

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072418\
 Data File : VU025619.D
 Acq On : 24 Jul 2018 10:10
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 25 02:21:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 24 02:07:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	311553	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	295447	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	161316	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	94554	53.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	106.32%
7) Chloroethane-d5	1.68	69	76777	52.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.66%
11) 1,1-Dichloroethene-d2	2.27	63	190152	51.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.70%
21) 2-Butanone-d5	4.18	46	150964	109.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.94%
24) Chloroform-d	4.65	84	208331	52.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.16%
26) 1,2-Dichloroethane-d4	5.31	65	134045	51.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.32%
32) Benzene-d6	5.35	84	390898	51.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.18%
36) 1,2-Dichloropropane-d6	6.34	67	123303	50.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.00%
41) Toluene-d8	7.57	98	378555	52.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.18%
43) trans-1,3-Dichloropropene-	7.85	79	65806	52.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.54%
47) 2-Hexanone-d5	8.31	63	108848	106.47	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.47%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	178279	52.21	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.42%
64) 1,2-Dichlorobenzene-d4	11.86	152	164020	50.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.34%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	134643	43.862	ug/L	100
3) Chloromethane	1.33	50	108458	48.924	ug/L	100
5) Vinyl chloride	1.41	62	106262	43.703	ug/L	100
6) Bromomethane	1.63	94	49116	58.086	ug/L	92
8) Chloroethane	1.70	64	62126	43.392	ug/L	99
9) Trichlorofluoromethane	1.89	101	154220	44.540	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	91648	47.266	ug/L	99
12) 1,1-Dichloroethene	2.28	96	81142	46.149	ug/L	89
13) Acetone	2.32	43	143394	88.970	ug/L	98
14) Carbon disulfide	2.48	76	248015	43.320	ug/L	100
15) Methyl Acetate	2.62	43	104014	46.686	ug/L	99
16) Methylene chloride	2.70	84	97287	44.418	ug/L	98
17) trans-1,2-Dichloroethene	2.99	96	92179	45.534	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	302807	45.929	ug/L	99
19) 1,1-Dichloroethane	3.45	63	174034	45.194	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	102211	44.730	ug/L	91
22) 2-Butanone	4.26	43	162177	90.387	ug/L	99

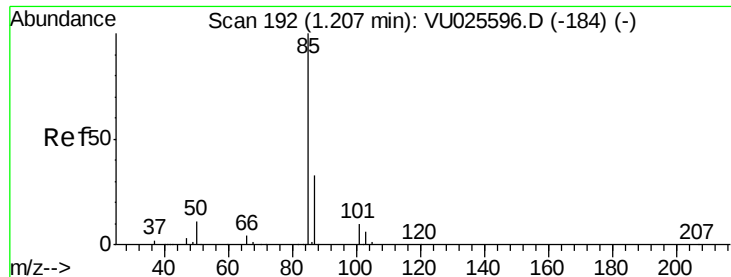
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072418\
 Data File : VU025619.D
 Acq On : 24 Jul 2018 10:10
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 Quant Title : VOC Analysis
 QLast Update : Tue Jul 24 02:07:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	54907	45.524	ug/L	98
25) Chloroform	4.68	83	184160	45.447	ug/L	98
27) 1,2-Dichloroethane	5.41	62	152505	46.142	ug/L	99
29) Cyclohexane	5.00	56	151957	44.394	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	166145	44.940	ug/L	100
31) Carbon tetrachloride	5.14	117	152387	44.577	ug/L	99
33) Benzene	5.39	78	383572	45.184	ug/L	100
34) Trichloroethene	6.19	95	104129	46.230	ug/L	99
35) Methylcyclohexane	6.42	83	169047	46.546	ug/L	98
37) 1,2-Dichloropropane	6.44	63	104352	44.983	ug/L	100
38) Bromodichloromethane	6.76	83	140760	46.022	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	170027	47.229	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	291763	95.774	ug/L	100
42) Toluene	7.64	91	420614	45.945	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	162481	47.868	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	98307	44.180	ug/L	97
46) Tetrachloroethene	8.23	164	93024	47.639	ug/L	96
48) 2-Hexanone	8.36	43	238812	92.773	ug/L	99
49) Dibromochloromethane	8.48	129	121355	46.493	ug/L	98
50) 1,2-Dibromoethane	8.59	107	109590	45.715	ug/L	99
51) Chlorobenzene	9.12	112	284217	46.115	ug/L	98
52) Ethylbenzene	9.25	91	475522	47.061	ug/L	100
53) m,p-Xylene	9.38	106	182660	47.195	ug/L	98
54) o-xylene	9.78	106	180828	46.045	ug/L	99
55) Styrene	9.80	104	311903	48.764	ug/L	99
56) Isopropylbenzene	10.17	105	482299	47.588	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	164021	45.699	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	122320	44.892	ug/L	99
61) Bromoform	9.96	173	91796	43.993	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	238769	46.792	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	244779	46.994	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	239782	44.854	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	38158	45.386	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	194890	49.480	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	167658	50.647	ug/L	99
69) Naphthalene	13.75	128	478841	48.101	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	169846	48.536	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.862 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

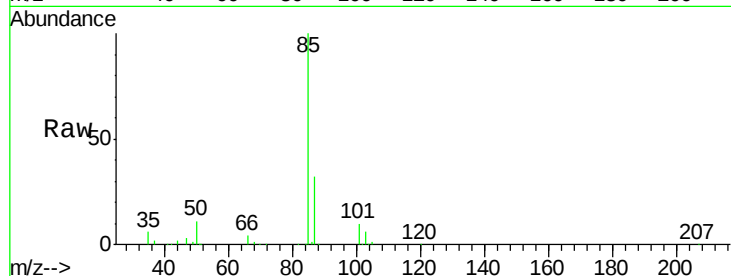
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 134643

Ion Ratio Lower Upper

85 100

87 32.3 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025596.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU025596.D (-184) (-)

1.21

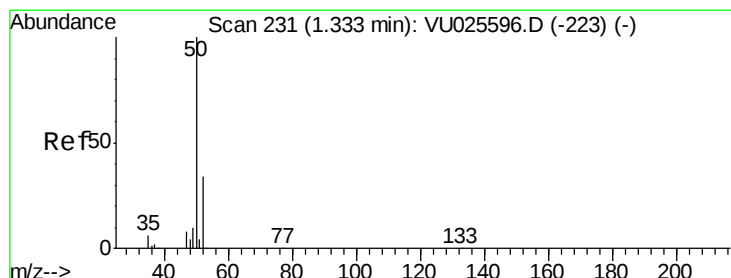
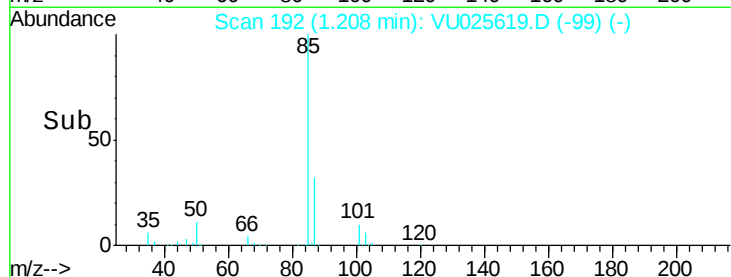
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 48.924 ug/L

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025619.D

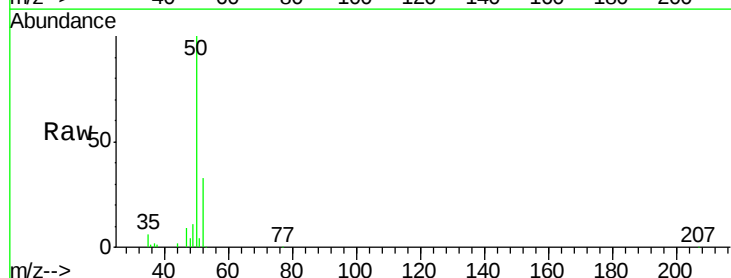
Acq: 24 Jul 2018 10:10

Tgt Ion: 50 Resp: 108458

Ion Ratio Lower Upper

50 100

52 33.1 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025596.D (-223) (-)

Ion 52.00 (51.70 to 52.70): VU025596.D (-223) (-)

1.33

100000

80000

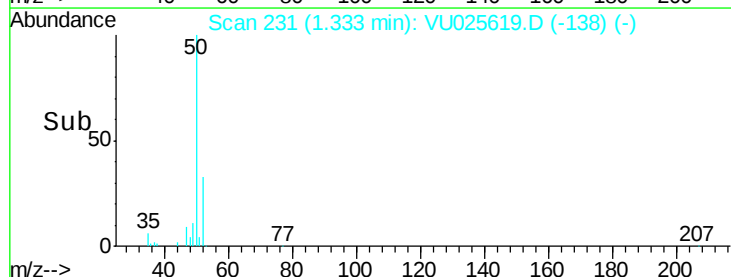
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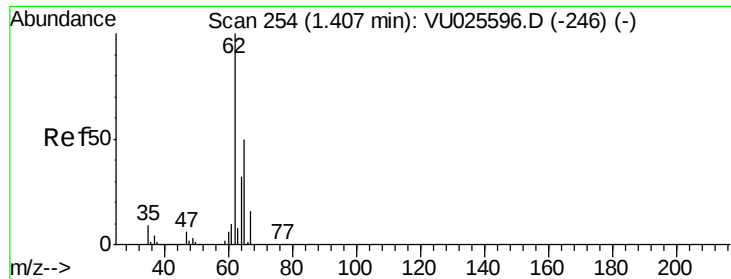
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 43.703 ug/L

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

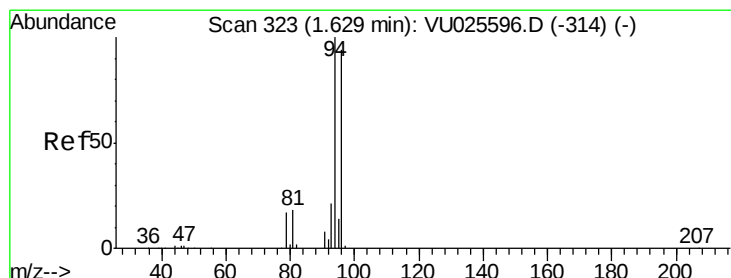
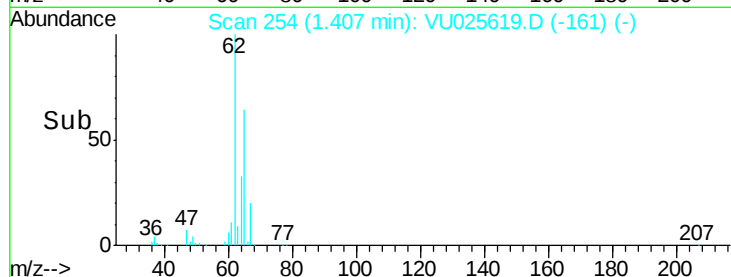
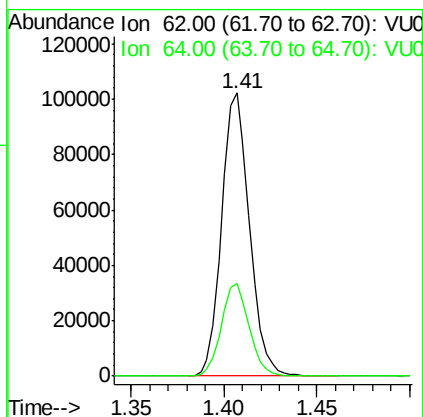
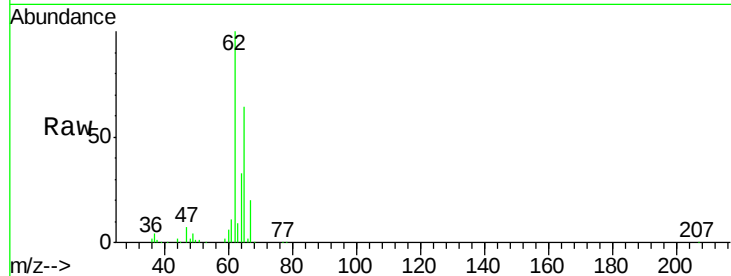
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 106262

Ion Ratio Lower Upper

62 100

64 32.6 22.7 42.1



#6

Bromomethane

Concen: 58.086 ug/L

RT: 1.63 min Scan# 323

Delta R.T. 0.00 min

Lab File: VU025619.D

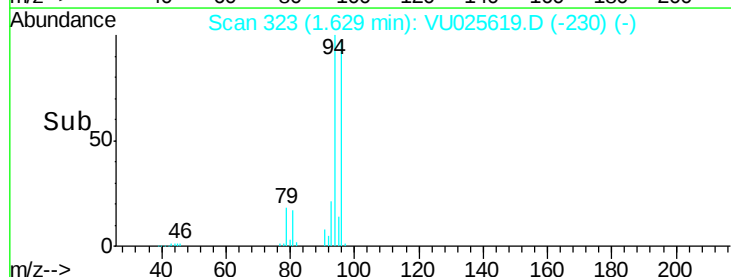
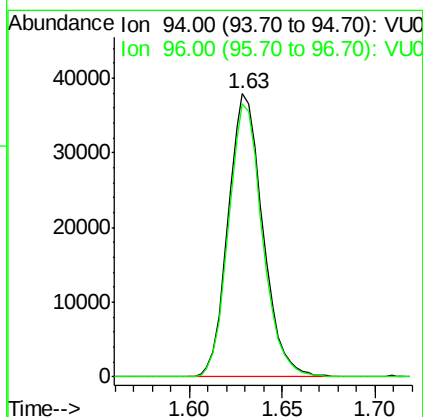
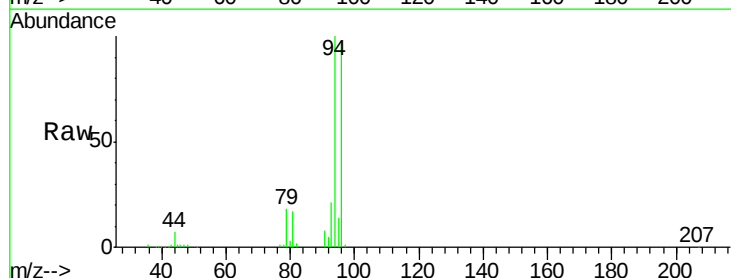
Acq: 24 Jul 2018 10:10

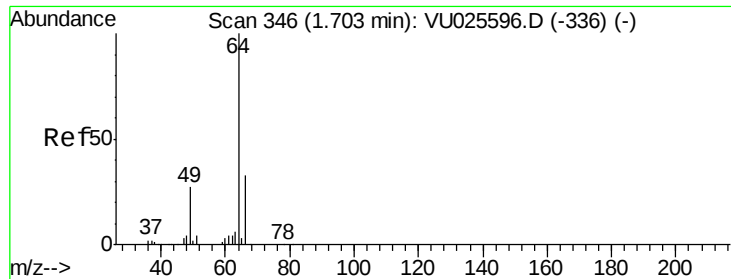
Tgt Ion: 94 Resp: 49116

Ion Ratio Lower Upper

94 100

96 96.6 62.4 115.8

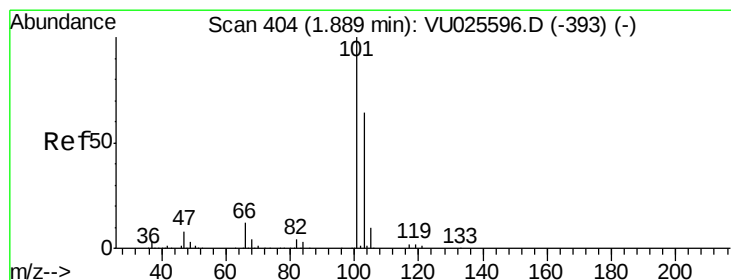
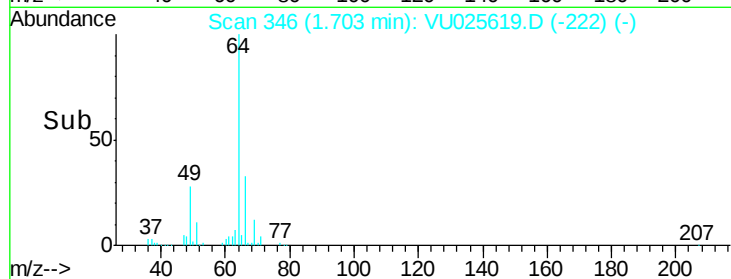
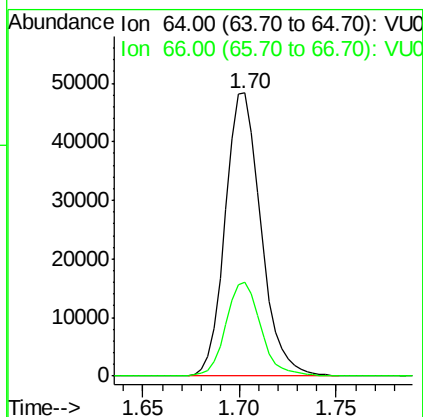
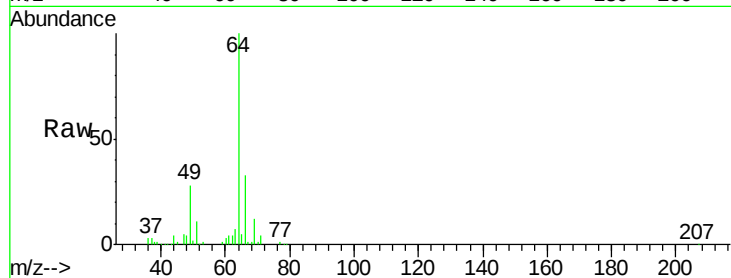




#8
Chloroethane
Concen: 43.392 ug/L
RT: 1.70 min Scan# 346
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

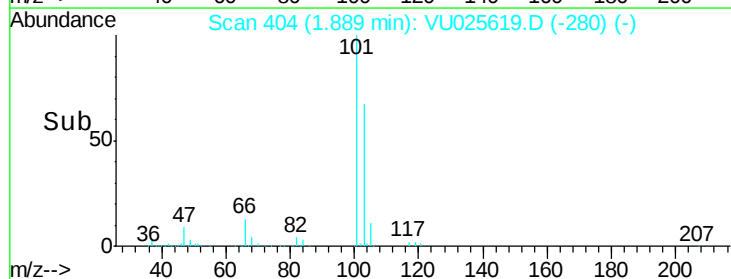
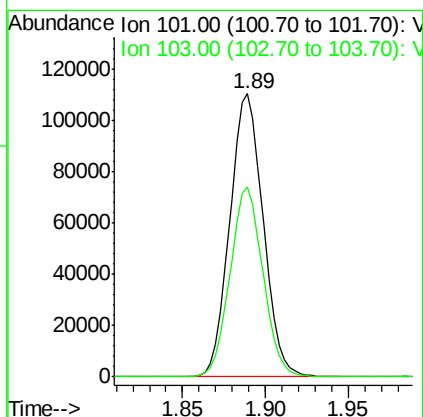
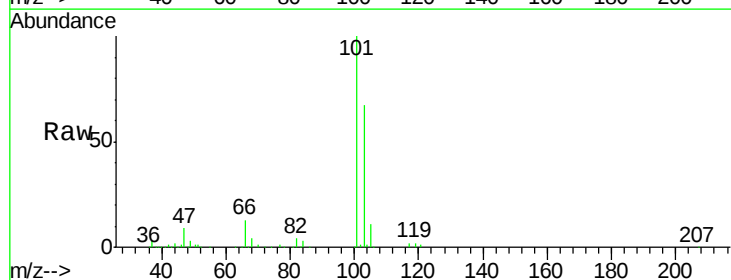
Instrument :
MSVOA_U
ClientSampleId :

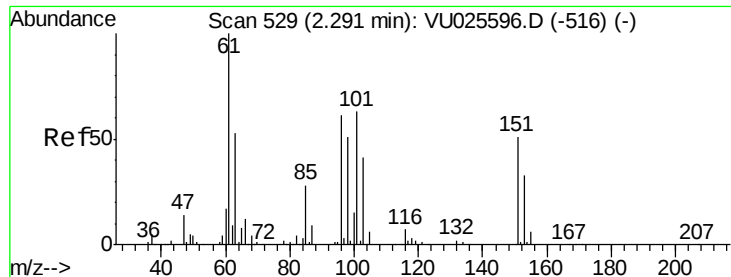
Tot Ion: 64 Resp: 62126
Ion Ratio Lower Upper
64 100
66 33.2 23.5 43.7



#9
Trichlorofluoromethane
Concen: 44.540 ug/L
RT: 1.89 min Scan# 404
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

Tgt Ion:101 Resp: 154220
Ion Ratio Lower Upper
101 100
103 66.2 52.0 78.0





#10

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

Concen: 47.266 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

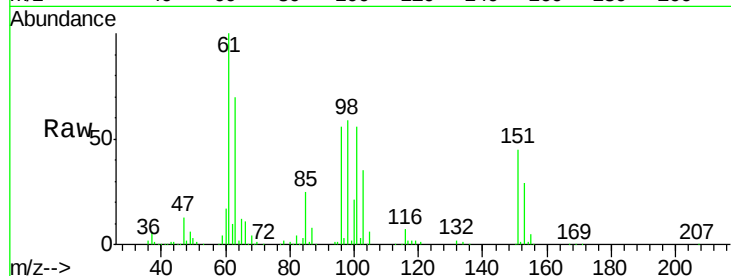
Tot Ion:101 Resp: 91648

Ion Ratio Lower Upper

101 100

85 44.0 35.5 53.3

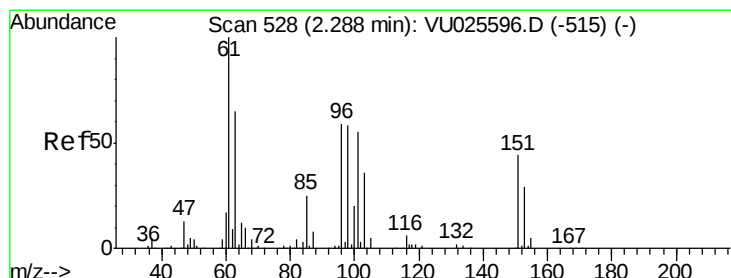
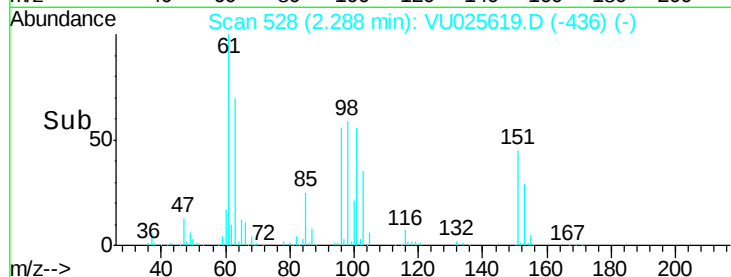
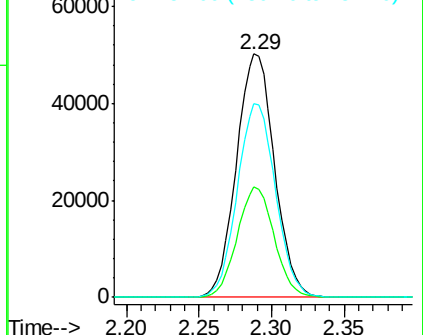
151 79.9 63.5 95.3



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: 46.149 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

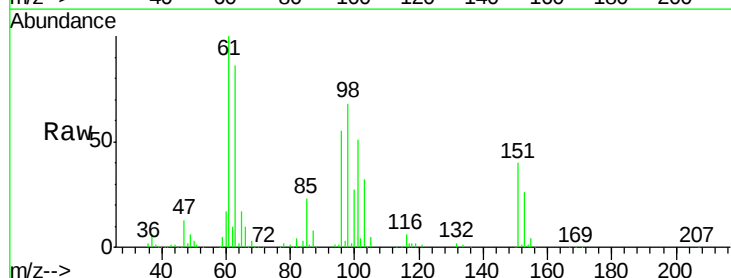
Tgt Ion: 96 Resp: 81142

Ion Ratio Lower Upper

96 100

61 180.6 122.5 227.5

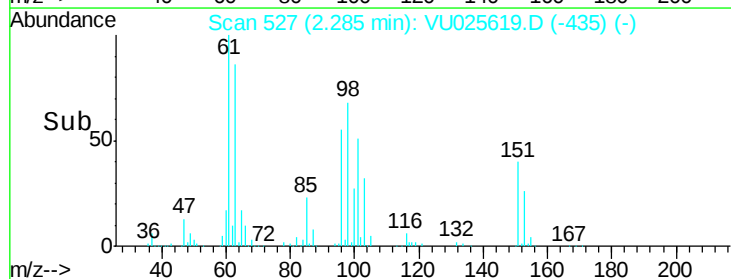
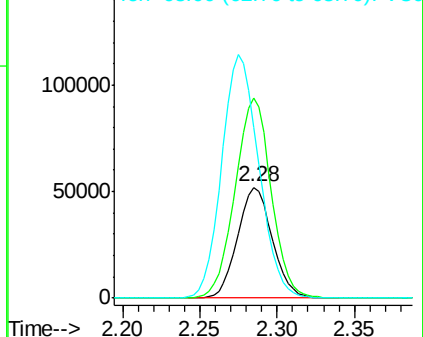
63 154.7 90.9 168.9

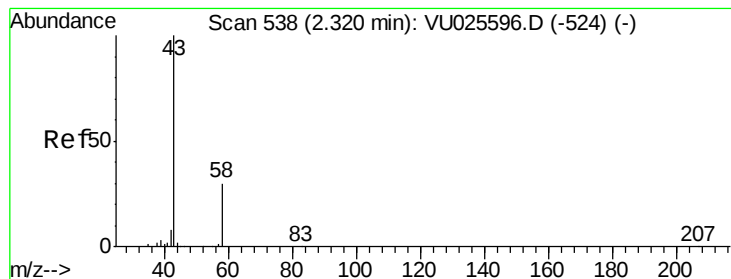


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 88.970 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

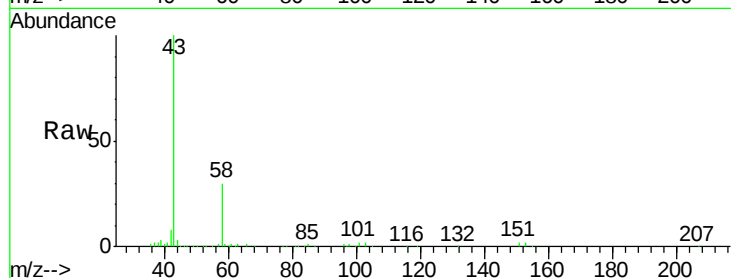
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 143394

Ion Ratio Lower Upper

43 100

58 29.7 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU025596.D (-524) (-)

Ion 58.00 (57.70 to 58.70): VU025596.D (-524) (-)

2.32

100000

80000

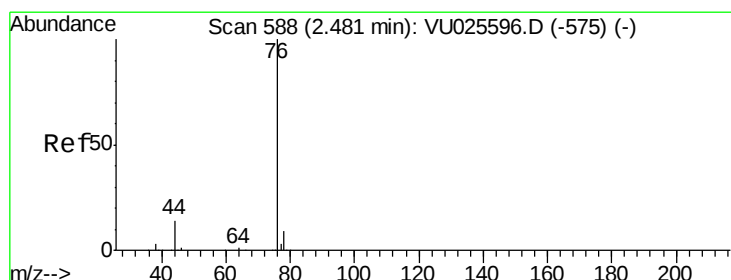
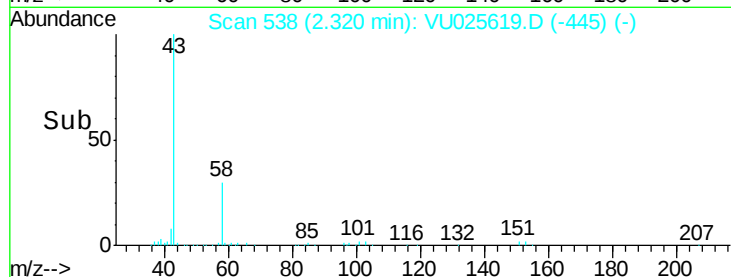
60000

40000

20000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 43.320 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025619.D

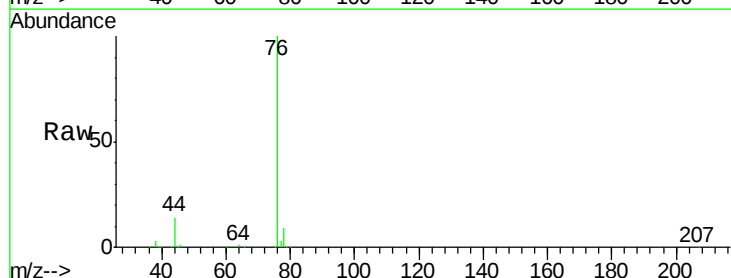
Acq: 24 Jul 2018 10:10

Tgt Ion: 76 Resp: 248015

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU025596.D (-575) (-)

Ion 78.00 (77.70 to 78.70): VU025596.D (-575) (-)

2.48

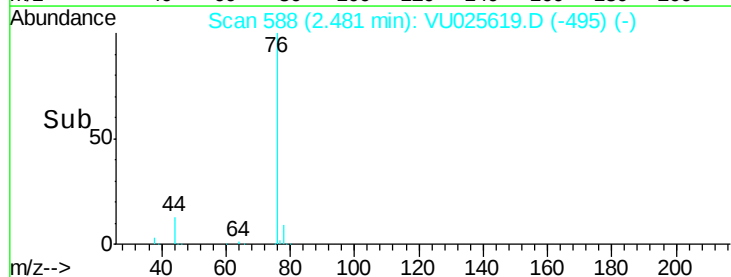
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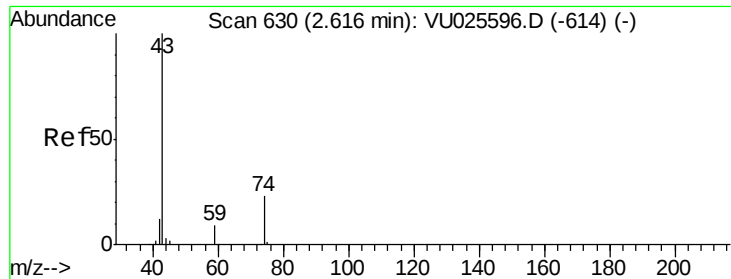
100000

50000

0

Time--> 2.40 2.45 2.50 2.55

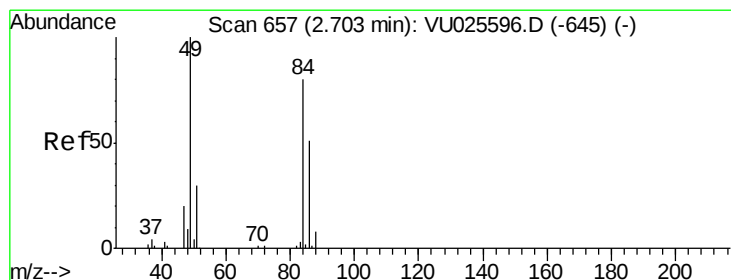
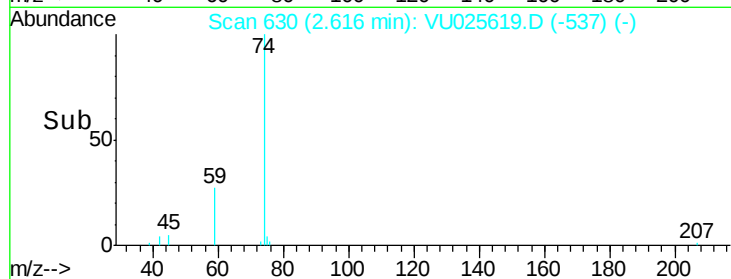
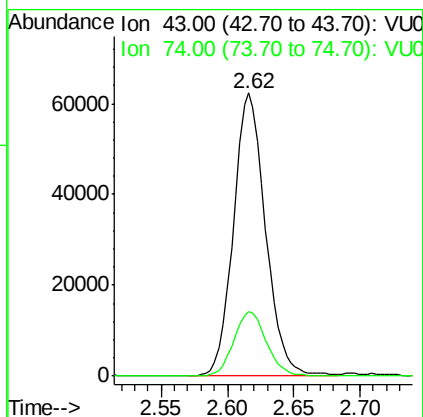
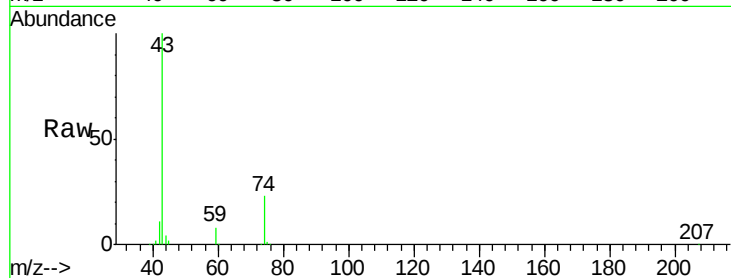




#15
Methyl Acetate
Concen: 46.686 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

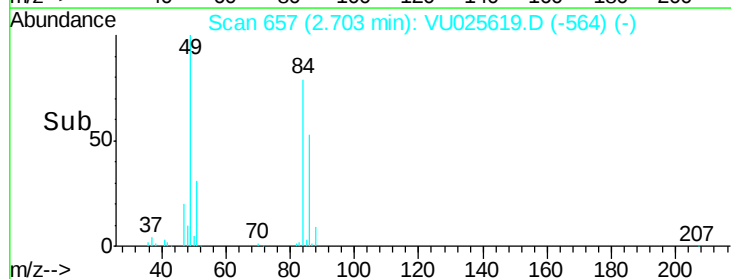
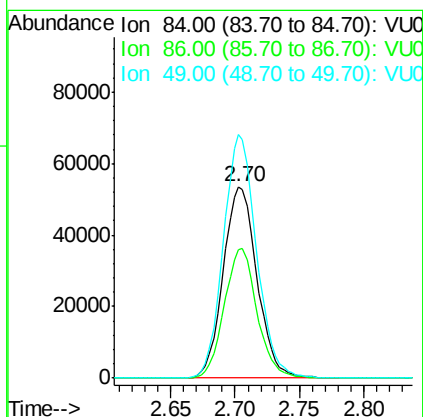
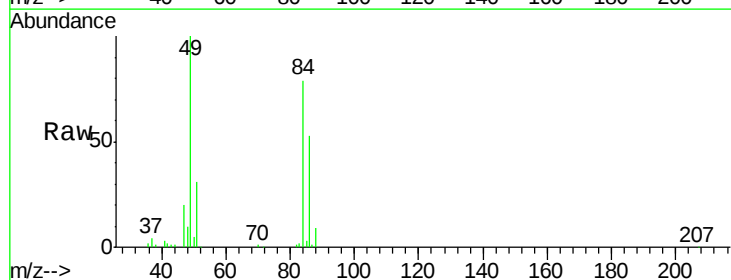
Instrument :
MSVOA_U
ClientSampled :

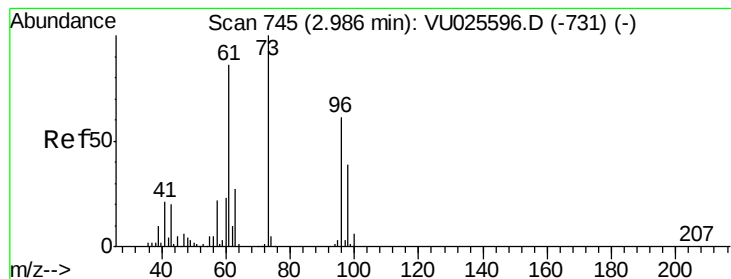
Tot Ion: 43 Resp: 104014
Ion Ratio Lower Upper
43 100
74 23.5 18.3 27.5



#16
Methylene chloride
Concen: 44.418 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

Tgt Ion: 84 Resp: 97287
Ion Ratio Lower Upper
84 100
86 67.0 45.6 84.6
49 127.1 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 45.534 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampled :

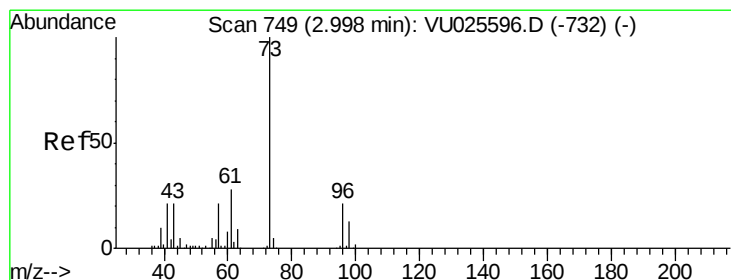
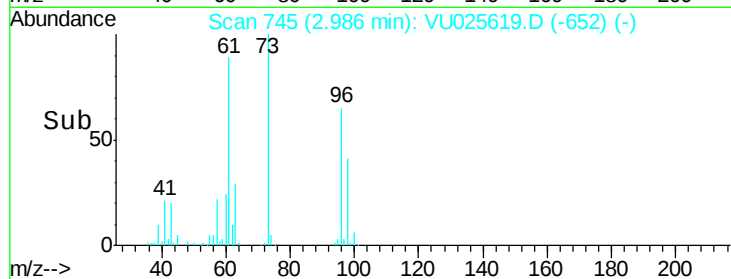
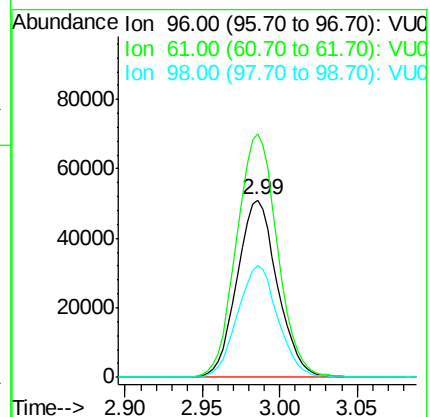
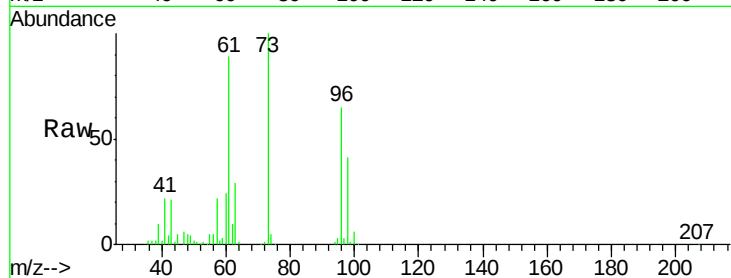
Tot Ion: 96 Resp: 92179

Ion Ratio Lower Upper

96 100

61 137.4 100.0 185.8

98 63.1 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 45.929 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

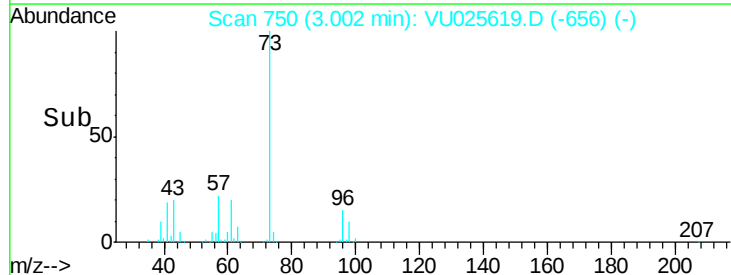
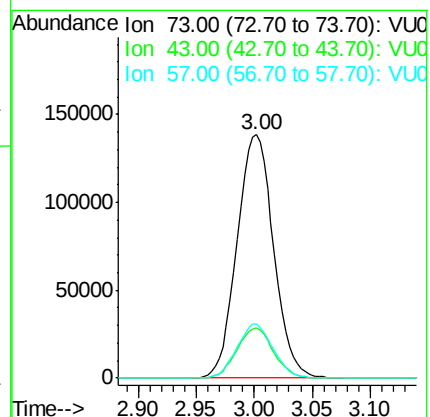
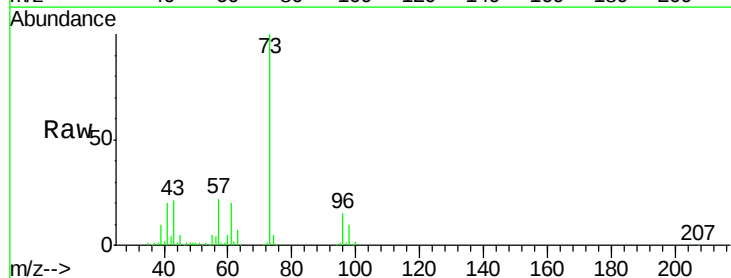
Tgt Ion: 73 Resp: 302807

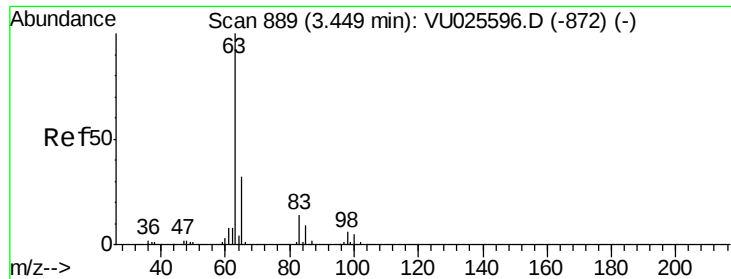
Ion Ratio Lower Upper

73 100

43 20.4 16.2 24.2

57 22.0 17.1 25.7

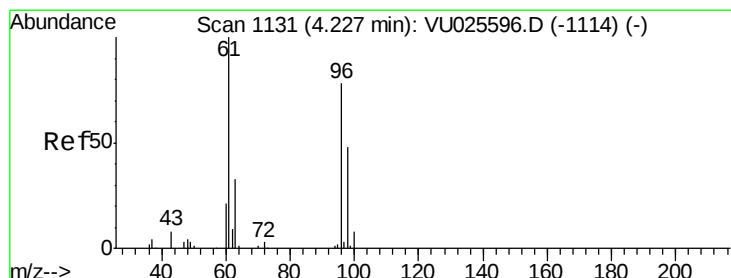
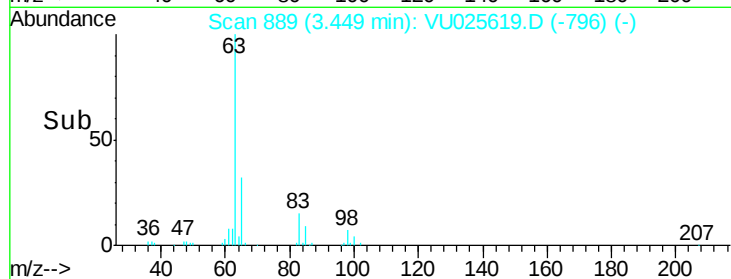
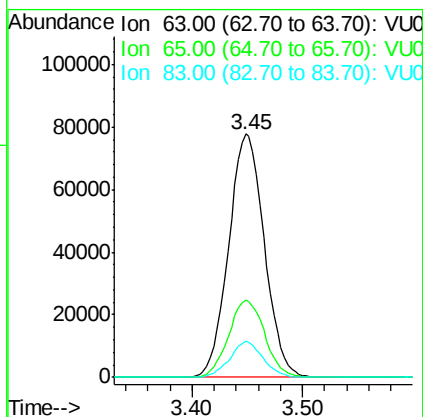
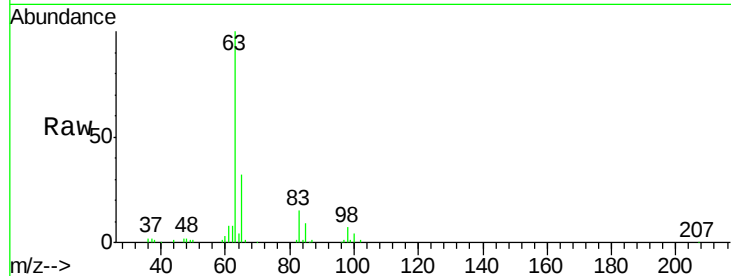




#19
 1,1-Dichloroethane
 Concen: 45.194 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

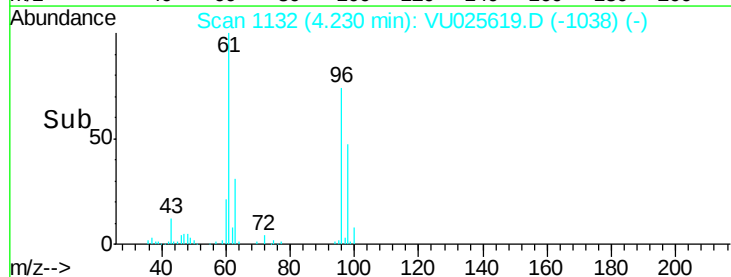
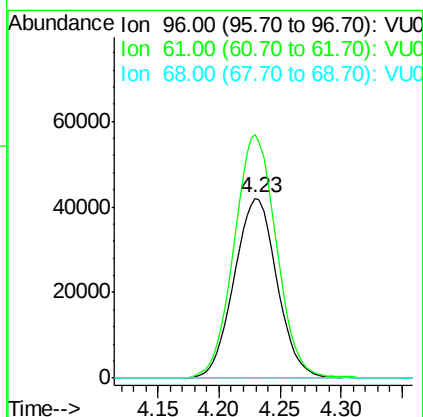
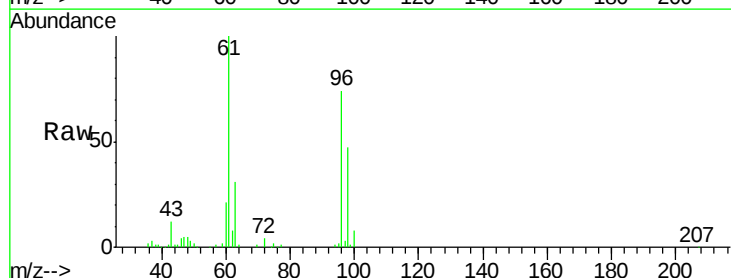
Instrument :
 MSVOA_U
 ClientSampled :

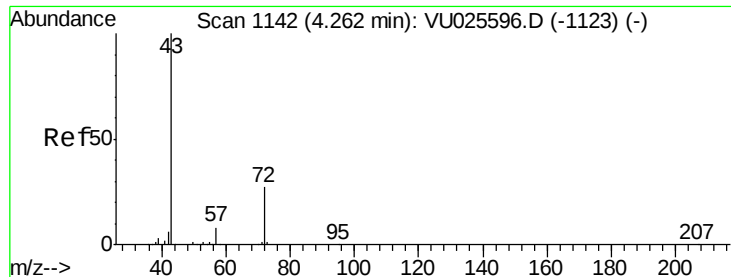
Tot Ion: 63 Resp: 174034
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.0 41.0
 83 14.8 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 44.730 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

Tgt Ion: 96 Resp: 102211
 Ion Ratio Lower Upper
 96 100
 61 135.3 87.4 162.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 90.387 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

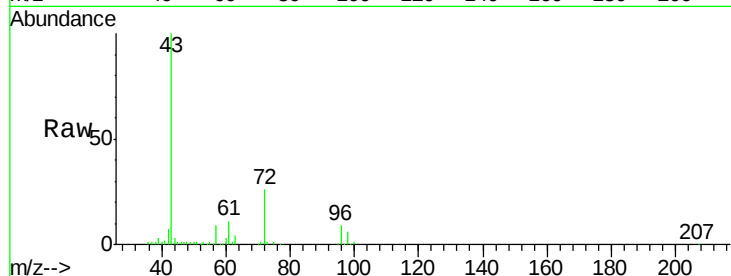
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 162177

Ion Ratio Lower Upper

43 100

72 26.7 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025596.D (-1123) (-)

Ion 72.00 (71.70 to 72.70): VU025596.D (-1123) (-)

4.26

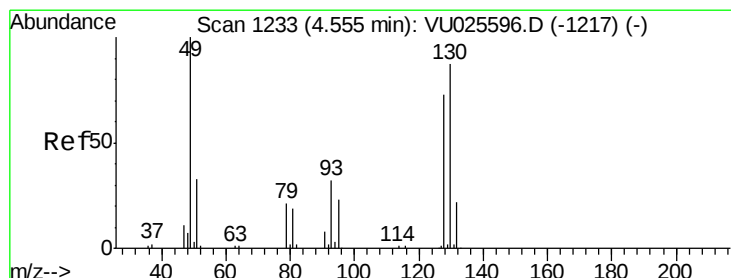
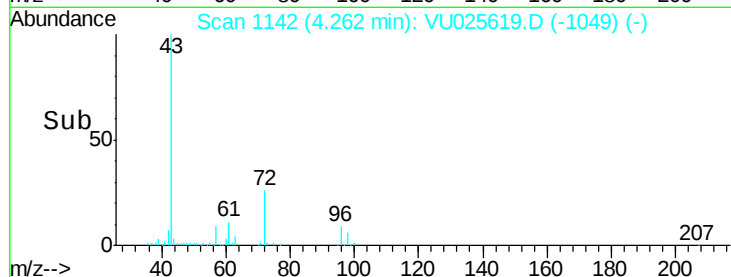
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 45.524 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Tgt Ion:128 Resp: 54907

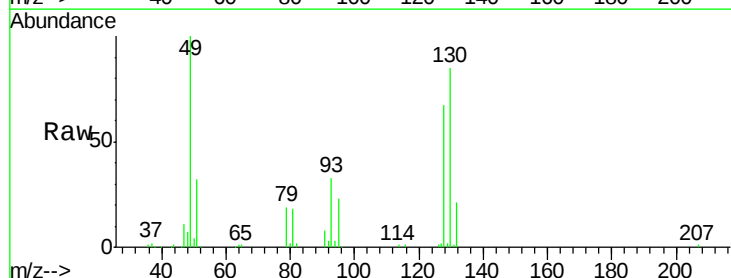
Ion Ratio Lower Upper

128 100

49 150.1 103.3 191.8

130 128.1 90.4 167.8

51 48.8 35.5 53.3



Abundance Ion 128.00 (127.70 to 128.70): VU025596.D (-1217) (-)

Ion 49.00 (48.70 to 49.70): VU025596.D (-1217) (-)

Ion 130.00 (129.70 to 130.70): VU025596.D (-1217) (-)

Ion 51.00 (50.70 to 51.70): VU025596.D (-1217) (-)

4.55

50000

40000

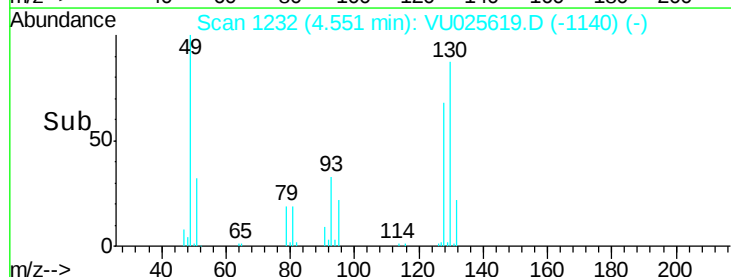
30000

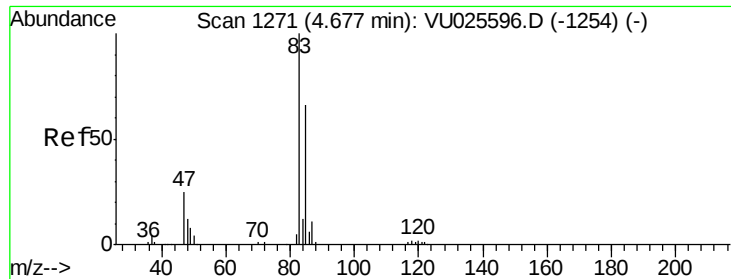
20000

10000

0

Time-->





#25

Chloroform

Concen: 45.447 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

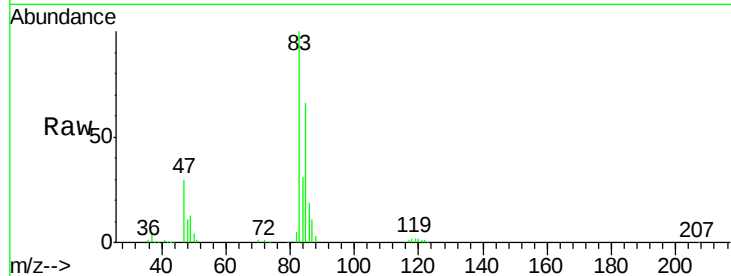
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 184160

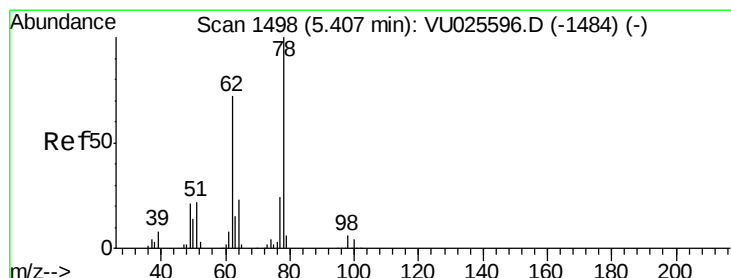
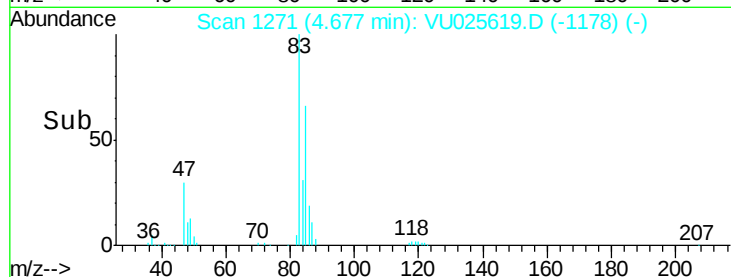
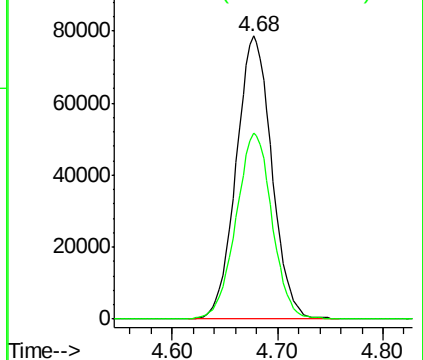
Ion Ratio Lower Upper

83 100

85 65.6 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 46.142 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU025619.D

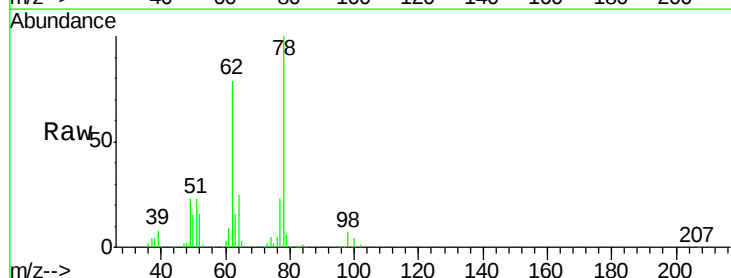
Acq: 24 Jul 2018 10:10

Tgt Ion: 62 Resp: 152505

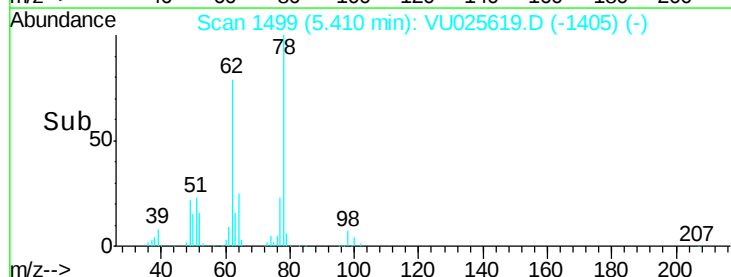
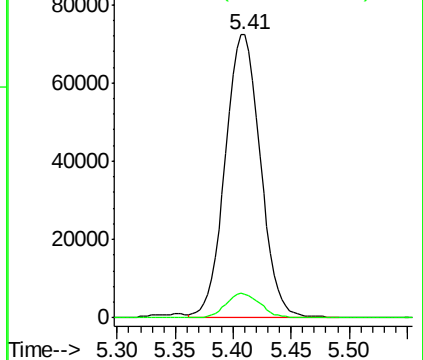
Ion Ratio Lower Upper

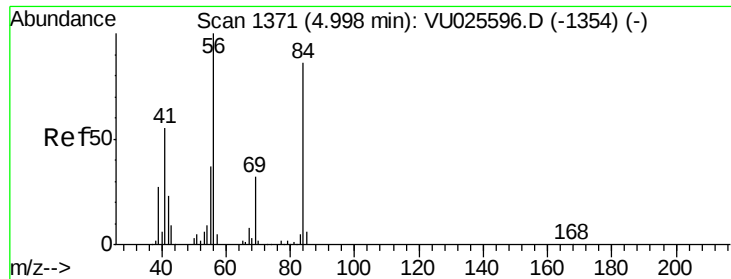
62 100

98 8.4 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

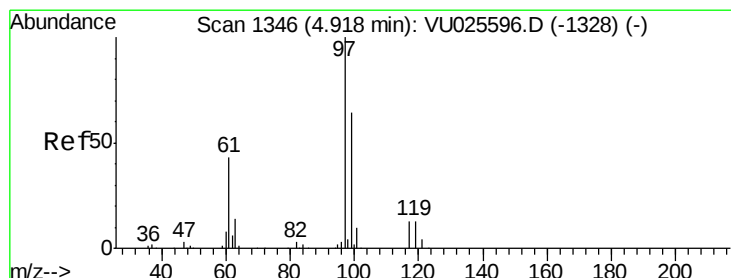
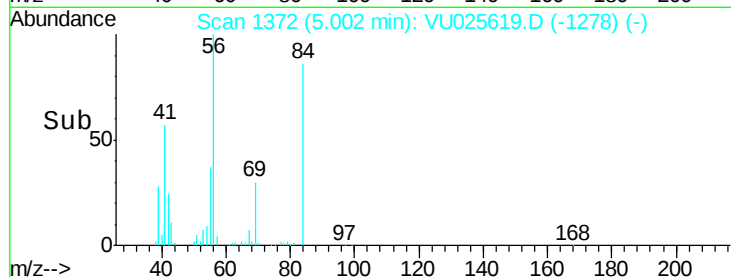
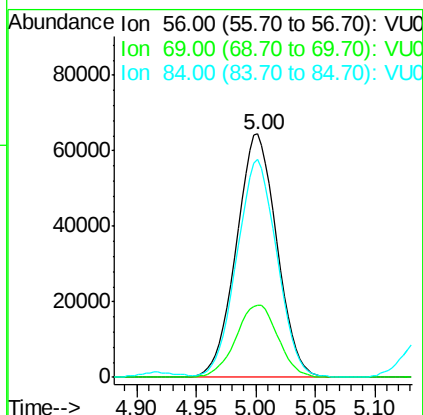
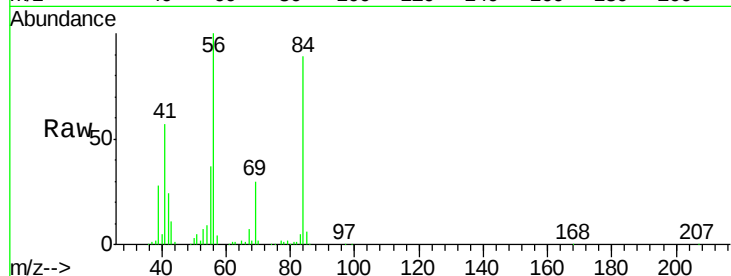




#29
Cyclohexane
Concen: 44.394 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

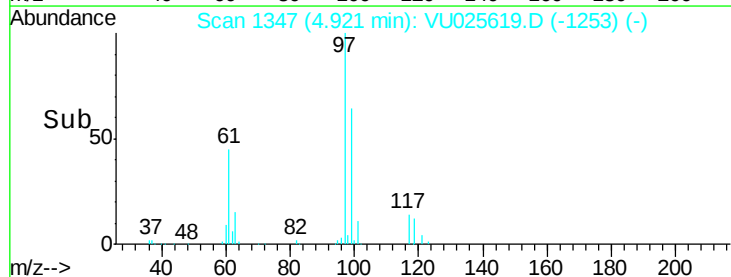
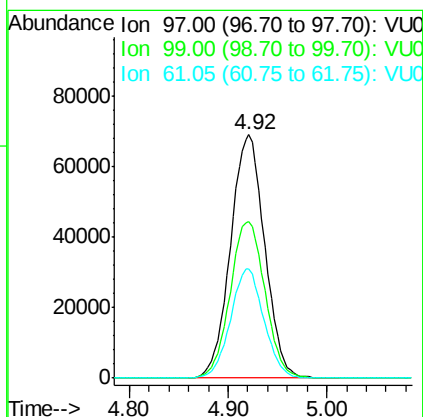
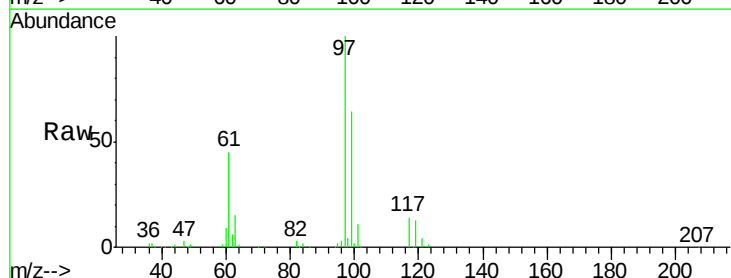
Instrument :
MSVOA_U
ClientSampleId :

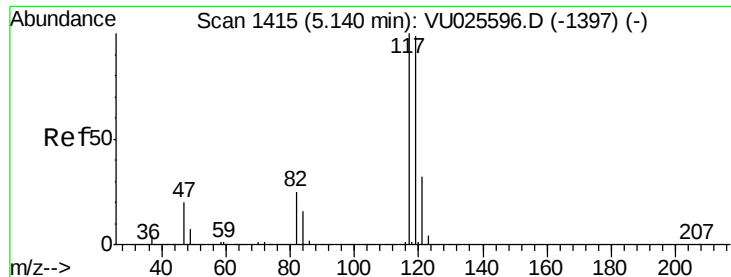
Tot Ion: 56 Resp: 151957
Ion Ratio Lower Upper
56 100
69 30.9 24.8 37.2
84 89.2 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 44.940 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

Tgt Ion: 97 Resp: 166145
Ion Ratio Lower Upper
97 100
99 65.7 52.4 78.6
61 43.7 34.6 52.0





#31

Carbon tetrachloride

Concen: 44.577 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

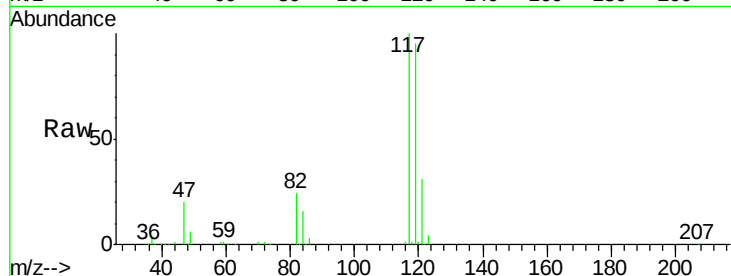
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 152387

Ion Ratio Lower Upper

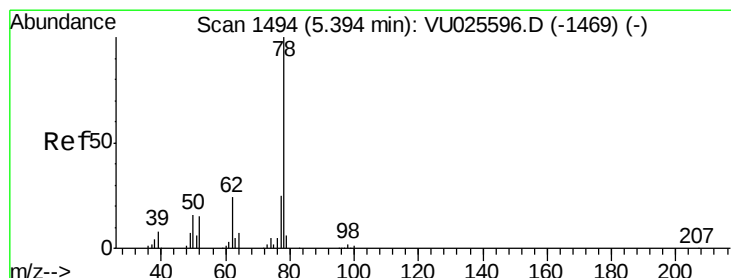
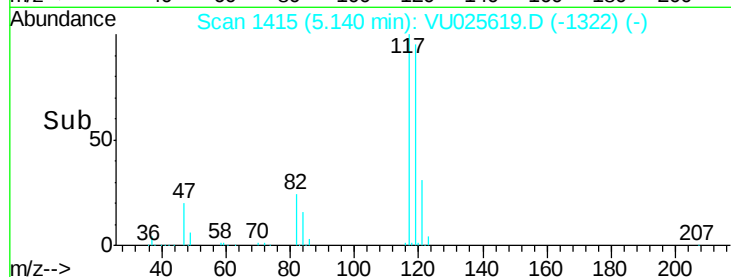
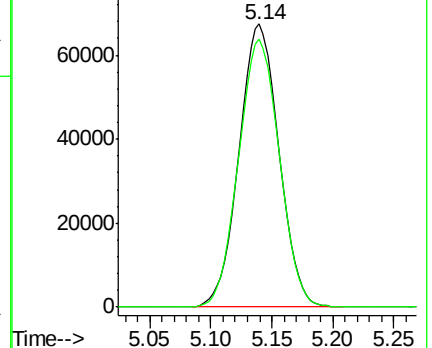
117 100

119 96.7 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 45.184 ug/L

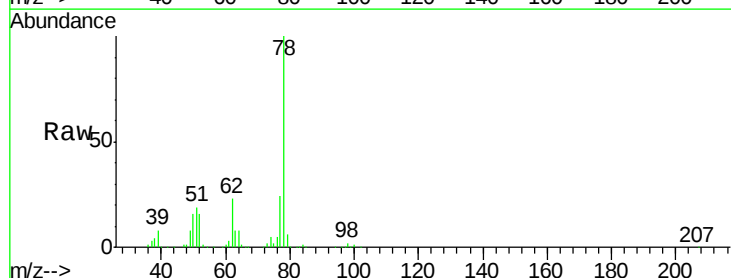
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

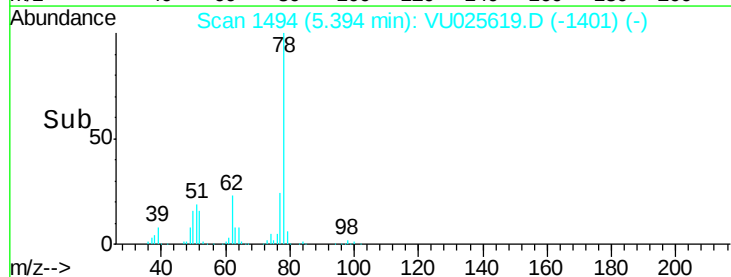
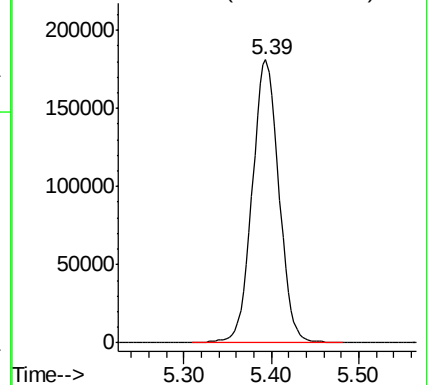
Lab File: VU025619.D

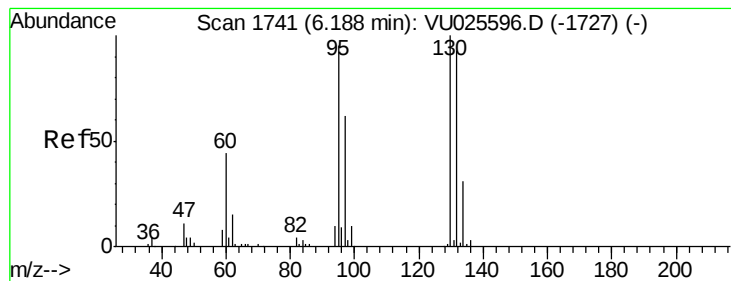
Acq: 24 Jul 2018 10:10

Tgt Ion: 78 Resp: 383572



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 46.230 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 95 Resp: 104129

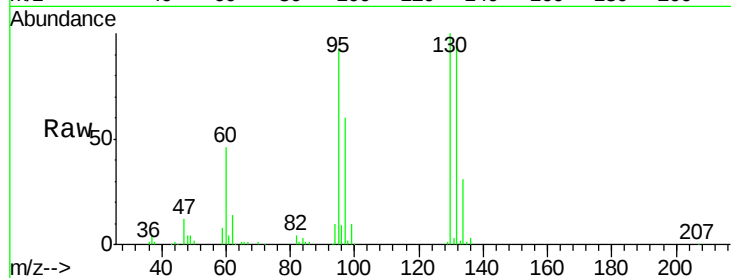
Ion Ratio Lower Upper

95 100

97 64.1 45.9 85.3

132 101.0 72.2 134.2

130 107.0 74.9 139.1

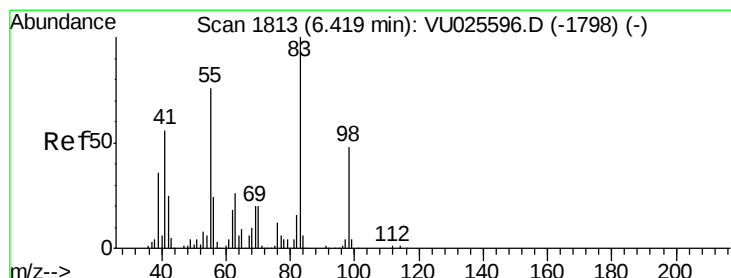
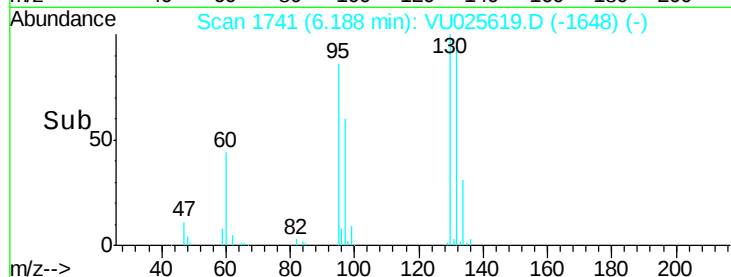
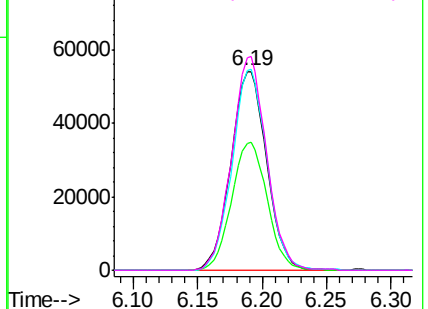


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 46.546 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

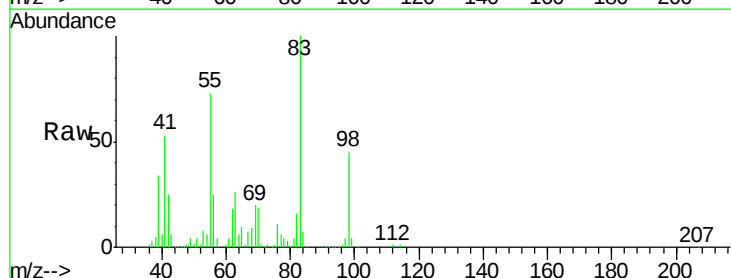
Tgt Ion: 83 Resp: 169047

Ion Ratio Lower Upper

83 100

55 74.5 61.1 91.7

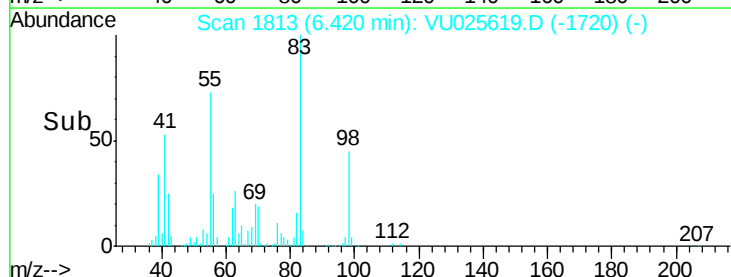
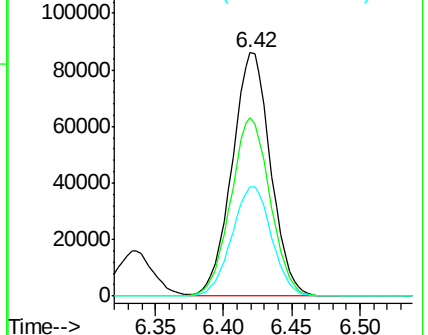
98 46.2 38.6 57.8

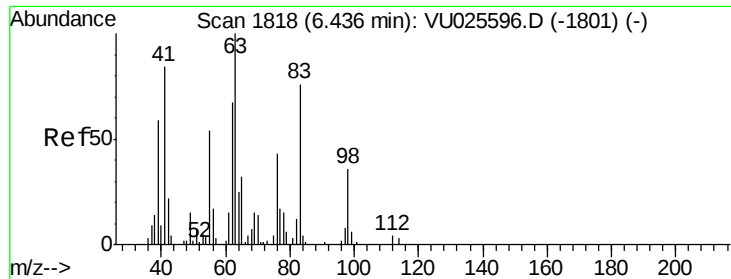


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

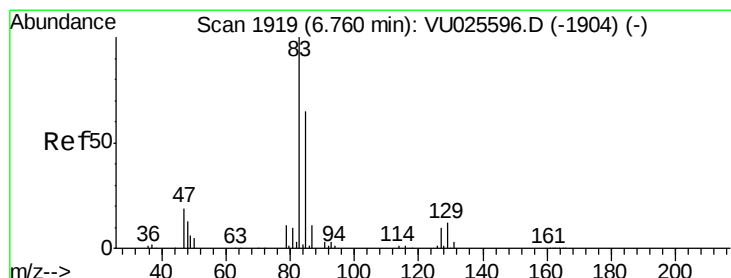
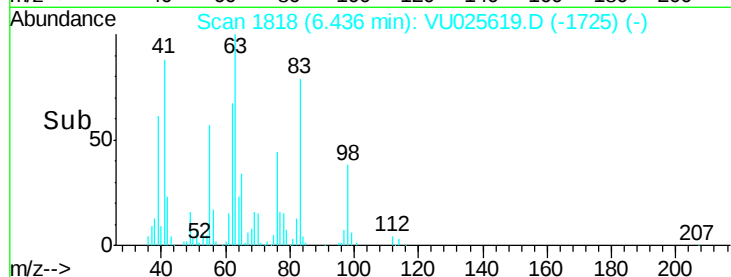
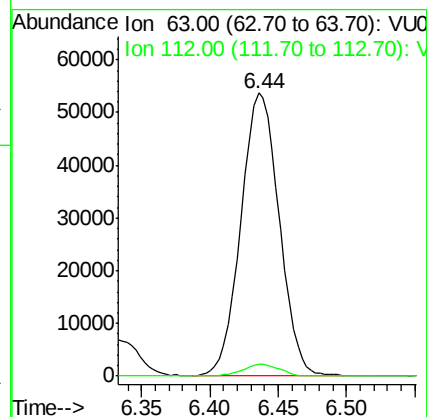
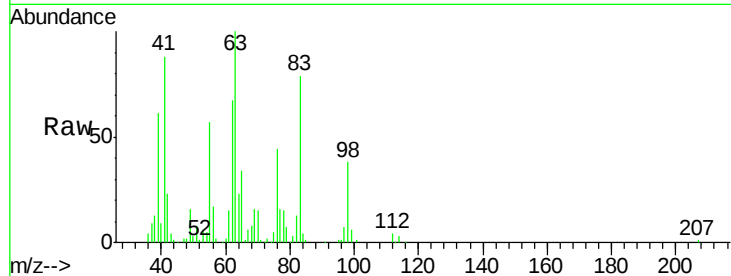




#37
 1,2-Dichloropropane
 Concen: 44.983 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

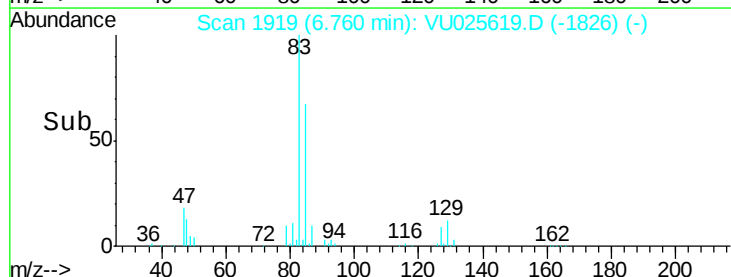
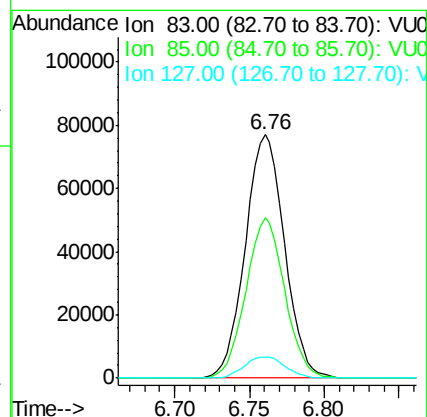
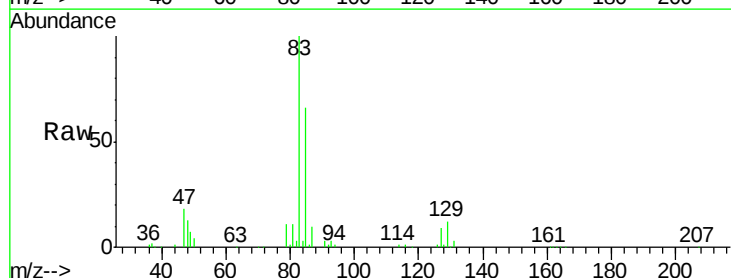
Instrument :
 MSVOA_U
 ClientSampleId :

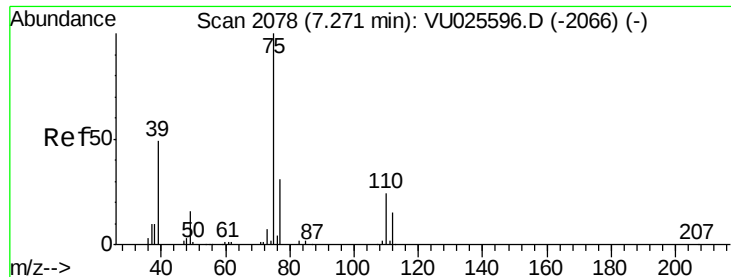
Tot Ion: 63 Resp: 104352
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 46.022 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

Tgt Ion: 83 Resp: 140760
 Ion Ratio Lower Upper
 83 100
 85 65.8 46.7 86.7
 127 8.8 8.0 12.0

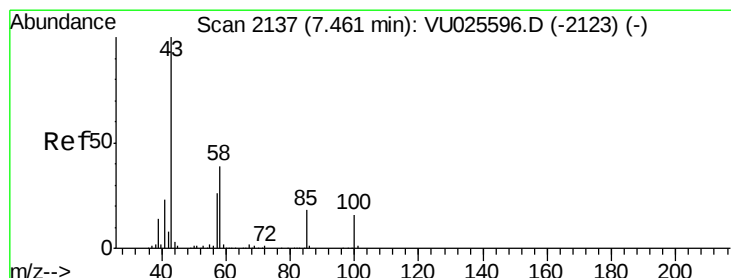
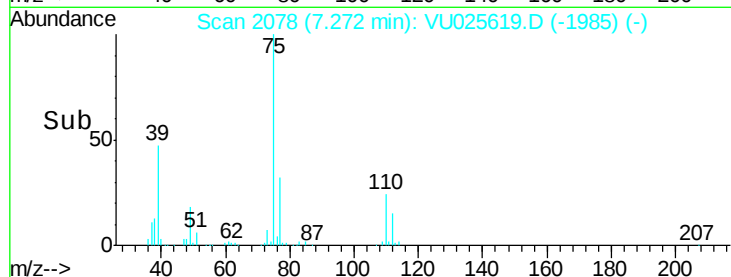
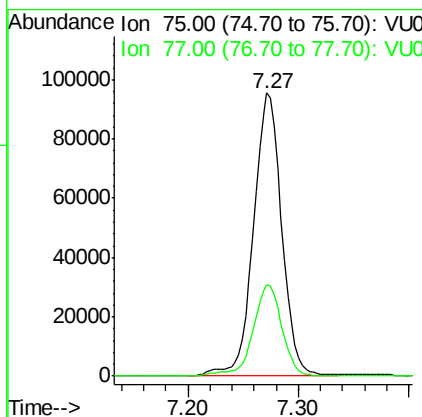
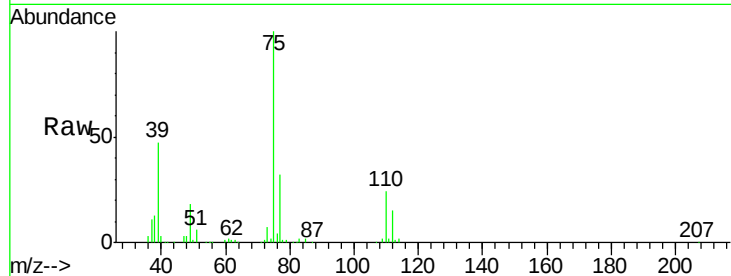




#39
 cis-1,3-Dichloropropene
 Concen: 47.229 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

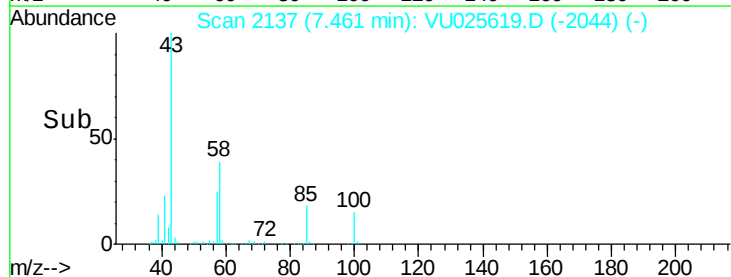
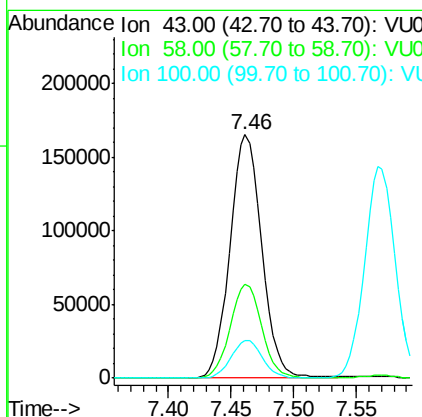
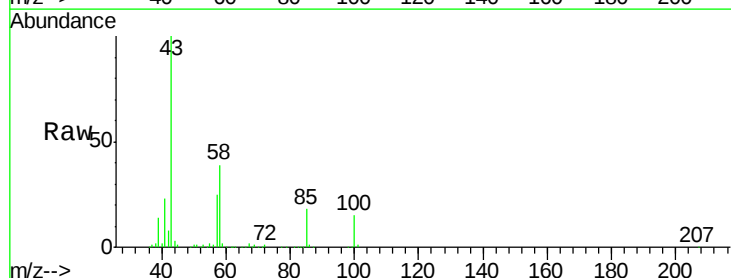
Instrument :
 MSVOA_U
 ClientSampleId :

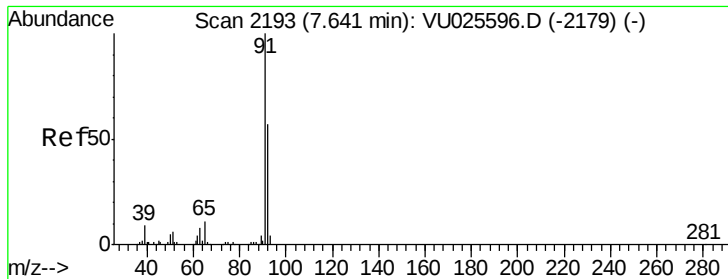
Tot Ion: 75 Resp: 170027
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 95.774 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

Tgt Ion: 43 Resp: 291763
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.8 46.2
 100 15.2 12.1 18.1





#42

Toluene

Concen: 45.945 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

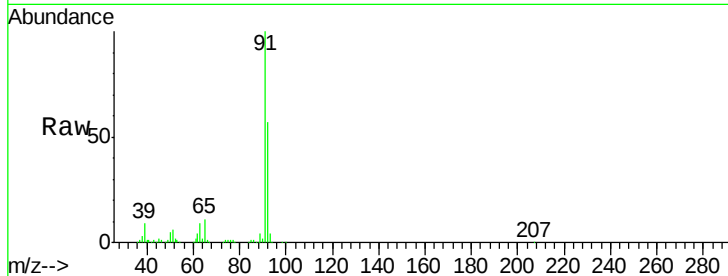
ClientSampled :

Tot Ion: 91 Resp: 420614

Ion Ratio Lower Upper

91 100

92 57.1 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

250000

200000

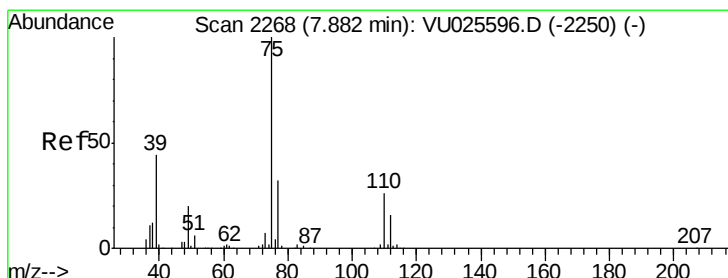
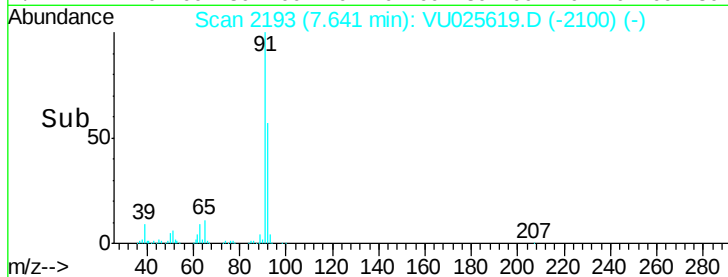
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 47.868 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025619.D

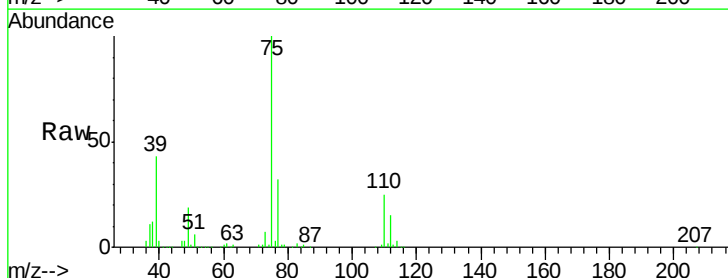
Acq: 24 Jul 2018 10:10

Tgt Ion: 75 Resp: 162481

Ion Ratio Lower Upper

75 100

77 31.6 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

100000

80000

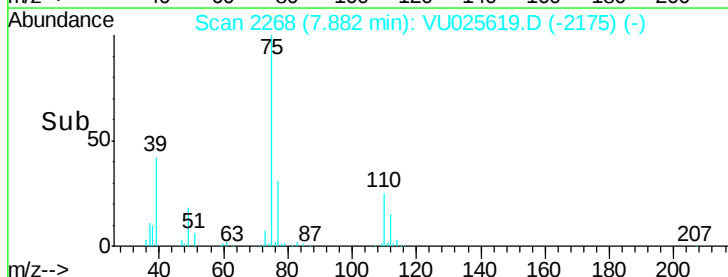
60000

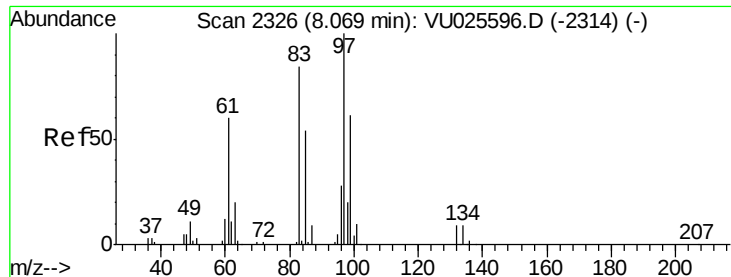
40000

20000

0

Time-->

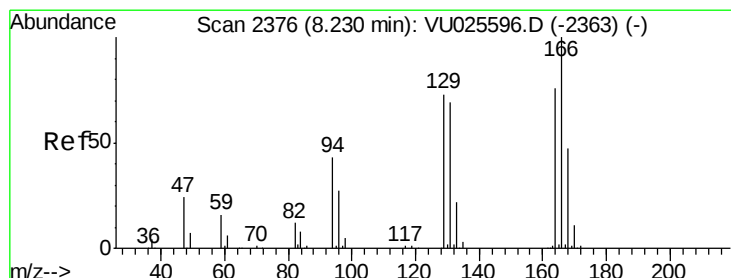
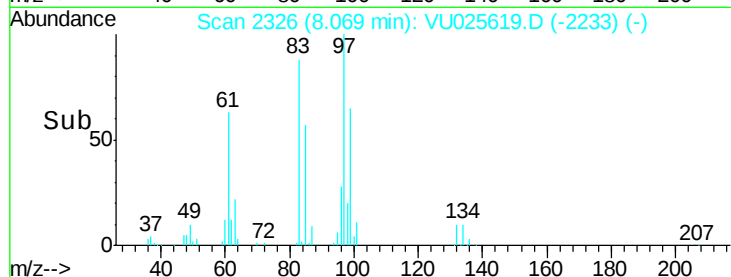
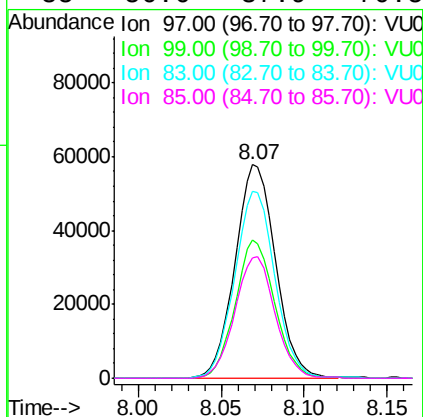
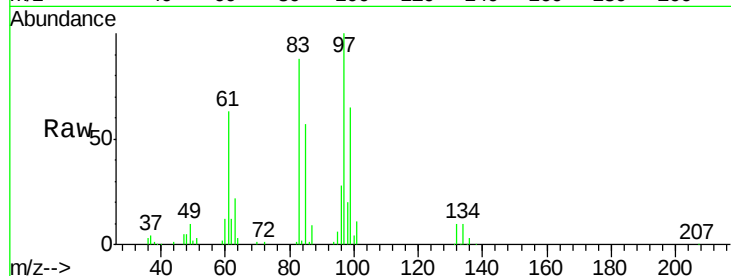




#45
1,1,2-Trichloroethane
Concen: 44.180 ug/L
RT: 8.07 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

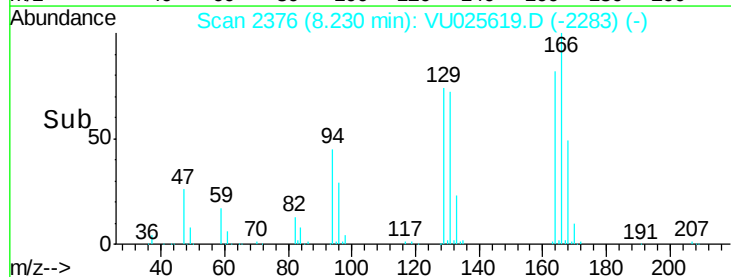
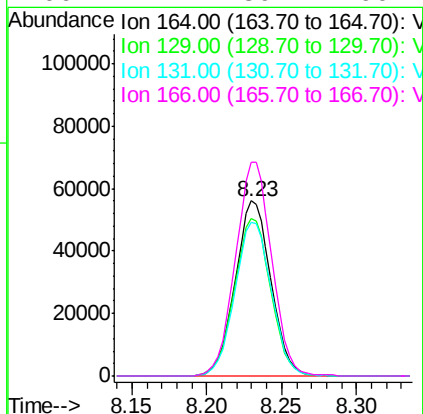
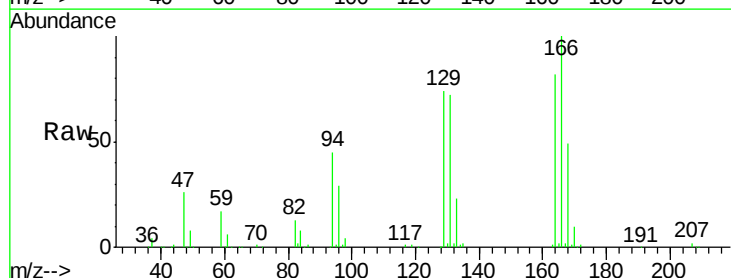
Instrument :
MSVOA_U
ClientSampleId :

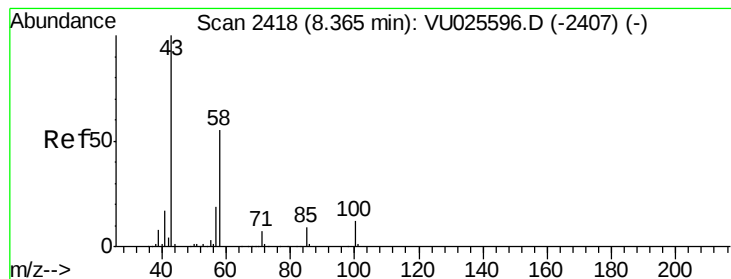
Tot Ion:	97	Resp:	98307
Ion	Ratio	Lower	Upper
97	100		
99	65.0	44.3	82.3
83	87.7	59.8	111.1
85	56.6	37.9	70.5



#46
Tetrachloroethene
Concen: 47.639 ug/L
RT: 8.23 min Scan# 2376
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

Tgt Ion:	164	Resp:	93024
Ion	Ratio	Lower	Upper
164	100		
129	90.3	65.1	120.9
131	88.0	62.8	116.6
166	122.2	89.7	166.7





#48

2-Hexanone

Concen: 92.773 ug/L

RT: 8.36 min Scan# 2418

Delta R.T. 0.00 min

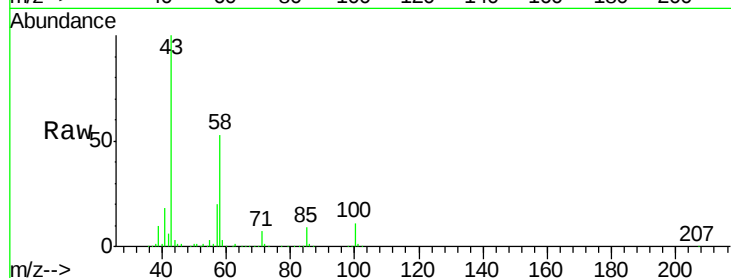
Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampled :



Tot Ion: 43 Resp: 238812

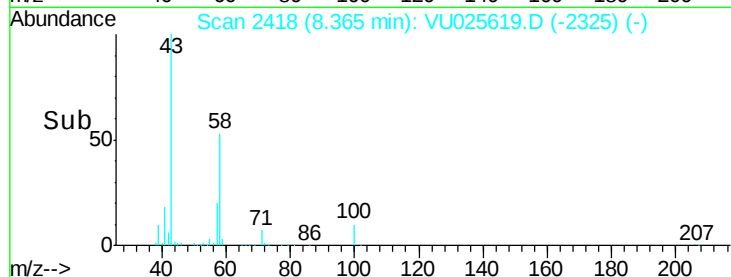
Ion Ratio Lower Upper

43 100

58 52.6 42.9 64.3

57 19.4 15.4 23.2

100 11.8 9.6 14.4

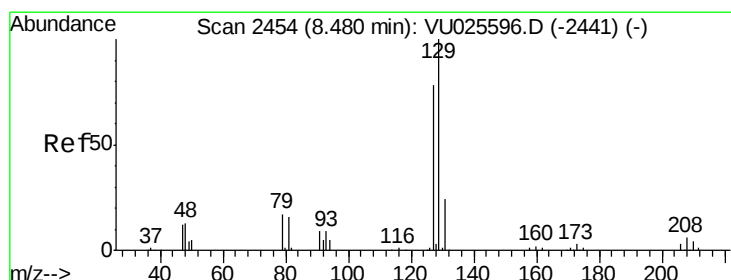
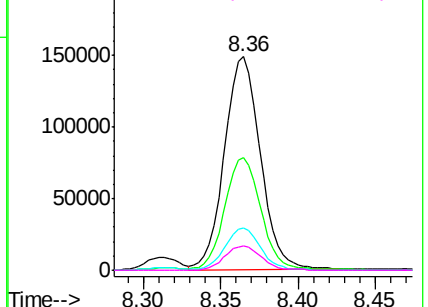


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



#49

Dibromochloromethane

Concen: 46.493 ug/L

RT: 8.48 min Scan# 2454

Delta R.T. 0.00 min

Lab File: VU025619.D

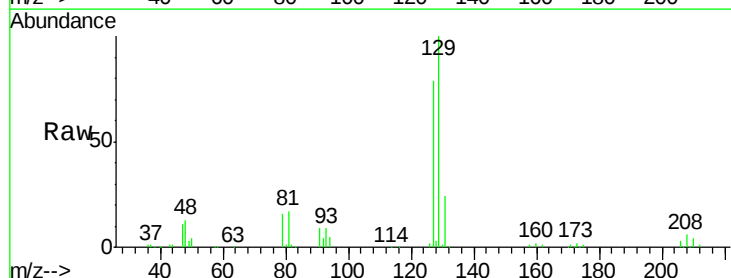
Acq: 24 Jul 2018 10:10

Tgt Ion: 129 Resp: 121355

Ion Ratio Lower Upper

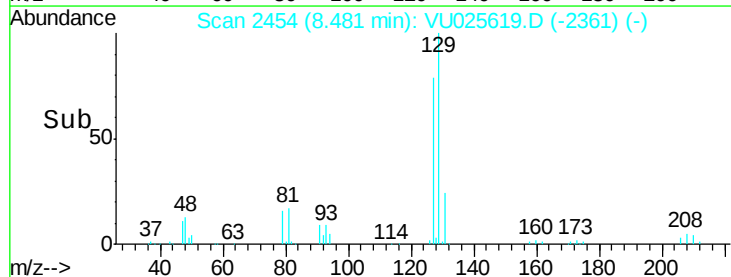
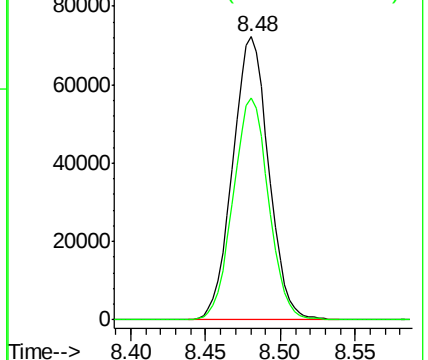
129 100

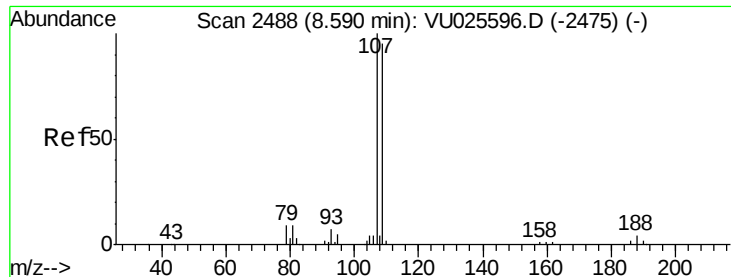
127 78.6 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

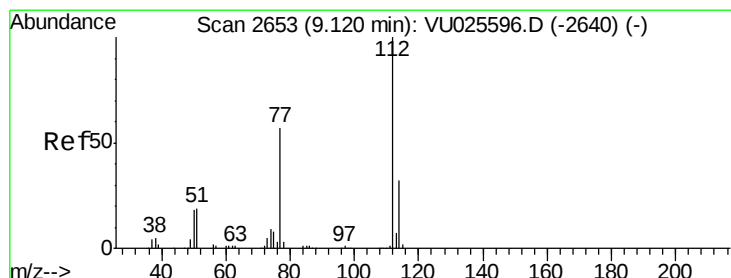
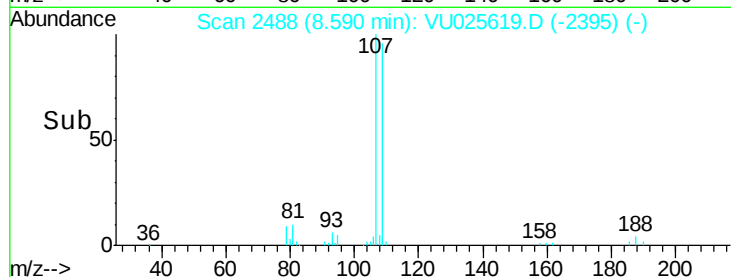
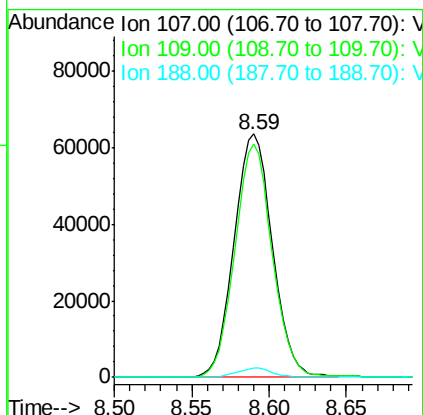
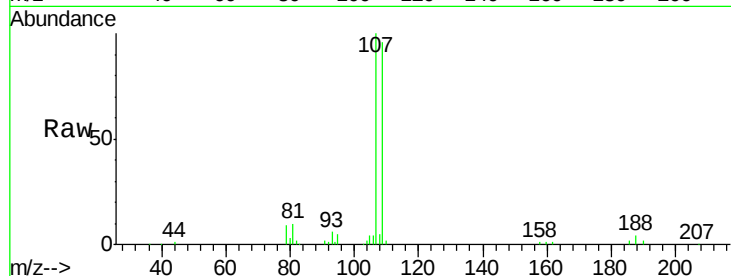




#50
 1,2-Dibromoethane
 Concen: 45.715 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

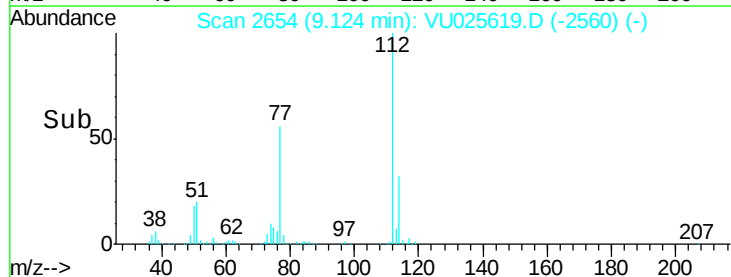
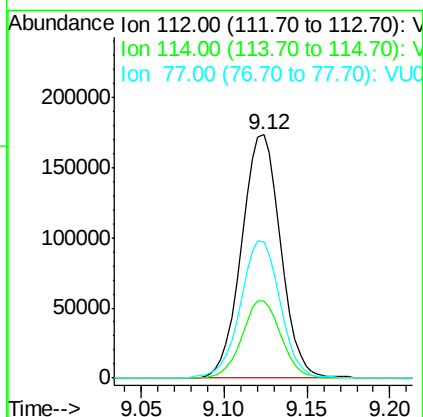
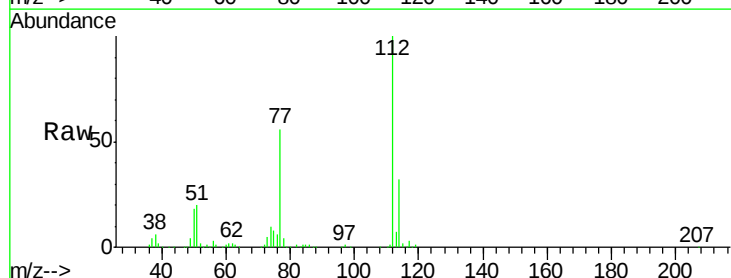
Instrument :
 MSVOA_U
 ClientSampleId :

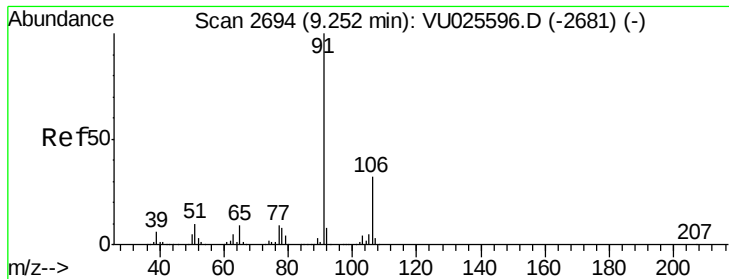
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.0	66.6	123.8
188	3.8	3.2	4.8



#51
 Chlorobenzene
 Concen: 46.115 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.9
77	55.8	45.8	68.8





#52

Ethylbenzene

Concen: 47.061 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

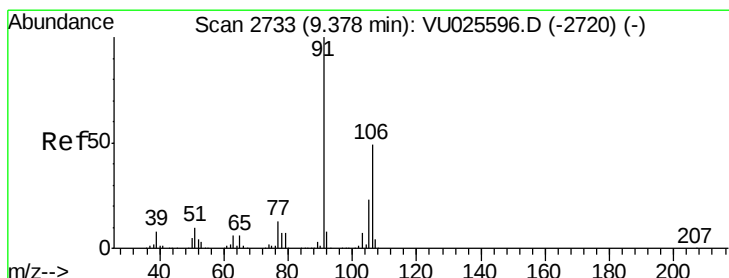
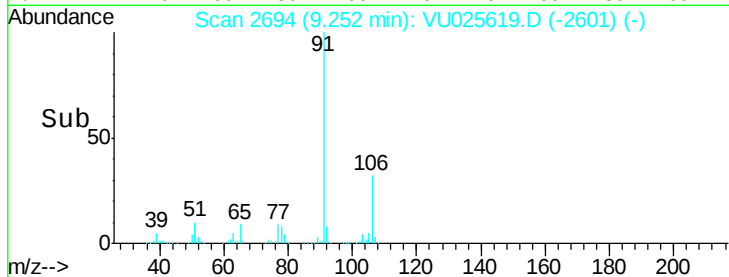
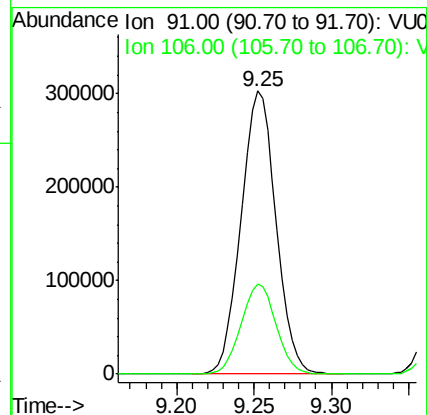
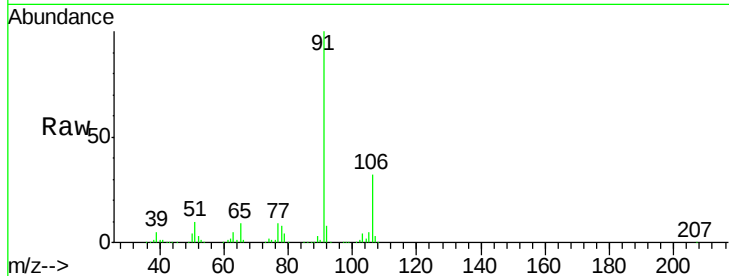
ClientSampleId :

Tot Ion: 91 Resp: 475522

Ion Ratio Lower Upper

91 100

106 31.7 22.3 41.5



#53

m,p-Xylene

Concen: 47.195 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025619.D

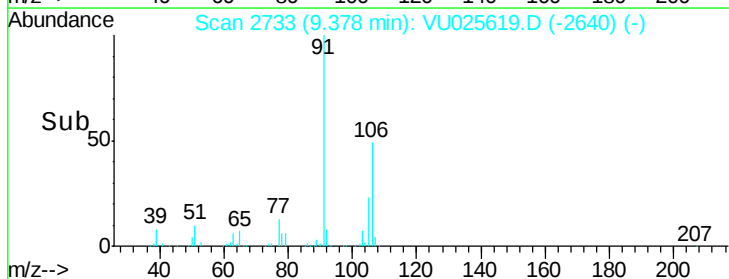
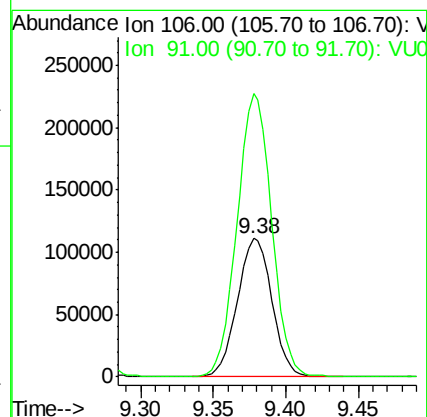
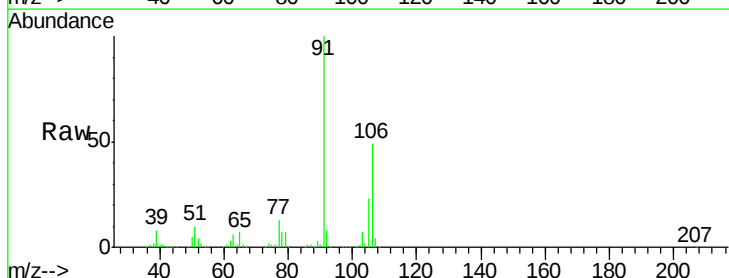
Acq: 24 Jul 2018 10:10

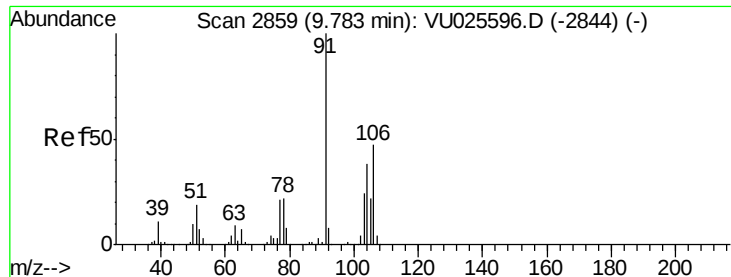
Tgt Ion: 106 Resp: 182660

Ion Ratio Lower Upper

106 100

91 204.8 141.7 263.3

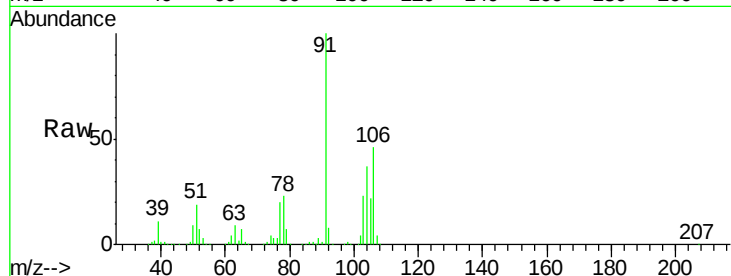




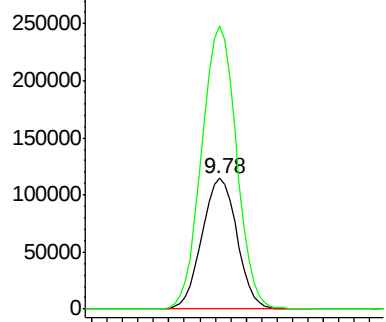
#54
o-xylene
Concen: 46.045 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

Instrument :
MSVOA_U
ClientSampled :

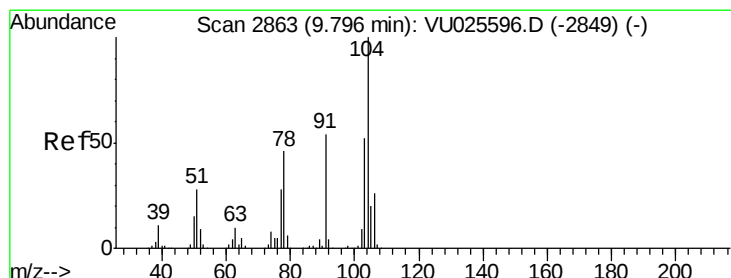
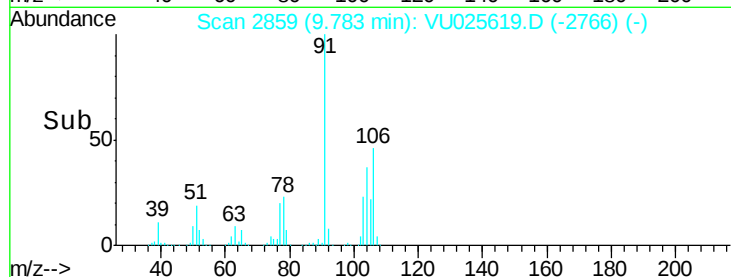
Tot Ion:106 Resp: 180828
Ion Ratio Lower Upper
106 100
91 216.9 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

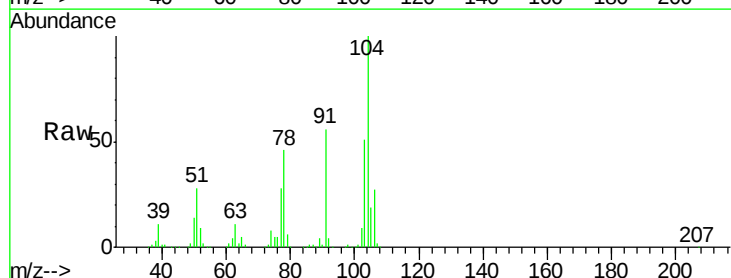


Time--> 9.70 9.75 9.80 9.85

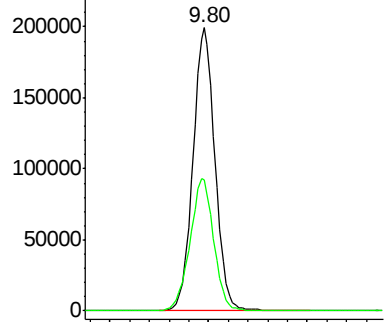


#55
Styrene
Concen: 48.764 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025619.D
Acq: 24 Jul 2018 10:10

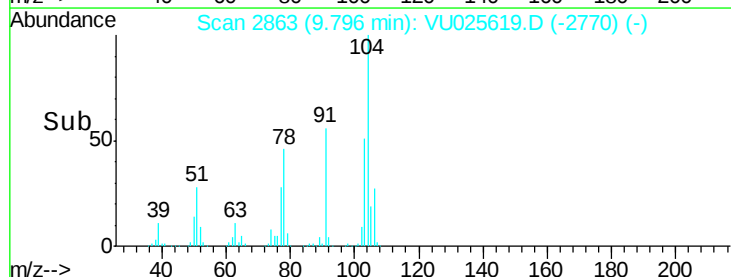
Tgt Ion:104 Resp: 311903
Ion Ratio Lower Upper
104 100
78 46.2 31.8 59.0

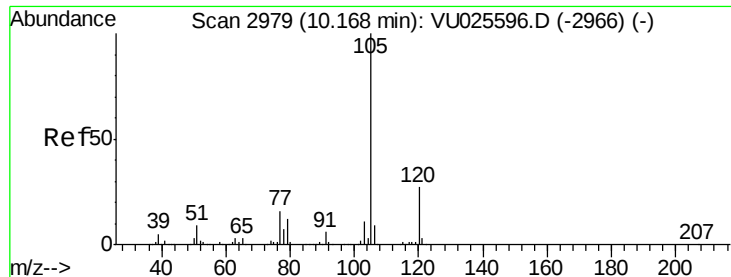


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0



Time--> 9.70 9.80 9.90





#56

Isopropylbenzene

Concen: 47.588 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

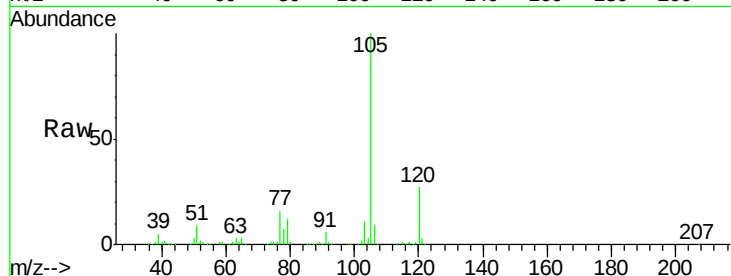
Tot Ion:105 Resp: 482299

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

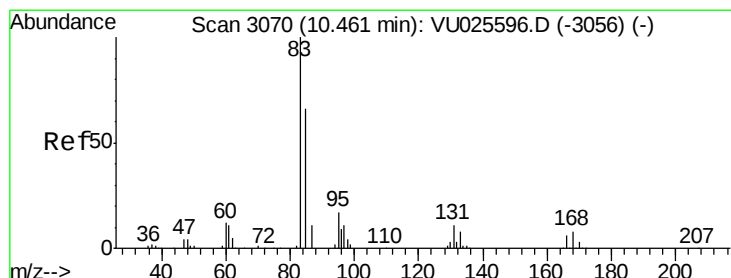
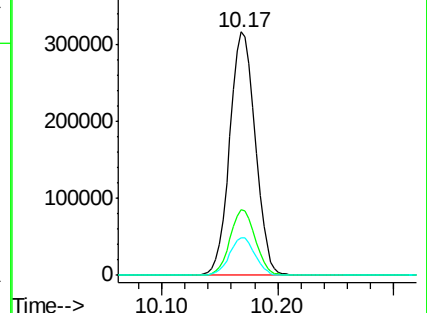
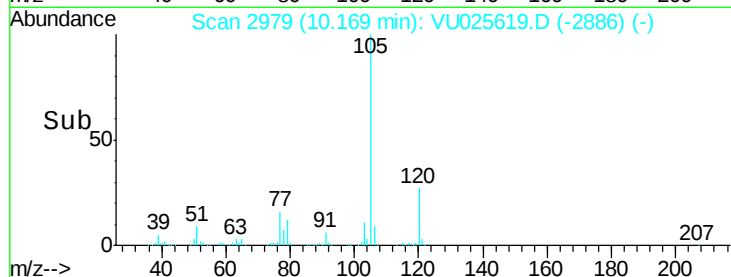
77 15.7 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 45.699 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

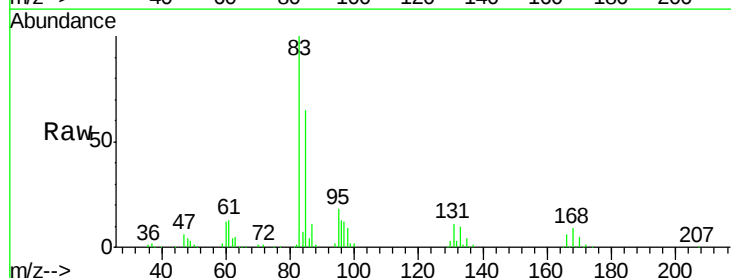
Tgt Ion: 83 Resp: 164021

Ion Ratio Lower Upper

83 100

85 64.9 45.1 83.7

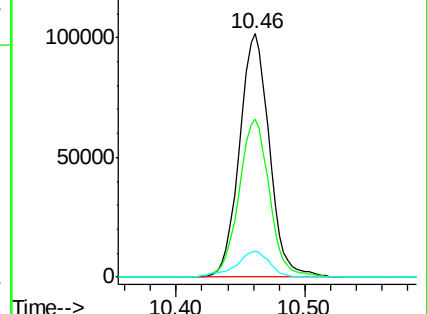
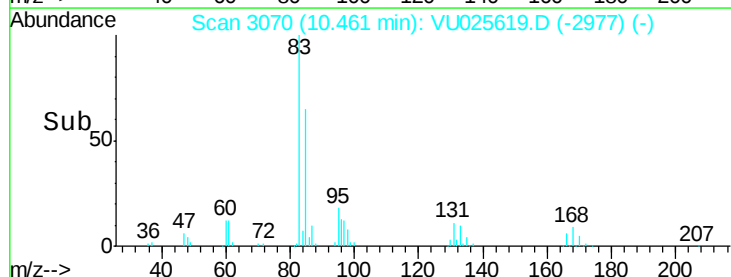
131 10.5 8.7 13.1

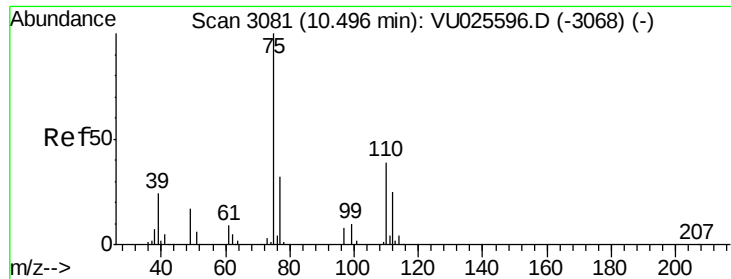


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

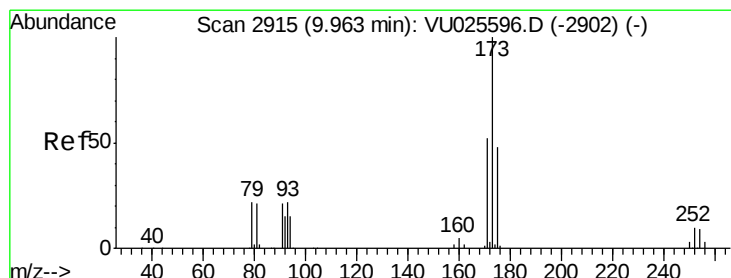
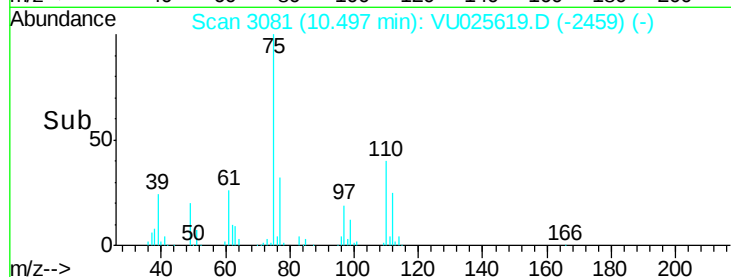
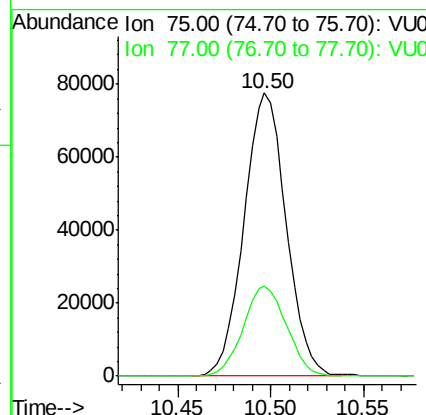
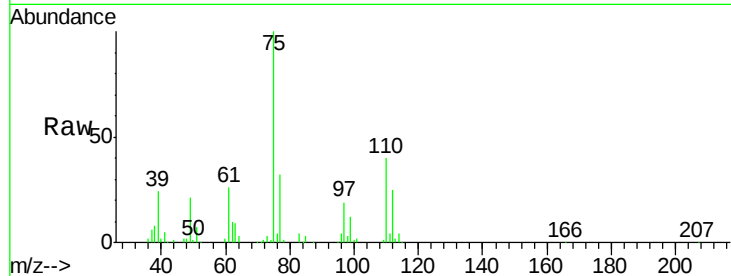




#59
 1,2,3-Trichloropropane
 Concen: 44.892 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

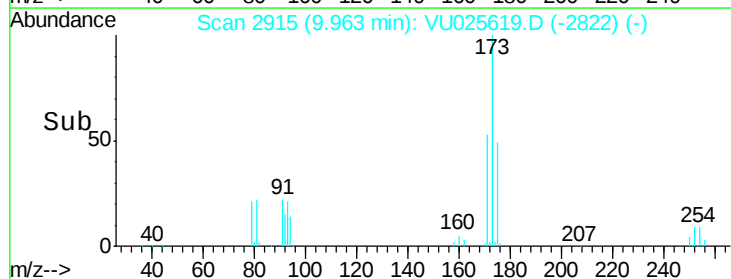
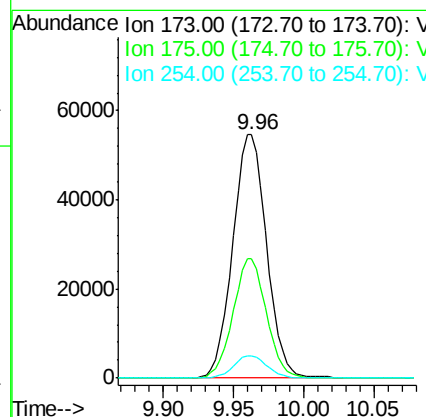
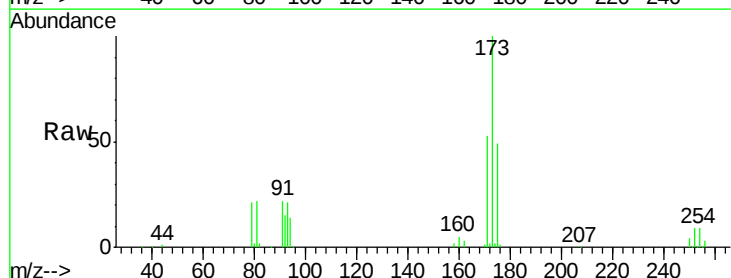
Instrument :
 MSVOA_U
 ClientSampled :

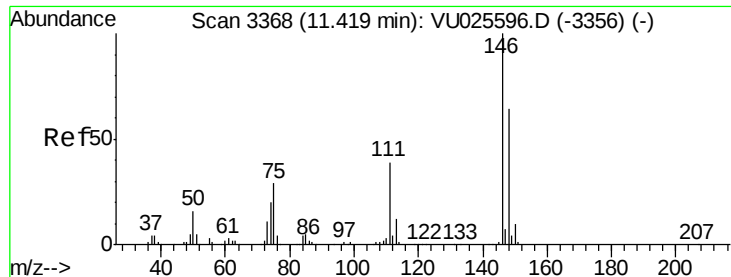
Tot Ion: 75 Resp: 122320
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.8 38.8



#61
 Bromoform
 Concen: 43.993 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

Tgt Ion: 173 Resp: 91796
 Ion Ratio Lower Upper
 173 100
 175 48.2 39.8 59.8
 254 9.0 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 46.792 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

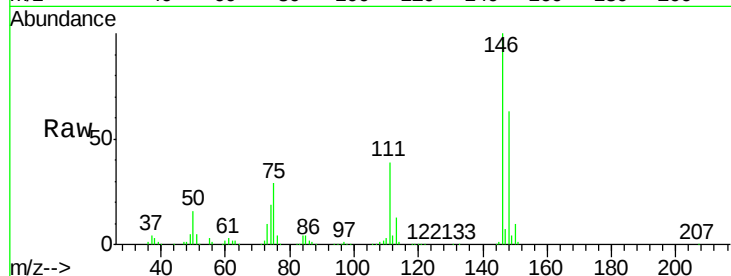
Tot Ion:146 Resp: 238769

Ion Ratio Lower Upper

146 100

111 38.9 27.7 51.5

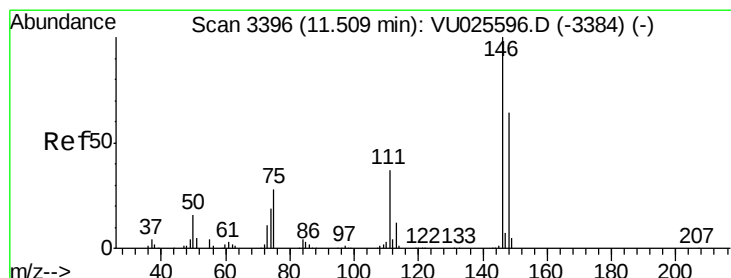
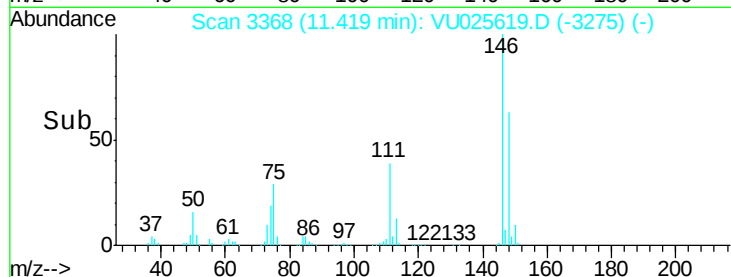
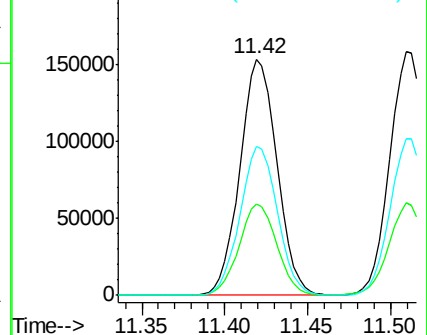
148 62.8 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.994 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

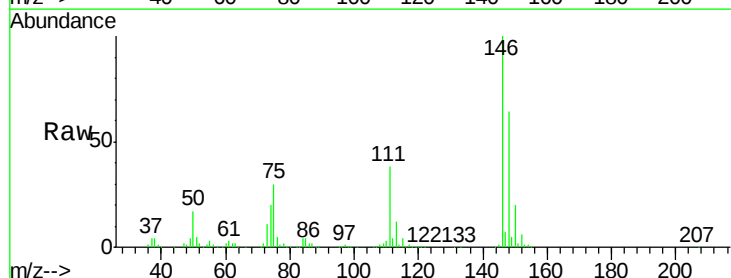
Tgt Ion:146 Resp: 244779

Ion Ratio Lower Upper

146 100

111 37.8 26.9 49.9

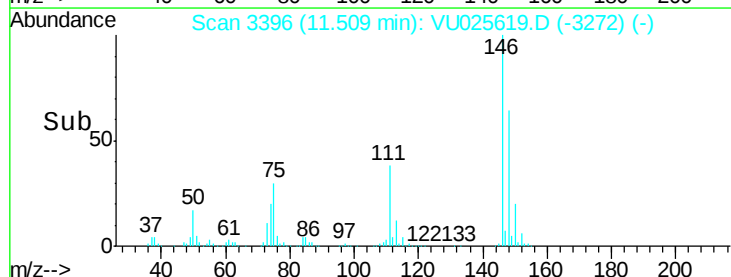
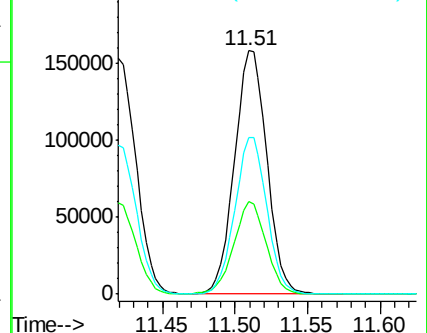
148 64.2 44.6 82.8

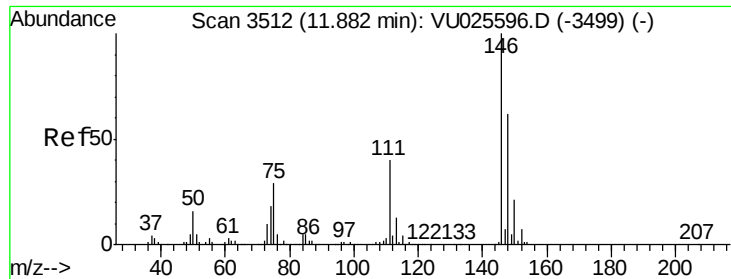


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

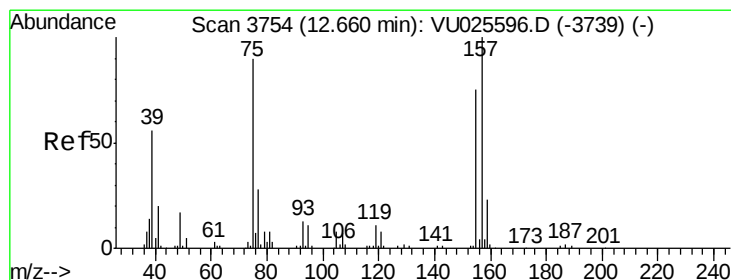
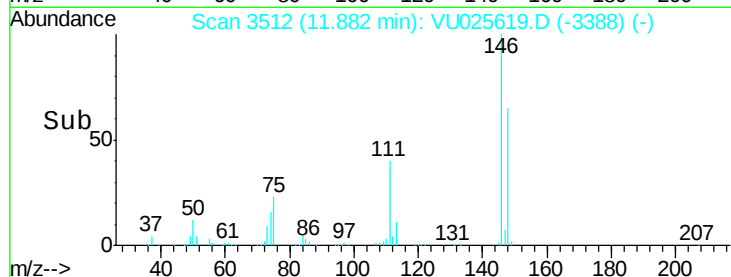
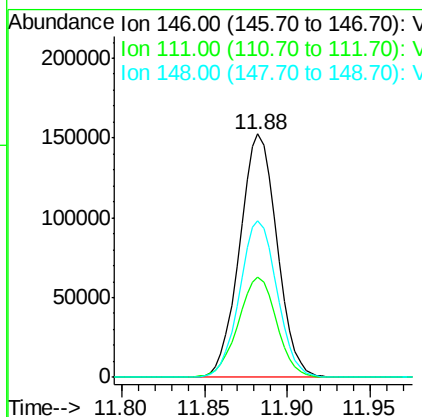
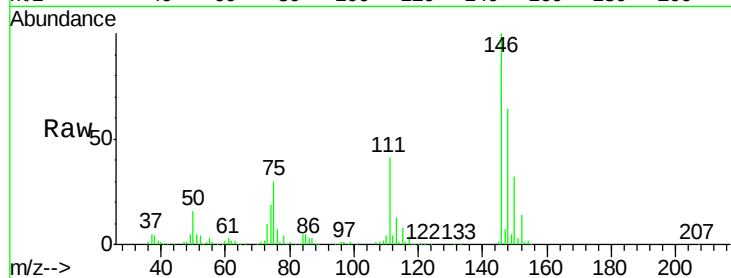




#65
 1,2-Dichlorobenzene
 Concen: 44.854 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

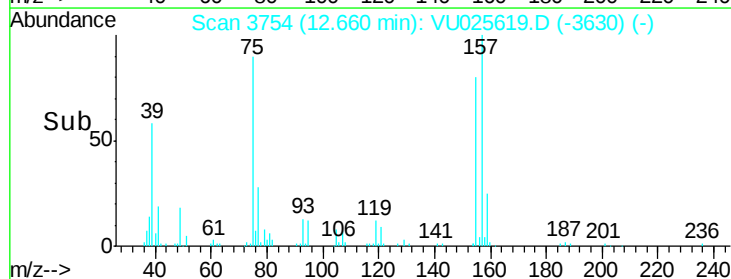
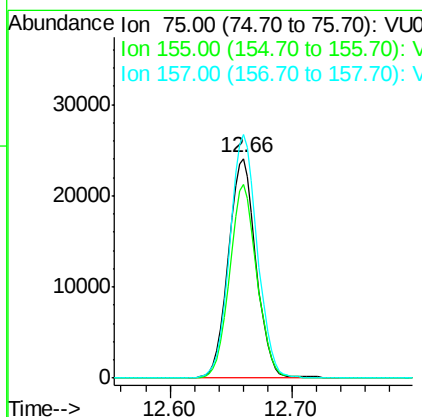
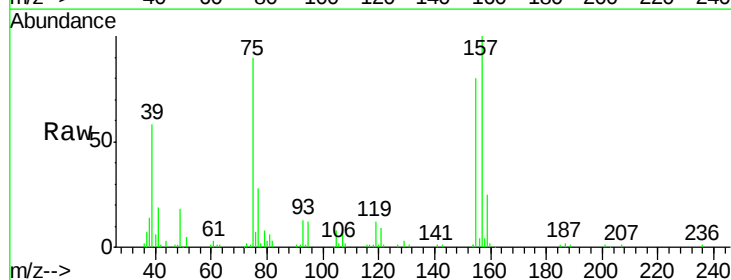
Instrument :
 MSVOA_U
 ClientSampleId :

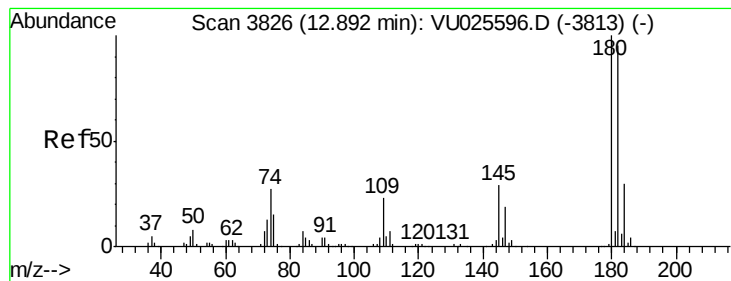
Tot Ion:146 Resp: 239782
 Ion Ratio Lower Upper
 146 100
 111 41.0 32.4 48.6
 148 64.4 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.386 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025619.D
 Acq: 24 Jul 2018 10:10

Tgt Ion: 75 Resp: 38158
 Ion Ratio Lower Upper
 75 100
 155 88.4 66.3 99.5
 157 110.9 91.5 137.3





#67

1,3,5-Trichlorobenzene

Concen: 49.480 ug/L

RT: 12.89 min Scan# 3826

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:180 Resp: 194890

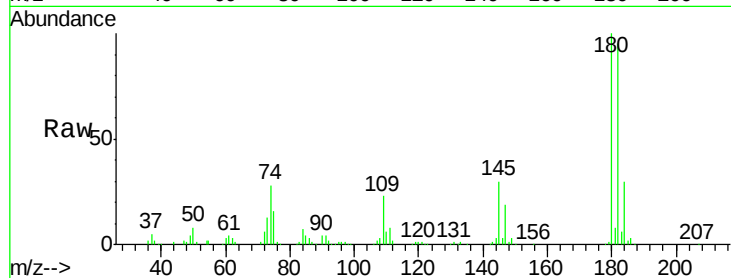
Ion Ratio Lower Upper

180 100

182 95.0 77.3 115.9

184 30.3 24.6 36.8

145 28.9 23.0 34.6

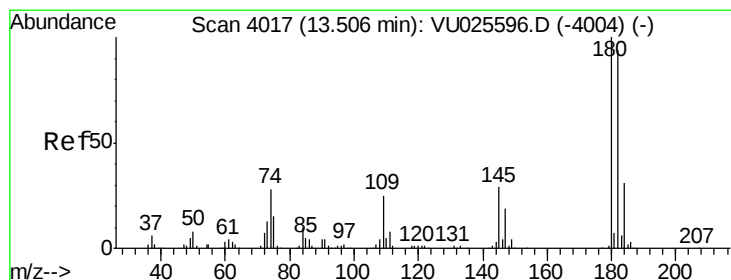
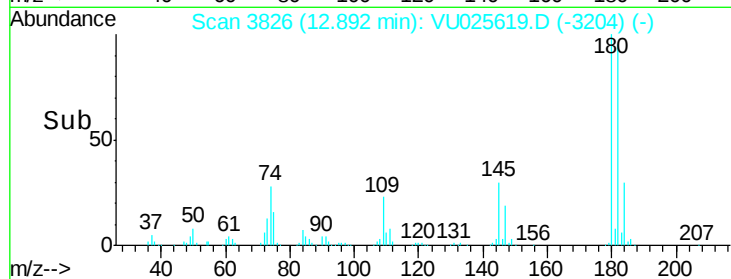
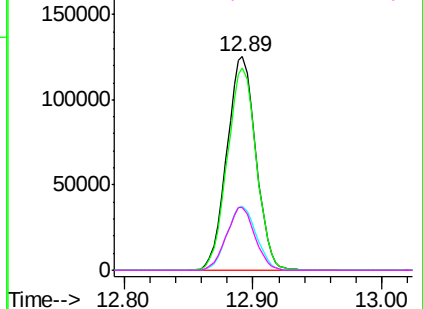


Abundance Ion 180.00 (179.70 to 180.70): V

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: 50.647 ug/L

RT: 13.51 min Scan# 4017

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

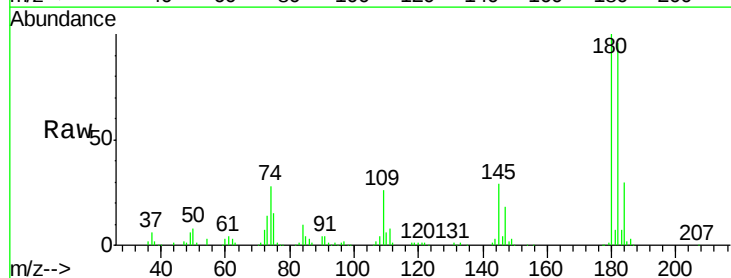
Tgt Ion:180 Resp: 167658

Ion Ratio Lower Upper

180 100

182 95.9 78.1 117.1

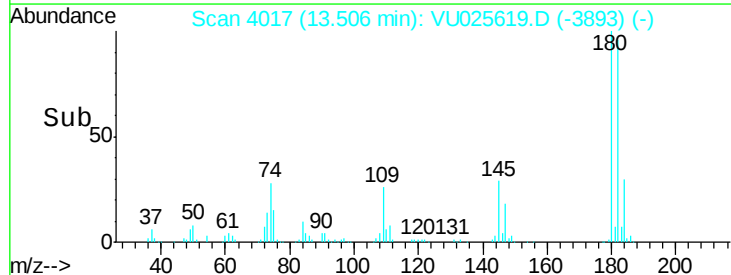
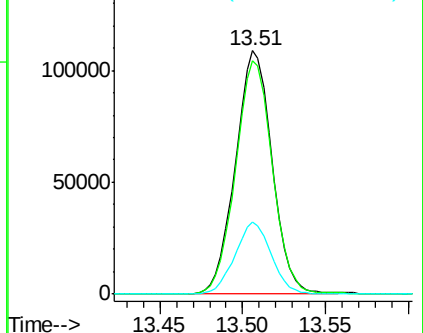
145 29.2 23.4 35.2

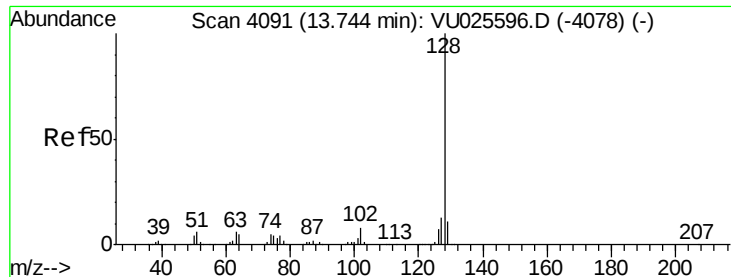


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 48.101 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

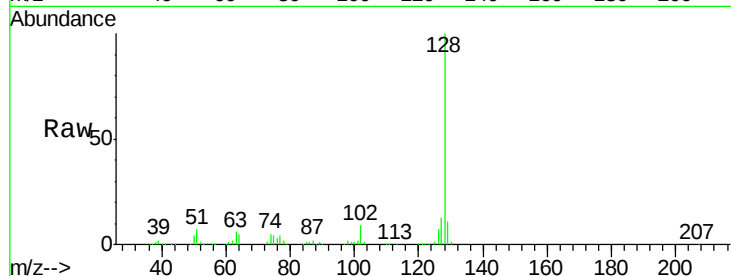
Tot Ion:128 Resp: 478841

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

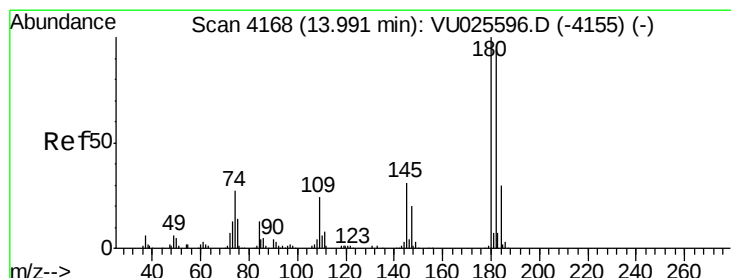
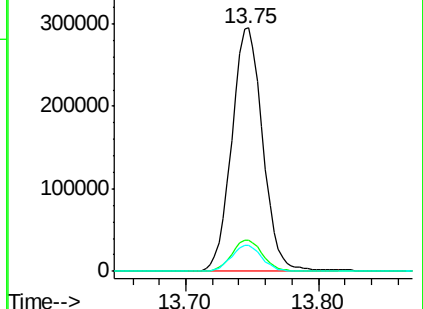
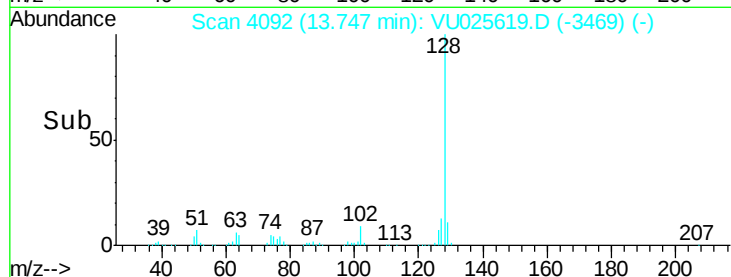
129 10.6 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.536 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025619.D

Acq: 24 Jul 2018 10:10

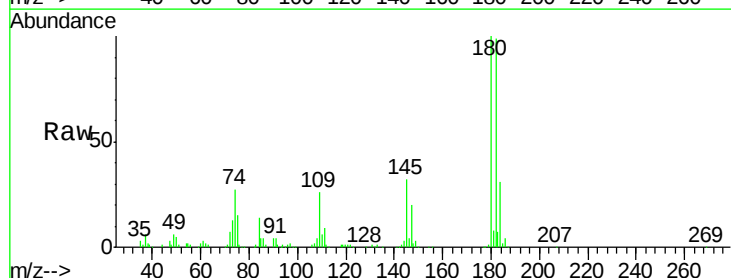
Tgt Ion:180 Resp: 169846

Ion Ratio Lower Upper

180 100

182 97.0 76.6 114.8

145 31.6 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

