

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111020\
 Data File : VU041183.D
 Acq On : 10 Nov 2020 17:37
 Operator : SY/MD
 Sample : L4673-17
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VHBLK01

Quant Time: Nov 11 00:53:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 11 00:43:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	54865	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	56441	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	25280	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	20964	4.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.00%
7) Chloroethane-d5	1.92	69	17145	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.58	63	31563	3.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.80%
20) 2-Butanone-d5	4.65	46	73625	48.51	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.02%
24) Chloroform-d	5.08	84	41320	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.72	65	27440	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.60%
32) Benzene-d6	5.74	84	74018	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.70	67	24422	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.91	98	64051	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
43) trans-1,3-Dichloropropene-	8.19	79	10367	4.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.40%
46) 2-Hexanone-d5	8.64	63	52076	45.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.80%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	21392	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	25453	5.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.80%

Target Compounds

					Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	196	0.048 ug/L #	22
12) 1,1-Dichloroethene	2.58	96	215	0.055 ug/L #	1
16) Methylene chloride	3.06	84	637	0.141 ug/L	90
25) Chloroform	5.11	83	1050	0.133 ug/L	100
27) 1,2-Dichloroethane	5.75	62	464	0.079 ug/L #	74
34) Trichloroethene	6.55	95	391	0.091 ug/L	85
35) Methylcyclohexane	6.70	83	6162	0.963 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	2926	0.641 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	840	0.134 ug/L	96
44) trans-1,3-Dichloropropene	8.19	75	508	0.086 ug/L	86
48) 2-Hexanone	8.69	43	1763	0.644 ug/L #	77
59) 1,2,3-Trichloropropane	11.81	75	3477	1.022 ug/L	90
63) 1,4-Dichlorobenzene	11.83	146	378	0.050 ug/L #	64
67) 1,3,5-Trichlorobenzene	13.21	180	313	0.061 ug/L #	64
68) 1,2,4-trichlorobenzene	13.83	180	634	0.150 ug/L #	76
69) Naphthalene	14.07	128	1563	0.207 ug/L #	77
70) 1,2,3-Trichlorobenzene	14.32	180	628	0.161 ug/L #	84

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QLast Update : Wed Nov 11 00:43:53 2020
Response via : Initial Calibration

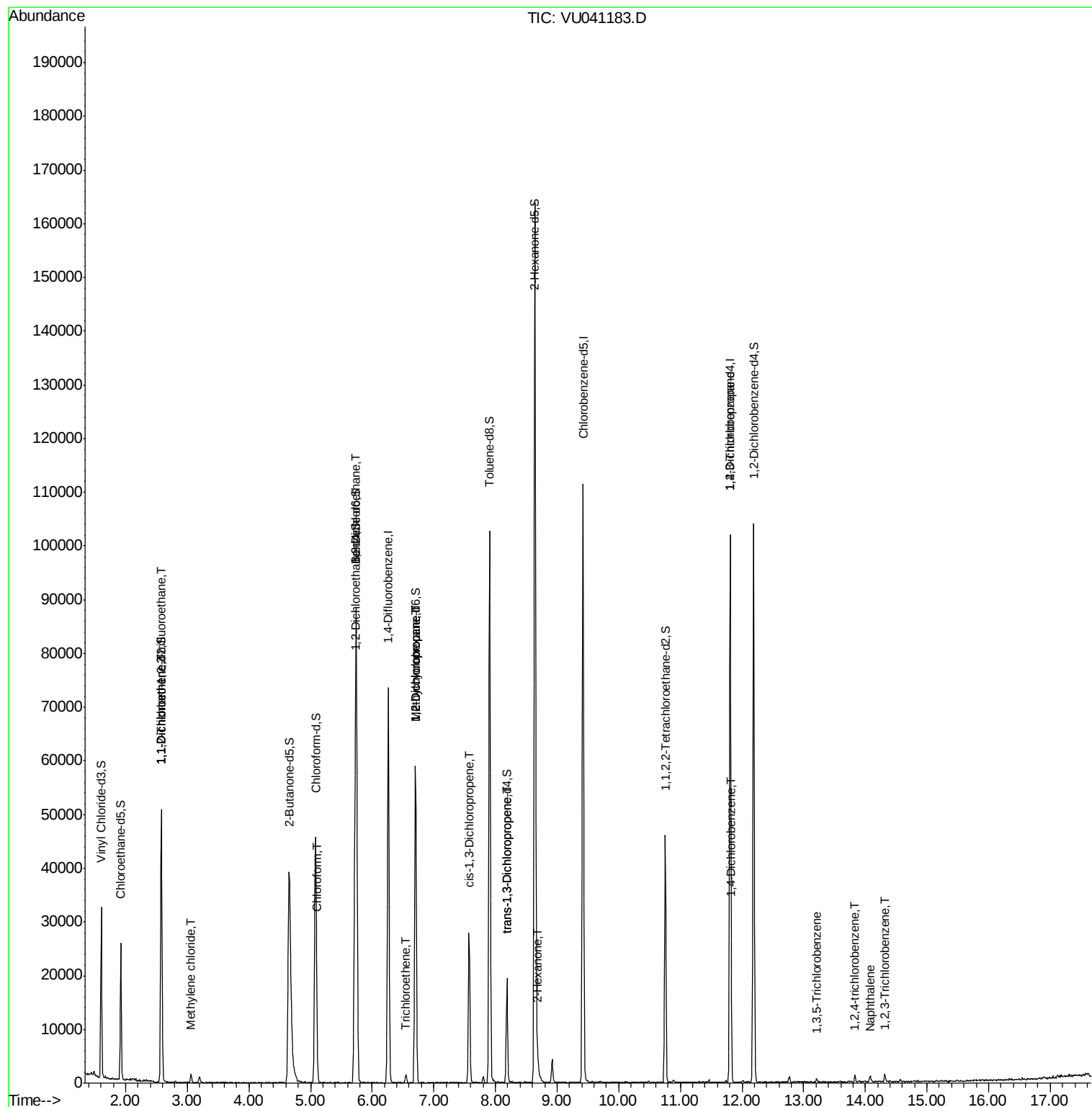
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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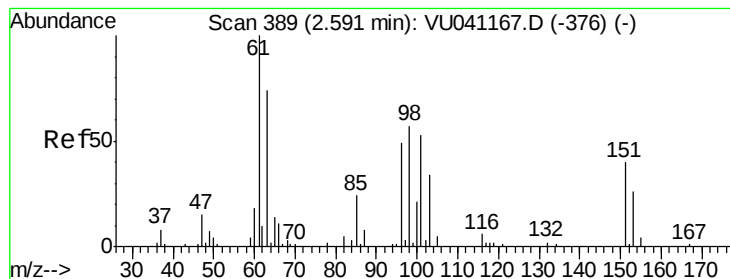
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.048 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Instrument :

MSVOA_U

ClientSampleId :

VHBLK01

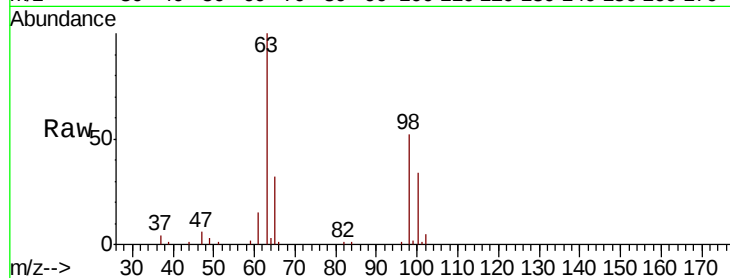
Tot Ion:101 Resp: 196

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

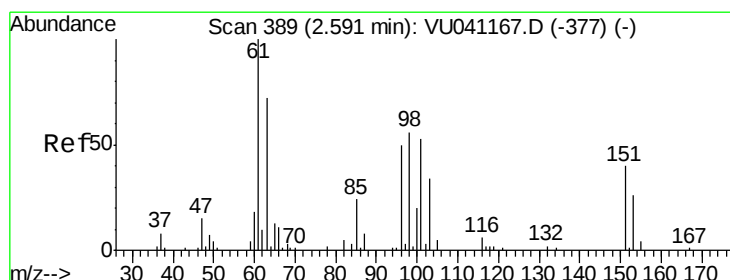
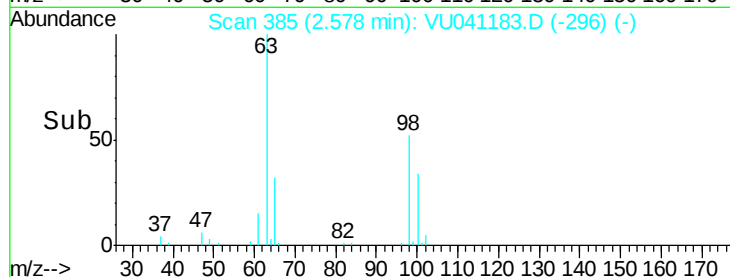
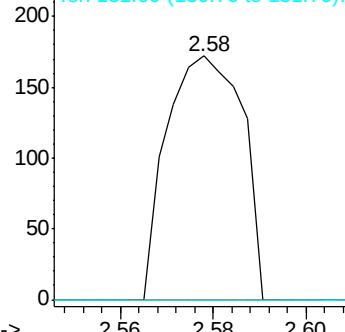
151 0.0 55.3 82.9#



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: 0.055 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

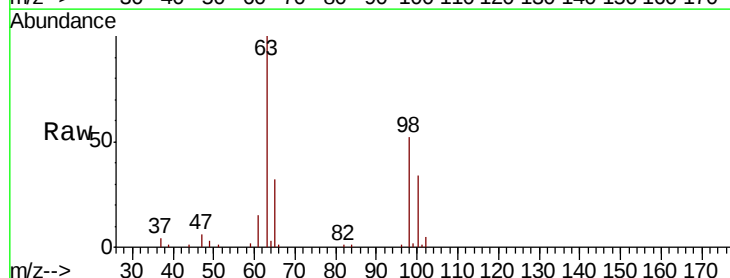
Tgt Ion: 96 Resp: 215

Ion Ratio Lower Upper

96 100

61 1339.7 134.3 249.5#

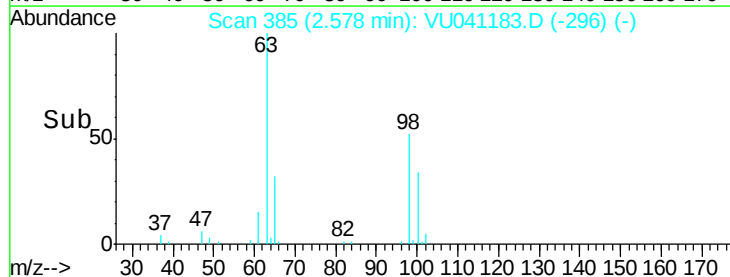
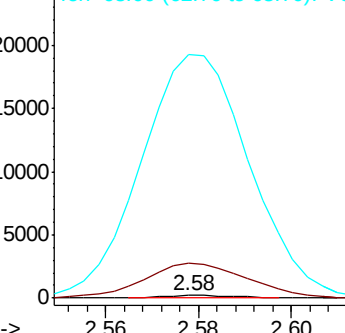
63 9217.2 95.0 176.4#

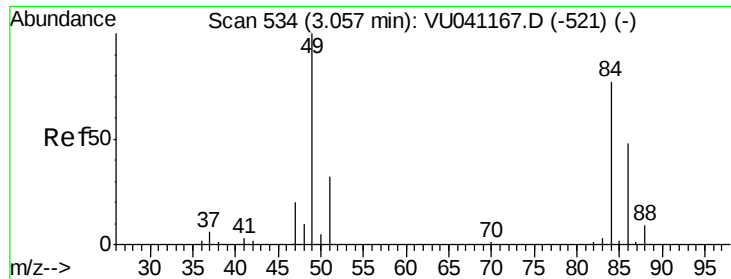


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

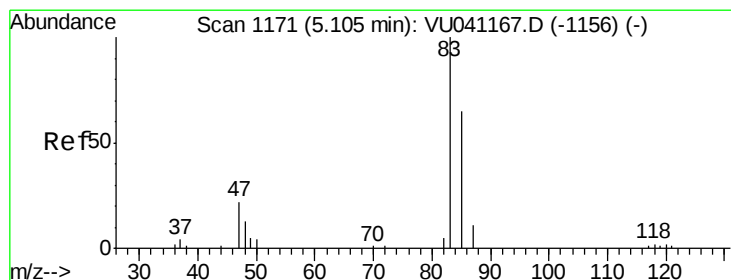
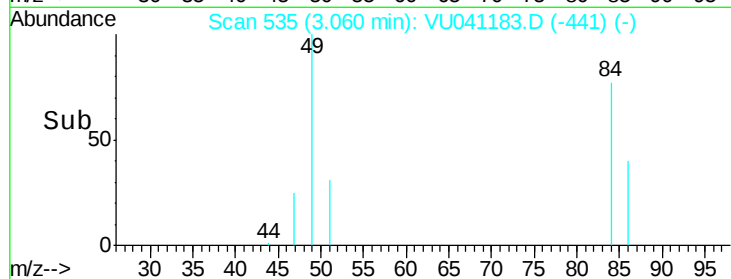
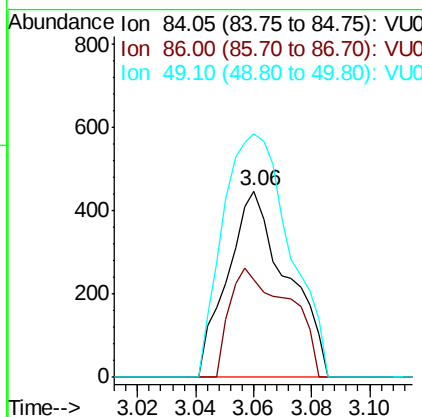
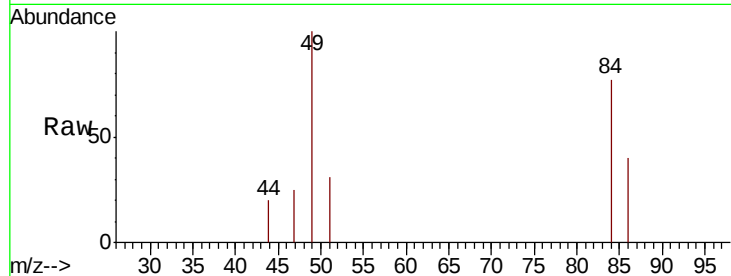




#16
Methylene chloride
Concen: 0.141 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041183.D
Acq: 10 Nov 2020 17:37

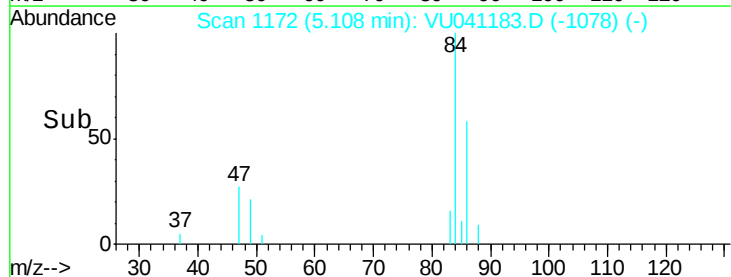
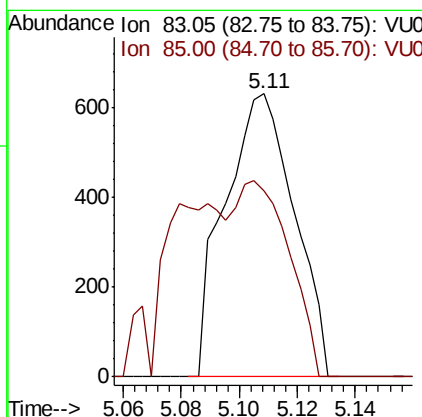
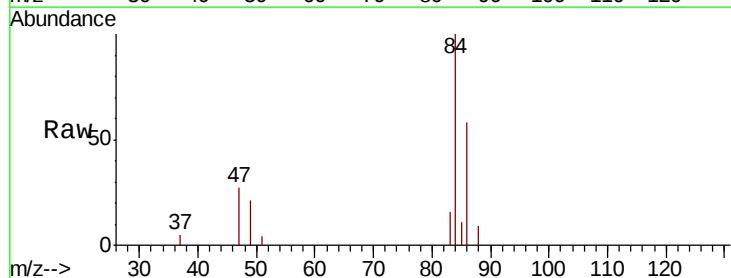
Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

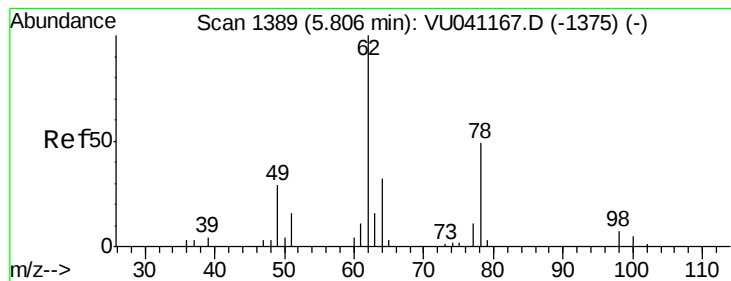
Tot Ion: 84 Resp: 637
Ion Ratio Lower Upper
84 100
86 52.1 42.8 79.6
49 130.6 99.5 184.7



#25
Chloroform
Concen: 0.133 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU041183.D
Acq: 10 Nov 2020 17:37

Tgt Ion: 83 Resp: 1050
Ion Ratio Lower Upper
83 100
85 65.9 46.1 85.7





#27

1,2-Dichloroethane

Concen: 0.079 ug/L

RT: 5.75 min Scan# 1371

Delta R.T. -0.06 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Instrument :

MSVOA_U

ClientSampleId :

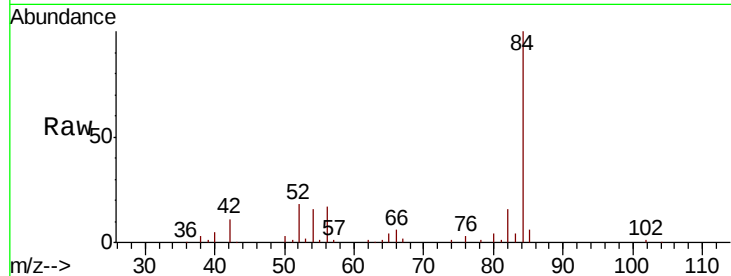
VHBLK01

Tot Ion: 62 Resp: 464

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

5.75

250

200

150

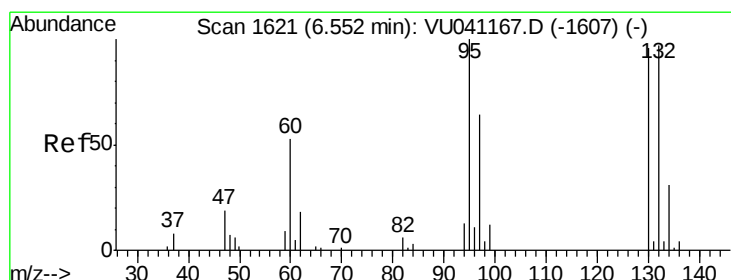
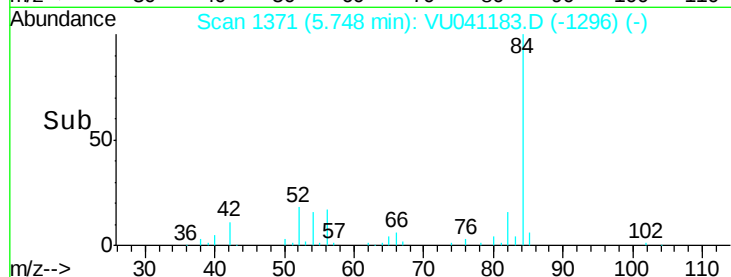
100

50

0

5.70 5.72 5.74 5.76 5.78

Time-->



#34

Trichloroethene

Concen: 0.091 ug/L

RT: 6.55 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Tgt Ion: 95 Resp: 391

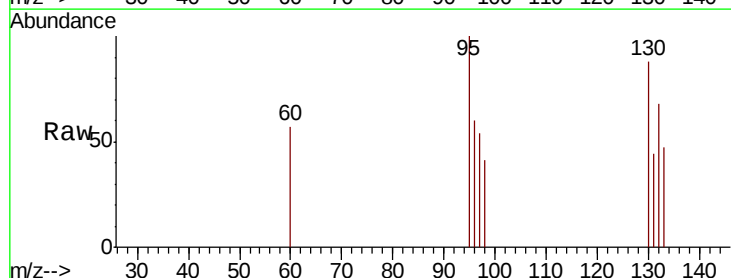
Ion Ratio Lower Upper

95 100

97 53.9 45.6 84.6

132 68.0 64.8 120.4

130 88.4 64.8 120.4



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): VU0

Ion 129.95 (129.65 to 130.65): VU0

400

300

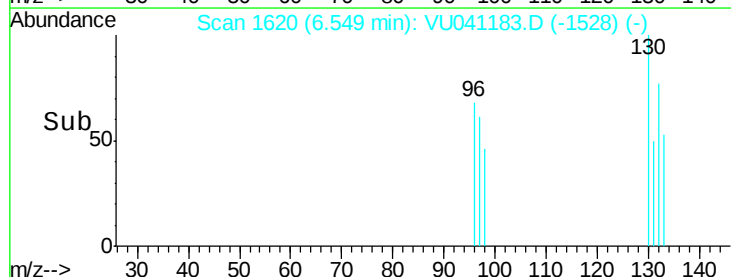
200

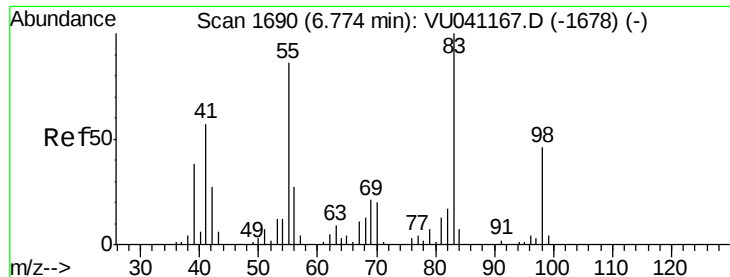
100

0

6.52 6.54 6.56 6.58

Time-->

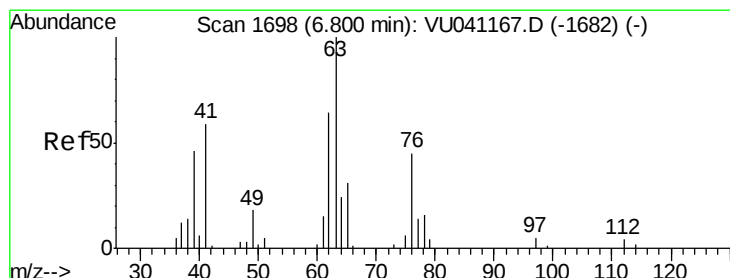
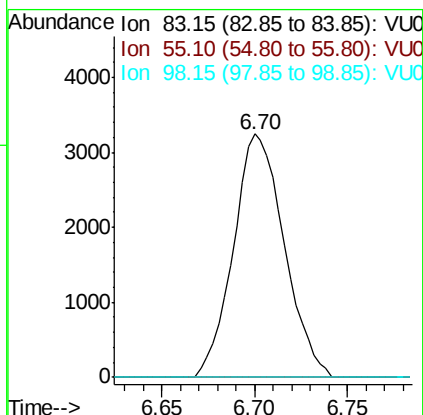
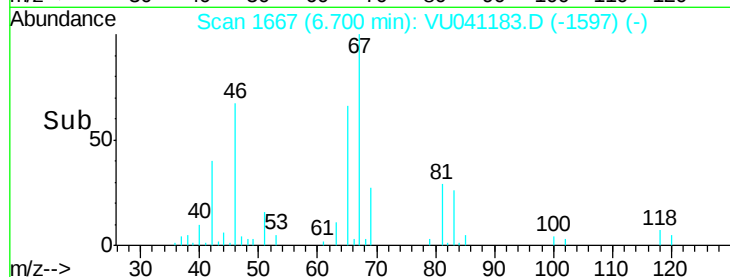
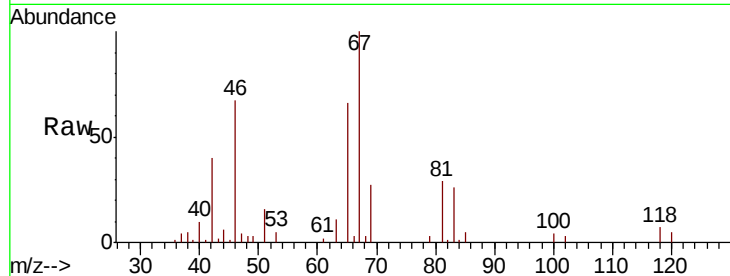




#35
Methvlcvclohexane
Concen: 0.963 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041183.D
Acq: 10 Nov 2020 17:37

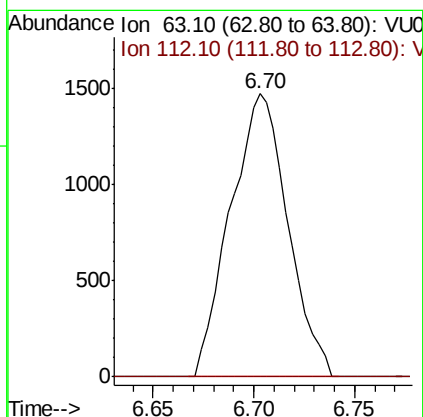
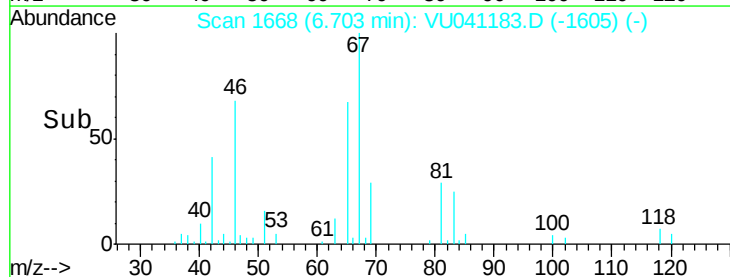
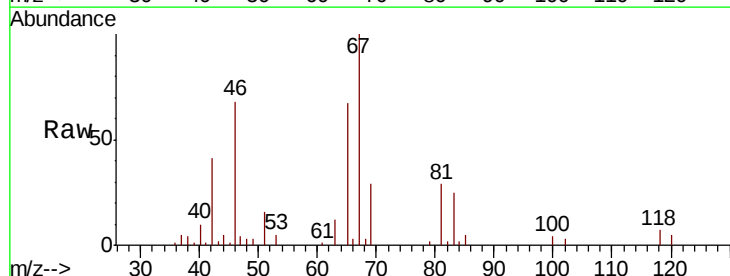
Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

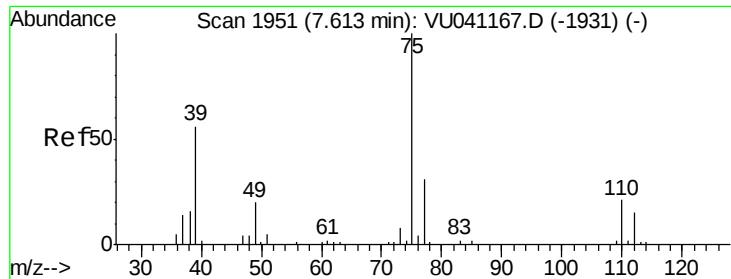
Tot Ion: 83 Resp: 6162
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 2.6 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.641 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041183.D
Acq: 10 Nov 2020 17:37

Tgt Ion: 63 Resp: 2926
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#

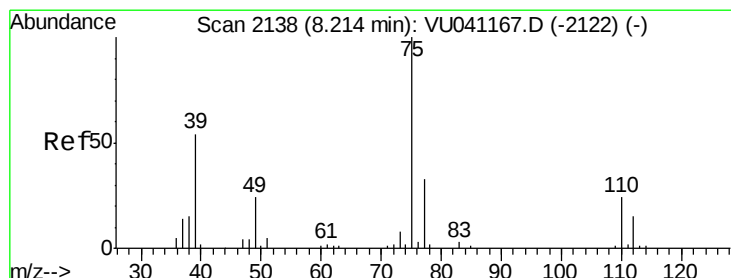
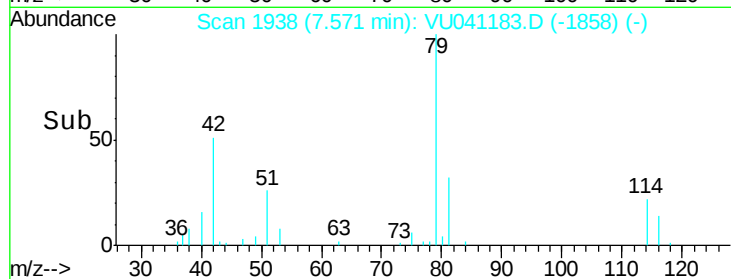
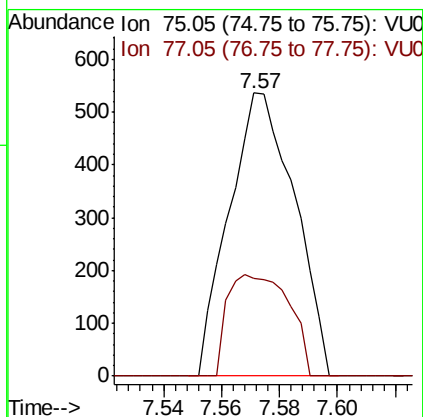
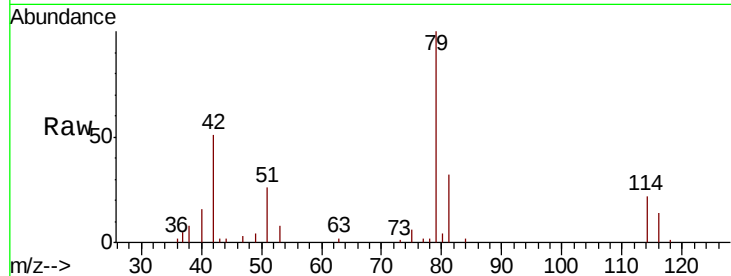




#39
 cis-1,3-Dichloropropene
 Concen: 0.134 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041183.D
 Acq: 10 Nov 2020 17:37

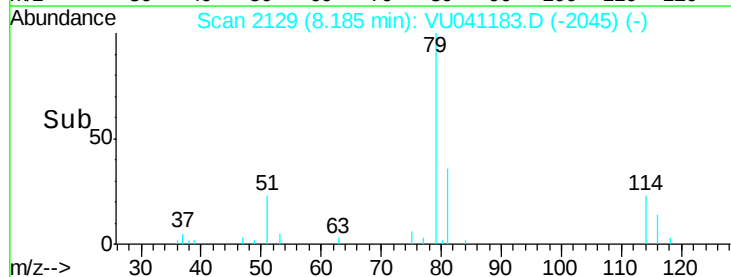
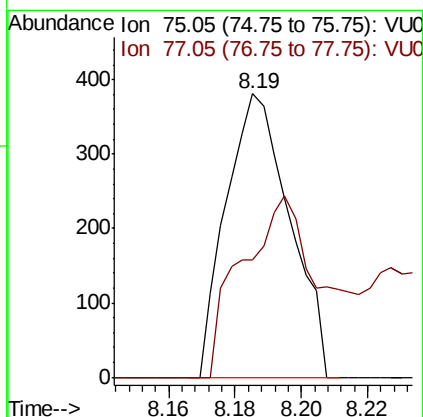
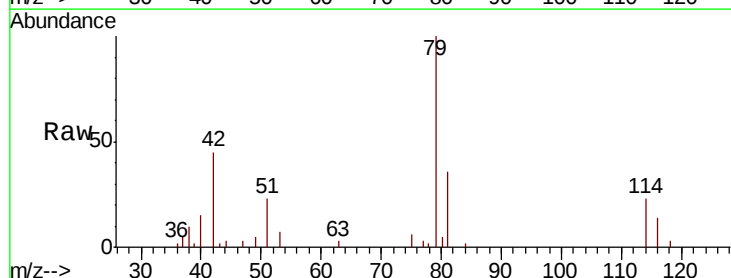
Instrument :
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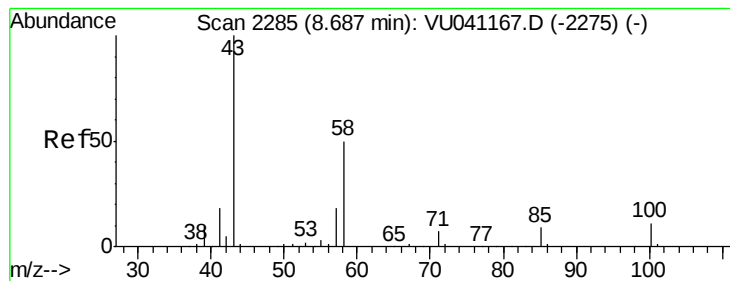
Tot Ion: 75 Resp: 840
 Ion Ratio Lower Upper
 75 100
 77 34.5 22.7 42.3



#44
 trans-1,3-Dichloropropene
 Concen: 0.086 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU041183.D
 Acq: 10 Nov 2020 17:37

Tgt Ion: 75 Resp: 508
 Ion Ratio Lower Upper
 75 100
 77 41.2 23.3 43.3





#48

2-Hexanone

Concen: 0.644 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Instrument :

MSVOA_U

ClientSampleId :

VHBLK01

Tot Ion: 43 Resp: 1763

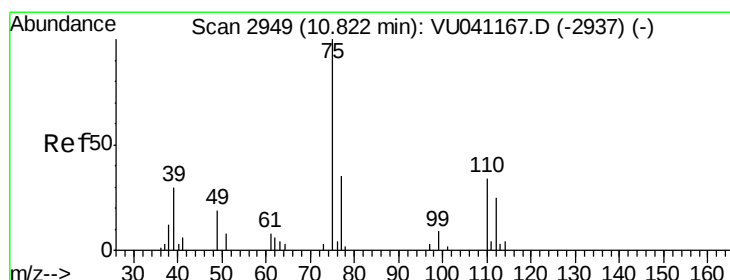
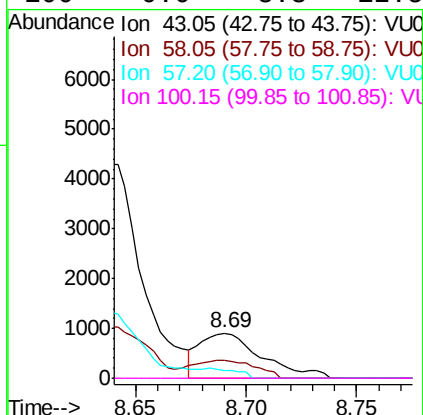
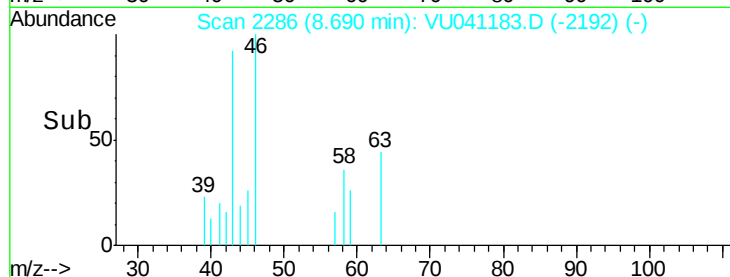
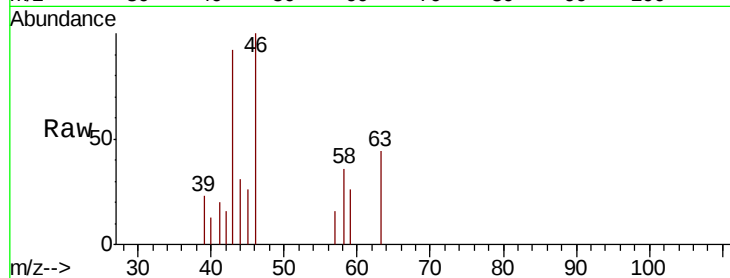
Ion Ratio Lower Upper

43 100

58 41.2 41.4 62.2#

57 0.0 14.6 21.8#

100 0.0 8.3 12.5#



#59

1,2,3-Trichloropropane

Concen: 1.022 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041183.D

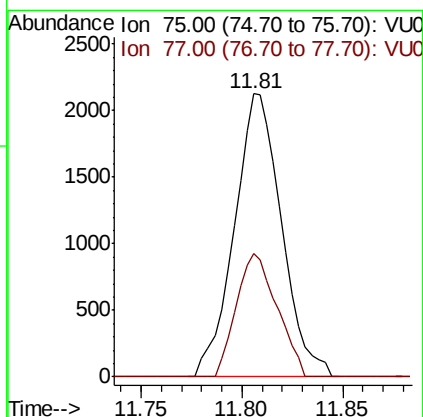
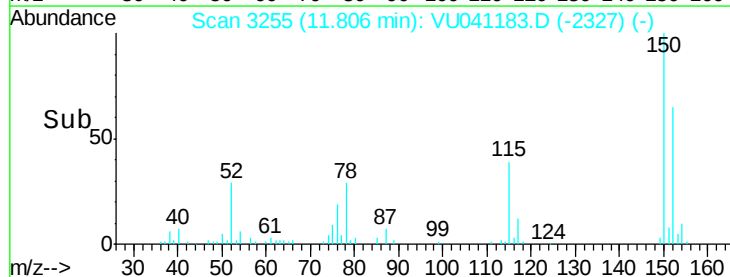
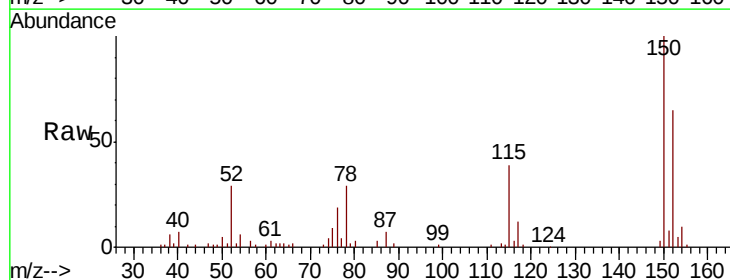
Acq: 10 Nov 2020 17:37

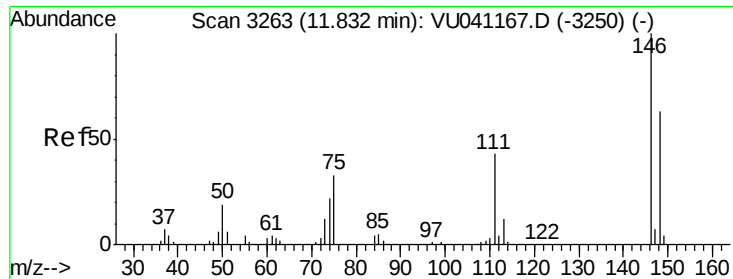
Tgt Ion: 75 Resp: 3477

Ion Ratio Lower Upper

75 100

77 37.8 25.7 38.5





#63

1,4-Dichlorobenzene

Concen: 0.050 ug/L

RT: 11.83 min Scan# 3264

Delta R.T. 0.00 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Instrument :

MSVOA_U

ClientSampled :

VHBLK01

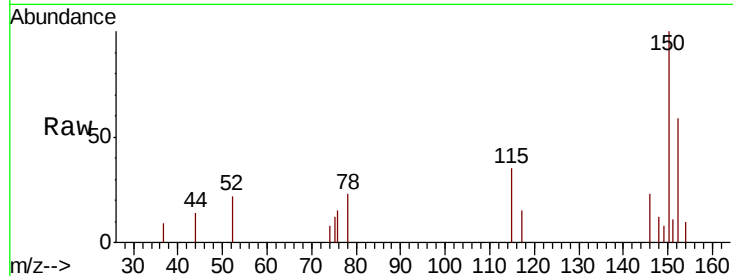
Tot Ion:146 Resp: 378

Ion Ratio Lower Upper

146 100

111 0.0 28.3 52.7#

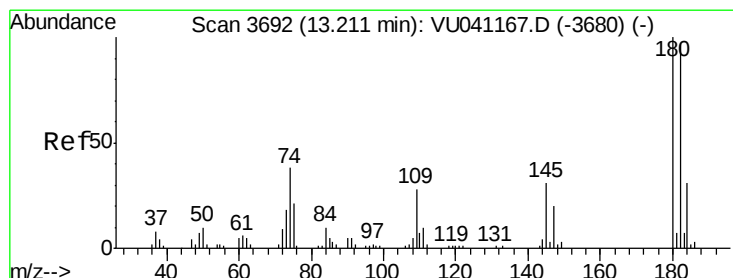
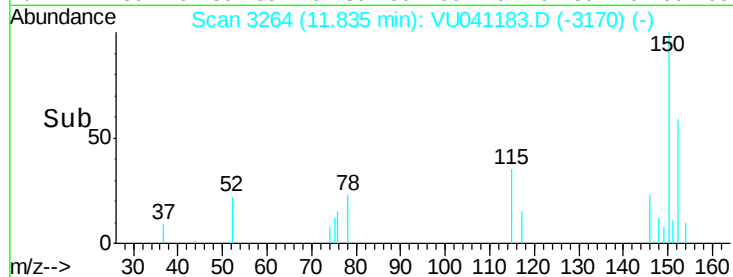
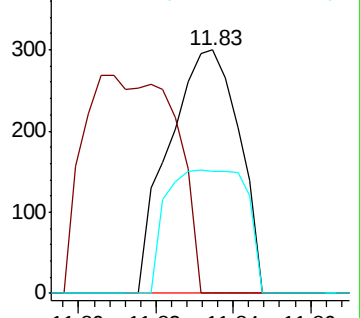
148 50.0 44.2 82.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.061 ug/L

RT: 13.21 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Tgt Ion:180 Resp: 313

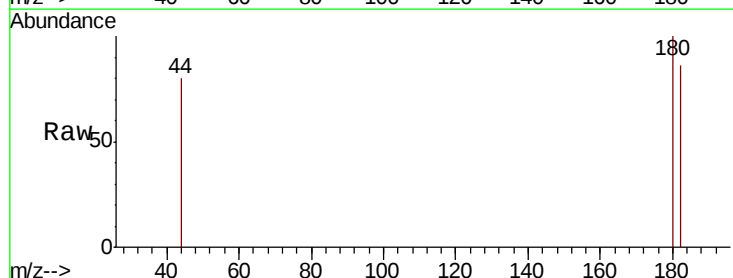
Ion Ratio Lower Upper

180 100

182 119.5 75.7 113.5#

184 0.0 23.7 35.5#

145 6.4 26.1 39.1#

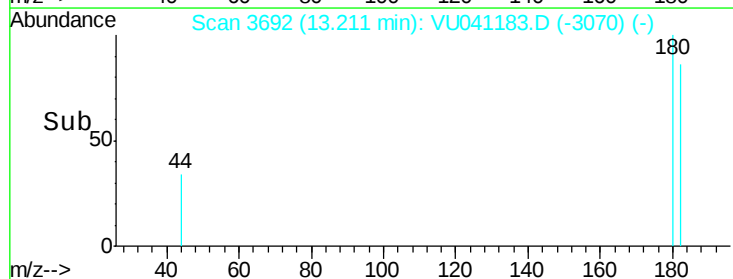
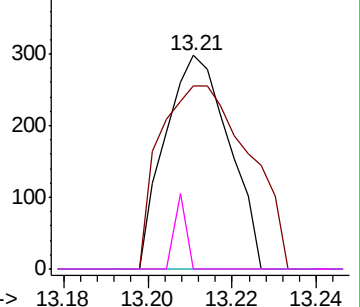


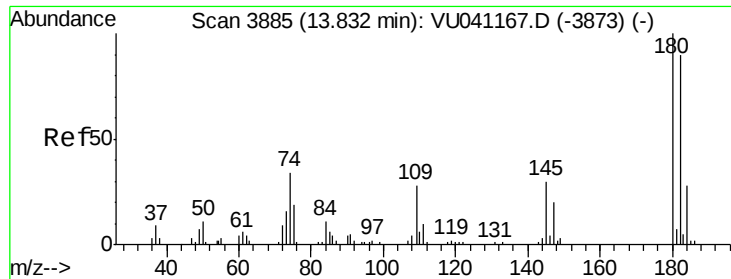
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

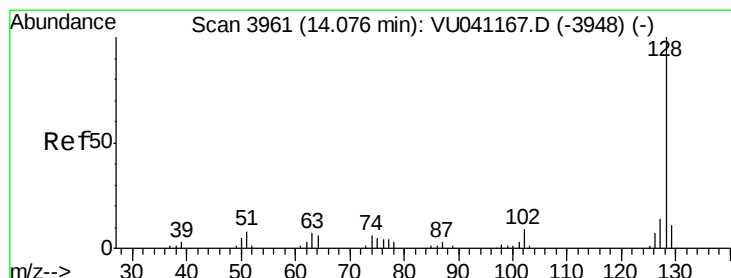
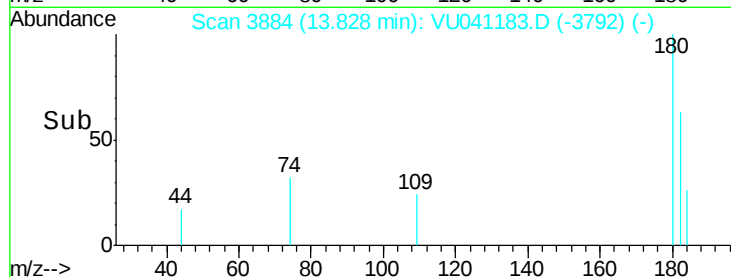
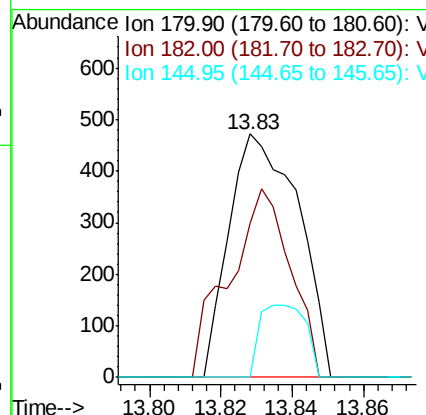
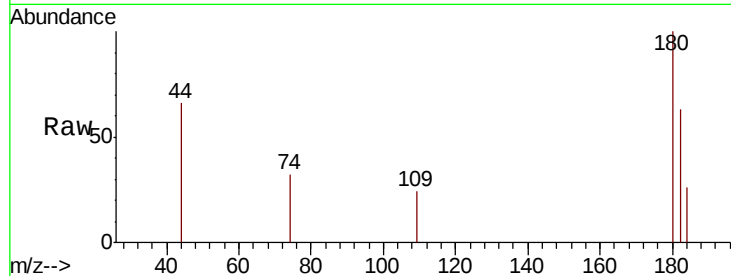




#68
 1,2,4-trichlorobenzene
 Concen: 0.150 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU041183.D
 Acq: 10 Nov 2020 17:37

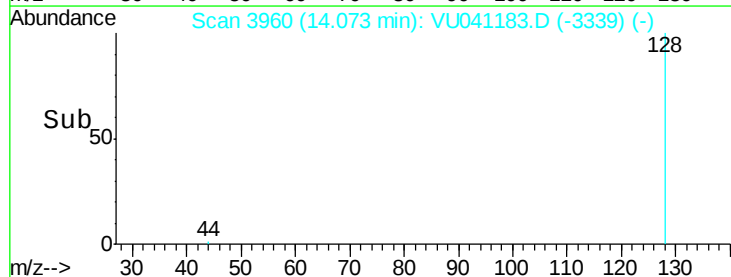
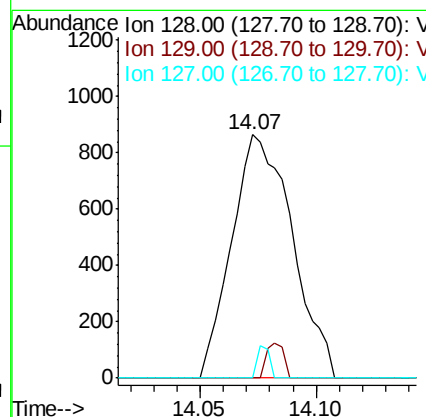
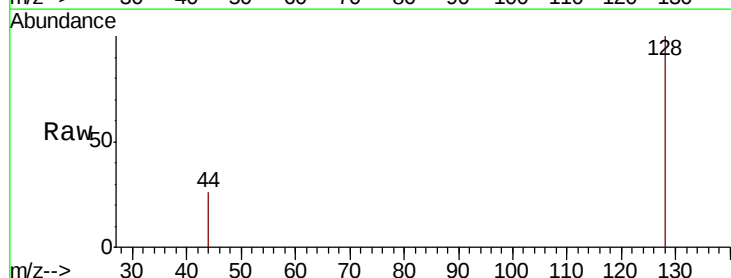
Instrument :
 MSVOA_U
 ClientSampleId :
 VHBLK01

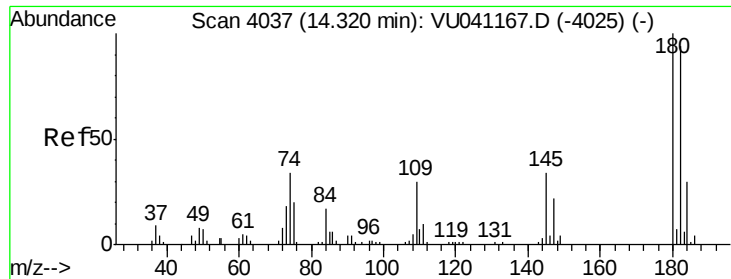
Tot Ion:180 Resp: 634
 Ion Ratio Lower Upper
 180 100
 182 68.6 73.5 110.3#
 145 19.7 26.6 40.0#



#69
 Naphthalene
 Concen: 0.207 ug/L
 RT: 14.07 min Scan# 3960
 Delta R.T. -0.00 min
 Lab File: VU041183.D
 Acq: 10 Nov 2020 17:37

Tgt Ion:128 Resp: 1563
 Ion Ratio Lower Upper
 128 100
 129 4.2 8.7 13.1#
 127 2.7 10.8 16.2#





#70

1,2,3-Trichlorobenzene

Concen: 0.161 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU041183.D

Acq: 10 Nov 2020 17:37

Instrument :

MSVOA_U

ClientSampleId :

VHBLK01

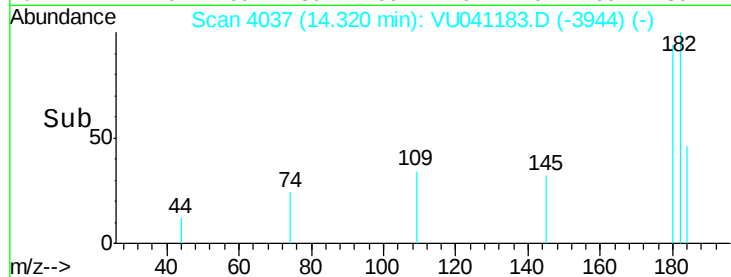
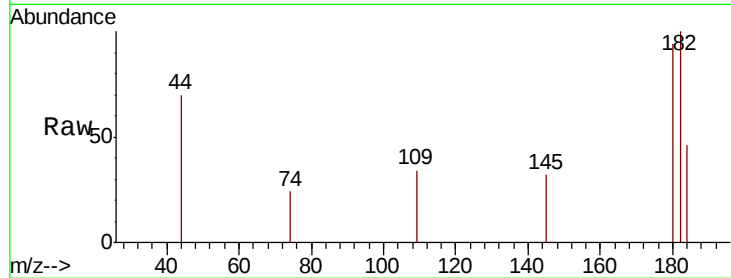
Tot Ion:180 Resp: 628

Ion Ratio Lower Upper

180 100

182 91.1 77.7 116.5

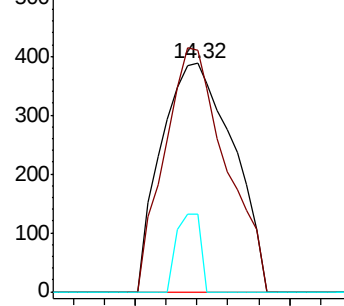
145 11.3 29.4 44.0#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V



Time-->