

Appendix A

Test Information:

Serial No.:	30JI-2	Test Date:	2025/04/07~2025/04/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.0~23.7	Relative Humidity: (%)	49~60	ATM Pressure: (kPa)	101.0~101.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
Minl-Clrucits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2025/02/25	2026/02/24
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

GSM 850

Mode	Test Channel (MHz)	Frequency Error		Limit (ppm)	Verdict
		(Hz)	(ppm)		
GSM_Middle_TN/VN	836.6	8.2	0.0098	±2.5	Pass
GSM_Middle_T1/VN	836.6	7.7	0.0092	±2.5	Pass
GSM_Middle_T2/VN	836.6	9.3	0.0111	±2.5	Pass
GSM_Middle_T3/VN	836.6	9.9	0.0118	±2.5	Pass
GSM_Middle_T4/VN	836.6	10.2	0.0122	±2.5	Pass
GSM_Middle_T5/VN	836.6	8.6	0.0103	±2.5	Pass
GSM_Middle_T6/VN	836.6	10.7	0.0128	±2.5	Pass
GSM_Middle_T7/VN	836.6	9.3	0.0112	±2.5	Pass
GSM_Middle_T8/VN	836.6	10.0	0.0119	±2.5	Pass
GSM_Middle_TN/VH	836.6	10.7	0.0128	±2.5	Pass
GSM_Middle_TN/VL	836.6	9.6	0.0115	±2.5	Pass
EDGE_Middle_Slot1_TN/VN	836.6	3.8	0.0045	±2.5	Pass
EDGE_Middle_Slot1_T1/VN	836.6	9.2	0.0110	±2.5	Pass
EDGE_Middle_Slot1_T2/VN	836.6	8.2	0.0098	±2.5	Pass
EDGE_Middle_Slot1_T3/VN	836.6	3.7	0.0044	±2.5	Pass
EDGE_Middle_Slot1_T4/VN	836.6	7.3	0.0087	±2.5	Pass
EDGE_Middle_Slot1_T5/VN	836.6	8.4	0.0101	±2.5	Pass
EDGE_Middle_Slot1_T6/VN	836.6	10.5	0.0125	±2.5	Pass
EDGE_Middle_Slot1_T7/VN	836.6	5.1	0.0061	±2.5	Pass
EDGE_Middle_Slot1_T8/VN	836.6	5.6	0.0066	±2.5	Pass
EDGE_Middle_Slot1_TN/VH	836.6	5.3	0.0063	±2.5	Pass
EDGE_Middle_Slot1_TN/VL	836.6	9.8	0.0117	±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

GSM 1900

Mode	Result (MHz)	Limit (MHz)	Verdict
GSM_Low_TN/VN	1850.083	1850	Pass
GSM_Low_T1/VN	1850.079	1850	Pass
GSM_Low_T2/VN	1850.078	1850	Pass
GSM_Low_T3/VN	1850.078	1850	Pass
GSM_Low_T4/VN	1850.081	1850	Pass
GSM_Low_T5/VN	1850.082	1850	Pass
GSM_Low_T6/VN	1850.081	1850	Pass
GSM_Low_T7/VN	1850.079	1850	Pass
GSM_Low_T8/VN	1850.081	1850	Pass
GSM_Low_TN/VH	1850.080	1850	Pass
GSM_Low_TN/VL	1850.079	1850	Pass
GSM_High_TN/VN	1909.926	1910	Pass
GSM_High_T1/VN	1909.929	1910	Pass
GSM_High_T2/VN	1909.925	1910	Pass
GSM_High_T3/VN	1909.925	1910	Pass
GSM_High_T4/VN	1909.928	1910	Pass
GSM_High_T5/VN	1909.927	1910	Pass
GSM_High_T6/VN	1909.928	1910	Pass
GSM_High_T7/VN	1909.927	1910	Pass
GSM_High_T8/VN	1909.926	1910	Pass
GSM_High_TN/VH	1909.923	1910	Pass
GSM_High_TN/VL	1909.928	1910	Pass
EDGE_Low_Slot1_TN/VN	1850.081	1850	Pass
EDGE_Low_Slot1_T1/VN	1850.081	1850	Pass
EDGE_Low_Slot1_T2/VN	1850.084	1850	Pass
EDGE_Low_Slot1_T3/VN	1850.077	1850	Pass
EDGE_Low_Slot1_T4/VN	1850.077	1850	Pass
EDGE_Low_Slot1_T5/VN	1850.081	1850	Pass
EDGE_Low_Slot1_T6/VN	1850.080	1850	Pass
EDGE_Low_Slot1_T7/VN	1850.077	1850	Pass

Mode	Result (MHz)	Limit (MHz)	Verdict
EDGE_Low_Slot1_T8/VN	1850.079	1850	Pass
EDGE_Low_Slot1_TN/VH	1850.079	1850	Pass
EDGE_Low_Slot1_TN/VL	1850.078	1850	Pass
EDGE_High_Slot1_TN/VN	1909.923	1910	Pass
EDGE_High_Slot1_T1/VN	1909.924	1910	Pass
EDGE_High_Slot1_T2/VN	1909.926	1910	Pass
EDGE_High_Slot1_T3/VN	1909.922	1910	Pass
EDGE_High_Slot1_T4/VN	1909.924	1910	Pass
EDGE_High_Slot1_T5/VN	1909.925	1910	Pass
EDGE_High_Slot1_T6/VN	1909.925	1910	Pass
EDGE_High_Slot1_T7/VN	1909.926	1910	Pass
EDGE_High_Slot1_T8/VN	1909.925	1910	Pass
EDGE_High_Slot1_TN/VH	1909.926	1910	Pass
EDGE_High_Slot1_TN/VL	1909.924	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

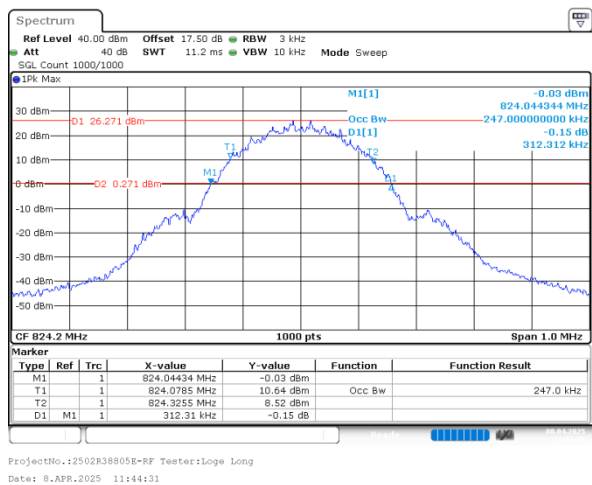
FCC Part 22H

GSM 850 , Normal

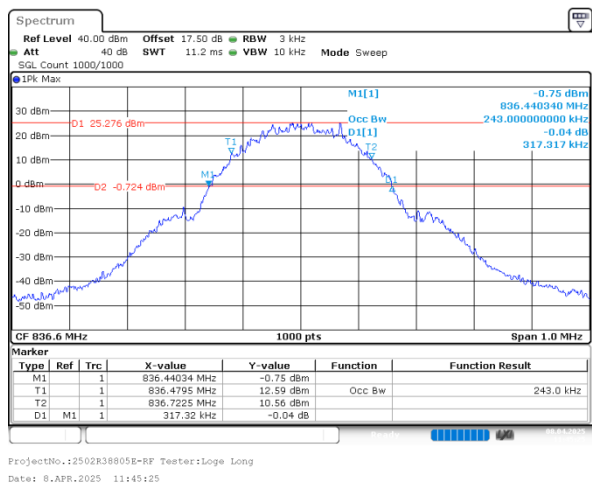
Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.247	0.312
GSM_Middle	0.243	0.317
GSM_High	0.246	0.315
EDGE_Low_Slot1	0.243	0.307
EDGE_Middle_Slot1	0.245	0.311
EDGE_High_Slot1	0.241	0.309

GSM 850 , Normal

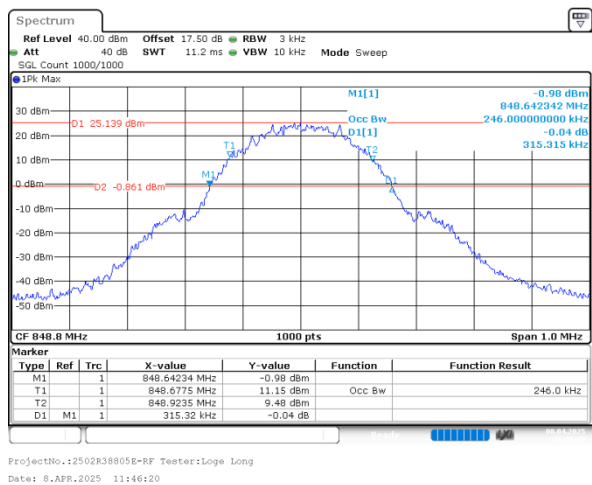
GSM_Low



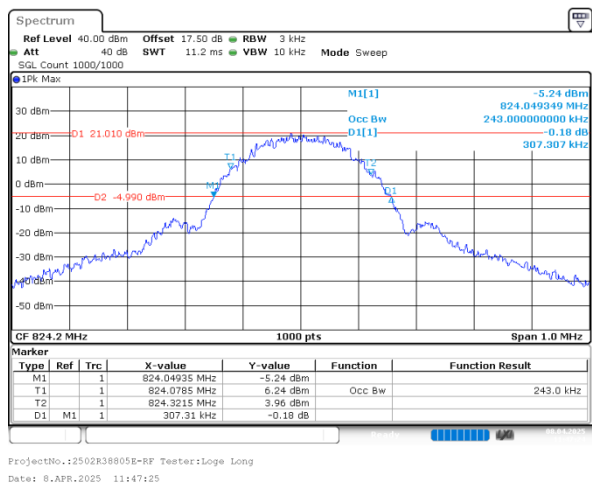
GSM_Middle



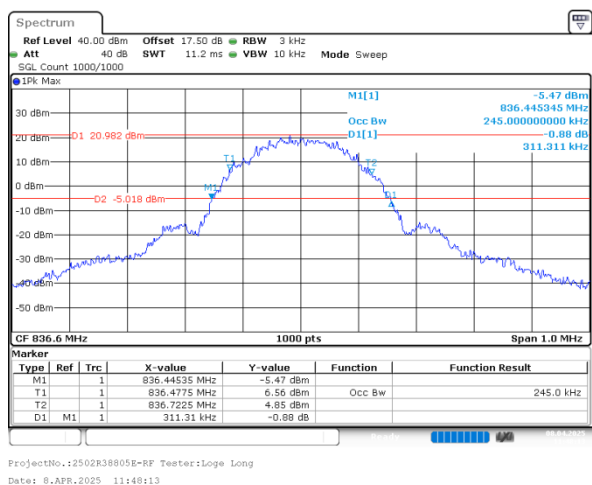
GSM_High



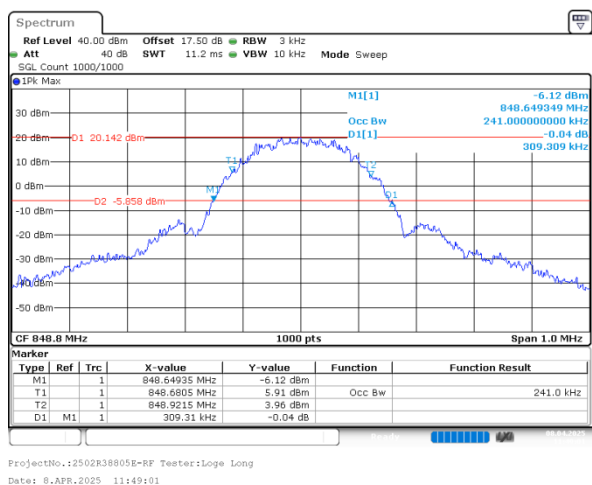
EDGE_Low_Slot1



EDGE_Middle_Slot1



EDGE_High_Slot1



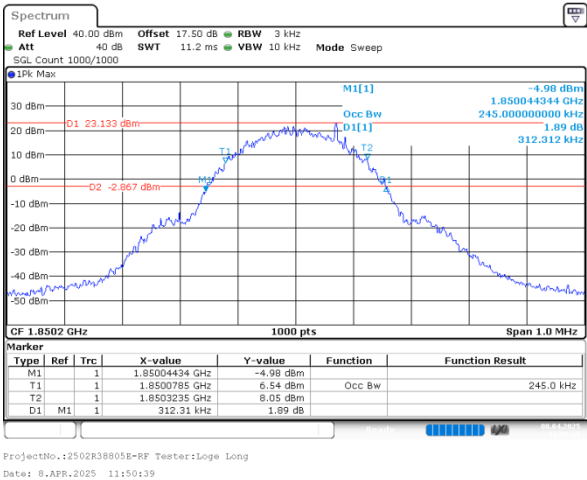
FCC Part 24E

GSM 1900 , Normal

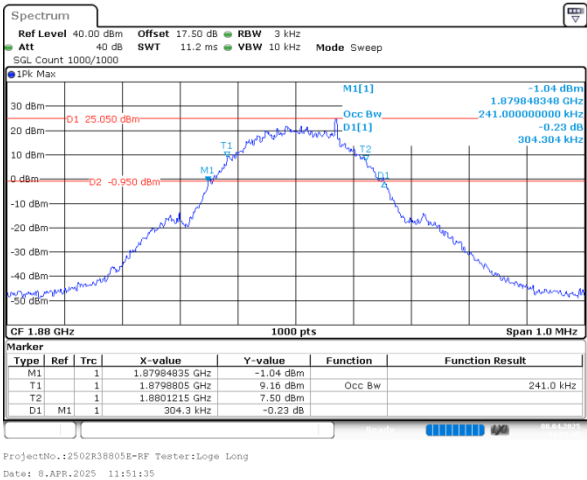
Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.245	0.312
GSM_Middle	0.241	0.304
GSM_High	0.243	0.322
EDGE_Low_Slot1	0.246	0.306
EDGE_Middle_Slot1	0.244	0.305
EDGE_High_Slot1	0.246	0.309

GSM 1900 , Normal

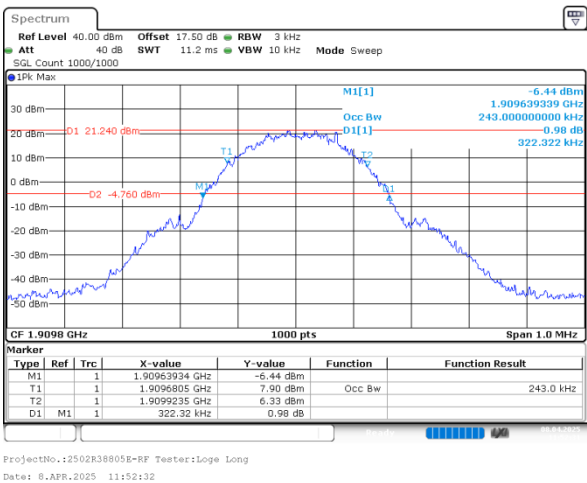
GSM_Low



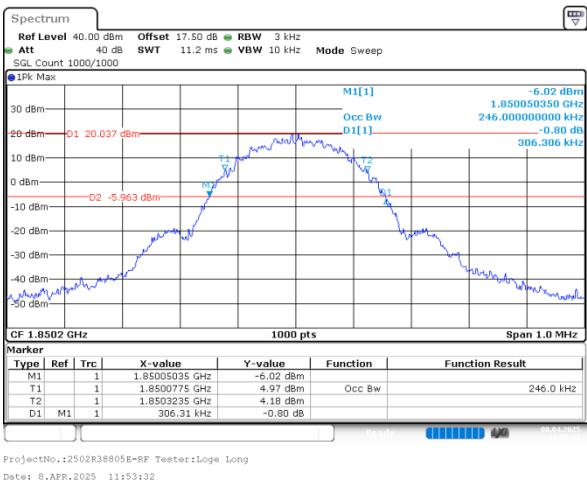
GSM_Middle



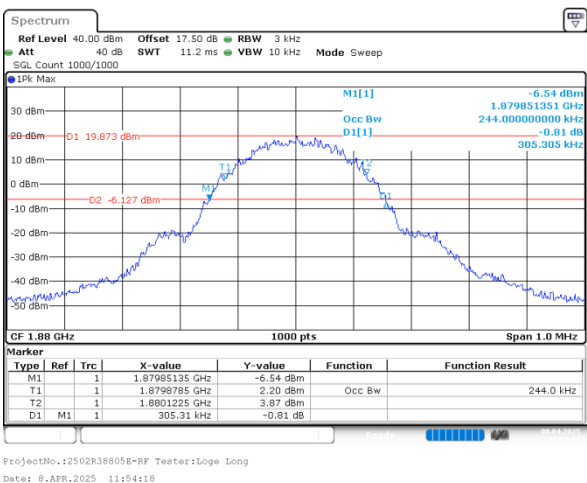
GSM_High



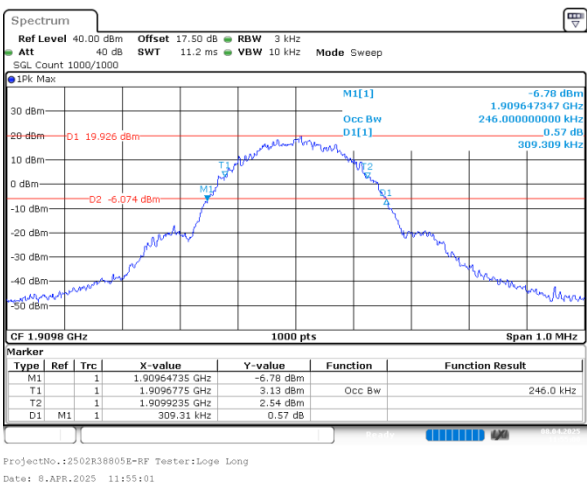
EDGE_Low_Slot1



EDGE_Middle_Slot1



EDGE_High_Slot1



RF Output Power**FCC Part 22H****GSM 850 , Normal**

Mode	Average Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
GSM_Low	31.94	24.70	38.45	Pass
GSM_Middle	31.93	24.69	38.45	Pass
GSM_High	31.89	24.65	38.45	Pass
GPRS_Low_Slot1	31.91	24.67	38.45	Pass
GPRS_Low_Slot2	31.23	23.99	38.45	Pass
GPRS_Low_Slot3	29.66	22.42	38.45	Pass
GPRS_Low_Slot4	28.44	21.20	38.45	Pass
GPRS_Middle_Slot1	31.89	24.65	38.45	Pass
GPRS_Middle_Slot2	31.25	24.01	38.45	Pass
GPRS_Middle_Slot3	29.66	22.42	38.45	Pass
GPRS_Middle_Slot4	28.49	21.25	38.45	Pass
GPRS_High_Slot1	31.90	24.66	38.45	Pass
GPRS_High_Slot2	31.24	24.00	38.45	Pass
GPRS_High_Slot3	29.66	22.42	38.45	Pass
GPRS_High_Slot4	28.49	21.25	38.45	Pass
EDGE_Low_Slot1	27.27	20.03	38.45	Pass
EDGE_Low_Slot2	26.18	18.94	38.45	Pass
EDGE_Low_Slot3	23.74	16.50	38.45	Pass
EDGE_Low_Slot4	22.73	15.49	38.45	Pass
EDGE_Middle_Slot1	27.23	19.99	38.45	Pass
EDGE_Middle_Slot2	26.20	18.96	38.45	Pass
EDGE_Middle_Slot3	23.77	16.53	38.45	Pass
EDGE_Middle_Slot4	22.65	15.41	38.45	Pass
EDGE_High_Slot1	27.35	20.11	38.45	Pass
EDGE_High_Slot2	26.23	18.99	38.45	Pass
EDGE_High_Slot3	23.84	16.60	38.45	Pass
EDGE_High_Slot4	22.72	15.48	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 = -4.99dBi;

2.Cable Loss = 0.1dB.

FCC Part 24E

GSM 1900 , Normal

Mode	Average Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
GSM_Low	29.15	25.85	33	Pass
GSM_Middle	29.12	25.82	33	Pass
GSM_High	29.03	25.73	33	Pass
GPRS_Low_Slot1	28.99	25.69	33	Pass
GPRS_Low_Slot2	28.27	24.97	33	Pass
GPRS_Low_Slot3	26.58	23.28	33	Pass
GPRS_Low_Slot4	25.38	22.08	33	Pass
GPRS_Middle_Slot1	29.11	25.81	33	Pass
GPRS_Middle_Slot2	28.35	25.05	33	Pass
GPRS_Middle_Slot3	26.67	23.37	33	Pass
GPRS_Middle_Slot4	25.48	22.18	33	Pass
GPRS_High_Slot1	29.04	25.74	33	Pass
GPRS_High_Slot2	28.28	24.98	33	Pass
GPRS_High_Slot3	26.58	23.28	33	Pass
GPRS_High_Slot4	25.37	22.07	33	Pass
EDGE_Low_Slot1	26.04	22.74	33	Pass
EDGE_Low_Slot2	25.27	21.97	33	Pass
EDGE_Low_Slot3	23.14	19.84	33	Pass
EDGE_Low_Slot4	22.03	18.73	33	Pass
EDGE_Middle_Slot1	26.33	23.03	33	Pass
EDGE_Middle_Slot2	25.13	21.83	33	Pass
EDGE_Middle_Slot3	23.05	19.75	33	Pass
EDGE_Middle_Slot4	21.85	18.55	33	Pass
EDGE_High_Slot1	26.33	23.03	33	Pass
EDGE_High_Slot2	25.09	21.79	33	Pass
EDGE_High_Slot3	22.94	19.64	33	Pass
EDGE_High_Slot4	21.83	18.53	33	Pass

Note:

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

1.Antenna Gain = -3.1dBi;

2.Cable Loss = 0.2dB.

Peak-to-average Ratio(PAR)

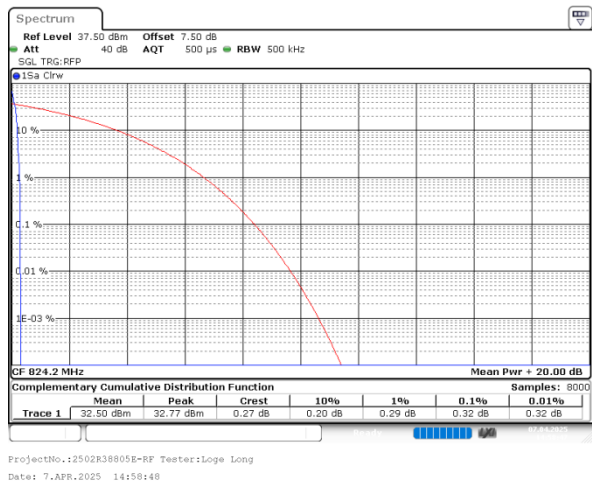
FCC Part 22H

GSM 850 , Normal

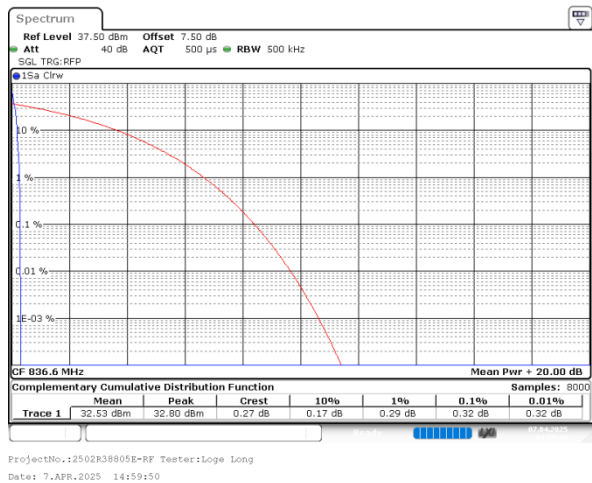
Mode	Result (dB)	Limit (dB)
GSM_Low	0.32	13
GSM_Middle	0.32	13
GSM_High	0.35	13

GSM 850 , Normal

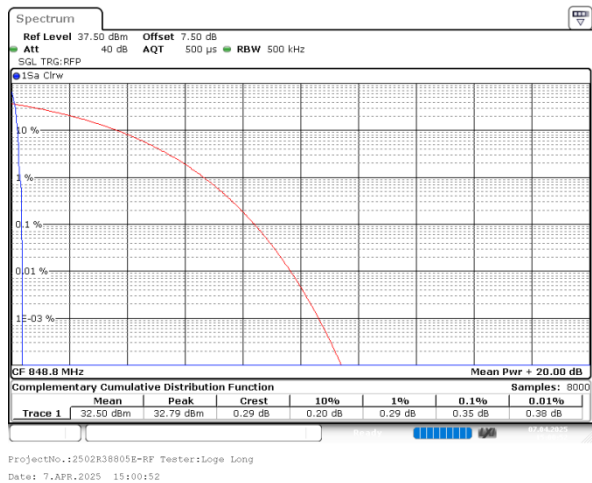
GSM_Low



GSM_Middle



GSM_High



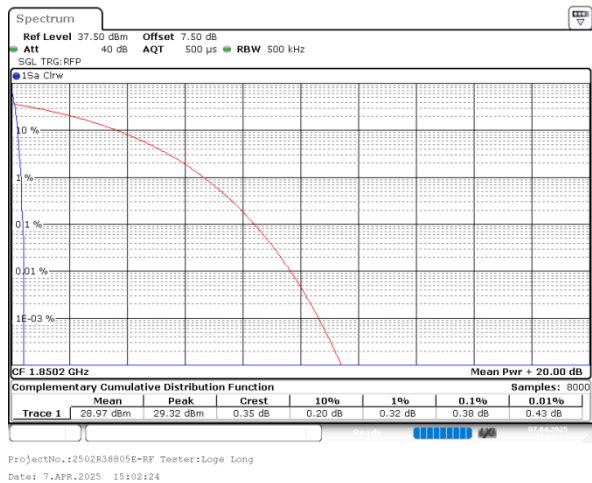
FCC Part 24E

GSM 1900 , Normal

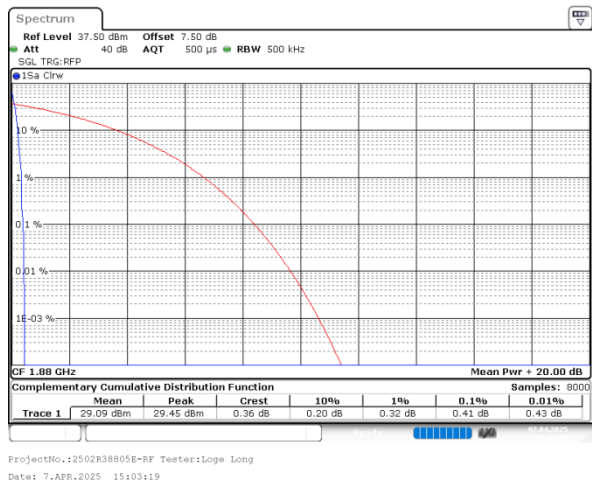
Mode	Result (dB)	Limit (dB)
GSM_Low	0.38	13
GSM_Middle	0.41	13
GSM_High	0.38	13

GSM 1900 , Normal

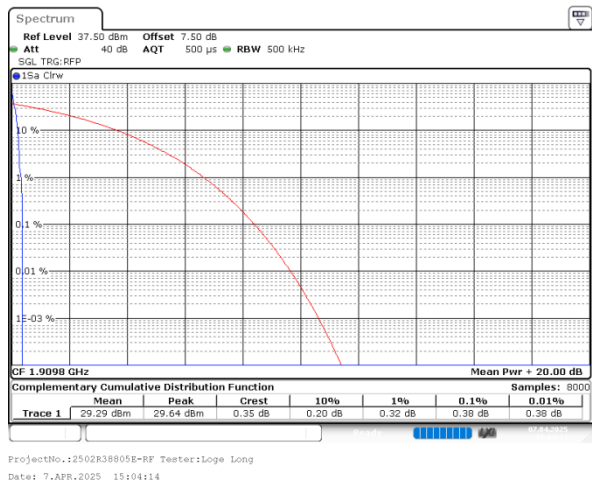
GSM_Low



GSM_Middle



GSM_High

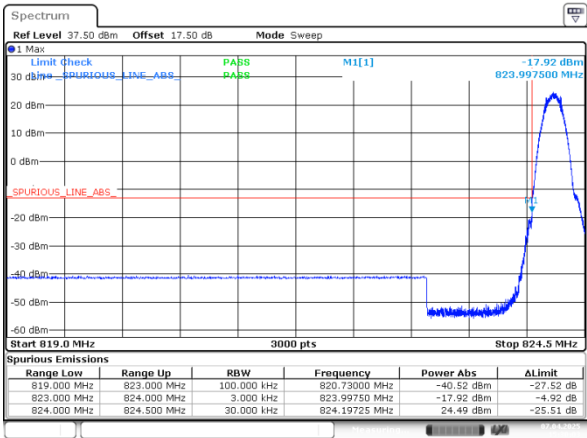


Out of band emission,Band Edge

FCC Part 22H

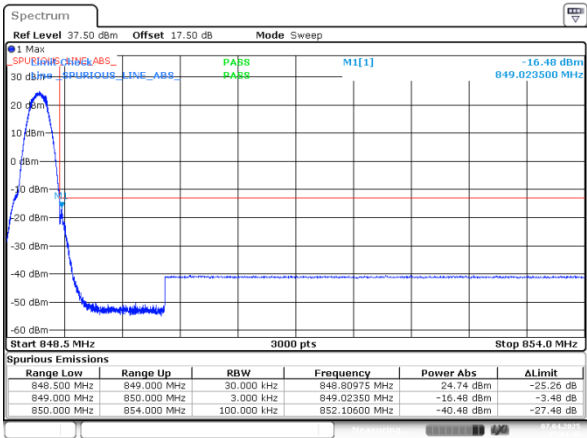
GSM 850 , Normal

GSM_Low



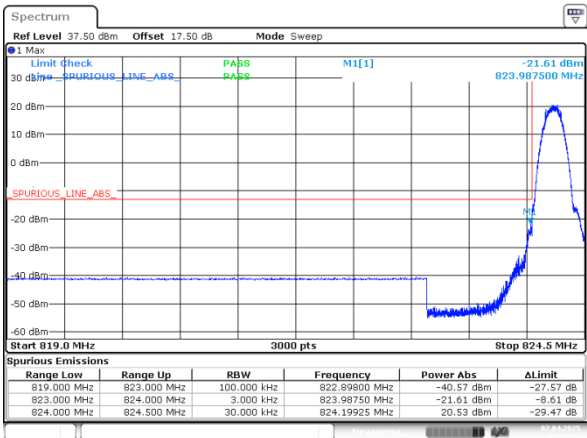
ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:30:04

GSM_High



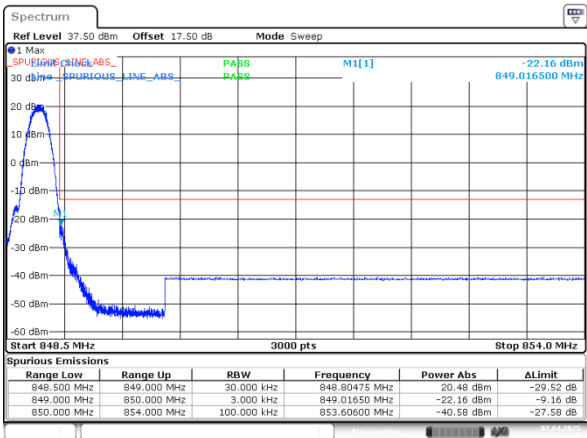
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EDGE_Low_Slot1



ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:37:54

EDGE_High_Slot1

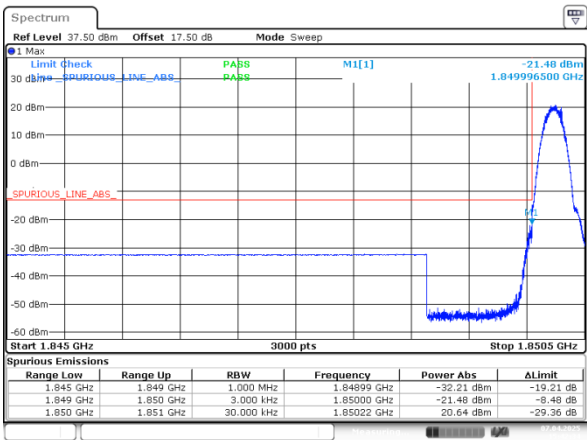


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FCC Part 24E

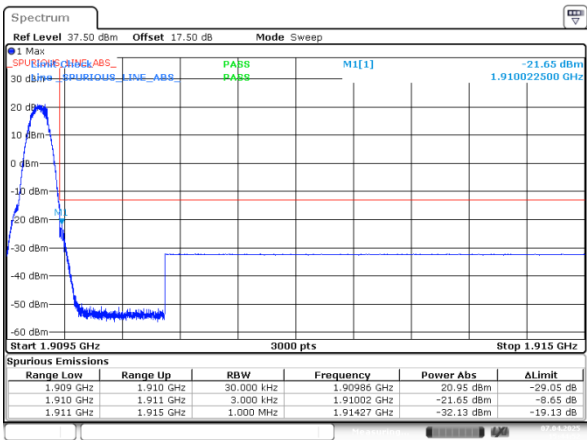
GSM 1900 , Normal

GSM_Low



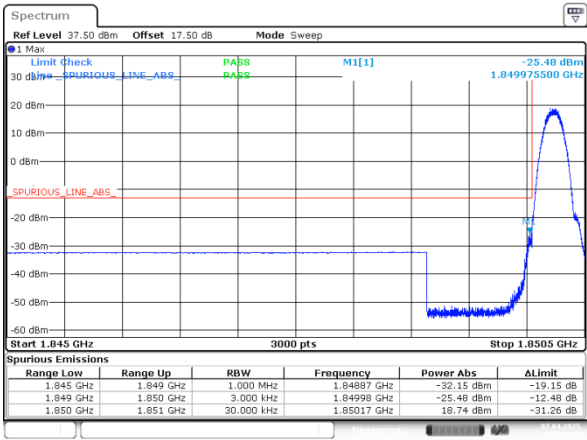
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GSM_High



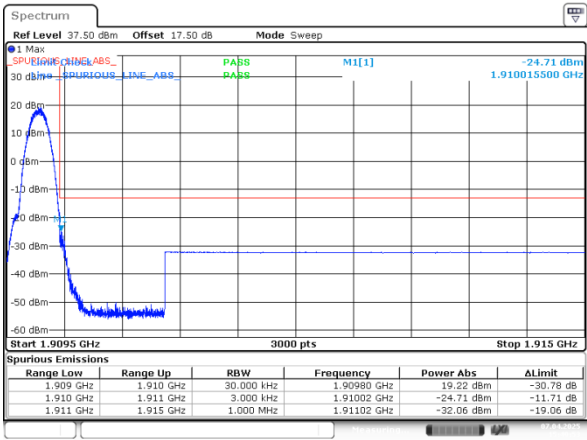
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EDGE_Low_Slot1



ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:47:50

EDGE_High_Slot1



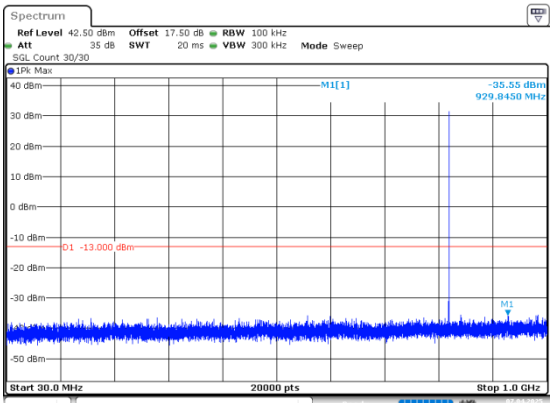
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Spurious Emissions at Antenna Terminal

FCC Part 22H
GSM 850 , Normal

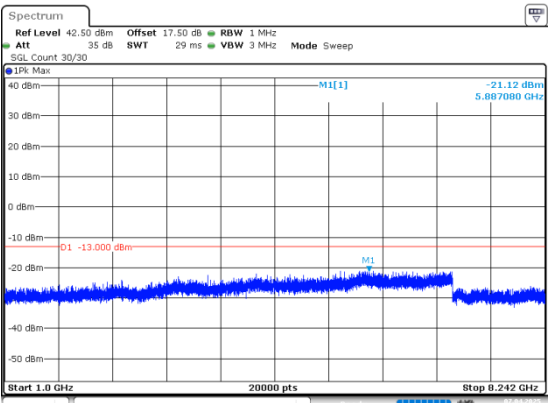
GSM_Low

Below 1G



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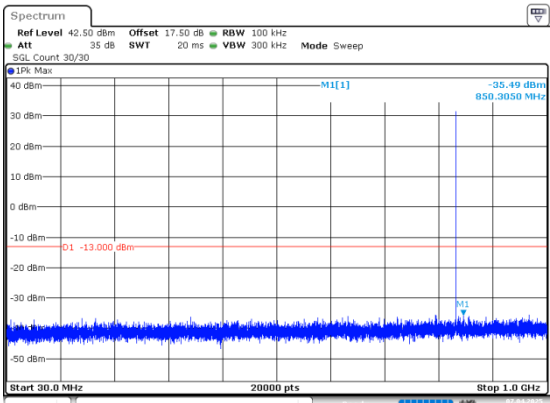
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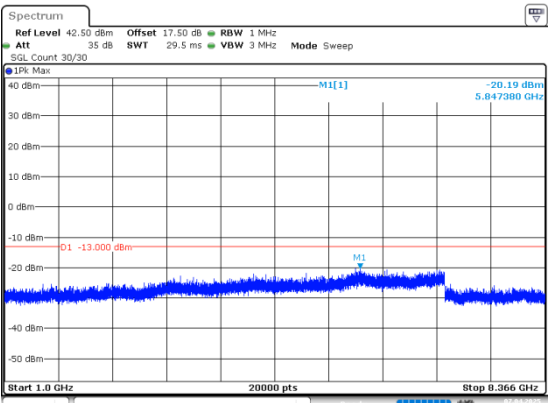
GSM_Middle

Below 1G



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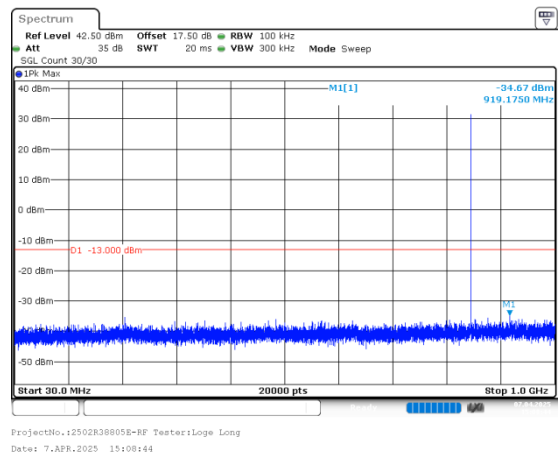
Above 1G



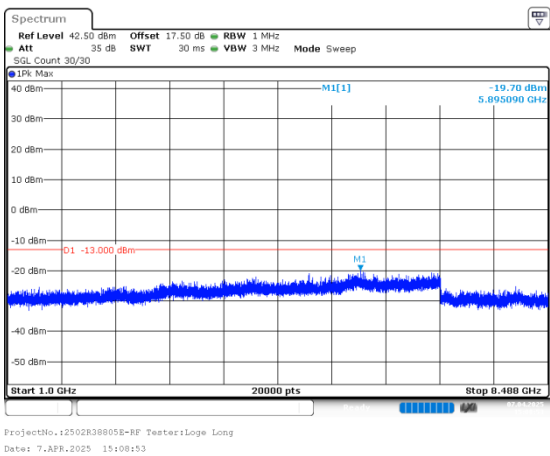
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GSM_High

Below 1G



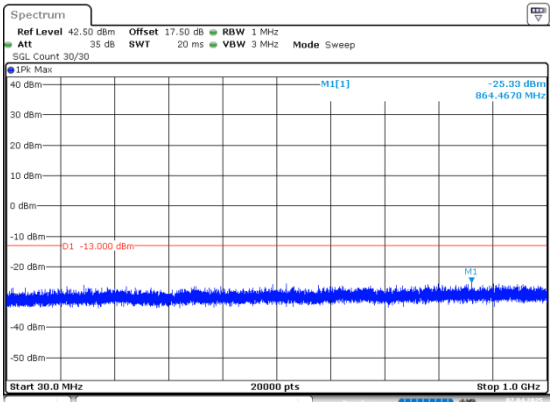
Above 1G



FCC Part 24E
GSM 1900 , Normal

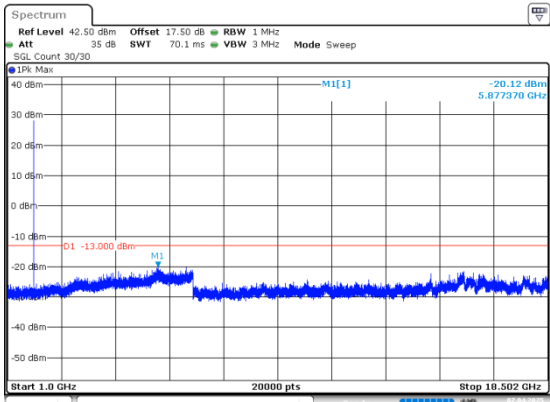
GSM_Low

Below 1G



ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:10:15

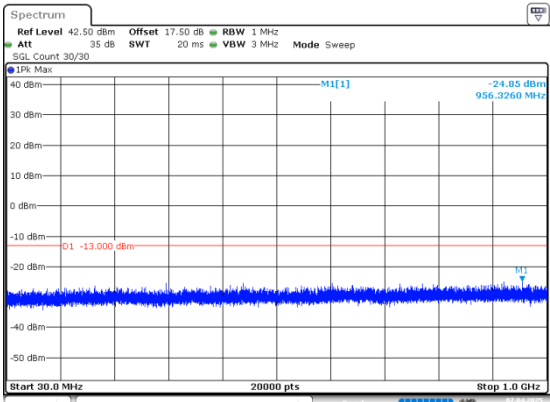
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ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:10:29

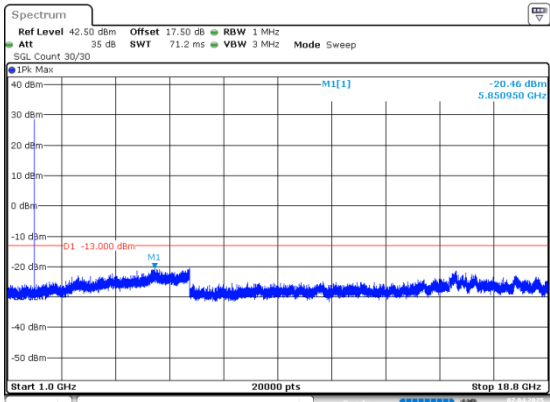
GSM_Middle

Below 1G



ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:11:07

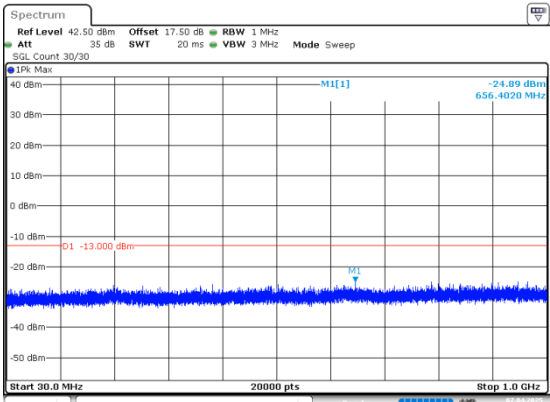
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ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:11:21

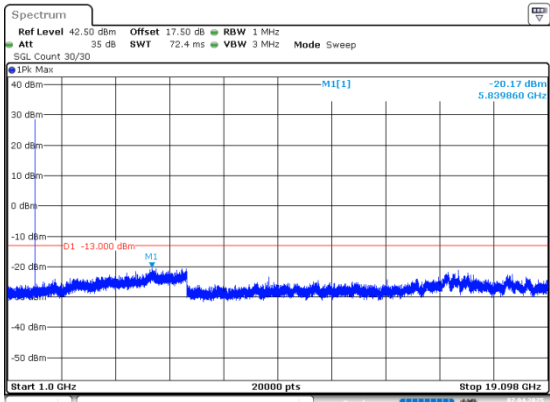
GSM_High

Below 1G



ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:11:58

Above 1G



ProjectNo.:2502R38805E-RF Tester:Loge Long
Date: 7.APR.2025 15:12:12

**** END ****