

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042220\
 Data File : VU037855.D
 Acq On : 22 Apr 2020 20:10
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 23 01:40:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 23 01:37:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	288012	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	279174	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	141973	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	90201	4.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.80%
7) Chloroethane-d5	1.93	69	81927	4.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.00%
11) 1,1-Dichloroethene-d2	2.59	63	170695	4.41	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.20%
20) 2-Butanone-d5	4.66	46	318890	53.28	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.56%
24) Chloroform-d	5.10	84	168756	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.74	65	100179	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
32) Benzene-d6	5.76	84	358109	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.72	67	119793	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.92	98	327810	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
43) trans-1,3-Dichloropropene-	8.20	79	49759	4.51	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.20%
46) 2-Hexanone-d5	8.65	63	278487	49.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.68%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	96808	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	121196	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	116610	4.667 ug/L	99
3) Chloromethane	1.54	50	126943	4.109 ug/L	99
5) Vinyl chloride	1.62	62	140923	4.644 ug/L	98
6) Bromomethane	1.87	94	55953	3.211 ug/L	95
8) Chloroethane	1.95	64	80496	4.517 ug/L	99
9) Trichlorofluoromethane	2.16	101	154738	4.752 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	89522	4.722 ug/L	98
12) 1,1-Dichloroethene	2.60	96	87003	4.377 ug/L	95
13) Acetone	2.65	43	175043	44.356 ug/L	95
14) Carbon disulfide	2.82	76	300722	4.144 ug/L	100
15) Methyl Acetate	2.98	43	48452	4.416 ug/L	98
16) Methylene chloride	3.08	84	103307	4.610 ug/L	96
17) Methyl tert-butyl Ether	3.40	73	260497	4.526 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	97721	4.535 ug/L	99
19) 1,1-Dichloroethane	3.91	63	201041	4.824 ug/L	99
21) 2-Butanone	4.75	43	333985	46.580 ug/L	98
22) cis-1,2-Dichloroethene	4.71	96	109073	4.685 ug/L	99

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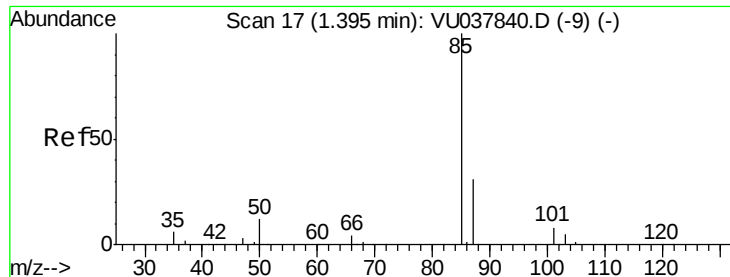
Instrument :
 MSVOA_U
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Quant Time: Apr 23 01:40:38 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.02	128	44864	4.547	ug/L	98
25) Chloroform	5.13	83	194194	4.905	ug/L	98
27) 1,2-Dichloroethane	5.83	62	130085	4.861	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	161702	4.774	ug/L	98
30) Cyclohexane	5.42	56	198522	4.735	ug/L	96
31) Carbon tetrachloride	5.56	117	127846	4.736	ug/L	99
33) Benzene	5.81	78	428398	4.644	ug/L	100
34) Trichloroethene	6.57	95	105177	4.640	ug/L	98
35) Methylcyclohexane	6.79	83	184870	4.653	ug/L	98
37) 1,2-Dichloropropane	6.82	63	116219	4.751	ug/L	99
38) Bromodichloromethane	7.13	83	133852	4.601	ug/L	96
39) cis-1,3-Dichloropropene	7.63	75	173791	4.538	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	841034	46.763	ug/L	98
42) Toluene	7.99	91	452719	4.686	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	150166	4.517	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	75224	4.563	ug/L	98
47) Tetrachloroethene	8.57	164	76333	4.686	ug/L	98
48) 2-Hexanone	8.71	43	594243	46.148	ug/L	99
49) Dibromochloromethane	8.83	129	85636	4.546	ug/L	95
50) 1,2-Dibromoethane	8.94	107	70904	4.473	ug/L	94
51) Chlorobenzene	9.47	112	277510	4.708	ug/L	99
52) Ethylbenzene	9.59	91	505602	4.704	ug/L	99
53) m,p-Xylene	9.71	106	190386	4.680	ug/L	99
54) o-Xylene	10.12	106	184893	4.618	ug/L	96
55) Styrene	10.13	104	315625	4.611	ug/L	98
56) Isopropylbenzene	10.50	105	492982	4.694	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	99643	4.643	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	74499	4.653	ug/L	99
61) Bromoform	10.31	173	48135	4.267	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	218792	4.601	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	217390	4.559	ug/L	100
65) 1,2-Dichlorobenzene	12.22	146	205057	4.581	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	17408	4.195	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	159173	4.565	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	143276	4.476	ug/L	98
69) Naphthalene	14.11	128	269182	4.153	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	128579	4.509	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.667 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

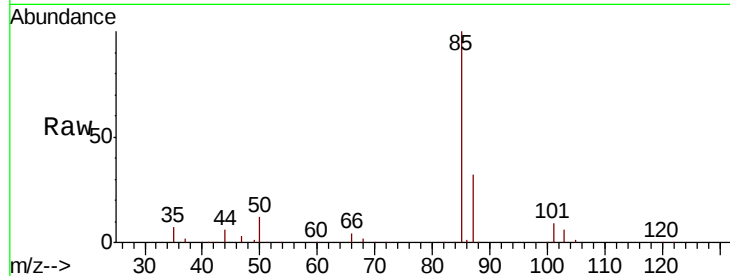
ClientSampleId :

Tot Ion: 85 Resp: 116610

Ion Ratio Lower Upper

85 100

87 32.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037840.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037840.D (-9) (-)

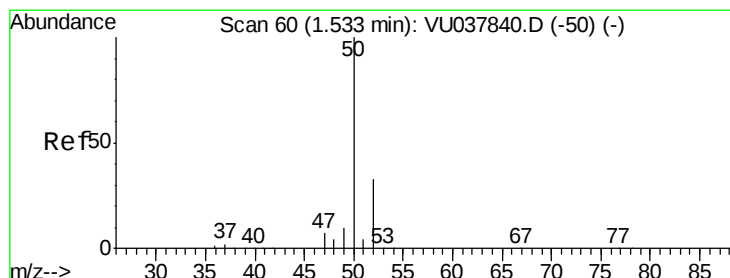
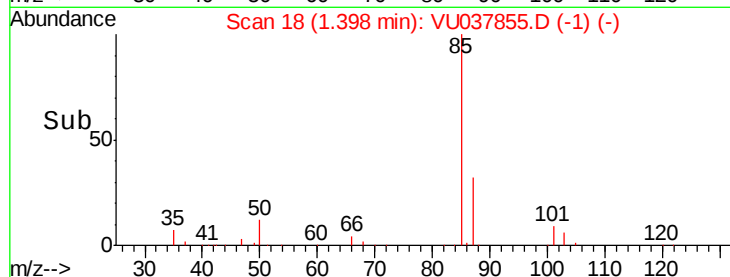
1.40

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.109 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037855.D

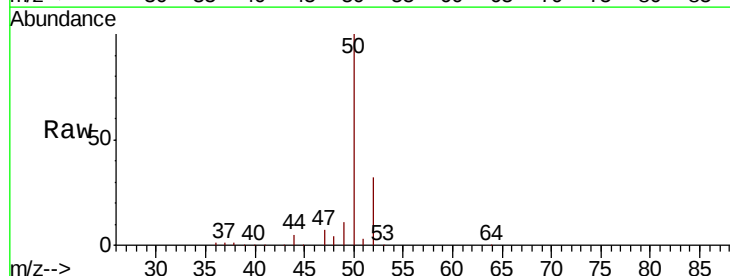
Acq: 22 Apr 2020 20:10

Tgt Ion: 50 Resp: 126943

Ion Ratio Lower Upper

50 100

52 32.0 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU037840.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU037840.D (-50) (-)

1.54

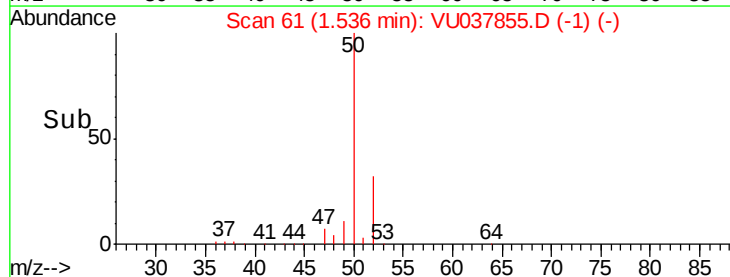
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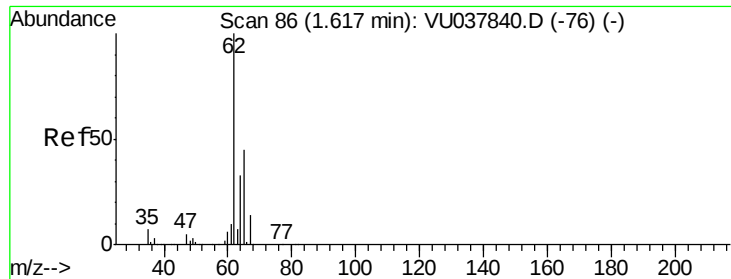
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.644 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

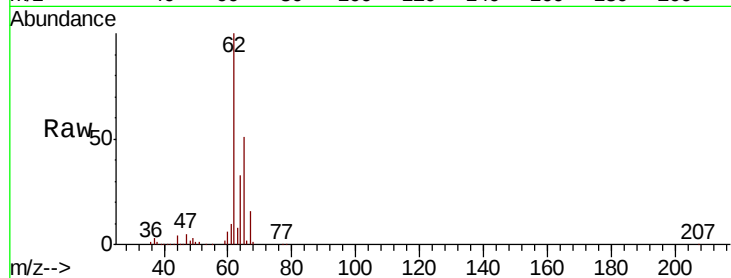
ClientSampleId :

Tot Ion: 62 Resp: 140923

Ion Ratio Lower Upper

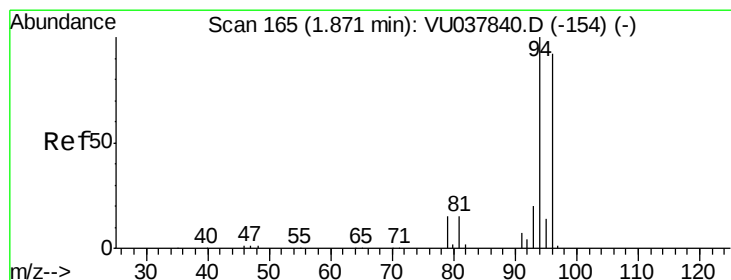
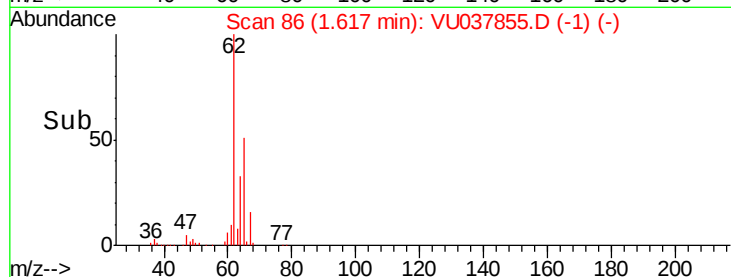
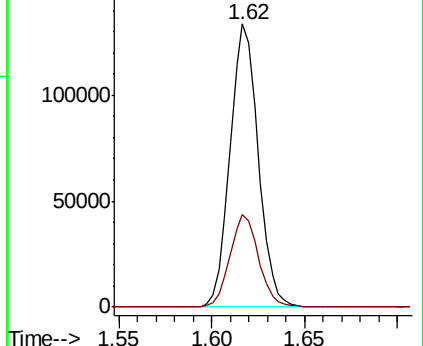
62 100

64 32.5 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037840.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU037840.D (-76) (-)



#6

Bromomethane

Concen: 3.211 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037855.D

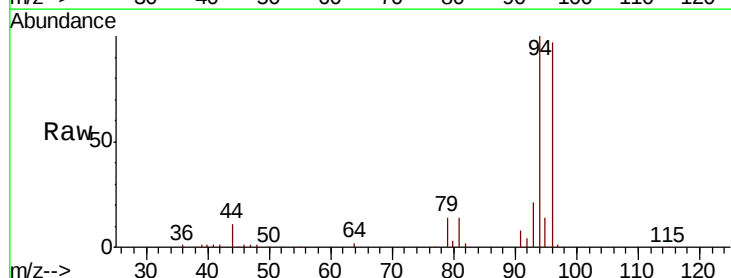
Acq: 22 Apr 2020 20:10

Tgt Ion: 94 Resp: 55953

Ion Ratio Lower Upper

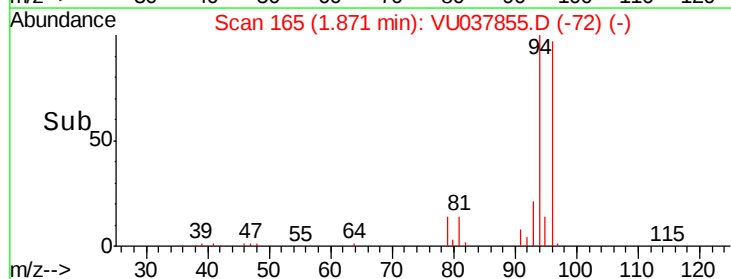
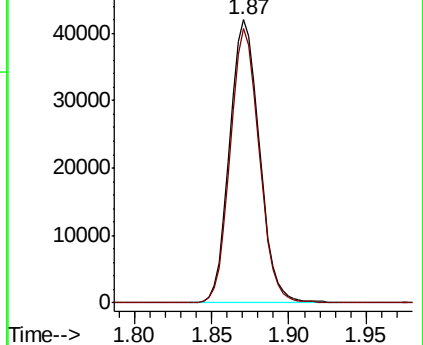
94 100

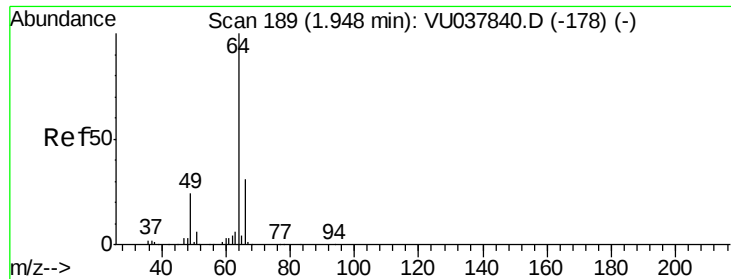
96 96.9 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037840.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU037840.D (-154) (-)

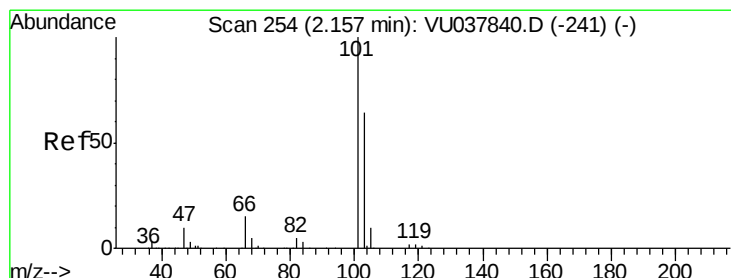
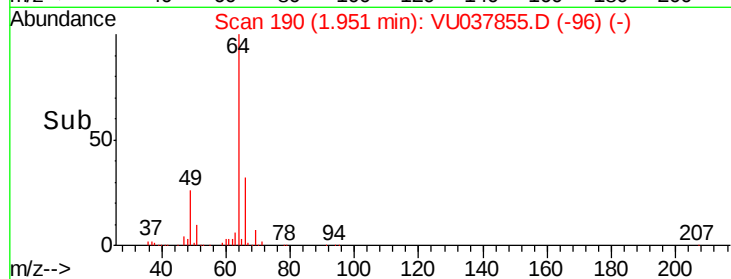
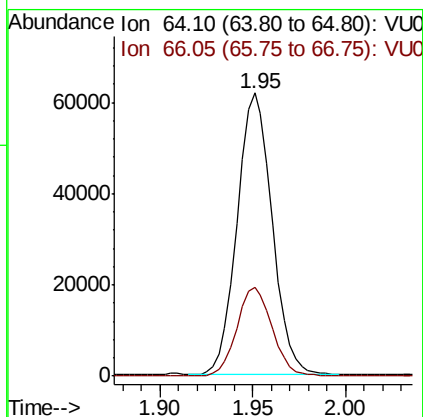
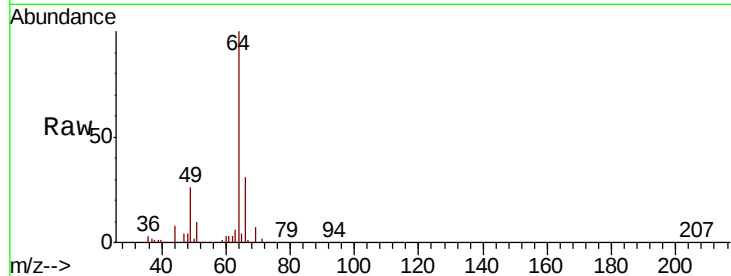




#8
Chloroethane
Concen: 4.517 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

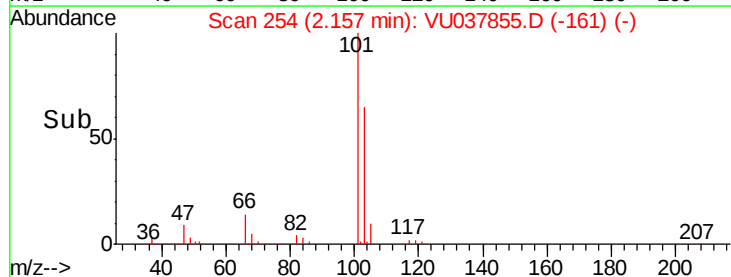
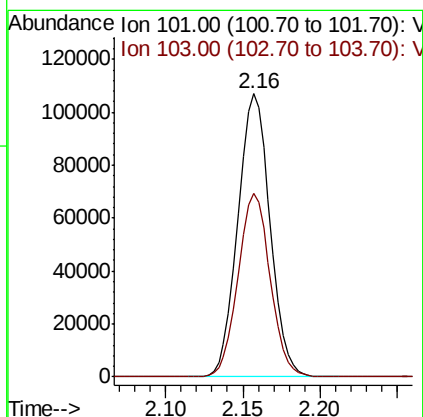
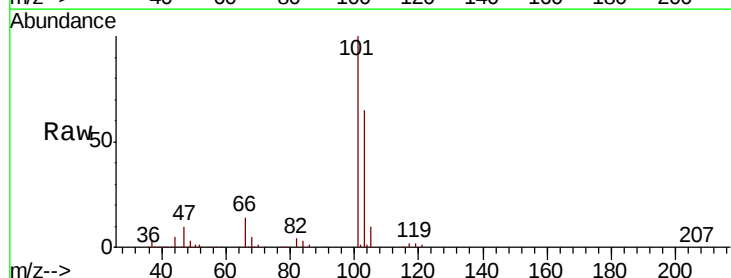
Instrument :
MSVOA_U
ClientSampleId :

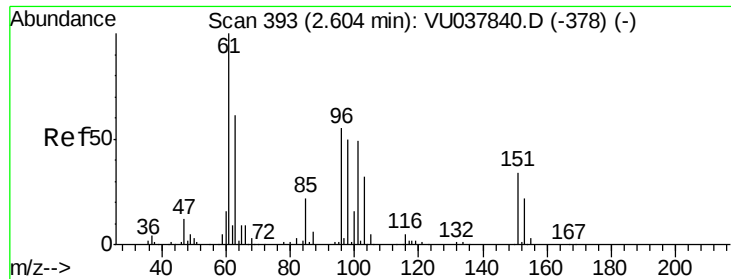
Tot Ion: 64 Resp: 80496
Ion Ratio Lower Upper
64 100
66 31.4 22.3 41.5



#9
Trichlorofluoromethane
Concen: 4.752 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion:101 Resp: 154738
Ion Ratio Lower Upper
101 100
103 64.6 51.0 76.6





#10

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

Concen: 4.722 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

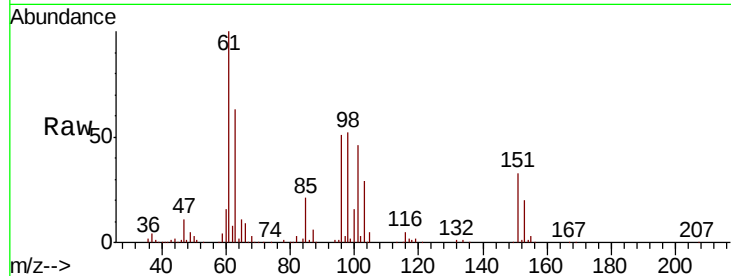
Tot Ion:101 Resp: 89522

Ion Ratio Lower Upper

101 100

85 45.3 34.5 51.7

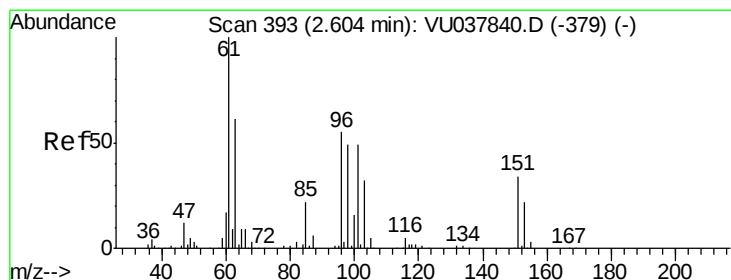
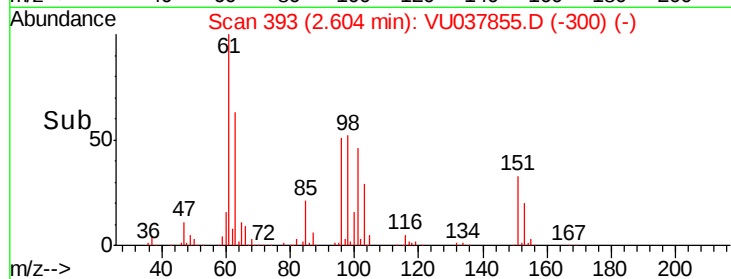
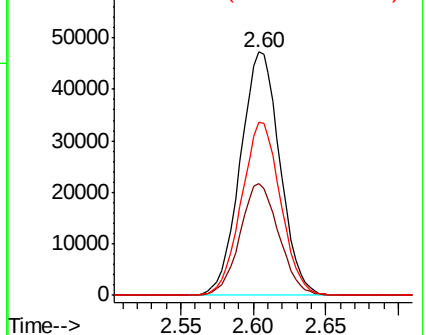
151 70.5 56.9 85.3



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



#12

1,1-Dichloroethene

Concen: 4.377 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

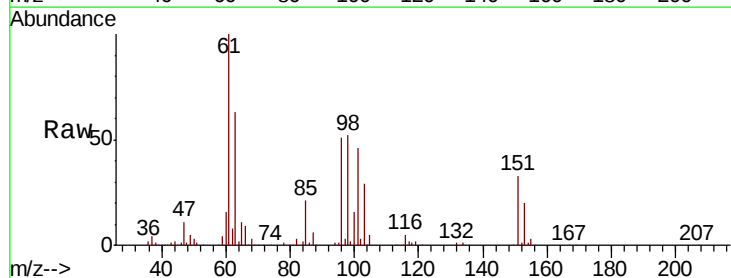
Tgt Ion: 96 Resp: 87003

Ion Ratio Lower Upper

96 100

61 194.3 127.7 237.3

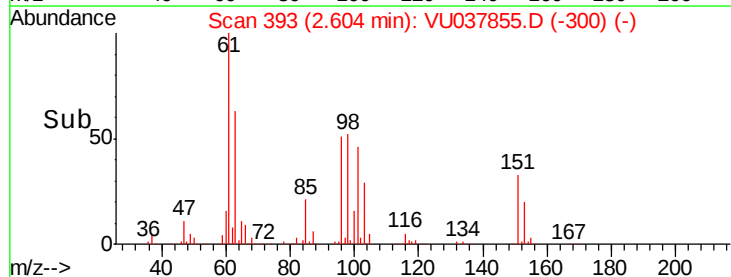
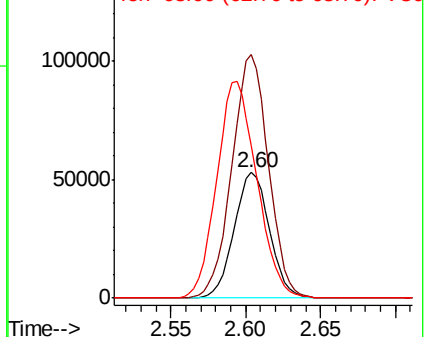
63 121.4 85.0 157.8

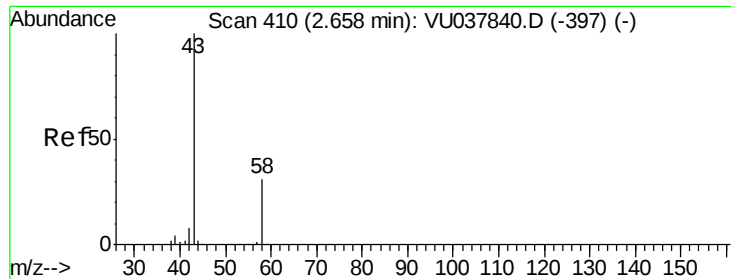


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.356 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

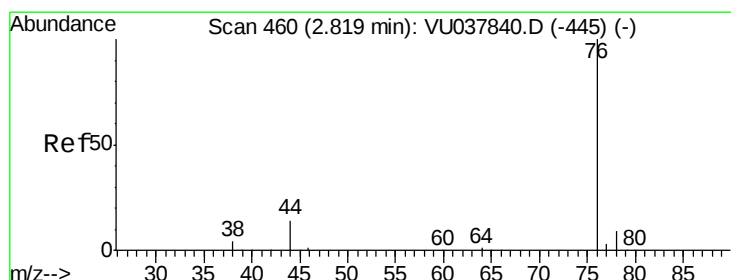
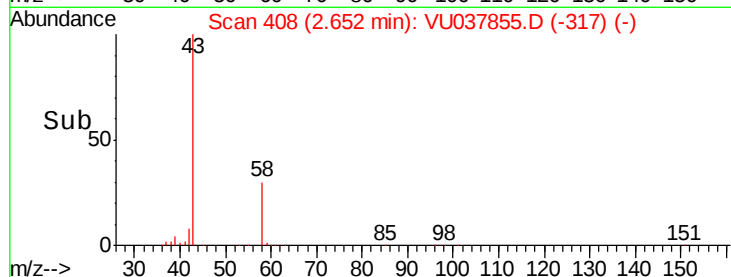
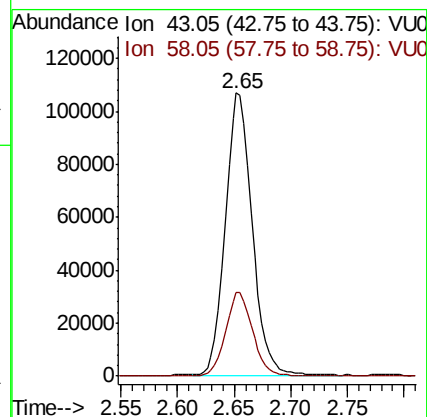
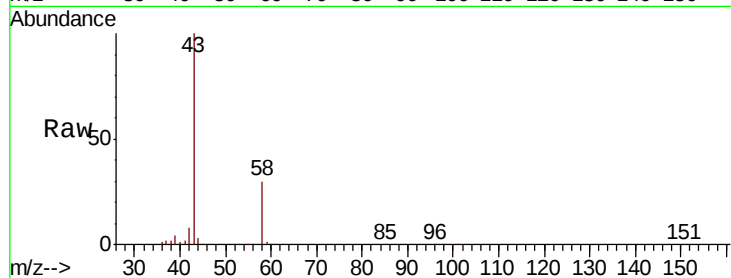
ClientSampled :

Tot Ion: 43 Resp: 175043

Ion Ratio Lower Upper

43 100

58 29.7 0.0 64.8



#14

Carbon disulfide

Concen: 4.144 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037855.D

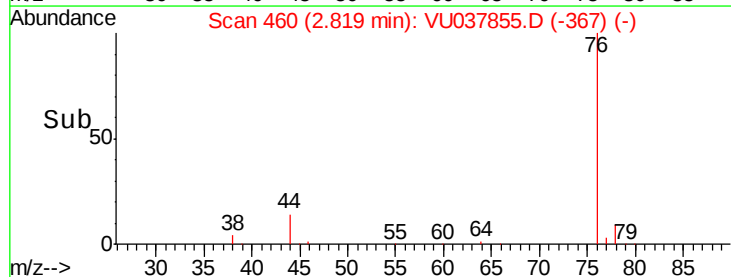
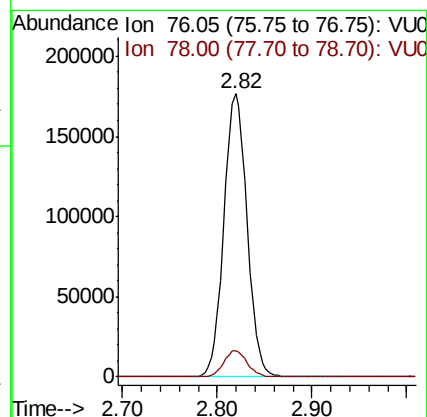
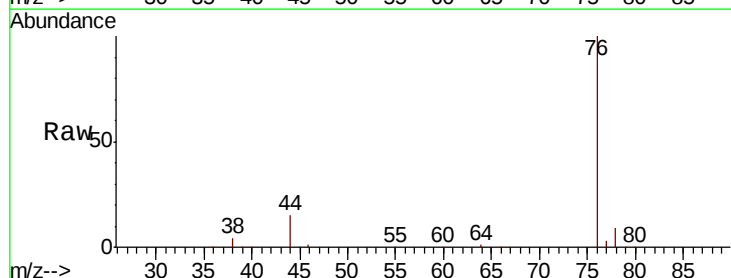
Acq: 22 Apr 2020 20:10

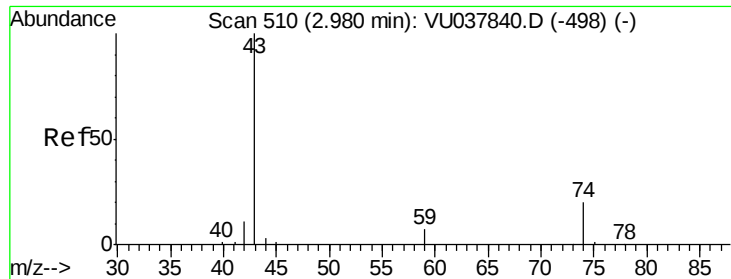
Tgt Ion: 76 Resp: 300722

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0

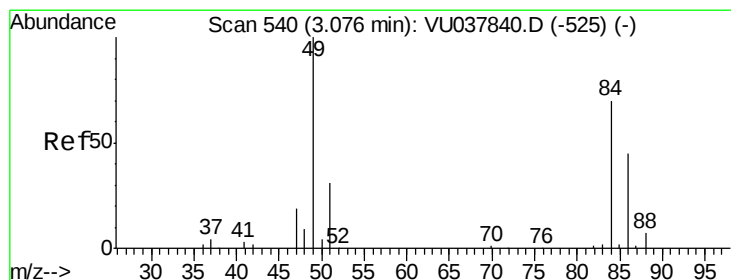
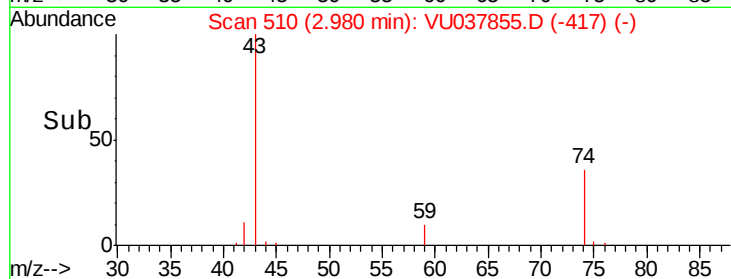
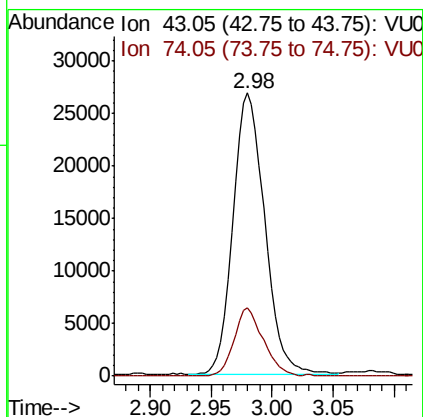
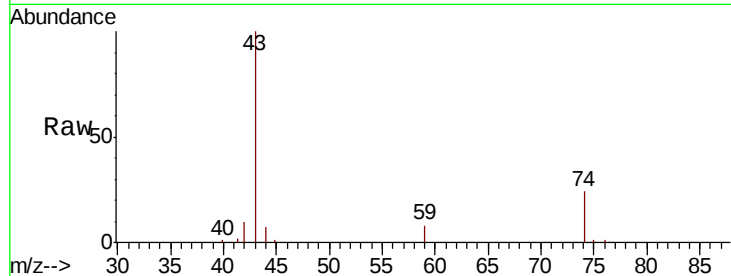




#15
Methvl Acetate
Concen: 4.416 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

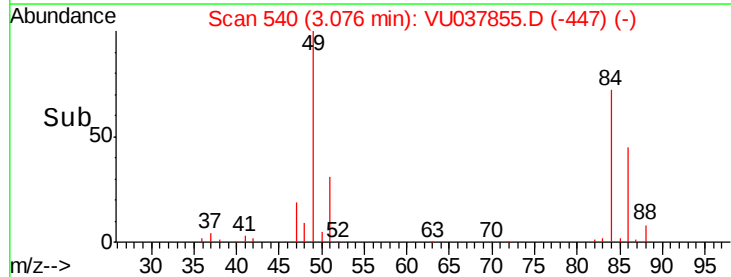
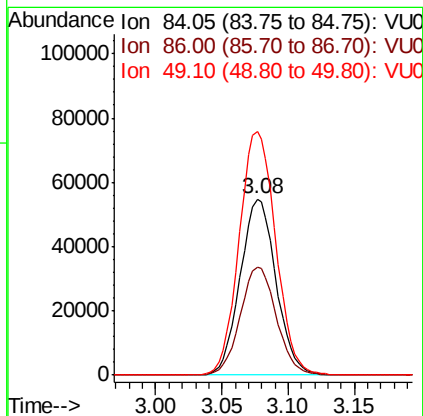
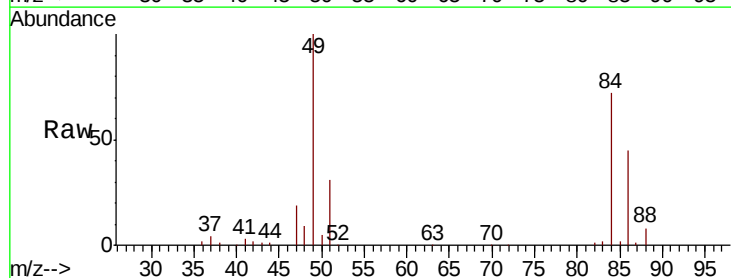
Instrument :
MSVOA_U
ClientSampled :

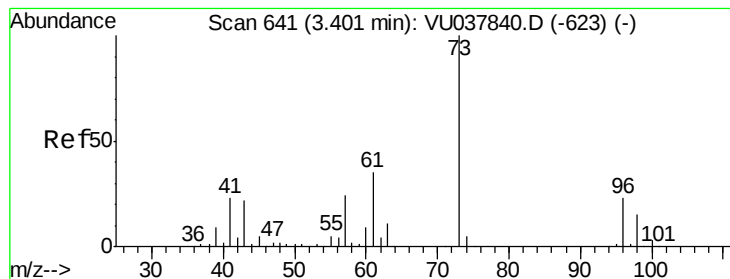
Tot Ion: 43 Resp: 48452
Ion Ratio Lower Upper
43 100
74 22.2 17.2 25.8



#16
Methylene chloride
Concen: 4.610 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion: 84 Resp: 103307
Ion Ratio Lower Upper
84 100
86 61.5 44.2 82.0
49 138.1 92.4 171.6



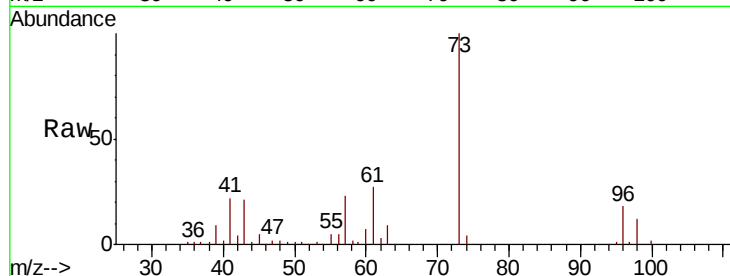


#17

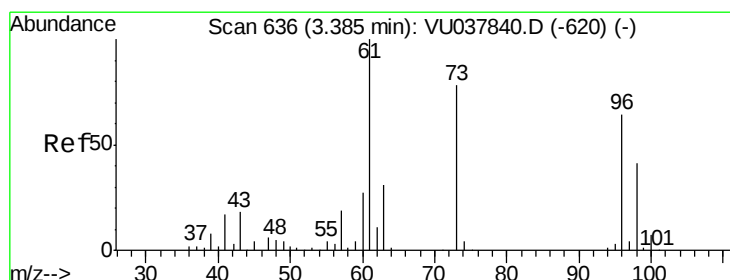
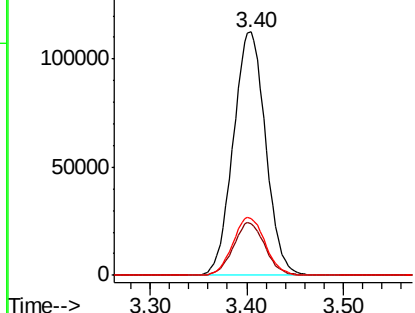
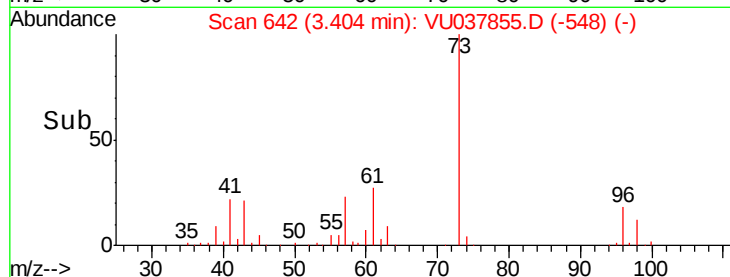
Methvl tert-butvl Ether
 Concen: 4.526 ug/L
 RT: 3.40 min Scan# 642
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.4	16.4	24.6
57	23.9	18.4	27.6



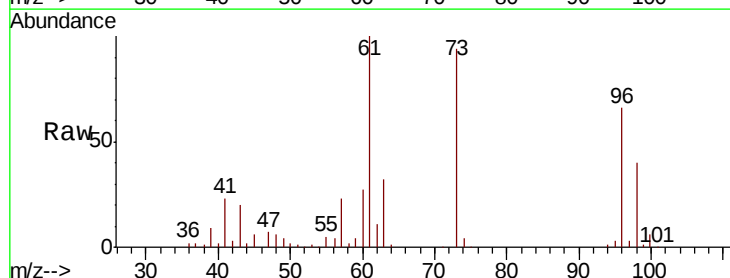
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



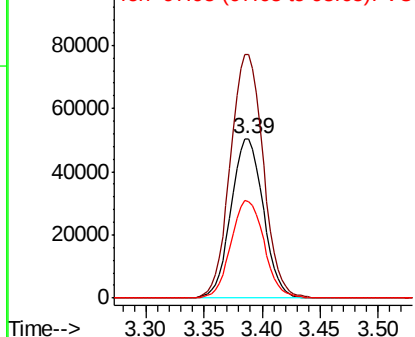
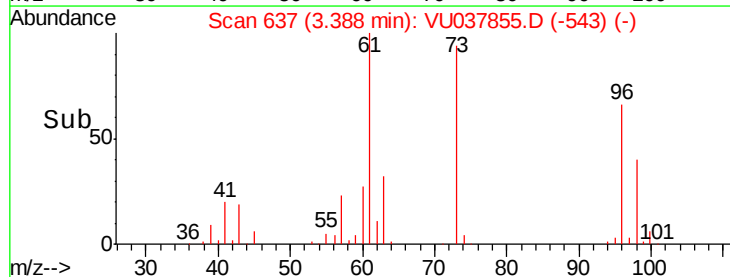
#18

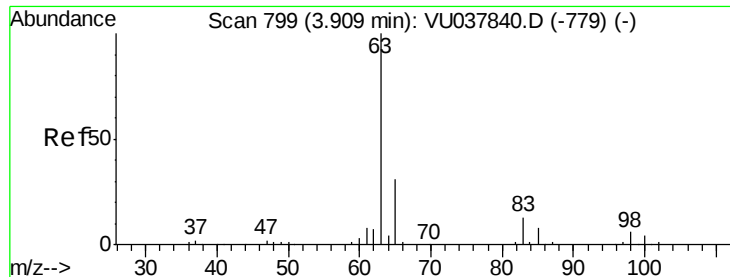
trans-1,2-Dichloroethene
 Concen: 4.535 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.6	106.7	198.3
98	60.6	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

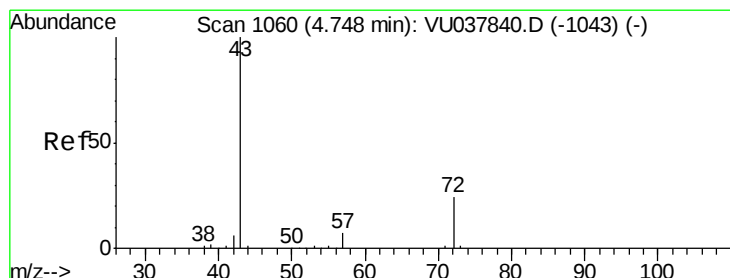
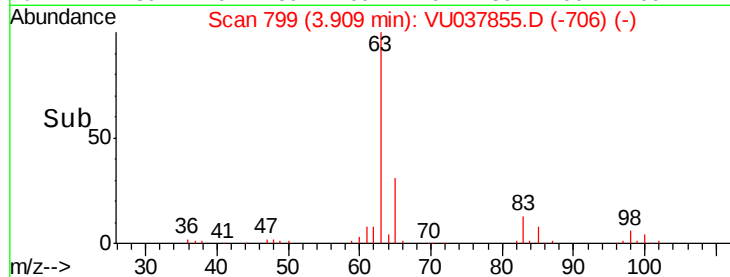
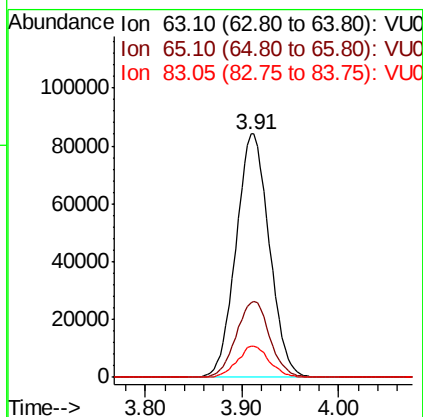
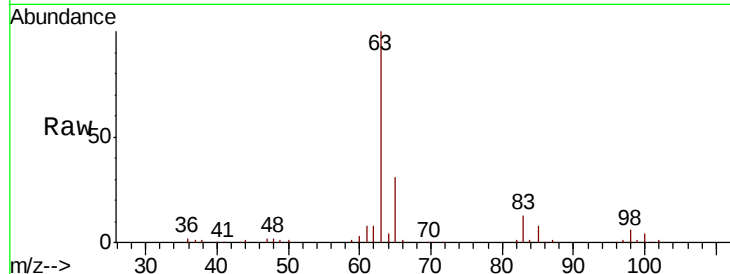




#19
 1,1-Dichloroethane
 Concen: 4.824 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

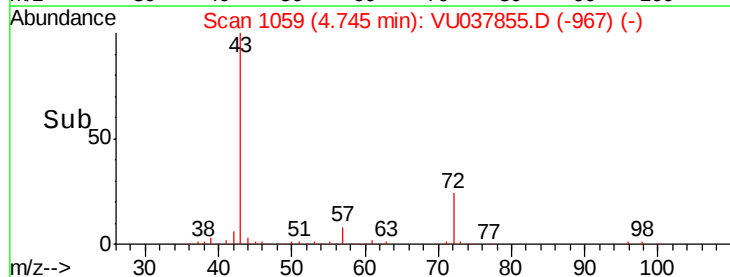
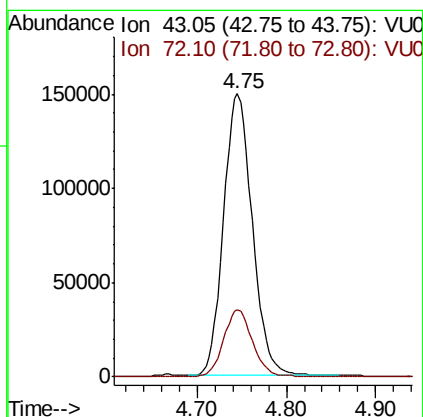
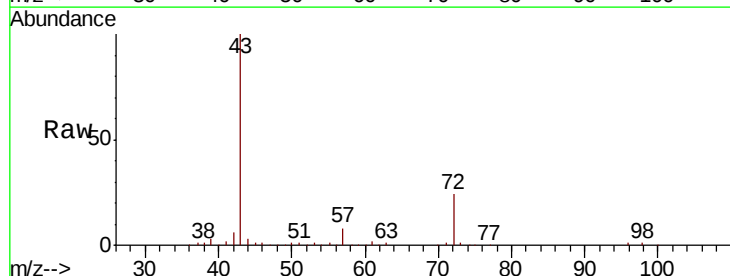
Instrument :
 MSVOA_U
 ClientSampled :

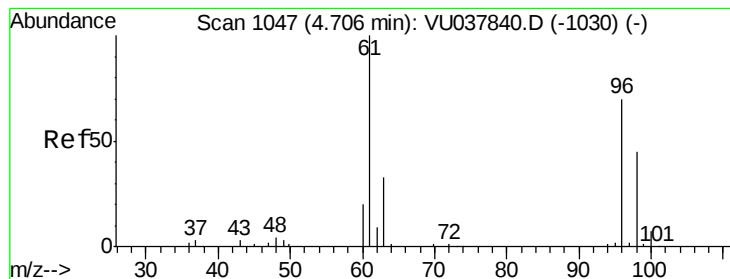
Tot Ion: 63 Resp: 201041
 Ion Ratio Lower Upper
 63 100
 65 30.6 21.6 40.2
 83 12.8 8.6 16.0



#21
 2-Butanone
 Concen: 46.580 ug/L
 RT: 4.75 min Scan# 1059
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion: 43 Resp: 333985
 Ion Ratio Lower Upper
 43 100
 72 24.2 12.6 37.6





#22

cis-1,2-Dichloroethene

Concen: 4.685 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

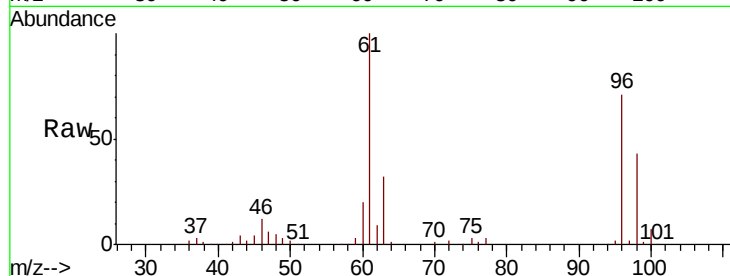
Tot Ion: 96 Resp: 109073

Ion Ratio Lower Upper

96 100

61 140.0 97.0 180.2

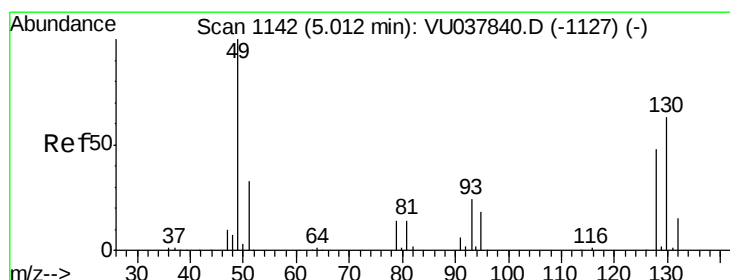
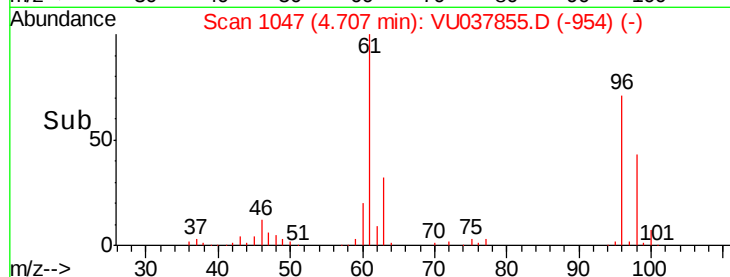
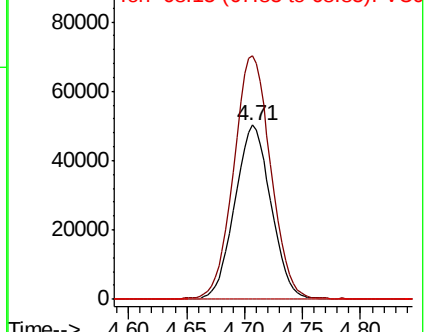
68 0.0 0.0 0.0



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



#23

Bromochloromethane

Concen: 4.547 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Tgt Ion: 128 Resp: 44864

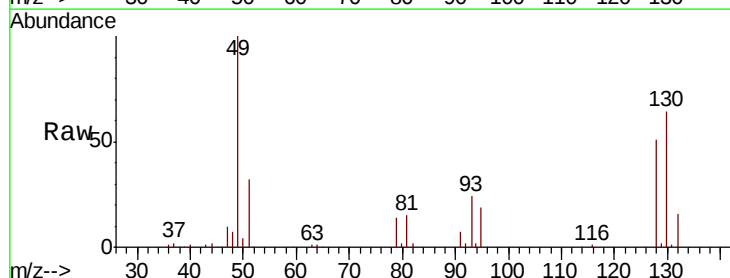
Ion Ratio Lower Upper

128 100

49 197.2 138.6 257.4

130 125.4 91.3 169.5

51 64.0 49.3 73.9

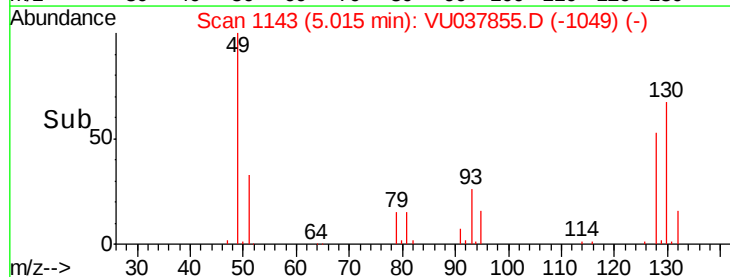
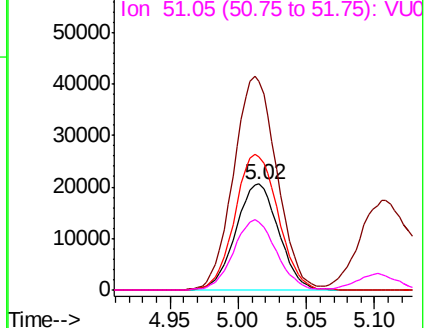


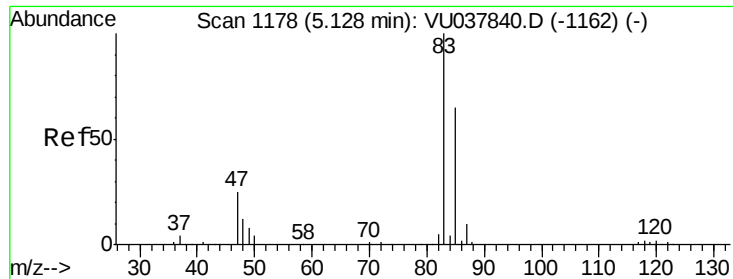
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

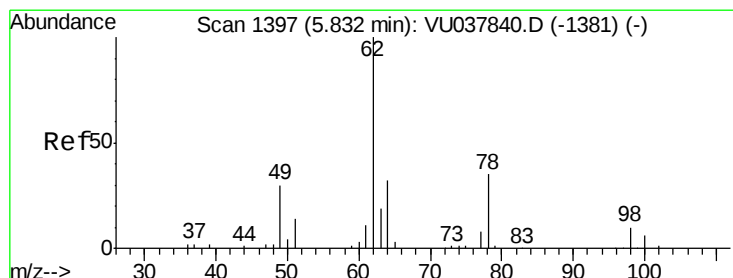
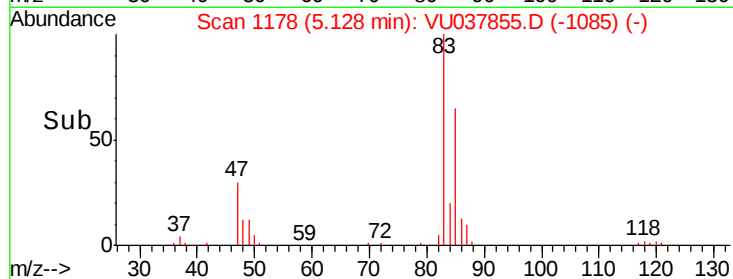
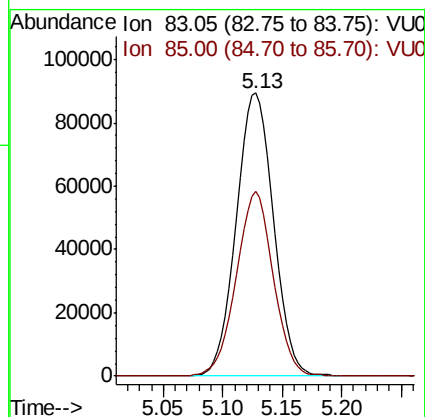
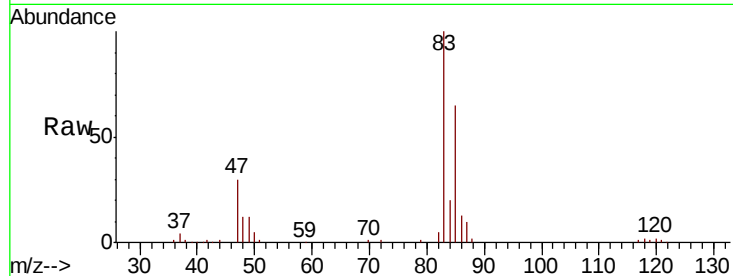




#25
Chloroform
Concen: 4.905 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

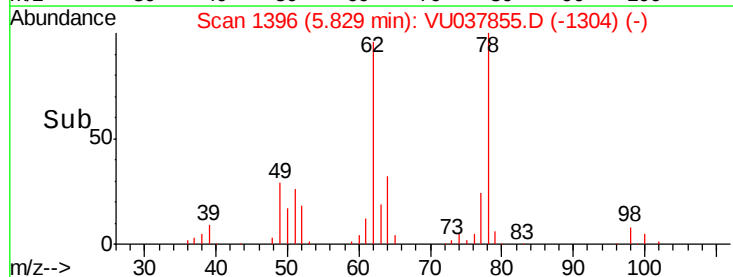
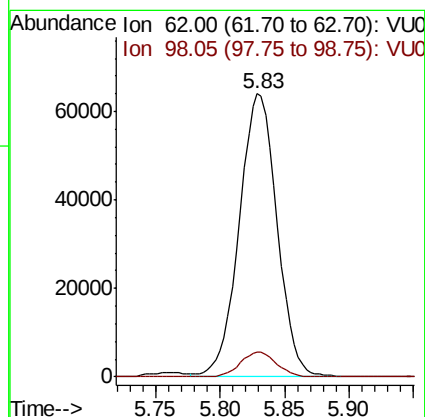
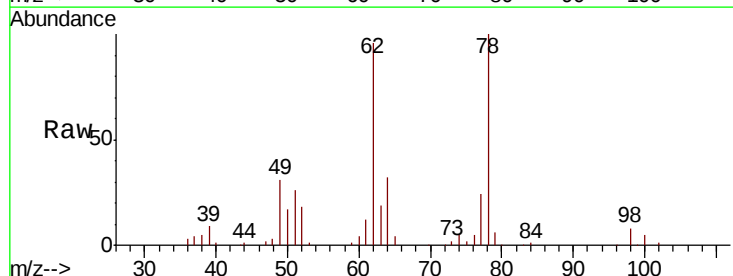
Instrument :
MSVOA_U
ClientSampleId :

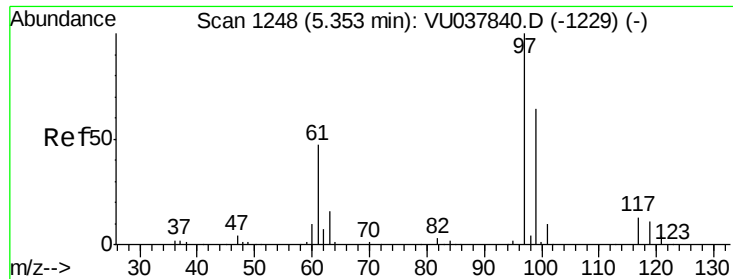
Tot Ion: 83 Resp: 194194
Ion Ratio Lower Upper
83 100
85 65.4 44.9 83.3



#27
1,2-Dichloroethane
Concen: 4.861 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion: 62 Resp: 130085
Ion Ratio Lower Upper
62 100
98 8.7 7.6 11.4

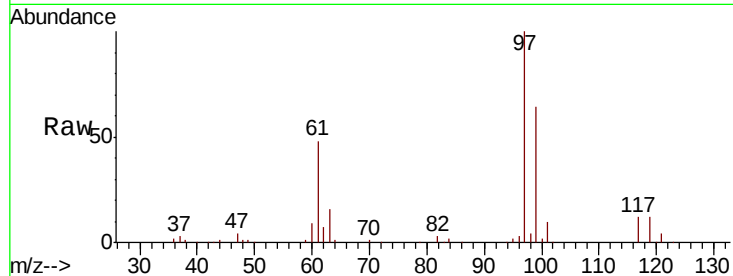




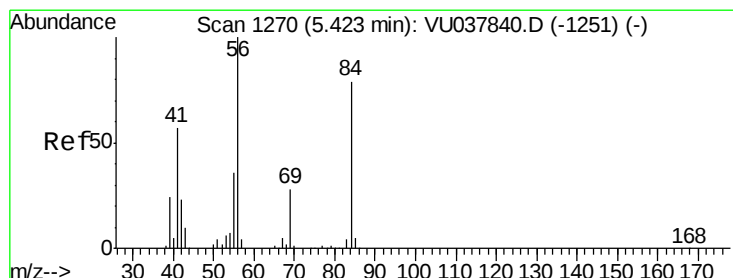
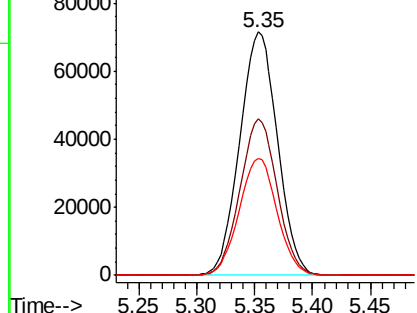
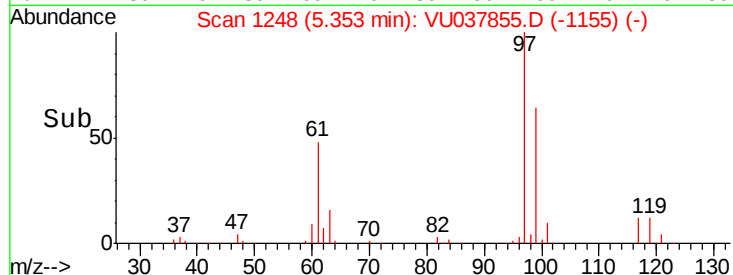
#29
 1,1,1-Trichloroethane
 Concen: 4.774 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 161702
 Ion Ratio Lower Upper
 97 100
 99 63.6 52.0 78.0
 61 48.4 37.8 56.8

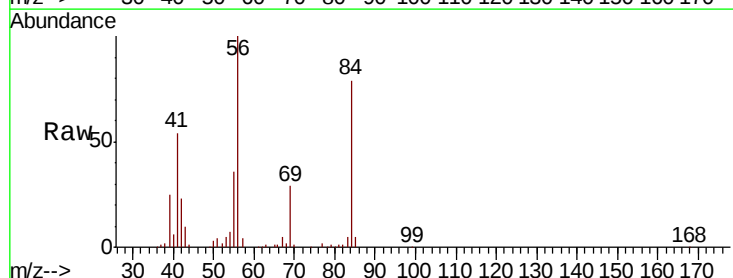


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

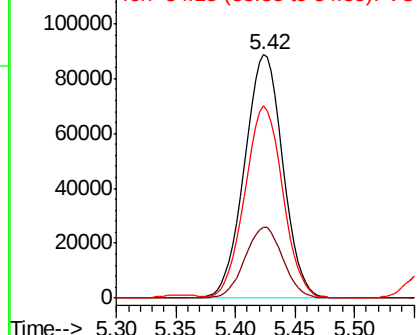
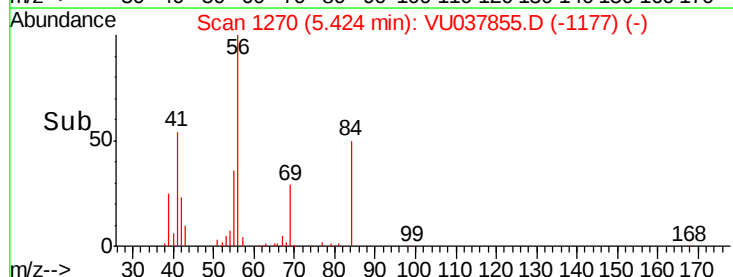


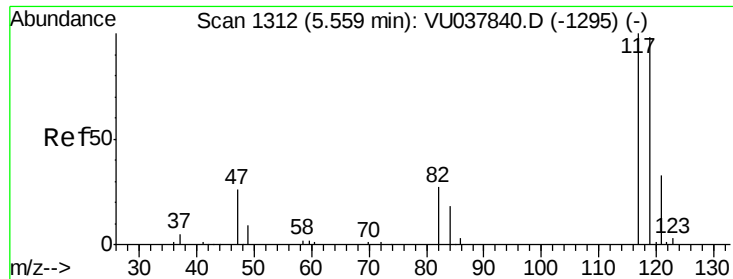
#30
 Cyclohexane
 Concen: 4.735 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion: 56 Resp: 198522
 Ion Ratio Lower Upper
 56 100
 69 28.8 23.9 35.9
 84 78.2 65.6 98.4



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0

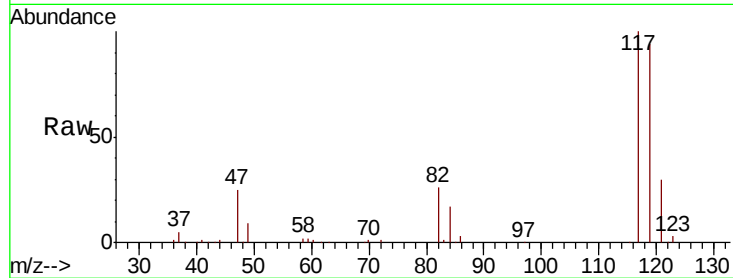




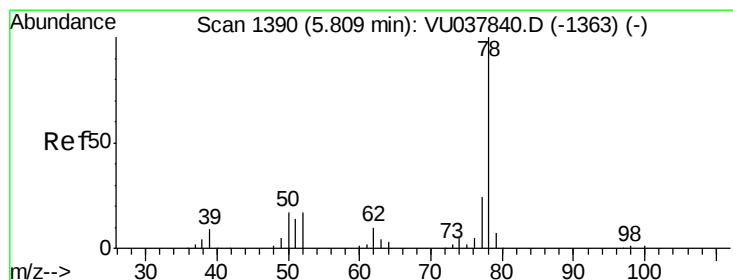
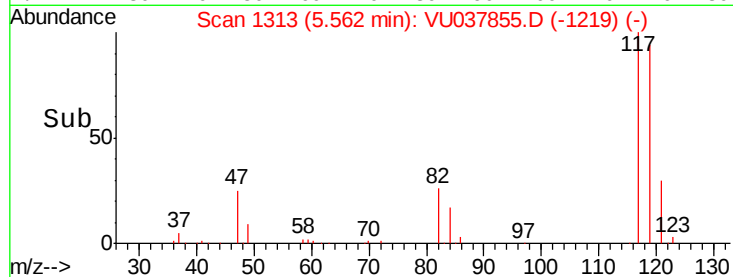
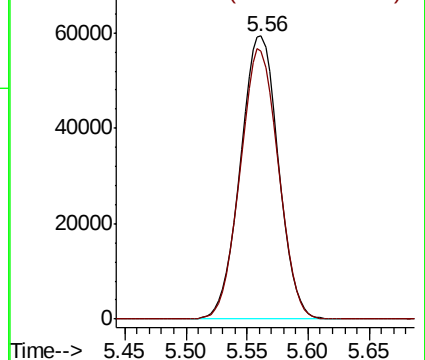
#31
Carbon tetrachloride
Concen: 4.736 ug/L
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 127846
Ion Ratio Lower Upper
117 100
119 95.8 77.4 116.0

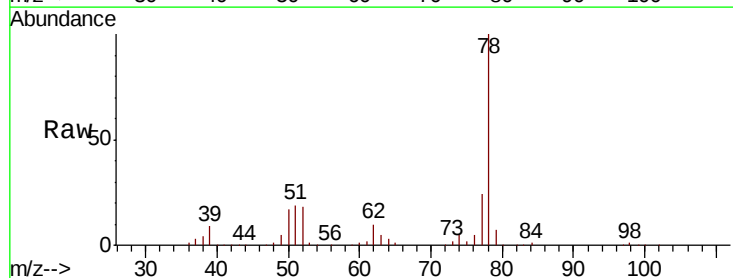


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

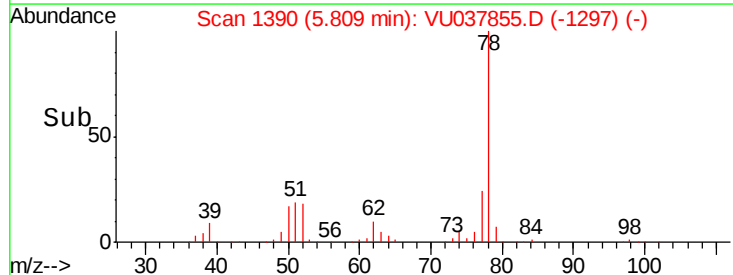
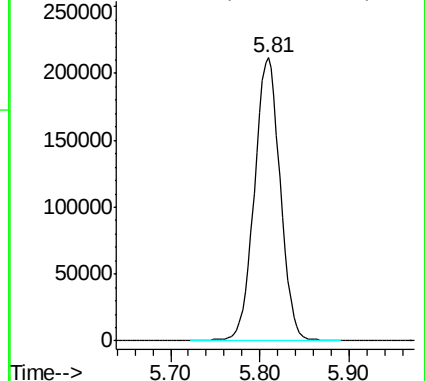


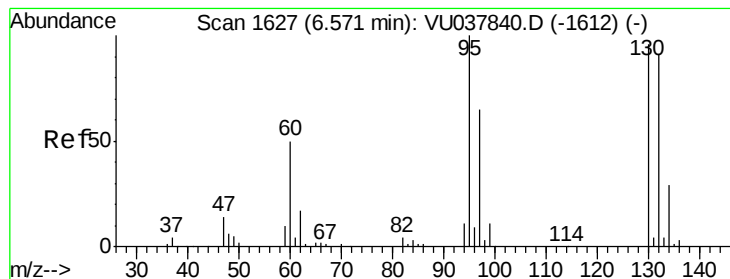
#33
Benzene
Concen: 4.644 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion: 78 Resp: 428398



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.640 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 105177

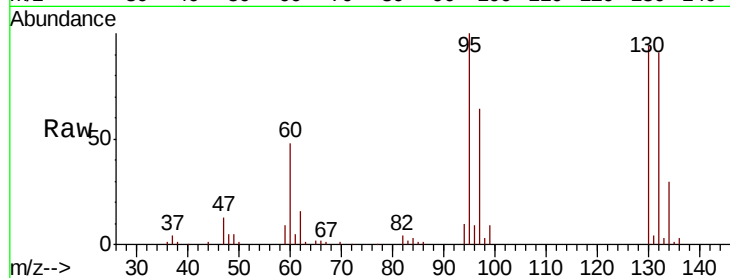
Ion Ratio Lower Upper

95 100

97 63.9 45.4 84.2

132 91.0 63.7 118.3

130 94.2 68.7 127.5

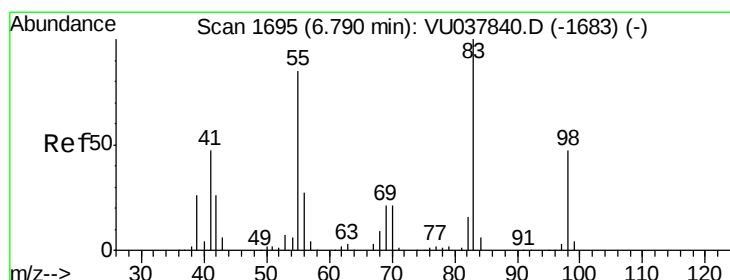
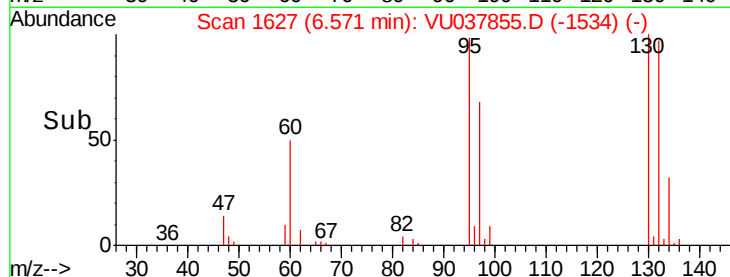
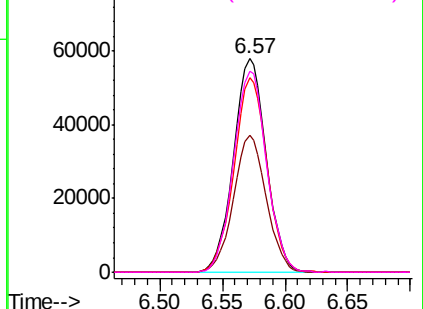


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.653 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

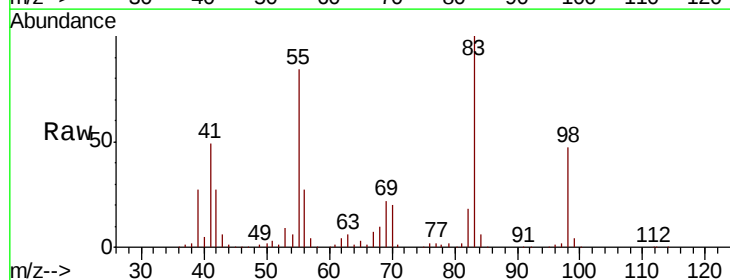
Tgt Ion: 83 Resp: 184870

Ion Ratio Lower Upper

83 100

55 83.7 65.5 98.3

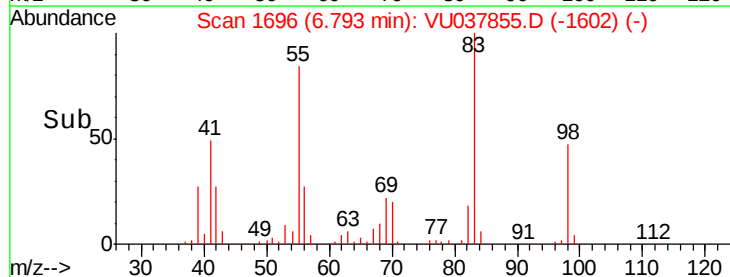
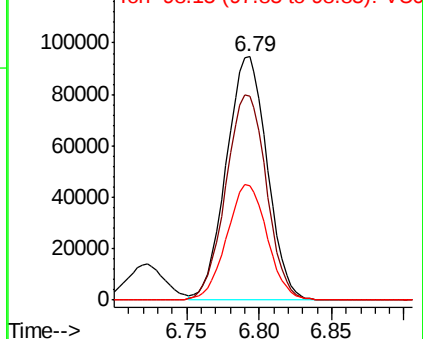
98 47.2 38.2 57.4

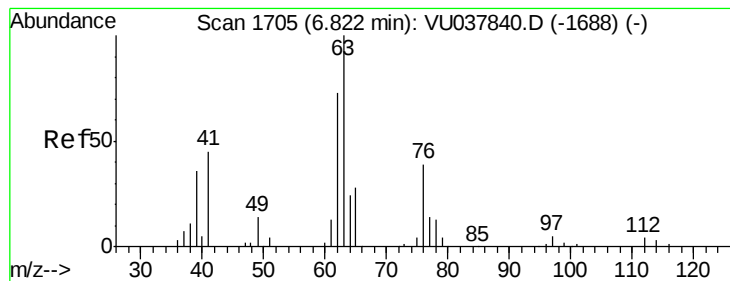


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.751 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

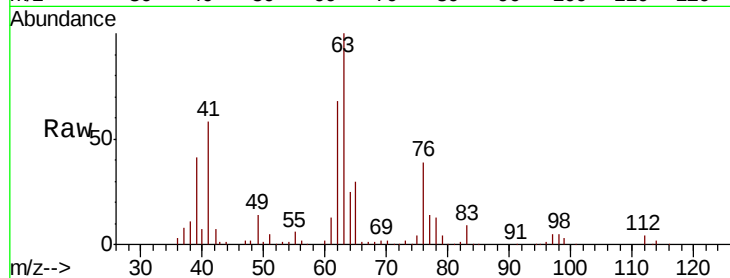
ClientSampleId :

Tot Ion: 63 Resp: 116219

Ion Ratio Lower Upper

63 100

112 3.9 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VU037840.D (-1688) (-)

Ion 112.10 (111.80 to 112.80): VU037840.D (-1688) (-)

6.82

60000

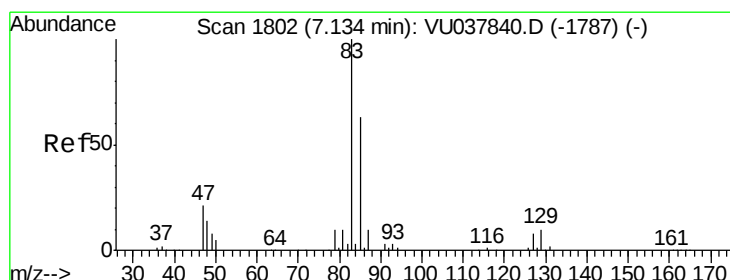
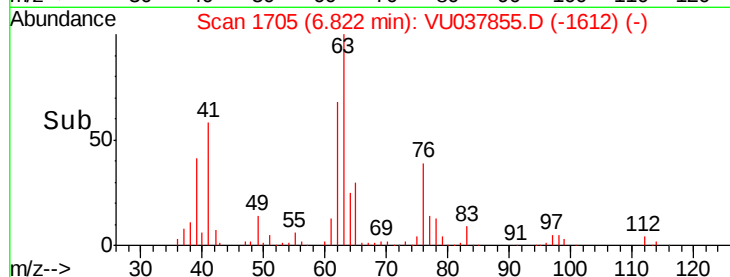
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 4.601 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

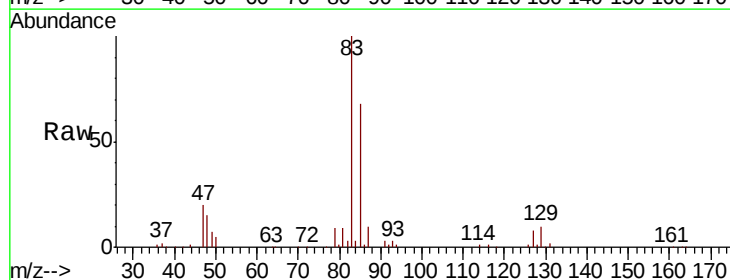
Tgt Ion: 83 Resp: 133852

Ion Ratio Lower Upper

83 100

85 67.5 45.1 83.7

127 7.9 6.6 9.8



Abundance Ion 82.95 (82.65 to 83.65): VU037840.D (-1787) (-)

Ion 85.00 (84.70 to 85.70): VU037840.D (-1787) (-)

Ion 126.90 (126.60 to 127.60): VU037840.D (-1787) (-)

100000

80000

60000

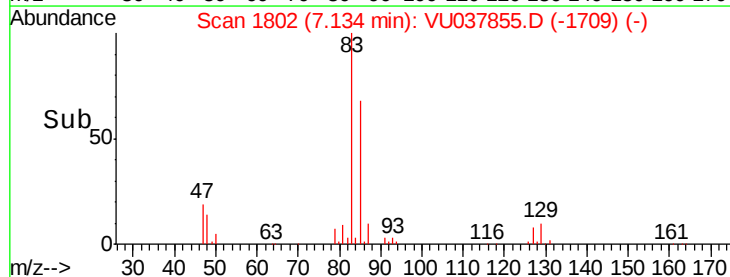
40000

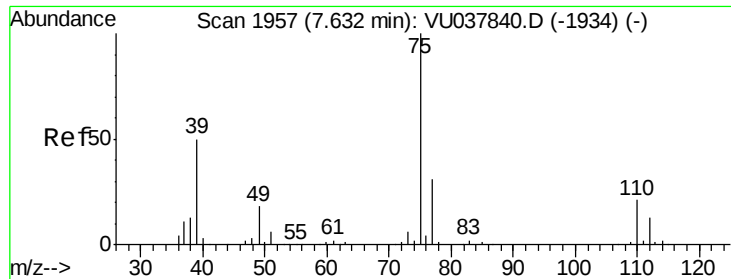
20000

0

7.05 7.10 7.15 7.20

Time-->

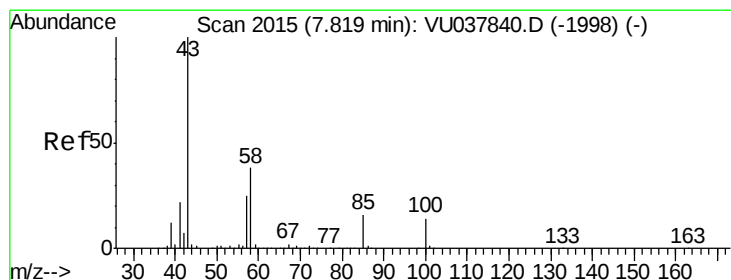
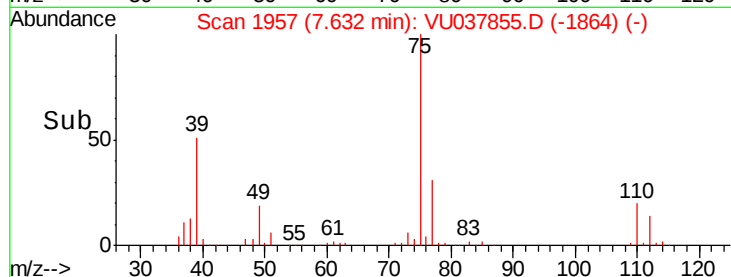
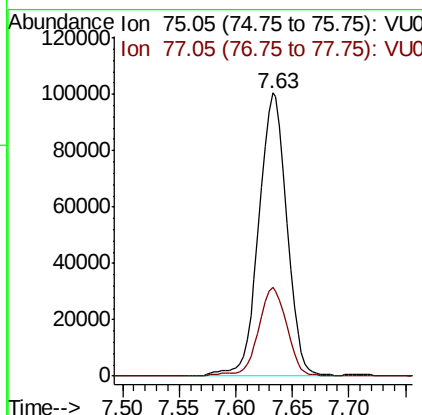
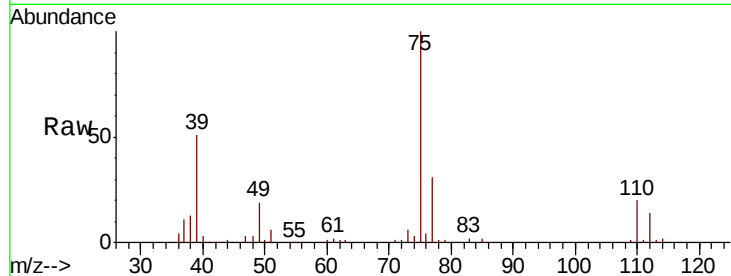




#39
 cis-1,3-Dichloropropene
 Concen: 4.538 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

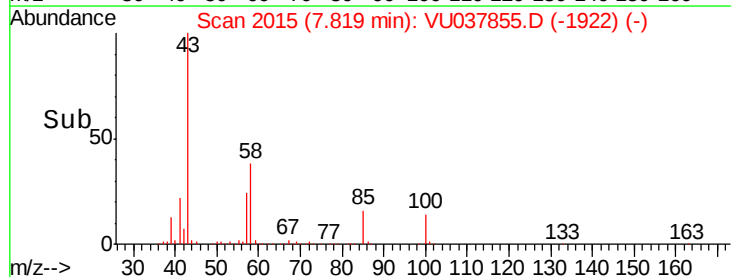
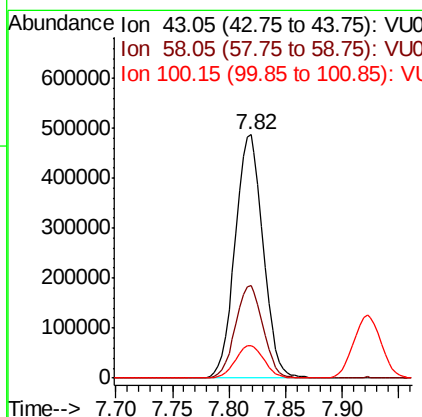
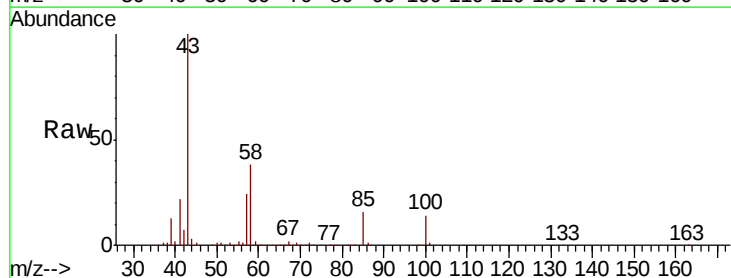
Instrument :
 MSVOA_U
 ClientSampled :

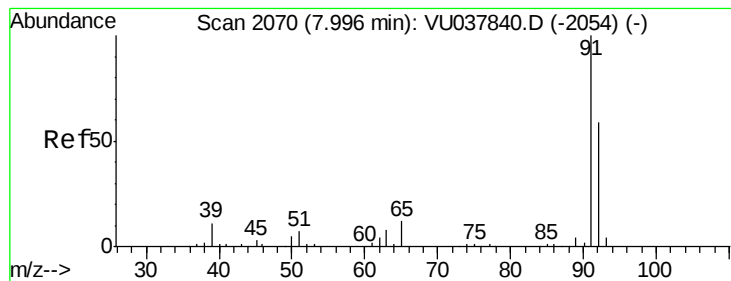
Tot Ion: 75 Resp: 173791
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 46.763 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion: 43 Resp: 841034
 Ion Ratio Lower Upper
 43 100
 58 37.8 31.3 46.9
 100 13.7 11.5 17.3





#42

Toluene

Concen: 4.686 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

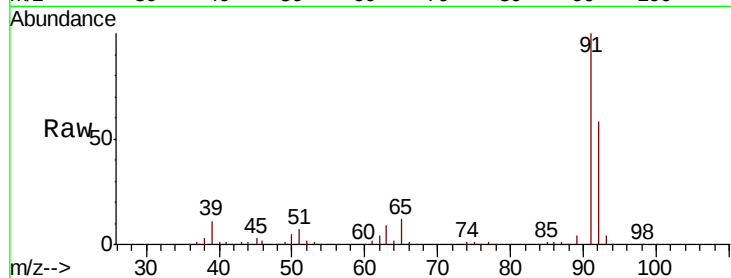
ClientSampleId :

Tot Ion: 91 Resp: 452719

Ion Ratio Lower Upper

91 100

92 58.1 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU037840.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU037840.D (-2054) (-)

7.99

250000

200000

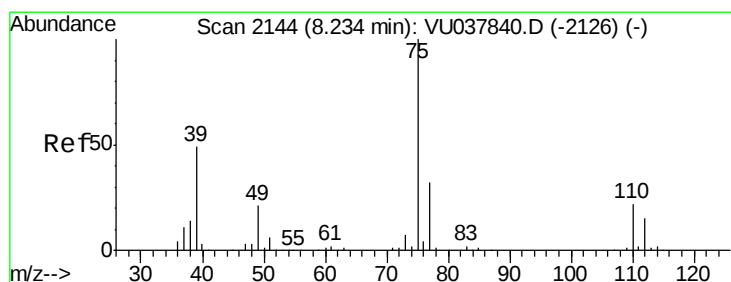
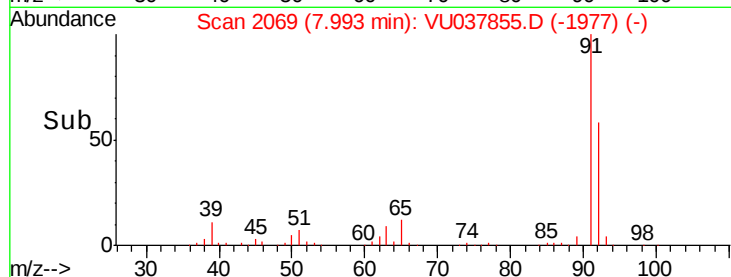
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.517 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037855.D

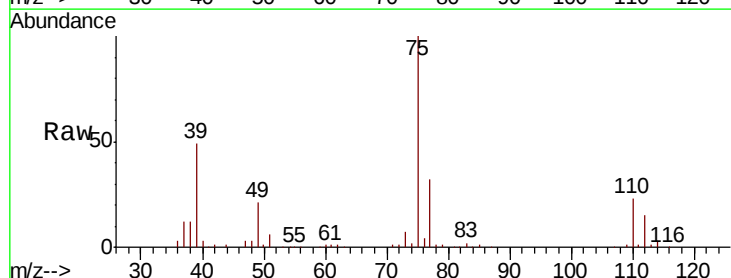
Acq: 22 Apr 2020 20:10

Tgt Ion: 75 Resp: 150166

Ion Ratio Lower Upper

75 100

77 31.8 21.4 39.8



Abundance Ion 75.05 (74.75 to 75.75): VU037840.D (-2126) (-)

Ion 77.05 (76.75 to 77.75): VU037840.D (-2126) (-)

8.23

100000

80000

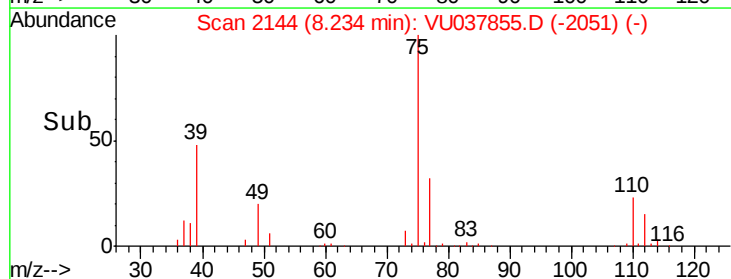
60000

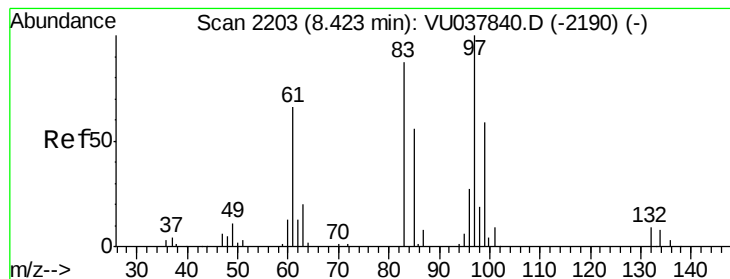
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.563 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 75224

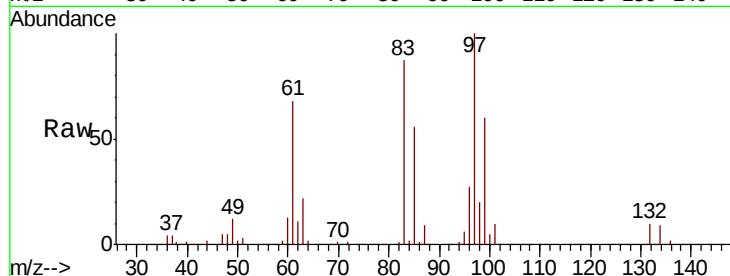
Ion Ratio Lower Upper

97 100

99 59.5 43.1 80.1

83 87.0 62.4 116.0

85 56.0 39.6 73.6

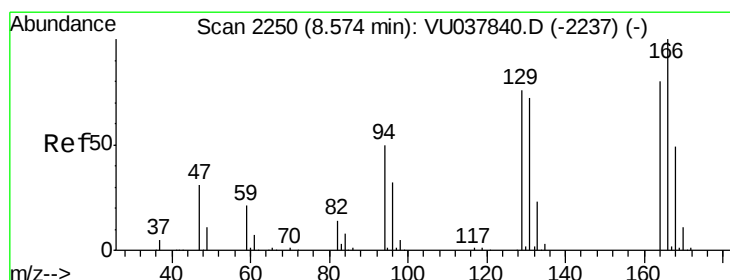
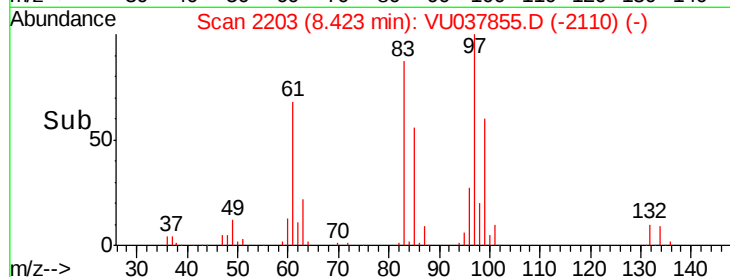
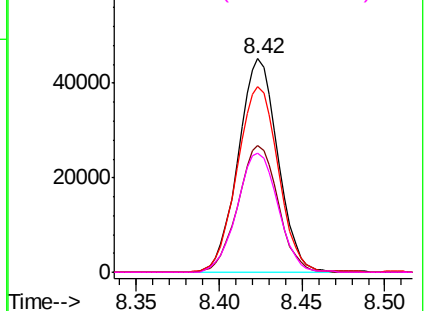


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 4.686 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Tgt Ion:164 Resp: 76333

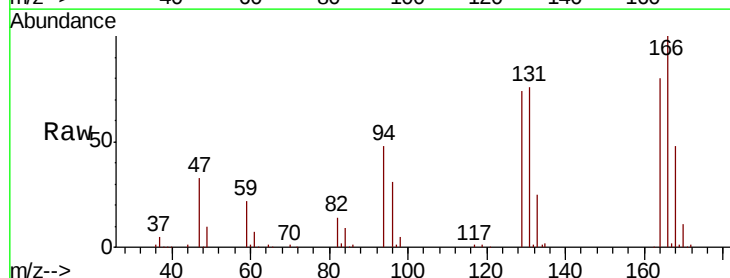
Ion Ratio Lower Upper

164 100

129 93.3 68.1 126.5

131 95.0 65.9 122.5

166 125.5 89.7 166.7

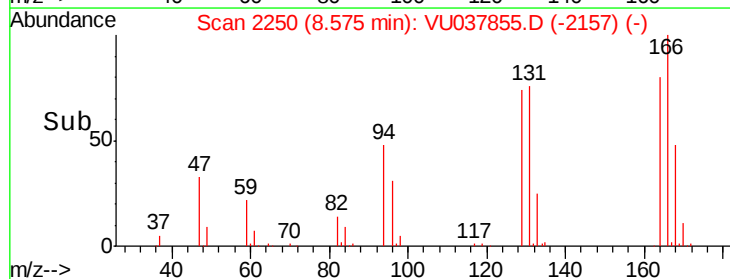
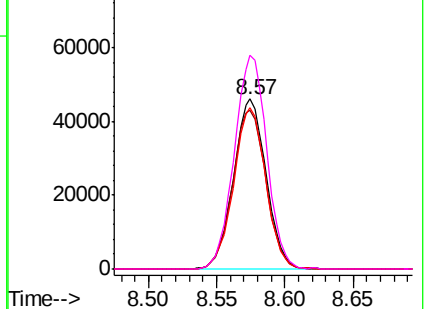


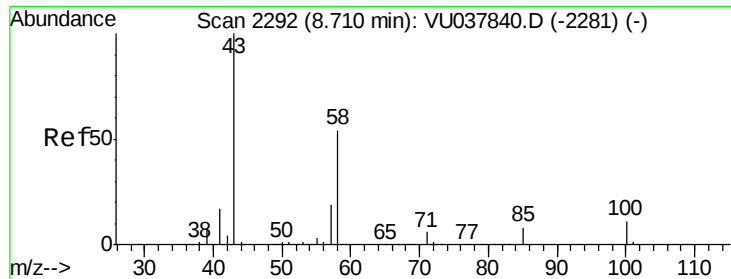
Abundance Ion 163.90 (163.60 to 164.60): V

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

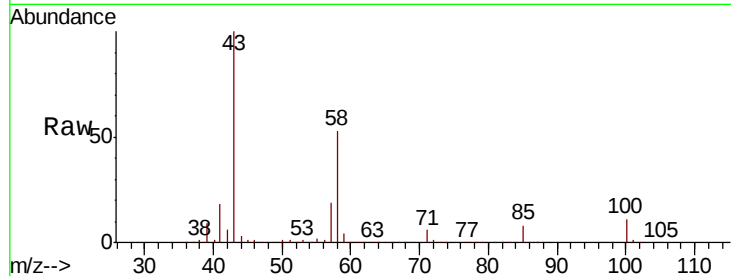




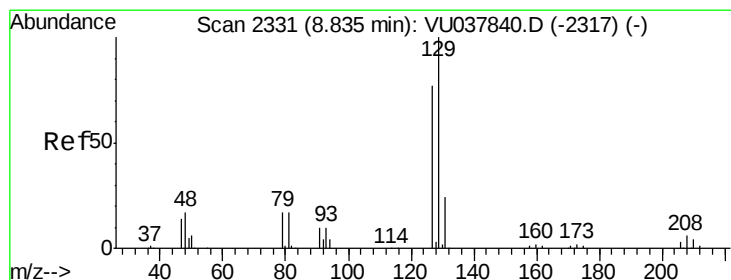
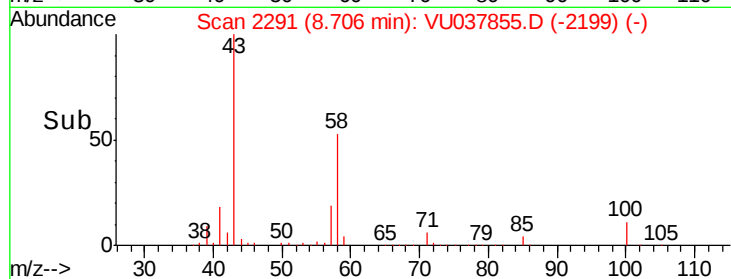
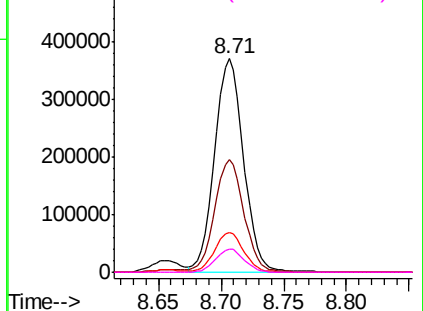
#48
2-Hexanone
Concen: 46.148 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 594243
Ion Ratio Lower Upper
43 100
58 53.8 43.6 65.4
57 18.6 15.4 23.0
100 10.7 9.1 13.7

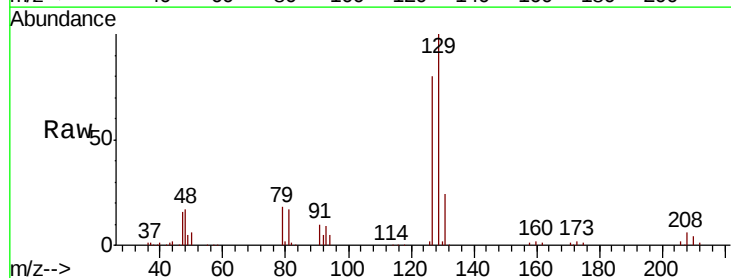


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

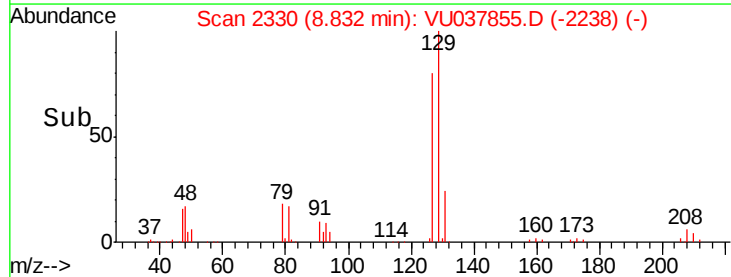
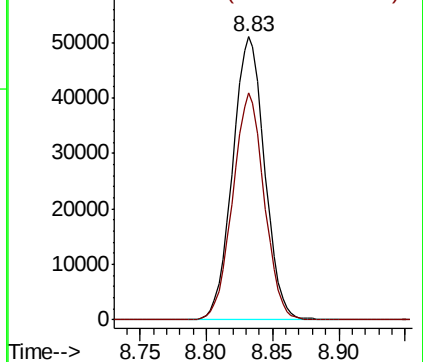


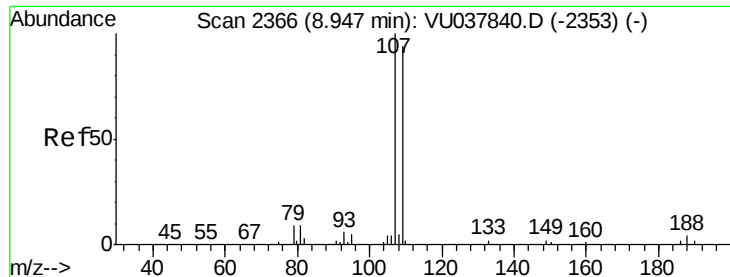
#49
Dibromochloromethane
Concen: 4.546 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion: 129 Resp: 85636
Ion Ratio Lower Upper
129 100
127 80.1 53.3 98.9



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

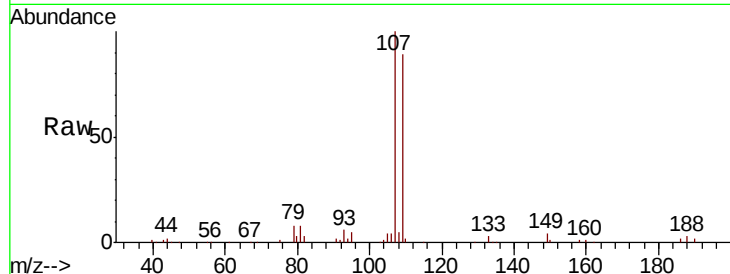




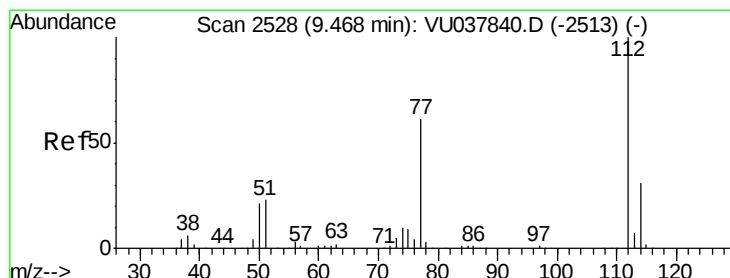
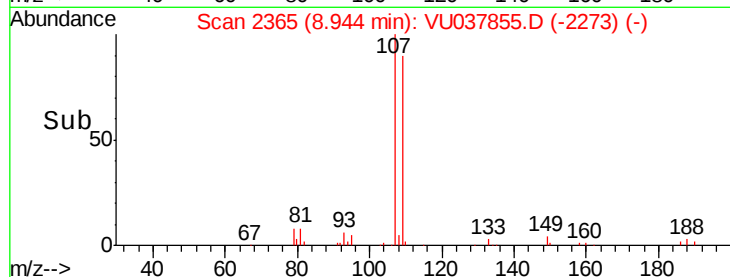
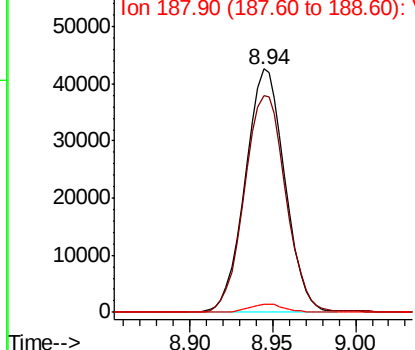
#50
 1,2-Dibromoethane
 Concen: 4.473 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 70904
 Ion Ratio Lower Upper
 107 100
 109 89.2 66.3 123.1
 188 3.2 2.5 3.7

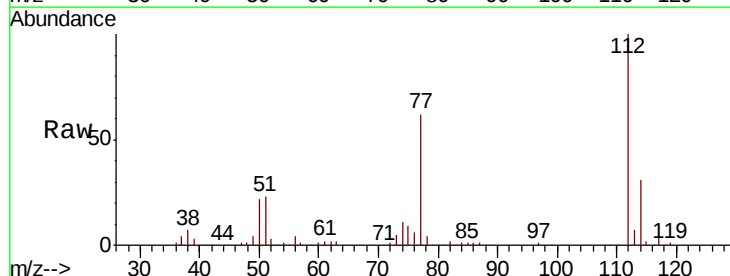


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

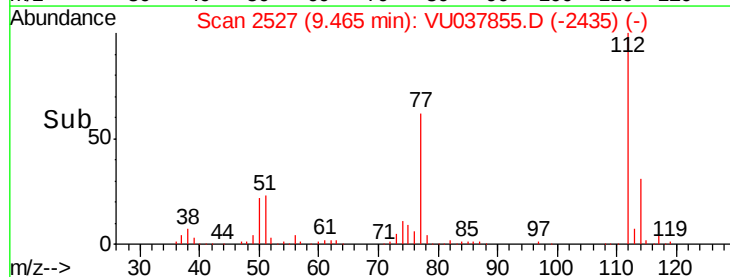
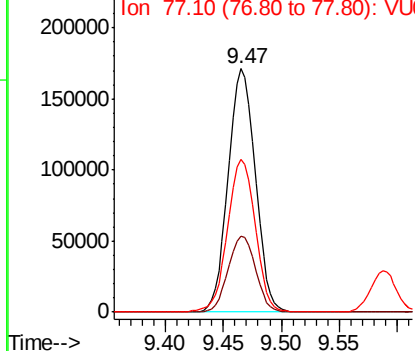


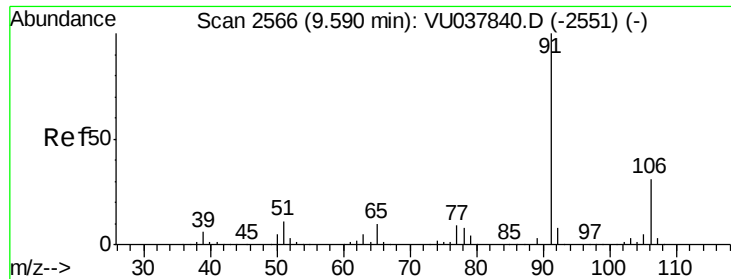
#51
 Chlorobenzene
 Concen: 4.708 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion:112 Resp: 277510
 Ion Ratio Lower Upper
 112 100
 114 31.2 22.6 42.0
 77 62.5 50.2 75.4



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): VU

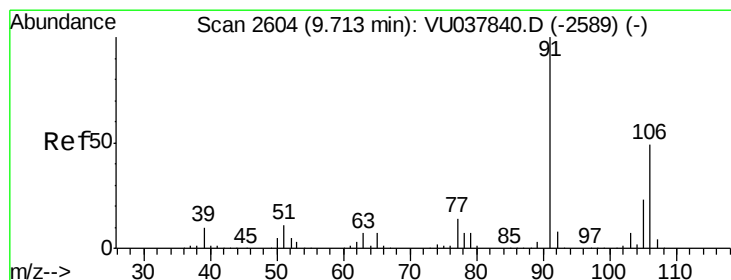
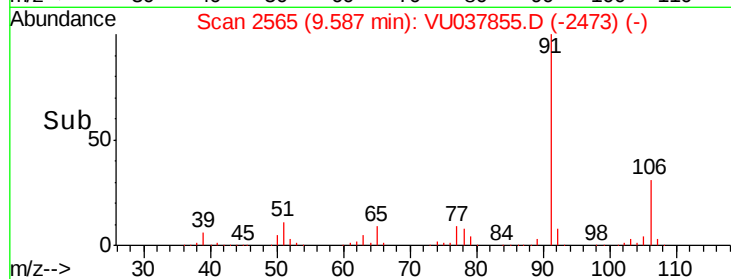
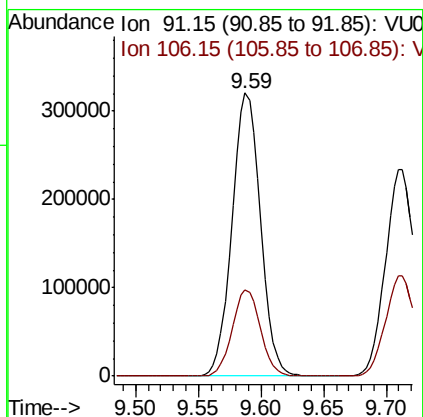
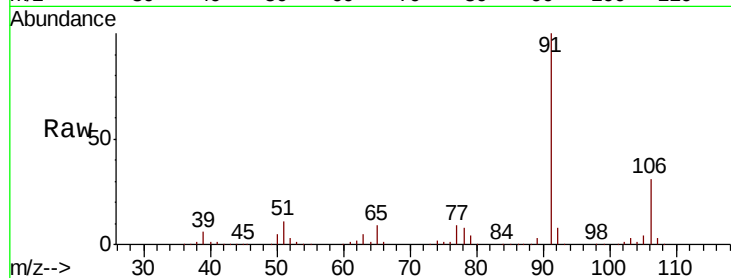




#52
Ethylbenzene
Concen: 4.704 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

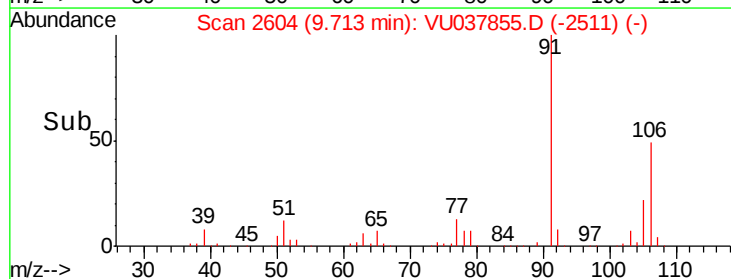
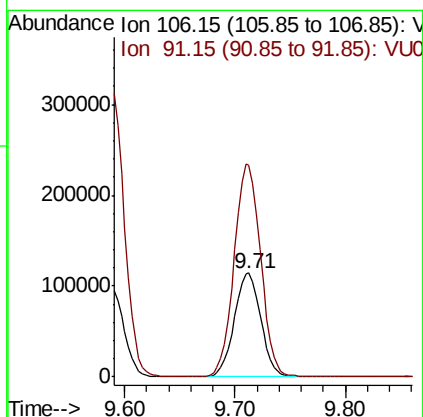
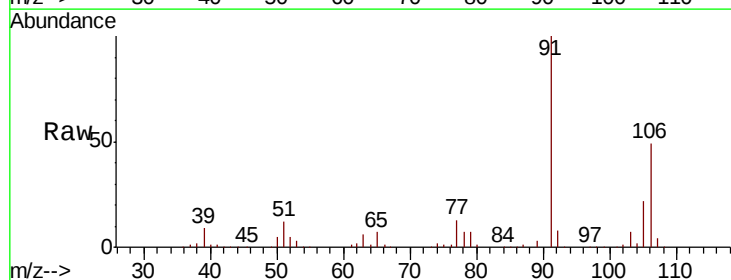
Instrument :
MSVOA_U
ClientSampleId :

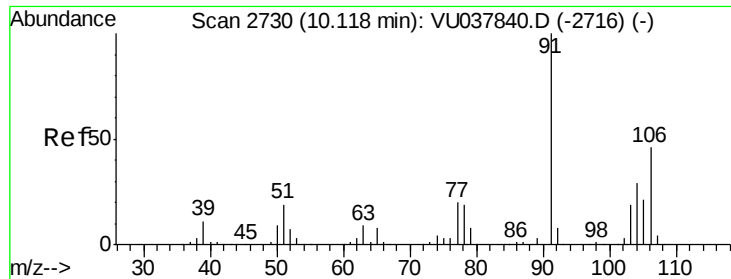
Tot Ion: 91 Resp: 505602
Ion Ratio Lower Upper
91 100
106 30.7 21.7 40.3



#53
m,p-Xylene
Concen: 4.680 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion:106 Resp: 190386
Ion Ratio Lower Upper
106 100
91 204.6 143.9 267.3

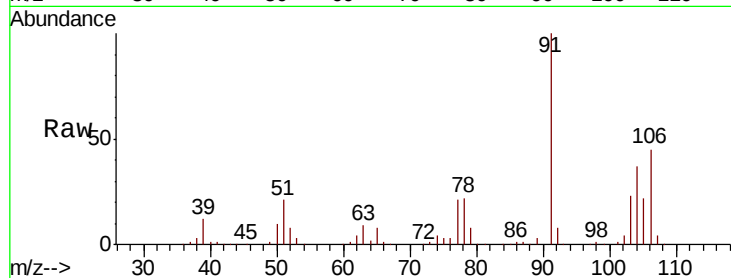




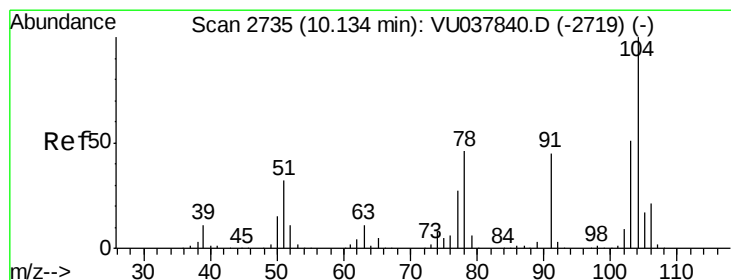
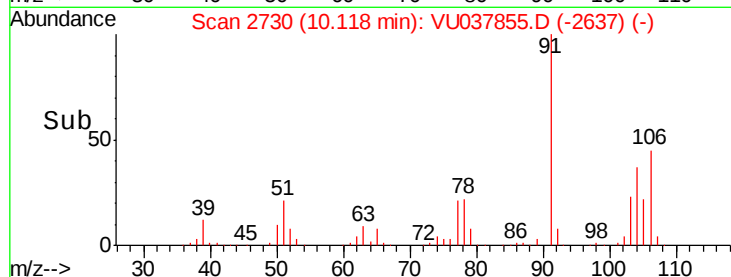
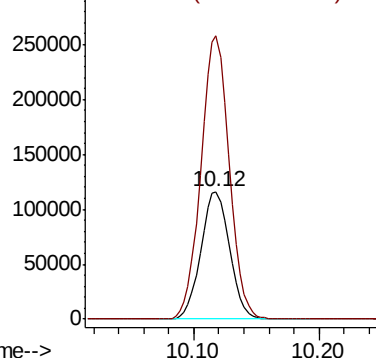
#54
o-Xylene
Concen: 4.618 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 184893
Ion Ratio Lower Upper
106 100
91 222.0 151.1 280.7

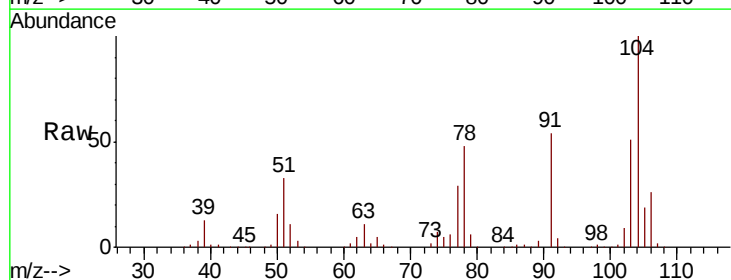


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

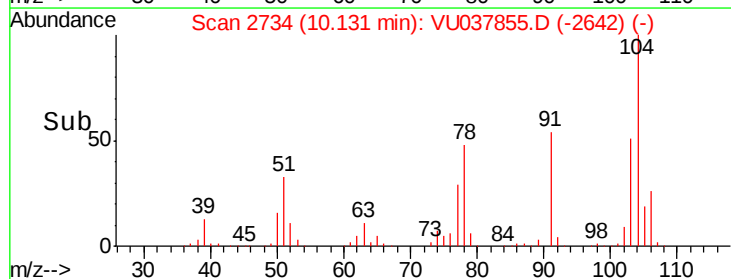
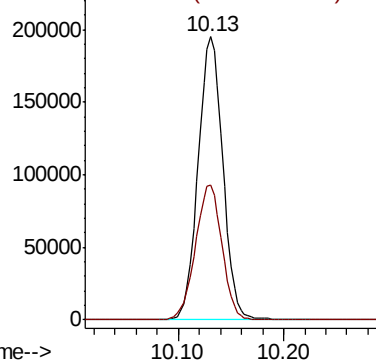


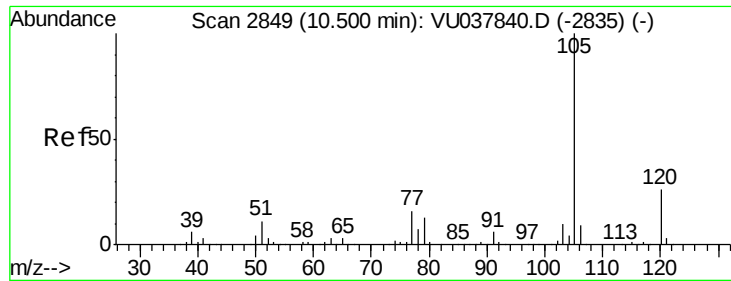
#55
Styrene
Concen: 4.611 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU037855.D
Acq: 22 Apr 2020 20:10

Tgt Ion:104 Resp: 315625
Ion Ratio Lower Upper
104 100
78 47.7 32.5 60.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.694 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

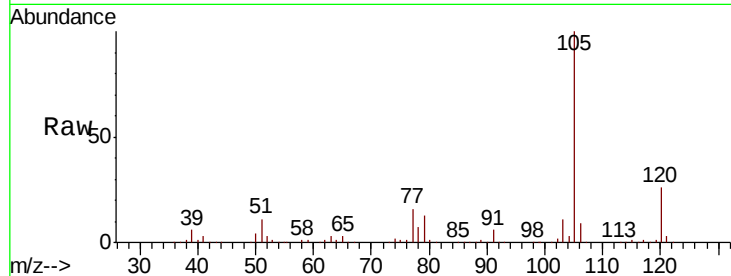
Tot Ion:105 Resp: 492982

Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0

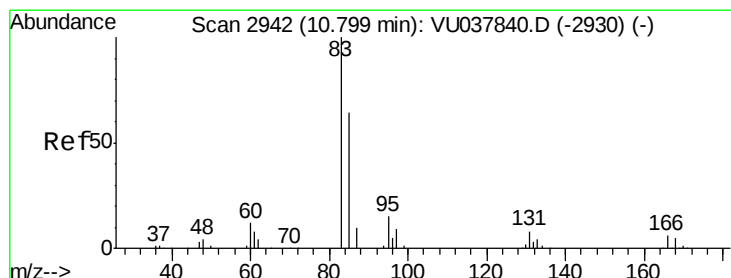
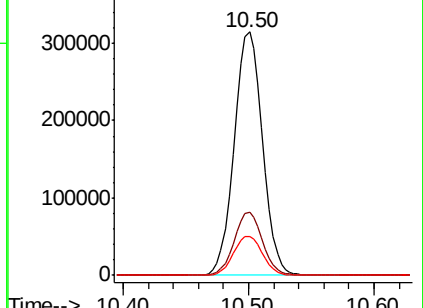
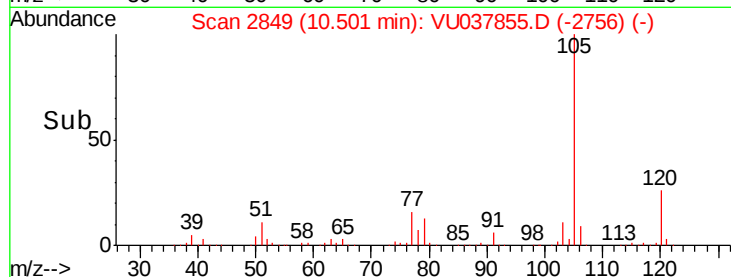
77 16.5 13.2 19.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.643 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

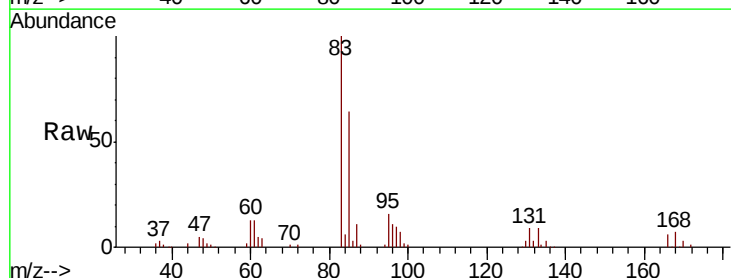
Tgt Ion: 83 Resp: 99643

Ion Ratio Lower Upper

83 100

85 63.9 45.3 84.1

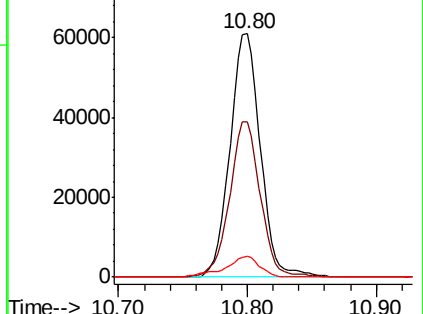
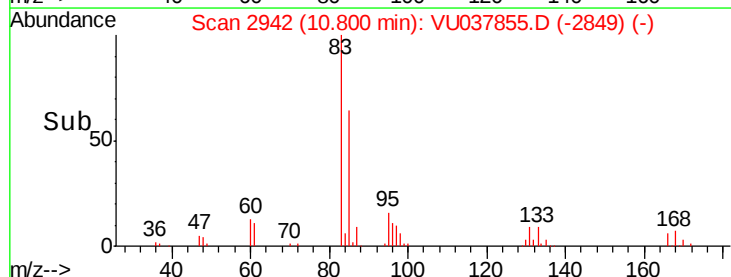
131 8.7 7.4 11.2

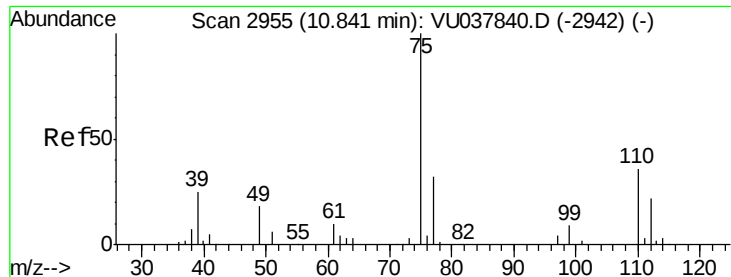


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.653 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

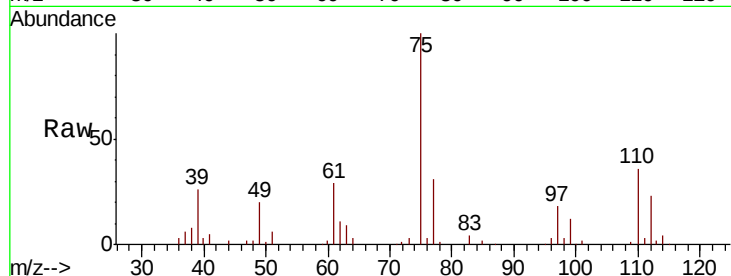
ClientSampled :

Tot Ion: 75 Resp: 74499

Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037840.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037840.D (-2942) (-)

10.84

50000

40000

30000

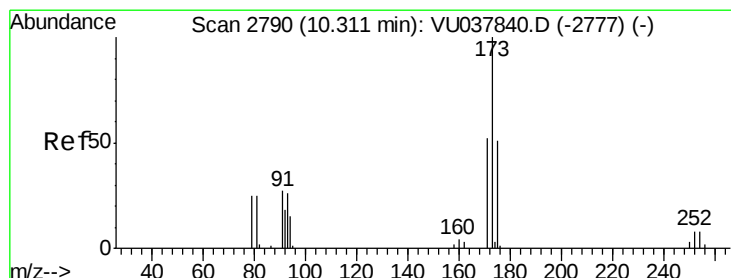
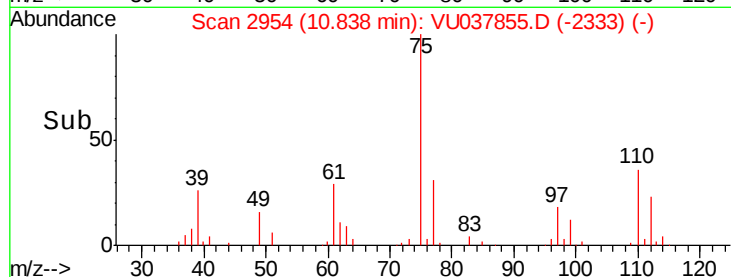
20000

10000

0

10.80 10.85 10.90

Time-->



#61

Bromoform

Concen: 4.267 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

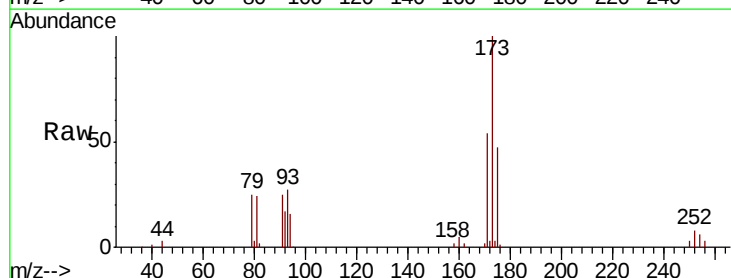
Tgt Ion:173 Resp: 48135

Ion Ratio Lower Upper

173 100

175 47.4 37.6 56.4

254 6.4 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU037840.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU037840.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU037840.D (-2777) (-)

10.31

30000

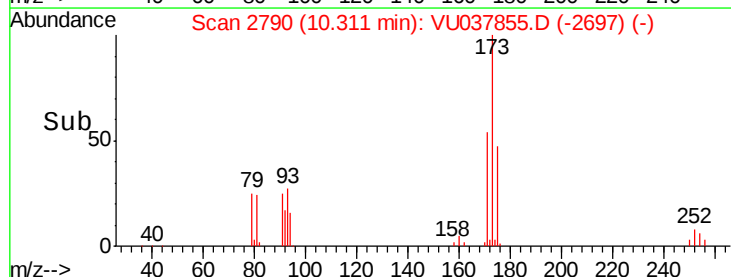
20000

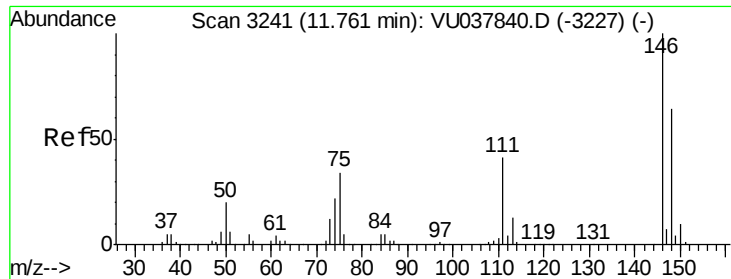
10000

0

10.25 10.30 10.35

Time-->

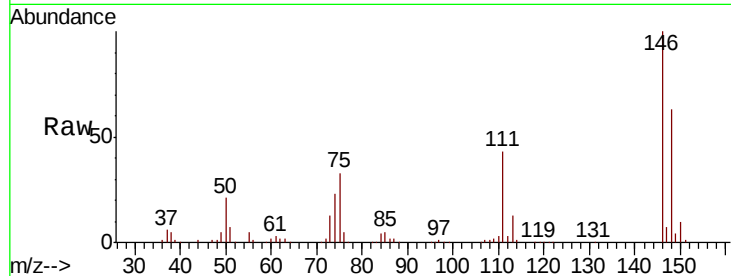




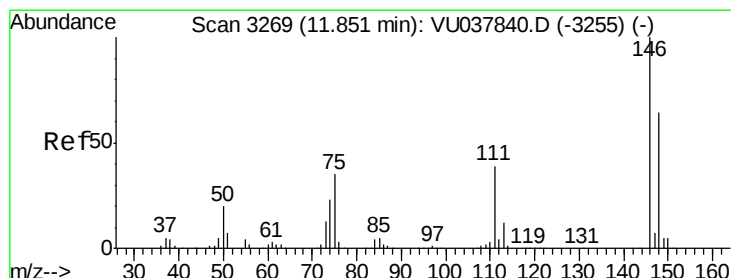
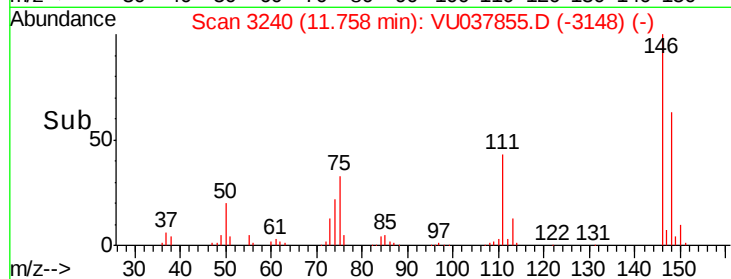
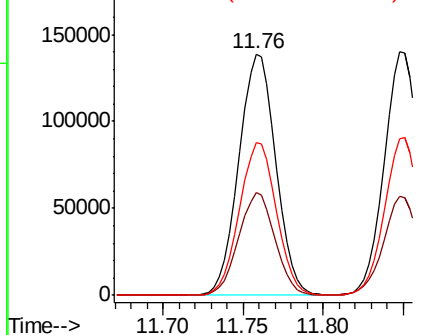
#62
 1,3-Dichlorobenzene
 Concen: 4.601 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	29.8	55.3
148	63.2	44.5	82.7

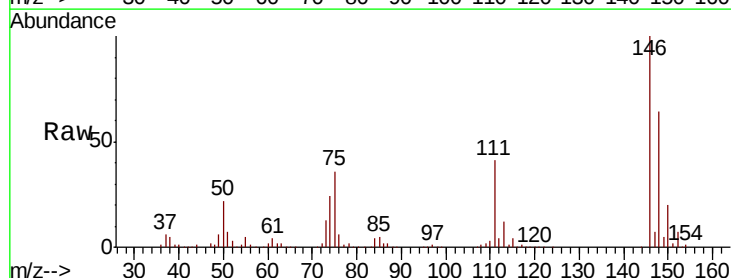


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

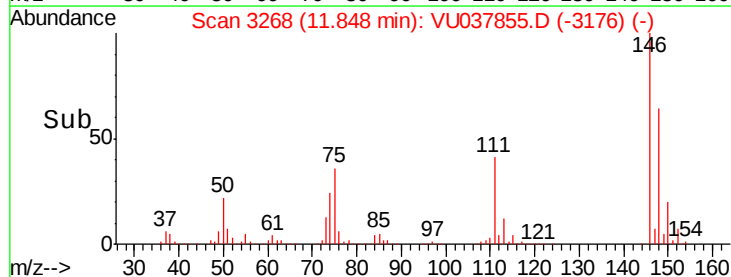
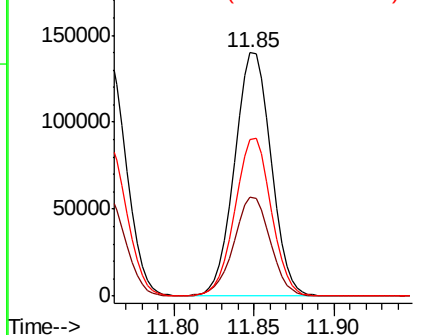


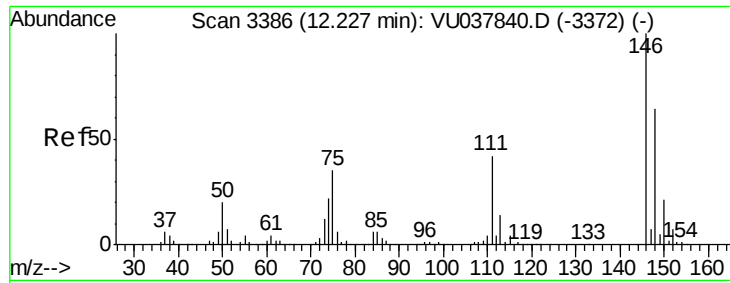
#63
 1,4-Dichlorobenzene
 Concen: 4.559 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	28.4	52.8
148	64.2	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





#65

1,2-Dichlorobenzene

Concen: 4.581 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

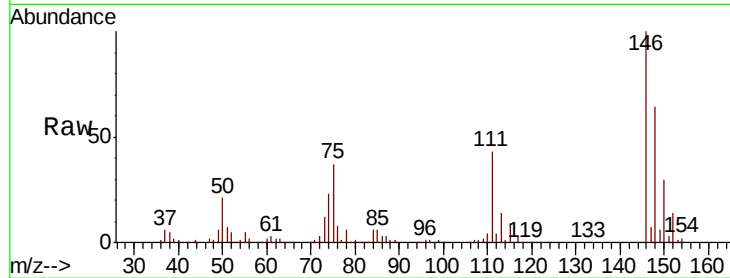
Tot Ion:146 Resp: 205057

Ion Ratio Lower Upper

146 100

111 42.9 35.0 52.6

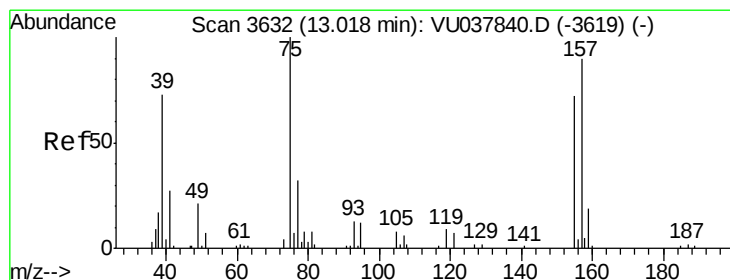
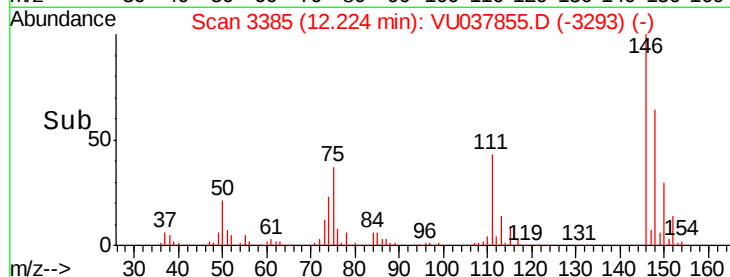
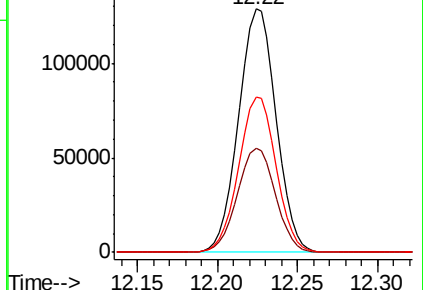
148 63.8 51.5 77.3



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.195 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

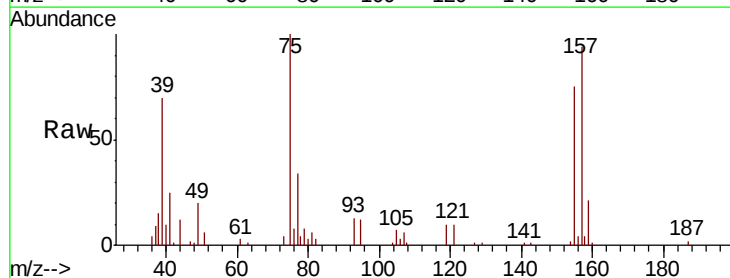
Tgt Ion: 75 Resp: 17408

Ion Ratio Lower Upper

75 100

155 74.7 57.9 86.9

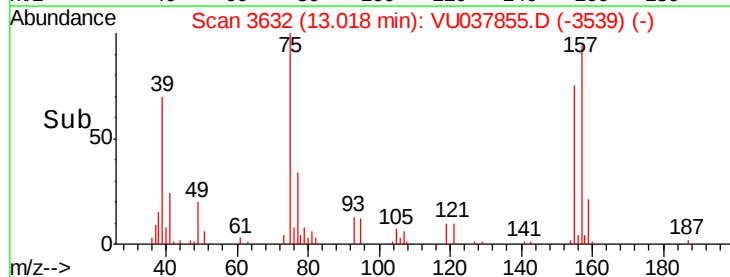
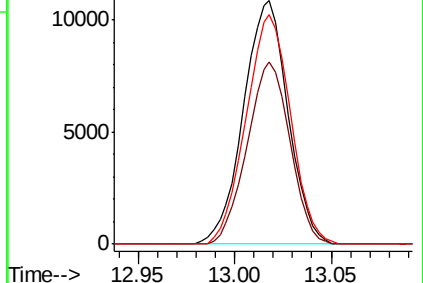
157 94.1 79.8 119.8

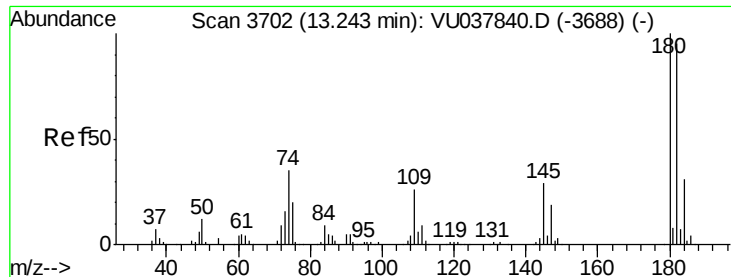


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

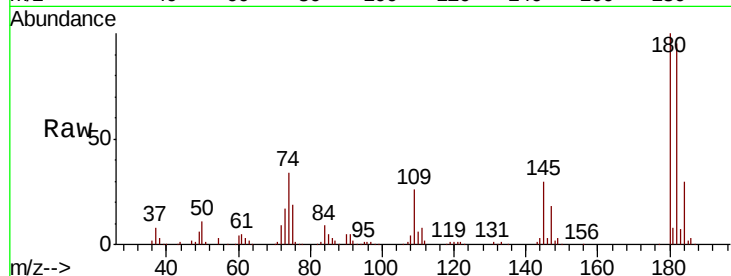




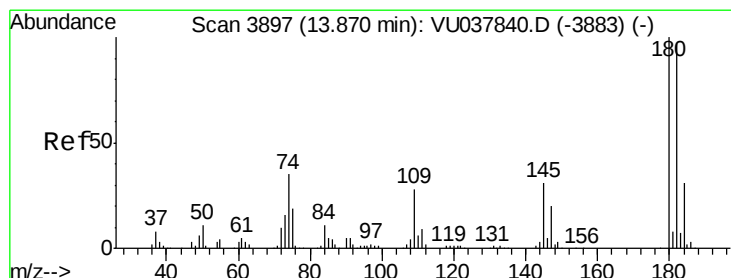
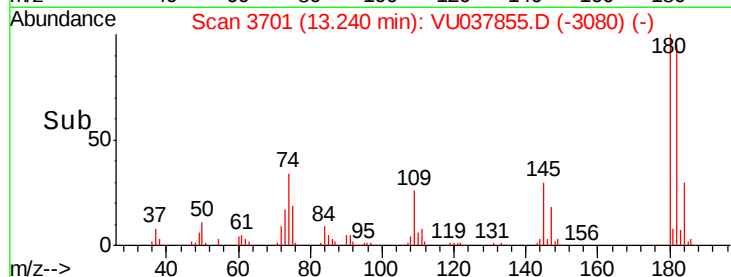
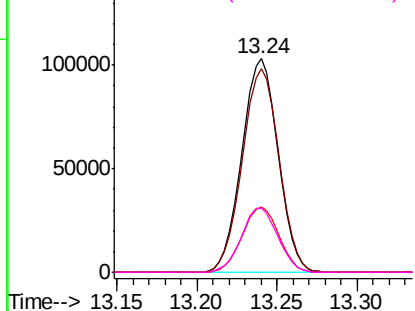
#67
 1,3,5-Trichlorobenzene
 Concen: 4.565 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 159173
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.1 115.7
 184 30.9 24.7 37.1
 145 30.1 24.6 37.0

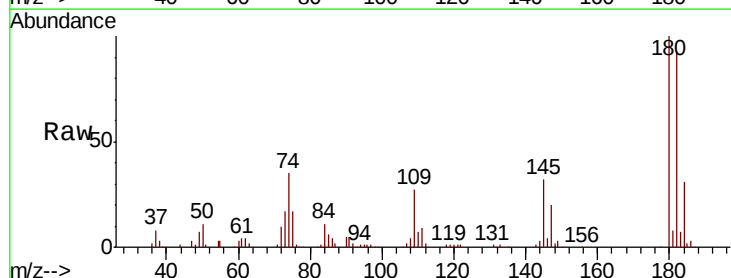


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

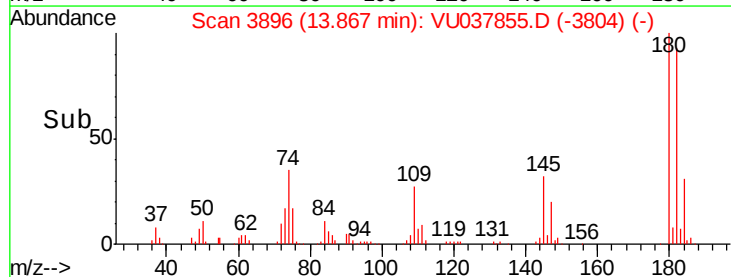
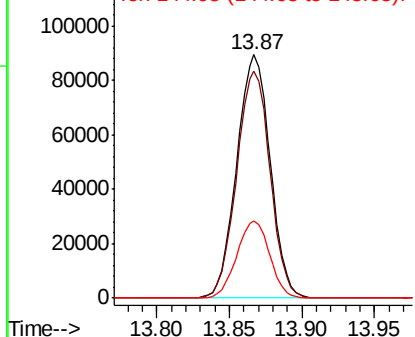


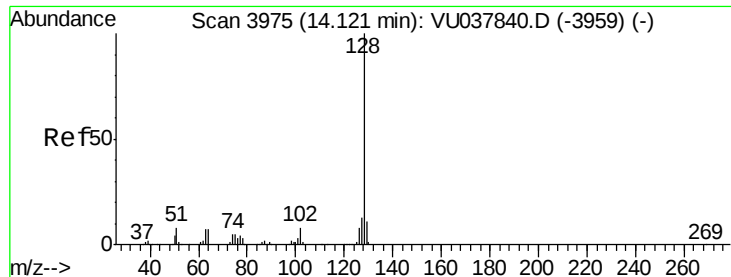
#68
 1,2,4-trichlorobenzene
 Concen: 4.476 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU037855.D
 Acq: 22 Apr 2020 20:10

Tgt Ion:180 Resp: 143276
 Ion Ratio Lower Upper
 180 100
 182 93.5 76.4 114.6
 145 31.1 25.1 37.7



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.153 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

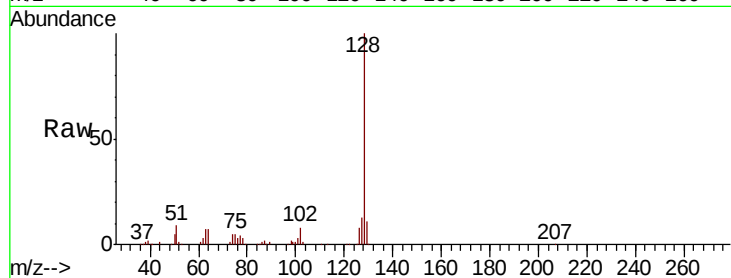
Tot Ion:128 Resp: 269182

Ion Ratio Lower Upper

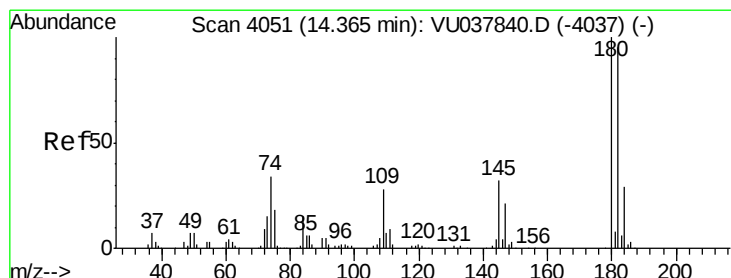
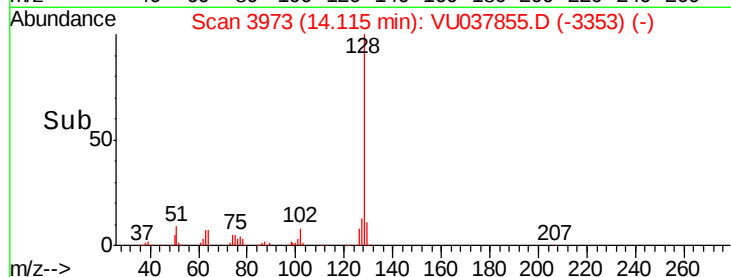
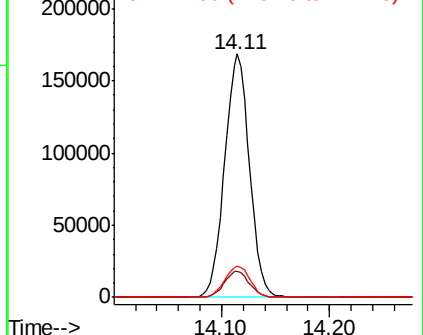
128 100

129 10.8 8.6 12.8

127 13.1 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.509 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VU037855.D

Acq: 22 Apr 2020 20:10

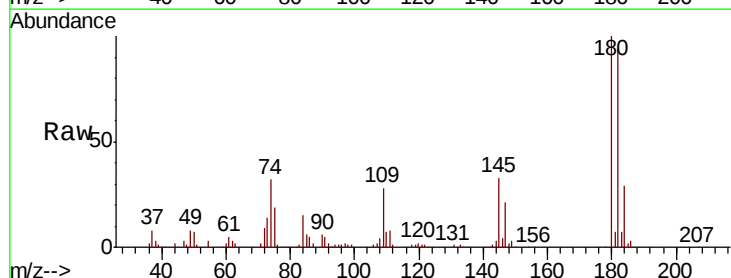
Tgt Ion:180 Resp: 128579

Ion Ratio Lower Upper

180 100

182 95.2 76.6 115.0

145 32.4 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

