

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110620\
 Data File : VU041121.D
 Acq On : 06 Nov 2020 18:35
 Operator : SY/MD
 Sample : L4648-01DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA8DL

Quant Time: Nov 06 23:12:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 06 23:04:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	66472	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	68950	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	30808	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	21455	3.84	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.80%
7) Chloroethane-d5	1.92	69	19372	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.20%
11) 1,1-Dichloroethene-d2	2.58	63	35271	3.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.40%
20) 2-Butanone-d5	4.66	46	100562	54.68	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.36%
24) Chloroform-d	5.08	84	50409	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.20%
26) 1,2-Dichloroethane-d4	5.72	65	31926	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.40%
32) Benzene-d6	5.74	84	92127	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
36) 1,2-Dichloropropane-d6	6.70	67	31932	5.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.40%
41) Toluene-d8	7.91	98	78382	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
43) trans-1,3-Dichloropropene-	8.19	79	12740	4.89	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.80%
46) 2-Hexanone-d5	8.64	63	74722	53.33	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.66%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	28760	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	32153	5.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	119.00%

Target Compounds

					Ovalue
8) Chloroethane	1.95	64	340	0.086 ug/L #	43
9) Trichlorofluoromethane	2.15	101	18166	2.141 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	326	0.066 ug/L #	22
16) Methylene chloride	3.06	84	1187	0.217 ug/L	97
25) Chloroform	5.11	83	1357	0.142 ug/L	81
27) 1,2-Dichloroethane	5.75	62	552	0.077 ug/L #	74
31) Carbon tetrachloride	5.54	117	370	0.050 ug/L	90
33) Benzene	5.74	78	744	0.036 ug/L	100
35) Methylcyclohexane	6.70	83	7274	0.930 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	3694	0.663 ug/L #	86
39) cis-1,3-Dichloropropene	7.58	75	806	0.105 ug/L #	63
44) trans-1,3-Dichloropropene	8.18	75	527	0.073 ug/L #	75
47) Tetrachloroethene	8.56	164	30224	7.840 ug/L	97
48) 2-Hexanone	8.64	43	9987	2.984 ug/L #	68
49) Dibromochloromethane	8.56	129	30755	6.382 ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	4121	0.992 ug/L #	88
67) 1,3,5-Trichlorobenzene	13.21	180	655	0.105 ug/L #	56

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QLast Update : Fri Nov 06 23:04:51 2020
Response via : Initial Calibration

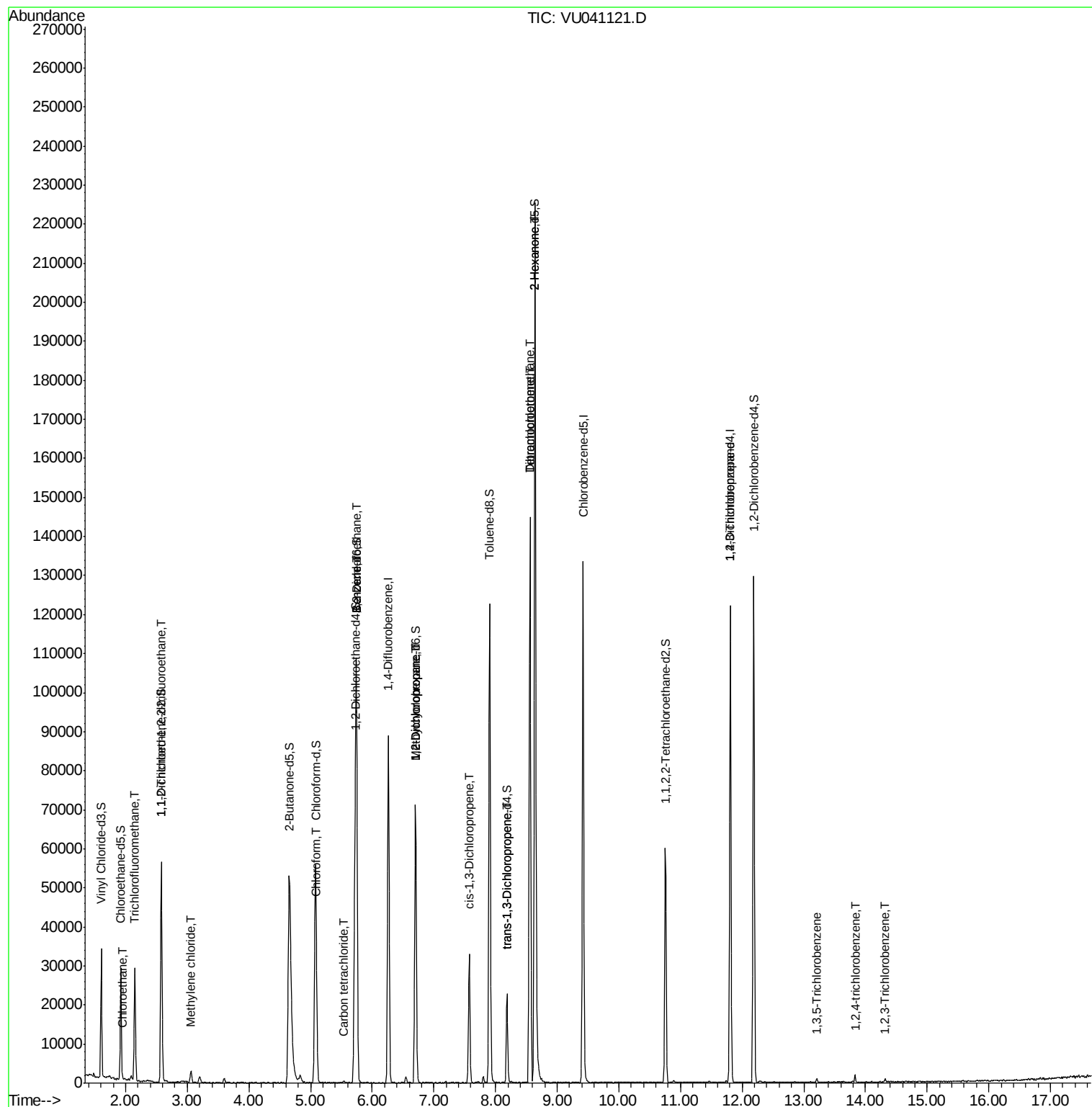
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.83	180	682	0.132	ug/L	87
70) 1,2,3-Trichlorobenzene	14.32	180	492	0.104	ug/L #	75

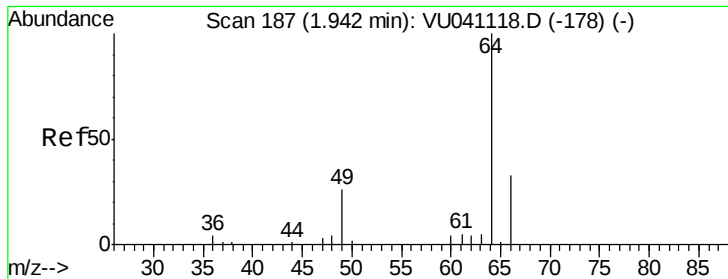
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.086 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Instrument :

MSVOA_U

ClientSampleId :

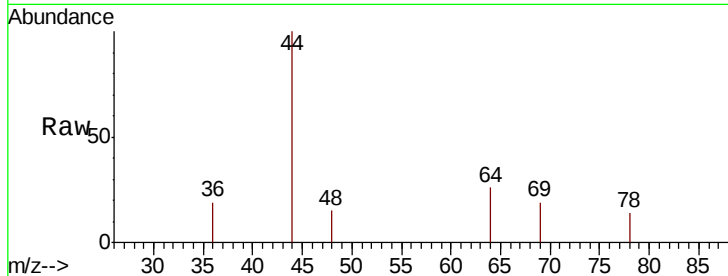
C0AA8DL

Tot Ion: 64 Resp: 340

Ion Ratio Lower Upper

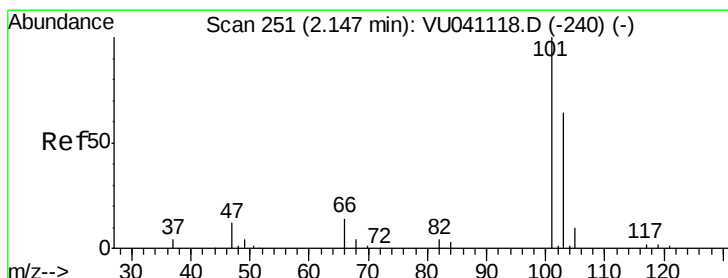
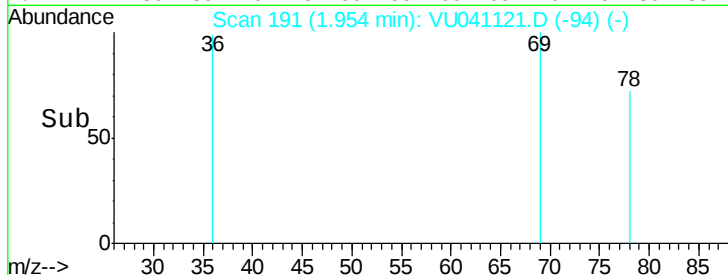
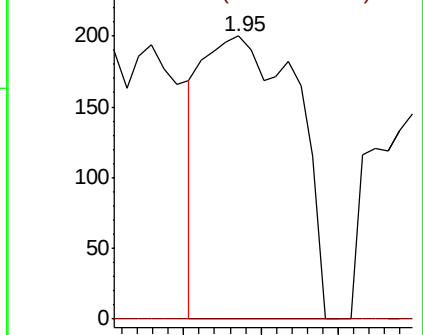
64 100

66 0.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 2.141 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU041121.D

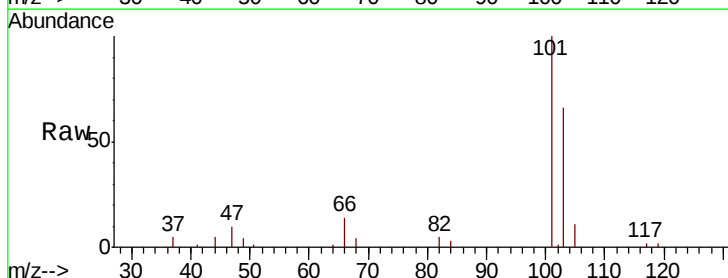
Acq: 06 Nov 2020 18:35

Tgt Ion:101 Resp: 18166

Ion Ratio Lower Upper

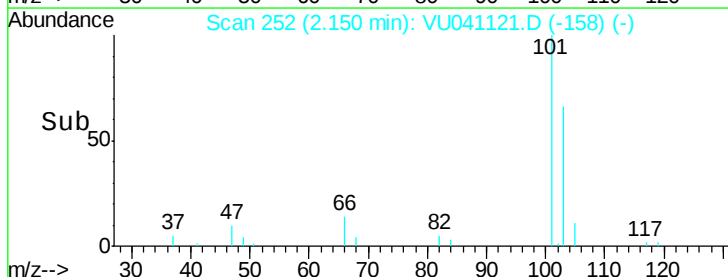
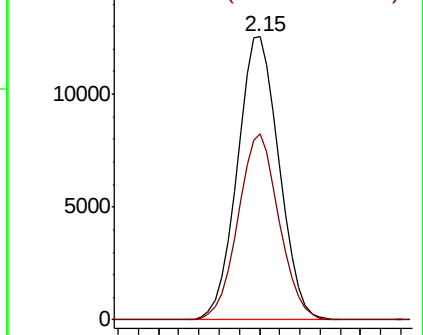
101 100

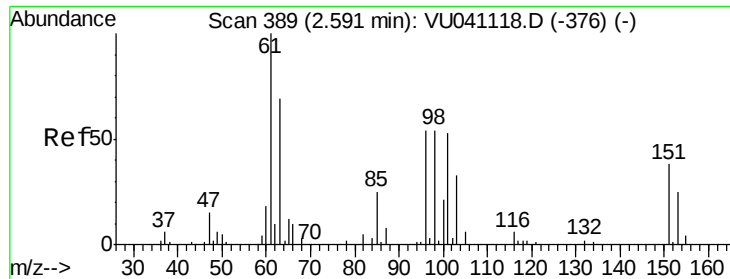
103 64.5 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.066 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Instrument :

MSVOA_U

ClientSampleId :

C0AA8DL

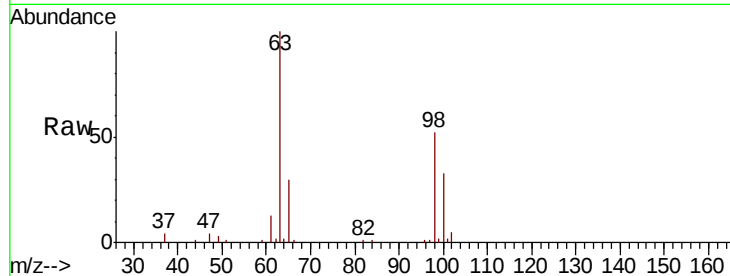
Tot Ion:101 Resp: 326

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

151 0.0 55.3 82.9#



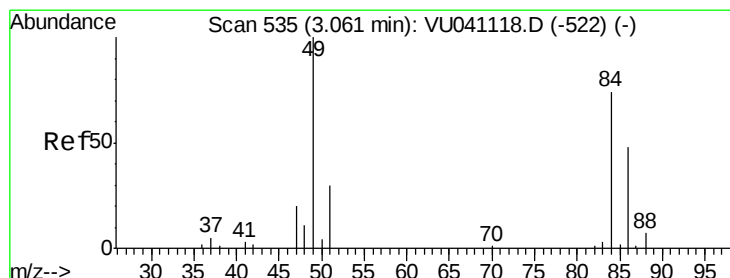
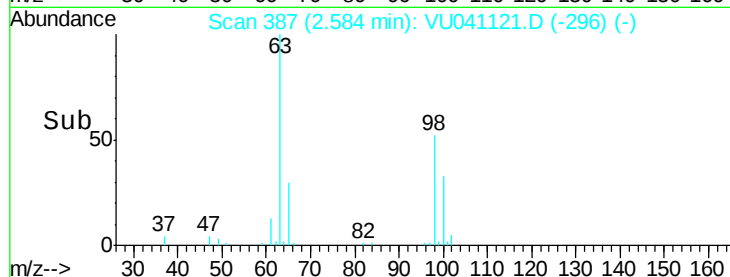
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

Time-->

2.56 2.58 2.60



#16

Methylene chloride

Concen: 0.217 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

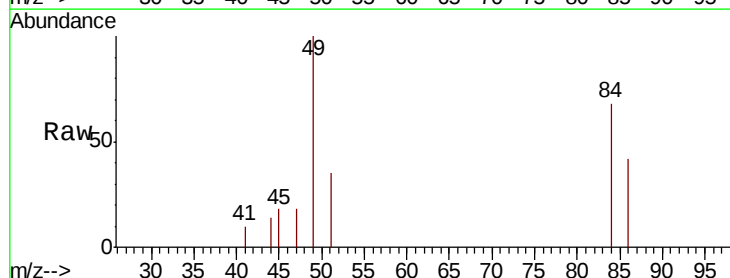
Tgt Ion: 84 Resp: 1187

Ion Ratio Lower Upper

84 100

86 61.9 42.8 79.6

49 147.0 99.5 184.7



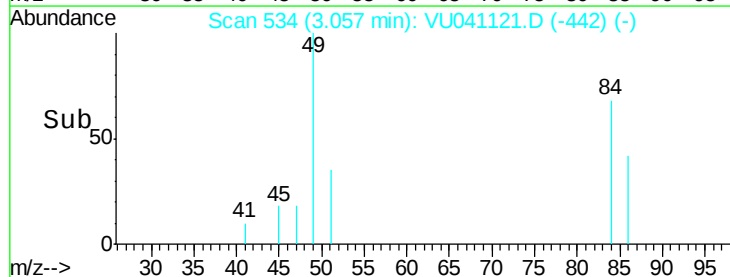
Abundance Ion 84.05 (83.75 to 84.75): VU0

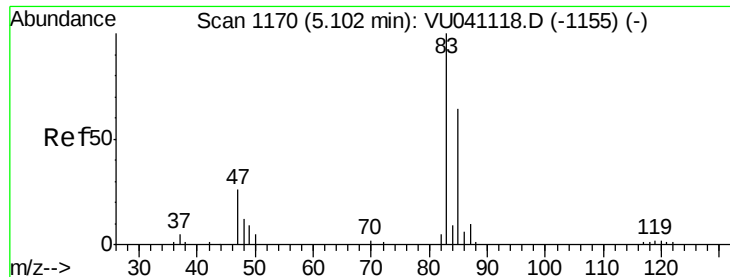
Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

Time-->

3.05 3.10

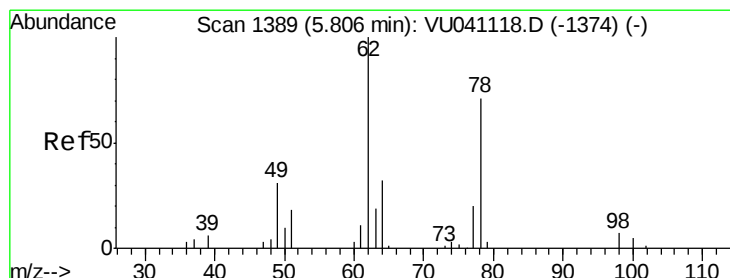
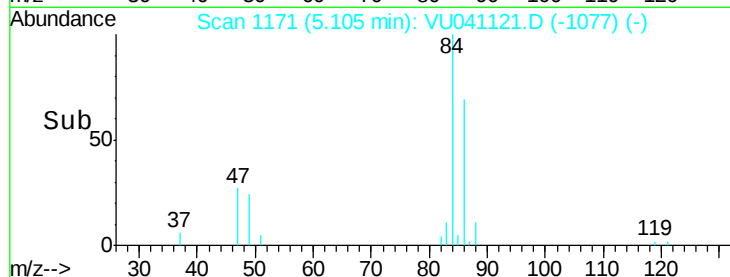
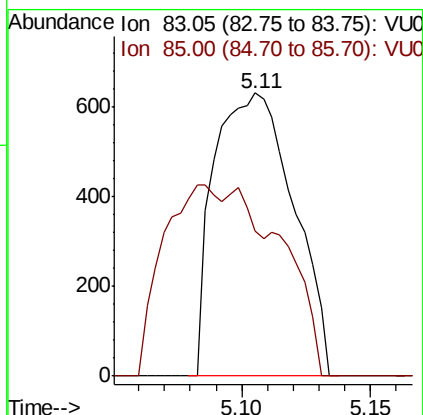
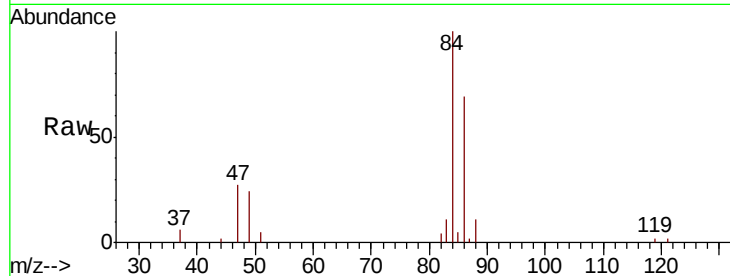




#25
Chloroform
Concen: 0.142 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041121.D
Acq: 06 Nov 2020 18:35

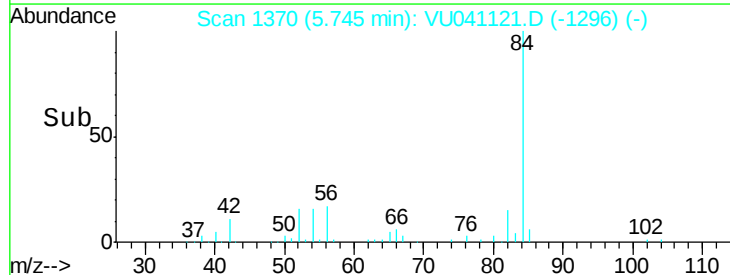
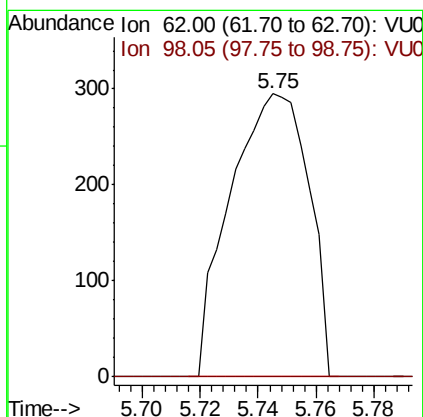
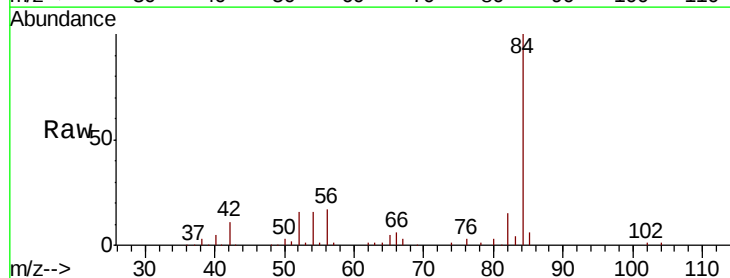
Instrument :
MSVOA_U
ClientSampleId :
C0AA8DL

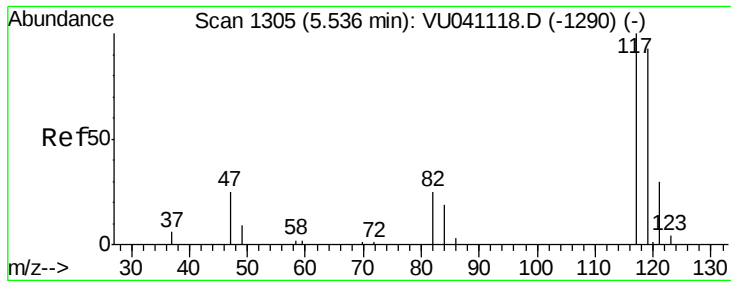
Tot Ion: 83 Resp: 1357
Ion Ratio Lower Upper
83 100
85 51.1 46.1 85.7



#27
1,2-Dichloroethane
Concen: 0.077 ug/L
RT: 5.75 min Scan# 1370
Delta R.T. -0.06 min
Lab File: VU041121.D
Acq: 06 Nov 2020 18:35

Tgt Ion: 62 Resp: 552
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#





#31

Carbon tetrachloride

Concen: 0.050 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Instrument :

MSVOA_U

ClientSampleId :

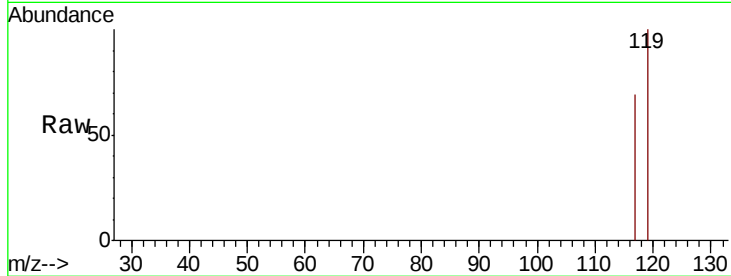
C0AA8DL

Tot Ion:117 Resp: 370

Ion Ratio Lower Upper

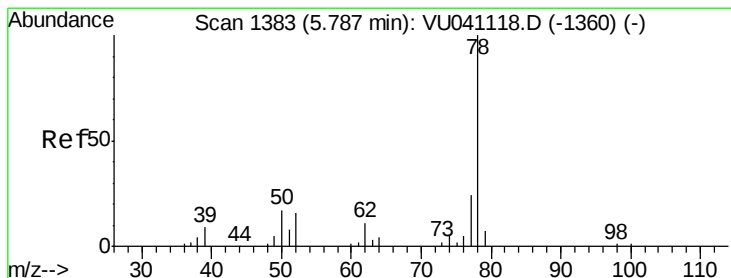
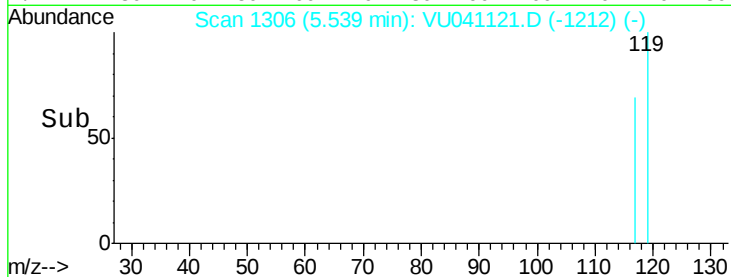
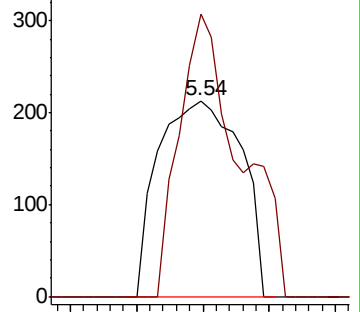
117 100

119 105.1 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.036 ug/L

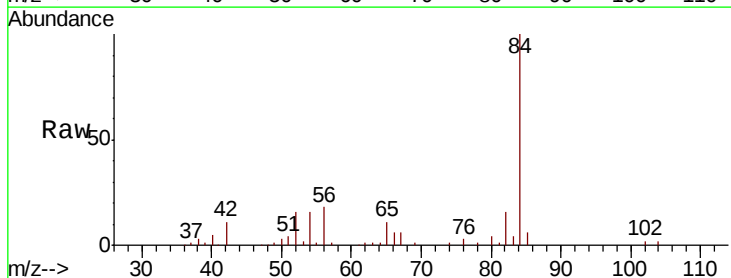
RT: 5.74 min Scan# 1368

Delta R.T. -0.05 min

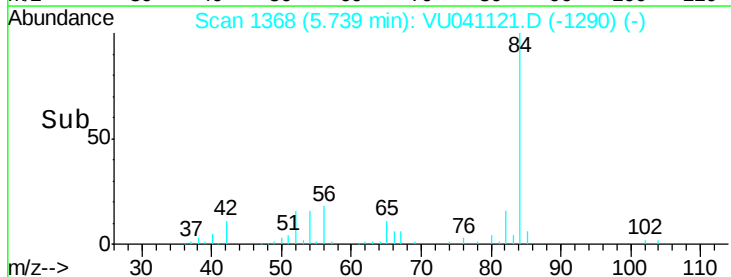
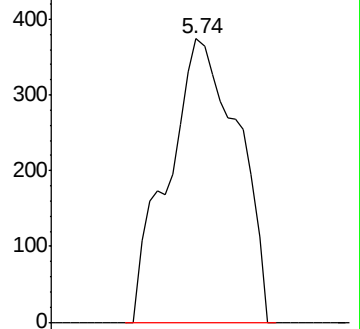
Lab File: VU041121.D

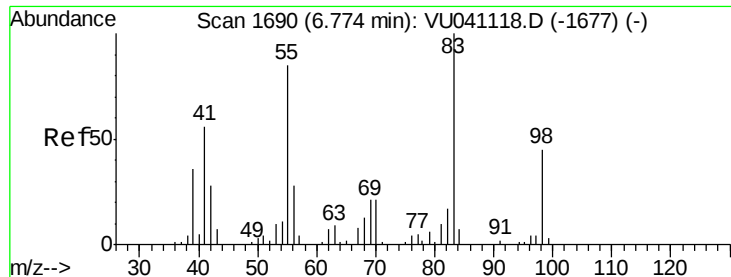
Acq: 06 Nov 2020 18:35

Tgt Ion: 78 Resp: 744



Abundance Ion 78.10 (77.80 to 78.80): VU0

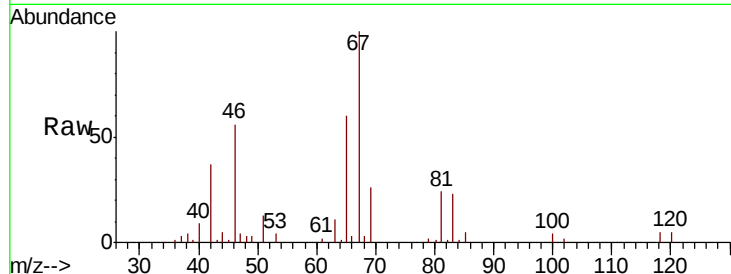




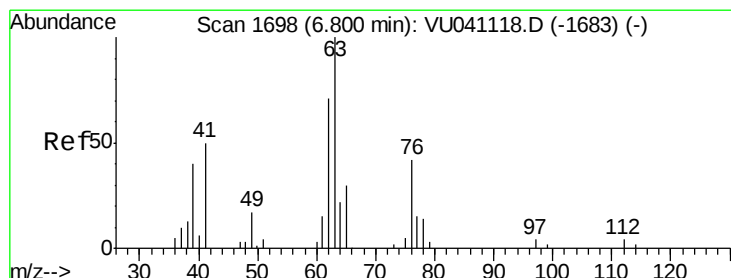
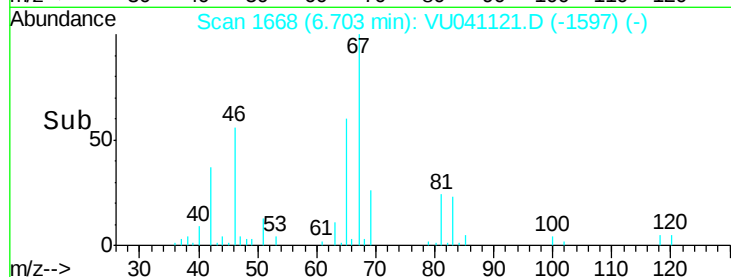
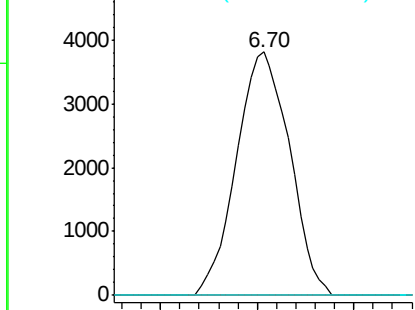
#35
Methvlcvclohexane
Concen: 0.930 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041121.D
Acq: 06 Nov 2020 18:35

Instrument :
MSVOA_U
ClientSampleId :
C0AA8DL

Tot Ion: 83 Resp: 7274
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 1.1 36.6 55.0#

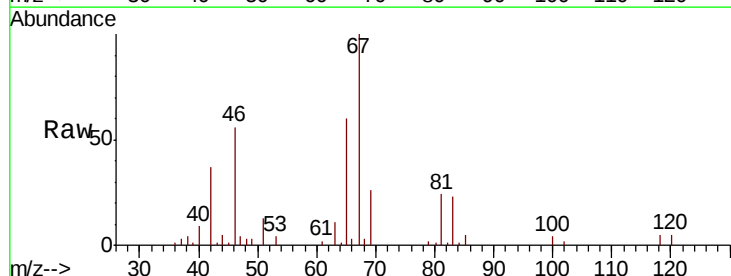


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

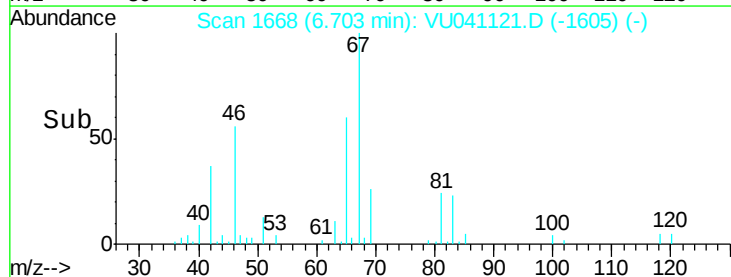
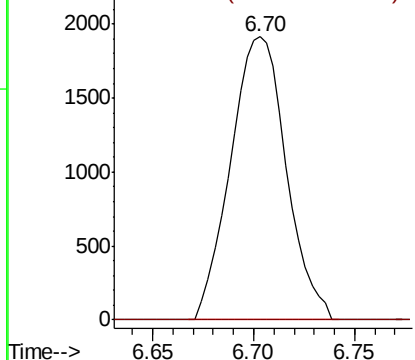


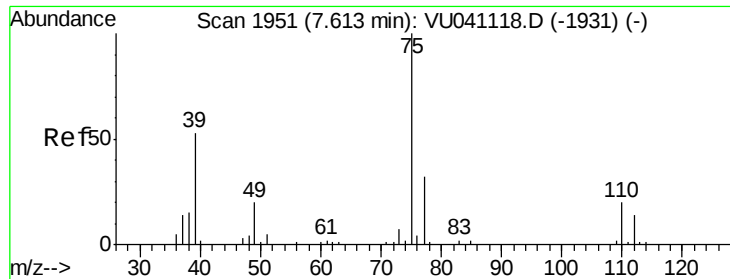
#37
1,2-Dichloropropane
Concen: 0.663 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041121.D
Acq: 06 Nov 2020 18:35

Tgt Ion: 63 Resp: 3694
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

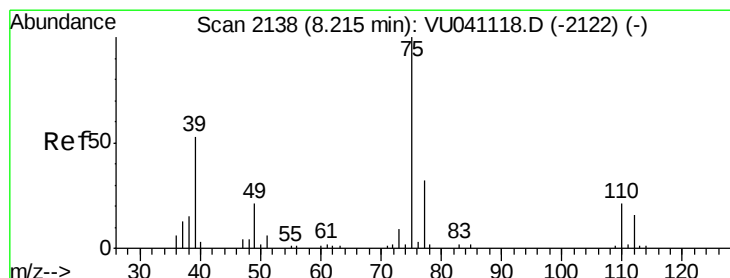
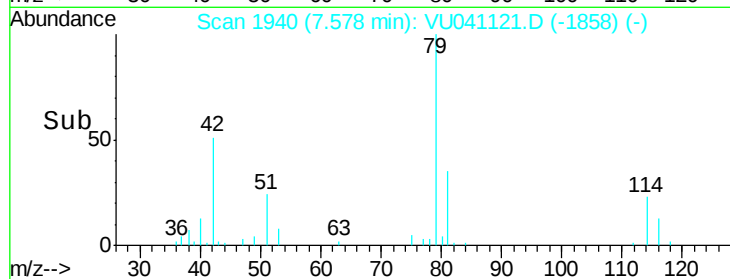
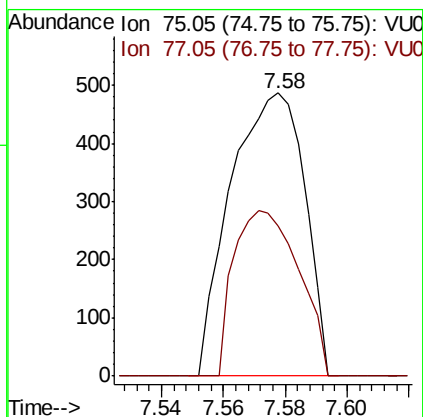
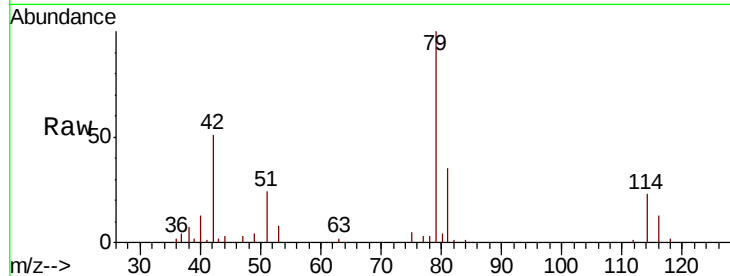




#39
 cis-1,3-Dichloropropene
 Concen: 0.105 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041121.D
 Acq: 06 Nov 2020 18:35

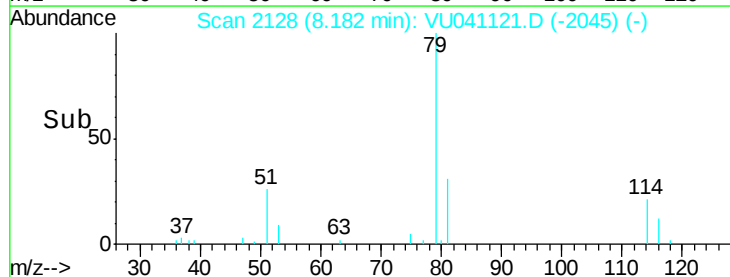
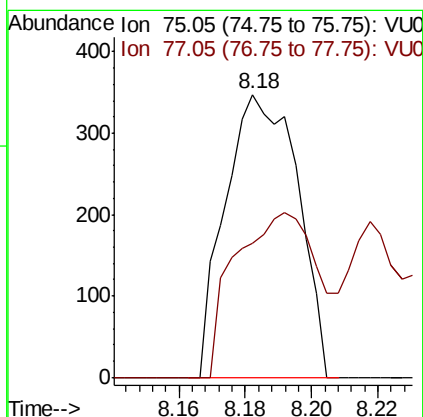
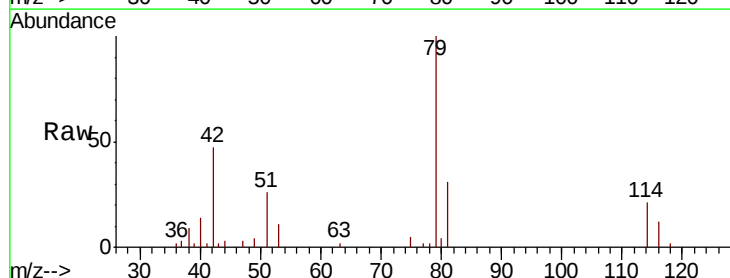
Instrument :
 MSVOA_U
 ClientSampled :
 C0AA8DL

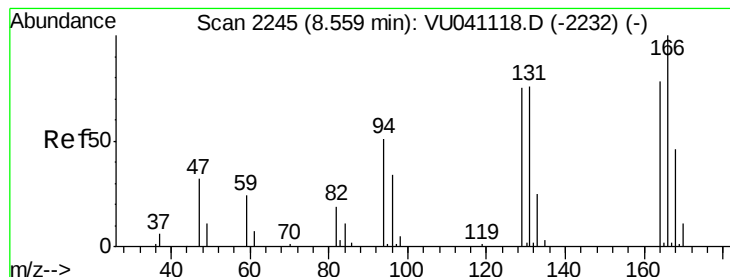
Tot Ion: 75 Resp: 806
 Ion Ratio Lower Upper
 75 100
 77 53.2 22.7 42.3#



#44
 trans-1,3-Dichloropropene
 Concen: 0.073 ug/L
 RT: 8.18 min Scan# 2128
 Delta R.T. -0.03 min
 Lab File: VU041121.D
 Acq: 06 Nov 2020 18:35

Tgt Ion: 75 Resp: 527
 Ion Ratio Lower Upper
 75 100
 77 47.4 23.3 43.3#





#47

Tetrachloroethene

Concen: 7.840 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Instrument :

MSVOA_U

ClientSampleId :

C0AA8DL

Tot Ion:164 Resp: 30224

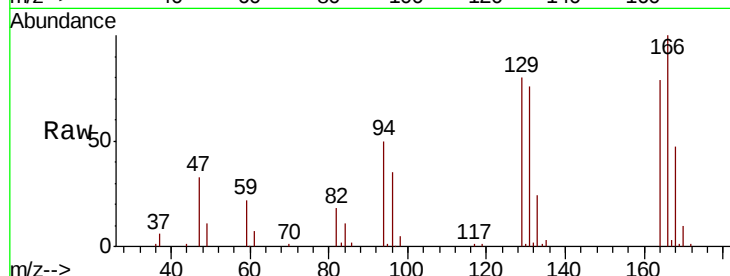
Ion Ratio Lower Upper

164 100

129 100.8 70.3 130.7

131 96.5 70.8 131.4

166 126.6 92.0 170.8

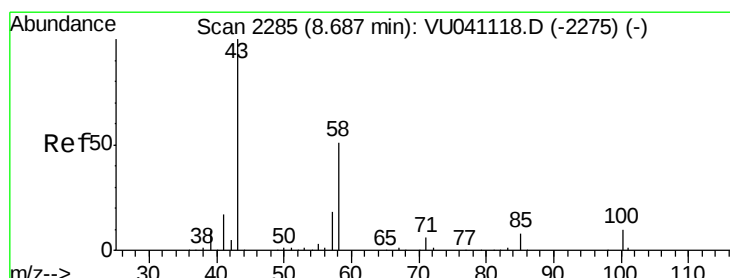
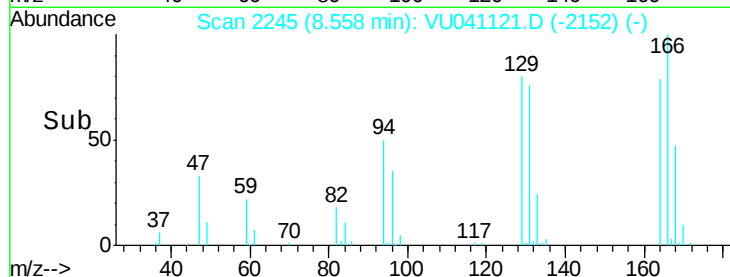
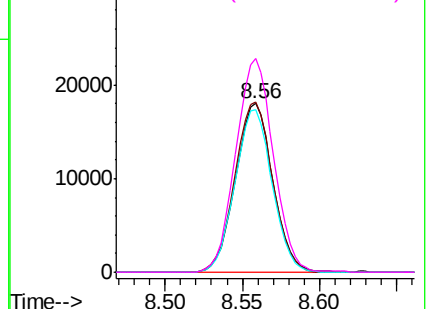


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 2.984 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Tgt Ion: 43 Resp: 9987

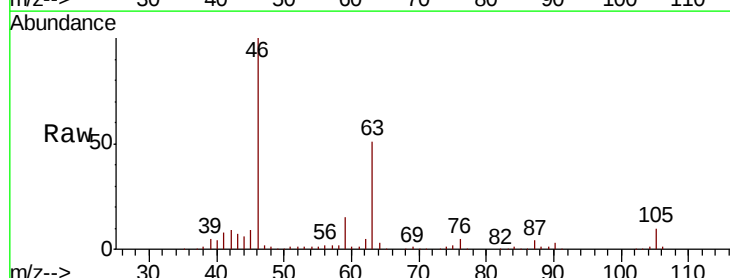
Ion Ratio Lower Upper

43 100

58 28.5 41.4 62.2#

57 31.9 14.6 21.8#

100 0.7 8.3 12.5#

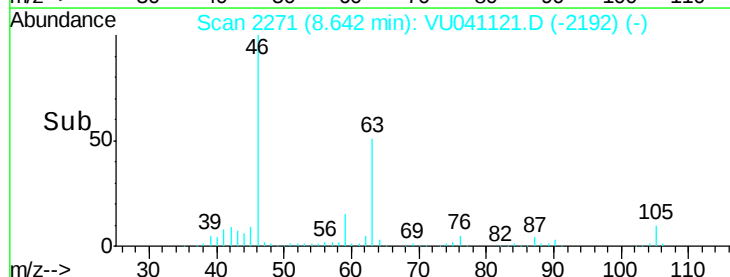
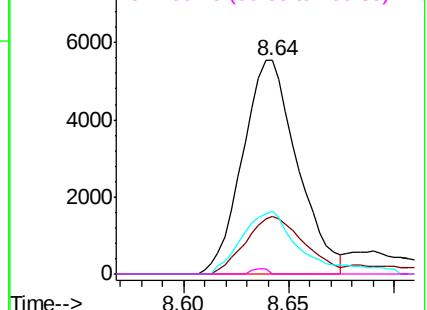


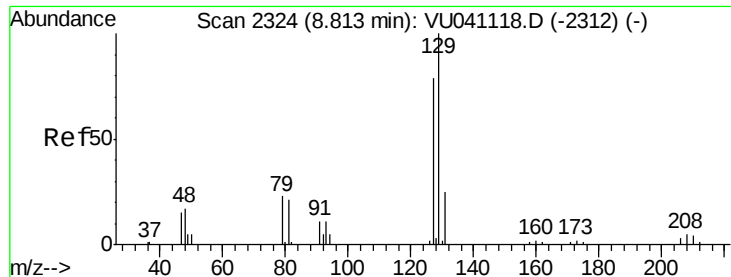
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 6.382 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Instrument :

MSVOA_U

ClientSampleId :

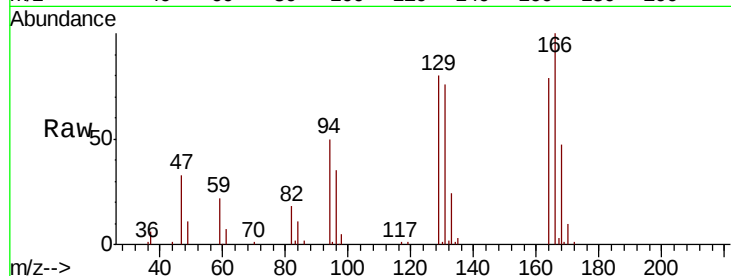
C0AA8DL

Tot Ion:129 Resp: 30755

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

20000

15000

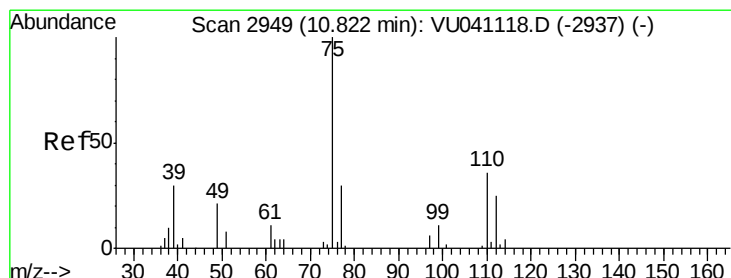
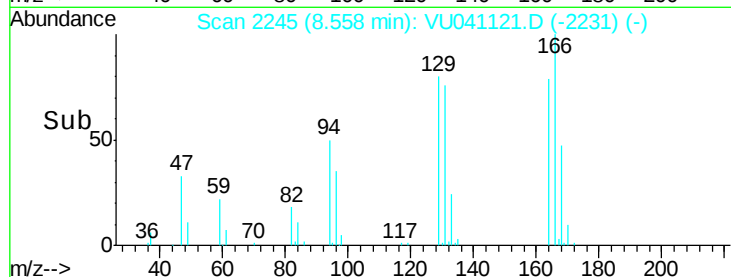
10000

5000

0

8.50 8.55 8.60

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.992 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041121.D

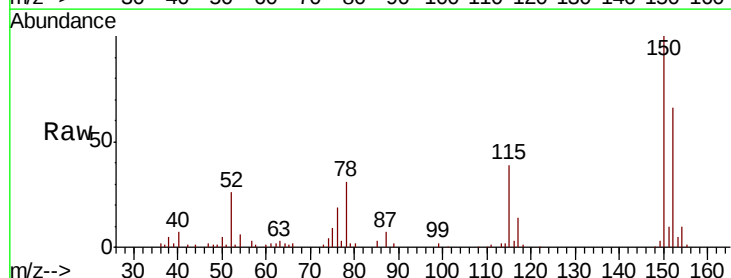
Acq: 06 Nov 2020 18:35

Tgt Ion: 75 Resp: 4121

Ion Ratio Lower Upper

75 100

77 39.1 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

3000

2500

2000

1500

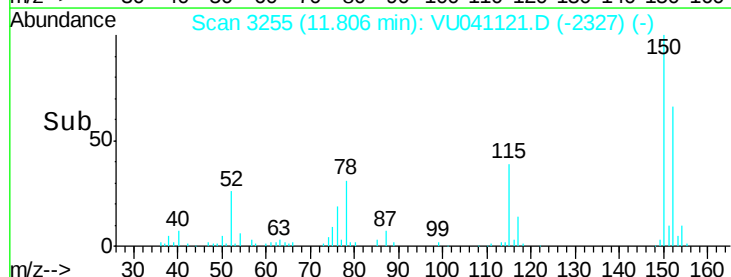
1000

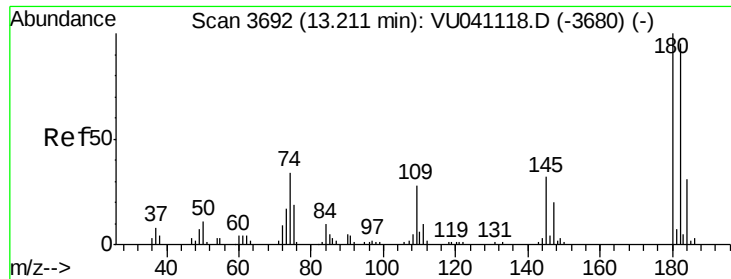
500

0

11.75 11.80 11.85

Time-->

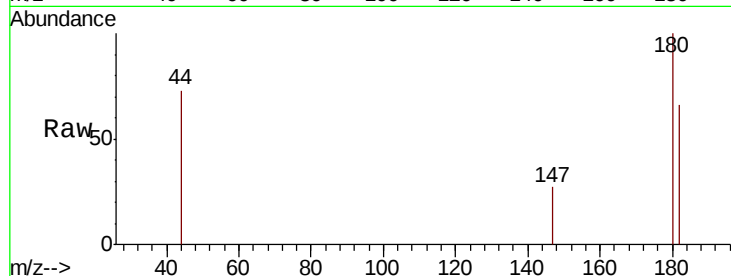




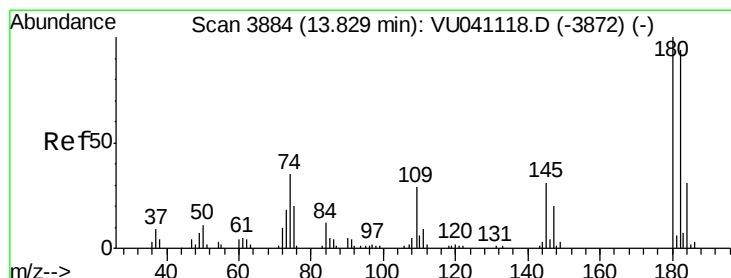
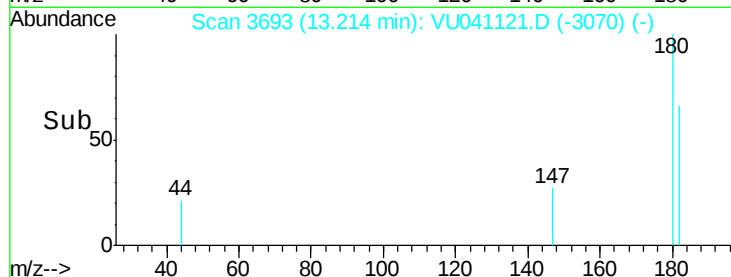
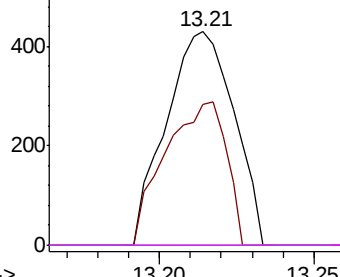
#67
 1,3,5-Trichlorobenzene
 Concen: 0.105 ug/L
 RT: 13.21 min Scan# 3693
 Delta R.T. 0.00 min
 Lab File: VU041121.D
 Acq: 06 Nov 2020 18:35

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA8DL

Tot Ion:180 Resp: 655
 Ion Ratio Lower Upper
 180 100
 182 60.3 75.7 113.5#
 184 0.0 23.7 35.5#
 145 0.0 26.1 39.1#

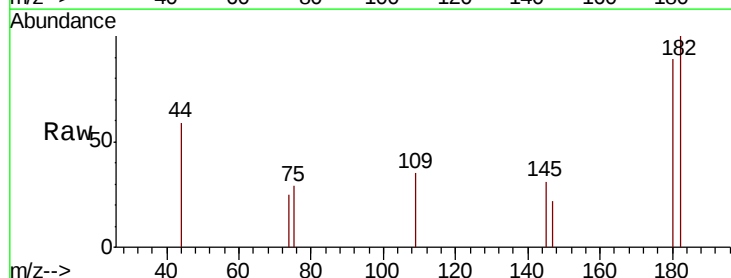


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

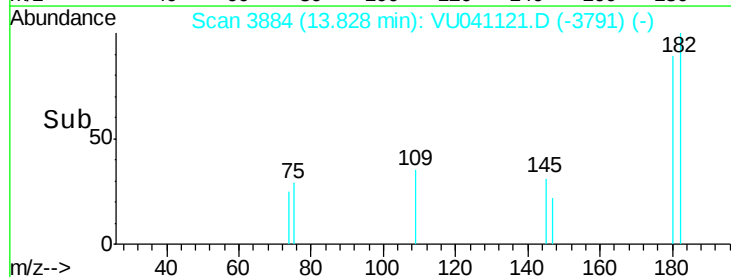
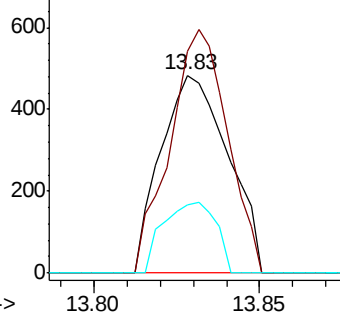


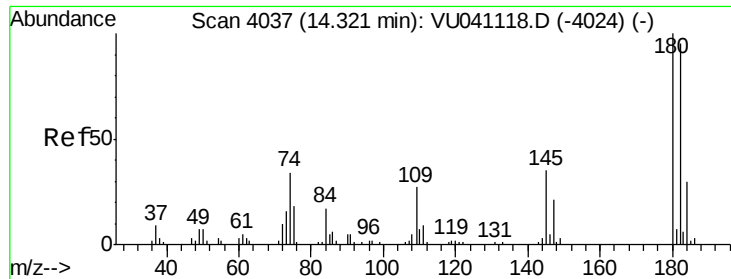
#68
 1,2,4-trichlorobenzene
 Concen: 0.132 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU041121.D
 Acq: 06 Nov 2020 18:35

Tgt Ion:180 Resp: 682
 Ion Ratio Lower Upper
 180 100
 182 105.3 73.5 110.3
 145 28.0 26.6 40.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#70

1,2,3-Trichlorobenzene

Concen: 0.104 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.00 min

Lab File: VU041121.D

Acq: 06 Nov 2020 18:35

Instrument :

MSVOA_U

ClientSampleId :

C0AA8DL

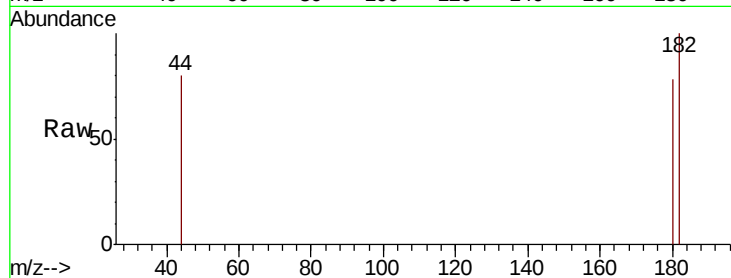
Tot Ion:180 Resp: 492

Ion Ratio Lower Upper

180 100

182 113.4 77.7 116.5

145 8.5 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-->

