

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037790.D
 Acq On : 17 Apr 2020 23:01
 Operator : JC/MD
 Sample : L2319-02
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 18 05:22:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 18 05:19:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	270544	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	261430	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	127441	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	80997	3.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.20%
7) Chloroethane-d5	1.93	69	76953	4.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.00%
11) 1,1-Dichloroethene-d2	2.60	63	478891	13.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	263.20%#
20) 2-Butanone-d5	4.66	46	311362	55.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.76%
24) Chloroform-d	5.10	84	157565	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.74	65	93829	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.76	84	322199	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
36) 1,2-Dichloropropane-d6	6.72	67	109560	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.92	98	287846	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	8.20	79	45970	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.65	63	269411	50.97	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.94%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	88733	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	106692	4.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	2715	0.095	ug/L #	1
8) Chloroethane	1.91	64	1587	0.095	ug/L #	51
9) Trichlorofluoromethane	2.38	101	7460	0.244	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	2266	0.127	ug/L #	26
12) 1,1-Dichloroethene	2.60	96	616949	33.045	ug/L #	80
13) Acetone	2.66	43	11703	3.157	ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	3281	0.162	ug/L	86
19) 1,1-Dichloroethane	3.91	63	127865	3.266	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	445154	20.355	ug/L	96
25) Chloroform	5.13	83	18433	0.496	ug/L	97
29) 1,1,1-Trichloroethane	5.35	97	42158	1.329	ug/L	98
31) Carbon tetrachloride	5.56	117	16207	0.641	ug/L	99
34) Trichloroethene	6.57	95	656309	30.918	ug/L	98
35) Methylcyclohexane	6.72	83	24829	0.667	ug/L #	16
37) 1,2-Dichloropropane	6.72	63	12125	0.529	ug/L #	87
39) cis-1,3-Dichloropropene	7.59	75	2822	0.079	ug/L #	56
45) 1,1,2-Trichloroethane	8.42	97	5159	0.334	ug/L	95

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Response via : Initial Calibration

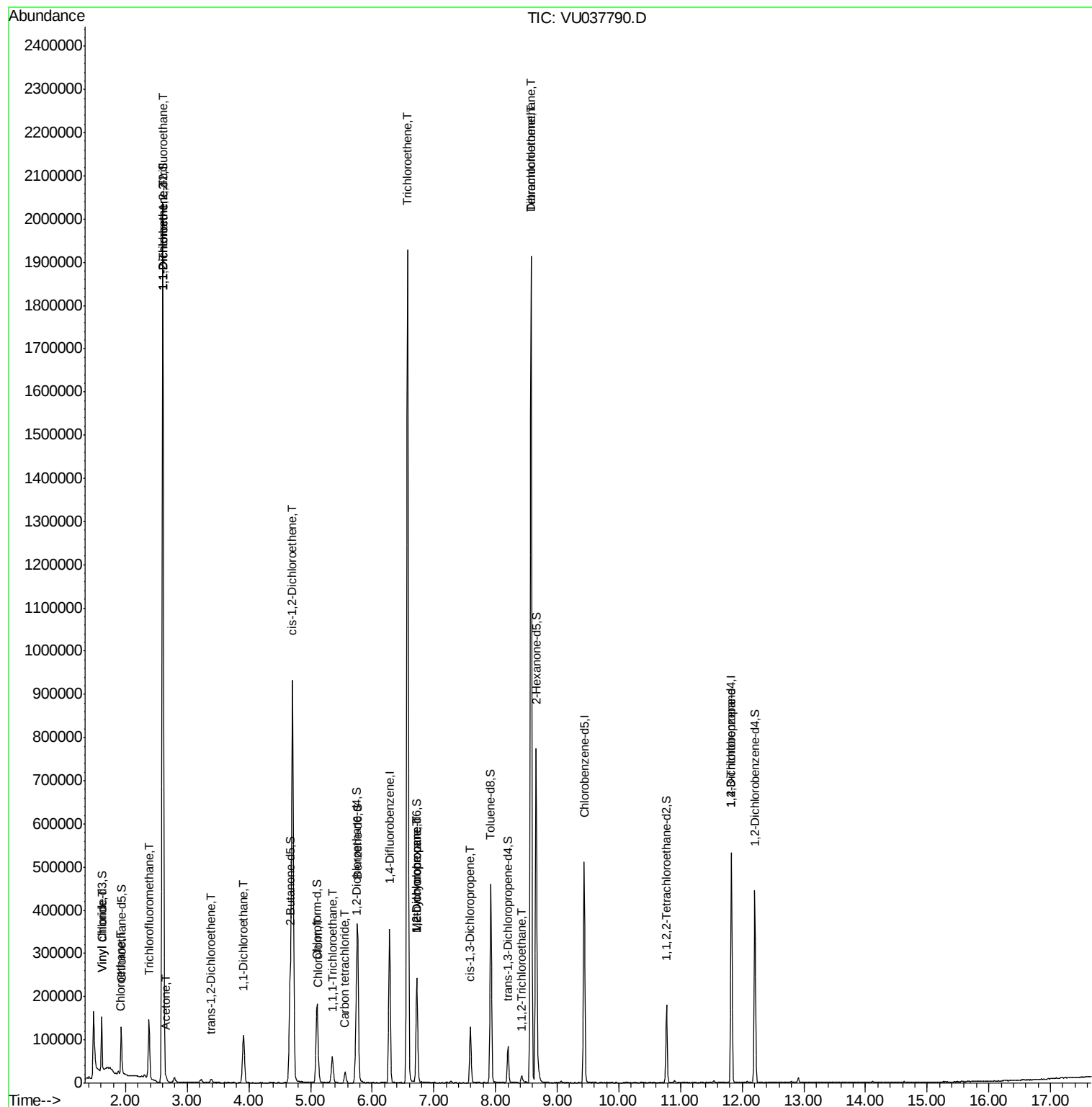
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.57	164	404119	26.493	ug/L	99
49) Dibromochloromethane	8.57	129	388110	21.999	ug/L #	11
59) 1,2,3-Trichloropropane	11.83	75	18442	1.230	ug/L	92

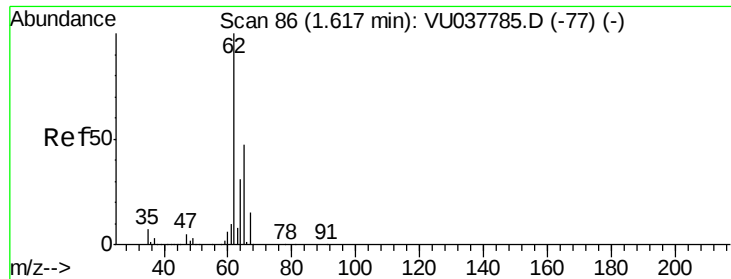
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.095 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037790.D

Acq: 17 Apr 2020 23:01

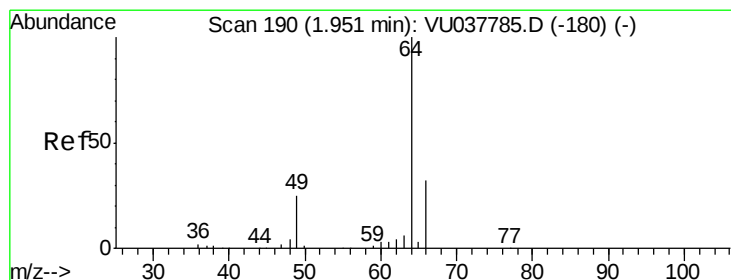
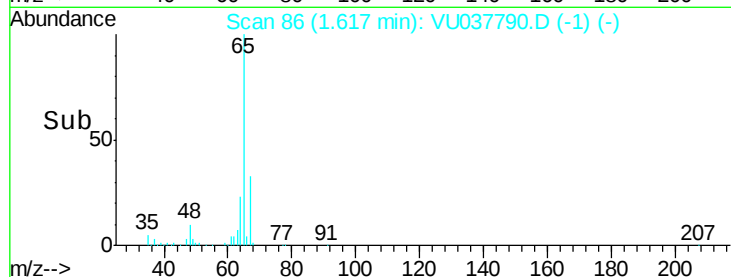
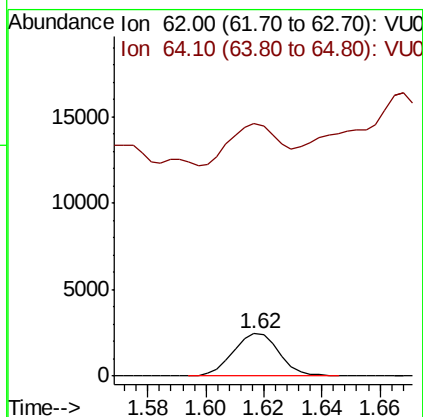
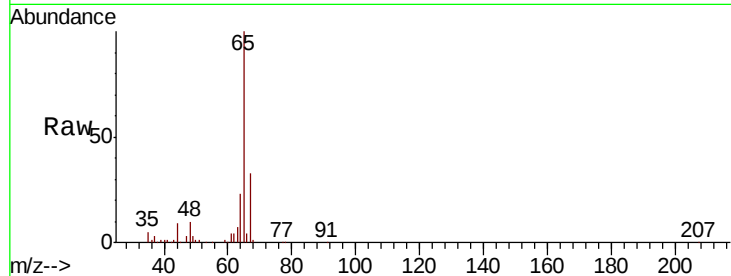
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 2715

Ion Ratio Lower Upper

62 100

64 590.8 22.1 41.1#



#8

Chloroethane

Concen: 0.095 ug/L

RT: 1.91 min Scan# 177

Delta R.T. -0.04 min

Lab File: VU037790.D

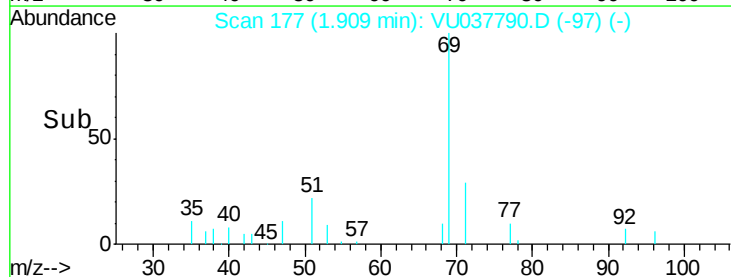
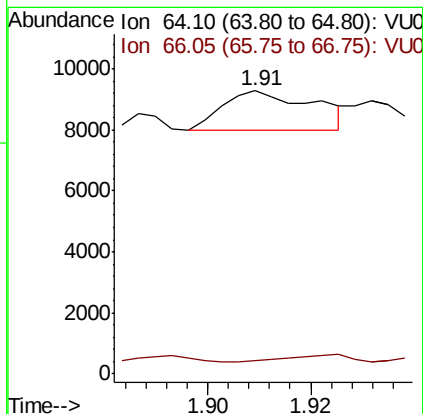
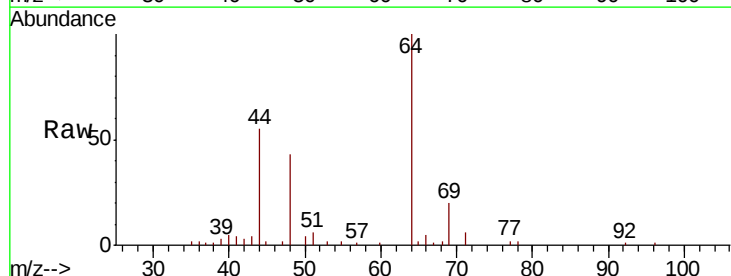
Acq: 17 Apr 2020 23:01

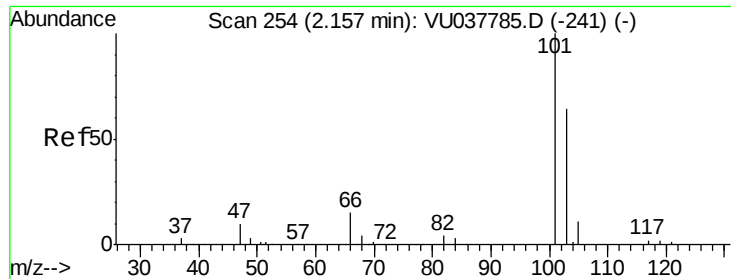
Tgt Ion: 64 Resp: 1587

Ion Ratio Lower Upper

64 100

66 4.8 22.3 41.5#



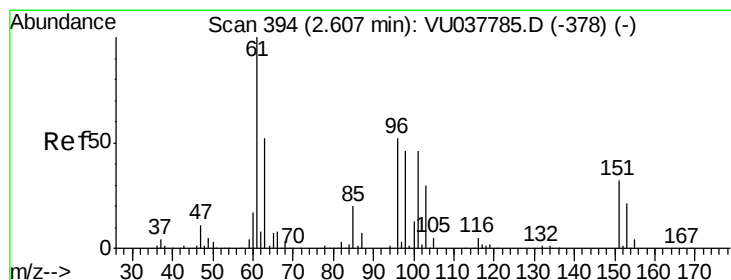
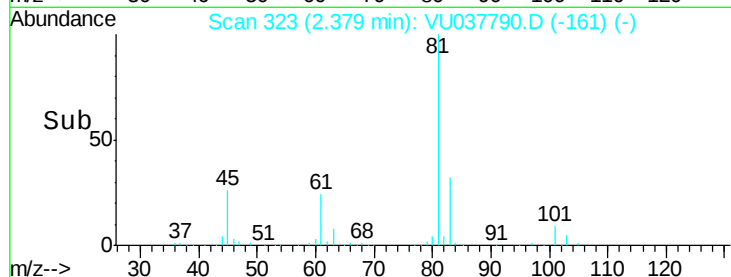
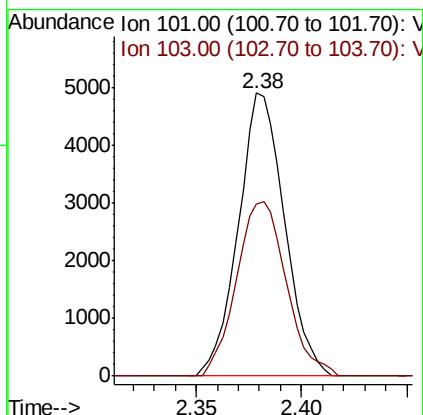
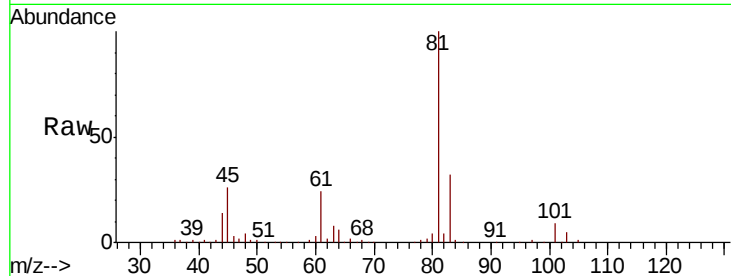


#9

Trichlorofluoromethane
 Concen: 0.244 ug/L
 RT: 2.38 min Scan# 323
 Delta R.T. 0.22 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Instrument :
 MSVOA_U
 ClientSampled :

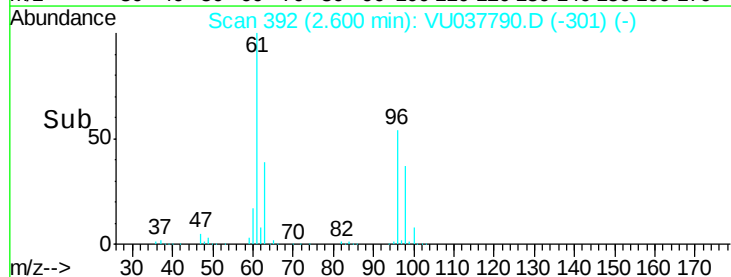
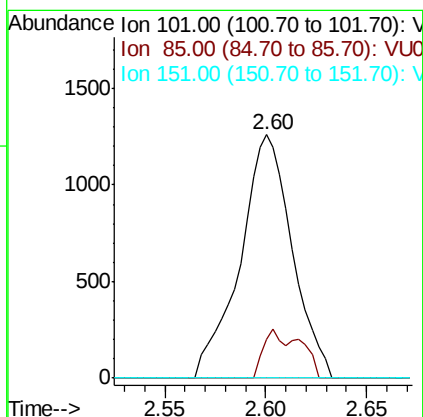
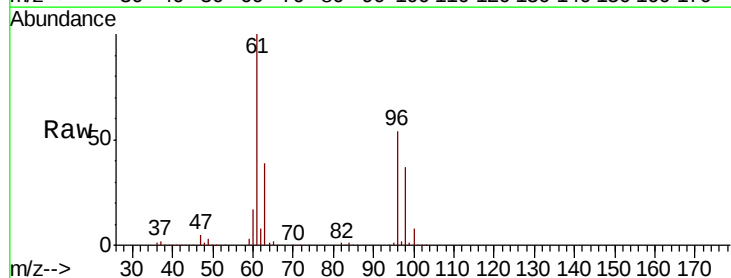
Tot Ion:101 Resp: 7460
 Ion Ratio Lower Upper
 101 100
 103 66.4 51.0 76.6

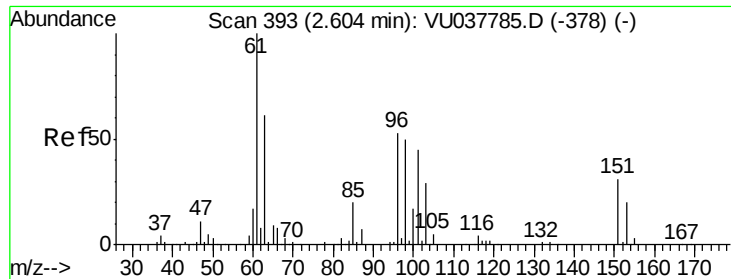


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.127 ug/L
 RT: 2.60 min Scan# 392
 Delta R.T. -0.01 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Tgt Ion:101 Resp: 2266
 Ion Ratio Lower Upper
 101 100
 85 7.9 34.5 51.7#
 151 0.0 56.9 85.3#





#12

1,1-Dichloroethene

Concen: 33.045 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037790.D

Acq: 17 Apr 2020 23:01

Instrument :
MSVOA_U
ClientSampleId :

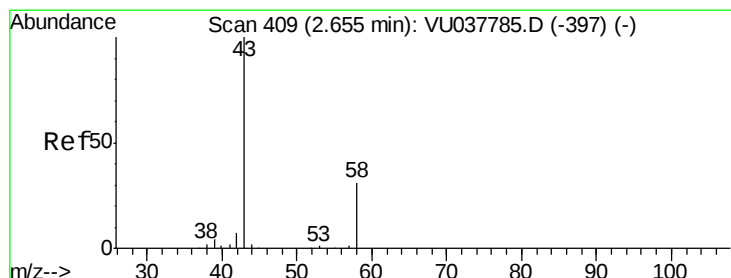
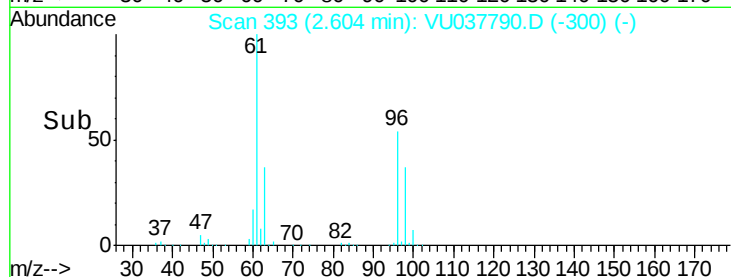
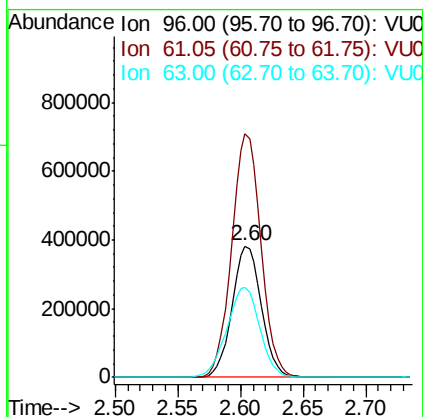
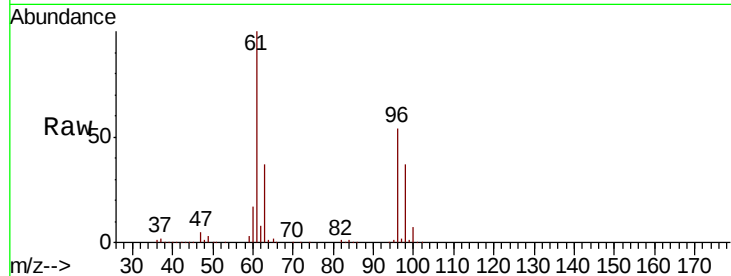
Tot Ion: 96 Resp: 616949

Ion Ratio Lower Upper

96 100

61 185.8 127.7 237.3

63 69.0 85.0 157.8#



#13

Acetone

Concen: 3.157 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037790.D

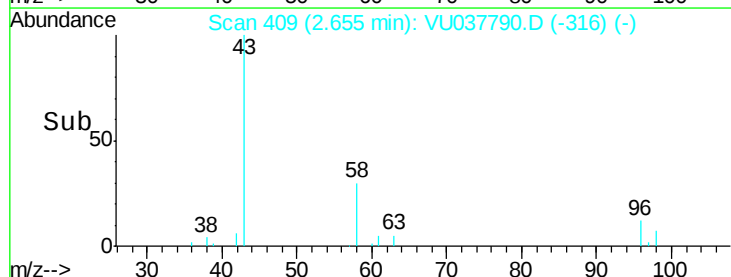
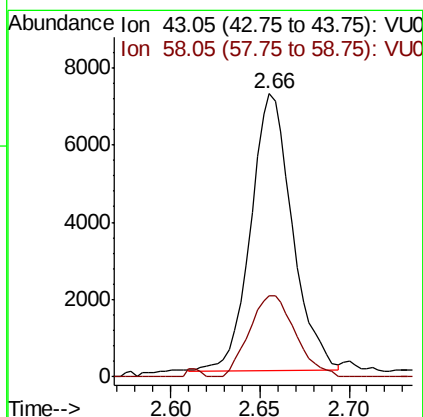
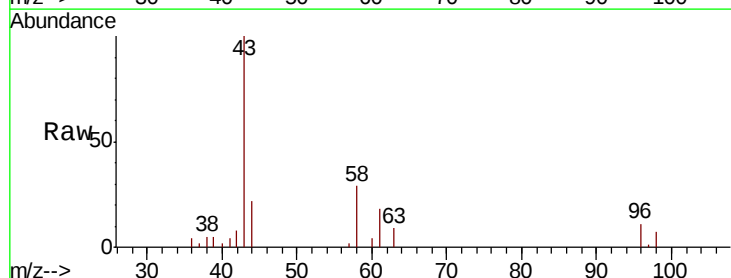
Acq: 17 Apr 2020 23:01

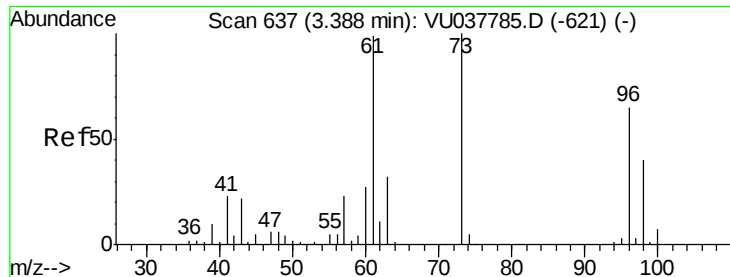
Tgt Ion: 43 Resp: 11703

Ion Ratio Lower Upper

43 100

58 32.4 0.0 64.8

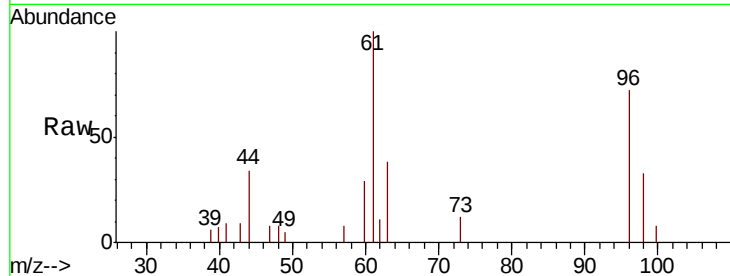




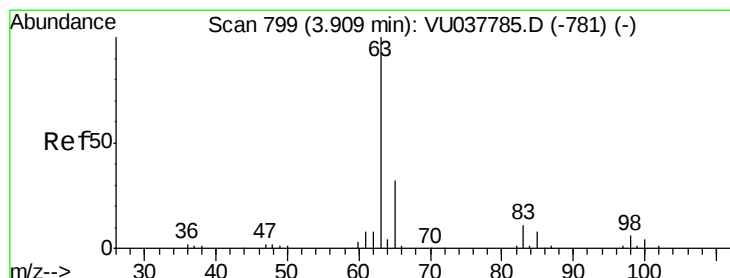
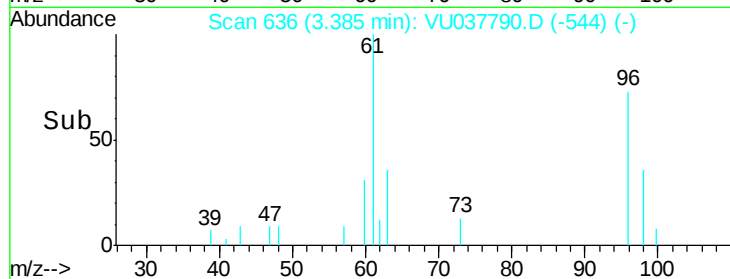
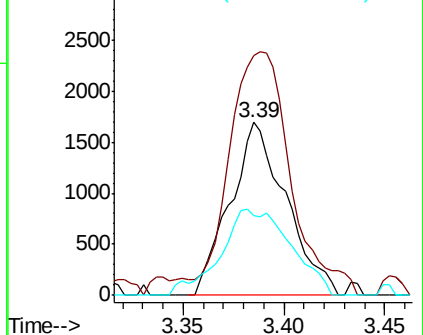
#18
trans-1,2-Dichloroethene
Concen: 0.162 ug/L
RT: 3.39 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU037790.D
Acq: 17 Apr 2020 23:01

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 3281
Ion Ratio Lower Upper
96 100
61 139.1 106.7 198.3
98 45.9 44.3 82.3

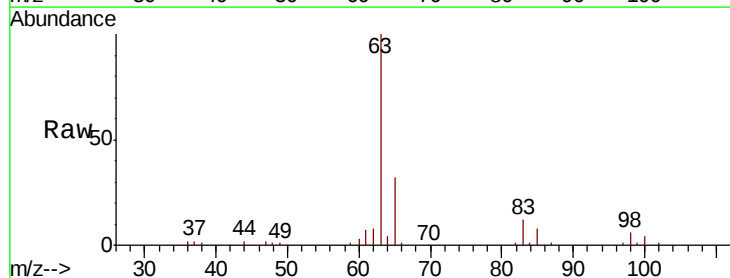


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

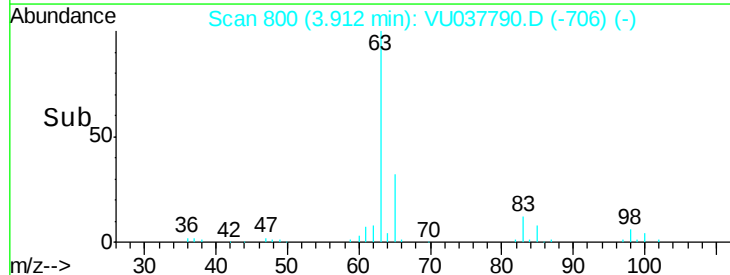
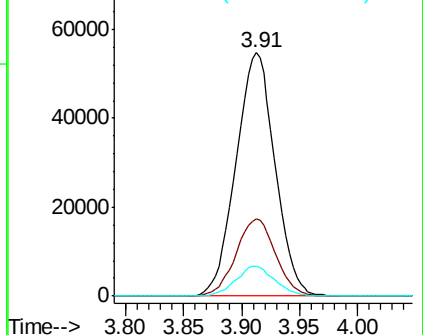


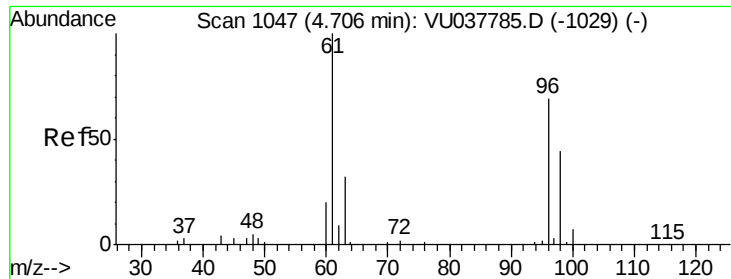
#19
1,1-Dichloroethane
Concen: 3.266 ug/L
RT: 3.91 min Scan# 800
Delta R.T. 0.00 min
Lab File: VU037790.D
Acq: 17 Apr 2020 23:01

Tgt Ion: 63 Resp: 127865
Ion Ratio Lower Upper
63 100
65 31.8 21.6 40.2
83 12.4 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 20.355 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037790.D

Acq: 17 Apr 2020 23:01

Instrument :
MSVOA_U
ClientSampled :

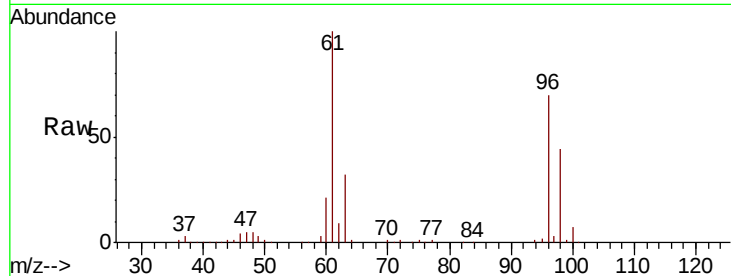
Tot Ion: 96 Resp: 445154

Ion Ratio Lower Upper

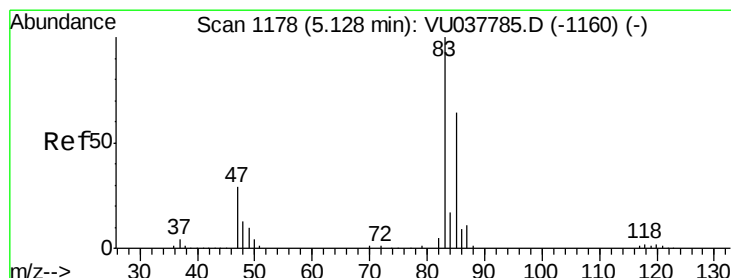
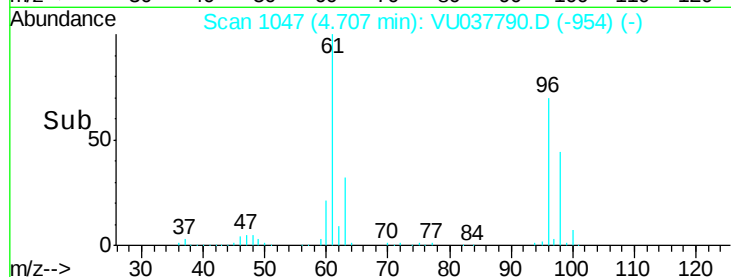
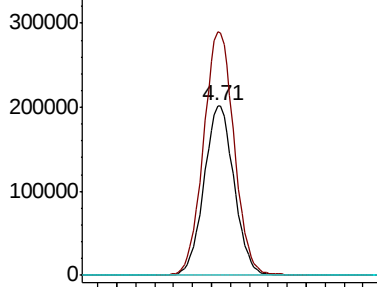
96 100

61 143.3 97.0 180.2

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: 0.496 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037790.D

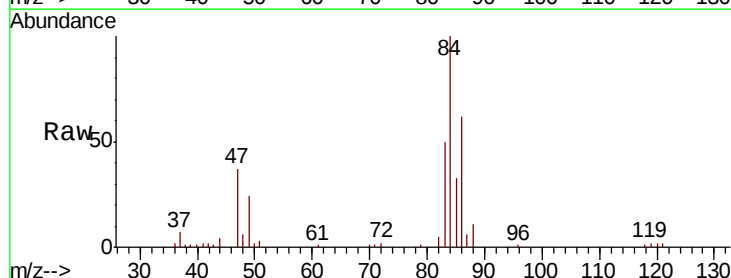
Acq: 17 Apr 2020 23:01

Tgt Ion: 83 Resp: 18433

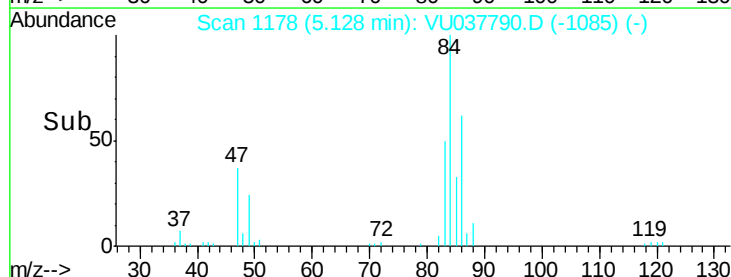
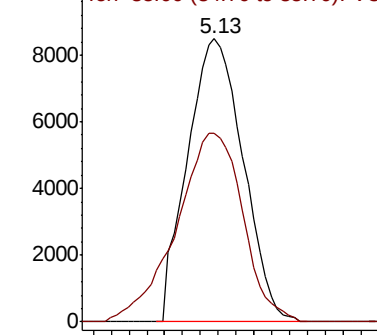
Ion Ratio Lower Upper

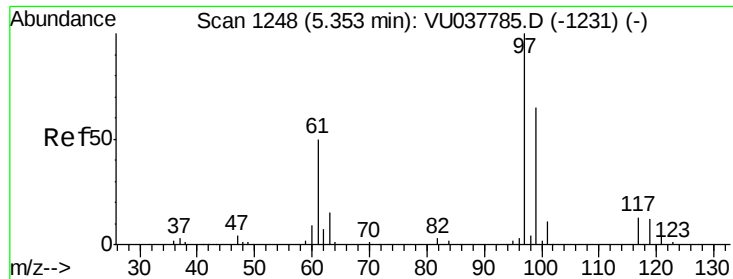
83 100

85 66.5 44.9 83.3



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

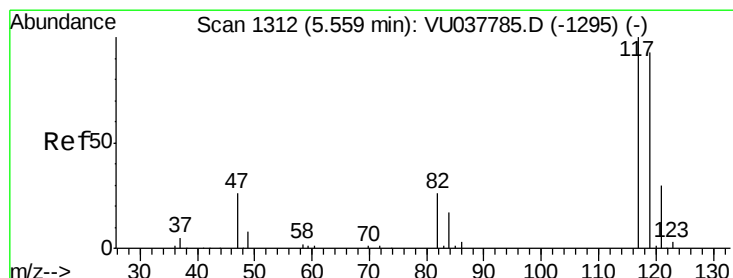
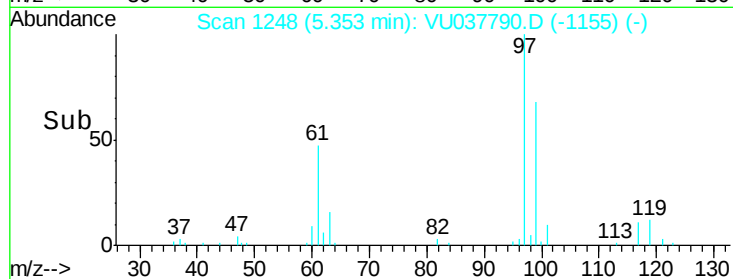
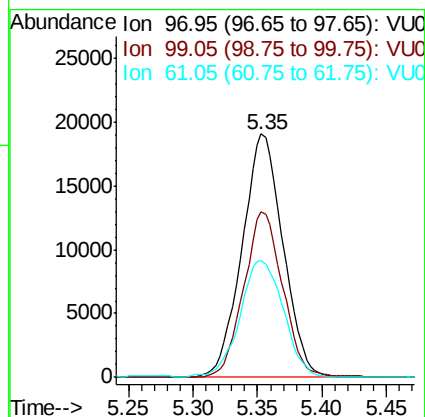
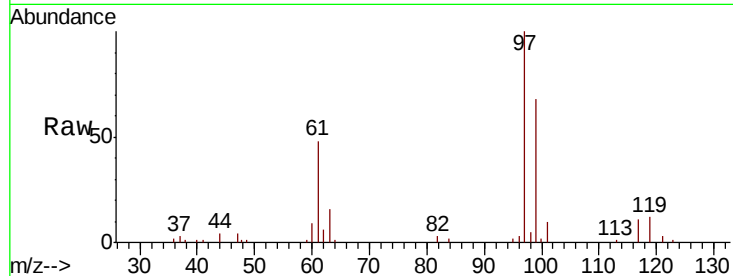




#29
 1,1,1-Trichloroethane
 Concen: 1.329 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

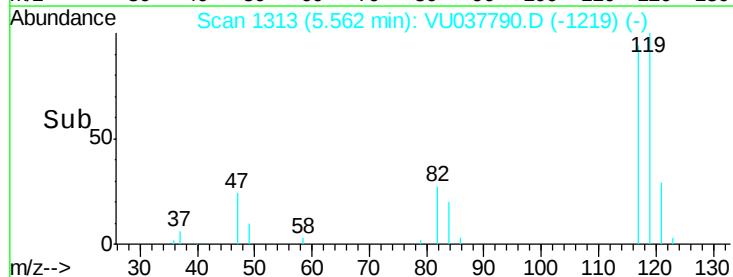
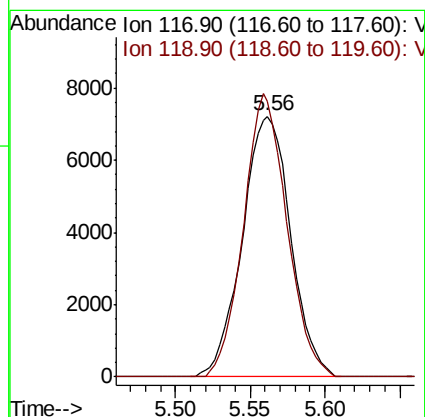
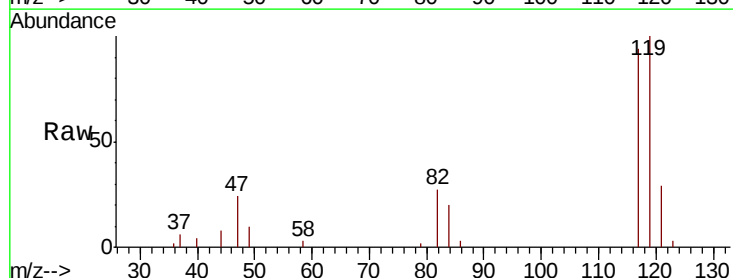
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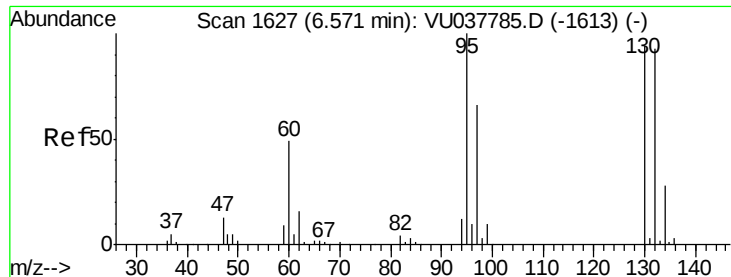
Tot Ion: 97 Resp: 42158
 Ion Ratio Lower Upper
 97 100
 99 64.9 52.0 78.0
 61 51.1 37.8 56.8



#31
 Carbon tetrachloride
 Concen: 0.641 ug/L
 RT: 5.56 min Scan# 1313
 Delta R.T. 0.00 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Tgt Ion: 117 Resp: 16207
 Ion Ratio Lower Upper
 117 100
 119 97.7 77.4 116.0

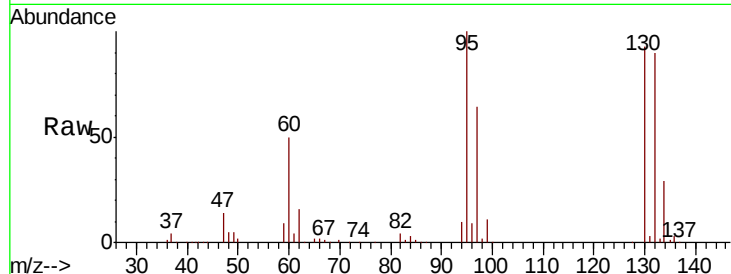




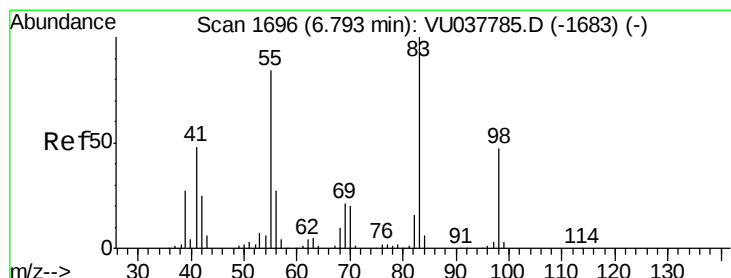
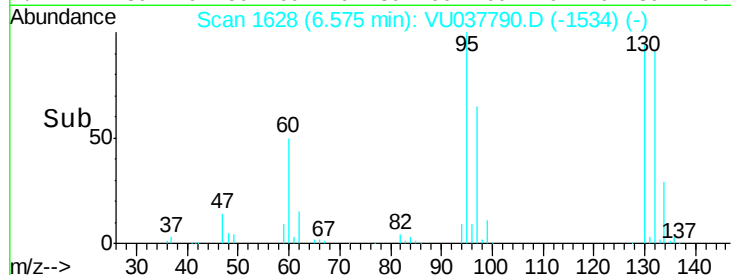
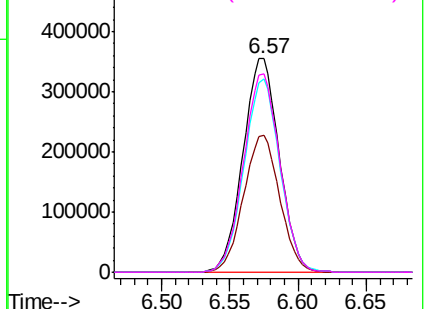
#34
 Trichloroethene
 Concen: 30.918 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 656309
 Ion Ratio Lower Upper
 95 100
 97 64.3 45.4 84.2
 132 90.4 63.7 118.3
 130 92.7 68.7 127.5

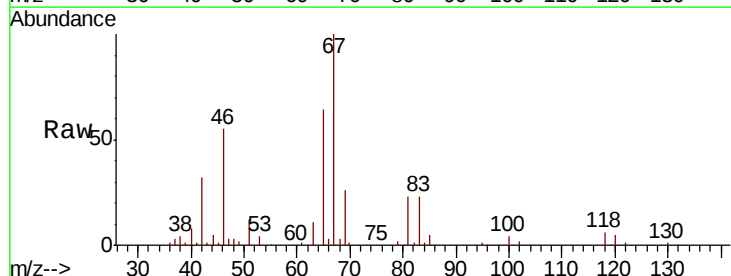


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

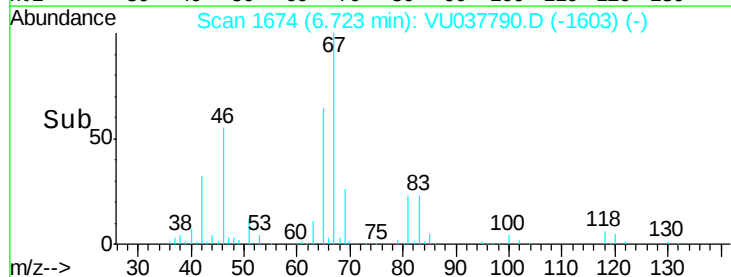
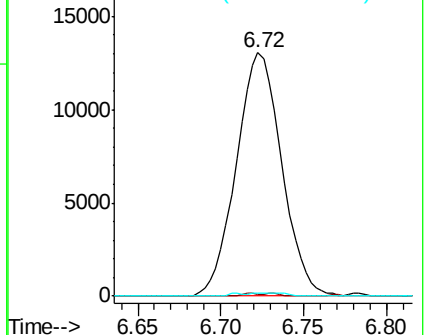


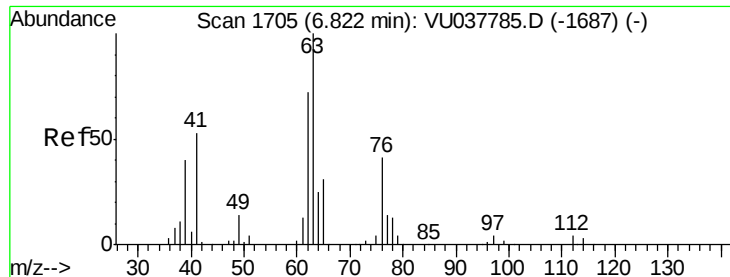
#35
 Methylcyclohexane
 Concen: 0.667 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Tgt Ion: 83 Resp: 24829
 Ion Ratio Lower Upper
 83 100
 55 0.5 65.5 98.3#
 98 0.0 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

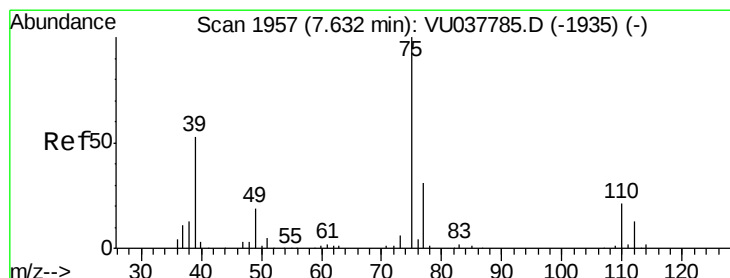
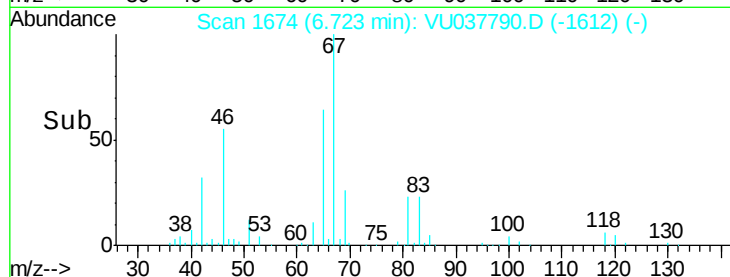
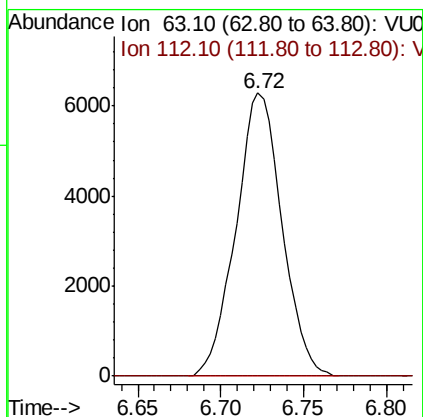
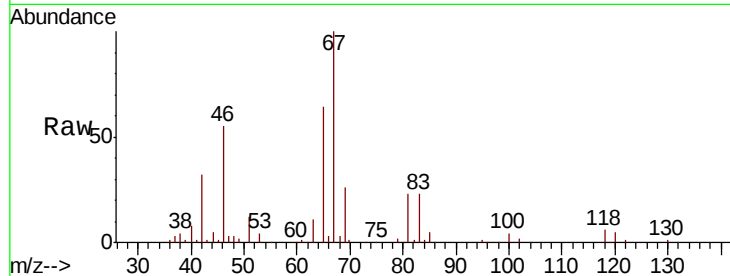




#37
 1,2-Dichloropropane
 Concen: 0.529 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

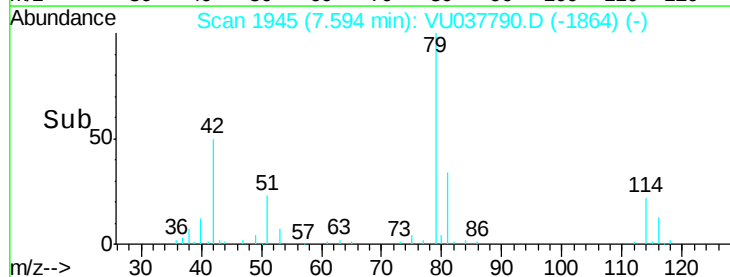
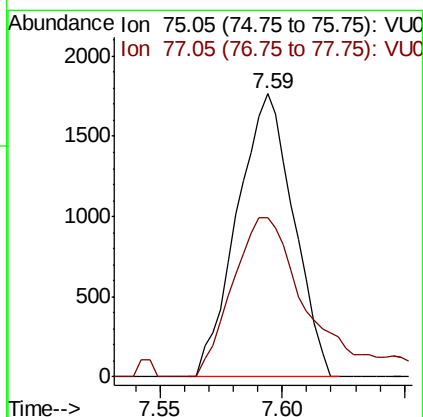
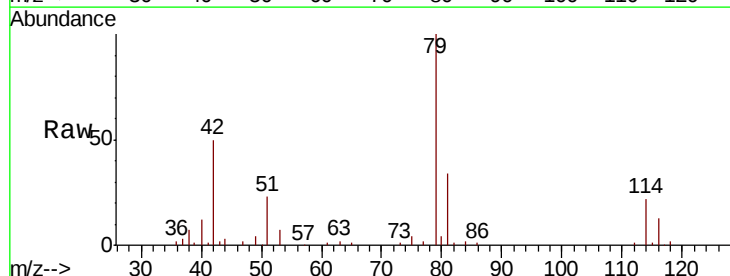
Instrument :
 MSVOA_U
 ClientSampleId :

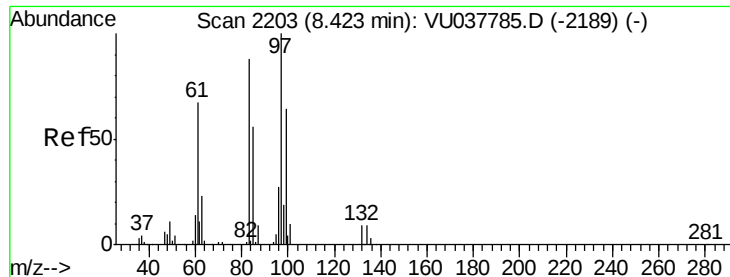
Tot Ion: 63 Resp: 12125
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.079 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Tgt Ion: 75 Resp: 2822
 Ion Ratio Lower Upper
 75 100
 77 56.3 22.2 41.2#

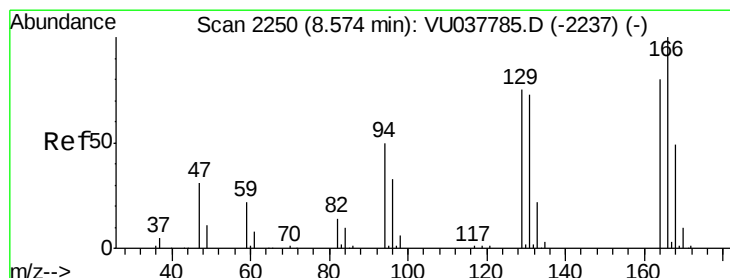
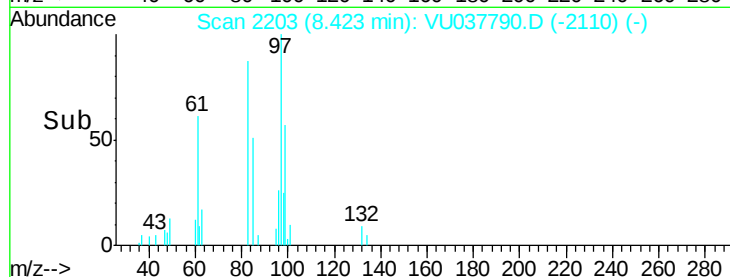
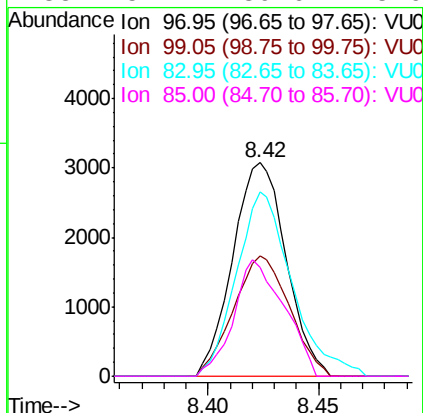
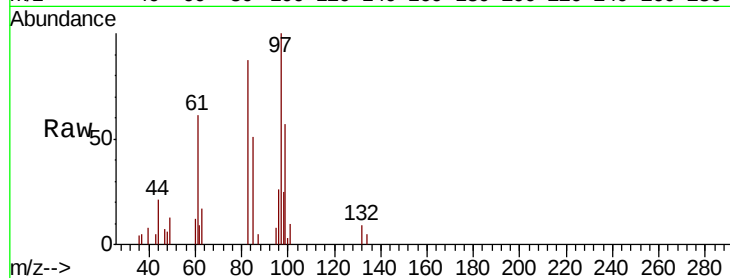




#45
 1,1,2-Trichloroethane
 Concen: 0.334 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

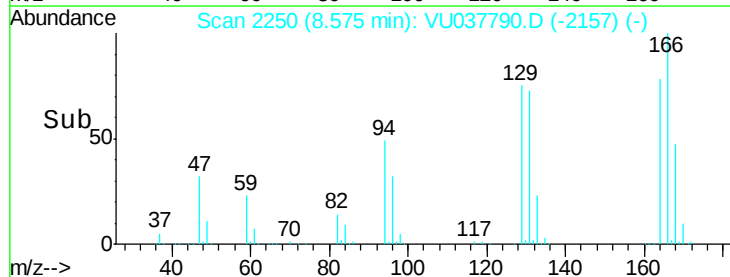
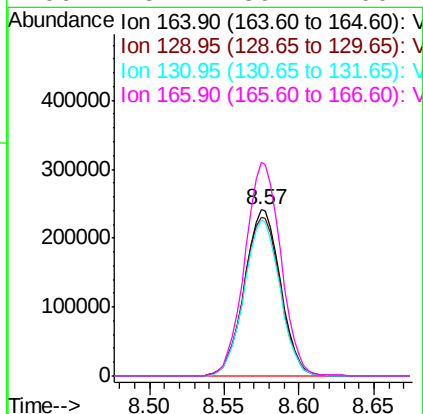
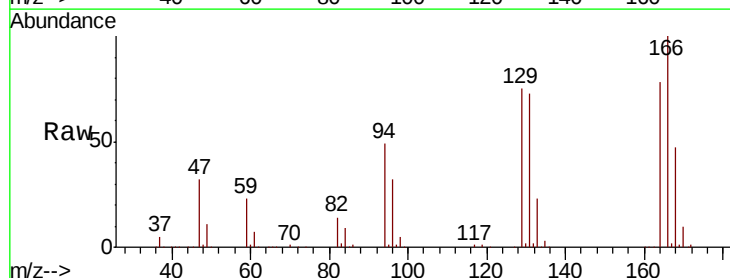
Instrument :
 MSVOA_U
 ClientSampleId :

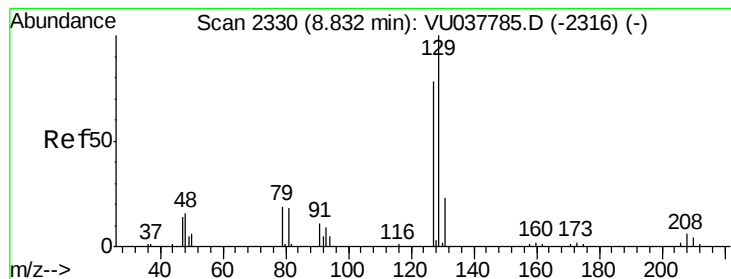
Tot Ion:	97	Resp:	5159
Ion	Ratio	Lower	Upper
97	100		
99	56.6	43.1	80.1
83	86.5	62.4	116.0
85	51.1	39.6	73.6



#47
 Tetrachloroethene
 Concen: 26.493 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU037790.D
 Acq: 17 Apr 2020 23:01

Tgt Ion:	164	Resp:	404119
Ion	Ratio	Lower	Upper
164	100		
129	96.0	68.1	126.5
131	94.3	65.9	122.5
166	128.7	89.7	166.7





#49

Dibromochloromethane

Concen: 21.999 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU037790.D

Acq: 17 Apr 2020 23:01

Instrument :

MSVOA_U

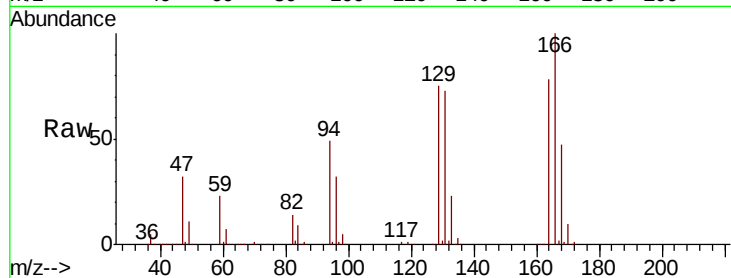
ClientSampleId :

Tot Ion:129 Resp: 388110

Ion Ratio Lower Upper

129 100

127 0.1 53.3 98.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.57

250000

200000

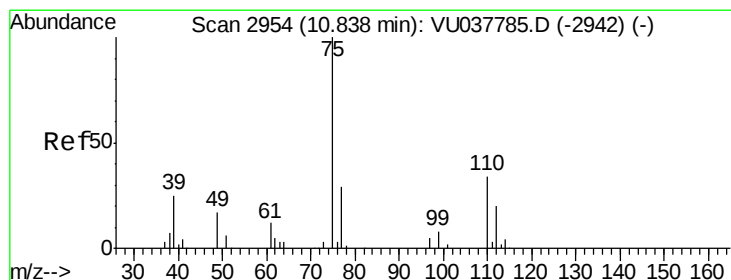
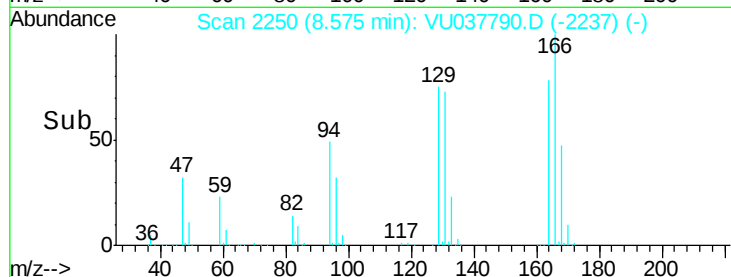
150000

100000

50000

0

Time--> 8.50 8.55 8.60 8.65



#59

1,2,3-Trichloropropane

Concen: 1.230 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.99 min

Lab File: VU037790.D

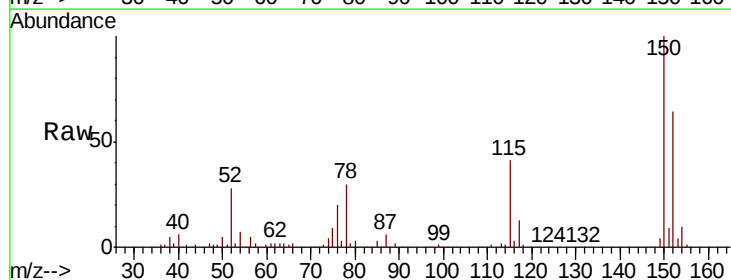
Acq: 17 Apr 2020 23:01

Tgt Ion: 75 Resp: 18442

Ion Ratio Lower Upper

75 100

77 36.5 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.83

10000

5000

0

Time--> 11.75 11.80 11.85 11.90

