

Appendix B

Test Information:

Serial No.:	2RBX-3	Test Date:	2024/10/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.6	Relative Humidity: (%)	48	ATM Pressure: (kPa)	100.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Micro-Coax	Coaxial Cable	UFB205A	323308-018	2024/01/02	2025/01/01
Minl-Clruids	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/02/25	2025/02/24
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	-0.1	-0.0001	±2.5	Pass
R99_Middle_T1/VN	836.6	-0.4	-0.0005	±2.5	Pass
R99_Middle_T2/VN	836.6	-0.3	-0.0003	±2.5	Pass
R99_Middle_T3/VN	836.6	1.6	0.0019	±2.5	Pass
R99_Middle_T4/VN	836.6	-1.8	-0.0021	±2.5	Pass
R99_Middle_T5/VN	836.6	-2.3	-0.0028	±2.5	Pass
R99_Middle_T6/VN	836.6	-0.7	-0.0009	±2.5	Pass
R99_Middle_T7/VN	836.6	-0.4	-0.0005	±2.5	Pass
R99_Middle_T8/VN	836.6	-1.2	-0.0015	±2.5	Pass
R99_Middle_TN/VH	836.6	-0.4	-0.0005	±2.5	Pass
R99_Middle_TN/VL	836.6	-1.0	-0.0012	±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	1850.345	1850	Pass
R99_Low_T1/VN	1850.345	1850	Pass
R99_Low_T2/VN	1850.335	1850	Pass
R99_Low_T3/VN	1850.335	1850	Pass
R99_Low_T4/VN	1850.335	1850	Pass
R99_Low_T5/VN	1850.315	1850	Pass
R99_Low_T6/VN	1850.345	1850	Pass
R99_Low_T7/VN	1850.305	1850	Pass
R99_Low_T8/VN	1850.315	1850	Pass
R99_Low_TN/VH	1850.345	1850	Pass
R99_Low_TN/VL	1850.335	1850	Pass
R99_High_TN/VN	1909.675	1910	Pass
R99_High_T1/VN	1909.685	1910	Pass
R99_High_T2/VN	1909.685	1910	Pass
R99_High_T3/VN	1909.695	1910	Pass
R99_High_T4/VN	1909.685	1910	Pass
R99_High_T5/VN	1909.685	1910	Pass
R99_High_T6/VN	1909.665	1910	Pass
R99_High_T7/VN	1909.655	1910	Pass
R99_High_T8/VN	1909.675	1910	Pass
R99_High_TN/VH	1909.665	1910	Pass
R99_High_TN/VL	1909.675	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

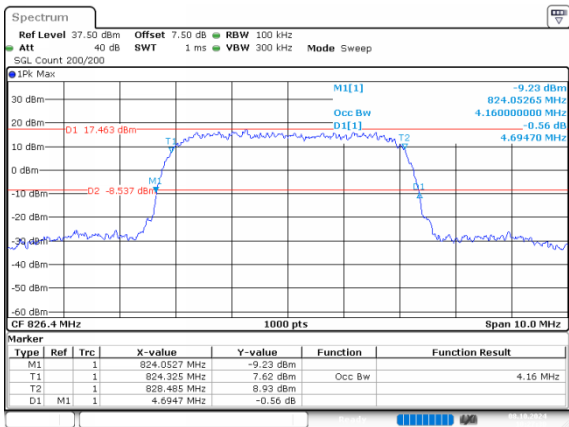
FCC Part 22H

Band 5 , Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.160	4.695
R99_Middle	4.150	4.635
R99_High	4.160	4.695
HSDPA_Low_Subtest1	4.140	4.665
HSDPA_Middle_Subtest1	4.180	4.725
HSDPA_High_Subtest1	4.180	4.675
HSUPA_Low_Subtest1	4.150	4.665
HSUPA_Middle_Subtest1	4.170	4.705
HSUPA_High_Subtest1	4.160	4.705

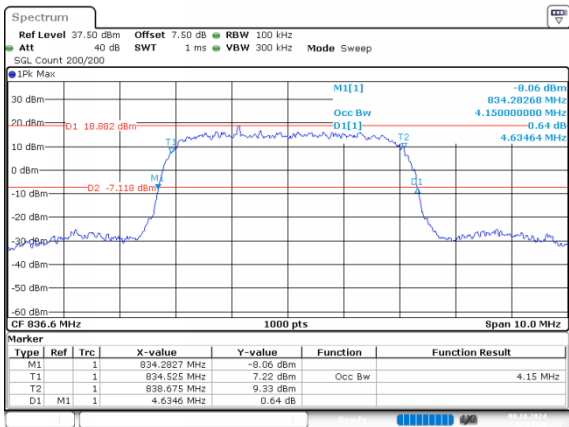
Band 5 , Normal

R99_Low



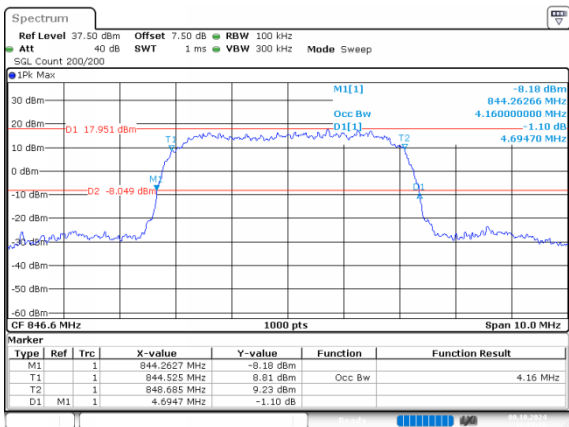
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R99_Middle



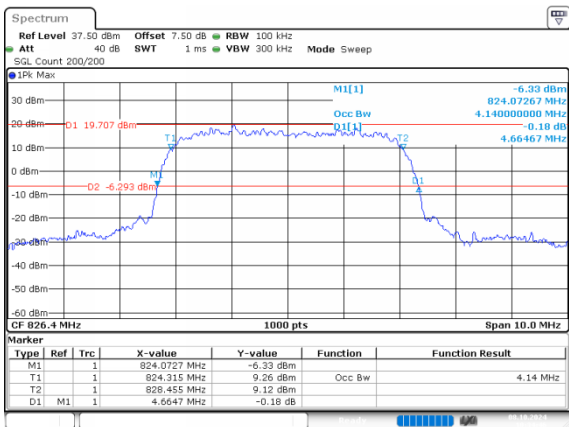
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R99_High



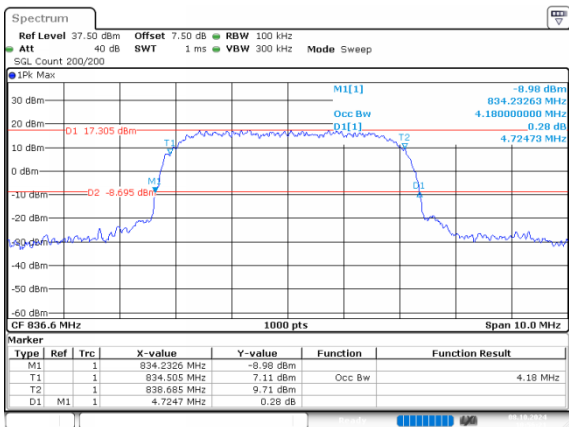
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HSDPA_Low_Subtest1



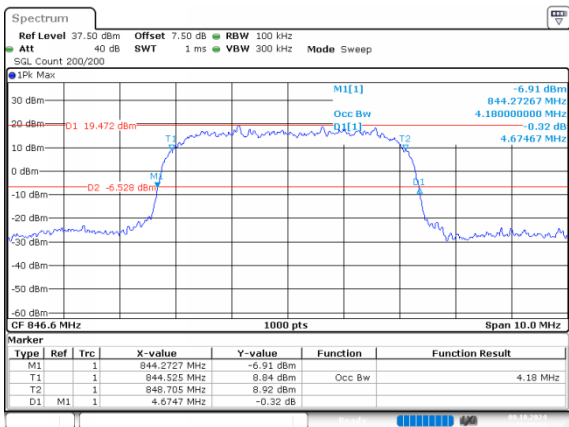
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HSDPA_Middle_Subtest1



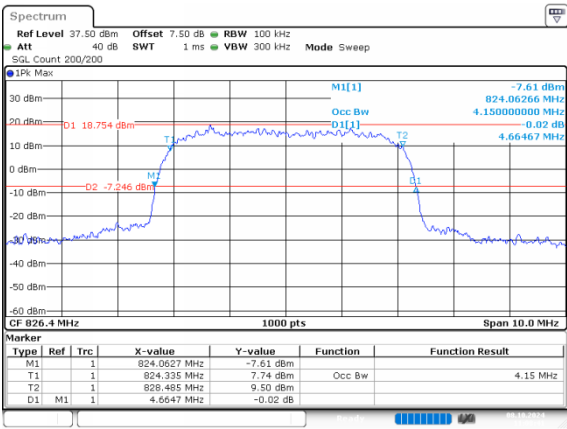
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HSDPA_High_Subtest1



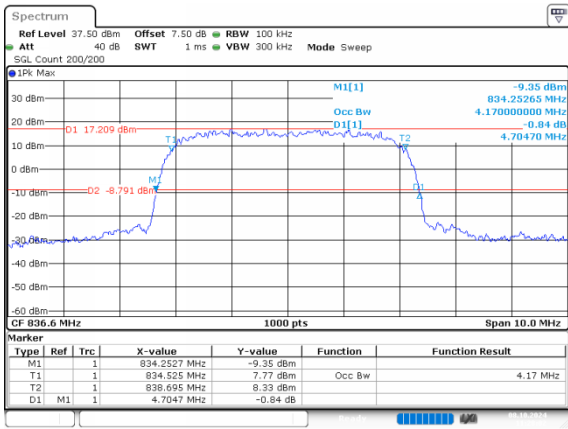
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HSUPA_Low_Subtest1



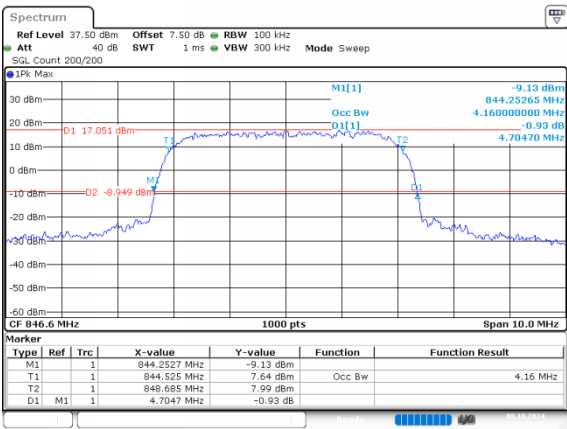
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HSUPA_Middle_Subtest1



ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 11:28:02

HSUPA_High_Subtest1



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Date: 8.OCT.2024 11:39:42

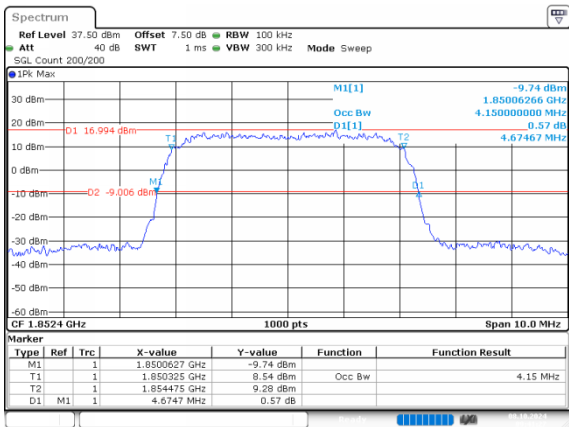
FCC Part 24E

Band 2 , Normal

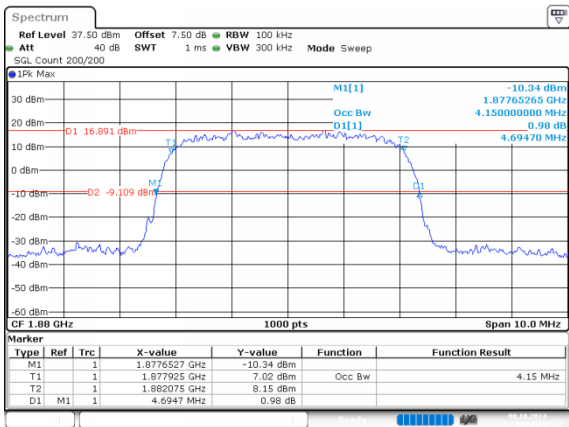
Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.150	4.675
R99_Middle	4.150	4.695
R99_High	4.180	4.675
HSDPA_Low_Subtest1	4.150	4.685
HSDPA_Middle_Subtest1	4.130	4.685
HSDPA_High_Subtest1	4.160	4.685
HSUPA_Low_Subtest1	4.140	4.675
HSUPA_Middle_Subtest1	4.150	4.715
HSUPA_High_Subtest1	4.170	4.675

Band 2 , Normal

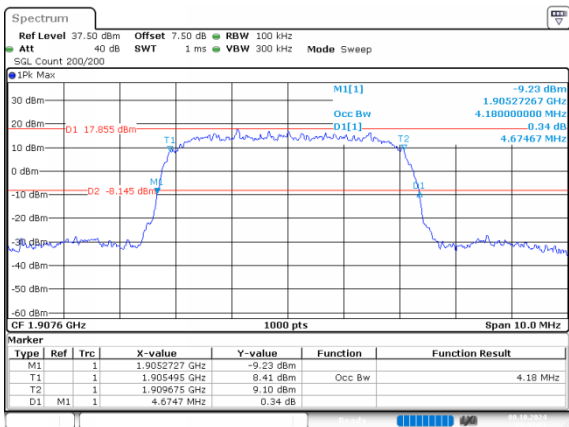
R99_Low



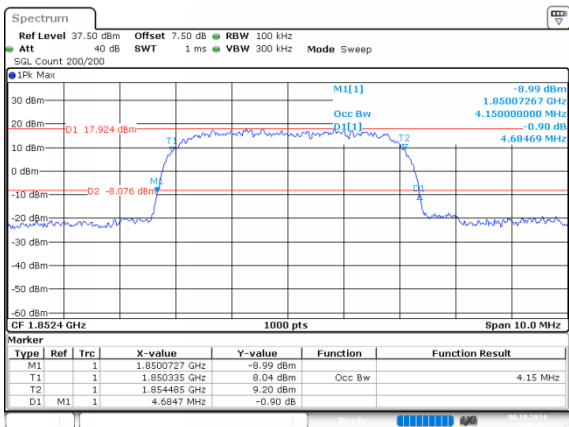
R99_Middle



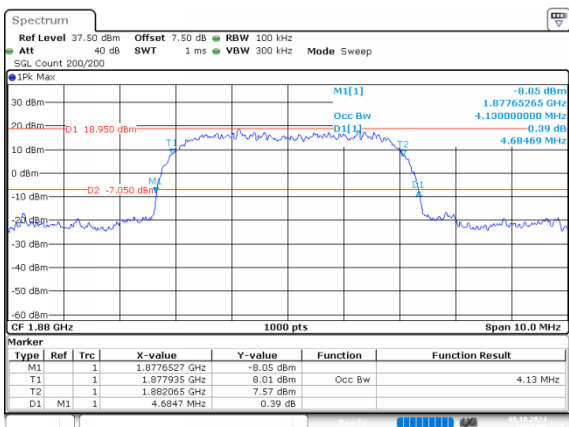
R99_High



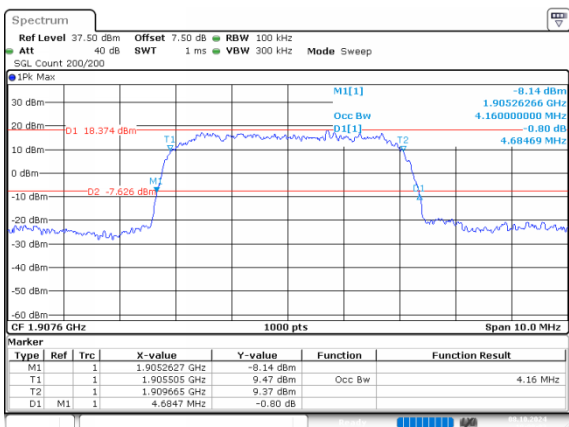
HSDPA_Low_Subtest1



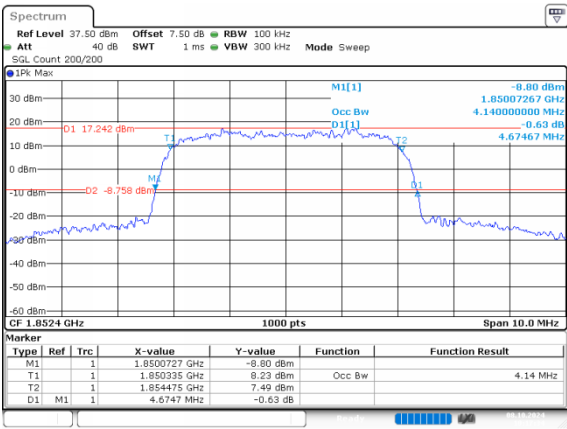
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HSDPA_High_Subtest1

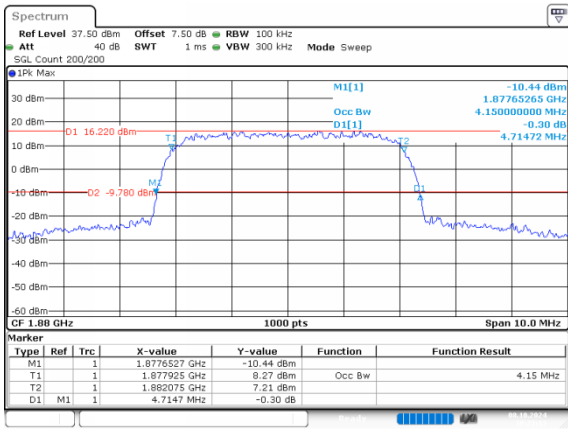


HSUPA_Low_Subtest1



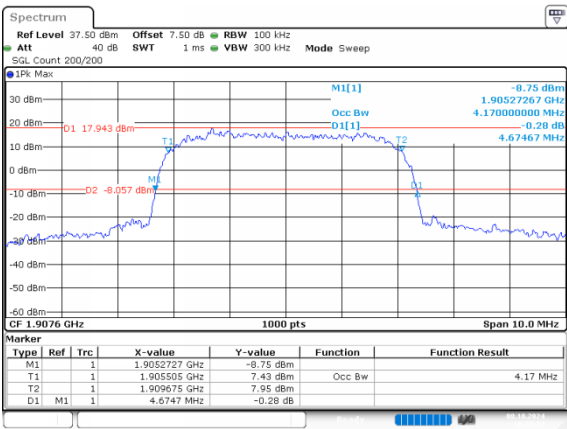
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HSUPA_Middle_Subtest1



ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 10:23:13

HSUPA_High_Subtest1



ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 10:25:34

RF Output Power

FCC Part 22H

Band 5 , Normal

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
R99_Low	22.46	12.41	38.45	Pass
R99_Middle	22.50	12.45	38.45	Pass
R99_High	22.47	12.42	38.45	Pass
HSDPA_Low_Subtest1	23.47	13.42	38.45	Pass
HSDPA_Low_Subtest2	23.06	13.01	38.45	Pass
HSDPA_Low_Subtest3	22.37	12.32	38.45	Pass
HSDPA_Low_Subtest4	21.51	11.46	38.45	Pass
HSDPA_Middle_Subtest1	23.43	13.38	38.45	Pass
HSDPA_Middle_Subtest2	22.78	12.73	38.45	Pass
HSDPA_Middle_Subtest3	22.09	12.04	38.45	Pass
HSDPA_Middle_Subtest4	21.64	11.59	38.45	Pass
HSDPA_High_Subtest1	23.48	13.43	38.45	Pass
HSDPA_High_Subtest2	23.19	13.14	38.45	Pass
HSDPA_High_Subtest3	22.40	12.35	38.45	Pass
HSDPA_High_Subtest4	21.78	11.73	38.45	Pass
HSUPA_Low_Subtest1	23.12	13.07	38.45	Pass
HSUPA_Low_Subtest2	23.09	13.04	38.45	Pass
HSUPA_Low_Subtest3	22.97	12.92	38.45	Pass
HSUPA_Low_Subtest4	22.77	12.72	38.45	Pass
HSUPA_Low_Subtest5	22.57	12.52	38.45	Pass
HSUPA_Middle_Subtest1	23.25	13.20	38.45	Pass
HSUPA_Middle_Subtest2	22.98	12.93	38.45	Pass
HSUPA_Middle_Subtest3	22.75	12.70	38.45	Pass
HSUPA_Middle_Subtest4	22.55	12.50	38.45	Pass
HSUPA_Middle_Subtest5	22.34	12.29	38.45	Pass
HSUPA_High_Subtest1	23.36	13.31	38.45	Pass
HSUPA_High_Subtest2	23.04	12.99	38.45	Pass
HSUPA_High_Subtest3	22.91	12.86	38.45	Pass
HSUPA_High_Subtest4	22.70	12.65	38.45	Pass
HSUPA_High_Subtest5	22.55	12.50	38.45	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	23.28	13.23	38.45	Pass
HSPA+_Middle_Subtest1	23.16	13.11	38.45	Pass
HSPA+_High_Subtest1	23.32	13.27	38.45	Pass
DC-HSDPA_Low_Subtest1	23.45	13.40	38.45	Pass
DC-HSDPA_Low_Subtest2	22.74	12.69	38.45	Pass
DC-HSDPA_Low_Subtest3	22.16	12.11	38.45	Pass
DC-HSDPA_Low_Subtest4	21.75	11.70	38.45	Pass
DC-HSDPA_Middle_Subtest1	23.37	13.32	38.45	Pass
DC-HSDPA_Middle_Subtest2	22.86	12.81	38.45	Pass
DC-HSDPA_Middle_Subtest3	22.24	12.19	38.45	Pass
DC-HSDPA_Middle_Subtest4	21.83	11.78	38.45	Pass
DC-HSDPA_High_Subtest1	23.44	13.39	38.45	Pass
DC-HSDPA_High_Subtest2	23.12	13.07	38.45	Pass
DC-HSDPA_High_Subtest3	22.56	12.51	38.45	Pass
DC-HSDPA_High_Subtest4	21.83	11.78	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 = -7.9dBi;

2.C_L = signal attenuation in the connecting cable between the transmitter and antenna in 0dB

FCC Part 24E

Band 2 , Normal

Mode	Average Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
R99_Low	22.98	18.88	33	Pass
R99_Middle	22.98	18.88	33	Pass
R99_High	22.91	18.81	33	Pass
HSDPA_Low_Subtest1	23.15	19.05	33	Pass
HSDPA_Low_Subtest2	22.68	18.58	33	Pass
HSDPA_Low_Subtest3	22.60	18.50	33	Pass
HSDPA_Low_Subtest4	22.35	18.25	33	Pass
HSDPA_Middle_Subtest1	22.95	18.85	33	Pass
HSDPA_Middle_Subtest2	22.60	18.50	33	Pass
HSDPA_Middle_Subtest3	22.47	18.37	33	Pass
HSDPA_Middle_Subtest4	22.17	18.07	33	Pass
HSDPA_High_Subtest1	22.82	18.72	33	Pass
HSDPA_High_Subtest2	22.40	18.30	33	Pass
HSDPA_High_Subtest3	22.28	18.18	33	Pass
HSDPA_High_Subtest4	22.03	17.93	33	Pass
HSUPA_Low_Subtest1	22.72	18.62	33	Pass
HSUPA_Low_Subtest2	22.66	18.56	33	Pass
HSUPA_Low_Subtest3	22.64	18.54	33	Pass
HSUPA_Low_Subtest4	22.34	18.24	33	Pass
HSUPA_Low_Subtest5	22.23	18.13	33	Pass
HSUPA_Middle_Subtest1	22.63	18.53	33	Pass
HSUPA_Middle_Subtest2	22.62	18.52	33	Pass
HSUPA_Middle_Subtest3	22.49	18.39	33	Pass
HSUPA_Middle_Subtest4	22.25	18.15	33	Pass
HSUPA_Middle_Subtest5	22.13	18.03	33	Pass
HSUPA_High_Subtest1	22.46	18.36	33	Pass
HSUPA_High_Subtest2	22.26	18.16	33	Pass
HSUPA_High_Subtest3	22.15	18.05	33	Pass
HSUPA_High_Subtest4	21.96	17.86	33	Pass
HSUPA_High_Subtest5	21.81	17.71	33	Pass

Mode	Average Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	22.55	18.45	33	Pass
HSPA+_Middle_Subtest1	22.49	18.39	33	Pass
HSPA+_High_Subtest1	22.63	18.53	33	Pass
DC-HSDPA_Low_Subtest1	23.06	18.96	33	Pass
DC-HSDPA_Low_Subtest2	22.73	18.63	33	Pass
DC-HSDPA_Low_Subtest3	22.54	18.44	33	Pass
DC-HSDPA_Low_Subtest4	22.33	18.23	33	Pass
DC-HSDPA_Middle_Subtest1	22.97	18.87	33	Pass
DC-HSDPA_Middle_Subtest2	22.64	18.54	33	Pass
DC-HSDPA_Middle_Subtest3	22.41	18.31	33	Pass
DC-HSDPA_Middle_Subtest4	22.15	18.05	33	Pass
DC-HSDPA_High_Subtest1	22.76	18.66	33	Pass
DC-HSDPA_High_Subtest2	22.48	18.38	33	Pass
DC-HSDPA_High_Subtest3	22.30	18.20	33	Pass
DC-HSDPA_High_Subtest4	22.09	17.99	33	Pass

Note:

EIRP = Average Conducted Power(dBm) - L_C(dB) + G_T(dBi)

1.Ant Gain = -4.1dBi;

2.C_L = signal attenuation in the connecting cable between the transmitter and antenna in 0dB

Peak-to-average Ratio(PAR)

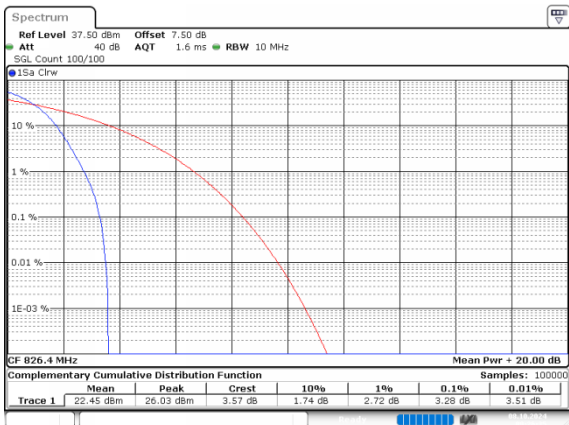
FCC Part 22H

Band 5 , Normal

Mode	Result (dB)	Limit (dB)
R99_Low	3.28	13
R99_Middle	3.28	13
R99_High	3.28	13
HSDPA_Low_Subtest1	3.65	13
HSDPA_Middle_Subtest1	3.59	13
HSDPA_High_Subtest1	3.07	13
HSUPA_Low_Subtest1	4.93	13
HSUPA_Middle_Subtest1	5.01	13
HSUPA_High_Subtest1	4.90	13

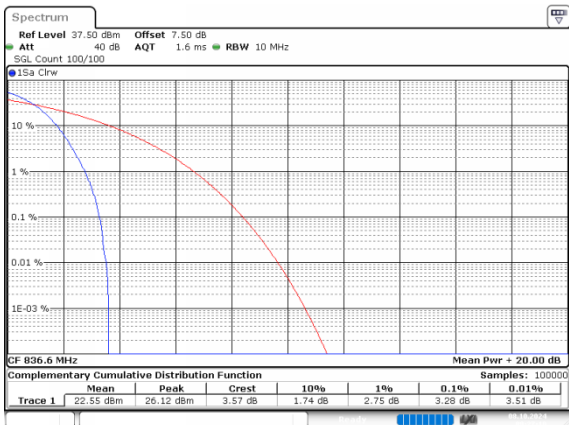
Band 5 , Normal

R99_Low



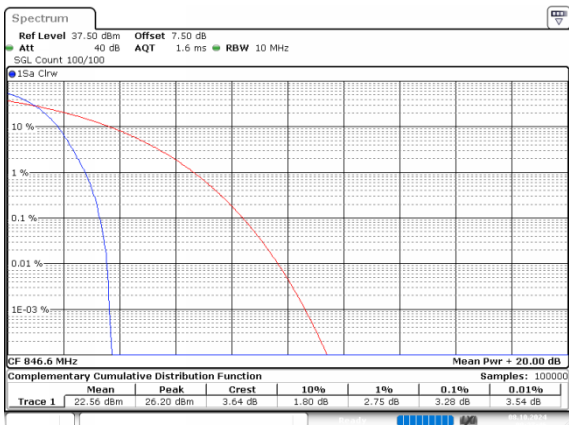
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Date: 8.OCT.2024 09:26:34

R99_Middle



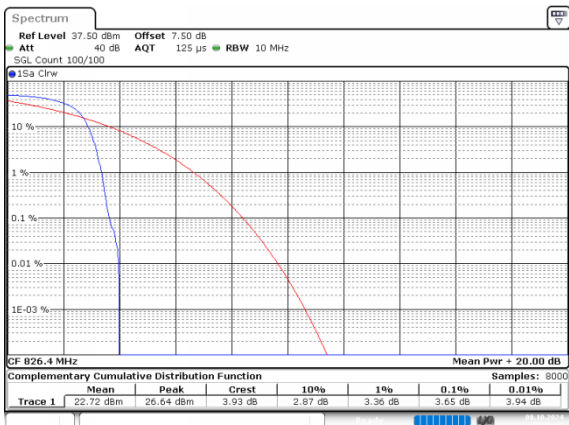
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R99_High



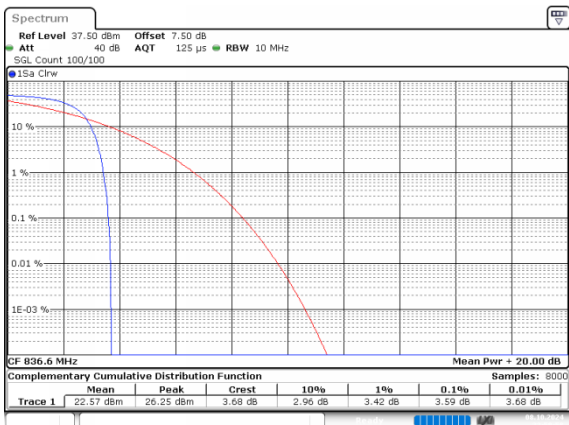
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HSDPA_Low_Subtest1



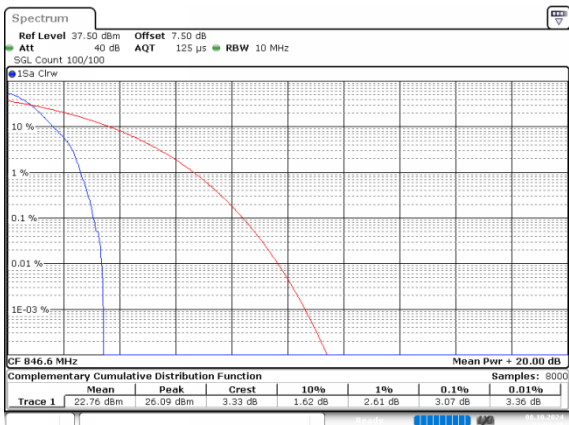
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HSDPA_Middle_Subtest1



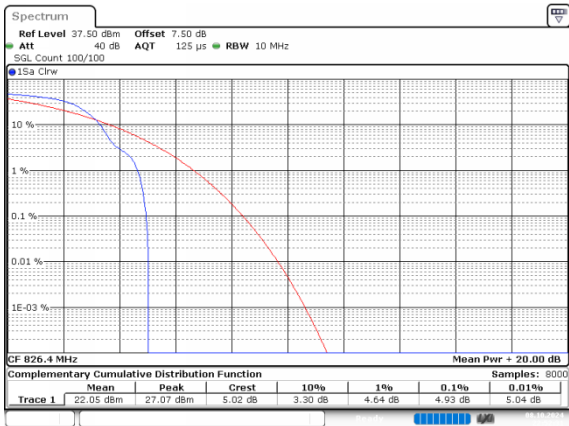
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HSDPA_High_Subtest1



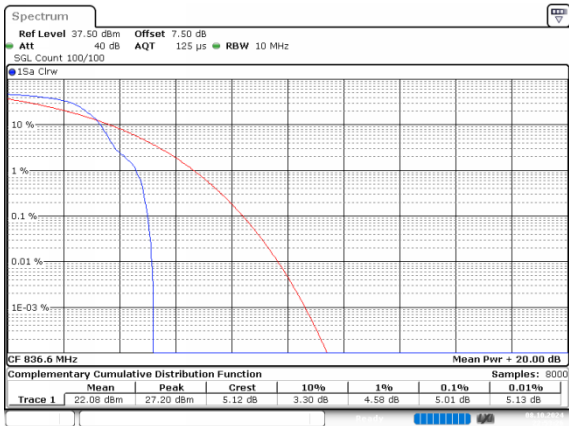
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HSUPA_Low_Subtest1



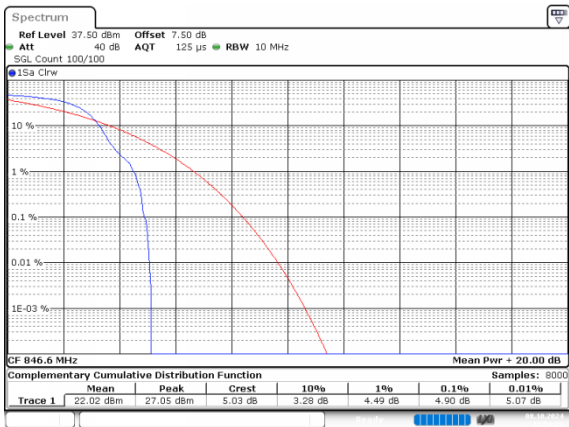
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HSUPA_Middle_Subtest1



ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 22:53:27

HSUPA_High_Subtest1



ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 22:54:22

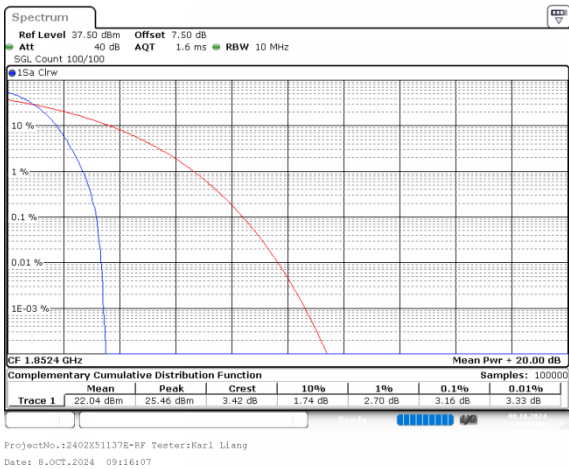
FCC Part 24E

Band 2 , Normal

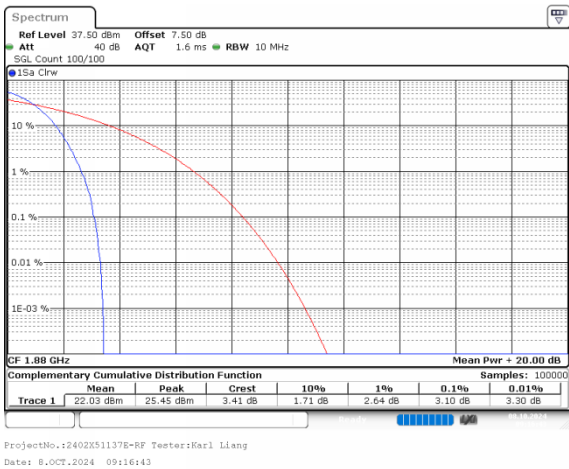
Mode	Result (dB)	Limit (dB)
R99_Low	3.16	13
R99_Middle	3.10	13
R99_High	3.19	13
HSDPA_Low_Subtest1	3.94	13
HSDPA_Middle_Subtest1	3.62	13
HSDPA_High_Subtest1	2.99	13
HSUPA_Low_Subtest1	4.75	13
HSUPA_Middle_Subtest1	4.87	13
HSUPA_High_Subtest1	4.87	13

Band 2 , Normal

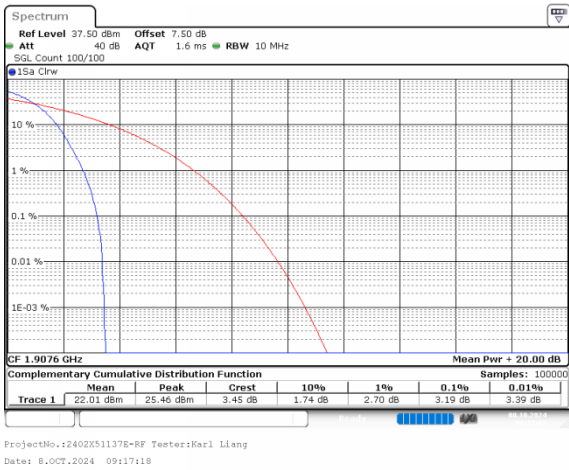
R99_Low



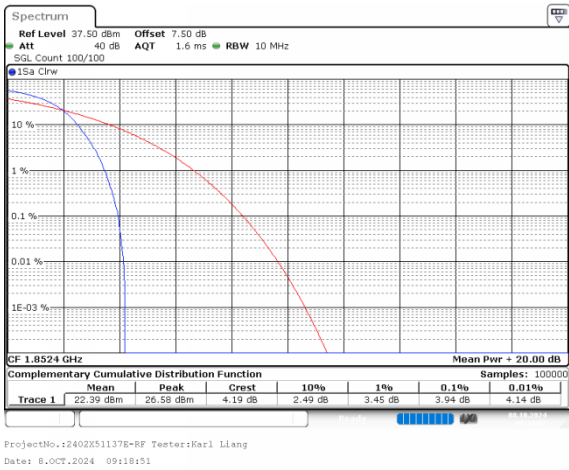
R99_Middle



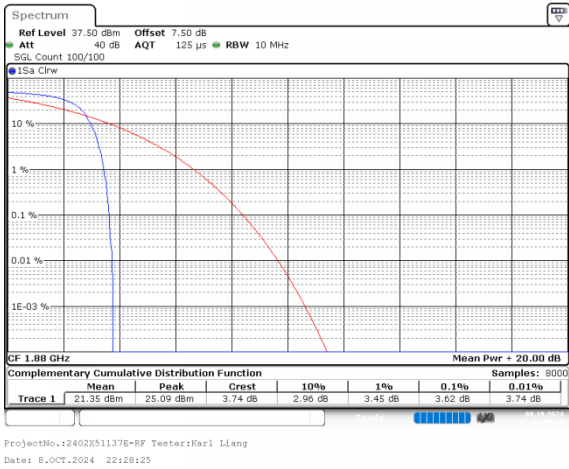
R99_High



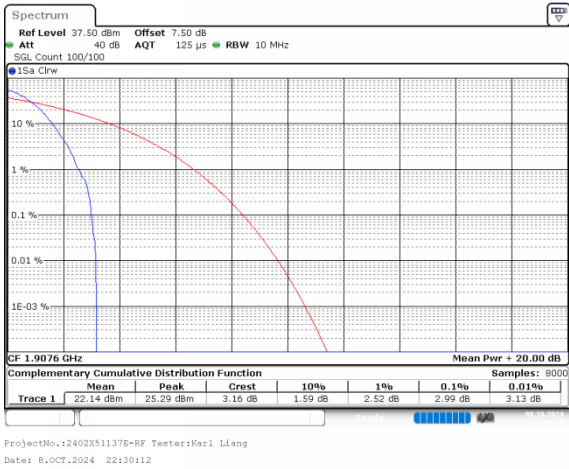
HSDPA_Low_Subtest1



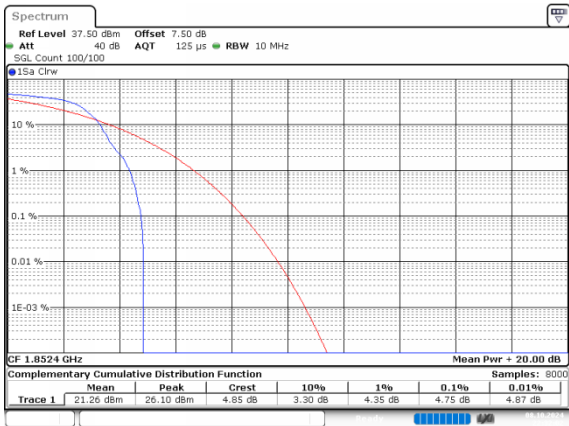
HSDPA_Middle_Subtest1



HSDPA_High_Subtest1

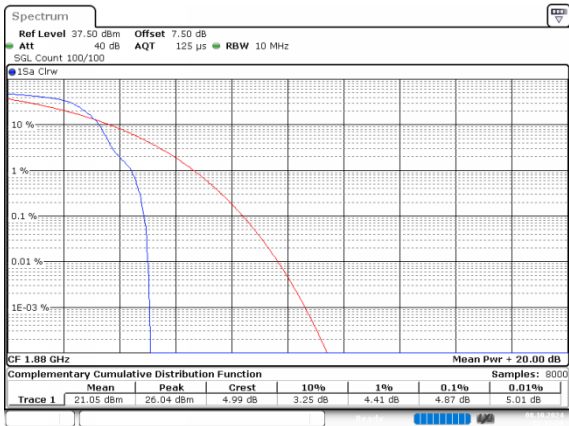


HSUPA_Low_Subtest1



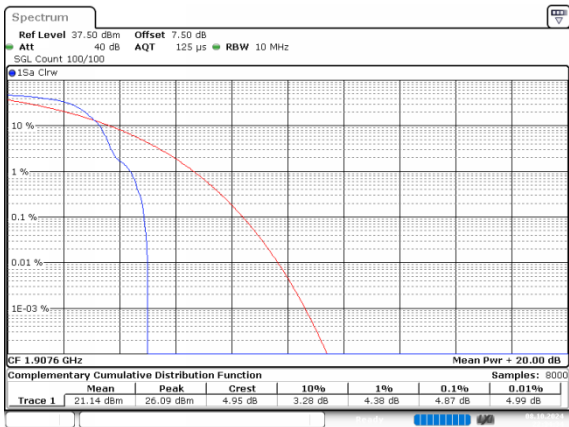
ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 22:32:02

HSUPA_Middle_Subtest1



ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 22:33:31

HSUPA_High_Subtest1



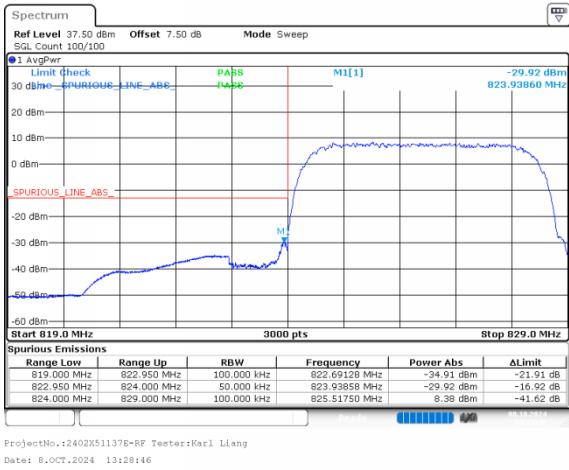
ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 22:34:34

Out of band emission,Band Edge

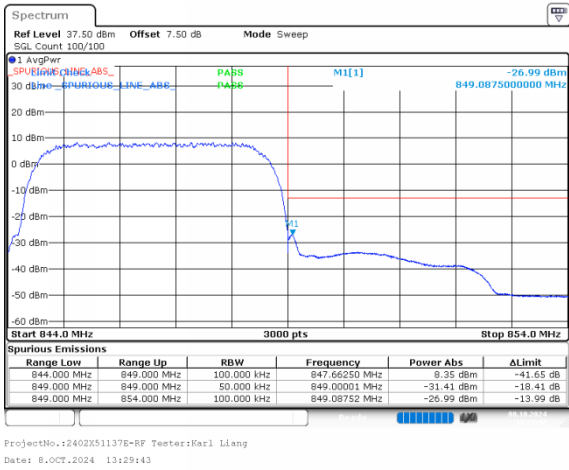
FCC Part 22H

Band 5 , Normal

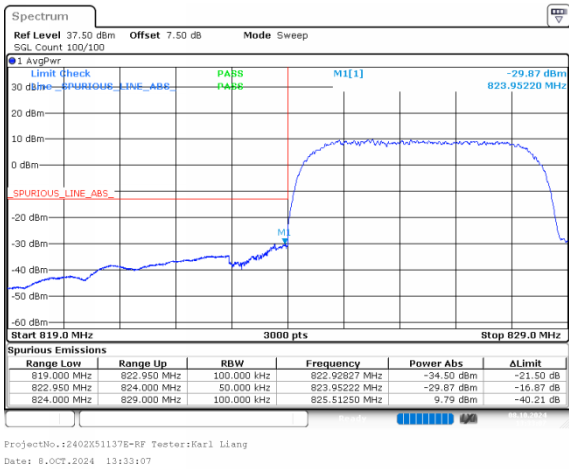
R99_Low



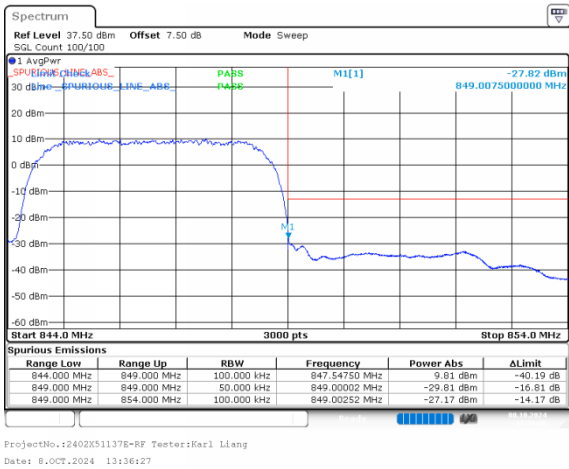
R99_High



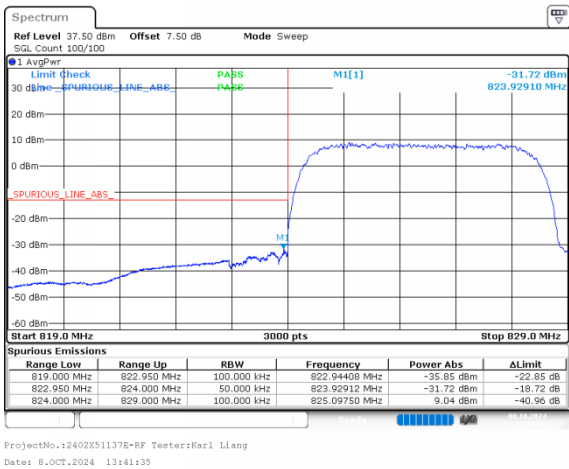
HSDPA_Low_Subtest1



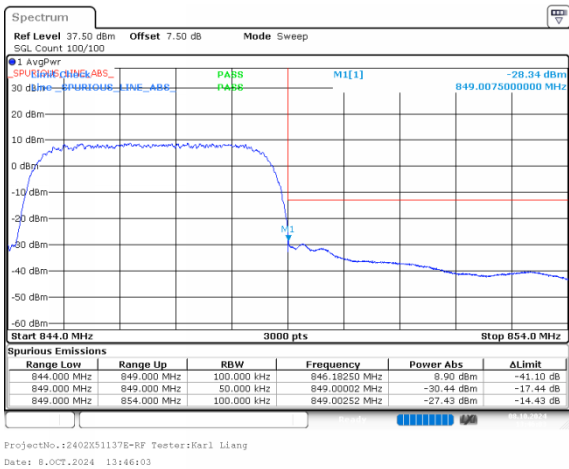
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



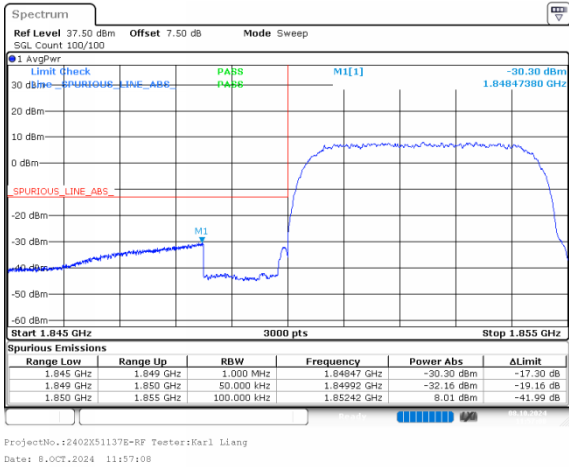
HSUPA_High_Subtest1



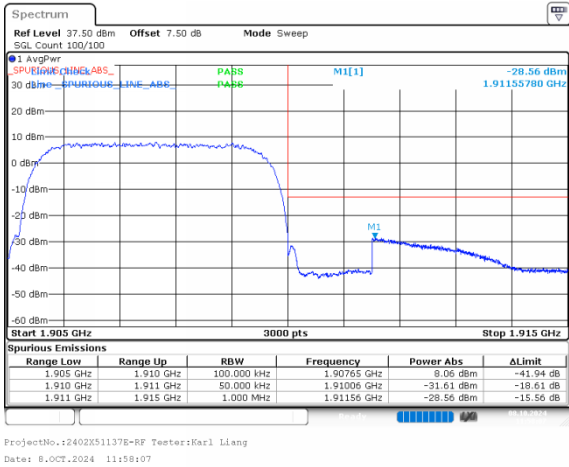
FCC Part 24E

Band 2 , Normal

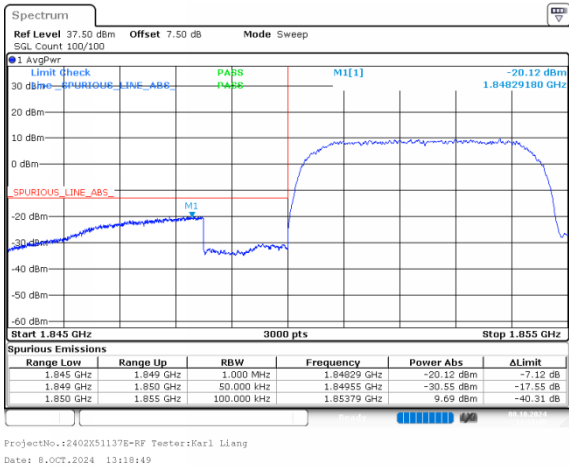
R99_Low



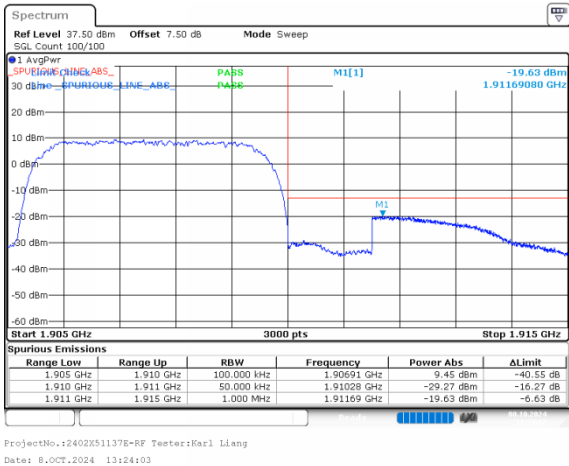
R99_High



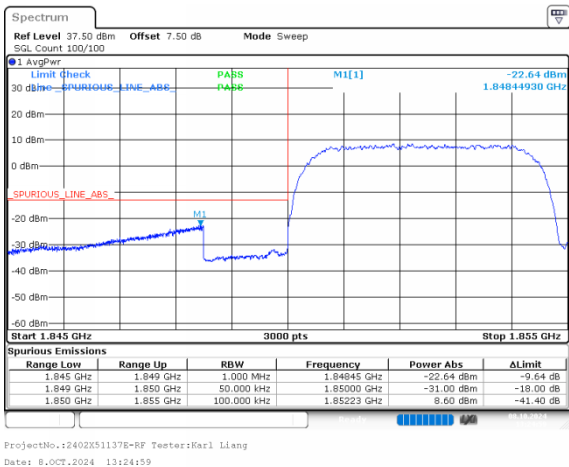
HSDPA_Low_Subtest1



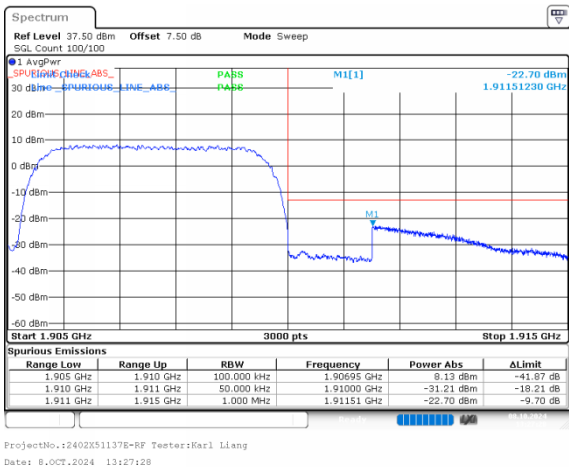
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



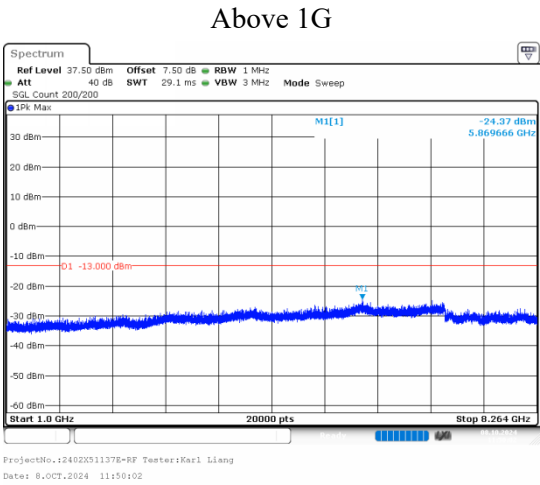
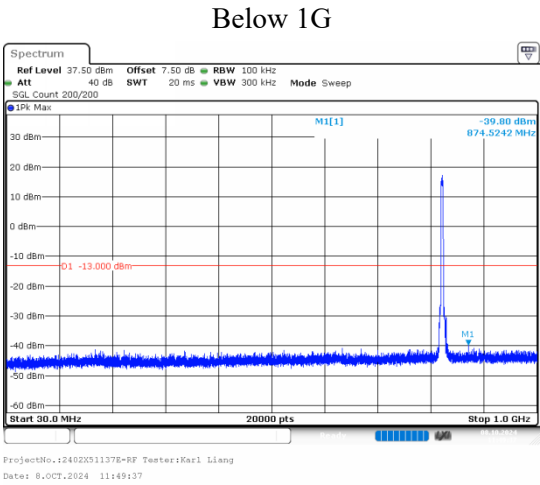
HSUPA_High_Subtest1



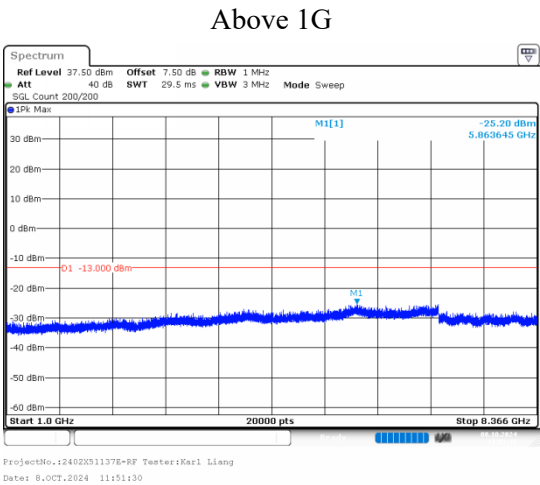
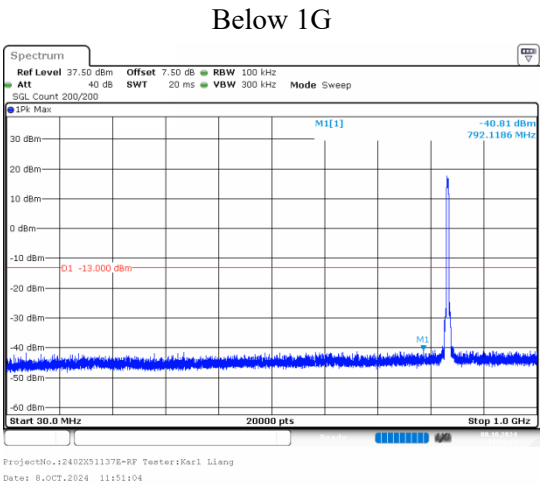
Spurious Emissions at Antenna Terminal

FCC Part 22H
Band 5 , Normal

R99_Low

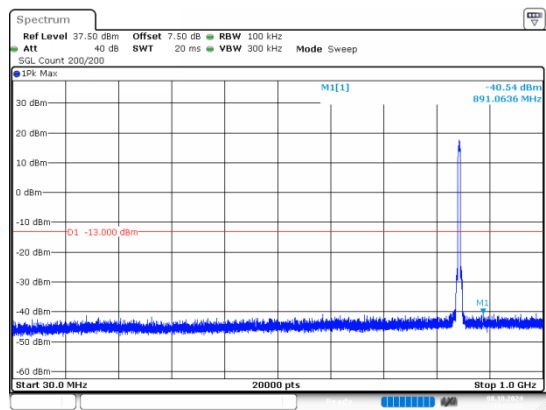


R99_Middle



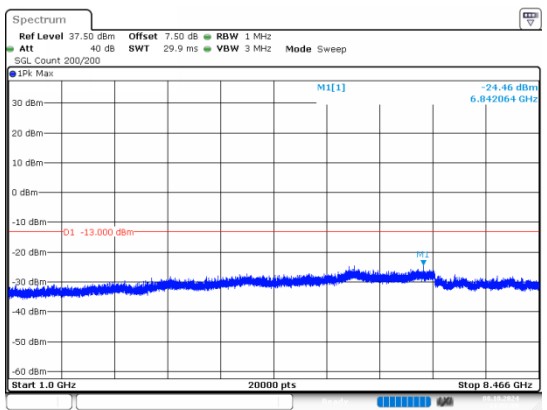
R99_High

Below 1G



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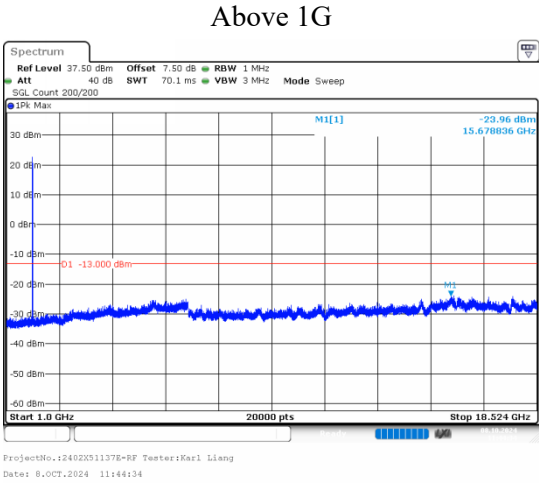
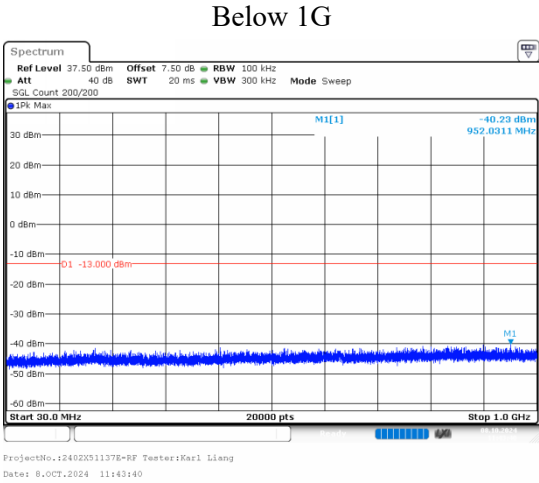
Above 1G



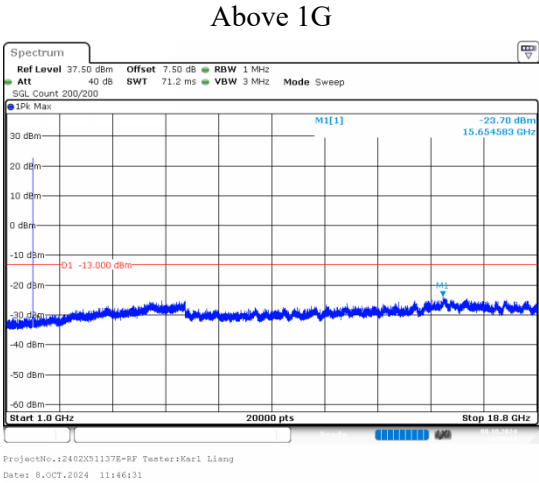
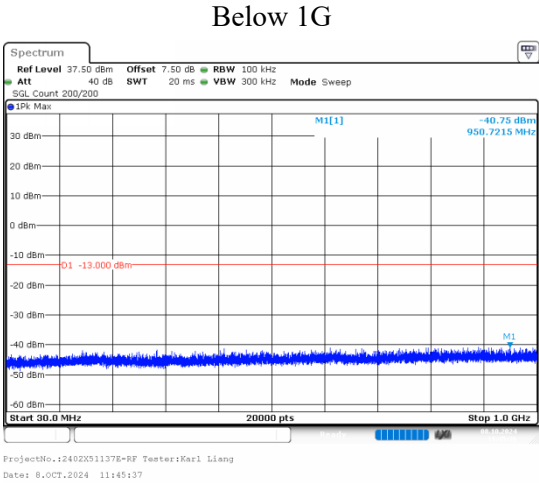
ProjectNo.:2402X51137E-RF Tester:Karl Liang
Date: 8.OCT.2024 11:52:59

FCC Part 24E
Band 2 , Normal

R99_Low



R99_Middle



R99_High

