

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040837.D
 Acq On : 20 Oct 2020 04:28
 Operator : SY/MD
 Sample : L4428-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ34

Quant Time: Oct 20 05:22:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 05:12:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	114346	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	116267	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	47407	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	28678	3.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.60%
7) Chloroethane-d5	1.92	69	27960	3.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.60%
11) 1,1-Dichloroethene-d2	2.58	63	43660	2.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	47.20%#
20) 2-Butanone-d5	4.66	46	182518	60.20	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.40%
24) Chloroform-d	5.08	84	77863	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
26) 1,2-Dichloroethane-d4	5.72	65	48524	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
32) Benzene-d6	5.74	84	127663	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.40%
36) 1,2-Dichloropropane-d6	6.70	67	47385	4.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.00%
41) Toluene-d8	7.91	98	94393	3.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.20%#
43) trans-1,3-Dichloropropene-	8.18	79	16881	3.83	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.60%
46) 2-Hexanone-d5	8.64	63	115111	50.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.30%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48008	5.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	44918	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.65	85	494	0.048	ug/L #	85
3) Chloromethane	1.52	50	1874	0.193	ug/L #	59
5) Vinyl chloride	1.61	62	434871	42.621	ug/L	88
8) Chloroethane	2.12	64	1398	0.215	ug/L #	50
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	735	0.077	ug/L #	1
12) 1,1-Dichloroethene	2.59	96	2582	0.316	ug/L #	1
14) Carbon disulfide	2.80	76	1402	0.061	ug/L #	76
15) Methyl Acetate	3.06	43	1019	0.190	ug/L #	56
17) Methyl tert-butyl Ether	3.38	73	10814	0.469	ug/L #	72
18) trans-1,2-Dichloroethene	3.37	96	11039	1.293	ug/L	98
19) 1,1-Dichloroethane	3.89	63	797	0.045	ug/L #	89
22) cis-1,2-Dichloroethene	4.69	96	881027	95.660	ug/L	99
27) 1,2-Dichloroethane	5.81	62	531	0.042	ug/L #	77
30) Cyclohexane	5.40	56	2743	0.191	ug/L	97
34) Trichloroethene	6.56	95	9715	1.003	ug/L	94
35) Methylcyclohexane	6.77	83	1480	0.108	ug/L #	65
37) 1,2-Dichloropropane	6.70	63	5933	0.570	ug/L #	87

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Quant Title : TRACE VOA SOM01.0
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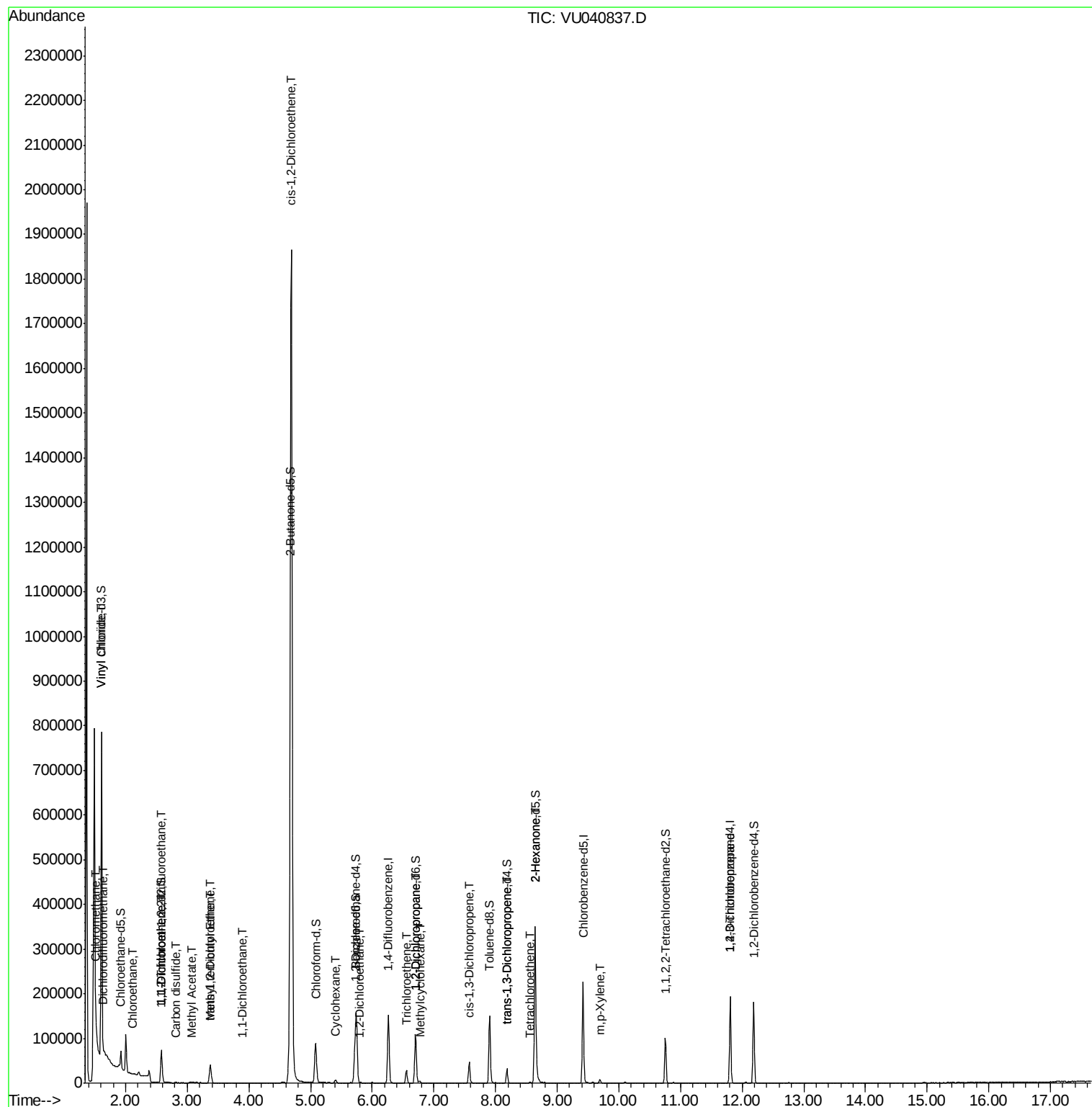
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	1192	0.084	ug/L #	55
44) trans-1,3-Dichloropropene	8.19	75	674	0.051	ug/L	90
47) Tetrachloroethene	8.55	164	500	0.072	ug/L #	75
48) 2-Hexanone	8.64	43	16187	2.620	ug/L #	75
53) m,p-Xylene	9.69	106	2032	0.135	ug/L	88
59) 1,2,3-Trichloropropane	11.81	75	6721	0.879	ug/L	93

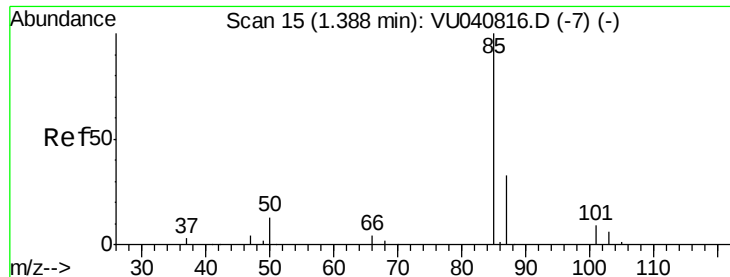
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.048 ug/L

RT: 1.65 min Scan# 95

Delta R.T. 0.26 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampled :

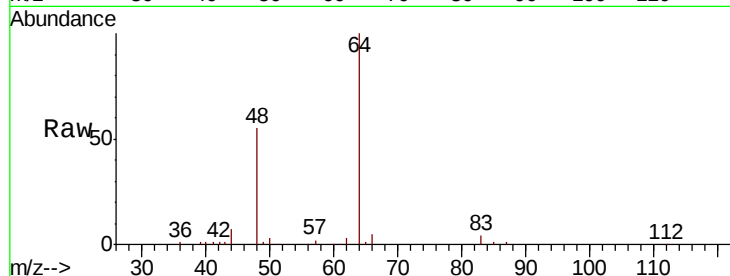
ETZ34

Tot Ion: 85 Resp: 494

Ion Ratio Lower Upper

85 100

87 24.3 26.2 39.4#



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.65

400

300

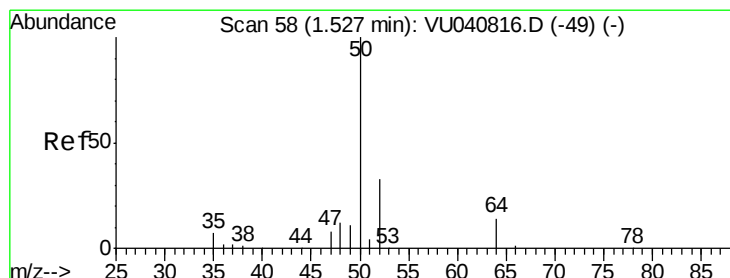
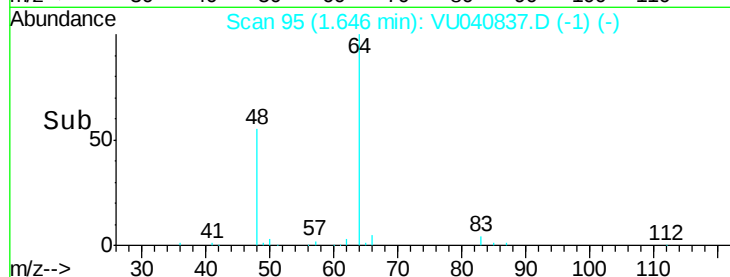
200

100

0

1.62 1.64 1.66

Time-->



#3

Chloromethane

Concen: 0.193 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU040837.D

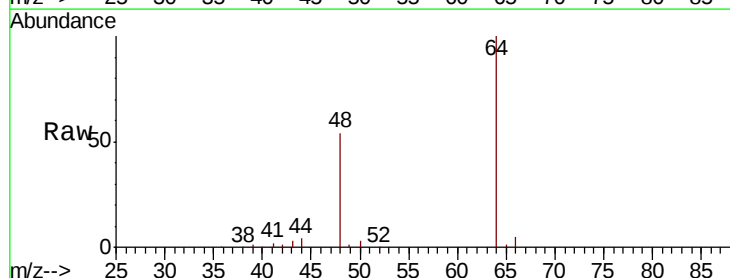
Acq: 20 Oct 2020 04:28

Tgt Ion: 50 Resp: 1874

Ion Ratio Lower Upper

50 100

52 8.5 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

8000

6000

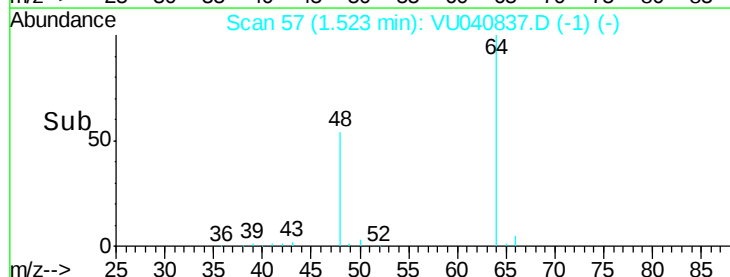
4000

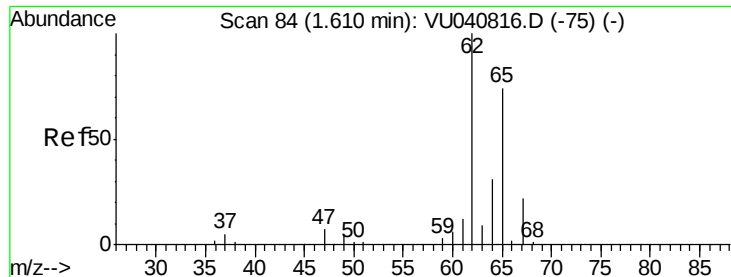
2000

0

1.50 1.52 1.54 1.56

Time-->





#5

Vinyl chloride

Concen: 42.621 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampleId :

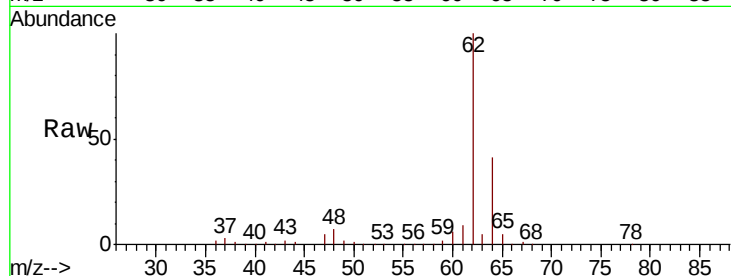
ETZ34

Tot Ion: 62 Resp: 434871

Ion Ratio Lower Upper

62 100

64 40.9 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

400000

300000

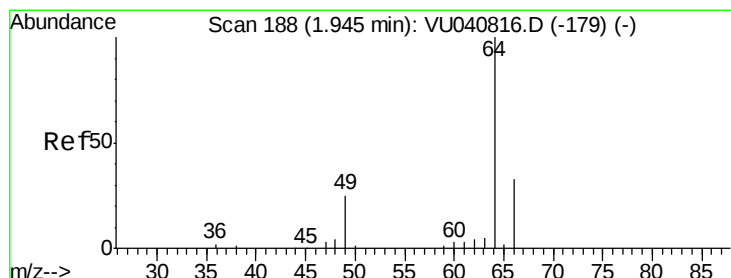
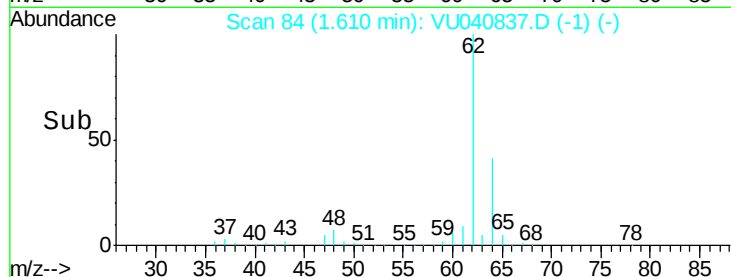
200000

100000

0

Time-->

1.55 1.60 1.65 1.70



#8

Chloroethane

Concen: 0.215 ug/L

RT: 2.12 min Scan# 242

Delta R.T. 0.17 min

Lab File: VU040837.D

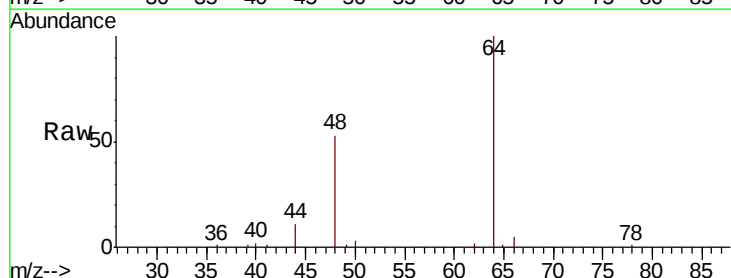
Acq: 20 Oct 2020 04:28

Tgt Ion: 64 Resp: 1398

Ion Ratio Lower Upper

64 100

66 5.2 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

2.12

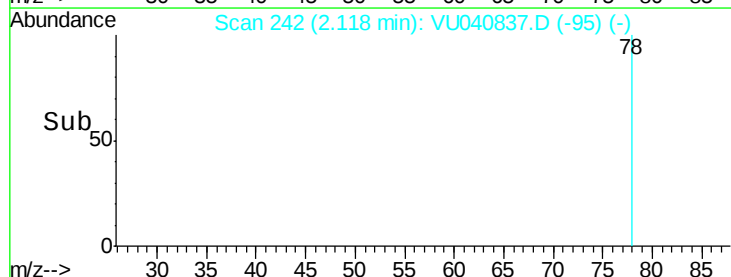
10000

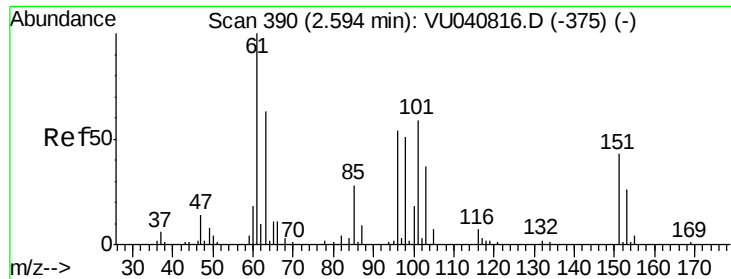
5000

0

Time-->

2.10 2.12 2.14





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.077 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampled :

ETZ34

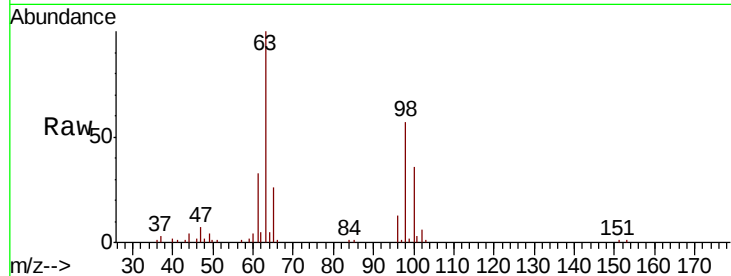
Tot Ion:101 Resp: 735

Ion Ratio Lower Upper

101 100

85 569.5 36.7 55.1#

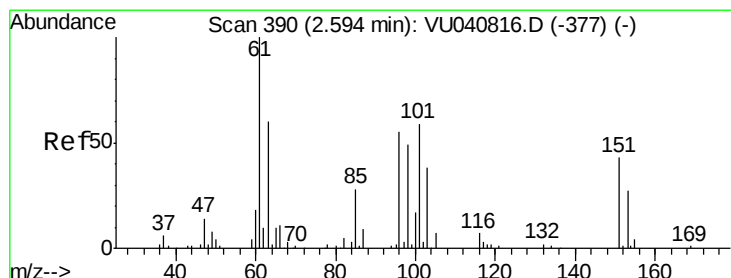
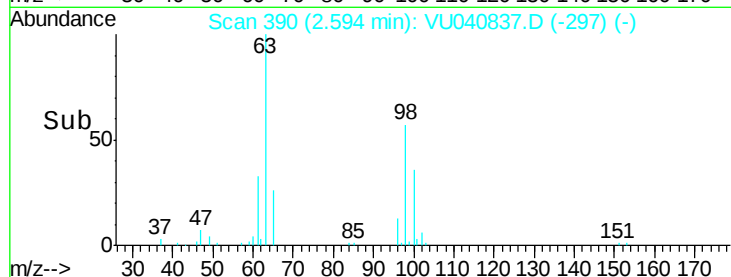
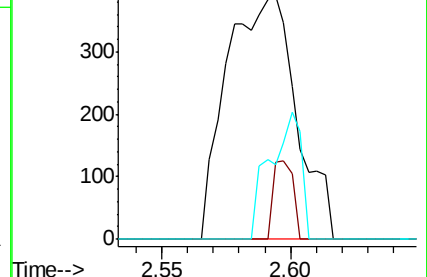
151 23.5 58.0 87.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.316 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

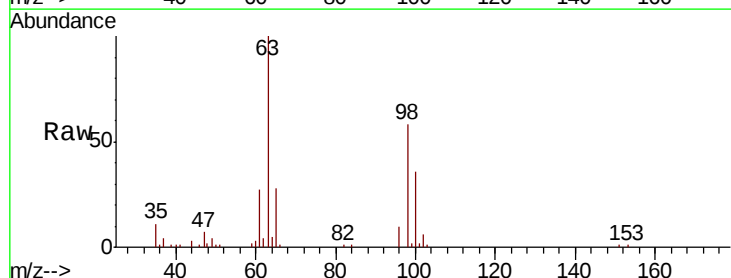
Tgt Ion: 96 Resp: 2582

Ion Ratio Lower Upper

96 100

61 257.7 128.8 239.2#

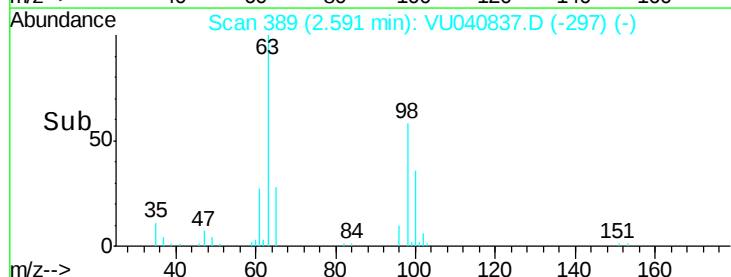
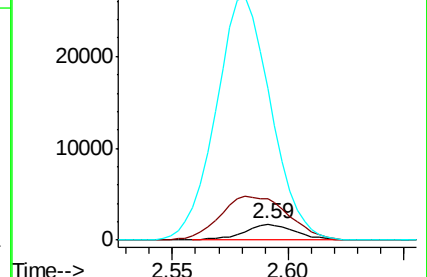
63 954.2 84.6 157.2#

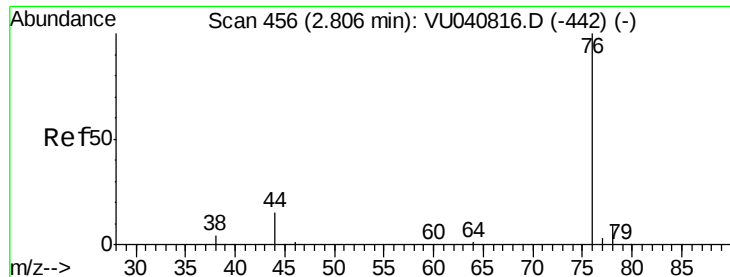


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#14

Carbon disulfide

Concen: 0.061 ug/L

RT: 2.80 min Scan# 455

Delta R.T. -0.00 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampled :

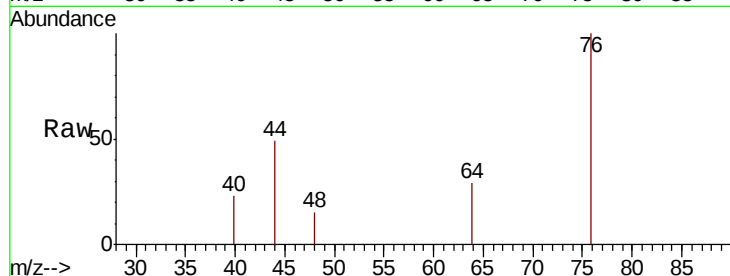
ETZ34

Tot Ion: 76 Resp: 1402

Ion Ratio Lower Upper

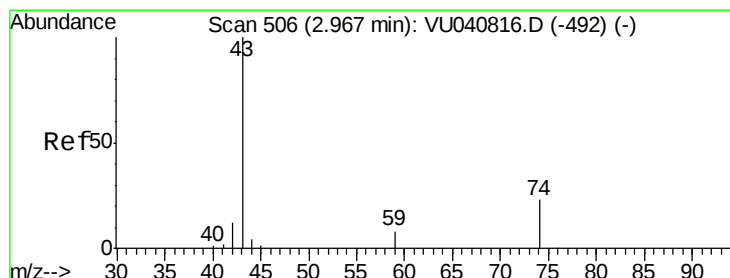
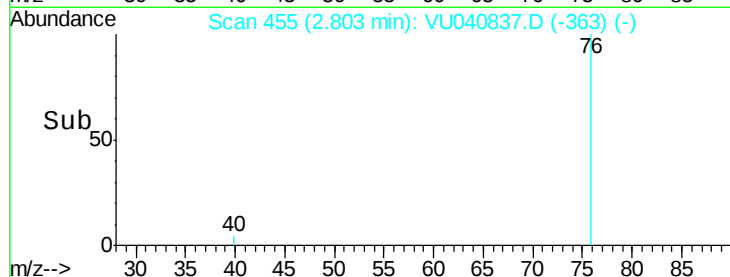
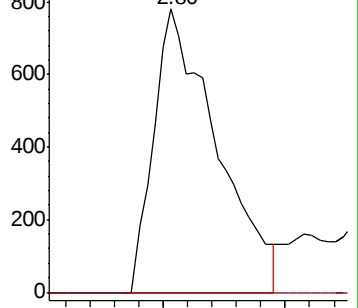
76 100

78 0.0 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0



#15

Methyl Acetate

Concen: 0.190 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.10 min

Lab File: VU040837.D

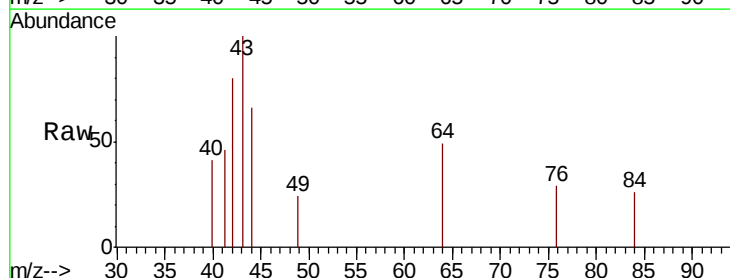
Acq: 20 Oct 2020 04:28

Tgt Ion: 43 Resp: 1019

Ion Ratio Lower Upper

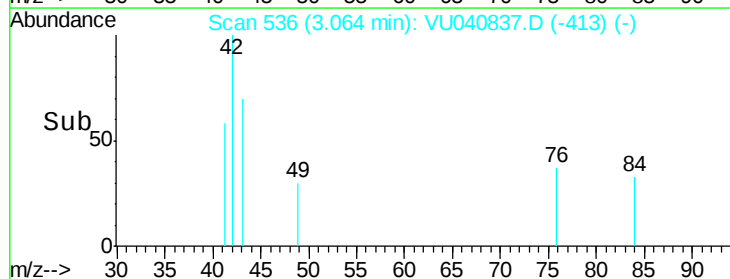
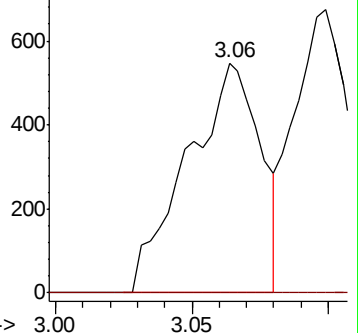
43 100

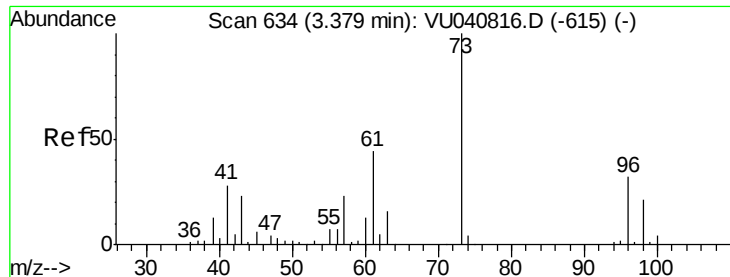
74 0.0 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

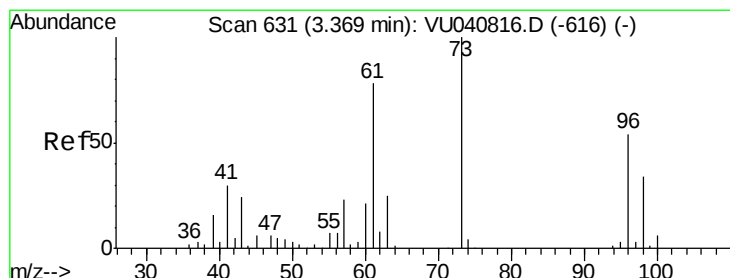
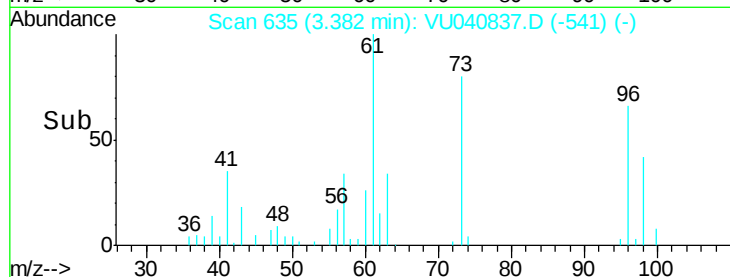
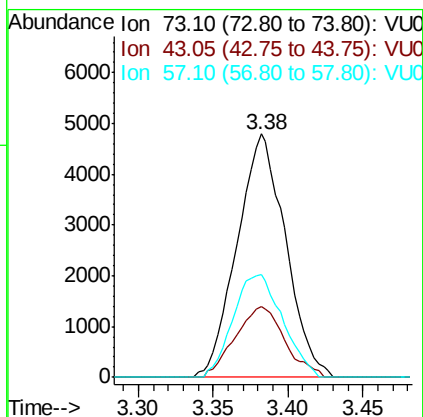
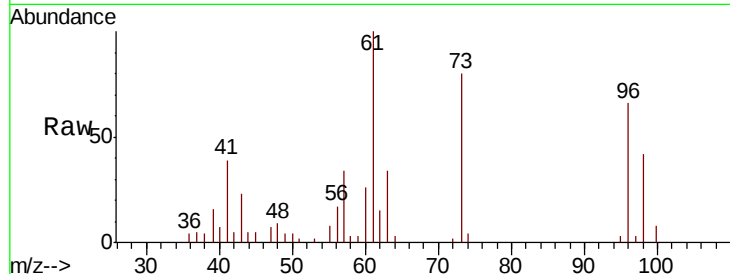




#17
Methvl tert-butvl Ether
Concen: 0.469 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040837.D
Acq: 20 Oct 2020 04:28

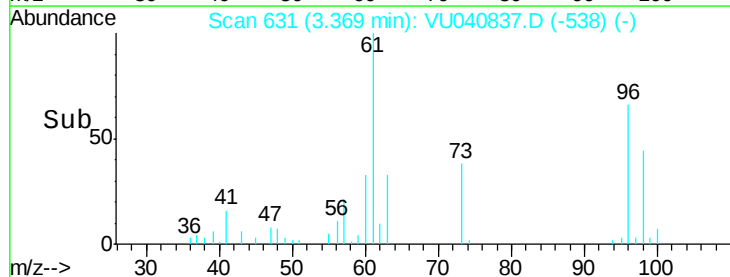
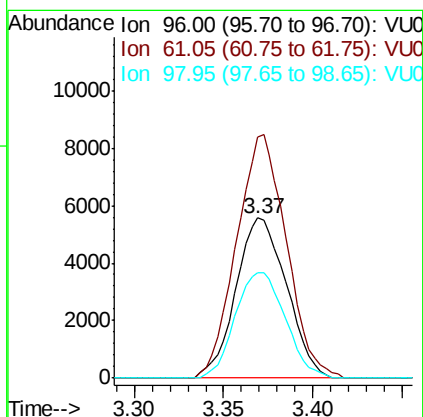
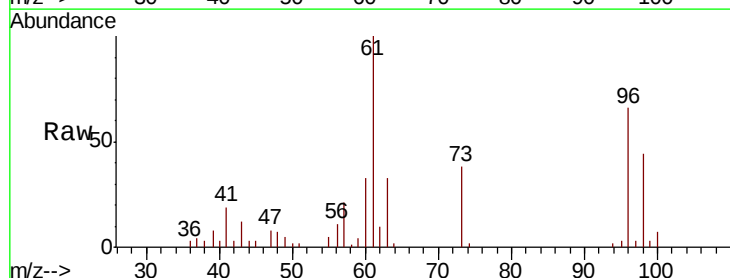
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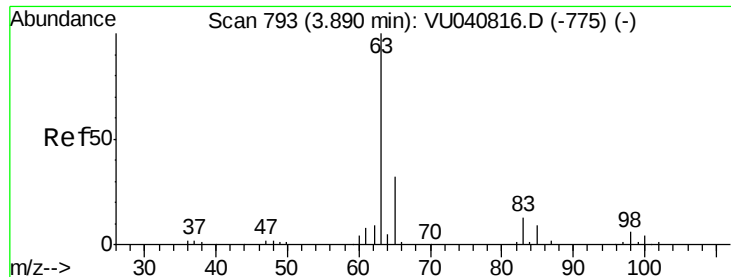
Tot Ion: 73 Resp: 10814
Ion Ratio Lower Upper
73 100
43 29.7 18.2 27.4#
57 43.1 18.6 28.0#



#18
trans-1,2-Dichloroethene
Concen: 1.293 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU040837.D
Acq: 20 Oct 2020 04:28

Tgt Ion: 96 Resp: 11039
Ion Ratio Lower Upper
96 100
61 150.5 105.9 196.7
98 65.9 43.8 81.3

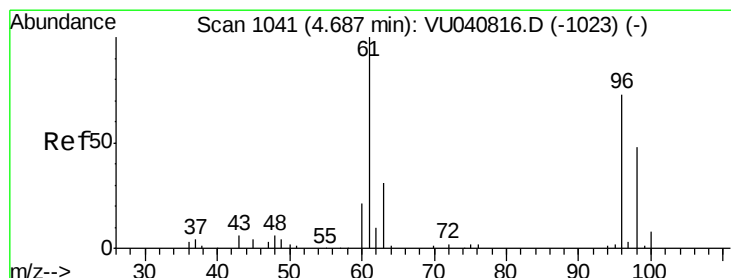
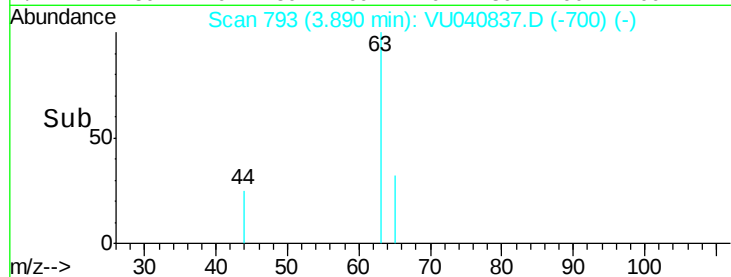
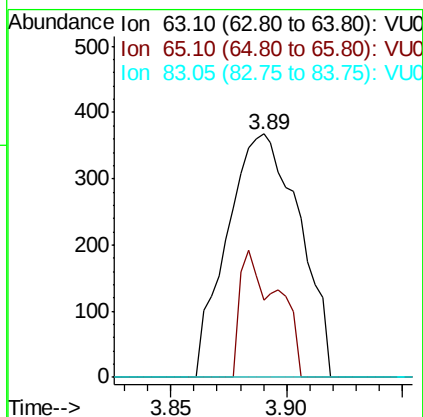
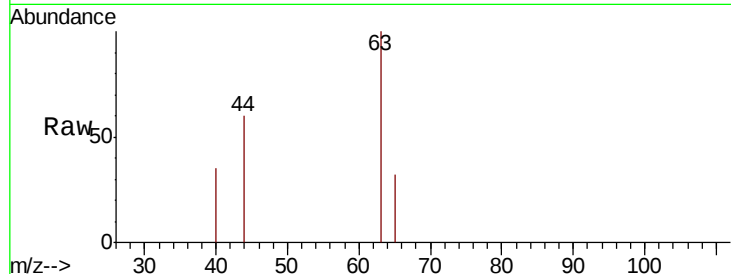




#19
 1,1-Dichloroethane
 Concen: 0.045 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

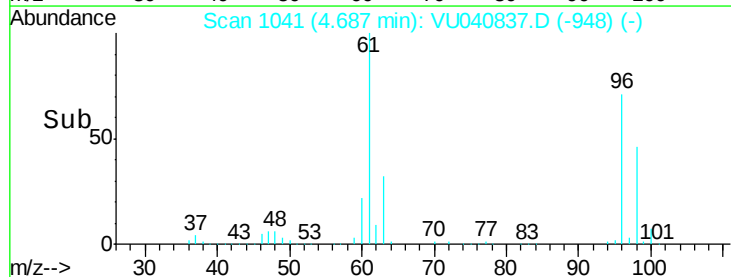
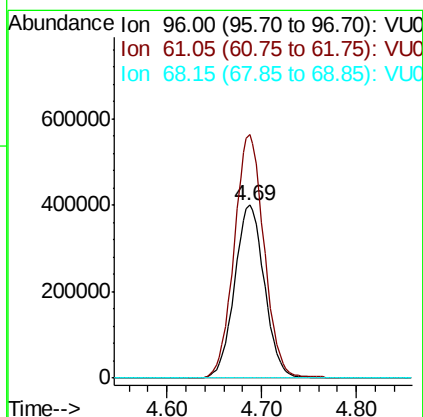
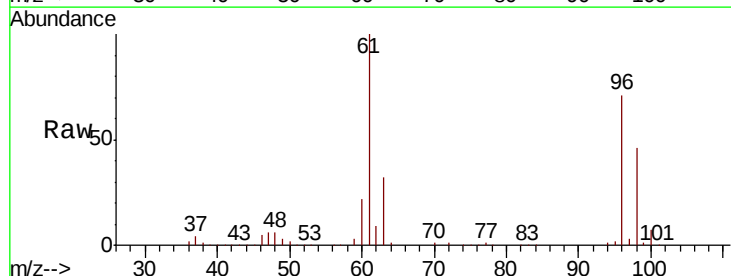
Instrument :
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 ClientSampleId :
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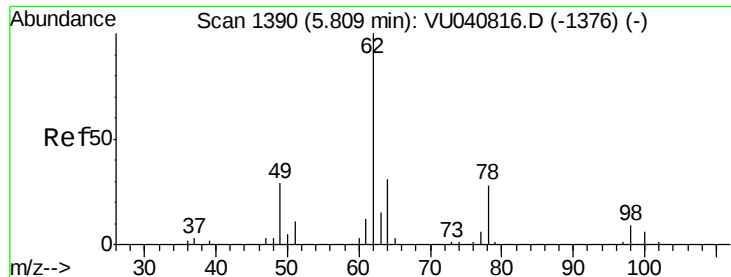
Tot Ion: 63 Resp: 797
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.9 40.7
 83 0.0 9.6 17.8#



#22
 cis-1,2-Dichloroethene
 Concen: 95.660 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

Tgt Ion: 96 Resp: 881027
 Ion Ratio Lower Upper
 96 100
 61 141.0 99.8 185.4
 68 0.0 0.0 0.0

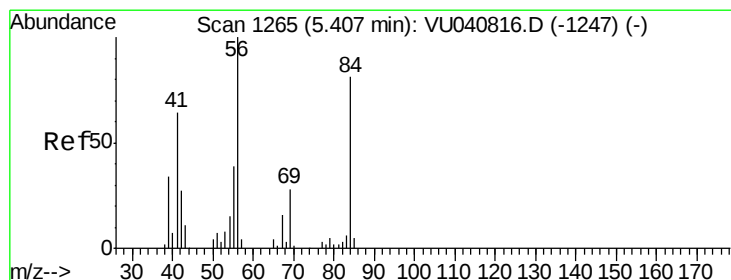
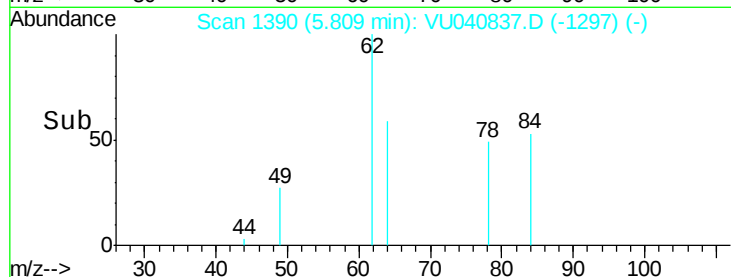
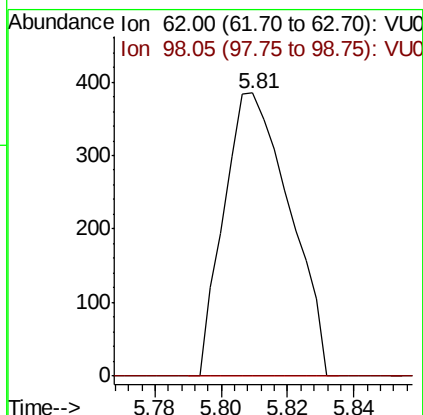
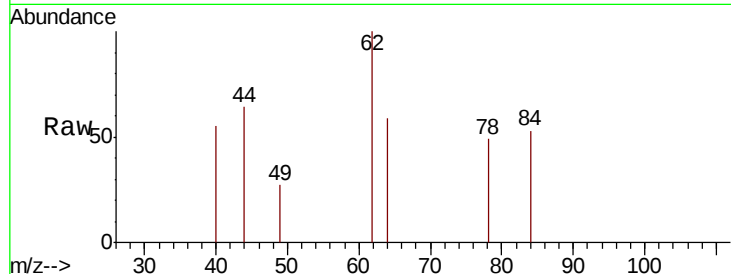




#27
 1,2-Dichloroethane
 Concen: 0.042 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

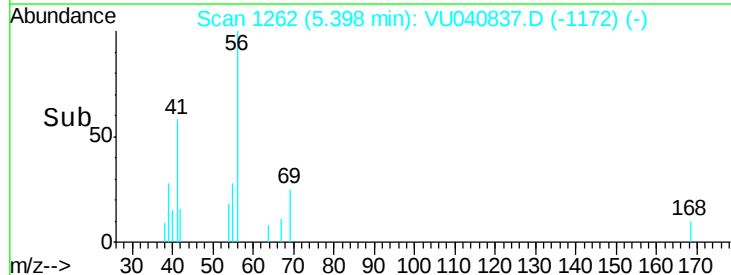
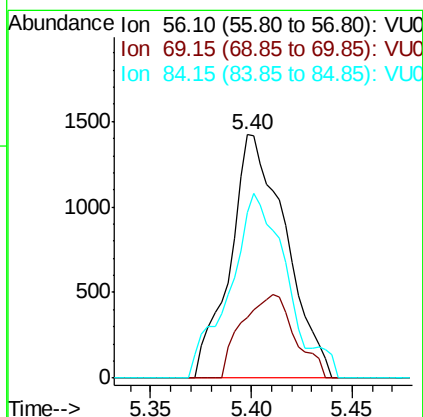
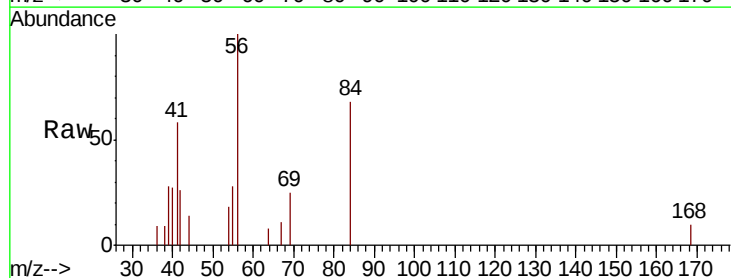
Instrument :
 MSVOA_U
 ClientSampled :
 ETZ34

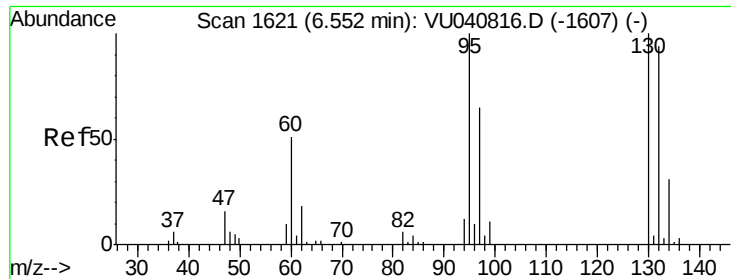
Tot Ion: 62 Resp: 531
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#30
 Cyclohexane
 Concen: 0.191 ug/L
 RT: 5.40 min Scan# 1262
 Delta R.T. -0.01 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

Tgt Ion: 56 Resp: 2743
 Ion Ratio Lower Upper
 56 100
 69 32.5 23.8 35.8
 84 78.1 64.0 96.0

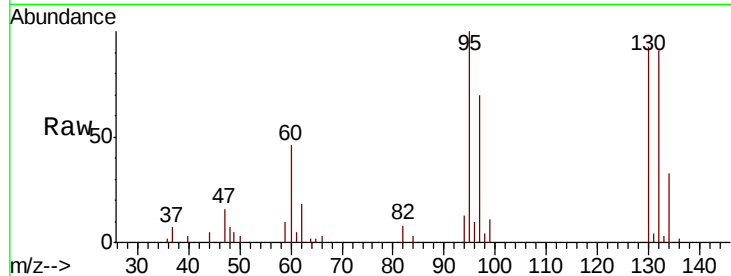




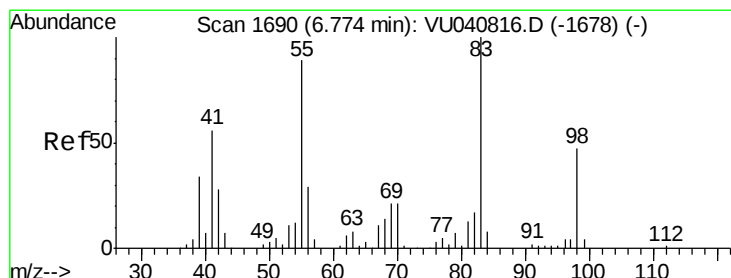
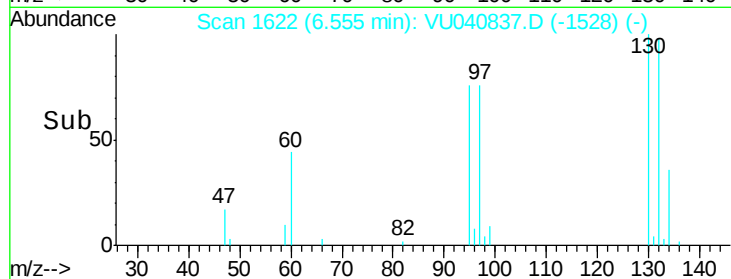
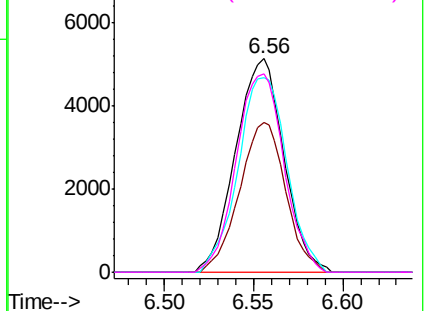
#34
 Trichloroethene
 Concen: 1.003 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ34

Tot Ion: 95 Resp: 9715
 Ion Ratio Lower Upper
 95 100
 97 70.4 45.5 84.5
 132 91.3 67.5 125.4
 130 92.8 69.9 129.9

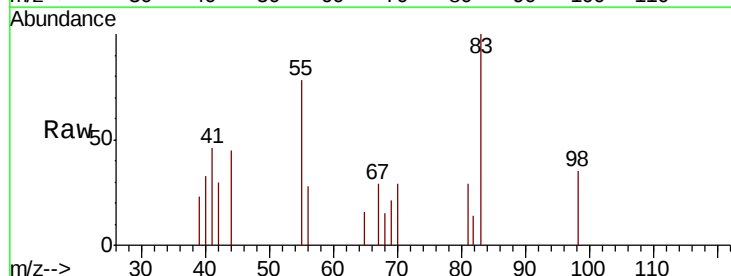


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

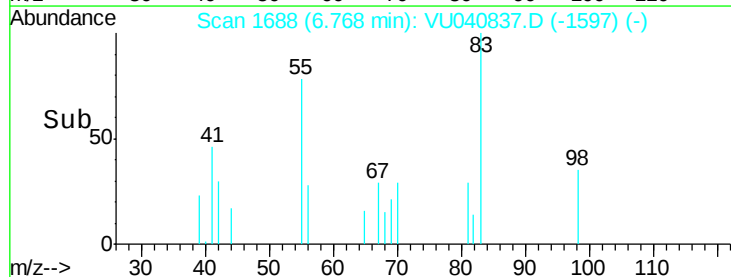
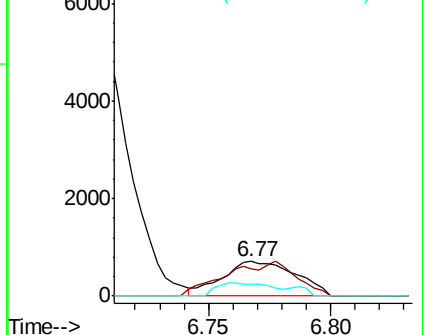


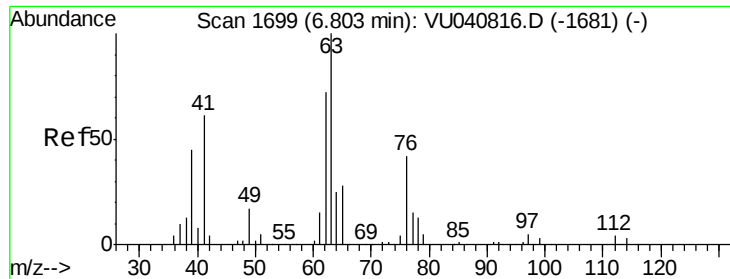
#35
 Methylcyclohexane
 Concen: 0.108 ug/L
 RT: 6.77 min Scan# 1688
 Delta R.T. -0.01 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

Tgt Ion: 83 Resp: 1480
 Ion Ratio Lower Upper
 83 100
 55 52.1 70.7 106.1#
 98 28.5 38.4 57.6#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

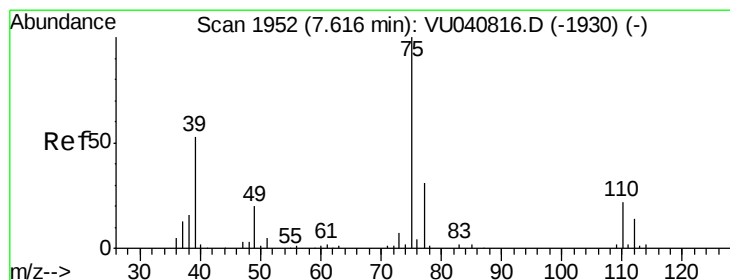
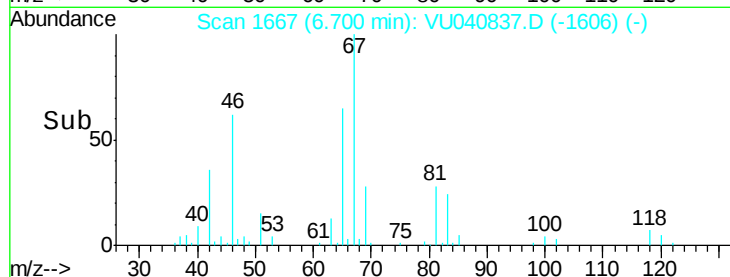
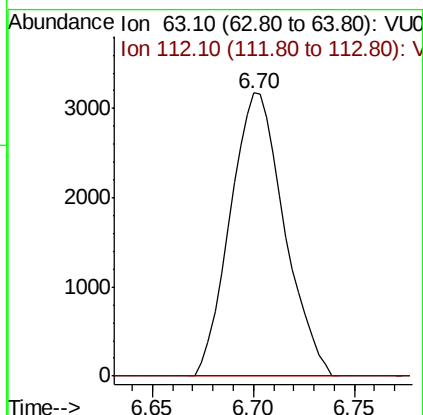
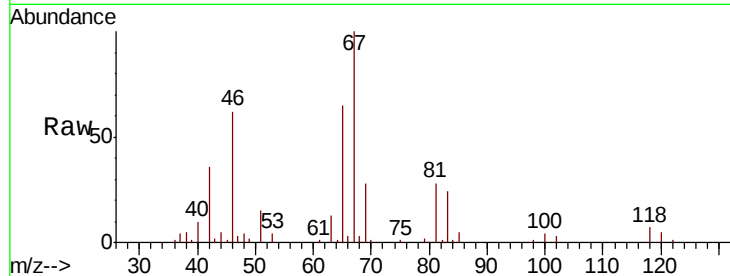




#37
 1,2-Dichloropropane
 Concen: 0.570 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

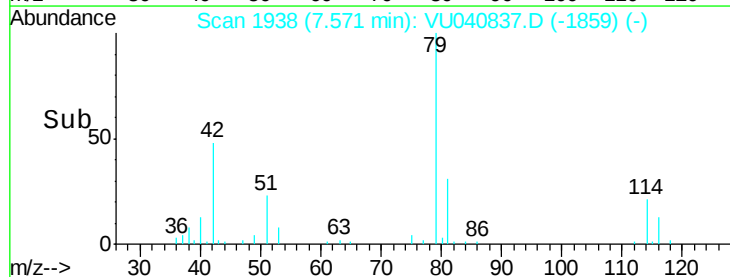
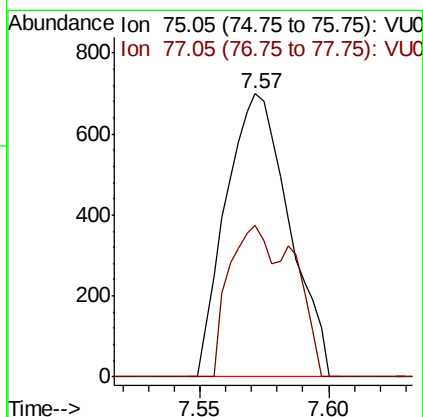
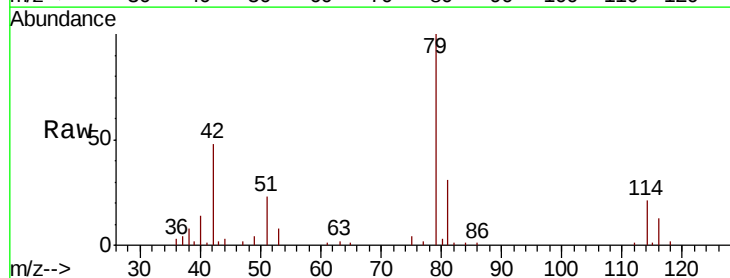
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ34

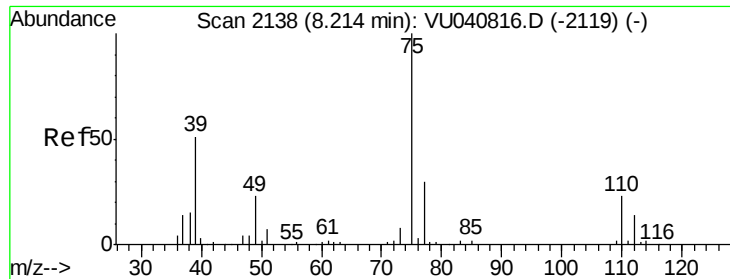
Tot Ion: 63 Resp: 5933
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040837.D
 Acq: 20 Oct 2020 04:28

Tgt Ion: 75 Resp: 1192
 Ion Ratio Lower Upper
 75 100
 77 53.6 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.051 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampled :

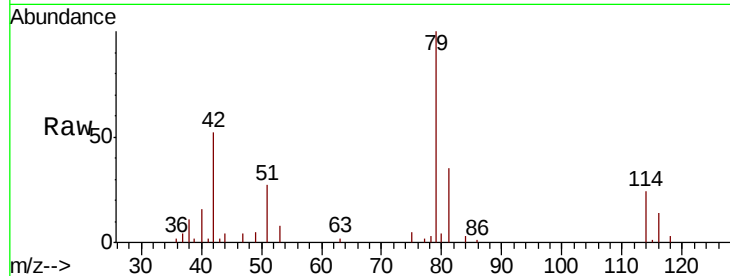
ETZ34

Tot Ion: 75 Resp: 674

Ion Ratio Lower Upper

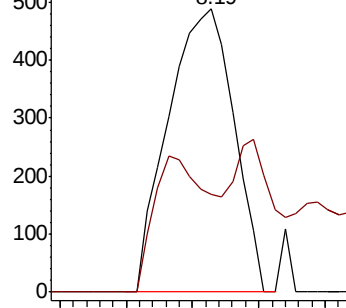
75 100

77 34.6 20.4 38.0

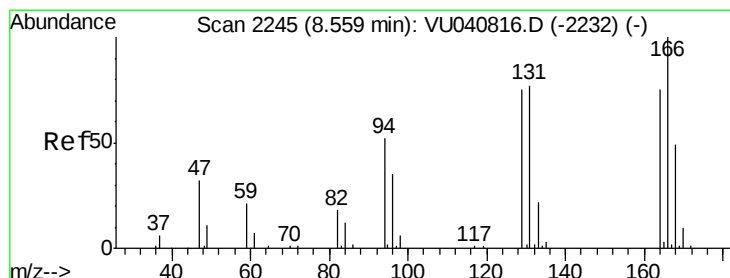
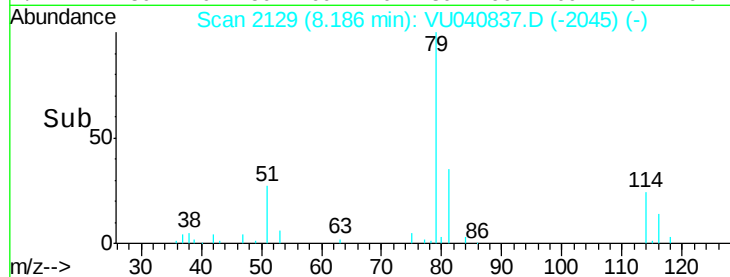


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



Time--> 8.14 8.16 8.18 8.20 8.22



#47

Tetrachloroethene

Concen: 0.072 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.01 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Tgt Ion:164 Resp: 500

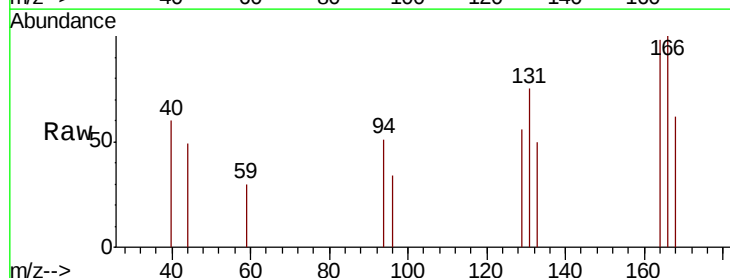
Ion Ratio Lower Upper

164 100

129 57.3 68.8 127.8#

131 76.6 66.7 123.9

166 101.7 83.9 155.7

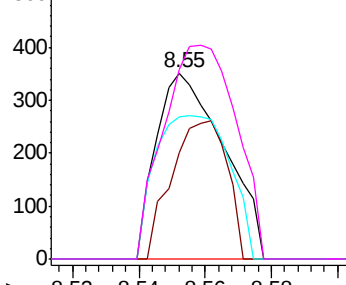


Abundance Ion 163.90 (163.60 to 164.60): V

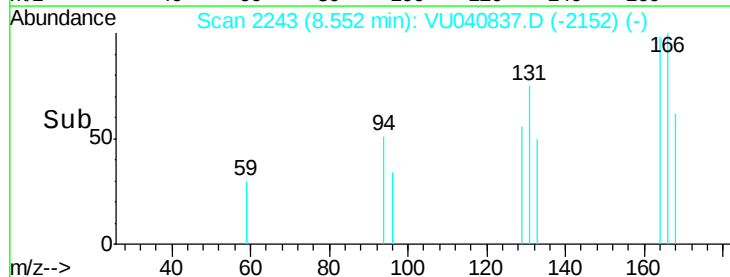
Ion 128.95 (128.65 to 129.65): V

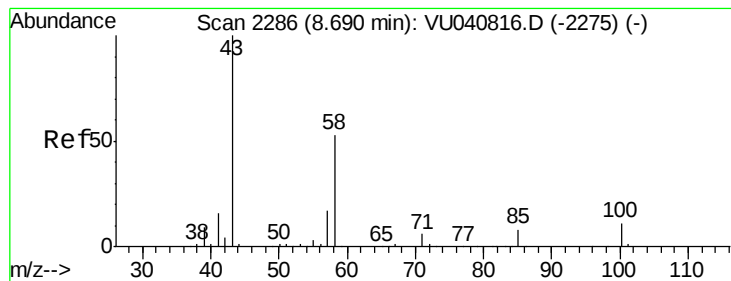
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



Time--> 8.52 8.54 8.56 8.58





#48

2-Hexanone

Concen: 2.620 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampleId :

ETZ34

Tot Ion: 43 Resp: 16187

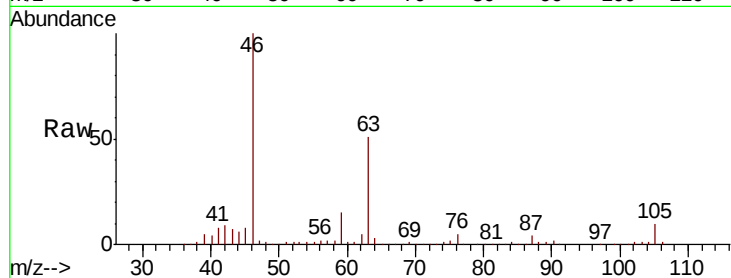
Ion Ratio Lower Upper

43 100

58 36.0 41.0 61.6#

57 32.4 14.4 21.6#

100 1.8 8.6 13.0#

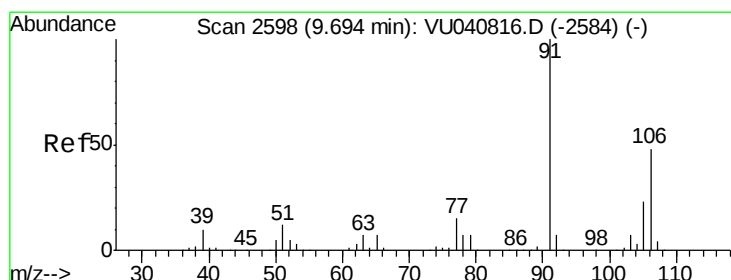
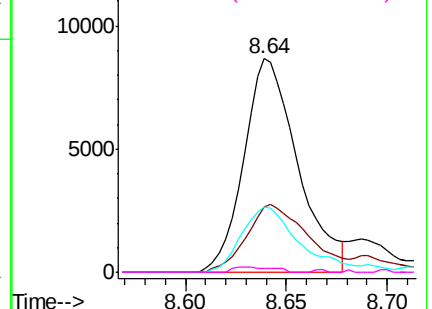
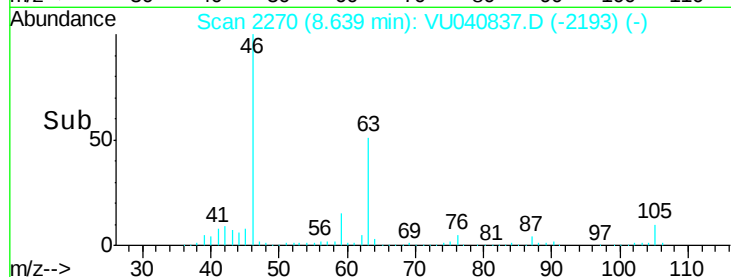


Abundance Ion 43.05 (42.75 to 43.75): VU040837.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU040837.D (-2193) (-)

Ion 57.20 (56.90 to 57.90): VU040837.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU040837.D (-2193) (-)



#53

m,p-Xylene

Concen: 0.135 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040837.D

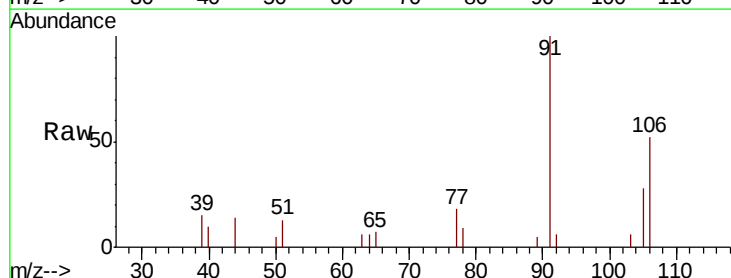
Acq: 20 Oct 2020 04:28

Tgt Ion: 106 Resp: 2032

Ion Ratio Lower Upper

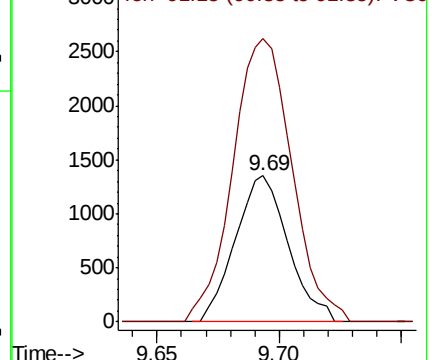
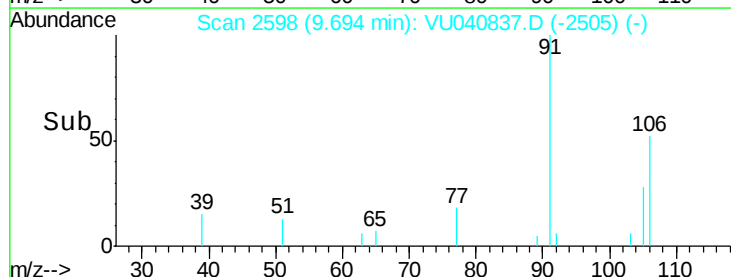
106 100

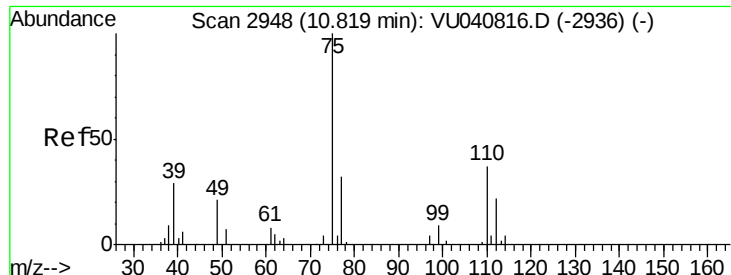
91 193.9 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040837.D (-2505) (-)

Ion 91.15 (90.85 to 91.85): VU040837.D (-2505) (-)





#59

1,2,3-Trichloropropane

Concen: 0.879 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040837.D

Acq: 20 Oct 2020 04:28

Instrument :

MSVOA_U

ClientSampleId :

ETZ34

Tot Ion: 75 Resp: 6721

Ion Ratio Lower Upper

75 100

77 36.9 26.4 39.6

