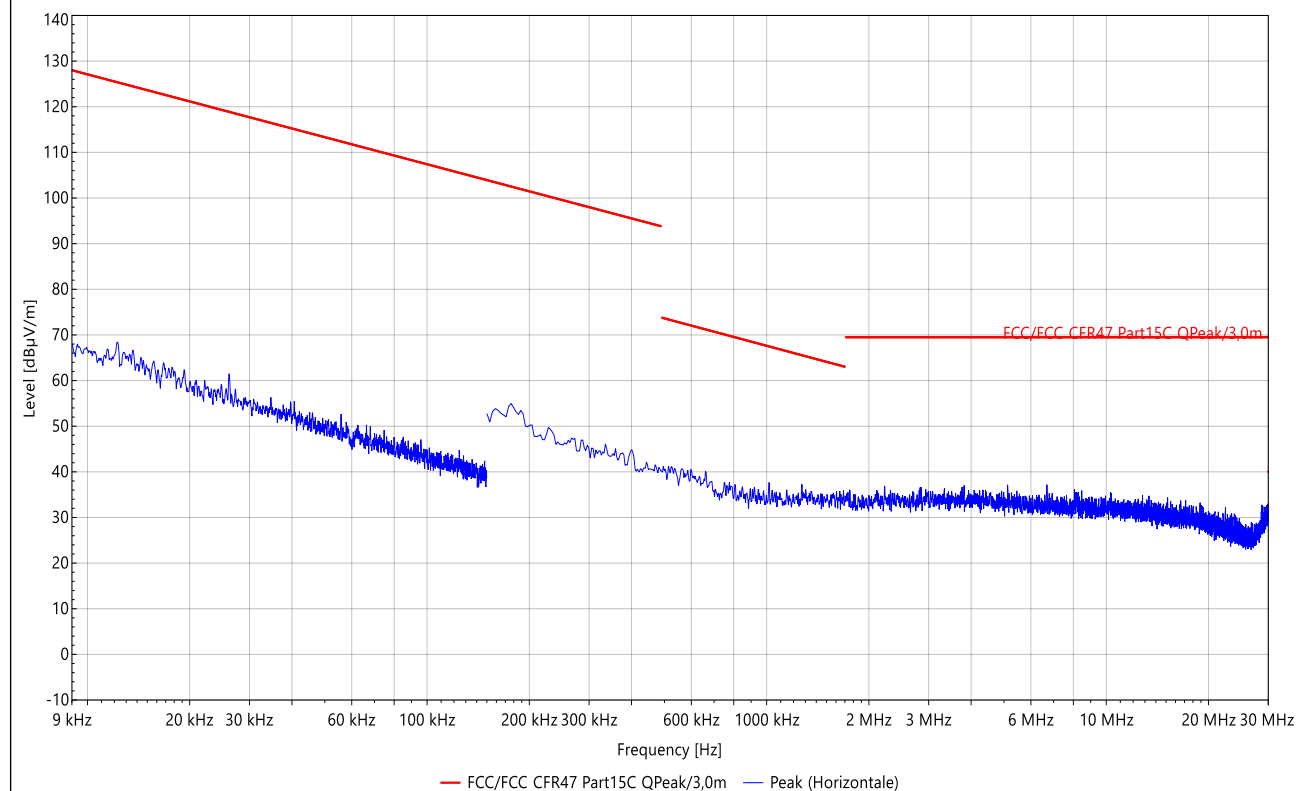


Radiated Emissions

Graph name: Emr#6
Frequency range: 9 kHz to 30 MHz

(180°) - TX mode - Axis 0° (Worst case presented) 24VDC VEGA 14x



Pre-Characterization:

Frequency

Final measurement:

No significant frequency observed

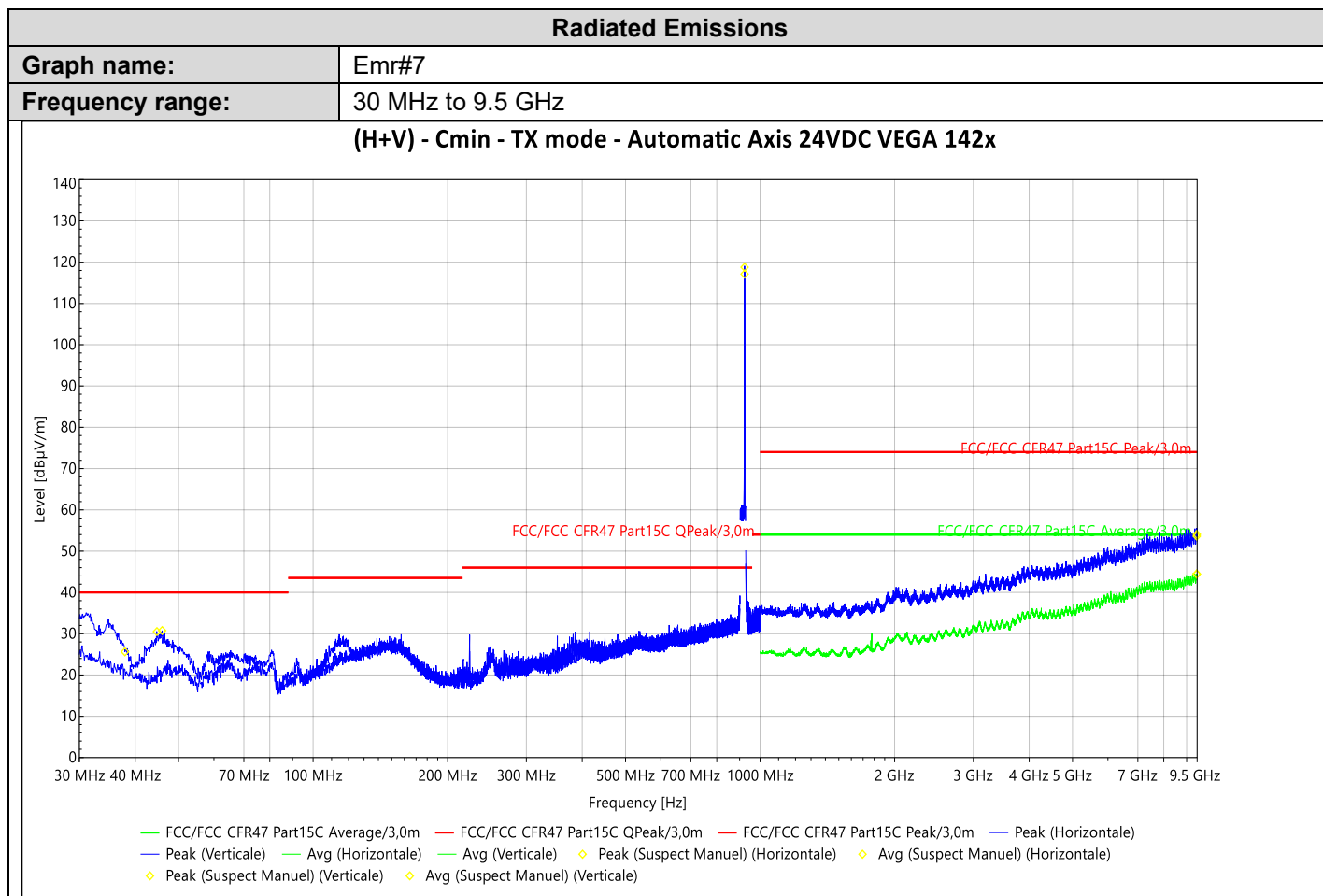
9.6.2. 30MHz to 9.5GHz

Graphs – Pre characterization:

Graph identifier	Polarization	Mode	Channel	EUT position	Comments
Emr# 7	H/V	TX	Cmin	Axis XY	Antenna 1: 24VDC
Emr# 8	H/V	TX	Cmid	Axis XY	Antenna 1: 24VDC
Emr# 9	H/V	TX	Cmax	Axis XY	Antenna 1: 24VDC
Emr# 10	H/V	TX	Cmin	Axis XY	Antenna 1: 240VAC
Emr# 11	H/V	TX	Cmid	Axis XY	Antenna 1: 240VAC
Emr# 12	H/V	TX	Cmax	Axis XY	Antenna 1: 240VAC

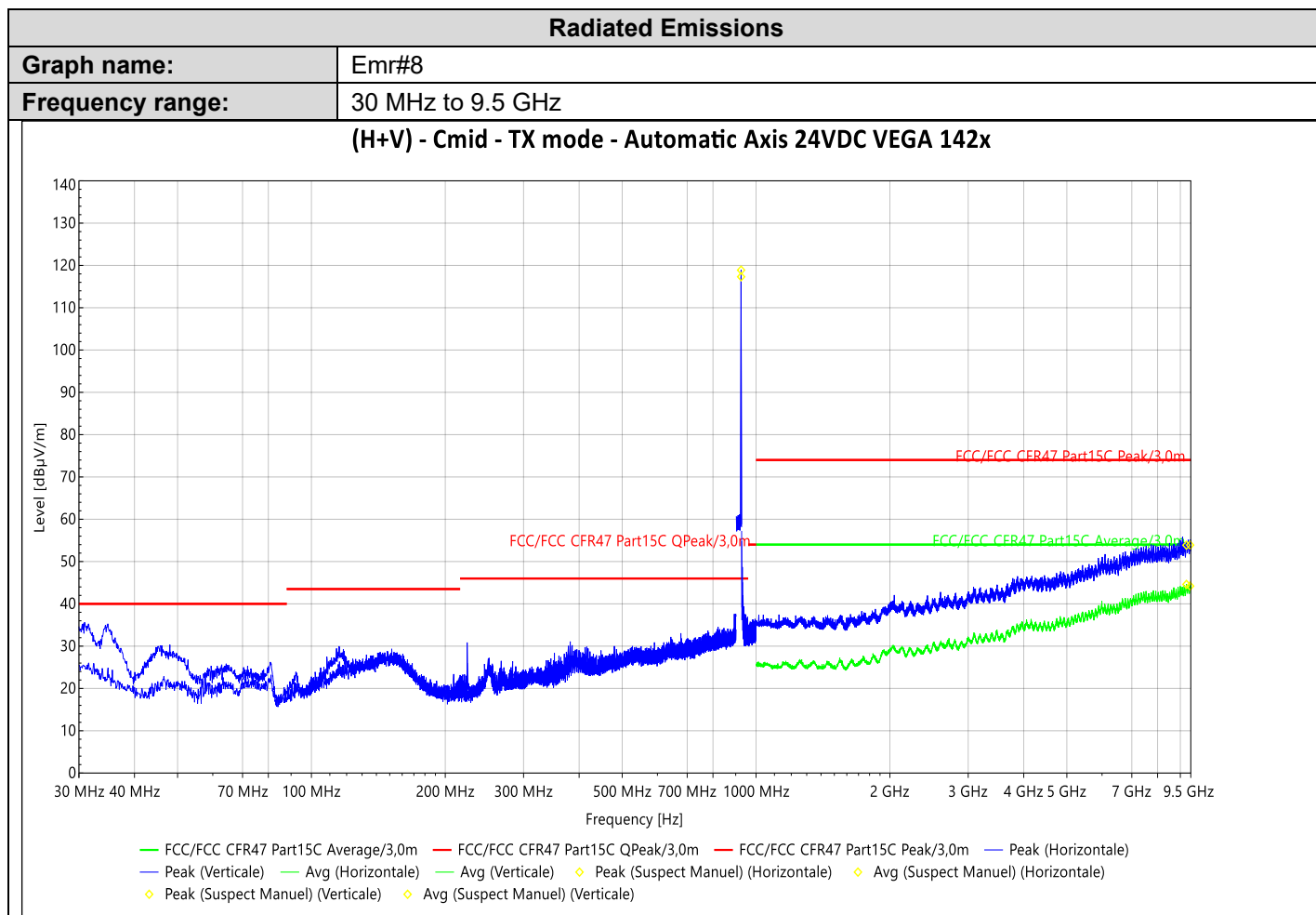
Graph identifier	Polarization	Mode	Channel	EUT position	Comments
Emr# 13	H/V	TX	Cmin	Axis XY	Antenna 2: 24VDC
Emr# 14	H/V	TX	Cmid	Axis XY	Antenna 2: 24VDC
Emr# 15	H/V	TX	Cmax	Axis XY	Antenna 2: 24VDC
Emr# 16	H/V	TX	Cmin	Axis XY	Antenna 2: 240VAC
Emr# 17	H/V	TX	Cmid	Axis XY	Antenna 2: 240VAC
Emr# 18	H/V	TX	Cmax	Axis XY	Antenna 2: 240VAC

Graph identifier	Polarization	Mode	Channel	EUT position	Comments
Emr# 19	H/V	TX	Cmin	Axis XY	Antenna 3: 24VDC
Emr# 20	H/V	TX	Cmid	Axis XY	Antenna 3: 24VDC
Emr# 21	H/V	TX	Cmax	Axis XY	Antenna 3: 24VDC
Emr# 22	H/V	TX	Cmin	Axis XY	Antenna 3: 240VAC
Emr# 23	H/V	TX	Cmid	Axis XY	Antenna 3: 240VAC
Emr# 24	H/V	TX	Cmax	Axis XY	Antenna 3: 240VAC



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Avg (dBµV/m)	Lim.Avg (dBµV/m)	Lim.QP (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
923.242 MHz	117.14	/	/	/	/	105	H	30.09
9.480 GHz	53.61	74.00	44.46	54.00	/	287	H	-4.88
9.485 GHz	54.07	74.00	44.45	54.00	/	100	V	-4.88
923.320 MHz	118.78	/	/	/	/	335	V	30.09
37.935 MHz	25.61	/	/	/	40.00	338	V	20.00
44.737 MHz	30.51	/	/	/	40.00	40	V	16.43
45.958 MHz	30.76	/	/	/	40.00	29	V	15.85



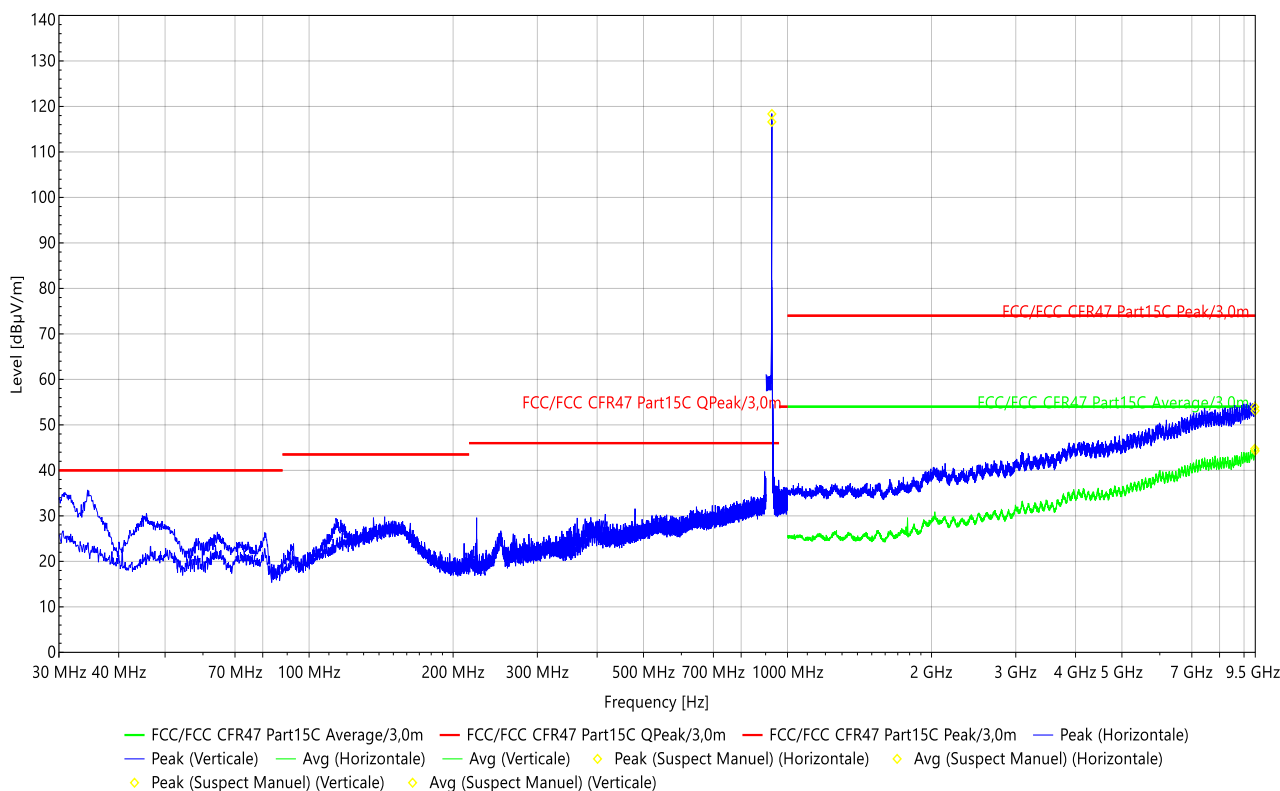
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Avg (dBµV/m)	Lim.Avg (dBµV/m)	Lim.QP (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
925.504 MHz	117.32	/	/	/	/	110	H	30.09
9.468 GHz	53.90	74.00	44.20	54.00	/	47	H	-4.89
9.288 GHz	53.86	74.00	44.60	54.00	/	0	V	-5.28
925.452 MHz	118.89	/	/	/	/	346	V	30.09

Radiated Emissions

Graph name: Emr#9
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmax - TX mode - Automatic Axis 24VDC VEGA 142x



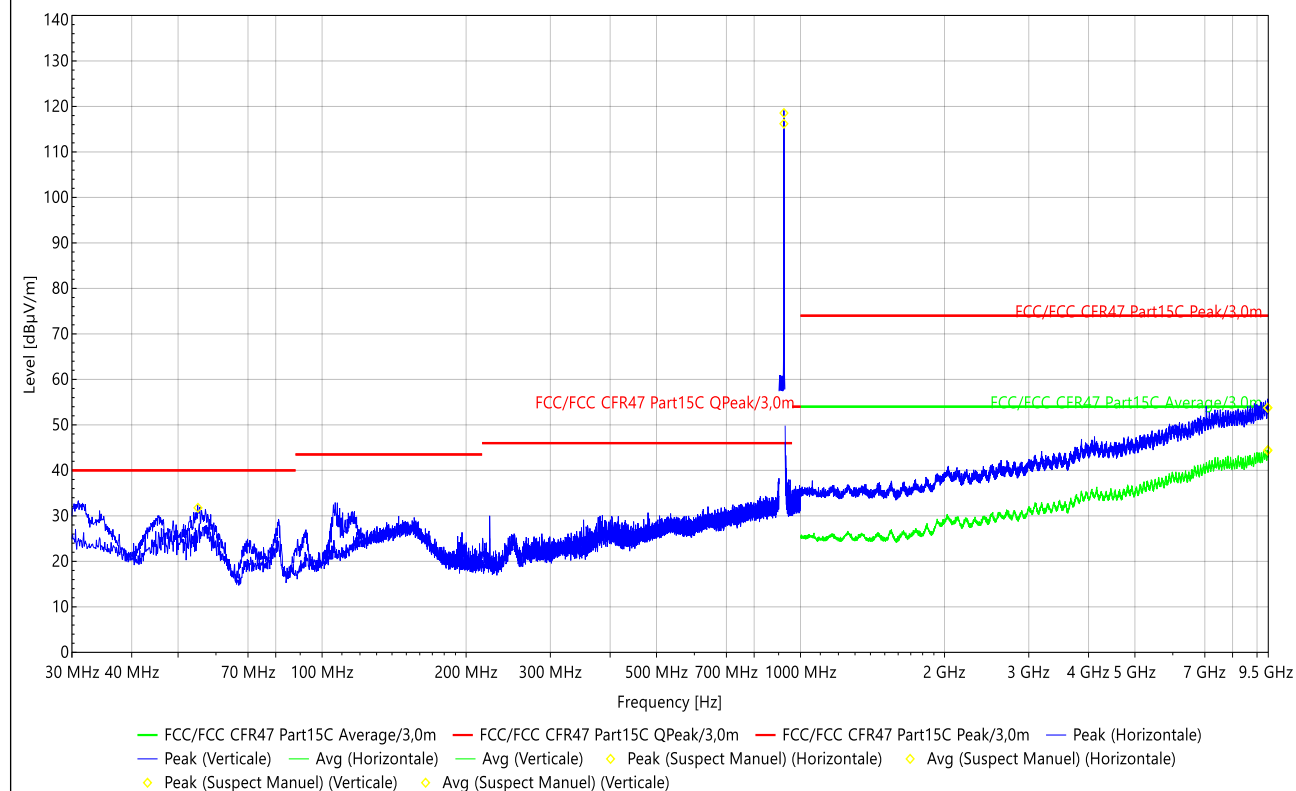
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
927.480 MHz	116.60	/	/	/	/	295	H	30.06
9.493 GHz	53.12	74.00	44.29	54.00	/	163	H	-4.87
9.477 GHz	53.94	74.00	44.74	54.00	/	215	V	-4.88
927.454 MHz	118.35	/	/	/	/	351	V	30.06

Radiated Emissions

Graph name: Emr#10
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmin - TX mode - Automatic Axis 240V AC VEGA 142x



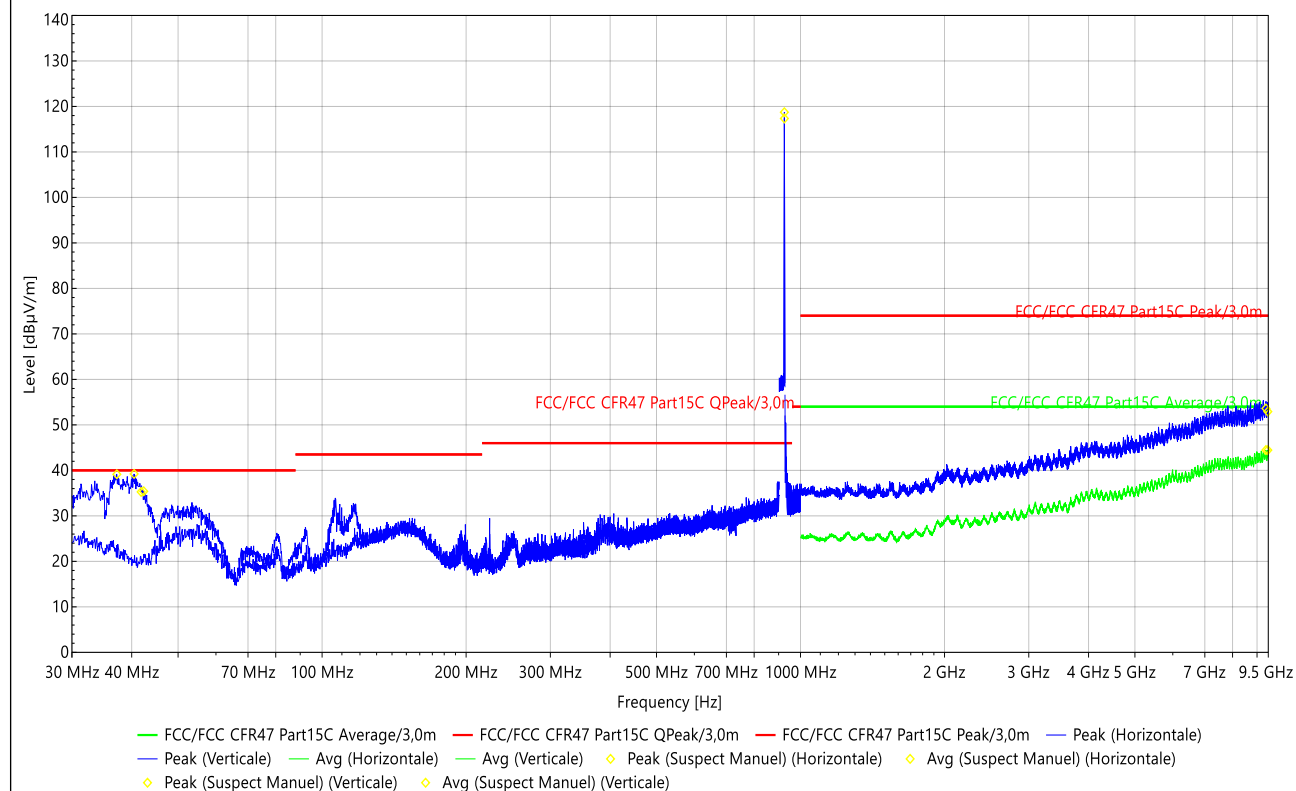
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
923.034 MHz	116.20	/	/	/	/	286	H	30.10
9.481 GHz	53.75	74.00	44.46	54.00		75	H	-4.88
9.473 GHz	53.78	74.00	44.34	54.00		13	V	-4.89
923.398 MHz	118.55	/	/	/	/	0	V	30.09
55.026 MHz	31.77	/	/	/	40.00	142	V	12.78

Radiated Emissions

Graph name: Emr#11
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmid - TX mode - Automatic Axis 240V AC VEGA 142x



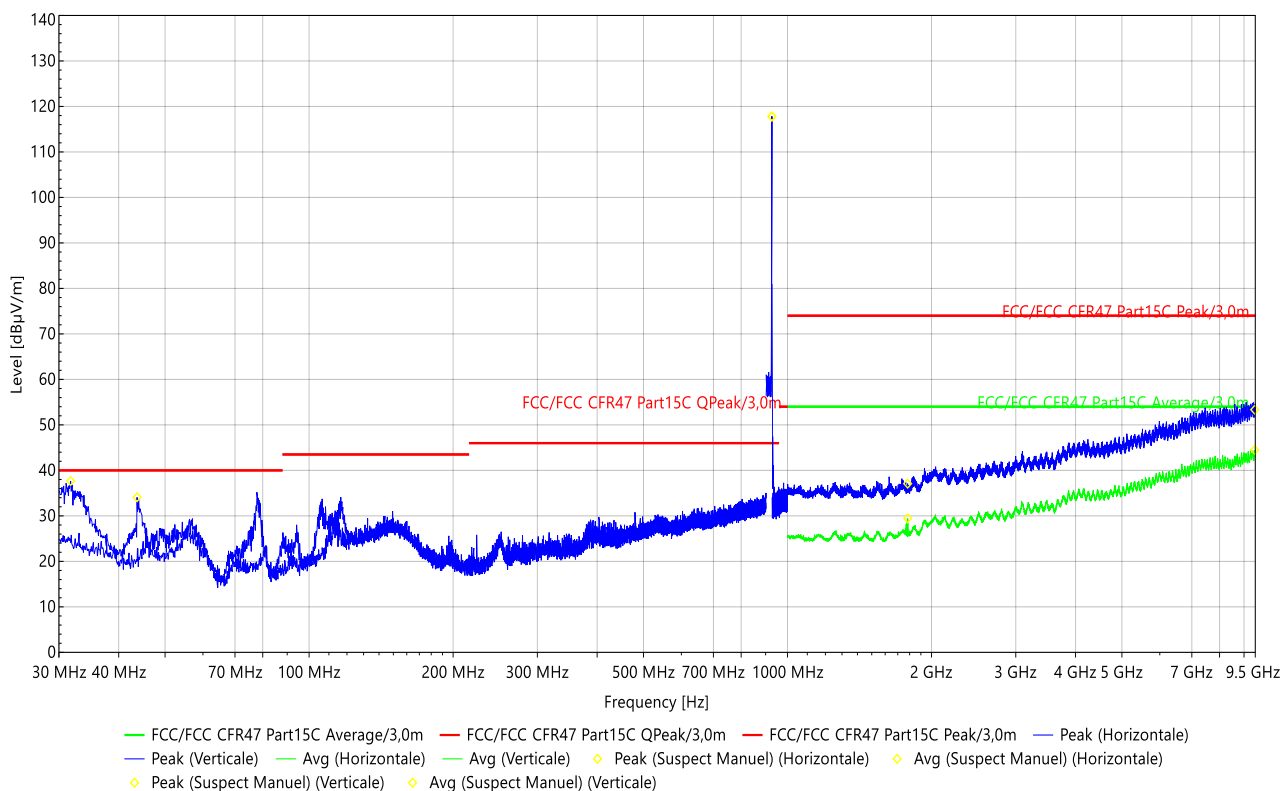
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
925.296 MHz	117.35	/	/	/	/	103	H	30.09
9.392 GHz	53.61	74.00	44.47	54.00	/	234	H	-5.03
9.479 GHz	52.92	74.00	44.45	54.00	/	0	V	-4.88
925.166 MHz	118.73	/	/	/	/	346	V	30.09
38.238 MHz	39.14	/	/	/	40.00	0	V	20.35
40.464 MHz	39.22	/	/	/	40.00	0	V	18.52
41.859 MHz	35.27	/	/	/	40.00	0	V	17.82
42.382 MHz	35.40	/	/	/	40.00	0	V	17.57

Radiated Emissions

Graph name: Emr#12
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmax - TX mode - Automatic Axis 240V AC VEGA 142x



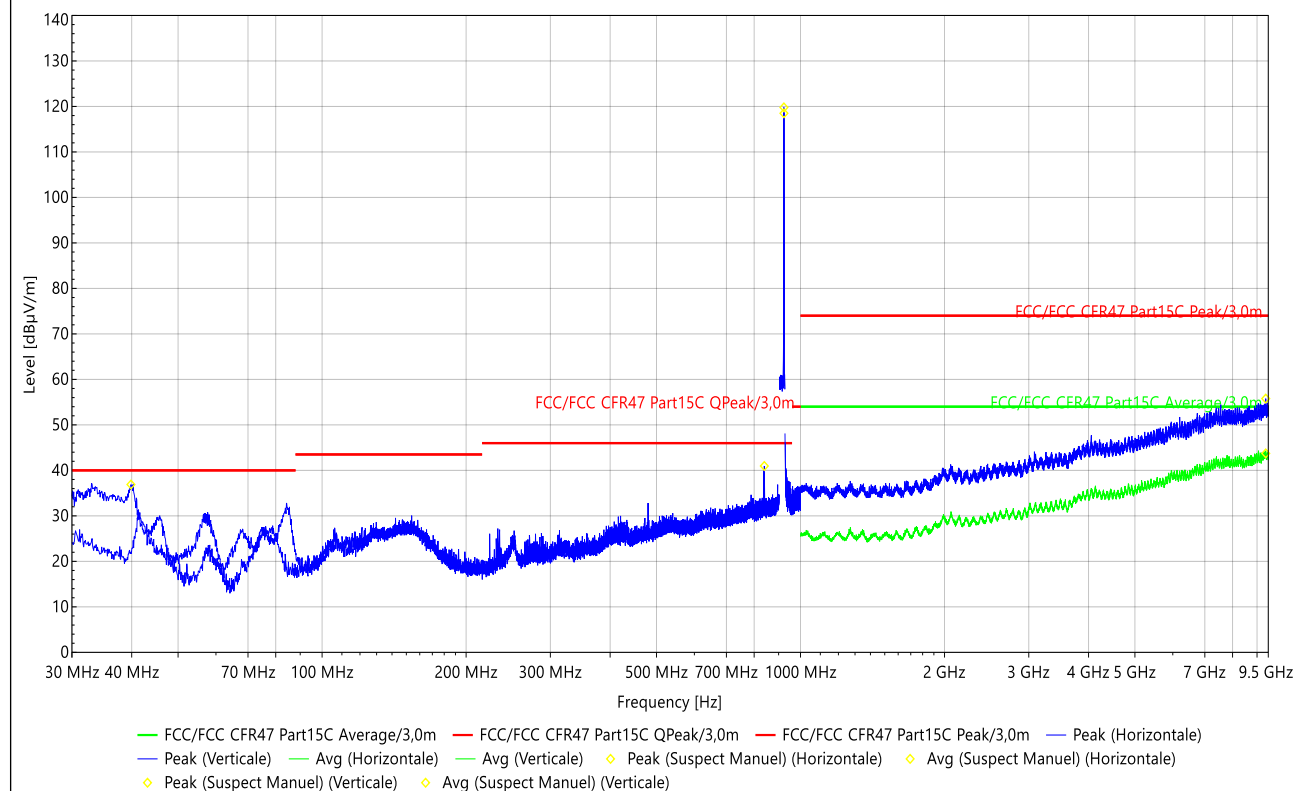
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
927.480 MHz	117.80	/	/	/	/	85	H	30.06
1.783 GHz	37.09	74.00	29.46	54.00	/	118	V	-25.04
9.474 GHz	53.34	74.00	44.49	54.00	/	243	V	-4.89
927.454 MHz	117.78	/	/	/	/	112	V	30.06
31.744 MHz	37.67	/	/	/	40.00	223	V	23.29
43.690 MHz	34.09	/	/	/	40.00	0	V	16.93

Radiated Emissions

Graph name: Emr#13
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmin - TX mode - Automatic Axis 24VDC VEGA 14X



Pre-Characterization:

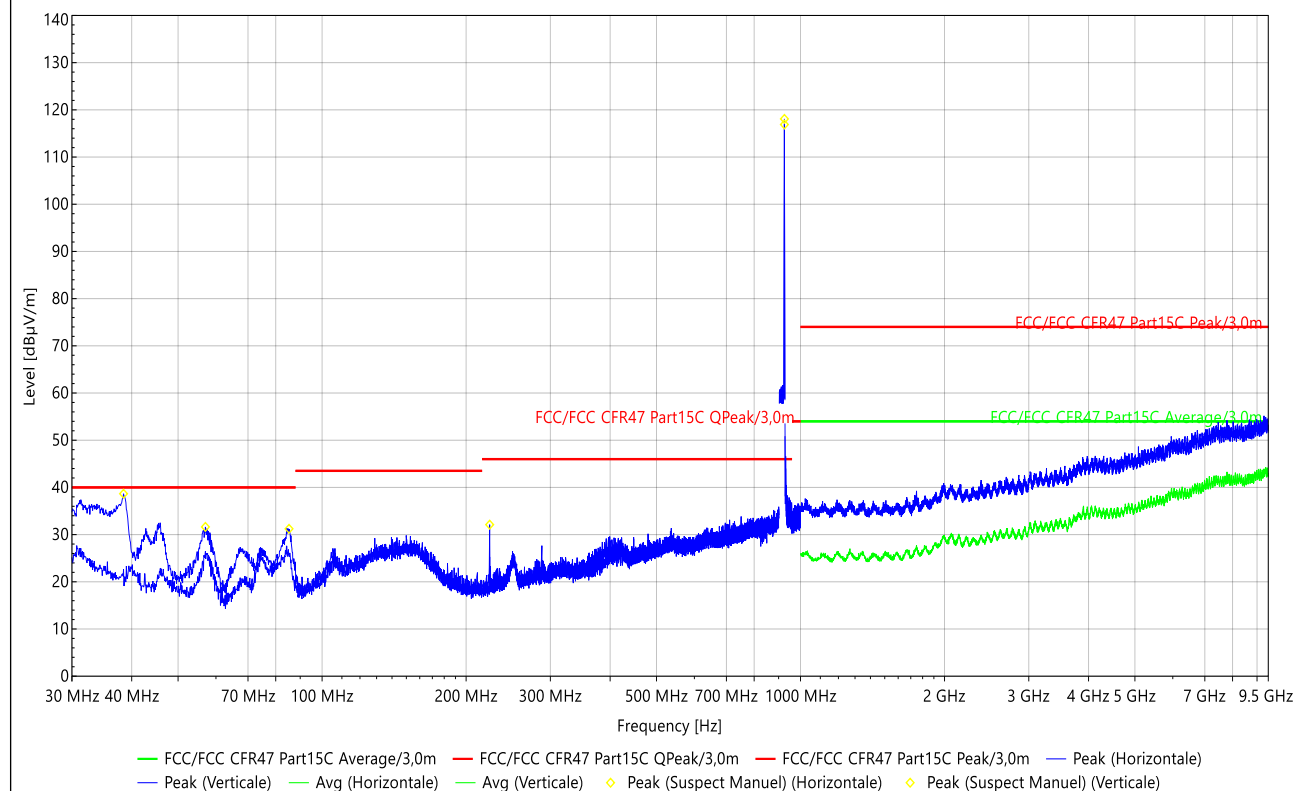
Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
923.216 MHz	119.79	/	/	/	46.00	145	H	30.36
9.385 GHz	55.78	74.00	43.73	54.00		171	V	-4.91
923.346 MHz	118.50	/	/	/	46.00	343	V	30.36
39.854 MHz	36.89	/	/	/	40.00	254	V	18.89
840.088 MHz	40.96	/	/	/	46.00	195	V	29.86



Radiated Emissions

Graph name: Emr#14
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmid - TX mode - Automatic Axis 24VDC VEGA 14X



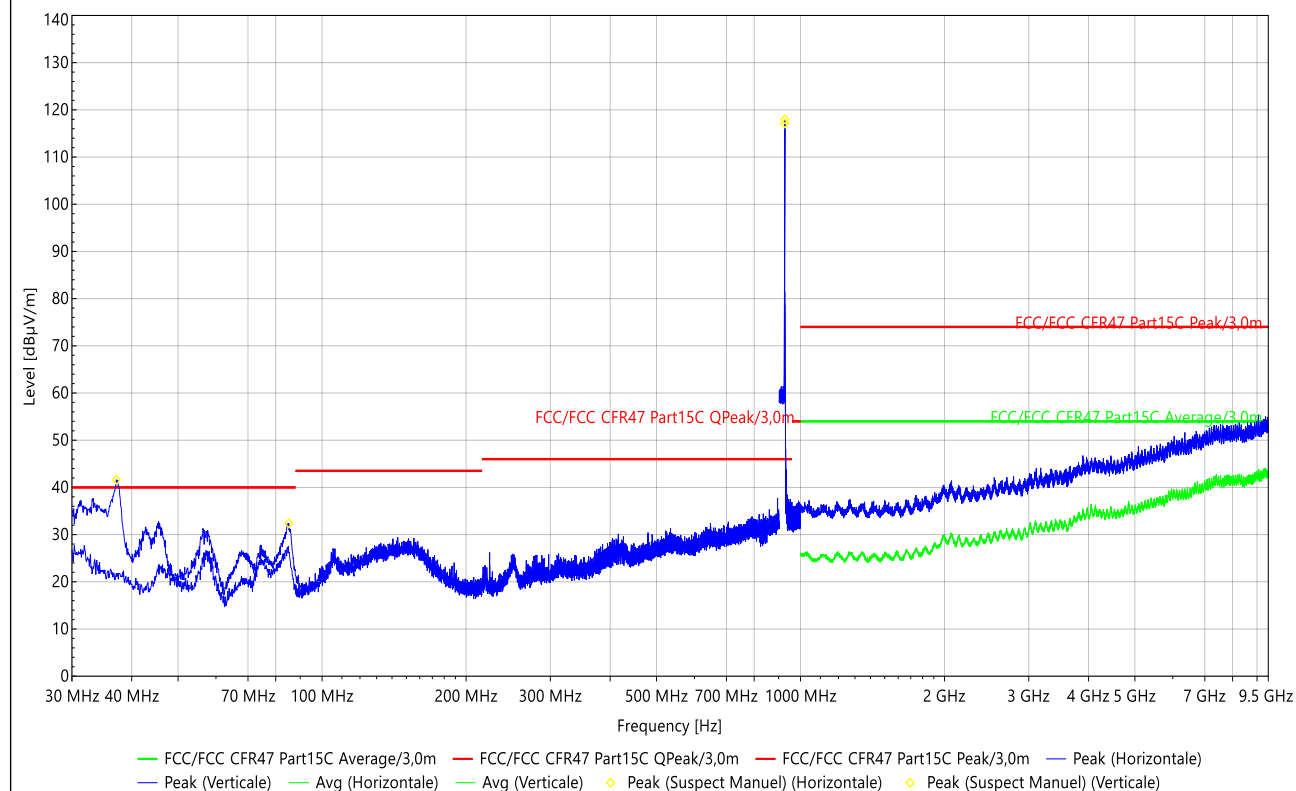
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
925.452 MHz	118.08	/	/	46.00	149	H	30.36
925.400 MHz	116.89	/	/	46.00	331	V	30.36
37.158 MHz	38.66	/	/	40.00	25	V	19.76
57.032 MHz	31.63	/	/	40.00	148	V	12.46
85.285 MHz	31.23	/	/	40.00	143	V	16.14
224.020 MHz	32.11	/	/	46.00	138	V	16.94

Radiated Emissions

Graph name: Emr#15
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmax - TX mode - Automatic Axis 24VDC VEGA 14X



Pre-Characterization:

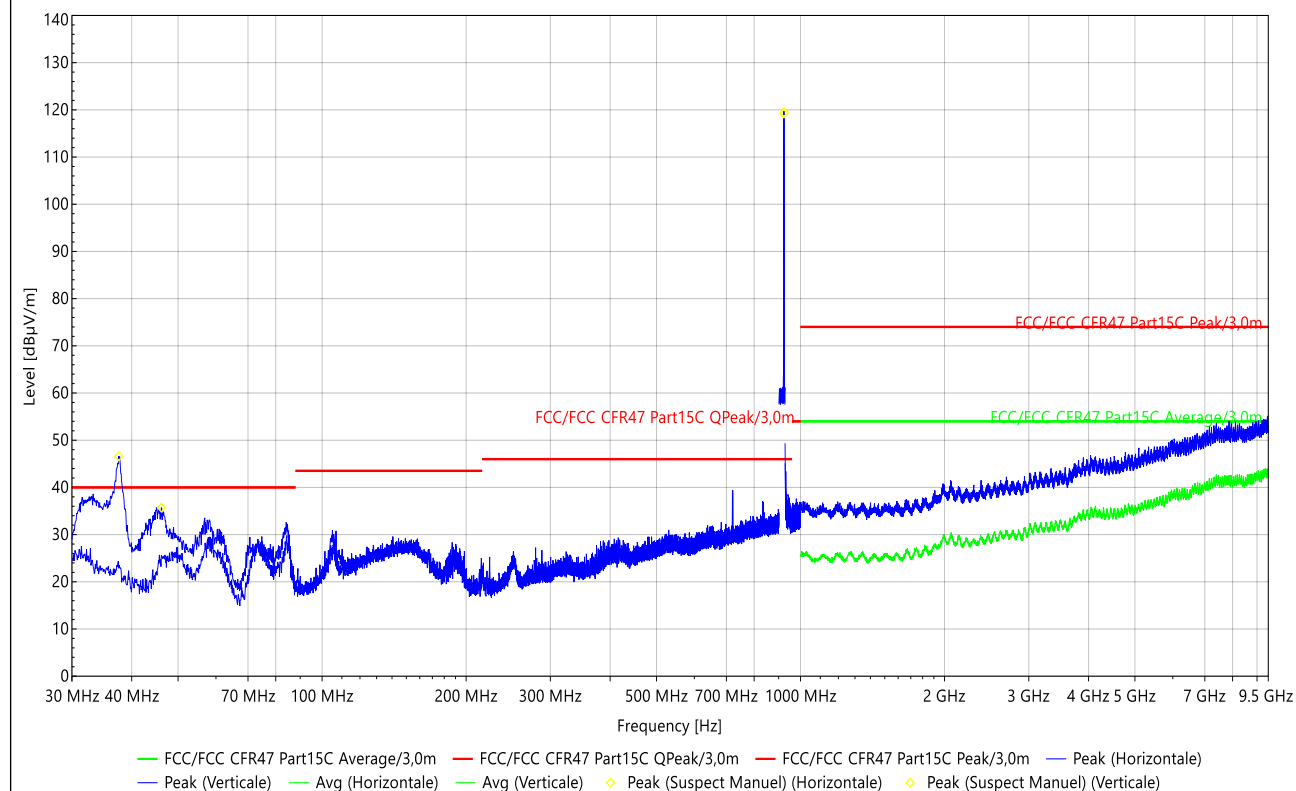
Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
927.402 MHz	118.00	/	/	46.00	152	H	30.33
927.324 MHz	117.12	/	/	46.00	340	V	30.33
38.150 MHz	41.61	/	/	40.00	0	V	20.42
85.198 MHz	32.40	/	/	40.00	130	V	16.12



Radiated Emissions

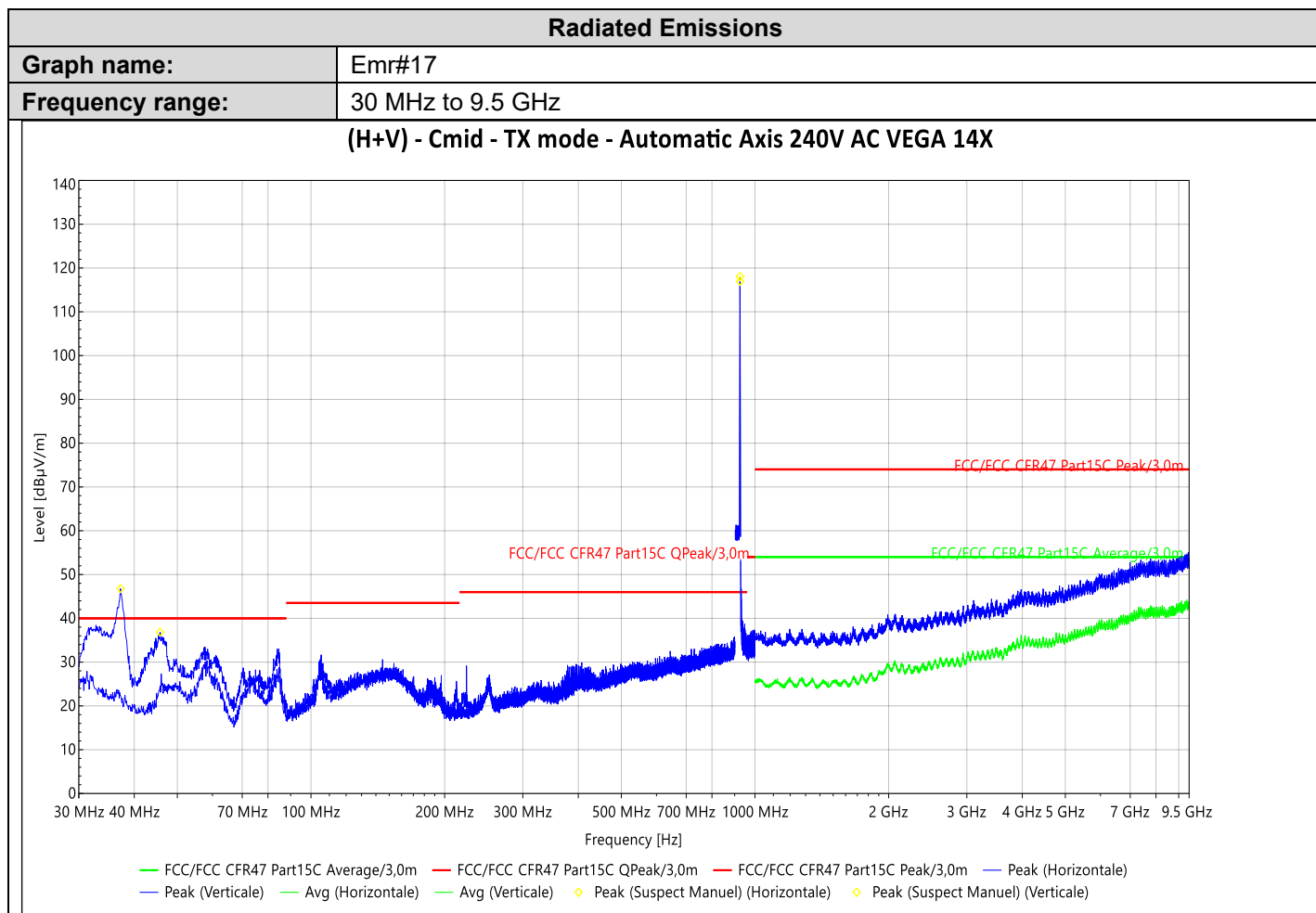
Graph name: Emr#16
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmin - TX mode - Automatic Axis 240V AC VEGA 14X



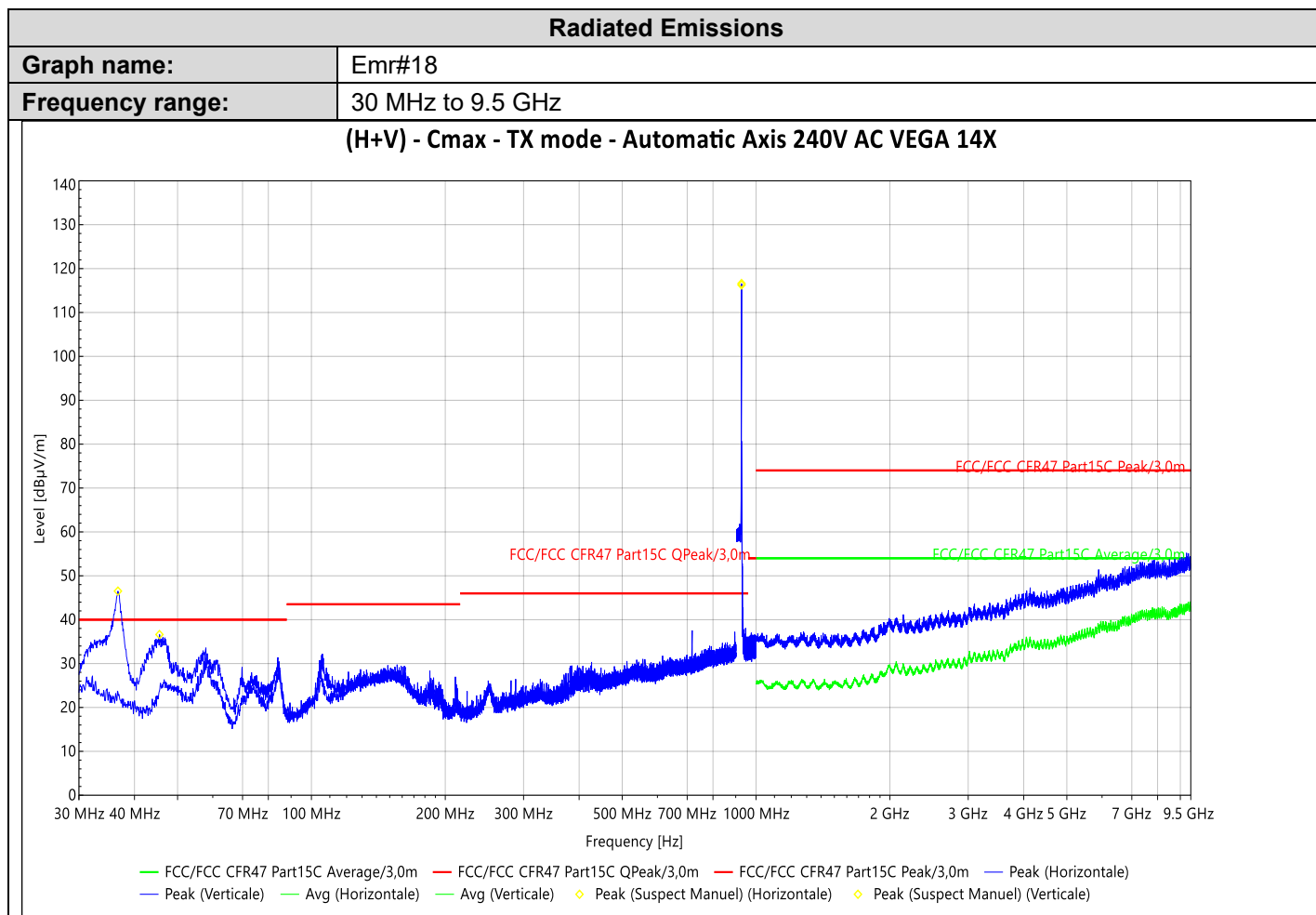
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
923.372 MHz	119.48	/	/	46.00	152	H	30.36
923.294 MHz	119.25	/	/	46.00	347	V	30.36
38.186 MHz	45.60	/	/	40.00	223	V	20.21
46.132 MHz	35.72	/	/	40.00	0	V	15.79



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Lim.QP (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
925.426 MHz	118.03	/	/	46.00	153	H	30.36
925.478 MHz	116.95	/	/	46.00	261	V	30.36
38.138 MHz	45.59	/	/	40.00	0	V	20.40
45.696 MHz	36.83	/	/	40.00	26	V	15.99



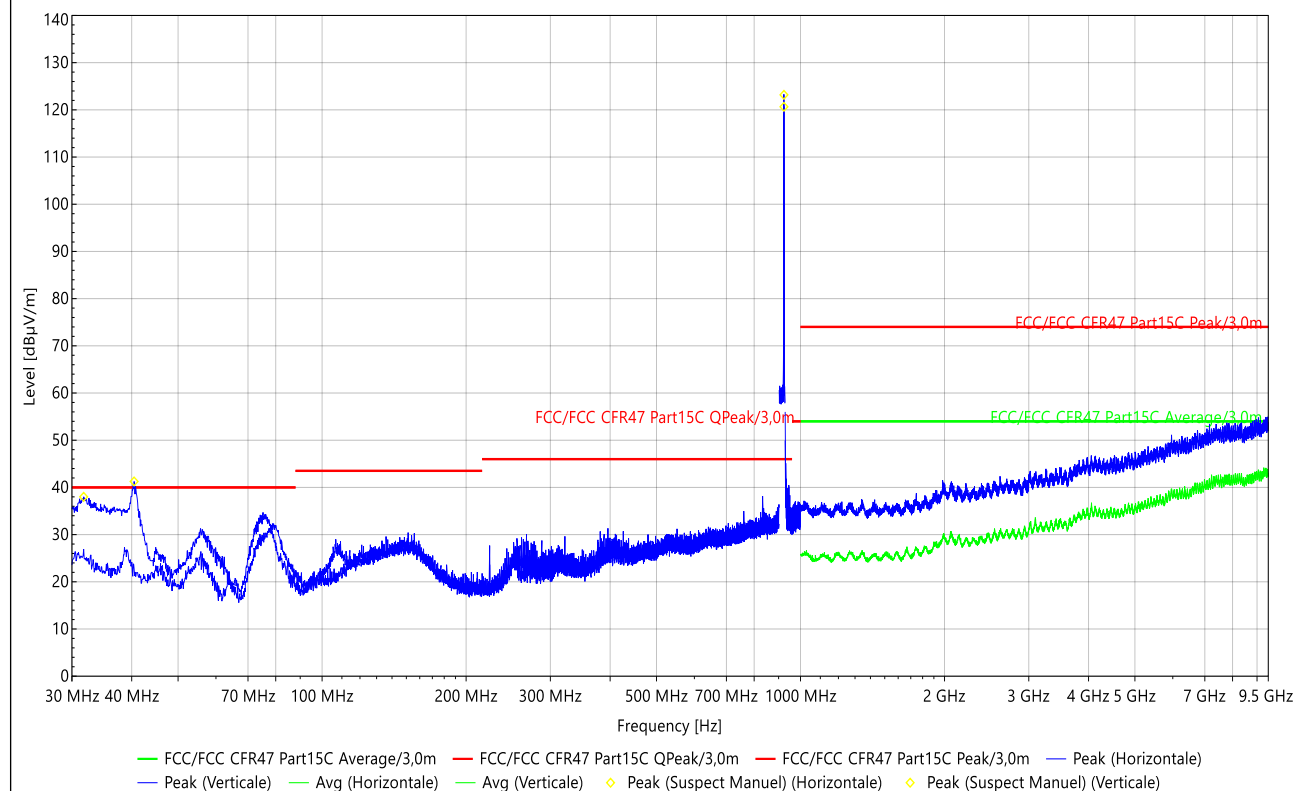
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Lim.QP (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
927.558 MHz	116.27	/	/	46.00	283	H	30.32
927.506 MHz	116.60	/	/	46.00	348	V	30.32
38.514 MHz	45.11	/	/	40.00	15	V	20.66
45.522 MHz	36.60	/	/	40.00	5	V	16.07

Radiated Emissions

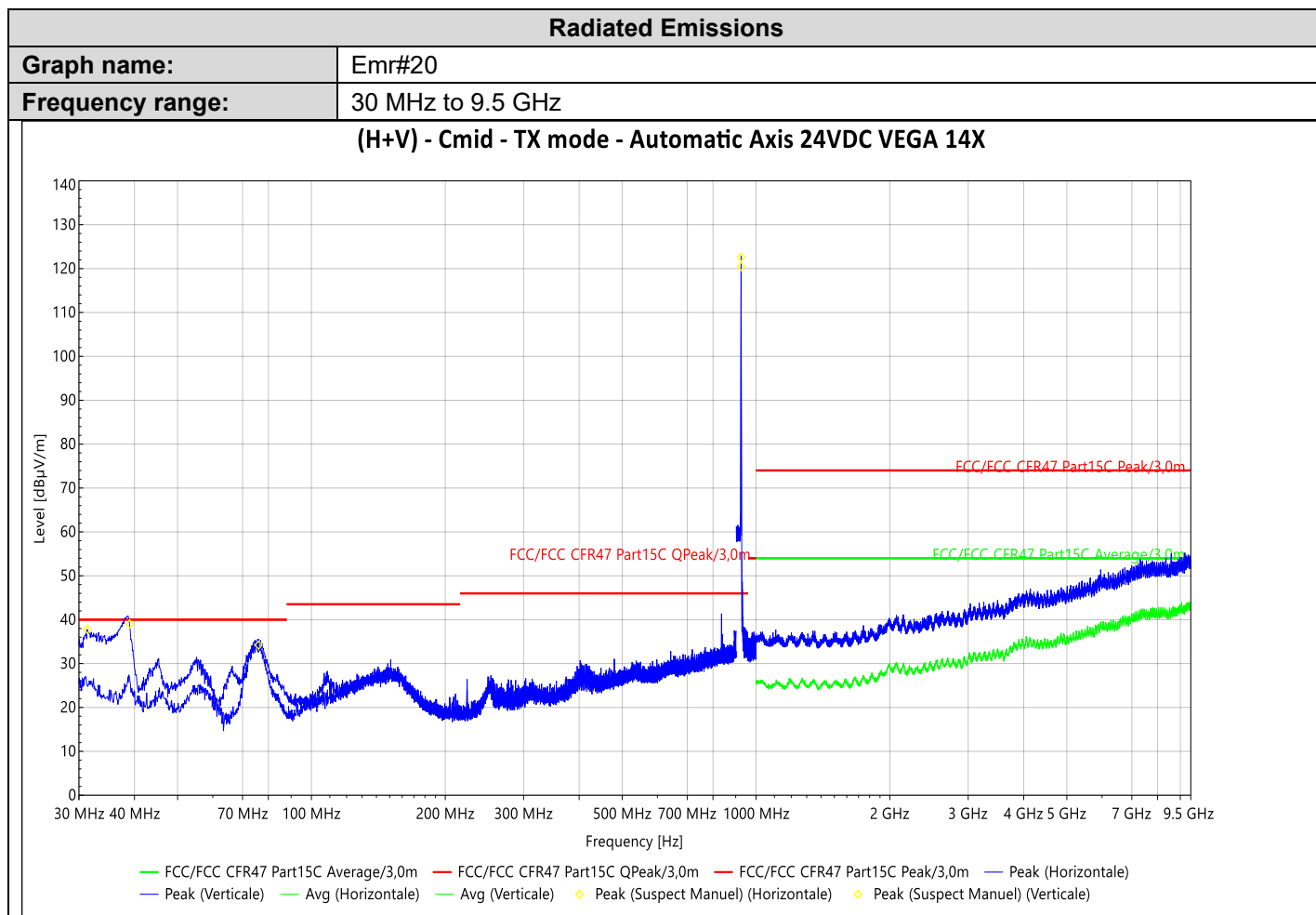
Graph name: Emr#19
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmin - TX mode - Automatic Axis 24VDC VEGA 14X



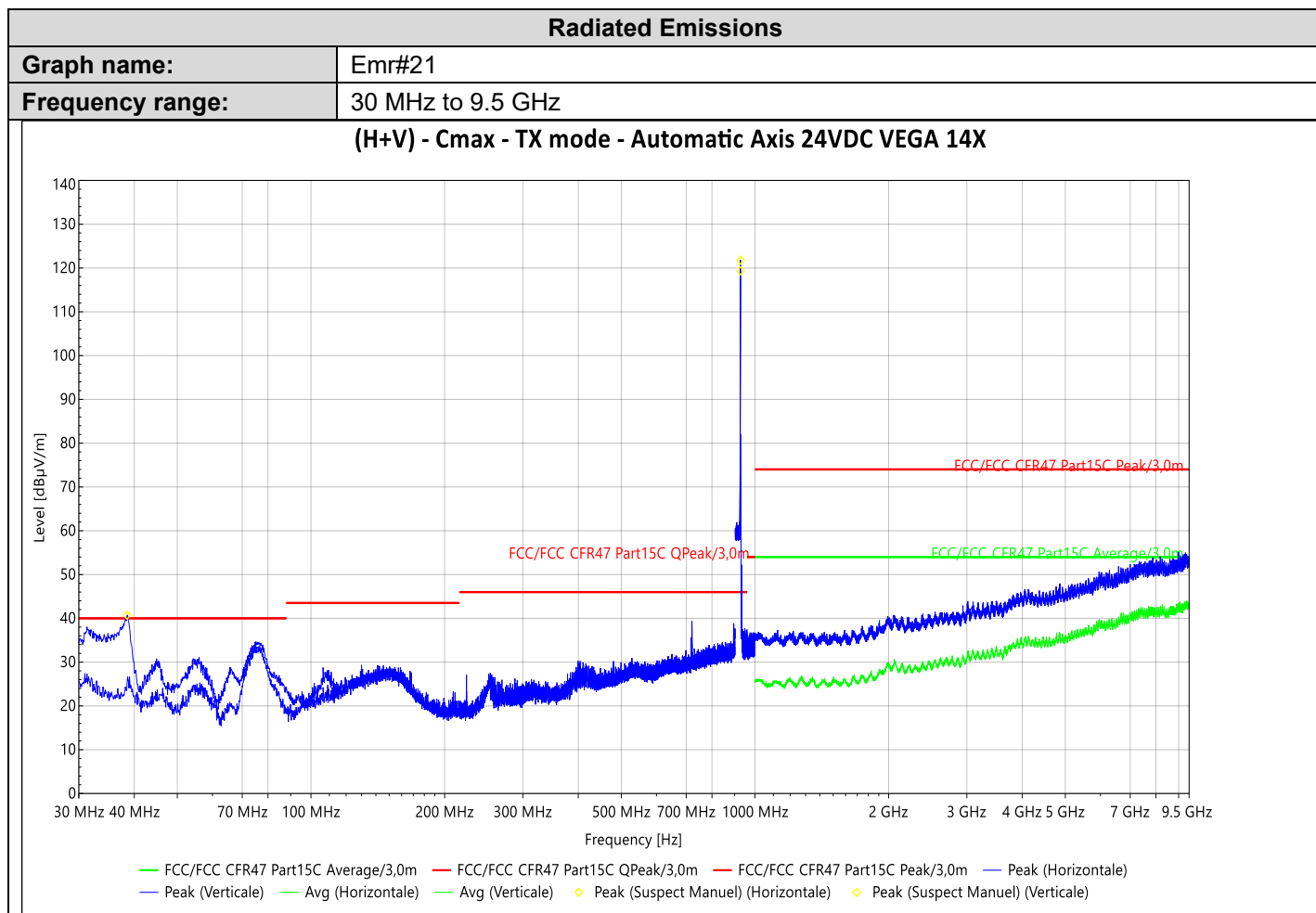
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
923.294 MHz	120.65	/	/	46.00	147	H	30.36
923.398 MHz	123.18	/	/	46.00	151	V	30.36
31.444 MHz	38.01	/	/	40.00	183	V	23.30
40.464 MHz	41.26	/	/	40.00	284	V	18.54



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Lim.QP (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
76.042 MHz	34.20	/	/	40.00	159	H	14.24
925.452 MHz	120.49	/	/	46.00	143	H	30.36
925.348 MHz	122.60	/	/	46.00	157	V	30.36
31.308 MHz	37.82	/	/	40.00	224	V	23.54
38.482 MHz	39.04	/	/	40.00	228	V	19.44



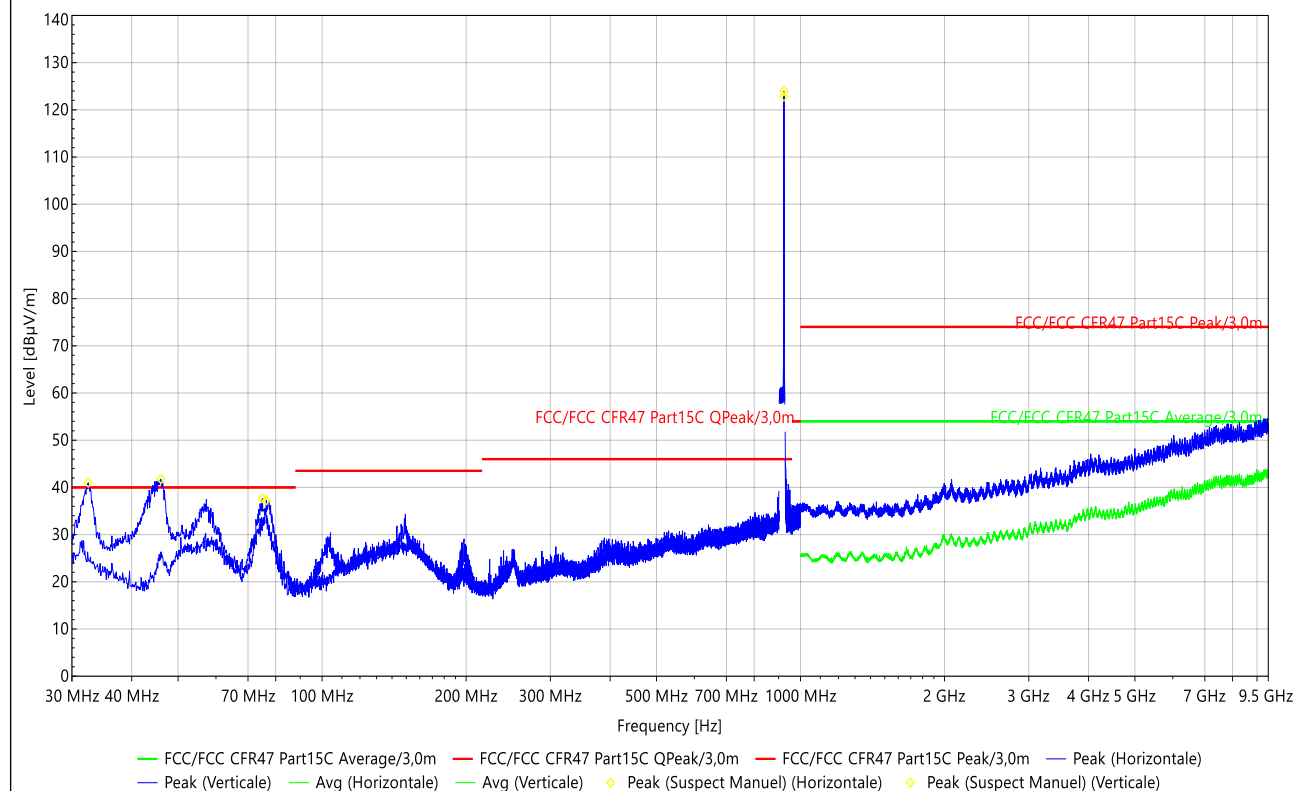
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Lim.QP (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
927.558 MHz	119.37	/	/	46.00	141	H	30.32
927.584 MHz	121.78	/	/	46.00	173	V	30.32
38.146 MHz	40.73	/	/	40.00	233	V	19.72

Radiated Emissions

Graph name: Emr#22
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmin - TX mode - Automatic Axis 240V AC VEGA 14X



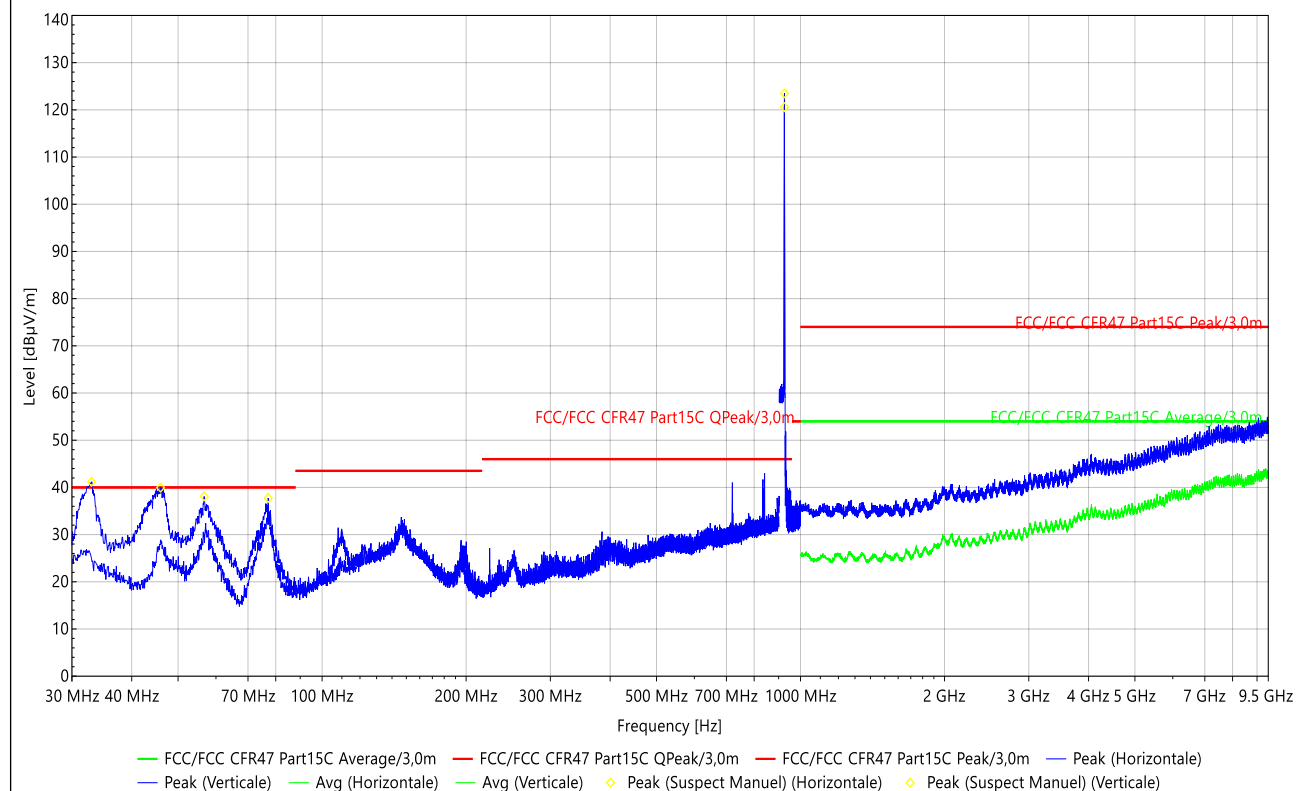
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
74.995 MHz	37.69	/	/	40.00	133	H	13.94
923.372 MHz	122.80	/	/	46.00	126	H	30.36
923.320 MHz	123.97	/	/	46.00	219	V	30.36
32.442 MHz	41.01	/	/	40.00	6	V	22.94
45.235 MHz	41.74	/	/	40.00	0	V	15.83
76.478 MHz	37.24	/	/	40.00	111	V	14.31

Radiated Emissions

Graph name: Emr#23
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmid - TX mode - Automatic Axis 240V AC VEGA 14X



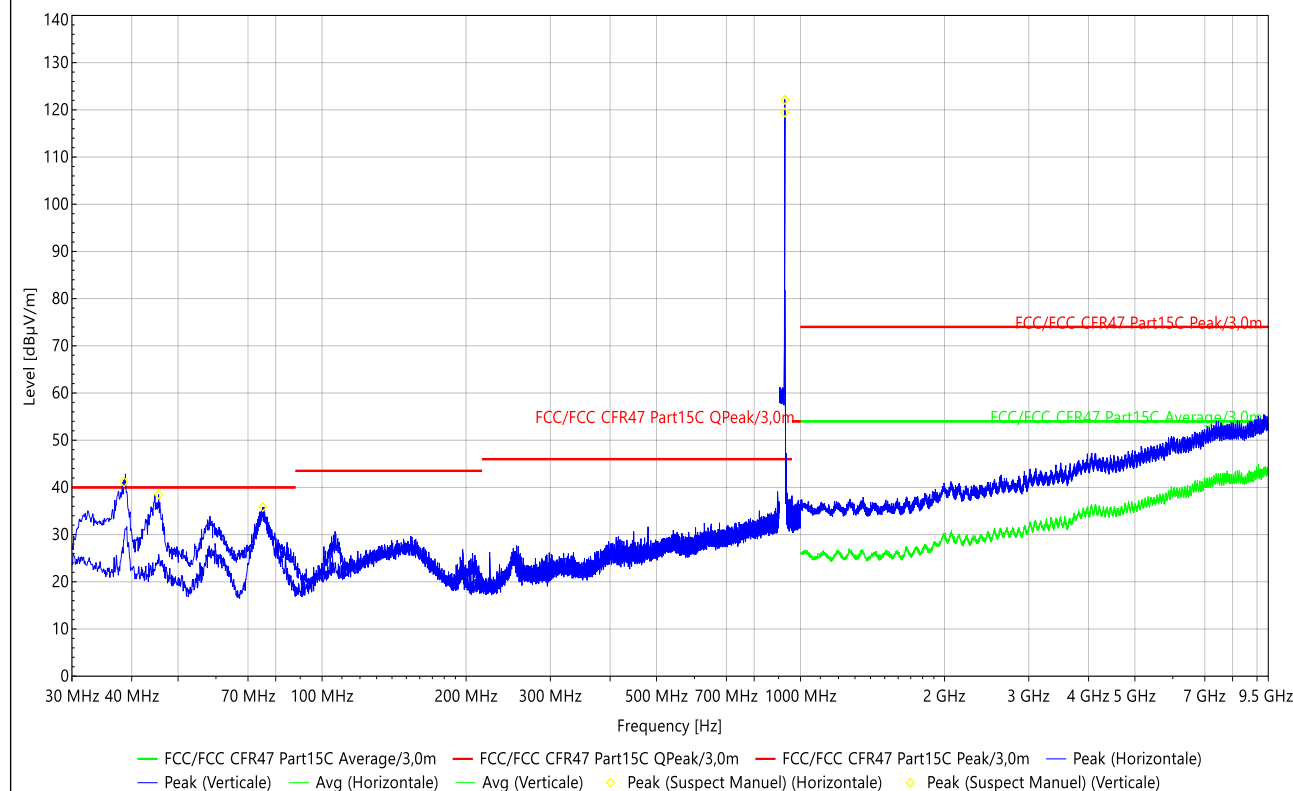
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
925.374 MHz	120.57	/	/	46.00	138	H	30.36
925.530 MHz	123.49	/	/	46.00	220	V	30.36
32.451 MHz	41.18	/	/	40.00	249	V	22.66
45.230 MHz	39.95	/	/	40.00	67	V	15.86
56.683 MHz	38.09	/	/	40.00	0	V	12.53
77.175 MHz	37.75	/	/	40.00	121	V	14.45

Radiated Emissions

Graph name: Emr#24
Frequency range: 30 MHz to 9.5 GHz

(H+V) - Cmax - TX mode - Automatic Axis 240V AC VEGA 14X



Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Lim.QP (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
927.584 MHz	119.43			46.00	137	H	30.32
927.584 MHz	122.13			46.00	154	V	30.32
38.146 MHz	41.16			40.00	242	V	19.72
45.232 MHz	38.51			40.00	228	V	16.07
75.170 MHz	35.87			40.00	112	V	13.99



Final measurement: (worst case presented)

Test Frequency (MHz)	Meter Reading dB(μV)	Detector (Pk/QP/Av)	Polarity (V/H)	Azimuth (Degrees)	Antenna Height (cm)	Transducer Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
32.4400	18.6	QP	V	0	180	14.7	33.8	40.0	-6.2
38.1000	19.6	QP	V	0	180	14.7	33.3	40.0	-6.7
40.5000	19.7	QP	V	30	160	14.5	34.2	40.0	-5.8
41.8000	17.5	QP	V	0	145	14.4	31.9	40.0	-8.1
42.0200	16.5	QP	V	60	155	14.3	30.8	40.0	-9.2
42.2000	19.7	QP	V	330	140	14.3	34.0	40.0	-6.0
43.1000	17.1	QP	V	350	170	14.2	31.3	40.0	-8.7
44.1600	19.5	QP	V	0	150	14.0	33.5	40.0	-6.5
44.2000	19.5	QP	V	0	150	14.0	33.5	40.0	-6.5
44.5500	21.7	QP	V	0	145	13.9	35.6	40.0	-4.4
45.2300	22.6	QP	V	30	140	13.8	36.4	40.0	-3.6
47.1700	22.2	QP	V	20	155	13.4	35.6	40.0	-4.4
48.5200	18.5	QP	V	30	160	13.1	31.6	40.0	-8.4

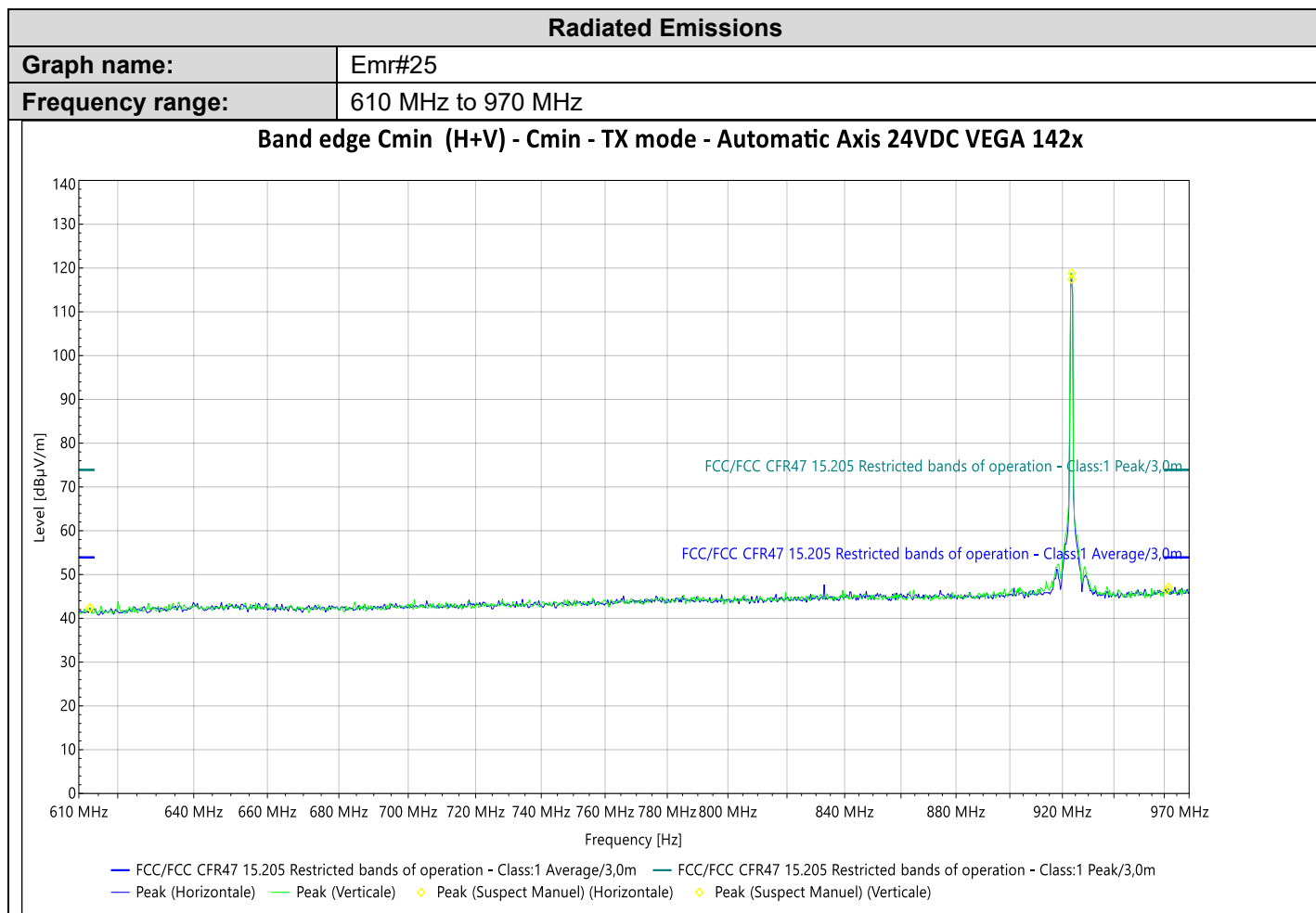


9.6.1. At the band edge

Graph identifier		Polarization	Mode	Channel	EUT position	Comments
Emr#	25	H/V	TX	Cmin	Axis XY	Antenna 1: 24VDC
Emr#	26	H/V	TX	Cmid	Axis XY	Antenna 1: 24VDC
Emr#	27	H/V	TX	Cmax	Axis XY	Antenna 1: 24VDC
Emr#	28	H/V	TX	Cmin	Axis XY	Antenna 1: 240VAC
Emr#	29	H/V	TX	Cmid	Axis XY	Antenna 1: 240VAC
Emr#	30	H/V	TX	Cmax	Axis XY	Antenna 1: 240VAC

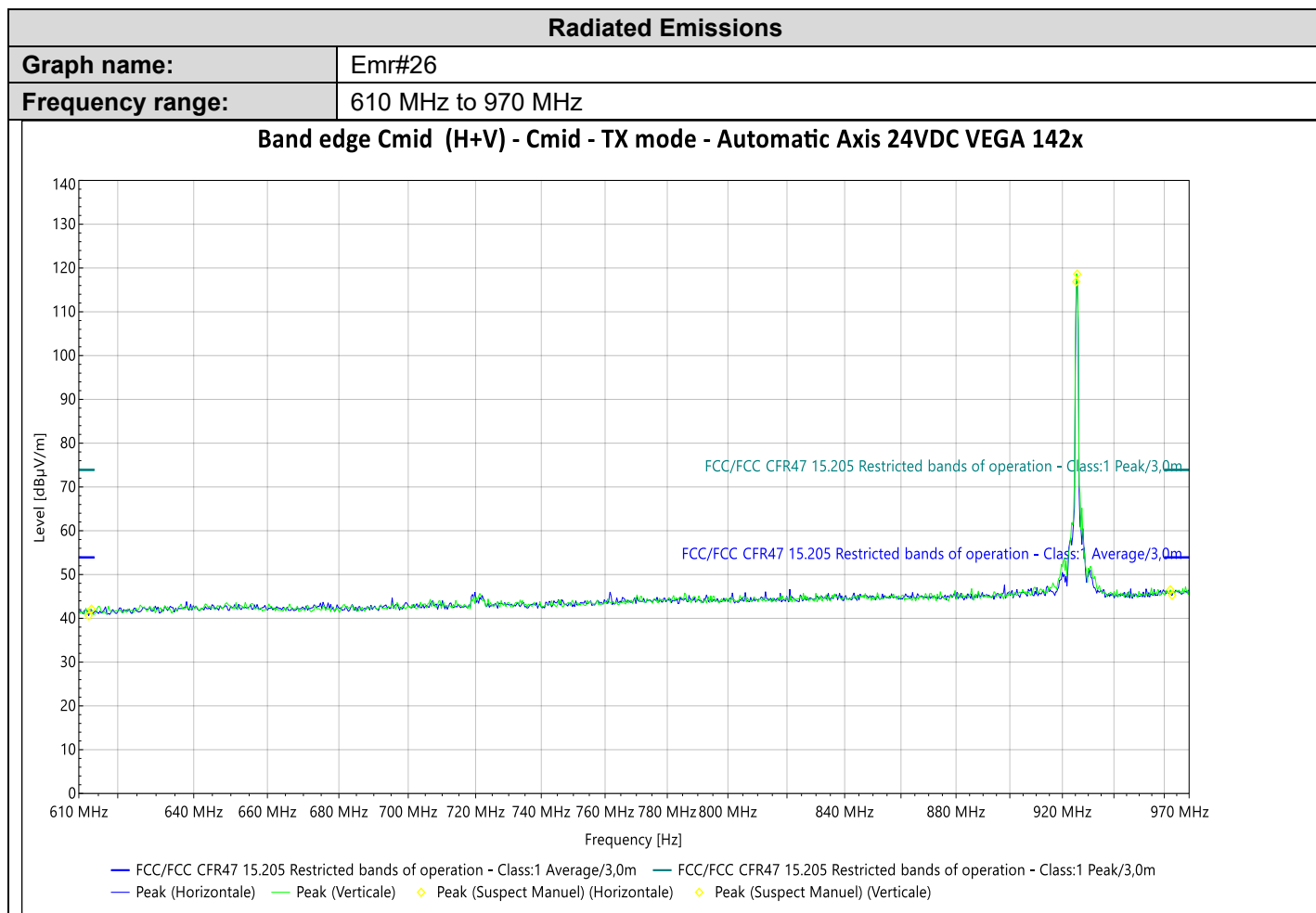
Graph identifier		Polarization	Mode	Channel	EUT position	Comments
Emr#	31	H/V	TX	Cmin	Axis XY	Antenna 2: 24VDC
Emr#	32	H/V	TX	Cmid	Axis XY	Antenna 2: 24VDC
Emr#	33	H/V	TX	Cmax	Axis XY	Antenna 2: 24VDC
Emr#	34	H/V	TX	Cmin	Axis XY	Antenna 2: 240VAC
Emr#	35	H/V	TX	Cmid	Axis XY	Antenna 2: 240VAC
Emr#	36	H/V	TX	Cmax	Axis XY	Antenna 2: 240VAC

Graph identifier		Polarization	Mode	Channel	EUT position	Comments
Emr#	37	H/V	TX	Cmin	Axis XY	Antenna 3: 24VDC
Emr#	38	H/V	TX	Cmid	Axis XY	Antenna 3: 24VDC
Emr#	39	H/V	TX	Cmax	Axis XY	Antenna 3: 24VDC
Emr#	40	H/V	TX	Cmin	Axis XY	Antenna 3: 240VAC
Emr#	41	H/V	TX	Cmid	Axis XY	Antenna 3: 240VAC
Emr#	42	H/V	TX	Cmax	Axis XY	Antenna 3: 240VAC



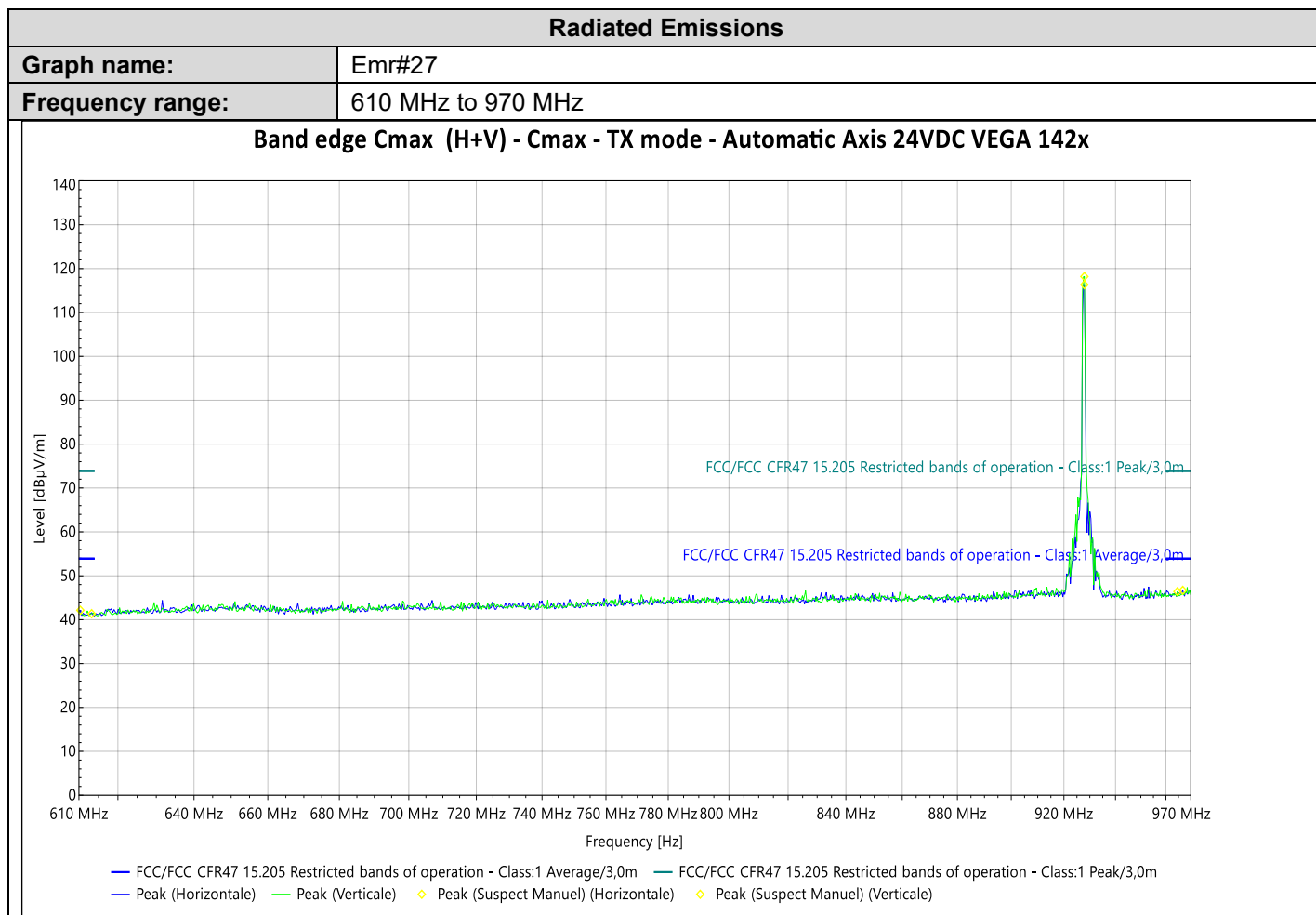
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	42.45	73.90	53.90	0	H	26.34
923.560 MHz	117.42	/	/	103	H	30.09
961.720 MHz	47.10	73.90	53.90	54	H	30.73
612.880 MHz	42.33	73.90	53.90	70	V	26.34
923.560 MHz	118.84	/	/	347	V	30.09
961.000 MHz	46.44	73.90	53.90	31	V	30.70



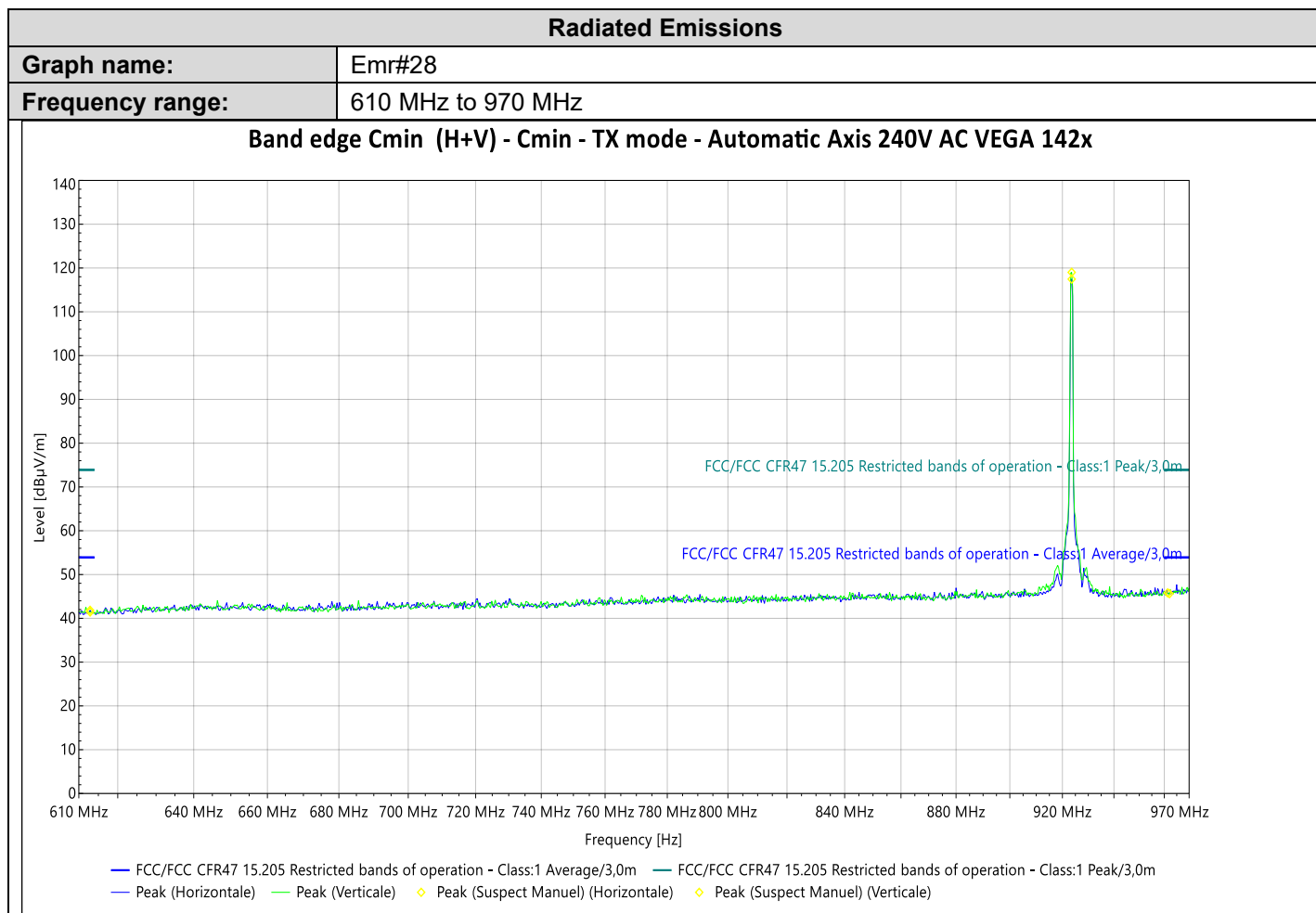
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.520 MHz	40.60	73.90	53.90	310	H	26.34
925.360 MHz	116.88	/	/	106	H	30.09
963.160 MHz	45.26	73.90	53.90	121	H	30.80
613.240 MHz	42.10	73.90	53.90	299	V	26.35
925.720 MHz	118.60	/	/	346	V	30.09
962.440 MHz	46.52	73.90	53.90	327	V	30.77



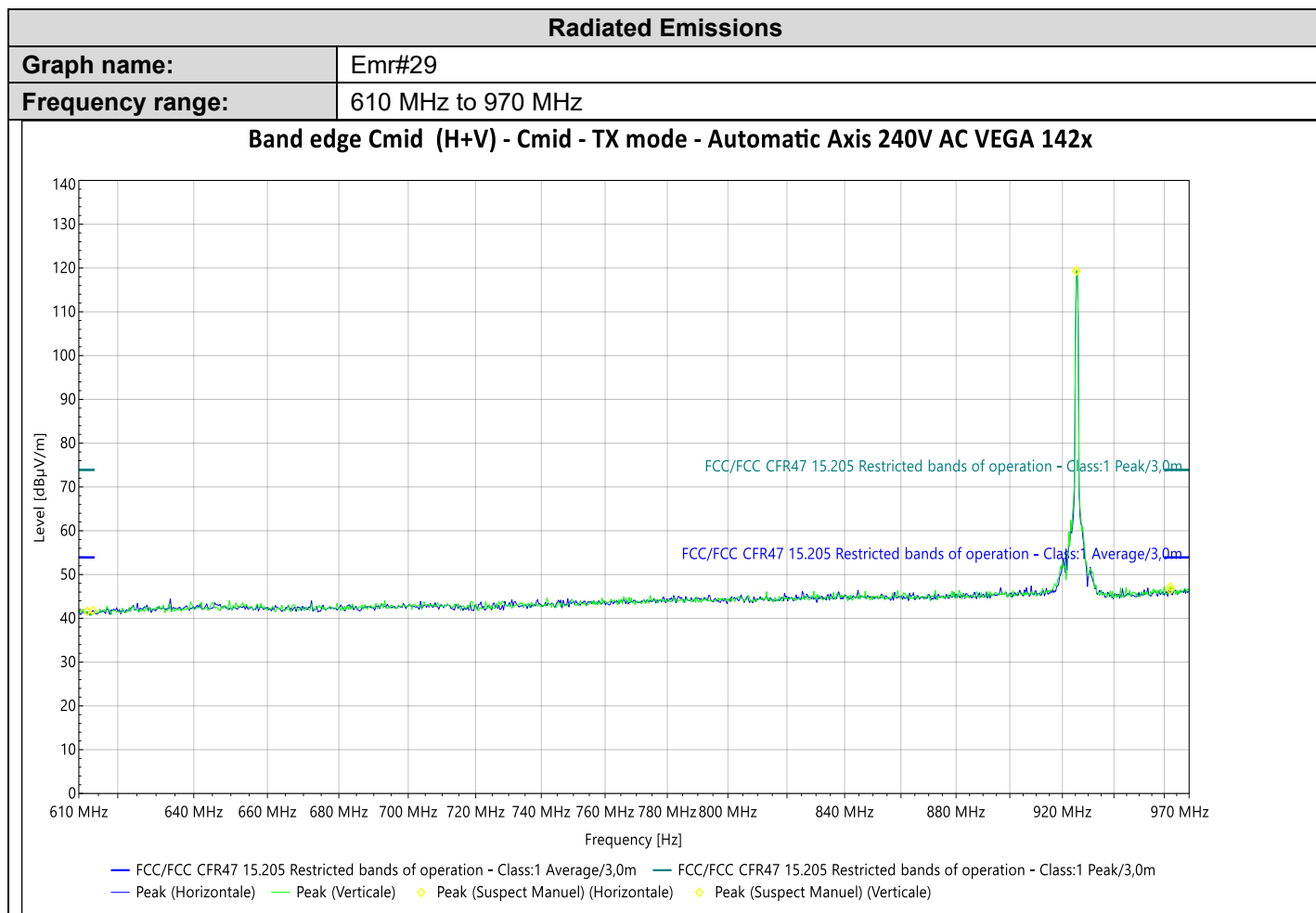
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
610.360 MHz	42.12	73.90	53.90	91	H	26.30
927.880 MHz	116.33	/	/	109	H	30.04
966.760 MHz	46.68	73.90	53.90	157	H	30.98
613.240 MHz	41.36	73.90	53.90	68	V	26.35
927.880 MHz	118.18	/	/	325	V	30.04
964.600 MHz	46.40	73.90	53.90	69	V	30.88



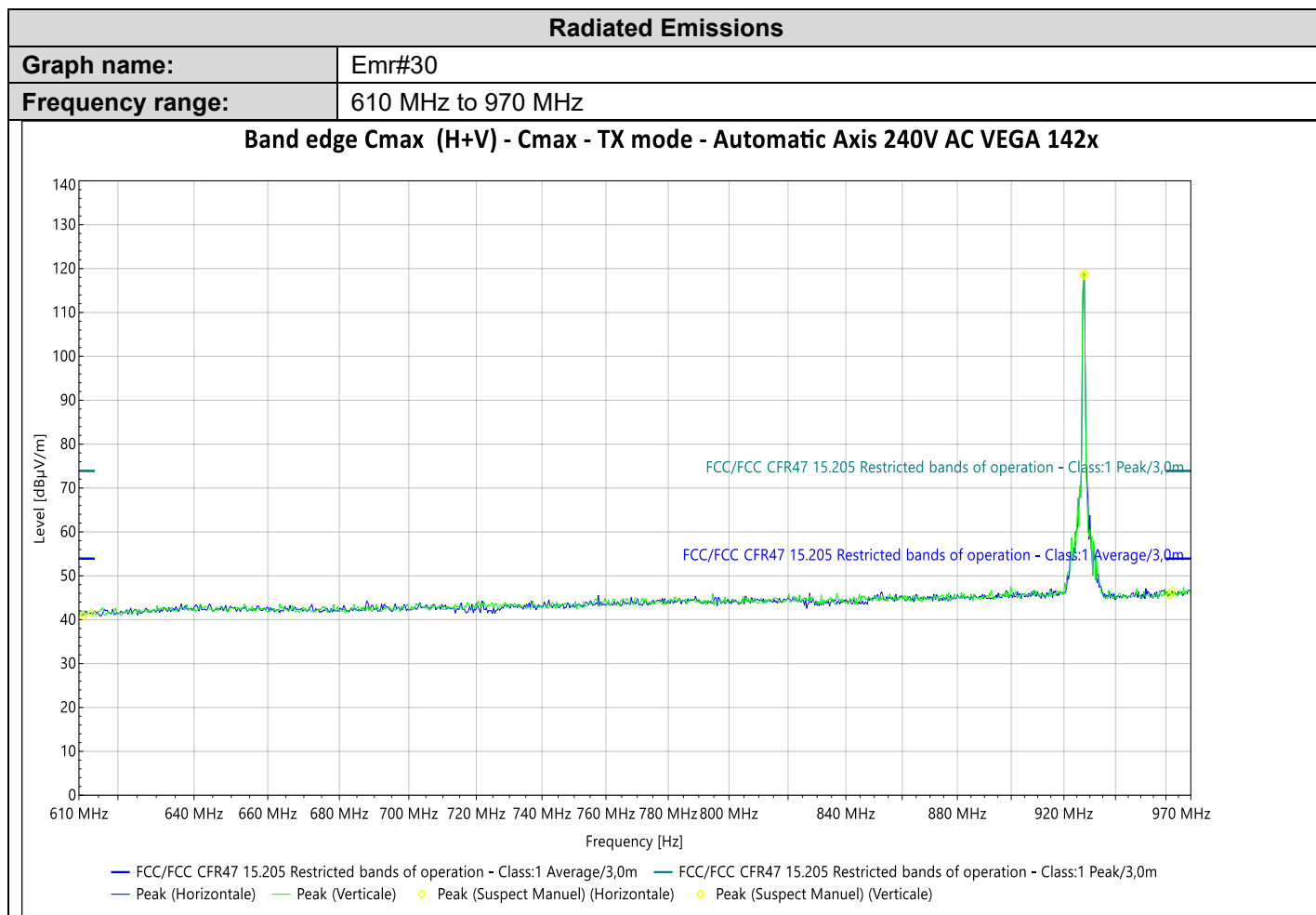
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	41.84	73.90	53.90	29	H	26.34
923.560 MHz	117.46	/	/	96	H	30.09
962.080 MHz	45.64	73.90	53.90	17	H	30.75
612.880 MHz	41.44	73.90	53.90	121	V	26.34
923.560 MHz	119.01	/	/	324	V	30.09
961.360 MHz	45.81	73.90	53.90	156	V	30.71



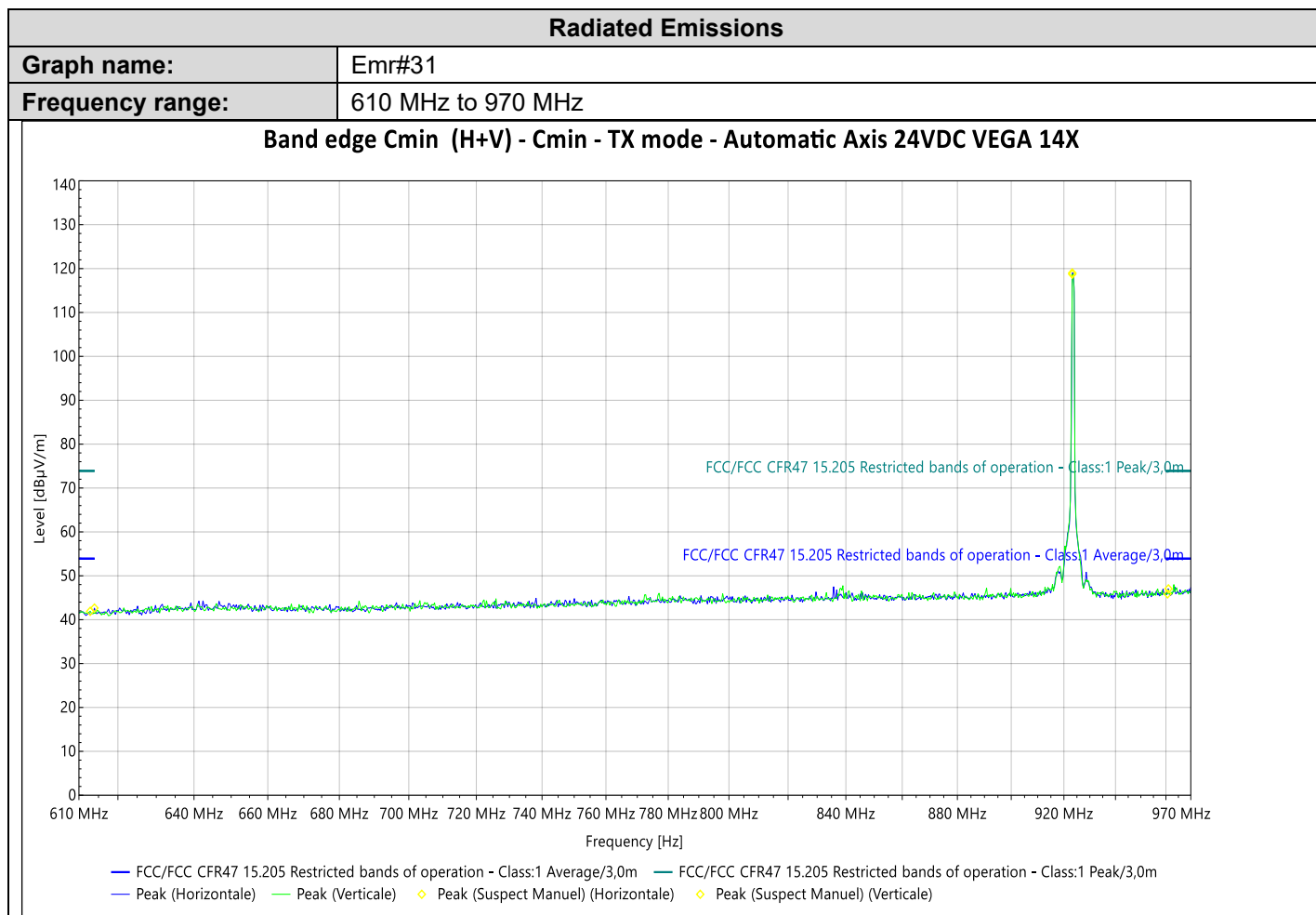
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
613.600 MHz	41.80	73.90	53.90	319	H	26.36
925.360 MHz	119.28	/	/	56	H	30.09
962.440 MHz	46.47	73.90	53.90	334	H	30.77
612.160 MHz	41.63	73.90	53.90	36	V	26.33
925.360 MHz	119.40	/	/	85	V	30.09
962.440 MHz	47.19	73.90	53.90	241	V	30.77



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
613.240 MHz	41.51	73.90	53.90	283	H	26.35
927.520 MHz	118.41	/	/	58	H	30.05
962.440 MHz	46.52	73.90	53.90	218	H	30.77
611.080 MHz	40.86	73.90	53.90	147	V	26.31
927.880 MHz	118.93			84	V	30.04
961.360 MHz	45.58	73.90	53.90	0	V	30.71



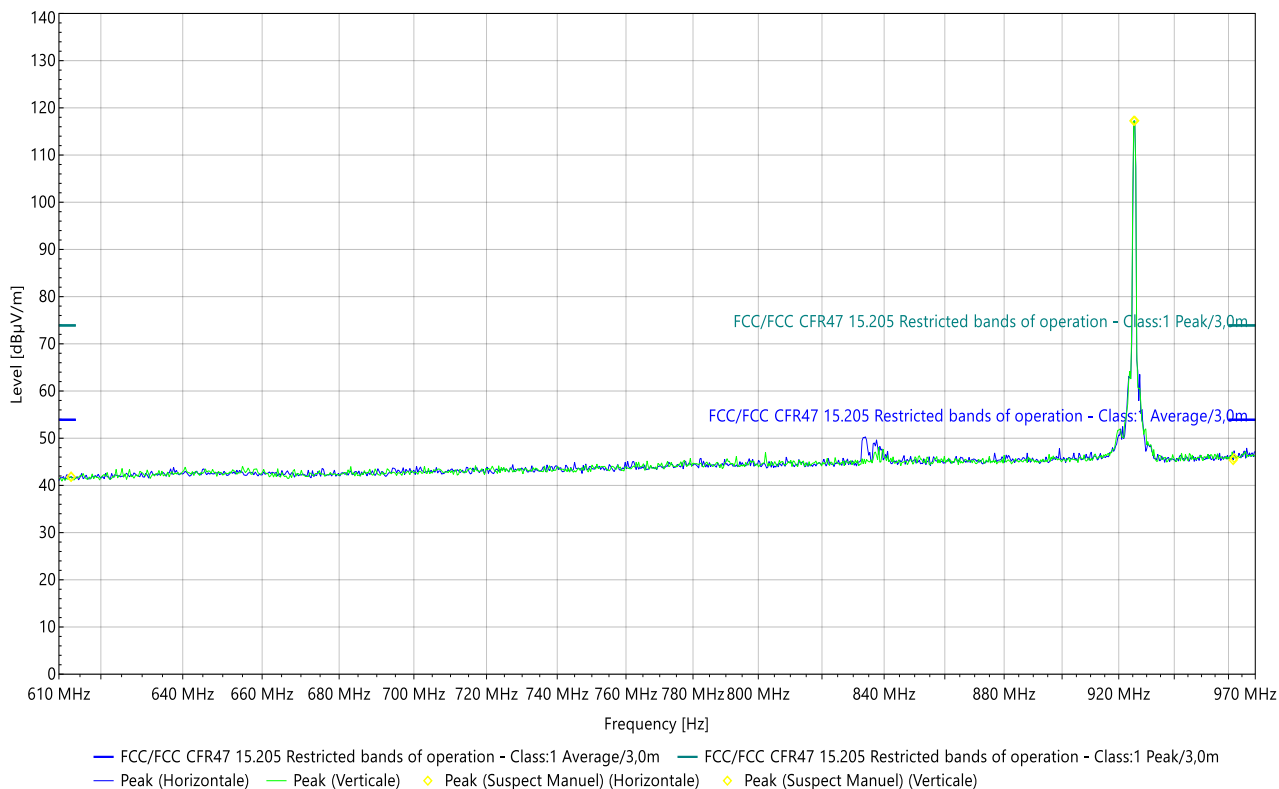
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
613.960 MHz	42.66	73.90	53.90	295	H	26.50
923.200 MHz	119.01	/	/	149	H	30.36
961.000 MHz	47.03	73.90	53.90	58	H	30.97
612.880 MHz	41.91	73.90	53.90	305	V	26.48
923.200 MHz	118.73	/	/	344	V	30.36
960.640 MHz	45.87	73.90	53.90	269	V	30.96

Radiated Emissions

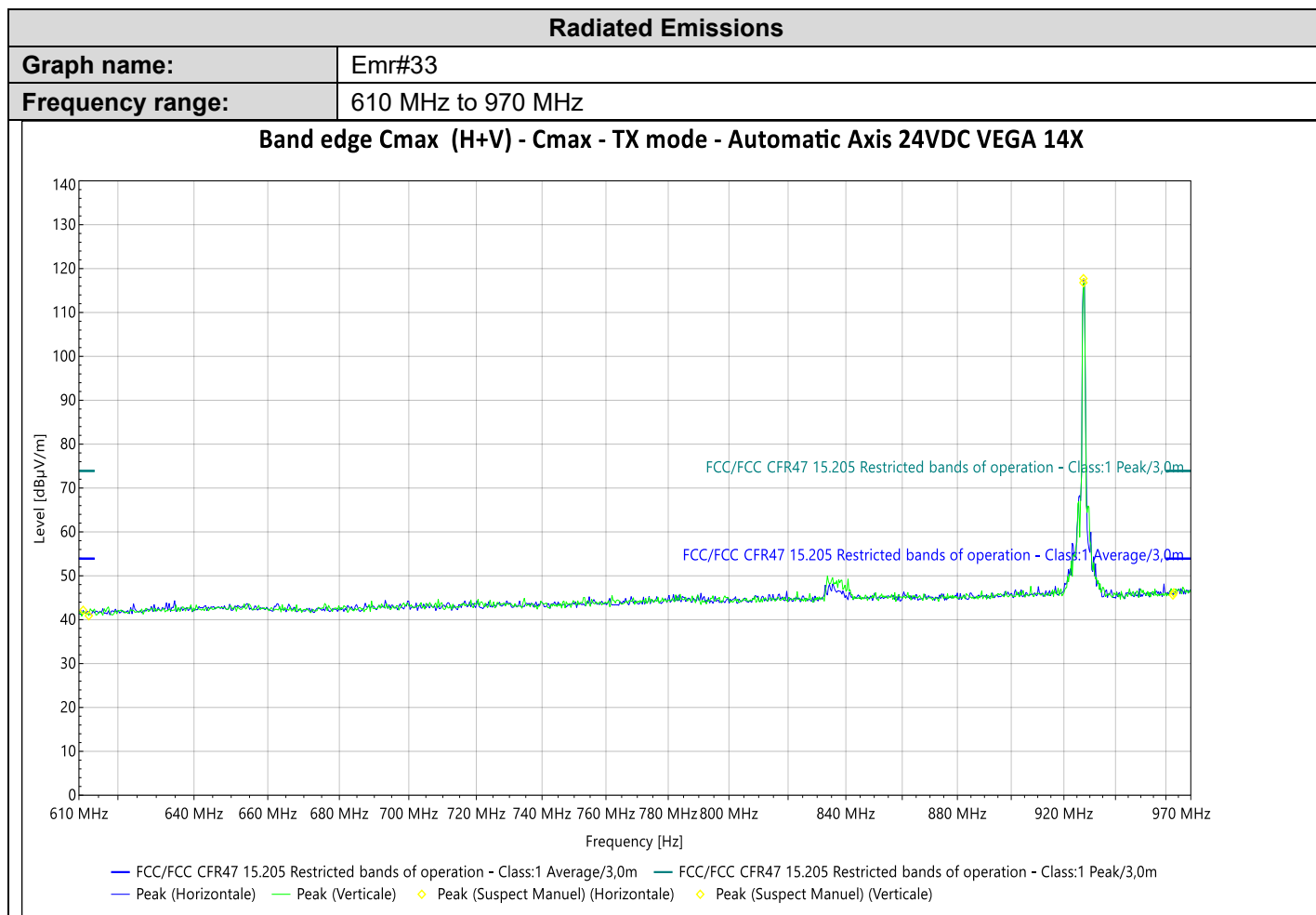
Graph name: Emr#32
Frequency range: 610 MHz to 970 MHz

Band edge Cmid (H+V) - Cmid - TX mode - Automatic Axis 24VDC VEGA 14X



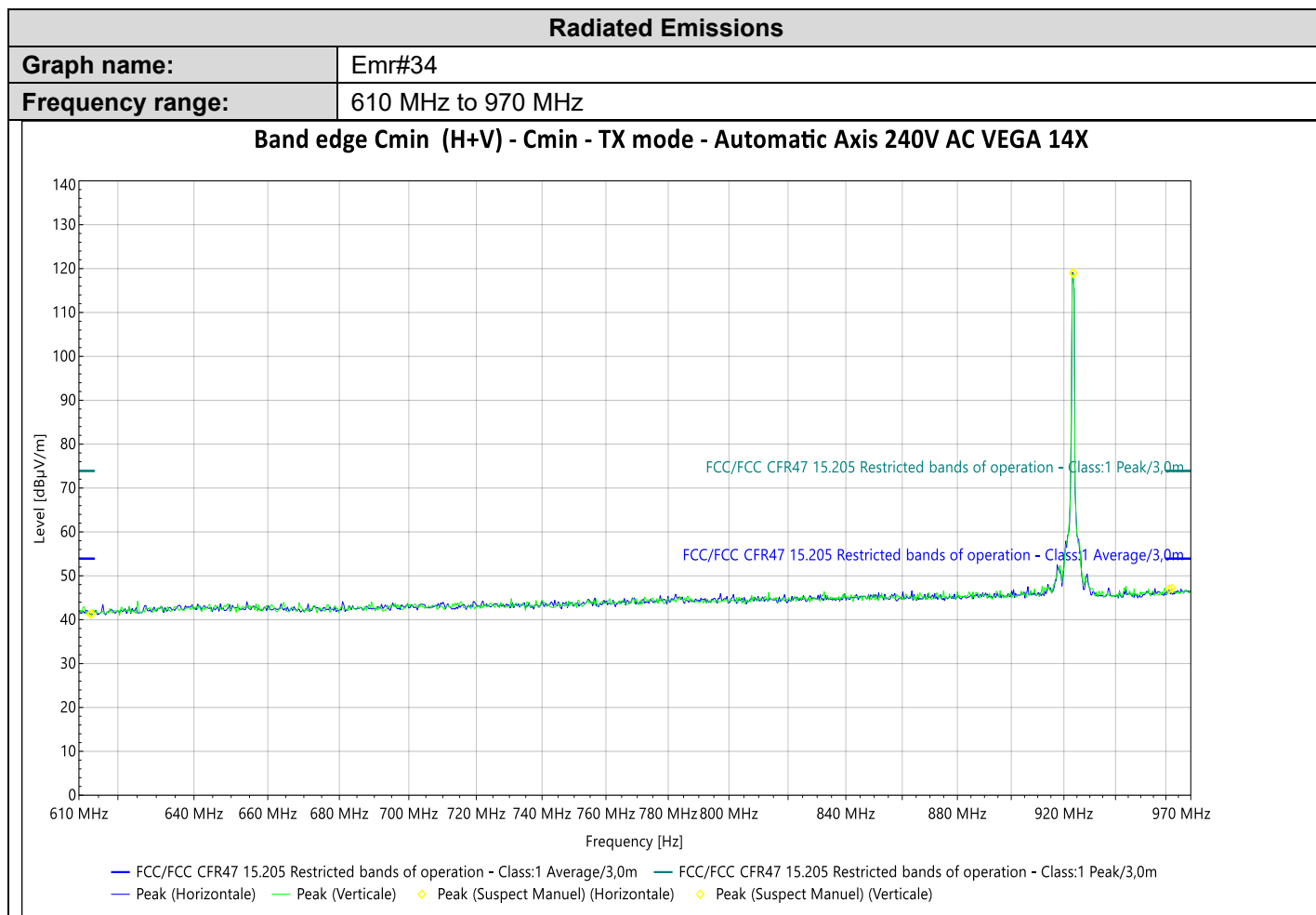
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	41.88	73.90	53.90	268	H	26.48
925.720 MHz	117.27	/	/	157	H	30.36
961.720 MHz	45.36	73.90	53.90	340	H	31.01
612.880 MHz	41.80	73.90	53.90	250	V	26.48
925.360 MHz	117.25	/	/	345	V	30.36
962.080 MHz	45.79	73.90	53.90	211	V	31.02



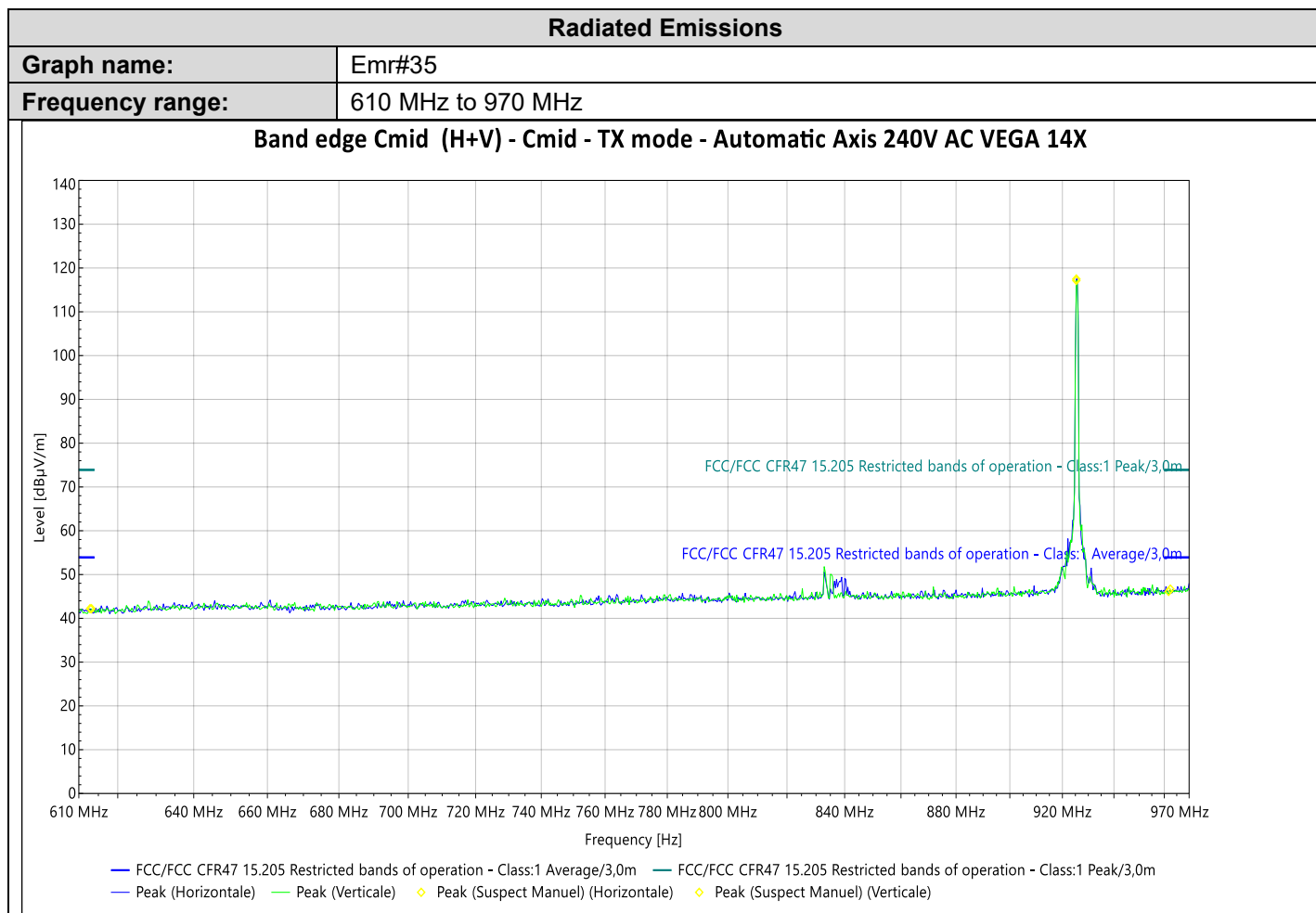
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
611.080 MHz	42.14	73.90	53.90	117	H	26.44
927.520 MHz	117.72	/	/	151	H	30.32
962.800 MHz	45.62	73.90	53.90	307	H	31.06
612.520 MHz	40.90	73.90	53.90	342	V	26.47
927.520 MHz	116.80	/	/	342	V	30.32
963.160 MHz	46.14	73.90	53.90	230	V	31.08



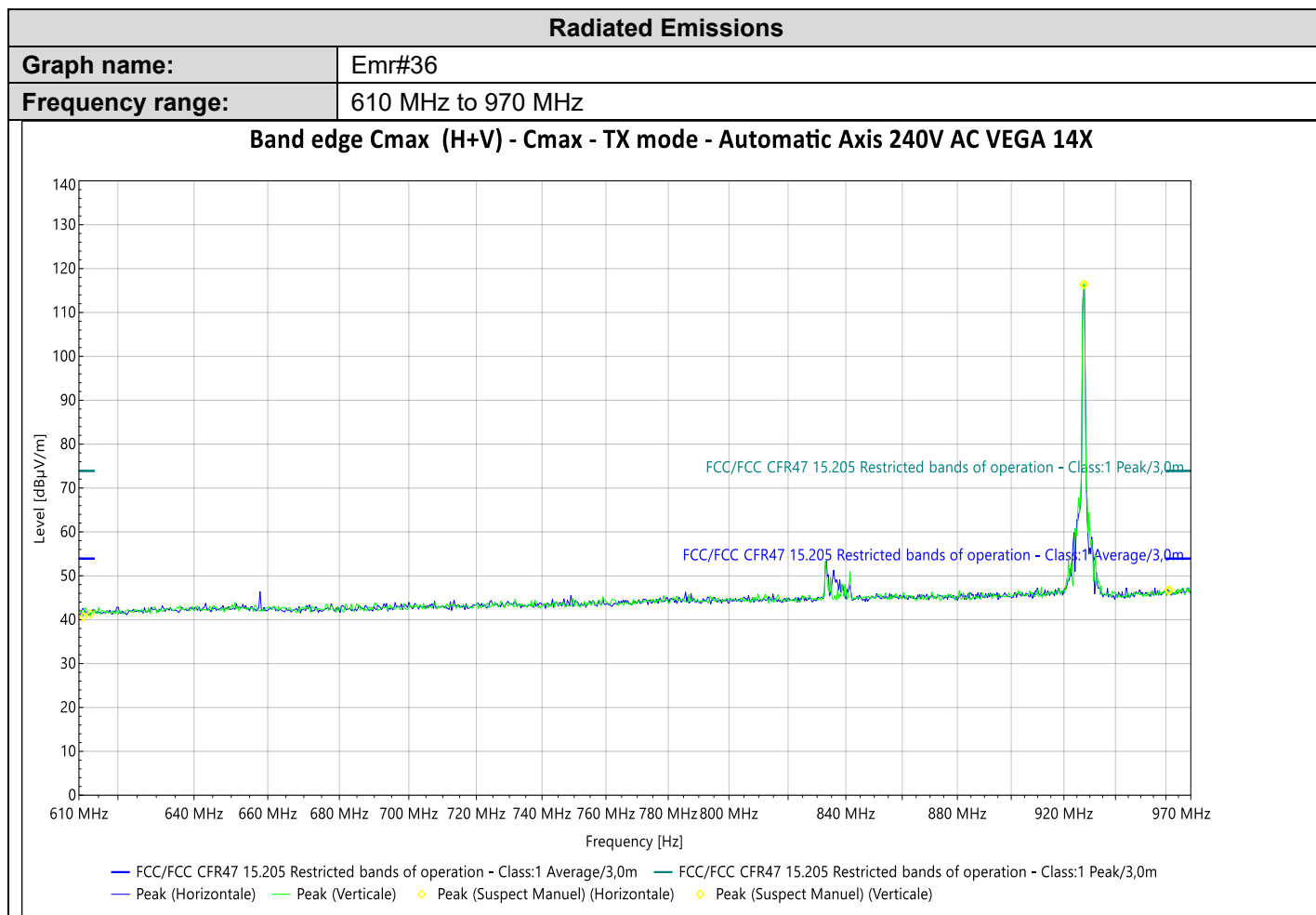
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	41.28	73.90	53.90	220	H	26.48
923.560 MHz	119.08	/	/	154	H	30.36
961.360 MHz	46.98	73.90	53.90	22	H	30.99
613.240 MHz	41.30	73.90	53.90	117	V	26.48
923.560 MHz	118.81	/	/	346	V	30.36
962.440 MHz	47.15	73.90	53.90	346	V	31.04



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	42.21	73.90	53.90	129	H	26.48
925.360 MHz	117.50	/	/	282	H	30.36
961.720 MHz	46.14	73.90	53.90	58	H	31.01
613.240 MHz	42.19	73.90	53.90	0	V	26.48
925.360 MHz	117.16	/	/	350	V	30.36
962.440 MHz	46.68	73.90	53.90	295	V	31.04



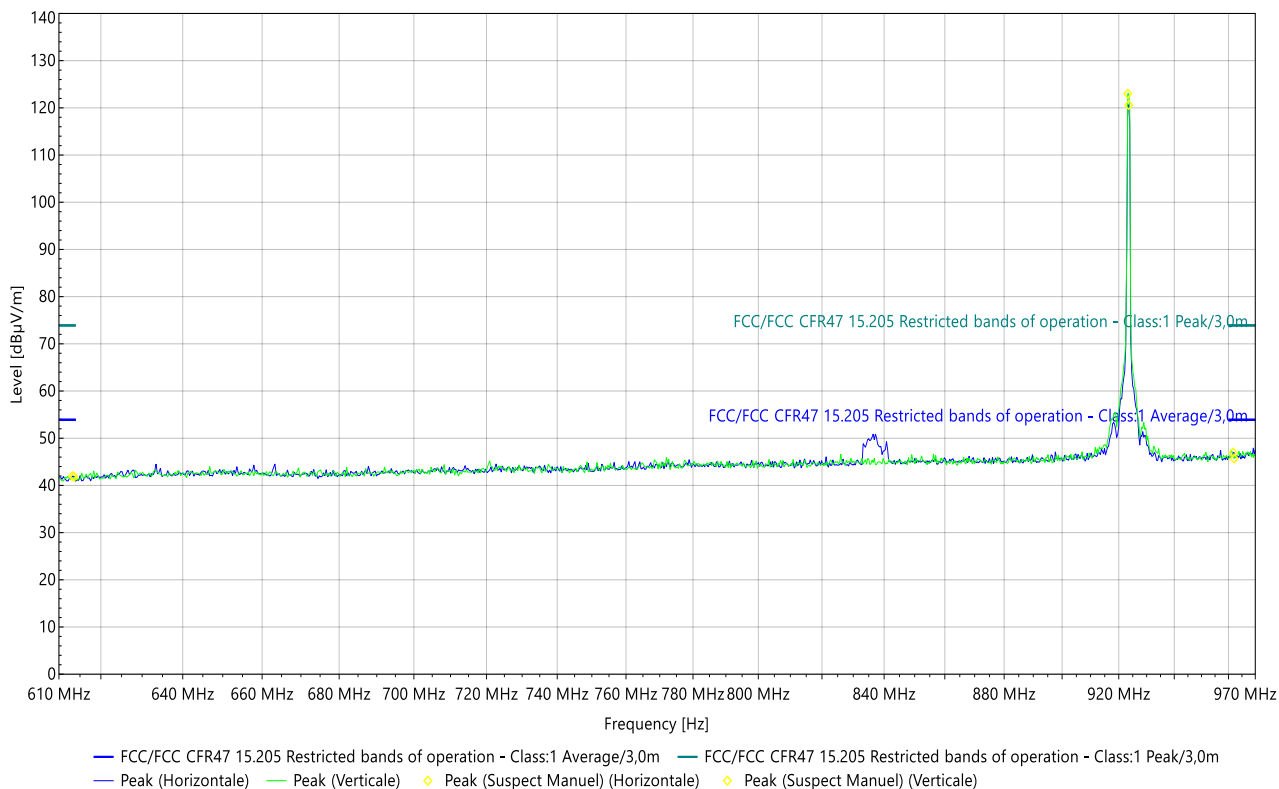
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	41.34	73.90	53.90	0	H	26.48
927.520 MHz	116.29	/	/	283	H	30.32
961.000 MHz	46.73	73.90	53.90	318	H	30.97
611.080 MHz	40.69	73.90	53.90	54	V	26.44
927.880 MHz	116.46	/	/	348	V	30.31
961.360 MHz	46.65	73.90	53.90	167	V	30.99

Radiated Emissions

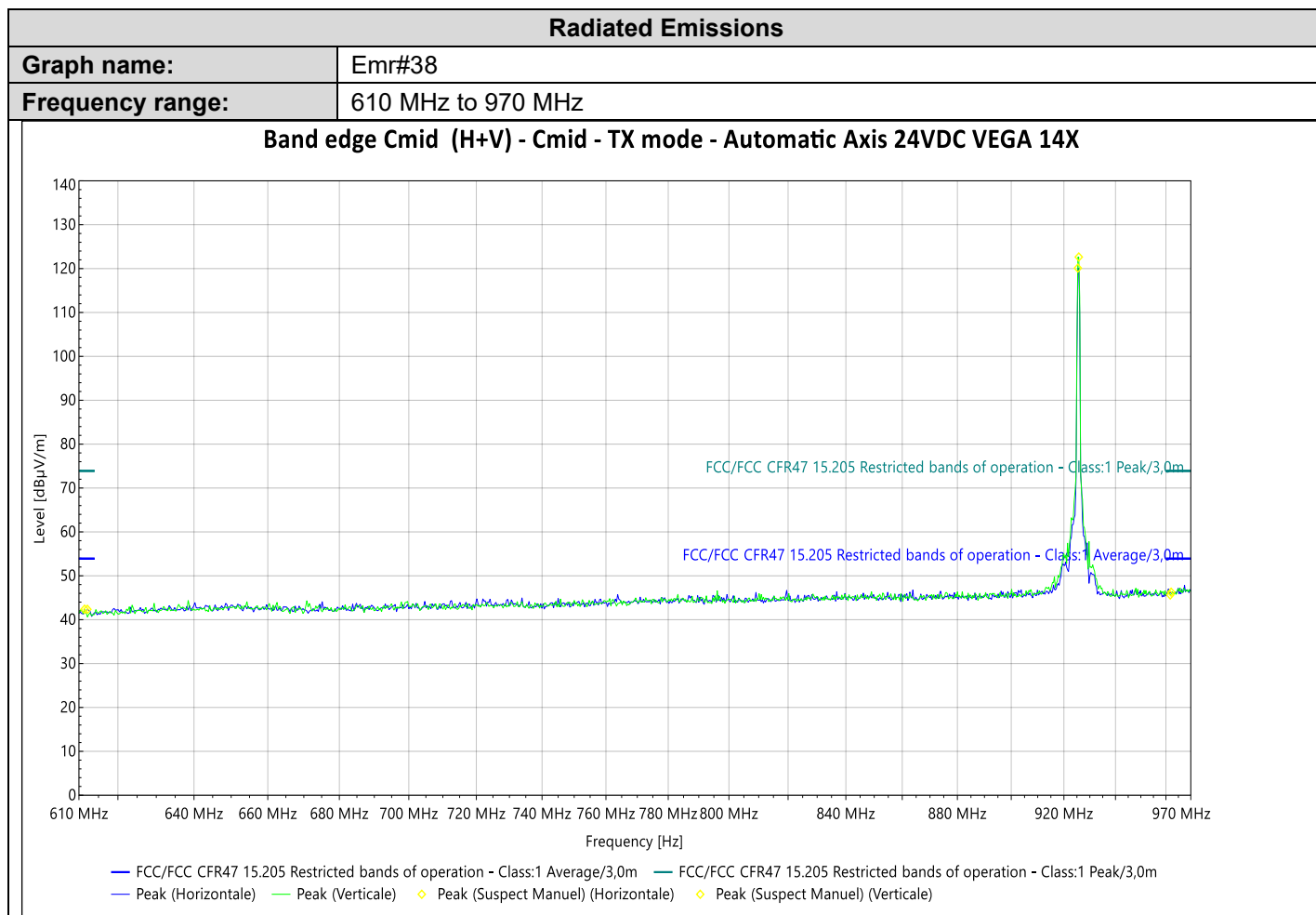
Graph name: Emr#37
Frequency range: 610 MHz to 970 MHz

Band edge Cmin (H+V) - Cmin - TX mode - Automatic Axis 24VDC VEGA 14X



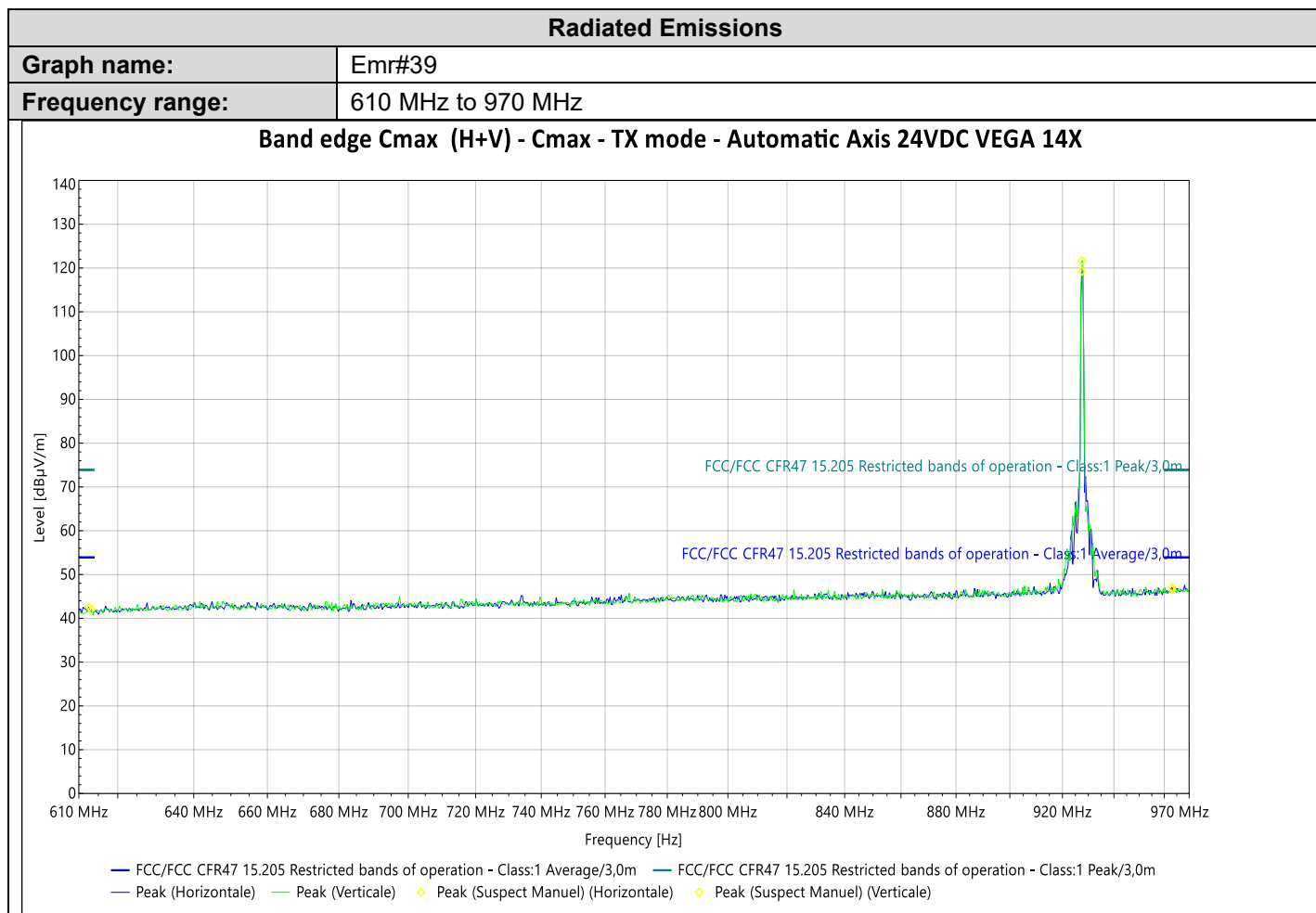
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
613.240 MHz	41.97	73.90	53.90	247	H	26.48
923.560 MHz	120.61	/	/	143	H	30.36
961.720 MHz	46.96	73.90	53.90	138	H	31.01
613.600 MHz	41.82	73.90	53.90	278	V	26.49
923.200 MHz	123.00	/	/	169	V	30.36
962.080 MHz	45.70	73.90	53.90	229	V	31.02



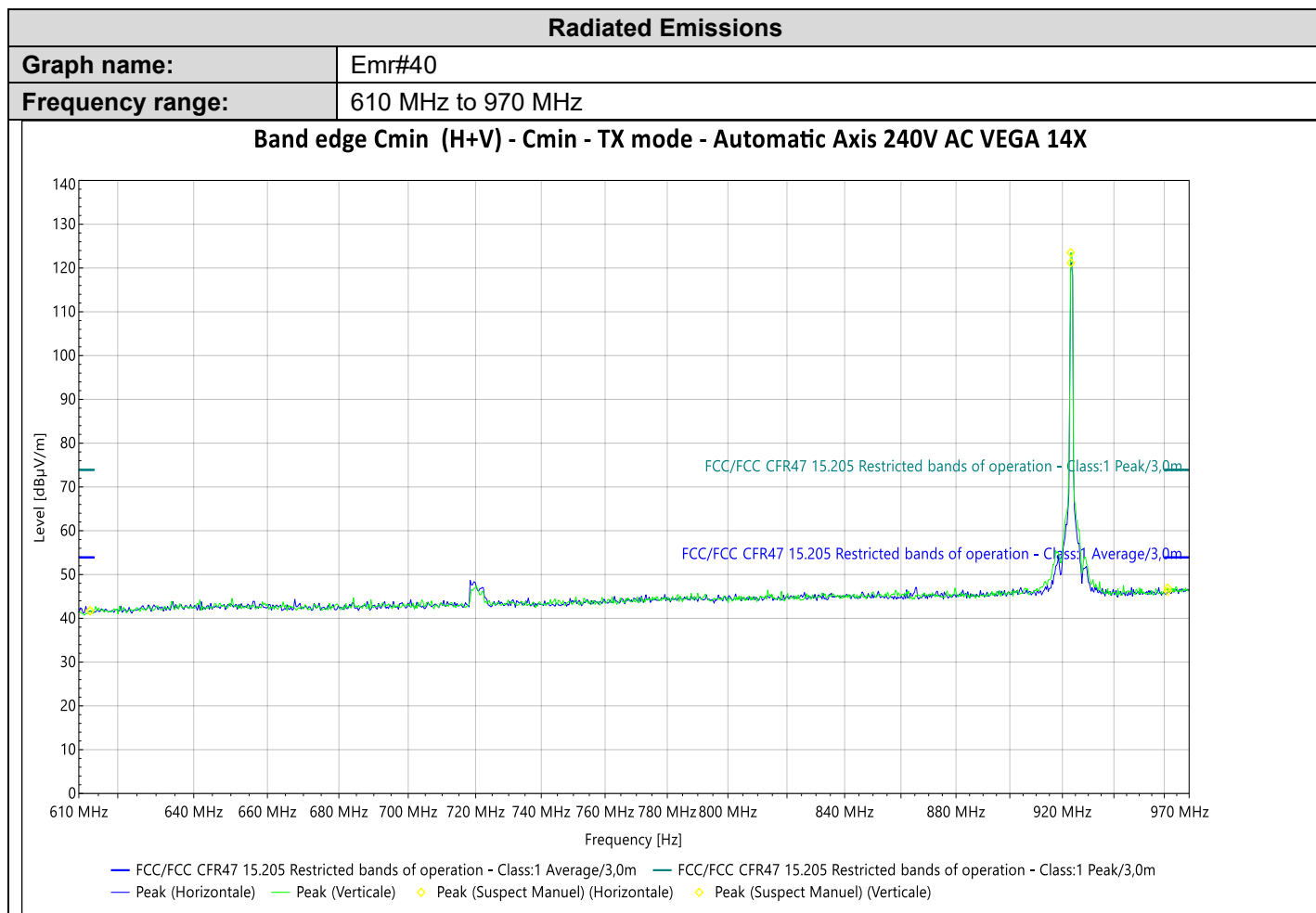
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
612.160 MHz	42.36	73.90	53.90	6	H	26.46
925.360 MHz	120.11	/	/	142	H	30.36
962.080 MHz	46.26	73.90	53.90	22	H	31.02
611.440 MHz	42.39	73.90	53.90	140	V	26.45
925.720 MHz	122.64	/	/	168	V	30.36
961.720 MHz	45.62	73.90	53.90	224	V	31.01



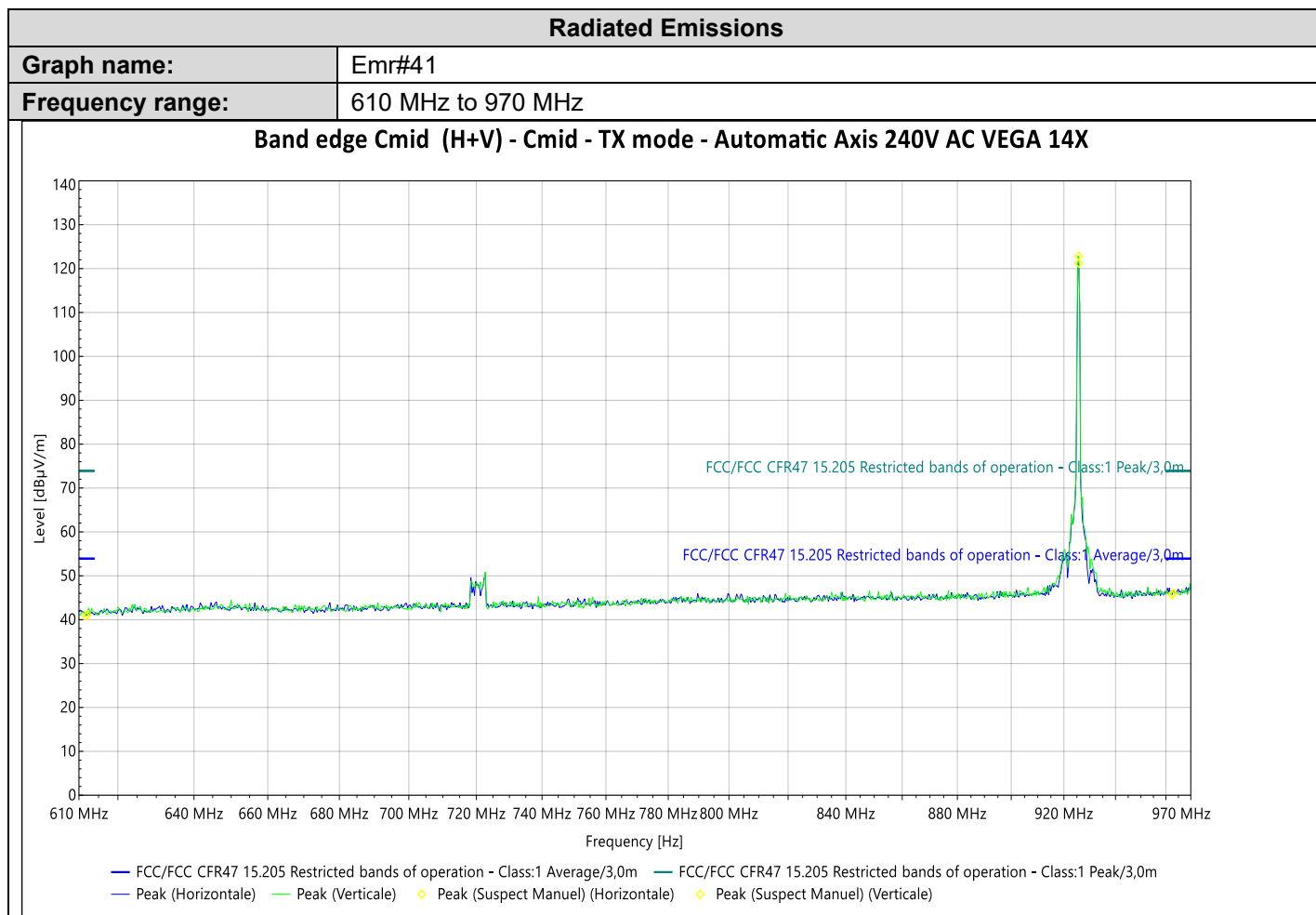
Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.520 MHz	42.57	73.90	53.90	0	H	26.47
927.520 MHz	119.28	/	/	113	H	30.32
963.160 MHz	47.00	73.90	53.90	160	H	31.08
613.240 MHz	42.04	73.90	53.90	60	V	26.48
927.520 MHz	121.69	/	/	168	V	30.32
963.160 MHz	46.55	73.90	53.90	57	V	31.08



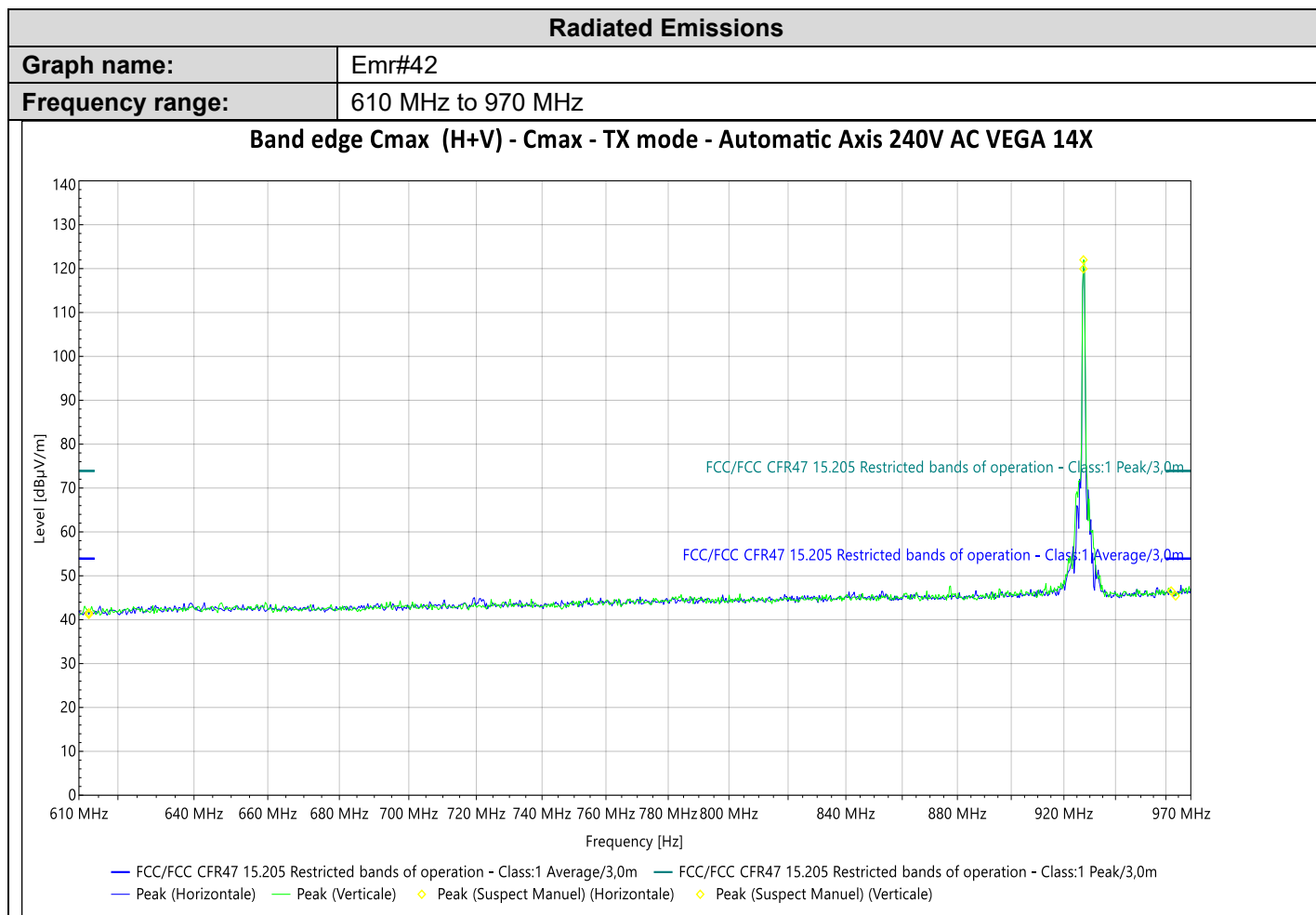
Pre-Characterization:

Frequency	PK Level (dBμV/m)	Lim.PK (dBμV/m)	Lim.Avg (dBμV/m)	Angle (°)	Polar.	Correct. (dB)
612.880 MHz	41.74	73.90	53.90	265	H	26.48
923.200 MHz	121.18	/	/	131	H	30.36
961.360 MHz	46.19	73.90	53.90	328	H	30.99
612.880 MHz	41.73	73.90	53.90	32	V	26.48
923.200 MHz	123.52	/	/	220	V	30.36
961.360 MHz	46.92	73.90	53.90	44	V	30.99



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.160 MHz	41.14	73.90	53.90	210	H	26.46
925.720 MHz	121.20	/	/	257	H	30.36
962.440 MHz	45.68	73.90	53.90	338	H	31.04
611.800 MHz	40.85	73.90	53.90	246	V	26.46
925.720 MHz	122.85	/	/	151	V	30.36
962.800 MHz	46.08	73.90	53.90	254	V	31.06



Pre-Characterization:

Frequency	PK Level (dBµV/m)	Lim.PK (dBµV/m)	Lim.Avg (dBµV/m)	Angle (°)	Polar.	Correct. (dB)
612.520 MHz	41.20	73.90	53.90	158	H	26.47
927.520 MHz	119.93	/	/	138	H	30.32
962.080 MHz	46.55	73.90	53.90	350	H	31.02
612.520 MHz	41.55	73.90	53.90	148	V	26.47
927.520 MHz	121.99	/	/	151	V	30.32
963.880 MHz	45.40	73.90	53.90	79	V	31.12

9.7. CONCLUSION

Unwanted emissions in non-restricted bands measurement performed on the sample of the product **VEGAMET Air 142**, Sn: **14200004**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247** limits.

10. UNCERTAINTIES CHART

Kind of test	Wide uncertainty laboratory ($k=1.96$) $\pm x (y)$
Occupied Bandwidth	1.35 %
Humidity	4.84 %
Power Spectral Density, Conducted	1.95 dB
Radio frequency until 30MHz	0.09 ppm
Radio frequency from 30MHz	0.31 ppm
RF power, conducted	1.49 dB
RF power, radiated (Full Anechoic Chamber)	4.84 dB
RF power, radiated (Semi Anechoic Chamber)	5.65 dB
RF power, radiated (Open Area Test Site)	5.27 dB
Spurious emission, conducted	2.47 dB
Spurious emission radiated (Full Anechoic Chamber)	4.84 dB
Spurious emission radiated (Semi Anechoic Chamber)	5.65 dB
Spurious emission radiated (Open Area Test Site)	5.27 dB
Generated signal levels, conducted	2.94 dB
Generated signal levels, radiated	Not used in laboratory
Adaptivity & Dynamic Frequency Selection	3.59 dB, 2.77 %, 2.53 %
Receiver blocking or desensitization	3.59 dB
RF level uncertainty for a given BER	1.49 dB
Temperature	0.75 °C
Time	4.08 %
Voltage	0.91 %
Conducted disturbances in voltage on the power port - 9kHz - 150kHz	3.64 dB
Conducted disturbances in voltage on the power port - 150kHz - 30MHz	3.21 dB
Radiated disturbances OATS & SAC @3m - 9kHz - 30MHz, Loop antenna	4.90 dB
Radiated disturbances OATS & SAC @3m - 30MHz - 200MHz, Biconical antenna	5.74 dB
Radiated disturbances OATS & SAC @3m - 30MHz - 1GHz, Hybrid antenna	5.65 dB
Radiated disturbances OATS @10m - 9kHz - 30MHz, Loop antenna	4.90 dB
Radiated disturbances OATS @10m - 30MHz - 200MHz, Biconical antenna	5.72 dB
Radiated disturbances OATS @10m - 30MHz - 1GHz, Hybrid antenna	5.91 dB
Radiated disturbances FAC @3m - 1GHz - 6GHz, Horn or hybrid antenna	5.02 dB
Radiated disturbances FAC @3m - 6GHz - 18GHz, Horn antenna	5.41 dB
Radiated disturbances FAC @3m - 18GHz - 40GHz, Horn antenna	7.81 dB

Ce tableau regroupe l'ensemble des incertitudes maximales pour les essais réalisables dans le laboratoire, qu'ils aient été ou non réalisés dans le cadre du présent rapport. / This table includes all uncertainties maximum feasible for testing in the laboratory, whether or not made in this report.

Note - L'incertitude de mesure instrumentale est déterminée selon la CISPR 16-4-2, les ETSI TR 100 028 et les ETSI TR 102 273. / The instrumentation measurement uncertainty is determined according to CISPR16-4-2, ETSI TR 100 028 and ETSI TR 102 273.



----- **END OF REPORT** -----