

10.1.8. LTE Band 26 (FCC PART 22)

15MHz QPSK										15MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 26 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 26 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
831.50	13.26	V	0.9	0.6	12.97	38.5	-25.5			831.50	11.80	V	0.9	0.6	11.31	38.5	-27.2			
831.50	19.46	H	0.9	1.1	19.63	38.5	-19.9			831.50	17.77	H	0.9	1.1	17.94	38.5	-20.6			
Mid Ch										Mid Ch										
836.50	13.68	V	0.9	0.6	13.35	38.5	-25.2			836.50	11.91	V	0.9	0.6	11.68	38.5	-26.9			
836.50	20.40	H	0.9	1.1	20.56	38.5	-17.9			836.50	18.94	H	0.9	1.1	19.10	38.5	-19.4			
High Ch										High Ch										
841.50	13.55	V	1.0	0.6	13.16	38.5	-25.3			841.50	11.72	V	1.0	0.6	11.33	38.5	-27.2			
841.50	20.79	H	1.0	1.1	20.93	38.5	-17.6			841.50	18.97	H	1.0	1.1	19.11	38.5	-19.4			
10MHz QPSK										10MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 26 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 26 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
829.00	13.54	V	0.9	0.7	13.28	50.0	-36.7			829.00	11.89	V	0.9	0.7	11.63	50.0	-38.4			
829.00	19.46	H	0.9	1.1	19.62	50.0	-30.4			829.00	17.82	H	0.9	1.1	17.99	50.0	-32.0			
Mid Ch										Mid Ch										
836.50	13.41	V	0.9	0.6	13.08	38.5	-25.4			836.50	11.71	V	0.9	0.6	11.38	38.5	-27.1			
836.50	20.52	H	0.9	1.1	20.68	38.5	-17.8			836.50	19.05	H	0.9	1.1	19.21	38.5	-19.3			
High Ch										High Ch										
844.00	14.07	V	1.0	0.5	13.65	38.5	-24.9			844.00	12.26	V	1.0	0.5	11.84	38.5	-26.7			
844.00	20.78	H	1.0	1.1	20.91	38.5	-17.6			844.00	19.04	H	1.0	1.1	19.17	38.5	-19.3			
5MHz QPSK										5MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 26 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 26 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
826.50	13.49	V	0.9	0.7	13.26	50.0	-36.8			826.50	11.81	V	0.9	0.7	11.57	50.0	-38.4			
826.50	19.29	H	0.9	1.1	19.46	50.0	-30.5			826.50	17.72	H	0.9	1.1	17.89	50.0	-32.1			
Mid Ch										Mid Ch										
836.50	13.84	V	0.9	0.6	13.51	38.5	-25.0			836.50	12.16	V	0.9	0.6	11.83	38.5	-26.7			
836.50	20.49	H	0.9	1.1	20.65	38.5	-17.8			836.50	18.98	H	0.9	1.1	19.14	38.5	-19.4			
High Ch										High Ch										
846.50	14.02	V	1.0	0.5	13.67	38.5	-24.9			846.50	12.16	V	1.0	0.5	11.71	38.5	-26.8			
846.50	20.62	H	1.0	1.1	20.74	38.5	-17.8			846.50	18.84	H	1.0	1.1	18.96	38.5	-19.5			

3MHz QPSK										3MHz 16QAM									
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 26 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 26 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch										Low Ch									
825.50	13.21	V	0.9	0.7	12.98	50.0	-37.0			825.50	11.77	V	0.9	0.7	11.54	50.0	-38.5		
825.50	19.39	H	0.9	1.1	19.56	50.0	-30.4			825.50	17.87	H	0.9	1.1	18.04	50.0	-32.0		
Mid Ch										Mid Ch									
836.50	13.85	V	0.9	0.6	13.52	38.5	-35.0			836.50	11.96	V	0.9	0.6	11.63	38.5	-26.9		
836.50	20.20	H	0.9	1.1	20.36	38.5	-18.1			836.50	18.66	H	0.9	1.1	18.82	38.5	-19.7		
High Ch										High Ch									
847.50	13.77	V	1.0	0.5	13.31	38.5	-25.2			847.50	12.17	V	1.0	0.5	11.71	38.5	-26.8		
847.50	20.71	H	1.0	1.1	20.83	38.5	-17.7			847.50	19.10	H	1.0	1.1	19.22	38.5	-19.3		
1.4MHz QPSK										1.4MHz 16QAM									
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 26 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/6/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 26 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch										Low Ch									
824.70	13.26	V	0.9	0.7	13.03	50.0	-37.0			824.70	11.82	V	0.9	0.7	11.59	50.0	-38.4		
824.70	19.28	H	0.9	1.1	19.45	50.0	-30.5			824.70	17.83	H	0.9	1.1	18.00	50.0	-32.0		
Mid Ch										Mid Ch									
836.50	13.88	V	0.9	0.6	13.35	38.5	-25.2			836.50	12.35	V	0.9	0.6	12.02	38.5	-26.5		
836.50	20.16	H	0.9	1.1	20.32	38.5	-18.2			836.50	18.70	H	0.9	1.1	18.86	38.5	-19.6		
High Ch										High Ch									
848.30	13.61	V	1.0	0.5	13.14	38.5	-25.4			848.30	12.24	V	1.0	0.5	11.77	38.5	-26.7		
848.30	20.69	H	1.0	1.1	20.81	38.5	-17.7			848.30	19.03	H	1.0	1.1	19.15	38.5	-19.4		

10.1.9. LTE Band 41

20MHz QPSK										20MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 41(FCC) Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 41(FCC) Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
2506.00	10.08	V	1.2	9.5	18.40	33.0	-14.6			2506.00	9.45	V	1.2	9.5	17.77	33.0	-15.2			
2506.00	7.50	H	1.2	9.4	15.76	33.0	-17.2			2506.00	4.62	H	1.2	9.4	12.88	33.0	-20.1			
Mid Ch										Mid Ch										
2593.00	9.23	V	1.2	9.7	17.73	33.0	-15.3			2593.00	8.35	V	1.2	9.7	16.85	33.0	-16.2			
2593.00	5.15	H	1.2	9.6	13.55	33.0	-19.5			2593.00	3.76	H	1.2	9.6	12.16	33.0	-20.8			
High Ch										High Ch										
2680.00	8.97	V	1.2	9.6	17.39	33.0	-15.5			2680.00	8.45	V	1.2	9.6	16.87	33.0	-16.1			
2680.00	4.98	H	1.2	9.5	13.26	33.0	-19.7			2680.00	2.72	H	1.2	9.5	11.00	33.0	-22.0			
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 41(FCC) Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 41(FCC) Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
2503.50	10.00	V	1.1	9.5	18.31	33.0	-14.7			2503.50	9.16	V	1.1	9.5	17.46	33.0	-15.5			
2503.50	5.67	H	1.1	9.4	13.92	33.0	-19.1			2503.50	4.74	H	1.1	9.4	12.98	33.0	-20.0			
Mid Ch										Mid Ch										
2593.00	8.90	V	1.2	9.7	17.40	33.0	-15.6			2593.00	8.19	V	1.2	9.7	16.69	33.0	-16.3			
2593.00	4.81	H	1.2	9.6	13.21	33.0	-19.8			2593.00	3.52	H	1.2	9.6	11.92	33.0	-21.1			
High Ch										High Ch										
2682.50	9.30	V	1.2	9.6	17.71	33.0	-15.3			2682.50	8.24	V	1.2	9.6	16.65	33.0	-16.4			
2682.50	4.93	H	1.2	9.5	13.20	33.0	-19.8			2682.50	3.71	H	1.2	9.5	11.98	33.0	-21.0			
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 41(FCC) Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 41(FCC) Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
2501.00	10.95	V	1.1	9.5	19.25	33.0	-13.7			2501.00	10.01	V	1.1	9.5	18.31	33.0	-14.7			
2501.00	6.42	H	1.1	9.4	14.66	33.0	-18.3			2501.00	5.07	H	1.1	9.4	13.31	33.0	-19.7			
Mid Ch										Mid Ch										
2593.00	9.32	V	1.2	9.7	17.82	33.0	-15.2			2593.00	8.10	V	1.2	9.7	16.60	33.0	-16.4			
2593.00	5.24	H	1.2	9.6	13.64	33.0	-19.4			2593.00	3.81	H	1.2	9.6	12.21	33.0	-20.8			
High Ch										High Ch										
2685.00	9.99	V	1.2	9.6	18.40	33.0	-14.6			2685.00	8.79	V	1.2	9.6	17.20	33.0	-15.8			
2685.00	5.11	H	1.2	9.5	13.38	33.0	-19.6			2685.00	3.95	H	1.2	9.5	12.22	33.0	-20.8			
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 41(FCC) Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/9/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 41(FCC) Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
2498.50	10.95	V	1.1	9.4	19.24	33.0	-13.8			2498.50	10.02	V	1.1	9.4	18.31	33.0	-14.7			
2498.50	5.21	H	1.1	9.4	13.44	33.0	-19.6			2498.50	4.33	H	1.1	9.4	12.56	33.0	-20.4			
Mid Ch										Mid Ch										
2593.00	9.39	V	1.2	9.7	17.89	33.0	-15.1			2593.00	8.11	V	1.2	9.7	16.61	33.0	-16.4			
2593.00	5.67	H	1.2	9.6	14.07	33.0	-18.9			2593.00	4.58	H	1.2	9.6	12.98	33.0	-20.0			
High Ch										High Ch										
2687.50	10.25	V	1.2	9.6	18.85	33.0	-14.4			2687.50	8.98	V	1.2	9.6	17.38	33.0	-15.6			
2687.50	4.93	H	1.2	9.5	13.19	33.0	-19.8			2687.50	3.84	H	1.2	9.5	12.10	33.0	-20.9			

10.1.10. LTE Band 66

20MHz QPSK										20MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1720.00	4.74	V	1.1	8.7	12.37	30.0	-17.6			1720.00	4.30	V	1.1	8.7	11.93	30.0	-18.1			
1720.00	12.80	H	1.1	8.9	20.59	30.0	-9.4			1720.00	11.16	H	1.1	8.9	18.95	30.0	-11.1			
Mid Ch										Mid Ch										
1745.00	6.57	V	1.1	8.8	14.33	30.0	-15.7			1745.00	6.02	V	1.1	8.8	13.78	30.0	-16.2			
1745.00	13.09	H	1.1	8.9	20.97	30.0	-9.0			1745.00	11.90	H	1.1	8.9	19.48	30.0	-10.5			
High Ch										High Ch										
1770.00	5.30	V	1.0	8.9	13.16	30.0	-16.8			1770.00	4.54	V	1.0	8.9	12.40	30.0	-17.6			
1770.00	13.57	H	1.0	9.0	21.54	30.0	-8.5			1770.00	12.11	H	1.0	9.0	20.08	30.0	-9.9			

15MHz QPSK										15MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1717.50	5.00	V	1.1	8.7	12.62	30.0	-17.4			1717.50	4.06	V	1.1	8.7	11.68	30.0	-18.3			
1717.50	12.61	H	1.1	8.9	20.40	30.0	-9.6			1717.50	11.22	H	1.1	8.9	19.01	30.0	-11.0			
Mid Ch										Mid Ch										
1745.00	6.74	V	1.1	8.8	14.50	30.0	-15.5			1745.00	6.07	V	1.1	8.8	13.83	30.0	-16.2			
1745.00	13.11	H	1.1	8.9	20.99	30.0	-9.0			1745.00	11.58	H	1.1	8.9	19.46	30.0	-10.5			
High Ch										High Ch										
1772.50	5.35	V	1.0	8.9	13.21	30.0	-16.9			1772.50	4.41	V	1.0	8.9	12.27	30.0	-17.7			
1772.50	13.37	H	1.0	9.0	21.35	30.0	-8.7			1772.50	11.97	H	1.0	9.0	19.95	30.0	-10.1			

10MHz QPSK										10MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1715.00	4.84	V	1.1	8.7	12.45	30.0	-17.8			1715.00	3.96	V	1.1	8.7	11.57	30.0	-18.4			
1715.00	12.56	H	1.1	8.9	20.34	30.0	-9.7			1715.00	11.15	H	1.1	8.9	18.93	30.0	-11.1			
Mid Ch										Mid Ch										
1745.00	6.62	V	1.1	8.8	14.38	30.0	-15.6			1745.00	6.02	V	1.1	8.8	13.78	30.0	-16.2			
1745.00	12.73	H	1.1	8.9	20.61	30.0	-9.4			1745.00	11.21	H	1.1	8.9	19.09	30.0	-10.9			
High Ch										High Ch										
1775.00	5.67	V	1.0	8.9	13.55	30.0	-16.5			1775.00	4.75	V	1.0	8.9	12.63	30.0	-17.4			
1775.00	13.09	H	1.0	9.0	21.08	30.0	-8.9			1775.00	11.73	H	1.0	9.0	19.72	30.0	-10.3			

5MHz QPSK										5MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1712.50	4.78	V	1.1	8.7	12.38	30.0	-17.6			1712.50	3.97	V	1.1	8.7	11.57	30.0	-18.4			
1712.50	12.28	H	1.1	8.9	20.05	30.0	-9.9			1712.50	10.82	H	1.1	8.9	18.59	30.0	-11.4			
Mid Ch										Mid Ch										
1745.00	6.60	V	1.1	8.8	14.36	30.0	-15.6			1745.00	6.07	V	1.1	8.8	13.83	30.0	-16.2			
1745.00	12.79	H	1.1	8.9	20.67	30.0	-9.3			1745.00	11.38	H	1.1	8.9	19.26	30.0	-10.7			
High Ch										High Ch										
1777.50	5.55	V	1.0	8.9	13.43	30.0	-16.6			1777.50	4.77	V	1.0	8.9	12.65	30.0	-17.4			
1777.50	13.26	H	1.0	9.0	21.26	30.0	-8.7			1777.50	11.91	H	1.0	9.0	19.91	30.0	-10.2			

3MHz QPSK										3MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1711.50	4.92	V	1.1	8.7	12.51	30.0	-17.5			1711.50	4.02	V	1.1	8.7	11.61	30.0	-18.4			
1711.50	12.65	H	1.1	8.9	20.42	30.0	-9.6			1711.50	11.12	H	1.1	8.9	18.89	30.0	-11.1			
Mid Ch										Mid Ch										
1745.00	6.44	V	1.1	8.8	14.20	30.0	-15.8			1745.00	5.81	V	1.1	8.8	13.57	30.0	-16.4			
1745.00	12.68	H	1.1	8.9	20.56	30.0	-9.4			1745.00	11.34	H	1.1	8.9	19.22	30.0	-10.8			
High Ch										High Ch										
1778.50	5.22	V	1.0	8.9	13.10	30.0	-16.9			1778.50	4.51	V	1.0	8.9	12.39	30.0	-17.6			
1778.50	13.10	H	1.0	9.0	21.10	30.0	-8.9			1778.50	11.87	H	1.0	9.0	19.87	30.0	-10.3			
1.4MHz QPSK										1.4Hz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 66 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/11/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 66 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1710.70	4.76	V	1.1	8.7	12.35	30.0	-17.6			1710.70	4.17	V	1.1	8.7	11.76	30.0	-18.2			
1710.70	12.57	H	1.1	8.9	20.34	30.0	-9.7			1710.70	11.09	H	1.1	8.9	18.86	30.0	-11.1			
Mid Ch										Mid Ch										
1745.00	6.61	V	1.1	8.8	14.37	30.0	-15.6			1745.00	6.09	V	1.1	8.8	13.85	30.0	-16.2			
1745.00	12.75	H	1.1	8.9	20.63	30.0	-9.4			1745.00	11.33	H	1.1	8.9	19.21	30.0	-10.8			
High Ch										High Ch										
1779.30	5.45	V	1.0	8.9	13.34	30.0	-16.7			1779.30	4.56	V	1.0	8.9	12.45	30.0	-17.6			
1779.30	13.06	H	1.0	9.0	21.06	30.0	-8.9			1779.30	11.66	H	1.0	9.0	19.66	30.0	-10.3			

10.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, and §27.53

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (g), (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC: §27.53 (Band 13)

(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40 dBm/MHz).

FCC: §27.53 (m) (Band 41)

At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST PROCEDURE

KDB 971168 D01 v03r01/D02 v02/r01

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz.

RESULTS

10.2.1. GSM 850

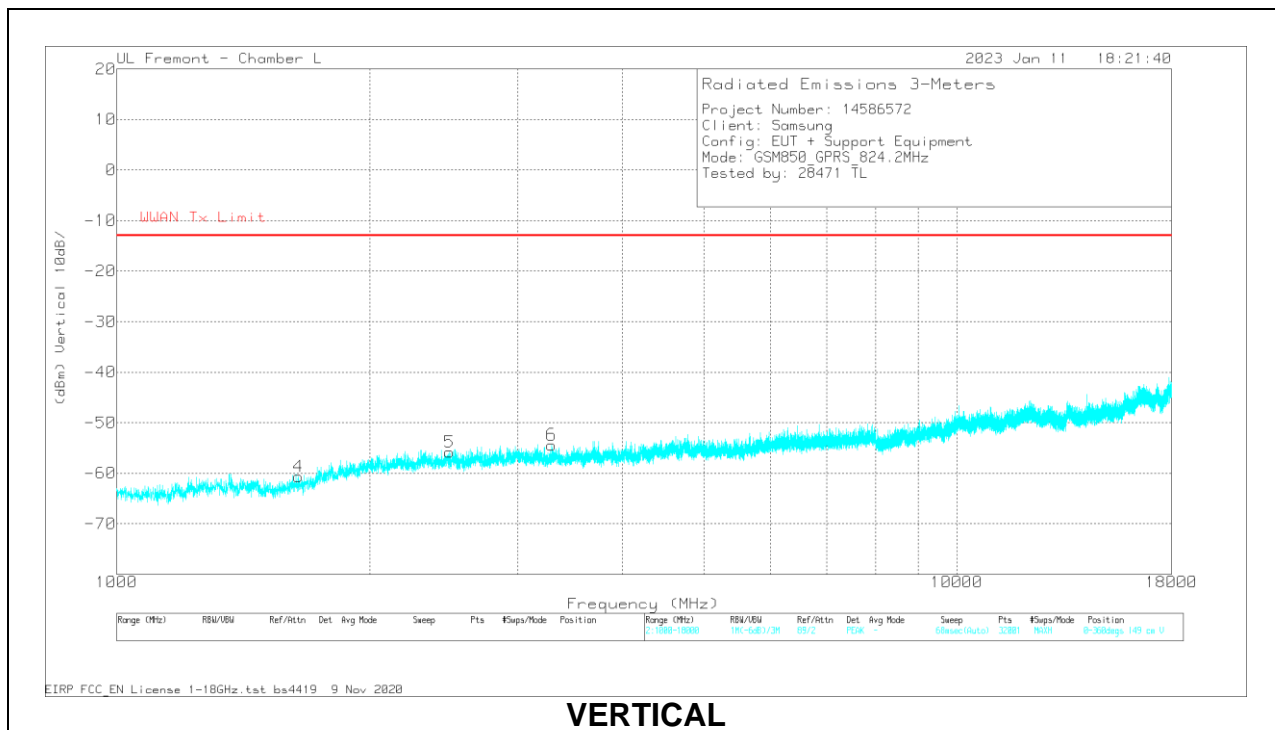
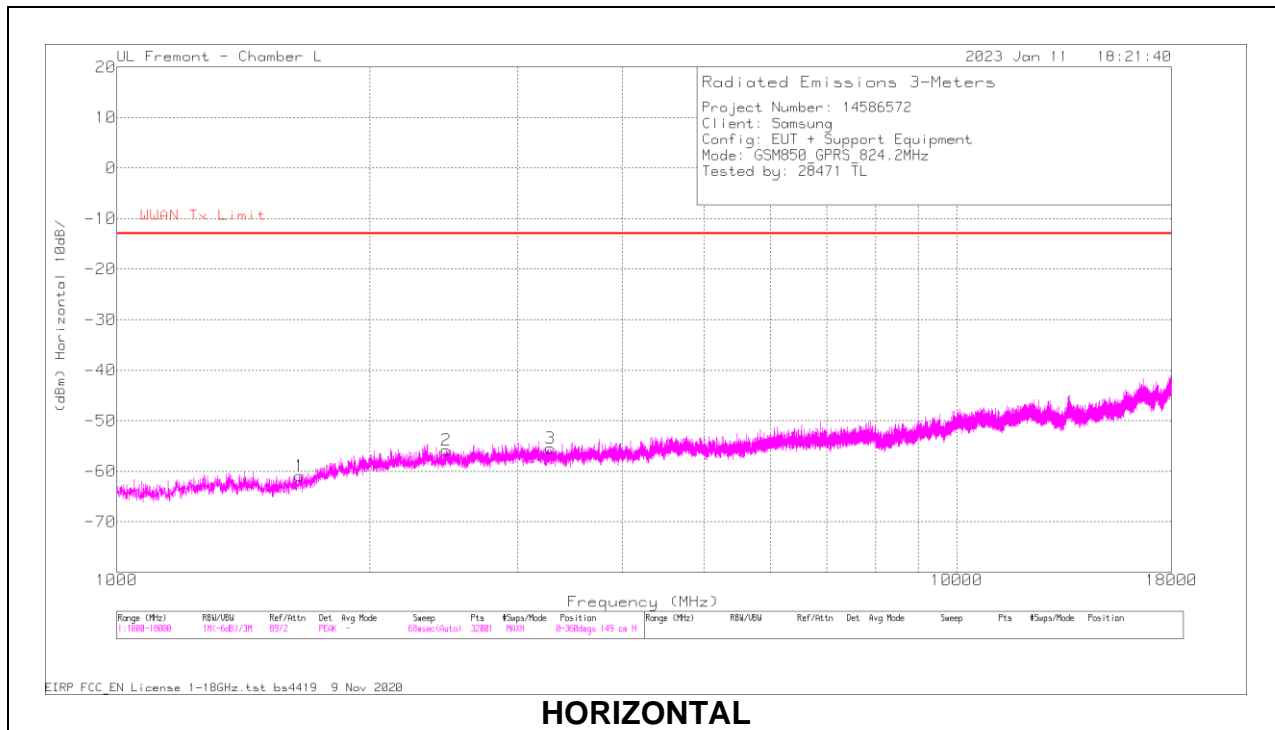
LIMITS

FCC: §22.917(a)

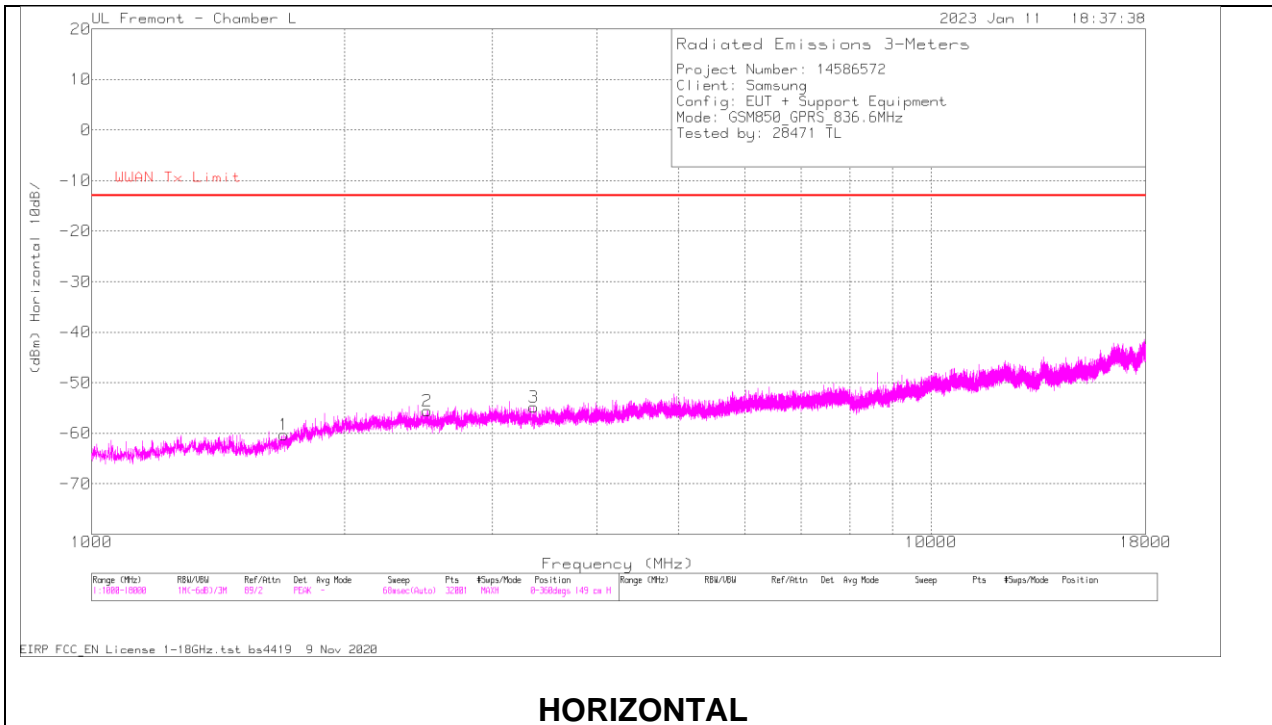
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

GPRS MODE

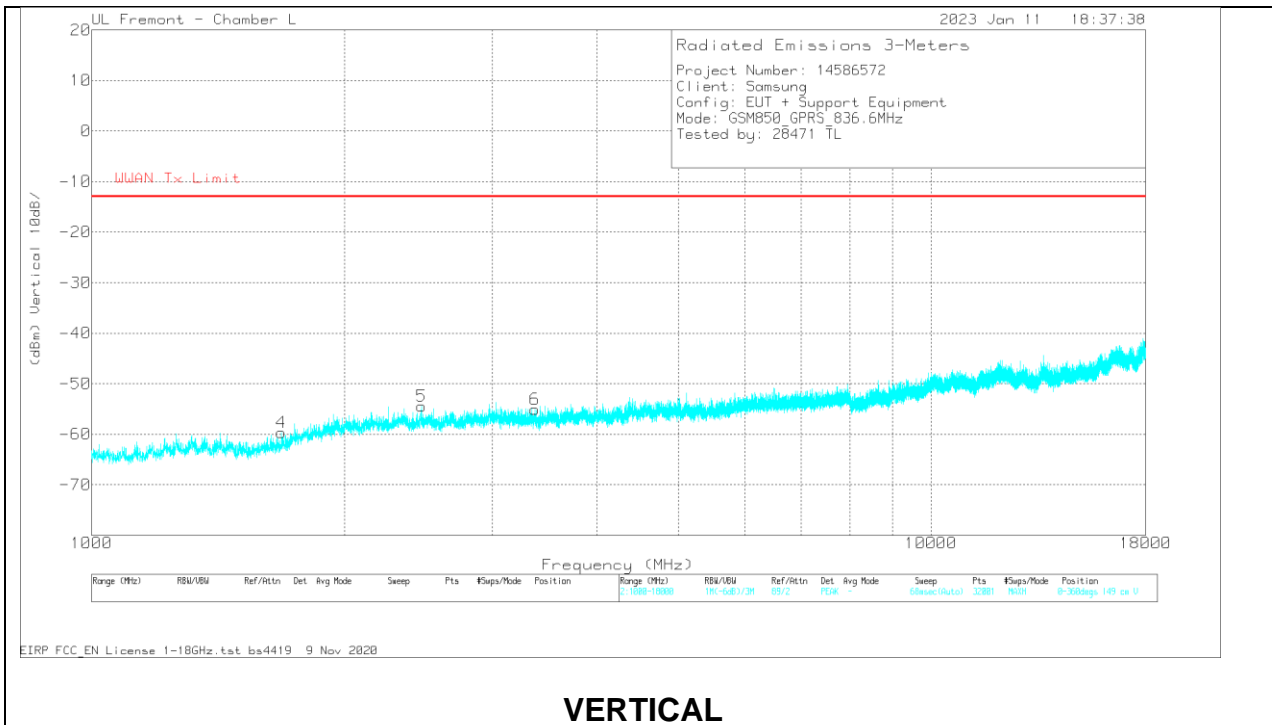
LOW CHANNEL RESULTS



MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

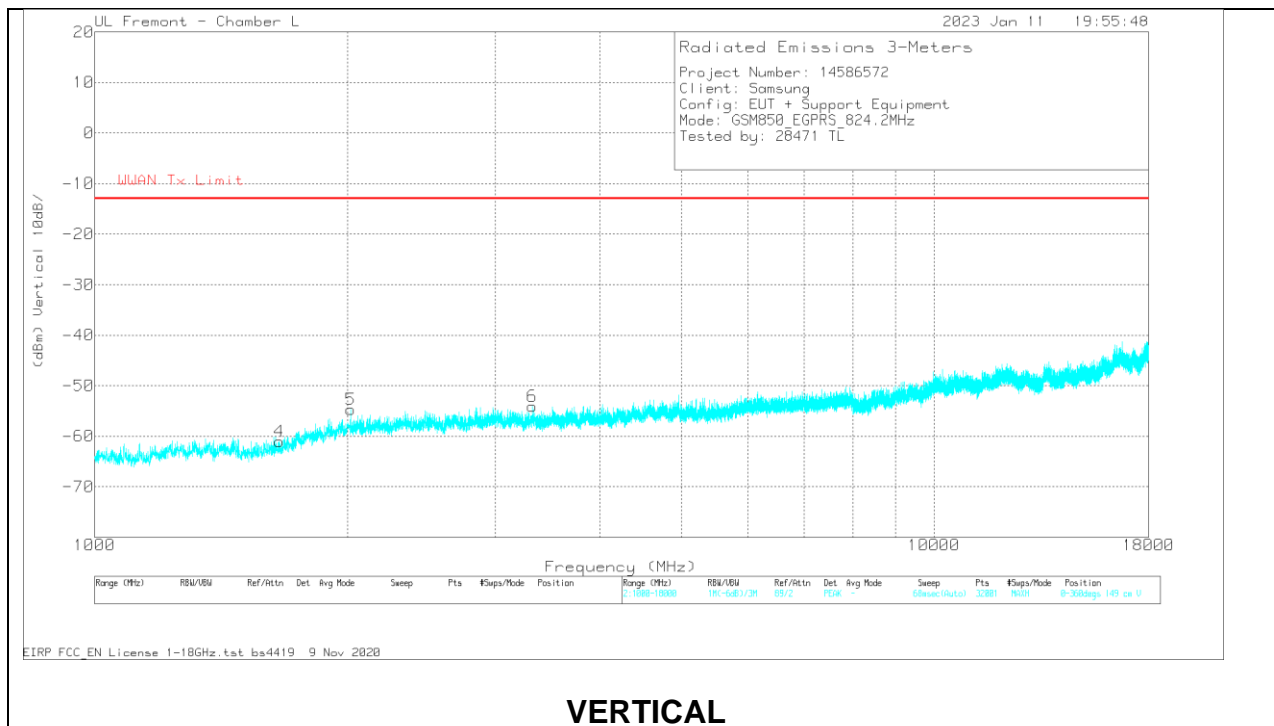
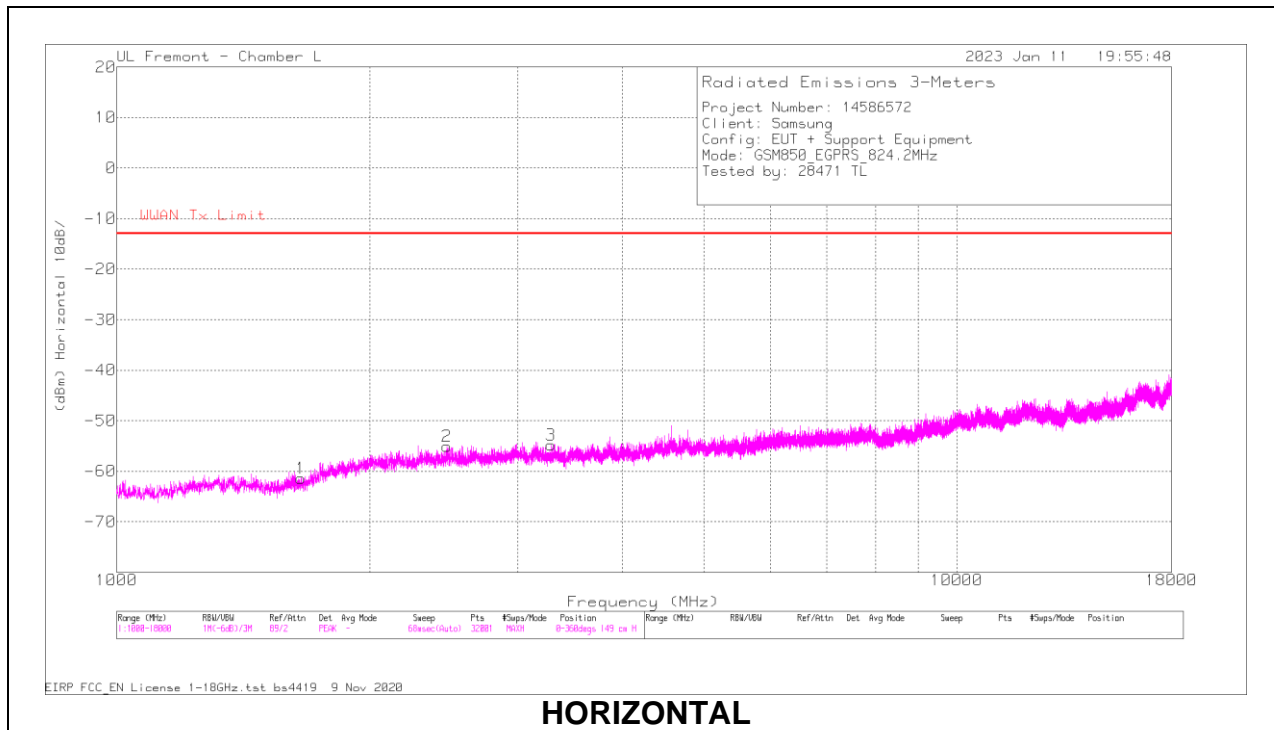
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB) 3mH	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	WWAN Harmonics Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
LOW CH 824.2 MHz												
1	1650.781	37.73	Pk	28.7	-32.1	-95.2	-60.87	-13	-47.87	0-360	149	H
2	2468.375	36.46	Pk	32.6	-29.7	-95.2	-55.84	-13	-42.84	0-360	149	H
3	3279.063	35.23	Pk	33.1	-28.6	-95.2	-55.47	-13	-42.47	0-360	149	H
4	1643.875	38.08	Pk	28.6	-32.1	-95.2	-60.62	-13	-47.62	0-360	149	V
5	2487.5	36.52	Pk	32.5	-29.7	-95.2	-55.88	-13	-42.88	0-360	149	V
6	3292.344	36.4	Pk	33.1	-28.7	-95.2	-54.4	-13	-41.4	0-360	149	V
MID CH 836.6 MHz												
1	1693.281	37.46	Pk	29.3	-31.8	-95.2	-60.24	-13	-47.24	0-360	149	H
2	2508.75	36.87	Pk	32.5	-29.7	-95.2	-55.53	-13	-42.53	0-360	149	H
3	3359.281	36.26	Pk	33.1	-29	-95.2	-54.84	-13	-41.84	0-360	149	H
4	1682.656	38.33	Pk	29.1	-31.9	-95.2	-59.67	-13	-46.67	0-360	149	V
5	2469.969	37.84	Pk	32.6	-29.7	-95.2	-54.46	-13	-41.46	0-360	149	V
6	3373.625	36.06	Pk	33.1	-29	-95.2	-55.04	-13	-42.04	0-360	149	V
HIGH CH 848.8 MHz												
1	1753.313	40.95	Pk	30.1	-31.5	-95.2	-55.65	-13	-42.65	0-360	149	H
2	2567.188	37.35	Pk	32.5	-29.8	-95.2	-55.15	-13	-42.15	0-360	149	H
3	3361.406	36.06	Pk	33.1	-29	-95.2	-55.04	-13	-42.04	0-360	149	H
4	1692.75	37.88	Pk	29.3	-31.8	-95.2	-59.82	-13	-46.82	0-360	149	V
5	2537.438	36.6	Pk	32.5	-29.7	-95.2	-55.8	-13	-42.8	0-360	149	V
6	3386.906	35.85	Pk	33.1	-28.9	-95.2	-55.15	-13	-42.15	0-360	149	V

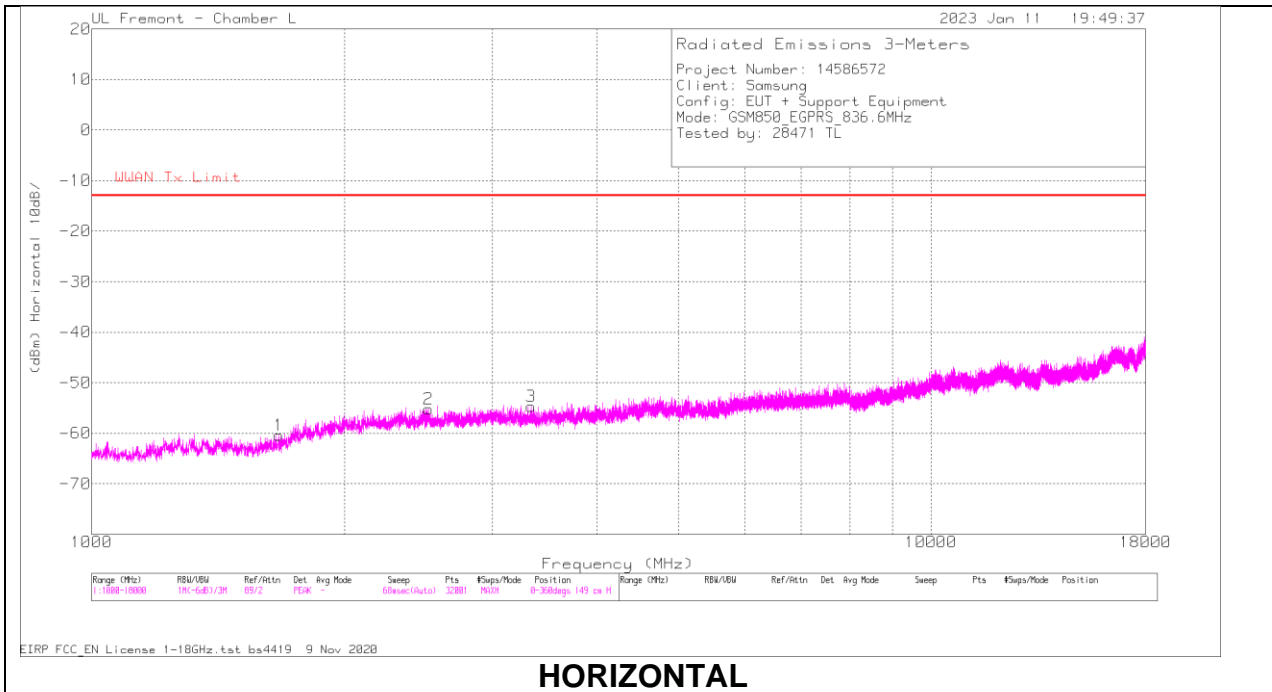
Pk - Peak detector

EGPRS MODE

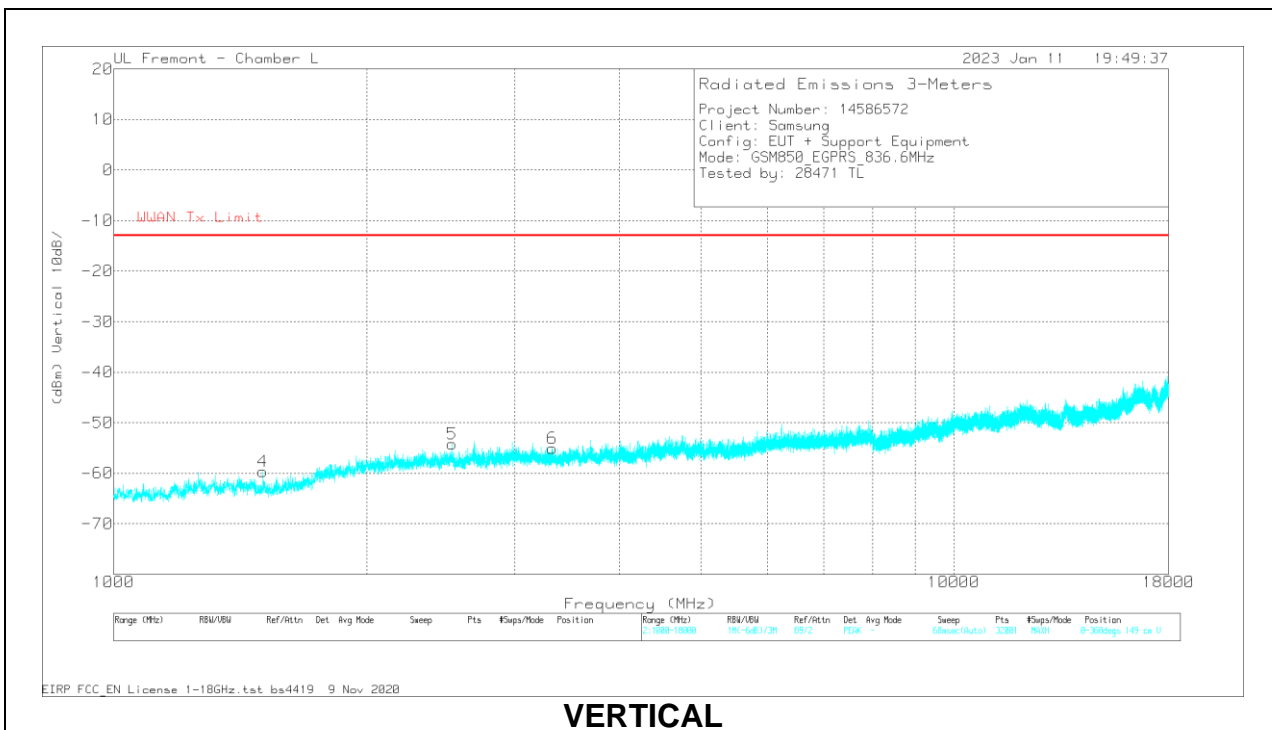
LOW CHANNEL RESULTS



MID CHANNEL RESULTS

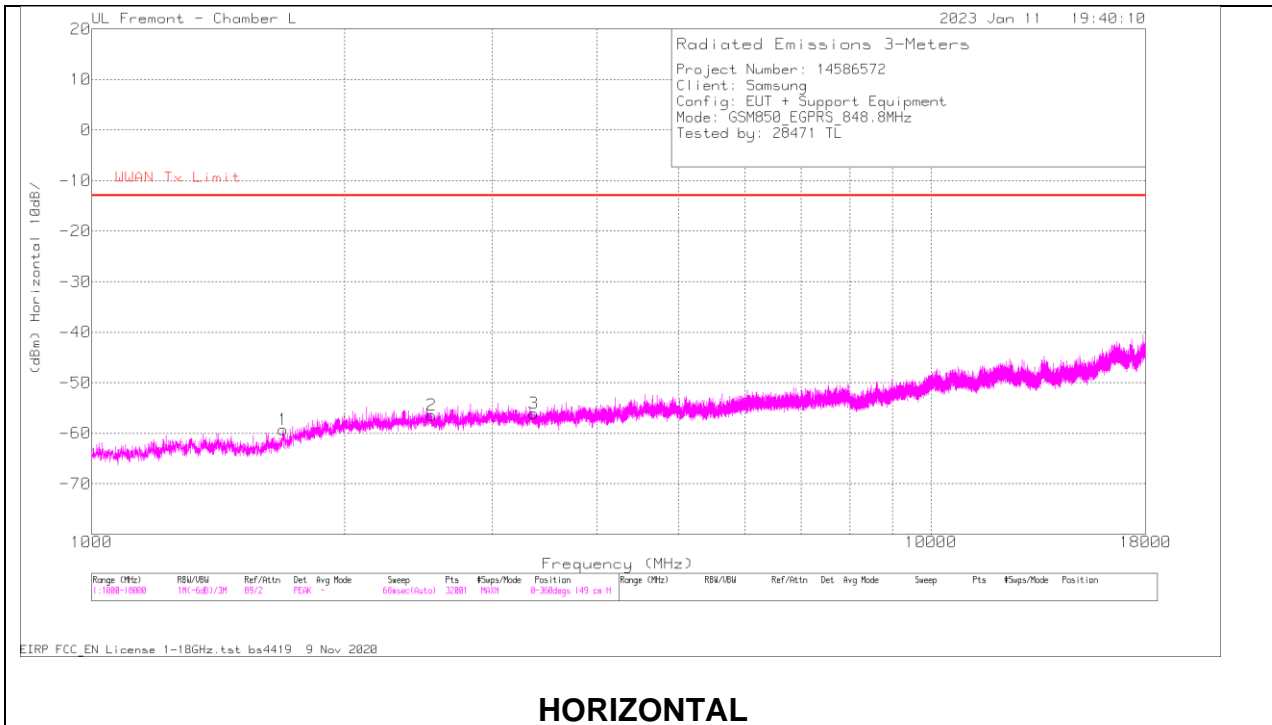


HORIZONTAL

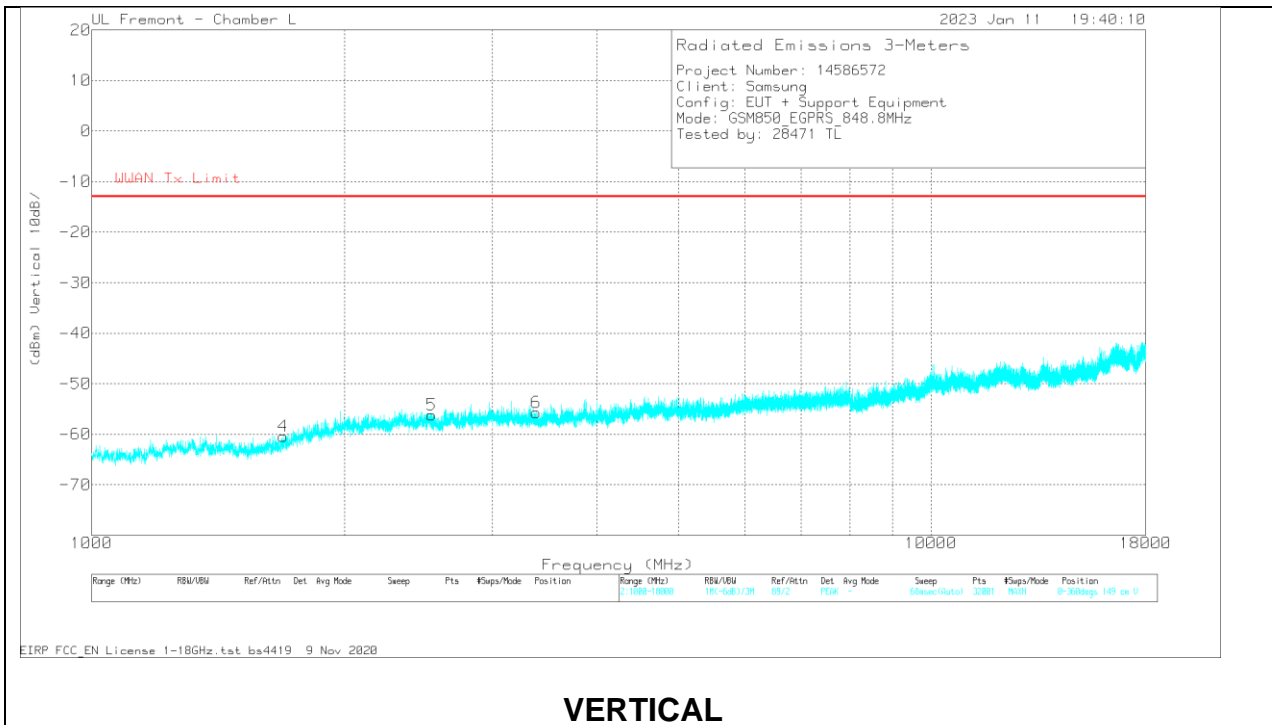


VERTICAL

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB) 3mH	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	WWAN Harmonics Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
LOW CH 824.2 MHz												
1	1657.156	37.01	Pk	28.8	-32	-95.2	-61.39	-13	-48.39	0-360	149	H
2	2472.625	37.31	Pk	32.5	-29.7	-95.2	-55.09	-13	-42.09	0-360	149	H
3	3286.5	35.94	Pk	33.1	-28.7	-95.2	-54.86	-13	-41.86	0-360	149	H
4	1658.75	37.35	Pk	28.8	-32	-95.2	-61.05	-13	-48.05	0-360	149	V
5	2016.813	39.26	Pk	31.9	-30.7	-95.2	-54.74	-13	-41.74	0-360	149	V
6	3320.5	36.76	Pk	33.1	-28.8	-95.2	-54.14	-13	-41.14	0-360	149	V
MID CH 836.6 MHz												
1	1670.969	37.65	Pk	29	-31.9	-95.2	-60.45	-13	-47.45	0-360	149	H
2	2517.25	37.19	Pk	32.5	-29.7	-95.2	-55.21	-13	-42.21	0-360	149	H
3	3339.625	36.31	Pk	33.1	-28.9	-95.2	-54.69	-13	-41.69	0-360	149	H
4	1504.688	39.65	Pk	28.3	-32.4	-95.2	-59.65	-13	-46.65	0-360	149	V
5	2526.813	38.22	Pk	32.5	-29.7	-95.2	-54.18	-13	-41.18	0-360	149	V
6	3325.281	35.91	Pk	33.1	-28.9	-95.2	-55.09	-13	-42.09	0-360	149	V
HIGH CH 848.8 MHz												
1	1692.219	38.52	Pk	29.3	-31.9	-95.2	-59.28	-13	-46.28	0-360	149	H
2	2541.688	36	Pk	32.5	-29.7	-95.2	-56.4	-13	-43.4	0-360	149	H
3	3361.938	35.02	Pk	33.1	-29	-95.2	-56.08	-13	-43.08	0-360	149	H
4	1691.688	37.39	Pk	29.3	-31.9	-95.2	-60.41	-13	-47.41	0-360	149	V
5	2541.156	36.23	Pk	32.5	-29.7	-95.2	-56.17	-13	-43.17	0-360	149	V
6	3386.906	35.32	Pk	33.1	-28.9	-95.2	-55.68	-13	-42.68	0-360	149	V

Pk - Peak detector

10.2.2. GSM 1900

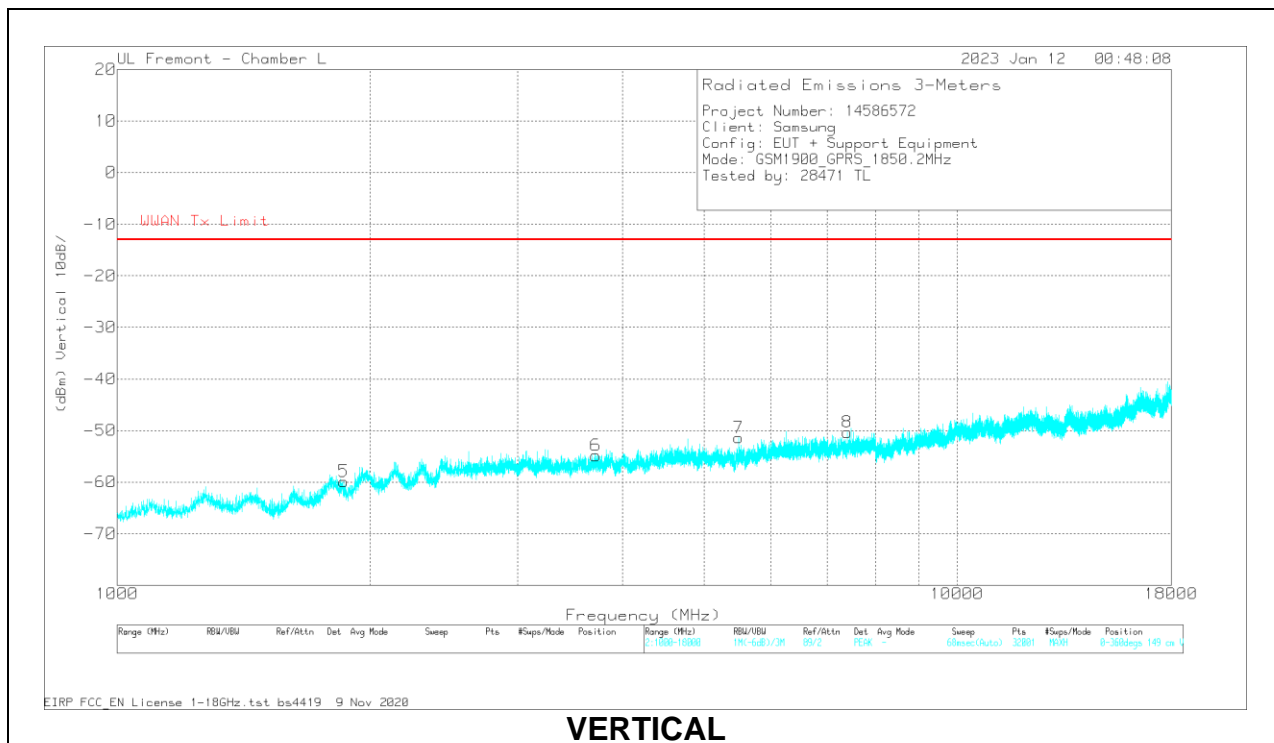
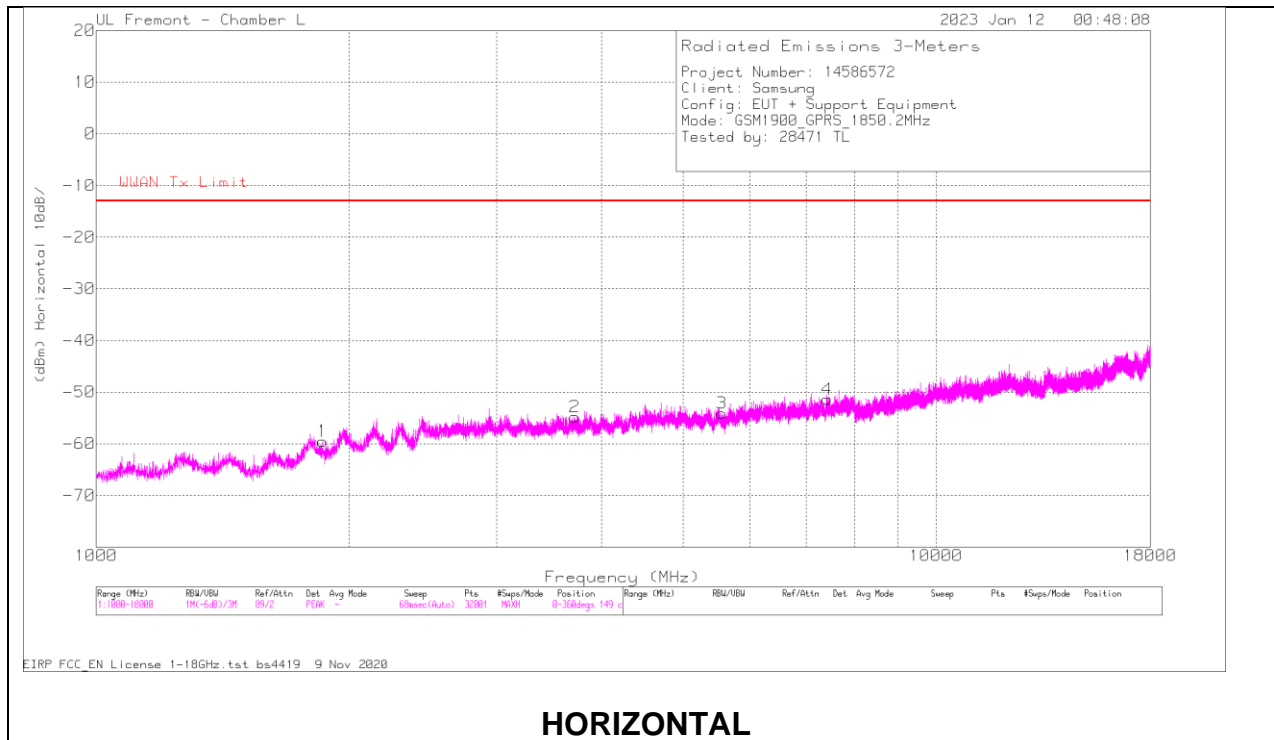
LIMITS

FCC: §24.238(a)

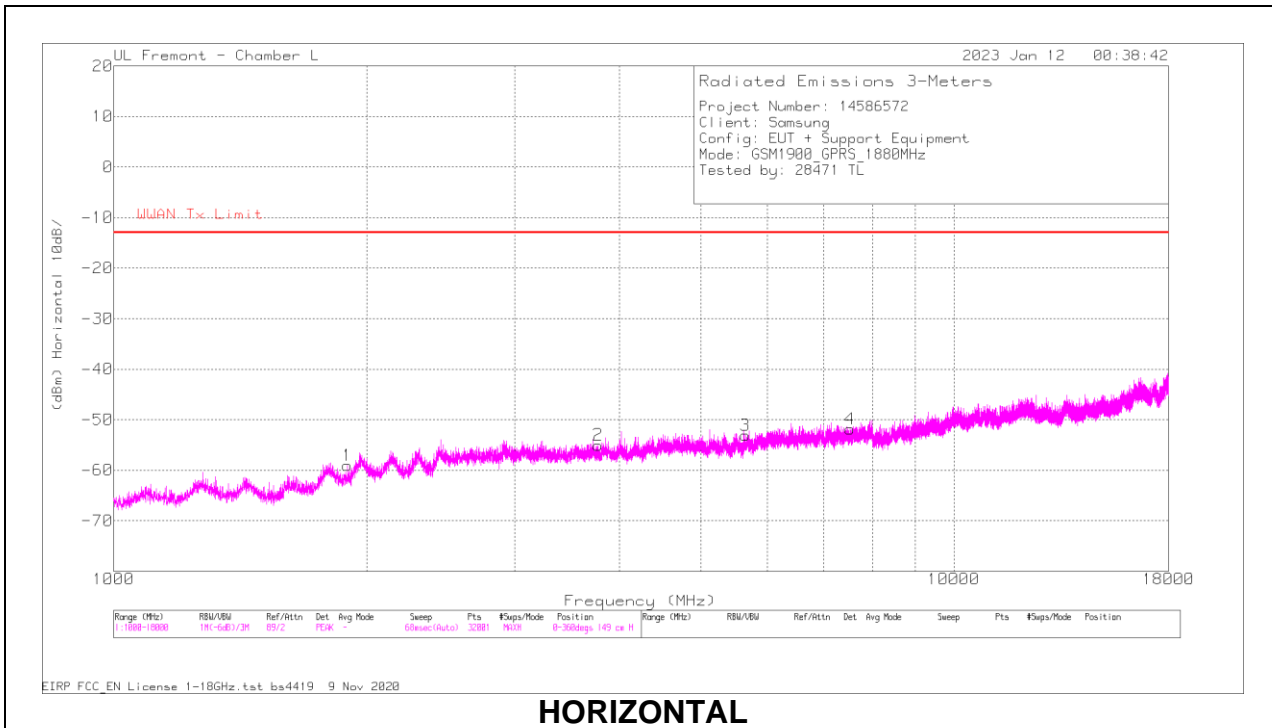
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

GPRS MODE

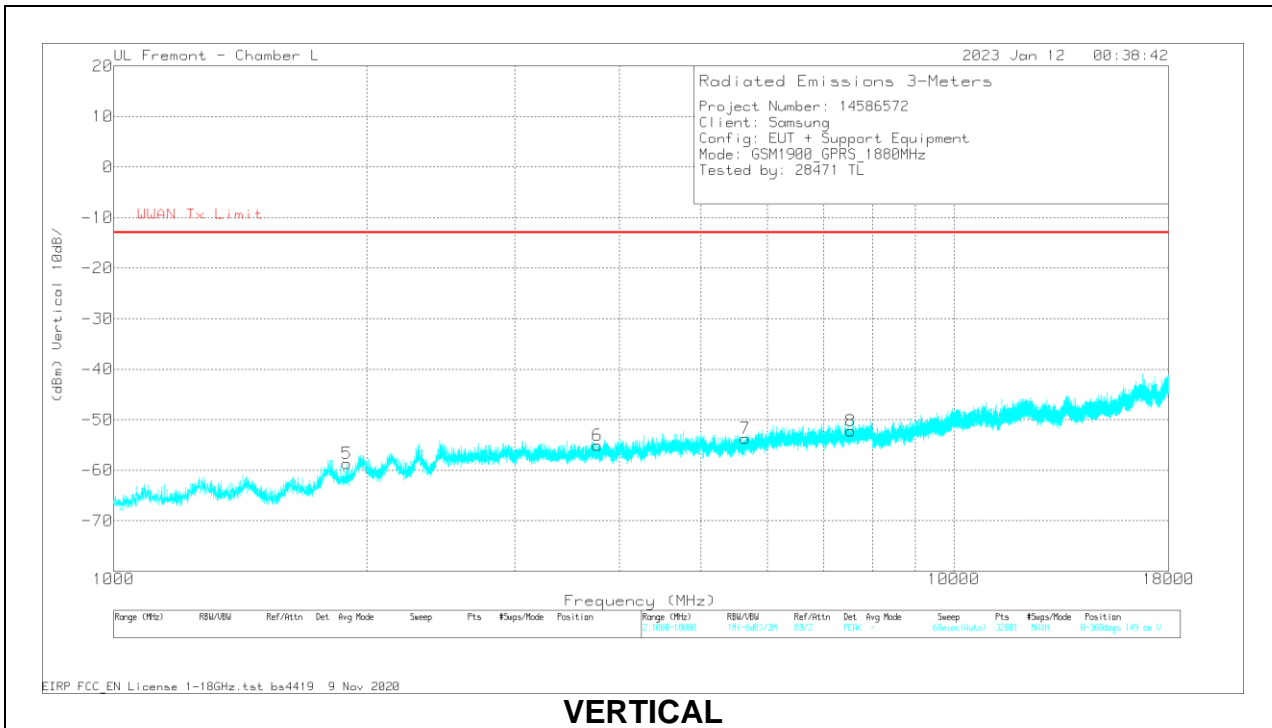
LOW CHANNEL RESULTS



MID CHANNEL RESULTS

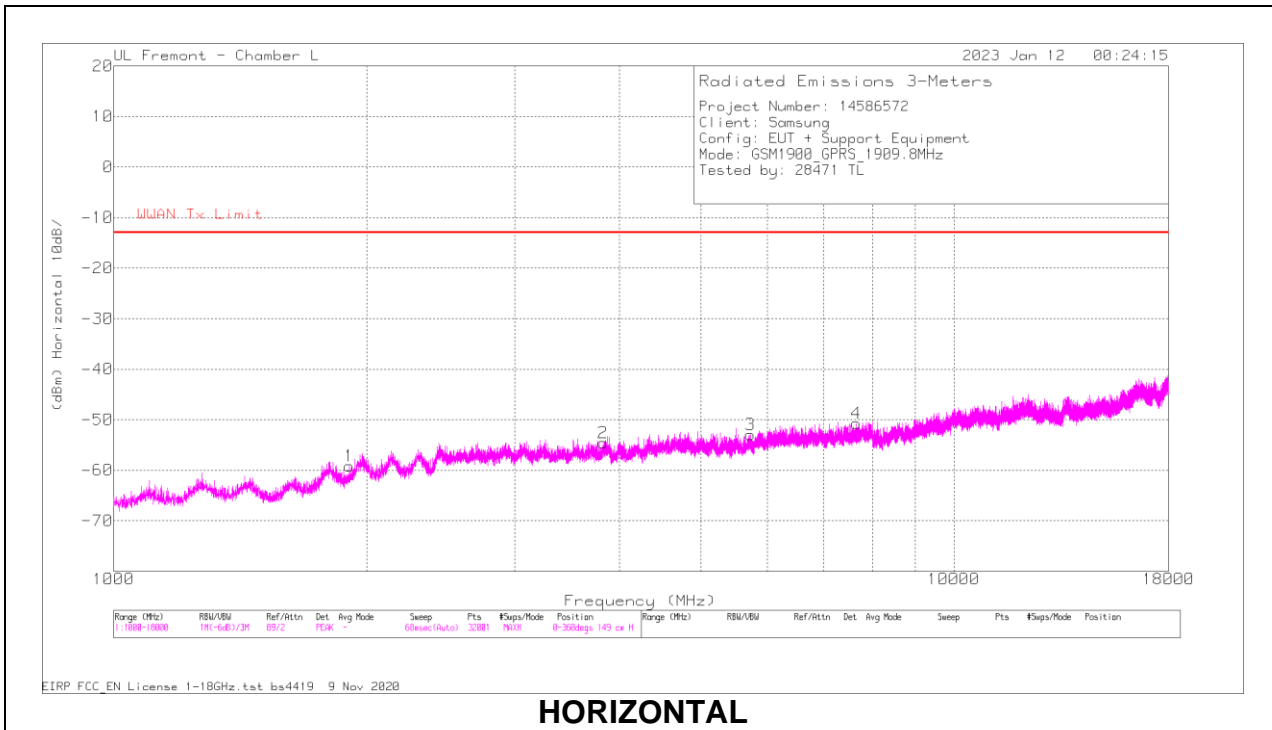


HORIZONTAL

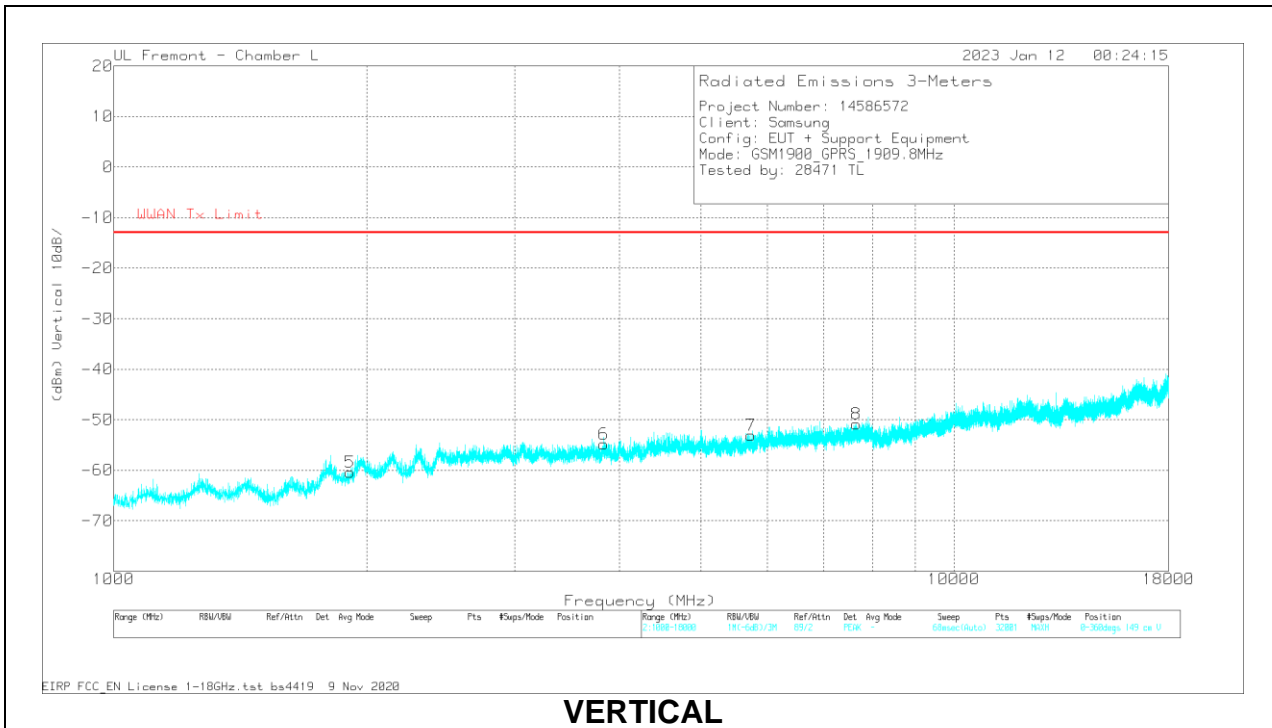


VERTICAL

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

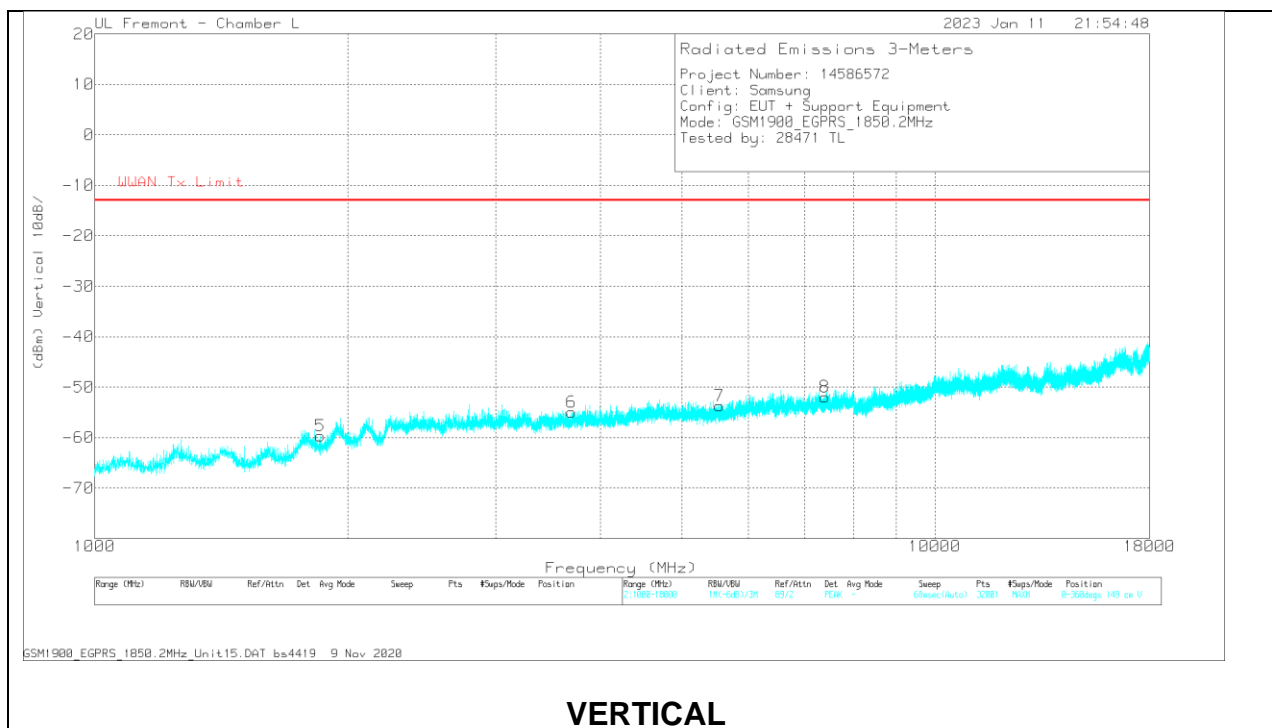
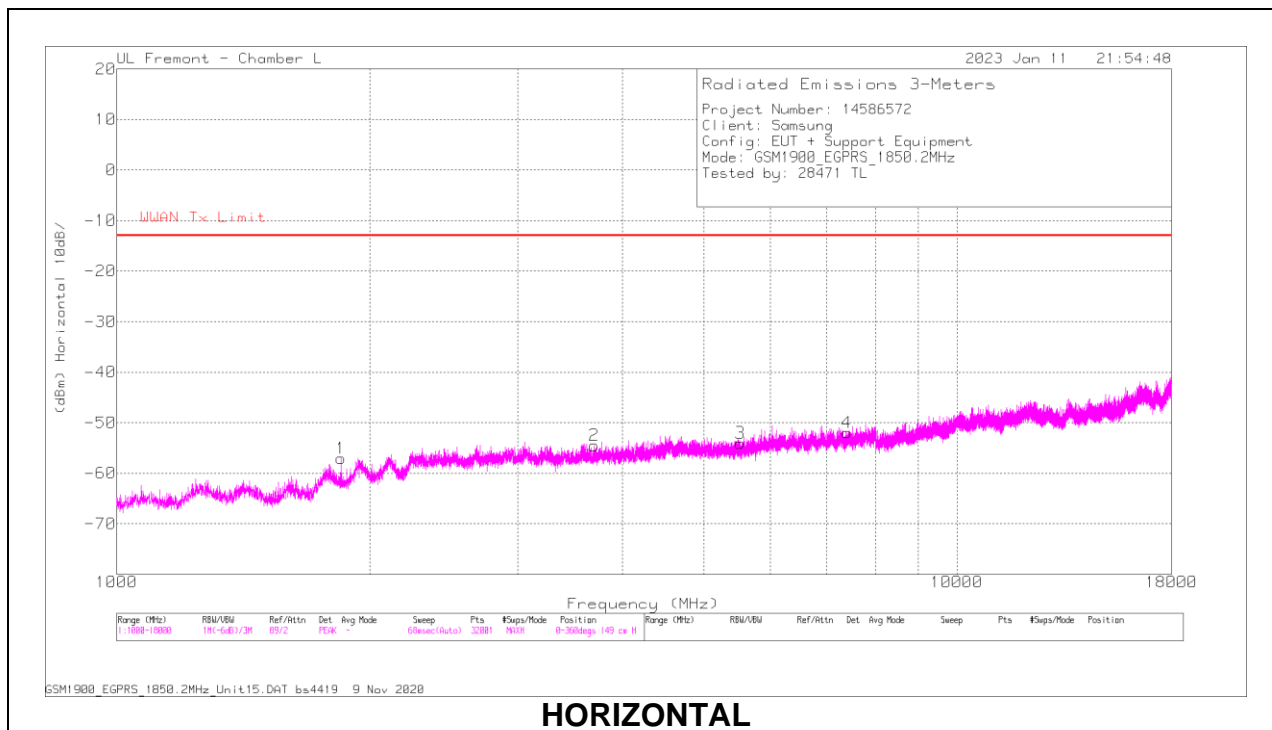
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB) 3mH	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	WWAN Harmonics Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
LOW CH 1850.2 MHz												
1	3714.688	35.4	Pk	33.5	-28.5	-95.2	-54.8	-13	-41.8	0-360	149	H
2	5557.063	32.31	Pk	34.7	-25.9	-95.2	-54.09	-13	-41.09	0-360	149	H
3	7422.813	31.18	Pk	36	-23.4	-95.2	-51.42	-13	-38.42	0-360	149	H
4	3714.688	35.34	Pk	33.5	-28.5	-95.2	-54.86	-13	-41.86	0-360	149	V
5	5494.375	35.39	Pk	34.7	-26.3	-95.2	-51.41	-13	-38.41	0-360	149	V
6	7406.875	32.27	Pk	36	-23.4	-95.2	-50.33	-13	-37.33	0-360	149	V
MID CH 1880 MHz												
1	3768.875	34.88	Pk	33.6	-28.3	-95.2	-55.02	-13	-42.02	0-360	149	H
2	5647.375	33.3	Pk	34.8	-26	-95.2	-53.1	-13	-40.1	0-360	149	H
3	7523.219	30.38	Pk	36	-23	-95.2	-51.82	-13	-38.82	0-360	149	H
4	3767.813	34.87	Pk	33.6	-28.3	-95.2	-55.03	-13	-42.03	0-360	149	V
5	5646.313	32.63	Pk	34.8	-26	-95.2	-53.77	-13	-40.77	0-360	149	V
6	7530.125	29.93	Pk	36	-22.9	-95.2	-52.17	-13	-39.17	0-360	149	V
HIGH CH 1909.8 MHz												
1	3820.938	34.94	Pk	33.6	-27.9	-95.2	-54.56	-13	-41.56	0-360	149	H
2	5720.156	33.22	Pk	35	-26	-95.2	-52.98	-13	-39.98	0-360	149	H
3	7647	31.35	Pk	36	-22.9	-95.2	-50.75	-13	-37.75	0-360	149	H
4	3828.375	34.72	Pk	33.6	-28	-95.2	-54.88	-13	-41.88	0-360	149	V
5	5736.094	33	Pk	35.1	-26	-95.2	-53.1	-13	-40.1	0-360	149	V
6	7646.469	31.19	Pk	36	-22.9	-95.2	-50.91	-13	-37.91	0-360	149	V

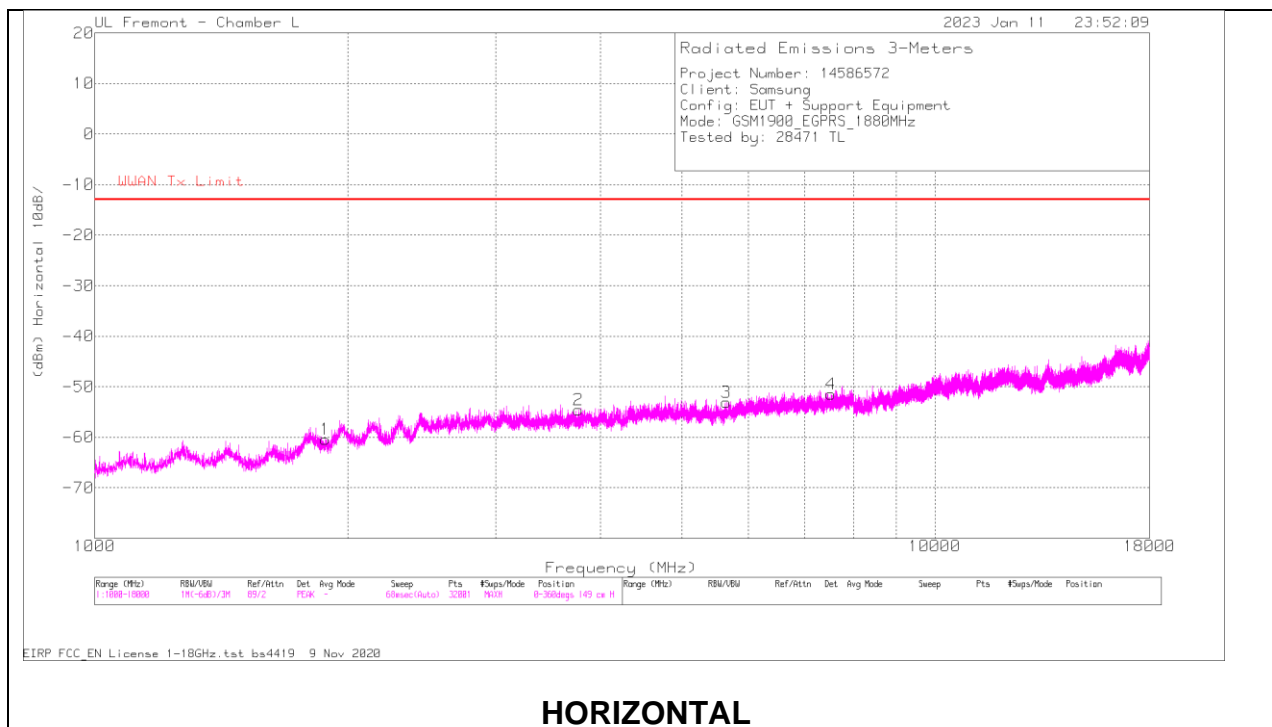
Pk - Peak detector

EGPRS MODE

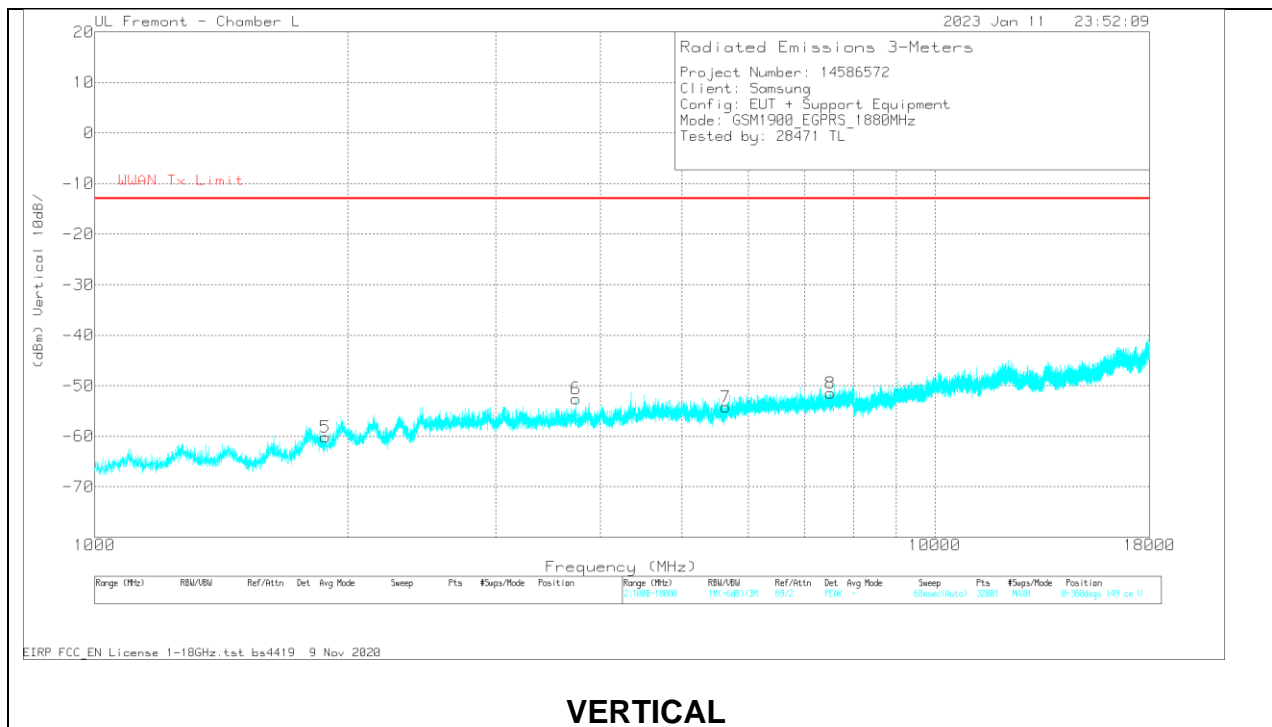
LOW CHANNEL RESULTS



MID CHANNEL RESULTS

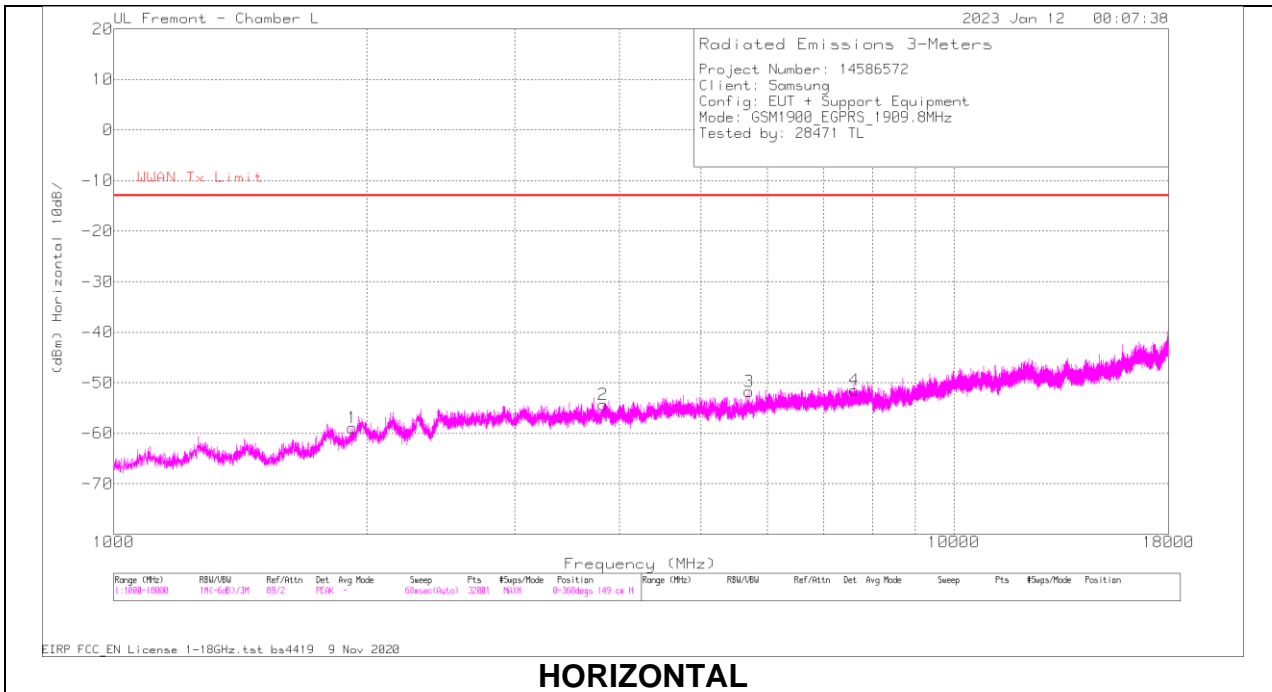


HORIZONTAL

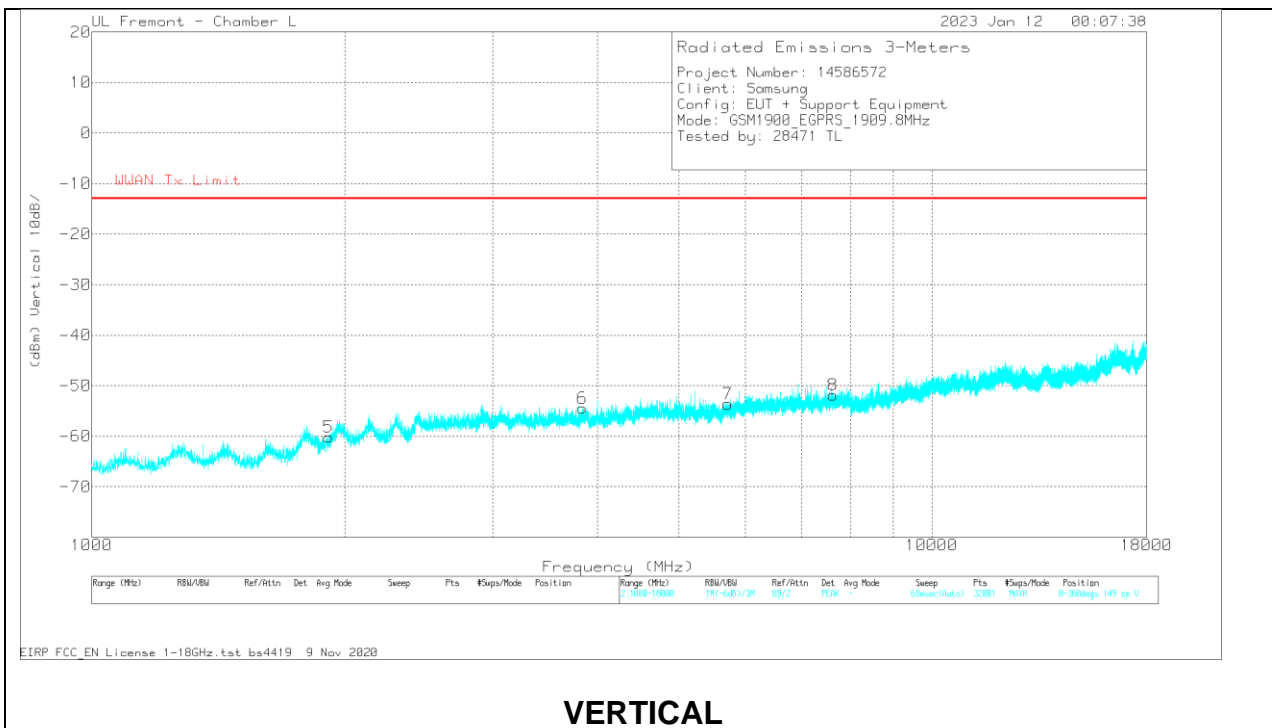


VERTICAL

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB) 3mH	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	WWAN Harmonics Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
LOW CH 1850.2 MHz												
1	3701.938	35.68	Pk	33.5	-28.5	-95.2	-54.52	-13	-41.52	0-360	149	H
2	5568.75	32.57	Pk	34.7	-25.8	-95.2	-53.73	-13	-40.73	0-360	149	H
3	7371.813	31.09	Pk	35.9	-23.7	-95.2	-51.91	-13	-38.91	0-360	149	H
4	3696.625	35.3	Pk	33.5	-28.6	-95.2	-55	-13	-42	0-360	149	V
5	5569.281	32.92	Pk	34.7	-25.8	-95.2	-53.38	-13	-40.38	0-360	149	V
6	7390.938	30.98	Pk	35.9	-23.6	-95.2	-51.92	-13	-38.92	0-360	149	V
MID CH 1880 MHz												
1	3765.156	35.22	Pk	33.6	-28.2	-95.2	-54.58	-13	-41.58	0-360	149	H
2	5643.125	33.3	Pk	34.8	-26	-95.2	-53.1	-13	-40.1	0-360	149	H
3	7524.813	30.67	Pk	36	-23	-95.2	-51.53	-13	-38.53	0-360	149	H
4	3738.594	37.46	Pk	33.6	-28.4	-95.2	-52.54	-13	-39.54	0-360	149	V
5	5635.688	32.24	Pk	34.7	-26	-95.2	-54.26	-13	-41.26	0-360	149	V
6	7506.75	30.95	Pk	36	-23.2	-95.2	-51.45	-13	-38.45	0-360	149	V
HIGH CH 1909.8 MHz												
1	3822.531	35.04	Pk	33.6	-27.8	-95.2	-54.36	-13	-41.36	0-360	149	H
2	5701.563	34.59	Pk	34.9	-26	-95.2	-51.71	-13	-38.71	0-360	149	H
3	7615.656	30.75	Pk	36	-23	-95.2	-51.45	-13	-38.45	0-360	149	H
4	3839.531	35.29	Pk	33.6	-28.1	-95.2	-54.41	-13	-41.41	0-360	149	V
5	5718.563	32.55	Pk	35	-26	-95.2	-53.65	-13	-40.65	0-360	149	V
6	7630.531	30.46	Pk	36	-23.1	-95.2	-51.84	-13	-38.84	0-360	149	V

Pk - Peak detector

10.2.3. WCDMA BAND 5

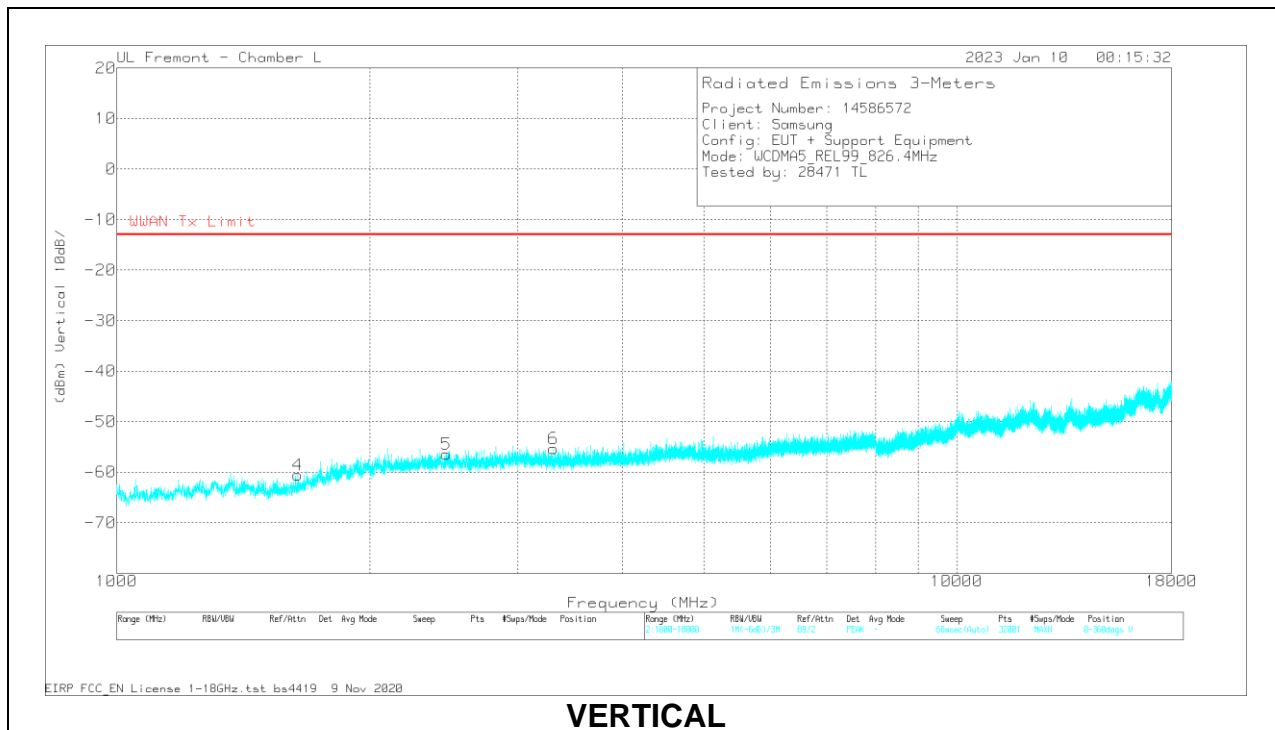
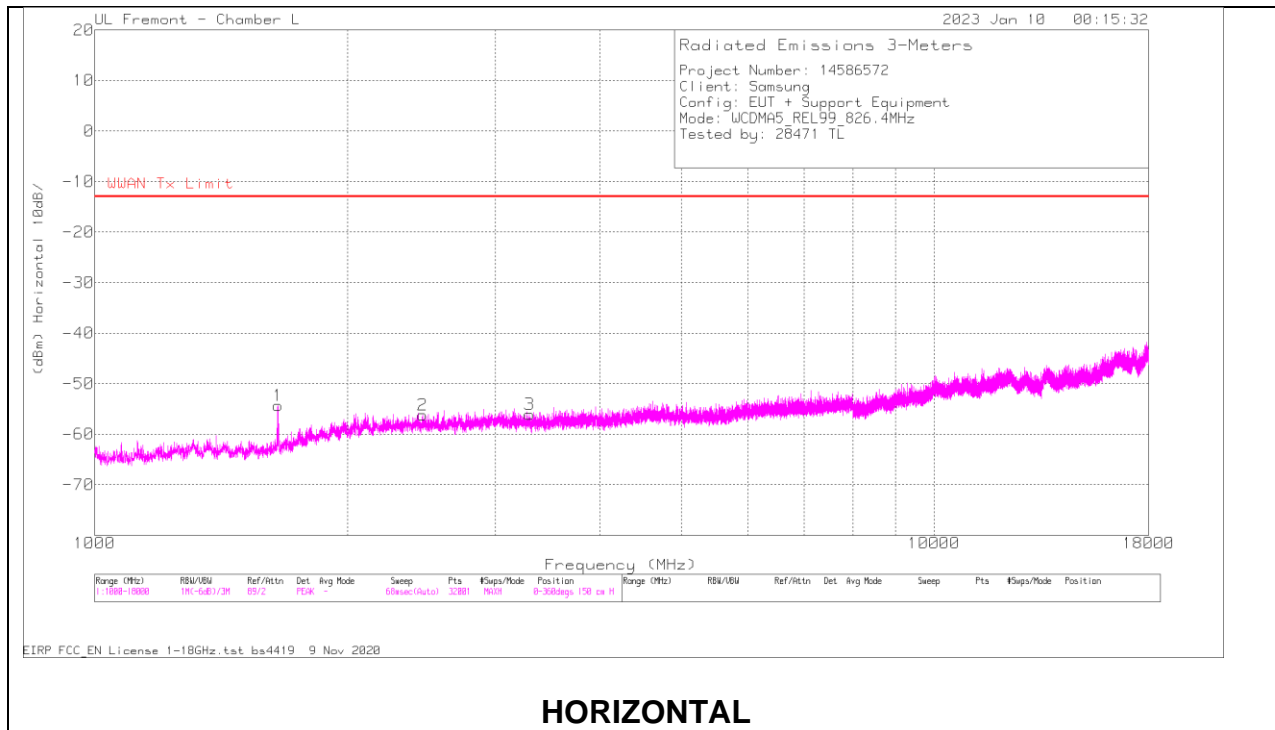
LIMITS

FCC: §22.917(a)

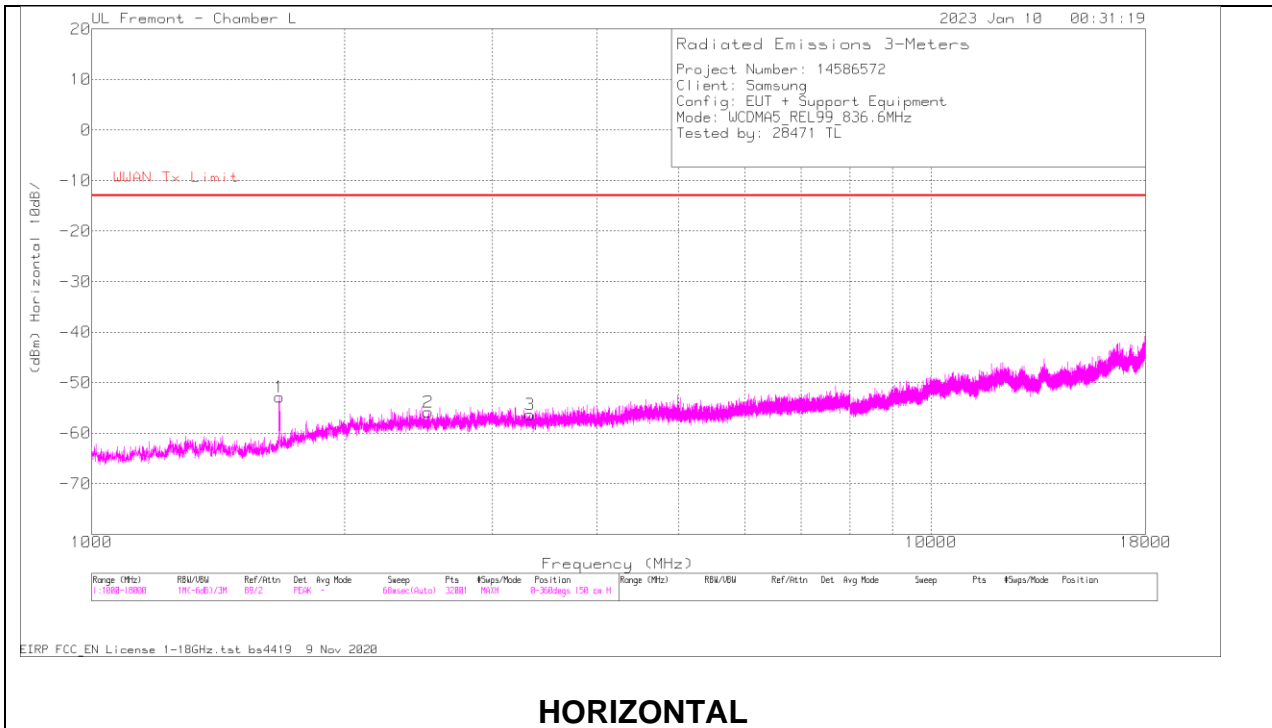
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

REL 99 MODE

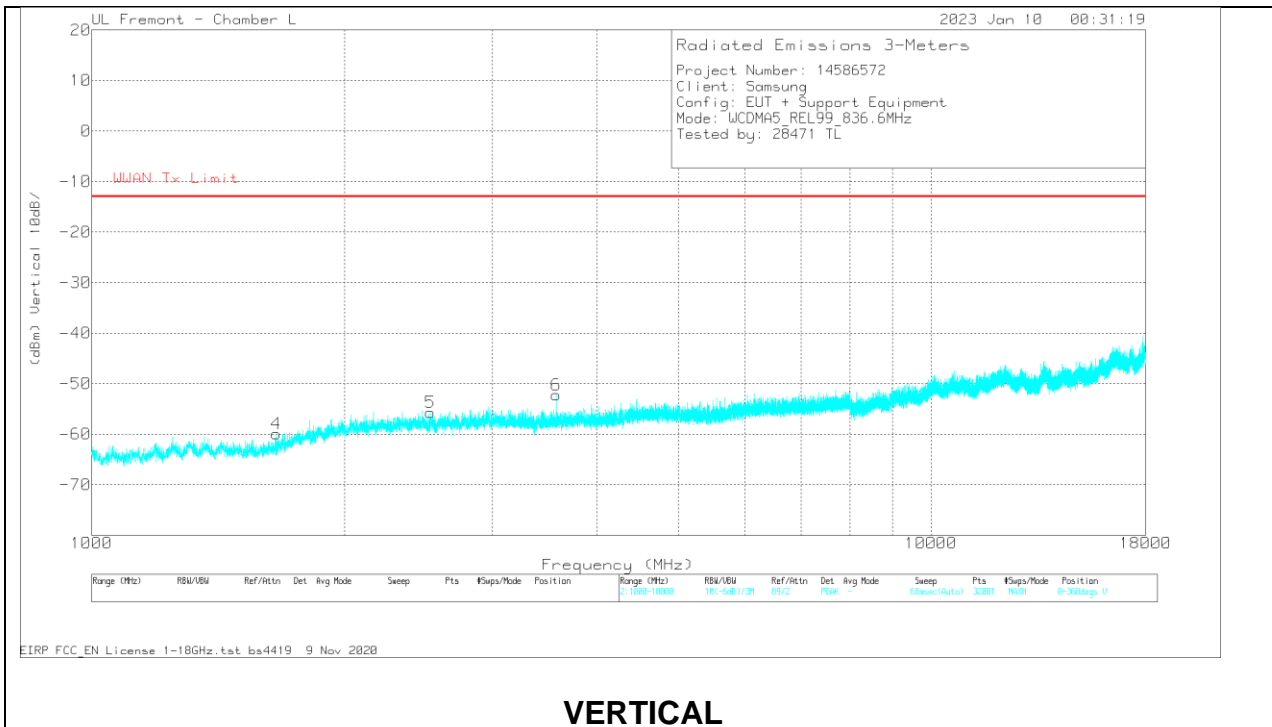
LOW CHANNEL RESULTS



MID CHANNEL RESULTS

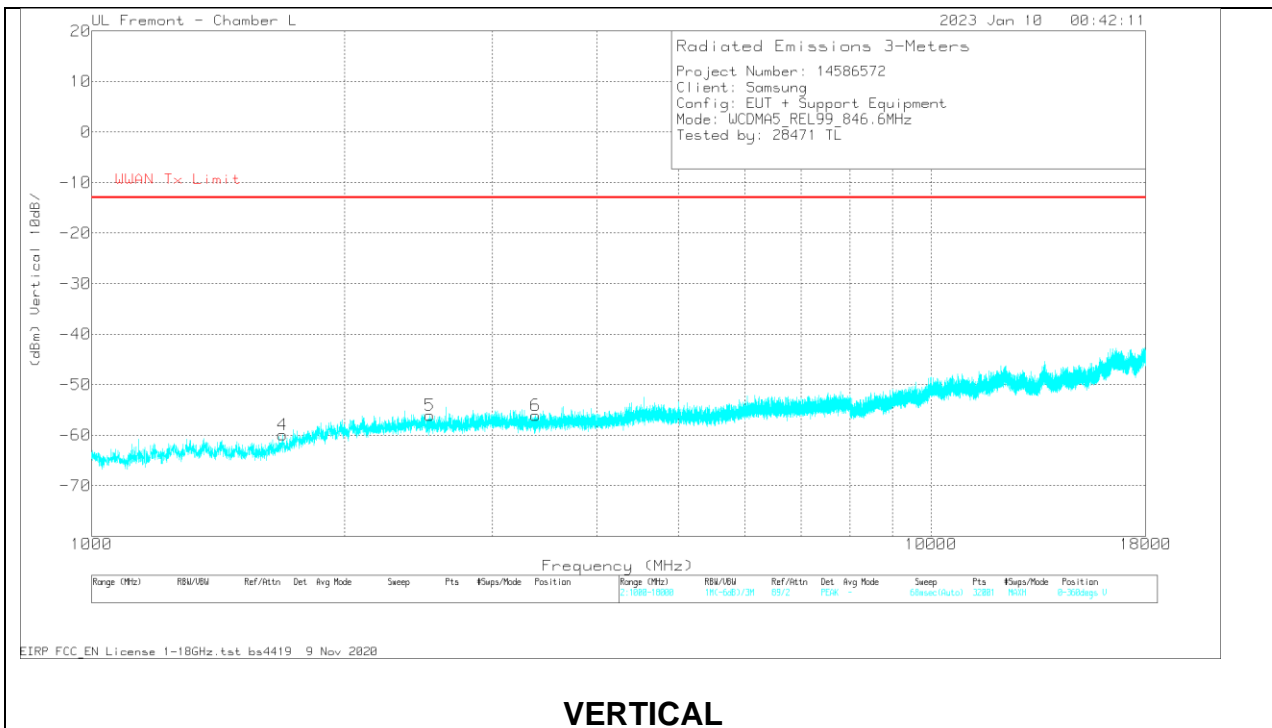
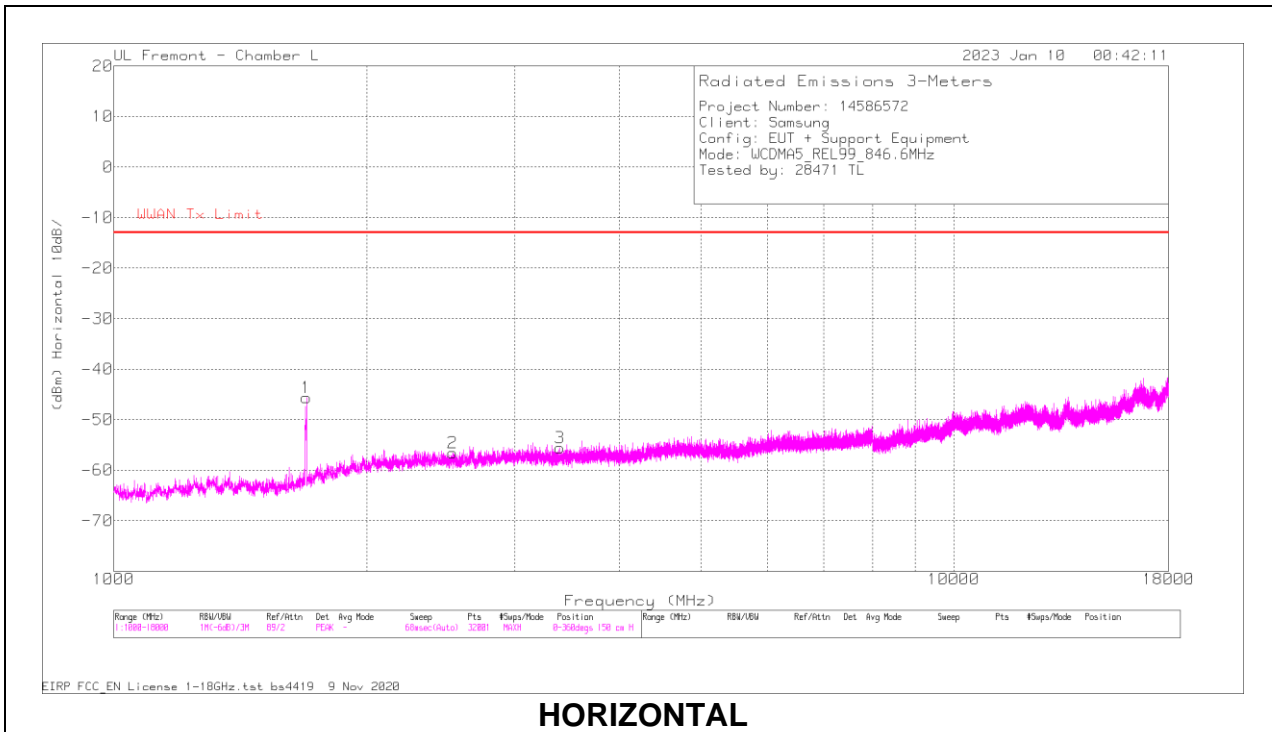


HORIZONTAL



VERTICAL

HIGH CHANNEL RESULTS



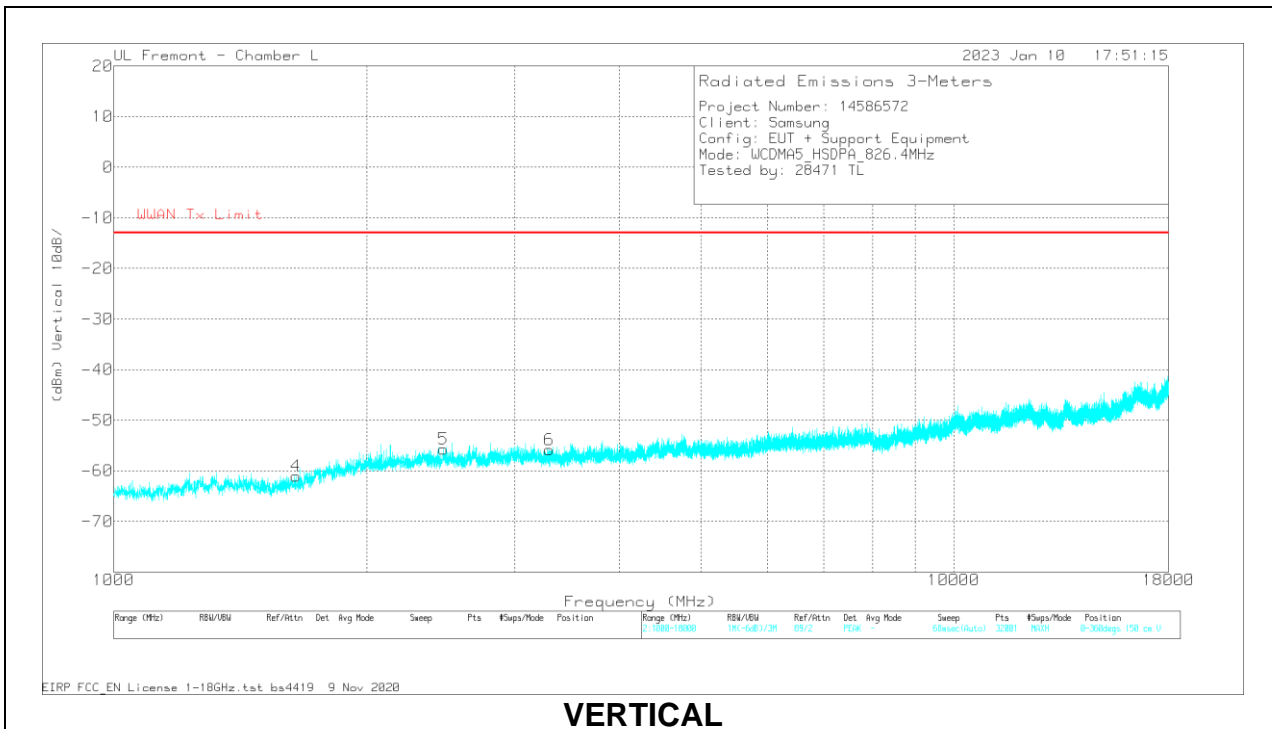
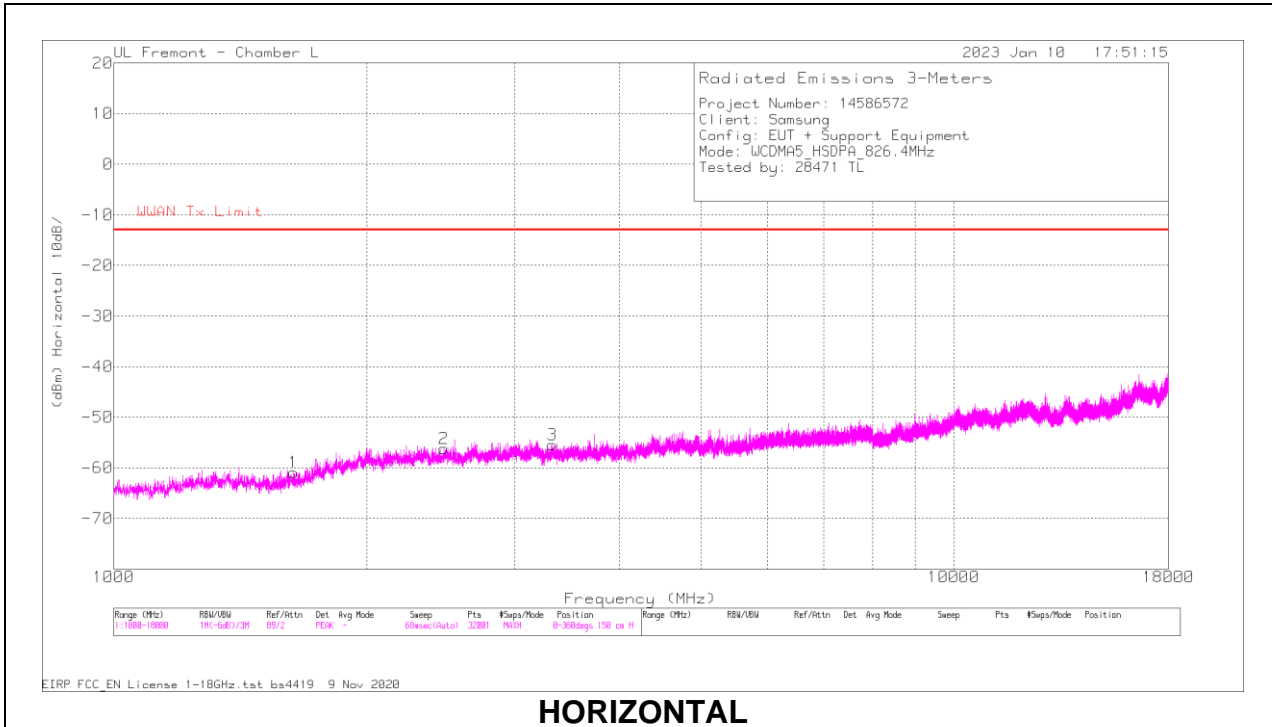
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB) 3mH	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	WWAN Harmonics Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
826.4 MHz												
1	1653.969	44.11	Pk	28.7	-32	-95.2	-54.39	-13	-41.39	0-360	150	H
2	2458.281	36.11	Pk	32.6	-29.7	-95.2	-56.19	-13	-43.19	0-360	150	H
3	3295.531	34.69	Pk	33.1	-28.7	-95.2	-56.11	-13	-43.11	0-360	150	H
4	1643.344	38.14	Pk	28.6	-32.1	-95.2	-60.56	-13	-47.56	0-360	150	V
5	2469.438	35.91	Pk	32.6	-29.7	-95.2	-56.39	-13	-43.39	0-360	150	V
6	3309.875	35.55	Pk	33.1	-28.8	-95.2	-55.35	-13	-42.35	0-360	150	V
836.6 MHz												
1	1674.156	45.25	Pk	29	-31.9	-95.2	-52.85	-13	-39.85	0-360	150	H
2	2516.719	36.53	Pk	32.5	-29.7	-95.2	-55.87	-13	-42.87	0-360	150	H
3	3324.219	34.56	Pk	33.1	-28.8	-95.2	-56.34	-13	-43.34	0-360	150	H
4	1658.219	38.43	Pk	28.8	-32	-95.2	-59.97	-13	-46.97	0-360	150	V
5	2531.594	36.7	Pk	32.5	-29.7	-95.2	-55.7	-13	-42.7	0-360	150	V
6	3576.563	37.85	Pk	33.4	-28.3	-95.2	-52.25	-13	-39.25	0-360	150	V
846.6 MHz												
1	1695.406	52.05	Pk	29.3	-31.8	-95.2	-45.65	-13	-32.65	0-360	150	H
2	2532.656	35.81	Pk	32.5	-29.7	-95.2	-56.59	-13	-43.59	0-360	150	H
3	3394.875	35.28	Pk	33.2	-28.9	-95.2	-55.62	-13	-42.62	0-360	150	H
4	1688.5	37.94	Pk	29.2	-31.9	-95.2	-59.96	-13	-46.96	0-360	150	V
5	2527.344	36.38	Pk	32.5	-29.7	-95.2	-56.02	-13	-43.02	0-360	150	V
6	3378.938	35.05	Pk	33.1	-29	-95.2	-56.05	-13	-43.05	0-360	150	V

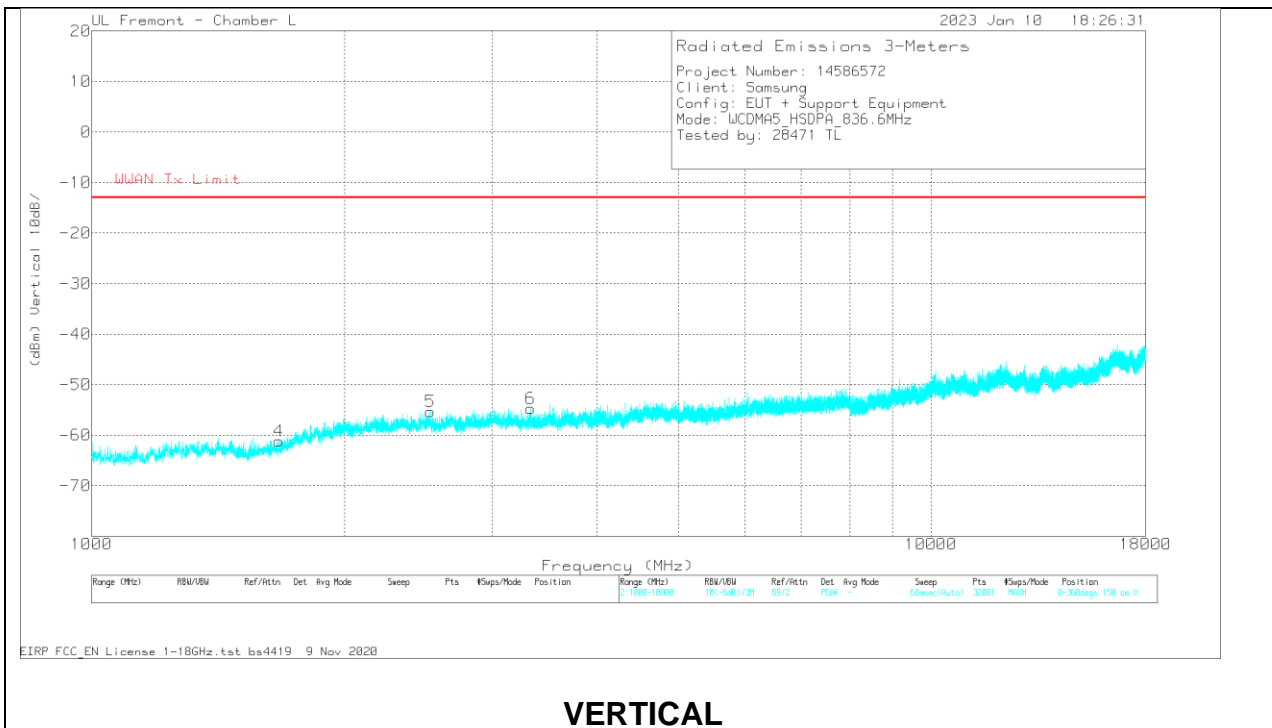
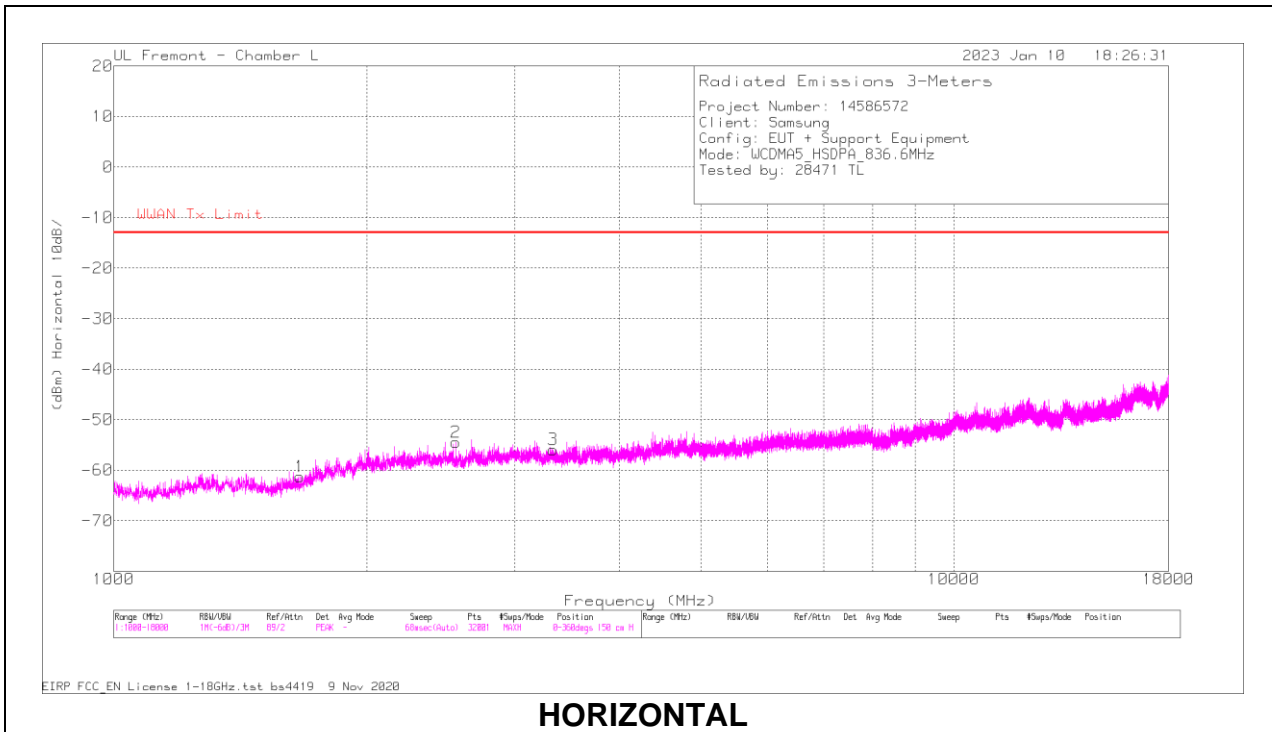
Pk - Peak detector

HSDPA MODE

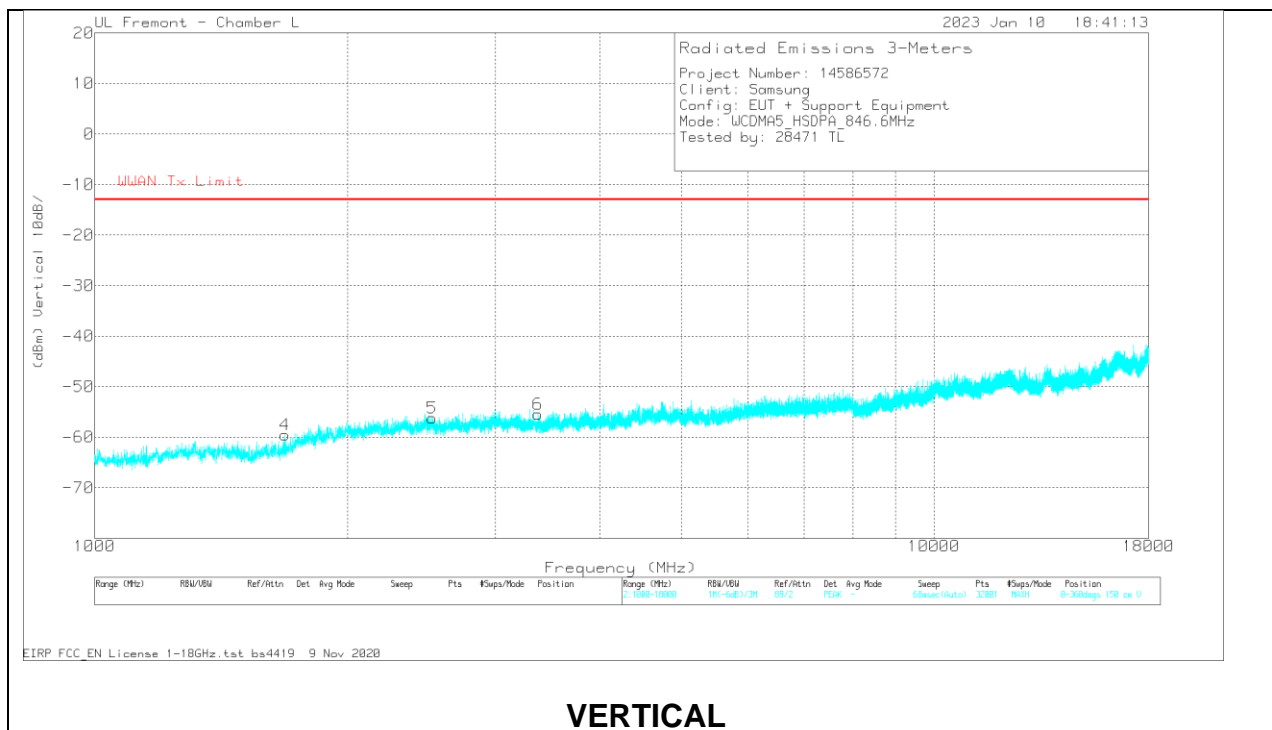
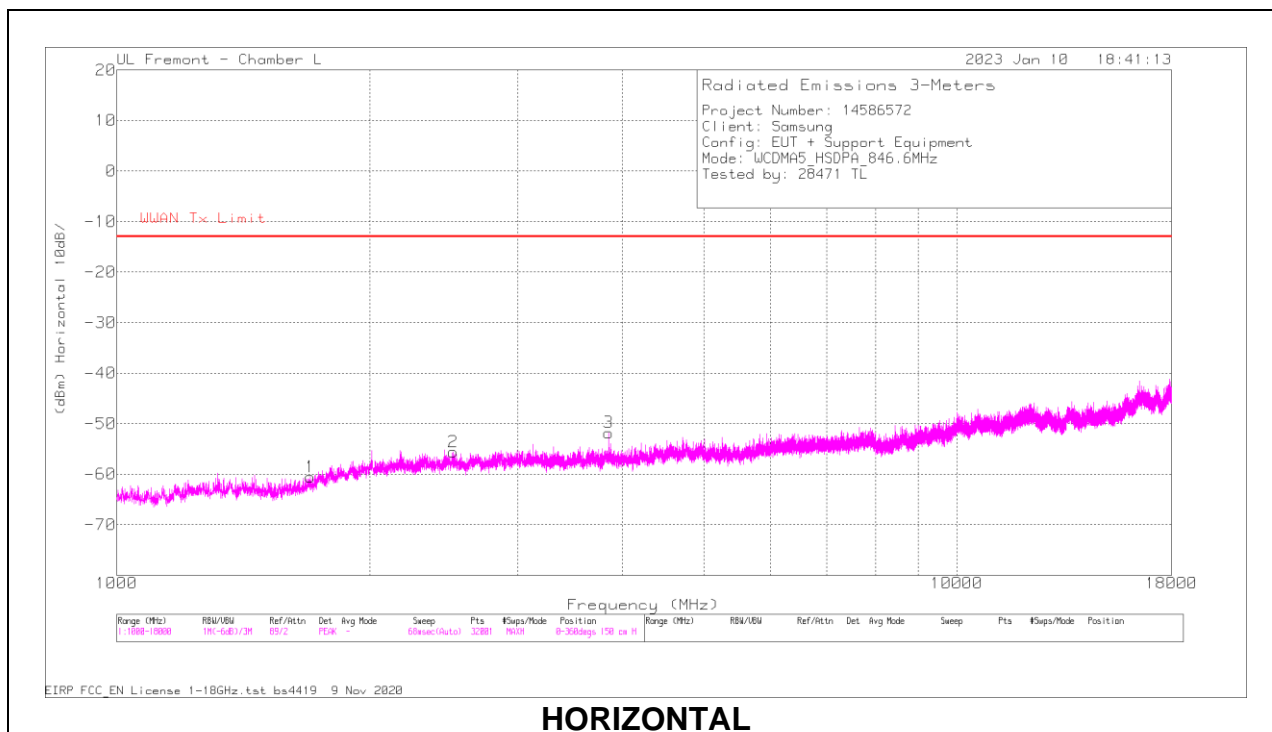
LOW CHANNEL RESULTS



MID CHANNEL RESULTS



HIGH CHANNEL RESULTS



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB) 3mH	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	WWAN Harmonics Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
826.4 MHz												
1	1636.969	37.77	Pk	28.6	-32.1	-95.2	-60.93	-13	-47.93	0-360	150	H
2	2472.094	36.17	Pk	32.5	-29.7	-95.2	-56.23	-13	-43.23	0-360	150	H
3	3324.75	35.56	Pk	33.1	-28.9	-95.2	-55.44	-13	-42.44	0-360	150	H
4	1647.063	37.58	Pk	28.7	-32.1	-95.2	-61.02	-13	-48.02	0-360	150	V
5	2469.438	36.63	Pk	32.6	-29.7	-95.2	-55.67	-13	-42.67	0-360	150	V
6	3299.25	35.06	Pk	33.1	-28.8	-95.2	-55.84	-13	-42.84	0-360	150	V
836.6 MHz												
1	1665.656	37.02	Pk	28.9	-32	-95.2	-61.28	-13	-48.28	0-360	150	H
2	2552.844	37.94	Pk	32.5	-29.7	-95.2	-54.46	-13	-41.46	0-360	150	H
3	3330.063	35.11	Pk	33.1	-28.9	-95.2	-55.89	-13	-42.89	0-360	150	H
4	1672.031	36.91	Pk	29	-31.9	-95.2	-61.19	-13	-48.19	0-360	150	V
5	2531.594	37.06	Pk	32.5	-29.7	-95.2	-55.34	-13	-42.34	0-360	150	V
6	3333.781	36.29	Pk	33.1	-28.9	-95.2	-54.71	-13	-41.71	0-360	150	V
846.6 MHz												
1	1699.656	37.01	Pk	29.4	-31.8	-95.2	-60.59	-13	-47.59	0-360	150	H
2	2513	36.86	Pk	32.5	-29.7	-95.2	-55.54	-13	-42.54	0-360	150	H
3	3850.688	37.91	Pk	33.6	-28.1	-95.2	-51.79	-13	-38.79	0-360	150	H
4	1685.844	38.36	Pk	29.2	-31.9	-95.2	-59.54	-13	-46.54	0-360	150	V
5	2523.094	36.24	Pk	32.5	-29.7	-95.2	-56.16	-13	-43.16	0-360	150	V
6	3373.359	35.64	Pk	33.1	-29	-95.2	-55.46	-13	-42.46	0-360	150	V

Pk - Peak detector

10.2.4. WCDMA BAND 2

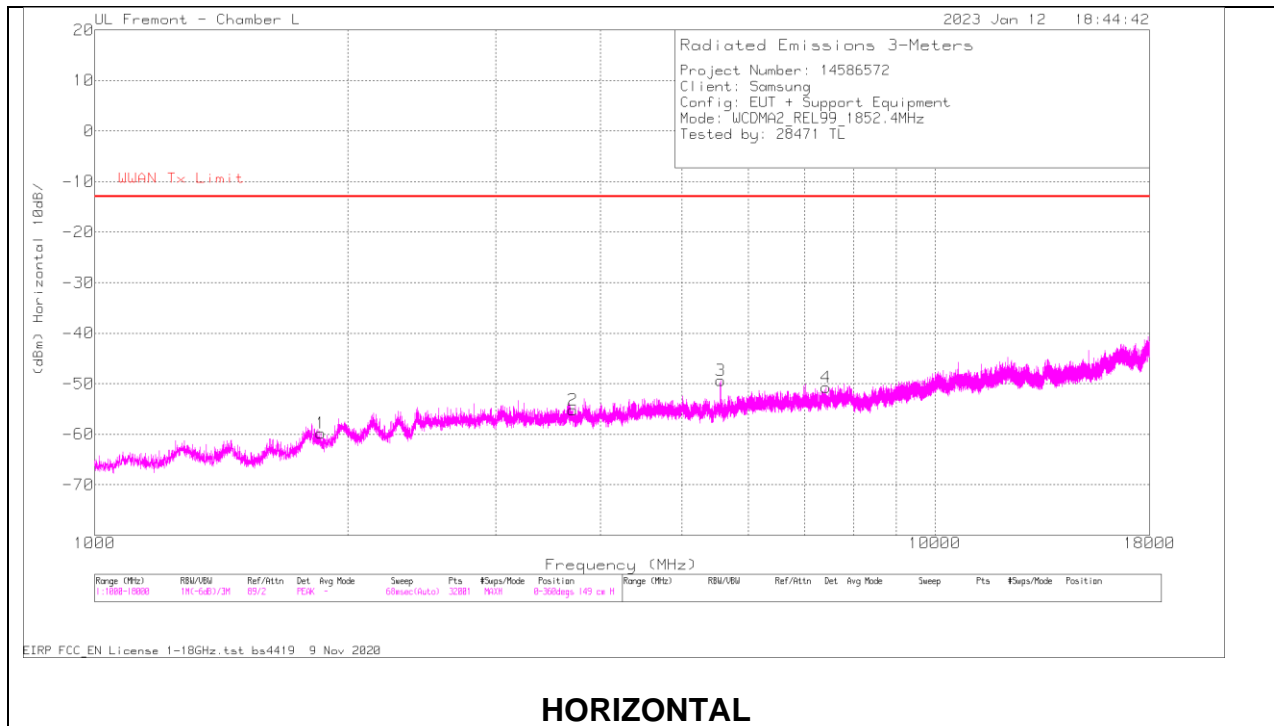
LIMITS

FCC: §24.238(a)

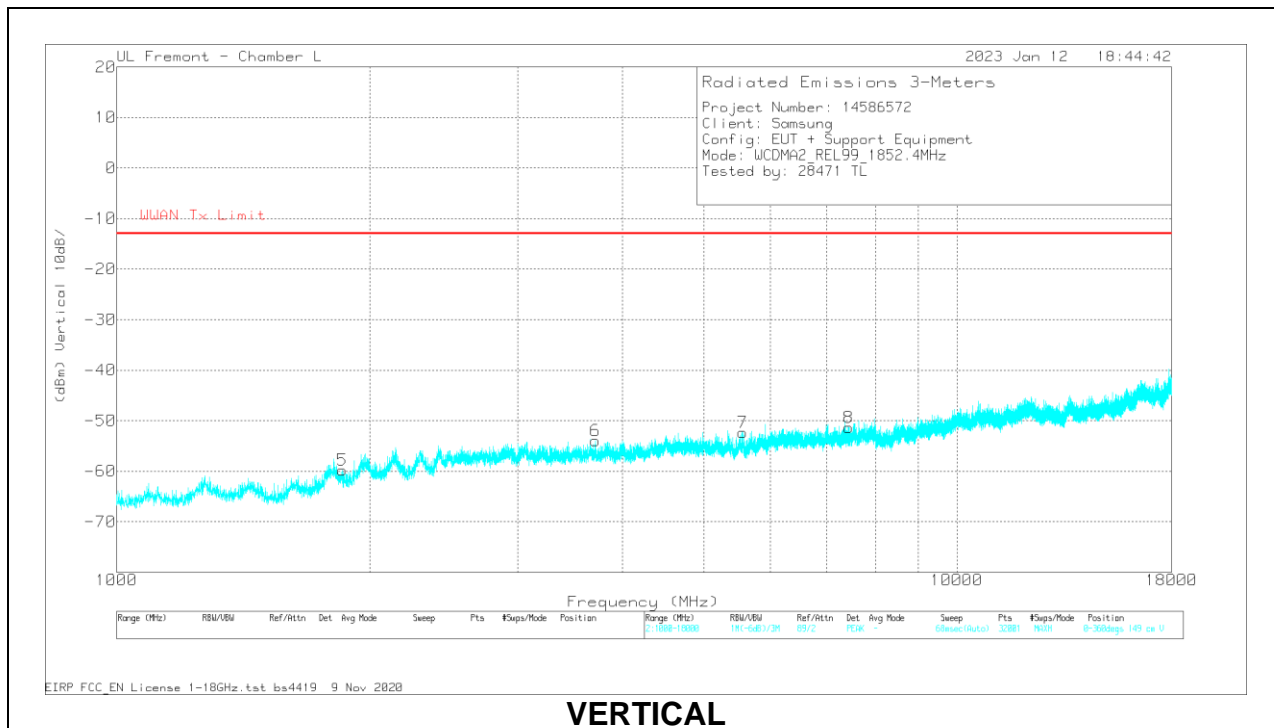
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

REL 99 MODE

LOW CHANNEL RESULTS

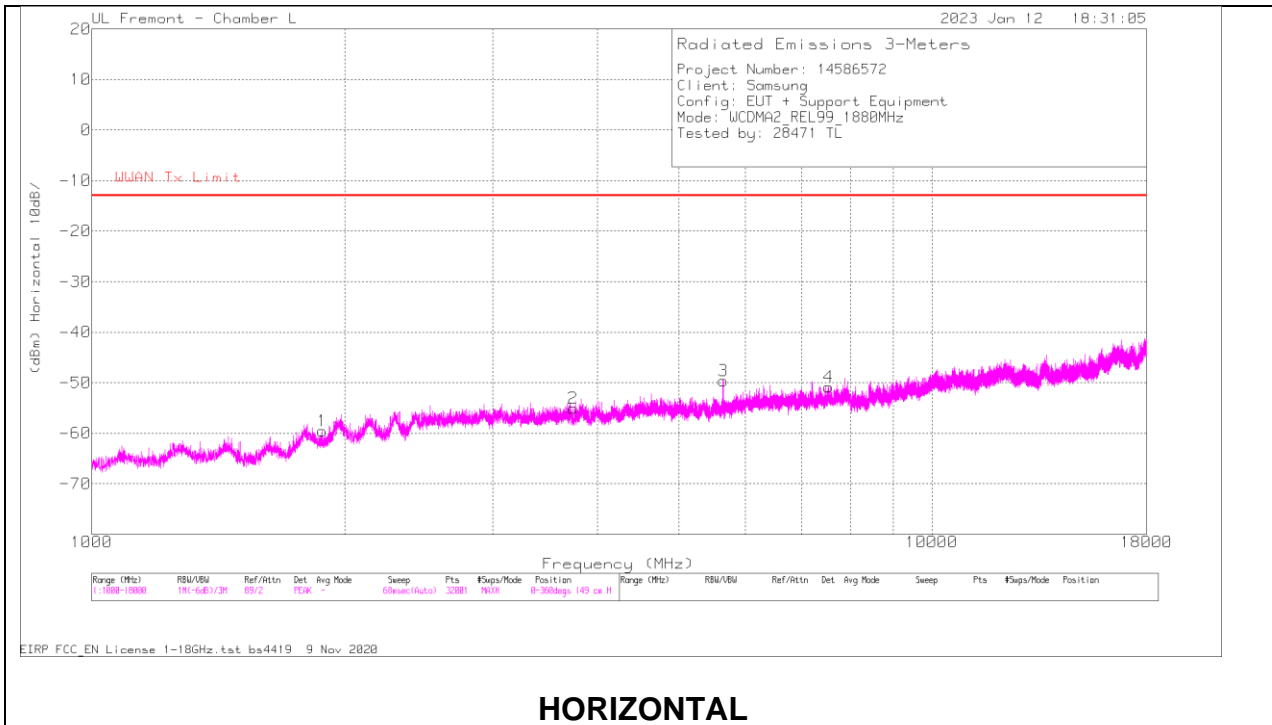


HORIZONTAL

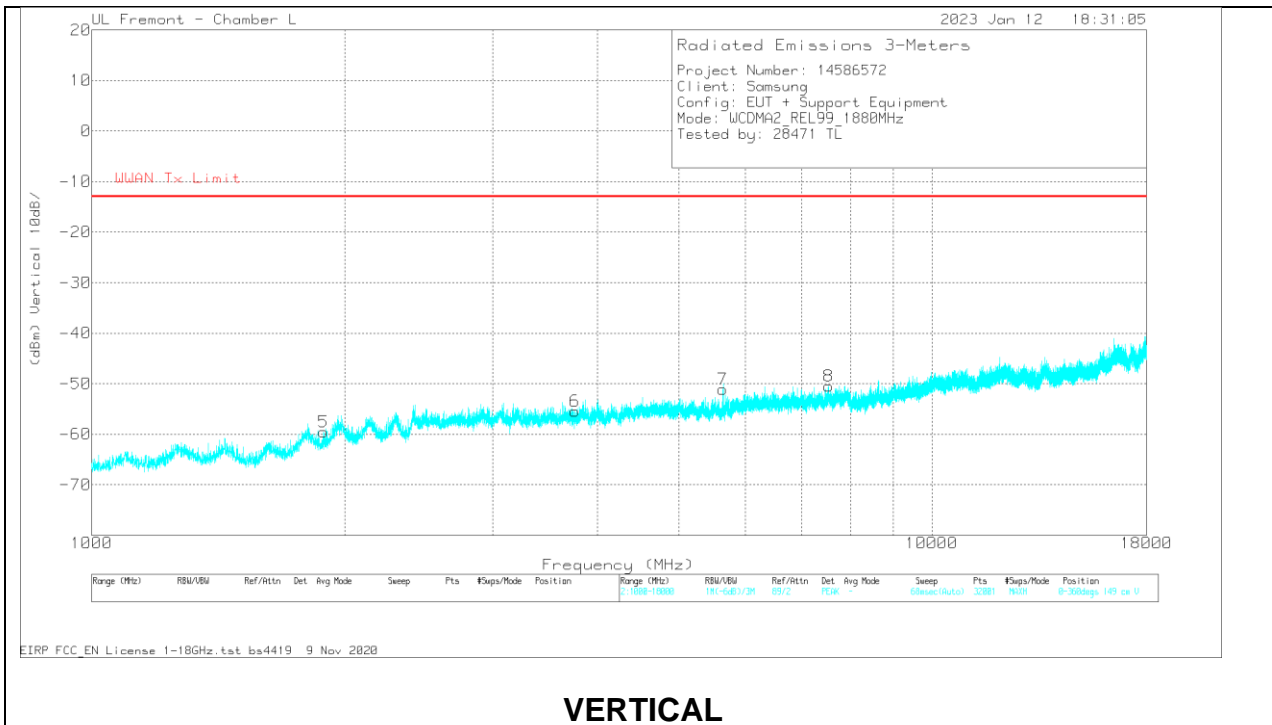


VERTICAL

MID CHANNEL RESULTS

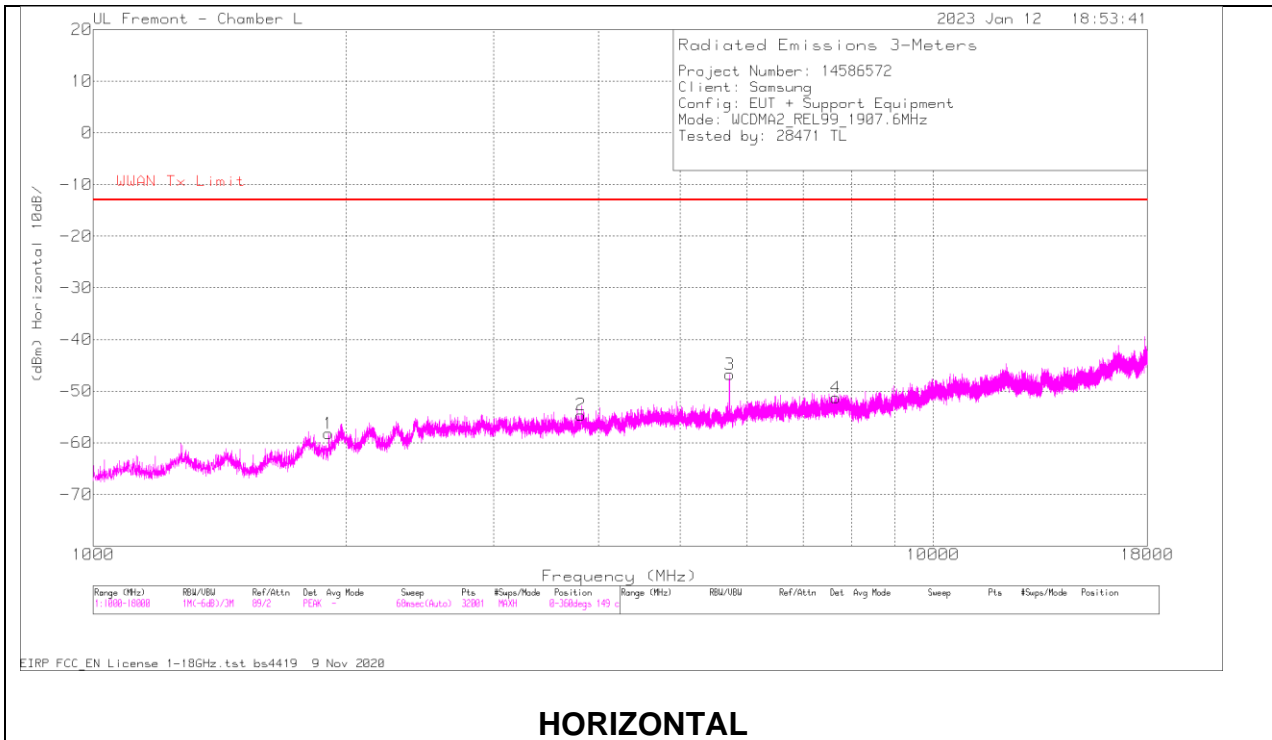


HORIZONTAL

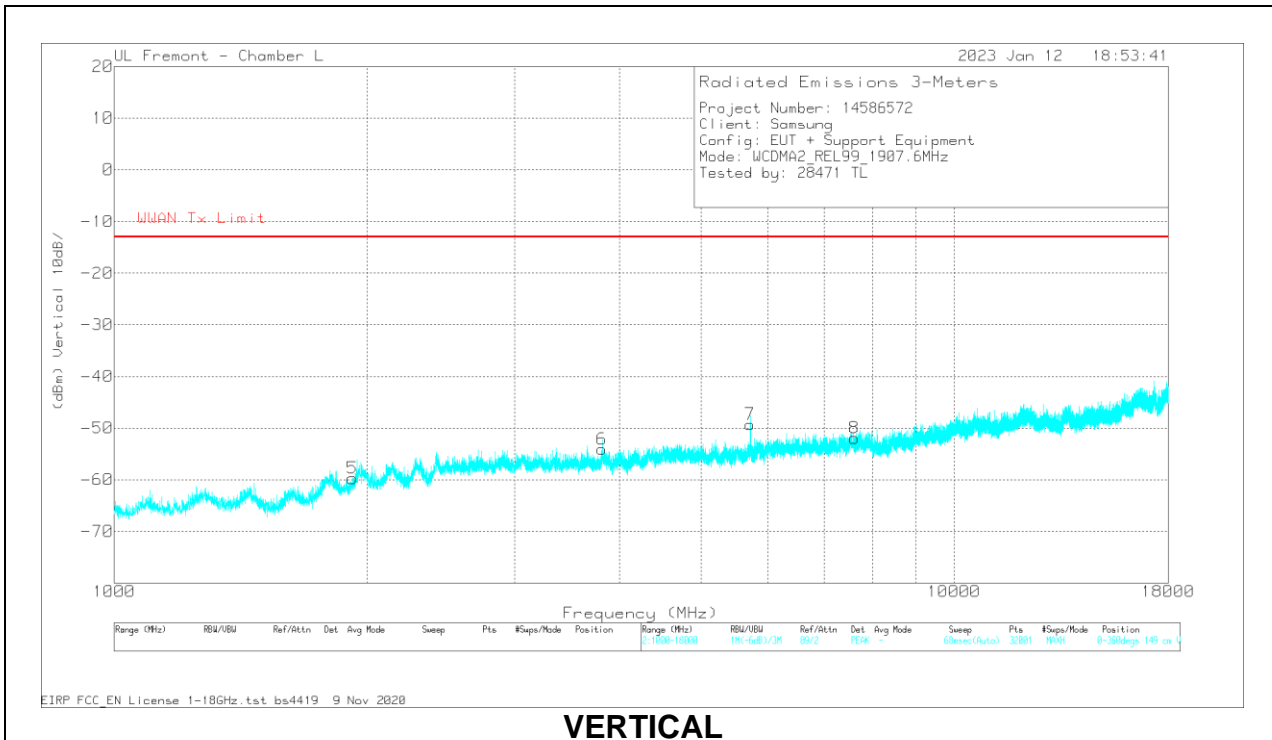


VERTICAL

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL