

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041945.D
 Acq On : 12 Jan 2021 01:24
 Operator : SY/MD
 Sample : M1049-03DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AQ5DL

Quant Time: Jan 12 05:52:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 12 05:50:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	111012	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	109144	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	45913	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	45441	4.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.00%
7) Chloroethane-d5	1.92	69	42804	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.80%
11) 1,1-Dichloroethene-d2	2.58	63	68613	3.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.40%
20) 2-Butanone-d5	4.66	46	150319	57.81	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.62%
24) Chloroform-d	5.08	84	85275	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
26) 1,2-Dichloroethane-d4	5.72	65	48232	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.74	84	160012	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.70	67	52538	5.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.80%
41) Toluene-d8	7.90	98	132462	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
43) trans-1,3-Dichloropropene-	8.19	79	19486	4.61	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.20%
46) 2-Hexanone-d5	8.64	63	123601	57.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.56%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47754	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	47890	5.52	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.40%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	560	0.048 ug/L	90
9) Trichlorofluoromethane	2.15	101	37574	2.296 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	625	0.070 ug/L #	20
12) 1,1-Dichloroethene	2.58	96	600	0.069 ug/L #	1
16) Methylene chloride	3.06	84	10835	0.995 ug/L	96
22) cis-1,2-Dichloroethene	4.69	96	3626	0.404 ug/L	93
25) Chloroform	5.11	83	1146	0.070 ug/L #	61
27) 1,2-Dichloroethane	5.74	62	1016	0.096 ug/L #	73
31) Carbon tetrachloride	5.54	117	632	0.051 ug/L	90
34) Trichloroethene	6.55	95	91479	9.907 ug/L	99
35) Methylcyclohexane	6.70	83	12120	0.893 ug/L #	17
37) 1,2-Dichloropropane	6.70	63	5357	0.611 ug/L #	88
39) cis-1,3-Dichloropropene	7.58	75	1089	0.084 ug/L #	59
44) trans-1,3-Dichloropropene	8.18	75	749	0.065 ug/L #	80
47) Tetrachloroethene	8.56	164	33358	5.192 ug/L	96
48) 2-Hexanone	8.64	43	14600	3.556 ug/L #	68
49) Dibromochloromethane	8.56	129	32964	4.028 ug/L #	10

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jan 12 05:50:11 2021
Response via : Initial Calibration

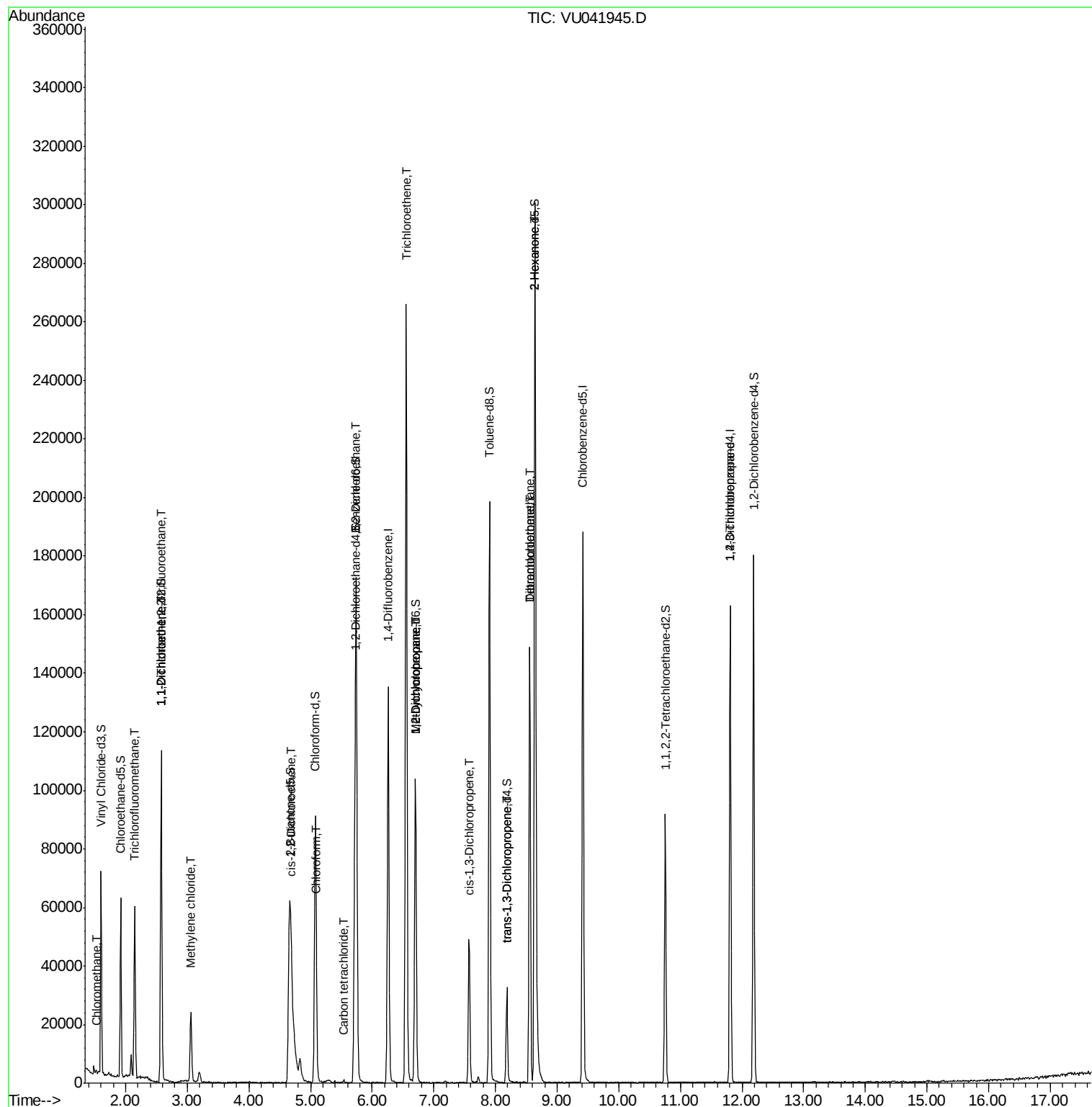
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	5007	0.781	ug/L	93

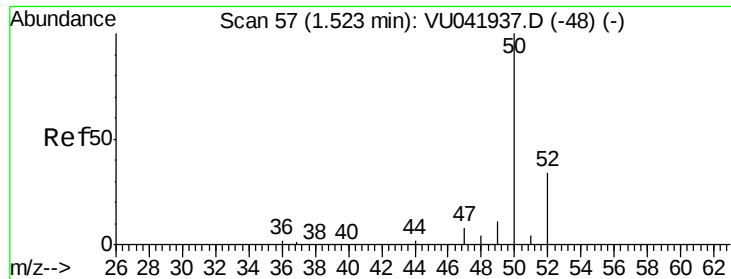
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 12 05:50:11 2021
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.048 ug/L

RT: 1.52 min Scan# 56

Delta R.T. -0.00 min

Lab File: VU041945.D

Acq: 12 Jan 2021 01:24

Instrument :

MSVOA_U

ClientSampleId :

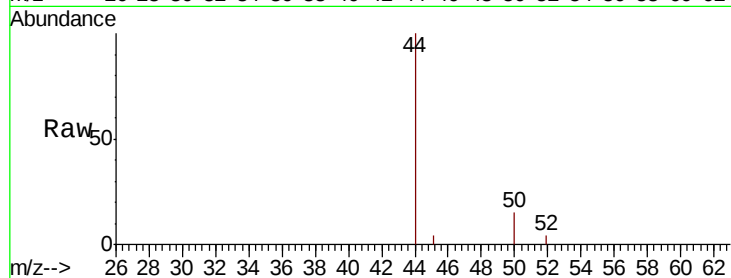
C0AQ5DL

Tot Ion: 50 Resp: 560

Ion Ratio Lower Upper

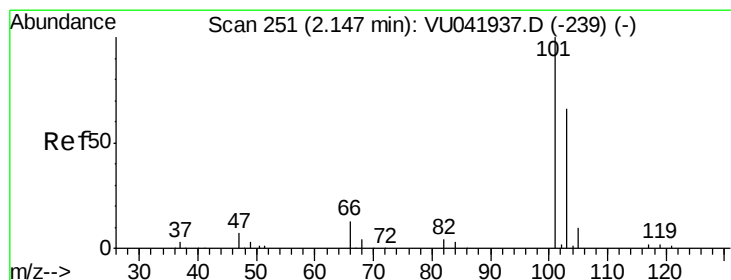
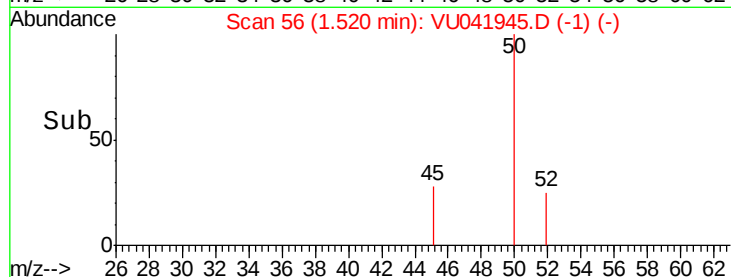
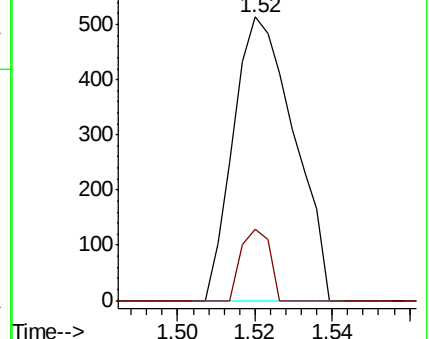
50 100

52 25.1 21.4 39.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#9

Trichlorofluoromethane

Concen: 2.296 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU041945.D

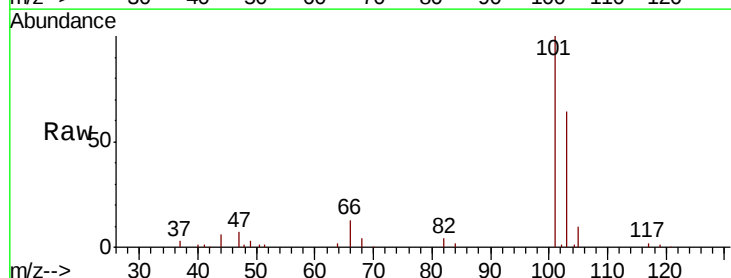
Acq: 12 Jan 2021 01:24

Tgt Ion: 101 Resp: 37574

Ion Ratio Lower Upper

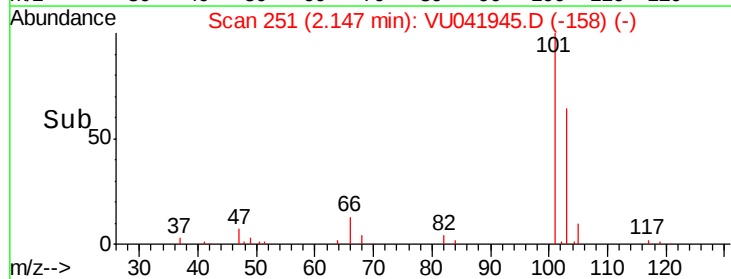
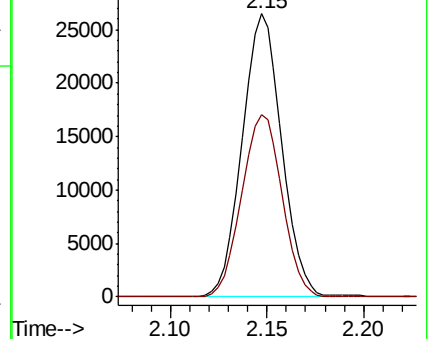
101 100

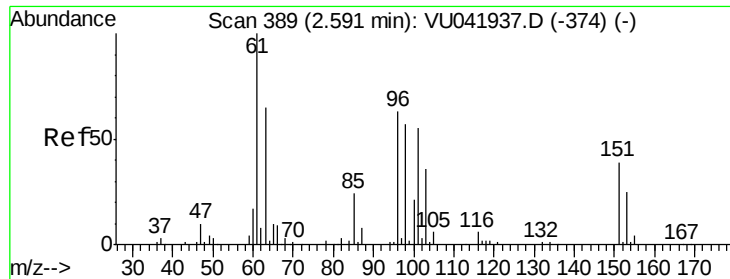
103 65.8 51.3 76.9



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: 0.070 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041945.D

Acq: 12 Jan 2021 01:24

Instrument :

MSVOA_U

ClientSampleId :

C0AQ5DL

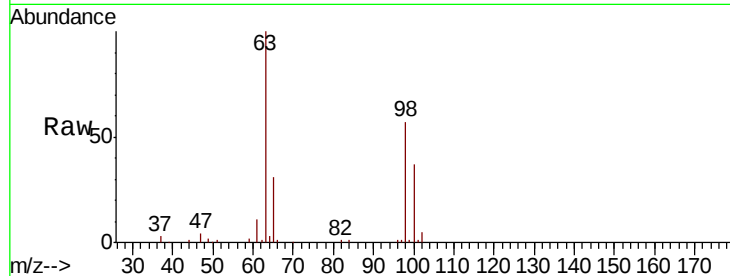
Tot Ion:101 Resp: 625

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

151 0.0 58.2 87.2#



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

2.58

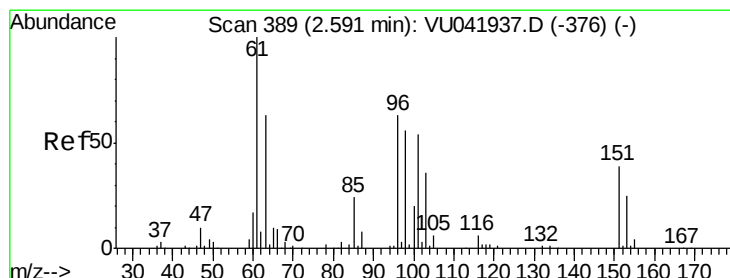
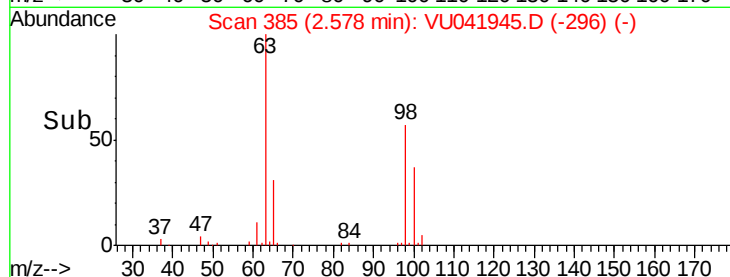
400

200

0

2.54 2.56 2.58 2.60

Time-->



#12

1,1-Dichloroethene

Concen: 0.069 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041945.D

Acq: 12 Jan 2021 01:24

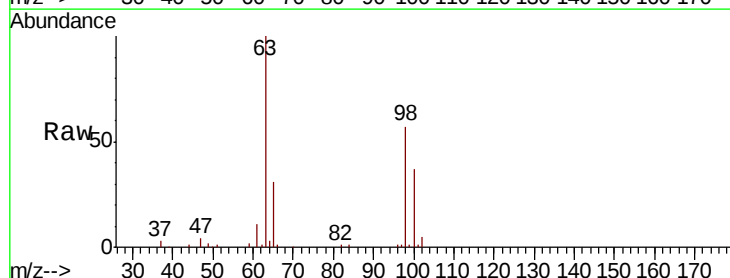
Tgt Ion: 96 Resp: 600

Ion Ratio Lower Upper

96 100

61 1113.8 123.5 229.4#

63 9819.4 93.5 173.7#



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

50000

40000

30000

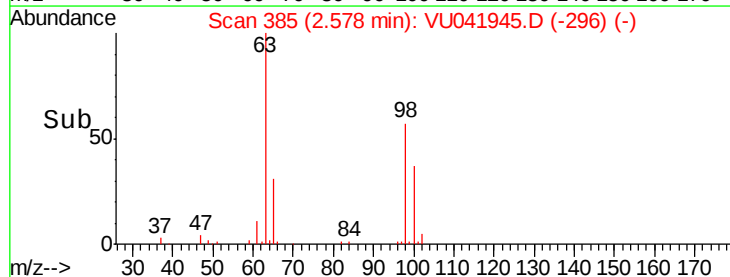
20000

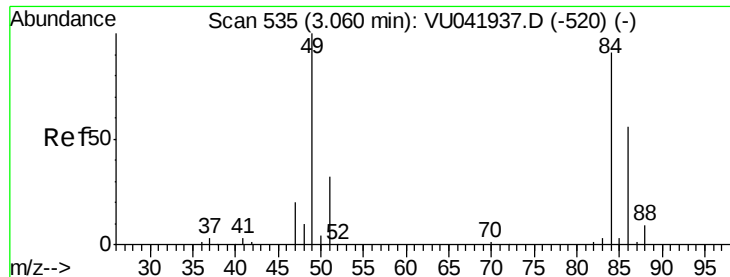
10000

0

2.54 2.56 2.58 2.60

Time-->

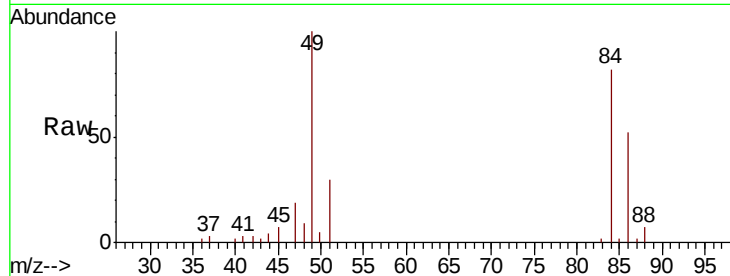




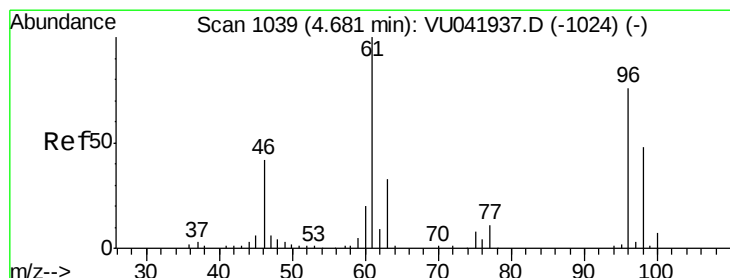
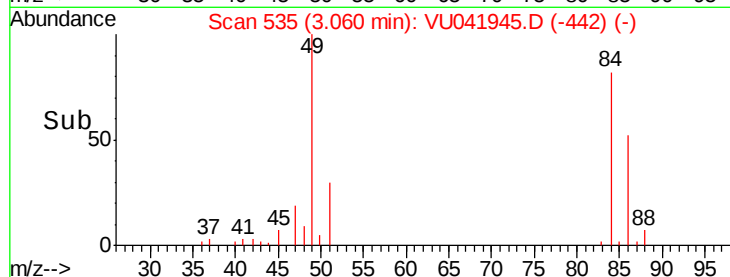
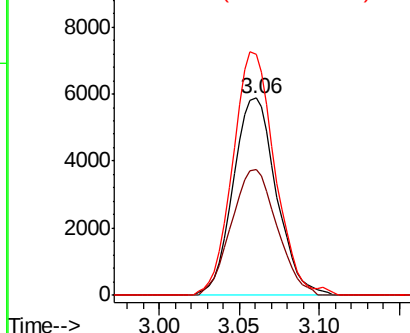
#16
Methvlene chloride
Concen: 0.995 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Instrument :
MSVOA_U
ClientSampleId :
C0AQ5DL

Tot Ion: 84 Resp: 10835
Ion Ratio Lower Upper
84 100
86 64.1 43.5 80.7
49 122.1 81.8 151.8

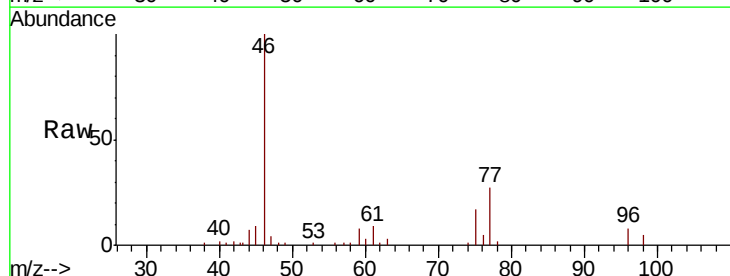


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

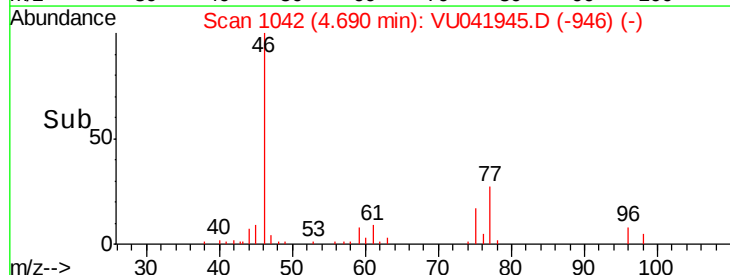
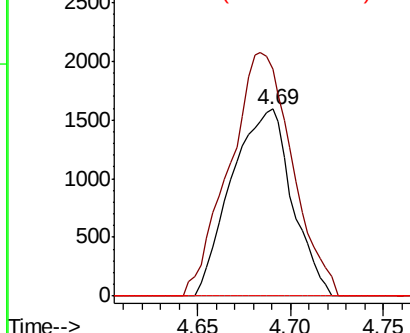


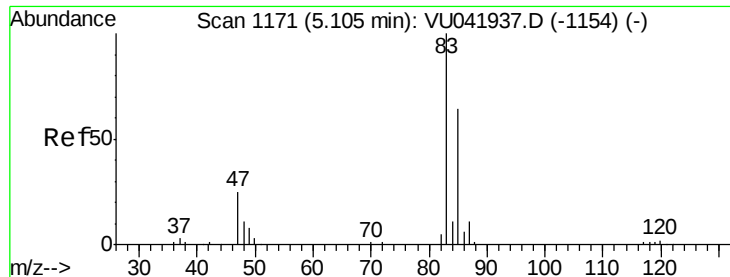
#22
cis-1,2-Dichloroethene
Concen: 0.404 ug/L
RT: 4.69 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Tgt Ion: 96 Resp: 3626
Ion Ratio Lower Upper
96 100
61 121.2 90.3 167.7
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0

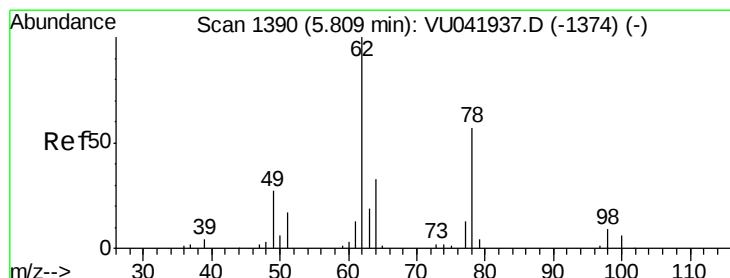
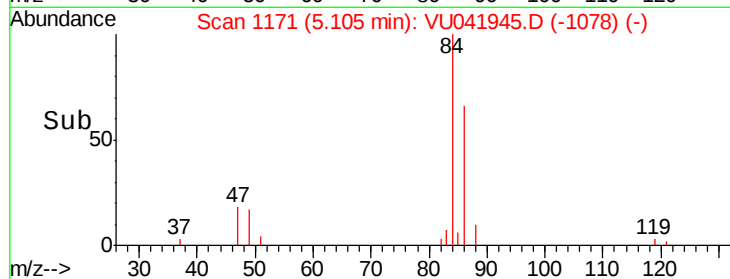
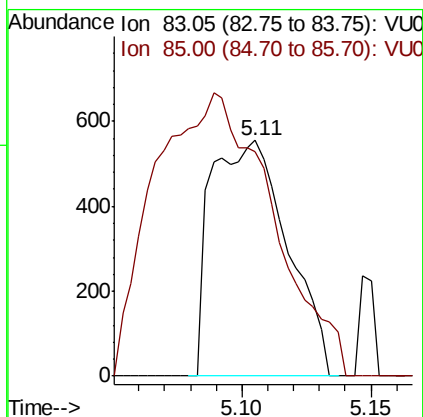
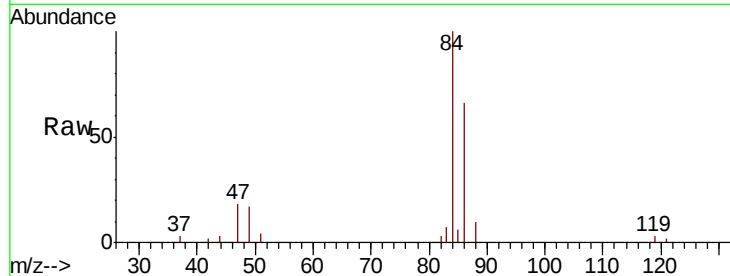




#25
Chloroform
Concen: 0.070 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

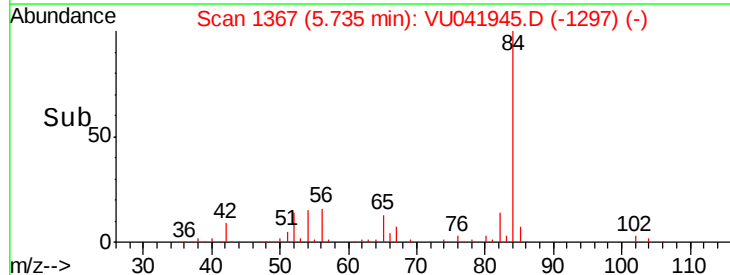
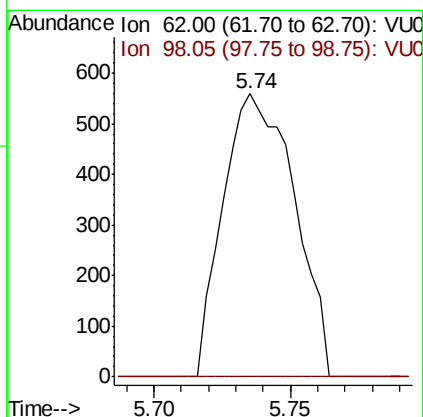
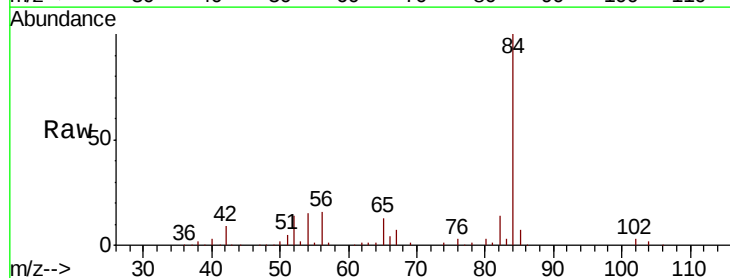
Instrument :
MSVOA_U
ClientSampleId :
C0AQ5DL

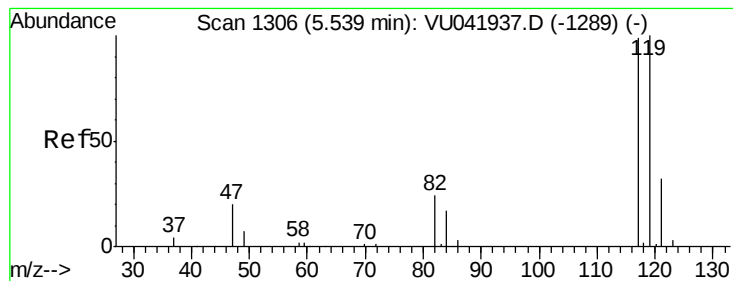
Tot Ion: 83 Resp: 1146
Ion Ratio Lower Upper
83 100
85 95.5 45.1 83.9#



#27
1,2-Dichloroethane
Concen: 0.096 ug/L
RT: 5.74 min Scan# 1367
Delta R.T. -0.07 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Tgt Ion: 62 Resp: 1016
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#





#31

Carbon tetrachloride

Concen: 0.051 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU041945.D

Acq: 12 Jan 2021 01:24

Instrument :

MSVOA_U

ClientSampleId :

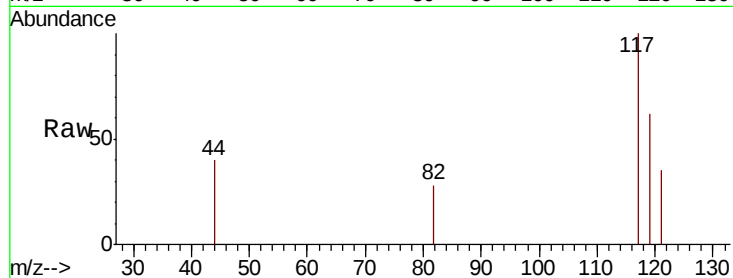
C0AQ5DL

Tot Ion:117 Resp: 632

Ion Ratio Lower Upper

117 100

119 84.5 75.0 112.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.54

400

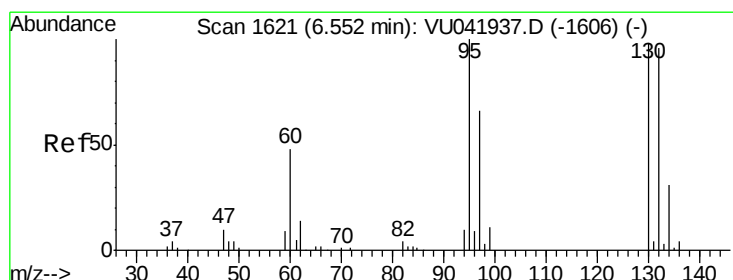
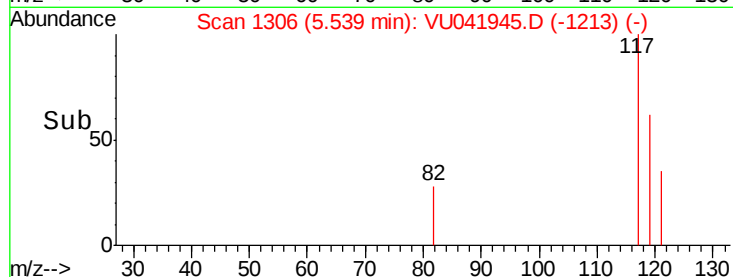
300

200

100

0

Time-->



#34

Trichloroethene

Concen: 9.907 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041945.D

Acq: 12 Jan 2021 01:24

Tgt Ion: 95 Resp: 91479

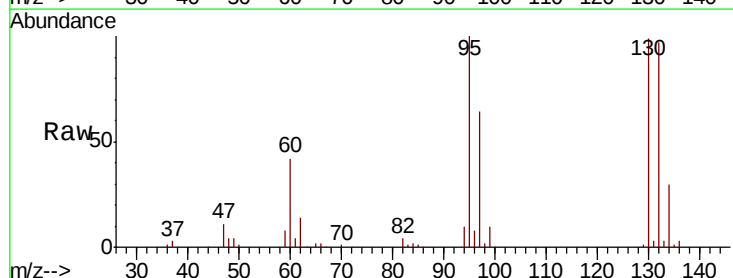
Ion Ratio Lower Upper

95 100

97 63.6 45.2 84.0

132 96.9 68.7 127.5

130 98.6 68.0 126.4



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

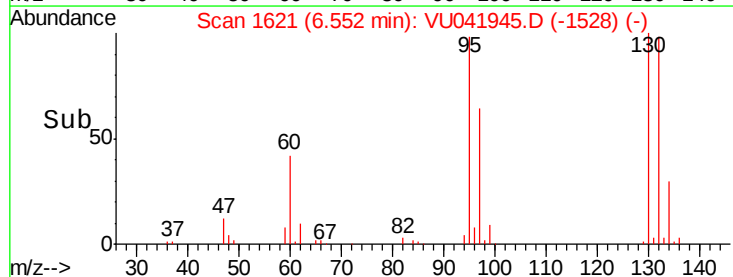
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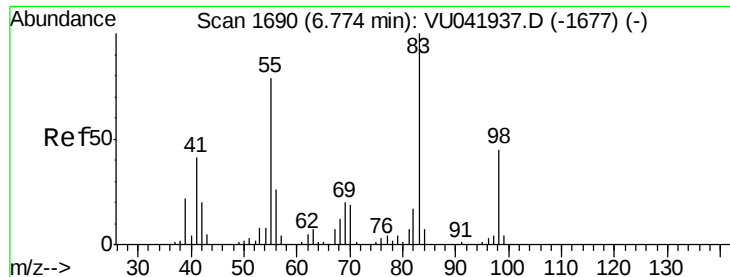
40000

20000

0

Time-->

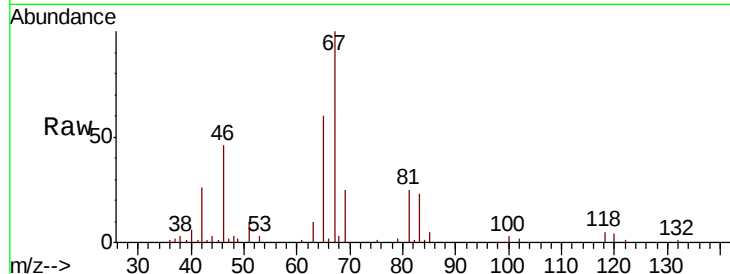




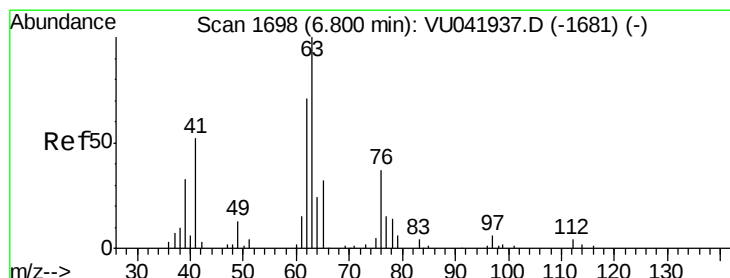
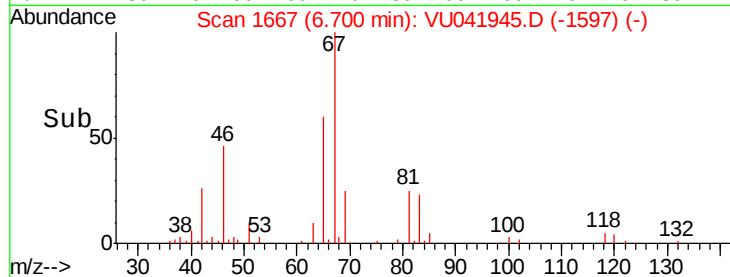
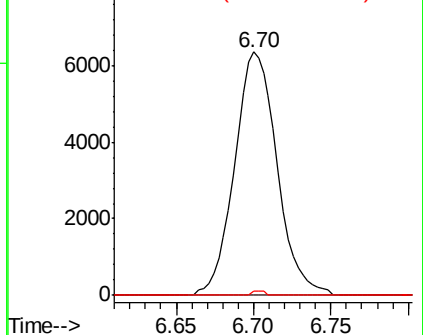
#35
Methylcyclohexane
Concen: 0.893 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Instrument :
MSVOA_U
ClientSampleId :
C0AQ5DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	64.3	96.5#
98	0.0	36.6	54.8#

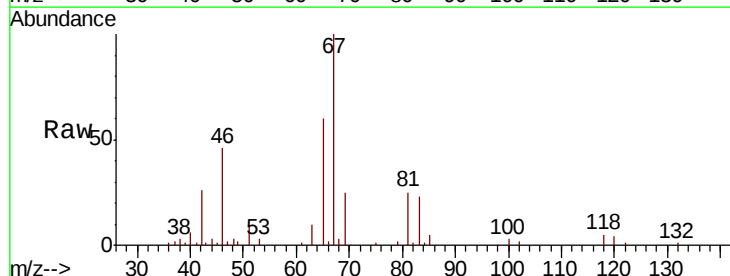


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

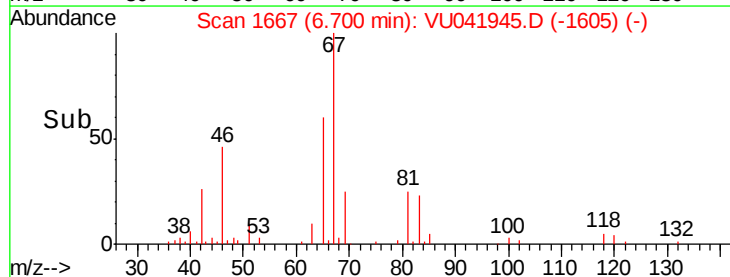
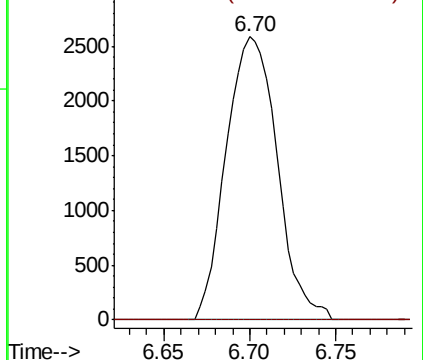


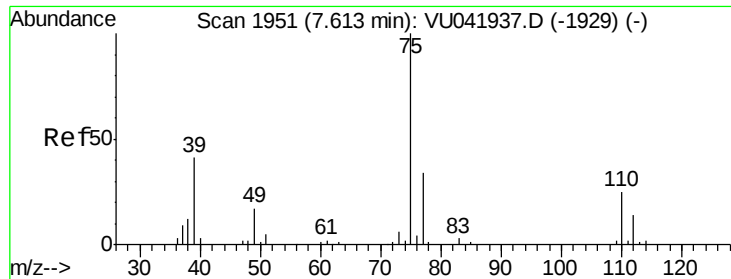
#37
1,2-Dichloropropane
Concen: 0.611 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.3	4.9#



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

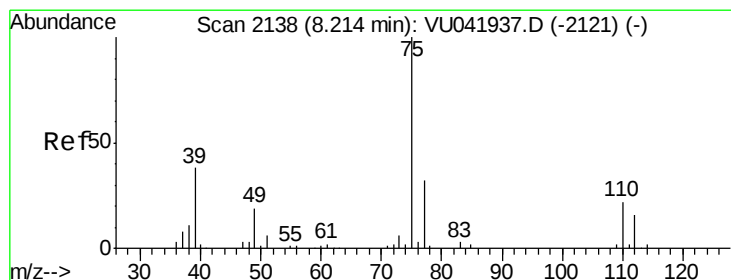
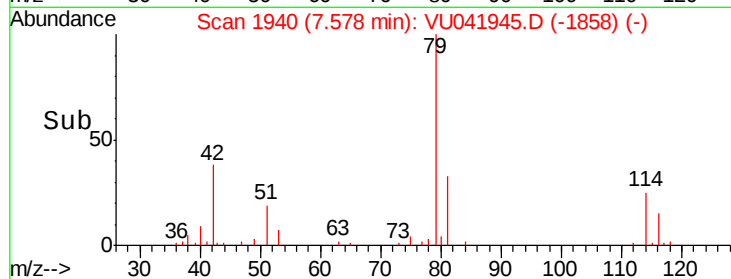
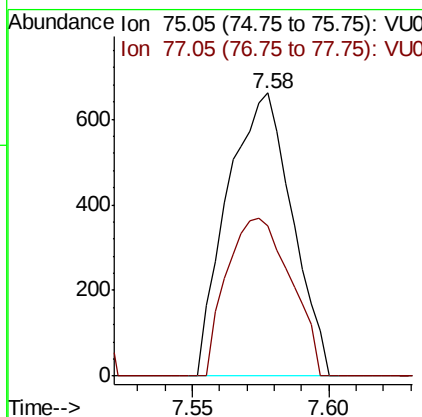
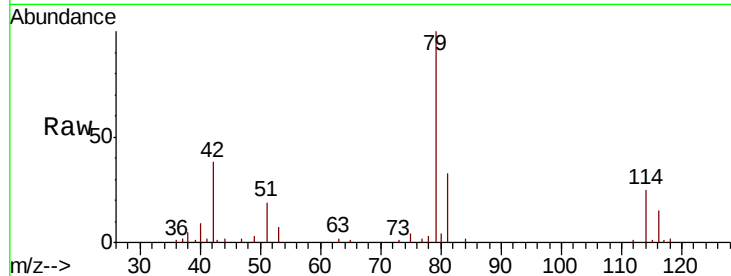




#39
 cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041945.D
 Acq: 12 Jan 2021 01:24

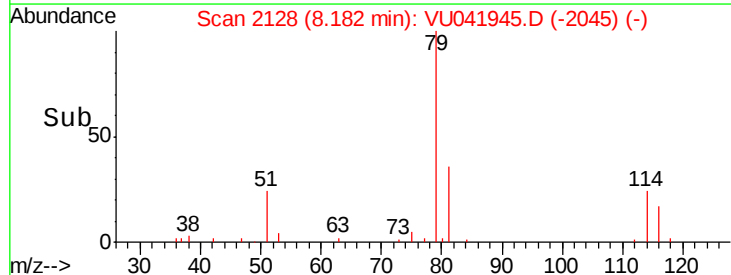
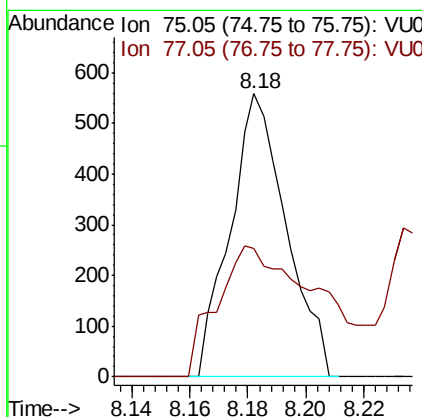
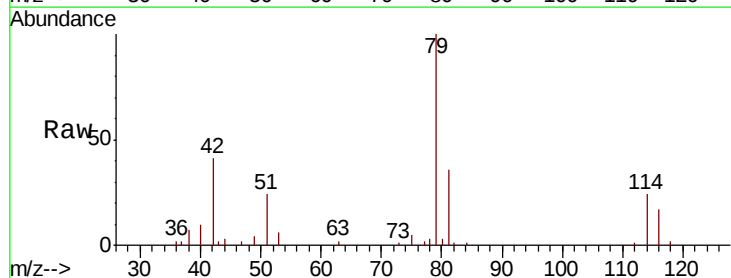
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AQ5DL

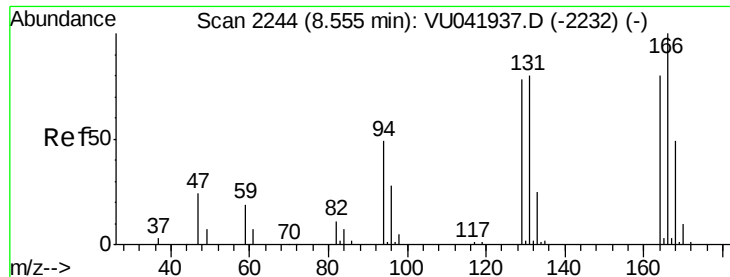
Tot Ion: 75 Resp: 1089
 Ion Ratio Lower Upper
 75 100
 77 53.1 21.5 39.9#



#44
 trans-1,3-Dichloropropene
 Concen: 0.065 ug/L
 RT: 8.18 min Scan# 2128
 Delta R.T. -0.03 min
 Lab File: VU041945.D
 Acq: 12 Jan 2021 01:24

Tgt Ion: 75 Resp: 749
 Ion Ratio Lower Upper
 75 100
 77 45.3 23.7 44.1#

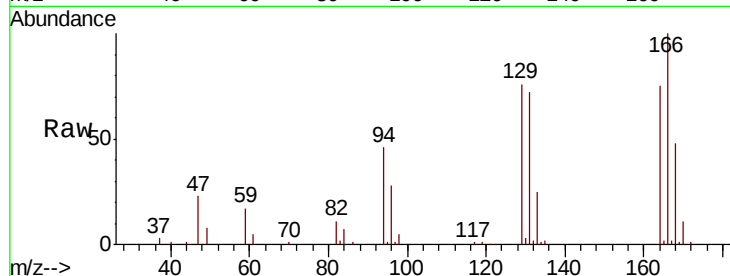




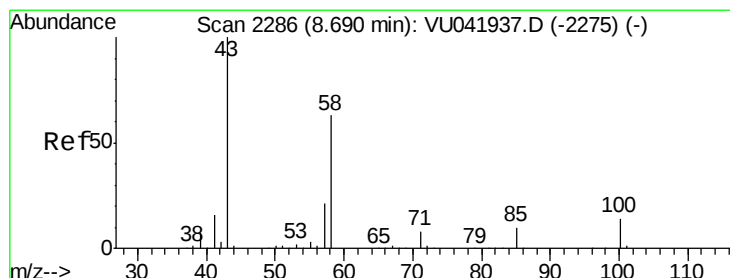
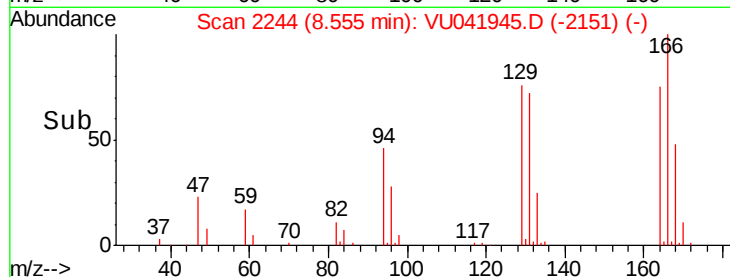
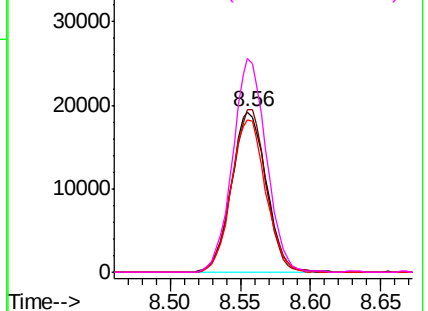
#47
Tetrachloroethene
Concen: 5.192 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Instrument :
MSVOA_U
ClientSampleId :
C0AQ5DL

Tot Ion:164 Resp: 33358
Ion Ratio Lower Upper
164 100
129 101.3 69.2 128.6
131 95.3 69.7 129.5
166 133.0 89.2 165.8

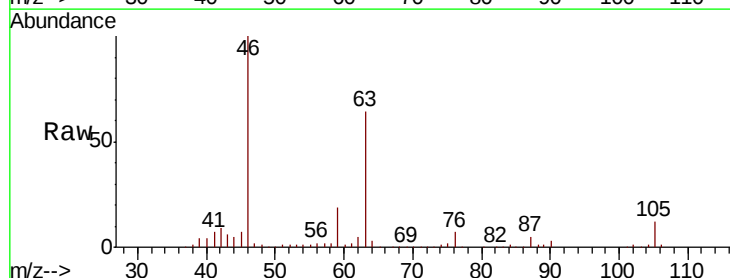


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

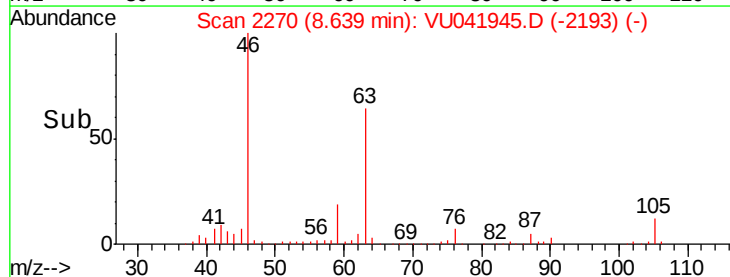
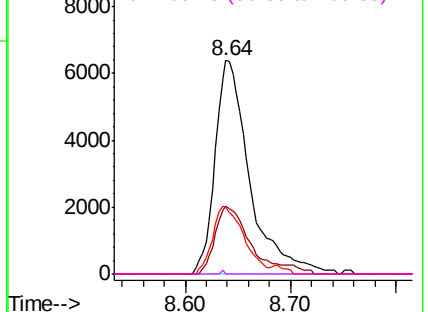


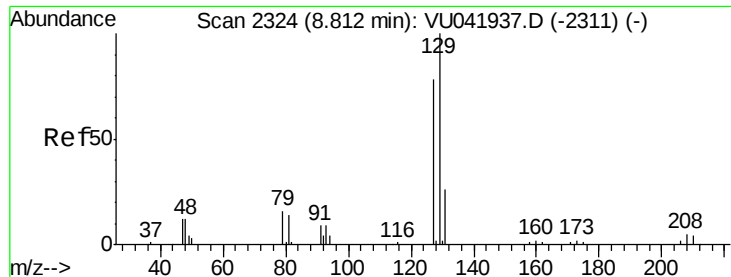
#48
2-Hexanone
Concen: 3.556 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041945.D
Acq: 12 Jan 2021 01:24

Tgt Ion: 43 Resp: 14600
Ion Ratio Lower Upper
43 100
58 30.9 47.6 71.4#
57 28.4 17.1 25.7#
100 0.1 10.4 15.6#



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: 4.028 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041945.D

Acq: 12 Jan 2021 01:24

Instrument :

MSVOA_U

ClientSampleId :

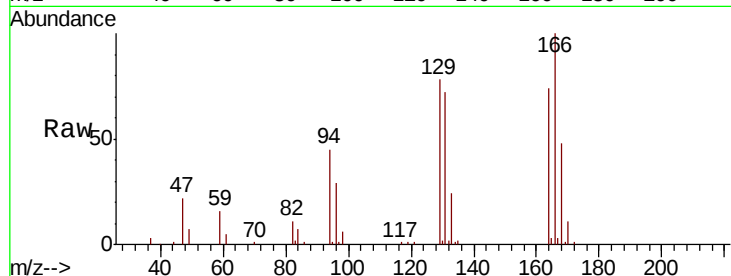
C0AQ5DL

Tot Ion:129 Resp: 32964

Ion Ratio Lower Upper

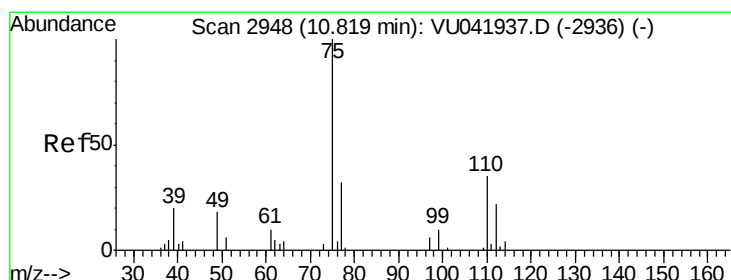
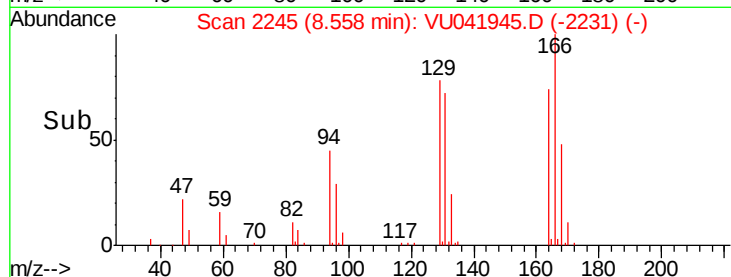
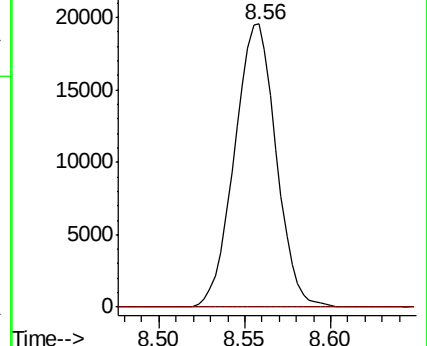
129 100

127 0.0 54.9 101.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.781 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041945.D

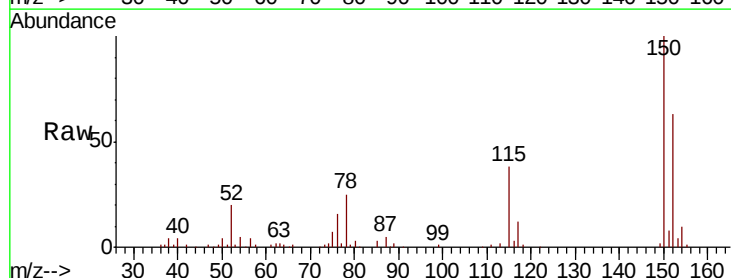
Acq: 12 Jan 2021 01:24

Tgt Ion: 75 Resp: 5007

Ion Ratio Lower Upper

75 100

77 29.9 27.0 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

