10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

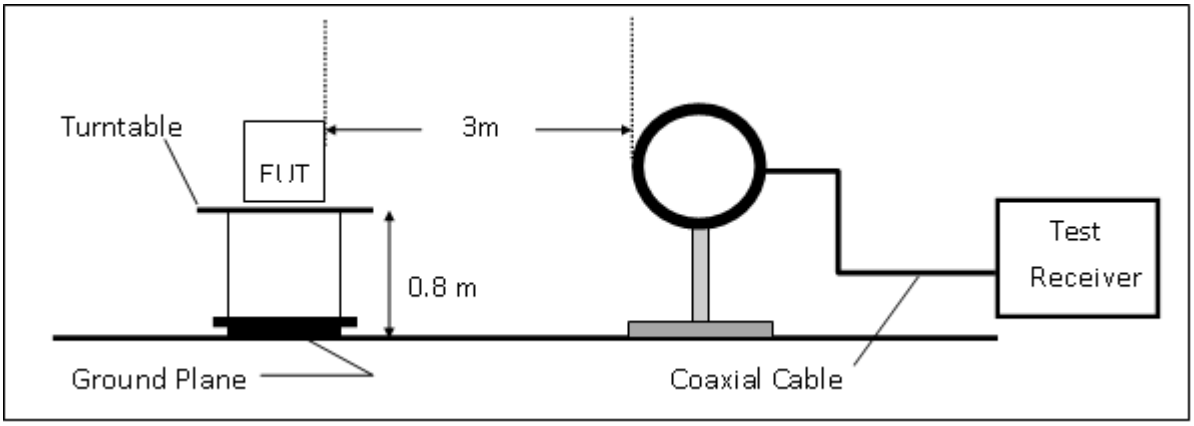
10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

10.2. EUT Setup

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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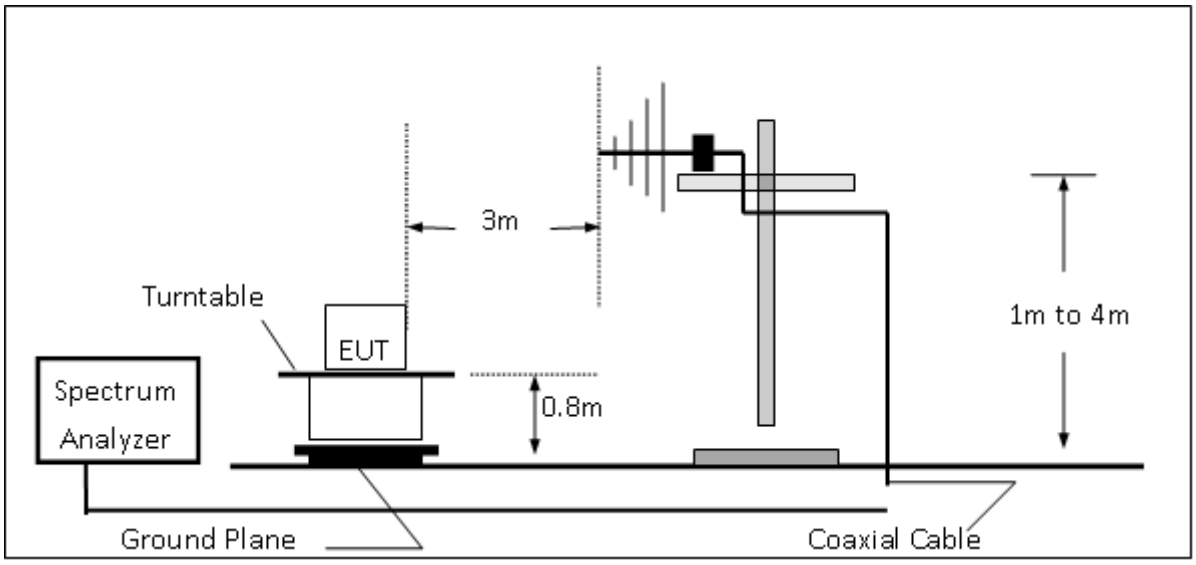
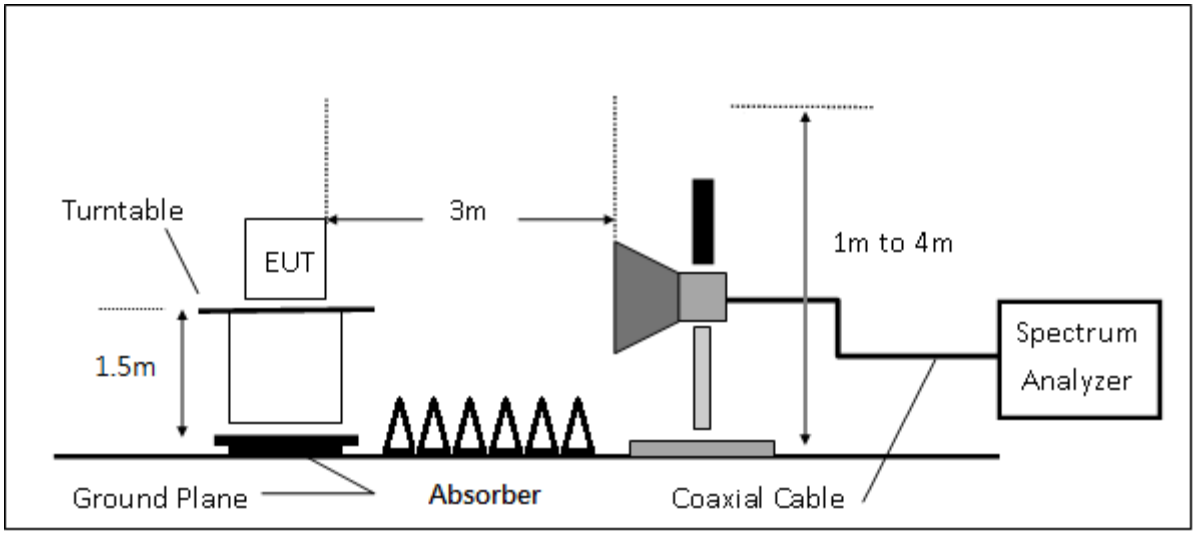
(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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10.4. Measurement Equipment Used:

SGS 966 Chamber No.C					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3117	00143280	09/23/2014	09/22/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	04/23/2014	04/22/2015
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/31/2014	05/30/2015
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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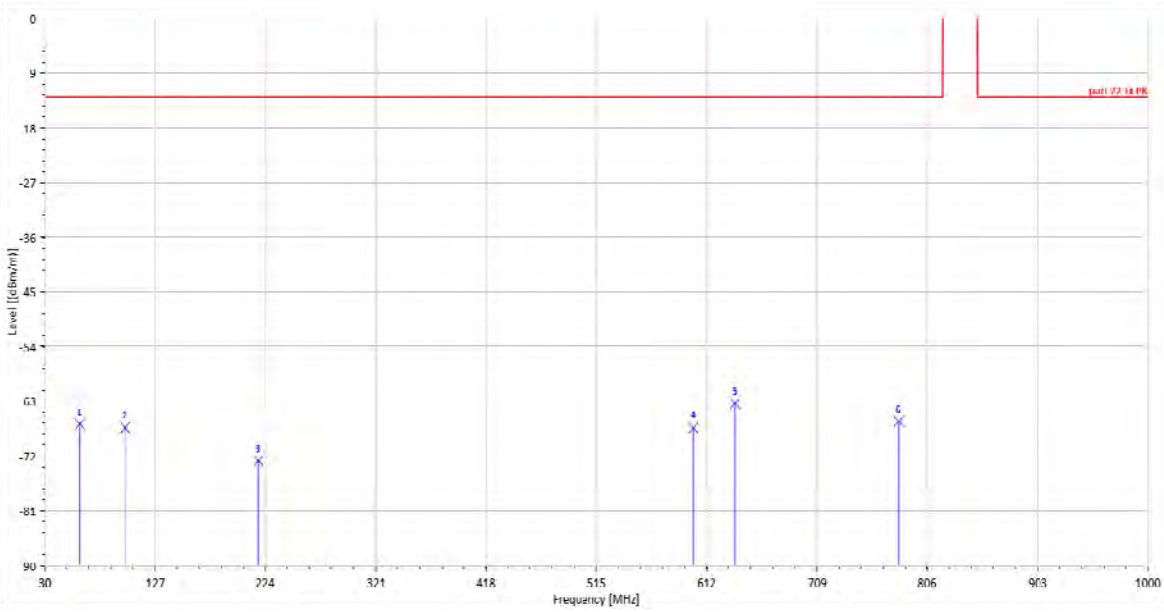
10.5. Measurement Result (Below 1GHz):

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
61.04	S	-66.73	-62.73	-3.05	-0.95	-13.00	-53.73
100.81	S	-67.35	-62.78	-3.36	-1.20	-13.00	-54.35
218.18	S	-72.76	-75.00	4.01	-1.77	-13.00	-59.76
600.36	S	-67.36	-68.73	4.32	-2.95	-13.00	-54.36
637.22	S	-63.32	-64.85	4.54	-3.02	-13.00	-50.32
780.78	S	-66.30	-68.22	5.20	-3.28	-13.00	-53.30

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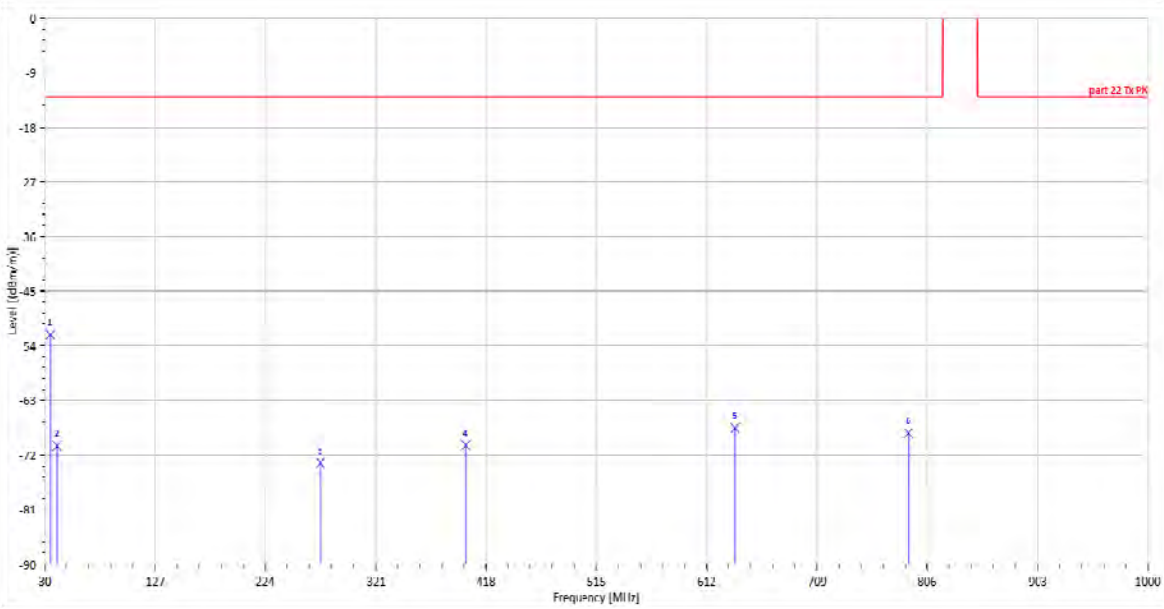
ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-52.17	-33.16	-18.29	-0.72	-13.00	-39.17
40.67	S	-70.52	-56.15	-13.59	-0.78	-13.00	-57.52
272.50	S	-73.33	-74.49	3.14	-1.98	-13.00	-60.33
400.54	S	-70.42	-71.30	3.20	-2.32	-13.00	-57.42
637.22	S	-67.61	-69.13	4.54	-3.02	-13.00	-54.61
789.51	S	-68.40	-70.33	5.21	-3.28	-13.00	-55.40

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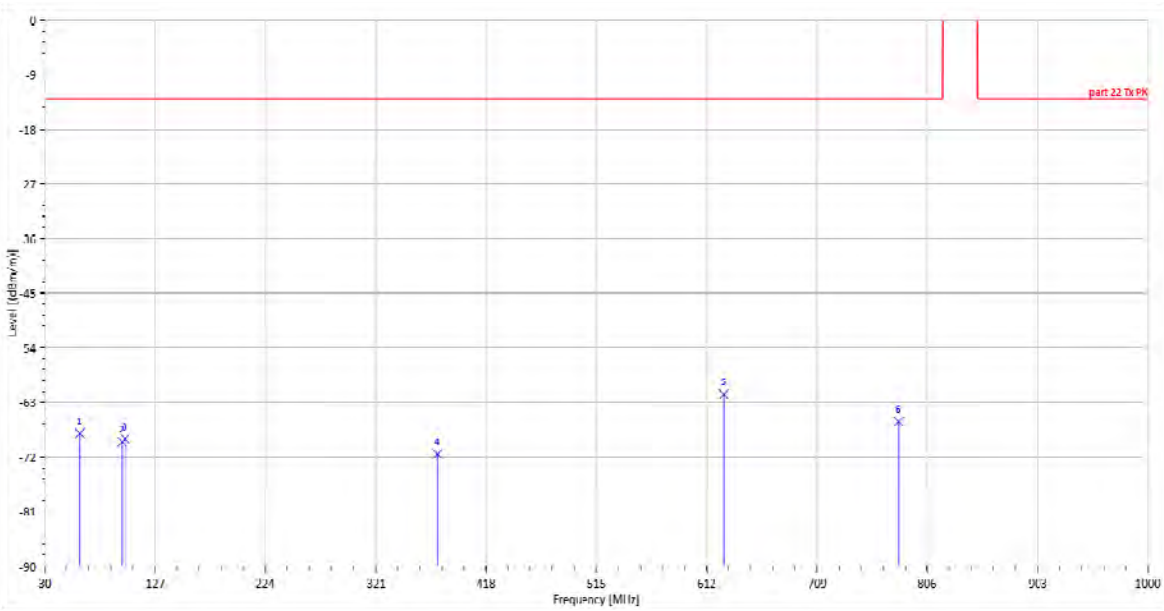
ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
61.04	S	-68.09	-64.09	-3.05	-0.95	-13.00	-55.09
97.90	S	-69.55	-65.25	-3.11	-1.19	-13.00	-56.55
100.81	S	-69.05	-64.49	-3.36	-1.20	-13.00	-56.05
375.32	S	-71.52	-72.49	3.32	-2.35	-13.00	-58.52
627.52	S	-61.69	-63.18	4.49	-2.99	-13.00	-48.69
780.78	S	-66.21	-68.13	5.20	-3.28	-13.00	-53.21

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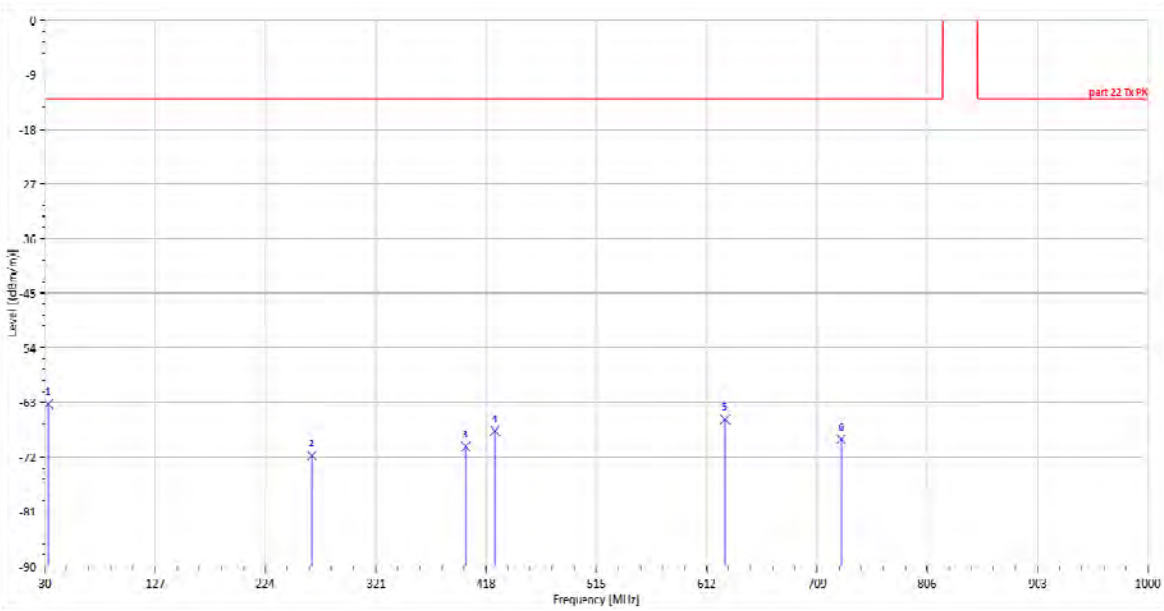
ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-63.34	-42.66	-19.97	-0.70	-13.00	-50.34
264.74	S	-71.82	-72.41	2.55	-1.96	-13.00	-58.82
400.54	S	-70.30	-71.18	3.20	-2.32	-13.00	-57.30
425.76	S	-67.71	-68.75	3.42	-2.37	-13.00	-54.71
628.49	S	-65.84	-67.22	4.49	-3.11	-13.00	-52.84
730.34	S	-69.09	-70.99	5.12	-3.22	-13.00	-56.09

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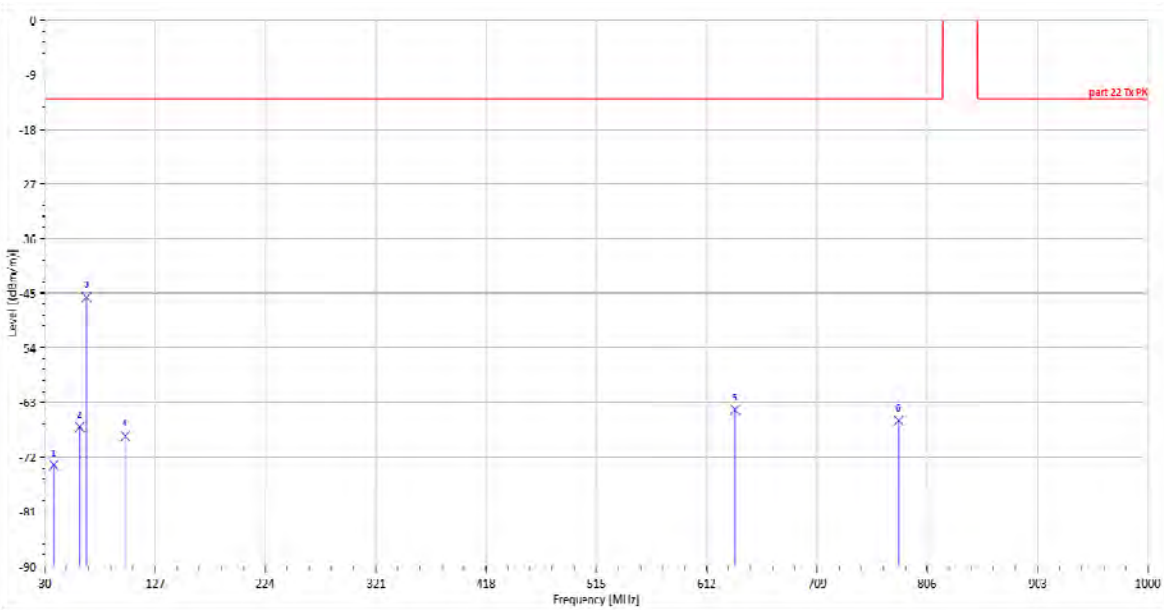
ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
37.76	S	-73.33	-56.70	-15.92	-0.72	-13.00	-60.33
61.04	S	-67.08	-63.08	-3.05	-0.95	-13.00	-54.08
66.86	S	-45.67	-42.33	-2.33	-1.01	-13.00	-32.67
100.81	S	-68.61	-64.05	-3.36	-1.20	-13.00	-55.61
637.22	S	-64.25	-65.78	4.54	-3.02	-13.00	-51.25
780.78	S	-66.01	-67.93	5.20	-3.28	-13.00	-53.01

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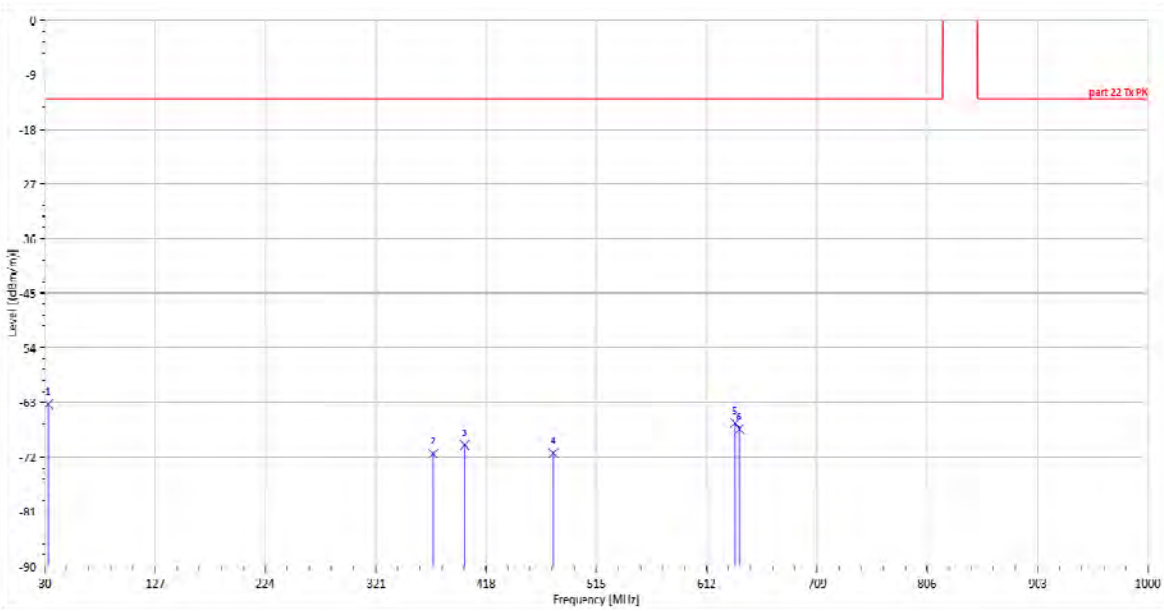
ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-63.37	-42.69	-19.97	-0.70	-13.00	-50.37
371.44	S	-71.47	-72.43	3.34	-2.37	-13.00	-58.47
399.57	S	-70.06	-70.96	3.20	-2.30	-13.00	-57.06
477.17	S	-71.38	-72.56	3.85	-2.67	-13.00	-58.38
637.22	S	-66.45	-67.97	4.54	-3.02	-13.00	-53.45
641.10	S	-67.40	-68.72	4.57	-3.25	-13.00	-54.40

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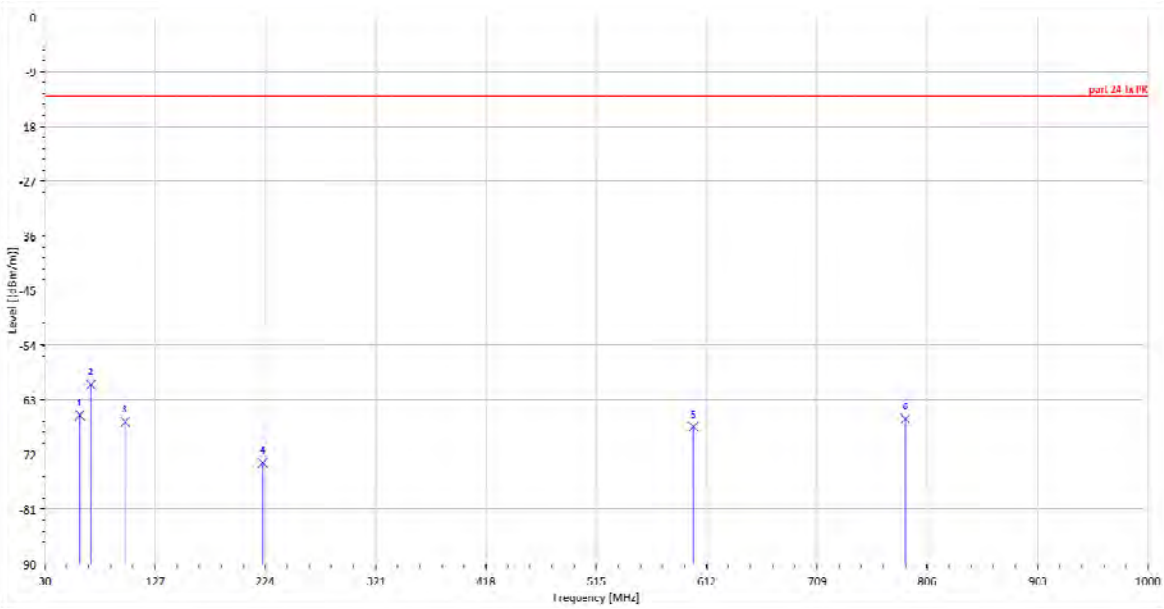
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
61.04	S	-65.50	-63.65	-0.90	-0.95	-13.00	-52.49
70.74	S	-60.50	-59.74	0.23	-0.99	-13.00	-47.49
100.81	S	-66.60	-64.19	-1.21	-1.20	-13.00	-53.59
222.06	S	-73.35	-77.63	6.07	-1.79	-13.00	-60.34
600.36	S	-67.42	-70.94	6.47	-2.95	-13.00	-54.41
786.60	S	-66.08	-70.11	7.35	-3.33	-13.00	-53.07

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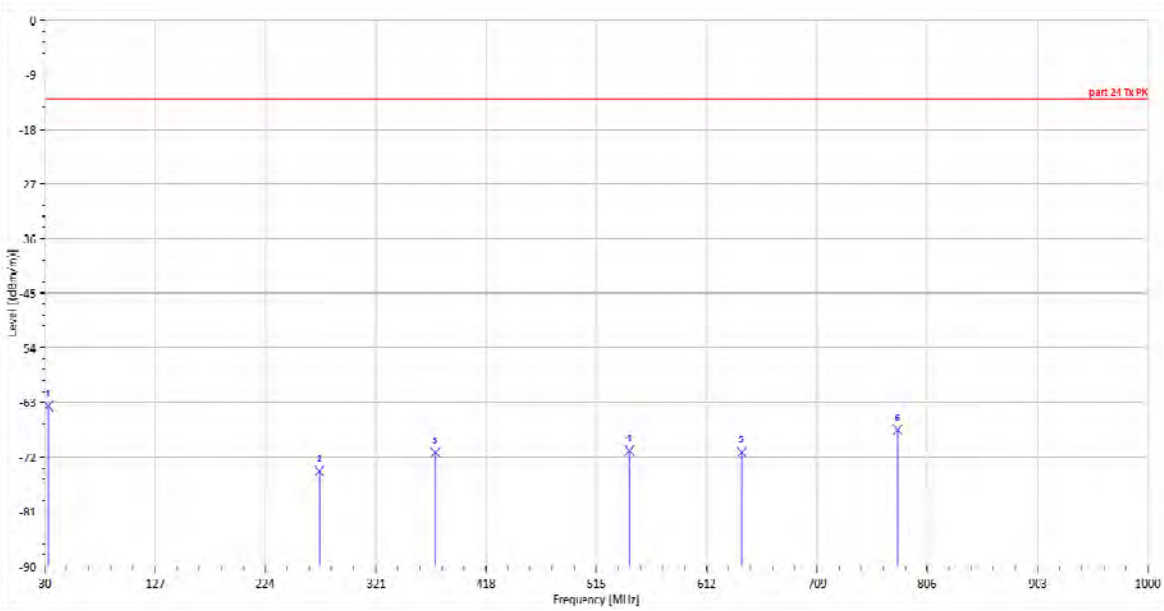
ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-63.64	-45.11	-17.82	-0.70	-13.00	-50.63
271.53	S	-74.31	-77.60	5.27	-1.98	-13.00	-61.30
373.38	S	-71.25	-74.39	5.48	-2.34	-13.00	-58.24
544.10	S	-70.96	-74.14	6.13	-2.95	-13.00	-57.95
643.04	S	-71.22	-74.85	6.73	-3.10	-13.00	-58.21
779.81	S	-67.56	-71.62	7.35	-3.28	-13.00	-54.55

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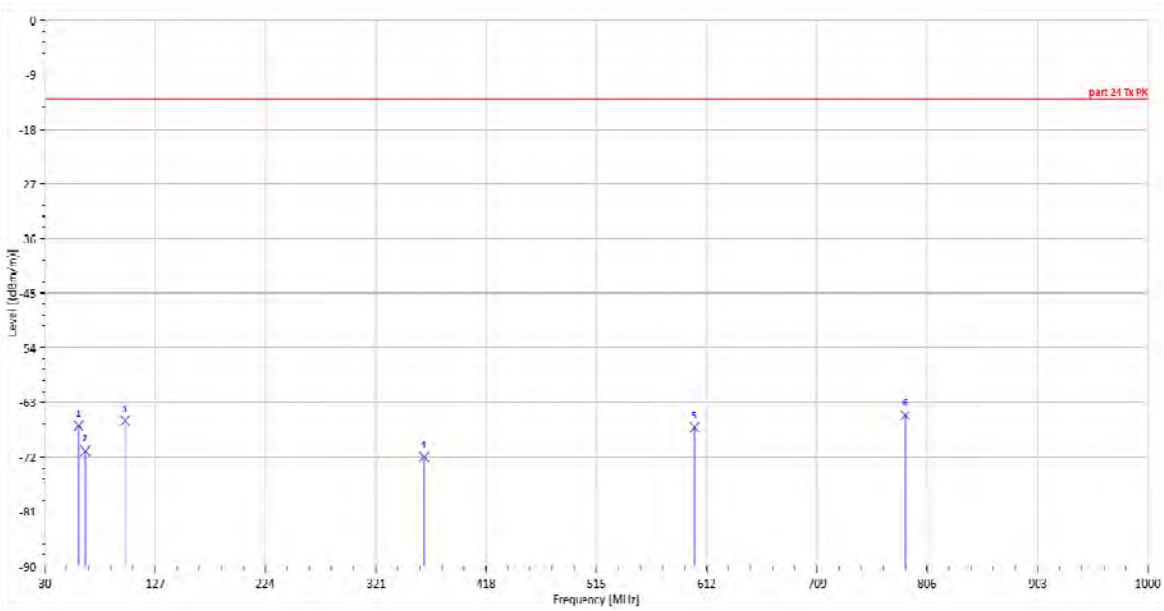
ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
60.07	S	-66.88	-64.89	-1.02	-0.96	-13.00	-53.87
65.89	S	-71.03	-69.74	-0.30	-0.99	-13.00	-58.02
100.81	S	-66.05	-63.64	-1.21	-1.20	-13.00	-53.04
363.68	S	-72.02	-75.23	5.52	-2.32	-13.00	-59.01
601.33	S	-67.14	-70.49	6.48	-3.13	-13.00	-54.13
786.60	S	-65.14	-69.16	7.35	-3.33	-13.00	-52.13

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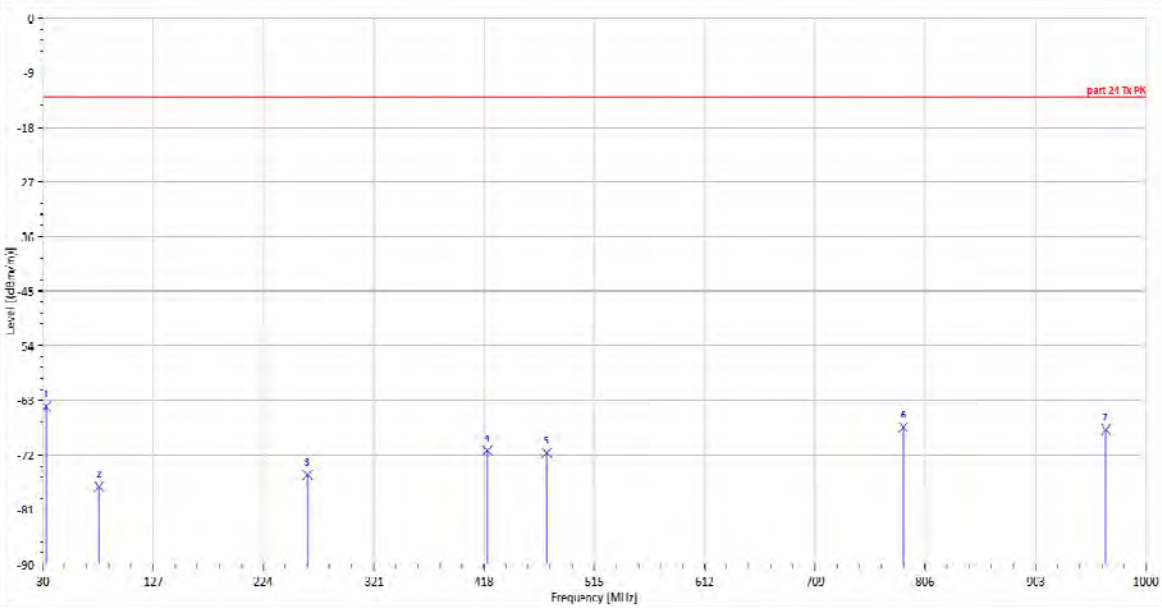
ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-64.07	-45.55	-17.82	-0.70	-13.00	-51.06
79.47	S	-77.22	-76.63	0.46	-1.04	-13.00	-64.21
262.80	S	-75.30	-77.83	4.50	-1.97	-13.00	-62.29
420.91	S	-71.26	-74.17	5.53	-2.62	-13.00	-58.25
473.29	S	-71.67	-75.07	5.97	-2.56	-13.00	-58.66
786.60	S	-67.45	-71.48	7.35	-3.33	-13.00	-54.44
965.08	S	-67.83	-71.54	7.61	-3.89	-13.00	-54.82

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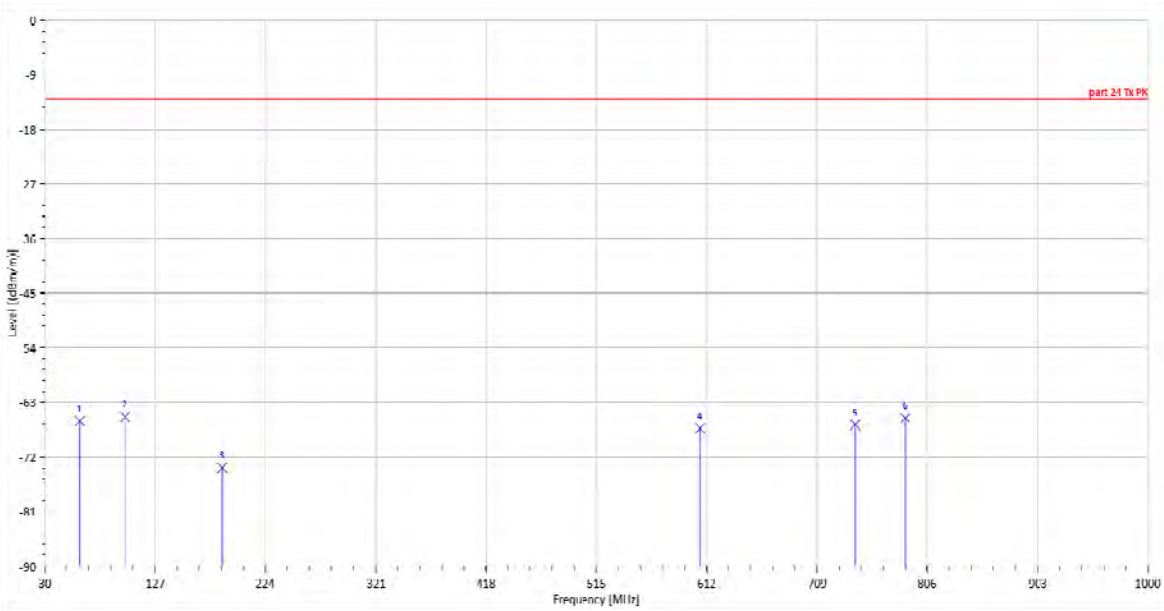
ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
61.04	S	-66.13	-64.28	-0.90	-0.95	-13.00	-53.12
100.81	S	-65.44	-63.02	-1.21	-1.20	-13.00	-52.43
186.17	S	-73.82	-78.26	6.11	-1.67	-13.00	-60.81
606.18	S	-67.31	-70.93	6.51	-2.89	-13.00	-54.30
742.95	S	-66.72	-70.66	7.30	-3.36	-13.00	-53.71
786.60	S	-65.61	-69.63	7.35	-3.33	-13.00	-52.60

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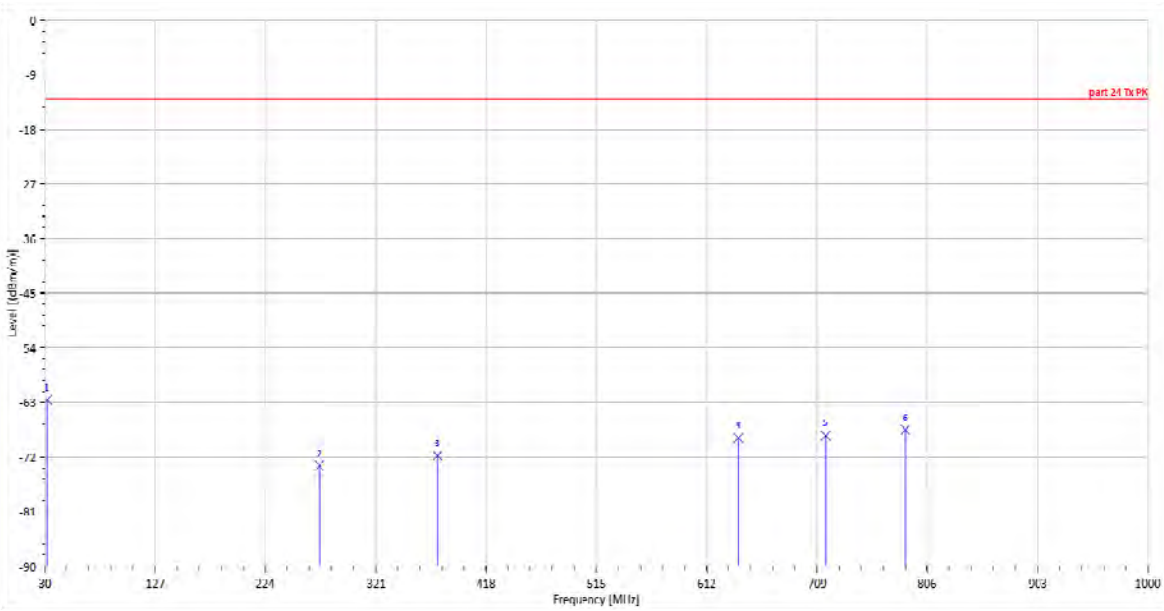
ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-62.61	-43.26	-18.67	-0.69	-13.00	-49.60
271.53	S	-73.45	-76.74	5.27	-1.98	-13.00	-60.44
375.32	S	-71.82	-74.93	5.47	-2.35	-13.00	-58.81
640.13	S	-68.89	-72.48	6.71	-3.12	-13.00	-55.88
716.76	S	-68.49	-72.33	7.24	-3.40	-13.00	-55.48
786.60	S	-67.56	-71.58	7.35	-3.33	-13.00	-54.55

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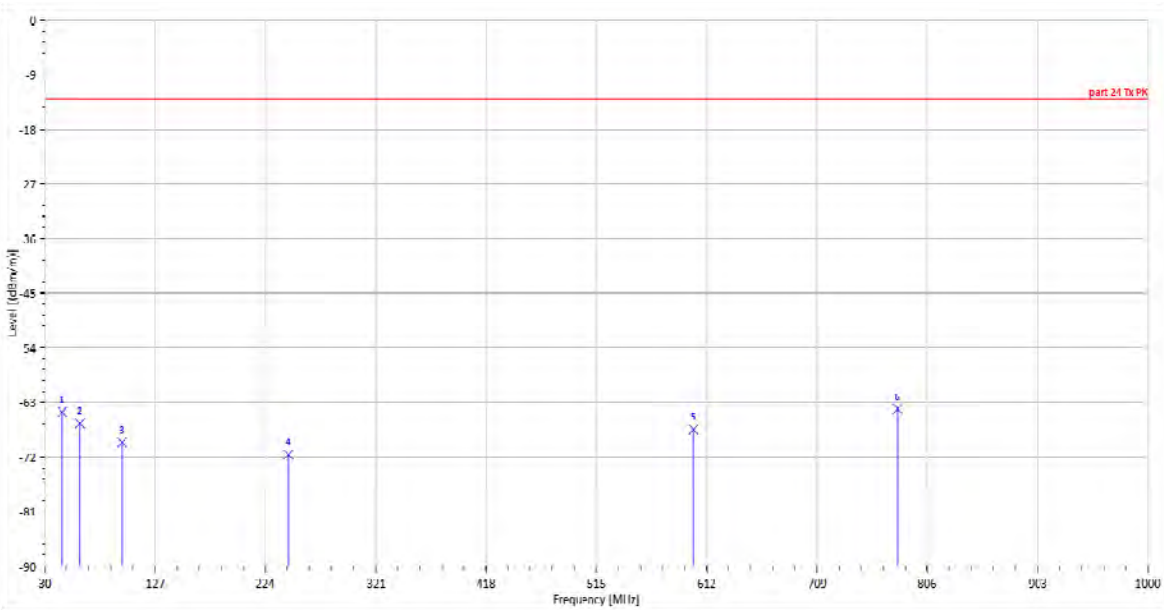
Radiated Spurious Emission Measurement Result: WCDMA II Mode

ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
45.52	S	-64.60	-56.01	-7.81	-0.78	-13.00	-51.59
61.04	S	-66.53	-64.68	-0.90	-0.95	-13.00	-53.52
97.90	S	-69.64	-67.49	-0.96	-1.19	-13.00	-56.63
244.37	S	-71.62	-74.99	5.16	-1.79	-13.00	-58.61
600.36	S	-67.51	-71.03	6.47	-2.95	-13.00	-54.50
779.81	S	-64.11	-68.18	7.35	-3.28	-13.00	-51.10

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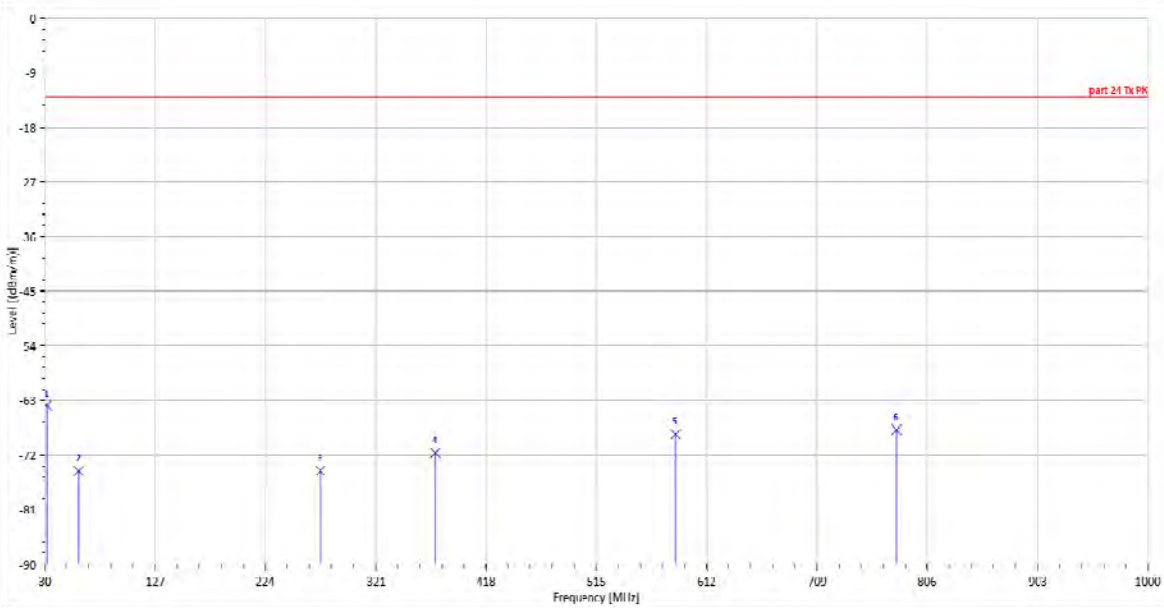
ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-63.85	-44.49	-18.67	-0.69	-13.00	-50.84
60.07	S	-74.66	-72.68	-1.02	-0.96	-13.00	-61.65
272.50	S	-74.62	-77.93	5.29	-1.98	-13.00	-61.61
373.38	S	-71.67	-74.81	5.48	-2.34	-13.00	-58.66
584.84	S	-68.60	-71.97	6.36	-3.00	-13.00	-55.59
778.84	S	-67.88	-71.97	7.34	-3.26	-13.00	-54.87

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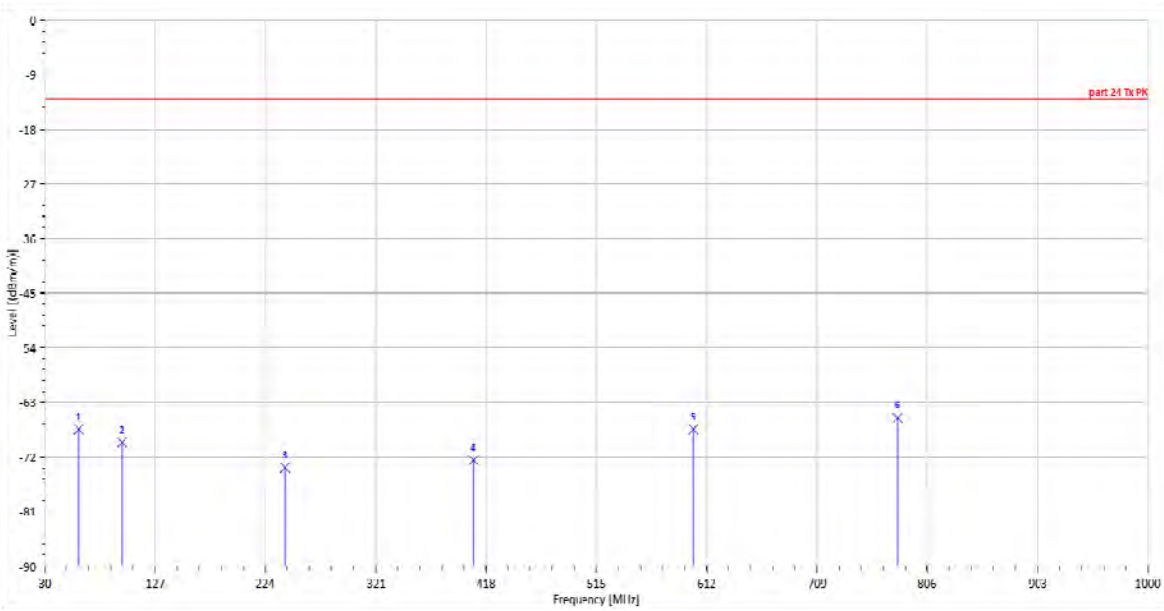
ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
60.07	S	-67.46	-65.48	-1.02	-0.96	-13.00	-54.45
97.90	S	-69.64	-67.49	-0.96	-1.19	-13.00	-56.63
241.46	S	-73.76	-77.15	5.26	-1.87	-13.00	-60.75
407.33	S	-72.58	-75.62	5.41	-2.37	-13.00	-59.57
600.36	S	-67.47	-70.99	6.47	-2.95	-13.00	-54.46
779.81	S	-65.60	-69.67	7.35	-3.28	-13.00	-52.59

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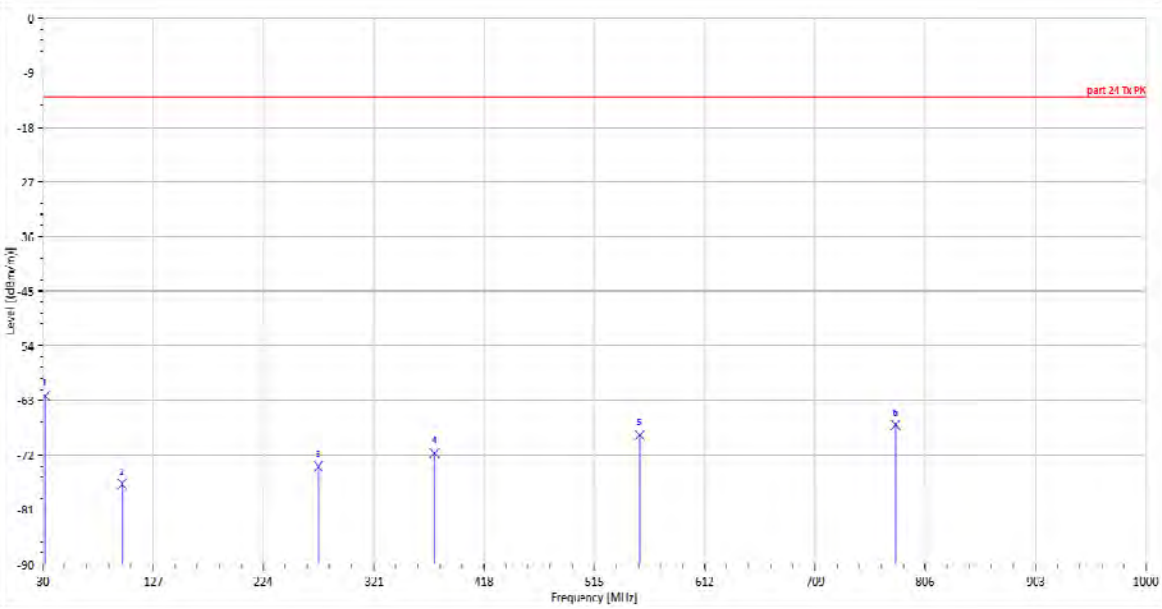
ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-62.30	-42.94	-18.67	-0.69	-13.00	-49.29
99.84	S	-76.79	-74.42	-1.17	-1.20	-13.00	-63.78
272.50	S	-73.96	-77.27	5.29	-1.98	-13.00	-60.95
374.35	S	-71.74	-74.86	5.47	-2.36	-13.00	-58.73
554.77	S	-68.76	-72.01	6.15	-2.90	-13.00	-55.75
779.81	S	-67.05	-71.12	7.35	-3.28	-13.00	-54.04

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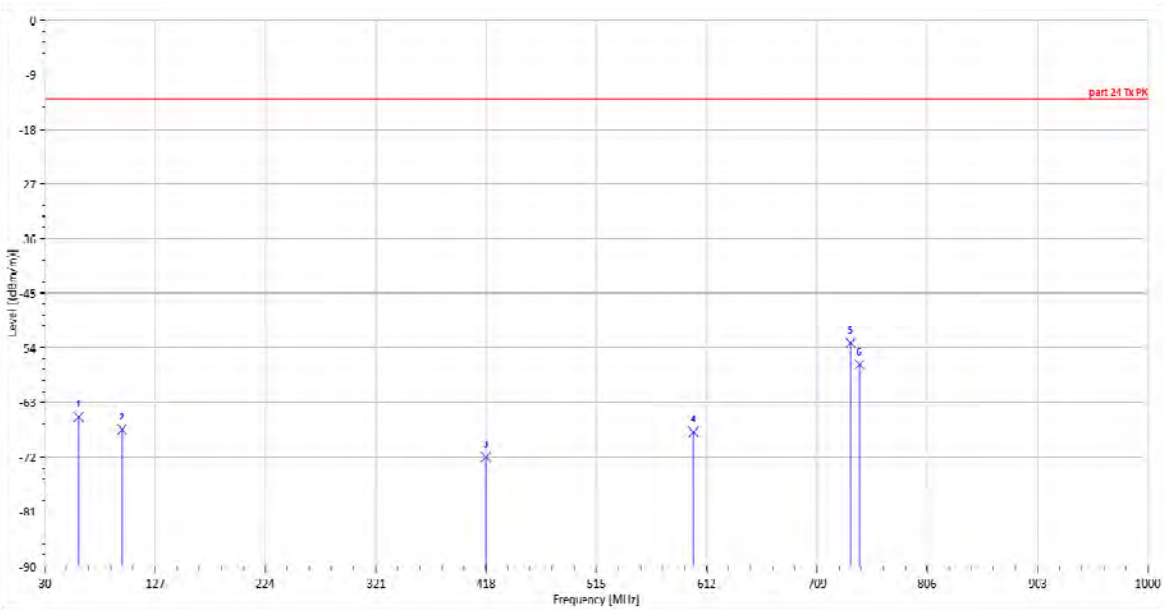
ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
60.07	S	-65.43	-63.45	-1.02	-0.96	-13.00	-52.42
97.90	S	-67.53	-65.37	-0.96	-1.19	-13.00	-54.52
418.00	S	-72.03	-75.20	5.50	-2.33	-13.00	-59.02
600.36	S	-67.92	-71.44	6.47	-2.95	-13.00	-54.91
739.07	S	-53.23	-57.18	7.29	-3.34	-13.00	-40.22
746.83	S	-56.80	-60.68	7.30	-3.43	-13.00	-43.79

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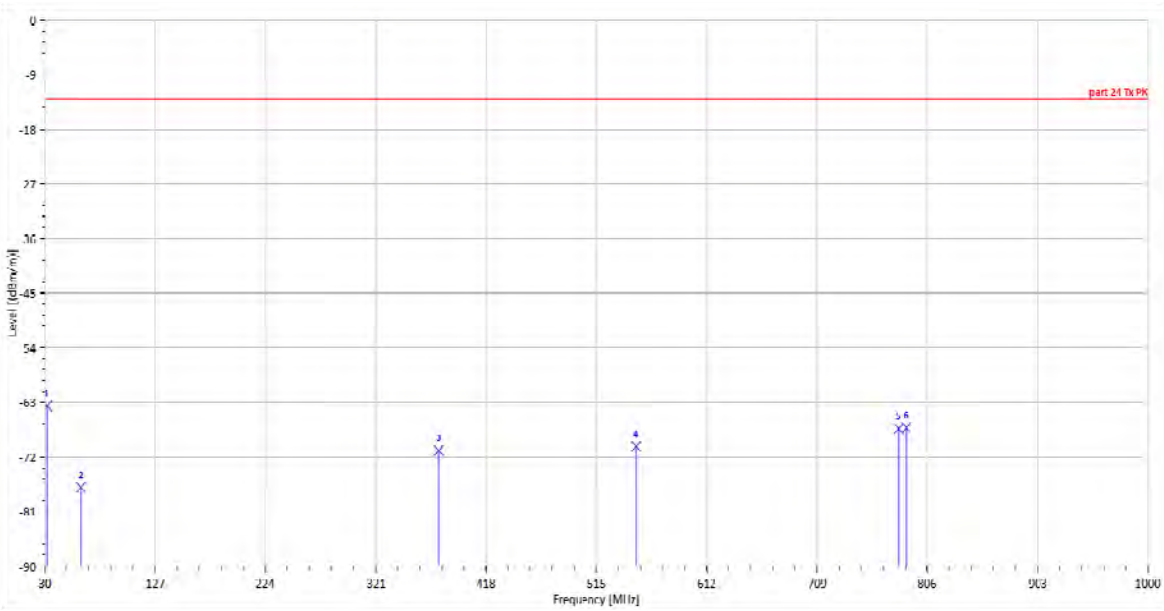
ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-63.62	-44.26	-18.67	-0.69	-13.00	-50.61
62.01	S	-77.03	-75.30	-0.78	-0.95	-13.00	-64.02
376.29	S	-70.94	-74.09	5.46	-2.32	-13.00	-57.93
549.92	S	-70.28	-73.72	6.12	-2.68	-13.00	-57.27
780.78	S	-67.36	-71.43	7.35	-3.28	-13.00	-54.35
787.57	S	-67.23	-71.24	7.36	-3.34	-13.00	-54.22

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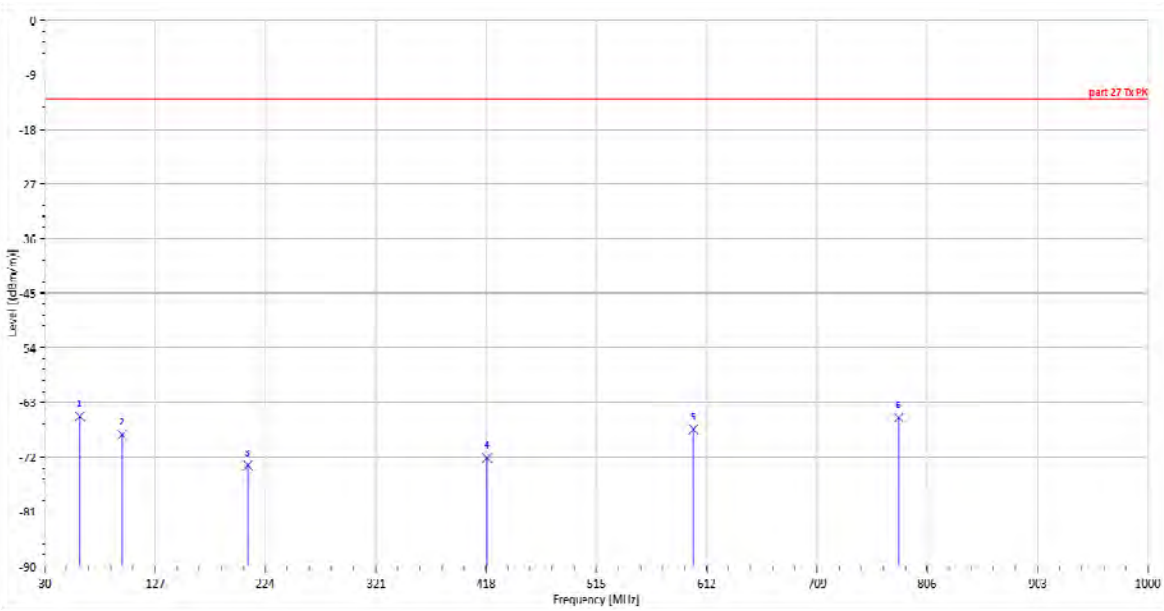
Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
61.04	S	-65.32	-63.47	-0.90	-0.95	-13.00	-52.31
97.90	S	-68.34	-66.19	-0.96	-1.19	-13.00	-55.33
208.48	S	-73.38	-77.77	6.12	-1.73	-13.00	-60.37
418.97	S	-72.19	-75.21	5.51	-2.49	-13.00	-59.18
600.36	S	-67.48	-71.00	6.47	-2.95	-13.00	-54.47
780.78	S	-65.55	-69.62	7.35	-3.28	-13.00	-52.54

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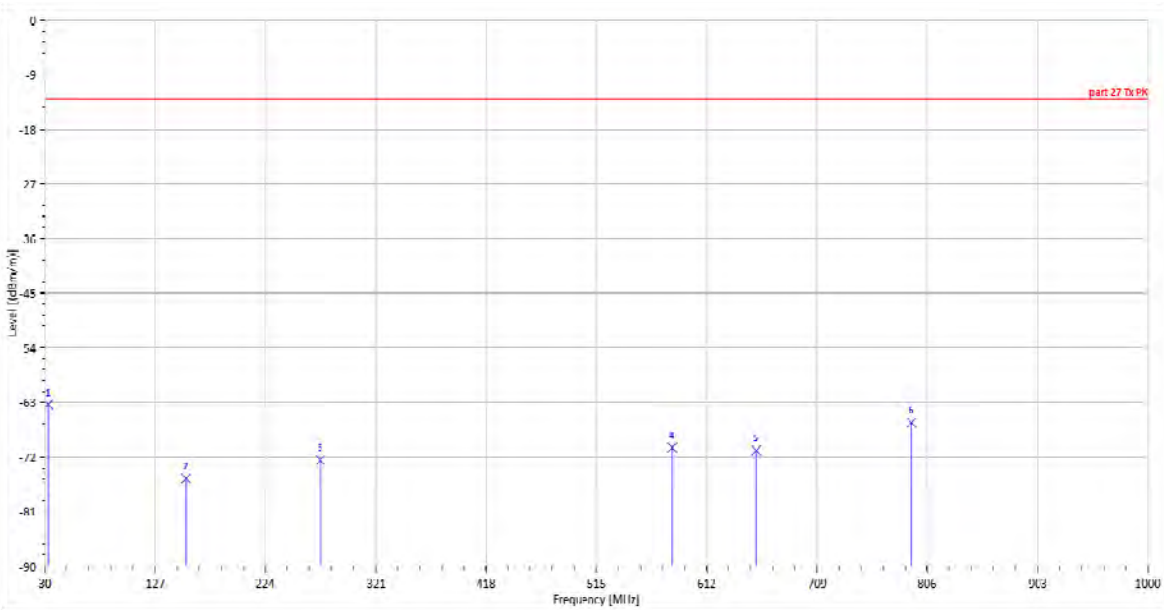
ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-63.41	-44.89	-17.82	-0.70	-13.00	-50.40
154.16	S	-75.59	-76.95	2.87	-1.51	-13.00	-62.58
272.50	S	-72.57	-75.88	5.29	-1.98	-13.00	-59.56
581.93	S	-70.49	-73.96	6.34	-2.87	-13.00	-57.48
655.65	S	-70.96	-74.74	6.82	-3.04	-13.00	-57.95
792.42	S	-66.40	-70.24	7.36	-3.52	-13.00	-53.39

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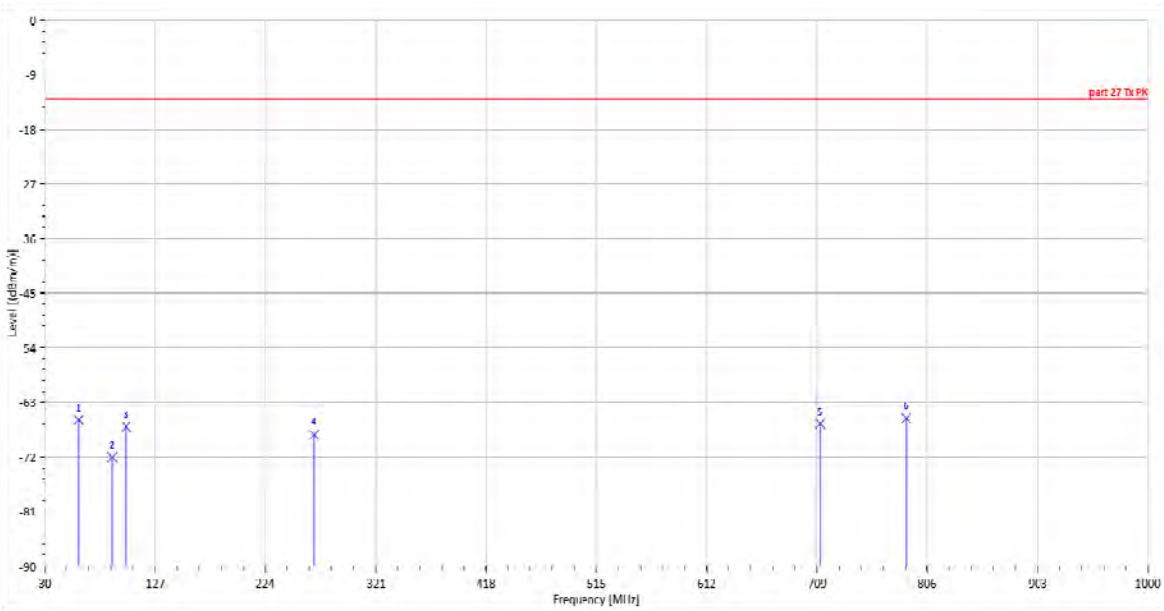
ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
60.07	S	-65.89	-63.91	-1.02	-0.96	-13.00	-52.88
89.17	S	-72.07	-70.88	-0.06	-1.13	-13.00	-59.06
101.78	S	-67.02	-64.57	-1.24	-1.21	-13.00	-54.01
266.68	S	-68.35	-71.25	4.90	-1.99	-13.00	-55.34
711.91	S	-66.59	-70.73	7.23	-3.09	-13.00	-53.58
787.57	S	-65.65	-69.66	7.36	-3.34	-13.00	-52.64

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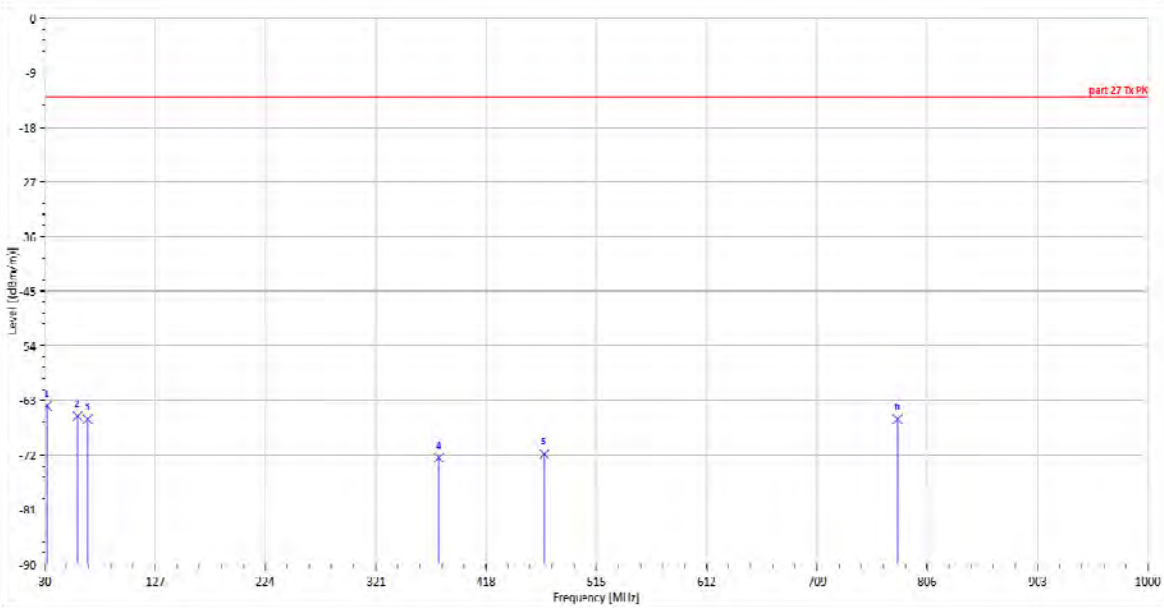
ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-63.91	-44.56	-18.67	-0.69	-13.00	-50.90
59.10	S	-65.62	-63.28	-1.39	-0.95	-13.00	-52.61
67.83	S	-66.14	-65.05	-0.06	-1.03	-13.00	-53.13
376.29	S	-72.52	-75.66	5.46	-2.32	-13.00	-59.51
469.41	S	-71.90	-75.11	5.93	-2.72	-13.00	-58.89
779.81	S	-66.13	-70.20	7.35	-3.28	-13.00	-53.12

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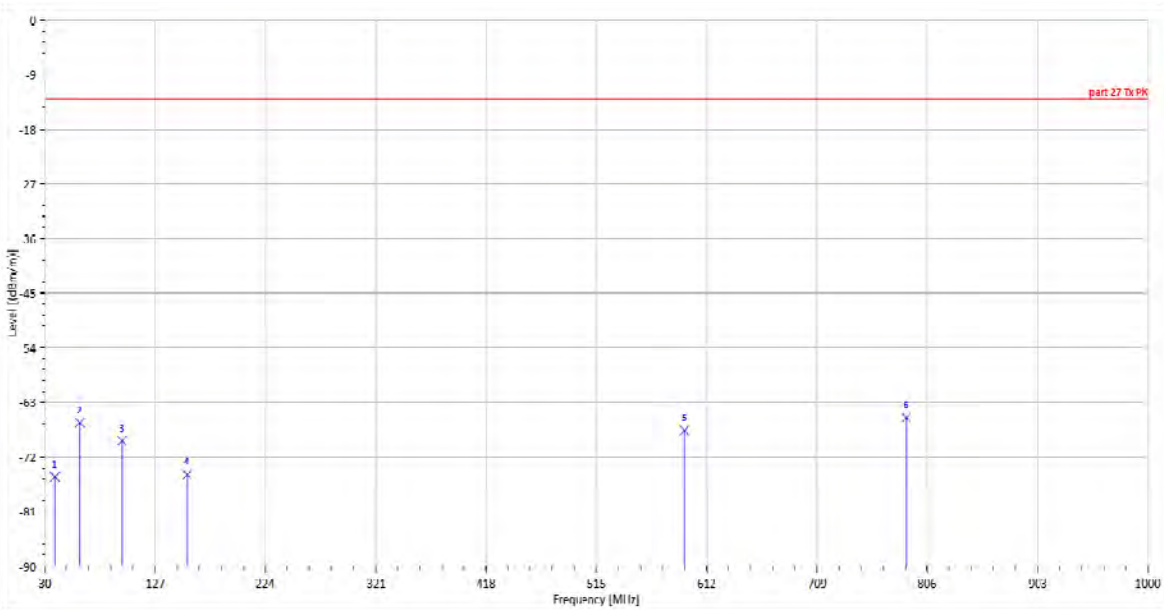
ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
38.73	S	-75.31	-61.57	-12.98	-0.76	-13.00	-62.30
61.04	S	-66.39	-64.54	-0.90	-0.95	-13.00	-53.38
97.90	S	-69.39	-67.23	-0.96	-1.19	-13.00	-56.38
155.13	S	-74.94	-76.47	2.97	-1.44	-13.00	-61.93
592.60	S	-67.66	-70.95	6.42	-3.13	-13.00	-54.65
787.57	S	-65.54	-69.56	7.36	-3.34	-13.00	-52.53

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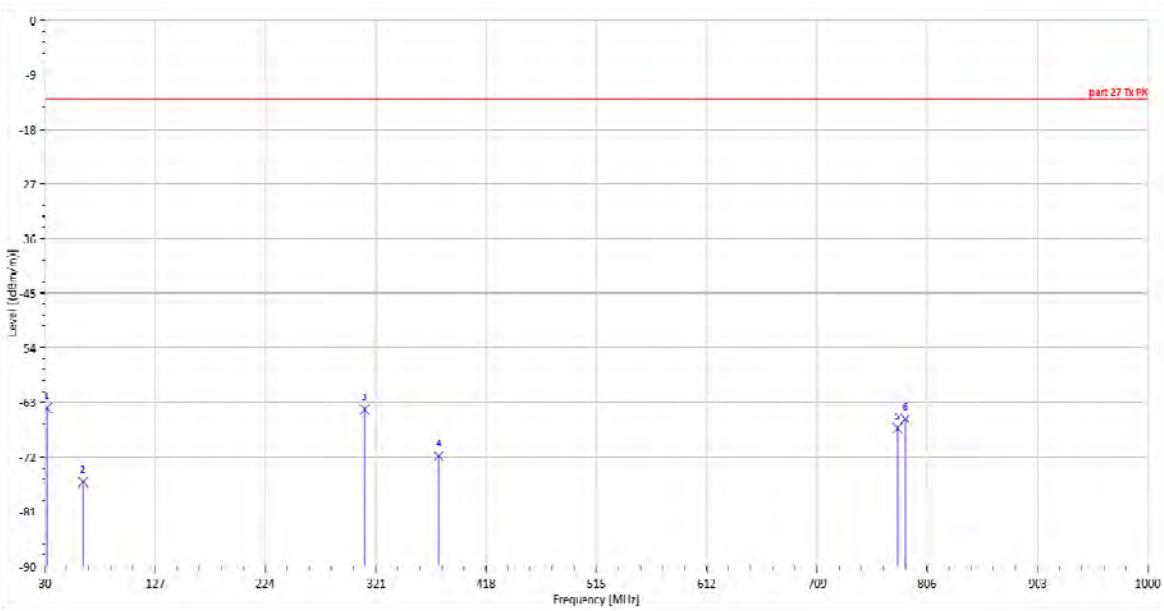
ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-63.96	-44.60	-18.67	-0.69	-13.00	-50.95
63.95	S	-76.18	-74.65	-0.54	-0.99	-13.00	-63.17
311.30	S	-64.20	-67.70	5.64	-2.14	-13.00	-51.19
376.29	S	-71.89	-75.04	5.46	-2.32	-13.00	-58.88
779.81	S	-67.26	-71.33	7.35	-3.28	-13.00	-54.25
786.60	S	-65.75	-69.77	7.35	-3.33	-13.00	-52.74

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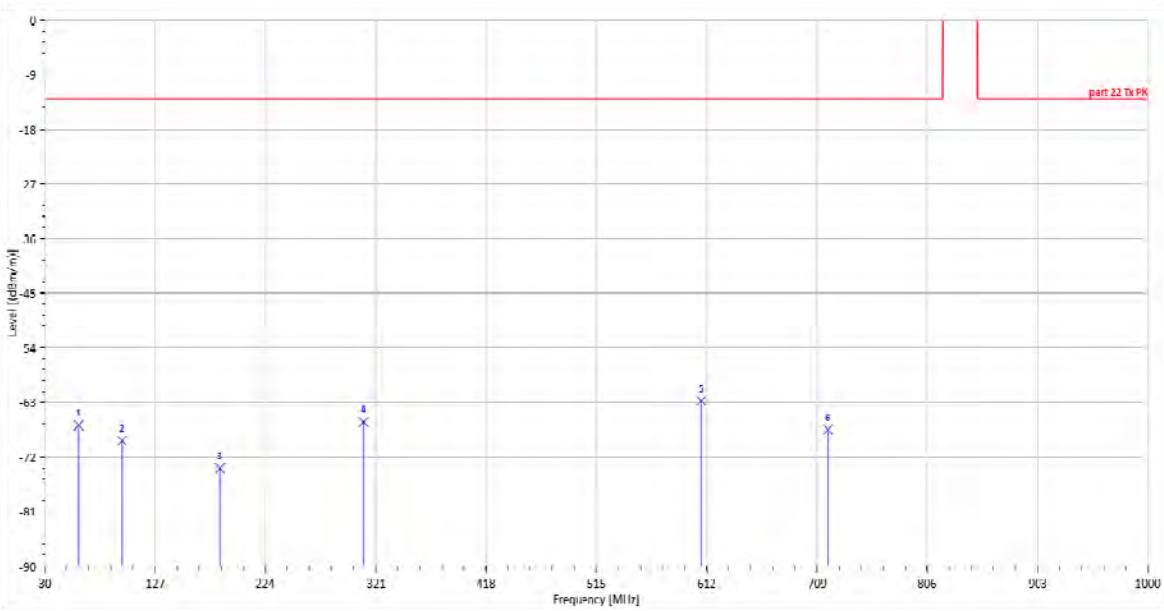
Radiated Spurious Emission Measurement Result: HSUPA V Mode

ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
60.07	S	-66.81	-62.68	-3.17	-0.96	-13.00	-53.81
97.90	S	-69.37	-65.07	-3.11	-1.19	-13.00	-56.37
184.23	S	-73.91	-76.17	3.87	-1.61	-13.00	-60.91
310.33	S	-66.29	-67.57	3.49	-2.21	-13.00	-53.29
607.15	S	-62.76	-64.32	4.36	-2.80	-13.00	-49.76
718.70	S	-67.54	-69.39	5.10	-3.25	-13.00	-54.54

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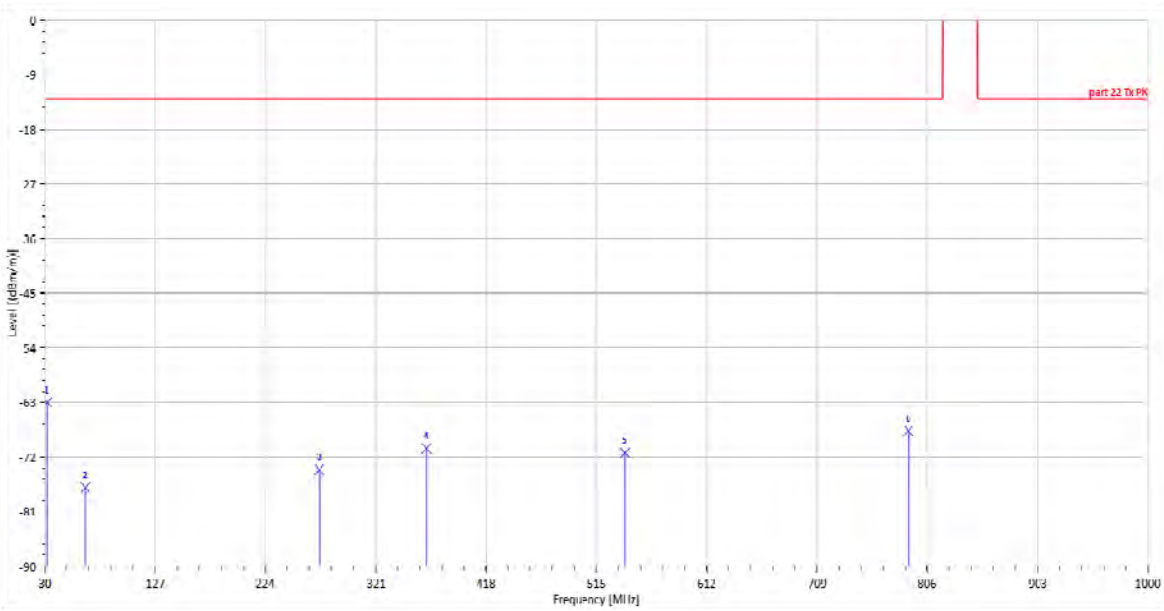
ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-63.05	-41.54	-20.82	-0.69	-13.00	-50.05
65.89	S	-77.07	-73.63	-2.45	-0.99	-13.00	-64.07
271.53	S	-74.11	-75.26	3.12	-1.98	-13.00	-61.11
365.62	S	-70.61	-71.67	3.37	-2.31	-13.00	-57.61
540.22	S	-71.32	-72.55	3.98	-2.76	-13.00	-58.32
789.51	S	-67.69	-69.62	5.21	-3.28	-13.00	-54.69

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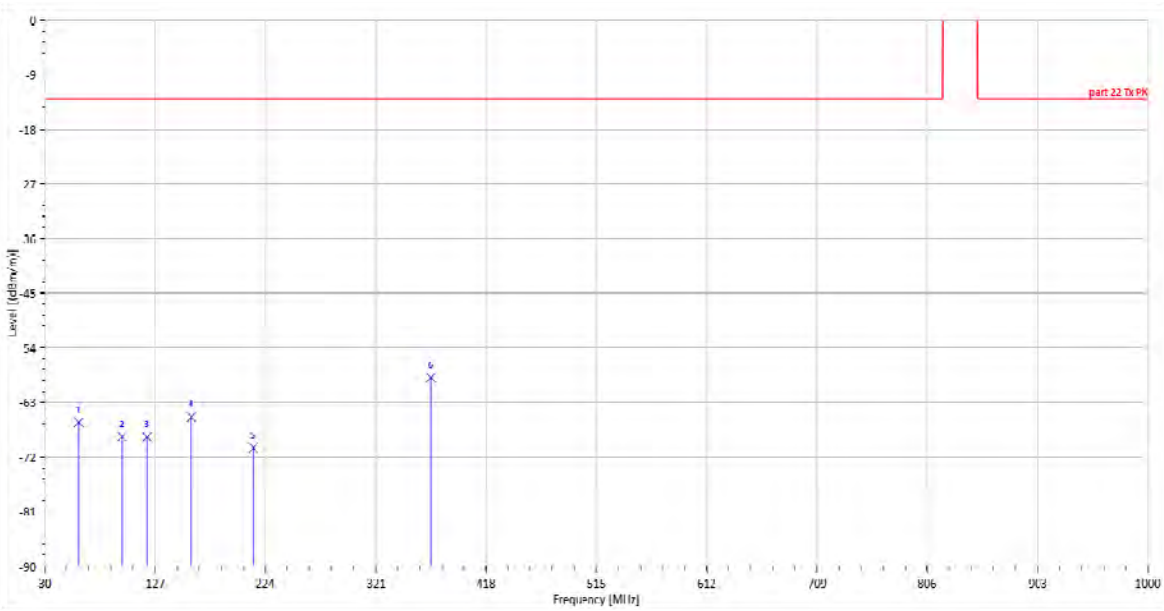
ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
60.07	S	-66.34	-62.21	-3.17	-0.96	-13.00	-53.34
97.90	S	-68.67	-64.37	-3.11	-1.19	-13.00	-55.67
120.21	S	-68.75	-64.22	-3.24	-1.29	-13.00	-55.75
159.01	S	-65.44	-65.21	1.24	-1.47	-13.00	-52.44
213.33	S	-70.52	-72.74	4.00	-1.78	-13.00	-57.52
369.50	S	-58.92	-59.94	3.35	-2.33	-13.00	-45.92

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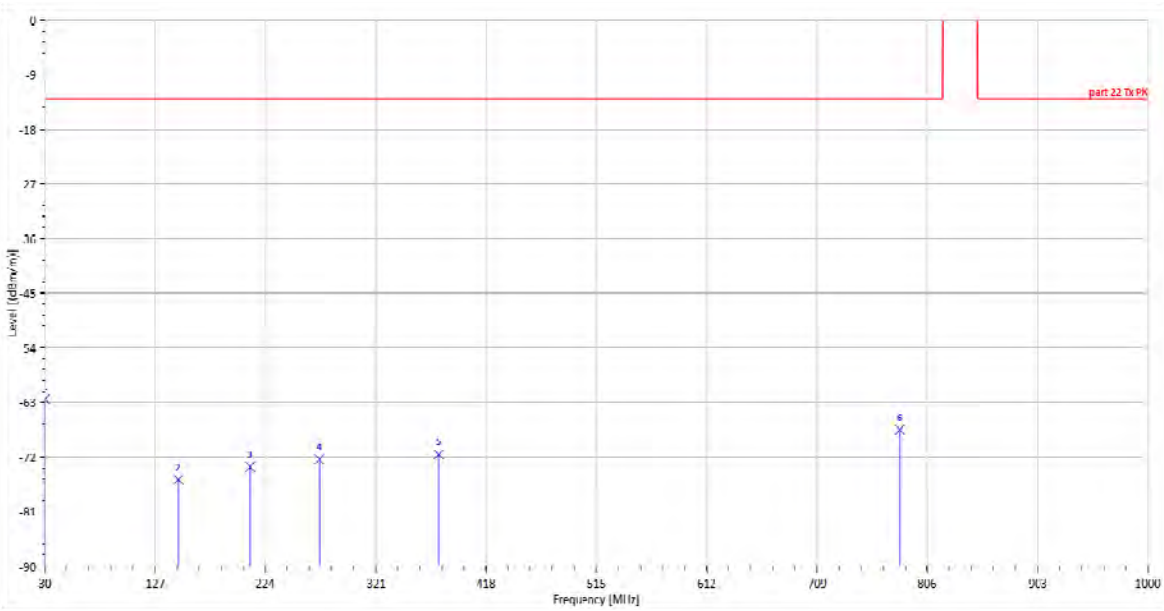
ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.00	S	-62.49	-39.35	-22.50	-0.64	-13.00	-49.49
147.37	S	-75.78	-74.25	-0.11	-1.42	-13.00	-62.78
210.42	S	-73.66	-75.91	4.00	-1.75	-13.00	-60.66
271.53	S	-72.44	-73.59	3.12	-1.98	-13.00	-59.44
376.29	S	-71.58	-72.57	3.31	-2.32	-13.00	-58.58
781.75	S	-67.55	-69.39	5.20	-3.36	-13.00	-54.55

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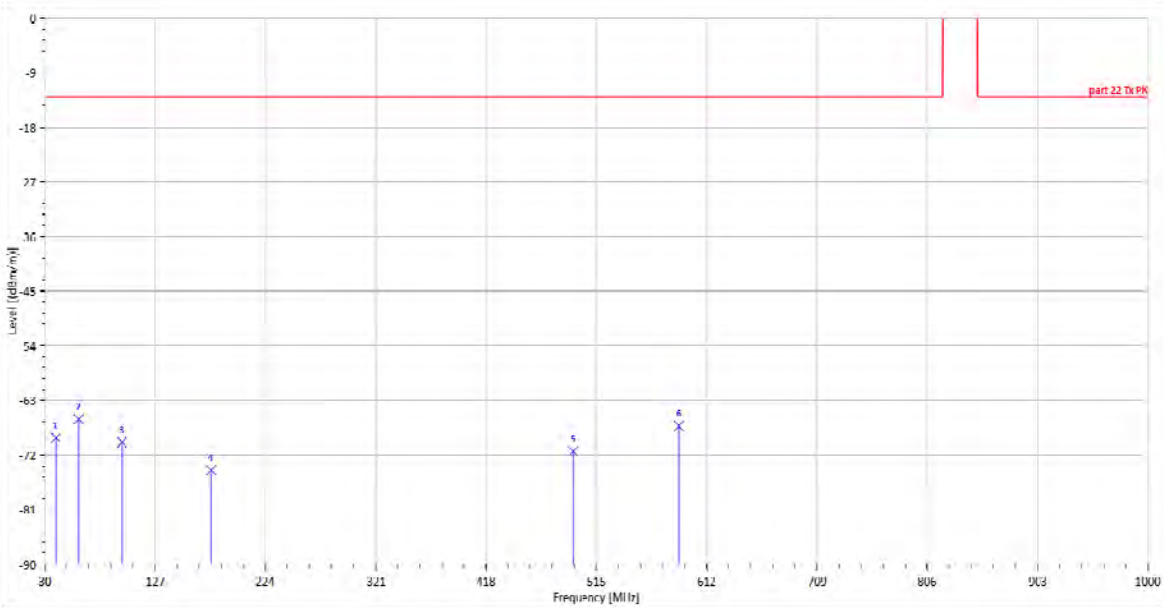
ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-69.22	-54.09	-14.34	-0.79	-13.00	-56.22
60.07	S	-66.16	-62.03	-3.17	-0.96	-13.00	-53.16
97.90	S	-69.95	-65.65	-3.11	-1.19	-13.00	-56.95
176.47	S	-74.51	-76.19	3.28	-1.60	-13.00	-61.51
494.63	S	-71.39	-72.70	3.99	-2.68	-13.00	-58.39
587.75	S	-67.26	-68.71	4.23	-2.78	-13.00	-54.26

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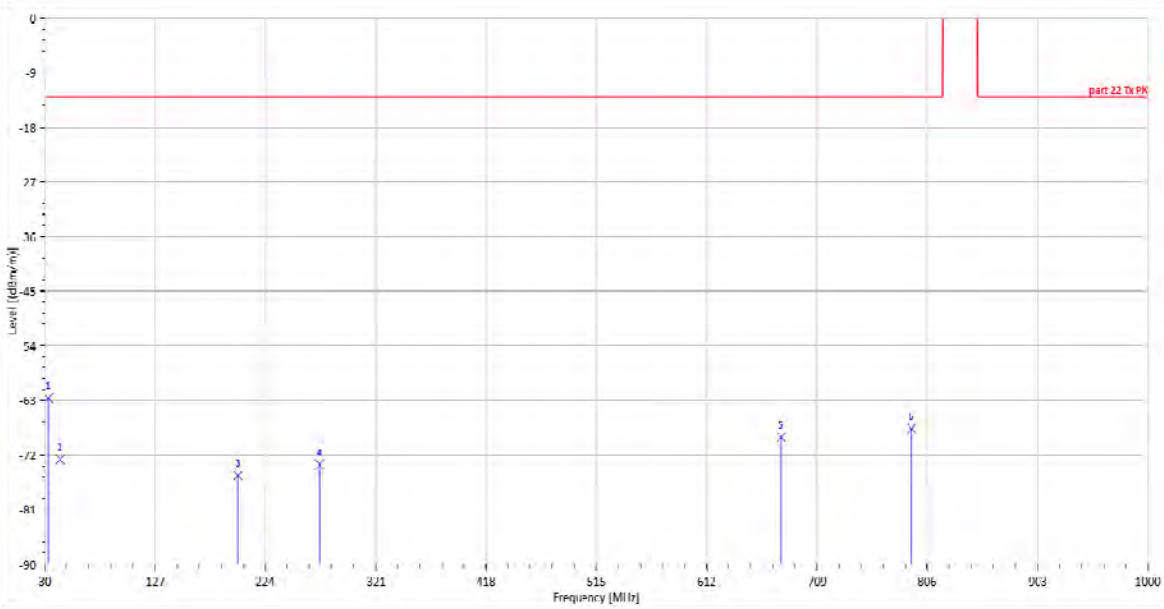
Member of SGS Group

ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-62.66	-41.99	-19.97	-0.70	-13.00	-49.66
43.58	S	-72.79	-60.64	-11.36	-0.79	-13.00	-59.79
199.75	S	-75.41	-77.52	3.79	-1.68	-13.00	-62.41
271.53	S	-73.60	-74.74	3.12	-1.98	-13.00	-60.60
677.96	S	-69.08	-70.67	4.87	-3.28	-13.00	-56.08
792.42	S	-67.68	-69.37	5.21	-3.52	-13.00	-54.68

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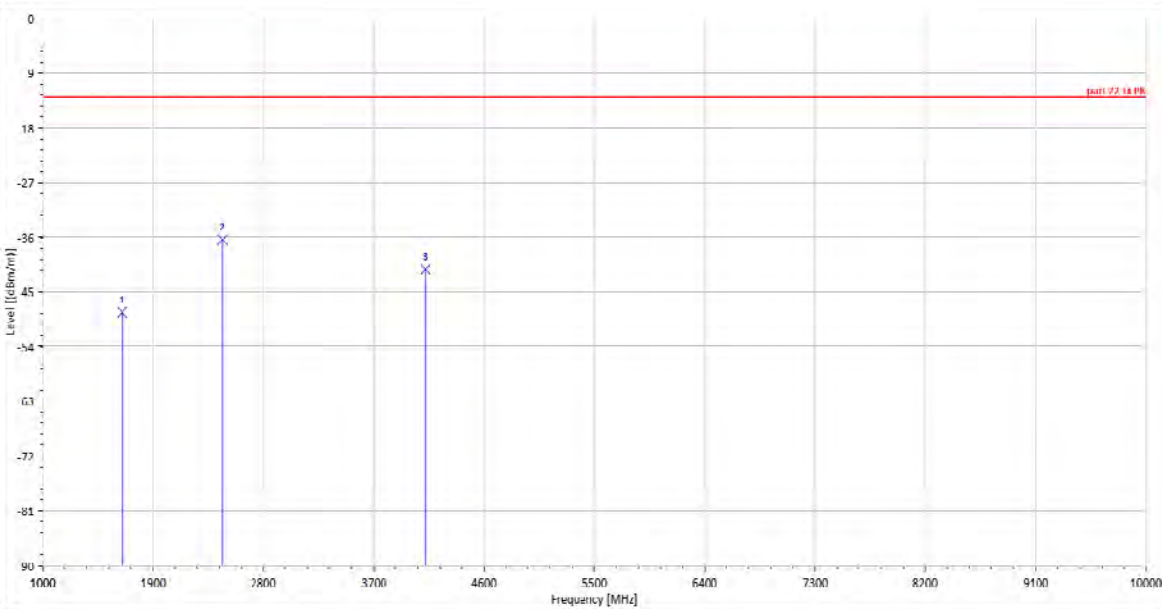
10.6. Measurement Result (Above 1GHz):

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-48.34	-46.92	3.69	-5.11	-13.00	-35.34
2472.60	H	-36.38	-34.16	3.60	-5.81	-13.00	-23.38
4121.00	H	-41.28	-40.85	6.75	-7.17	-13.00	-28.28

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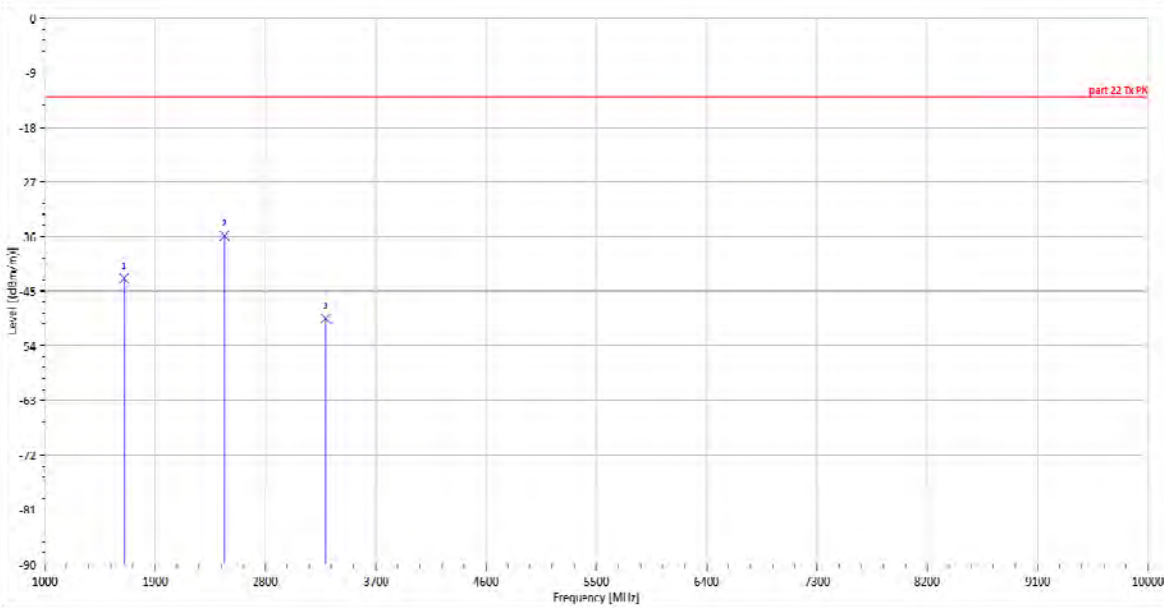
ARFCN	:CH 128	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-42.86	-41.45	3.69	-5.11	-13.00	-29.86
2472.60	H	-35.87	-33.66	3.60	-5.81	-13.00	-22.87
3296.80	H	-49.53	-48.88	5.79	-6.44	-13.00	-36.53

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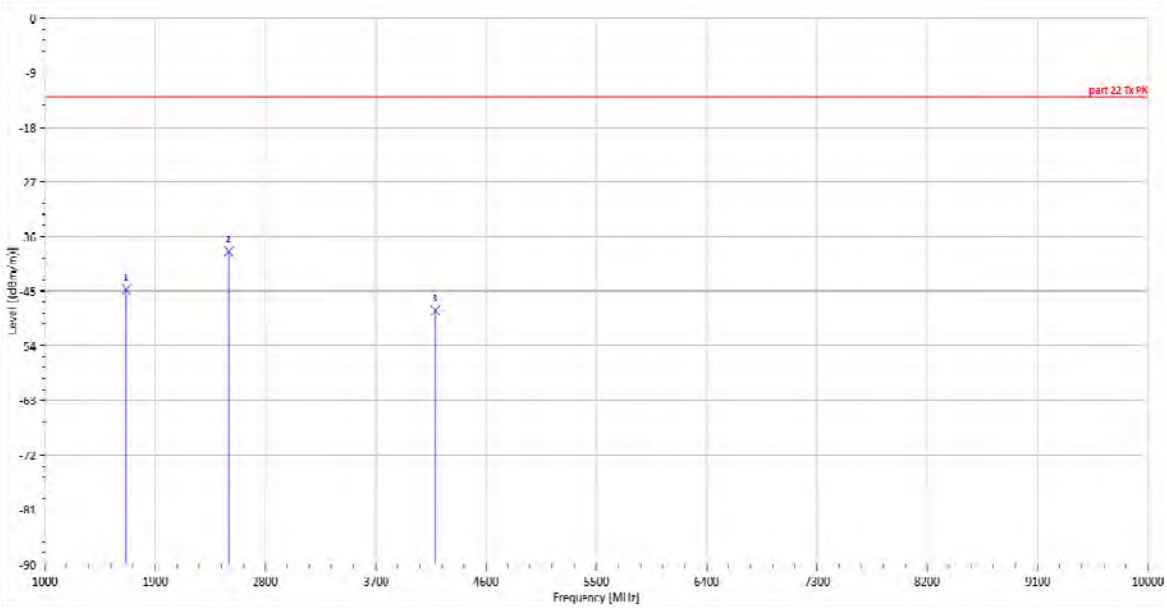
ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-44.76	-43.26	3.65	-5.15	-13.00	-31.76
2509.80	H	-38.44	-36.25	3.66	-5.85	-13.00	-25.44
4183.00	H	-48.23	-47.93	6.80	-7.10	-13.00	-35.23

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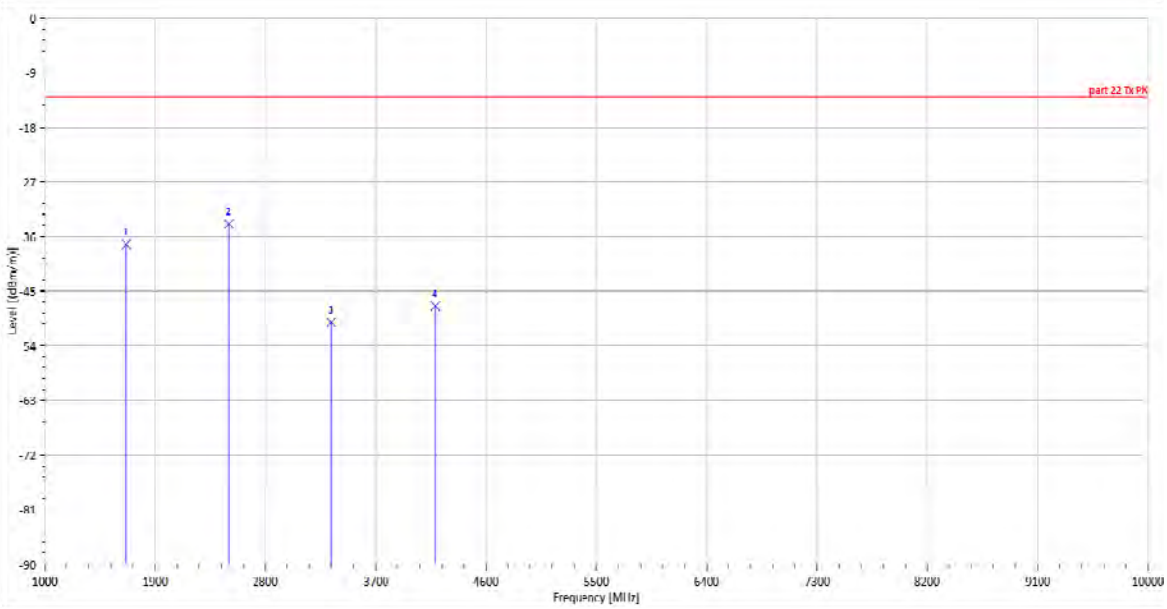
ARFCN	:CH 190	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-37.29	-35.79	3.65	-5.15	-13.00	-24.29
2509.80	H	-33.95	-31.76	3.66	-5.85	-13.00	-20.95
3346.40	H	-50.15	-49.56	5.94	-6.52	-13.00	-37.15
4183.00	H	-47.50	-47.20	6.80	-7.10	-13.00	-34.50

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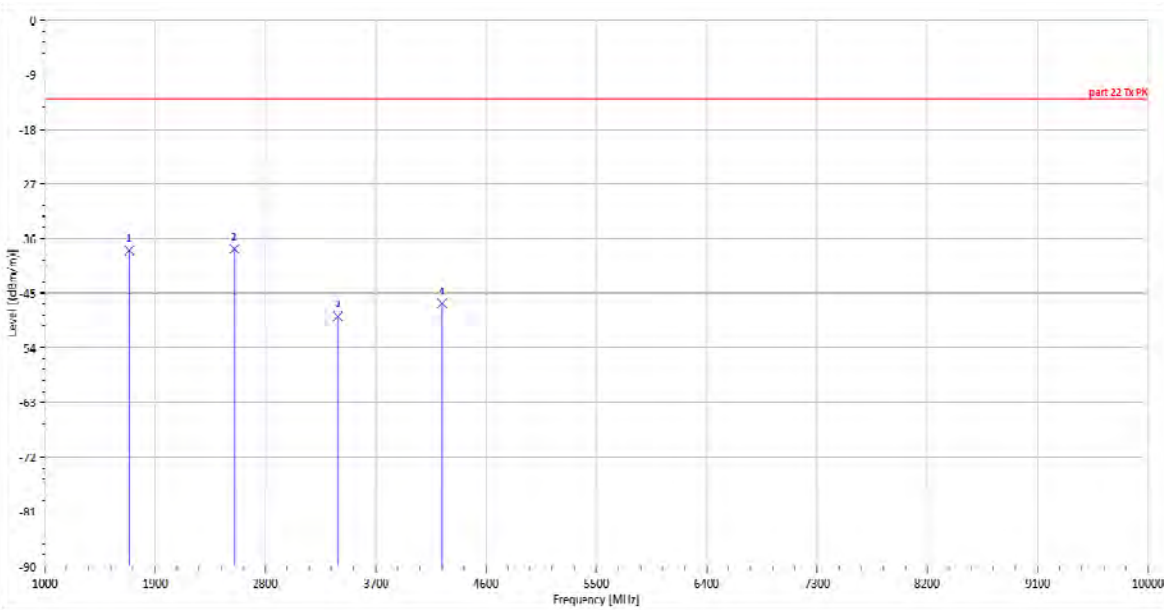
ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-38.00	-36.43	3.59	-5.16	-13.00	-25.00
2546.40	H	-37.78	-35.69	3.77	-5.85	-13.00	-24.78
3395.20	H	-48.82	-48.29	6.11	-6.64	-13.00	-35.82
4244.00	H	-46.71	-46.27	6.84	-7.29	-13.00	-33.71

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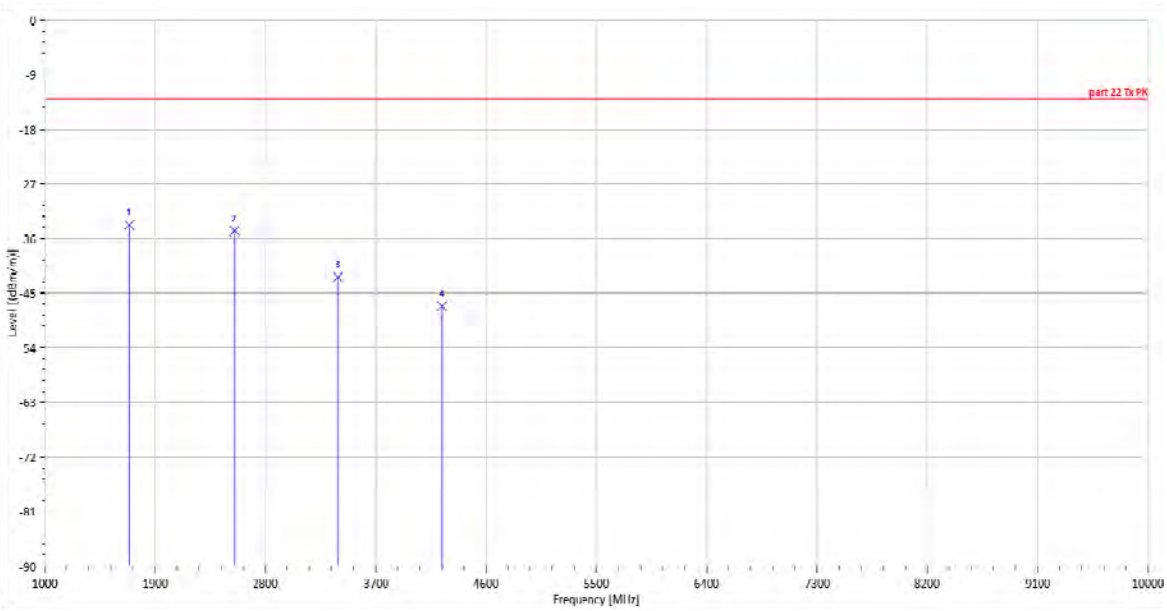
ARFCN	:CH 251	Test Date	:2015-04-09
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-33.77	-32.20	3.59	-5.16	-13.00	-20.77
2546.40	H	-34.71	-32.62	3.77	-5.85	-13.00	-21.71
3395.20	H	-42.39	-41.86	6.11	-6.64	-13.00	-29.39
4244.00	H	-47.19	-46.74	6.84	-7.29	-13.00	-34.19

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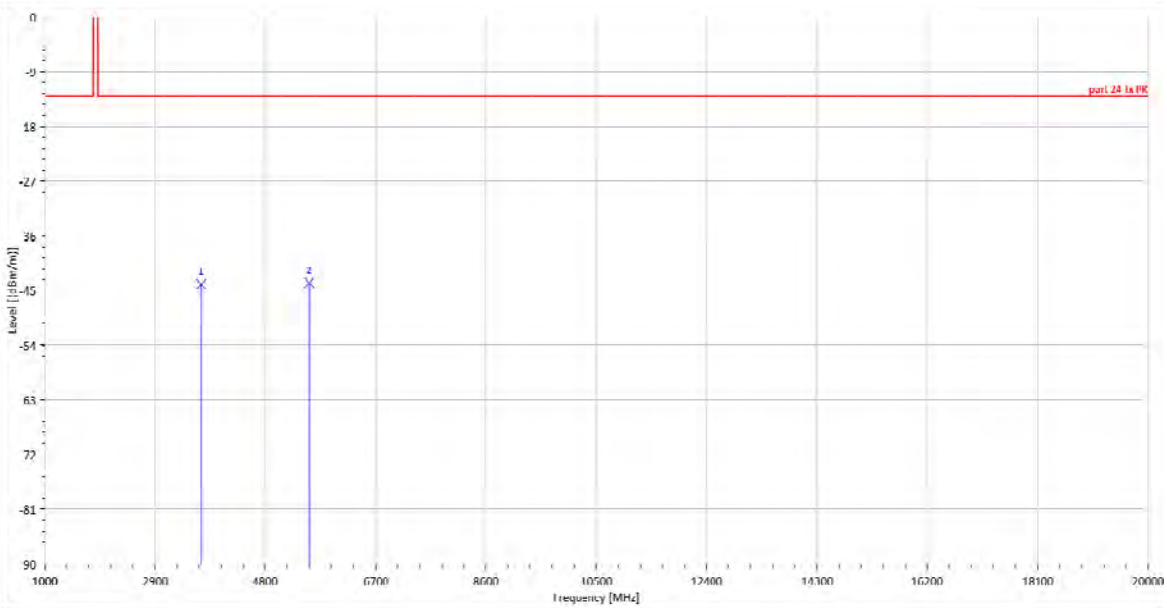
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-43.96	-45.71	8.68	-6.93	-13.00	-30.95
5550.60	H	-43.72	-46.26	10.32	-7.77	-13.00	-30.71

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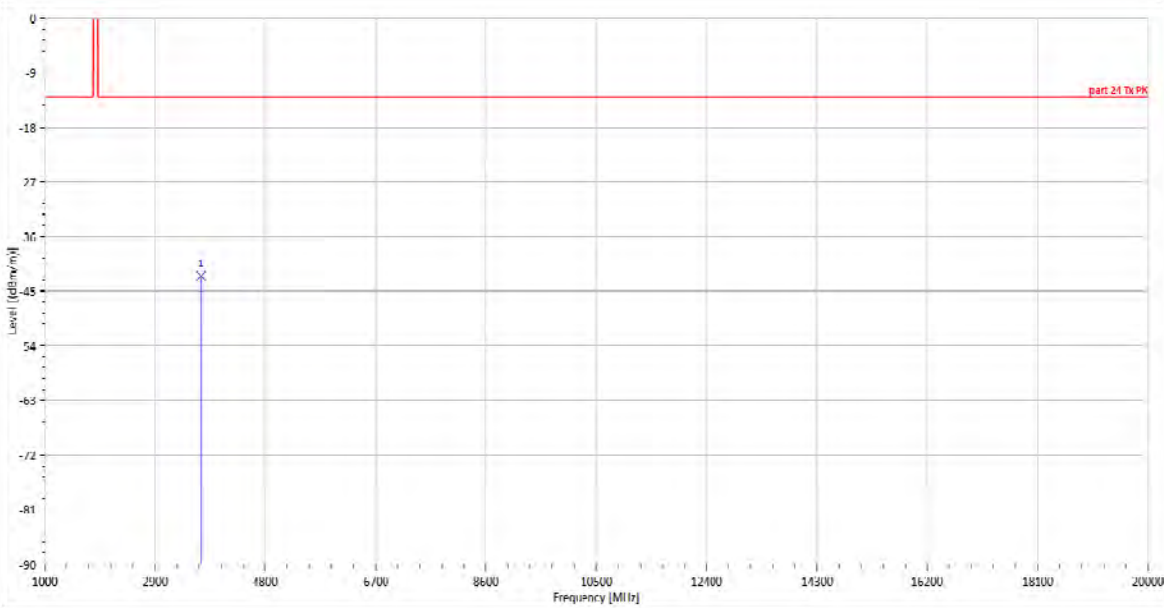
ARFCN	:CH 512	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-42.49	-44.24	8.68	-6.93	-13.00	-29.48

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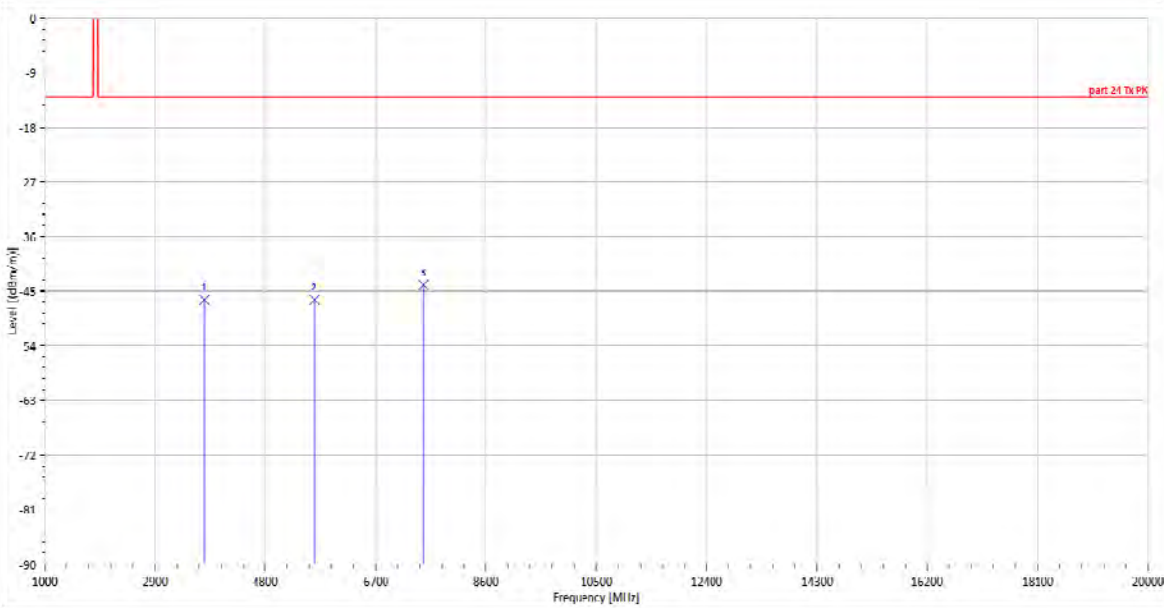
ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-46.45	-48.32	8.70	-6.83	-13.00	-33.44
5640.00	H	-46.43	-48.82	10.36	-7.97	-13.00	-33.42
7520.00	H	-43.98	-45.81	11.63	-9.80	-13.00	-30.97

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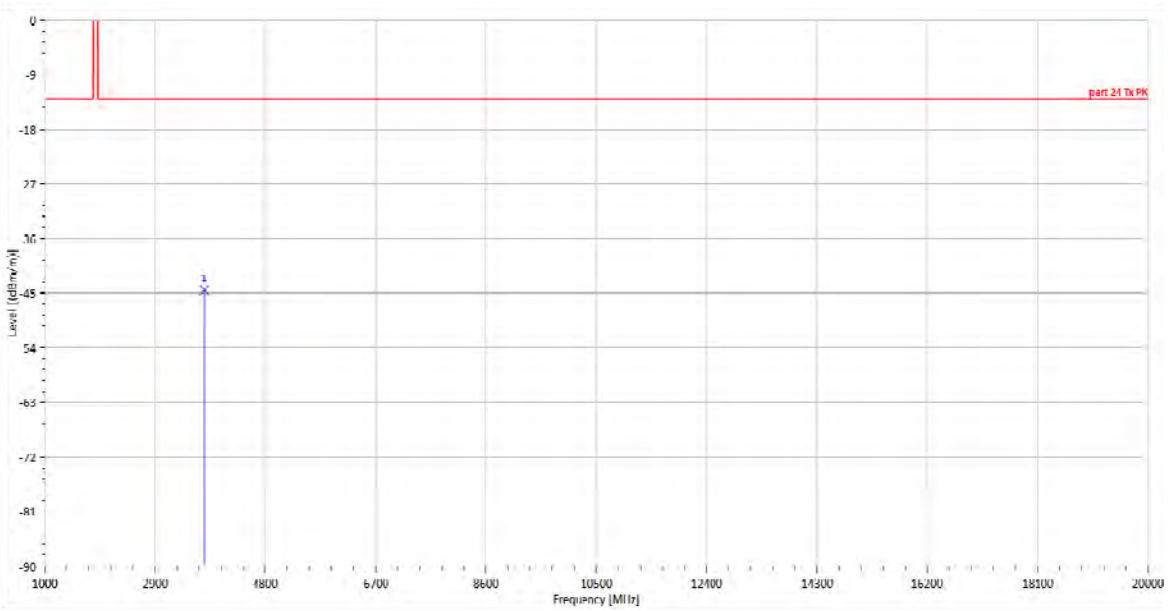
ARFCN	:CH 661	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-44.51	-46.39	8.70	-6.83	-13.00	-31.50

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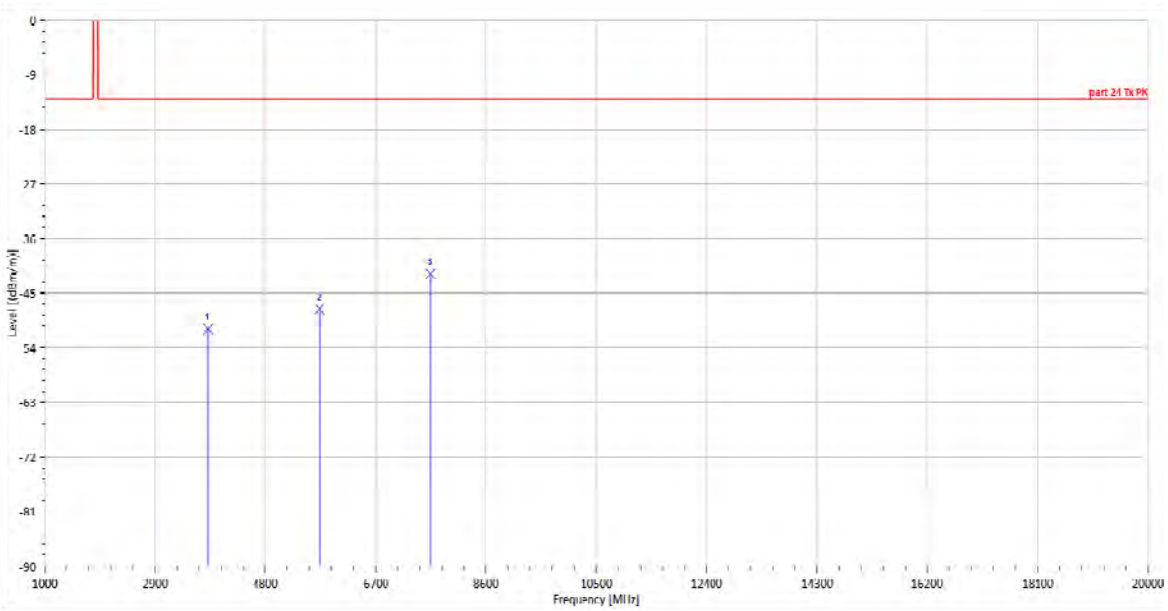
ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-50.91	-52.72	8.73	-6.92	-13.00	-37.90
5729.40	H	-47.63	-49.83	10.39	-8.19	-13.00	-34.62
7639.40	H	-41.82	-43.59	11.74	-9.97	-13.00	-28.81

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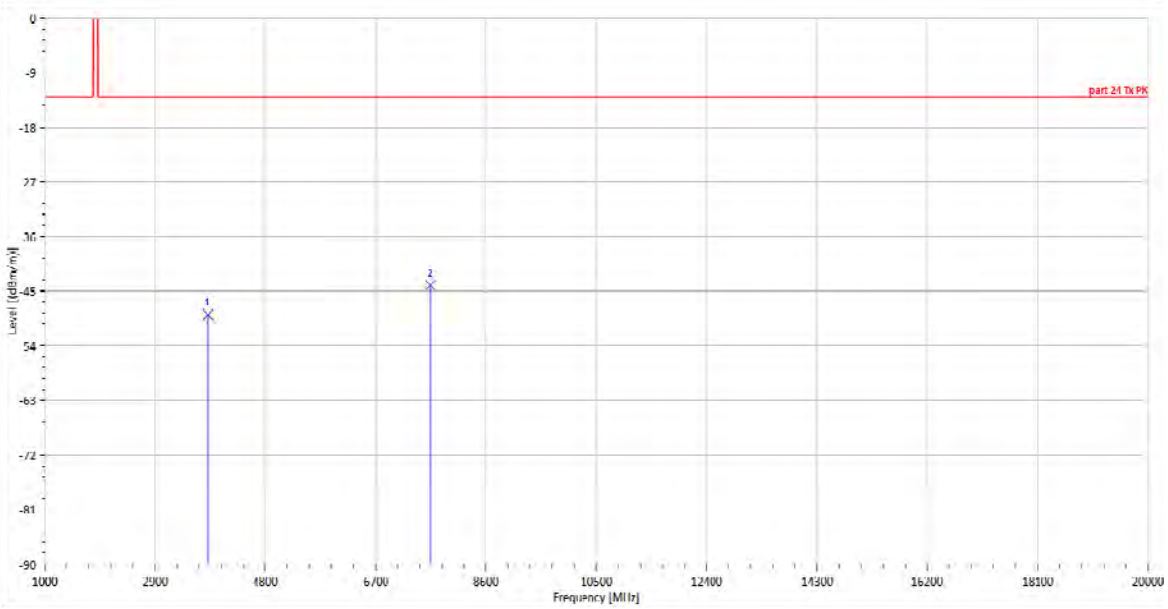
ARFCN	:CH 810	Test Date	:2015-04-09
Operation Band	:GPRS 1900	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-48.89	-50.69	8.73	-6.92	-13.00	-35.88
7639.20	H	-44.05	-45.83	11.74	-9.97	-13.00	-31.04

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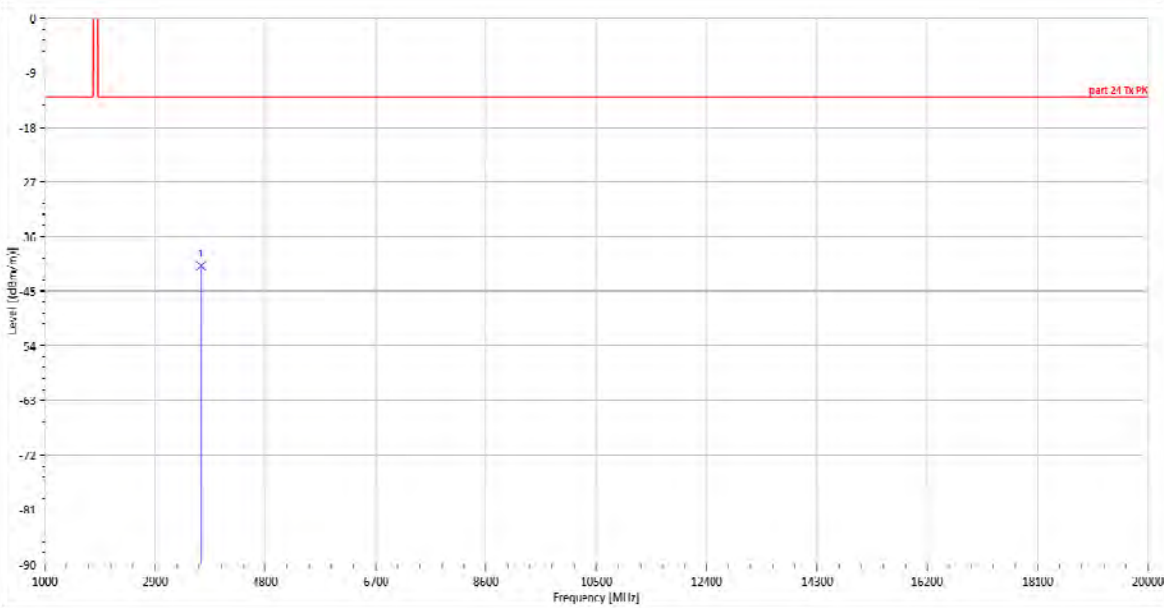
Radiated Spurious Emission Measurement Result: WCDMA II Mode

ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-40.87	-42.62	8.68	-6.93	-13.00	-27.86

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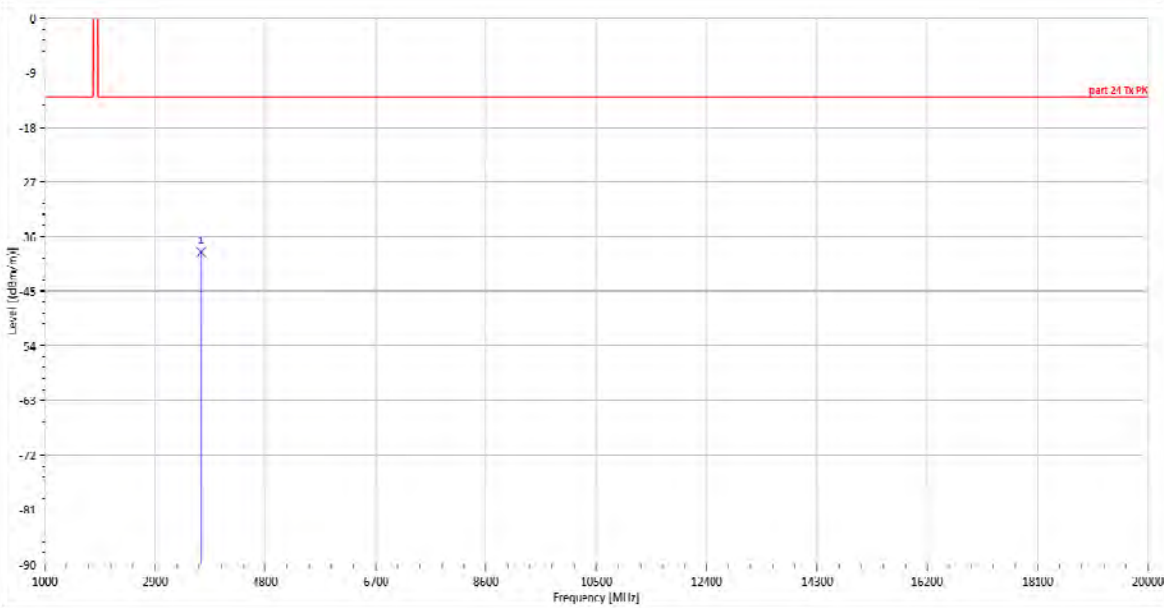
ARFCN	:CH 9262	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-38.57	-40.32	8.68	-6.93	-13.00	-25.56

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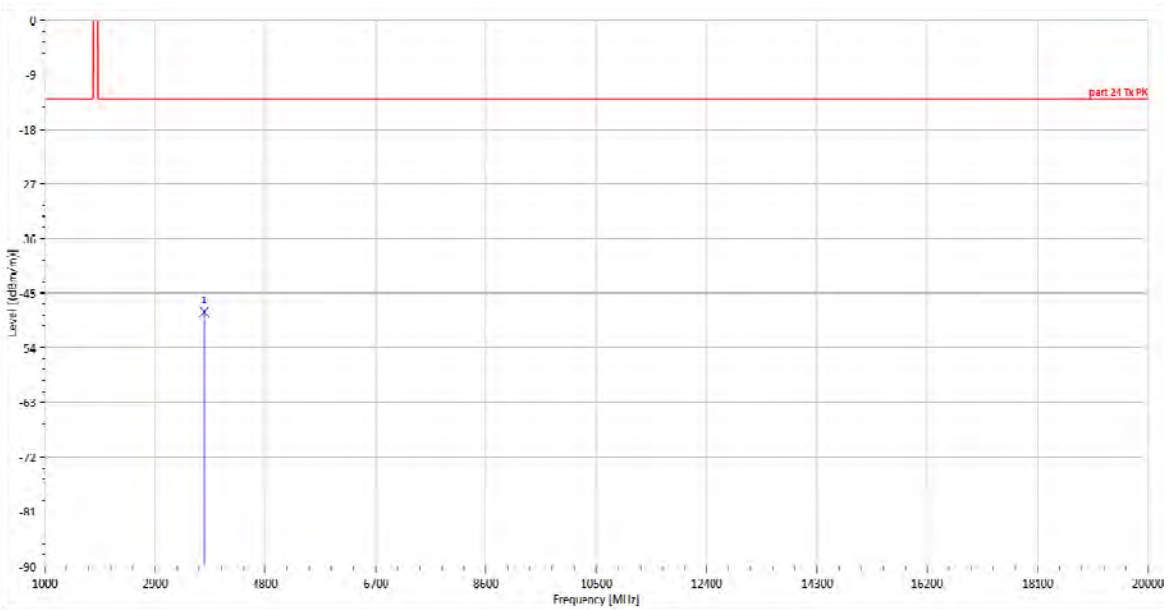
ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-48.06	-49.93	8.70	-6.83	-13.00	-35.05

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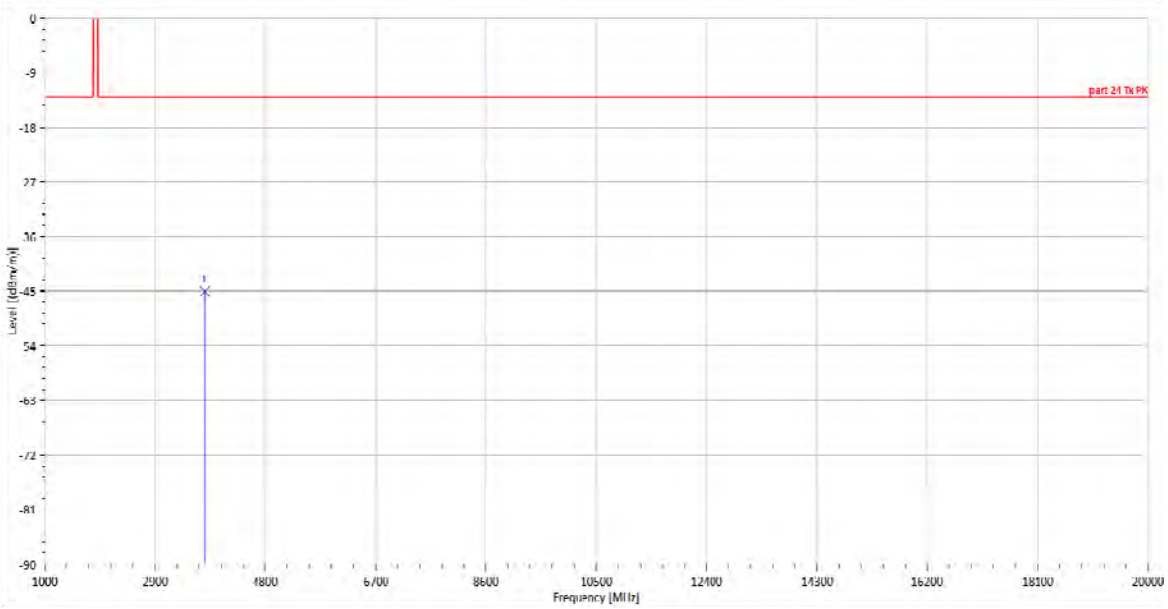
ARFCN	:CH 9400	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-45.09	-46.95	8.70	-6.84	-13.00	-32.07

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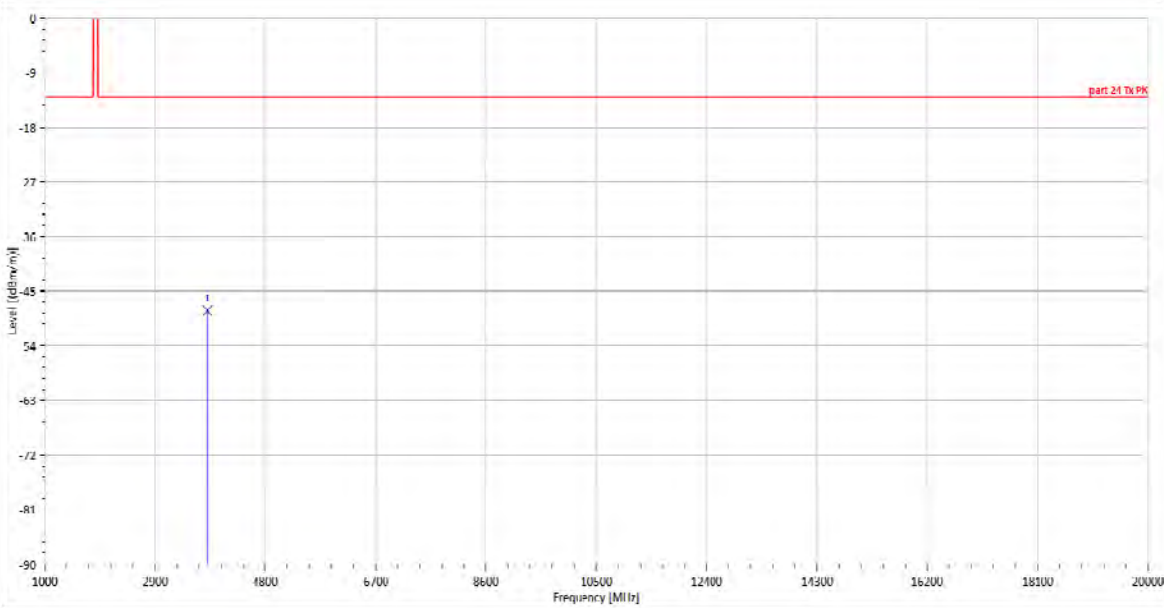
ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-48.23	-50.04	8.72	-6.92	-13.00	-35.22

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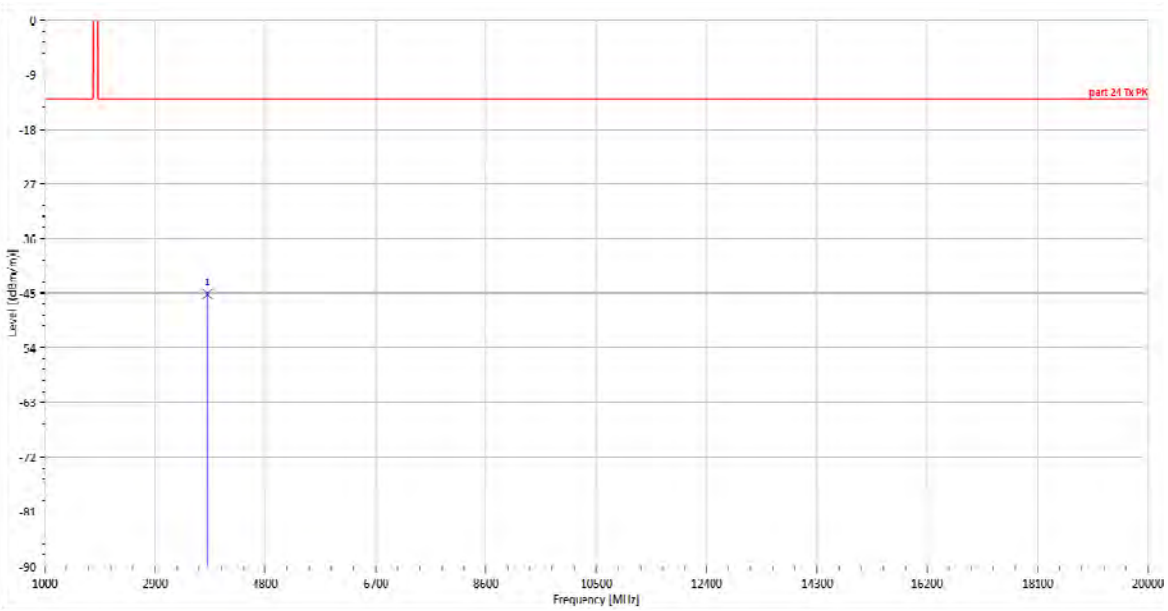
ARFCN	:CH 9538	Test Date	:2015-04-09
Operation Band	:WCDMA B2	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-45.15	-46.95	8.72	-6.92	-13.00	-32.14

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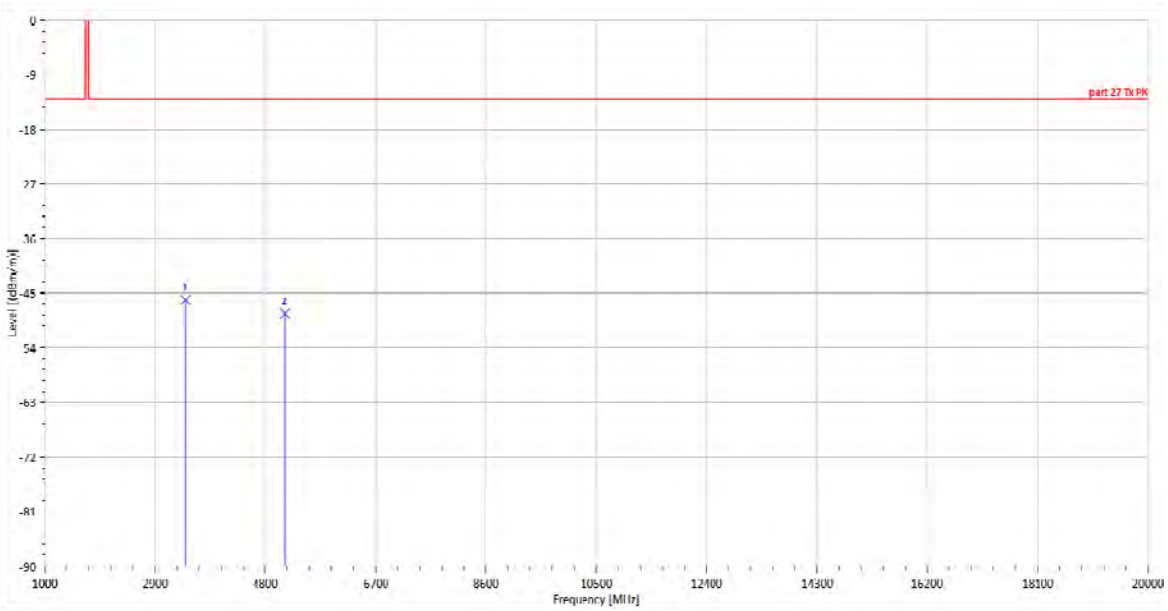
Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-46.13	-47.82	8.35	-6.66	-13.00	-33.12
5137.20	H	-48.35	-51.02	10.08	-7.42	-13.00	-35.34

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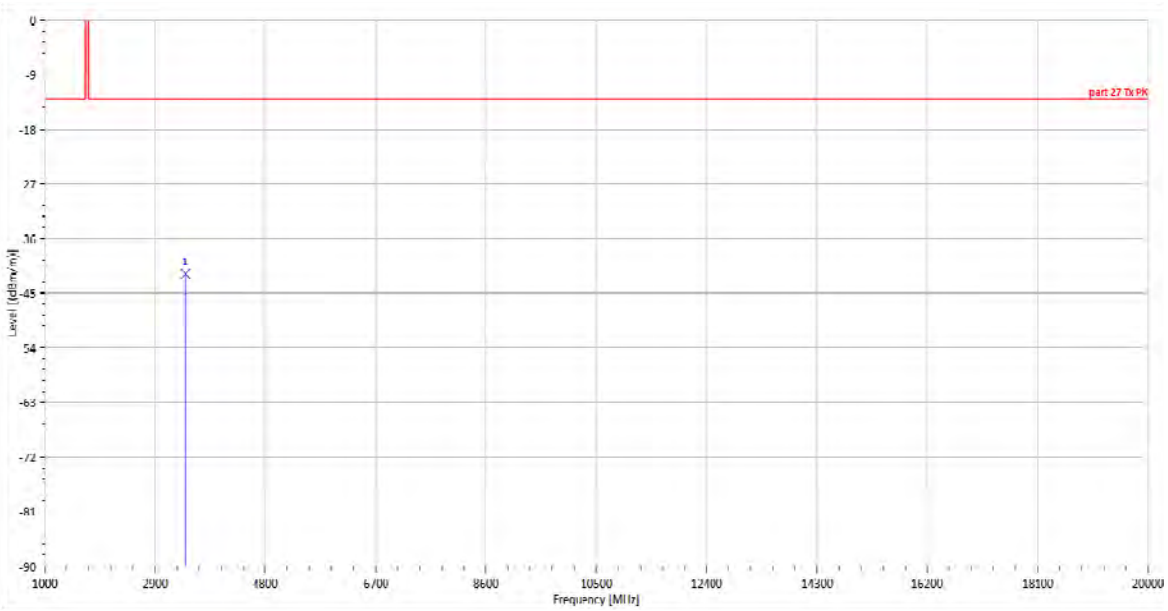
ARFCN	:CH 1312	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-41.81	-43.50	8.35	-6.66	-13.00	-28.80

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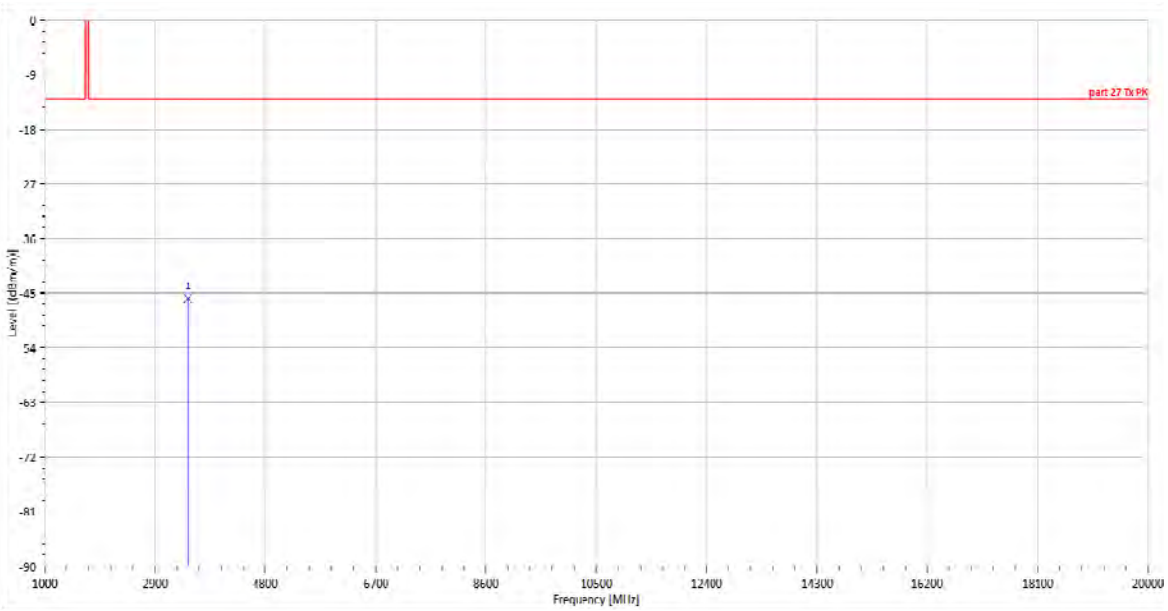
ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-45.86	-47.72	8.49	-6.63	-13.00	-32.85

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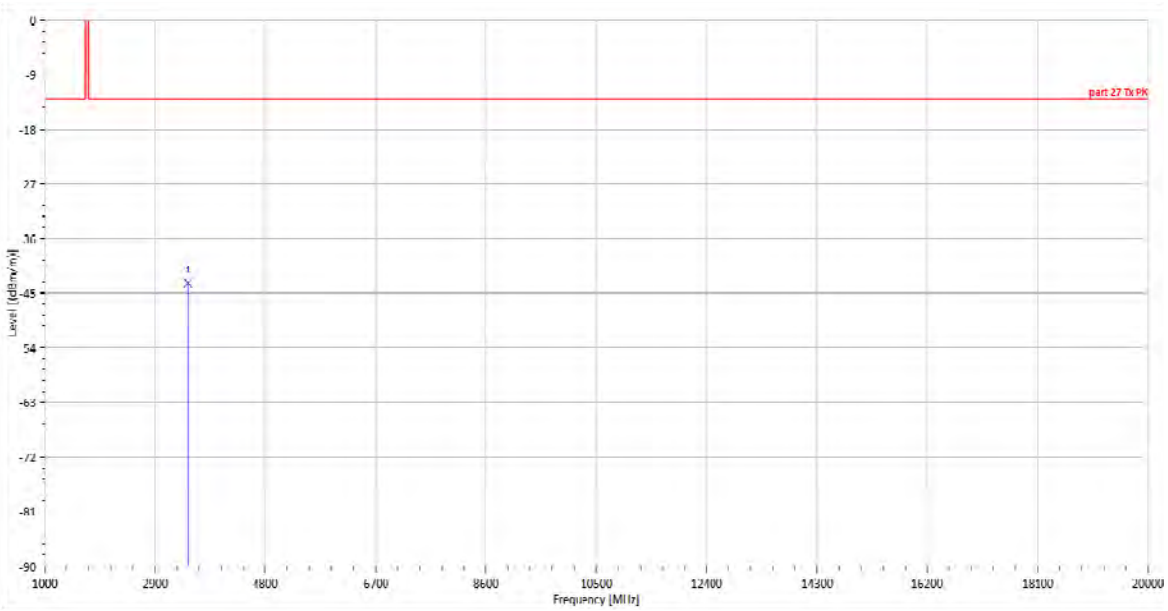
ARFCN	:CH 1413	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-43.34	-45.20	8.49	-6.63	-13.00	-30.33

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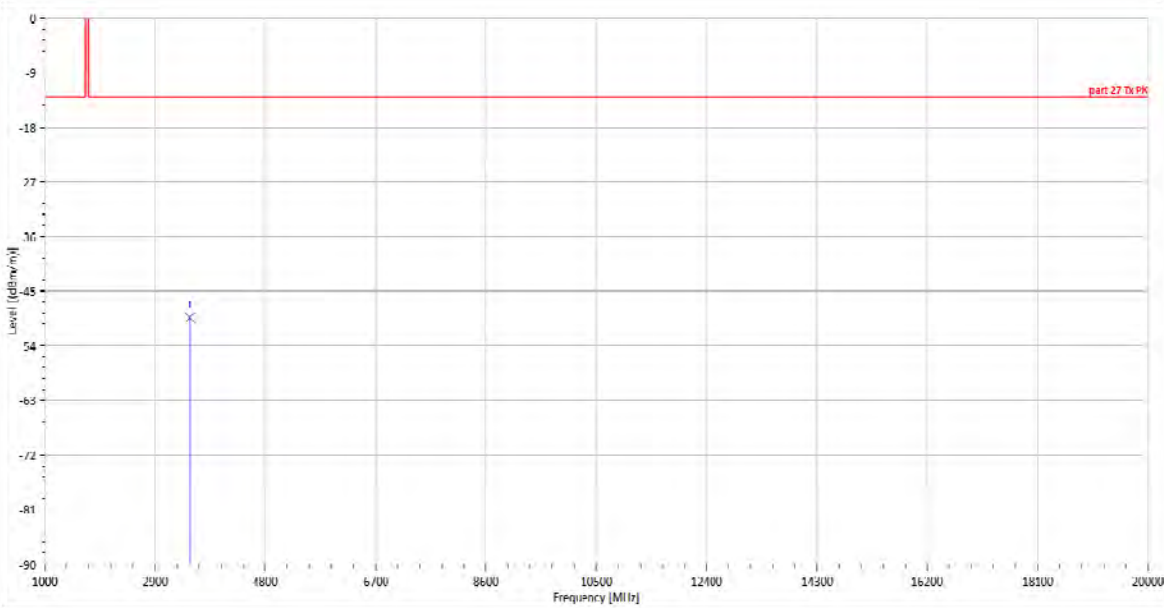
ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-49.35	-51.19	8.60	-6.76	-13.00	-36.34

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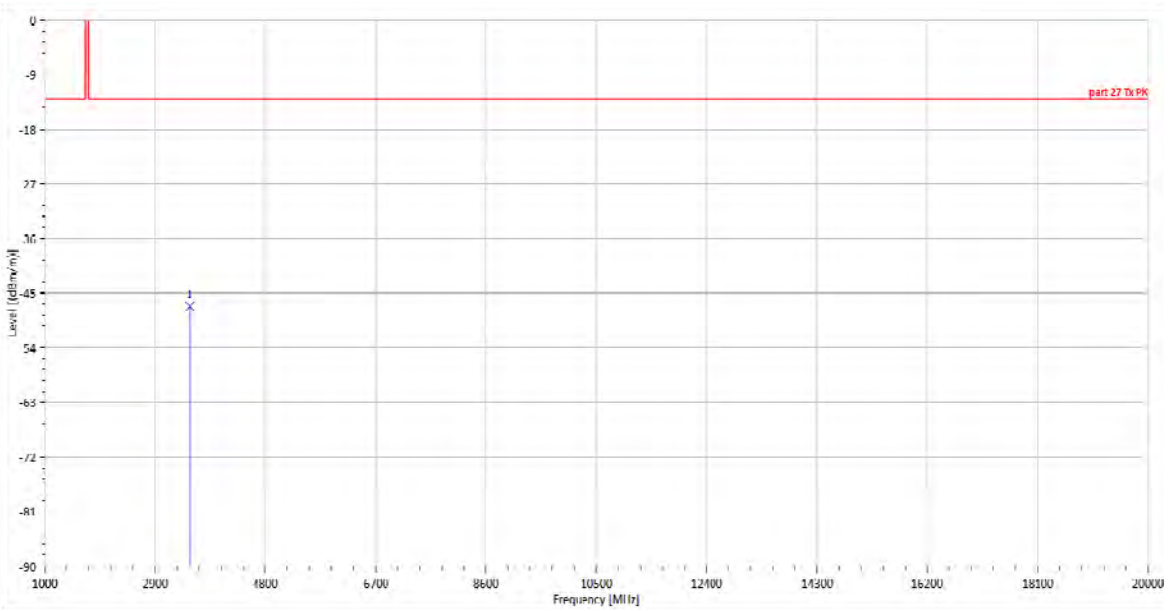
ARFCN	:CH 1513	Test Date	:2015-04-09
Operation Band	:HSDPA B4	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-47.23	-49.07	8.60	-6.76	-13.00	-34.22

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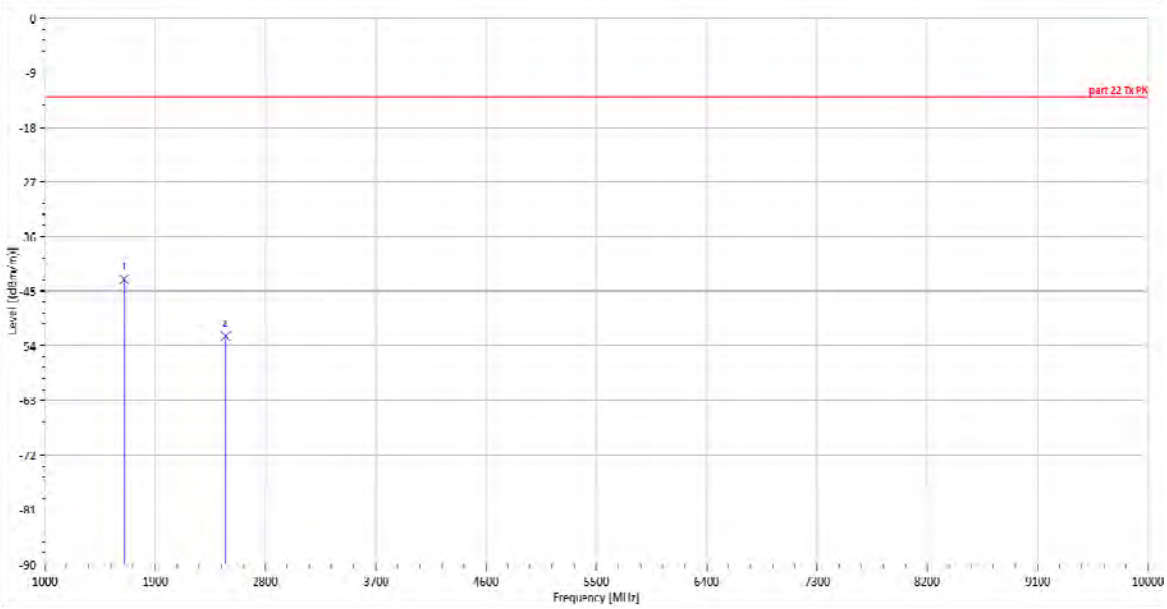
Radiated Spurious Emission Measurement Result: HSUPA V Mode

ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-43.06	-41.65	3.69	-5.11	-13.00	-30.06
2479.20	H	-52.40	-50.18	3.61	-5.83	-13.00	-39.40

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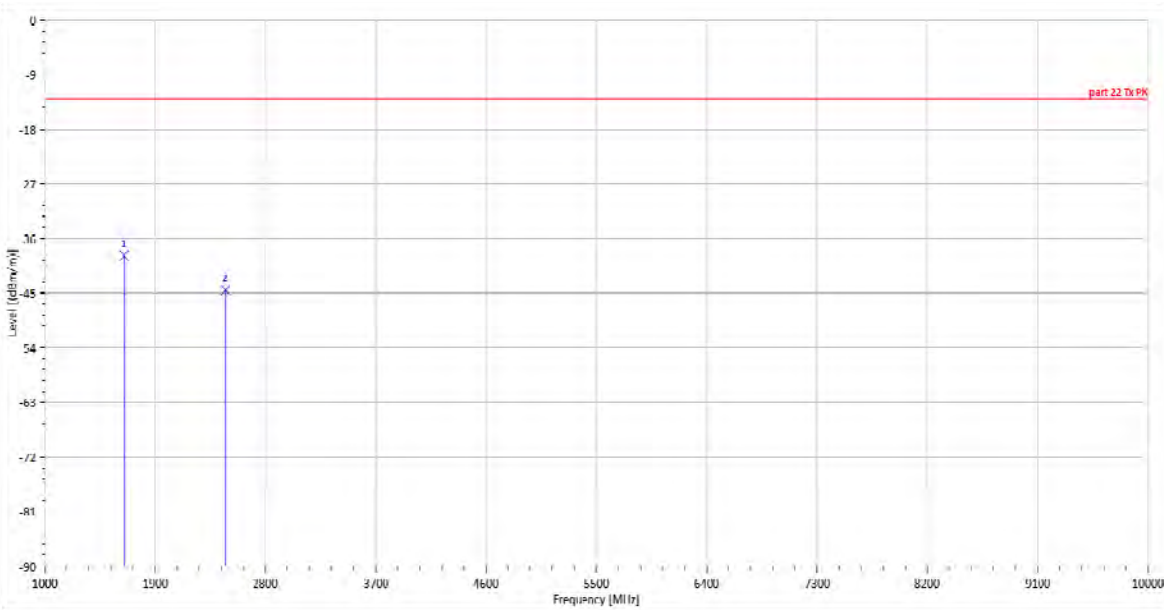
ARFCN	:CH 4132	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-38.82	-37.41	3.69	-5.11	-13.00	-25.82
2479.20	H	-44.52	-42.30	3.61	-5.83	-13.00	-31.52

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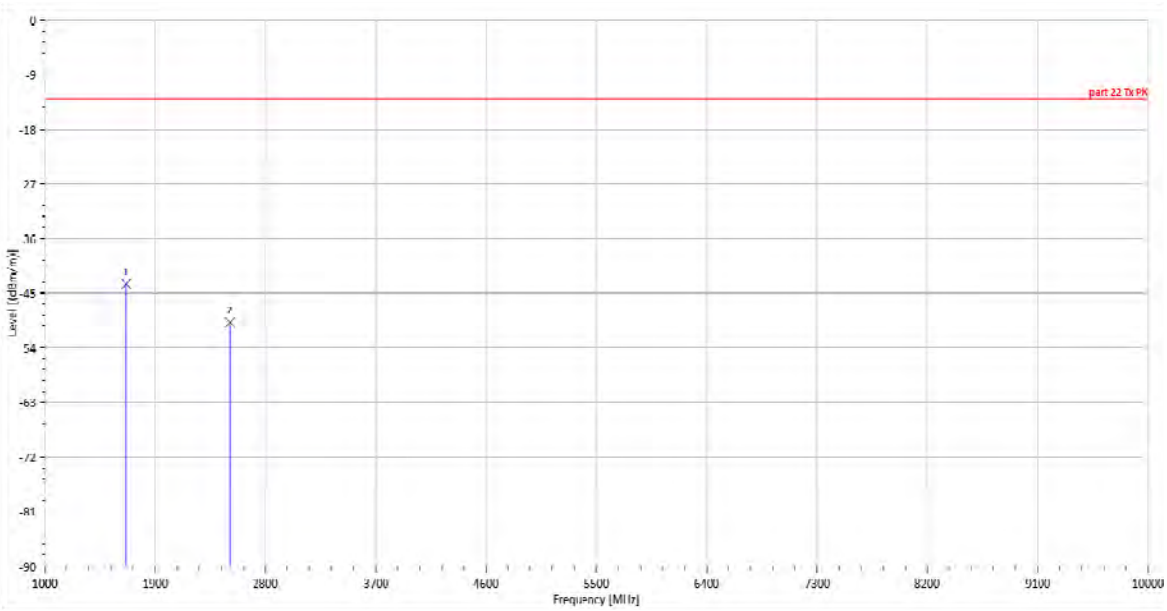
ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-43.51	-42.01	3.65	-5.15	-13.00	-30.51
2509.80	H	-49.86	-47.70	3.68	-5.83	-13.00	-36.86

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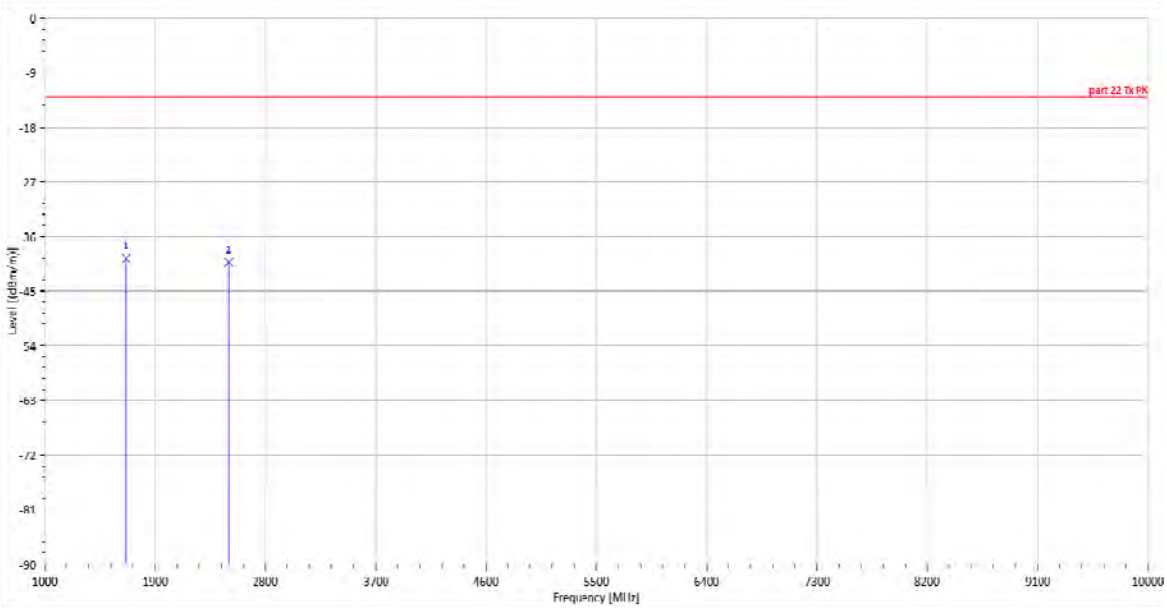
ARFCN	:CH 4183	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Vito
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-39.60	-38.10	3.65	-5.15	-13.00	-26.60
2509.80	H	-40.23	-38.06	3.68	-5.85	-13.00	-27.25

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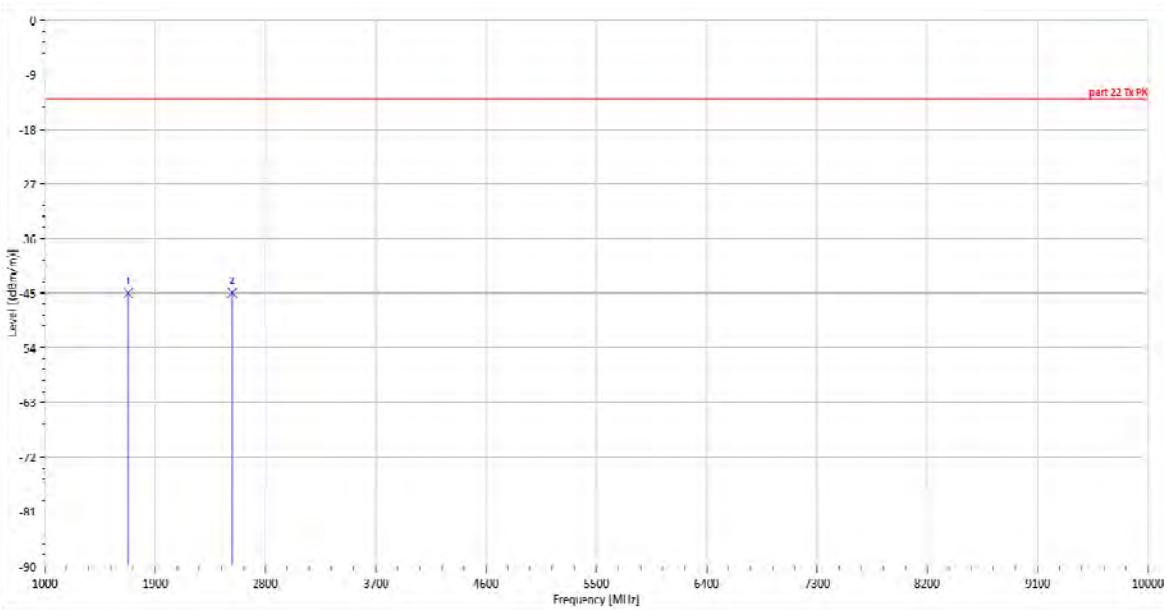
ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-45.00	-43.49	3.61	-5.12	-13.00	-32.00
2539.80	H	-44.94	-42.81	3.72	-5.85	-13.00	-31.94

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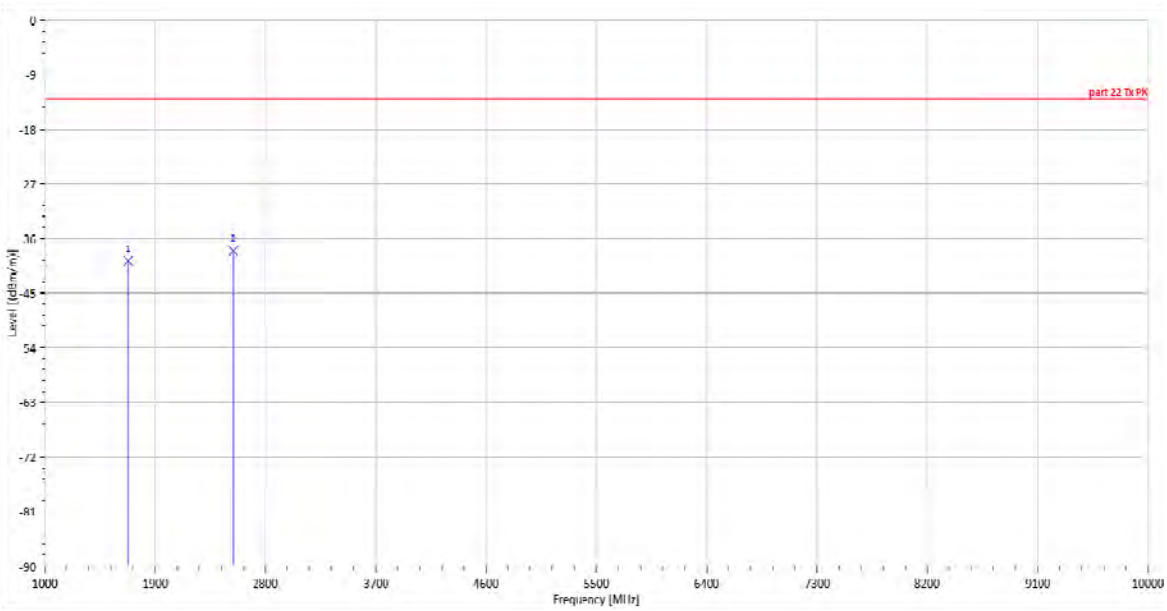
ARFCN	:CH 4233	Test Date	:2015-04-09
Operation Band	:HSUPA B5	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Vito
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-39.67	-38.15	3.61	-5.12	-13.00	-26.67
2539.80	H	-38.10	-35.97	3.72	-5.85	-13.00	-25.08

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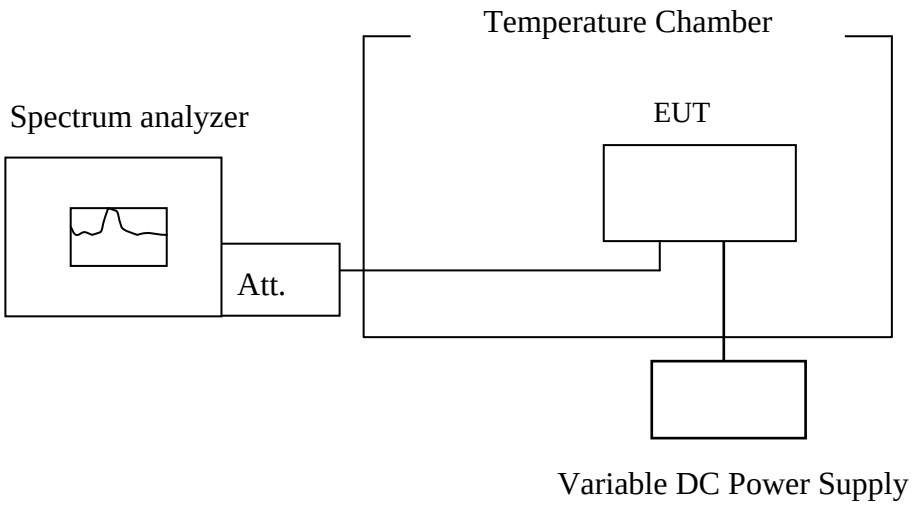
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector.

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25˚C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30˚C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10˚C increased per stage until the highest temperature of +50˚C reached.

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2014	05/30/2015

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	20	836599995	-2	2091
3.8	20	836599997	0	2091
3.3	20	836599999	2	2091
3.3 (End point)	20	836599999	2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	50	836600001	4	2091
3.8	40	836600005	8	2091
3.8	30	836600004	7	2091
3.8	20	836599997	0	2091
3.8	10	836600005	8	2091
3.8	0	836599997	0	2091
3.8	-10	836599996	-1	2091
3.8	-20	836599999	2	2091
3.8	-30	836599998	1	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	20	1879999999	2	4700
3.8	20	1879999997	0	4700
3.3	20	1879999996	-1	4700
3.3 (End point)	20	1879999996	-1	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	50	1880000004	7	4700
3.8	40	1880000005	8	4700
3.8	30	1880000003	6	4700
3.8	20	1879999997	0	4700
3.8	10	1879999999	2	4700
3.8	0	1879999997	0	4700
3.8	-10	1879999995	-2	4700
3.8	-20	1879999996	-1	4700
3.8	-30	1879999999	2	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.4	20	1879999999	3	4700
3.8	20	1879999996	0	4700
3.3	20	1879999997	1	4700
3.3 (End point)	20	1879999997	1	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
3.8	50	1880000003	7	4700
3.8	40	1880000004	8	4700
3.8	30	1880000003	7	4700
3.8	20	1879999996	0	4700
3.8	10	1880000005	9	4700
3.8	0	1880000004	8	4700
3.8	-10	1879999998	2	4700
3.8	-20	1879999994	-2	4700
3.8	-30	1879999997	1	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	20	173259997	0	4331
3.8	20	173259997	0	4331
3.3	20	173259996	-1	4331
3.3 (End point)	20	173259996	-1	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	50	173260002	5	4331
3.8	40	173260004	7	4331
3.8	30	173259999	2	4331
3.8	20	173259997	0	4331
3.8	10	173259997	0	4331
3.8	0	173259996	-1	4331
3.8	-10	173259997	0	4331
3.8	-20	173259996	-1	4331
3.8	-30	173259999	2	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.4	20	836599995	-1	2091
3.8	20	836599996	0	2091
3.3	20	836599994	-2	2091
3.3 (End point)	20	836599994	-2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
3.8	50	836600001	5	2091
3.8	40	836600003	7	2091
3.8	30	836600004	8	2091
3.8	20	836599996	0	2091
3.8	10	836600006	10	2091
3.8	0	836599996	0	2091
3.8	-10	836599997	1	2091
3.8	-20	836599996	0	2091
3.8	-30	836599996	0	2091

Note: The battery is rated 3.8Vdc.

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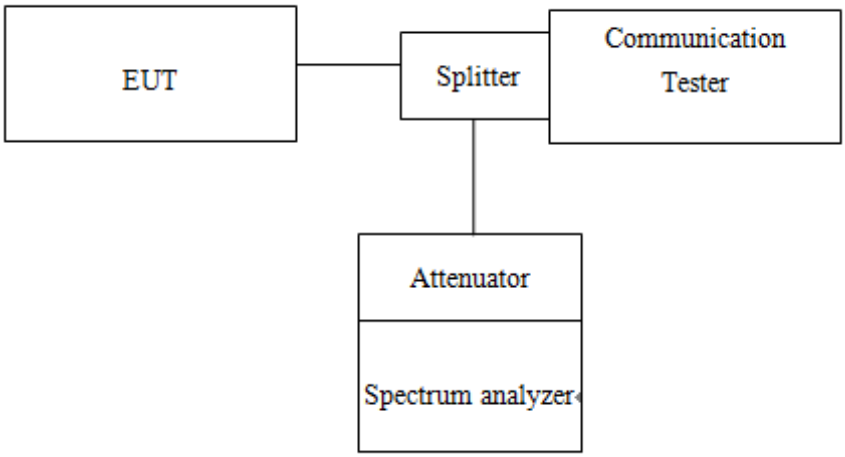
12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	04/23/2014	04/22/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2014	05/30/2015

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
824.20	128	9.77	12.83
836.60	190	9.94	11.95
848.80	251	9.53	12.84

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
1850.20	512	9.77	13.55
1880.00	661	10.08	12.70
1909.80	810	10.34	13.26

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	3.09	4.12	3.71
1880.00	9400	3.10	3.80	3.91
1909.80	9538	2.94	3.68	3.61

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.07	3.77	3.78
1732.6	1413	3.08	4.10	3.90
1752.6	1513	3.04	3.72	3.87

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.03	3.76	3.78
836.60	4183	2.98	3.74	3.53
846.60	4233	2.91	3.62	3.59

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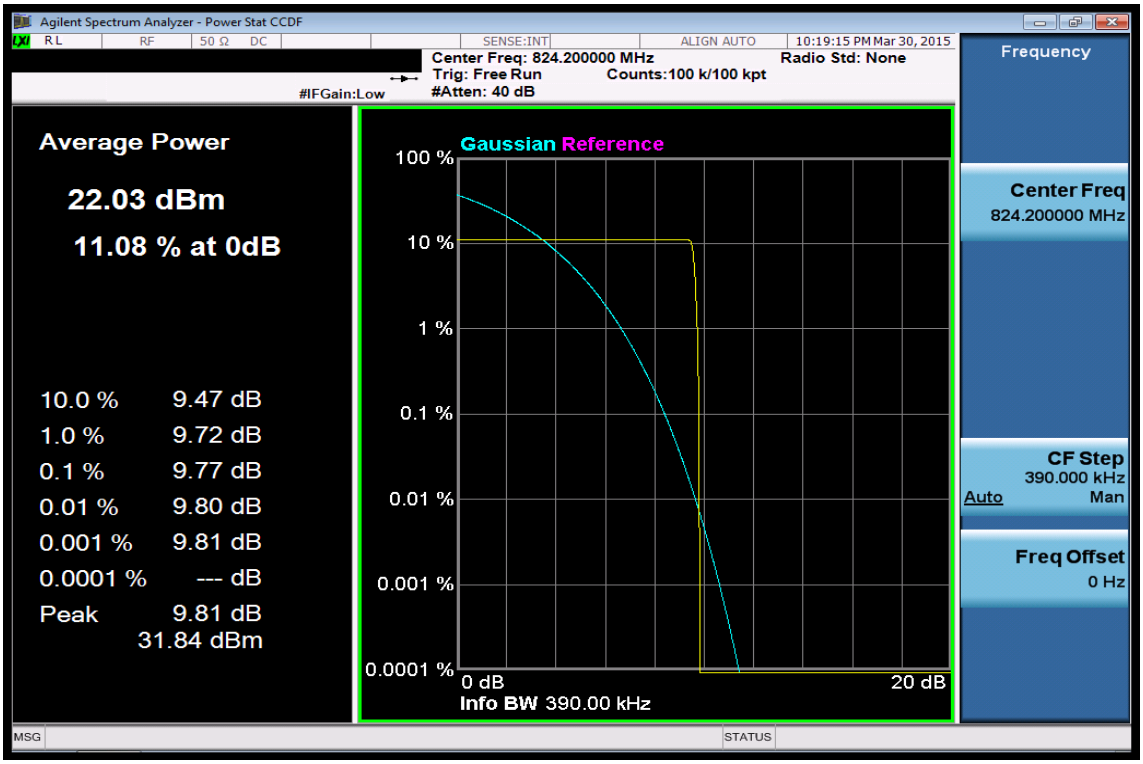
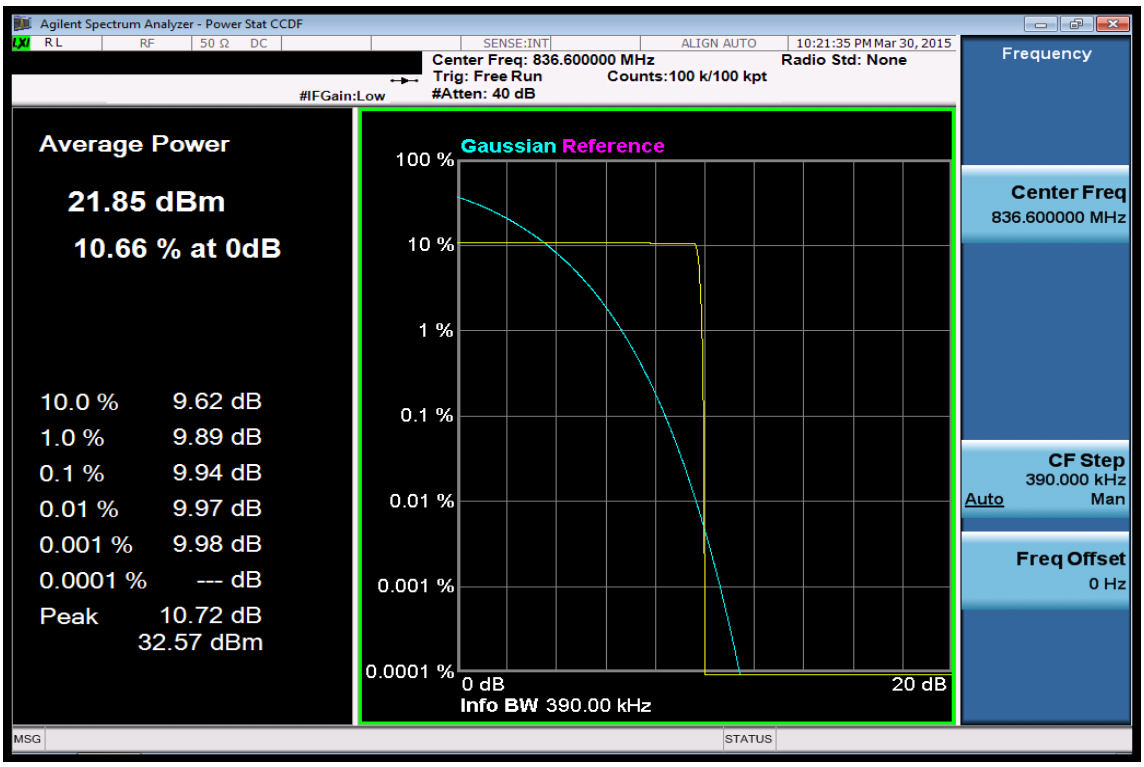
Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid



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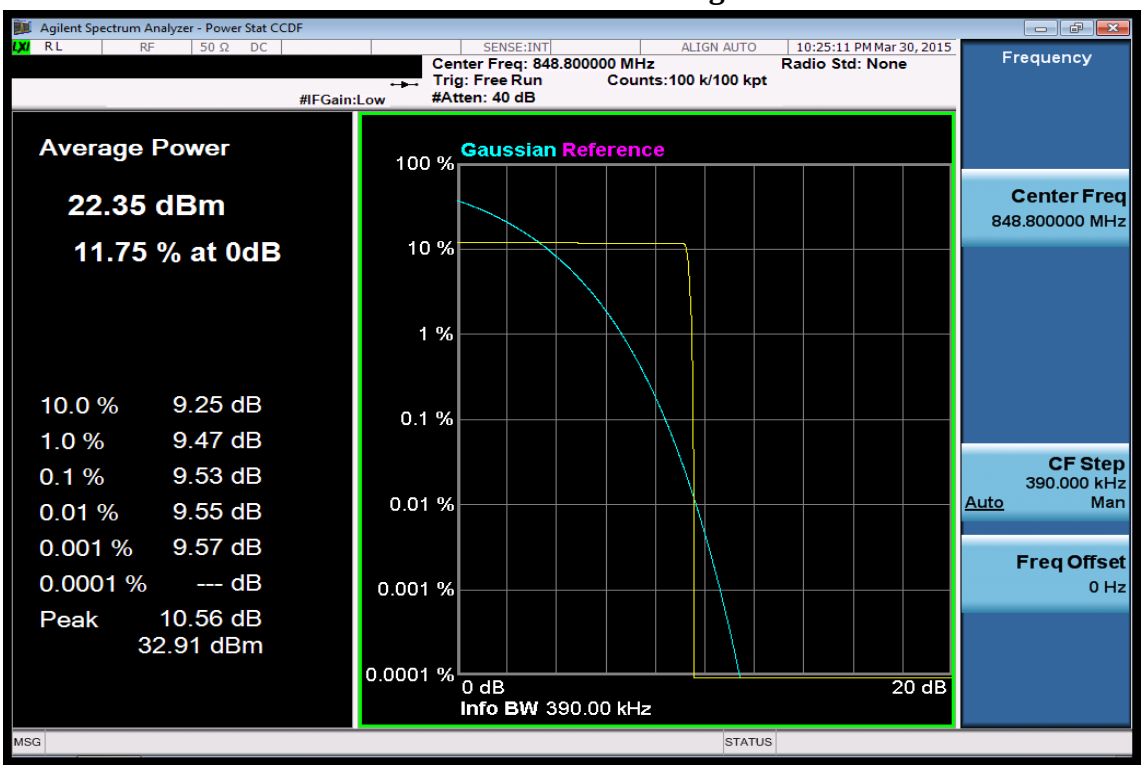
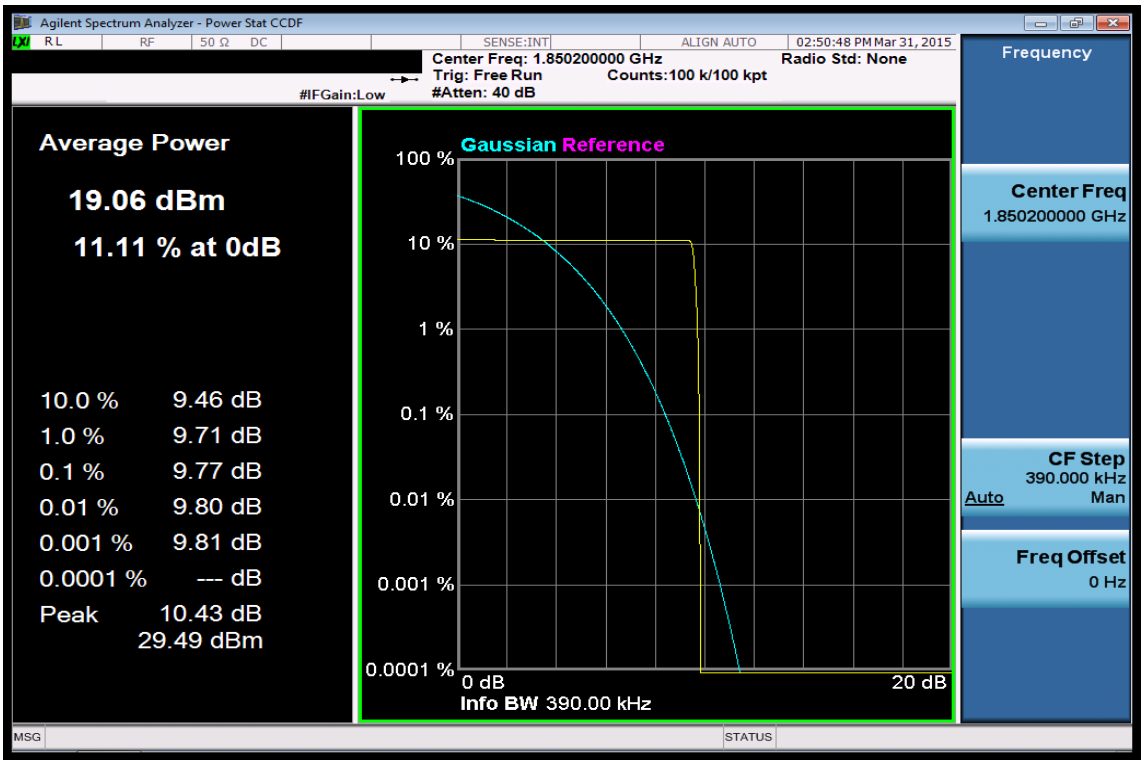
GPRS 850 Channel High



GPRS 1900 Channel Low



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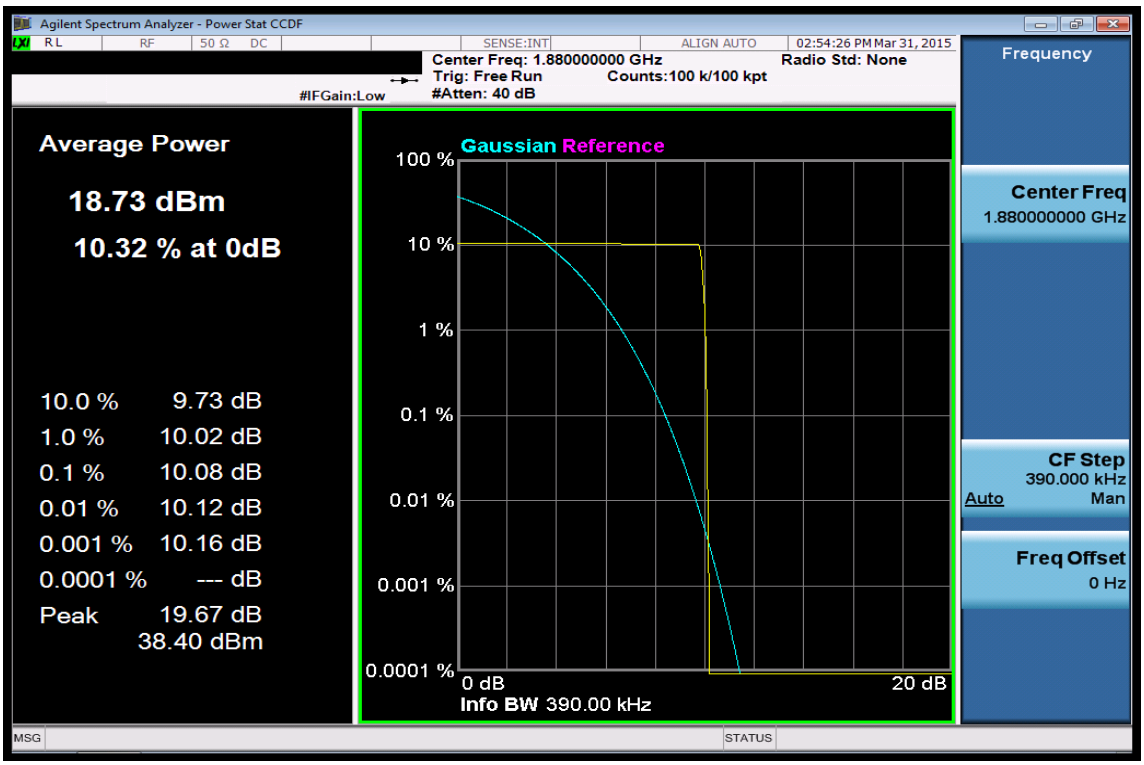
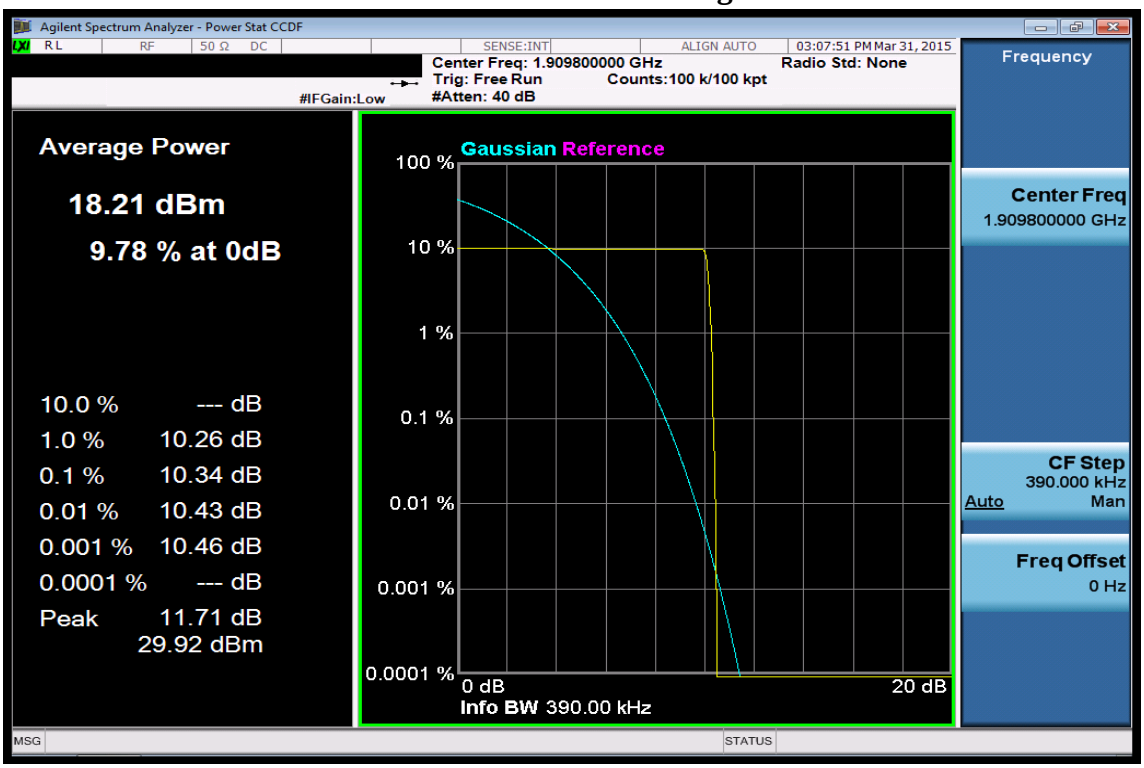
GPRS 1900 Channel Mid



GPRS 1900 Channel High



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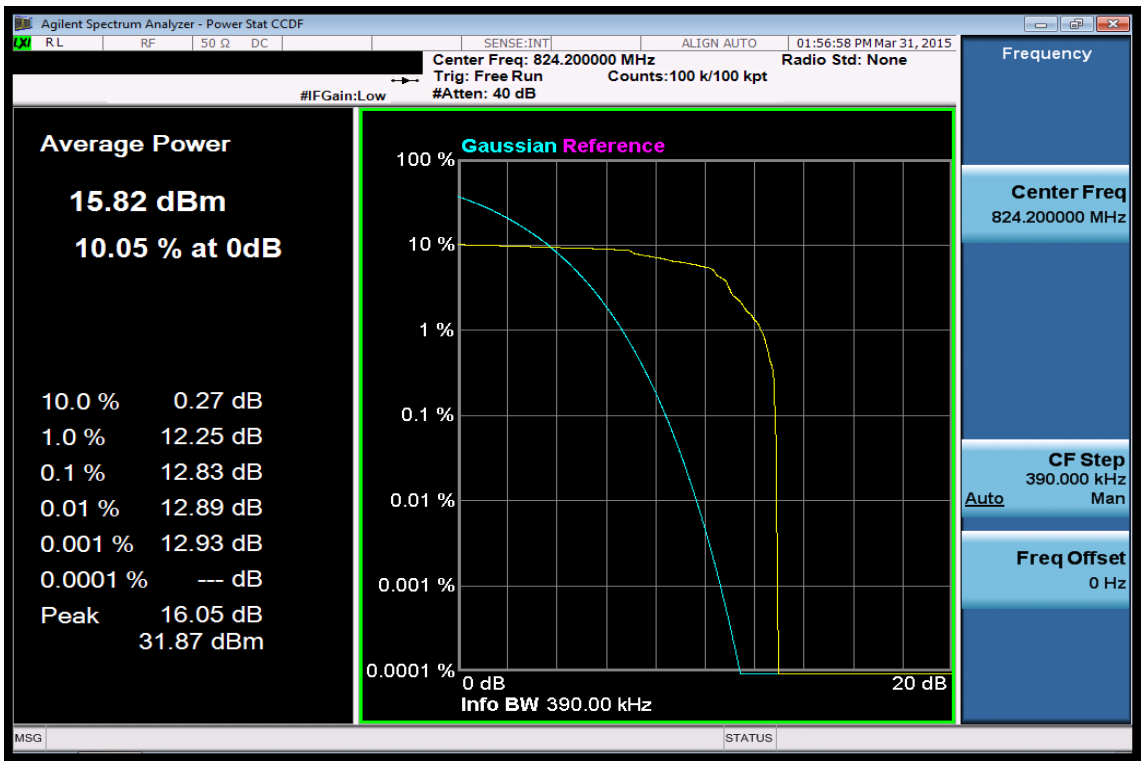
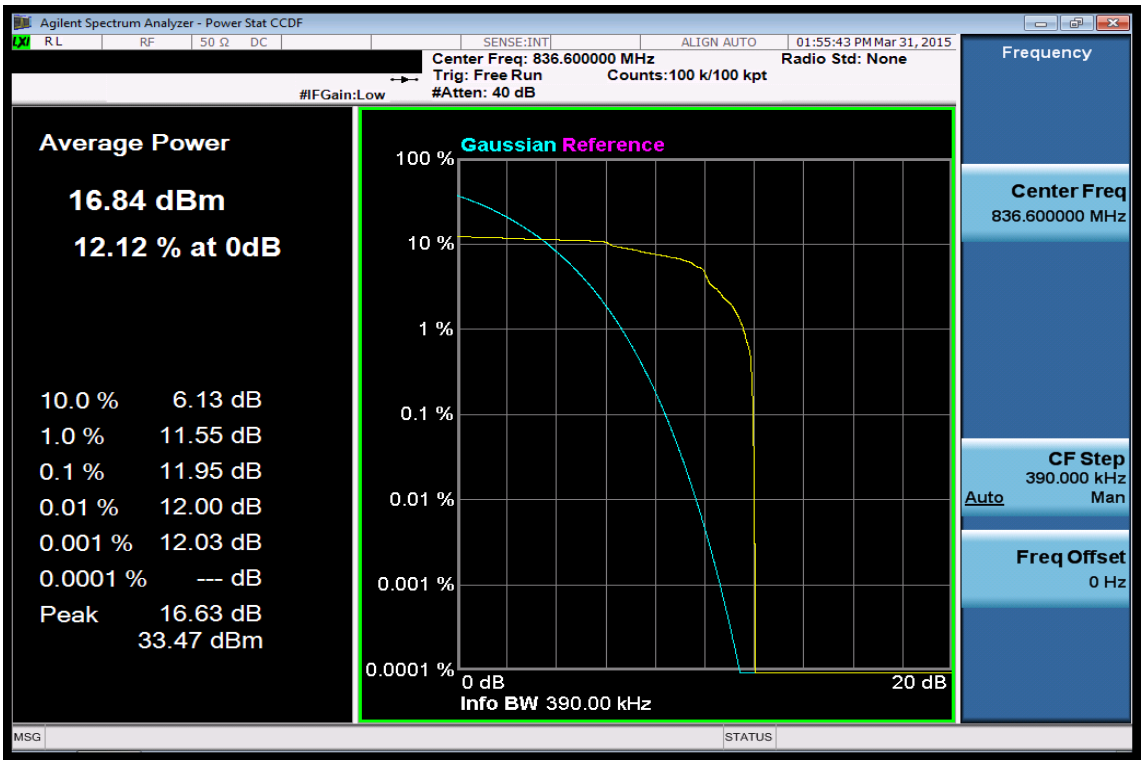
EDGE 850 Channel Low



EDGE 850 Channel Mid



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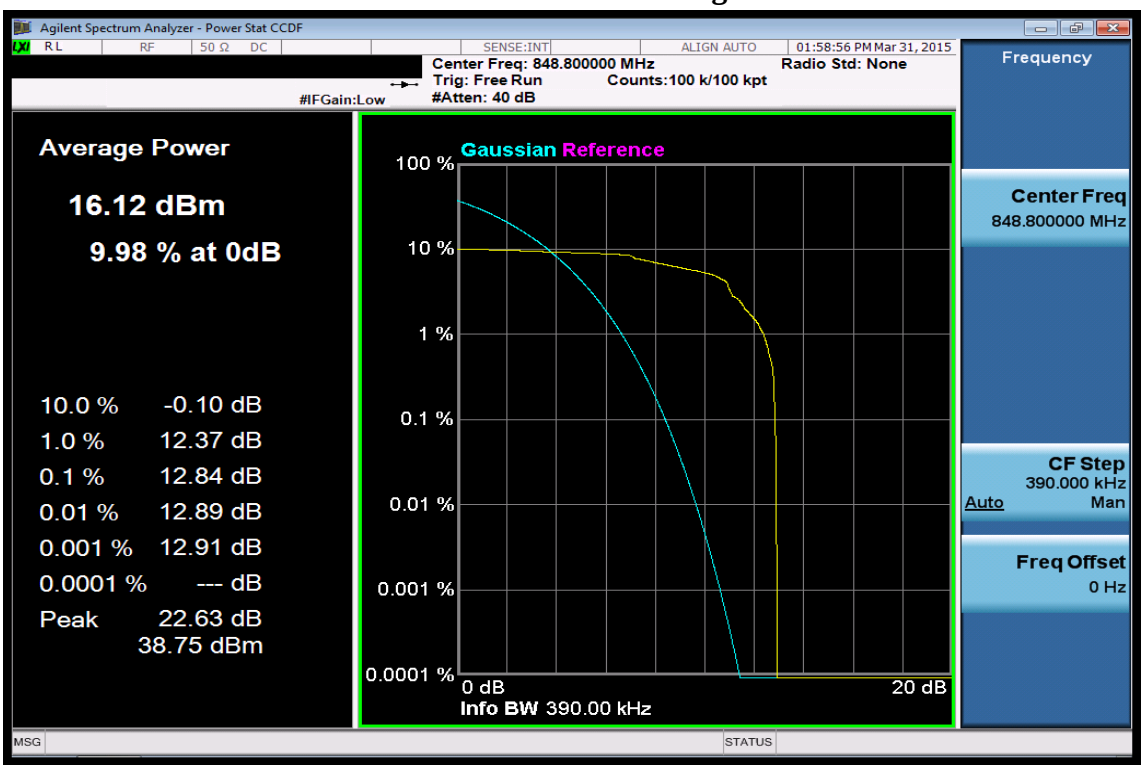
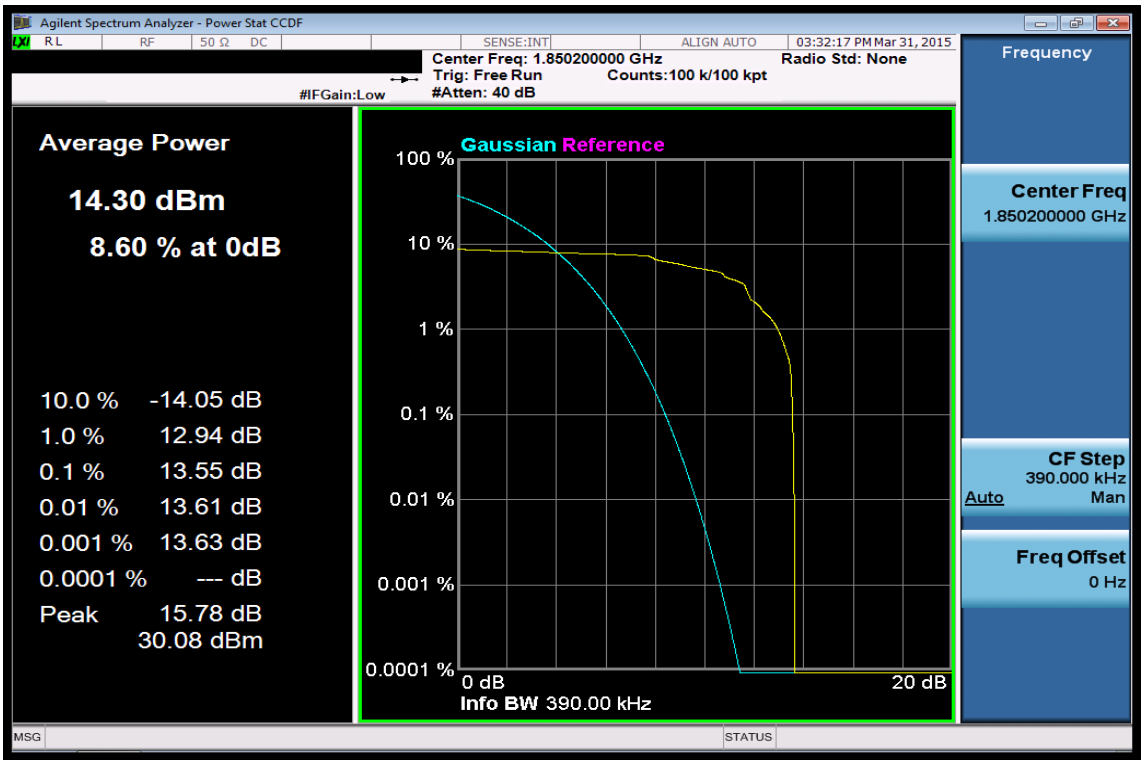
EDGE 850 Channel High



EDGE 1900 Channel Low



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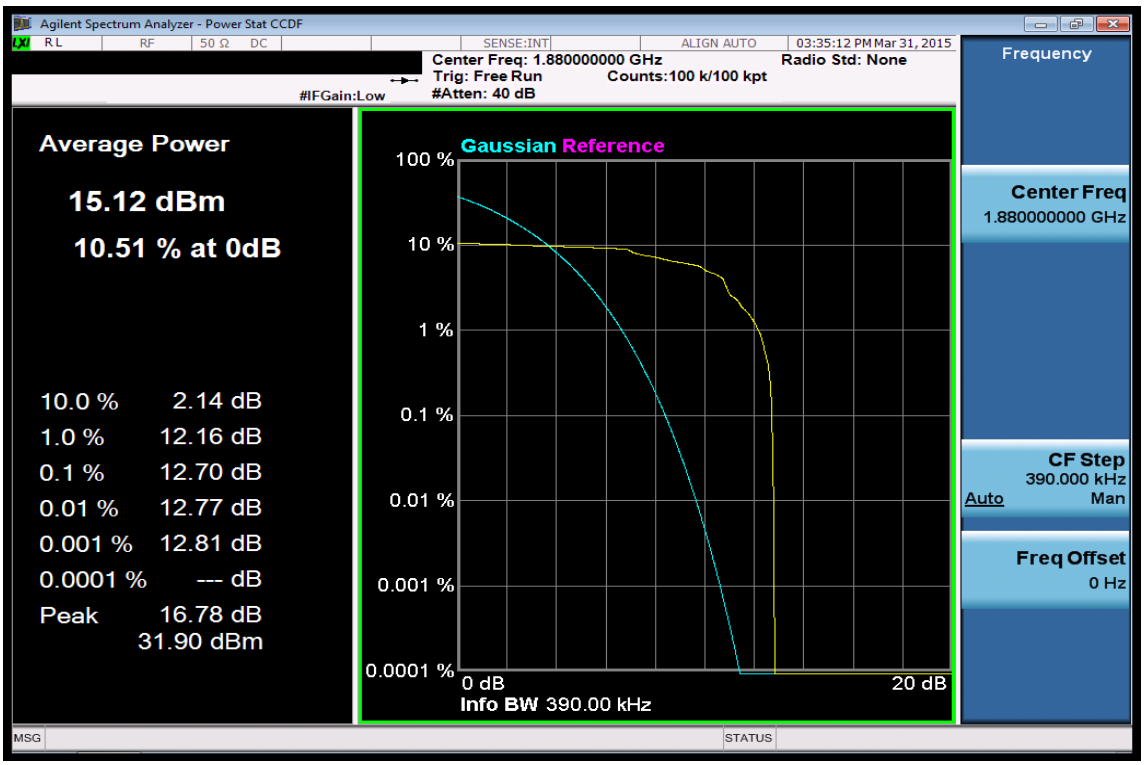
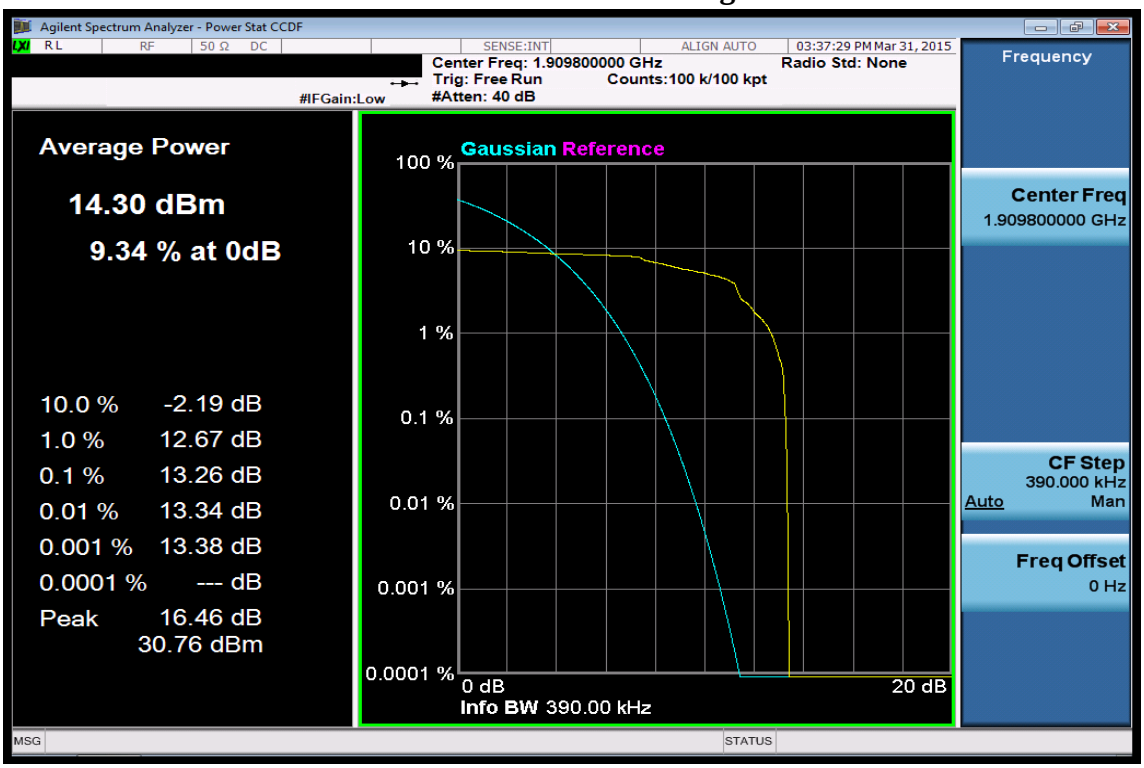
EDGE 1900 Channel Mid



EDGE 1900 Channel High



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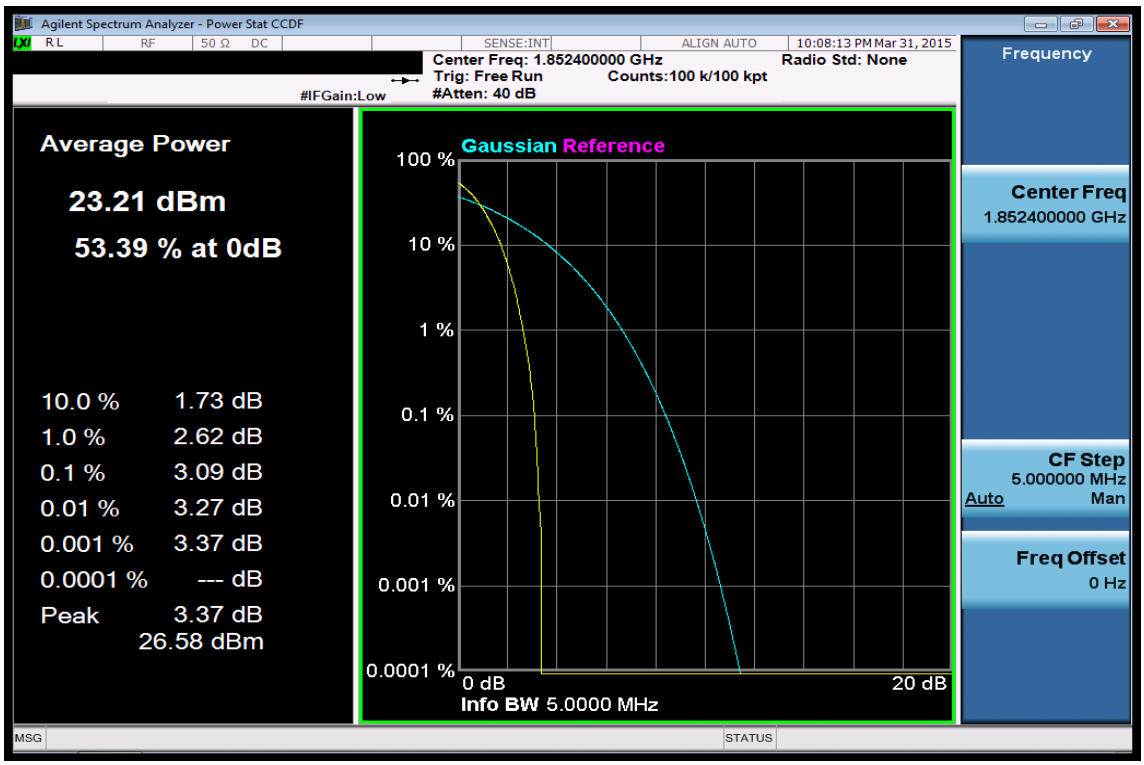
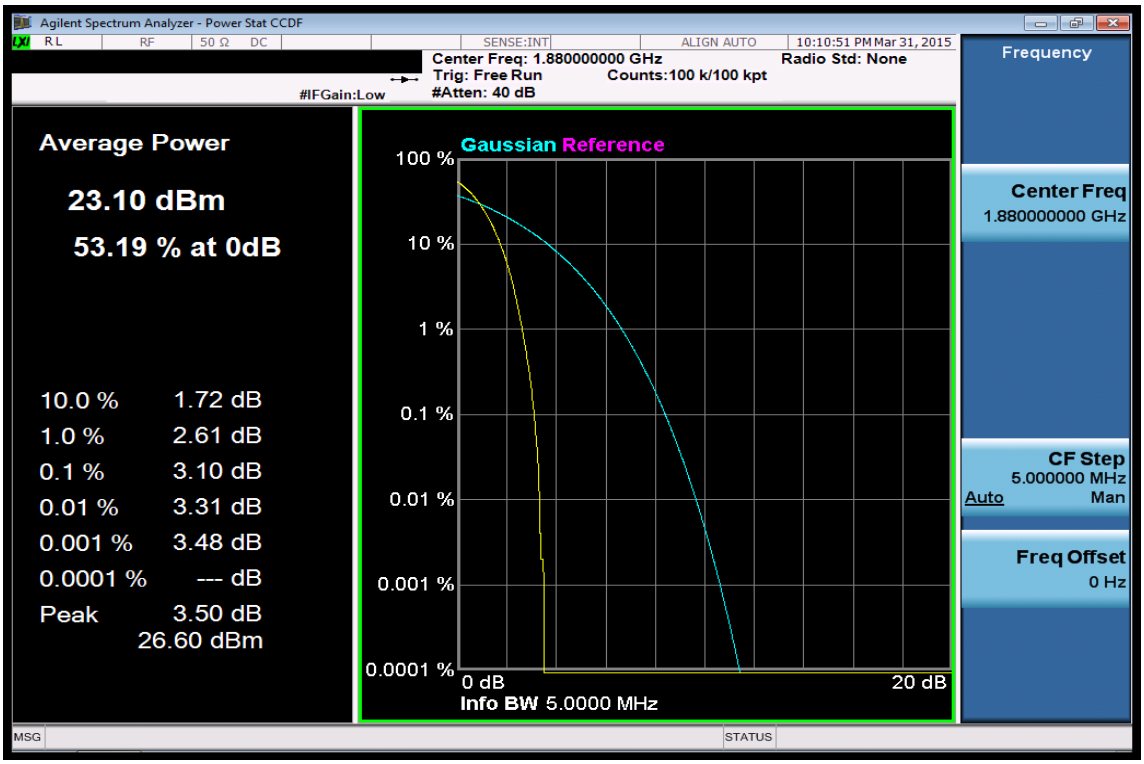
WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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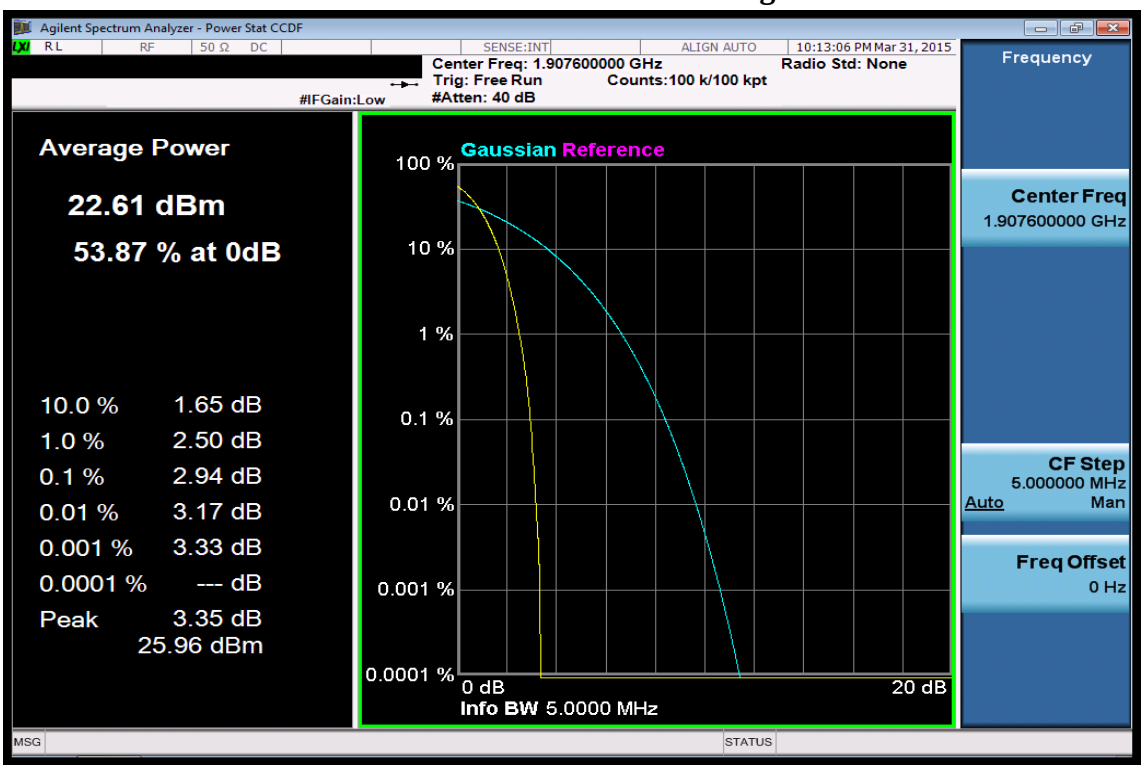
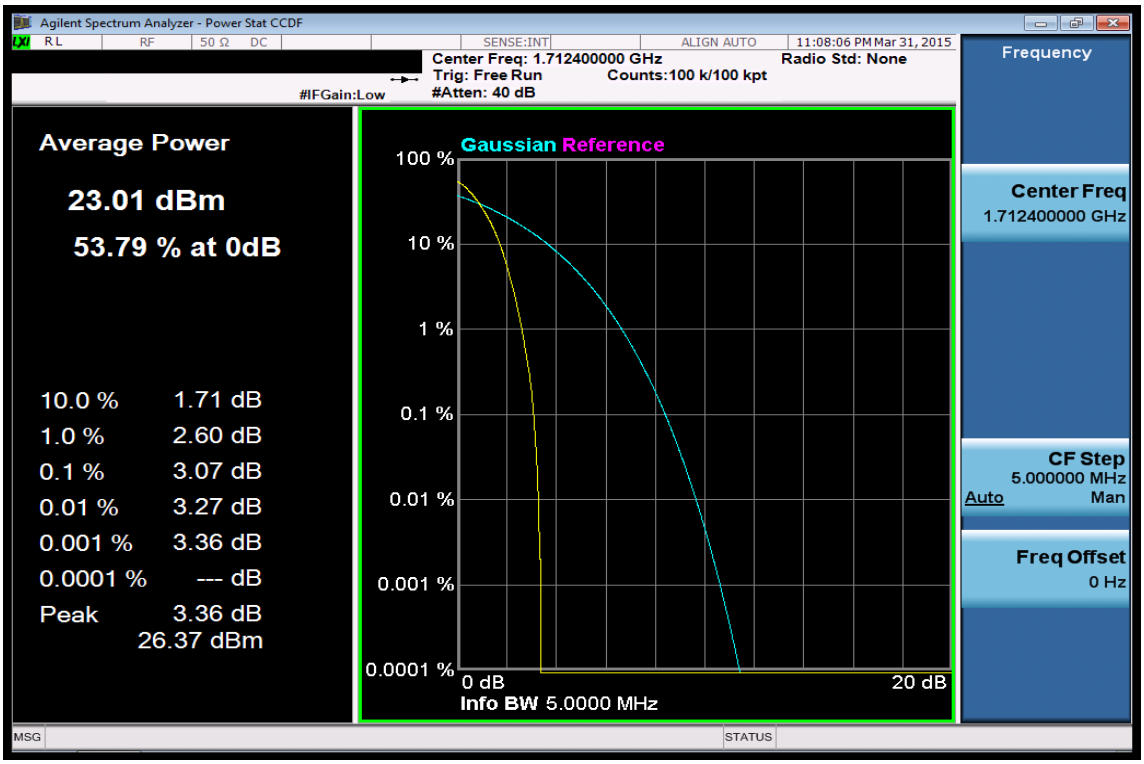
WCDMA Band II Channel High



WCDMA Band IV Channel Low



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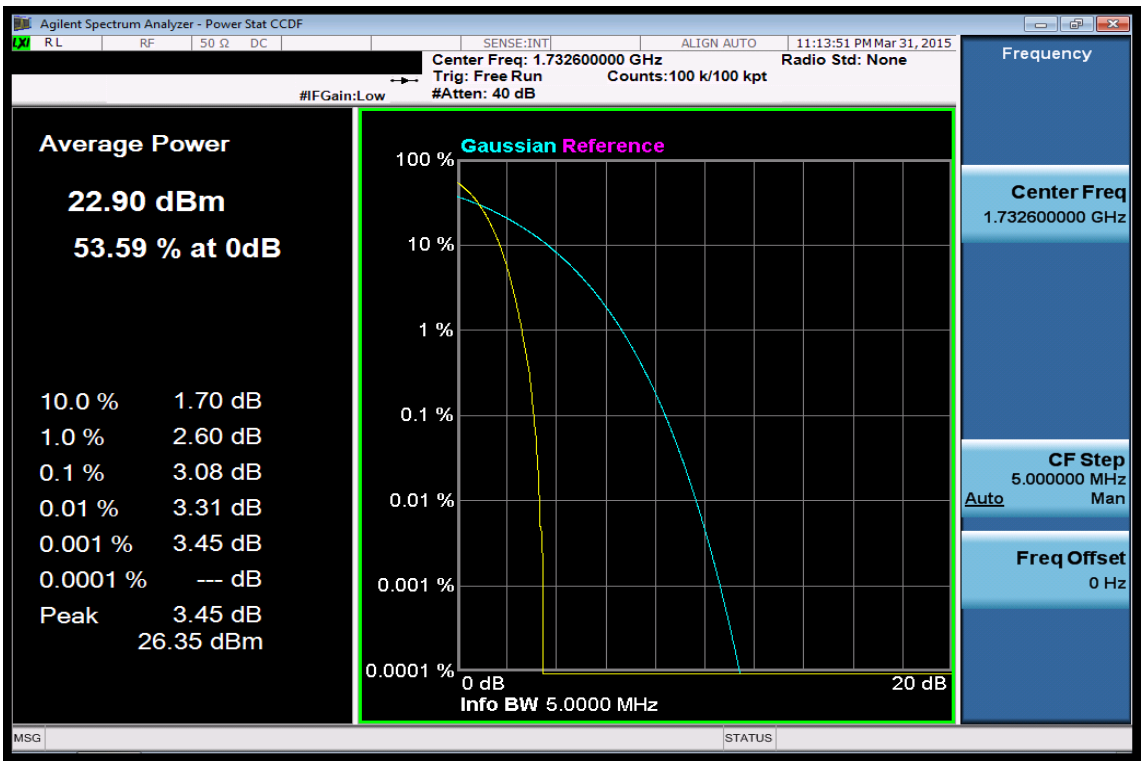
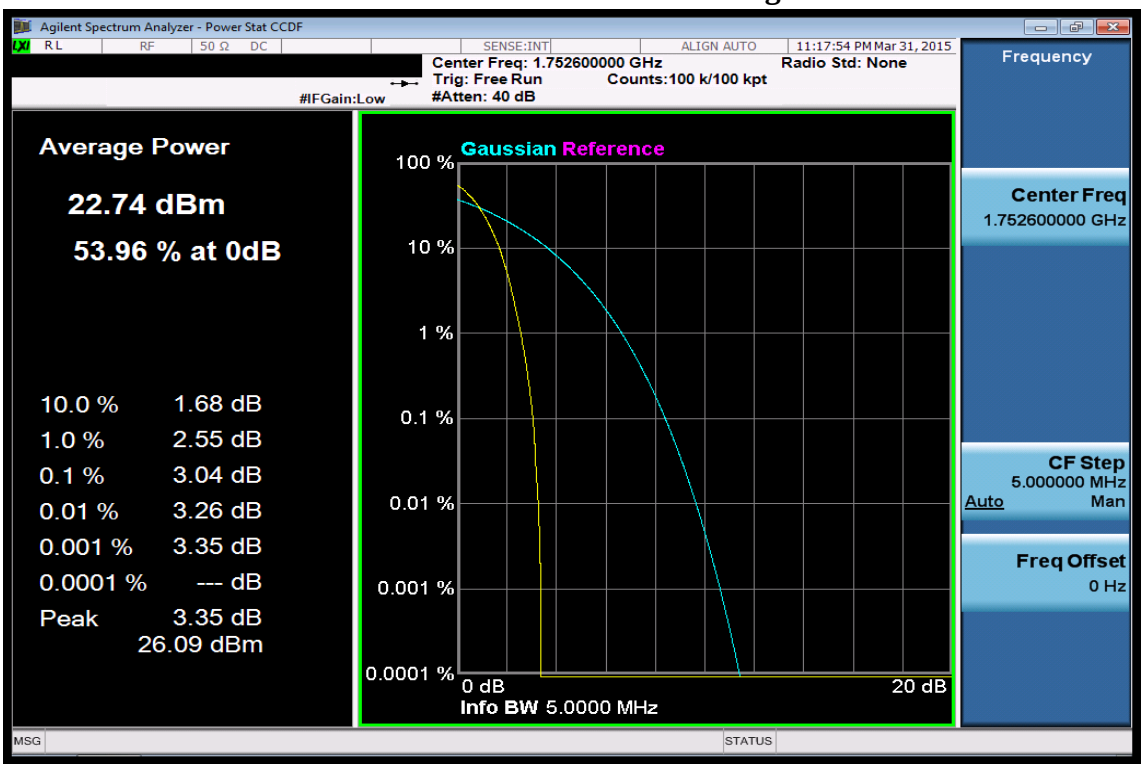
WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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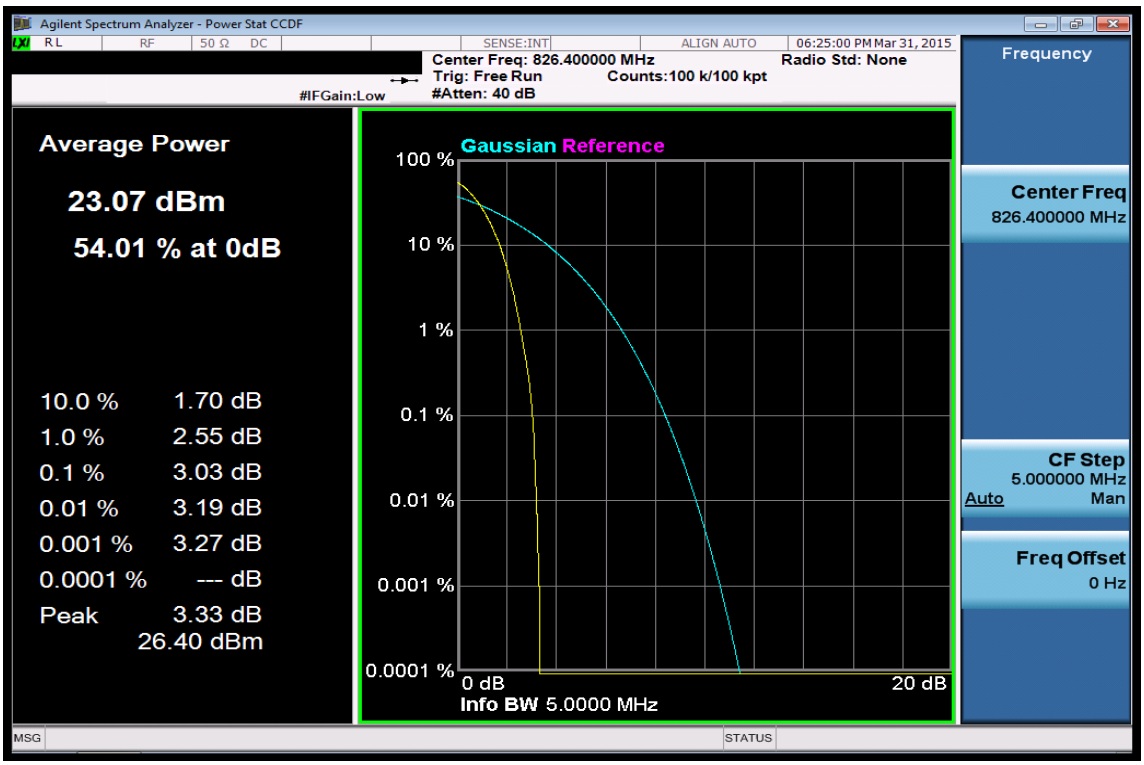
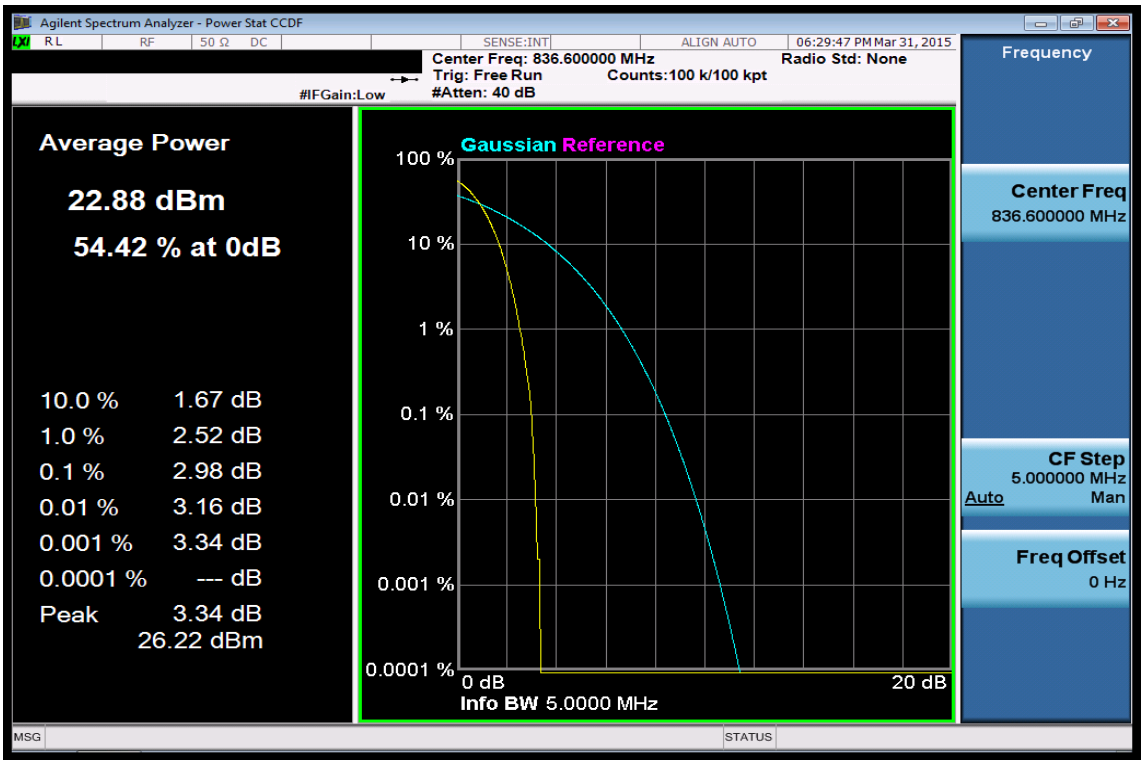
WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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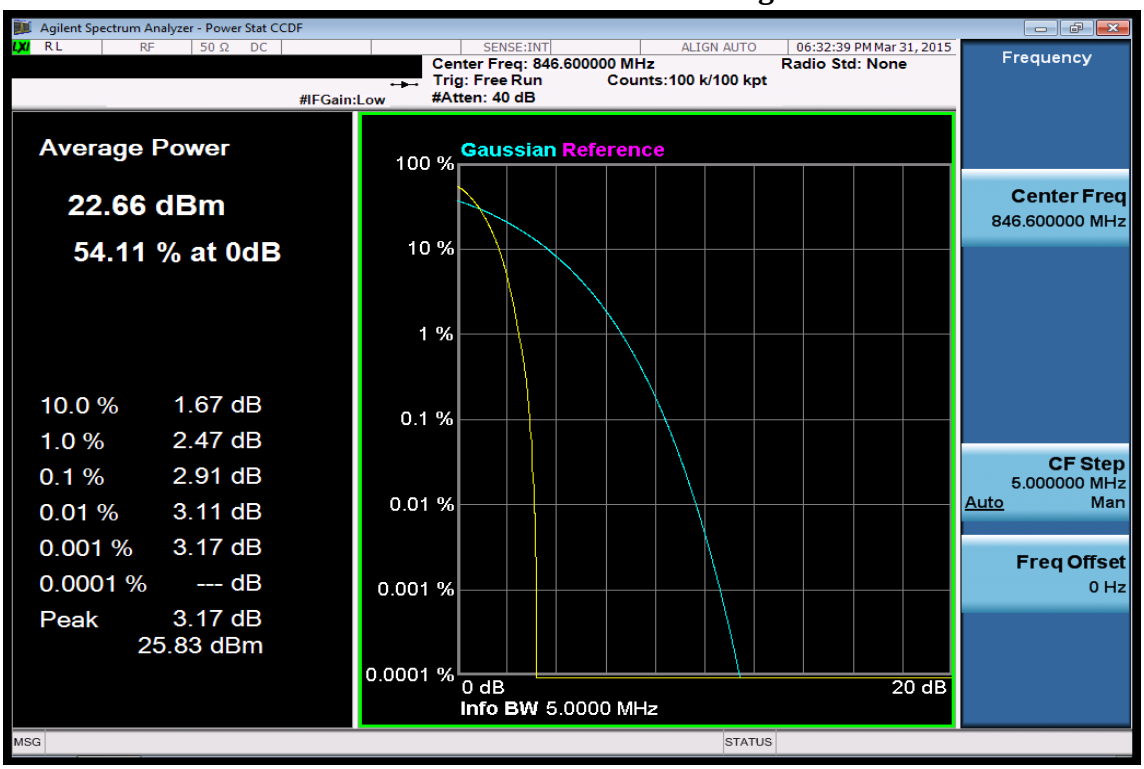
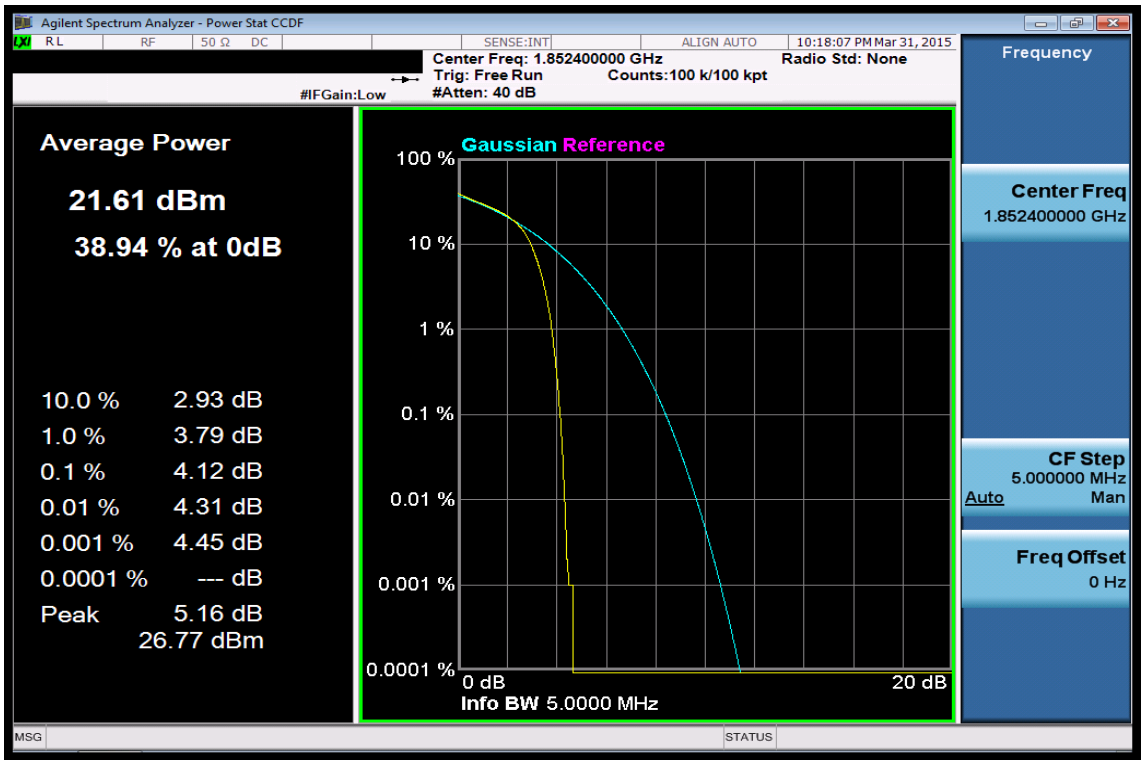
WCDMA Band V Channel High



HSDPA Band II Channel Low



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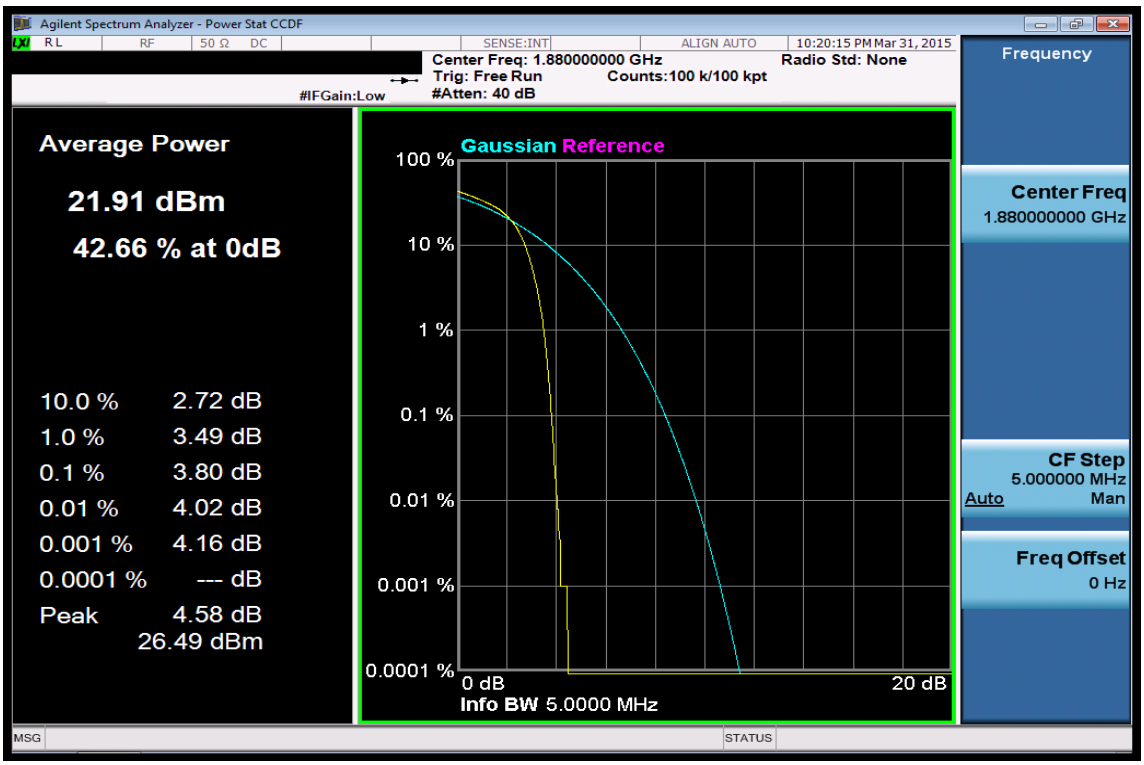
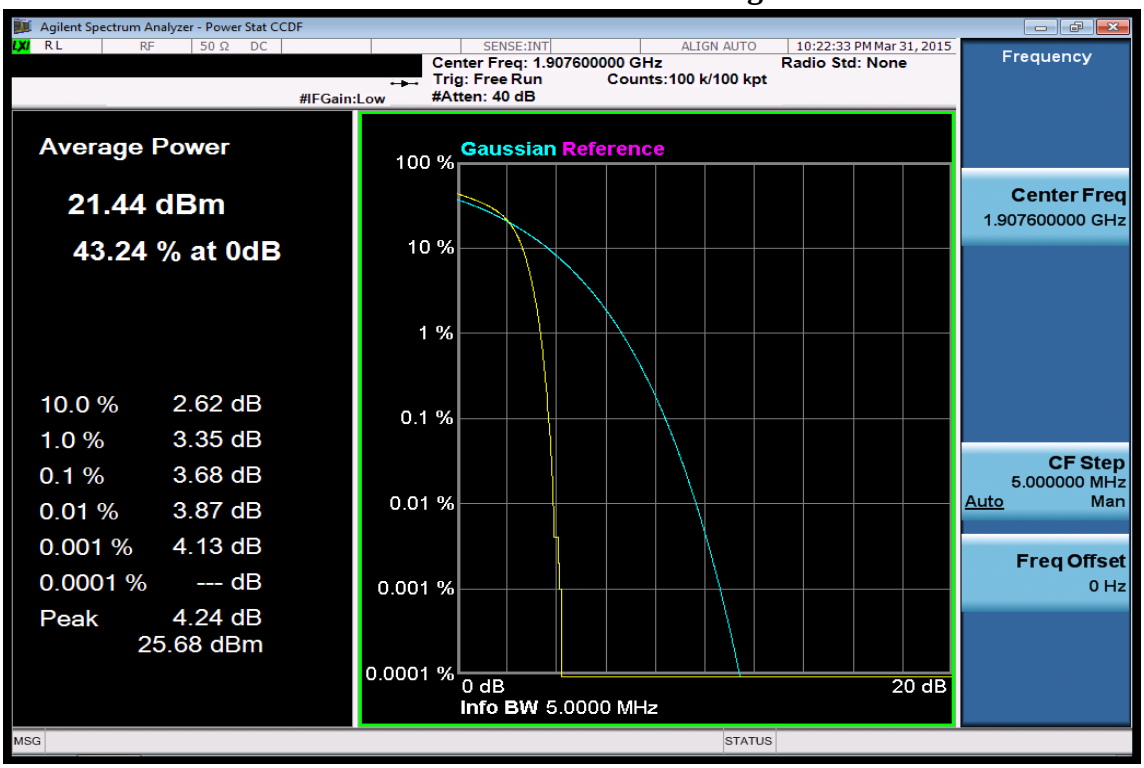
HSDPA Band II Channel Mid



HSDPA Band II Channel High



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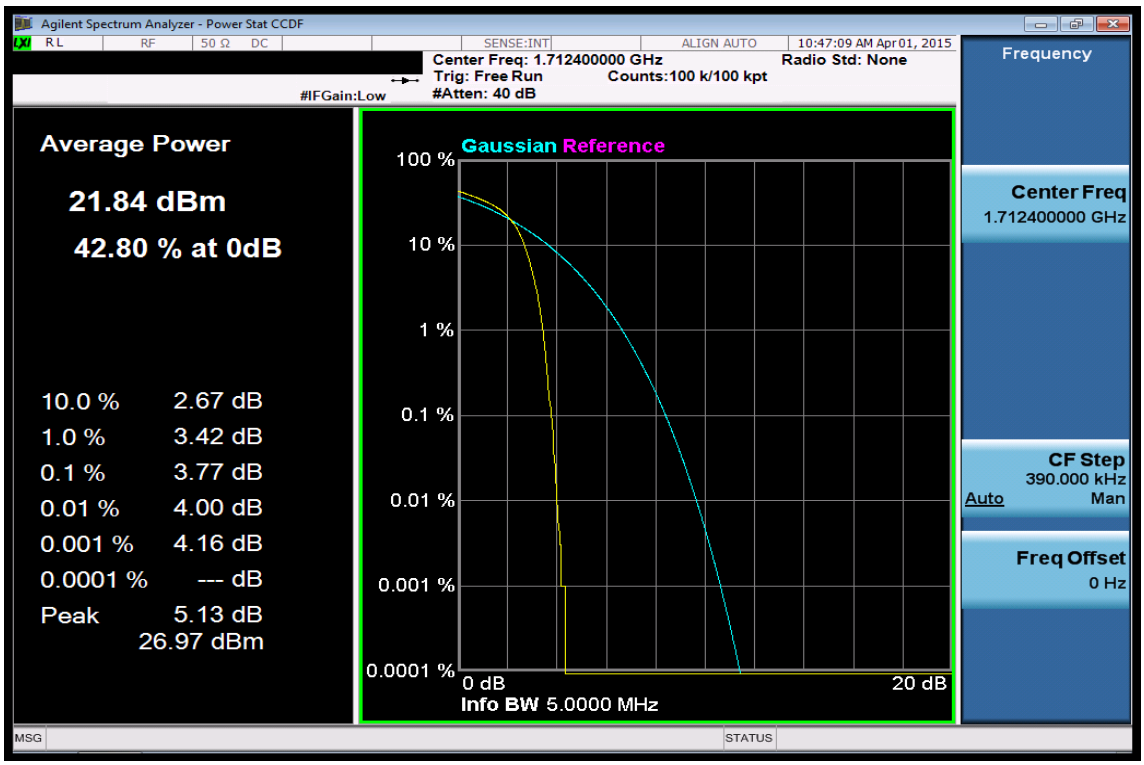
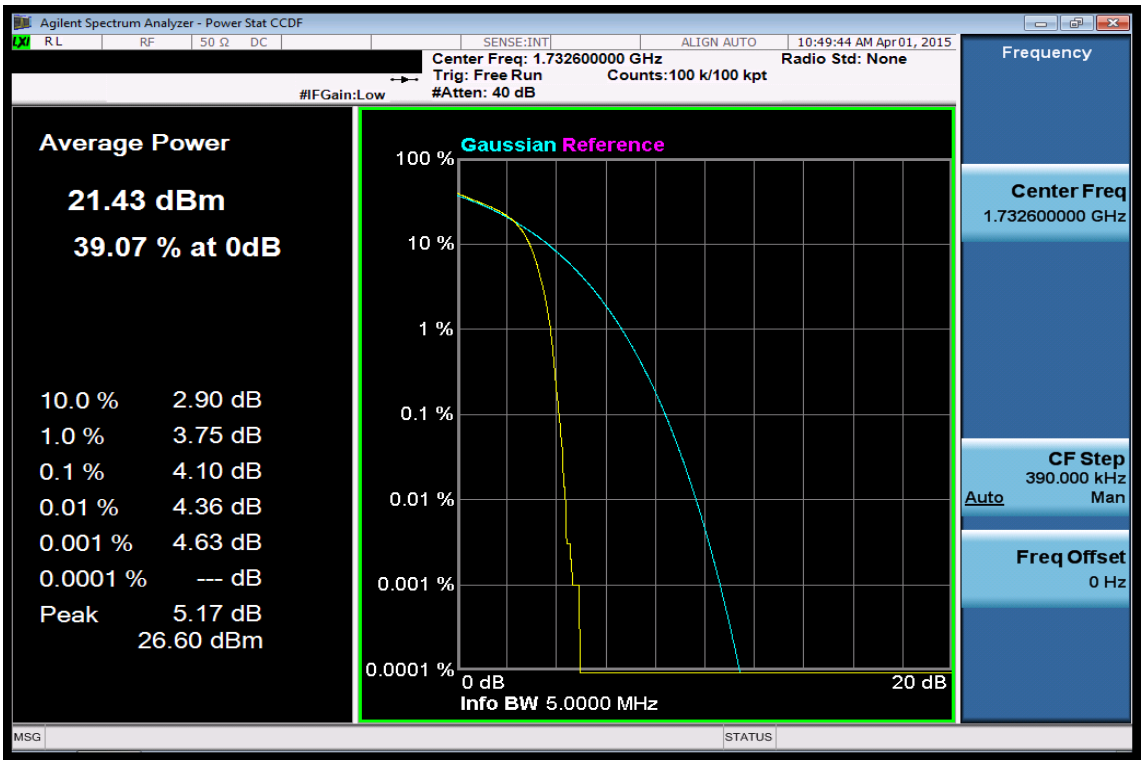
HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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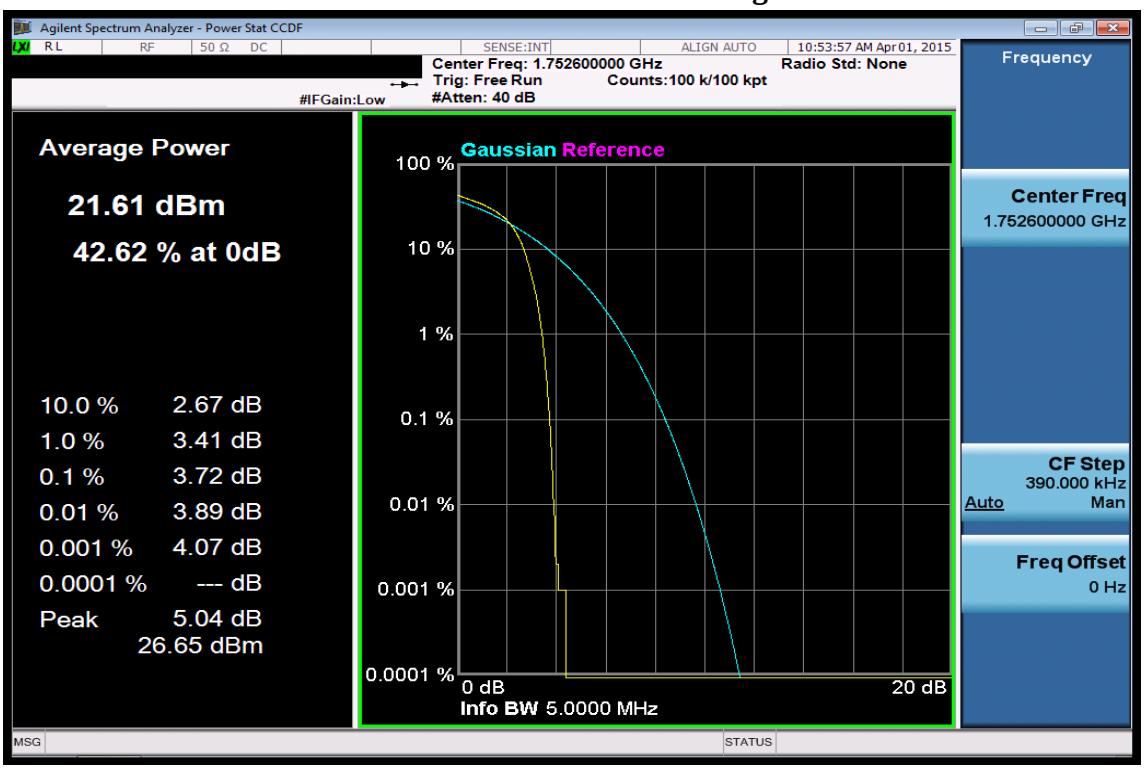
HSDPA Band IV Channel High



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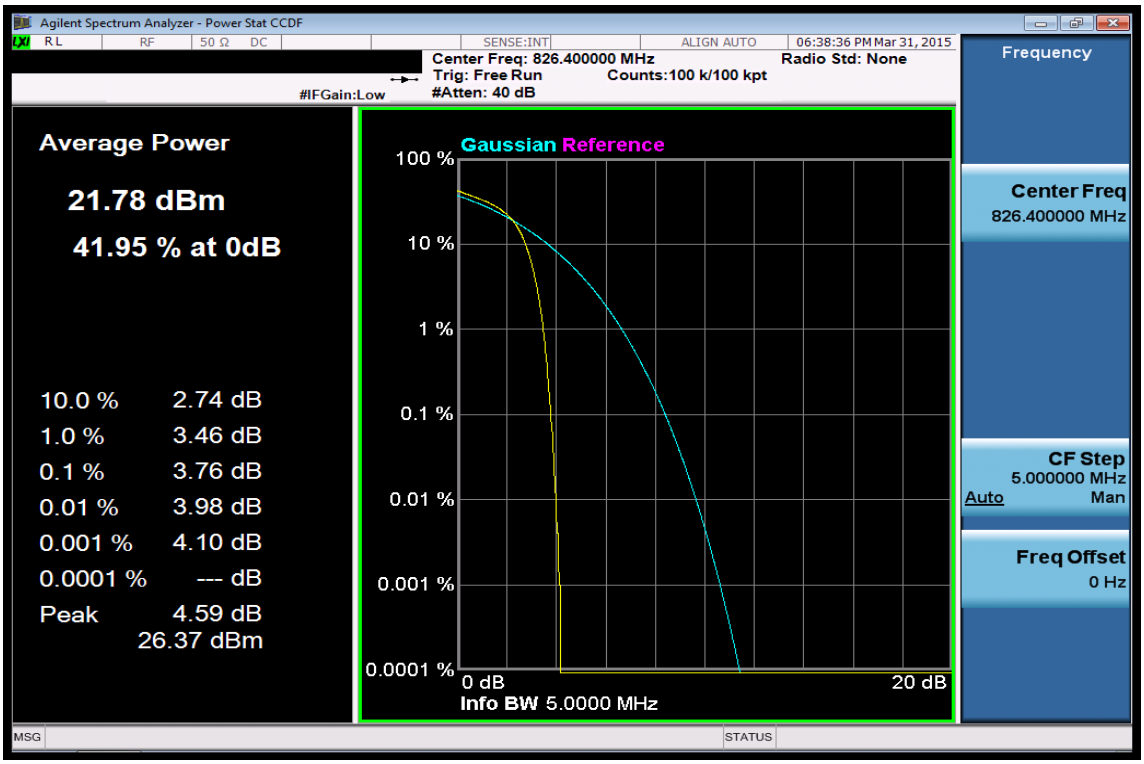

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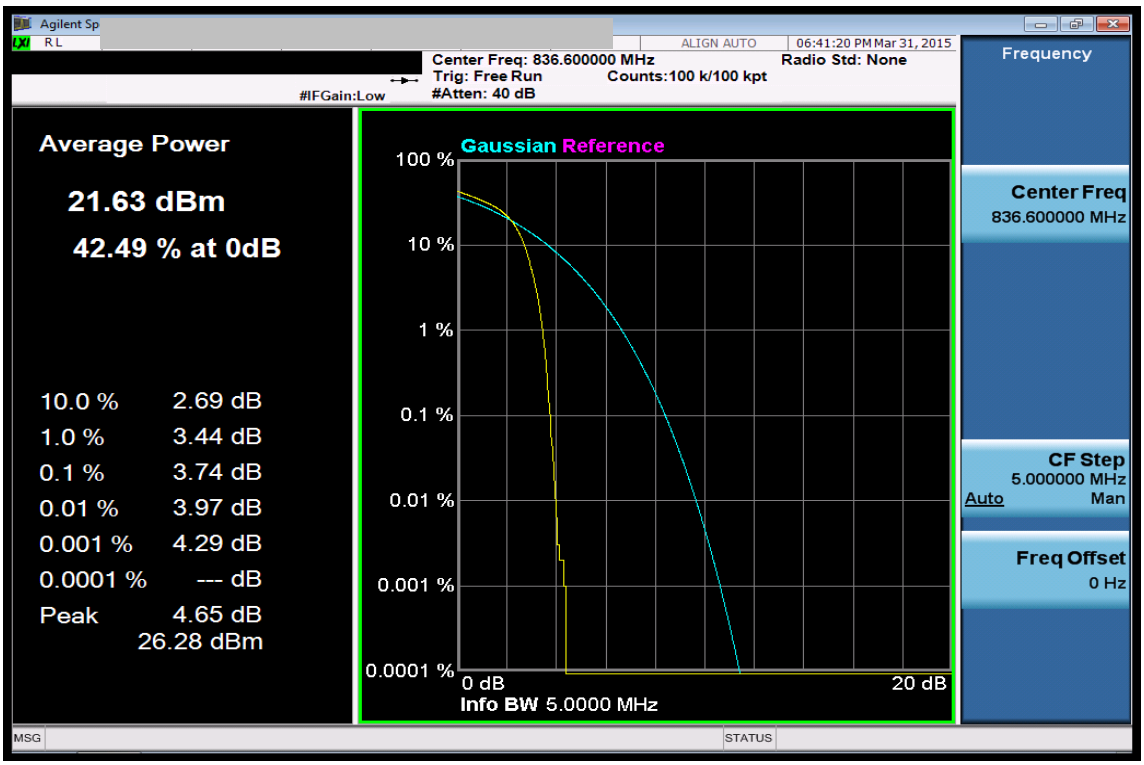
HSDPA Band V Channel Mid



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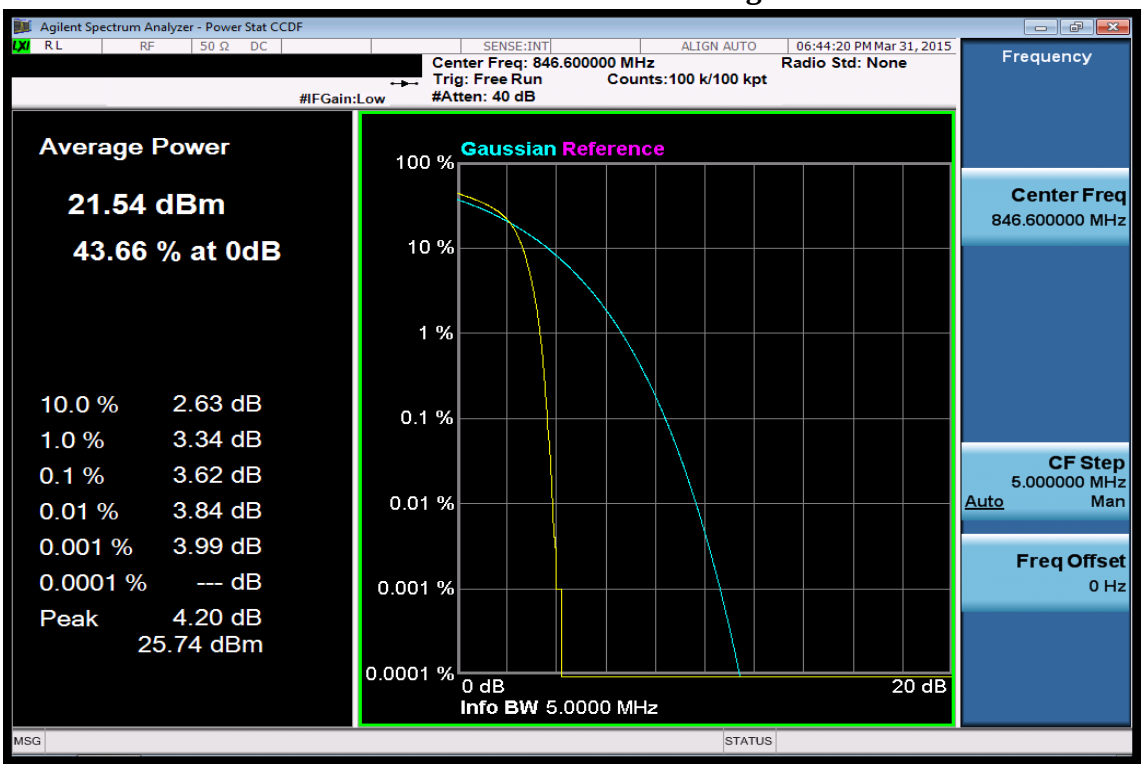

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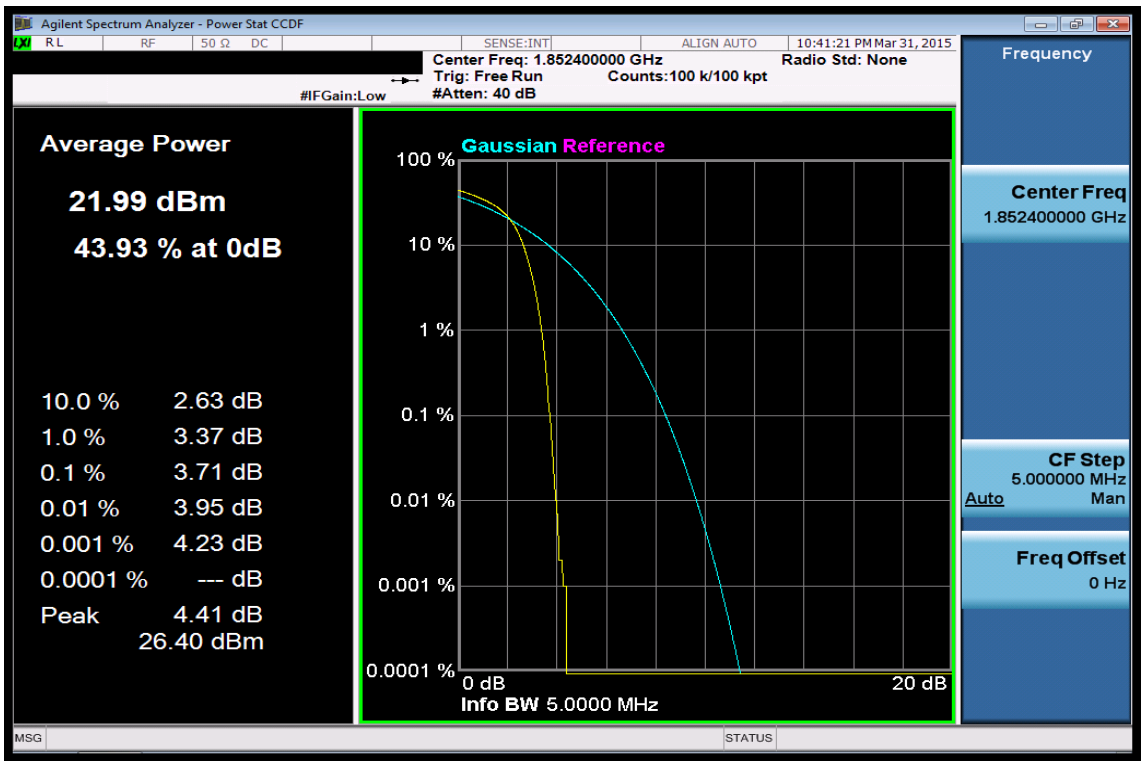
HSUPA Band II Channel Low



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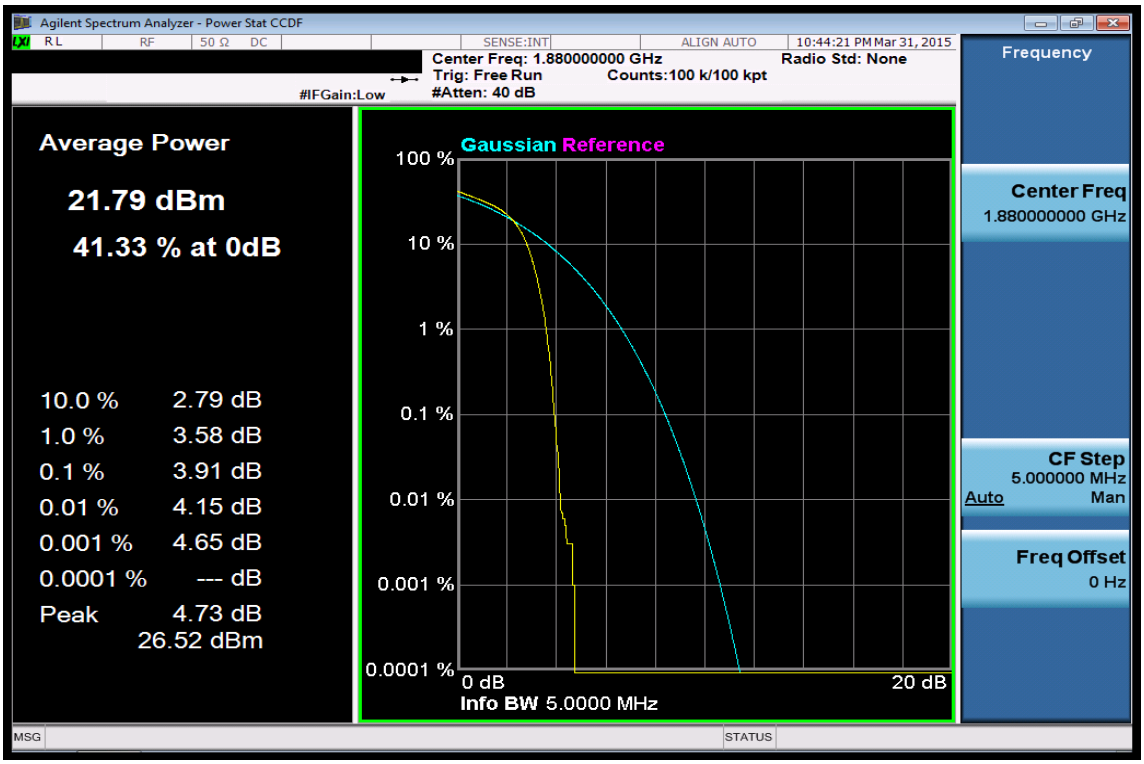

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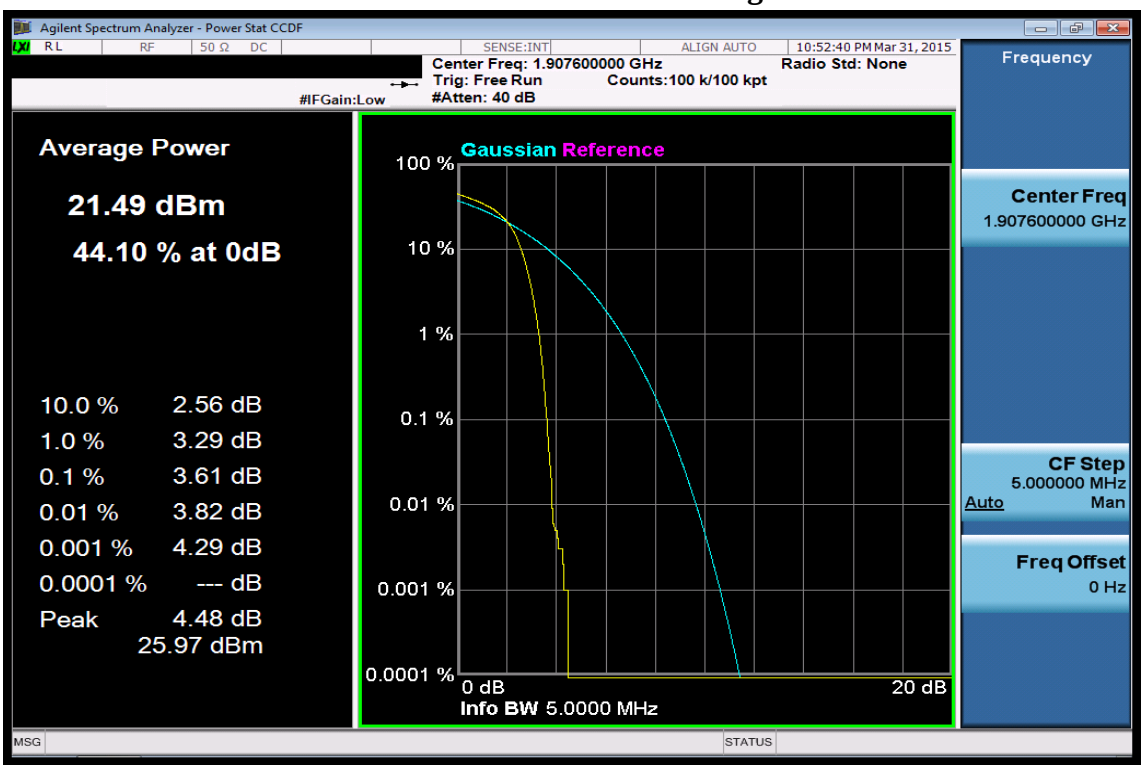
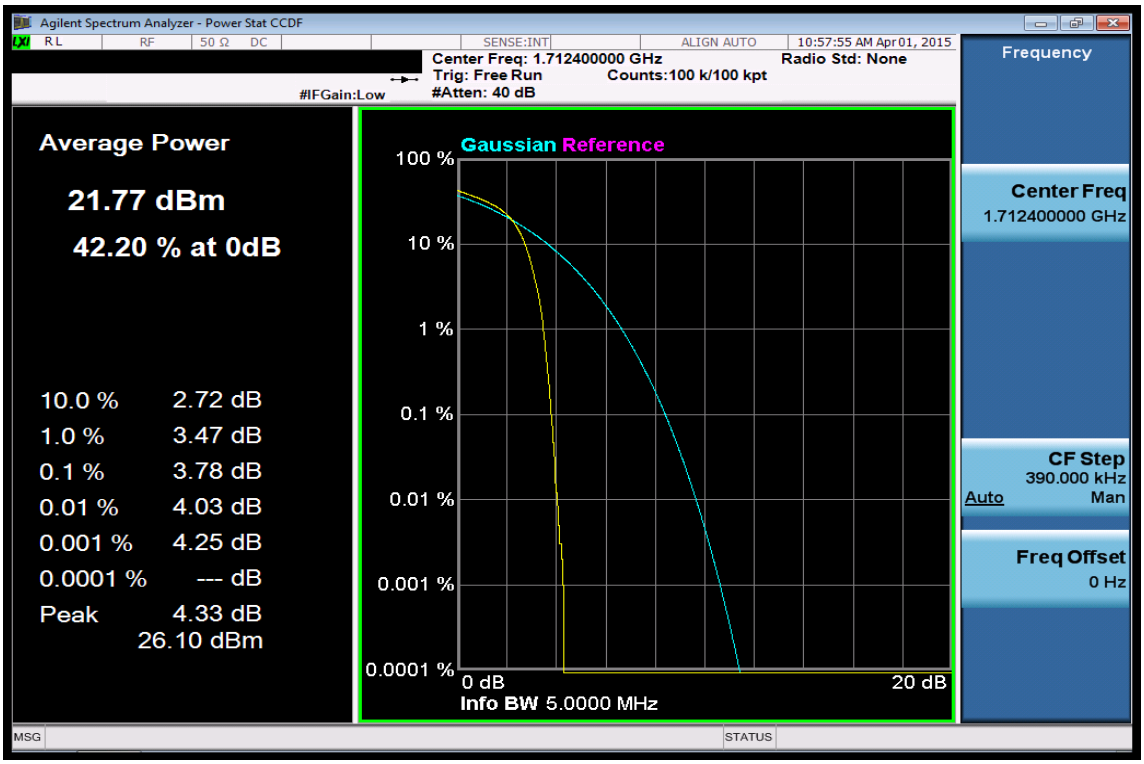
HSUPA Band II Channel High



HSUPA Band IV Channel Low



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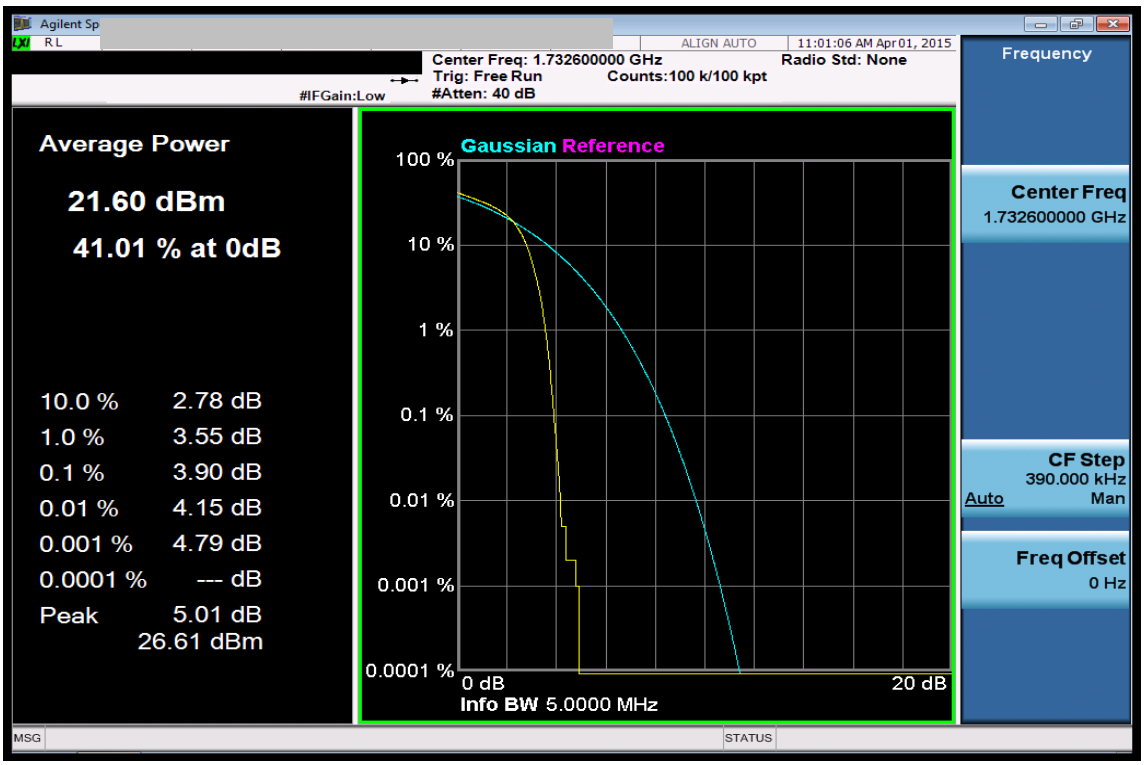
HSUPA Band IV Channel Mid



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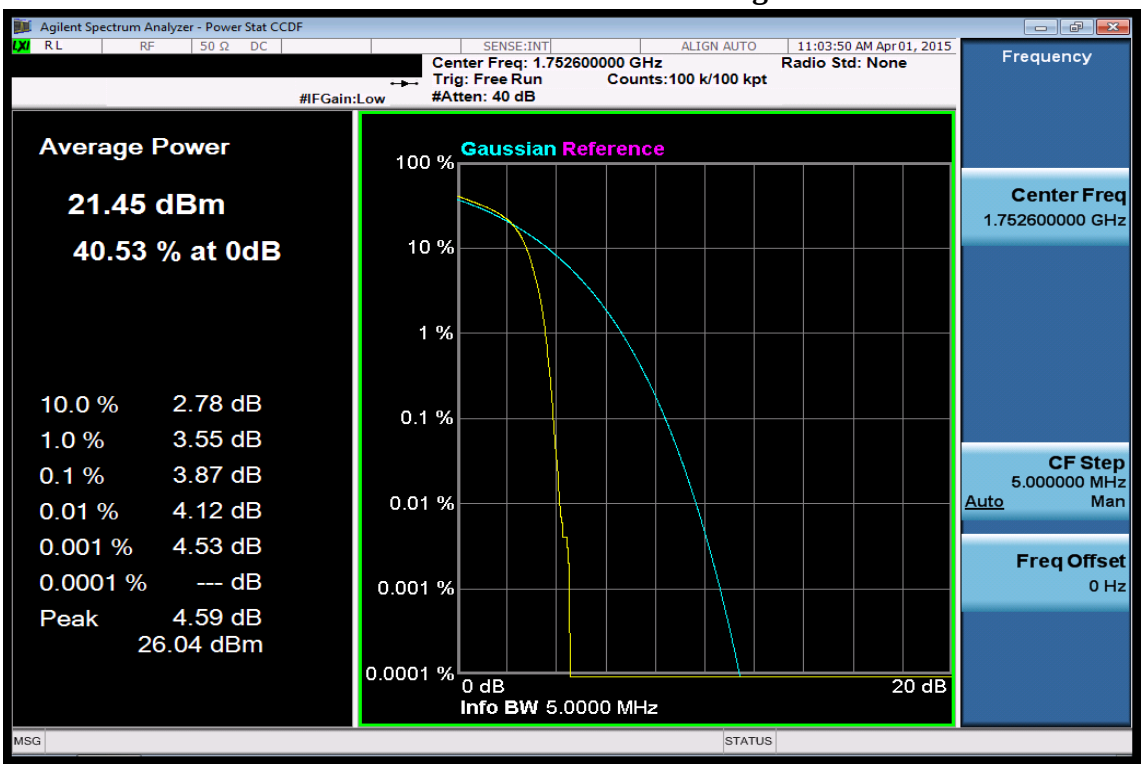

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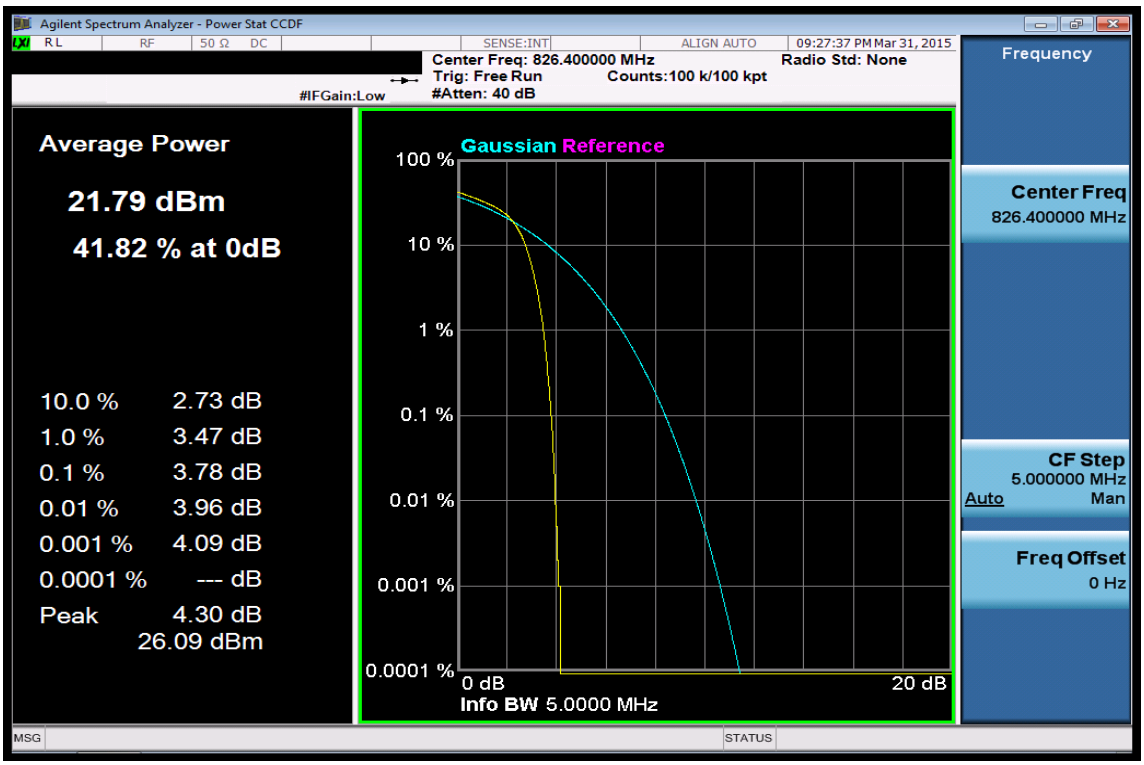
HSUPA Band V Channel Low



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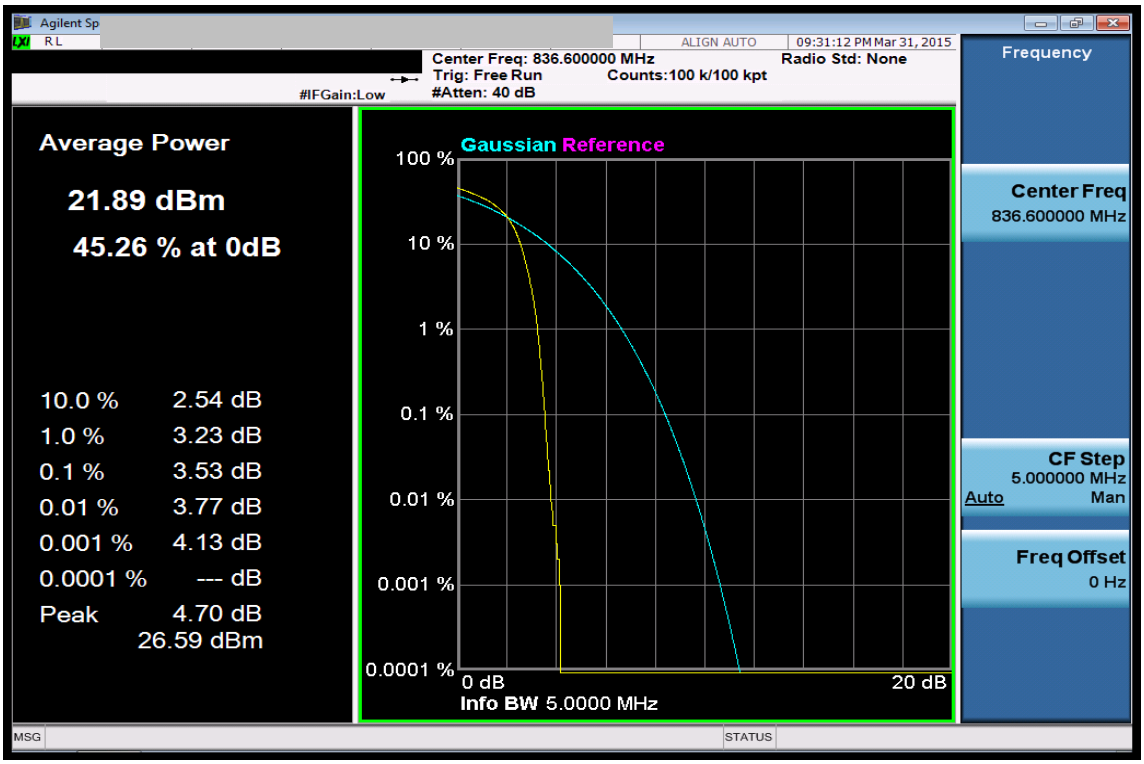

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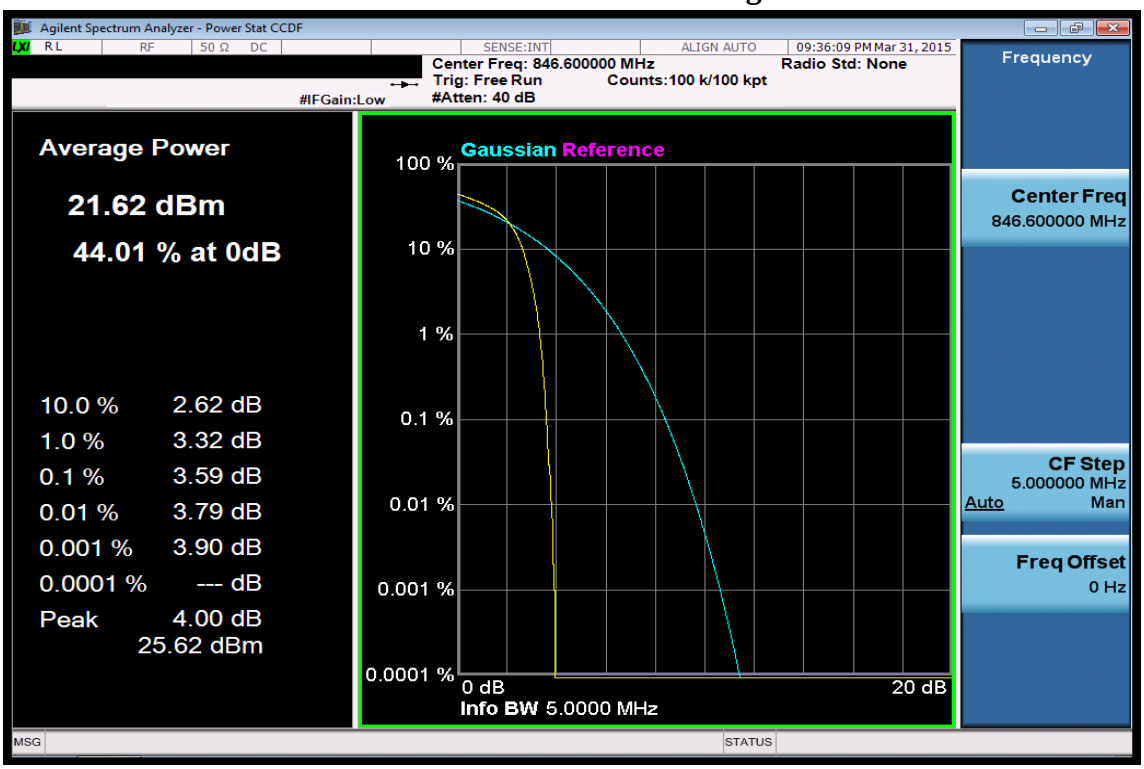

~ End of Report ~

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