	13
HSDPA_Low_Subtest1	5.51	13
HSDPA_Middle_Subtest2	4.84	13
HSDPA_High_Subtest1	4.58	13
HSUPA_Low_Subtest1	6.17	13
HSUPA_Middle_Subtest1	6.43	13
HSUPA_High_Subtest1	6.14	13

Band 5 , Normal

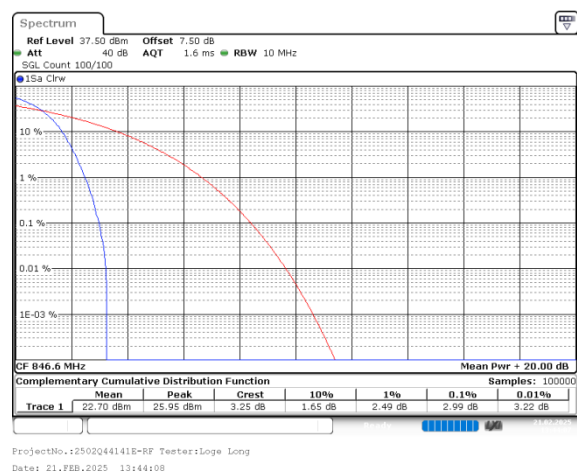
R99_Low



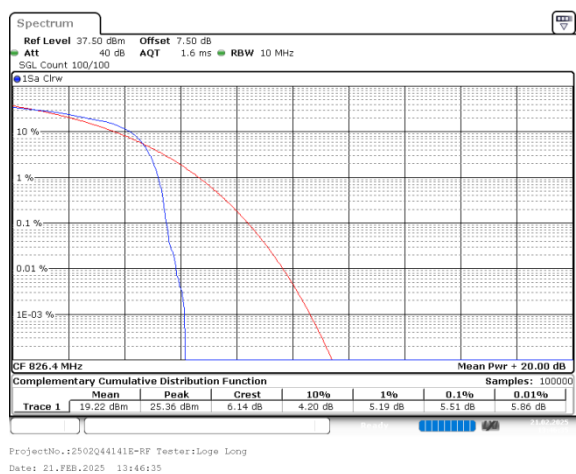
R99_Middle



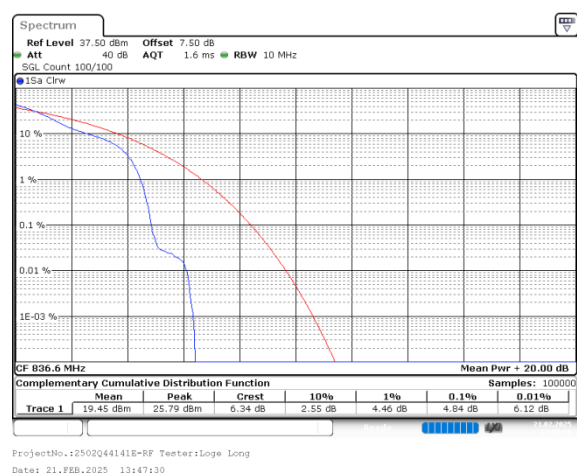
R99_High



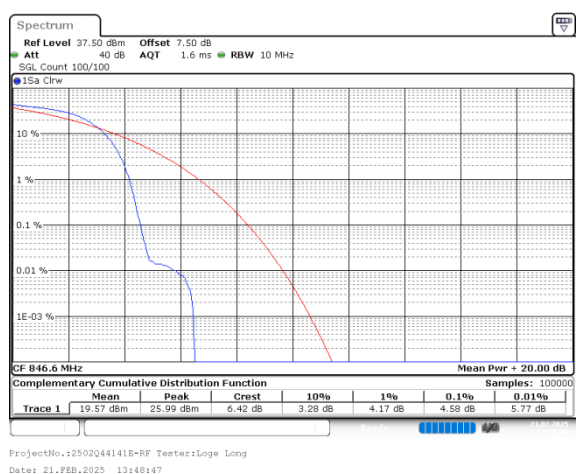
HSDPA_Low_Subtest1



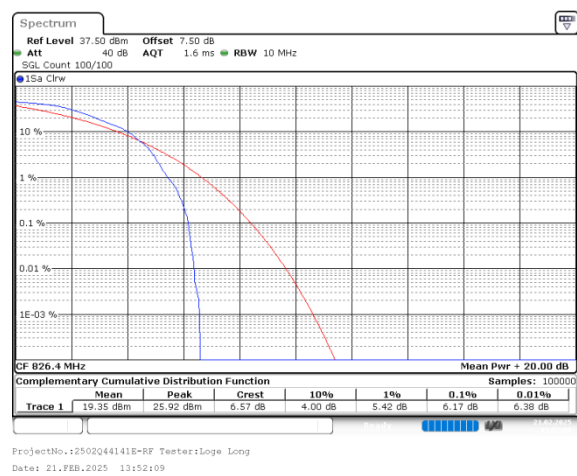
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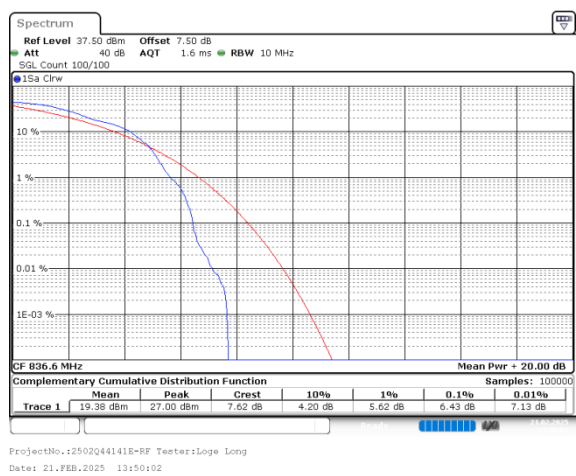
HSDPA_High_Subtest1



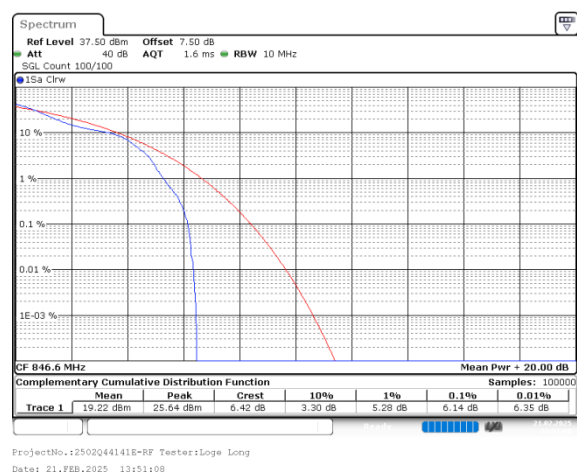
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1



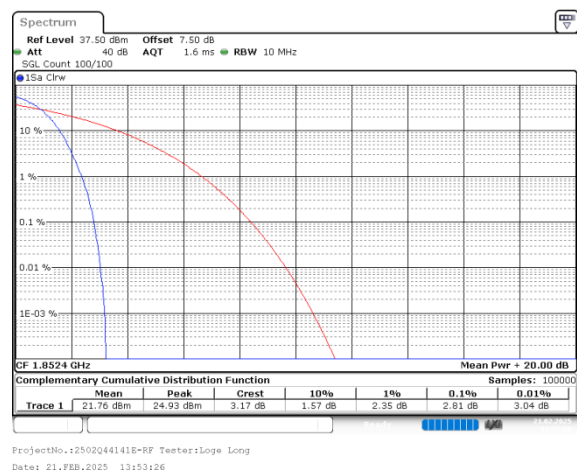
FCC Part 24E

Band 2 , Normal

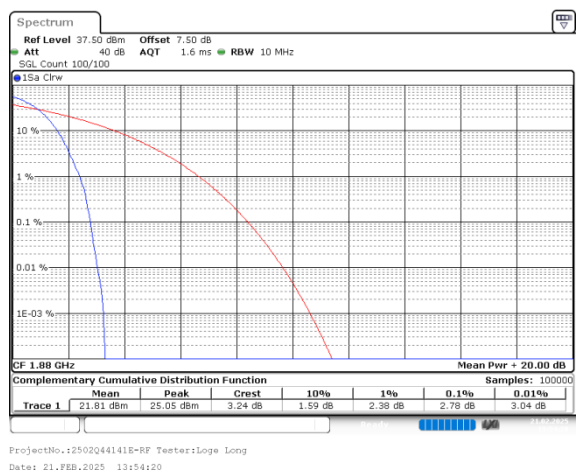
Mode	Result (dB)	Limit (dB)
R99_Low	2.81	13
R99_Middle	2.78	13
R99_High	2.84	13
HSDPA_Low_Subtest1	5.10	13
HSDPA_Middle_Subtest1	5.01	13
HSDPA_High_Subtest1	3.33	13
HSUPA_Low_Subtest1	4.93	13
HSUPA_Middle_Subtest1	6.26	13
HSUPA_High_Subtest1	6.43	13

Band 2 , Normal

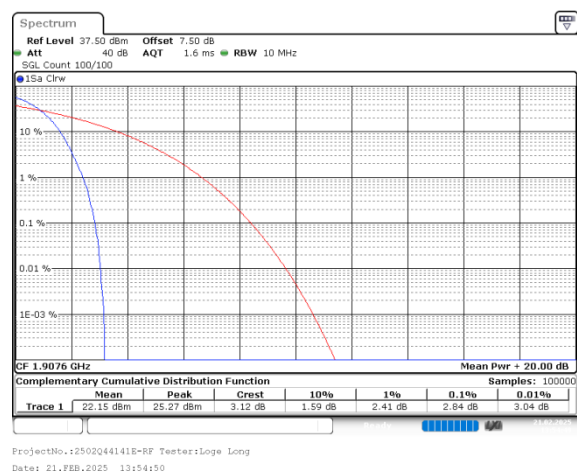
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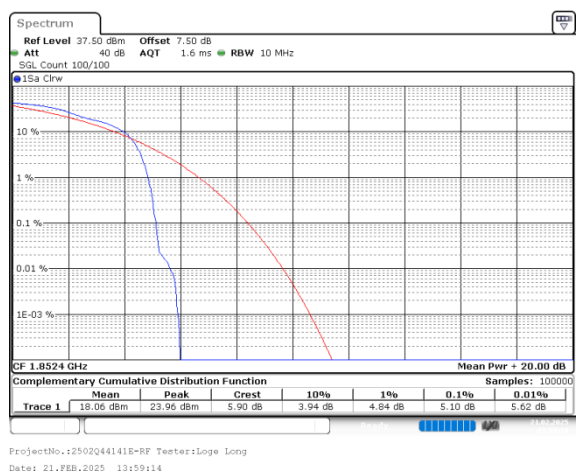
R99_Middle



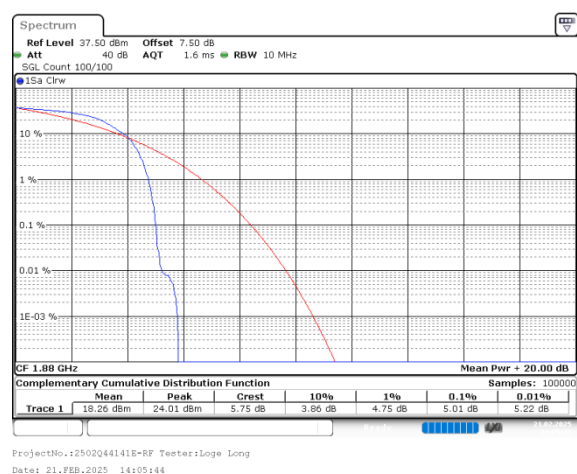
R99_High



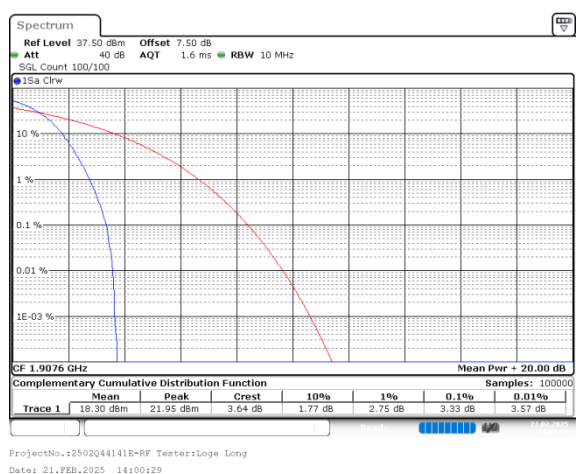
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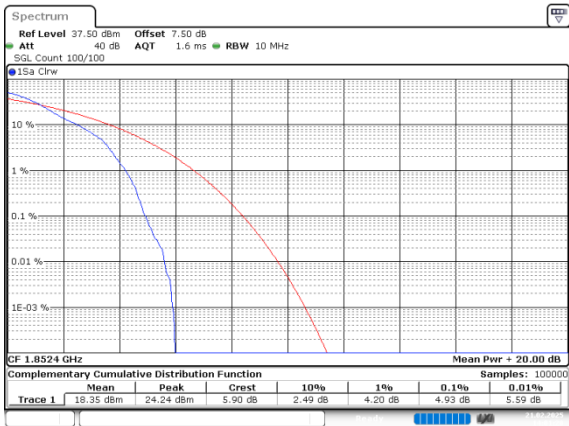
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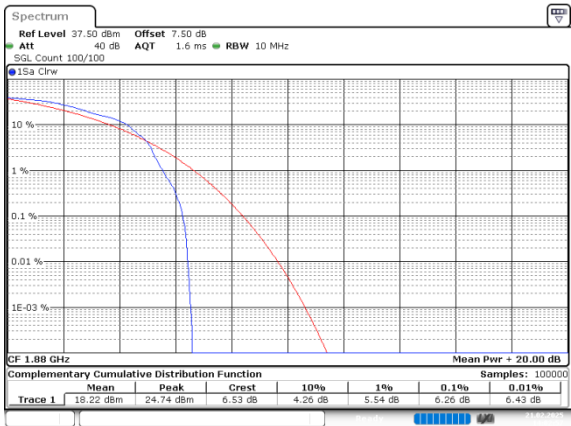
HSDPA_High_Subtest1



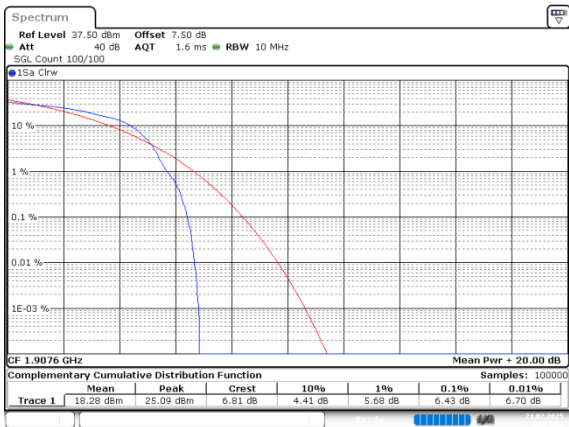
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1

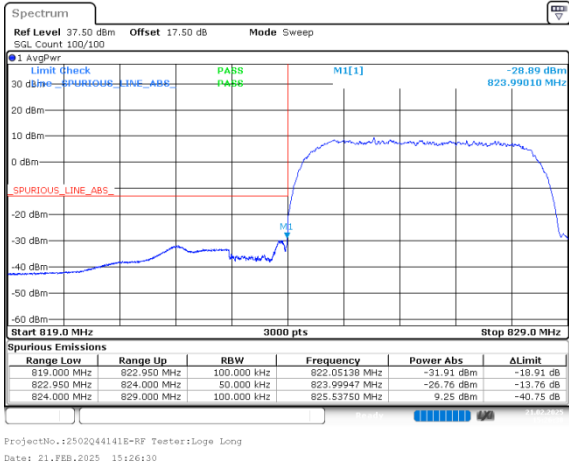


Out of band emission,Band Edge

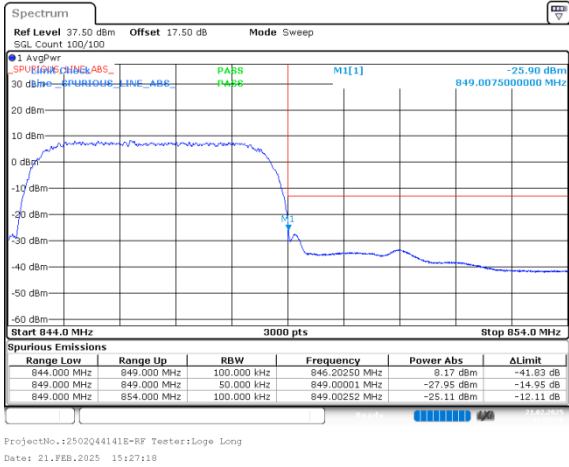
FCC Part 22H

Band 5 , Normal

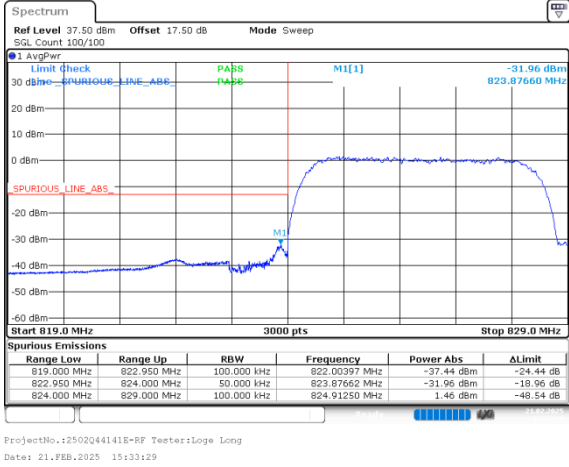
R99_Low



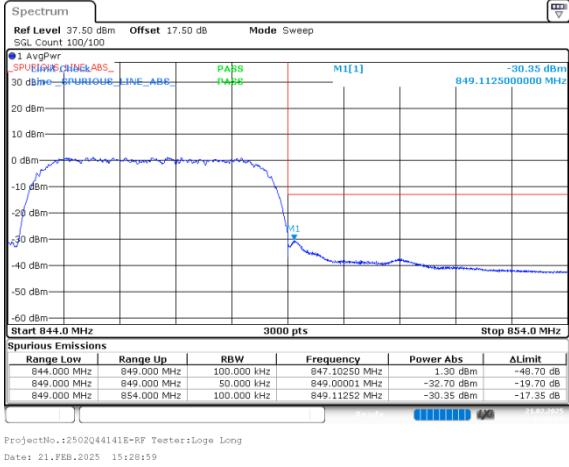
R99_High



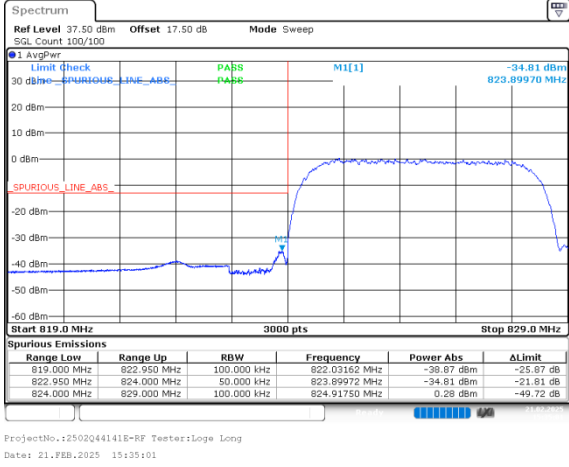
HSDPA_Low_Subtest1



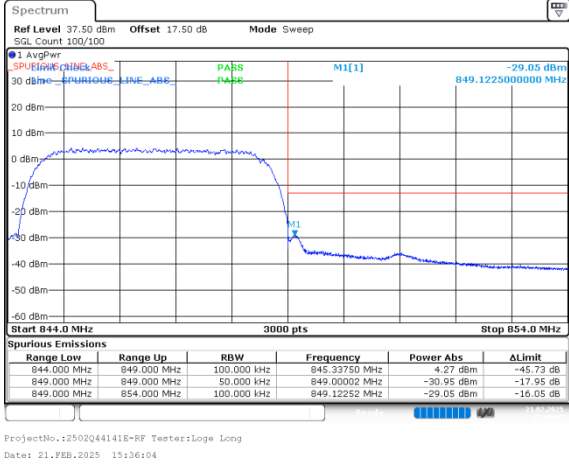
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



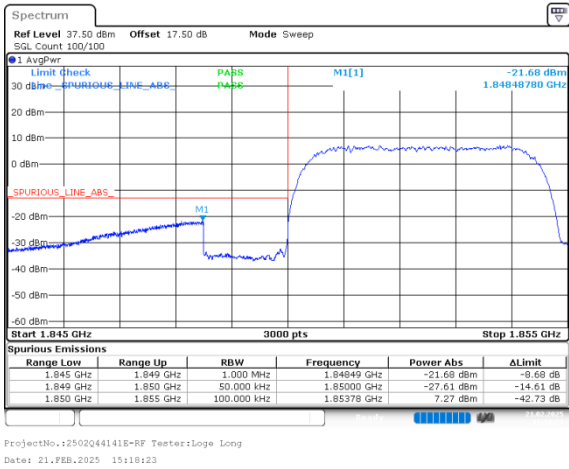
HSUPA_High_Subtest1



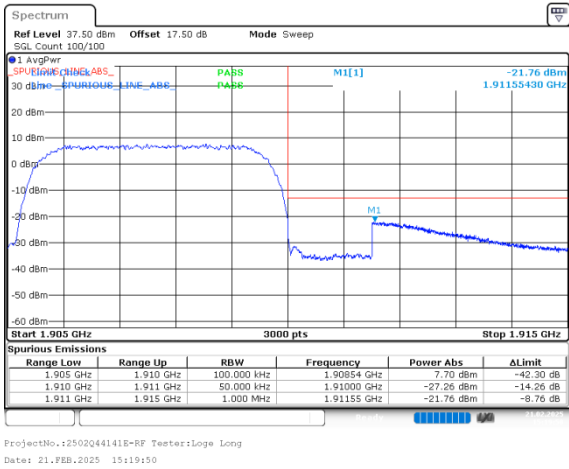
FCC Part 24E

Band 2 , Normal

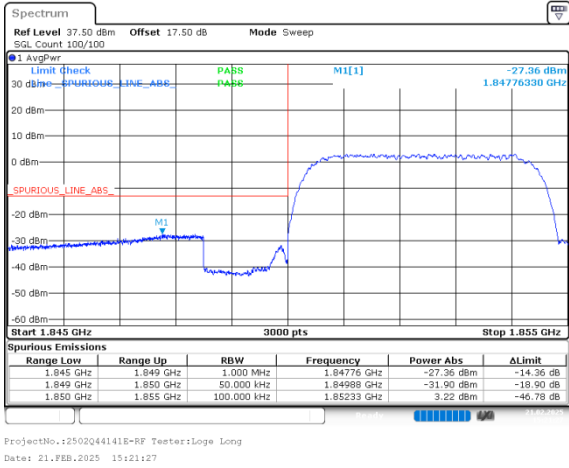
R99_Low



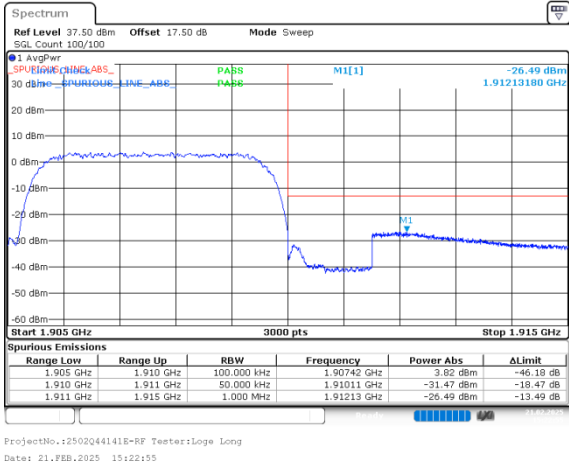
R99_High



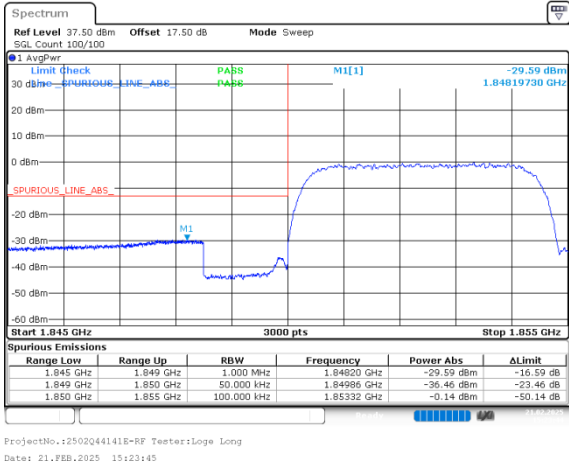
HSDPA_Low_Subtest1



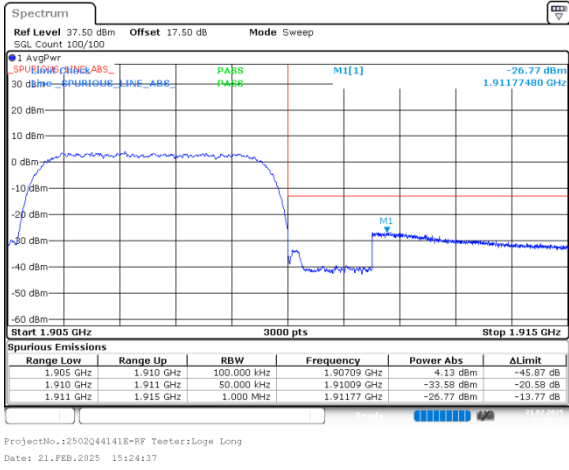
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



HSUPA_High_Subtest1

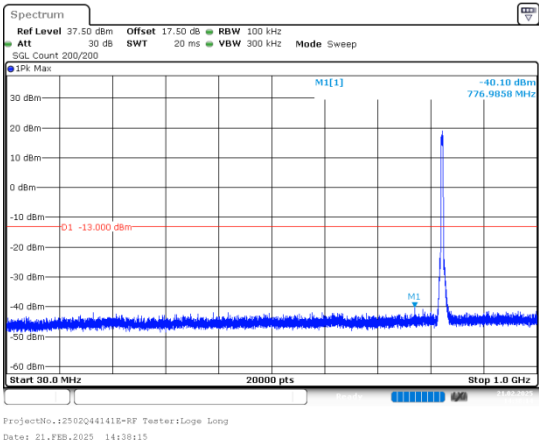


Spurious Emissions at Antenna Terminal

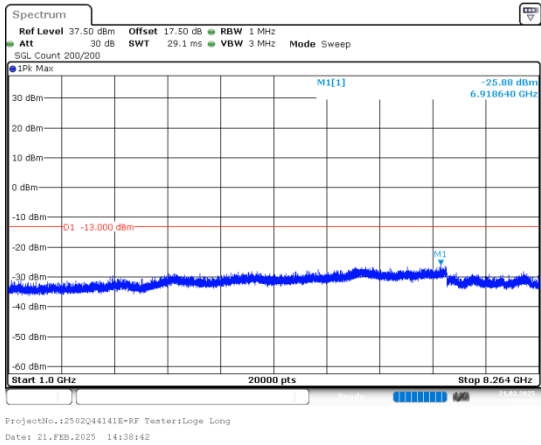
FCC Part 22H
Band 5 , Normal
Worst case

R99_Low

Below 1G

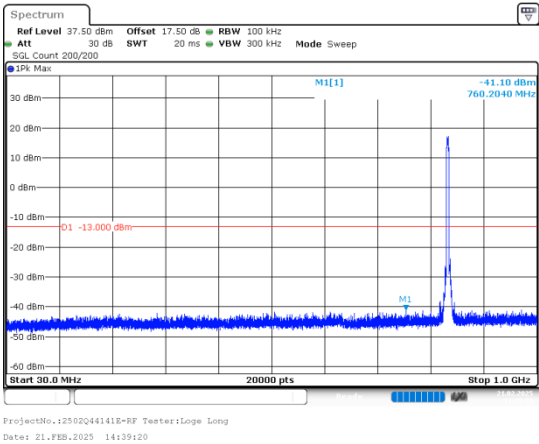


Above 1G

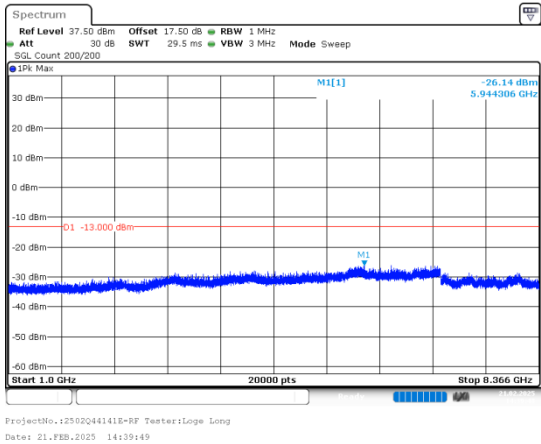


R99_Middle

Below 1G

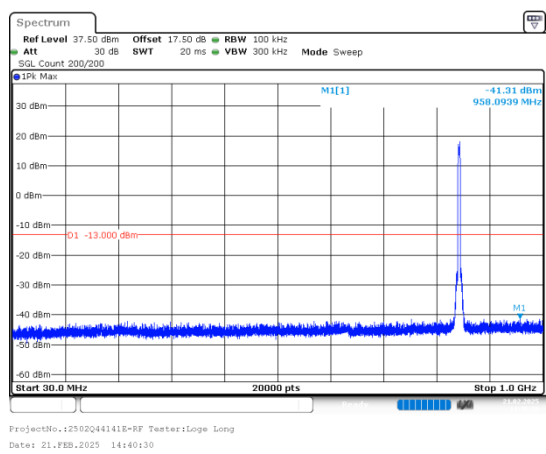


Above 1G

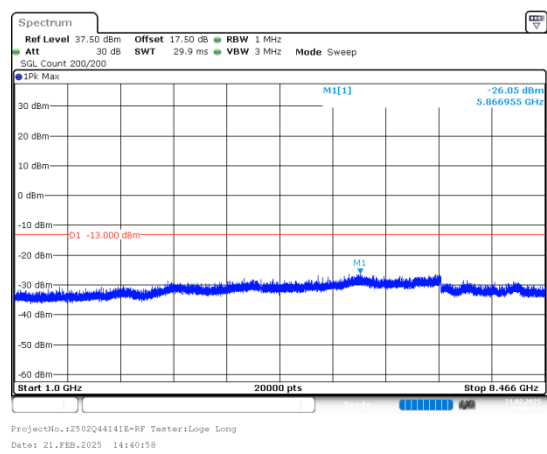


R99_High

Below 1G



Above 1G



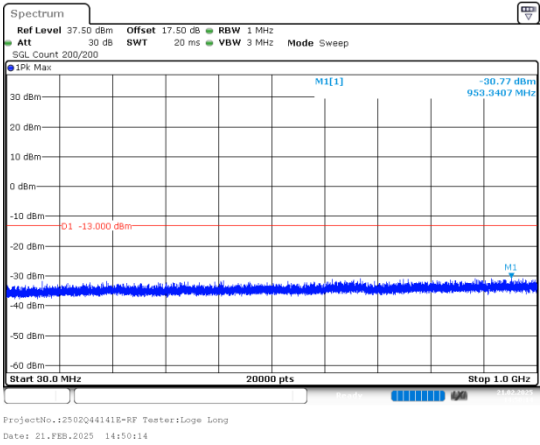
FCC Part 24E

Band 2 , Normal

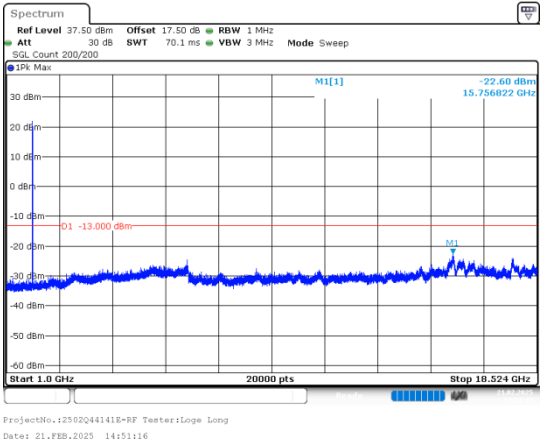
Worst case

R99_Low

Below 1G

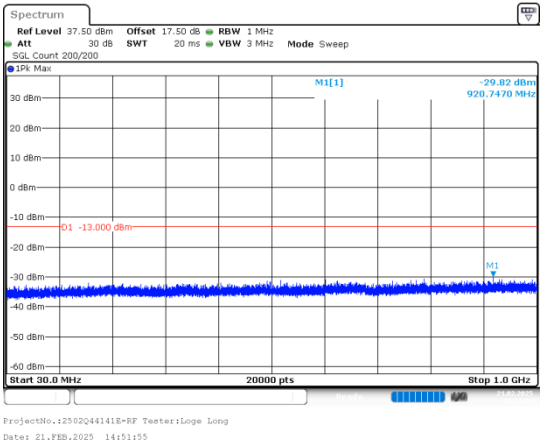


Above 1G

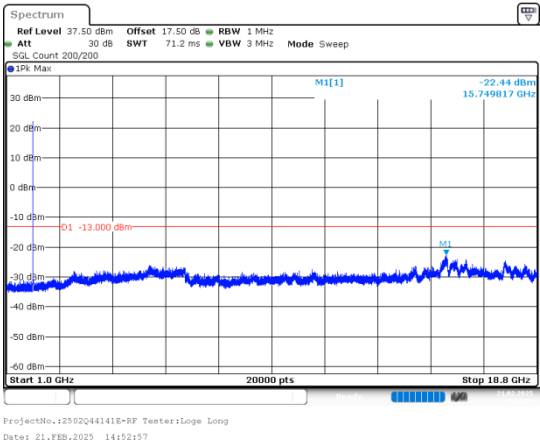


R99_Middle

Below 1G

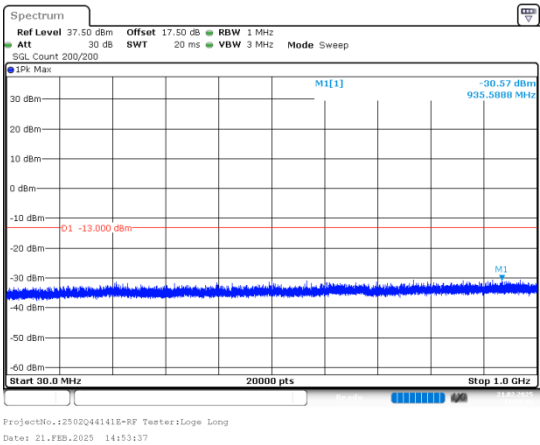


Above 1G

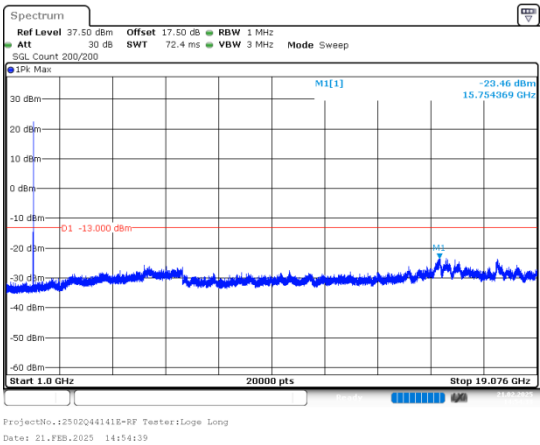


R99_High

Below 1G



Above 1G



***** END *****