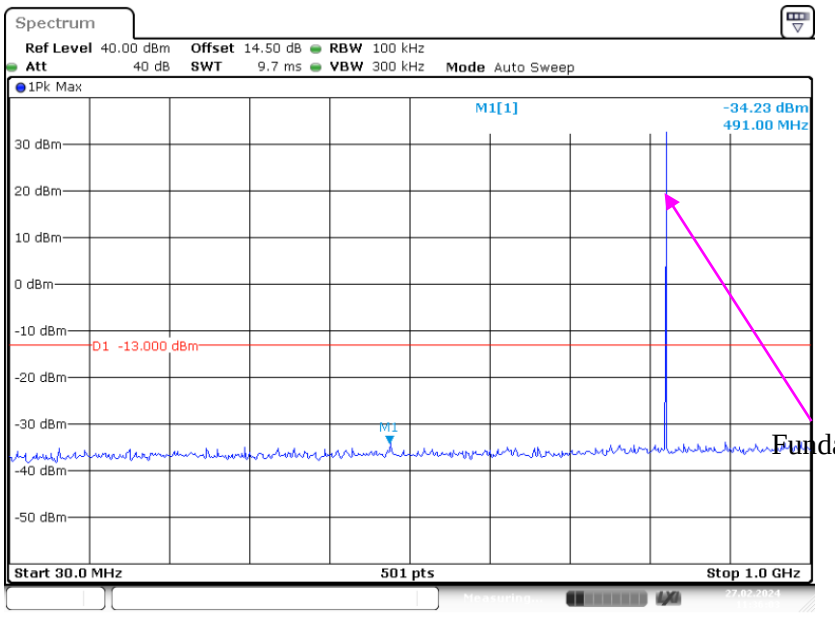
SPURIOUS EMISSIONS AT ANTENNA TERMINALS

EUT operation mode: Transmitting
Test Result: Compliance

GPRS 850 Band:

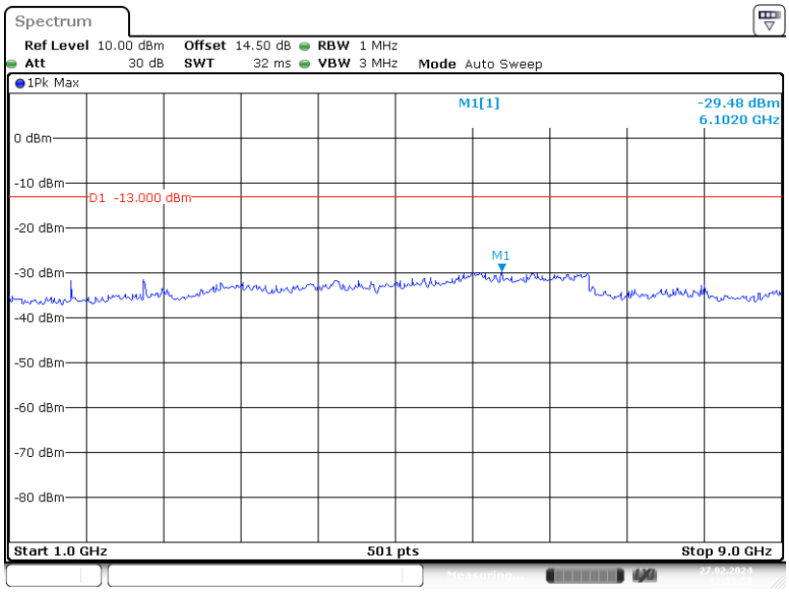
30 MHz – 1GHz (GPRS Mode), Low channel



Fundamental

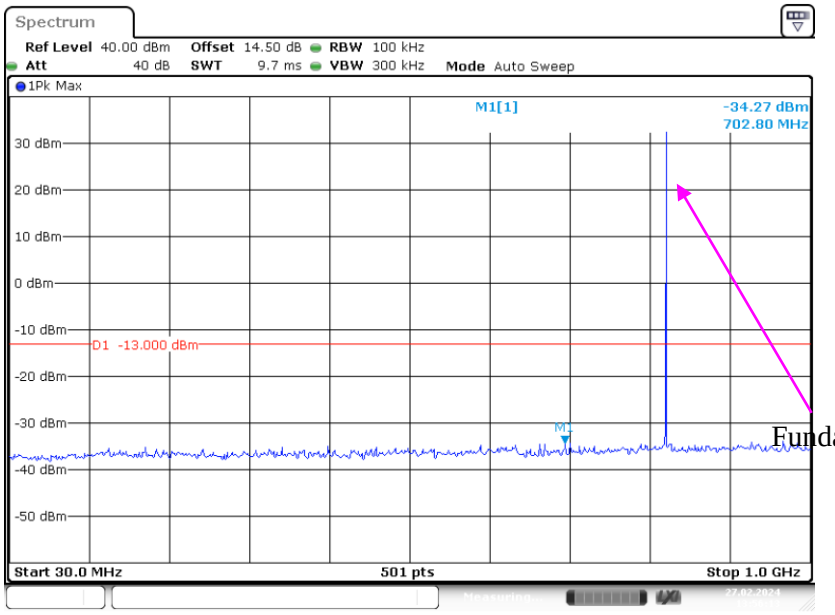
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:36:02

1 GHz – 9 GHz (GPRS Mode), Low channel



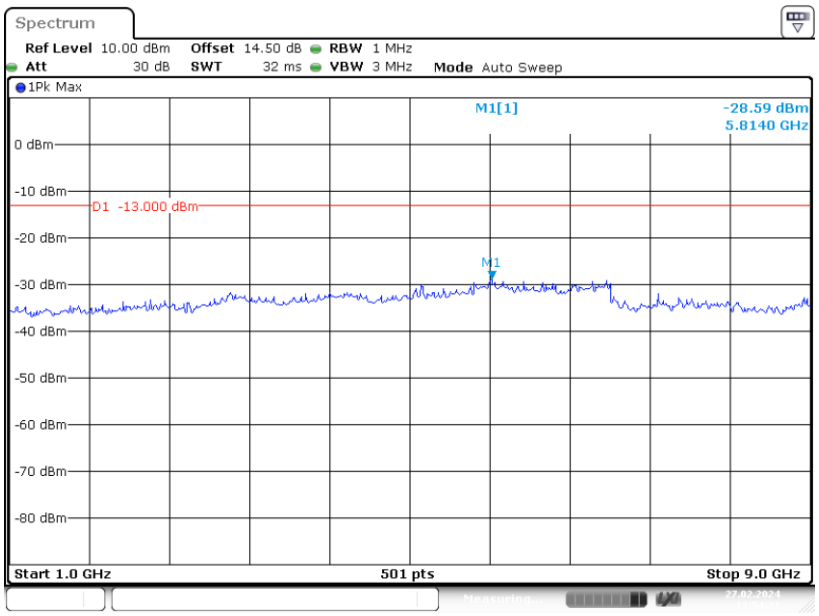
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:39:58

30 MHz – 1GHz (EGPRS Mode), Low channel



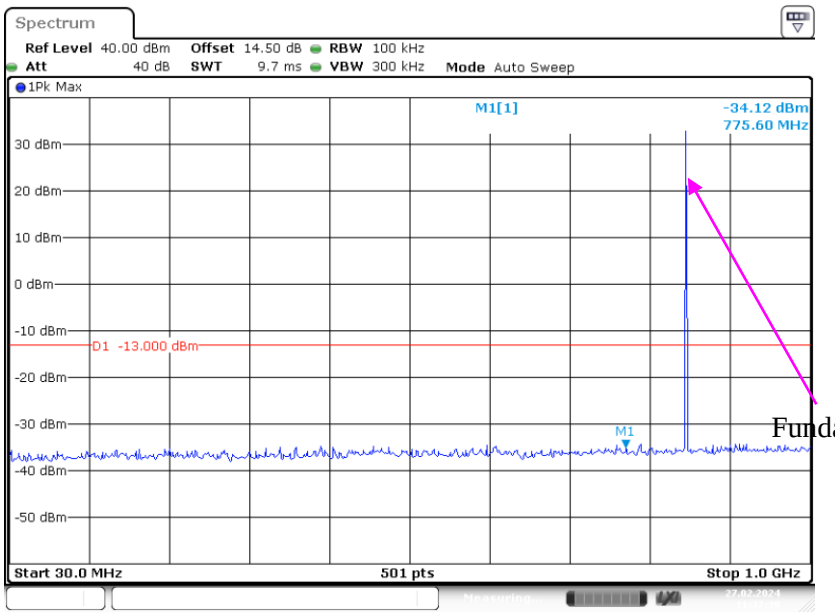
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:56:13

1 GHz – 9 GHz (EGPRS Mode), Low channel



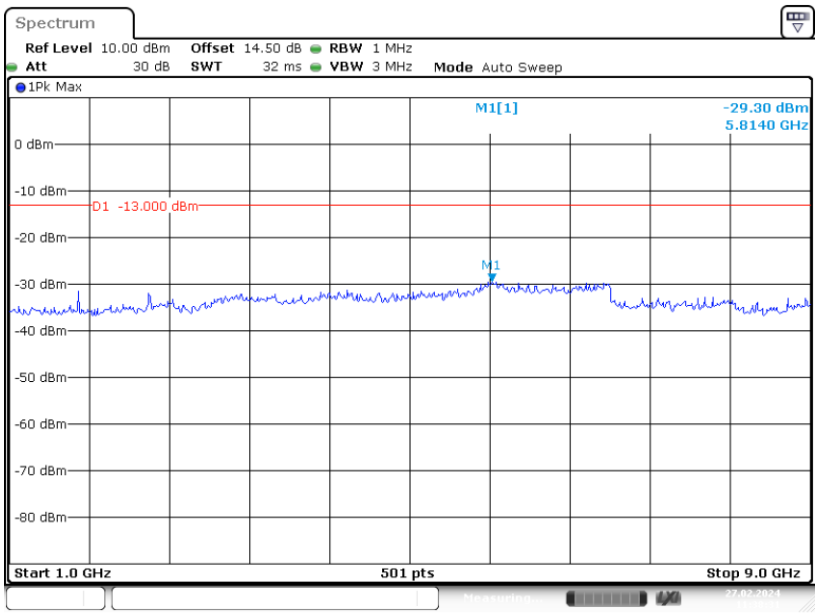
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:54:22

30 MHz – 1GHz (GPRS Mode), Middle channel



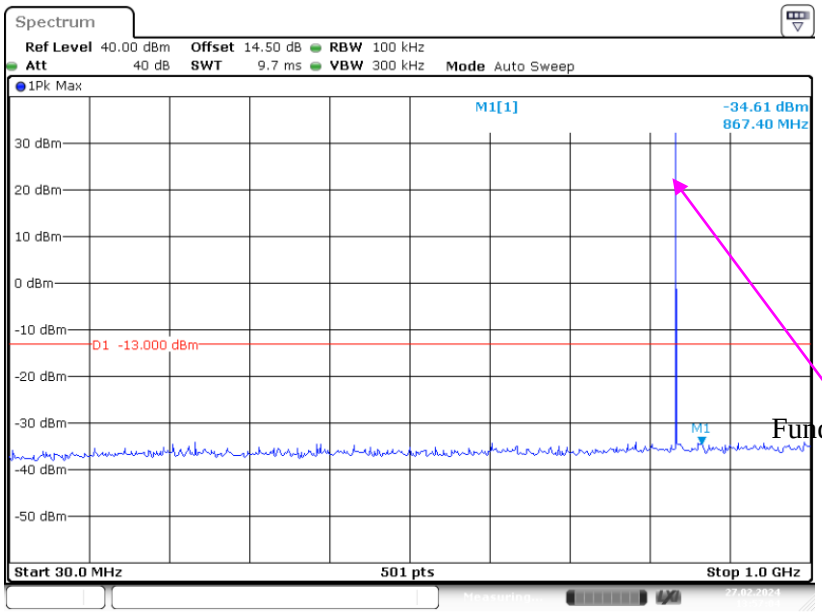
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:37:39

1 GHz – 9 GHz (GPRS Mode), Middle channel



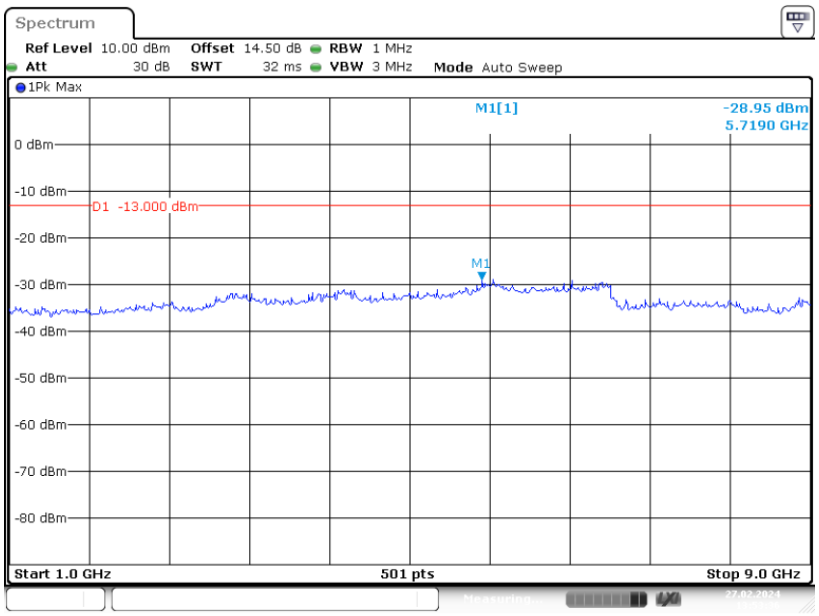
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:38:31

30 MHz – 1GHz (EGPRS Mode), Middle channel



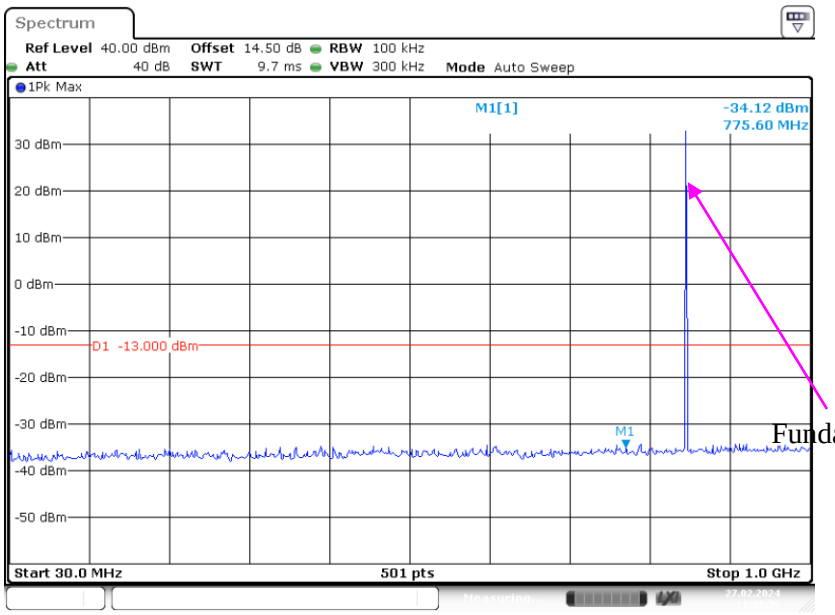
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:57:04

1 GHz – 9 GHz (EGPRS Mode), Middle channel



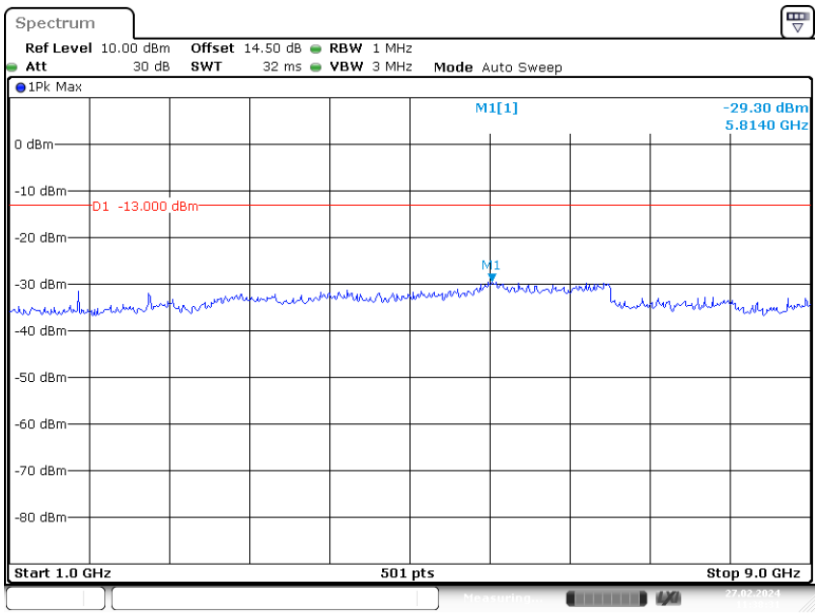
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:53:36

30 MHz – 1GHz (GPRS Mode), High channel



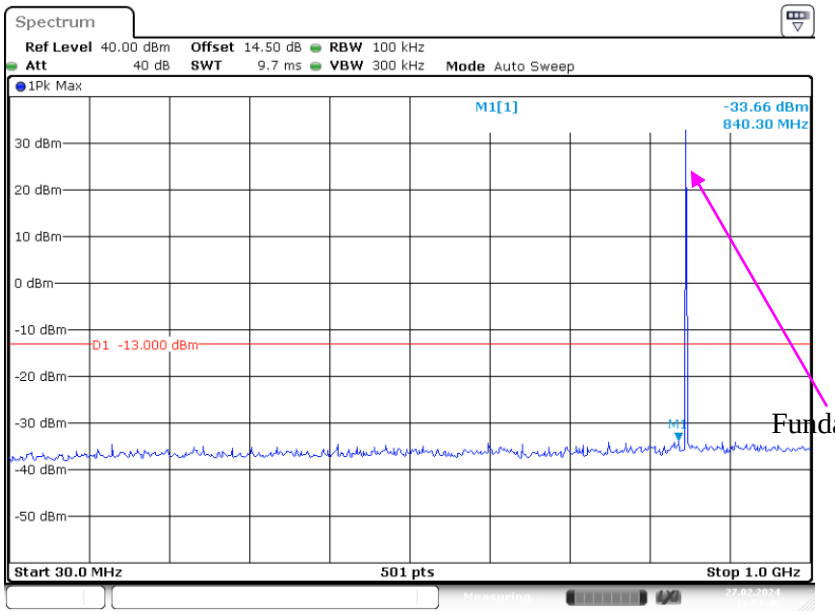
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:37:39

1 GHz – 9 GHz (GPRS Mode), High channel



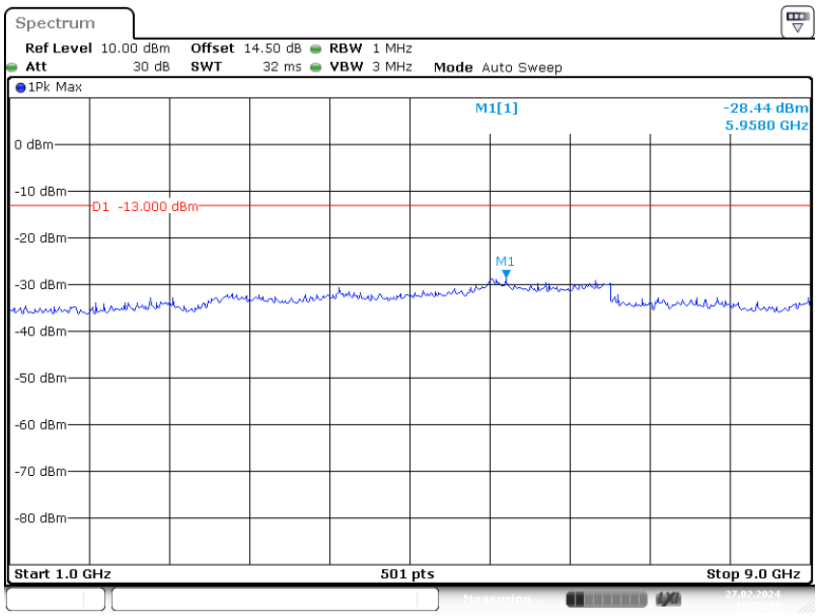
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:38:31

30 MHz – 1GHz (EGPRS Mode), High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:57:46

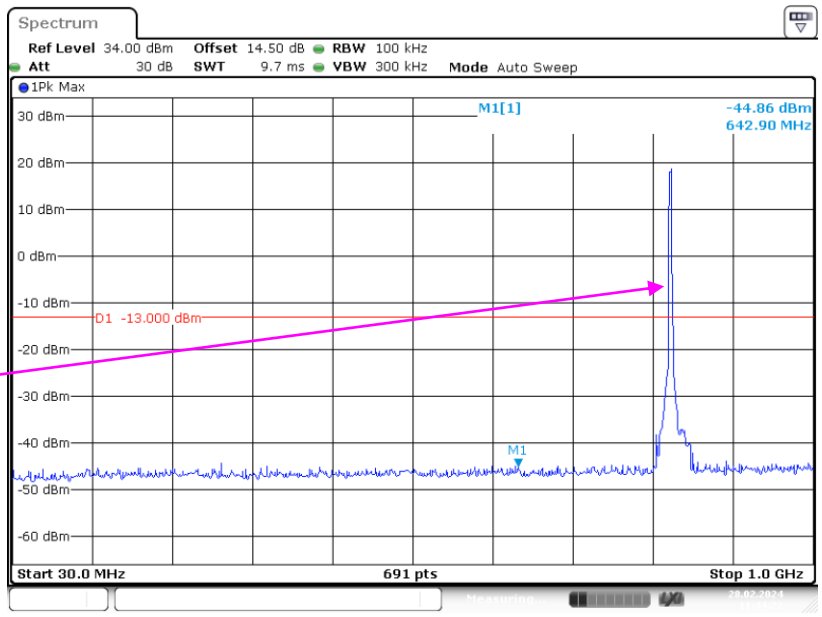
1 GHz – 9 GHz (EGPRS Mode), High channel



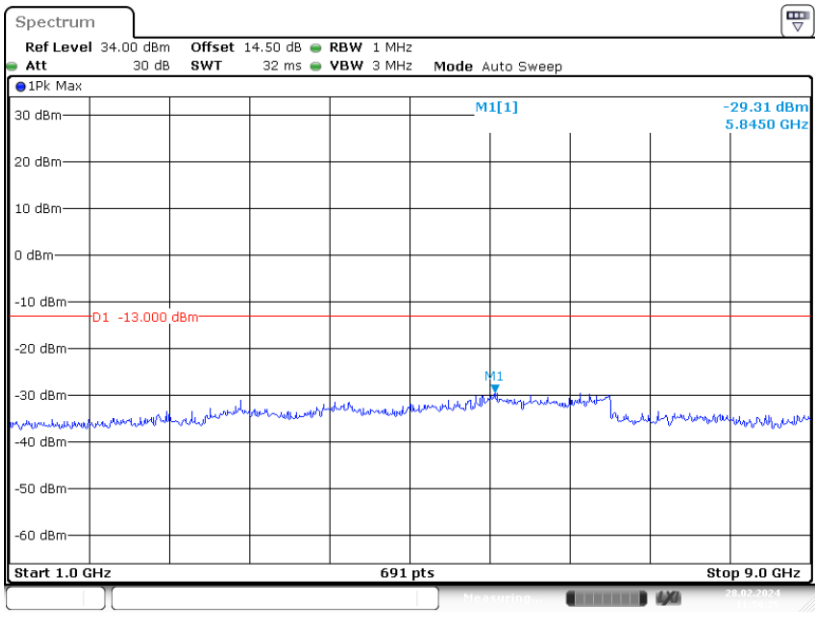
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:52:44

WCDMA Band V:

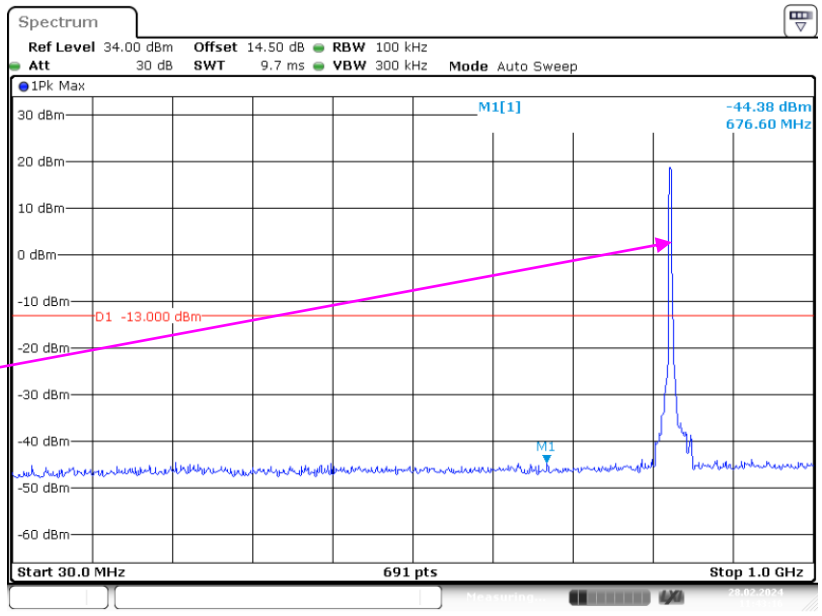
30 MHz – 1GHz WCDMA (Rel 99) Mode, Low channel



1 GHz – 9 GHz WCDMA (Rel 99) Mode, Low channel



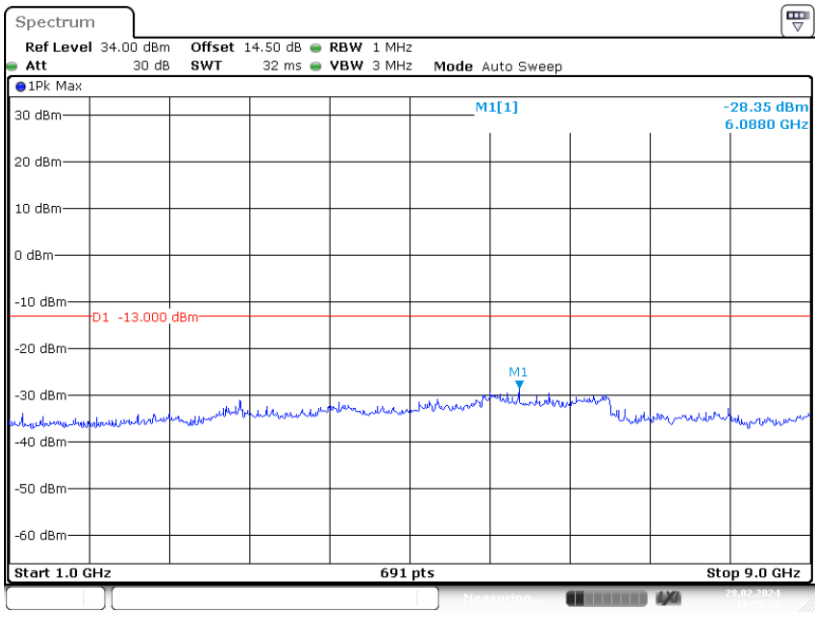
30 MHz – 1GHz WCDMA (HSDPA) Mode, Low channel



Fundamental

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:43:16

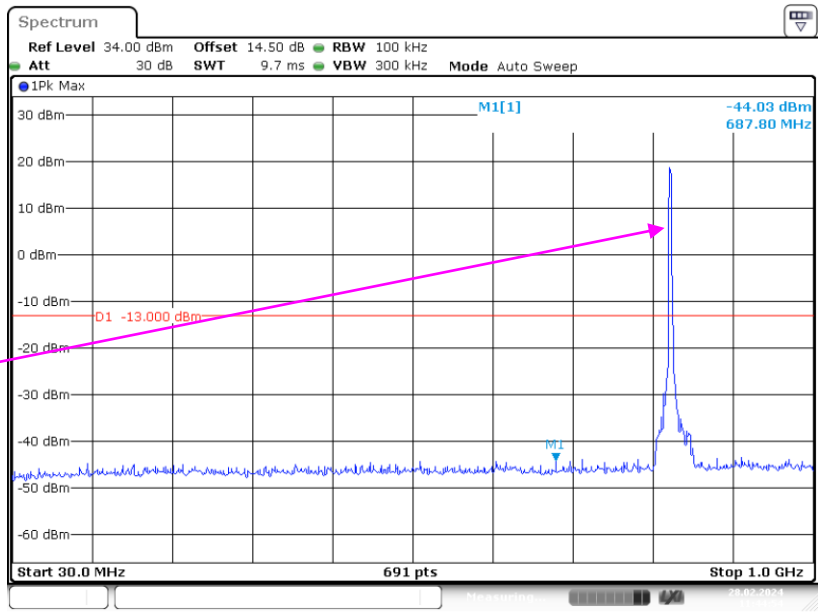
1 GHz – 9 GHz WCDMA (HSDPA) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:55:32

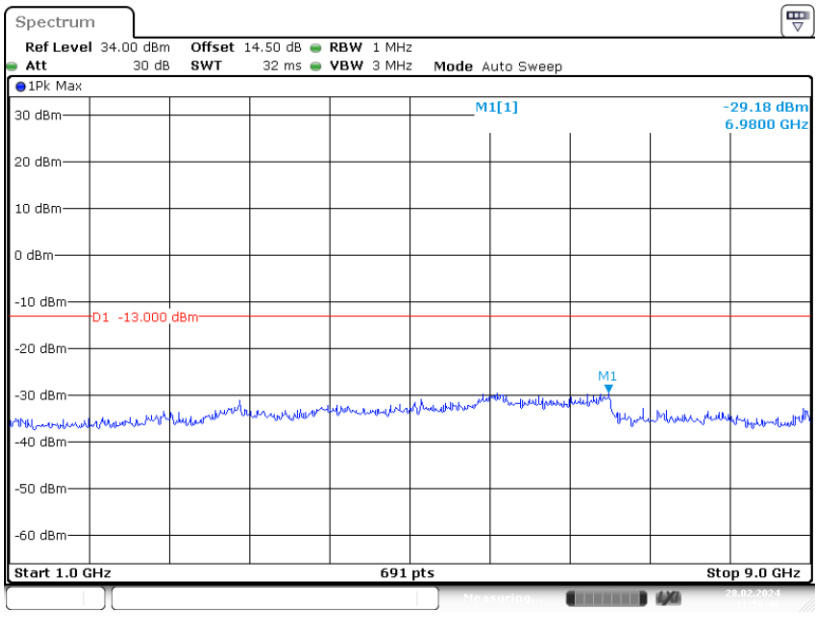
30 MHz – 1GHz WCDMA (HSUPA) Mode, Low channel

Fundamental



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:44:54

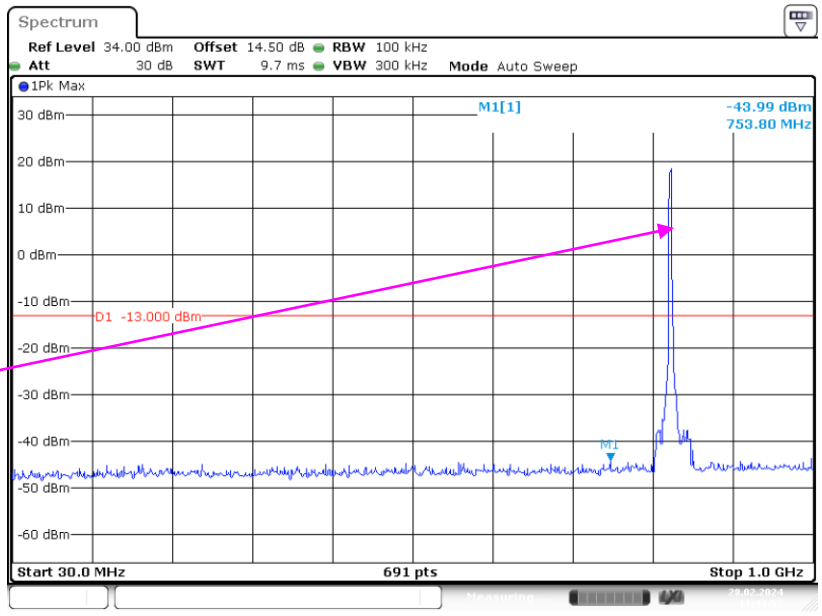
1 GHz – 9 GHz WCDMA (HSUPA) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:56:46

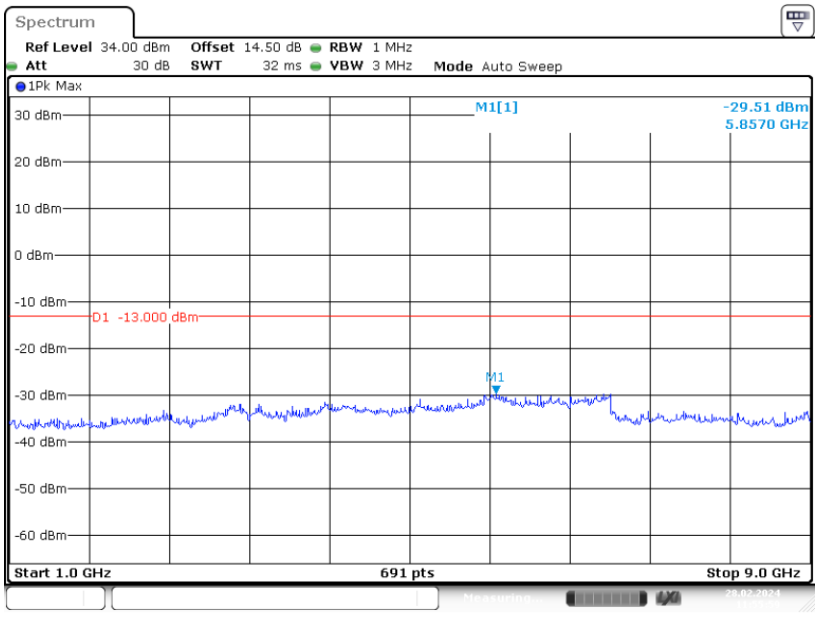
30 MHz – 1GHz WCDMA (HSPA+) Mode, Low channel

Fundamental



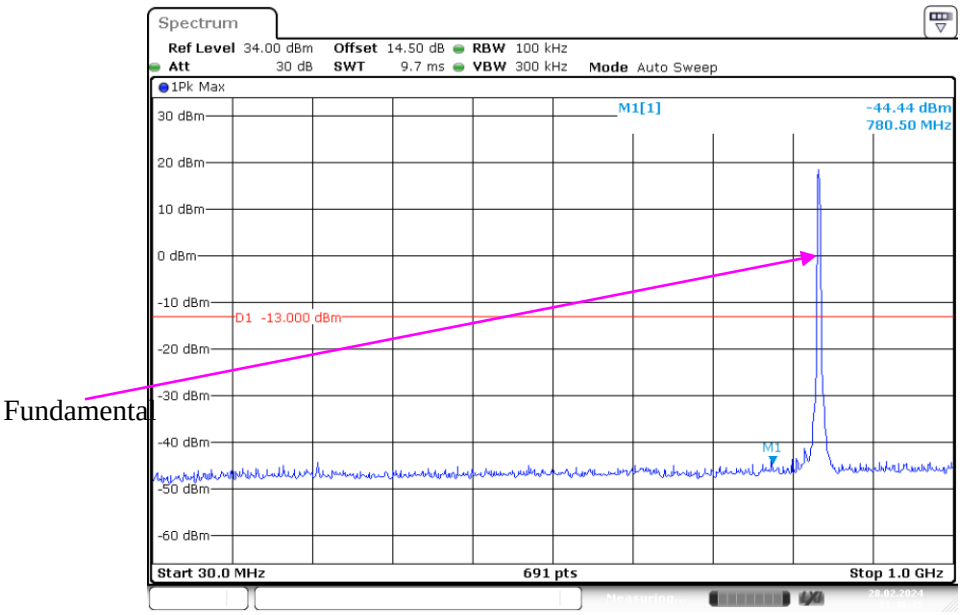
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:43:52

1 GHz – 9 GHz WCDMA (HSPA+) Mode, Low channel



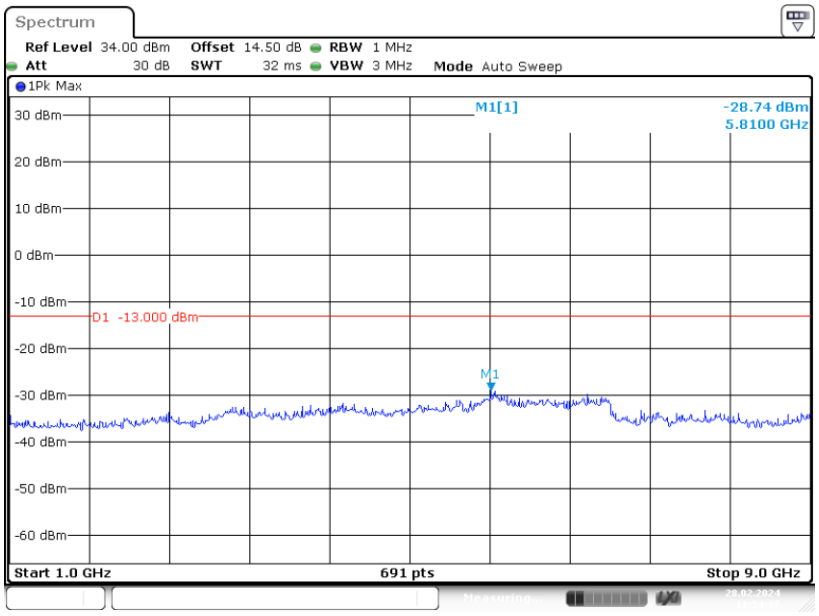
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:55:59

30 MHz – 1GHz WCDMA (Rel 99) Mode, Middle channel



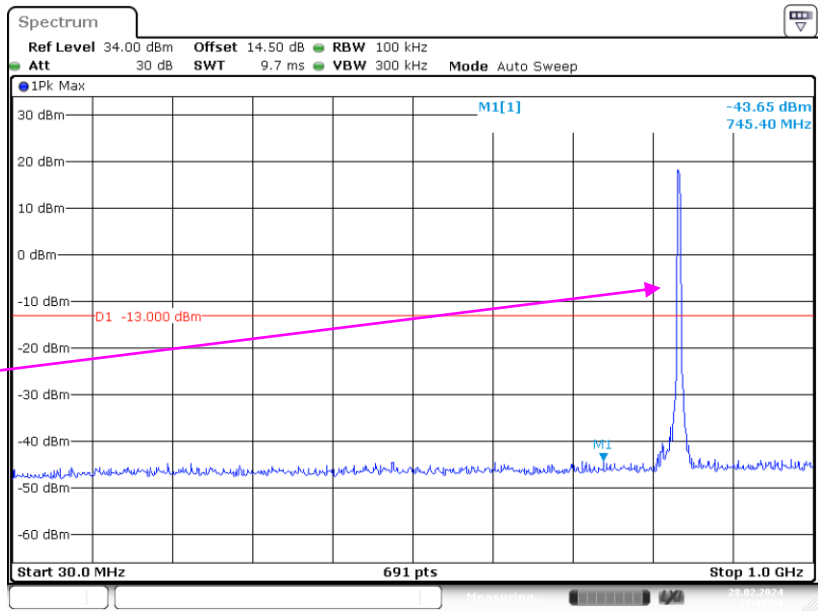
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:46:36

1 GHz – 9 GHz WCDMA (Rel 99) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:54:37

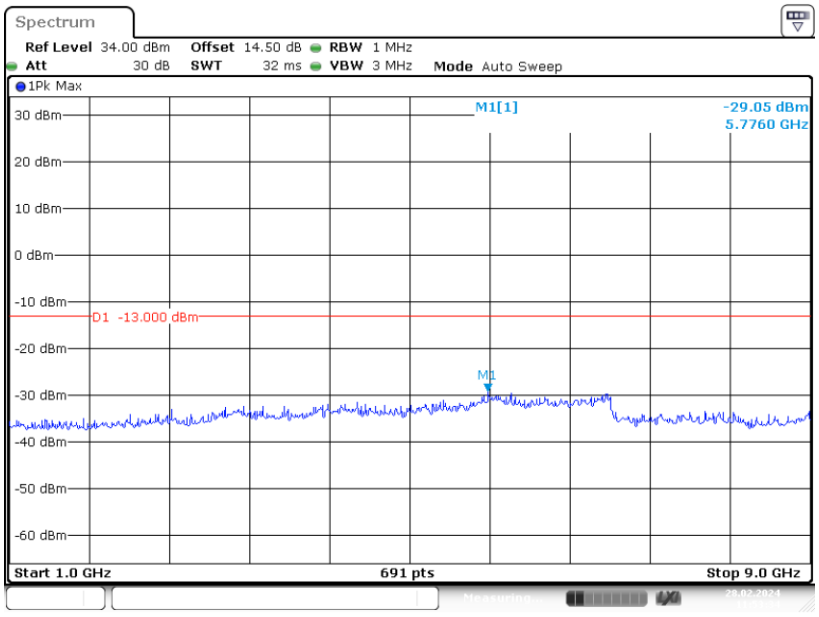
30 MHz – 1GHz WCDMA (HSDPA) Mode, Middle channel



Fundamental

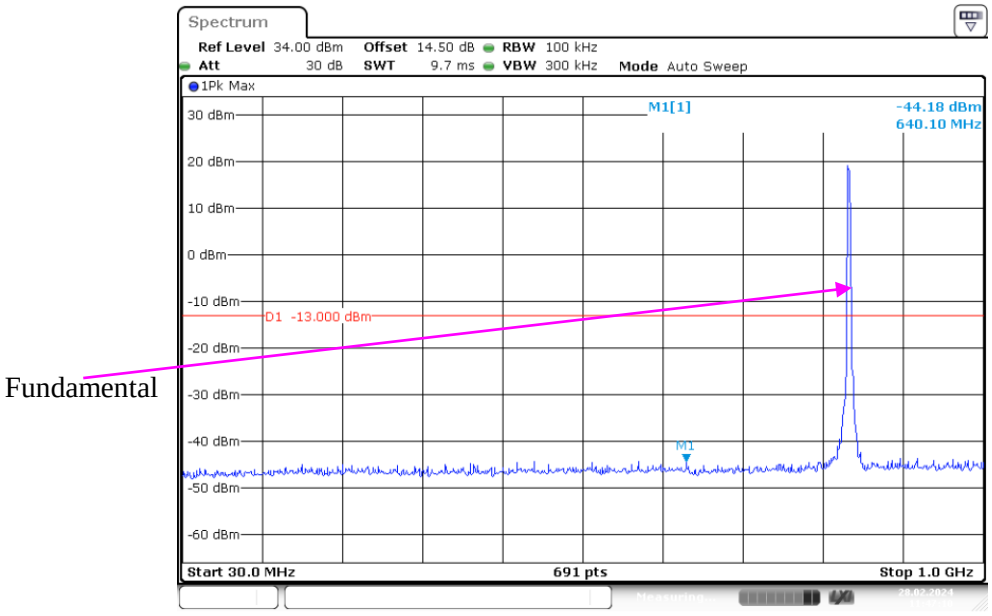
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:45:35

1 GHz – 9 GHz WCDMA (HSDPA) Mode, Middle channel



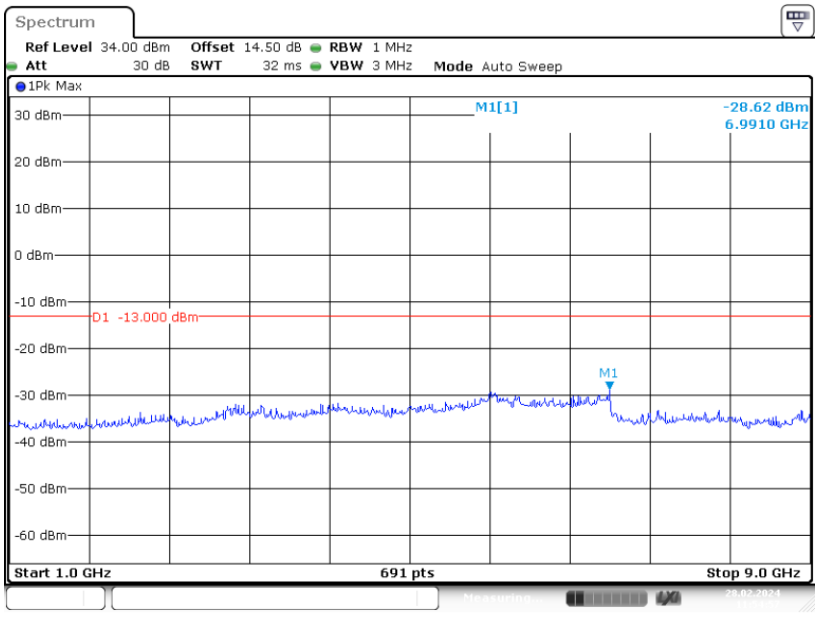
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:53:34

30 MHz – 1GHz WCDMA (HSUPA) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:47:10

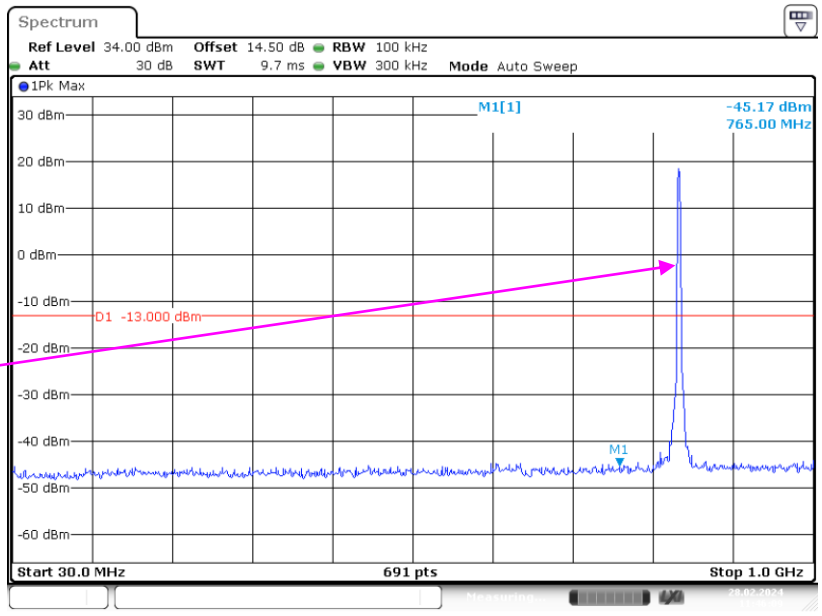
1 GHz – 9 GHz WCDMA (HSUPA) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:54:58

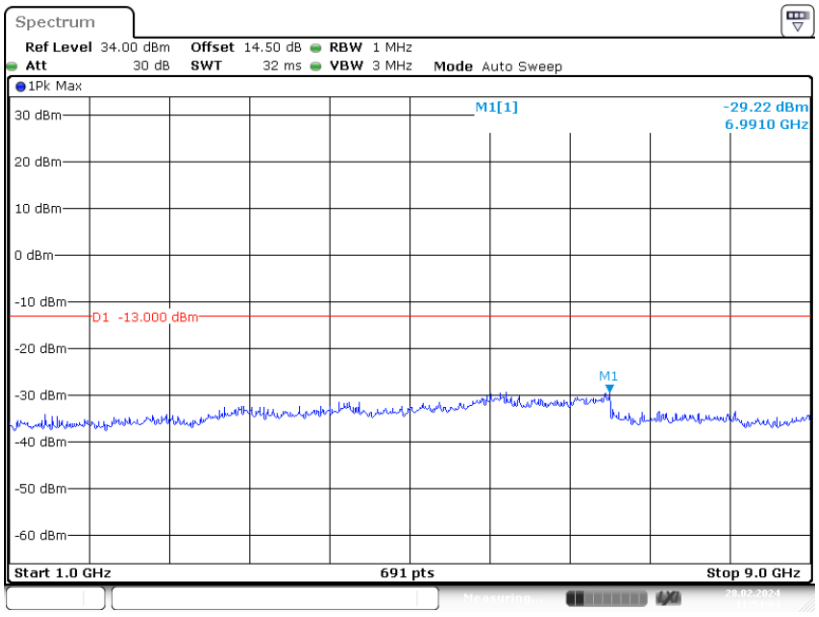
30 MHz – 1GHz WCDMA (HSPA+) Mode, Middle channel

Fundamental



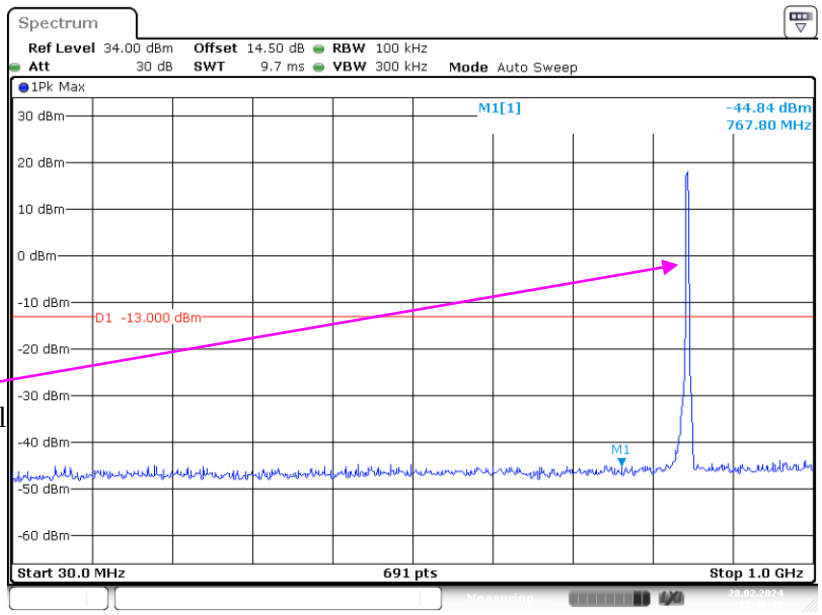
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:46:10

1 GHz – 9 GHz WCDMA (HSPA+) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:54:05

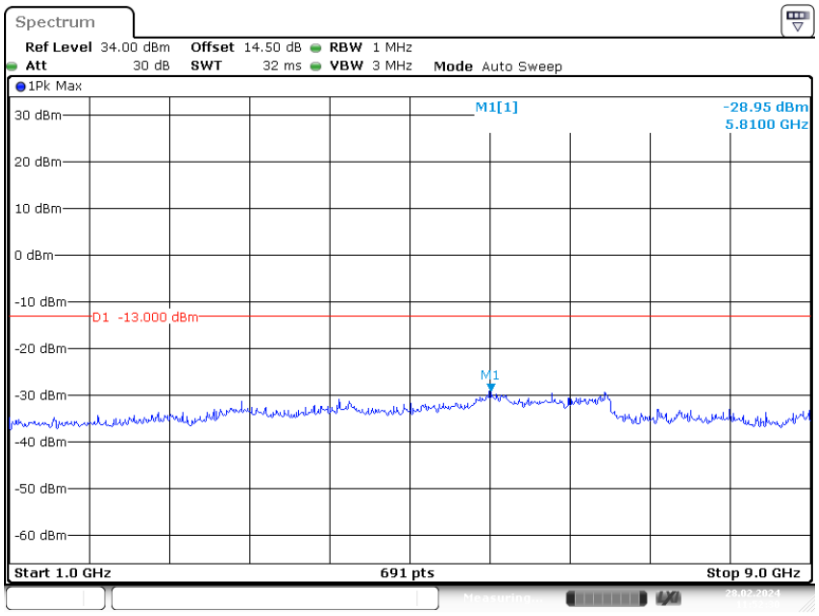
30 MHz – 1GHz WCDMA (Rel 99) Mode, High channel



Fundamental

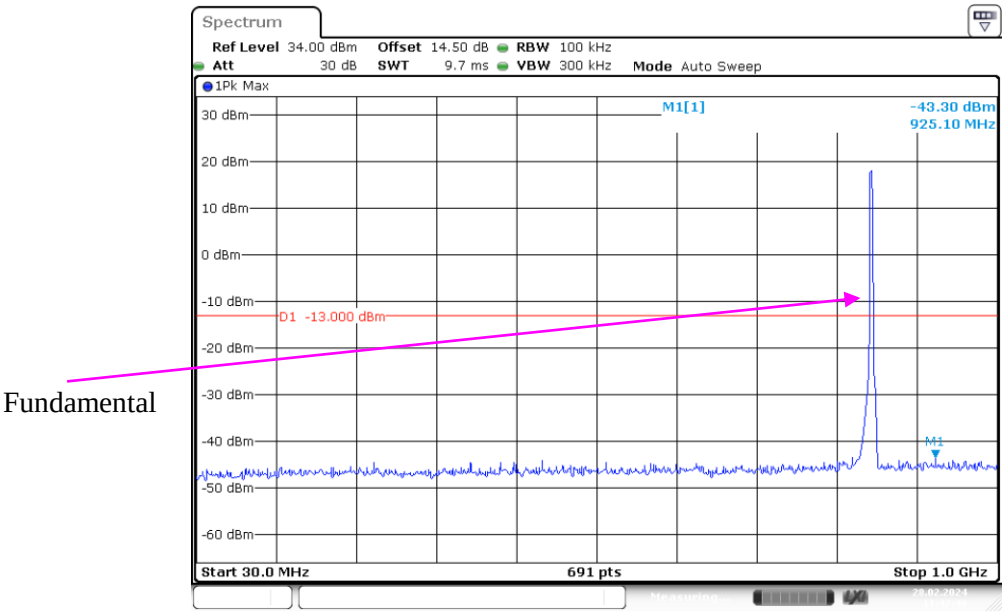
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:48:45

1 GHz – 9 GHz WCDMA (Rel 99) Mode, High channel



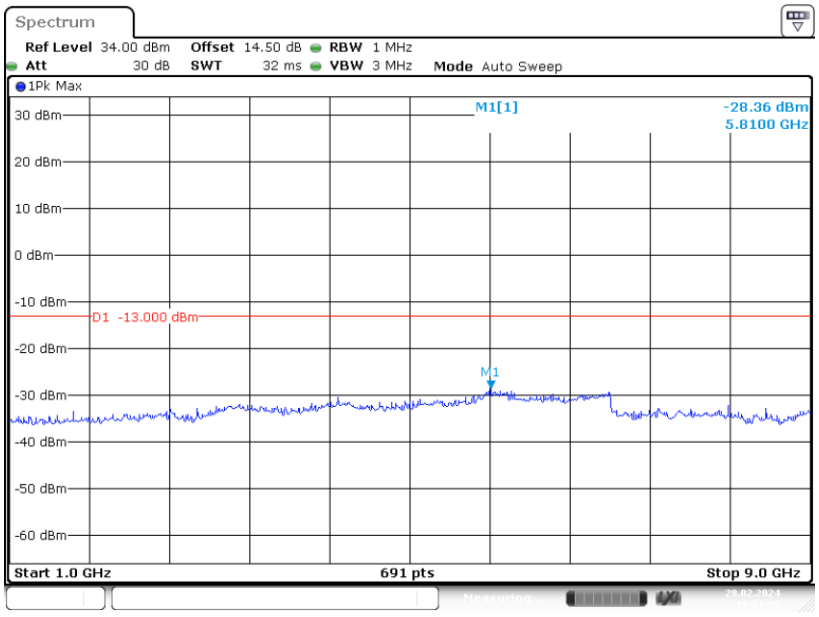
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:52:31

30 MHz – 1GHz WCDMA (HSDPA) Mode, High channel



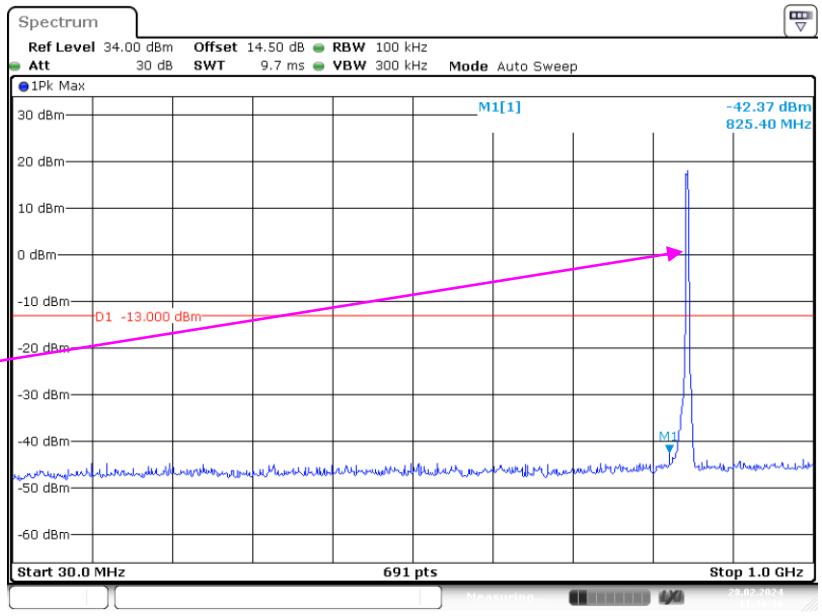
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:47:50

1 GHz – 10 GHz WCDMA (HSDPA) Mode, High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:51:36

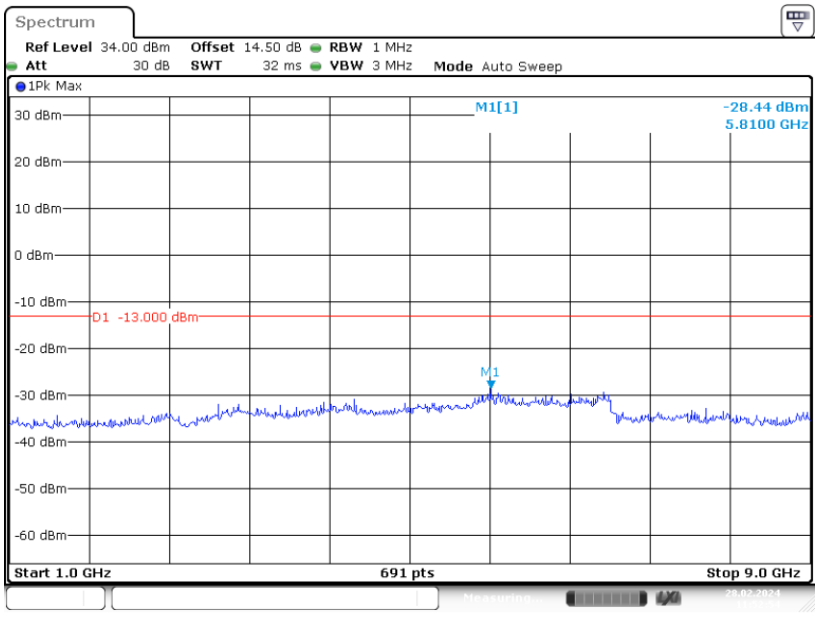
30 MHz – 1GHz WCDMA (HSUPA) Mode, High channel



Fundamental

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:49:11

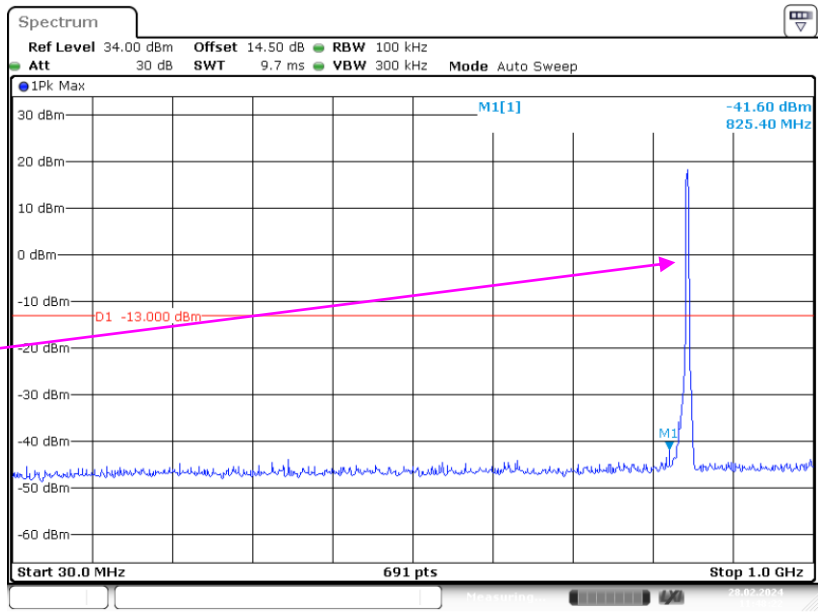
1 GHz – 9 GHz WCDMA (HSUPA) Mode, High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:52:54

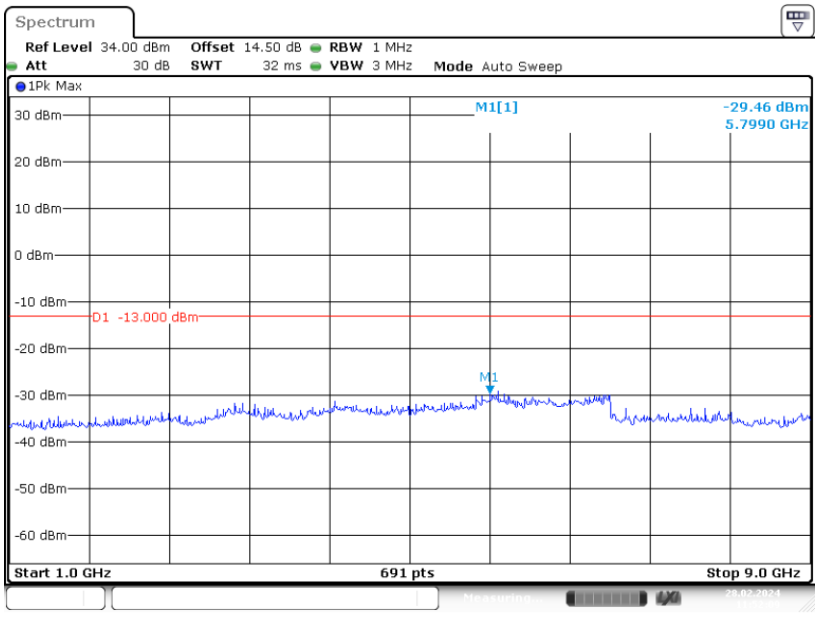
30 MHz – 1GHz WCDMA (HSPA+) Mode, High channel

Fundamental



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:48:22

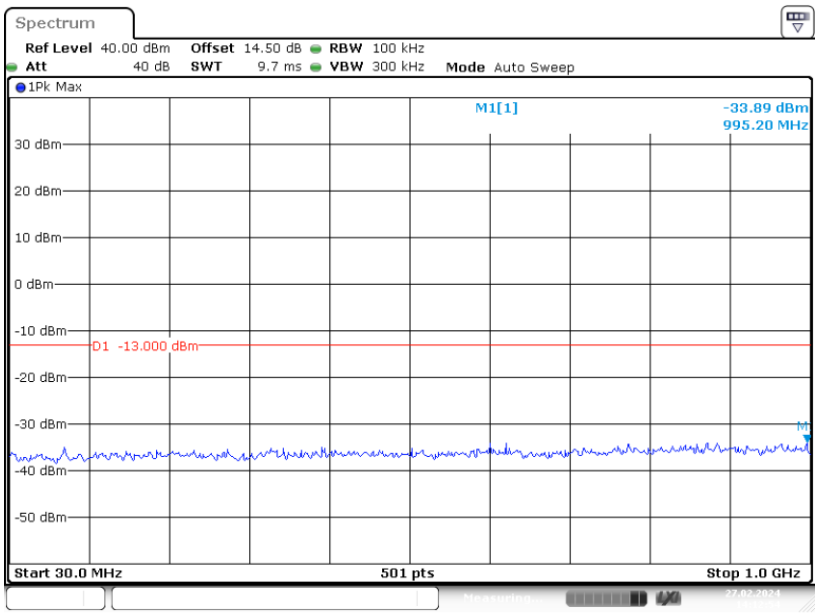
1 GHz – 9 GHz WCDMA (HSPA+) Mode, High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:52:09

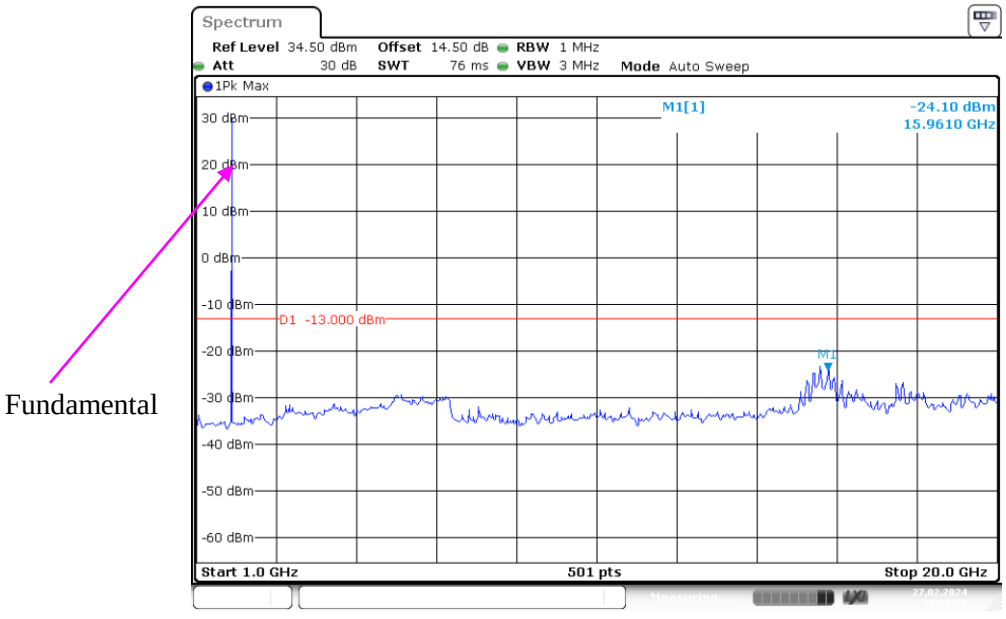
PCS 1900 Band:

30 MHz – 1GHz (GPRS Mode), Low channel



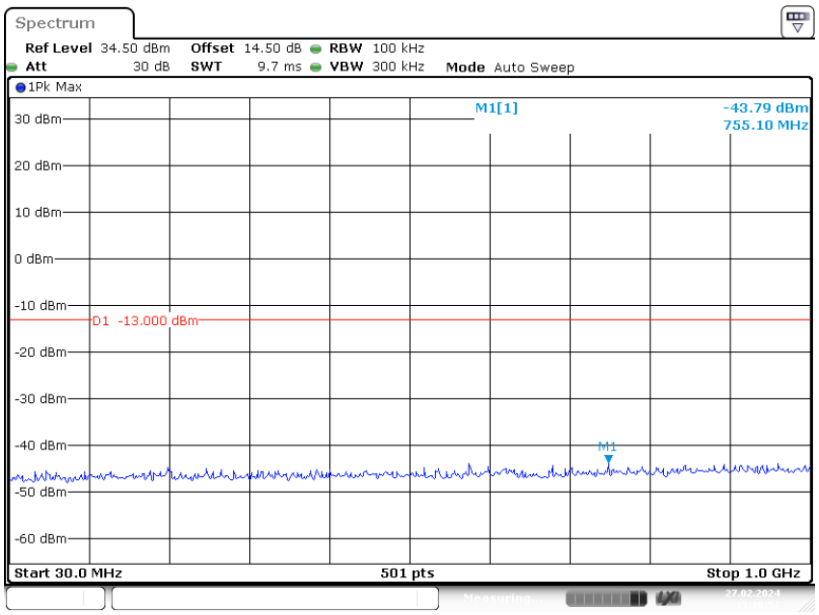
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:12:54

1 GHz – 20 GHz (GPRS Mode), Low channel



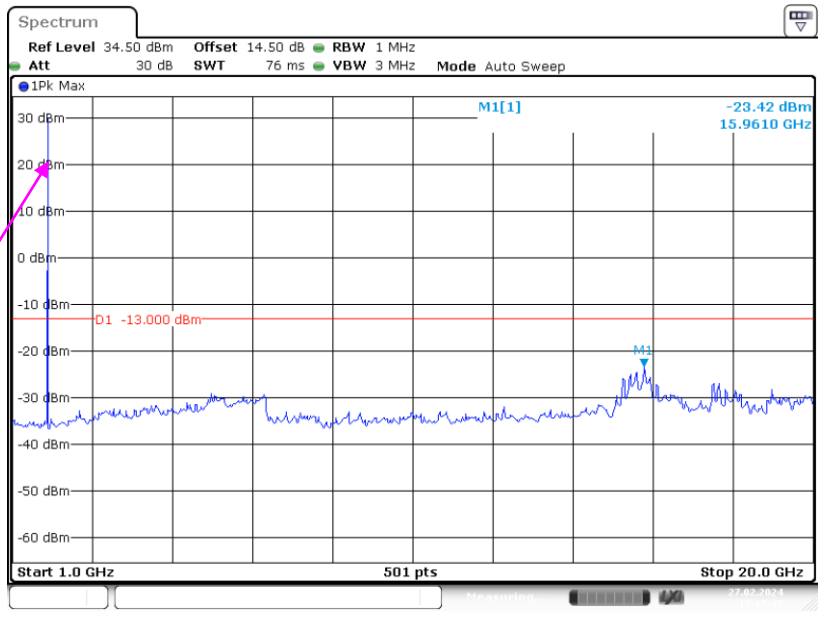
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:22:36

30 MHz – 1GHz (EGPRS Mode), Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:10:58

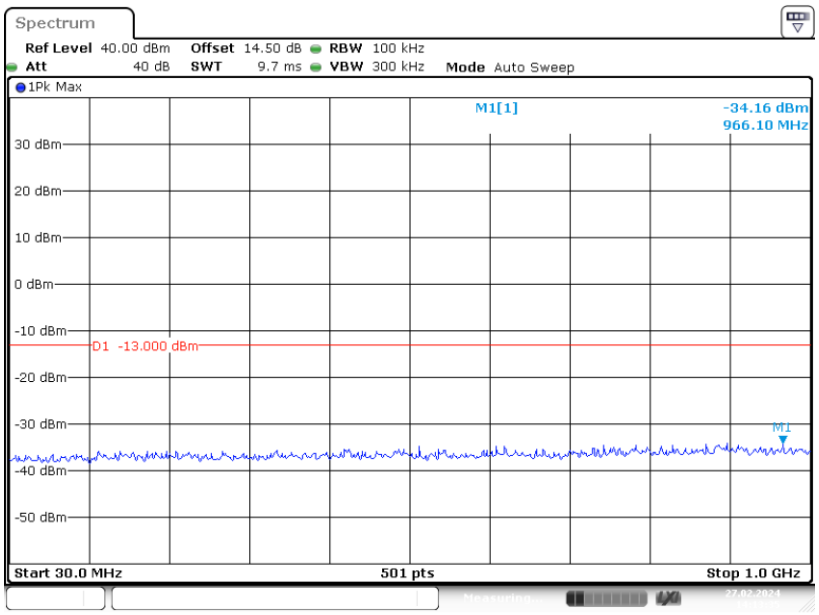
1 GHz – 20 GHz (EGPRS Mode), Low channel



Fundamental

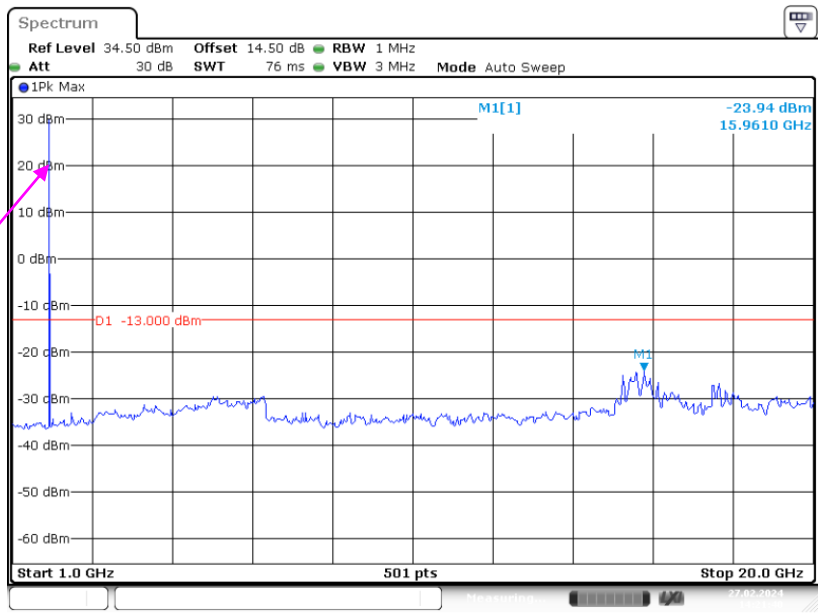
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:17:38

30 MHz – 1GHz (GPRS Mode), Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:13:36

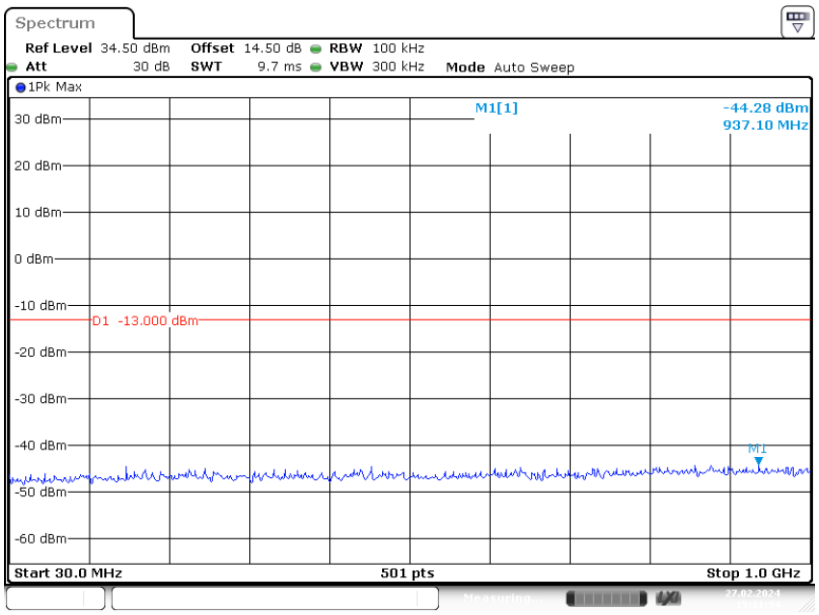
1 GHz – 20 GHz (GPRS Mode), Middle channel



Fundamental

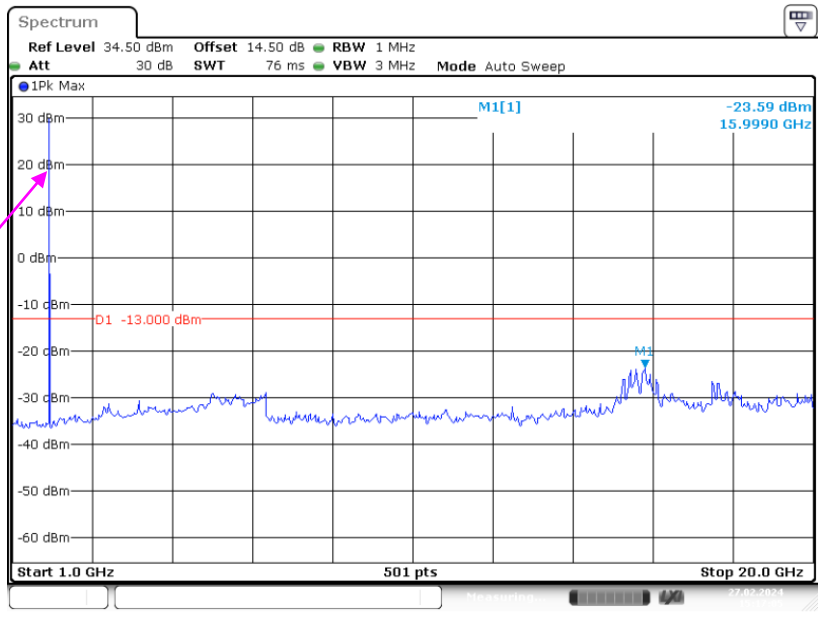
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:21:40

30 MHz – 1GHz (EGPRS Mode), Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:11:34

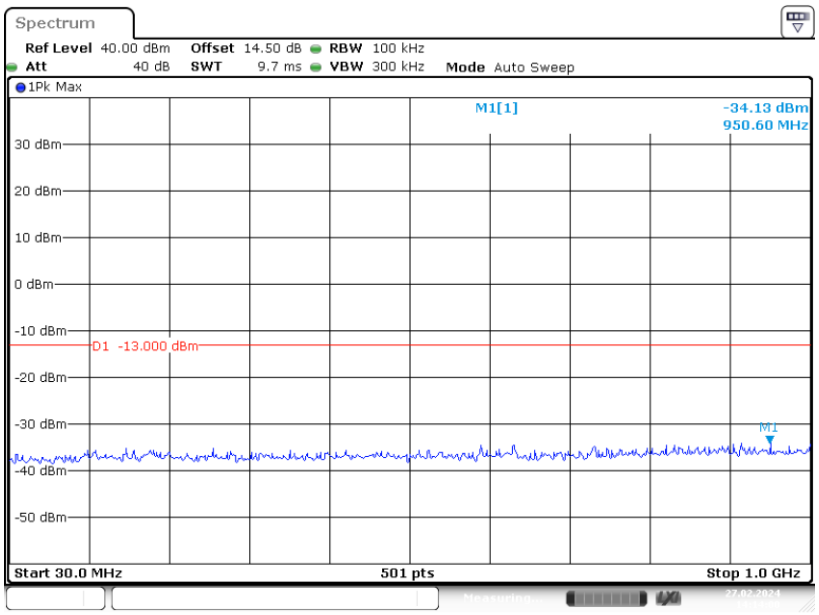
1 GHz – 20 GHz (EGPRS Mode), Middle channel



Fundamental

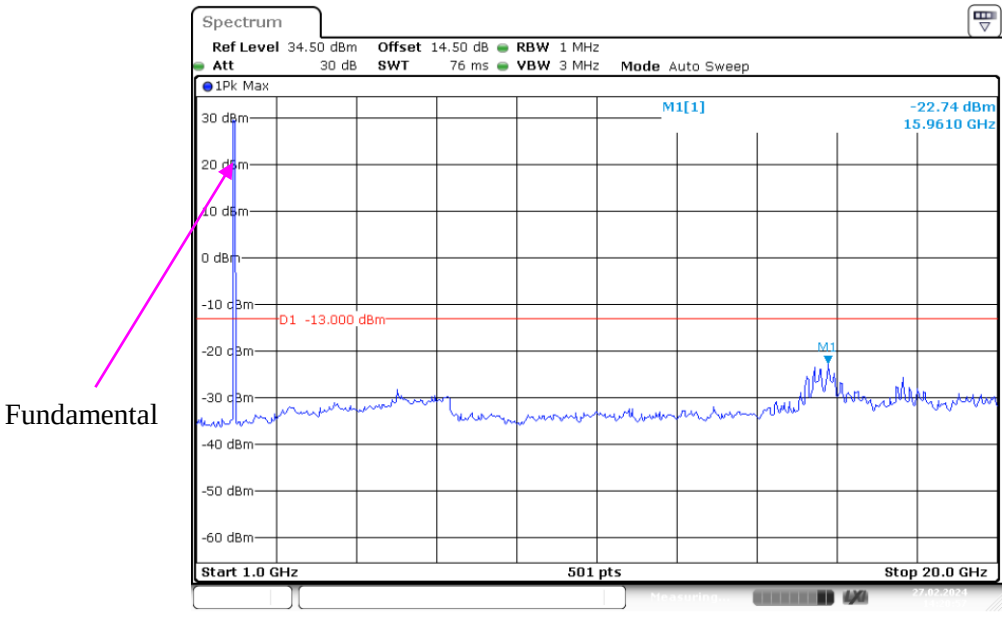
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:17:05

30 MHz – 1GHz (GPRS Mode), High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:14:00

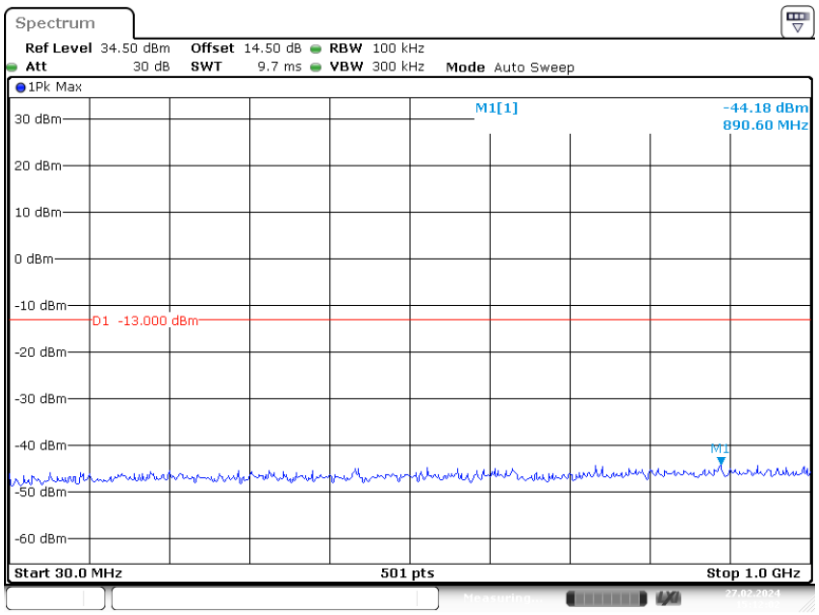
1 GHz – 20 GHz (GPRS Mode), High channel



Fundamental

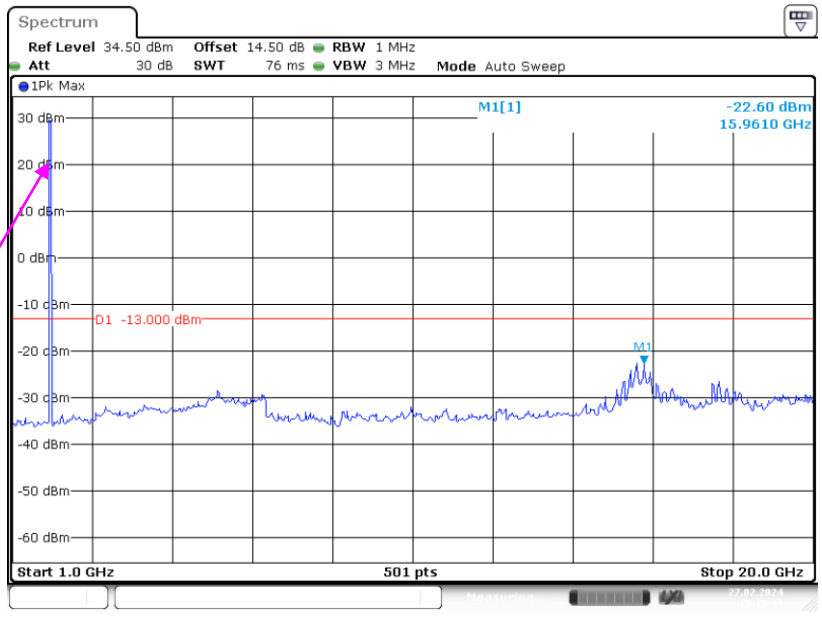
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:20:57

30 MHz – 1GHz(EGPRS Mode), High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:12:03

1 GHz – 20 GHz (EGPRS Mode), High channel

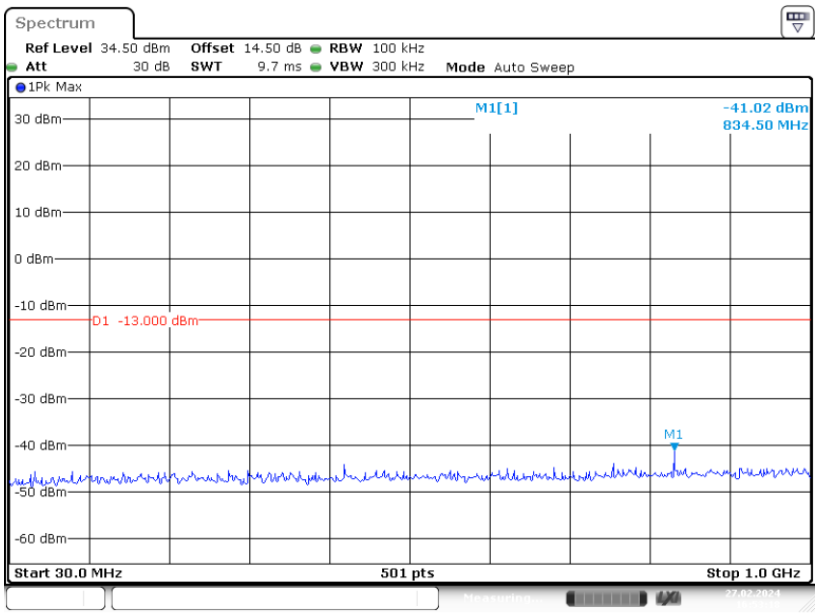


Fundamental

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:15:49

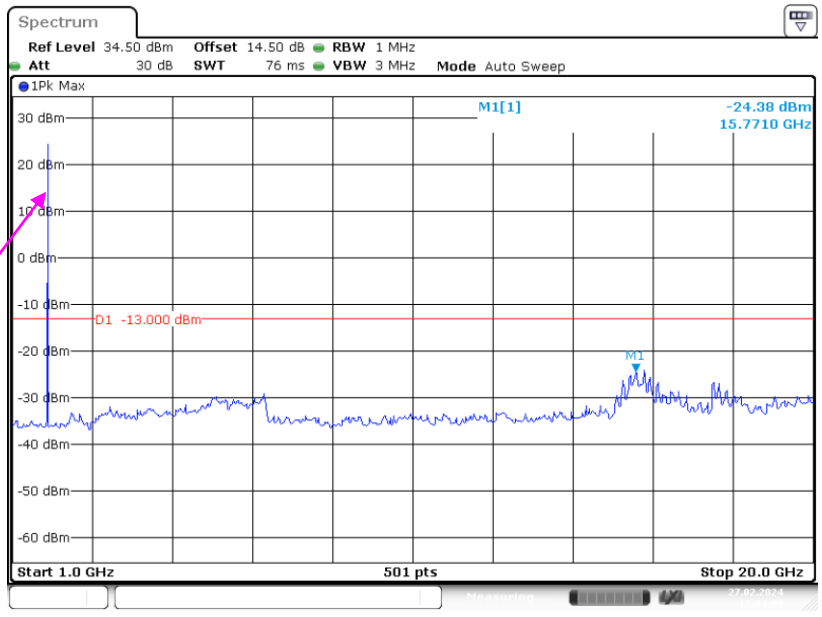
WCDMA Band II:

30 MHz – 1GHz WCDMA (Rel 99) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:53:19

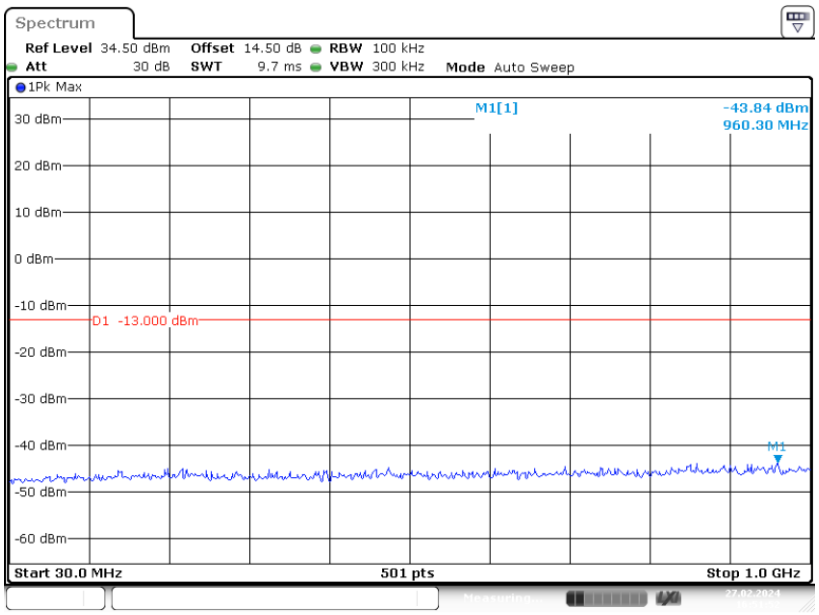
1 GHz – 20 GHz WCDMA (Rel 99) Mode, Low channel



Fundamental

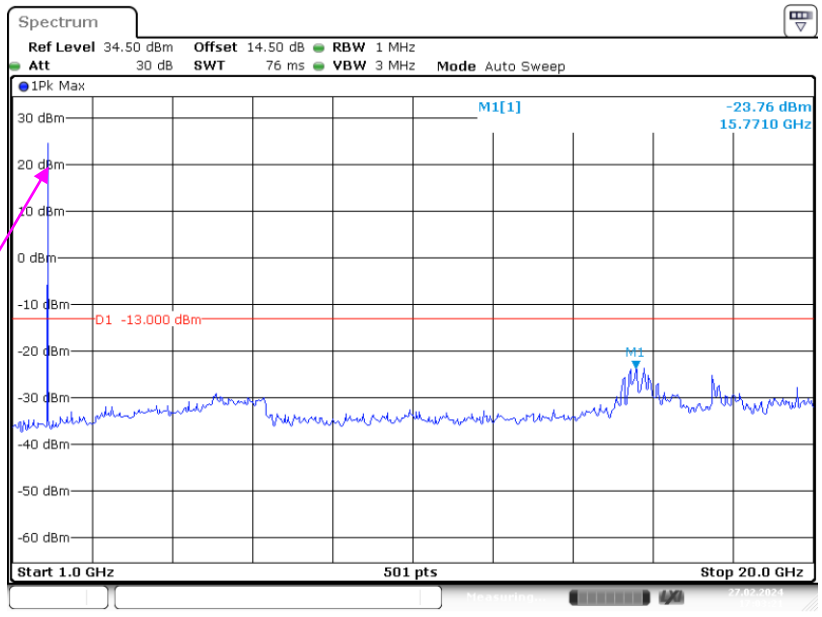
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:04:09

30 MHz – 1GHz WCDMA (HSDPA) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:51:52

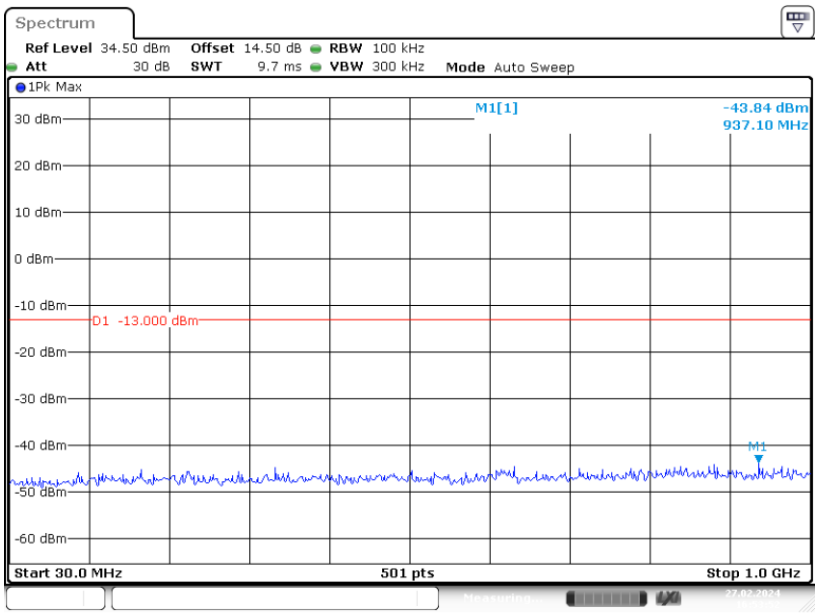
1 GHz – 20 GHz WCDMA (HSDPA) Mode, Low channel



Fundamental

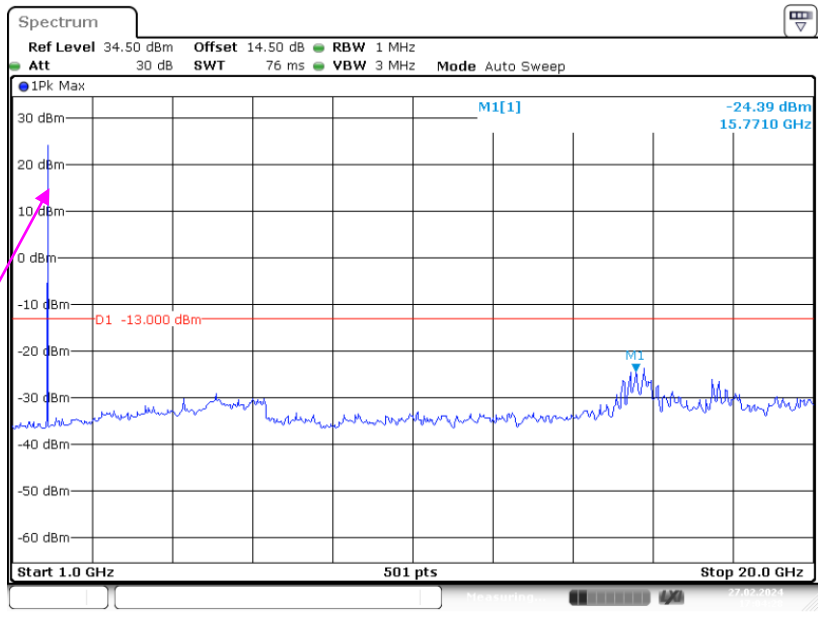
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:03:21

30 MHz – 1GHz WCDMA (HSUPA) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:53:52

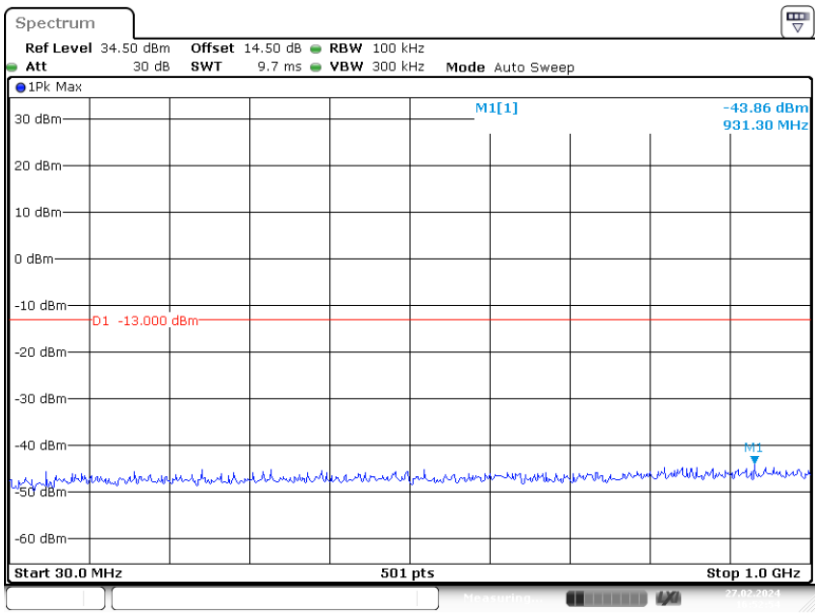
1 GHz – 20 GHz WCDMA (HSUPA) Mode, Low channel



Fundamental

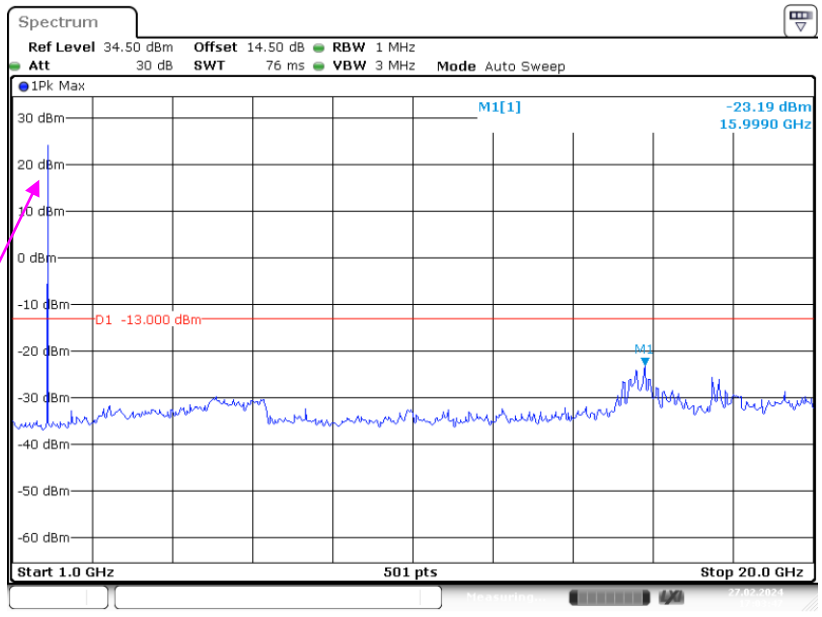
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:04:29

30 MHz – 1GHz WCDMA (HSPA+) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:52:54

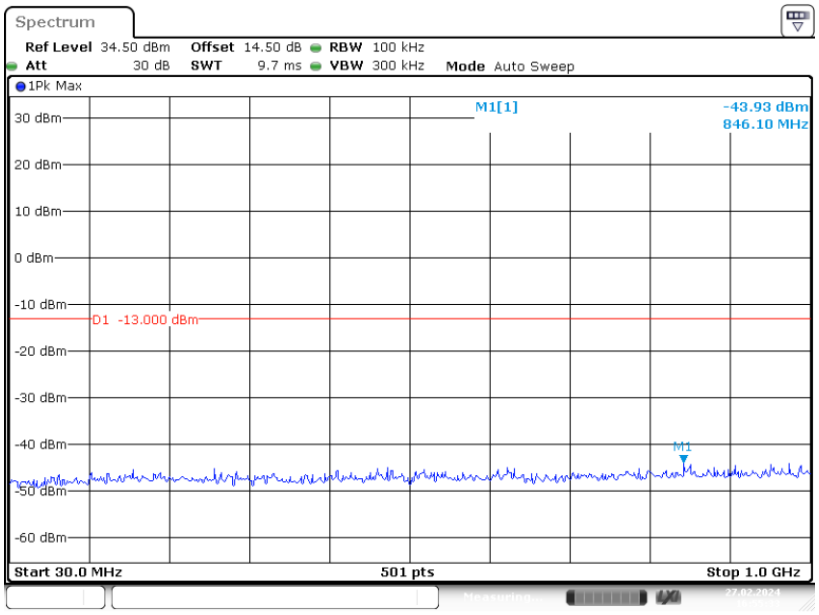
1 GHz – 20 GHz WCDMA (HSPA+) Mode, Low channel



Fundamental

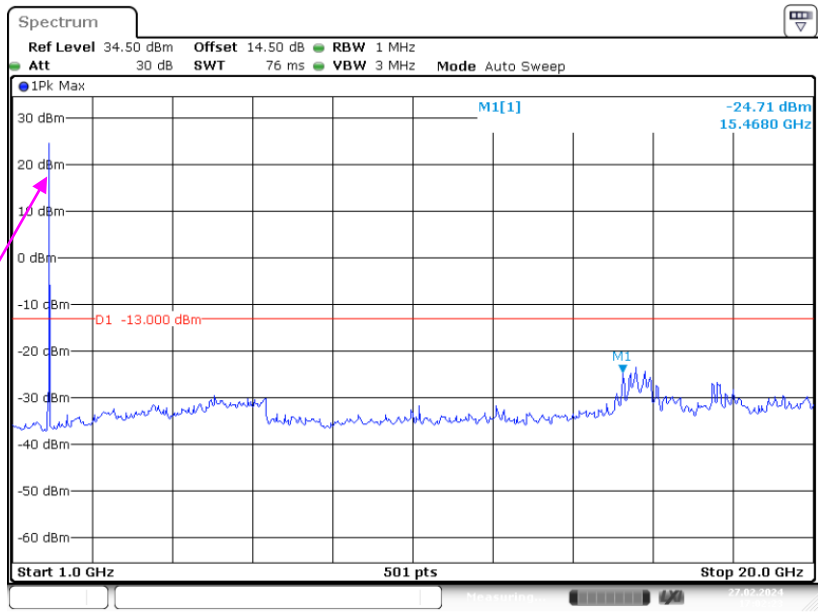
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:03:47

30 MHz – 1GHz WCDMA (Rel 99) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:55:34

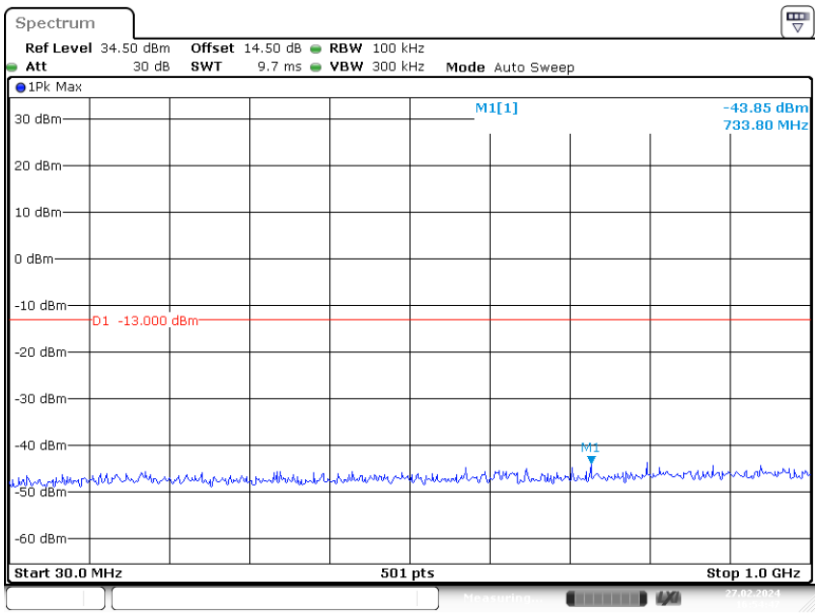
1 GHz – 20 GHz WCDMA (Rel 99) Mode, Middle channel



Fundamental

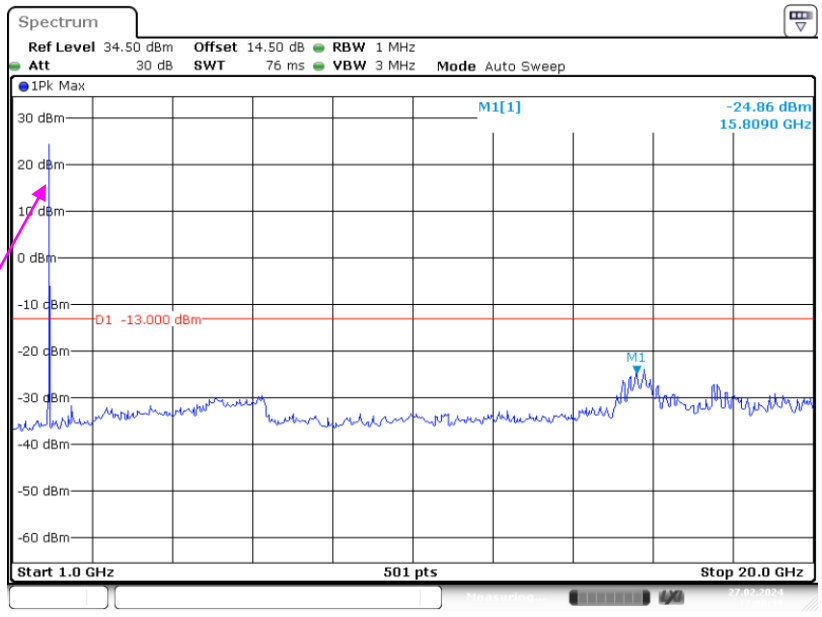
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:02:23

30 MHz – 1GHz WCDMA (HSDPA) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:54:48

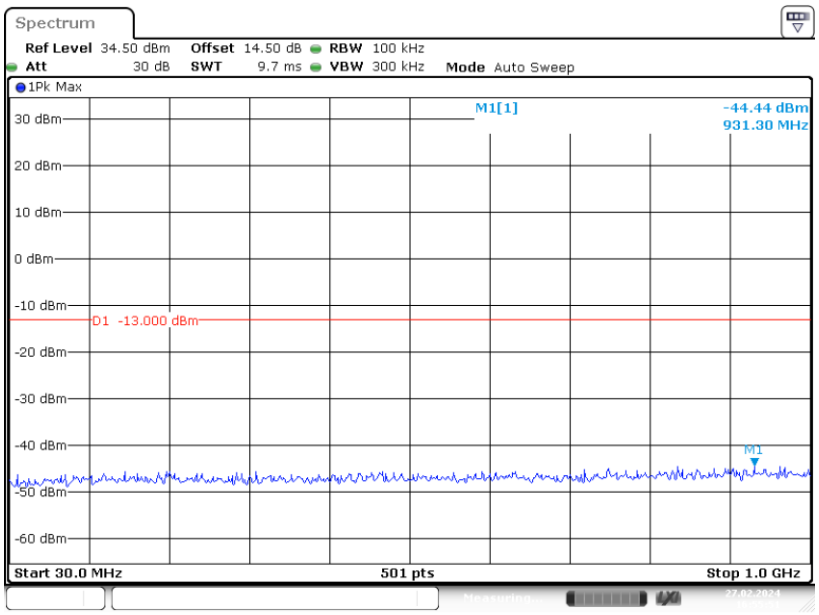
1 GHz – 20 GHz WCDMA (HSDPA) Mode, Middle channel



Fundamental

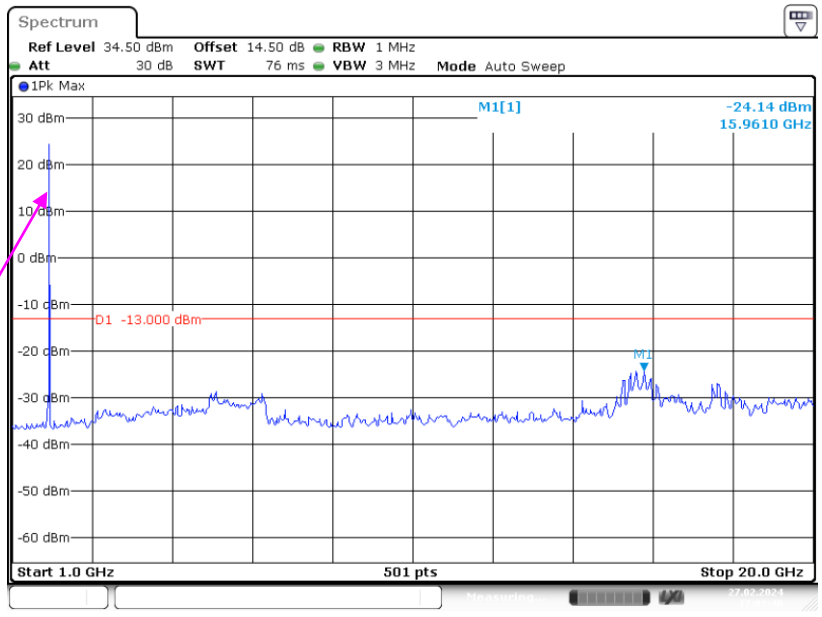
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:00:39

30 MHz – 1GHz WCDMA (HSUPA) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:55:51

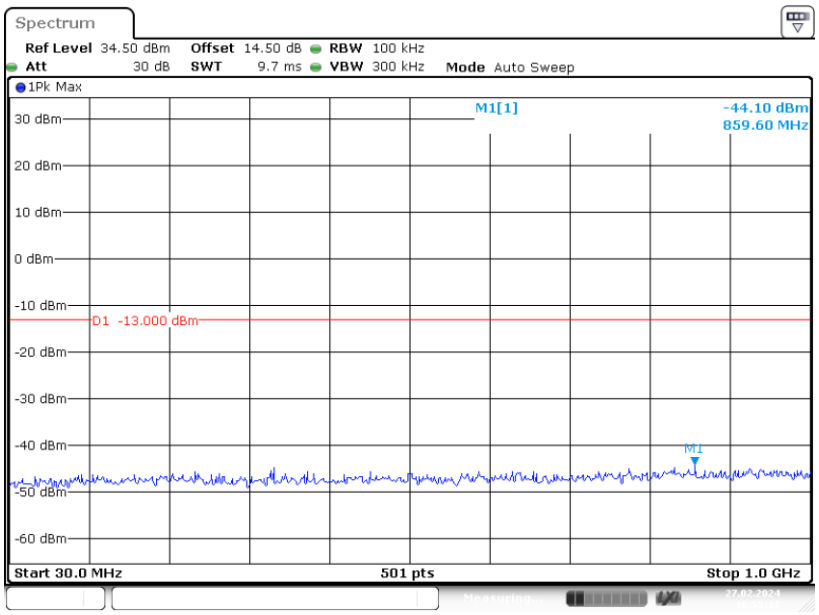
1 GHz – 20 GHz WCDMA (HSUPA) Mode, Middle channel



Fundamental

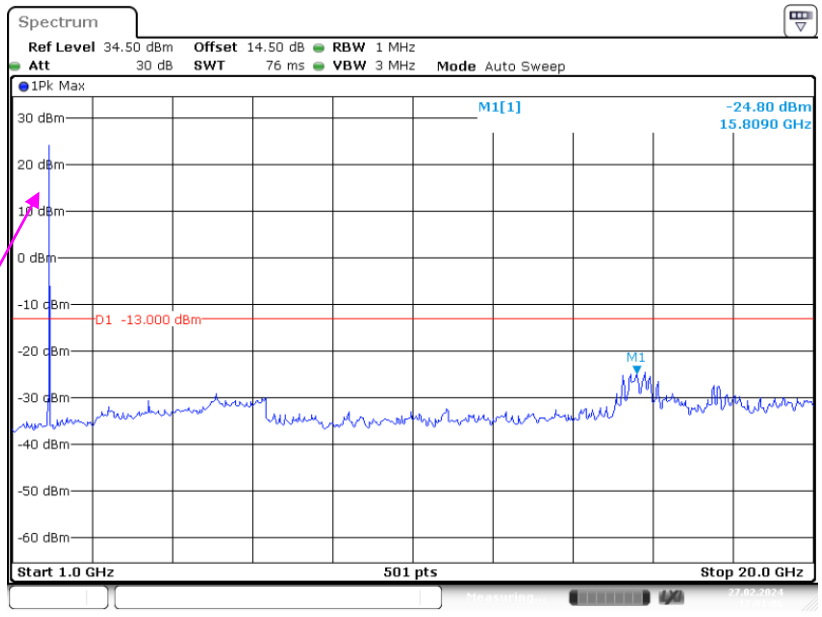
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:02:40

30 MHz – 1GHz WCDMA (HSPA+) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:55:18

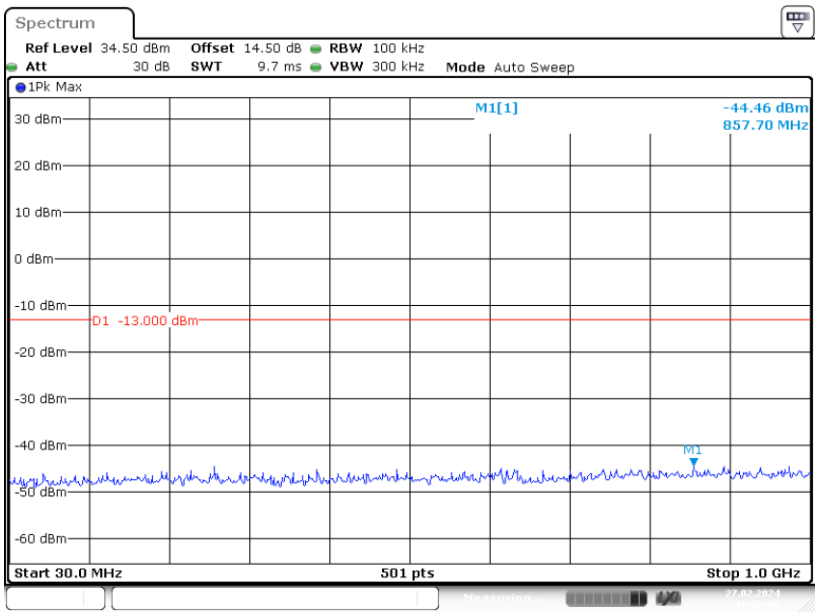
1 GHz – 20 GHz WCDMA (HSPA+) Mode, Middle channel



Fundamental

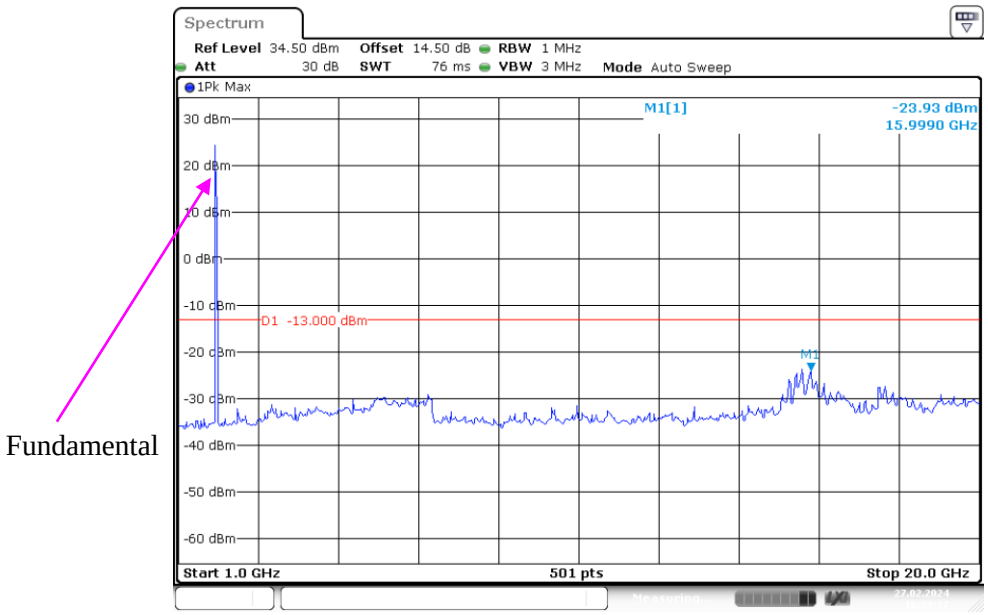
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:01:06

30 MHz – 1GHz WCDMA (Rel 99) Mode, High channel



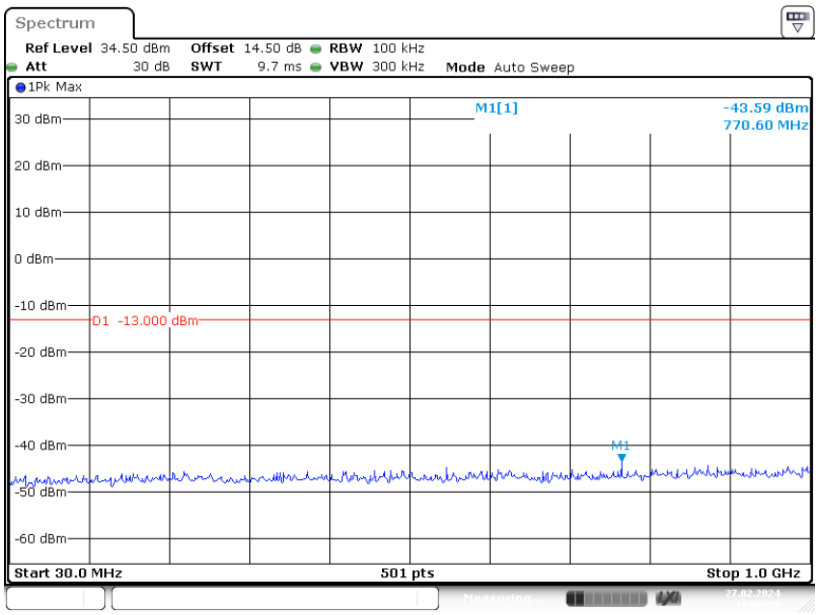
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:57:04

1 GHz – 20 GHz WCDMA (Rel 99) Mode, High channel



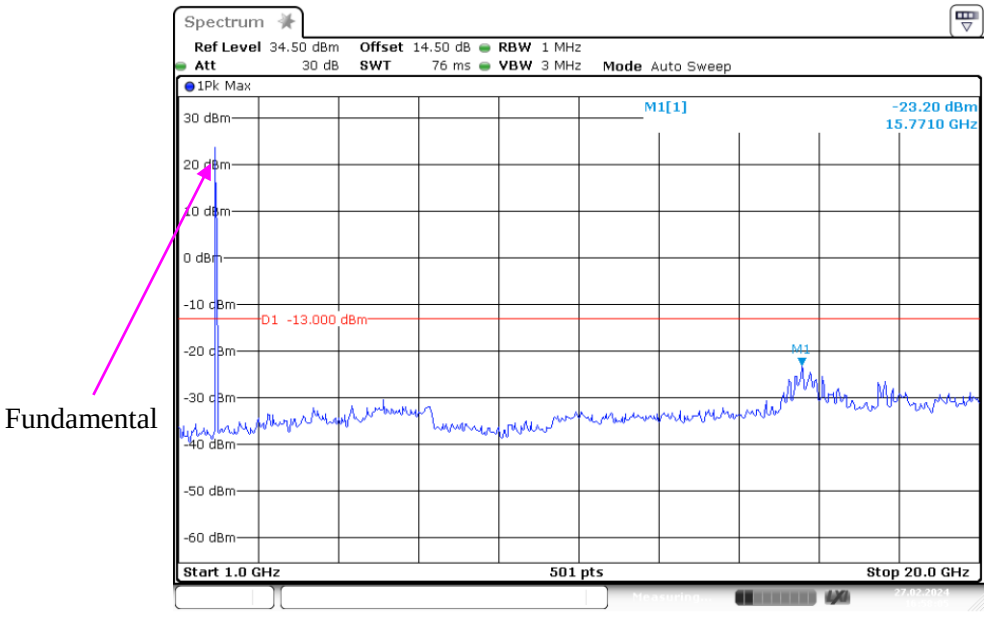
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:59:17

30 MHz – 1GHz WCDMA (HSDPA) Mode, High channel



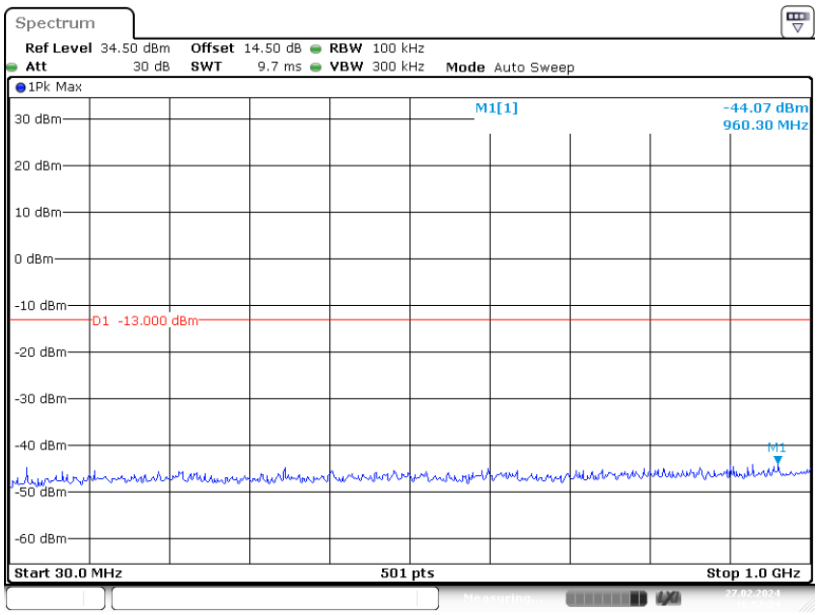
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:56:25

1 GHz – 20 GHz WCDMA (HSDPA) Mode, High channel



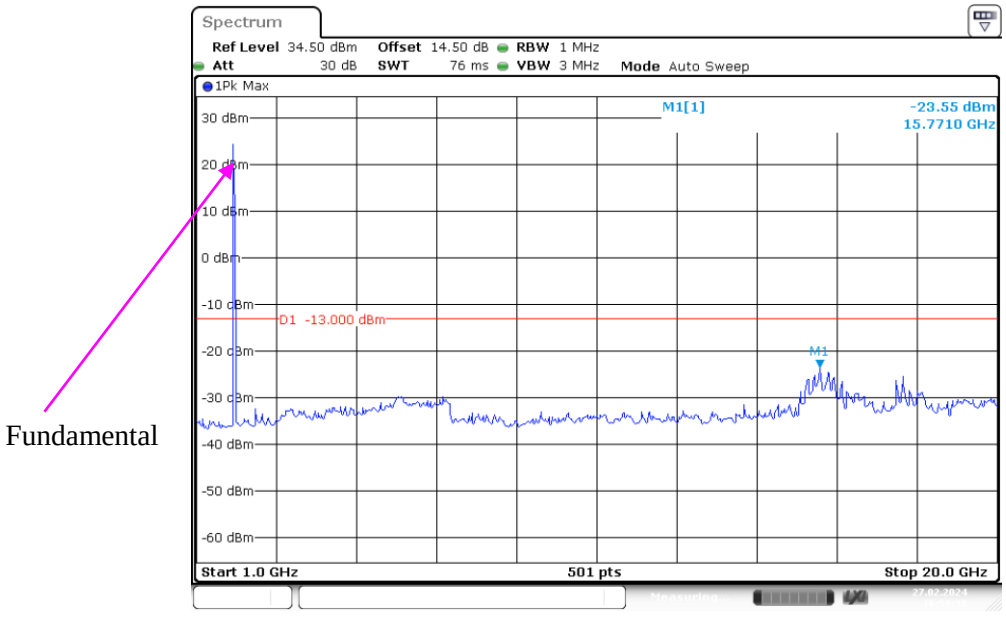
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:58:05

30 MHz – 1GHz WCDMA (HSUPA) Mode, High channel



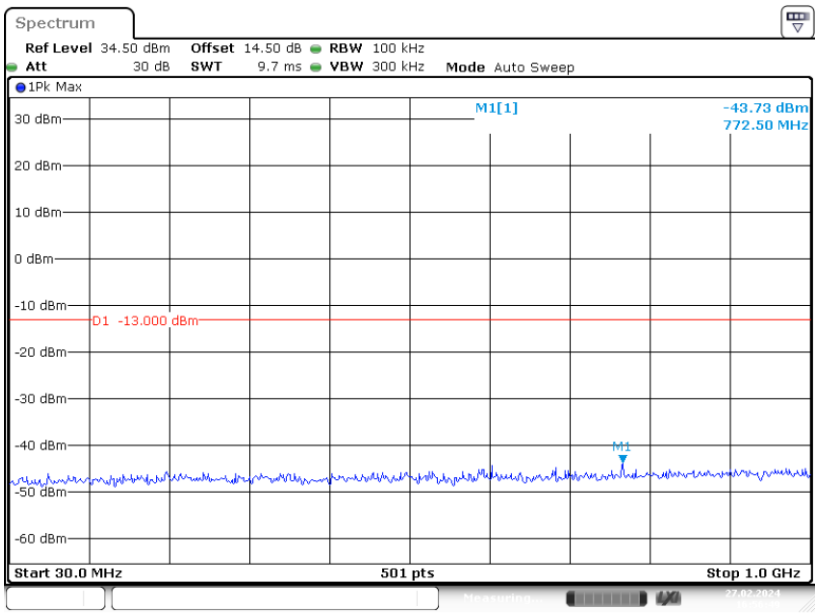
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:57:24

1 GHz – 20 GHz WCDMA (HSUPA) Mode, High channel



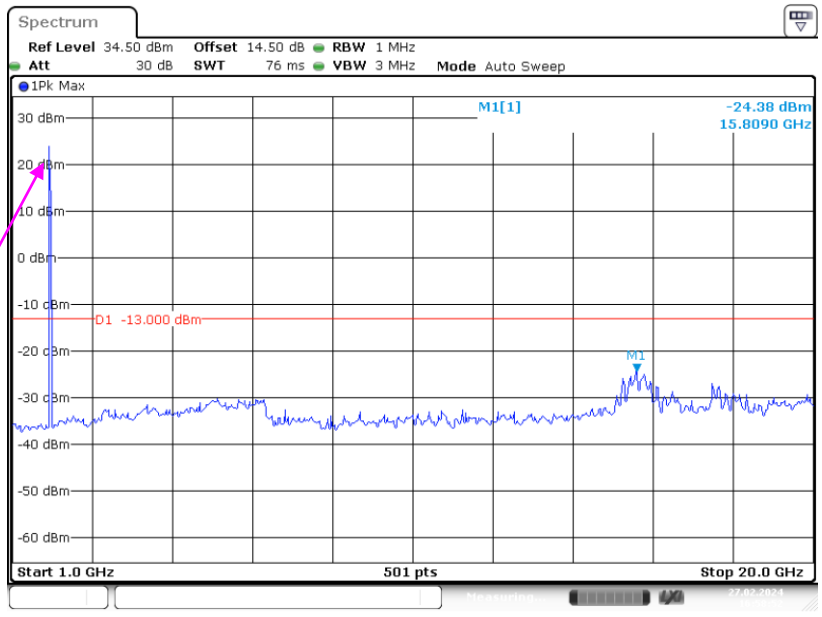
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:59:39

30 MHz – 1GHz WCDMA (HSPA+) Mode, High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:56:49

1 GHz – 20 GHz WCDMA (HSPA+) Mode, High channel

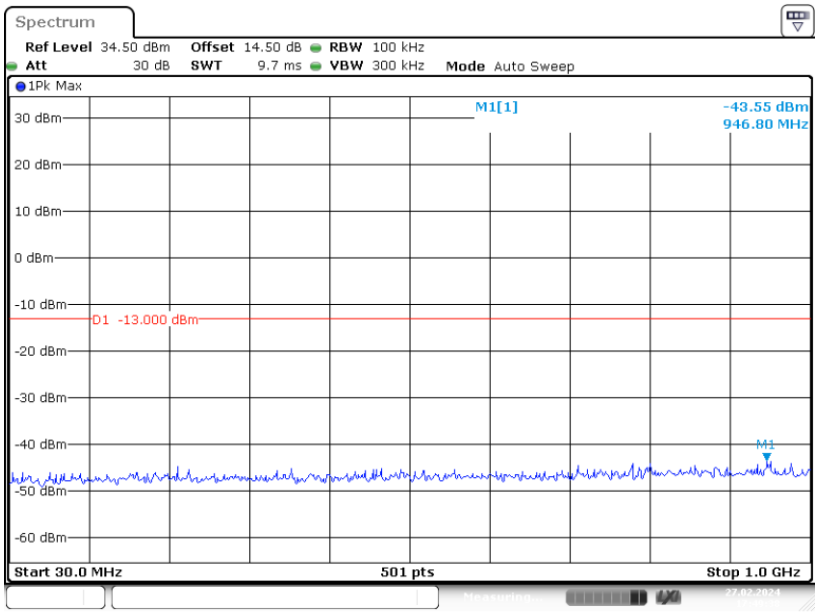


Fundamental

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:58:53

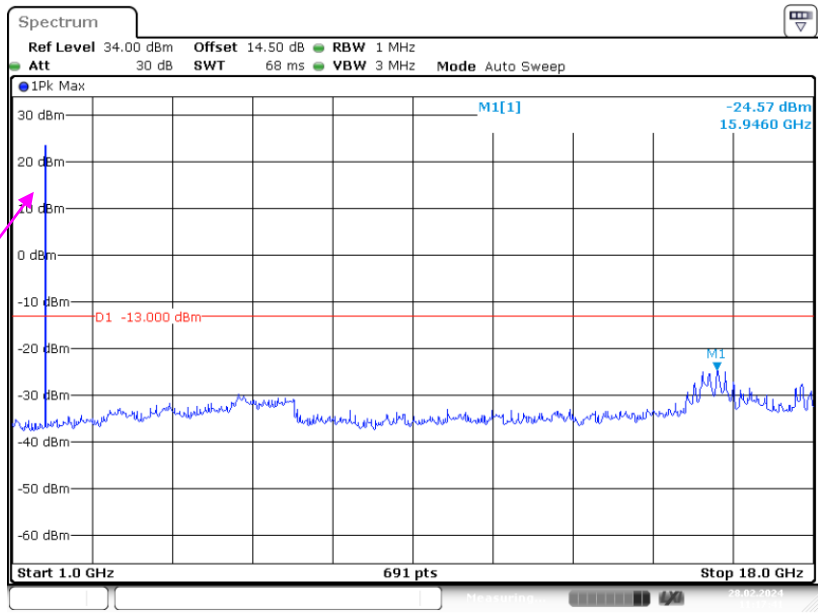
WCDMA Band IV:

30 MHz – 1GHz WCDMA (Rel 99) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:49:39

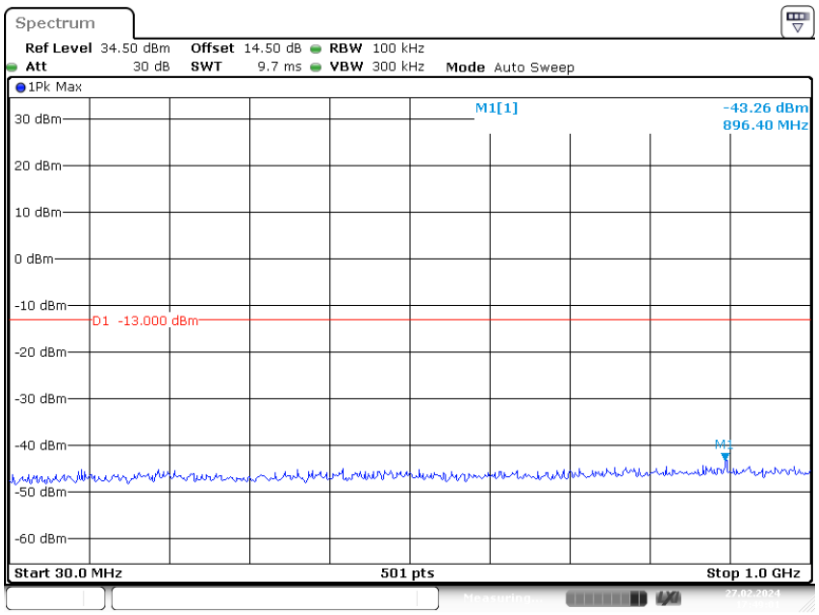
1 GHz – 20 GHz WCDMA (Rel 99) Mode, Low channel



Fundamental

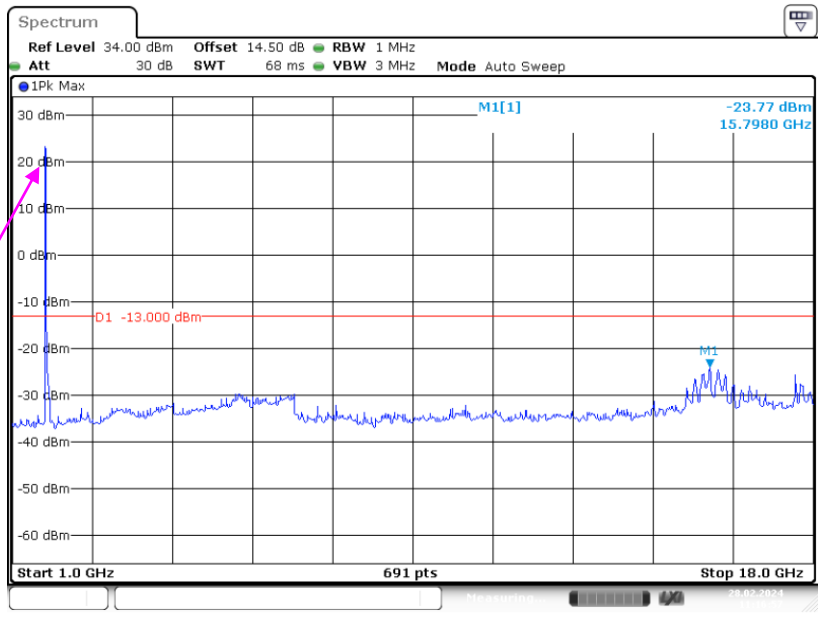
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:17:42

30 MHz – 1GHz WCDMA (HSDPA) Mode, Low channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:49:01

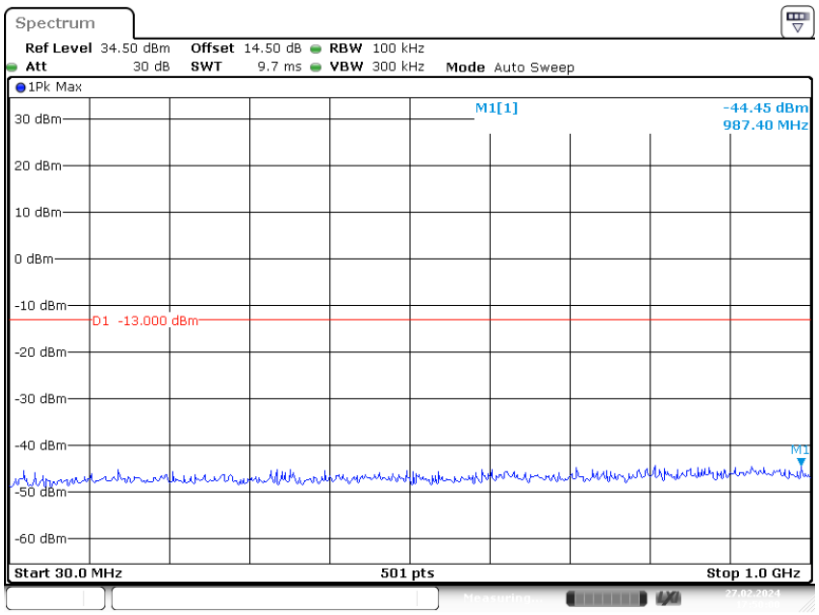
1 GHz – 18 GHz WCDMA (HSDPA) Mode, Low channel



Fundamental

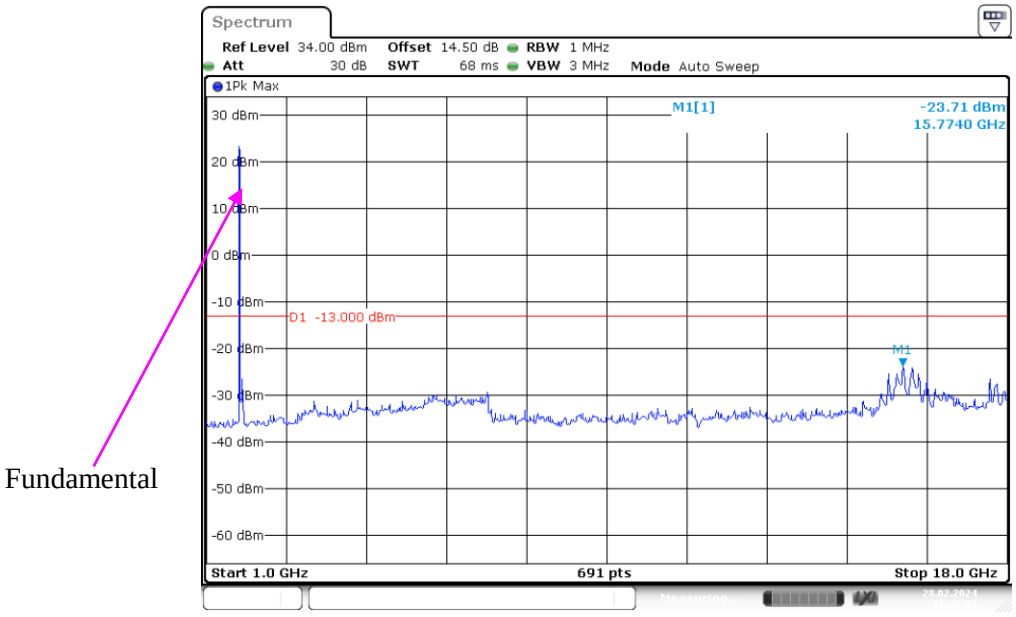
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:16:57

30 MHz – 1GHz WCDMA (HSUPA) Mode, Low channel



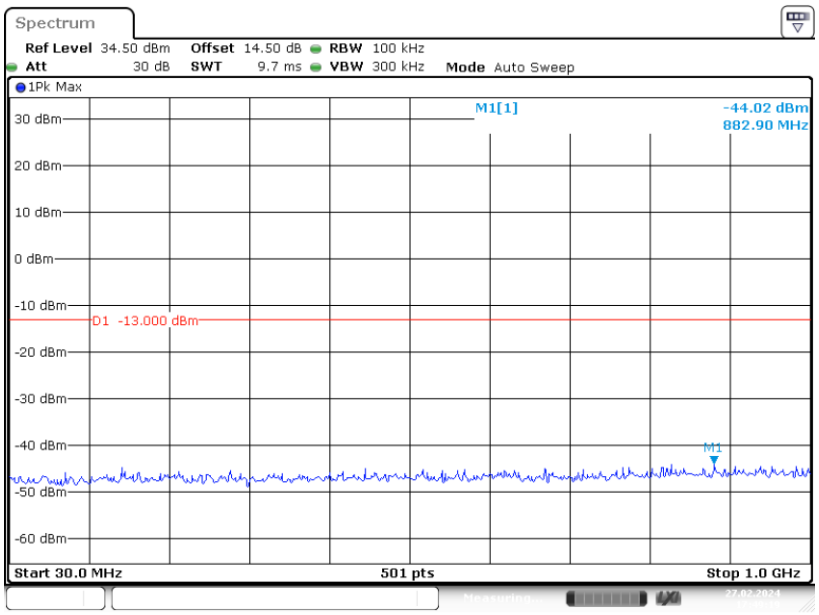
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:50:00

1 GHz – 18 GHz WCDMA (HSUPA) Mode, Low channel



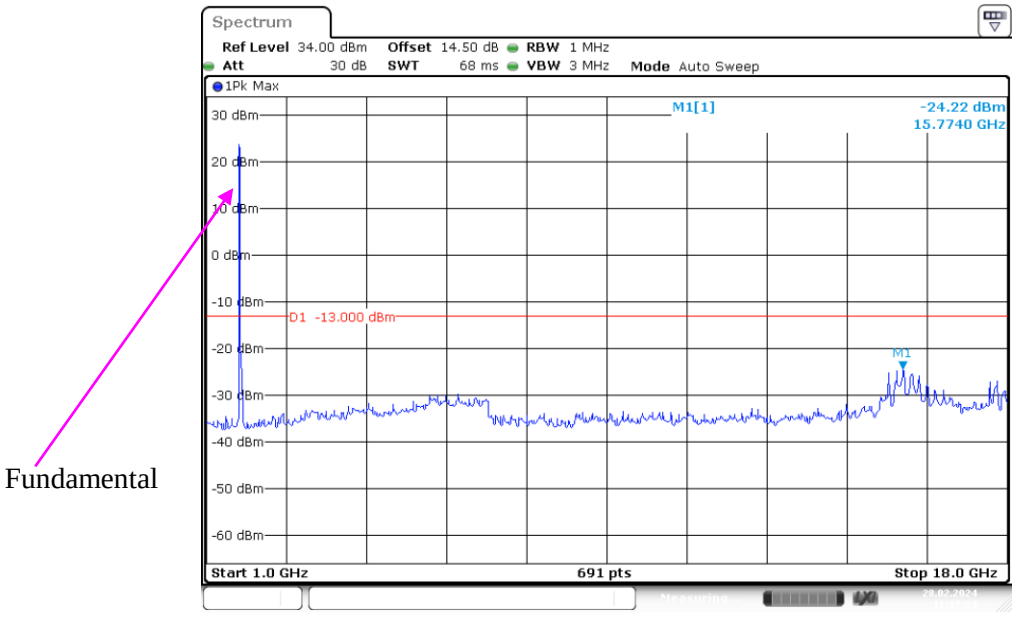
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:18:02

30 MHz – 1GHz WCDMA (HSPA+) Mode, Low channel



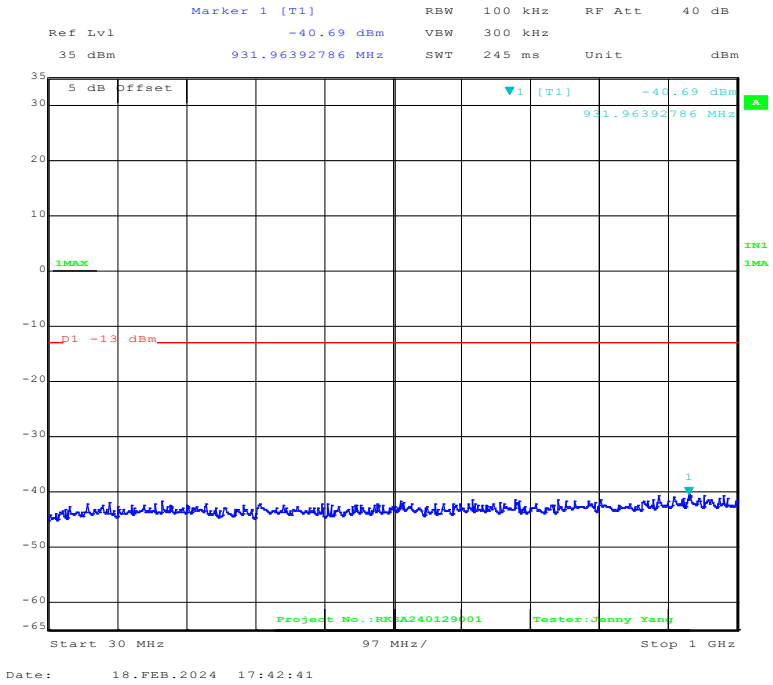
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:49:19

1 GHz – 20 GHz WCDMA (HSPA+) Mode, Low channel

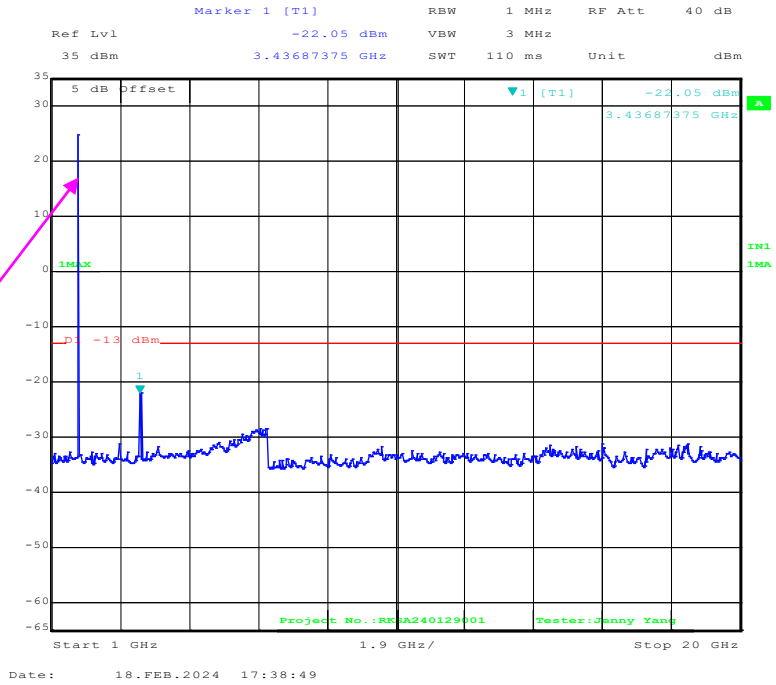


ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:17:24

30 MHz – 1GHz WCDMA (Rel 99) Mode, Middle channel

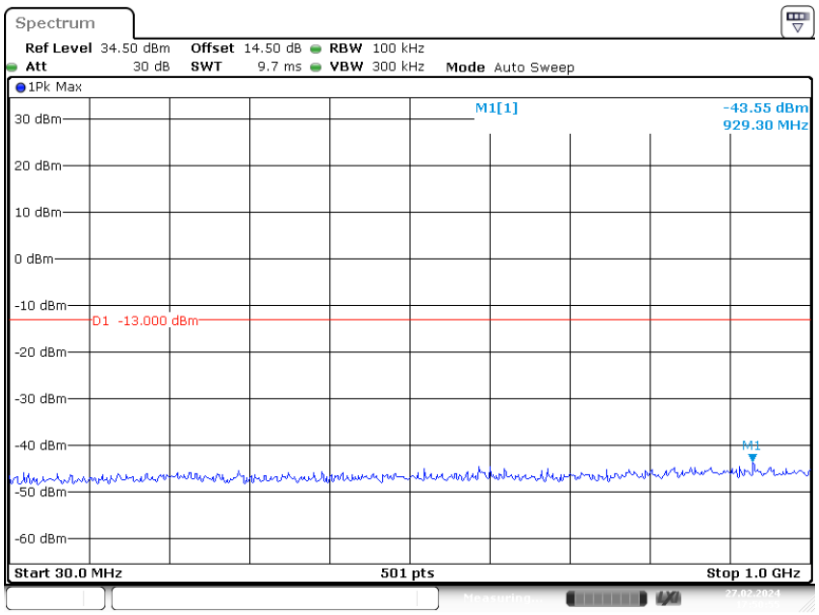


1 GHz – 20 GHz WCDMA (Rel 99) Mode, Middle channel



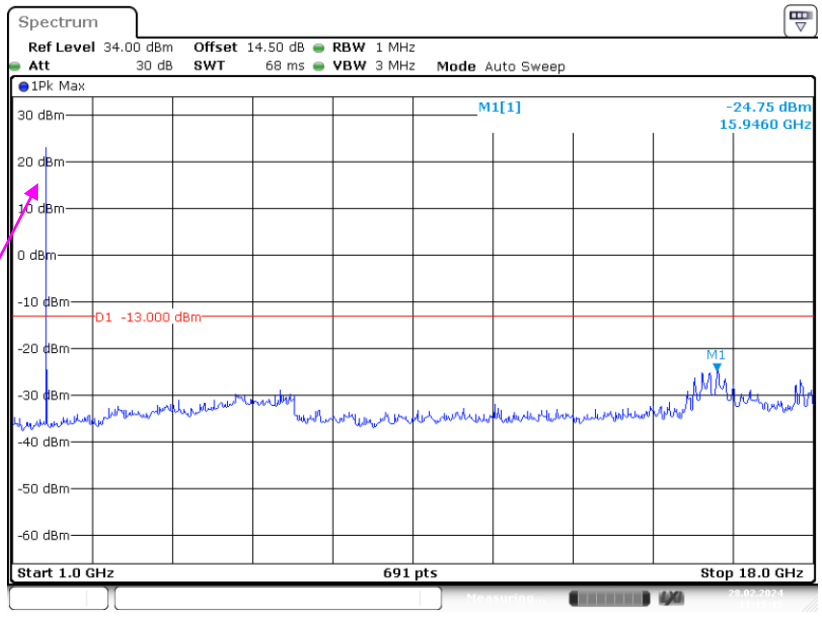
Fundamental

30 MHz – 1GHz WCDMA (HSDPA) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:50:55

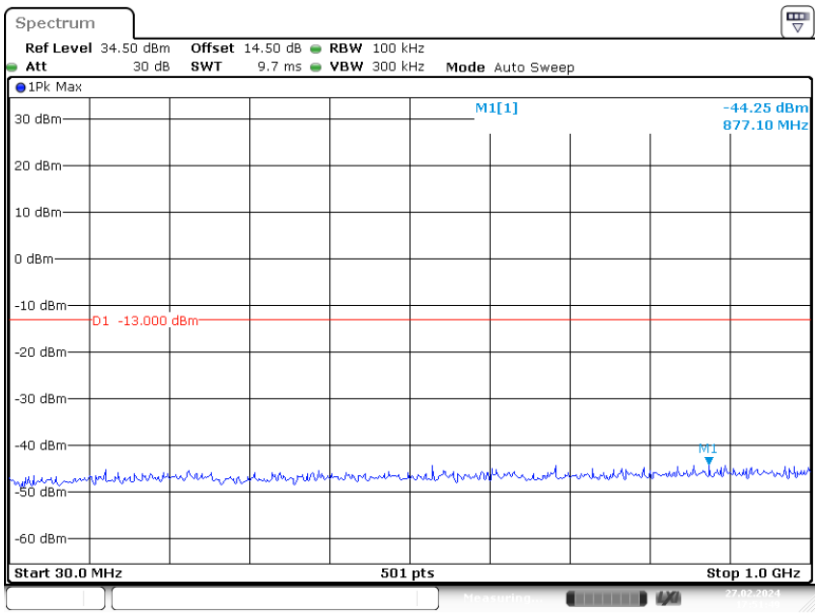
1 GHz – 18 GHz WCDMA (HSDPA) Mode, Middle channel



Fundamental

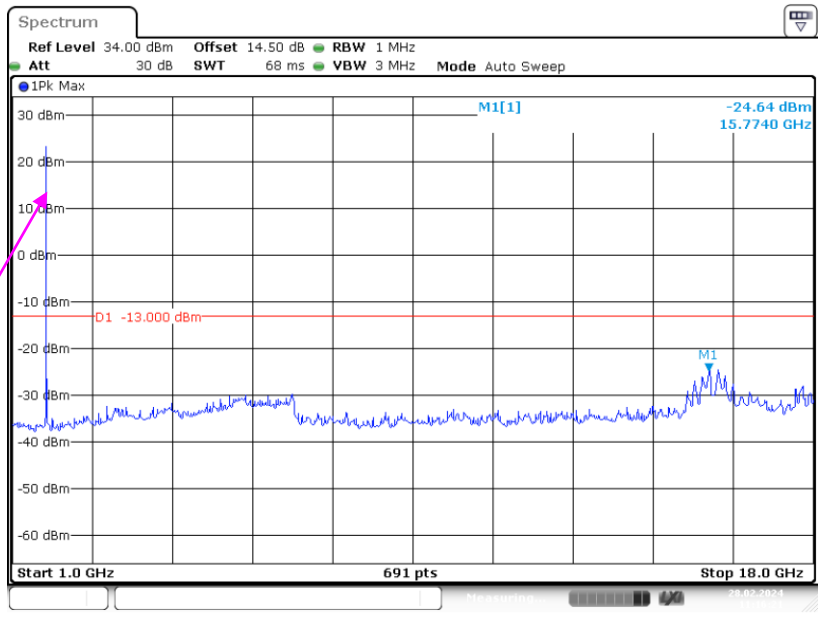
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:15:15

30 MHz – 1GHz WCDMA (HSUPA) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:51:49

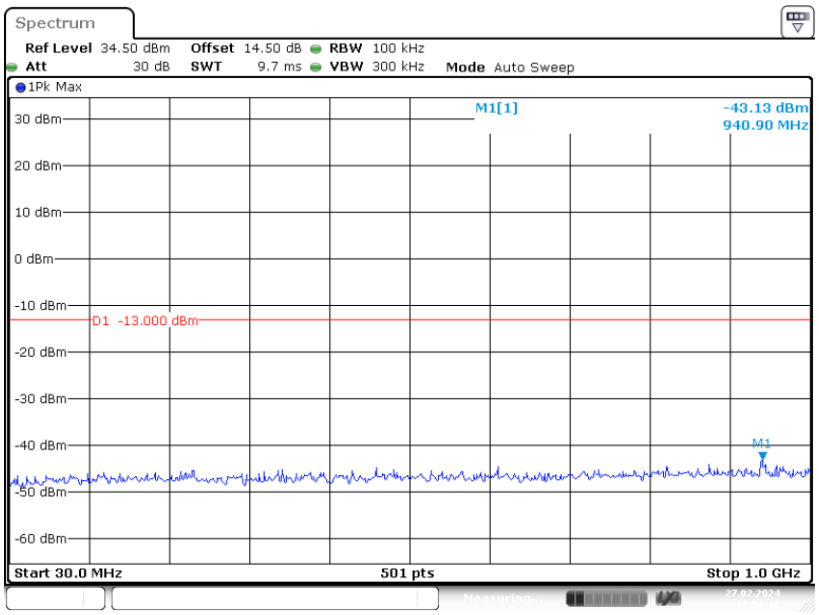
1 GHz – 18 GHz WCDMA (HSUPA) Mode, Middle channel



Fundamental

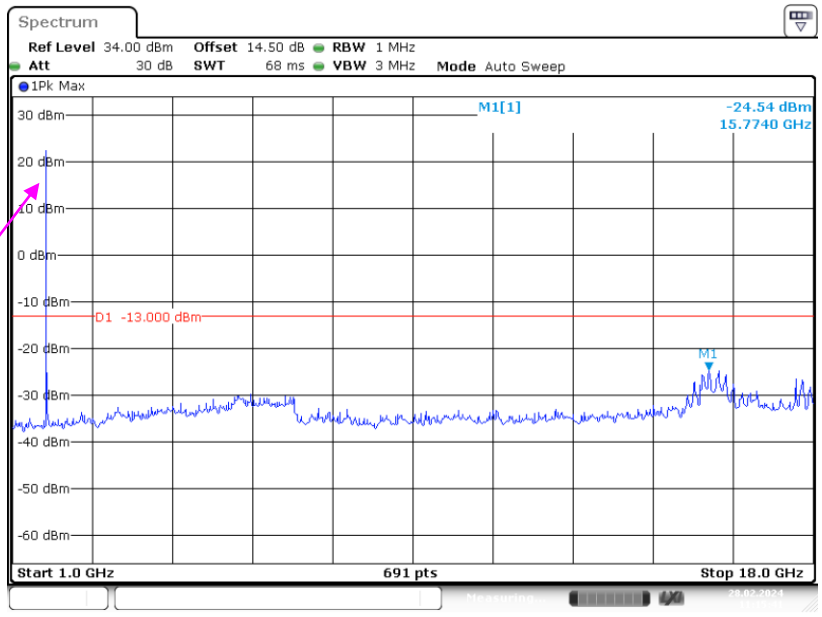
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:16:21

30 MHz – 1GHz WCDMA (HSPA+) Mode, Middle channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:51:18

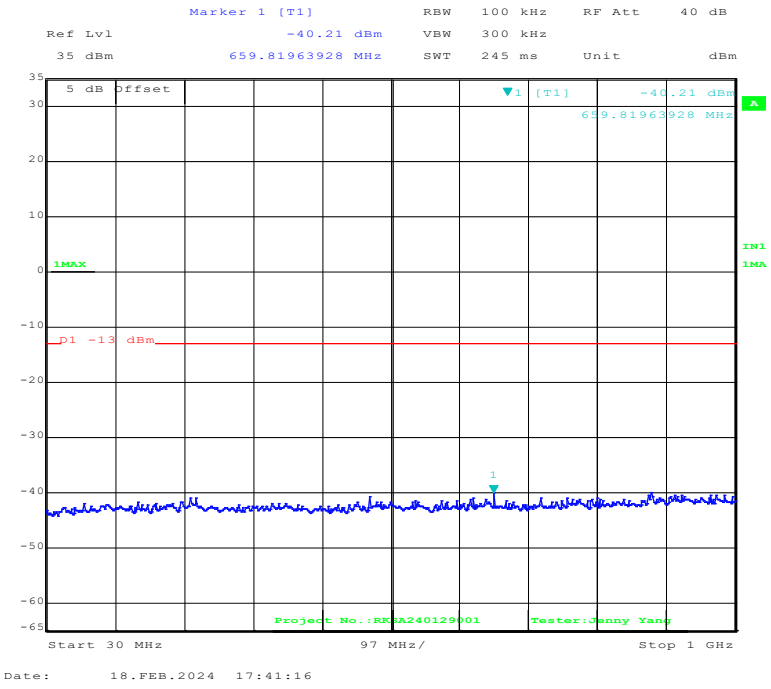
1 GHz – 18 GHz WCDMA (HSPA+) Mode, Middle channel



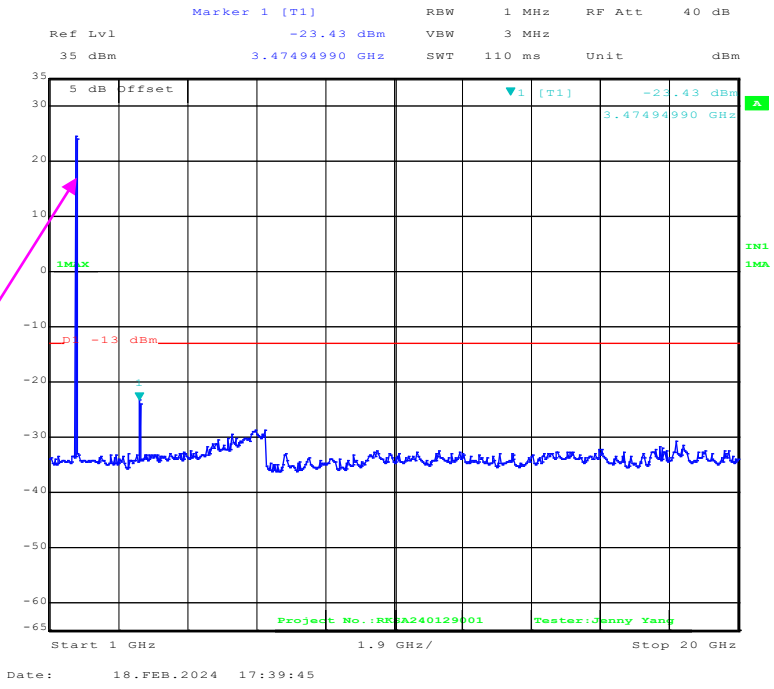
Fundamental

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:15:42

30 MHz – 1GHz WCDMA (Rel 99) Mode, High channel

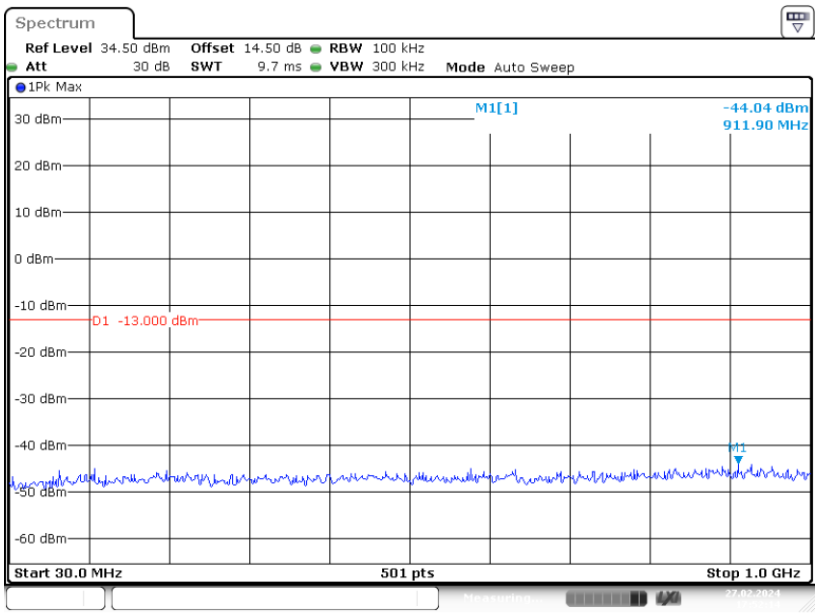


1 GHz – 20 GHz WCDMA (Rel 99) Mode, High channel



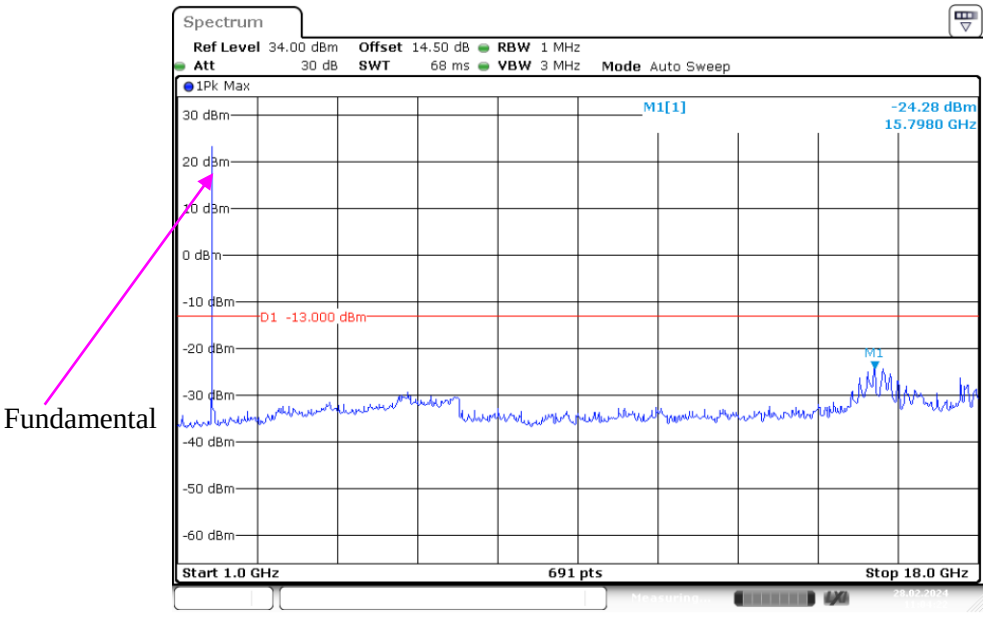
Fundamental

30 MHz – 1GHz WCDMA (HSDPA) Mode, High channel



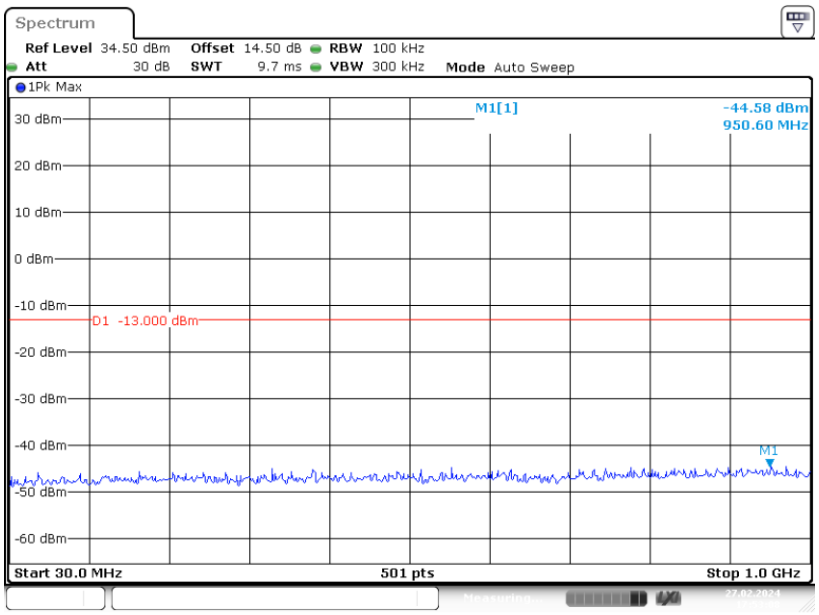
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:52:14

1 GHz – 18 GHz WCDMA (HSDPA) Mode, High channel



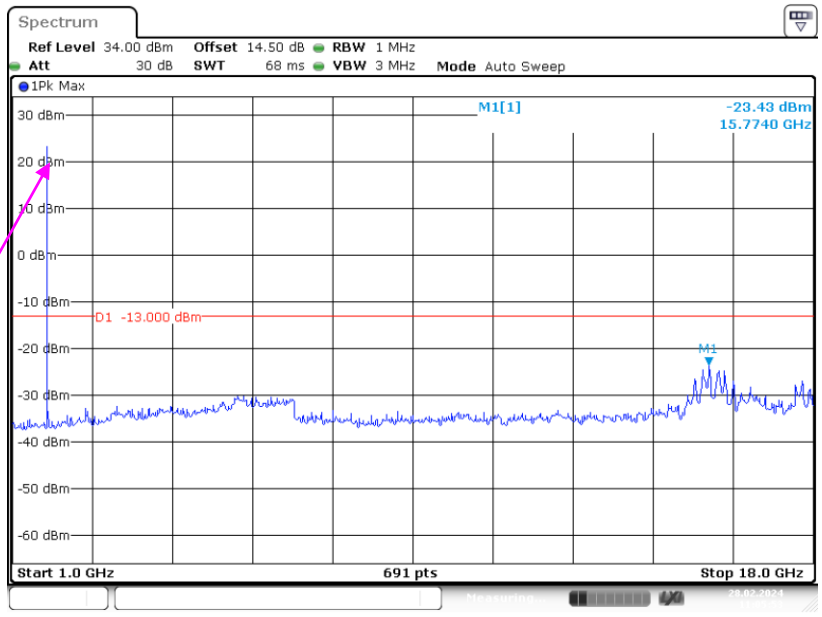
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:04:22

30 MHz – 1GHz WCDMA (HSUPA) Mode, High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:53:09

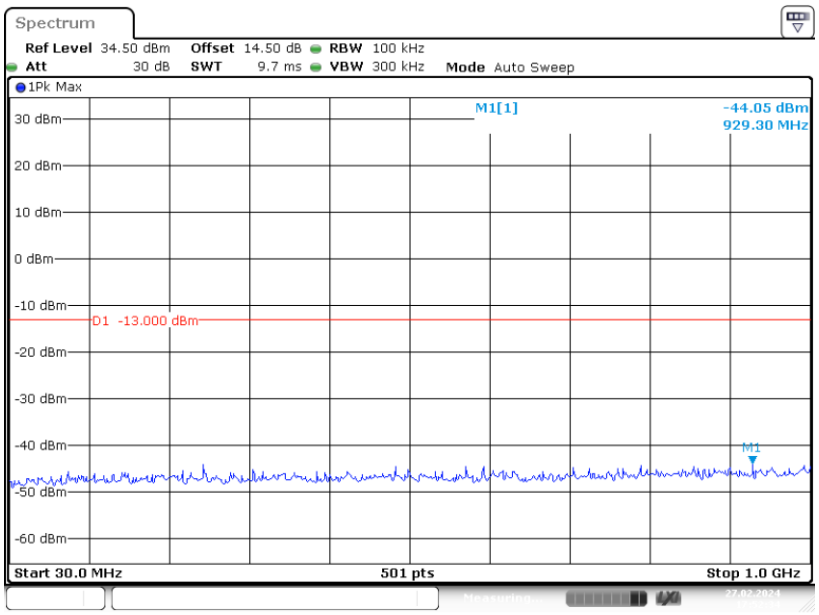
1 GHz – 18 GHz WCDMA (HSUPA) Mode, High channel



Fundamental

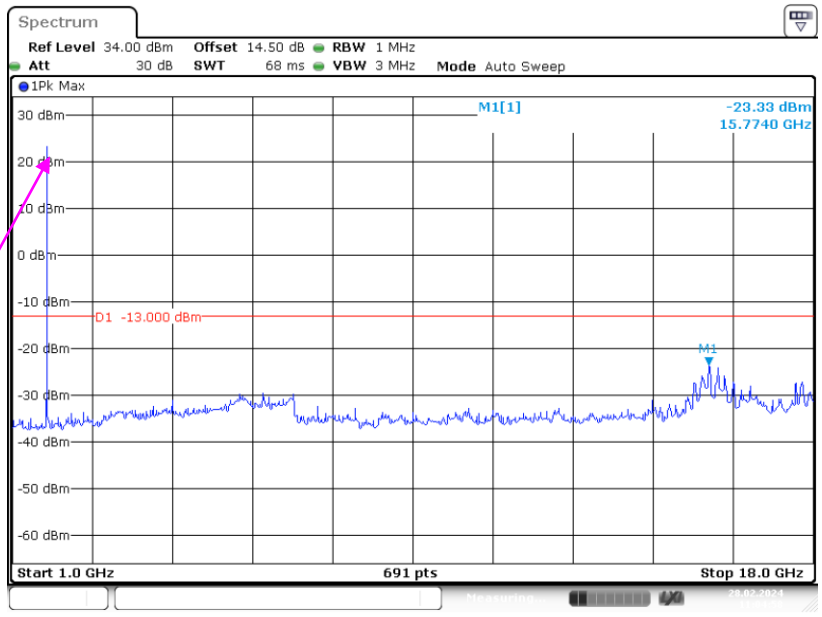
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:05:54

30 MHz – 1GHz WCDMA (HSPA+) Mode, High channel



ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:52:34

1 GHz – 18 GHz WCDMA (HSPA+) Mode, High channel



Fundamental

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:04:58

SPURIOUS RADIATED EMISSIONS

Test mode: Transmitting (Pre-scan with all the bandwidth, and worst case as below)
30 MHz - 10 GHz:

GPRS 850 Band

Frequency (MHz)	Receiver Reading (dBµV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
GPRS Mode, Low channel										
768.60	49.78	252	100	H	-50.32	0.62	-1.41	-52.35	-13	39.35
768.60	48.41	191	150	V	-49.14	0.62	-1.41	-51.17	-13	38.17
1648.40	65.50	66	100	H	-47.85	0.84	8.44	-40.25	-13	27.25
1648.40	64.37	95	150	V	-48.98	0.84	8.44	-41.38	-13	28.38
GPRS Mode, Middle channel										
768.60	51.55	224	100	H	-48.55	0.62	-1.41	-50.58	-13	37.58
768.60	49.10	296	200	V	-48.45	0.62	-1.41	-50.48	-13	37.48
1673.20	63.18	134	200	H	-49.99	0.84	8.48	-42.35	-13	29.35
1673.20	62.43	21	200	V	-50.74	0.84	8.48	-43.10	-13	30.10
GPRS Mode, High channel										
768.60	50.95	1	200	H	-49.15	0.62	-1.41	-51.18	-13	38.18
768.60	47.92	105	200	V	-49.63	0.62	-1.41	-51.66	-13	38.66
1697.60	62.87	241	200	H	-50.13	0.84	8.52	-42.45	-13	29.45
1697.60	62.35	212	100	V	-50.65	0.84	8.52	-42.97	-13	29.97

WCDMA Band V

Frequency (MHz)	Receiver Reading (dBµV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Mode, Low channel										
768.60	51.17	197	150	H	-48.93	0.62	-1.41	-50.96	-13	37.96
768.60	48.38	284	150	V	-49.17	0.62	-1.41	-51.20	-13	38.20
1652.80	62.56	344	150	H	-50.75	0.84	8.44	-43.15	-13	30.15
1652.80	62.08	61	200	V	-51.23	0.84	8.44	-43.63	-13	30.63
WCDMA Mode, Middle channel										
768.60	50.80	348	100	H	-49.30	0.62	-1.41	-51.33	-13	38.33
768.60	47.99	257	150	V	-49.56	0.62	-1.41	-51.59	-13	38.59
1673.20	63.05	216	150	H	-50.12	0.84	8.48	-42.48	-13	29.48
1673.20	62.86	96	200	V	-50.31	0.84	8.48	-42.67	-13	29.67
WCDMA Mode, High channel										
768.60	50.92	138	200	H	-49.18	0.62	-1.41	-51.21	-13	38.21
768.60	47.72	323	100	V	-49.83	0.62	-1.41	-51.86	-13	38.86
1693.20	62.71	317	100	H	-50.32	0.84	8.51	-42.65	-13	29.65
1693.20	62.61	343	200	V	-50.42	0.84	8.51	-42.75	-13	29.75

30 MHz ~ 20 GHz:

PCS 1900 Band

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
GPRS Mode, Low channel										
363.50	57.26	358	200	H	-50.31	0.50	-1.64	-52.45	-13	39.45
363.50	53.68	90	100	V	-50.55	0.50	-1.64	-52.69	-13	39.69
3700.40	53.84	197	150	H	-53.13	0.95	9.78	-44.30	-13	31.30
3700.40	53.46	120	200	V	-53.51	0.95	9.78	-44.68	-13	31.68
GPRS Mode, Middle channel										
363.50	57.52	290	200	H	-50.05	0.50	-1.64	-52.19	-13	39.19
363.50	53.89	2	150	V	-50.34	0.50	-1.64	-52.48	-13	39.48
3760.00	54.03	35	200	H	-52.75	0.95	9.74	-43.96	-13	30.96
3760.00	53.63	36	100	V	-53.15	0.95	9.74	-44.36	-13	31.36
GPRS Mode, High channel										
363.50	57.73	122	150	H	-49.84	0.50	-1.64	-51.98	-13	38.98
363.50	54.53	231	200	V	-49.70	0.50	-1.64	-51.84	-13	38.84
3819.60	52.86	351	200	H	-53.73	0.96	9.71	-44.98	-13	31.98
3819.60	53.19	36	150	V	-53.40	0.96	9.71	-44.65	-13	31.65

WCDMA Band II

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Mode, Low channel										
345.10	57.36	225	100	H	-50.96	0.49	-1.79	-53.24	-13	40.24
345.10	52.92	177	150	V	-51.41	0.49	-1.79	-53.69	-13	40.69
3704.80	53.87	297	150	H	-53.08	0.95	9.78	-44.25	-13	31.25
3704.80	52.78	19	150	V	-54.17	0.95	9.78	-45.34	-13	32.34
WCDMA Mode, Middle channel										
345.10	57.71	93	150	H	-50.61	0.49	-1.79	-52.89	-13	39.89
345.10	53.48	62	150	V	-50.85	0.49	-1.79	-53.13	-13	40.13
3760.00	54.01	55	200	H	-52.77	0.95	9.74	-43.98	-13	30.98
3760.00	53.75	83	200	V	-53.03	0.95	9.74	-44.24	-13	31.24
WCDMA Mode, High channel										
345.10	57.63	226	100	H	-50.69	0.49	-1.79	-52.97	-13	39.97
345.10	53.49	12	200	V	-50.84	0.49	-1.79	-53.12	-13	40.12
3815.20	54.48	8	150	H	-52.12	0.96	9.71	-43.37	-13	30.37
3815.20	54.87	162	150	V	-51.73	0.96	9.71	-42.98	-13	29.98

WCDMA Band IV

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
Low channel										
345.10	58.25	310	200	H	-50.07	0.49	-1.79	-52.35	-13	39.35
345.10	53.72	353	100	V	-50.61	0.49	-1.79	-52.89	-13	39.89
3424.80	53.88	155	100	H	-54.04	0.93	9.83	-45.14	-13	32.14
3424.80	53.31	153	100	V	-54.61	0.93	9.83	-45.71	-13	32.71
Middle channel										
345.10	59.25	27	100	H	-49.07	0.49	-1.79	-51.35	-13	38.35
345.10	53.93	227	200	V	-50.40	0.49	-1.79	-52.68	-13	39.68
3465.20	54.71	98	200	H	-53.04	0.93	9.87	-44.10	-13	31.10
3465.20	53.49	55	150	V	-54.26	0.93	9.87	-45.32	-13	32.32
High channel										
345.10	58.75	351	100	H	-49.57	0.49	-1.79	-51.85	-13	38.85
345.10	54.27	263	200	V	-50.06	0.49	-1.79	-52.34	-13	39.34
3505.20	55.83	75	150	H	-51.75	0.93	9.90	-42.78	-13	29.78
3505.20	55.36	147	100	V	-52.22	0.93	9.90	-43.25	-13	30.25

Test mode: Transmitting (Pre-scan with 1RB of all the bandwidth, and worst case as below)

30 MHz ~ 10 GHz:

LTE Band 5:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
274.30	43.77	265	200	H	-60.47	0.45	-2.20	-63.12	-13	50.12
274.30	47.30	48	100	V	-60.62	0.45	-2.20	-63.27	-13	50.27
1649.40	60.56	4	200	H	-52.78	0.84	8.44	-45.18	-13	32.18
1649.40	61.78	101	100	V	-51.56	0.84	8.44	-43.96	-13	30.96
QPSK 1.4MHz Bandwidth Middle Channel										
274.30	43.04	321	100	H	-61.20	0.45	-2.20	-63.85	-13	50.85
274.30	46.32	82	200	V	-61.60	0.45	-2.20	-64.25	-13	51.25
1673.00	59.56	33	150	H	-53.61	0.84	8.48	-45.97	-13	32.97
1673.00	59.41	175	150	V	-53.76	0.84	8.48	-46.12	-13	33.12
QPSK 1.4MHz Bandwidth High Channel										
274.30	43.79	95	150	H	-60.45	0.45	-2.20	-63.10	-13	50.10
274.30	47.86	50	150	V	-60.06	0.45	-2.20	-62.71	-13	49.71
1696.60	59.52	129	150	H	-53.49	0.84	8.52	-45.81	-13	32.81
1696.60	60.07	306	100	V	-52.94	0.84	8.52	-45.26	-13	32.26

LTE Band 12:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
263.30	45.38	147	150	H	-57.58	0.45	-2.22	-60.25	-13	47.25
263.30	51.50	161	100	V	-57.22	0.45	-2.22	-59.89	-13	46.89
1399.40	65.54	292	200	H	-48.63	0.82	7.92	-41.53	-13	28.53
1399.40	65.82	183	100	V	-48.35	0.82	7.92	-41.25	-13	28.25
QPSK 1.4MHz Bandwidth Middle Channel										
263.30	45.04	107	150	H	-57.92	0.45	-2.22	-60.59	-13	47.59
263.30	50.14	258	100	V	-58.58	0.45	-2.22	-61.25	-13	48.25
1415.00	66.91	268	150	H	-47.29	0.82	7.96	-40.15	-13	27.15
1415.00	66.03	359	150	V	-48.17	0.82	7.96	-41.03	-13	28.03
QPSK 1.4MHz Bandwidth High Channel										
263.30	44.16	211	100	H	-58.80	0.45	-2.22	-61.47	-13	48.47
263.30	49.05	1	100	V	-59.67	0.45	-2.22	-62.34	-13	49.34
1430.60	65.79	183	200	H	-48.44	0.82	8.01	-41.25	-13	28.25
1430.60	65.71	81	150	V	-48.52	0.82	8.01	-41.33	-13	28.33

LTE Band 13:

Frequency (MHz)	Receiver Reading (dBµV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel										
242.90	42.43	217	150	H	-59.59	0.44	-2.49	-62.52	-13	49.52
242.90	49.51	129	150	V	-59.53	0.44	-2.49	-62.46	-13	49.46
1559.00	63.94	188	150	H	-50.02	0.83	8.29	-42.56	-40	2.56
1559.00	63.61	268	150	V	-50.35	0.83	8.29	-42.89	-40	2.89
QPSK 5MHz Bandwidth Middle Channel										
242.90	45.08	97	150	H	-56.94	0.44	-2.49	-59.87	-13	46.87
242.90	51.66	242	100	V	-57.38	0.44	-2.49	-60.31	-13	47.31
1564.00	64.10	7	150	H	-49.83	0.83	8.30	-42.36	-40	2.36
1564.00	64.48	316	150	V	-49.45	0.83	8.30	-41.98	-40	1.98
QPSK 5MHz Bandwidth High Channel										
242.90	43.63	193	100	H	-58.39	0.44	-2.49	-61.32	-13	48.32
242.90	50.55	67	200	V	-58.49	0.44	-2.49	-61.42	-13	48.42
1569.00	65.29	359	200	H	-48.60	0.83	8.31	-41.12	-40	1.12
1569.00	65.01	346	150	V	-48.88	0.83	8.31	-41.40	-40	1.40

LTE Band 17:

Frequency (MHz)	Receiver Reading (dBµV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel										
295.20	44.00	101	200	H	-62.66	0.46	-2.16	-65.28	-13	52.28
295.20	43.53	245	200	V	-62.85	0.46	-2.16	-65.47	-13	52.47
1413.00	66.71	288	200	H	-47.49	0.82	7.96	-40.35	-13	27.35
1413.00	65.45	274	100	V	-48.75	0.82	7.96	-41.61	-13	28.61
QPSK 5MHz Bandwidth Middle Channel										
295.20	44.43	105	150	H	-62.23	0.46	-2.16	-64.85	-13	51.85
295.20	44.08	14	200	V	-62.30	0.46	-2.16	-64.92	-13	51.92
1420.00	66.60	203	100	H	-47.61	0.82	7.98	-40.45	-13	27.45
1420.00	66.18	287	100	V	-48.03	0.82	7.98	-40.87	-13	27.87
QPSK 5MHz Bandwidth High Channel										
295.20	45.75	11	100	H	-60.91	0.46	-2.16	-63.53	-13	50.53
295.20	45.33	326	200	V	-61.05	0.46	-2.16	-63.67	-13	50.67
1427.00	64.89	338	100	H	-49.33	0.82	8.00	-42.15	-13	29.15
1427.00	64.66	127	200	V	-49.56	0.82	8.00	-42.38	-13	29.38

LTE Band 26:

Frequency (MHz)	Receiver Reading (dBµV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
245.50	42.29	225	150	H	-59.51	0.44	-2.40	-62.35	-13	49.35
245.50	49.23	141	200	V	-60.05	0.44	-2.40	-62.89	-13	49.89
1629.40	62.37	266	200	H	-51.11	0.84	8.41	-43.54	-13	30.54
1629.40	61.43	265	100	V	-52.05	0.84	8.41	-44.48	-13	31.48
QPSK 1.4MHz Bandwidth Middle Channel										
245.50	41.89	288	150	H	-59.91	0.46	-2.16	-62.53	-13	49.53
245.50	48.75	10	100	V	-60.53	0.46	-2.16	-63.15	-13	50.15
1663.00	62.41	228	100	H	-50.83	0.84	8.46	-43.21	-13	30.21
1663.00	61.08	174	200	V	-52.16	0.84	8.46	-44.54	-13	31.54
QPSK 1.4MHz Bandwidth High Channel										
245.50	42.37	216	100	H	-59.43	0.46	-2.16	-62.05	-13	49.05
245.50	48.32	157	100	V	-60.96	0.46	-2.16	-63.58	-13	50.58
1696.60	61.45	30	200	H	-51.56	0.84	8.51	-43.89	-13	30.89
1696.60	60.60	196	100	V	-52.41	0.84	8.51	-44.74	-13	31.74

30 MHz ~ 20 GHz:

LTE Band 2:

Frequency (MHz)	Receiver Reading (dBµV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
257.80	43.57	289	200	H	-58.75	0.44	-2.23	-61.42	-13	48.42
257.80	51.22	152	100	V	-57.91	0.44	-2.23	-60.58	-13	47.58
3701.40	53.61	326	200	H	-53.35	0.95	9.78	-44.52	-13	31.52
3701.40	53.50	323	100	V	-53.46	0.95	9.78	-44.63	-13	31.63
QPSK 1.4MHz Bandwidth Middle Channel										
257.80	43.24	351	100	H	-59.08	0.44	-2.23	-61.75	-13	48.75
257.80	50.34	164	200	V	-58.79	0.44	-2.23	-61.46	-13	48.46
3760.00	54.67	46	200	H	-52.11	0.95	9.74	-43.32	-13	30.32
3760.00	54.71	61	150	V	-52.07	0.95	9.74	-43.28	-13	30.28
QPSK 1.4MHz Bandwidth High Channel										
257.80	42.63	80	200	H	-59.69	0.44	-2.23	-62.36	-13	49.36
257.80	49.44	92	100	V	-59.69	0.44	-2.23	-62.36	-13	49.36
3818.60	60.49	116	200	H	-51.05	0.85	8.85	-43.05	-13	30.05
3818.60	60.67	107	200	V	-50.87	0.85	8.85	-42.87	-13	29.87

LTE Band 4:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
152.31	48.79	200	150	H	-56.00	0.37	-6.05	-62.42	-13	49.42
152.31	44.63	3	100	V	-56.23	0.37	-6.05	-62.65	-13	49.65
3421.40	55.40	167	100	H	-52.54	0.93	9.82	-43.65	-13	30.65
3421.40	55.60	221	150	V	-52.34	0.93	9.82	-43.45	-13	30.45
QPSK 1.4MHz Bandwidth Middle Channel										
152.31	48.86	113	100	H	-55.93	0.37	-6.05	-62.35	-13	49.35
152.31	45.09	258	100	V	-55.77	0.37	-6.05	-62.19	-13	49.19
3465.00	55.10	356	200	H	-52.65	0.93	9.87	-43.71	-13	30.71
3465.00	55.24	24	200	V	-52.51	0.93	9.87	-43.57	-13	30.57
QPSK 1.4MHz Bandwidth High Channel										
152.31	49.08	13	200	H	-55.71	0.37	-6.05	-62.13	-13	49.13
152.31	45.07	34	200	V	-55.79	0.37	-6.05	-62.21	-13	49.21
3508.60	55.36	274	150	H	-52.21	0.93	9.89	-43.25	-13	30.25
3508.60	55.25	325	100	V	-52.32	0.93	9.89	-43.36	-13	30.36

LTE Band 25:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
163.58	47.40	184	200	H	-57.59	0.38	-5.55	-63.52	-13	50.52
163.58	44.55	14	150	V	-57.31	0.38	-5.55	-63.24	-13	50.24
3701.40	54.45	324	150	H	-52.51	0.95	9.78	-43.68	-13	30.68
3701.40	54.62	287	200	V	-52.34	0.95	9.78	-43.51	-13	30.51
QPSK 1.4MHz Bandwidth Middle Channel										
163.58	47.36	281	200	H	-57.63	0.38	-5.55	-63.56	-13	50.56
163.58	43.76	16	150	V	-58.10	0.38	-5.55	-64.03	-13	51.03
3765.00	54.46	230	150	H	-52.32	0.95	9.74	-43.53	-13	30.53
3765.00	54.35	15	200	V	-52.43	0.95	9.74	-43.64	-13	30.64
QPSK 1.4MHz Bandwidth High Channel										
163.58	47.53	97	200	H	-57.46	0.38	-5.55	-63.39	-13	50.39
163.58	44.32	360	100	V	-57.54	0.38	-5.55	-63.47	-13	50.47
3828.60	54.34	159	150	H	-52.22	0.96	9.70	-43.48	-13	30.48
3828.60	54.07	240	100	V	-52.49	0.96	9.70	-43.75	-13	30.75

LTE Band 66:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
155.64	45.92	57	100	H	-58.93	0.38	-5.90	-65.21	-13	52.21
155.64	41.98	67	150	V	-59.18	0.38	-5.90	-65.46	-13	52.46
3421.40	54.57	164	150	H	-53.28	0.92	9.95	-44.25	-13	31.25
3421.40	54.51	92	200	V	-53.34	0.92	9.95	-44.31	-13	31.31
QPSK 1.4MHz Bandwidth Middle Channel										
155.64	46.42	132	100	H	-58.43	0.37	-6.09	-64.89	-13	51.89
155.64	42.60	335	150	V	-58.56	0.37	-6.09	-65.02	-13	52.02
3490.00	53.79	177	100	H	-53.84	0.93	9.91	-44.86	-13	31.86
3490.00	54.31	195	150	V	-53.32	0.93	9.91	-44.34	-13	31.34
QPSK 1.4MHz Bandwidth High Channel										
155.64	46.77	191	200	H	-58.08	0.35	-6.10	-64.53	-13	51.53
155.64	42.93	236	100	V	-58.23	0.35	-6.10	-64.68	-13	51.68
3558.60	53.50	34	200	H	-53.92	0.93	9.87	-44.98	-13	31.98
3558.60	53.73	327	150	V	-53.69	0.93	9.87	-44.75	-13	31.75

30 MHz ~ 26 GHz:

LTE Band 7:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel										
215.40	45.81	152	100	H	-58.52	0.43	-3.43	-62.38	-25	37.38
215.40	48.23	234	100	V	-58.27	0.43	-3.43	-62.13	-25	37.13
5005.00	47.23	292	150	H	-58.76	1.08	10.30	-49.54	-25	24.54
5005.00	46.57	310	100	V	-59.42	1.08	10.30	-50.20	-25	25.20
QPSK 5MHz Bandwidth Middle Channel										
215.40	45.72	160	150	H	-58.61	0.43	-3.43	-62.47	-25	37.47
215.40	47.94	222	100	V	-58.56	0.43	-3.43	-62.42	-25	37.42
5070.00	45.63	292	100	H	-60.00	1.09	10.30	-50.79	-25	25.79
5070.00	46.07	49	100	V	-59.56	1.09	10.30	-50.35	-25	25.35
QPSK 5MHz Bandwidth High Channel										
215.40	45.41	117	150	H	-58.92	0.43	-3.43	-62.78	-25	37.78
215.40	48.01	225	200	V	-58.49	0.43	-3.43	-62.35	-25	37.35
5135.00	46.29	344	150	H	-58.98	1.10	10.30	-49.78	-25	24.78
5135.00	46.09	144	200	V	-59.18	1.10	10.30	-49.98	-25	24.98

30 MHz ~ 26.5 GHz:

LTE Band 41:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel										
226.30	43.66	262	200	H	-59.76	0.43	-3.06	-63.25	-25	38.25
226.30	46.31	30	150	V	-61.20	0.43	-3.06	-64.69	-25	39.69
4997.00	54.28	298	100	H	-51.75	1.08	10.30	-42.53	-25	17.53
4997.00	53.10	210	200	V	-52.93	1.08	10.30	-43.71	-25	18.71
QPSK 5MHz Bandwidth Low Middle Channel										
226.30	44.37	23	200	H	-59.05	0.43	-3.06	-62.54	-25	37.54
226.30	46.55	154	100	V	-60.96	0.43	-3.06	-64.45	-25	39.45
5091.60	55.94	351	200	H	-49.57	1.09	10.30	-40.36	-25	15.36
5091.60	54.56	99	150	V	-50.95	1.09	10.30	-41.74	-25	16.74
QPSK 5MHz Bandwidth Middle Channel										
226.30	44.76	212	100	H	-58.66	0.43	-3.06	-62.15	-25	37.15
226.30	46.68	54	100	V	-60.83	0.43	-3.06	-64.32	-25	39.32
5186.00	55.36	229	100	H	-49.63	1.10	10.30	-40.43	-25	15.43
5186.00	53.94	327	200	V	-51.05	1.10	10.30	-41.85	-25	16.85
QPSK 5MHz Bandwidth Middle High Channel										
226.30	44.93	11	200	H	-58.49	0.43	-3.06	-61.98	-25	36.98
226.30	46.91	317	200	V	-60.60	0.43	-3.06	-64.09	-25	39.09
5280.60	52.43	80	200	H	-52.03	1.11	10.30	-42.84	-25	17.84
5280.60	51.32	215	200	V	-53.14	1.11	10.30	-43.95	-25	18.95
QPSK 5MHz Bandwidth High Channel										
226.30	45.17	22	150	H	-58.25	0.43	-3.06	-61.74	-25	36.74
226.30	47.15	145	150	V	-60.36	0.43	-3.06	-63.85	-25	38.85
5375.00	54.41	182	100	H	-49.52	1.13	10.30	-40.35	-25	15.35
5375.00	53.00	128	150	V	-50.93	1.13	10.30	-41.76	-25	16.76