

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121420\
 Data File : VU041611.D
 Acq On : 14 Dec 2020 14:31
 Operator : SY/MD
 Sample : L5029-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 15 00:49:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 15 00:46:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	139483	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	140191	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	67126	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	45613	4.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.60%
7) Chloroethane-d5	1.92	69	37839	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.58	63	66558	3.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.20%
20) 2-Butanone-d5	4.65	46	146757	46.85	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.70%
24) Chloroform-d	5.08	84	83666	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
26) 1,2-Dichloroethane-d4	5.72	65	48970	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
32) Benzene-d6	5.74	84	169788	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
36) 1,2-Dichloropropane-d6	6.70	67	53671	4.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.20%
41) Toluene-d8	7.90	98	148460	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.00%
43) trans-1,3-Dichloropropene-	8.18	79	23432	4.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.80%
46) 2-Hexanone-d5	8.64	63	135379	43.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.52%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48260	4.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	55788	4.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.40%

Target Compounds

				Ovalue
8) Chloroethane	1.94	64	426	0.049 ug/L # 44
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	548	0.057 ug/L # 22
12) 1,1-Dichloroethene	2.58	96	551	0.058 ug/L # 1
13) Acetone	2.66	43	6487	3.256 ug/L 97
21) 2-Butanone	4.73	43	4462	1.375 ug/L 92
22) cis-1,2-Dichloroethene	4.68	96	10864	1.004 ug/L 99
25) Chloroform	5.11	83	1453	0.079 ug/L 99
27) 1,2-Dichloroethane	5.74	62	1059	0.085 ug/L # 73
33) Benzene	5.79	78	2784	0.062 ug/L 100
34) Trichloroethene	6.55	95	44632	3.961 ug/L 97
35) Methylcyclohexane	6.70	83	12697	0.697 ug/L # 18
37) 1,2-Dichloropropane	6.70	63	5228	0.456 ug/L # 88
38) Bromodichloromethane	7.11	83	898	0.063 ug/L # 89
39) cis-1,3-Dichloropropene	7.57	75	1426	0.084 ug/L # 64
44) trans-1,3-Dichloropropene	8.18	75	925	0.061 ug/L # 68
45) 1,1,2-Trichloroethane	8.56	97	5869	0.692 ug/L # 1
47) Tetrachloroethene	8.56	164	664937	84.309 ug/L 98

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ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 15 00:49:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 15 00:46:25 2020
Response via : Initial Calibration

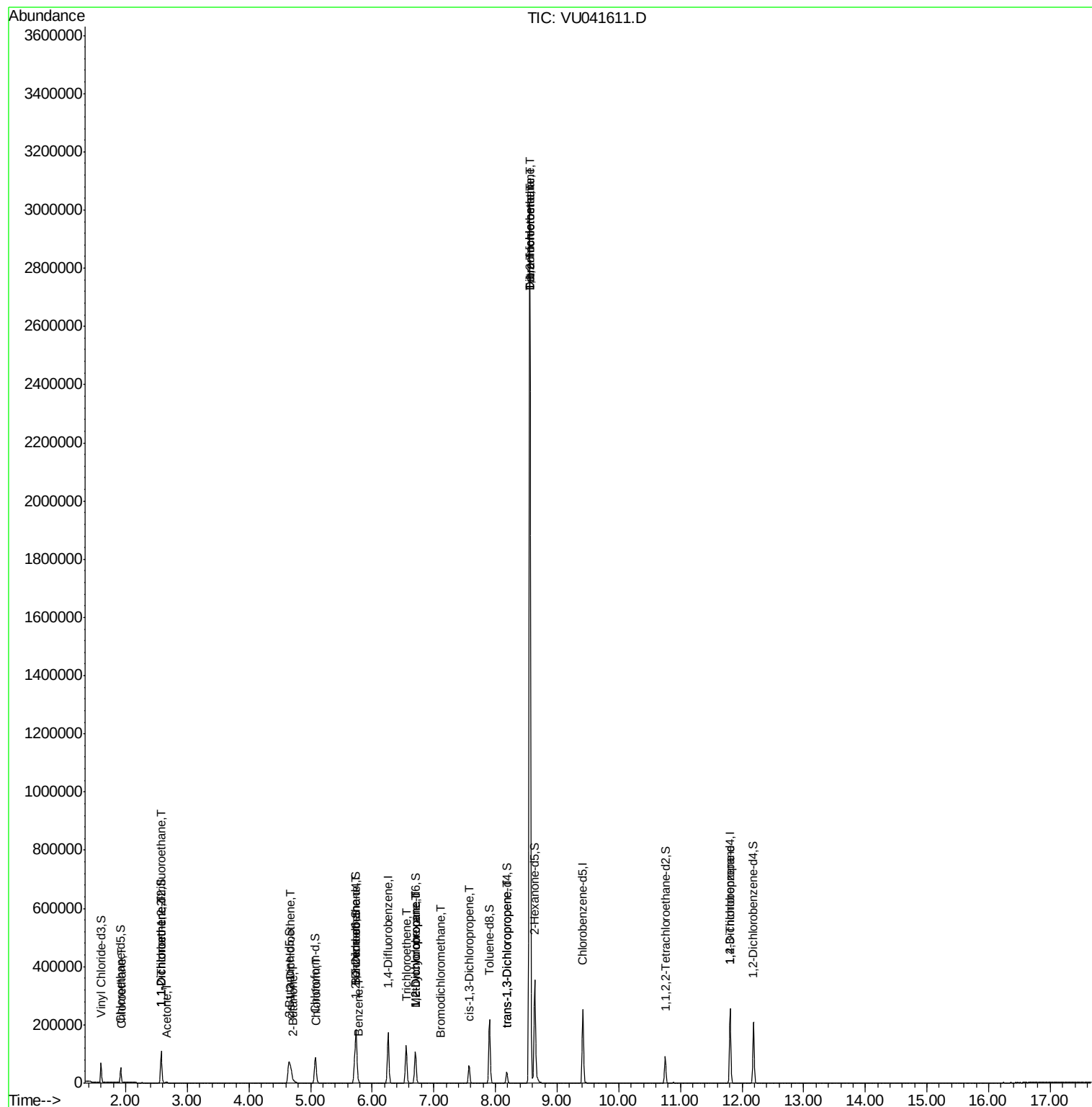
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	652311	66.961	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	7965	0.925	ug/L	94

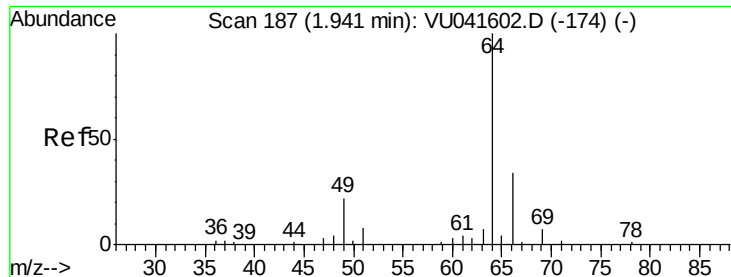
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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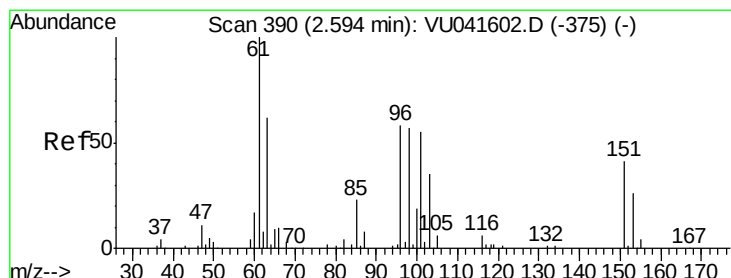
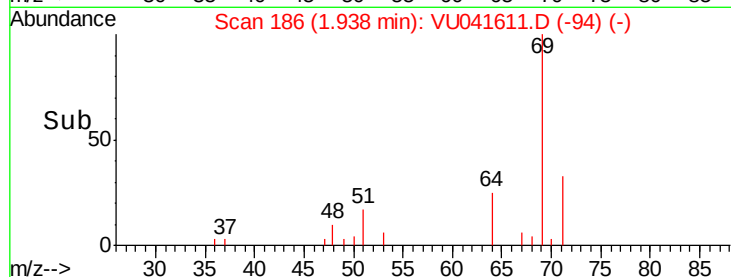
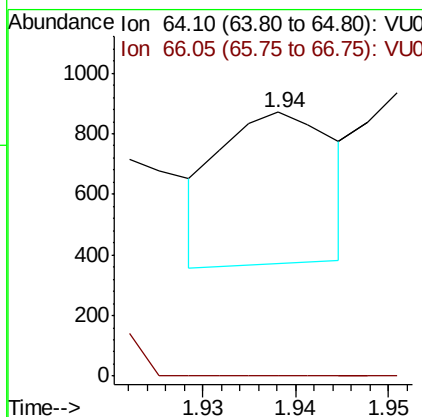
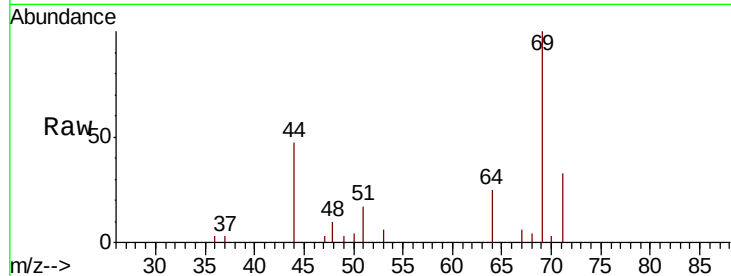




#8
Chloroethane
Concen: 0.049 ug/L
RT: 1.94 min Scan# 186
Delta R.T. -0.00 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

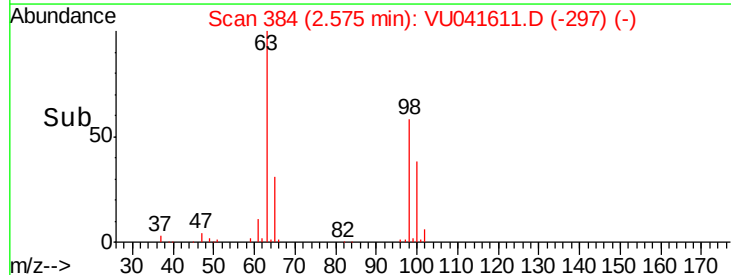
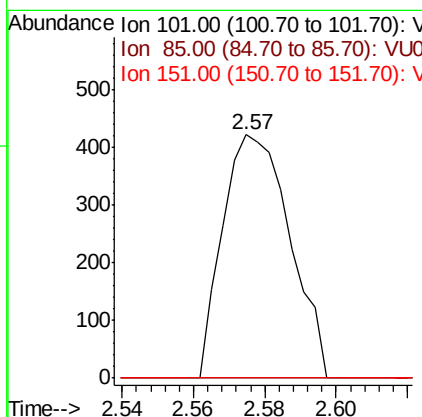
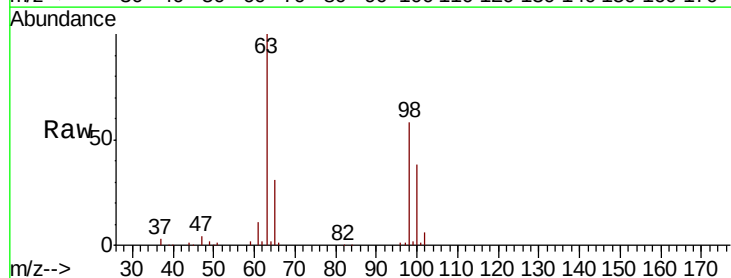
Instrument :
MSVOA_U
ClientSampleId :

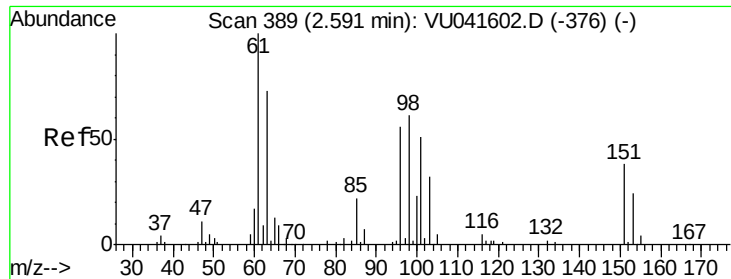
Tot Ion: 64 Resp: 426
Ion Ratio Lower Upper
64 100
66 0.0 21.6 40.0#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.057 ug/L
RT: 2.57 min Scan# 384
Delta R.T. -0.02 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Tgt Ion: 101 Resp: 548
Ion Ratio Lower Upper
101 100
85 0.0 33.6 50.4#
151 0.0 56.2 84.4#

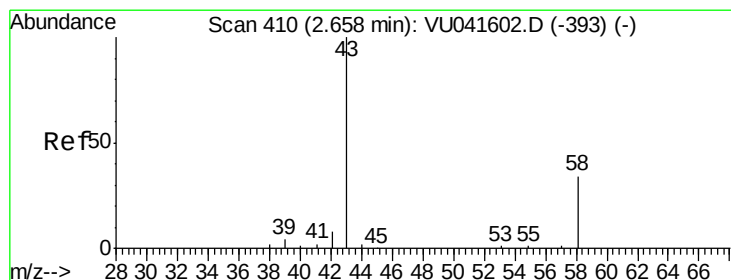
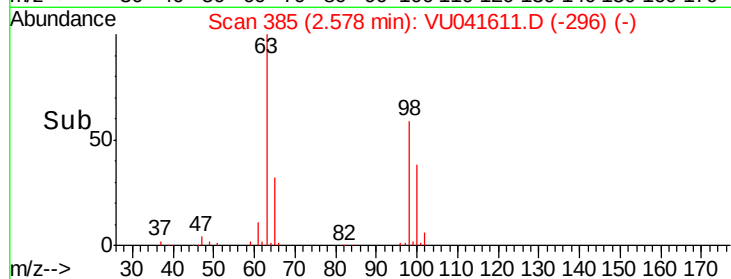
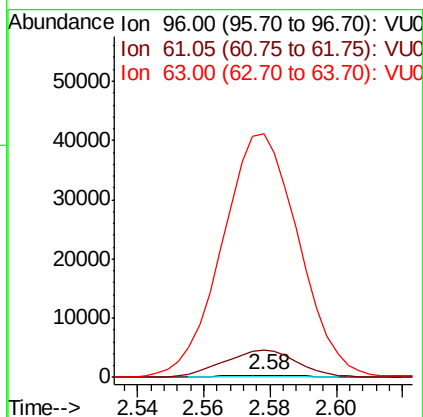
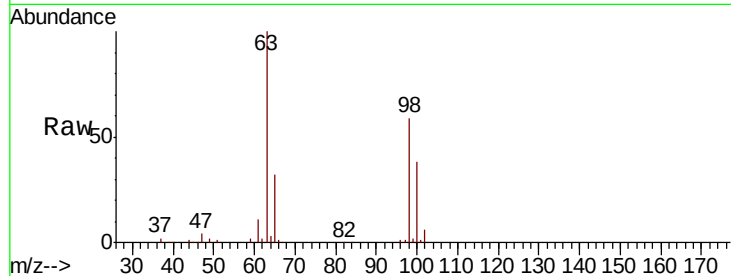




#12
 1,1-Dichloroethene
 Concen: 0.058 ug/L
 RT: 2.58 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: VU041611.D
 Acq: 14 Dec 2020 14:31

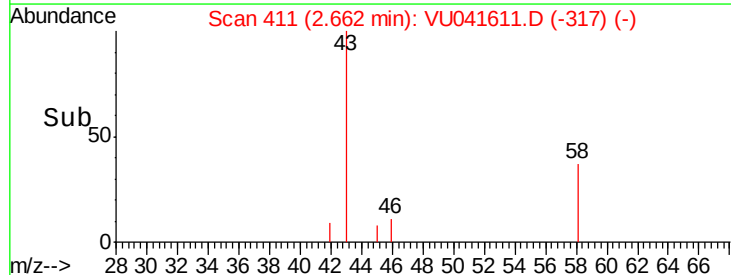
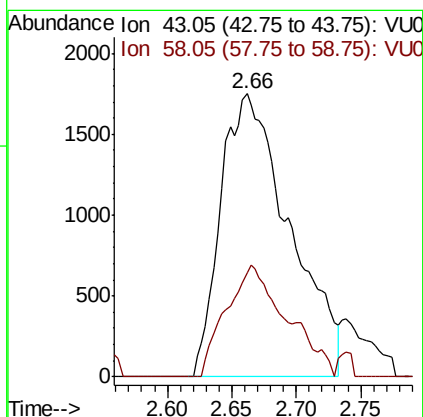
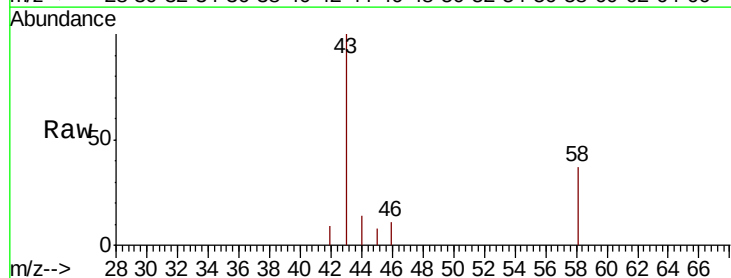
Instrument :
 MSVOA_U
 ClientSampled :

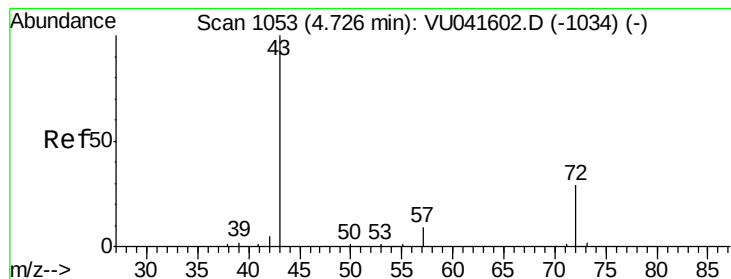
Tot Ion: 96 Resp: 551
 Ion Ratio Lower Upper
 96 100
 61 1226.7 123.8 230.0#
 63 10876.2 81.0 150.4#



#13
 Acetone
 Concen: 3.256 ug/L
 RT: 2.66 min Scan# 411
 Delta R.T. 0.00 min
 Lab File: VU041611.D
 Acq: 14 Dec 2020 14:31

Tgt Ion: 43 Resp: 6487
 Ion Ratio Lower Upper
 43 100
 58 34.7 0.0 73.2





#21

2-Butanone

Concen: 1.375 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VU041611.D

Acq: 14 Dec 2020 14:31

Instrument :

MSVOA_U

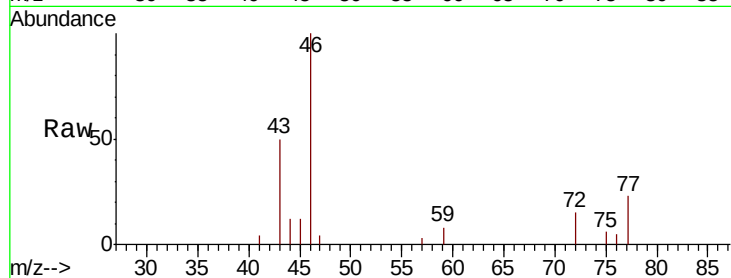
ClientSampled :

Tot Ion: 43 Resp: 4462

Ion Ratio Lower Upper

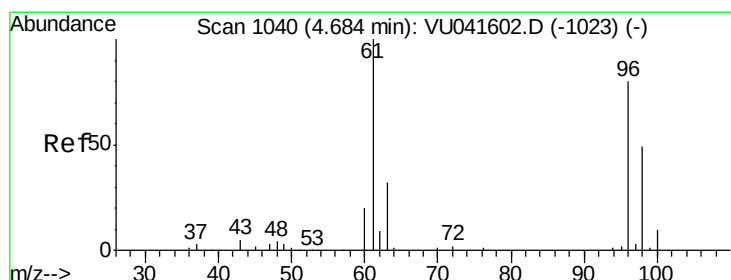
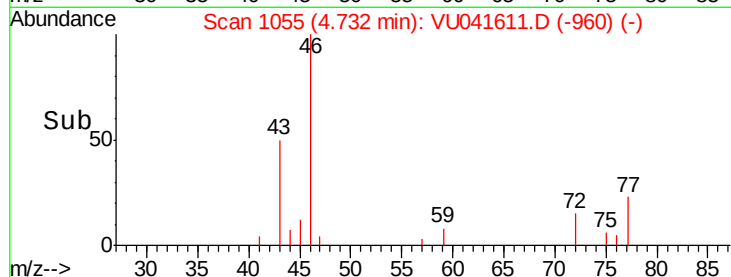
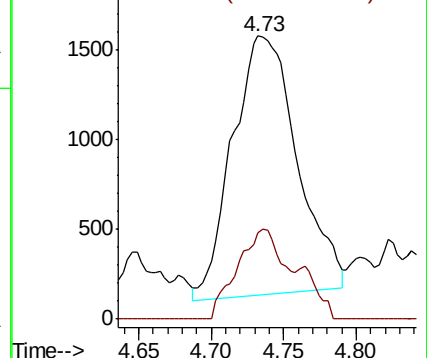
43 100

72 25.2 14.6 44.0



Abundance Ion 43.05 (42.75 to 43.75): VU041611.D (-960) (-)

Ion 72.10 (71.80 to 72.80): VU041611.D (-960) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.004 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. -0.00 min

Lab File: VU041611.D

Acq: 14 Dec 2020 14:31

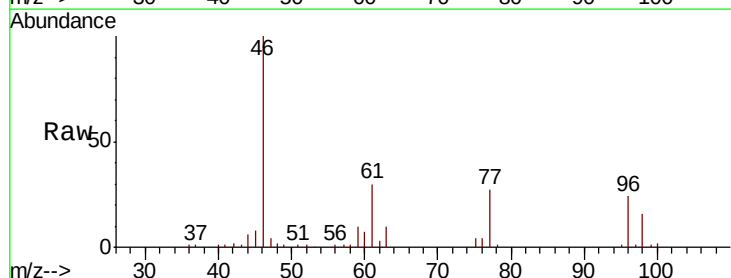
Tgt Ion: 96 Resp: 10864

Ion Ratio Lower Upper

96 100

61 125.9 88.8 165.0

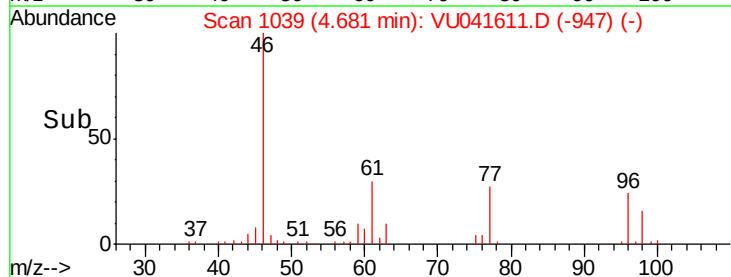
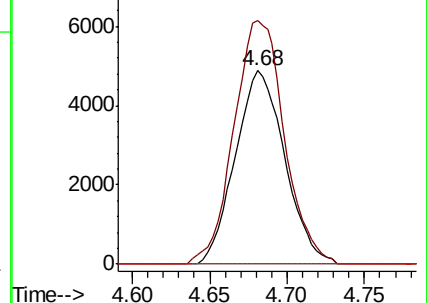
68 0.0 0.0 0.0

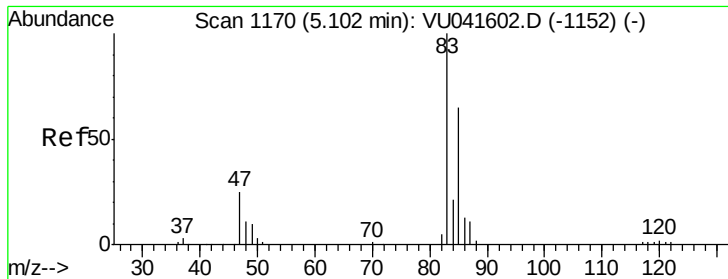


Abundance Ion 96.00 (95.70 to 96.70): VU041611.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU041611.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041611.D (-947) (-)

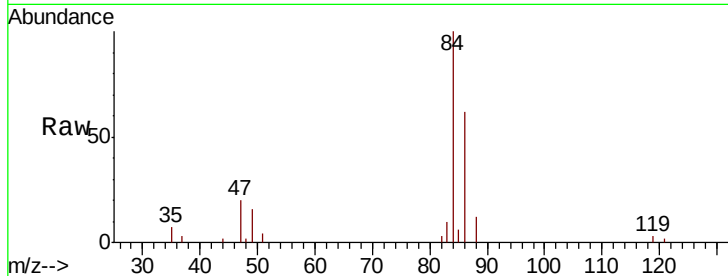




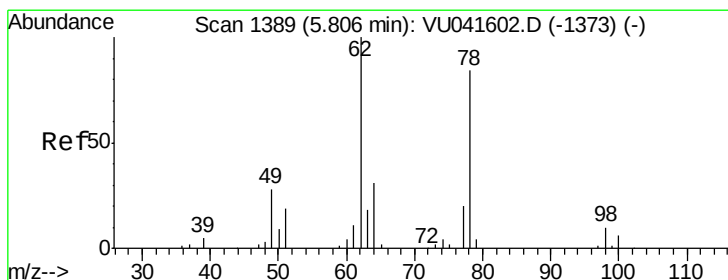
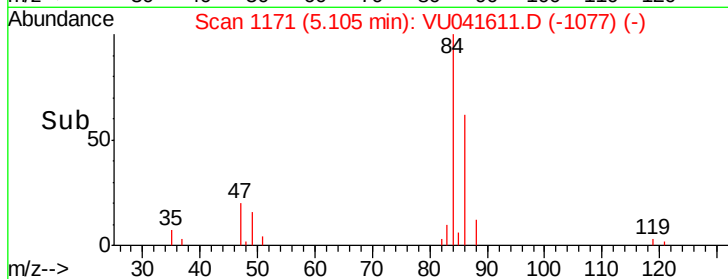
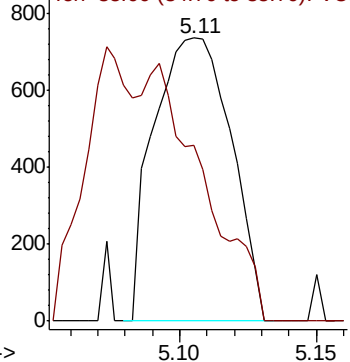
#25
Chloroform
Concen: 0.079 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 1453
Ion Ratio Lower Upper
83 100
85 62.1 44.2 82.0

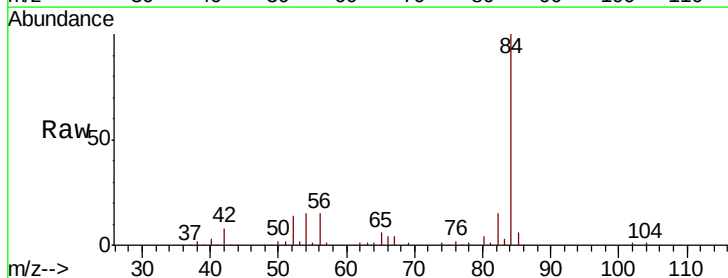


Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

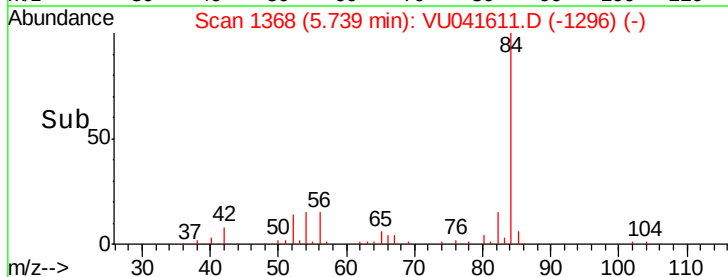
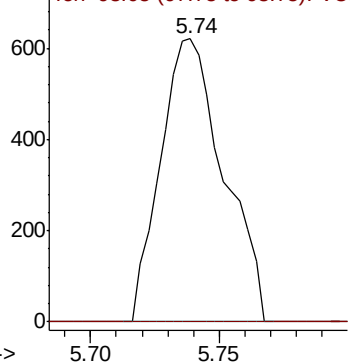


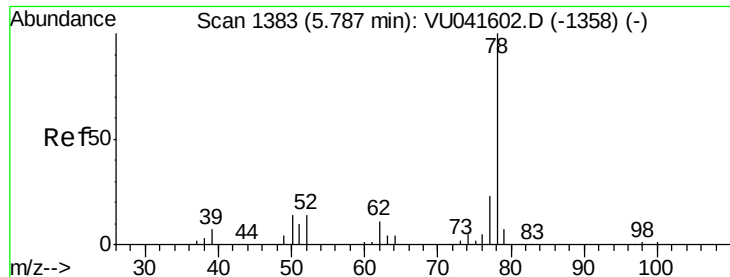
#27
1,2-Dichloroethane
Concen: 0.085 ug/L
RT: 5.74 min Scan# 1368
Delta R.T. -0.07 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Tgt Ion: 62 Resp: 1059
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.05 (97.75 to 98.75): VU0

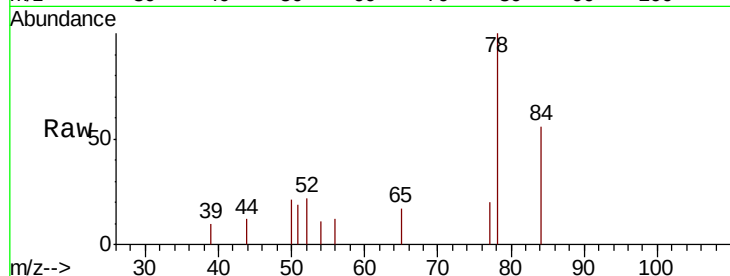




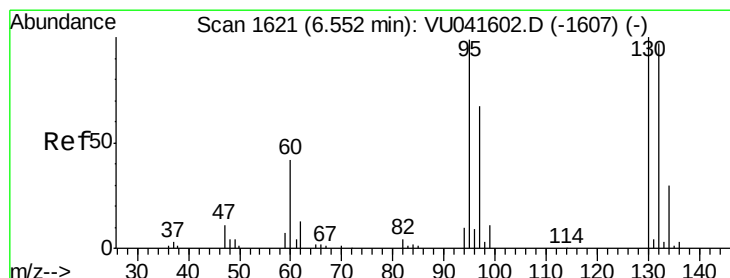
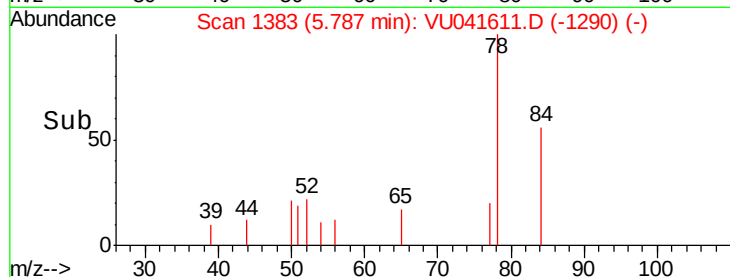
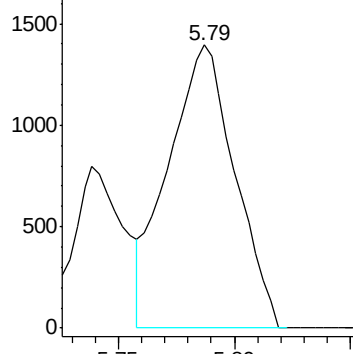
#33
Benzene
Concen: 0.062 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 2784

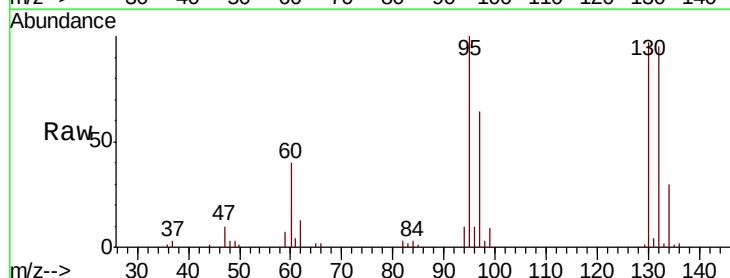


Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 3.961 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. -0.00 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Tgt Ion: 95 Resp: 44632
Ion Ratio Lower Upper
95 100
97 64.0 43.9 81.5
132 95.5 63.1 117.3
130 97.5 67.4 125.2

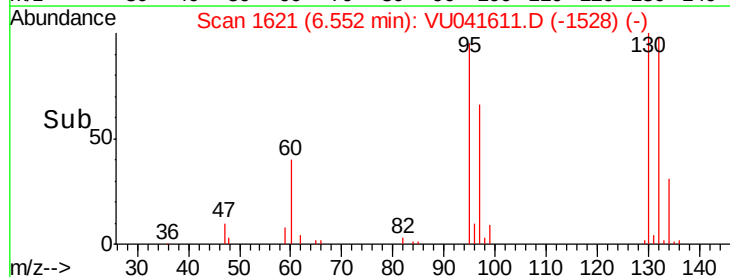
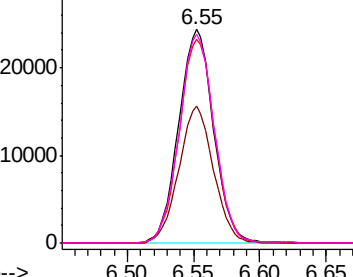


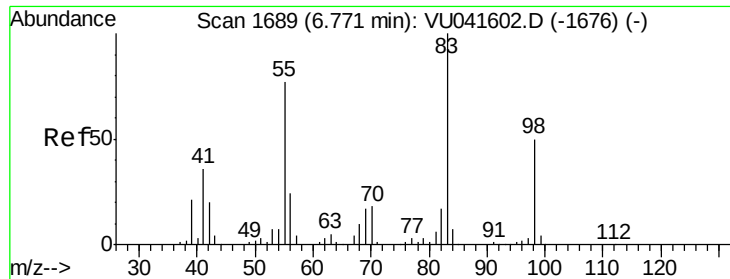
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

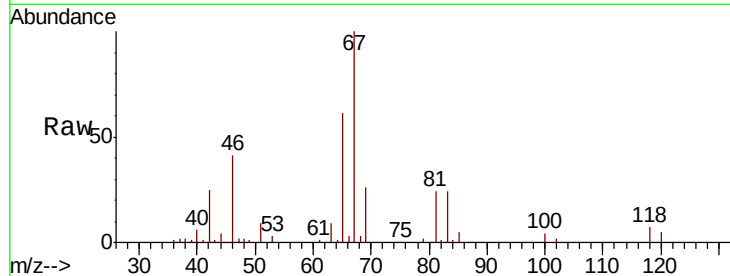




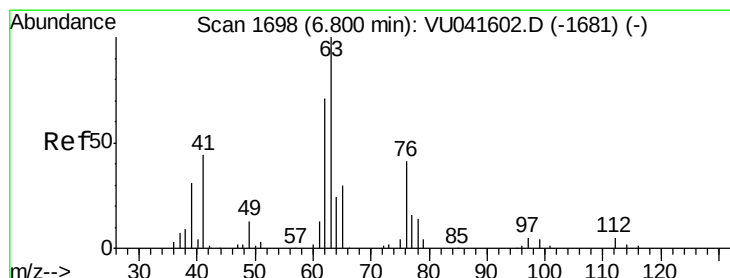
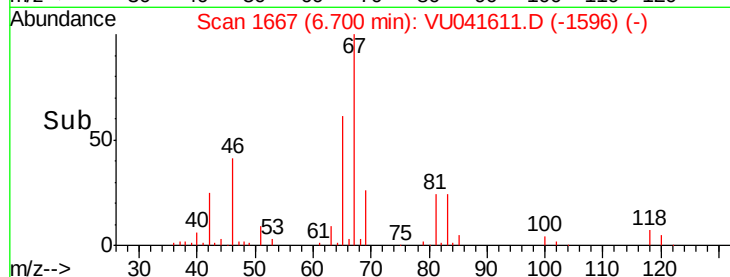
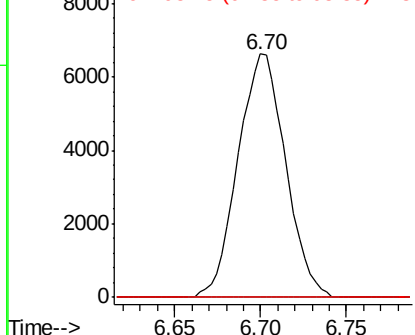
#35
Methylvlcyclohexane
Concen: 0.697 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 12697
Ion Ratio Lower Upper
83 100
55 0.0 61.2 91.8#
98 0.0 36.6 54.8#

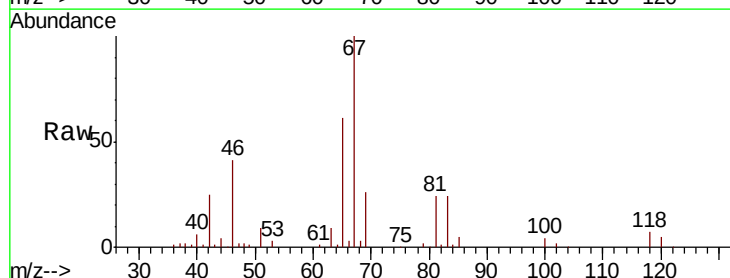


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

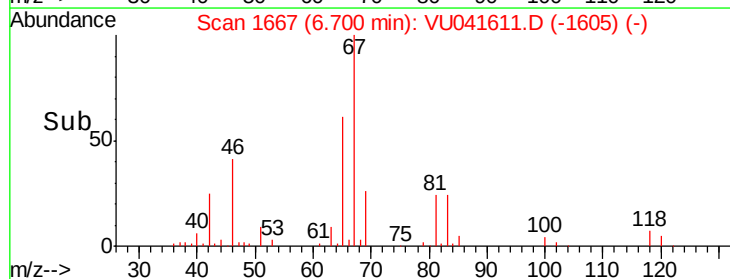
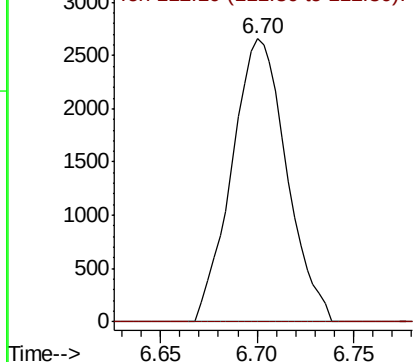


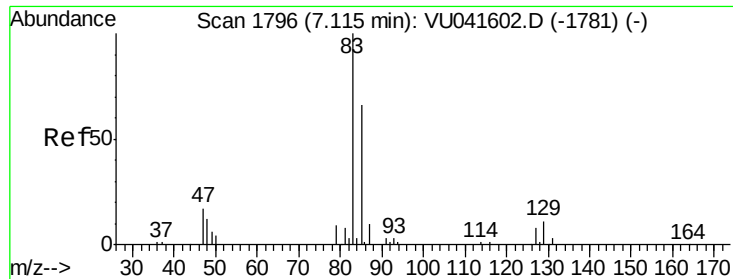
#37
1,2-Dichloropropane
Concen: 0.456 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041611.D
Acq: 14 Dec 2020 14:31

Tgt Ion: 63 Resp: 5228
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



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

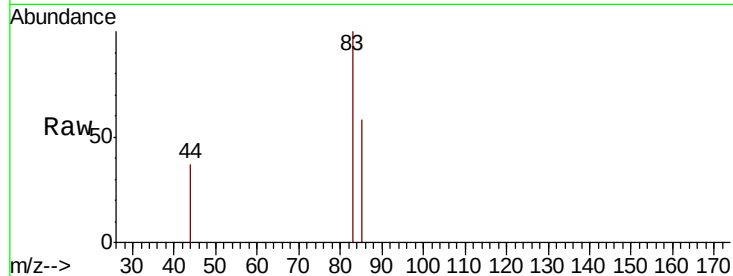




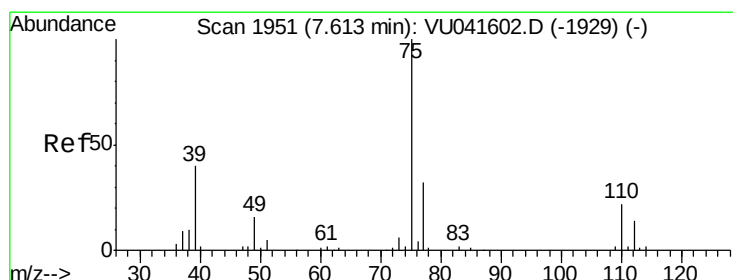
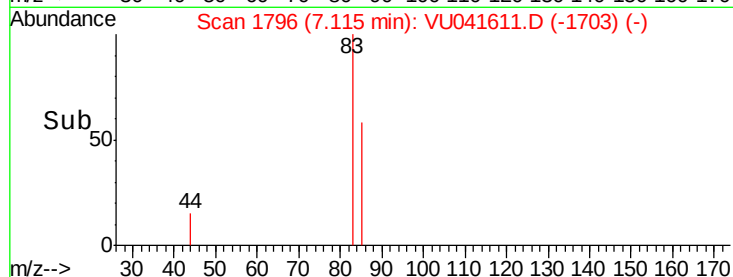
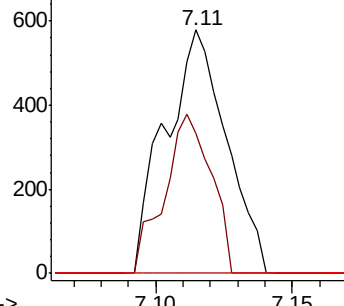
#38
 Bromodichloromethane
 Concen: 0.063 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU041611.D
 Acq: 14 Dec 2020 14:31

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 83 Resp: 898
 Ion Ratio Lower Upper
 83 100
 85 57.5 45.5 84.5
 127 0.0 7.0 10.6#

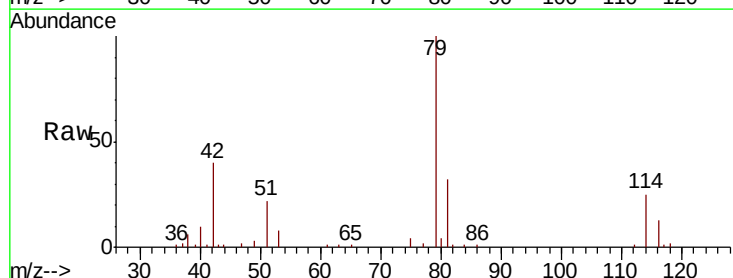


Abundance Ion 82.95 (82.65 to 83.65): VU041611.D (-1703) (-)
 Ion 85.00 (84.70 to 85.70): VU041611.D (-1703) (-)
 Ion 126.90 (126.60 to 127.60): VU041611.D (-1703) (-)

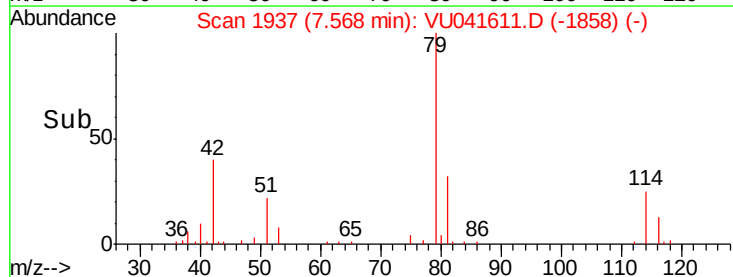
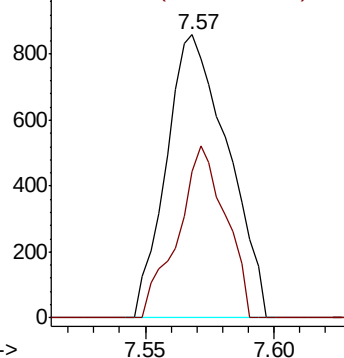


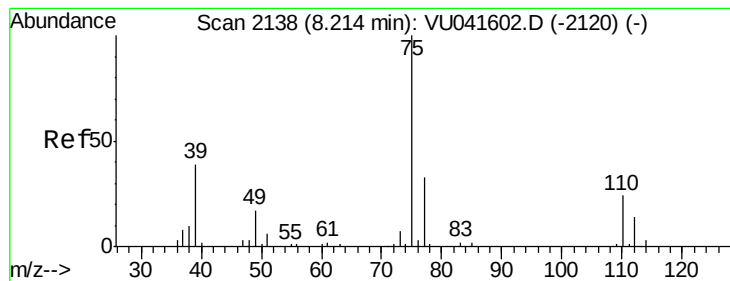
#39
 cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.05 min
 Lab File: VU041611.D
 Acq: 14 Dec 2020 14:31

Tgt Ion: 75 Resp: 1426
 Ion Ratio Lower Upper
 75 100
 77 51.8 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041611.D (-1858) (-)
 Ion 77.05 (76.75 to 77.75): VU041611.D (-1858) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041611.D

Acq: 14 Dec 2020 14:31

Instrument :

MSVOA_U

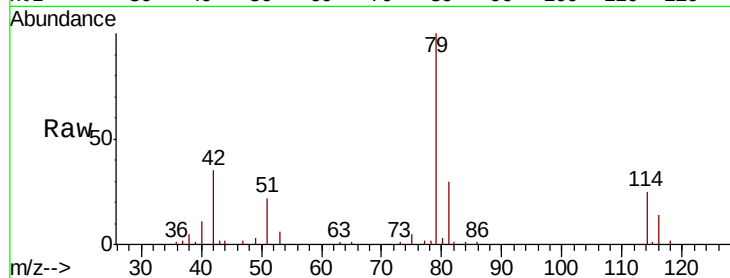
ClientSampled :

Tot Ion: 75 Resp: 925

Ion Ratio Lower Upper

75 100

77 52.4 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.18

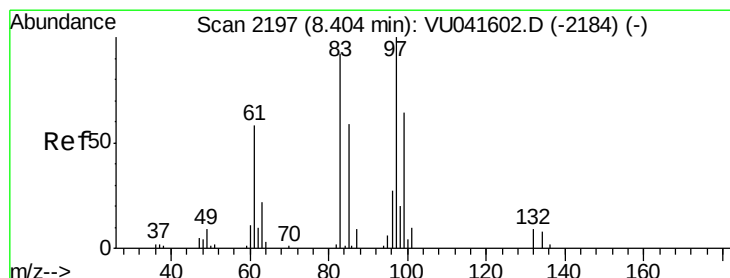
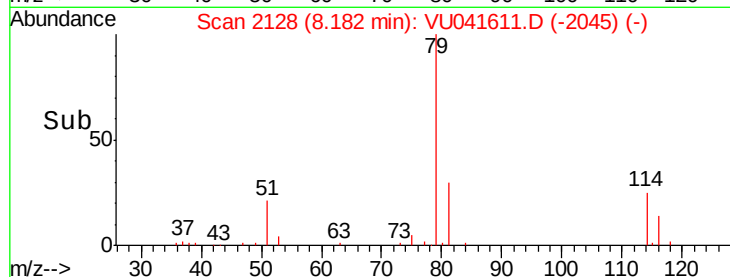
600

400

200

0

Time--> 8.14 8.16 8.18 8.20 8.22



#45

1,1,2-Trichloroethane

Concen: 0.692 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU041611.D

Acq: 14 Dec 2020 14:31

Tgt Ion: 97 Resp: 5869

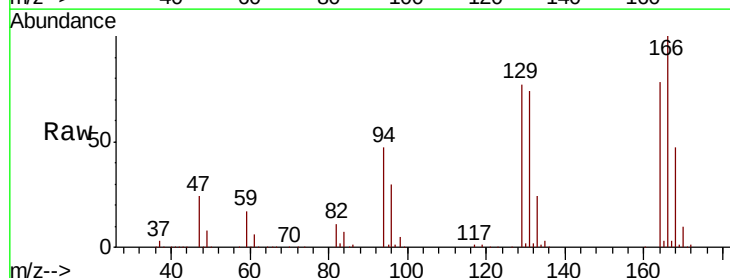
Ion Ratio Lower Upper

97 100

99 18.1 42.1 78.3#

83 277.7 62.6 116.2#

85 35.2 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

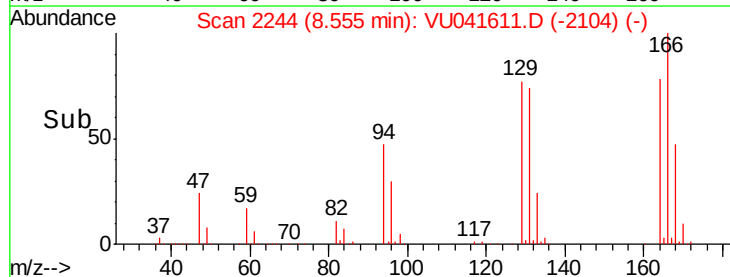
15000

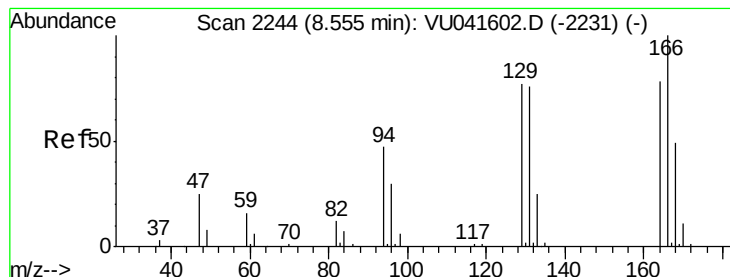
10000

5000

0

Time--> 8.50 8.55 8.60





#47

Tetrachloroethene

Concen: 84.309 ug/L

RT: 8.56 min Scan# 2245

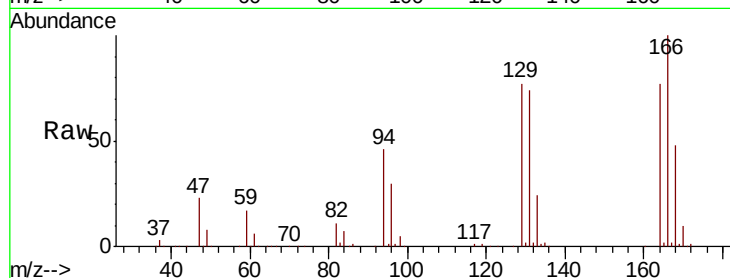
Delta R.T. 0.00 min

Lab File: VU041611.D

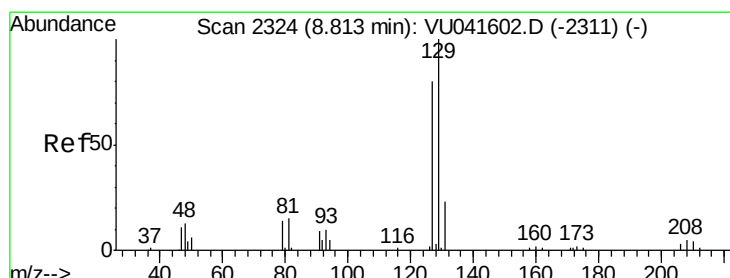
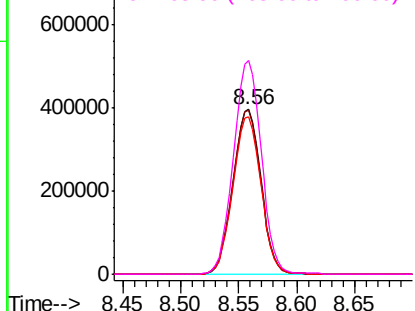
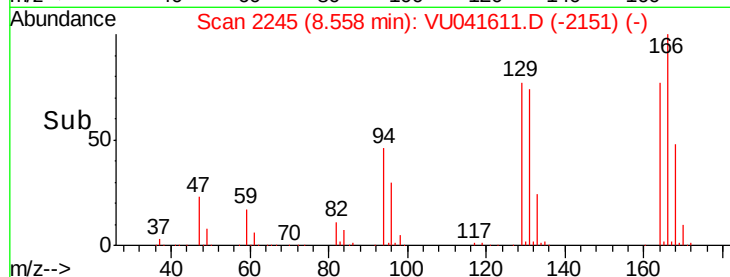
Acq: 14 Dec 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164	Resp:	664937
Ion Ratio	Lower	Upper
164	100	
129	99.4	72.2 134.0
131	95.5	66.9 124.3
166	129.8	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



#49

Dibromochloromethane

Concen: 66.961 ug/L

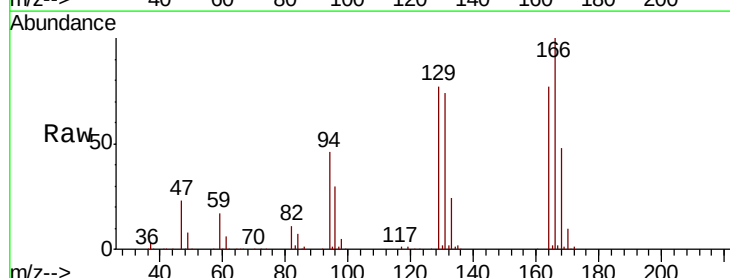
RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

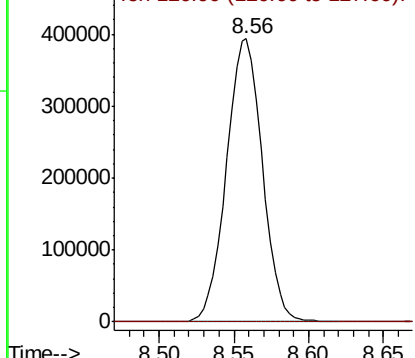
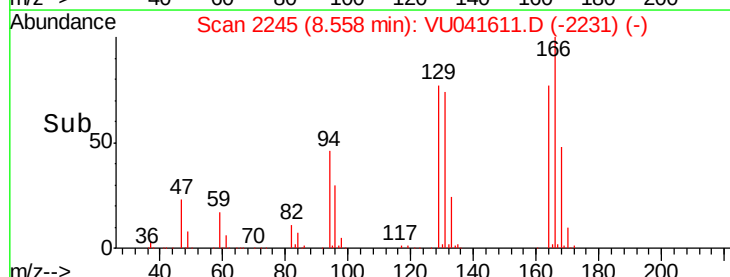
Lab File: VU041611.D

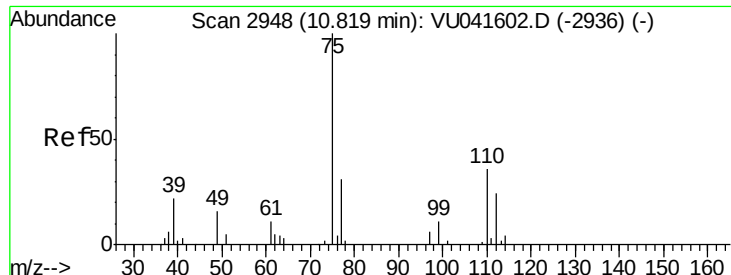
Acq: 14 Dec 2020 14:31

Tgt Ion:129	Resp:	652311
Ion Ratio	Lower	Upper
129	100	
127	0.0	54.7 101.7#



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: 0.925 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041611.D

Acq: 14 Dec 2020 14:31

Instrument :

MSVOA_U

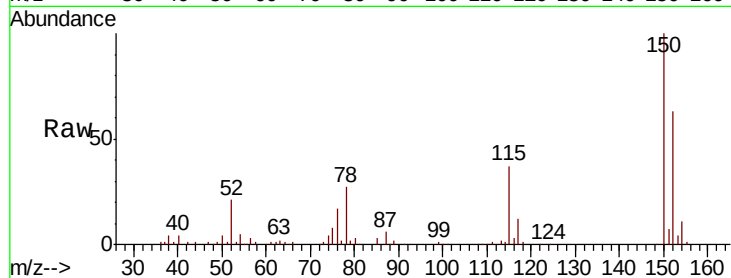
ClientSampleId :

Tot Ion: 75 Resp: 7965

Ion Ratio Lower Upper

75 100

77 29.5 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

