

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037775.D
 Acq On : 17 Apr 2020 15:05
 Operator : JC/MD
 Sample : L2296-04RE
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 18 01:23:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 18 01:19:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	272677	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	261674	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	129846	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	88298	4.28	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.60%
7) Chloroethane-d5	1.93	69	76201	4.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.60%
11) 1,1-Dichloroethene-d2	2.59	63	119405	3.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.20%
20) 2-Butanone-d5	4.67	46	289687	51.12	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.24%
24) Chloroform-d	5.10	84	155035	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.74	65	92100	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.76	84	327690	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.72	67	111497	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.92	98	291195	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	8.20	79	45958	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.65	63	251481	47.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.06%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	85090	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	109801	4.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	51619	1.797	ug/L	98
12) 1,1-Dichloroethene	2.60	96	8144	0.433	ug/L #	1
15) Methyl Acetate	3.07	43	10595	1.020	ug/L #	54
18) trans-1,2-Dichloroethene	3.39	96	2710	0.133	ug/L	95
19) 1,1-Dichloroethane	3.91	63	42161	1.068	ug/L	96
22) cis-1,2-Dichloroethene	4.71	96	235127	10.667	ug/L	92
25) Chloroform	5.13	83	138350	3.691	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	74759	2.355	ug/L	98
30) Cyclohexane	5.42	56	7256	0.185	ug/L	93
31) Carbon tetrachloride	5.36	117	9170	0.362	ug/L	98
34) Trichloroethene	6.57	95	10492	0.494	ug/L	94
35) Methylcyclohexane	6.72	83	24769	0.665	ug/L #	17
37) 1,2-Dichloropropane	6.73	63	11888	0.518	ug/L #	87
51) Chlorobenzene	9.47	112	30582	0.553	ug/L	98
59) 1,2,3-Trichloropropane	11.83	75	20237	1.348	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	7580	0.174	ug/L	92
63) 1,4-Dichlorobenzene	11.85	146	7492	0.172	ug/L	94

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 18 01:19:54 2020
Response via : Initial Calibration

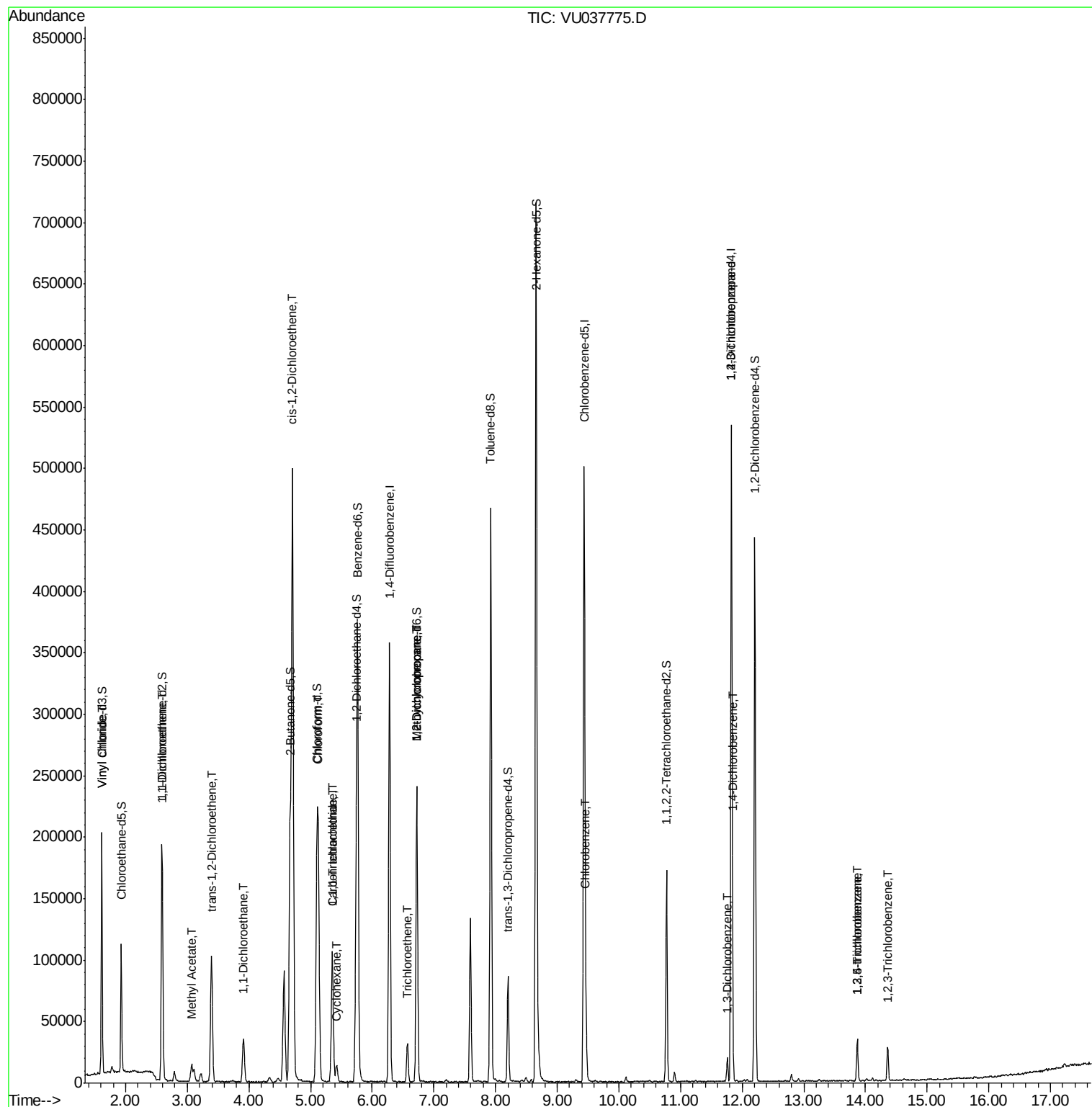
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	13.87	180	9923	0.311	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	9923	0.339	ug/L	97
70) 1,2,3-Trichlorobenzene	14.36	180	8733	0.335	ug/L	96

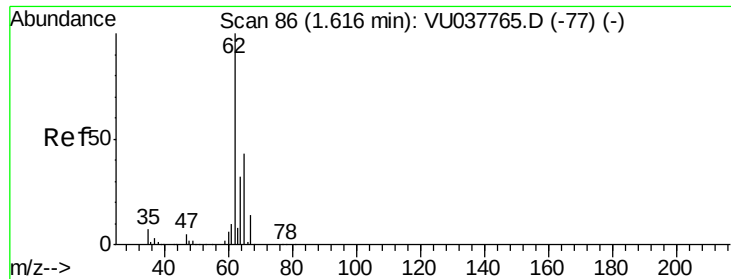
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.797 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037775.D

Acq: 17 Apr 2020 15:05

Instrument :

MSVOA_U

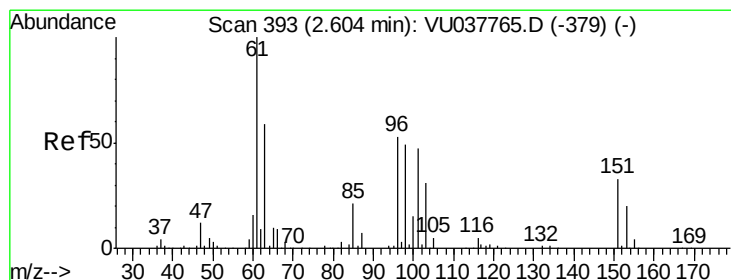
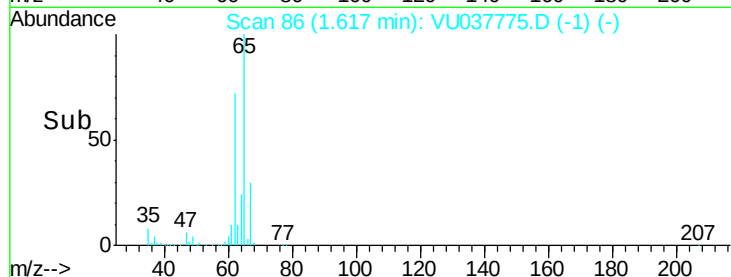
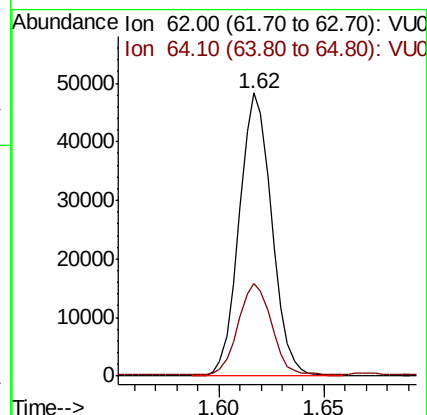
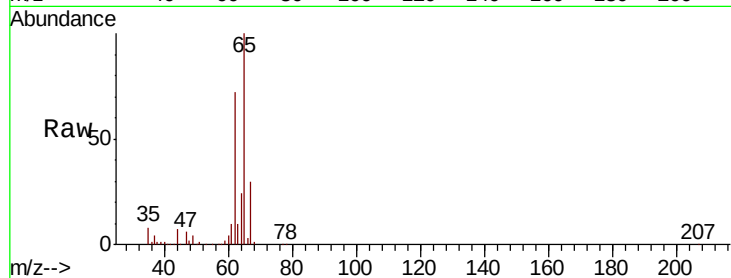
ClientSampled :

Tot Ion: 62 Resp: 51619

Ion Ratio Lower Upper

62 100

64 32.7 22.1 41.1



#12

1,1-Dichloroethene

Concen: 0.433 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037775.D

Acq: 17 Apr 2020 15:05

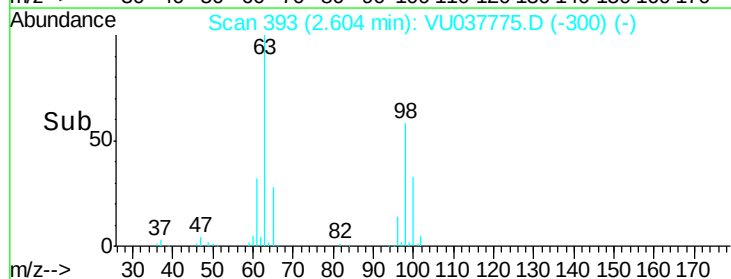
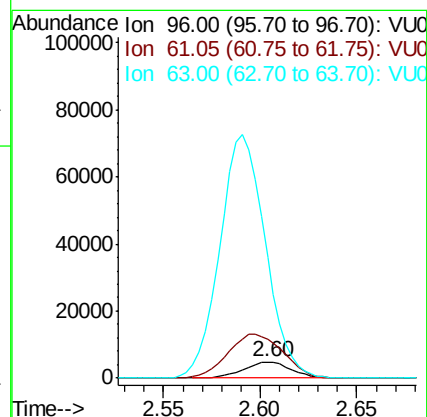
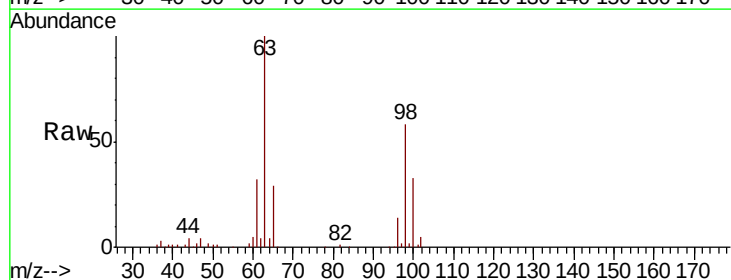
Tgt Ion: 96 Resp: 8144

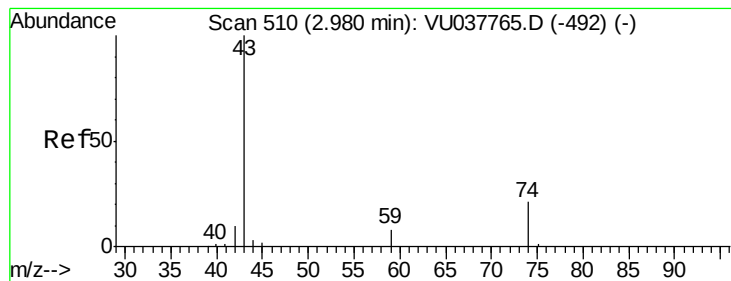
Ion Ratio Lower Upper

96 100

61 234.5 127.7 237.3

63 740.3 85.0 157.8#





#15

Methyl Acetate

Concen: 1.020 ug/L

RT: 3.07 min Scan# 538

Delta R.T. 0.09 min

Lab File: VU037775.D

Acq: 17 Apr 2020 15:05

Instrument :

MSVOA_U

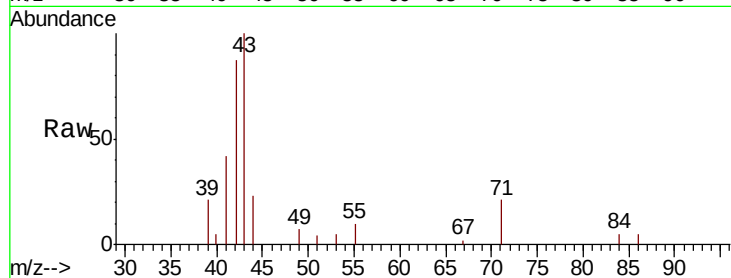
ClientSampled :

Tot Ion: 43 Resp: 10595

Ion Ratio Lower Upper

43 100

74 0.0 17.2 25.8#



Abundance Ion 43.05 (42.75 to 43.75): VU037775.D (-417) (-)

Ion 74.05 (73.75 to 74.75): VU037775.D (-417) (-)

3.07

4000

3000

2000

1000

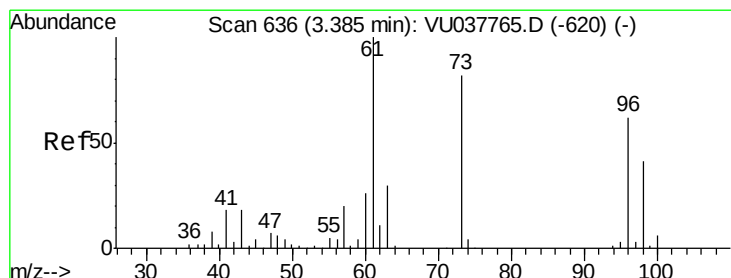
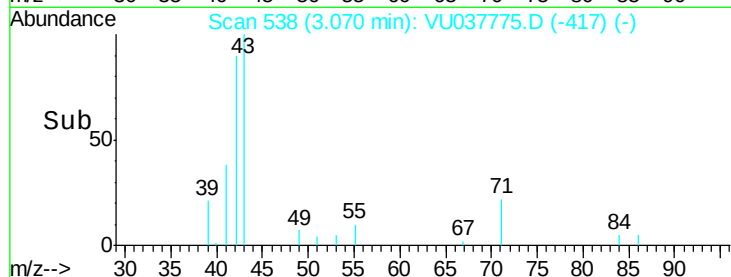
0

Time-->

3.00

3.05

3.10



#18

trans-1,2-Dichloroethene

Concen: 0.133 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037775.D

Acq: 17 Apr 2020 15:05

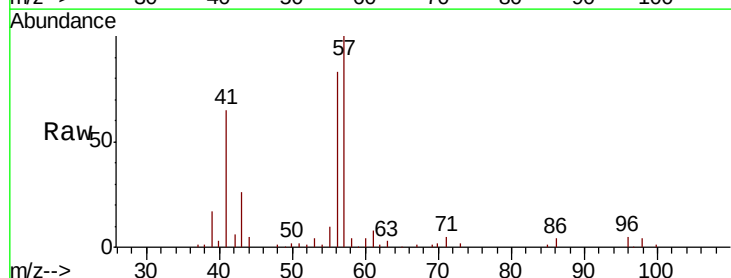
Tgt Ion: 96 Resp: 2710

Ion Ratio Lower Upper

96 100

61 144.4 106.7 198.3

98 60.9 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU037775.D (-543) (-)

Ion 61.05 (60.75 to 61.75): VU037775.D (-543) (-)

Ion 97.95 (97.65 to 98.65): VU037775.D (-543) (-)

3.39

3000

2500

2000

1500

1000

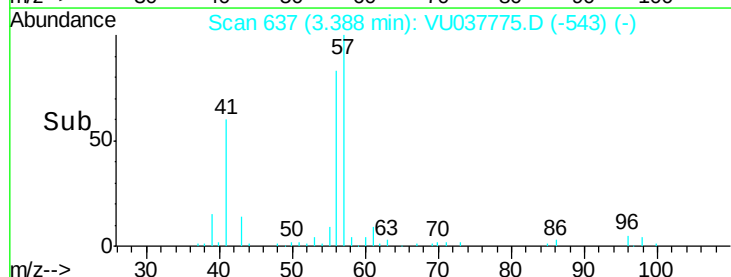
500

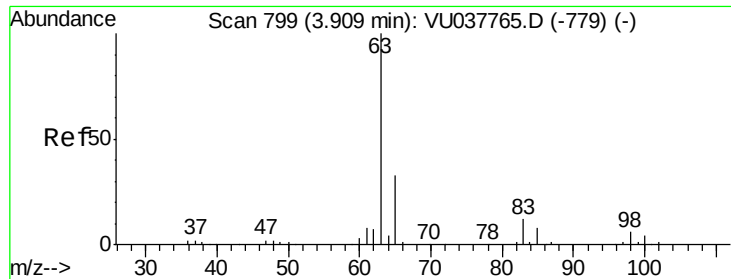
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Time-->

3.35

3.40

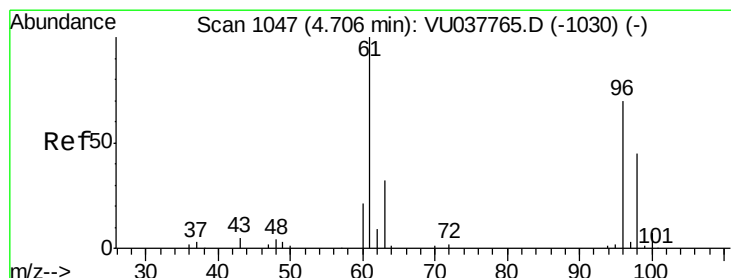
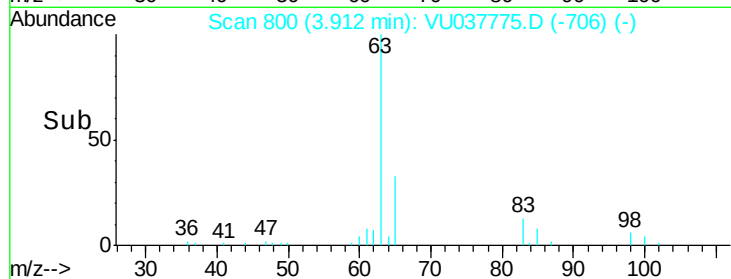
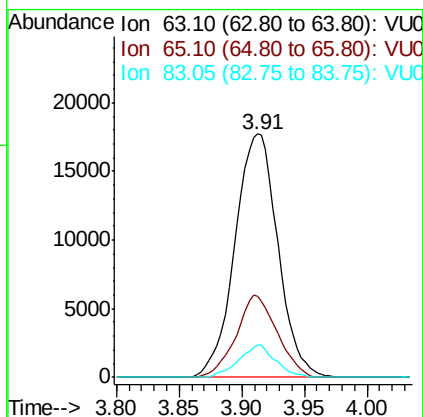
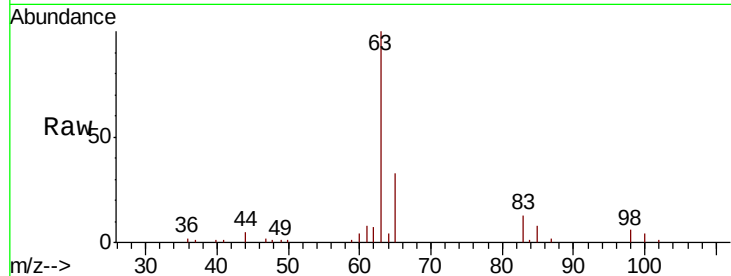




#19
 1,1-Dichloroethane
 Concen: 1.068 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

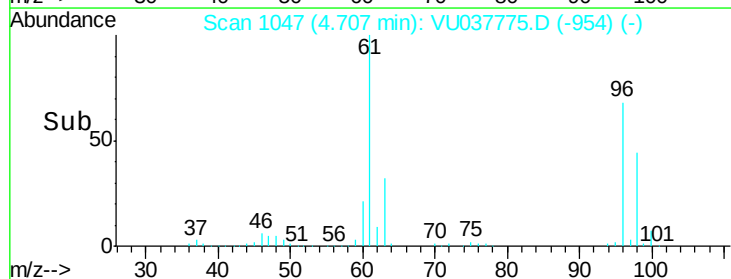
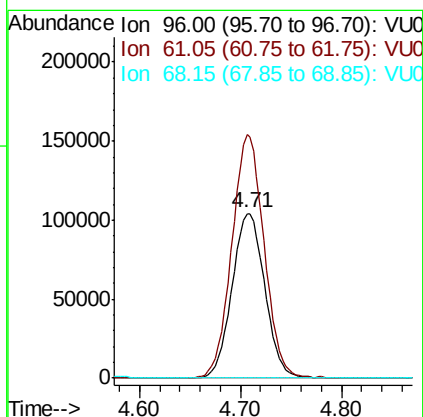
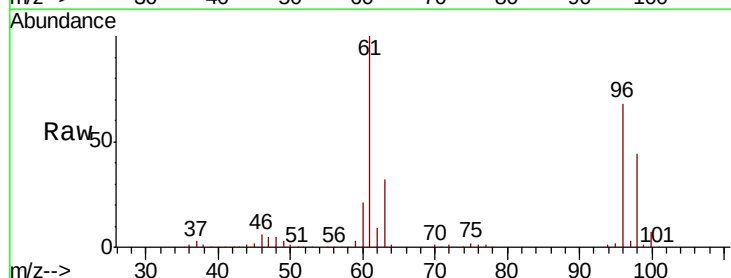
Instrument :
 MSVOA_U
 ClientSampleId :

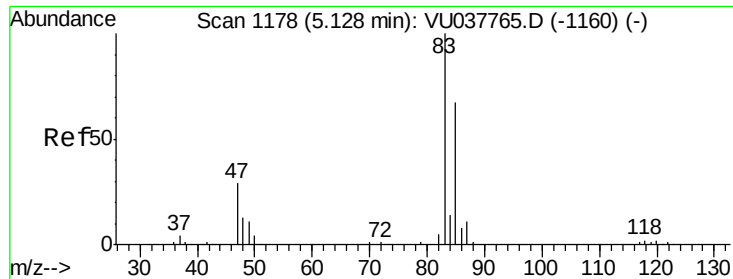
Tot Ion: 63 Resp: 42161
 Ion Ratio Lower Upper
 63 100
 65 33.5 21.6 40.2
 83 13.2 8.6 16.0



#22
 cis-1,2-Dichloroethene
 Concen: 10.667 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Tgt Ion: 96 Resp: 235127
 Ion Ratio Lower Upper
 96 100
 61 147.8 97.0 180.2
 68 0.0 0.0 0.0

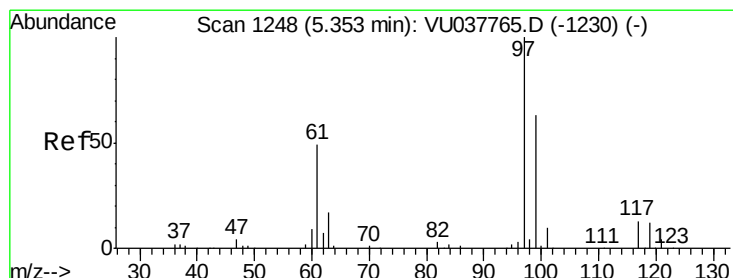
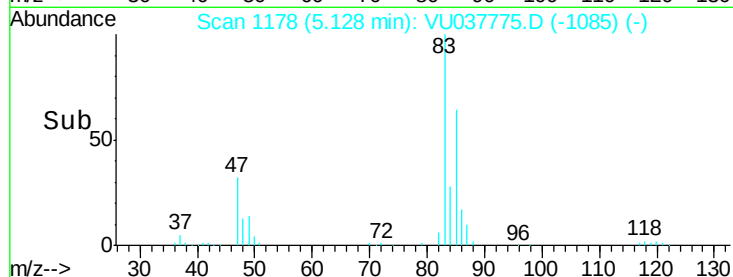
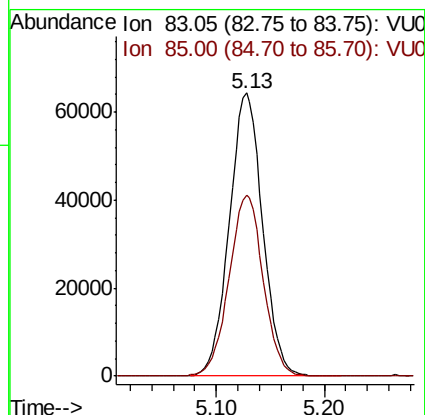
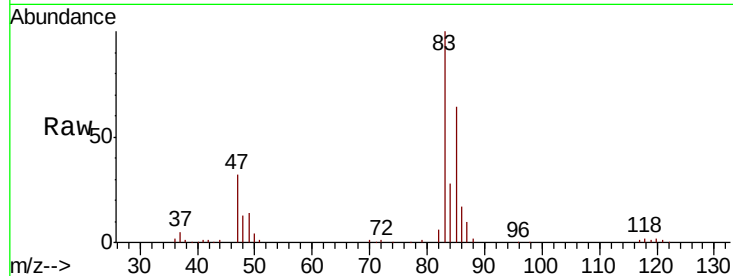




#25
Chloroform
Concen: 3.691 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037775.D
Acq: 17 Apr 2020 15:05

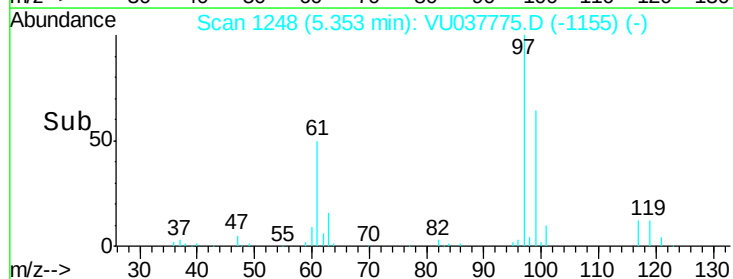
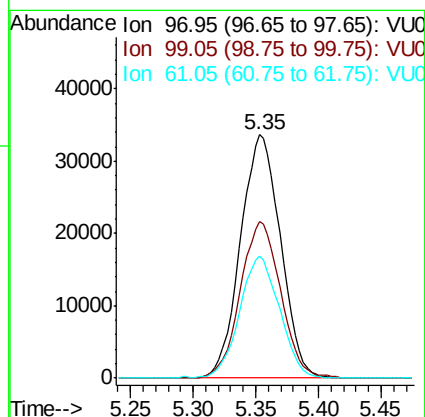
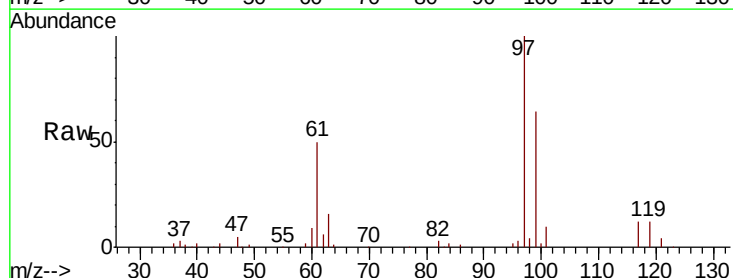
Instrument :
MSVOA_U
ClientSampleId :

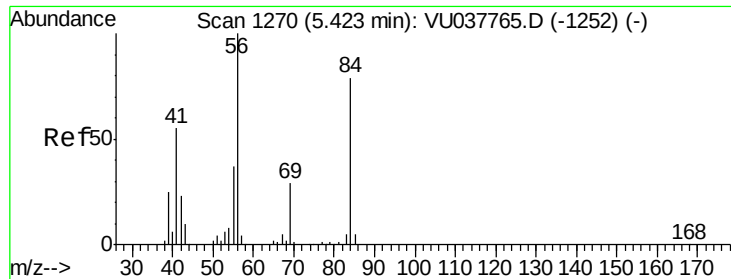
Tot Ion: 83 Resp: 138350
Ion Ratio Lower Upper
83 100
85 64.1 44.9 83.3



#29
1,1,1-Trichloroethane
Concen: 2.355 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU037775.D
Acq: 17 Apr 2020 15:05

Tgt Ion: 97 Resp: 74759
Ion Ratio Lower Upper
97 100
99 64.8 52.0 78.0
61 49.9 37.8 56.8

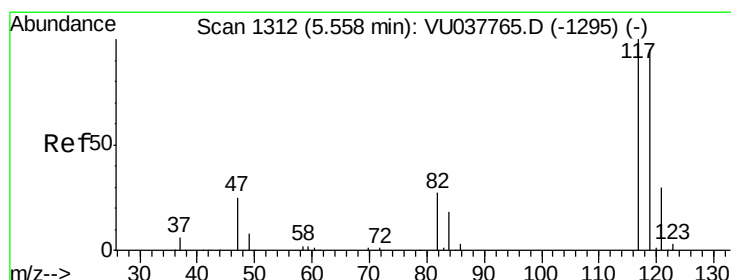
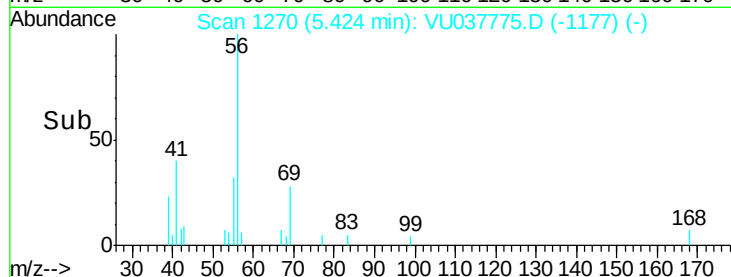
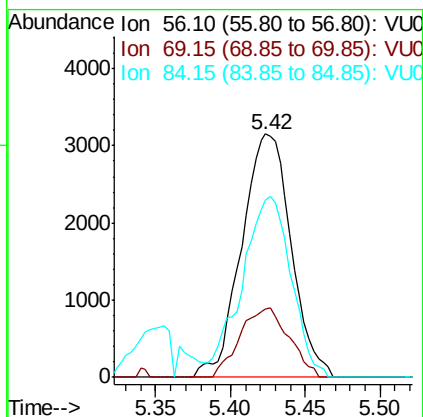
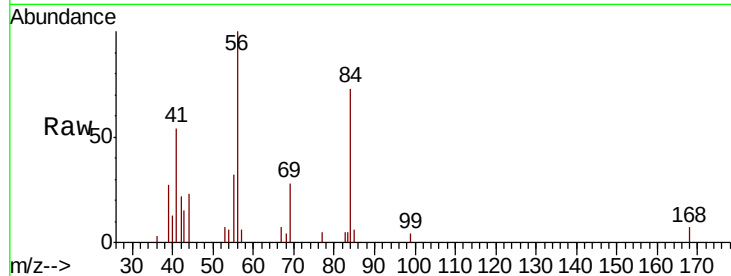




#30
Cyclohexane
Concen: 0.185 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037775.D
Acq: 17 Apr 2020 15:05

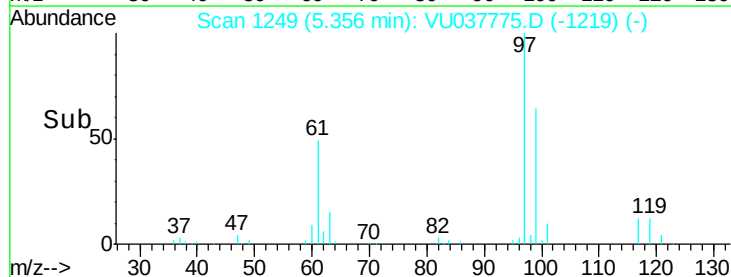
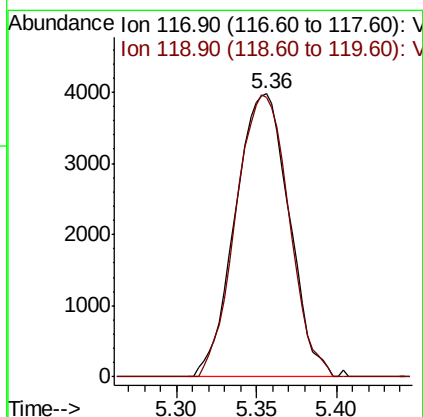
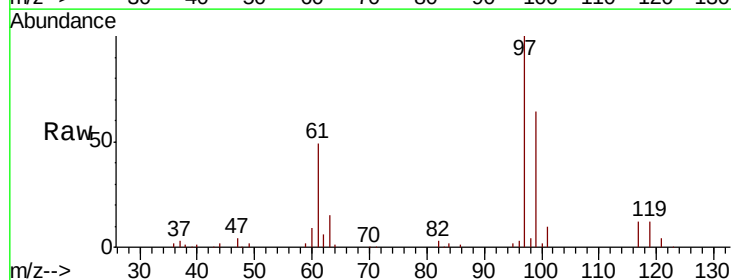
Instrument :
MSVOA_U
ClientSampleId :

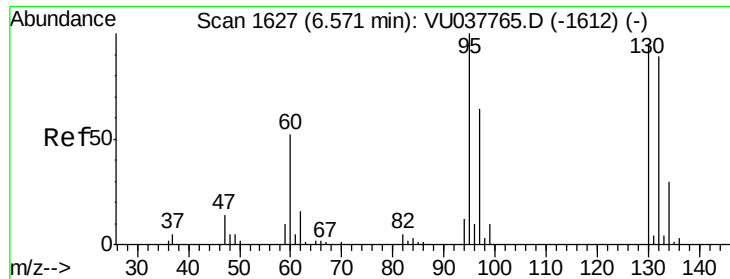
Tot Ion: 56 Resp: 7256
Ion Ratio Lower Upper
56 100
69 28.2 23.9 35.9
84 74.1 65.6 98.4



#31
Carbon tetrachloride
Concen: 0.362 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. -0.20 min
Lab File: VU037775.D
Acq: 17 Apr 2020 15:05

Tgt Ion: 117 Resp: 9170
Ion Ratio Lower Upper
117 100
119 98.2 77.4 116.0

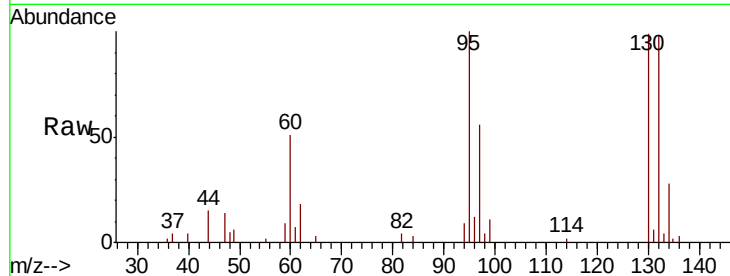




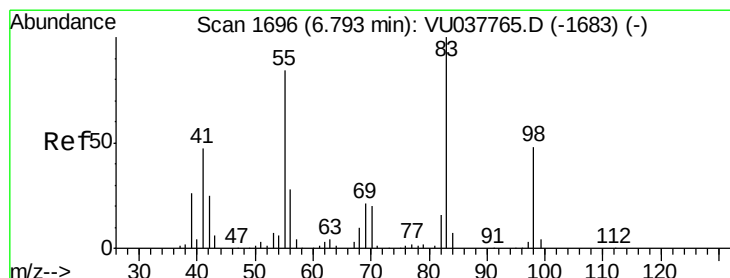
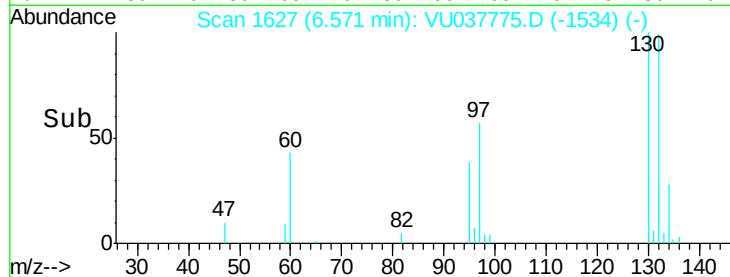
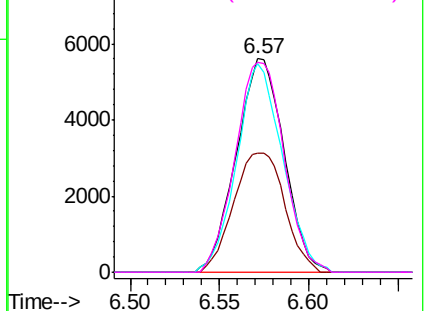
#34
 Trichloroethene
 Concen: 0.494 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 10492
 Ion Ratio Lower Upper
 95 100
 97 55.9 45.4 84.2
 132 97.6 63.7 118.3
 130 98.6 68.7 127.5

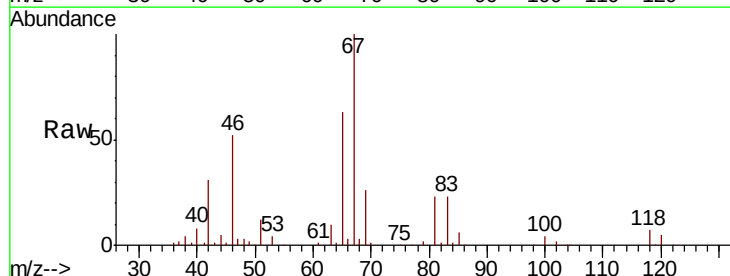


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

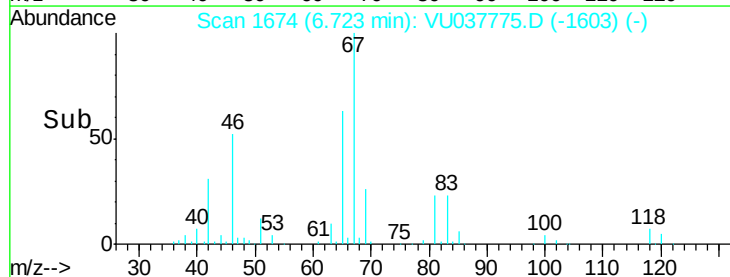
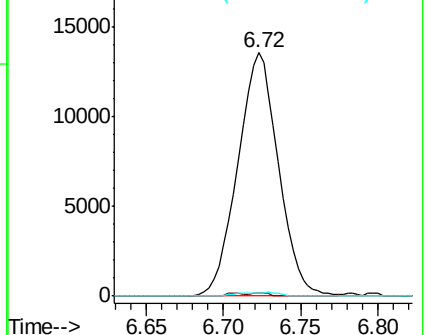


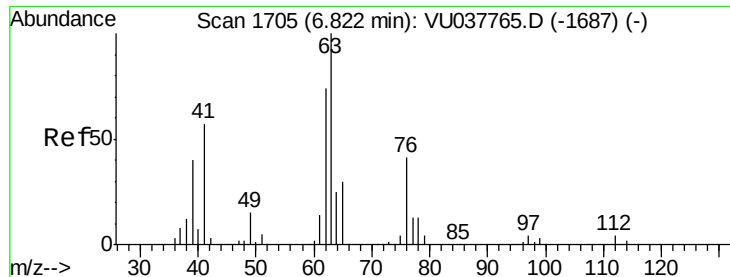
#35
 Methylcyclohexane
 Concen: 0.665 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Tgt Ion: 83 Resp: 24769
 Ion Ratio Lower Upper
 83 100
 55 0.5 65.5 98.3#
 98 1.4 38.2 57.4#



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

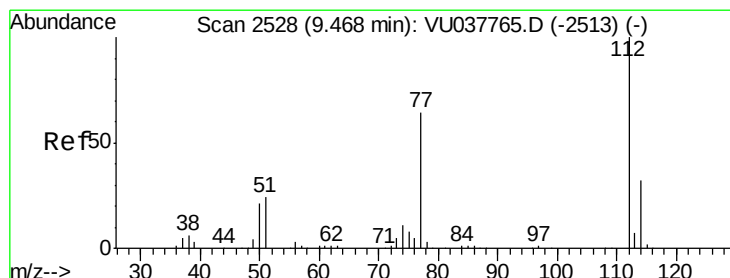
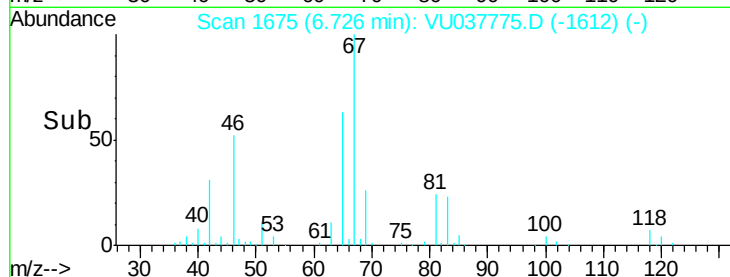
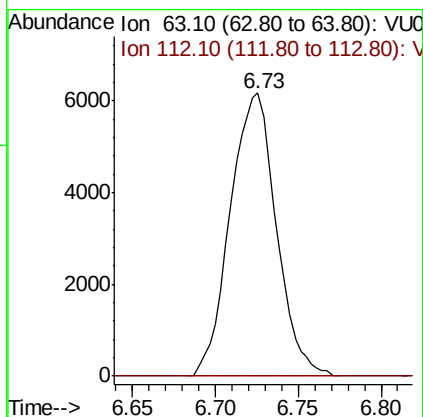
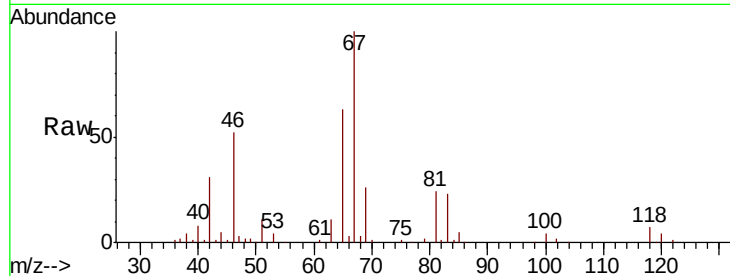




#37
 1,2-Dichloropropane
 Concen: 0.518 ug/L
 RT: 6.73 min Scan# 1675
 Delta R.T. -0.10 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

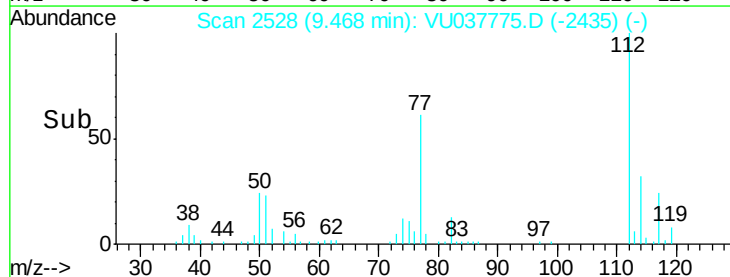
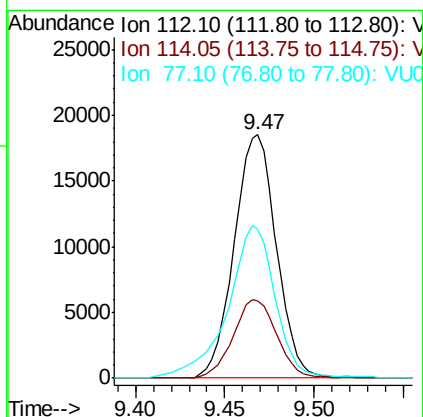
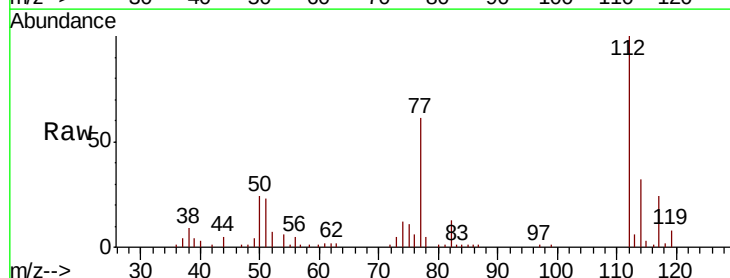
Instrument :
 MSVOA_U
 ClientSampleId :

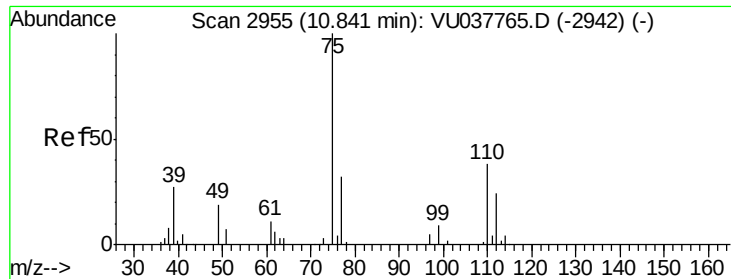
Tot Ion: 63 Resp: 11888
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#51
 Chlorobenzene
 Concen: 0.553 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Tgt Ion: 112 Resp: 30582
 Ion Ratio Lower Upper
 112 100
 114 31.6 22.6 42.0
 77 61.0 50.2 75.4

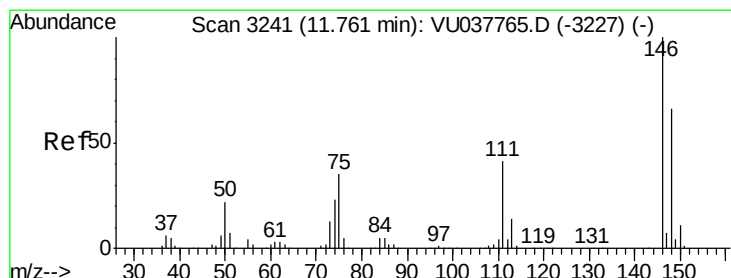
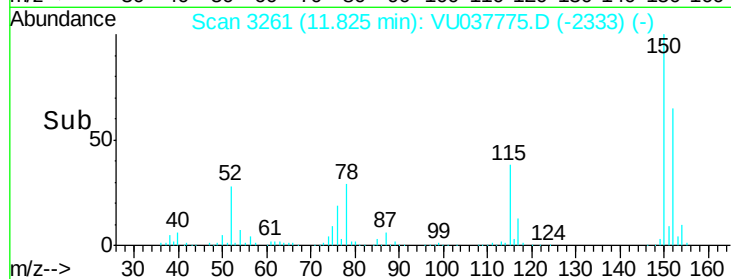
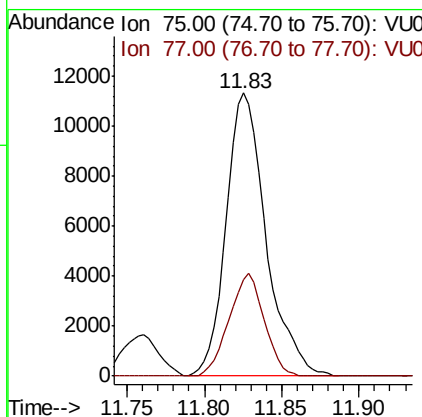
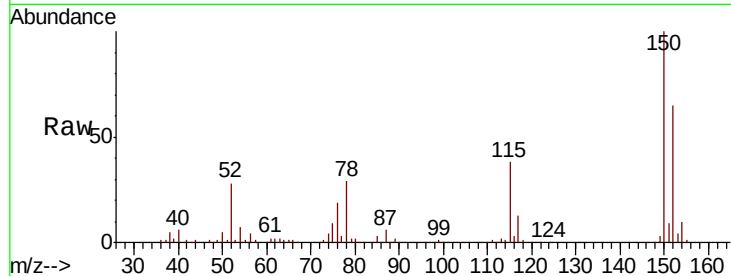




#59
 1,2,3-Trichloropropane
 Concen: 1.348 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

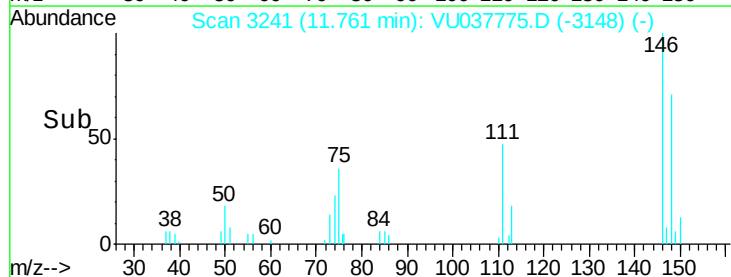
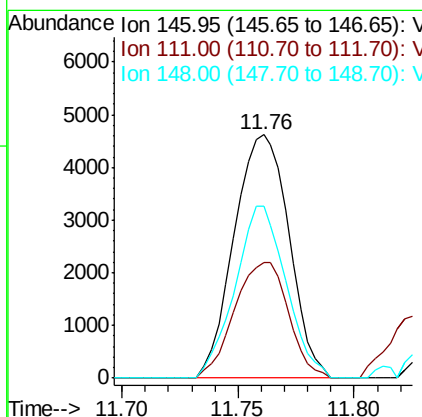
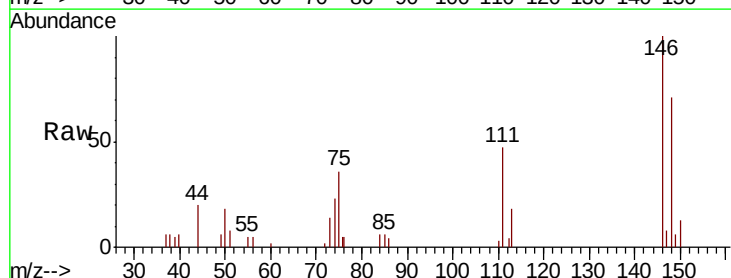
Instrument :
 MSVOA_U
 ClientSampleId :

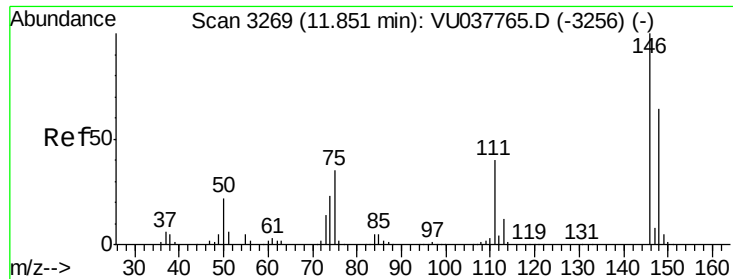
Tot Ion: 75 Resp: 20237
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.4 38.2



#62
 1,3-Dichlorobenzene
 Concen: 0.174 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Tgt Ion: 146 Resp: 7580
 Ion Ratio Lower Upper
 146 100
 111 47.4 29.8 55.3
 148 70.6 44.5 82.7





#63

1,4-Dichlorobenzene

Concen: 0.172 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037775.D

Acq: 17 Apr 2020 15:05

Instrument :

MSVOA_U

ClientSampleId :

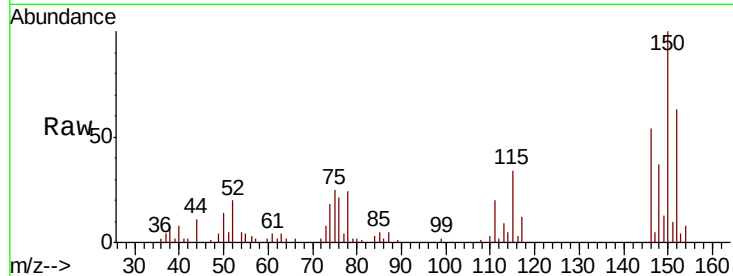
Tot Ion:146 Resp: 7492

Ion Ratio Lower Upper

146 100

111 36.3 28.4 52.8

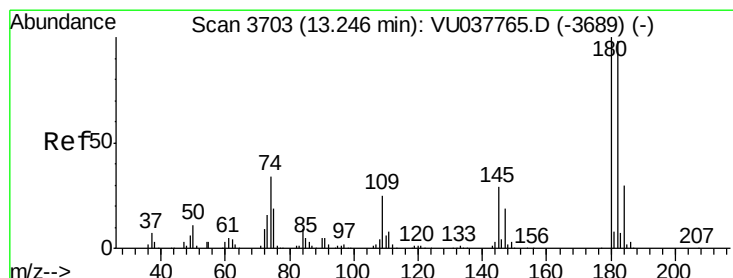
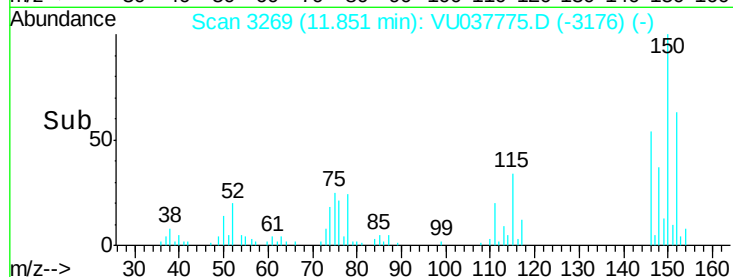
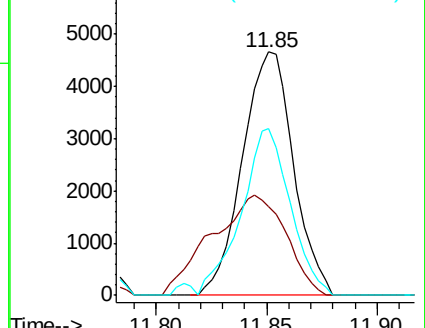
148 68.4 44.9 83.3



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: 0.311 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. 0.62 min

Lab File: VU037775.D

Acq: 17 Apr 2020 15:05

Tgt Ion:180 Resp: 9923

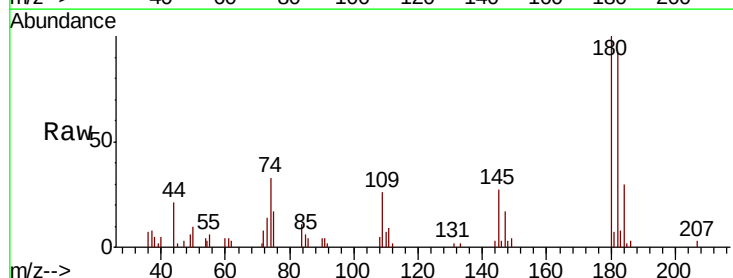
Ion Ratio Lower Upper

180 100

182 98.6 77.1 115.7

184 30.4 24.7 37.1

145 30.2 24.6 37.0

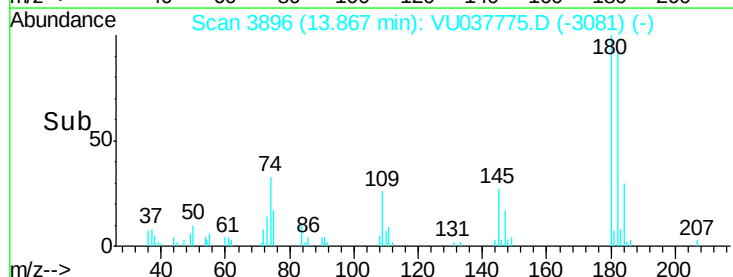
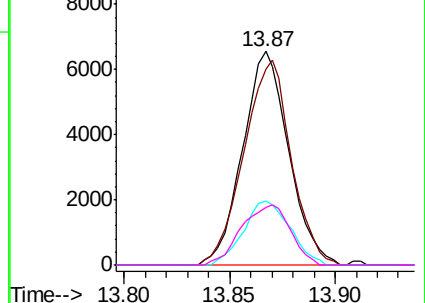


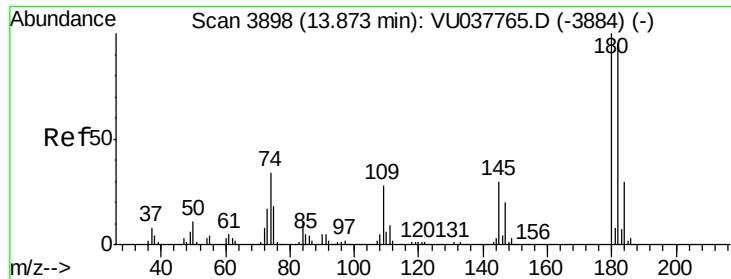
Abundance Ion 180.00 (179.70 to 180.70): V

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

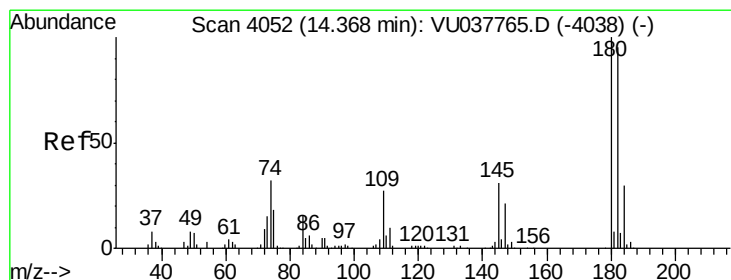
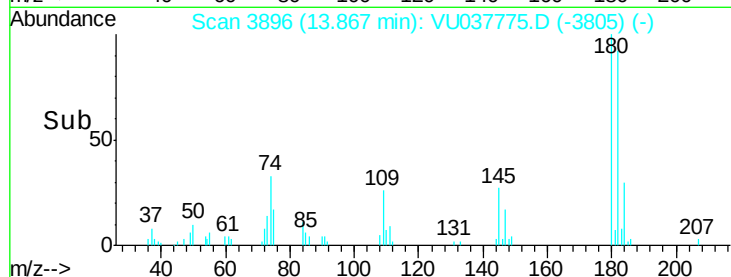
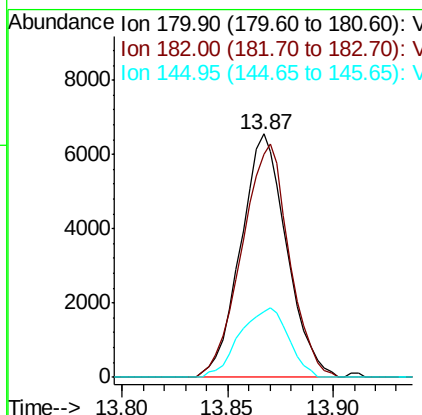
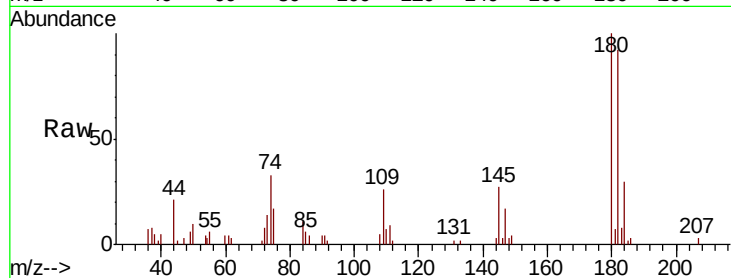




#68
 1,2,4-trichlorobenzene
 Concen: 0.339 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 9923
 Ion Ratio Lower Upper
 180 100
 182 98.6 76.4 114.6
 145 30.2 25.1 37.7



#70
 1,2,3-Trichlorobenzene
 Concen: 0.335 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU037775.D
 Acq: 17 Apr 2020 15:05

Tgt Ion:180 Resp: 8733
 Ion Ratio Lower Upper
 180 100
 182 93.3 76.6 115.0
 145 29.5 26.7 40.1

