

QE MS1 Reference (Revision 4)

NOTE: Retention times may shift slightly depending on the age/condition of the column. This list will be updated as new compounds are added to the method and/or cutoff solution.

Compound	m/z	RT (min)	Cutoff (ng/mL)
2-Hydroxyethylflurazepam	333.0792	8.51	10
6-MAM	328.1543	3.16	5
7-Aminoclonazepam	286.0742	5.07	10
7-Aminoflunitrazepam	284.1193	5.85	10
7-Aminonitrazepam	252.1131	4.44	10
Acetyl Fentanyl	323.2118	5.89	1
Acryl Fentanyl	335.2118	6.53	1
Alpha-hydroxyalprazolam	325.0851	8.16	10
Alpha-hydroxymidazolam	342.0804	8.71	10
Alpha-hydroxytriazolam	359.0461	8.05	10
Alprazolam	309.0902	8.51	10
Amitriptyline	278.1903	8.34	10
Amphetamine	136.1121	2.47	20
Benzoylecgonine	290.1387	4.17	50
Bromazepam	316.008	7.42	10
Bromazolam	353.0396	8.73	10
Buprenorphine	468.3108	8.12	1
Bupropion	240.115	5.79	10
Butalbital-D5	228.1402	6.84	N/A
Butalbital	223.1088	6.88	300
Butyryl Fentanyl	351.2431	7.46	1
Carbamazepine-10,11-epoxide	253.0972	6.43	500
Carbamazepine	237.1022	7.72	1000
Carfentanil	395.2329	7.15	1
Carisoprodol	261.1809	8.43	500
Chlordiazepoxide	300.0898	8.63	20
Chlorpheniramine	275.131	6.57	10
Chlorpromazine	319.103	8.87	10
Citalopram	325.1711	6.97	10
Clobazam	301.0738	8.28	20
Clonazepam	316.0484	7.94	10
Clonazolam	354.0752	7.78	10
Clonidine	230.0246	2.28	5
Clozapine	327.1371	7.39	20
Cocaethylene	318.17	5.89	10
Cocaine	304.1543	4.99	10
Codeine	300.1594	2.32	10

Cyclobenzaprine	276.1747	8.10	5
Cyclopropyl Fentanyl	349.2274	7.07	1
Demoxepam	287.0582	7.44	20
Deschloroetizolam	309.1168	8.85	10
Desipramine	267.1856	8.18	10
Desmethylocitalopram	311.1554	7.01	10
Diazepam-D5	290.1103	9.37	N/A
Diazepam	285.0789	9.41	20
Dihydrocodeine	302.1751	2.24	5
Diphenhydramine	256.1696	6.93	50
DMT (N,N-Dimethyltryptamine)	189.1386	2.54	20
Doxepin	280.1696	7.17	10
Doxylamine	271.1805	5.4	5
EDDP	278.1903	6.97	10
Ephedrine	166.1226	1.87	10
Estazolam	295.0745	8.18	10
Etizolam	343.0779	8.91	10
Etomidate	245.1285	8.99	50
Fentanyl	337.2274	6.71	1
Flualprazolam	327.0807	8.32	10
Flunitrazepam	314.0936	8.06	10
Fluoxetine	310.1413	8.73	10
Flurazepam	388.1575	7.07	5
Furanyl Fentanyl	375.2057	6.83	1
Gabapentin	172.1328	1.91	1000
Haloperidol	376.1463	7.58	5
Hydrocodone	300.1585	2.87	10
Hydromorphone	286.1438	1.24	5
Imipramine	281.2012	8.06	10
Ketamine	238.0993	4.44	10
Lamotrigine	256.0144	4.91	300
Lorazepam	321.0192	8.53	10
LSD	324.206	5.97	2
m-CPP	197.084	4.40	10
MDA	180.1019	2.87	20
MDEA	208.1332	3.70	20
MDMA	194.1176	3.08	20
MDPV	276.1594	5.30	20
Medazepam	271.0996	8.65	20
Medetomidine	201.1386	6.45	10
Meperidine	248.1645	5.40	20
Meprobamate	219.1339	6.15	500
meta-methylfentanyl	351.2431	7.41	1

Methadone	310.2165	8.28	20
Methamphetamine	150.1277	2.77	20
Methaqualone	251.1179	8.14	200
Methorphan	272.2009	6.91	10
Methoxyacetyl fentanyl	353.2224	5.66	1
Methylone	208.0968	2.38	20
Methylphenidate	234.1489	5.01	10
Midazolam	326.0855	8.42	10
Mirtazapine	266.1652	5.67	10
Mitragynine	399.2278	7.03	10
Morphine	286.1438	0.77	10
Naloxone	328.1543	2.42	1
N-desmethyltramadol	250.1802	5.18	10
Nitrazepam	282.0873	7.83	10
Norbuprenorphine	414.2639	6.49	1
Norcarfentanil	291.1703	5.16	1
Norchlordiazepoxide	286.0742	7.90	20
Norcyclobenzaprine	262.1583	8.22	5
Nordiazepam	271.0633	9.13	20
Norfentanyl	233.1648	4.52	1
Norfluoxetine	296.1257	8.77	10
Norketamine	224.0837	4.42	10
Normeperidine	234.1489	5.59	20
Norpropoxyphene	326.2115	8.20	20
Norsertraline	275.0389	9.13	10
Nortriptyline	264.1747	8.47	10
O-desmethyltramadol	250.1802	3.29	10
O-desmethylvenlafaxine	264.1958	4.52	20
Olanzapine	313.1481	4.99	5
ortho-methyl fentanyl	351.2431	7.19	1
Oxazepam	287.0582	8.43	20
Oxcarbazepine	253.0965	6.83	500
Oxycodone	316.1543	2.61	10
Oxymorphone	302.1387	0.96	5
para-Fluorofentanyl	355.21802	6.84	1
para-methylfentanyl	351.24310	7.50	1
Paroxetine	330.15	8.12	10
Pentobarbital	225.1244	7.71	300
Phenazepam	348.9738	9.19	20
Phencyclidine	244.206	6.21	10
Phendimetrazine	192.1383	2.67	20
Phenmetrazine	178.12264	2.67	20
Phenobarbital	231.0775	5.70	500

Phenytoin	251.0826	7.45	500
Prazepam	325.1096	10.52	20
Propoxyphene	340.2271	8.08	20
Pseudoephedrine	166.12264	2.08	10
Psilocin	205.13354	1.58	20
Quetiapine	384.174	7.60	20
Risperidone	411.2191	6.45	5
Secobarbital	237.1245	8.21	500
Sertraline	306.0811	8.97	10
Tapentadol	222.1852	5.22	10
Temazepam	301.0738	8.73	20
THC-COOH (delta-9)	345.206	12.02	5
THC-COOH (delta-8)	345.206	11.91	N/A
THC (delta-9)	315.2319	12.98	1
THC (delta-8)	315.2319	13.03	N/A
THC (delta-10)	315.2319	13.11	N/A
THC (delta-6a,10a)	315.2319	13.09	N/A
THC-OH (delta-9)	331.2268	11.83	1
Tianeptine	437.1296	7.92	10
Topiramate	340.1061	6.19	500
Tramadol	264.1958	4.83	50
Trazodone	372.1586	6.49	100
Triazolam	343.0512	8.57	5
Venlafaxine	278.2115	6.35	20
Xylazine	221.1107	4.52	10
Zaleplon	306.1341	7.28	10
Zolpidem	308.1757	6.07	10
Zopiclone	389.1123	4.83	10