

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041905.D
 Acq On : 08 Jan 2021 15:12
 Operator : SY/MD
 Sample : M1049-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:35:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	115946	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	111883	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	46708	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	35961	3.97	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.40%
7) Chloroethane-d5	1.92	69	39011	5.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	111.20%
11) 1,1-Dichloroethene-d2	2.57	63	51697	3.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.00%
20) 2-Butanone-d5	4.66	46	154394	59.30	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.60%
24) Chloroform-d	5.08	84	86732	5.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.60%
26) 1,2-Dichloroethane-d4	5.72	65	50396	5.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.40%
32) Benzene-d6	5.74	84	157913	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
36) 1,2-Dichloropropane-d6	6.70	67	53756	5.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.00%
41) Toluene-d8	7.90	98	121900	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.40%
43) trans-1,3-Dichloropropene-	8.19	79	19672	4.36	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.20%
46) 2-Hexanone-d5	8.64	63	134795	54.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.18%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	50065	5.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	49102	5.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.20%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	686	0.072 ug/L #	78
9) Trichlorofluoromethane	2.15	101	186096	13.953 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	613	0.077 ug/L #	22
16) Methylene chloride	3.06	84	1847	0.197 ug/L #	76
21) 2-Butanone	4.83	43	74703	27.691 ug/L #	45
22) cis-1,2-Dichloroethene	4.69	96	3574	0.397 ug/L	76
25) Chloroform	5.11	83	4099	0.268 ug/L	94
27) 1,2-Dichloroethane	5.74	62	770	0.074 ug/L #	73
31) Carbon tetrachloride	5.54	117	3752	0.338 ug/L	90
33) Benzene	5.79	78	1278	0.036 ug/L	100
34) Trichloroethene	6.55	95	56404	6.273 ug/L	95
35) Methylcyclohexane	6.70	83	12459	0.857 ug/L #	18
37) 1,2-Dichloropropane	6.70	63	5562	0.608 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1150	0.085 ug/L #	22
42) Toluene	7.97	91	1921	0.052 ug/L	93
44) trans-1,3-Dichloropropene	8.19	75	685	0.056 ug/L	87
45) 1,1,2-Trichloroethane	8.41	97	1361	0.201 ug/L #	66

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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 09 01:35:00 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 09 01:31:59 2021
Response via : Initial Calibration

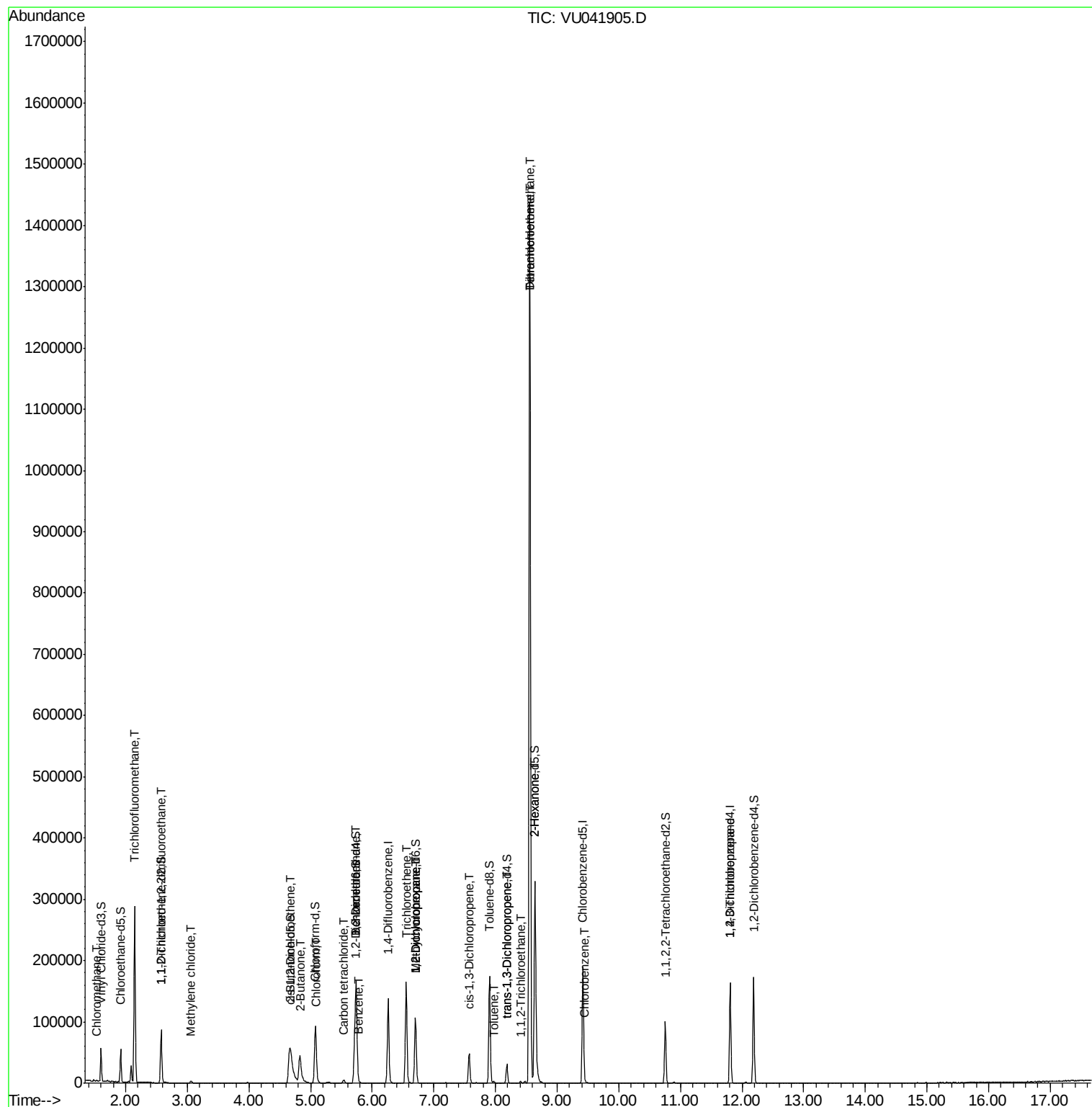
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	336222	53.417	ug/L	96
48) 2-Hexanone	8.64	43	14687	3.099	ug/L #	64
49) Dibromochloromethane	8.56	129	315535	40.586	ug/L #	10
51) Chlorobenzene	9.45	112	1208	0.053	ug/L #	85
59) 1,2,3-Trichloropropane	11.81	75	4203	0.611	ug/L	93

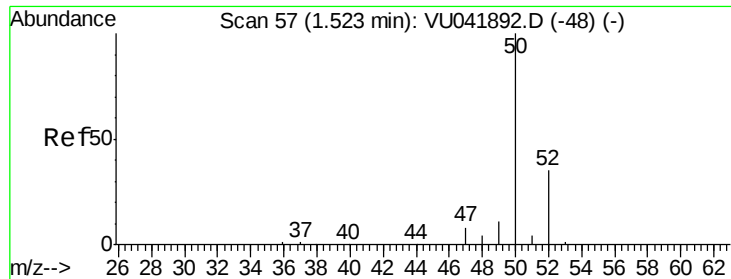
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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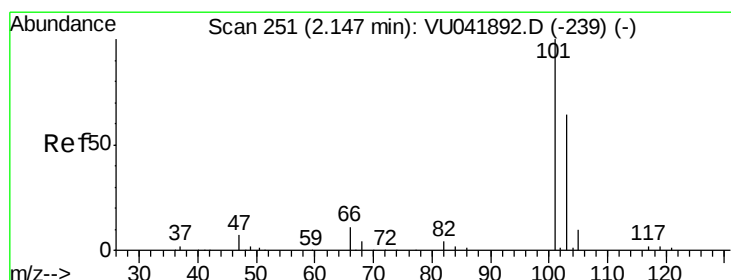
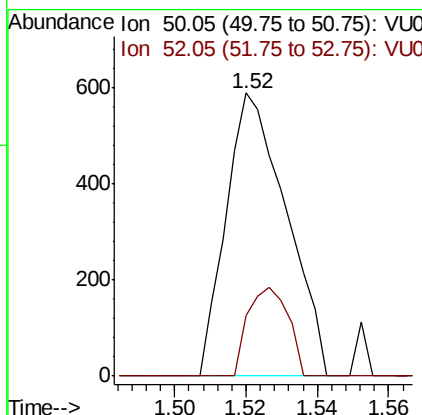
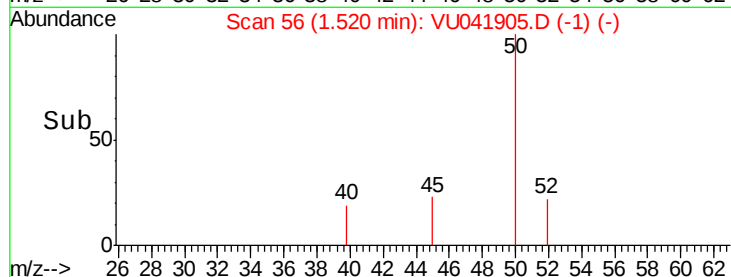
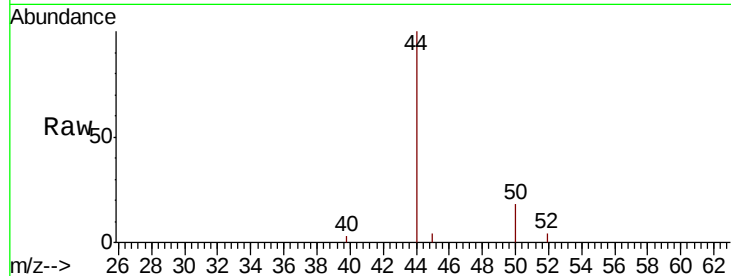




#3
 Chloromethane
 Concen: 0.072 ug/L
 RT: 1.52 min Scan# 56
 Delta R.T. -0.00 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

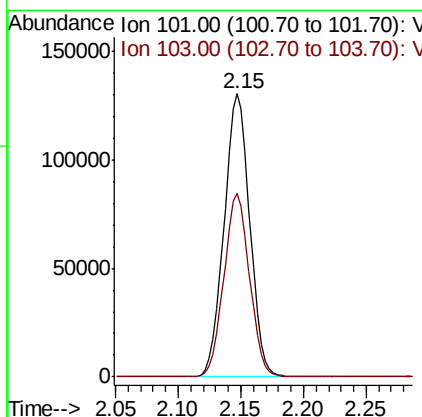
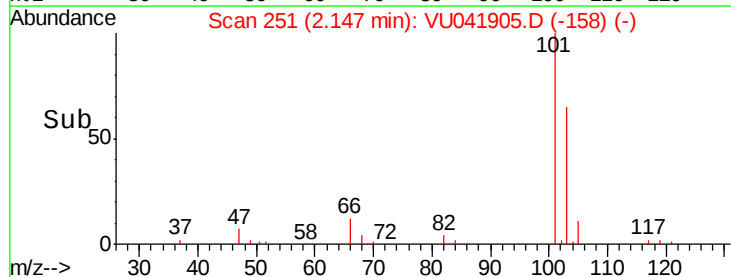
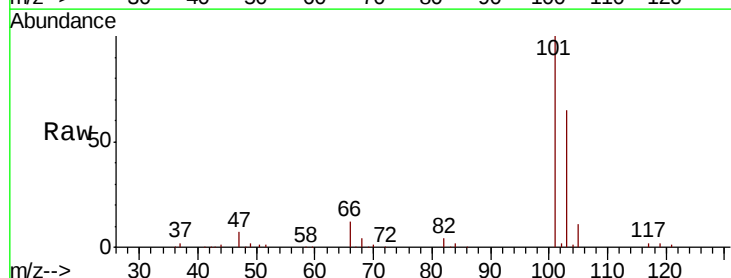
Instrument :
 MSVOA_U
 ClientSampleId :

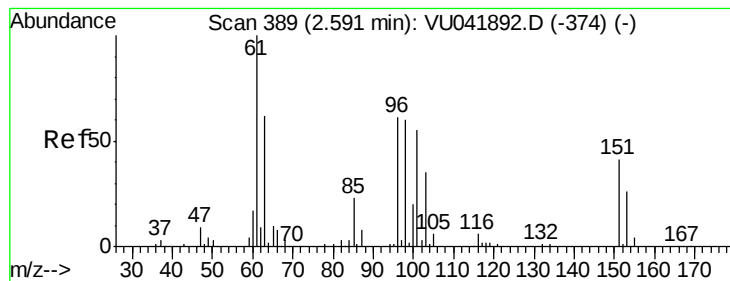
Tot Ion: 50 Resp: 686
 Ion Ratio Lower Upper
 50 100
 52 21.6 24.1 44.8#



#9
 Trichlorofluoromethane
 Concen: 13.953 ug/L
 RT: 2.15 min Scan# 251
 Delta R.T. -0.00 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

Tgt Ion:101 Resp: 186096
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.1 76.7





#10

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

Concen: 0.077 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041905.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_U

ClientSampleId :

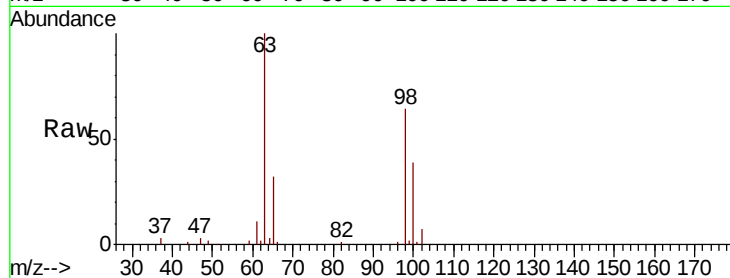
Tot Ion:101 Resp: 613

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

151 0.0 56.2 84.4#



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

500

400

300

200

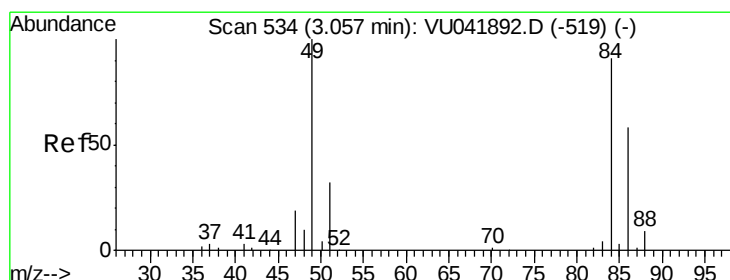
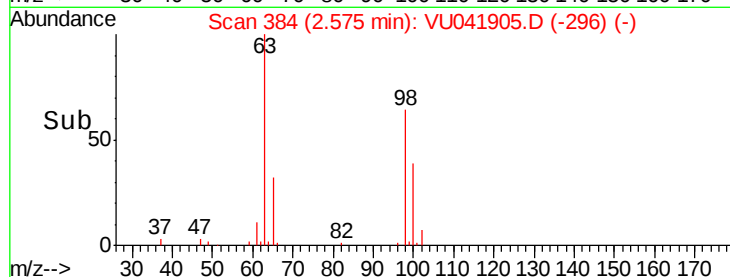
100

0

2.54 2.56 2.58 2.60

2.57

Time-->



#16

Methylene chloride

Concen: 0.197 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041905.D

Acq: 08 Jan 2021 15:12

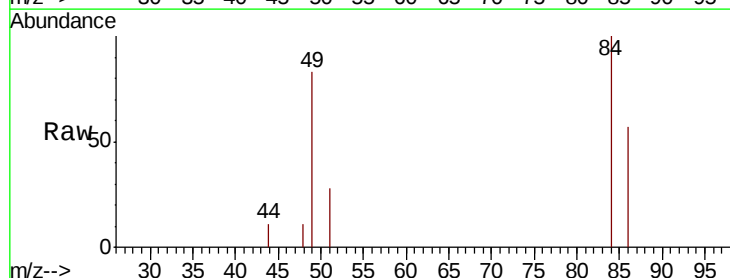
Tgt Ion: 84 Resp: 1847

Ion Ratio Lower Upper

84 100

86 57.1 45.1 83.7

49 82.7 83.1 154.3#



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

1500

1000

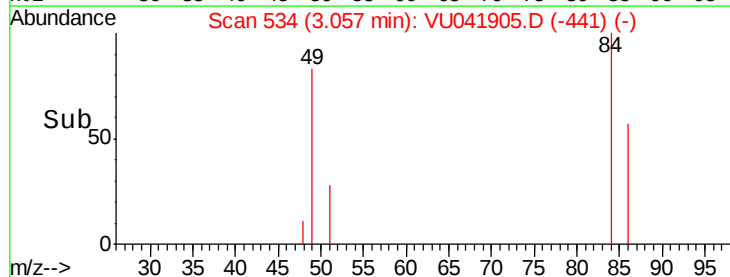
500

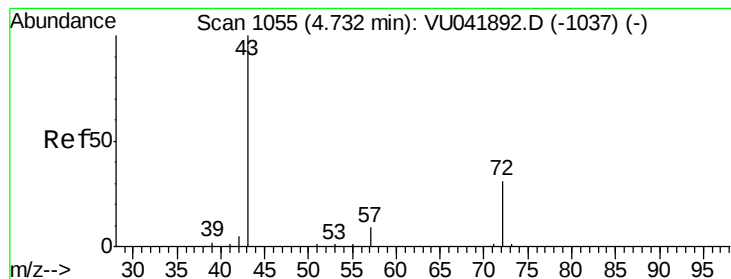
0

3.00 3.05 3.10

3.06

Time-->





#21

2-Butanone

Concen: 27.691 ug/L

RT: 4.83 min Scan# 1085

Delta R.T. 0.10 min

Lab File: VU041905.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_U

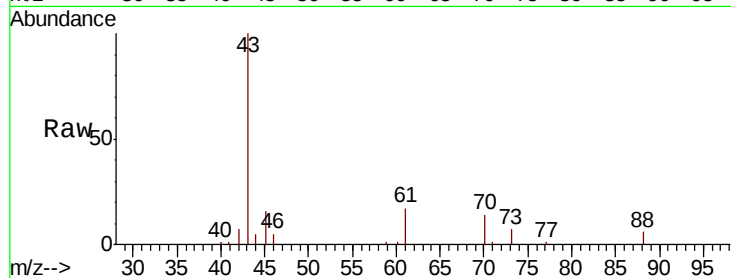
ClientSampled :

Tot Ion: 43 Resp: 74703

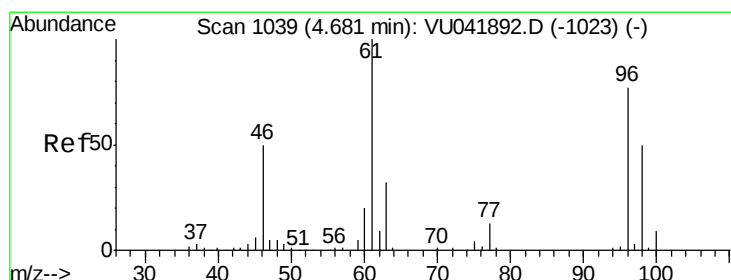
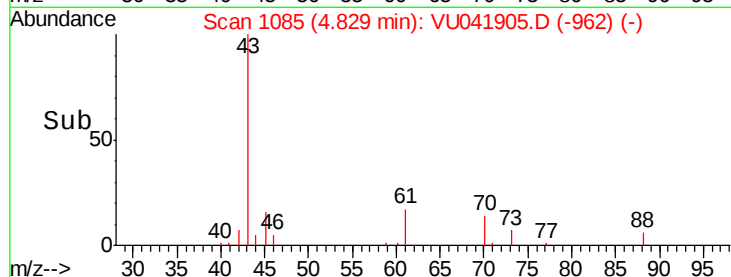
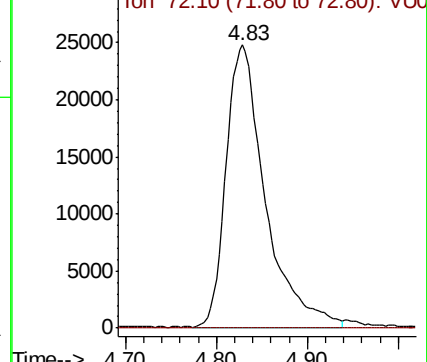
Ion Ratio Lower Upper

43 100

72 0.0 14.6 44.0#



Abundance Ion 43.05 (42.75 to 43.75): VU041892.D (-1037) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.397 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041905.D

Acq: 08 Jan 2021 15:12

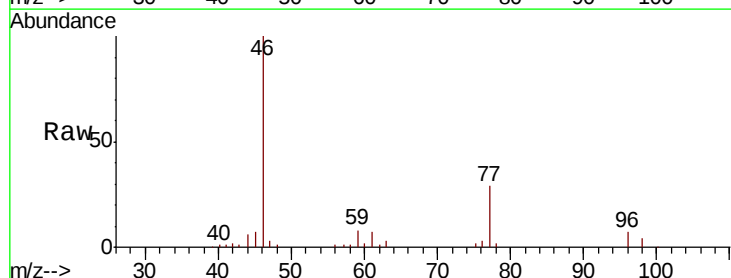
Tgt Ion: 96 Resp: 3574

Ion Ratio Lower Upper

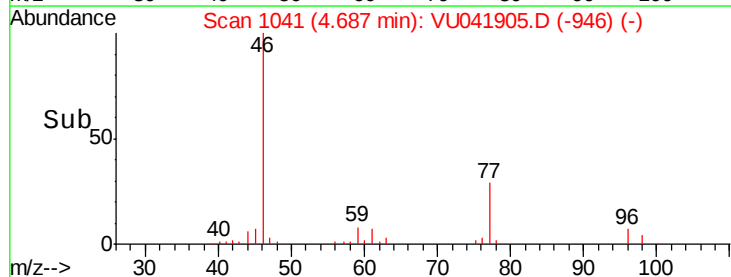
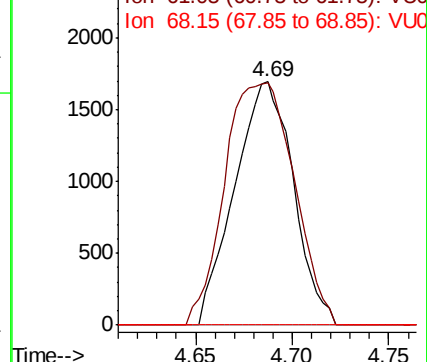
96 100

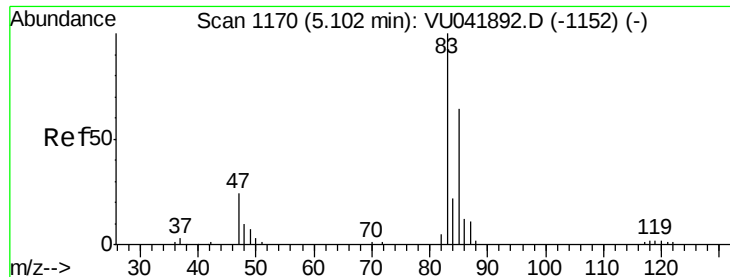
61 99.6 88.8 165.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041892.D (-1023) (-)

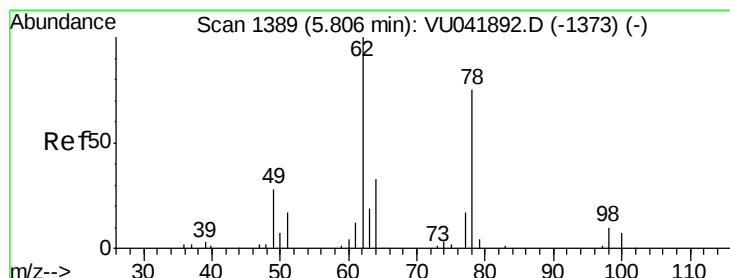
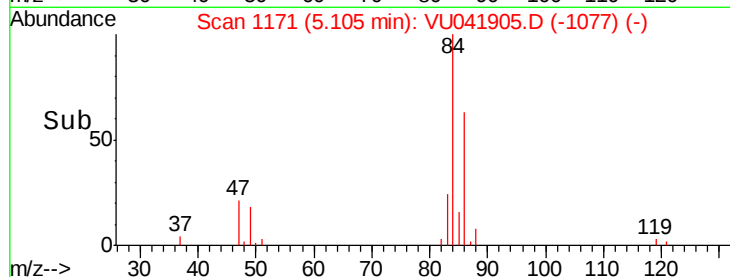
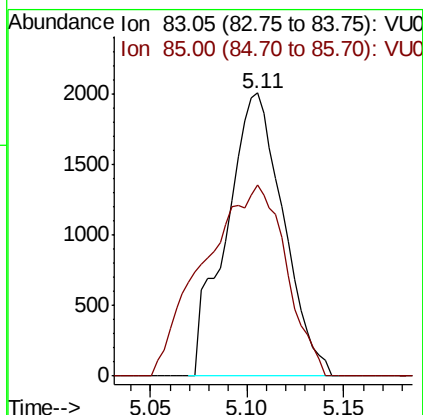
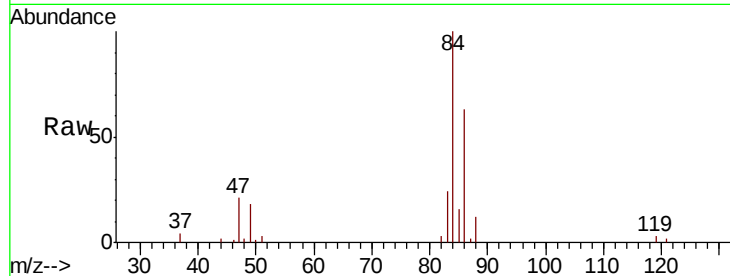




#25
Chloroform
Concen: 0.268 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

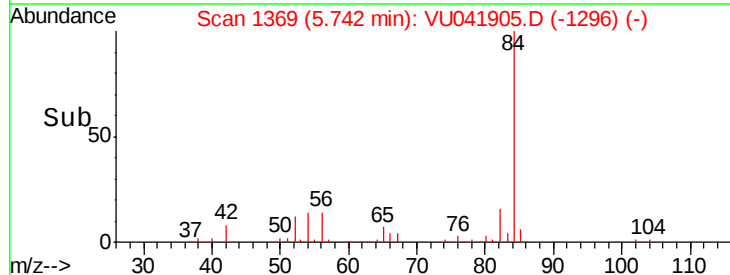
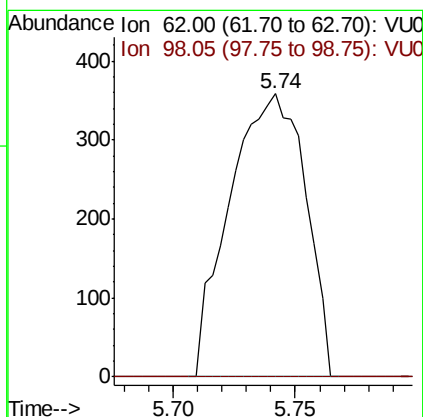
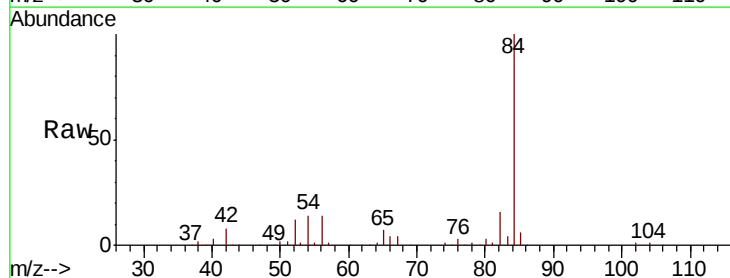
Instrument :
MSVOA_U
ClientSampleId :

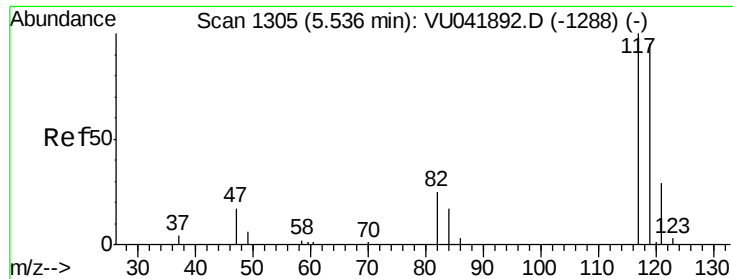
Tot Ion: 83 Resp: 4099
Ion Ratio Lower Upper
83 100
85 67.5 44.2 82.0



#27
1,2-Dichloroethane
Concen: 0.074 ug/L
RT: 5.74 min Scan# 1369
Delta R.T. -0.06 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Tgt Ion: 62 Resp: 770
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#

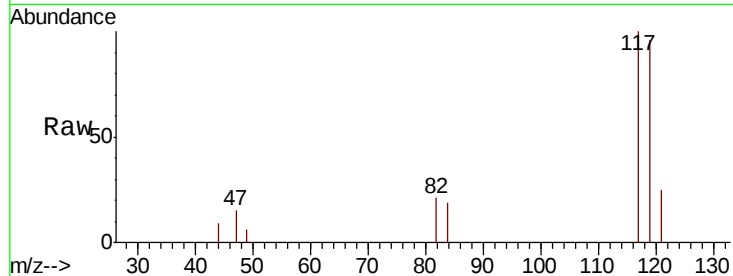




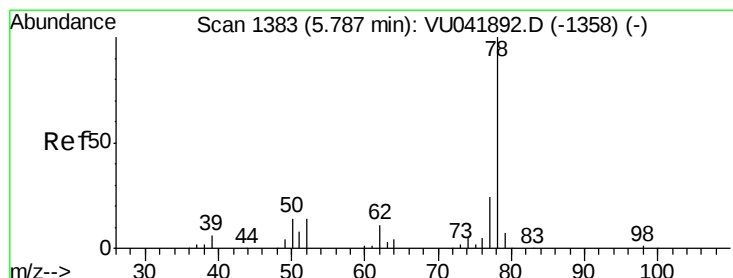
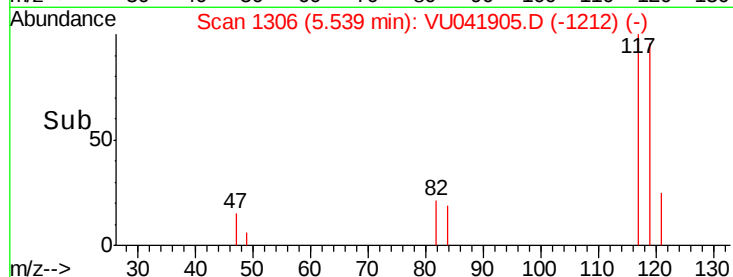
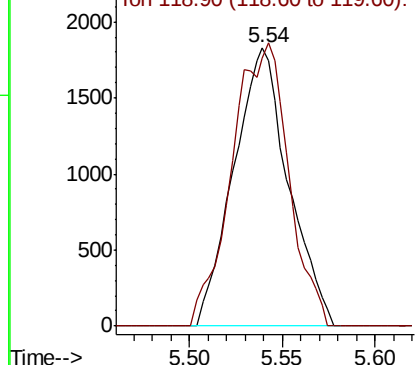
#31
Carbon tetrachloride
Concen: 0.338 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 3752
Ion Ratio Lower Upper
117 100
119 105.1 76.2 114.2

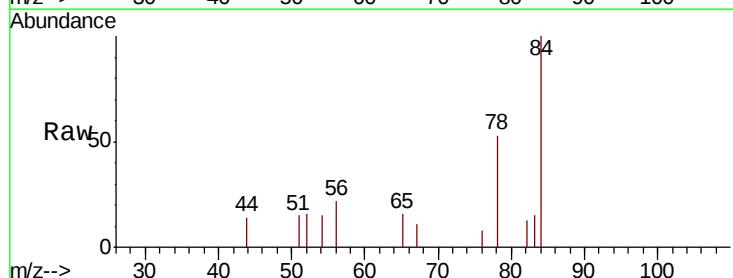


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

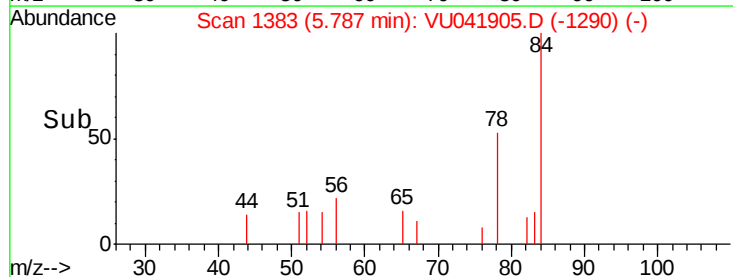
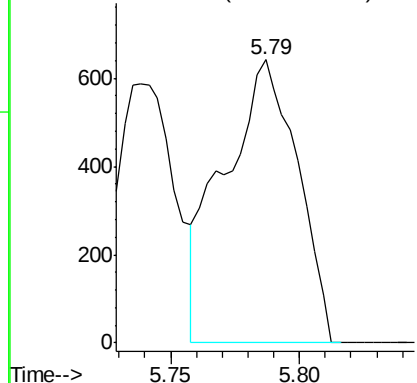


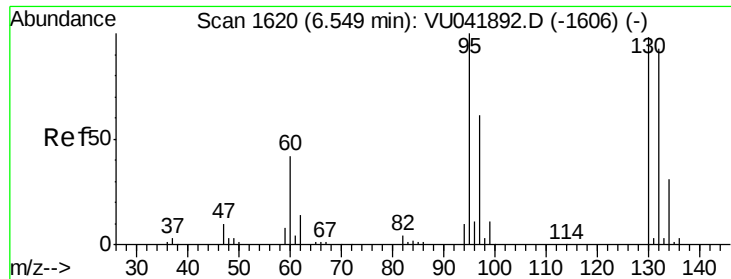
#33
Benzene
Concen: 0.036 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Tgt Ion: 78 Resp: 1278



Abundance Ion 78.10 (77.80 to 78.80): VU0

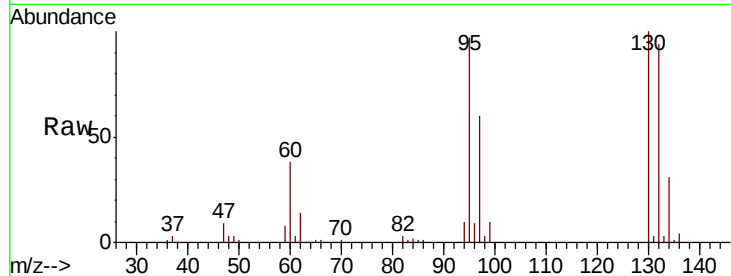




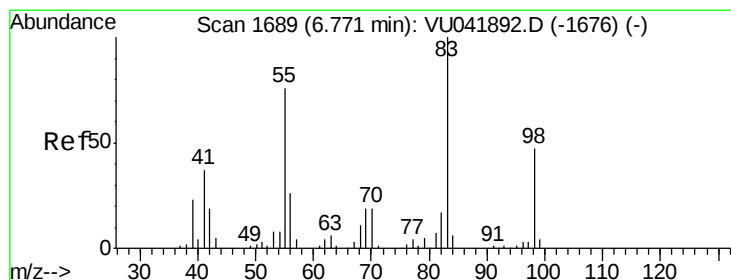
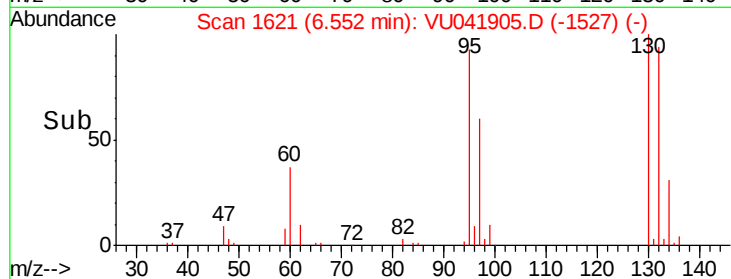
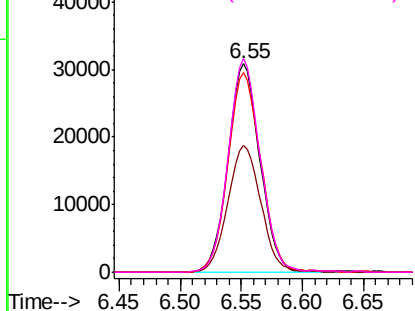
#34
 Trichloroethene
 Concen: 6.273 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

Instrument :
 MSVOA_U
 ClientSampleID :

Tot Ion: 95 Resp: 56404
 Ion Ratio Lower Upper
 95 100
 97 61.1 43.9 81.5
 132 96.3 63.1 117.3
 130 102.6 67.4 125.2

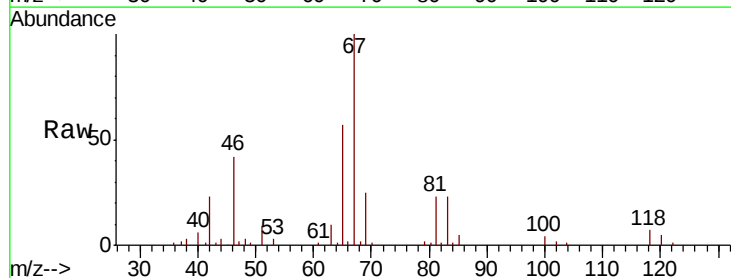


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

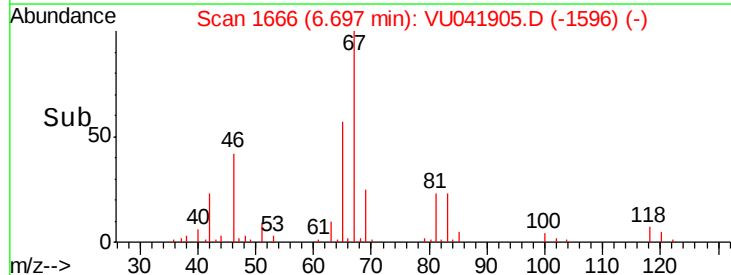
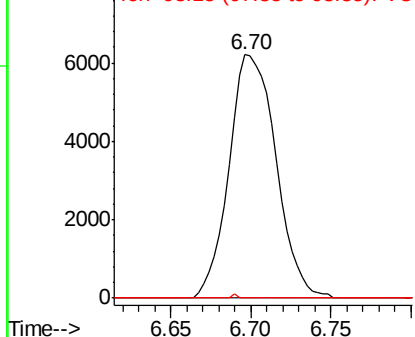


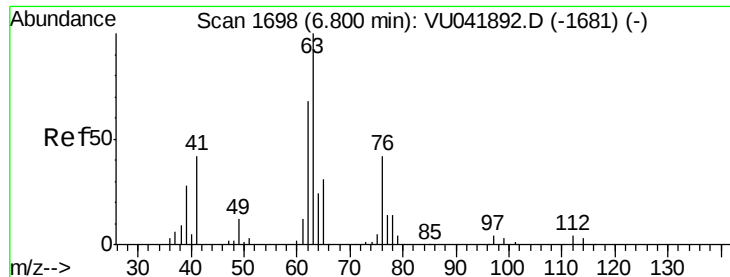
#35
 Methylcyclohexane
 Concen: 0.857 ug/L
 RT: 6.70 min Scan# 1666
 Delta R.T. -0.07 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

Tgt Ion: 83 Resp: 12459
 Ion Ratio Lower Upper
 83 100
 55 0.0 61.2 91.8#
 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

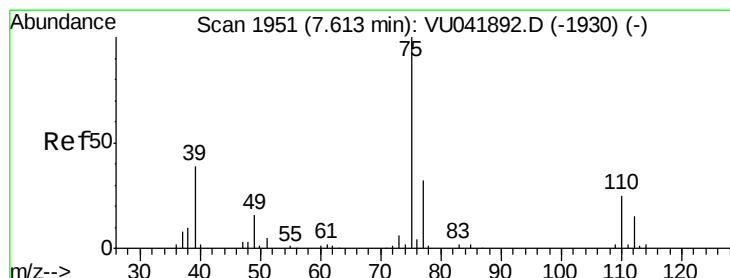
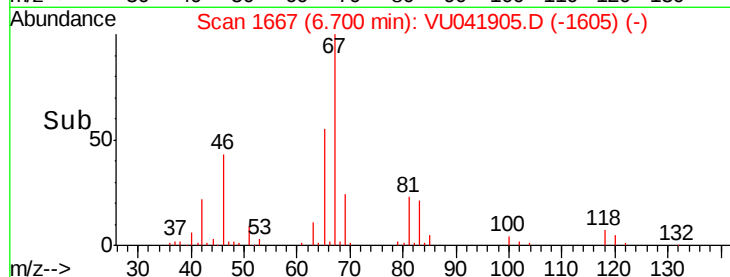
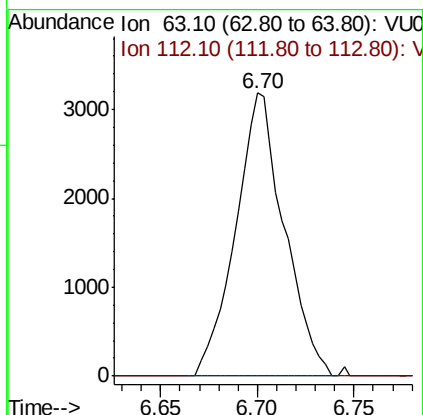
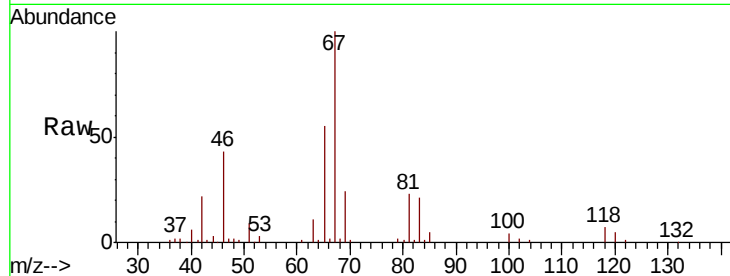




#37
 1,2-Dichloropropane
 Concen: 0.608 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

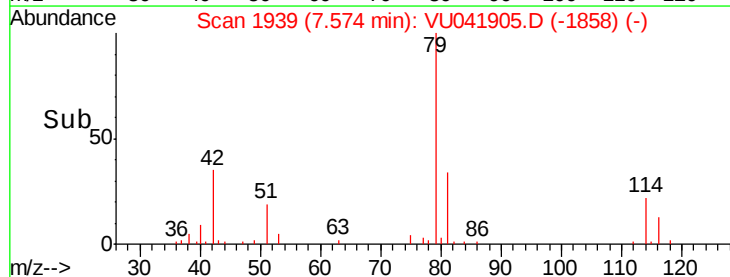
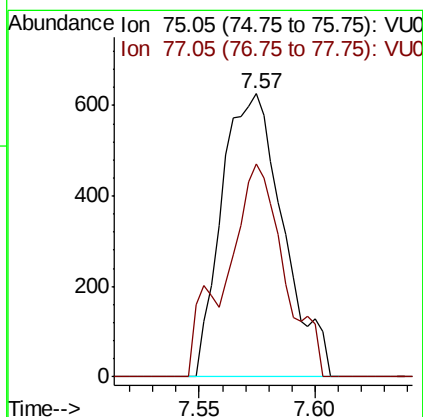
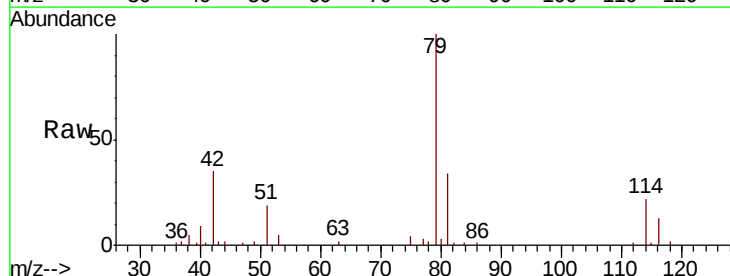
Instrument :
 MSVOA_U
 ClientSampled :

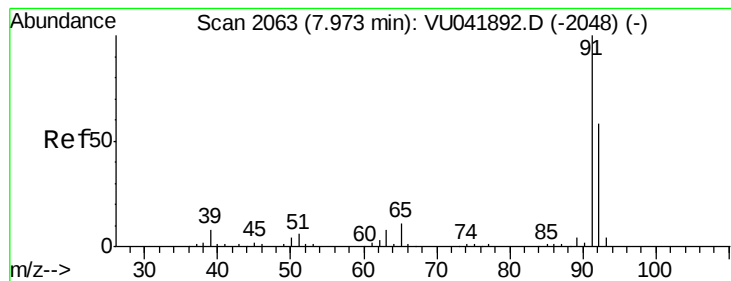
Tot Ion: 63 Resp: 5562
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.085 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

Tgt Ion: 75 Resp: 1150
 Ion Ratio Lower Upper
 75 100
 77 75.1 22.3 41.3#





#42

Toluene

Concen: 0.052 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041905.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_U

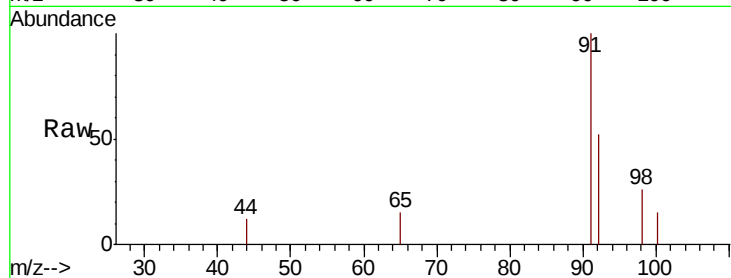
ClientSampleId :

Tot Ion: 91 Resp: 1921

Ion Ratio Lower Upper

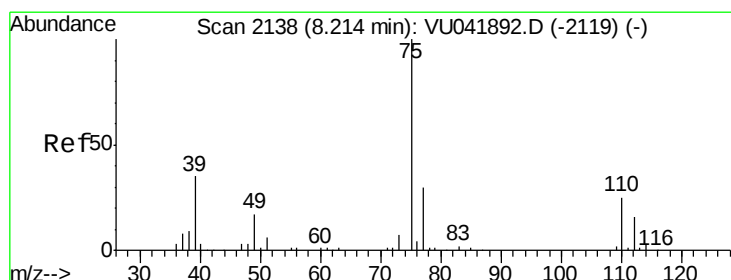
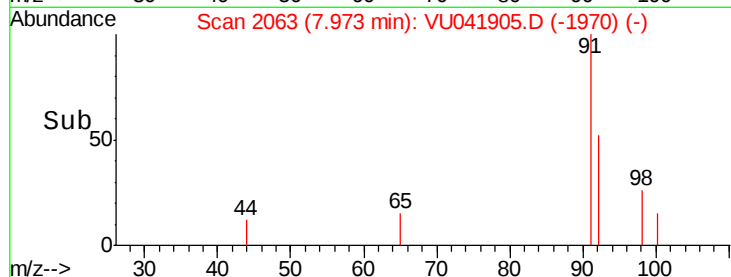
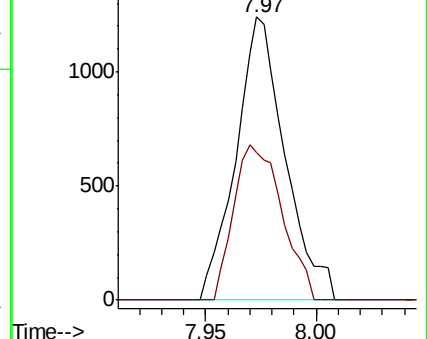
91 100

92 52.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041892.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU041892.D (-2048) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.056 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041905.D

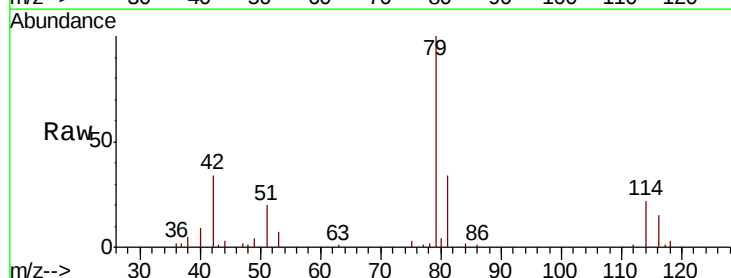
Acq: 08 Jan 2021 15:12

Tgt Ion: 75 Resp: 685

Ion Ratio Lower Upper

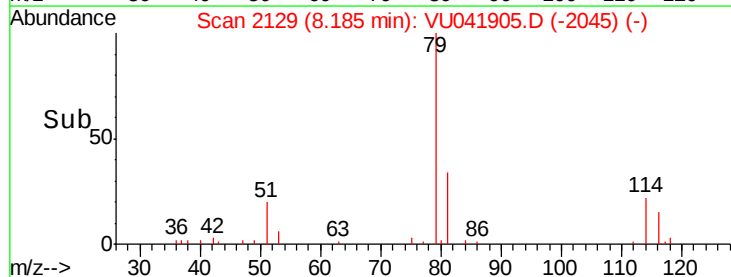
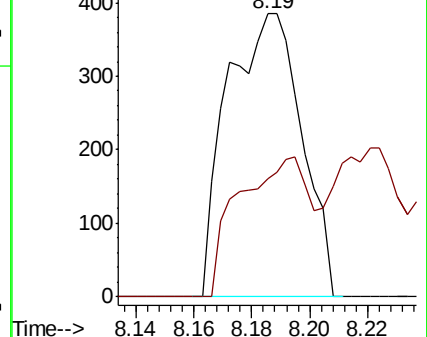
75 100

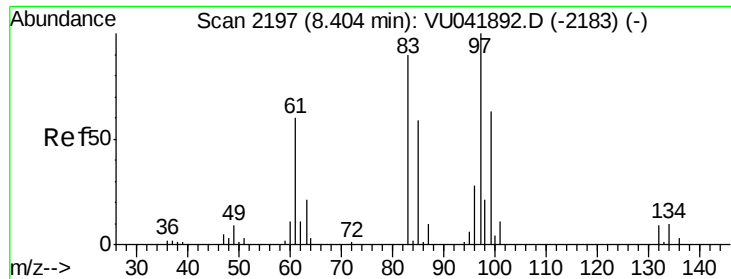
77 41.6 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU041892.D (-2119) (-)

Ion 77.05 (76.75 to 77.75): VU041892.D (-2119) (-)

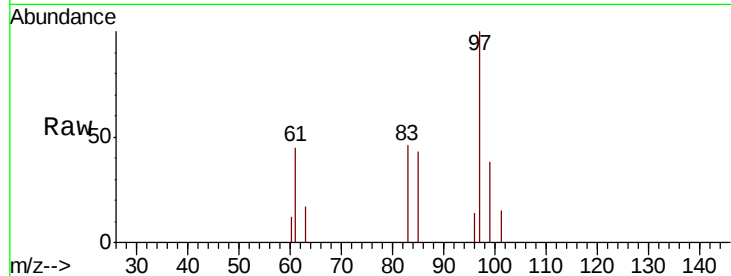




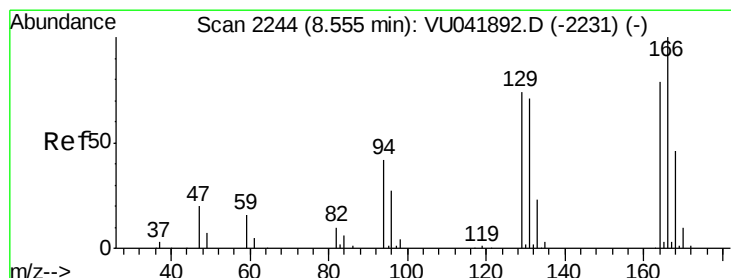
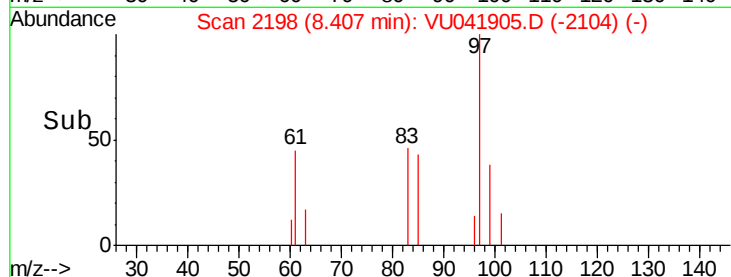
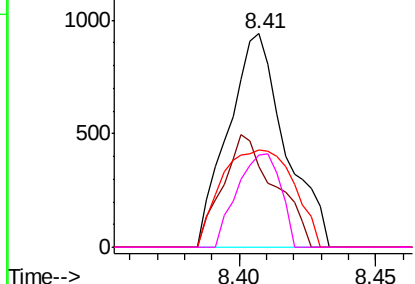
#45
 1,1,2-Trichloroethane
 Concen: 0.201 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 1361
 Ion Ratio Lower Upper
 97 100
 99 37.5 42.1 78.3#
 83 45.6 62.6 116.2#
 85 43.3 39.1 72.7

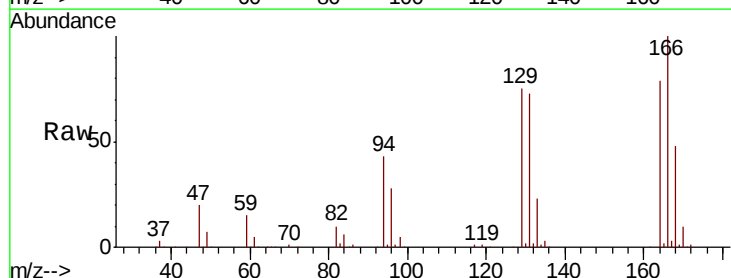


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

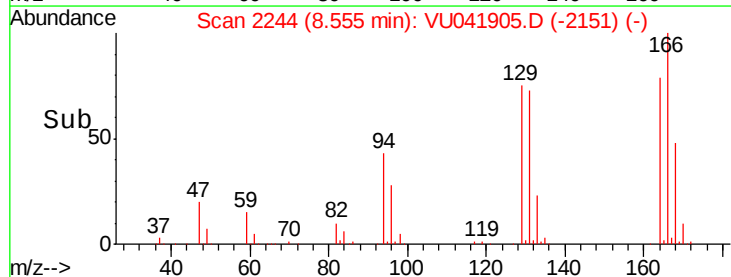
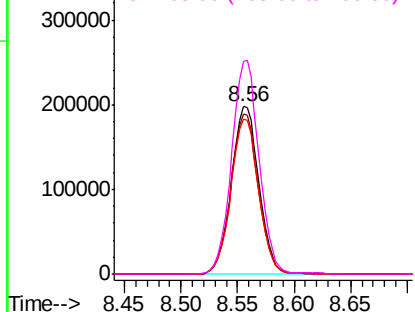


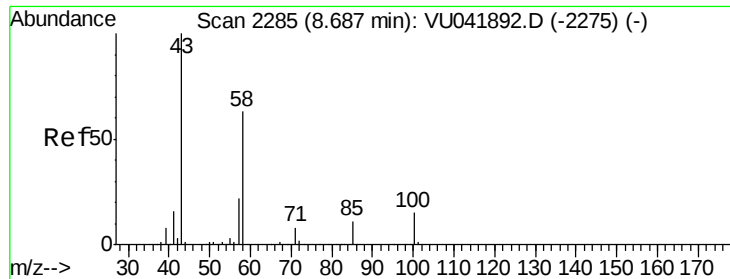
#47
 Tetrachloroethene
 Concen: 53.417 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU041905.D
 Acq: 08 Jan 2021 15:12

Tgt Ion:164 Resp: 336222
 Ion Ratio Lower Upper
 164 100
 129 95.5 72.2 134.0
 131 92.9 66.9 124.3
 166 127.0 89.6 166.4



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

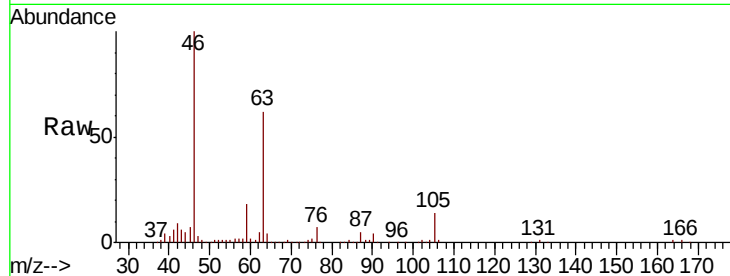




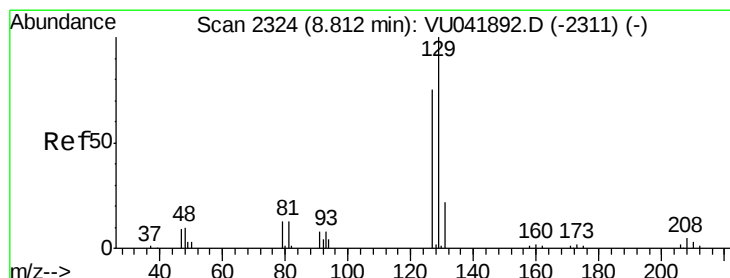
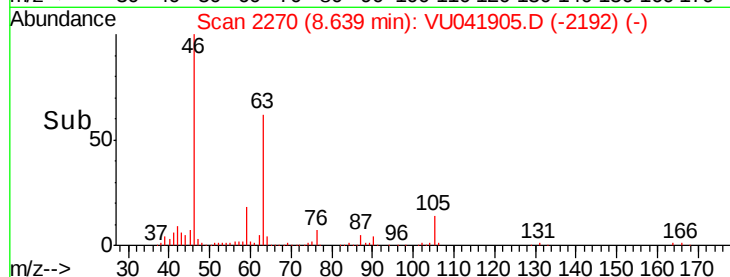
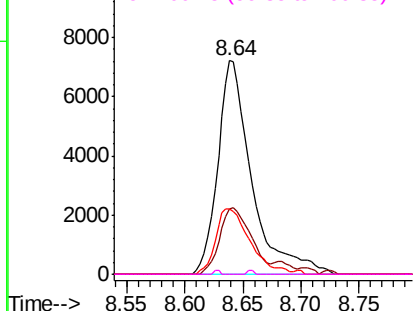
#48
2-Hexanone
Concen: 3.099 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 14687
Ion Ratio Lower Upper
43 100
58 28.6 47.9 71.9#
57 31.3 16.5 24.7#
100 0.3 9.4 14.2#

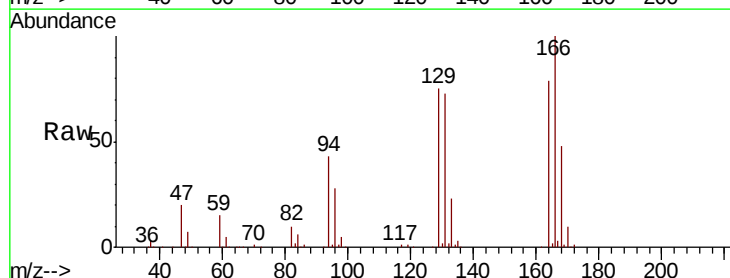


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

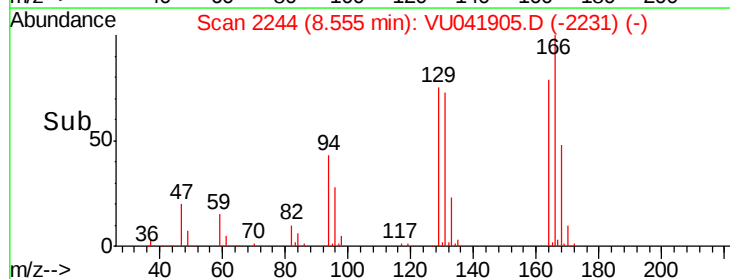
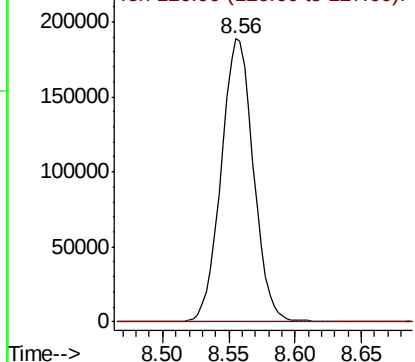


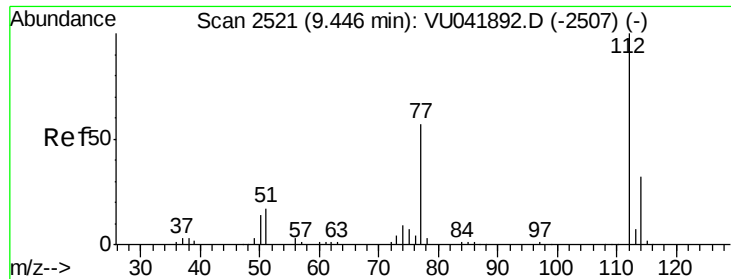
#49
Dibromochloromethane
Concen: 40.586 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Tgt Ion: 129 Resp: 315535
Ion Ratio Lower Upper
129 100
127 0.1 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

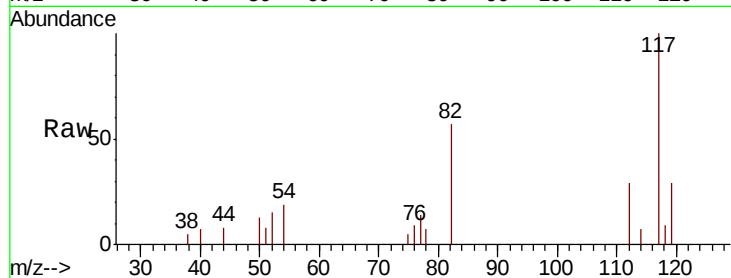




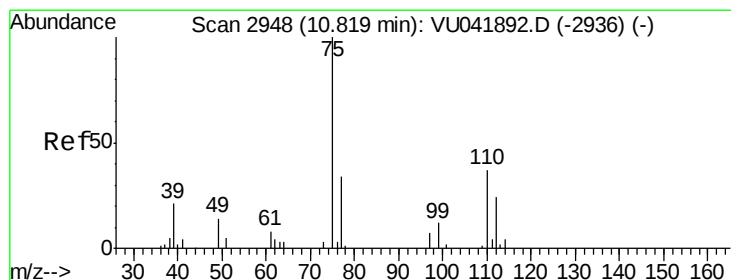
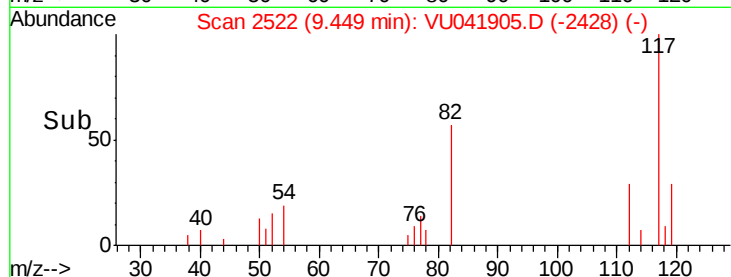
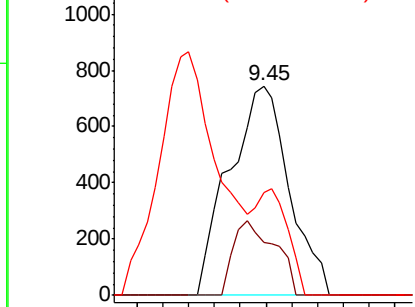
#51
Chlorobenzene
Concen: 0.053 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:112 Resp: 1208
Ion Ratio Lower Upper
112 100
114 25.2 22.7 42.3
77 49.0 49.1 73.7#

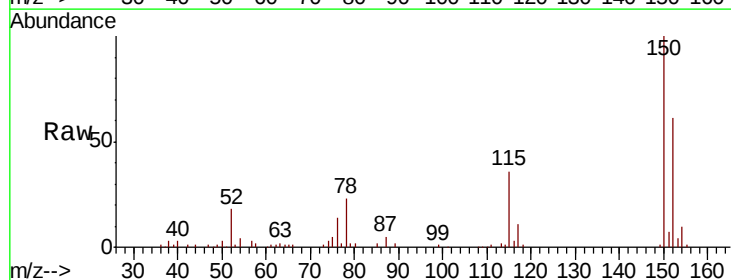


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU0



#59
1,2,3-Trichloropropane
Concen: 0.611 ug/L
RT: 11.81 min Scan# 3255
Delta R.T. 0.99 min
Lab File: VU041905.D
Acq: 08 Jan 2021 15:12

Tgt Ion: 75 Resp: 4203
Ion Ratio Lower Upper
75 100
77 36.5 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

