

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
 Data File : VU025529.D
 Acq On : 20 Jul 2018 09:42
 Operator : MD/SY
 Sample : VSTD01054
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 00:56:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 00:55:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	320579	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	293851	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	141086	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	18044	11.49	ug/L	0.00
7) Chloroethane-d5	1.69	69	15379	11.53	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	38145	11.12	ug/L	0.00
21) 2-Butanone-d5	4.18	46	28535	18.26	ug/L	0.00
24) Chloroform-d	4.65	84	40502	10.24	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	27526	10.32	ug/L	0.00
32) Benzene-d6	5.35	84	76872	10.72	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	25088	10.65	ug/L	0.00
41) Toluene-d8	7.57	98	69538	9.98	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	11869	9.66	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	19114	16.19	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	33100	9.52	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	28837	10.17	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	33841	12.284	ug/L 99
3) Chloromethane	1.33	50	24362	10.490	ug/L 96
5) Vinyl chloride	1.41	62	26158	11.012	ug/L 100
6) Bromomethane	1.63	94	7546	6.314	ug/L 90
8) Chloroethane	1.71	64	15843	11.125	ug/L 100
9) Trichlorofluoromethane	1.89	101	38337	11.022	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	20751	10.681	ug/L 98
12) 1,1-Dichloroethene	2.29	96	18806	10.700	ug/L 95
13) Acetone	2.32	43	37198	25.233	ug/L 98
14) Carbon disulfide	2.48	76	60372	10.605	ug/L 99
15) Methyl Acetate	2.62	43	23818	9.394	ug/L 99
16) Methylene chloride	2.71	84	24099	10.640	ug/L 93
17) trans-1,2-Dichloroethene	2.99	96	22122	10.774	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	70282	9.836	ug/L 98
19) 1,1-Dichloroethane	3.45	63	42316	10.392	ug/L 97
20) cis-1,2-Dichloroethene	4.23	96	24343	9.787	ug/L 87
22) 2-Butanone	4.27	43	40385	21.099	ug/L 94
23) Bromochloromethane	4.55	128	12707	10.159	ug/L 99
25) Chloroform	4.68	83	44075	10.315	ug/L 95
27) 1,2-Dichloroethane	5.41	62	36575	10.309	ug/L 97
29) Cyclohexane	5.00	56	34193	10.022	ug/L 98
30) 1,1,1-Trichloroethane	4.92	97	40213	10.404	ug/L 98
31) Carbon tetrachloride	5.14	117	35530	10.413	ug/L 98
33) Benzene	5.39	78	88487	10.233	ug/L 100
34) Trichloroethene	6.19	95	23506	10.259	ug/L 97
35) Methylcyclohexane	6.42	83	36994	10.312	ug/L 97
37) 1,2-Dichloropropane	6.44	63	24448	10.304	ug/L 98
38) Bromodichloromethane	6.76	83	32258	10.129	ug/L 88
39) cis-1,3-Dichloropropene	7.27	75	35106	9.537	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	62726	18.463	ug/L 99

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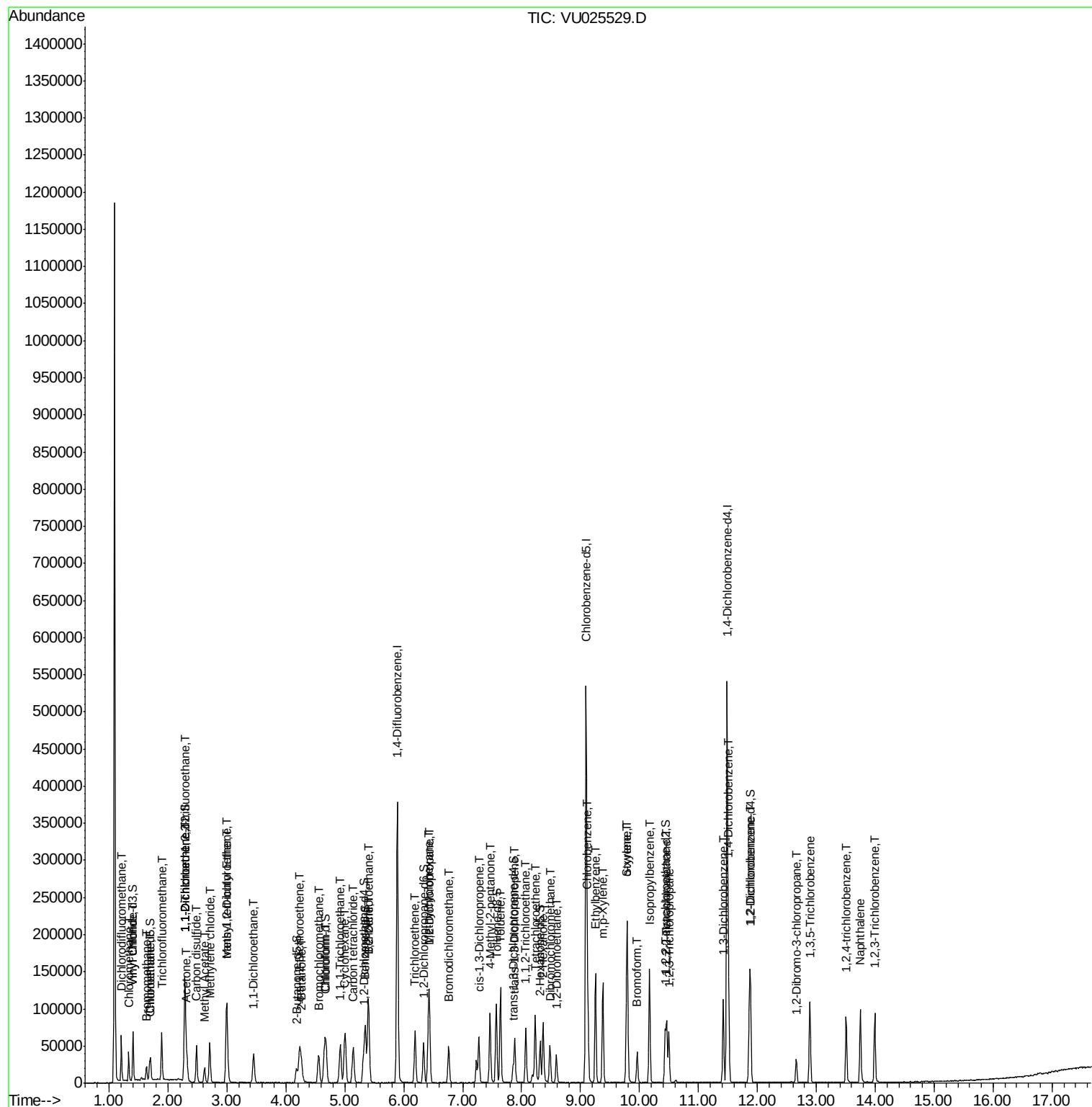
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	93315	10.067	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	33415	9.483	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	23450	10.400	ug/L	97
46) Tetrachloroethene	8.23	164	20262	10.360	ug/L	98
48) 2-Hexanone	8.36	43	52583	19.222	ug/L	98
49) Dibromochloromethane	8.48	129	25632	9.419	ug/L	94
50) 1,2-Dibromoethane	8.59	107	25147	10.150	ug/L	98
51) Chlorobenzene	9.12	112	63112	10.162	ug/L	99
52) Ethylbenzene	9.25	91	100204	9.678	ug/L	99
53) m,p-Xylene	9.38	106	37679	9.467	ug/L	95
54) o-xylene	9.78	106	38536	9.635	ug/L	98
55) Styrene	9.80	104	60625	9.184	ug/L	95
56) Isopropylbenzene	10.17	105	99285	9.551	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	36807	9.542	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	28588	9.216	ug/L	99
61) Bromoform	9.96	173	19434	10.060	ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	46355	9.955	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	46016	9.747	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	49434	10.081	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	7490	8.494	ug/L	94
67) 1,3,5-Trichlorobenzene	12.89	180	34161	9.412	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	27848	8.701	ug/L	100
69) Naphthalene	13.75	128	82302	7.710	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	30258	8.879	ug/L	98

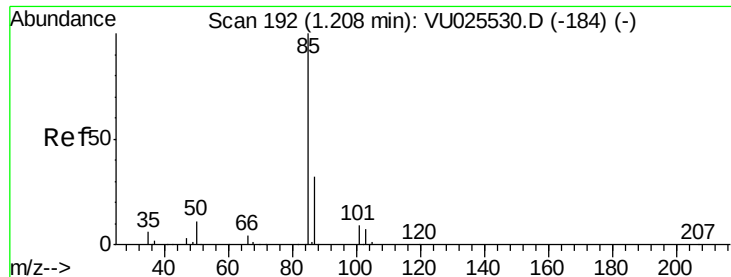
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 12.284 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

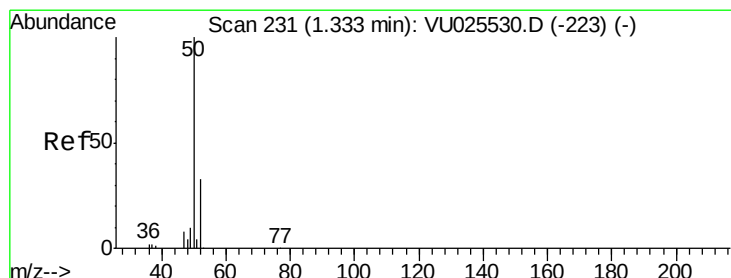
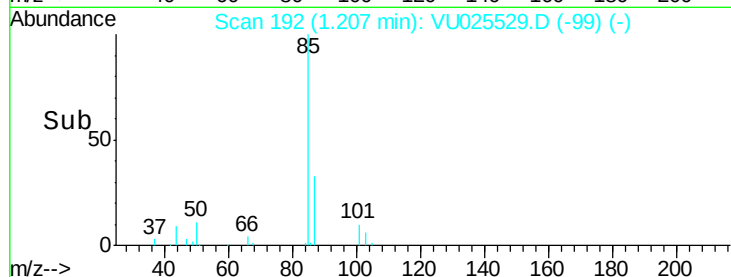
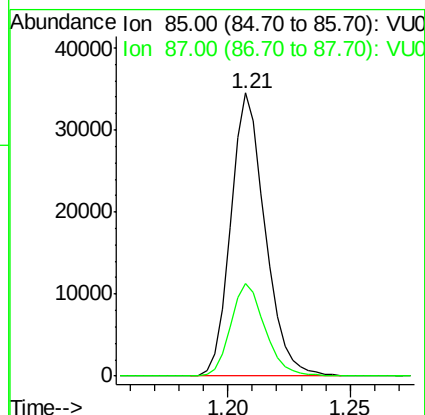
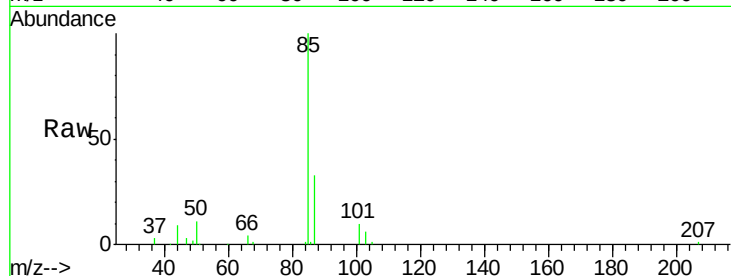
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 33841

Ion Ratio Lower Upper

85 100

87 32.5 25.6 38.4



#3

Chloromethane

Concen: 10.490 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025529.D

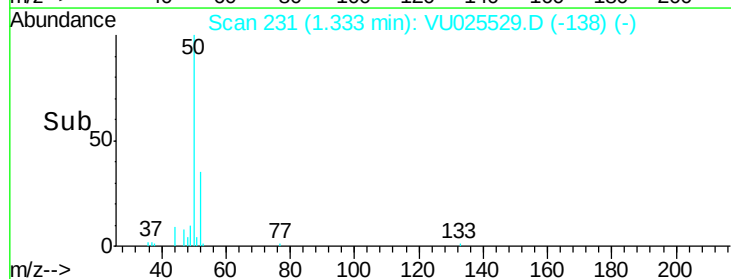
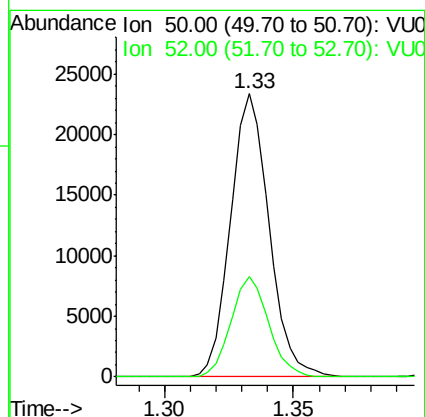
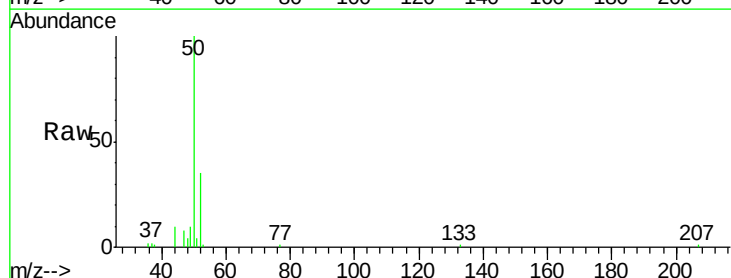
Acq: 20 Jul 2018 09:42

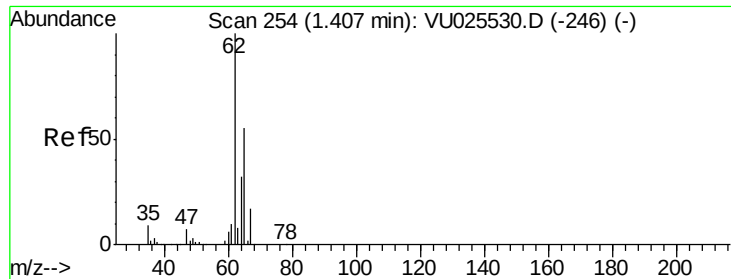
Tgt Ion: 50 Resp: 24362

Ion Ratio Lower Upper

50 100

52 35.2 23.2 43.2





#5

Vinyl chloride

Concen: 11.012 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

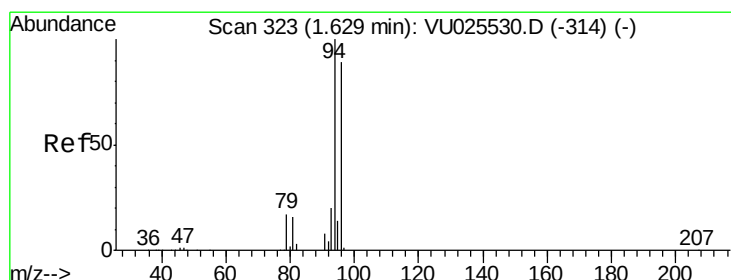
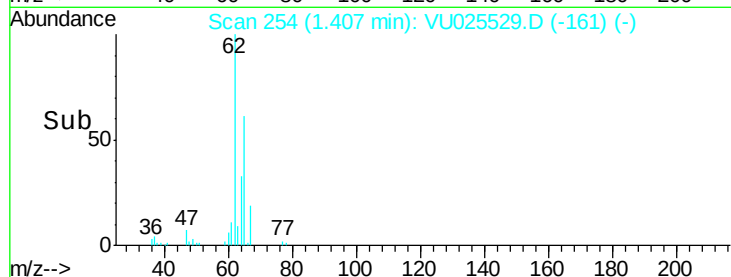
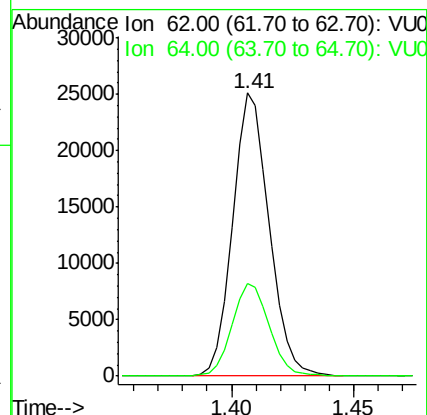
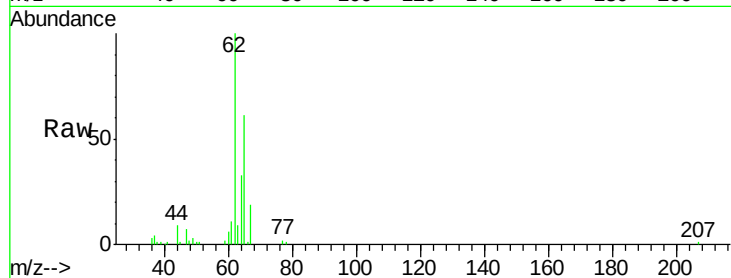
ClientSampleId :

Tot Ion: 62 Resp: 26158

Ion Ratio Lower Upper

62 100

64 32.7 22.7 42.1



#6

Bromomethane

Concen: 6.314 ug/L

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025529.D

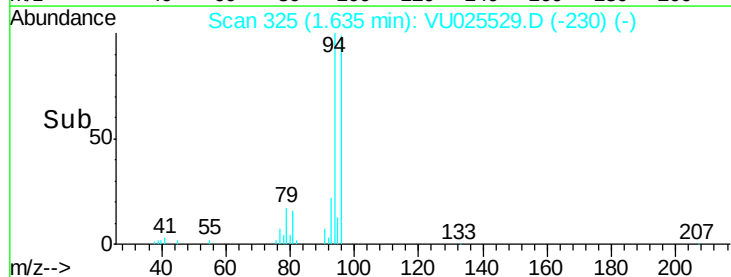
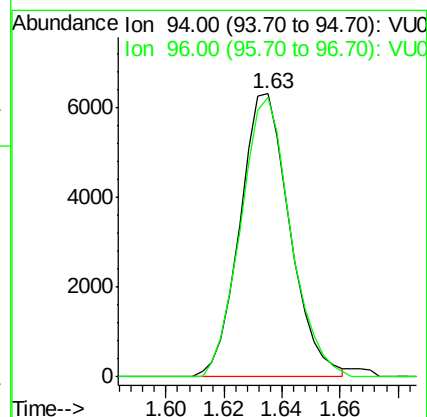
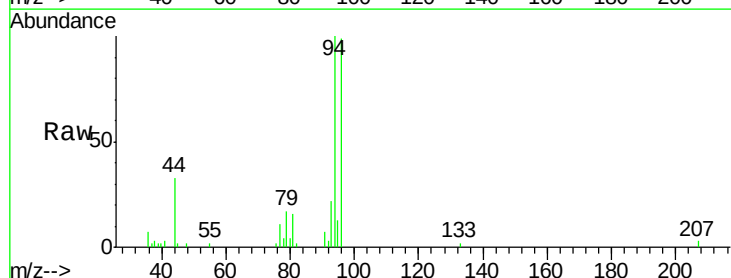
Acq: 20 Jul 2018 09:42

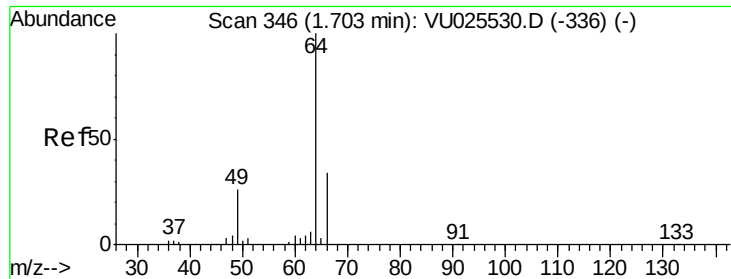
Tgt Ion: 94 Resp: 7546

Ion Ratio Lower Upper

94 100

96 98.6 62.4 115.8

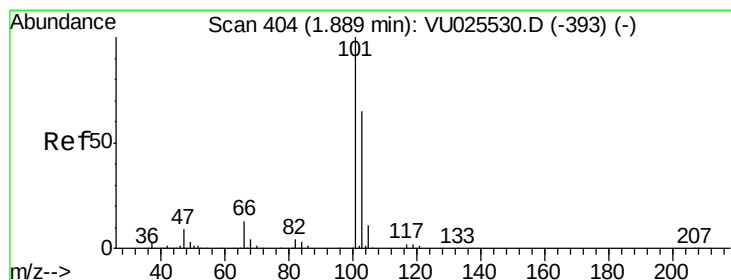
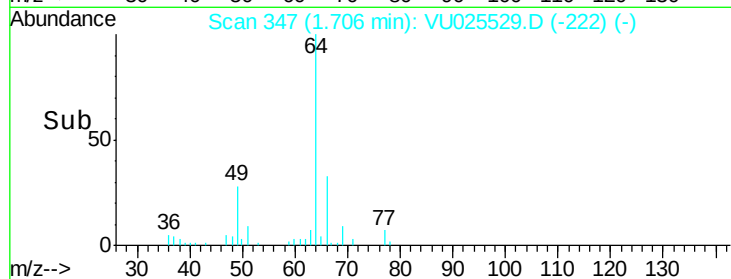
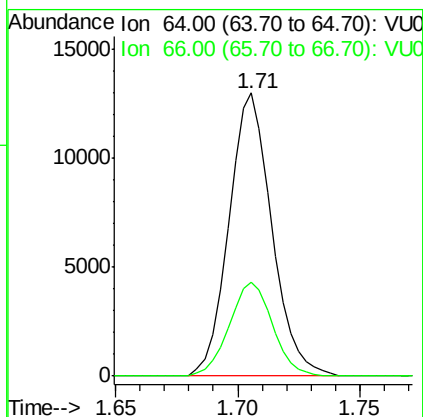
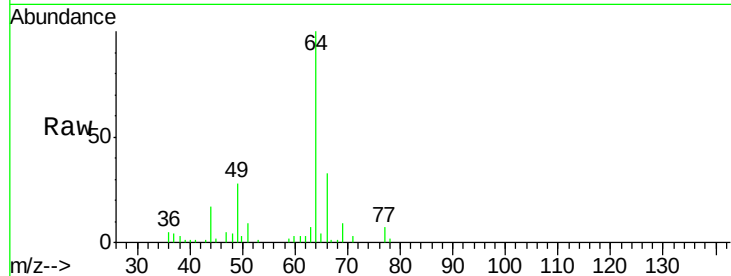




#8
Chloroethane
Concen: 11.125 ug/L
RT: 1.71 min Scan# 347
Delta R.T. 0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

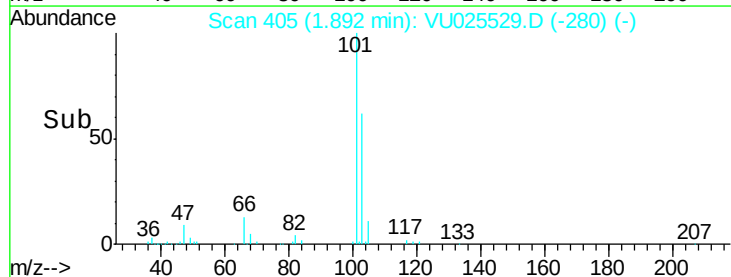
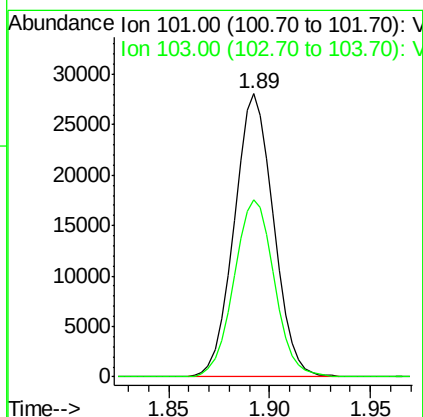
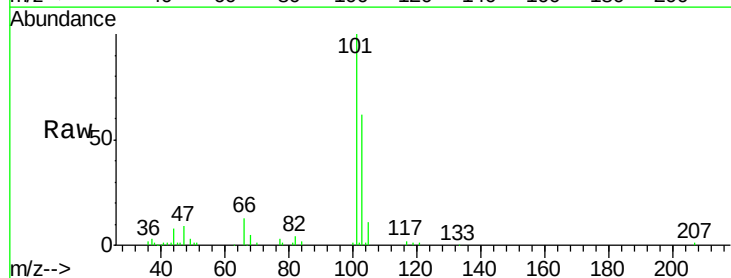
Instrument :
MSVOA_U
ClientSampled :

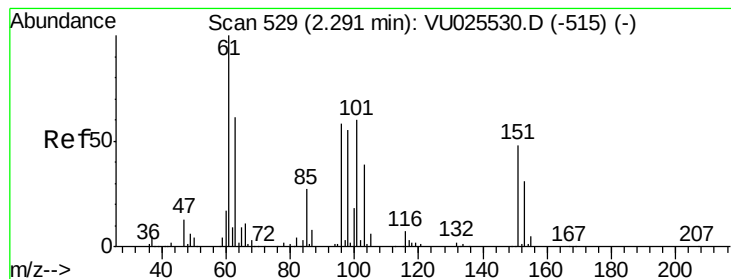
Tot Ion: 64 Resp: 15843
Ion Ratio Lower Upper
64 100
66 33.4 23.5 43.7



#9
Trichlorofluoromethane
Concen: 11.022 ug/L
RT: 1.89 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Tgt Ion:101 Resp: 38337
Ion Ratio Lower Upper
101 100
103 64.1 52.0 78.0





#10

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

Concen: 10.681 ug/L

RT: 2.29 min Scan# 530

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

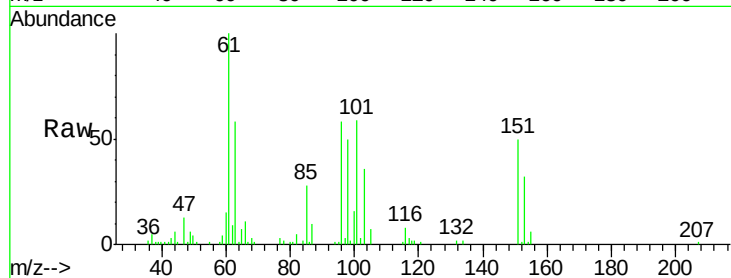
Tot Ion:101 Resp: 20751

Ion Ratio Lower Upper

101 100

85 44.6 35.5 53.3

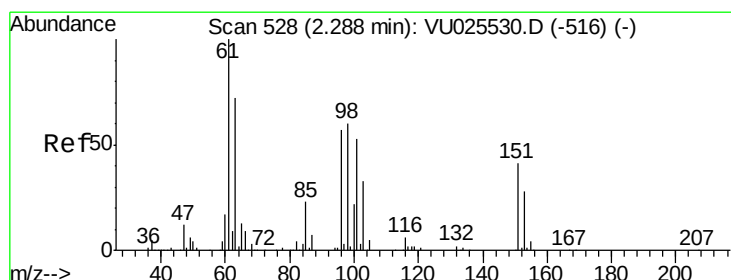
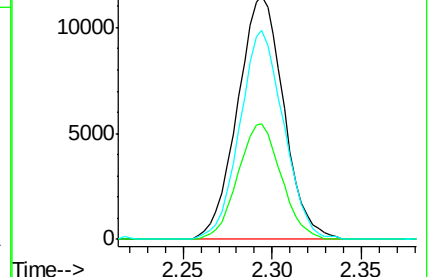
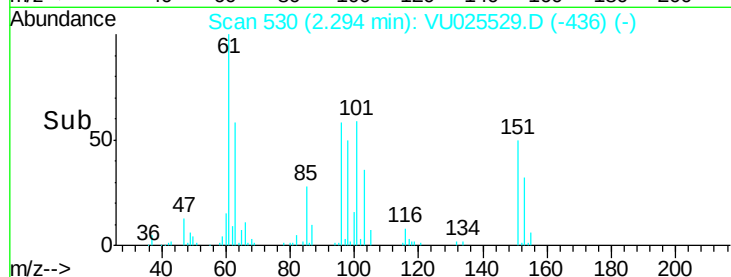
151 81.6 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): VU025529.D (-436) (-)

Ion 85.00 (84.70 to 85.70): VU025529.D (-436) (-)

Ion 151.00 (150.70 to 151.70): VU025529.D (-436) (-)



#12

1,1-Dichloroethene

Concen: 10.700 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

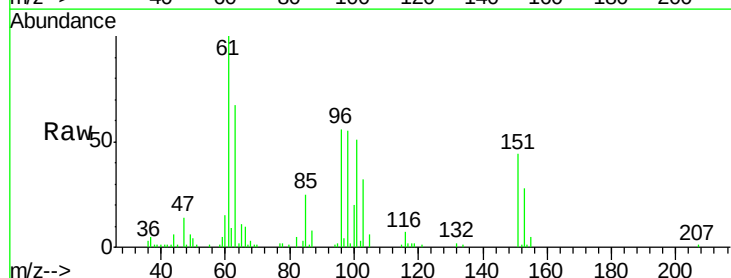
Tgt Ion: 96 Resp: 18806

Ion Ratio Lower Upper

96 100

61 179.7 122.5 227.5

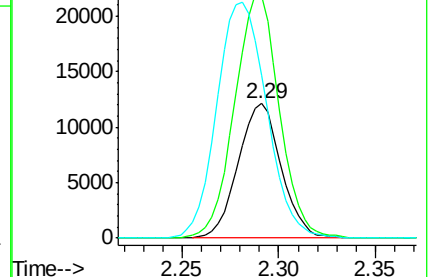
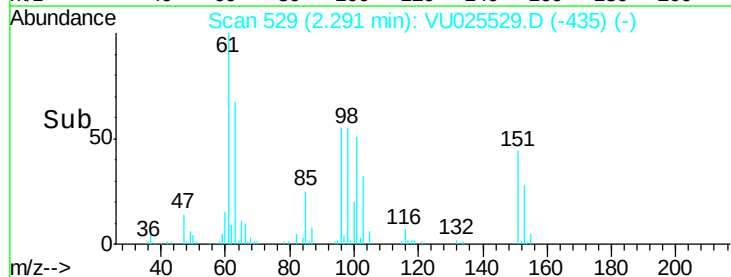
63 120.6 90.9 168.9

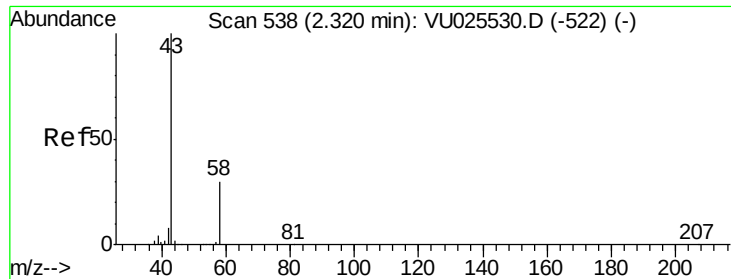


Abundance Ion 96.00 (95.70 to 96.70): VU025529.D (-435) (-)

Ion 61.00 (60.70 to 61.70): VU025529.D (-435) (-)

Ion 63.00 (62.70 to 63.70): VU025529.D (-435) (-)





#13

Acetone

Concen: 25.233 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

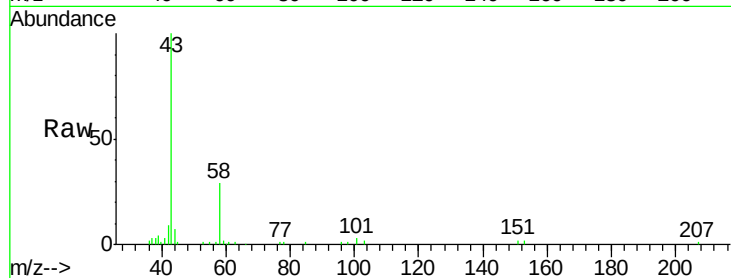
ClientSampleId :

Tot Ion: 43 Resp: 37198

Ion Ratio Lower Upper

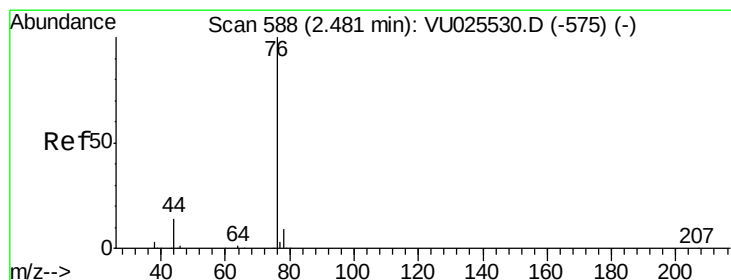
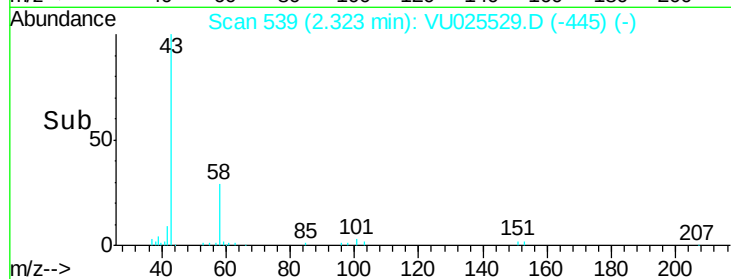
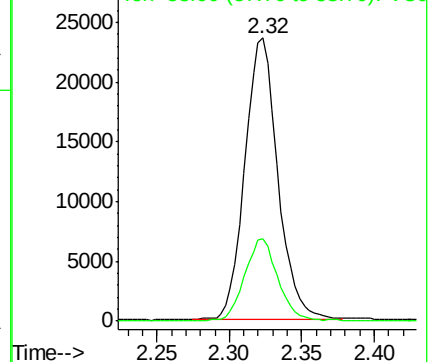
43 100

58 29.5 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 10.605 ug/L

RT: 2.48 min Scan# 589

Delta R.T. 0.00 min

Lab File: VU025529.D

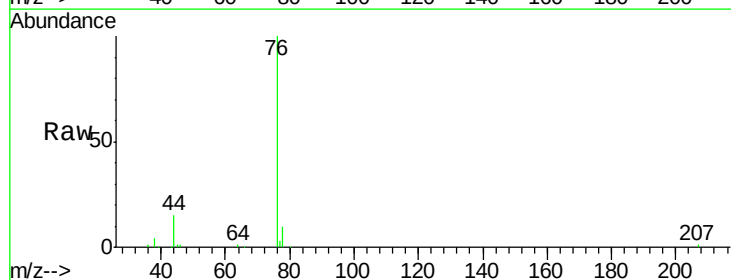
Acq: 20 Jul 2018 09:42

Tgt Ion: 76 Resp: 60372

Ion Ratio Lower Upper

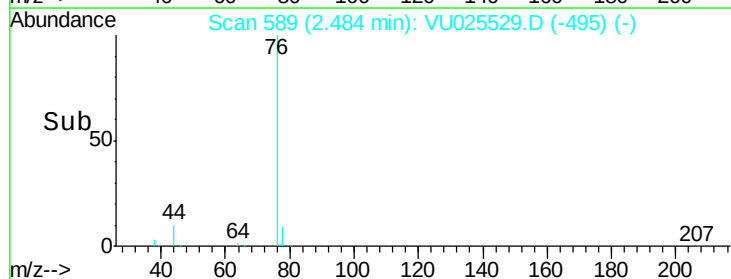
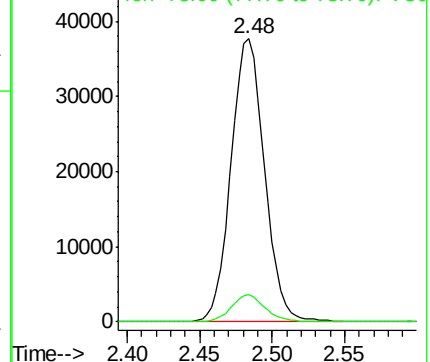
76 100

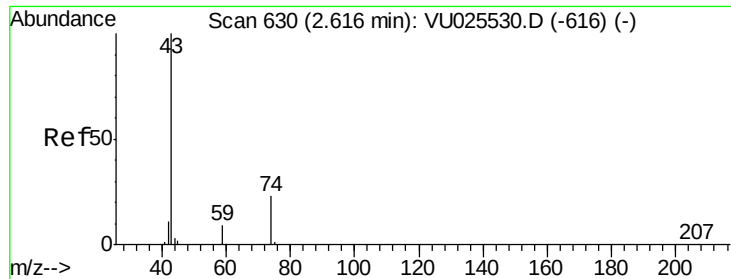
78 9.5 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

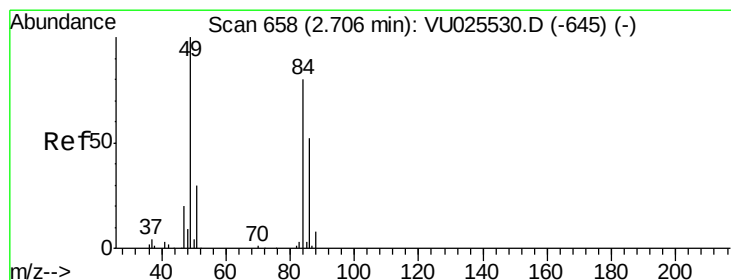
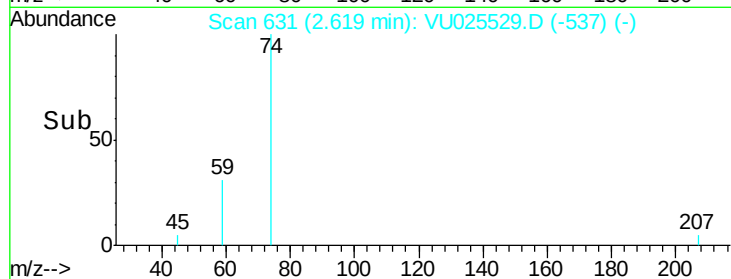
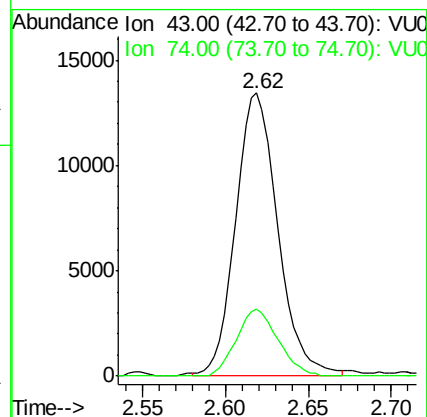
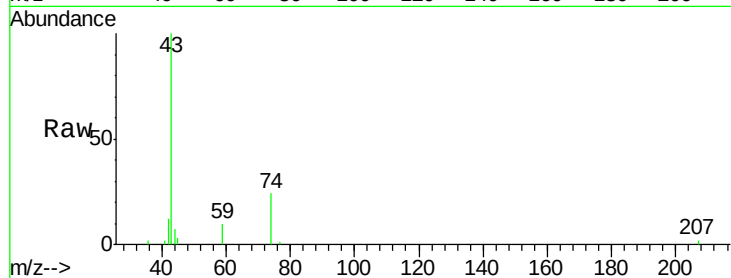




#15
Methvl Acetate
Concen: 9.394 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

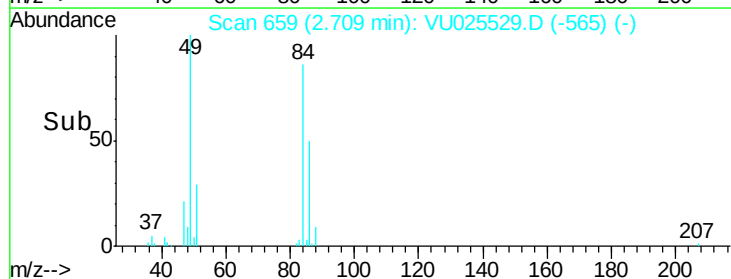
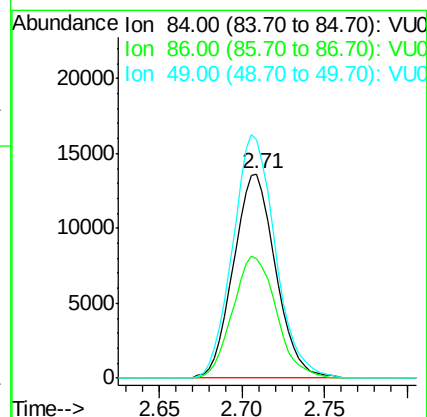
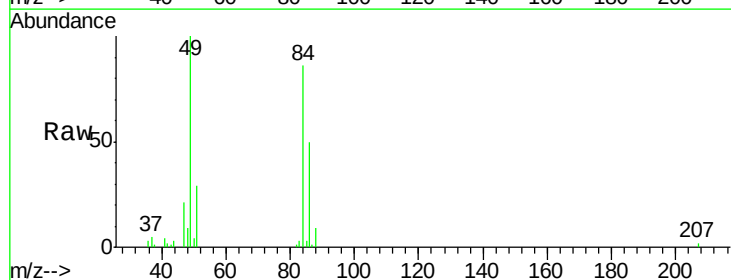
Instrument :
MSVOA_U
ClientSampleId :

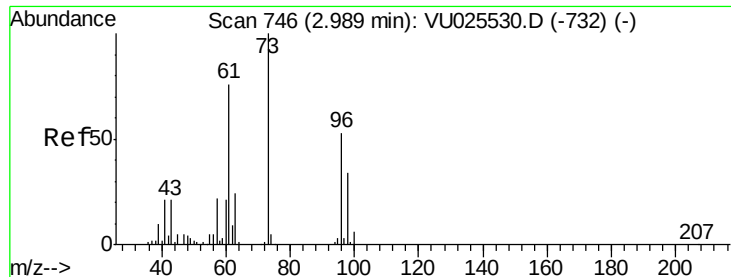
Tot Ion: 43 Resp: 23818
Ion Ratio Lower Upper
43 100
74 23.2 18.3 27.5



#16
Methylene chloride
Concen: 10.640 ug/L
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Tgt Ion: 84 Resp: 24099
Ion Ratio Lower Upper
84 100
86 58.4 45.6 84.6
49 116.4 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 10.774 ug/L

RT: 2.99 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

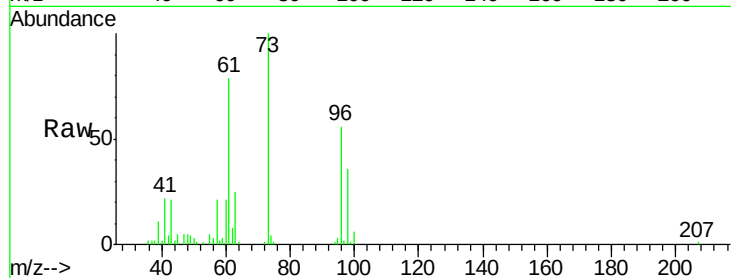
Tot Ion: 96 Resp: 22122

Ion Ratio Lower Upper

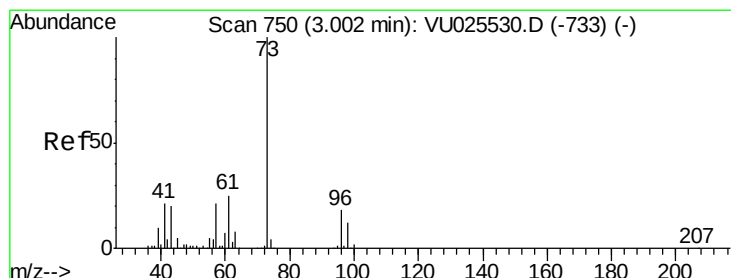
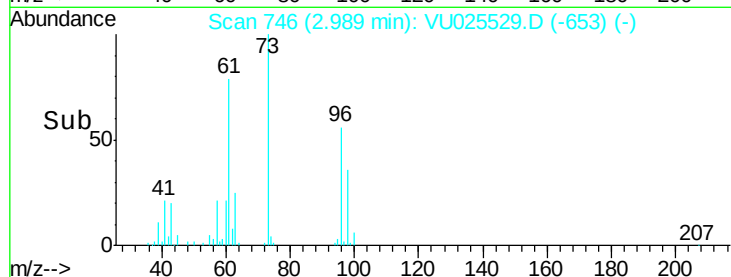
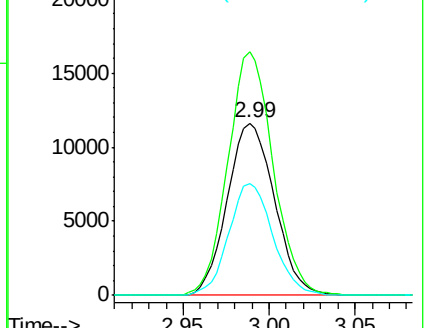
96 100

61 141.5 100.0 185.8

98 64.8 44.7 83.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 9.836 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

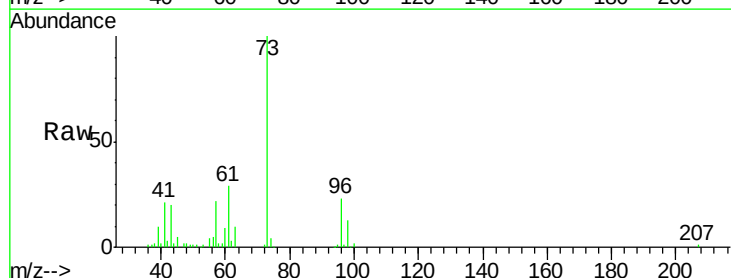
Tgt Ion: 73 Resp: 70282

Ion Ratio Lower Upper

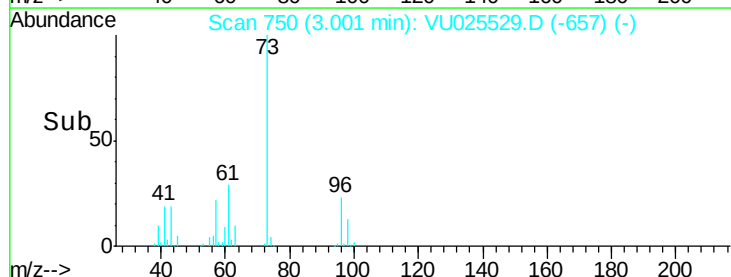
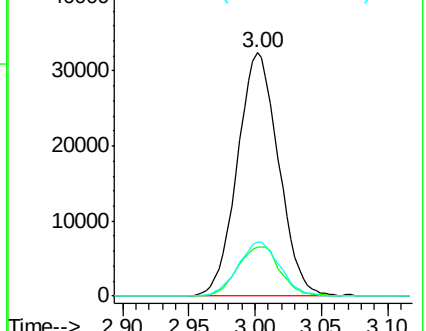
73 100

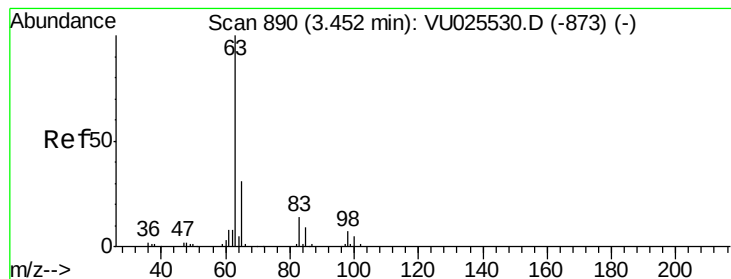
43 20.9 16.2 24.2

57 22.5 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 10.392 ug/L

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

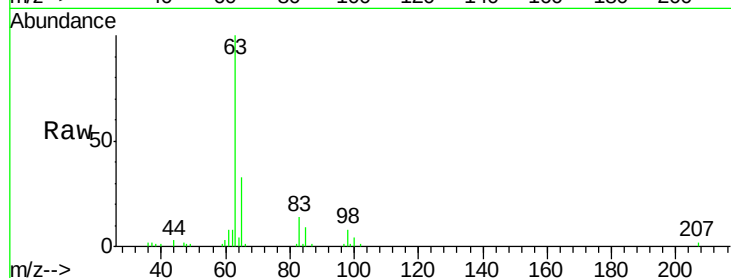
Tot Ion: 63 Resp: 42316

Ion Ratio Lower Upper

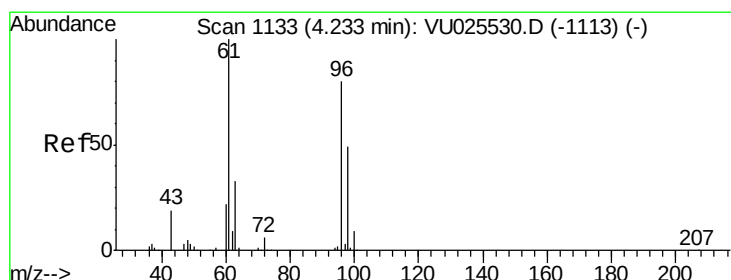
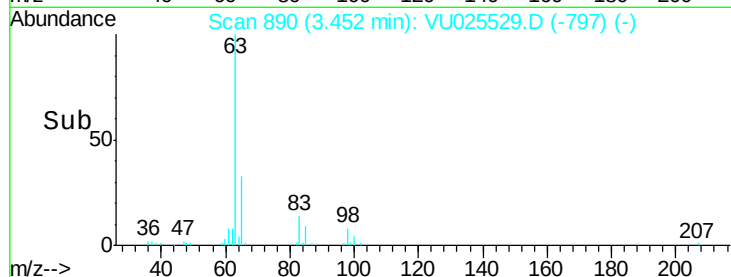
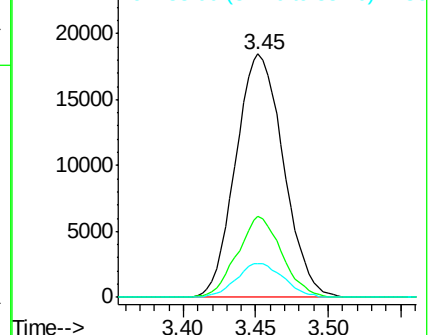
63 100

65 33.3 22.0 41.0

83 14.1 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 9.787 ug/L

RT: 4.23 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

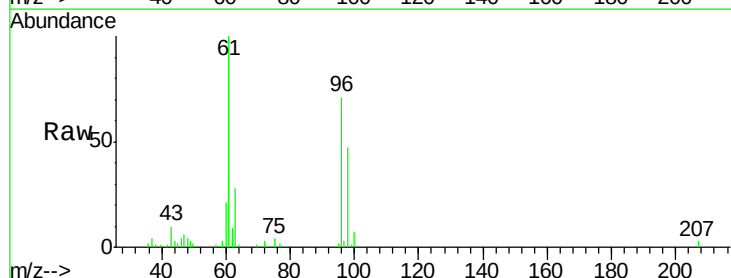
Tgt Ion: 96 Resp: 24343

Ion Ratio Lower Upper

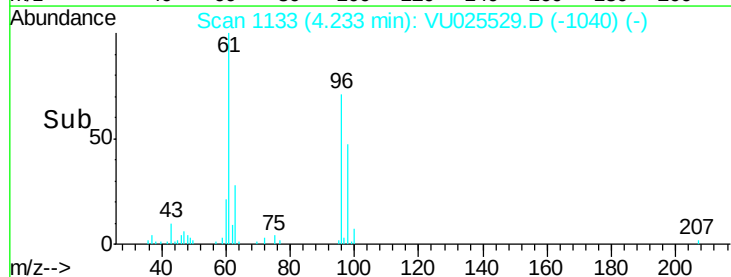
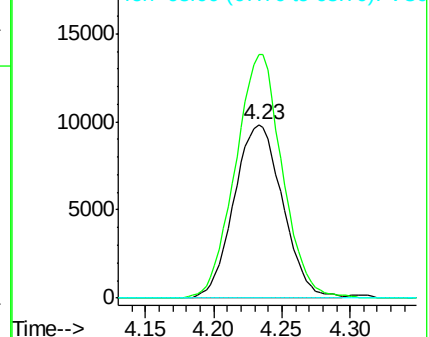
96 100

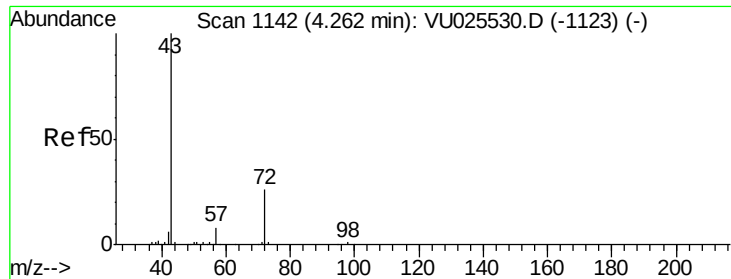
61 140.1 87.4 162.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 21.099 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

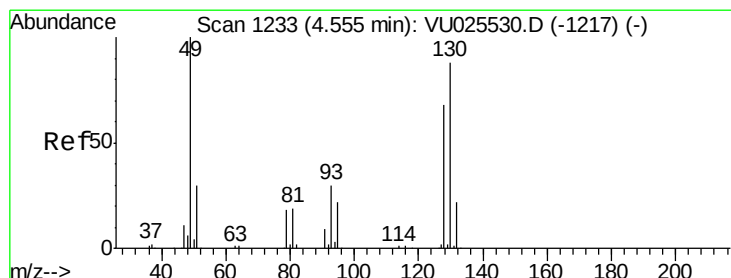
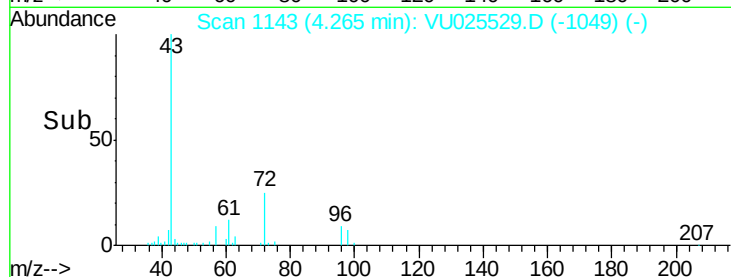
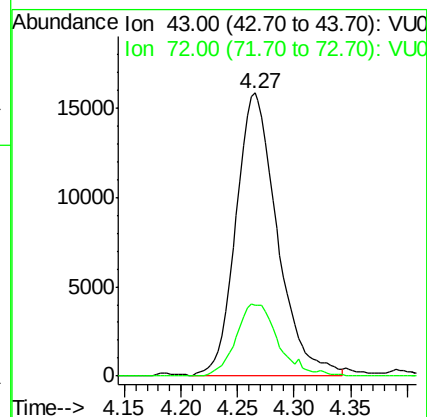
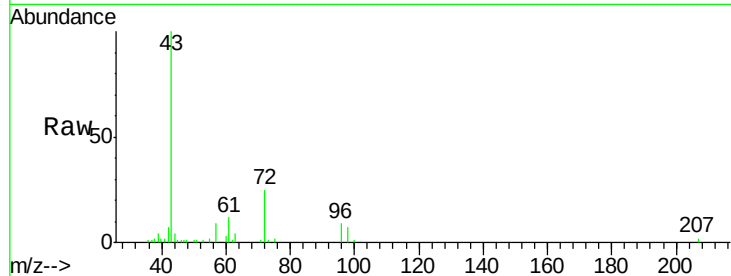
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 40385

Ion Ratio Lower Upper

43 100

72 24.2 13.6 40.8



#23

Bromochloromethane

Concen: 10.159 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Tgt Ion: 128 Resp: 12707

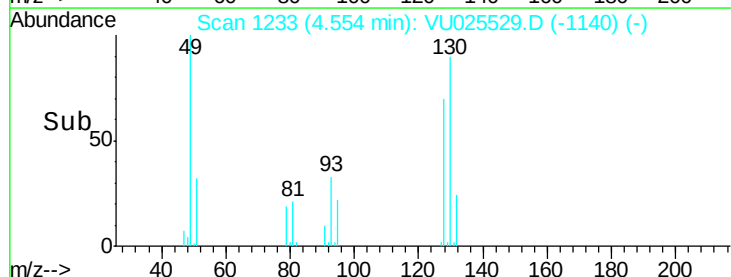
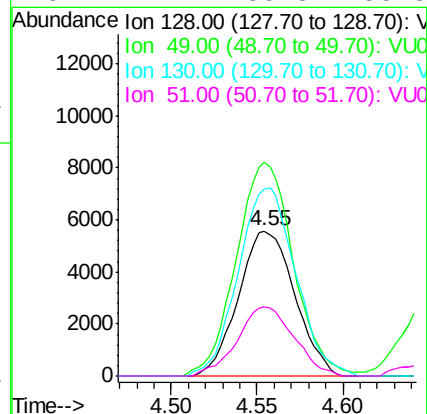
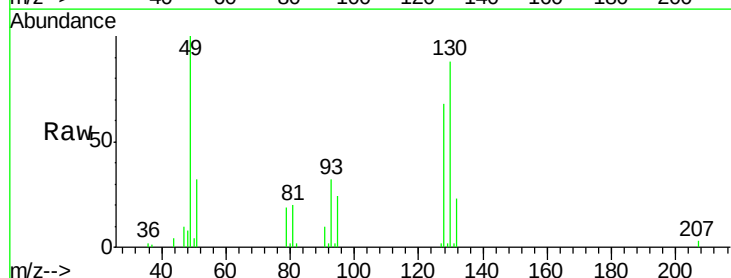
Ion Ratio Lower Upper

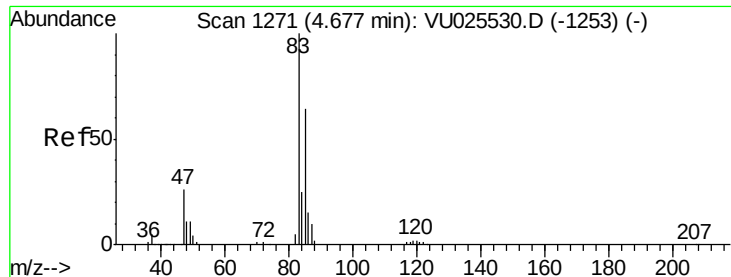
128 100

49 147.5 103.3 191.8

130 129.5 90.4 167.8

51 47.7 35.5 53.3





#25

Chloroform

Concen: 10.315 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

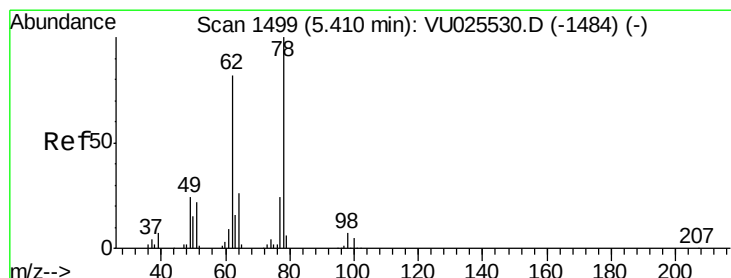
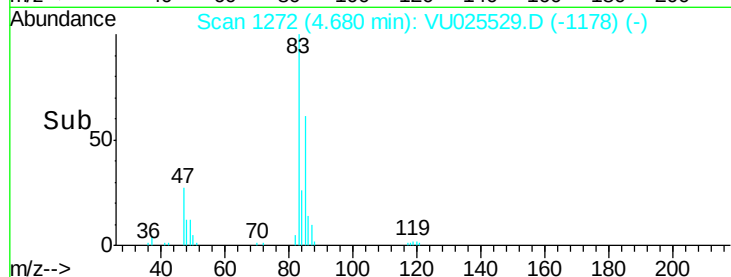
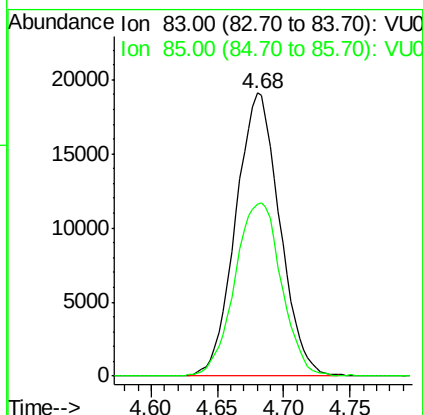
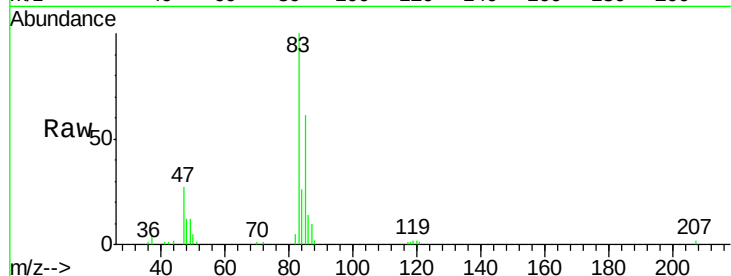
ClientSampled :

Tot Ion: 83 Resp: 44075

Ion Ratio Lower Upper

83 100

85 60.7 45.0 83.6



#27

1,2-Dichloroethane

Concen: 10.309 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU025529.D

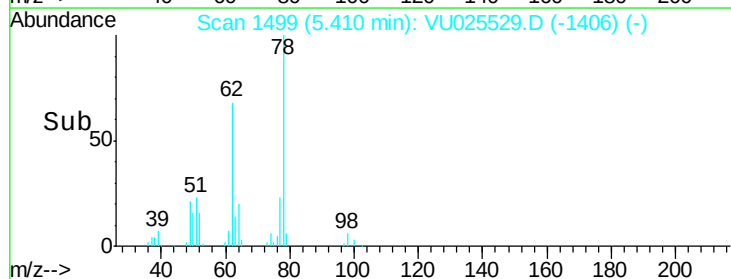
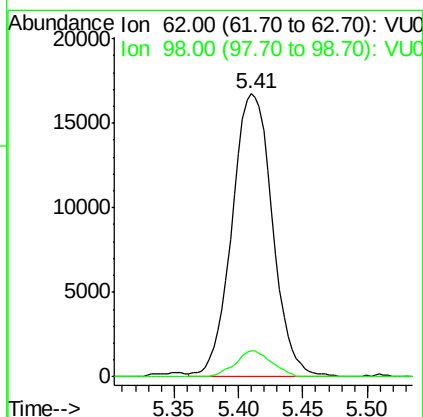
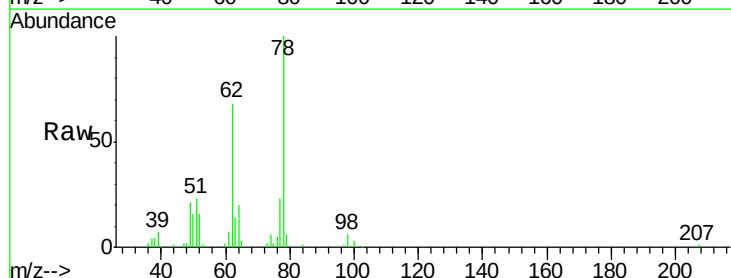
Acq: 20 Jul 2018 09:42

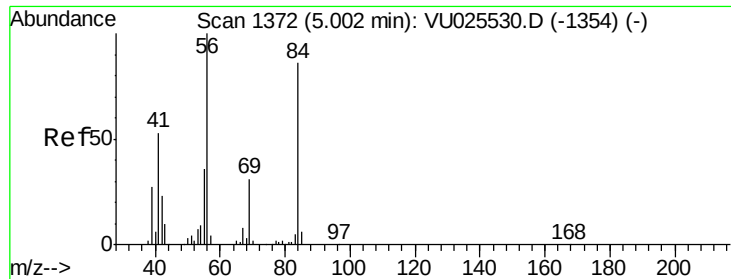
Tgt Ion: 62 Resp: 36575

Ion Ratio Lower Upper

62 100

98 9.3 6.5 9.7

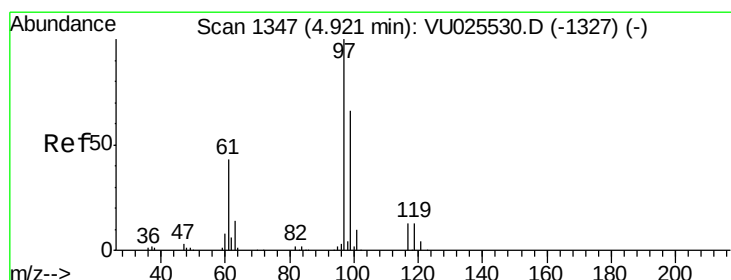
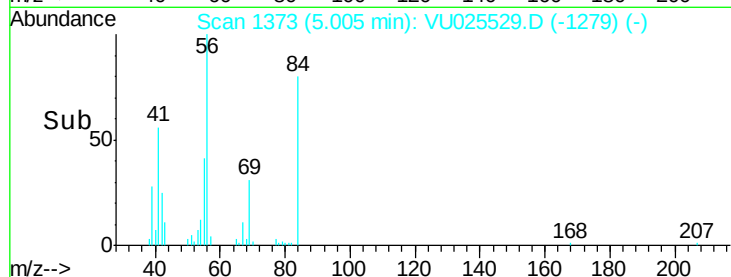
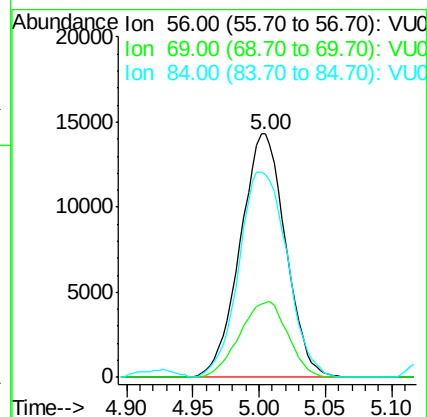
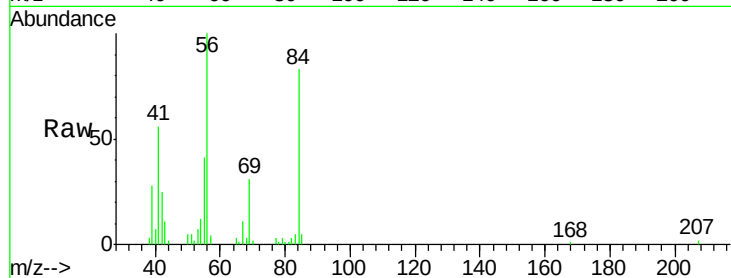




#29
Cyclohexane
Concen: 10.022 ug/L
RT: 5.00 min Scan# 1373
Delta R.T. 0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

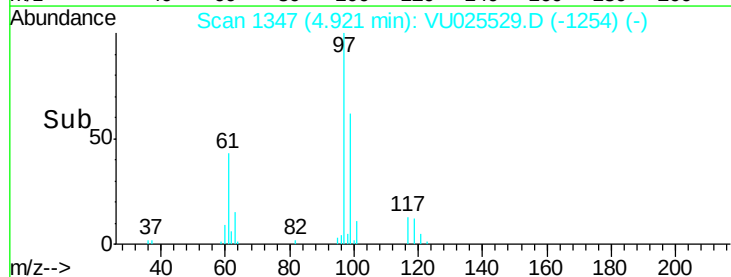
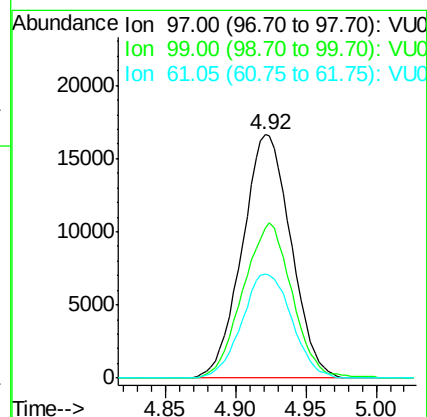
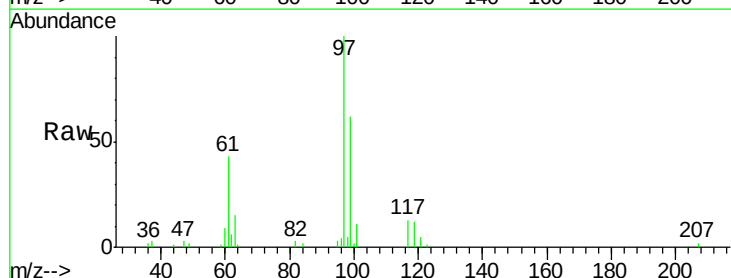
Instrument :
MSVOA_U
ClientSampleId :

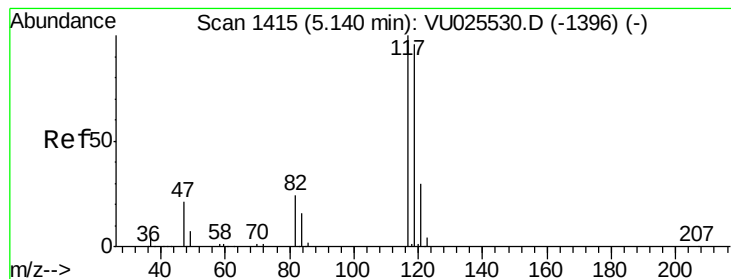
Tot Ion: 56 Resp: 34193
Ion Ratio Lower Upper
56 100
69 32.8 24.8 37.2
84 89.7 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 10.404 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Tgt Ion: 97 Resp: 40213
Ion Ratio Lower Upper
97 100
99 63.8 52.4 78.6
61 43.7 34.6 52.0





#31

Carbon tetrachloride

Concen: 10.413 ug/L

RT: 5.14 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

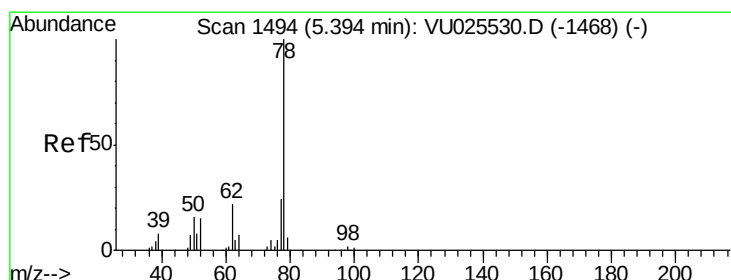
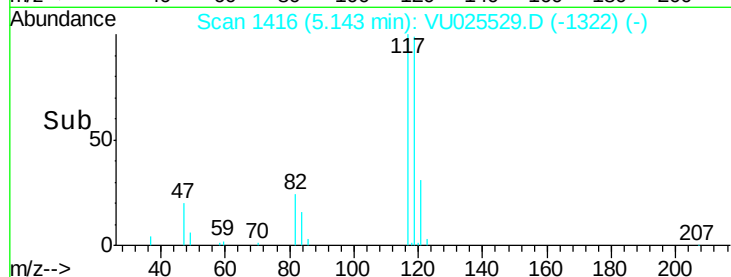
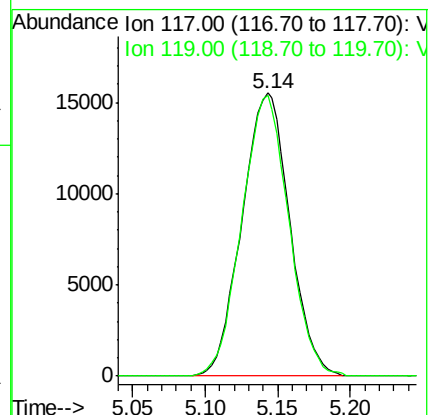
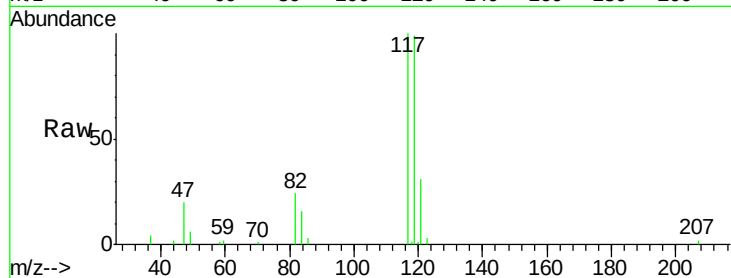
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 35530

Ion Ratio Lower Upper

117 100

119 97.7 76.6 114.8



#33

Benzene

Concen: 10.233 ug/L

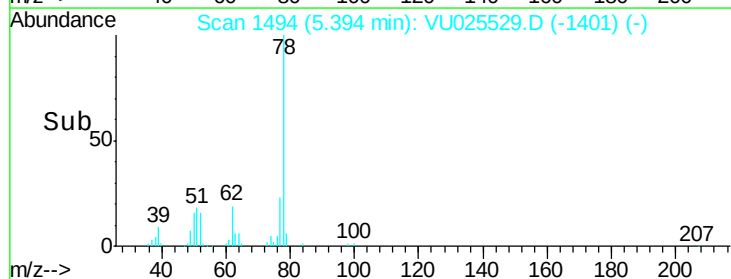
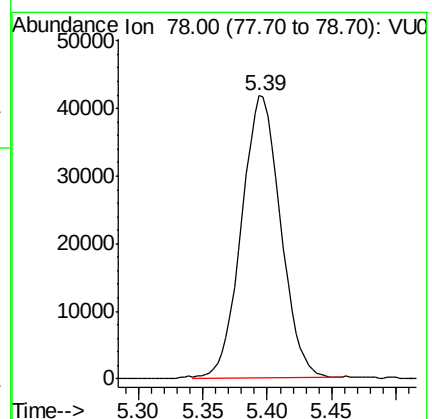
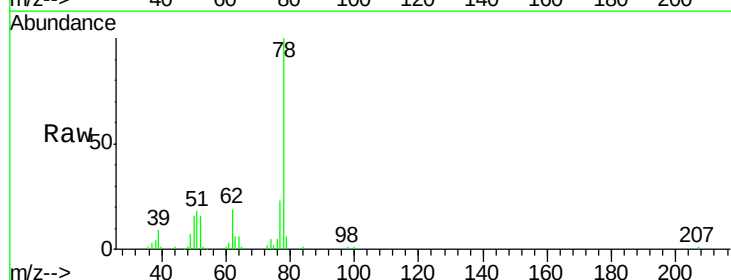
RT: 5.39 min Scan# 1494

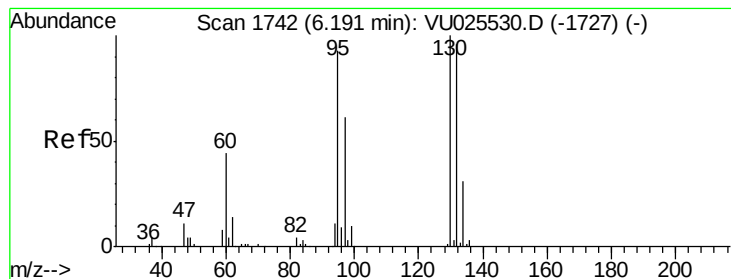
Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Tgt Ion: 78 Resp: 88487





#34

Trichloroethene

Concen: 10.259 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 23506

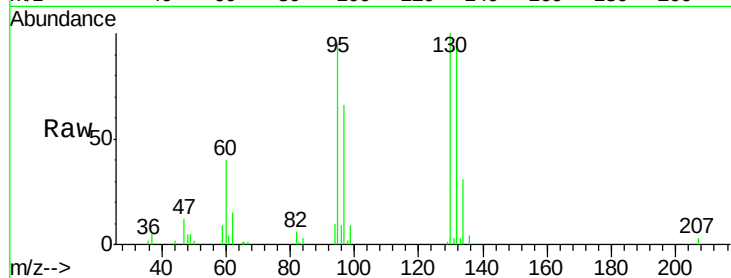
Ion Ratio Lower Upper

95 100

97 68.9 45.9 85.3

132 99.9 72.2 134.2

130 105.0 74.9 139.1

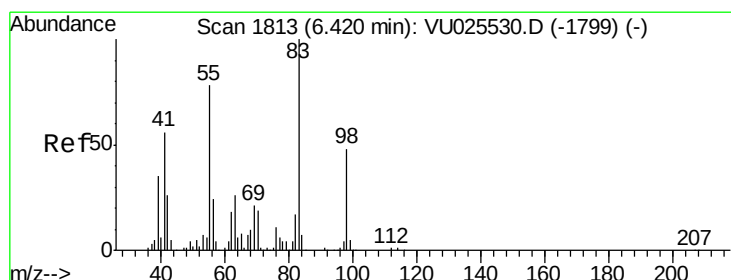
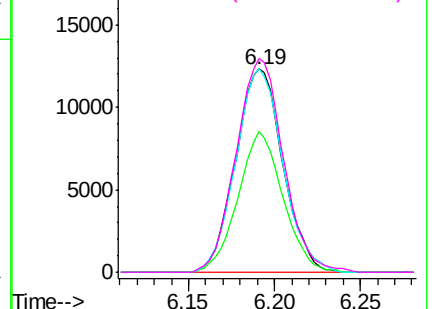
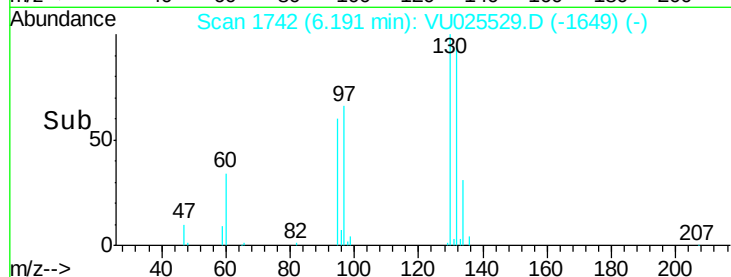


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 10.312 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

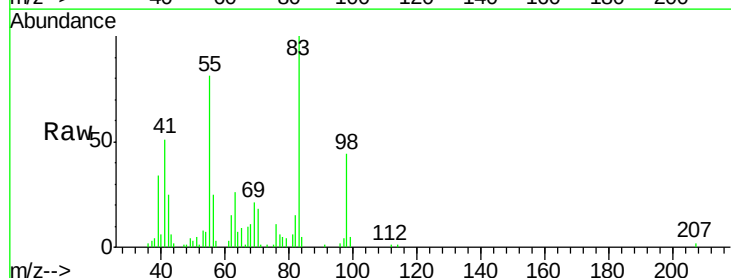
Tgt Ion: 83 Resp: 36994

Ion Ratio Lower Upper

83 100

55 79.0 61.1 91.7

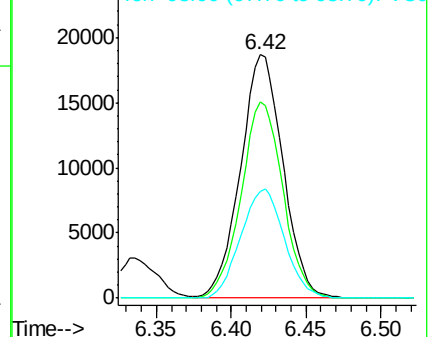
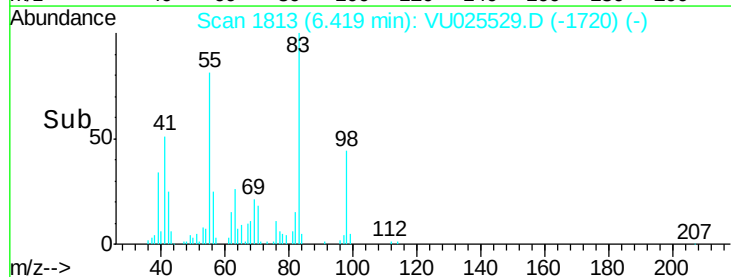
98 45.9 38.6 57.8

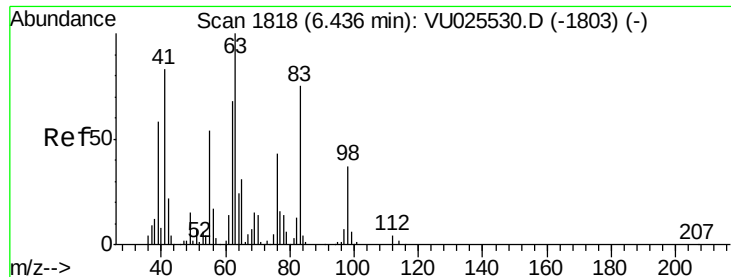


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

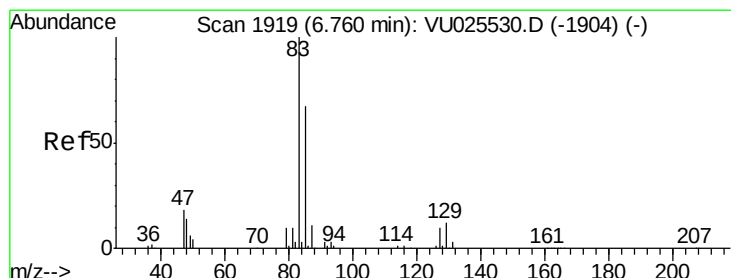
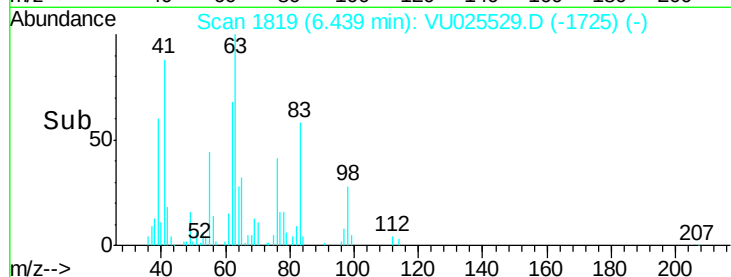
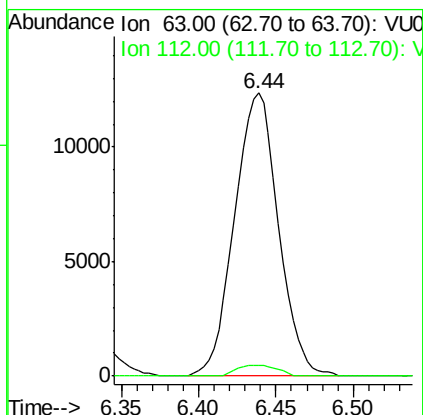
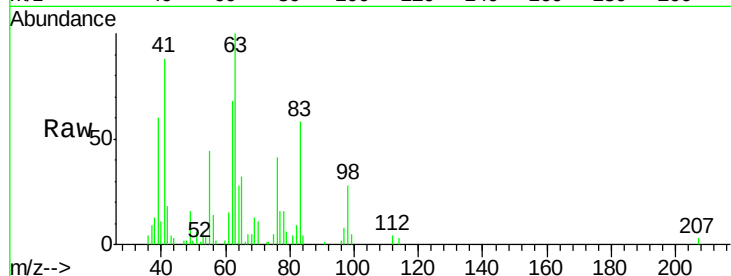




#37
 1,2-Dichloropropane
 Concen: 10.304 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

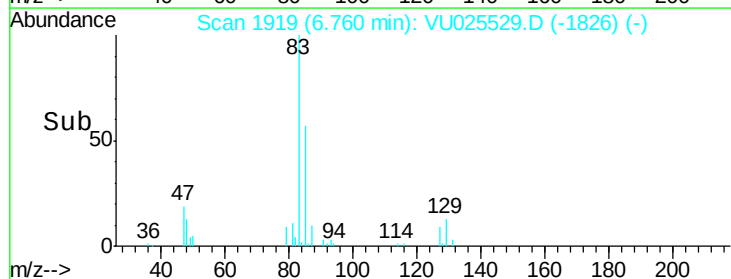
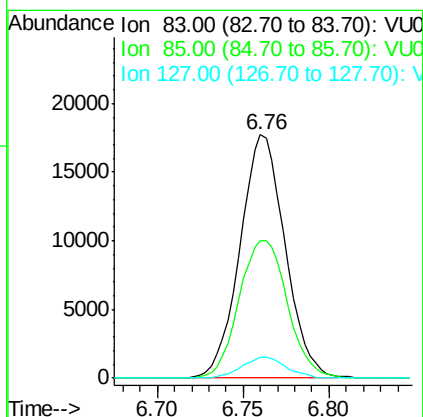
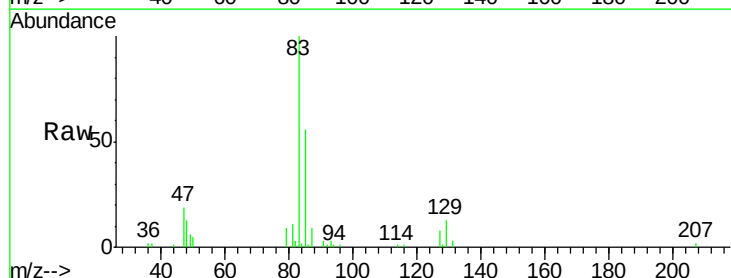
Instrument :
 MSVOA_U
 ClientSampleId :

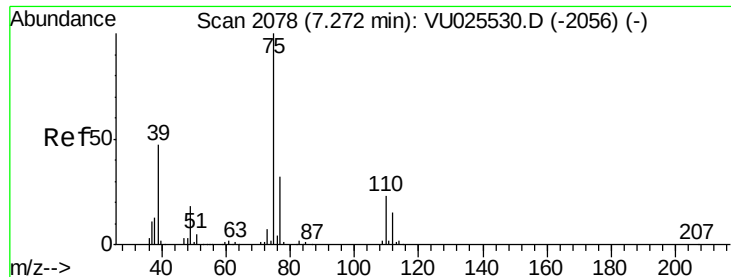
Tot Ion: 63 Resp: 24448
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.3 4.9



#38
 Bromodichloromethane
 Concen: 10.129 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Tgt Ion: 83 Resp: 32258
 Ion Ratio Lower Upper
 83 100
 85 56.4 46.7 86.7
 127 8.4 8.0 12.0



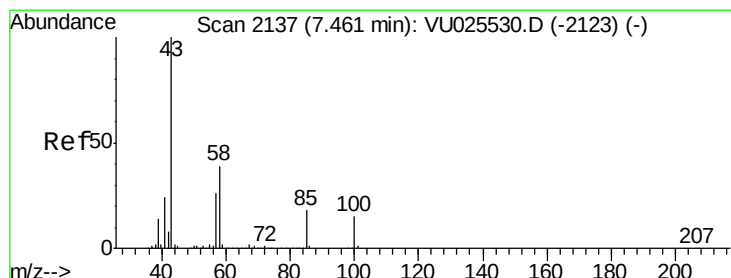
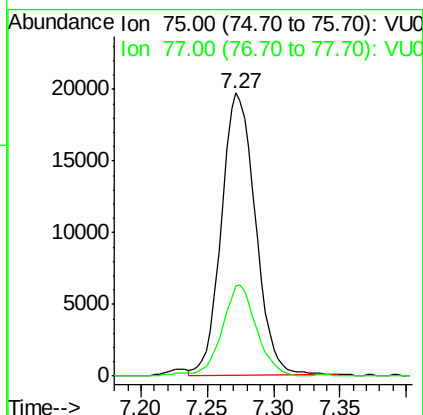
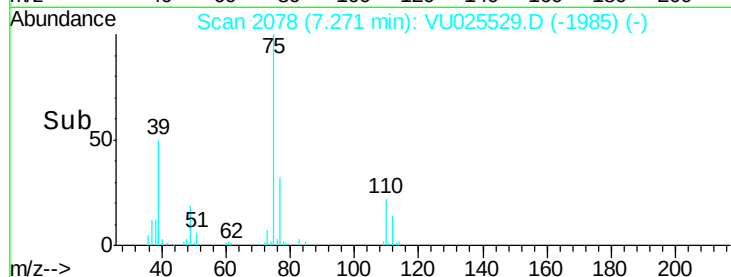
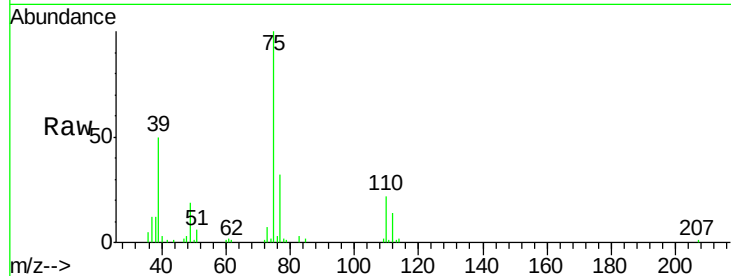


#39

cis-1,3-Dichloropropene
 Concen: 9.537 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Instrument :
 MSVOA_U
 ClientSampleId :

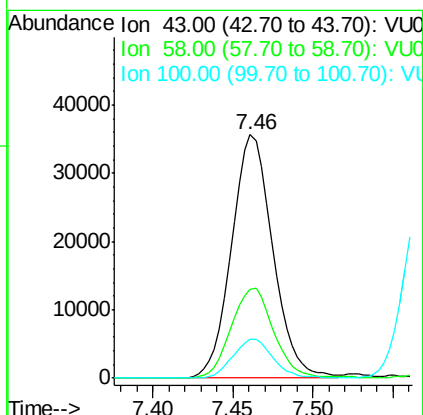
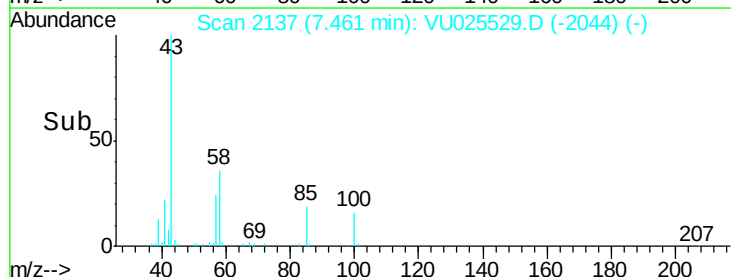
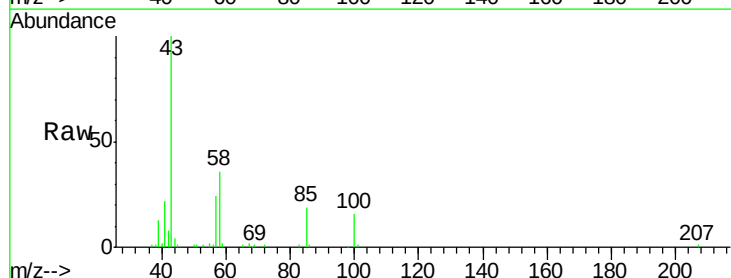
Tot Ion: 75 Resp: 35106
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.0 41.0

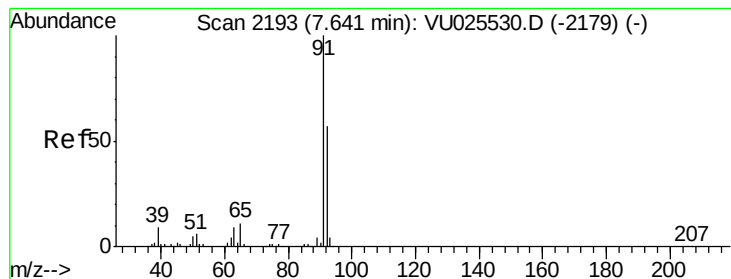


#40

4-Methyl-2-pentanone
 Concen: 18.463 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Tgt Ion: 43 Resp: 62726
 Ion Ratio Lower Upper
 43 100
 58 37.9 30.8 46.2
 100 15.2 12.1 18.1





#42

Toluene

Concen: 10.067 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

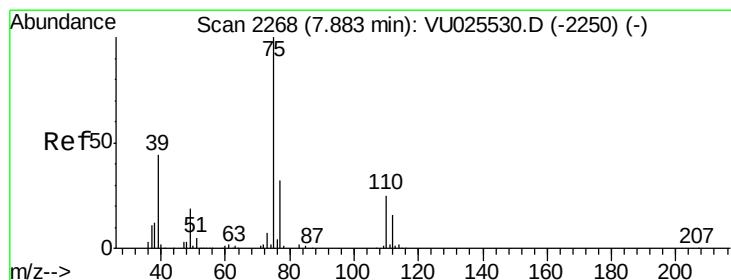
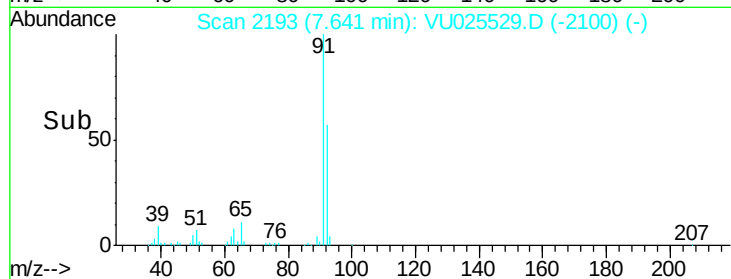
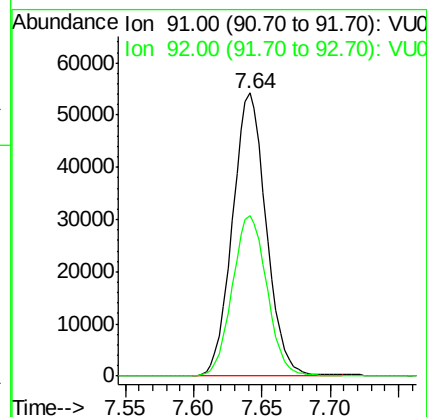
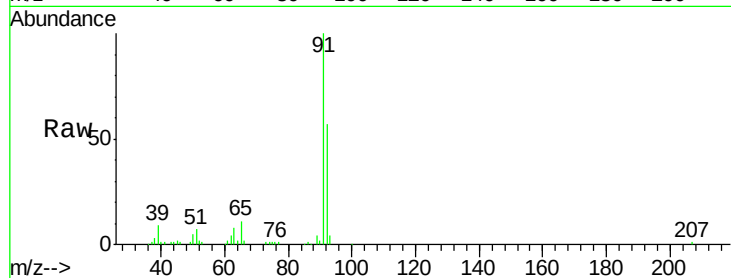
ClientSampleId :

Tot Ion: 91 Resp: 93315

Ion Ratio Lower Upper

91 100

92 56.6 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 9.483 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025529.D

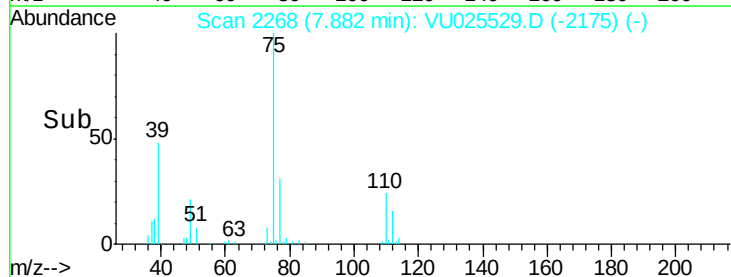
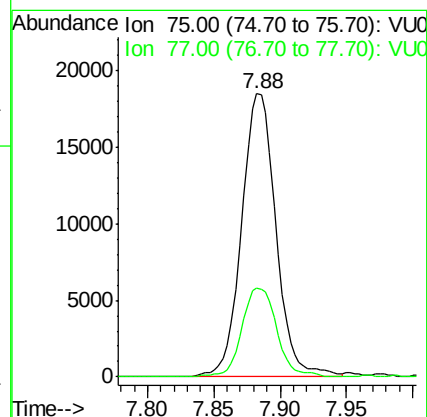
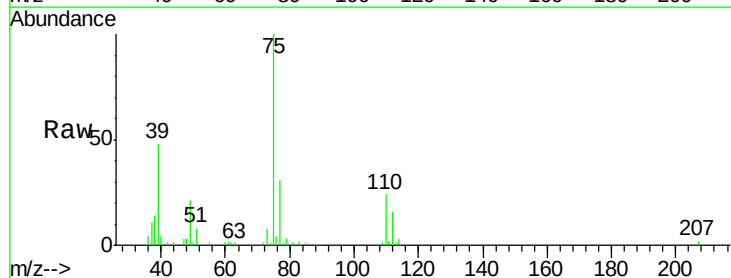
Acq: 20 Jul 2018 09:42

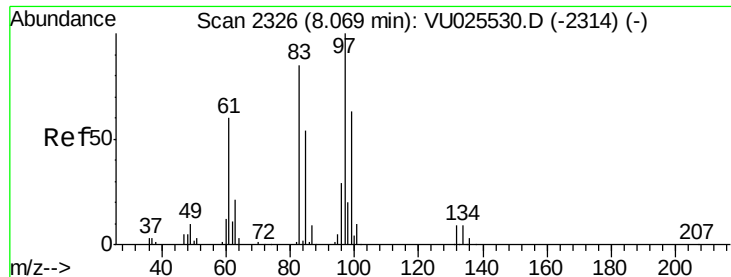
Tgt Ion: 75 Resp: 33415

Ion Ratio Lower Upper

75 100

77 31.3 22.2 41.2

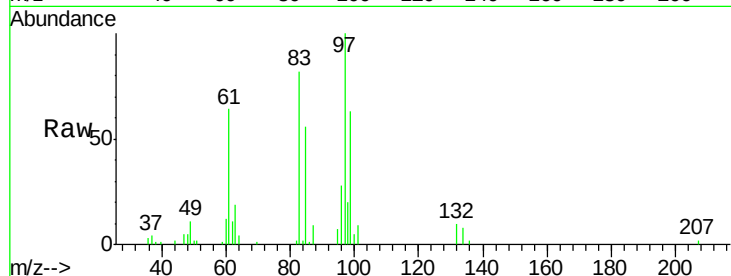




#45
 1,1,2-Trichloroethane
 Concen: 10.400 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97.00	Resp:	23450
Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.3	82.3
83	82.3	59.8	111.1
85	56.4	37.9	70.5



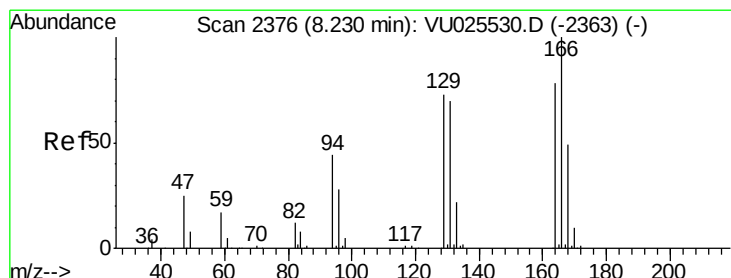
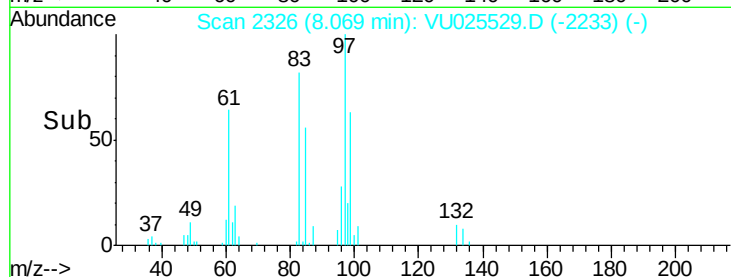
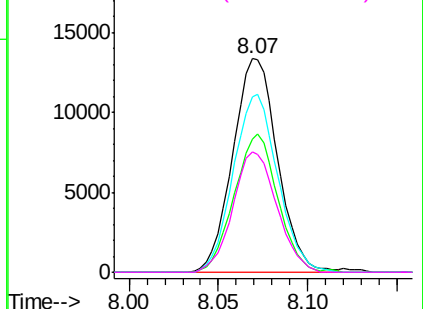
Abundance

Ion 97.00 (96.70 to 97.70): VU025529.D (-2283) (-)

Ion 99.00 (98.70 to 99.70): VU025529.D (-2283) (-)

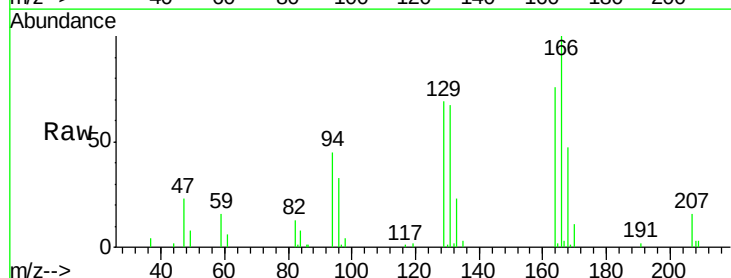
Ion 83.00 (82.70 to 83.70): VU025529.D (-2283) (-)

Ion 85.00 (84.70 to 85.70): VU025529.D (-2283) (-)



#46
 Tetrachloroethene
 Concen: 10.360 ug/L
 RT: 8.23 min Scan# 2377
 Delta R.T. 0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Tgt Ion:	164.00	Resp:	20262
Ion	Ratio	Lower	Upper
164	100		
129	91.9	65.1	120.9
131	88.8	62.8	116.6
166	132.4	89.7	166.7



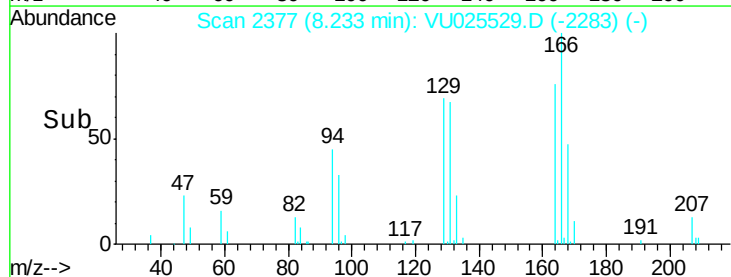
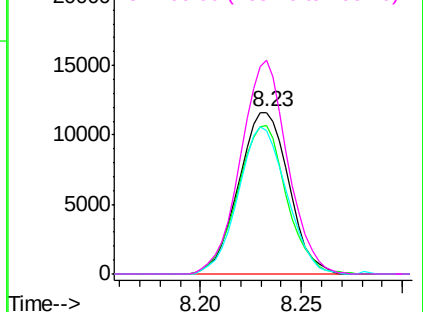
Abundance

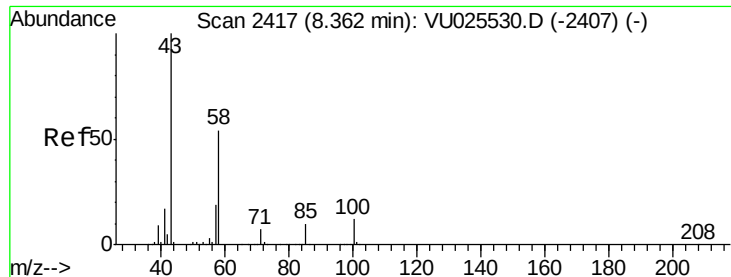
Ion 164.00 (163.70 to 164.70): VU025529.D (-2283) (-)

Ion 129.00 (128.70 to 129.70): VU025529.D (-2283) (-)

Ion 131.00 (130.70 to 131.70): VU025529.D (-2283) (-)

Ion 166.00 (165.70 to 166.70): VU025529.D (-2283) (-)

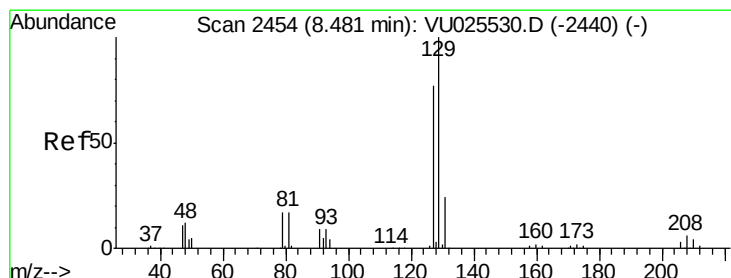
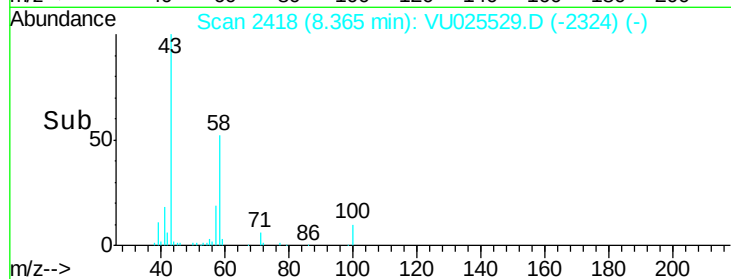
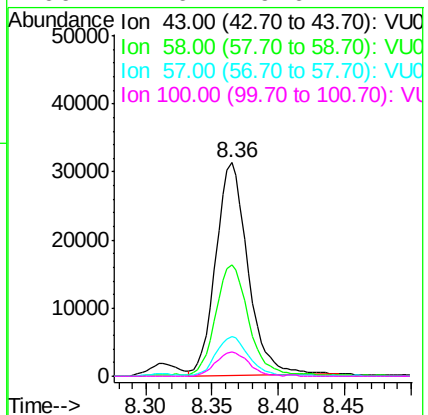
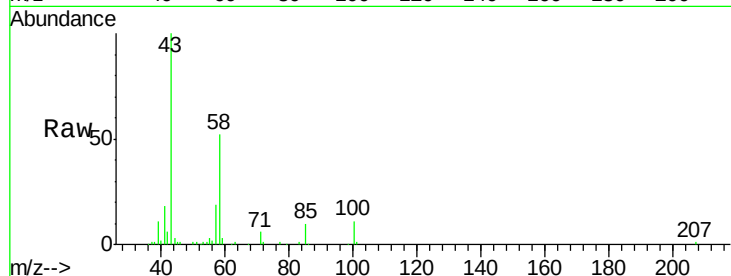




#48
2-Hexanone
Concen: 19.222 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

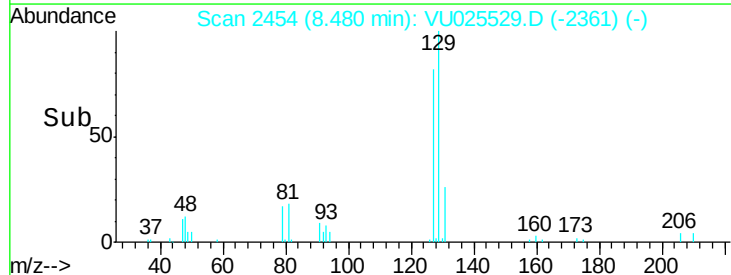
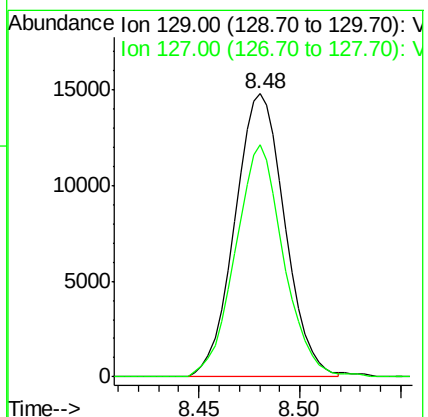
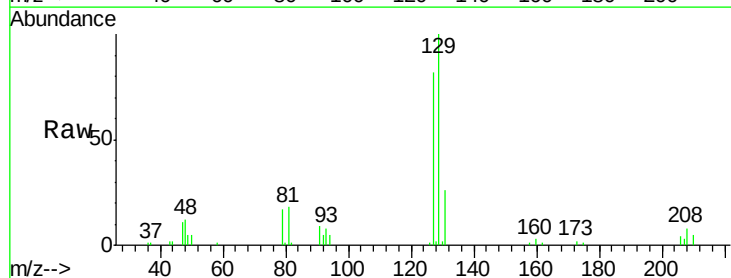
Instrument :
MSVOA_U
ClientSampleId :

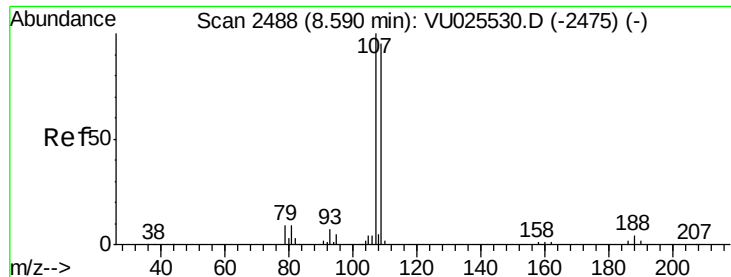
Tot Ion: 43 Resp: 52583
Ion Ratio Lower Upper
43 100
58 52.4 42.9 64.3
57 17.9 15.4 23.2
100 11.6 9.6 14.4



#49
Dibromochloromethane
Concen: 9.419 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Tgt Ion: 129 Resp: 25632
Ion Ratio Lower Upper
129 100
127 81.8 53.8 100.0

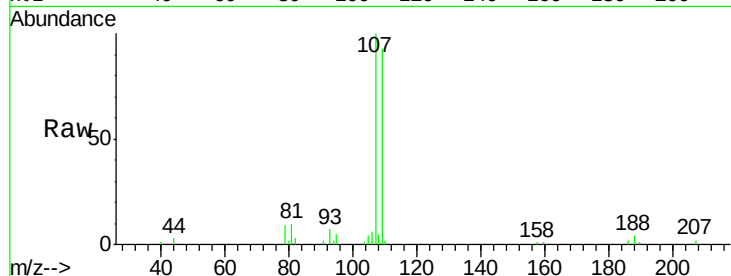




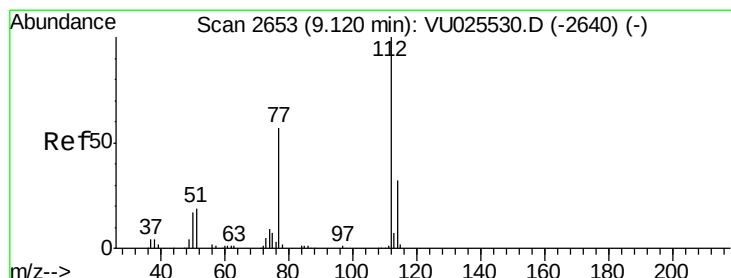
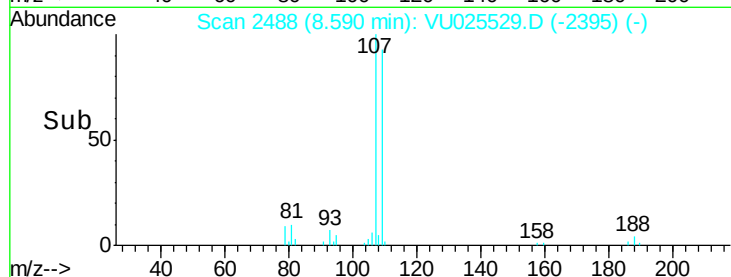
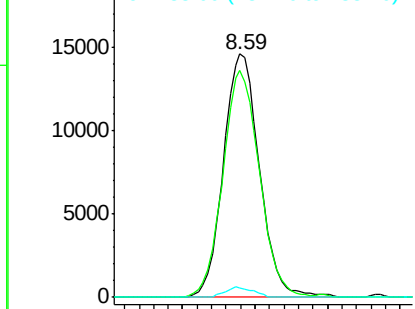
#50
1,2-Dibromoethane
Concen: 10.150 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	66.6	123.8
188	4.0	3.2	4.8

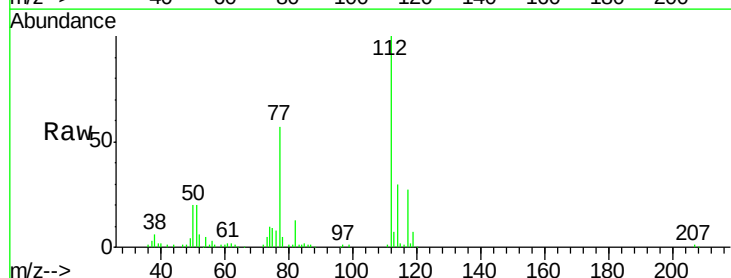


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

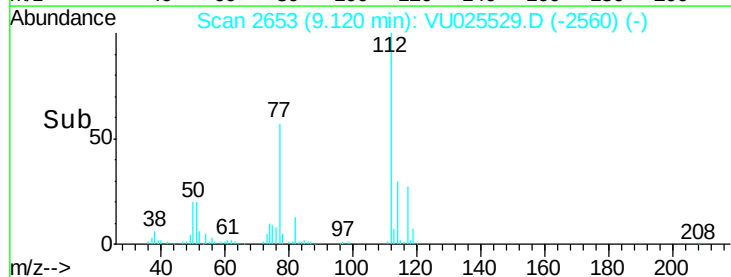
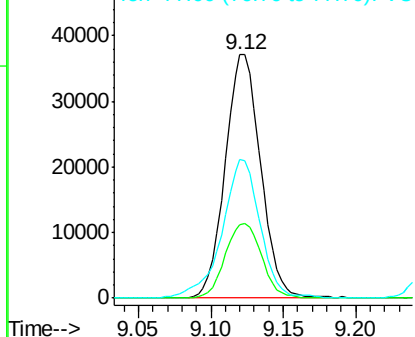


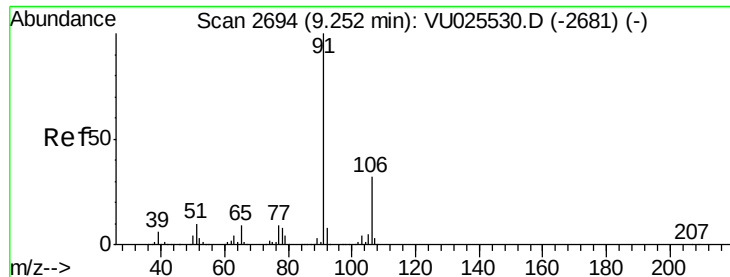
#51
Chlorobenzene
Concen: 10.162 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.3	22.5	41.9
77	57.0	45.8	68.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

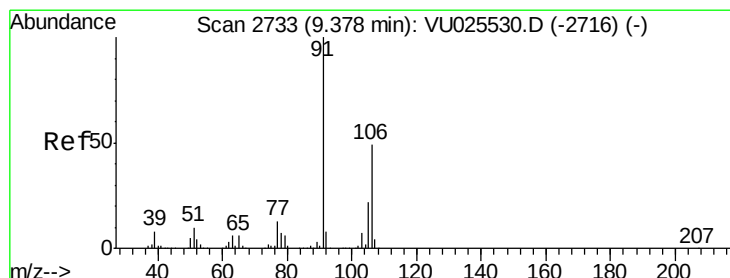
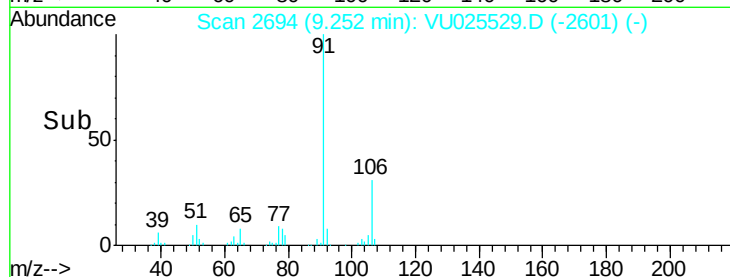
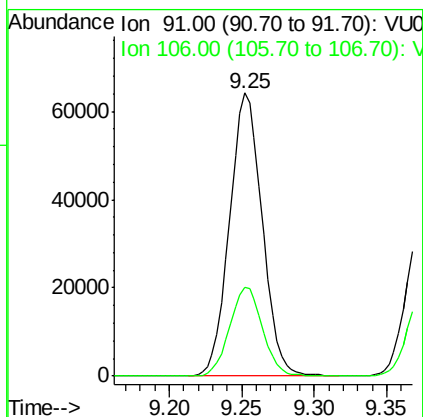
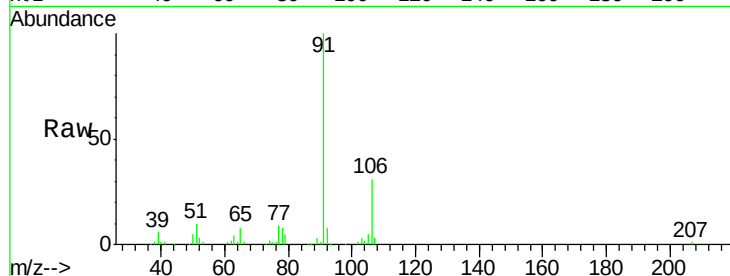




#52
Ethylbenzene
Concen: 9.678 ug/L
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

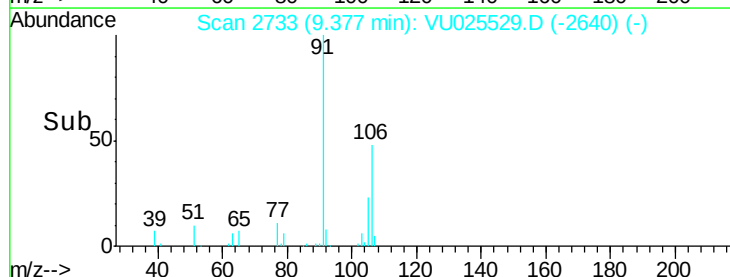
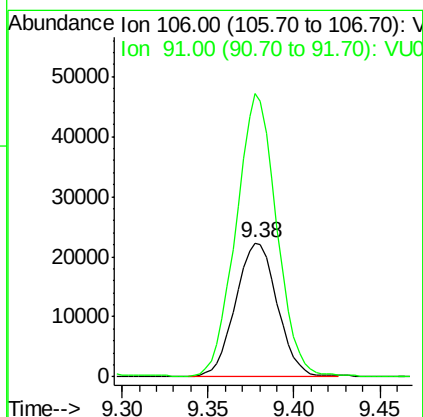
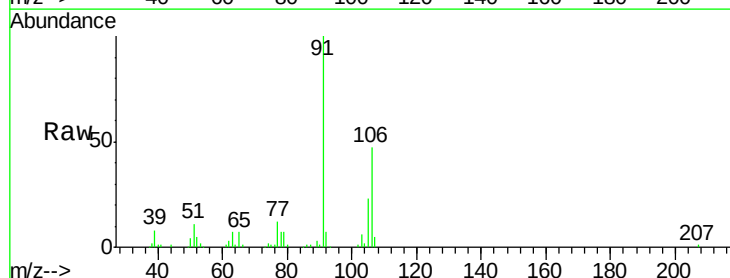
Instrument :
MSVOA_U
ClientSampleId :

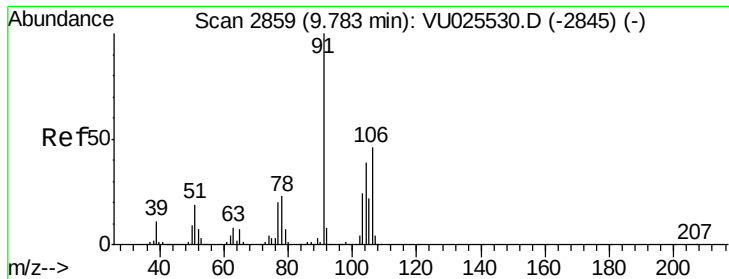
Tot Ion: 91 Resp: 100204
Ion Ratio Lower Upper
91 100
106 31.2 22.3 41.5



#53
m,p-Xylene
Concen: 9.467 ug/L
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU025529.D
Acq: 20 Jul 2018 09:42

Tgt Ion: 106 Resp: 37679
Ion Ratio Lower Upper
106 100
91 210.9 141.7 263.3





#54

o-xylene

Concen: 9.635 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

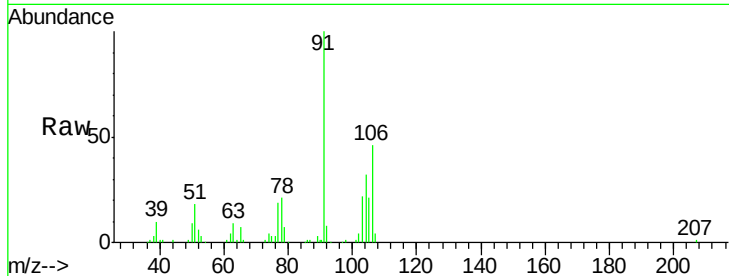
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 38536

Ion Ratio Lower Upper

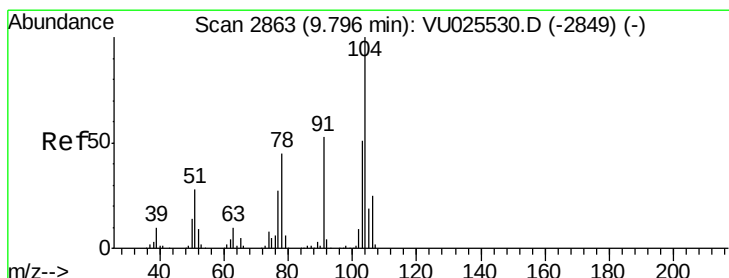
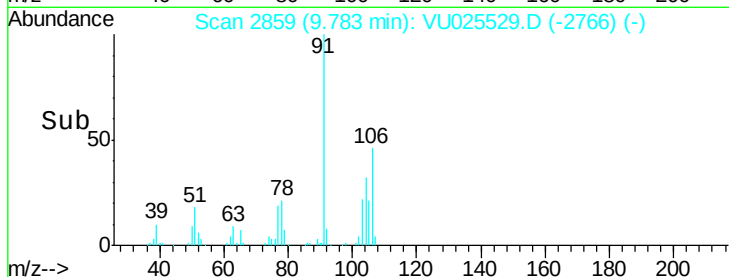
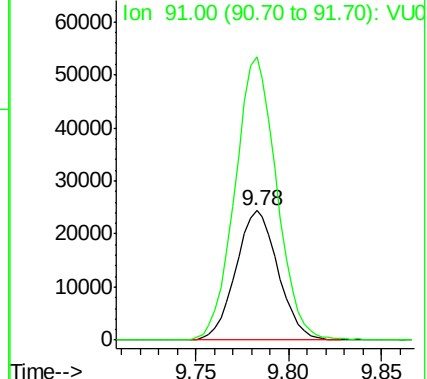
106 100

91 218.9 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 9.184 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025529.D

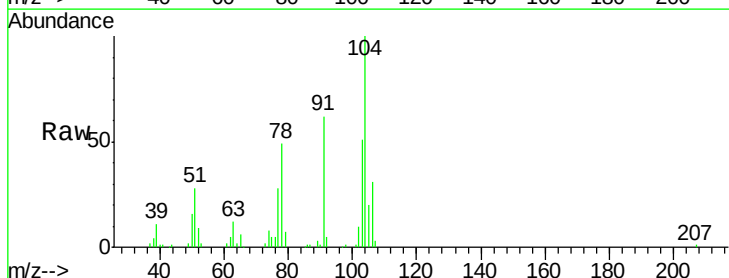
Acq: 20 Jul 2018 09:42

Tgt Ion:104 Resp: 60625

Ion Ratio Lower Upper

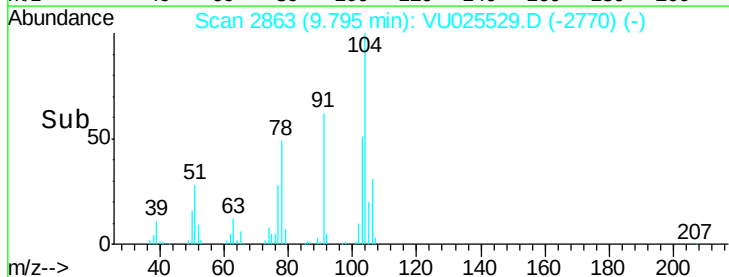
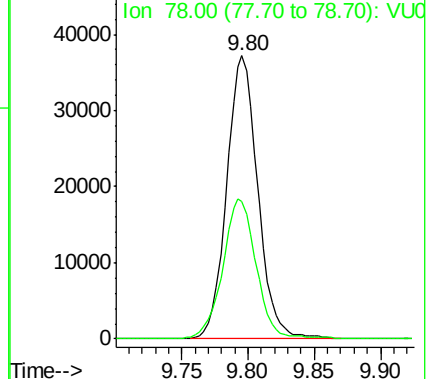
104 100

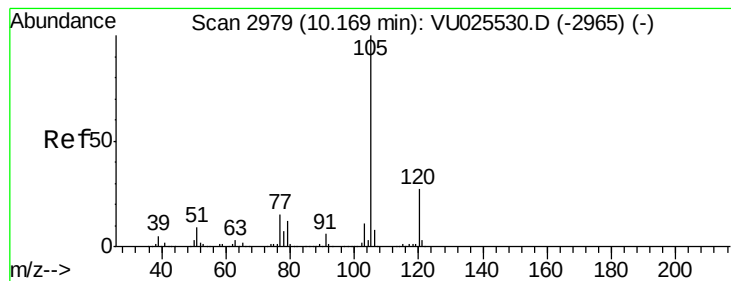
78 48.5 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 9.551 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

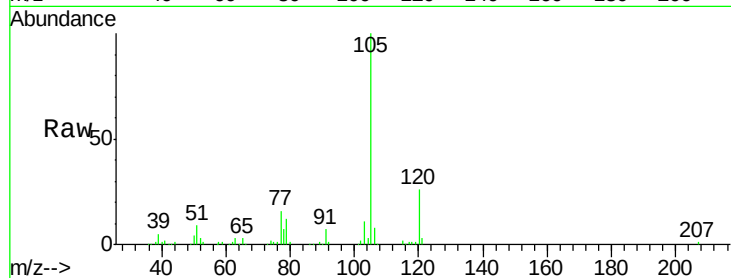
Tot Ion:105 Resp: 99285

Ion Ratio Lower Upper

105 100

120 26.2 21.7 32.5

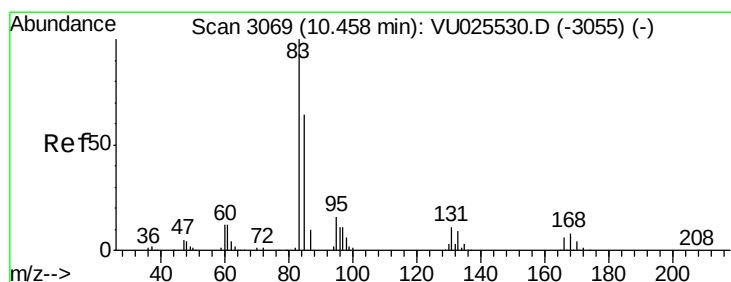
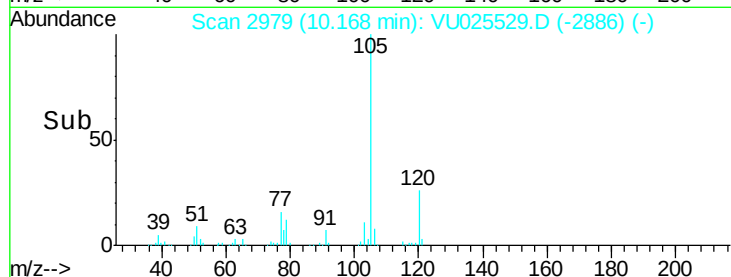
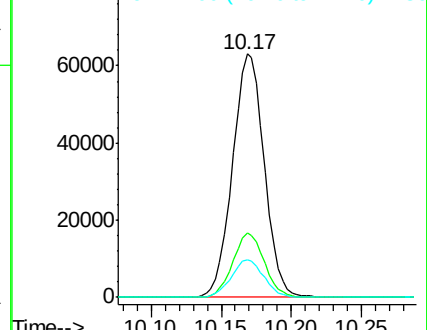
77 15.9 12.4 18.6



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: 9.542 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

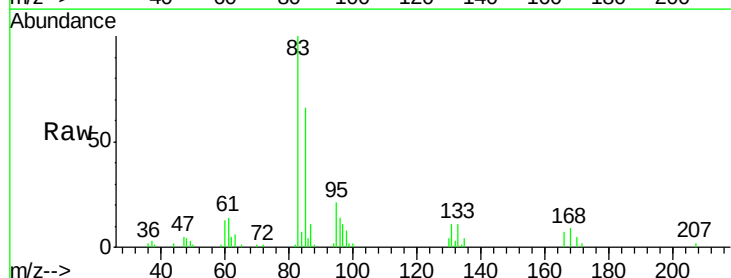
Tgt Ion: 83 Resp: 36807

Ion Ratio Lower Upper

83 100

85 66.3 45.1 83.7

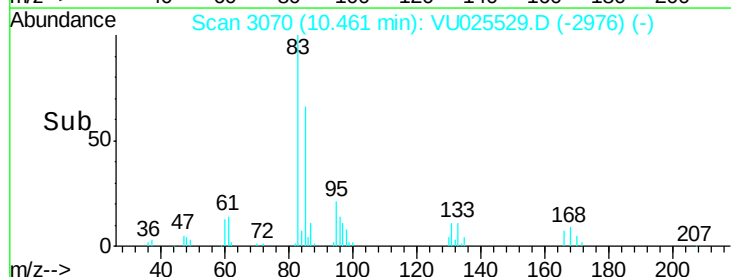
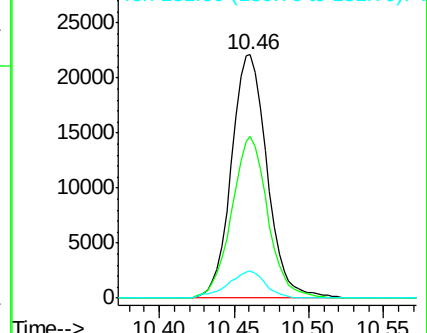
131 11.2 8.7 13.1

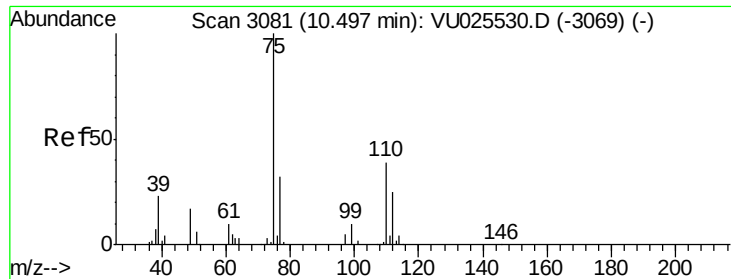


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

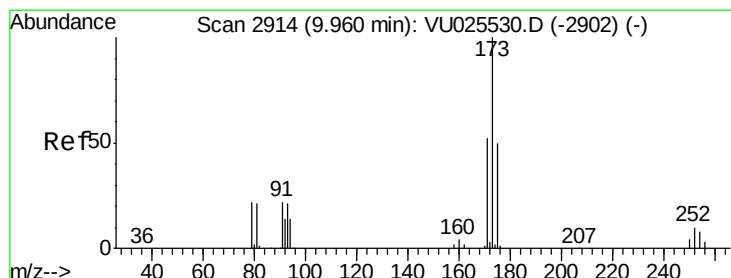
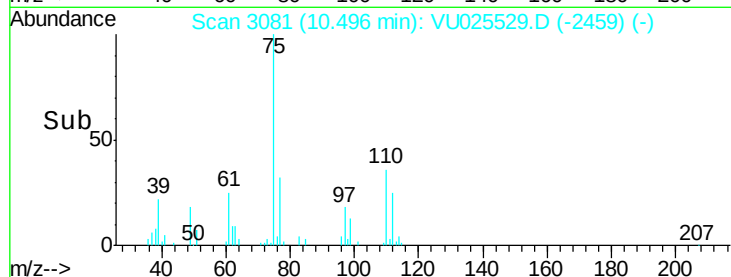
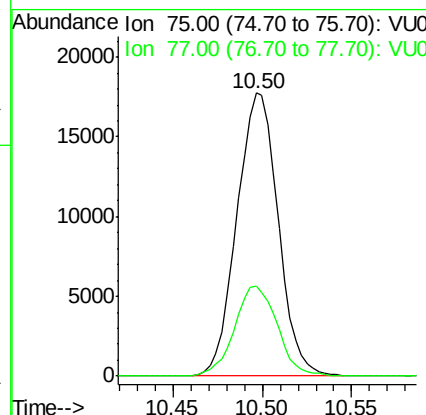
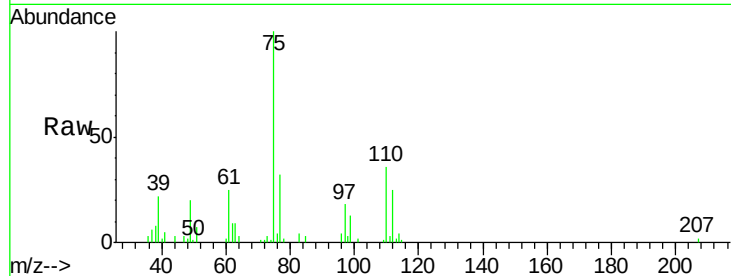




#59
 1,2,3-Trichloropropane
 Concen: 9.216 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

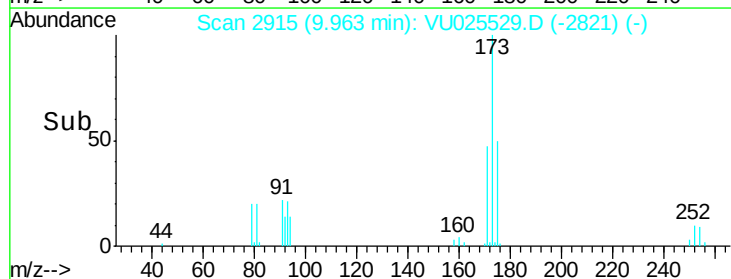
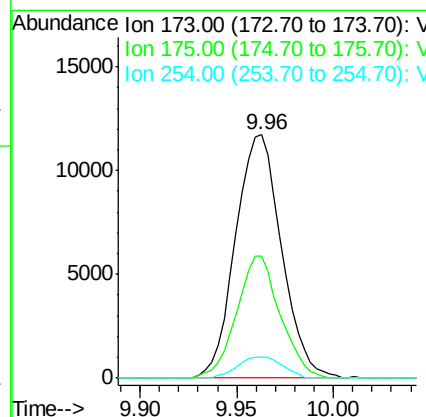
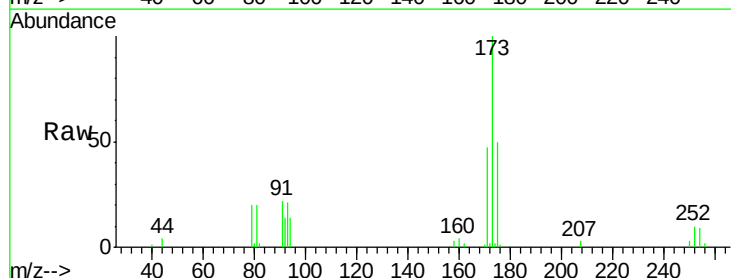
Instrument :
 MSVOA_U
 ClientSampleId :

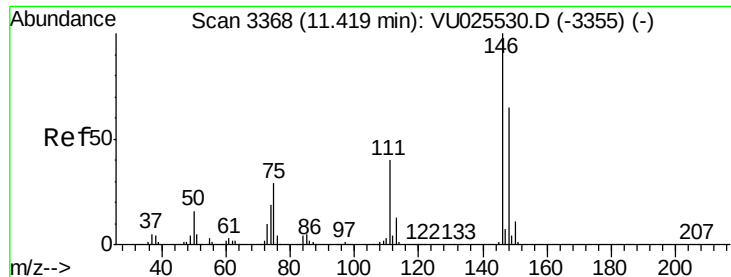
Tot Ion: 75 Resp: 28588
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.8 38.8



#61
 Bromoform
 Concen: 10.060 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Tgt Ion: 173 Resp: 19434
 Ion Ratio Lower Upper
 173 100
 175 47.4 39.8 59.8
 254 8.5 7.3 10.9

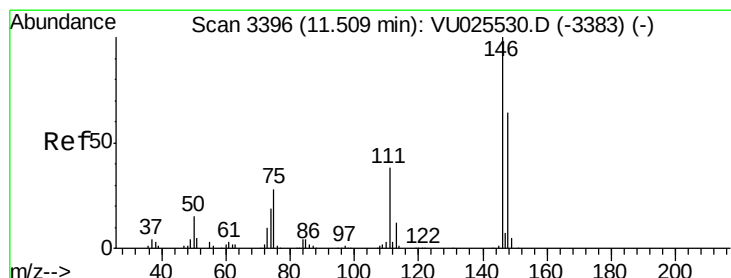
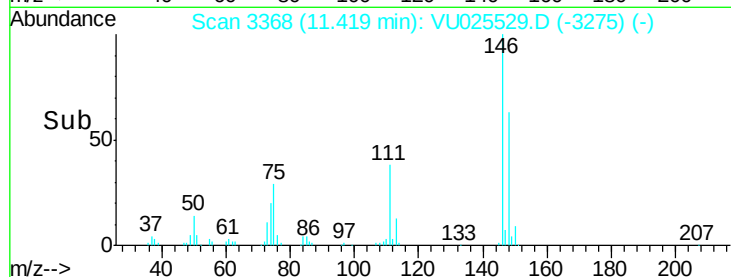
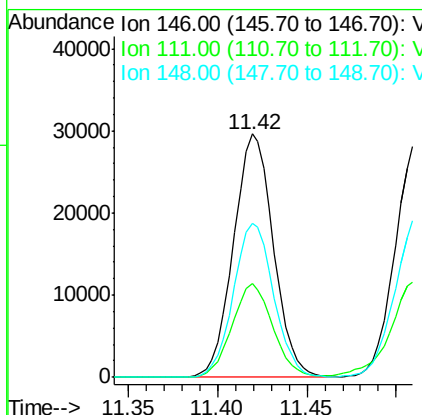
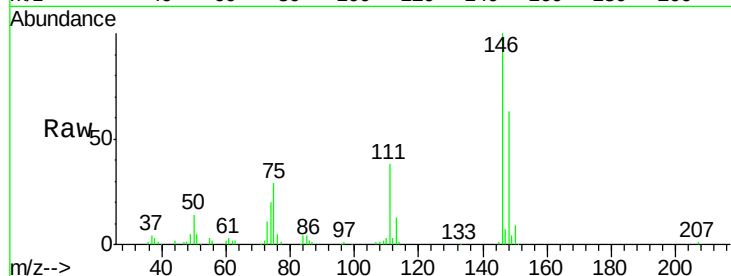




#62
 1,3-Dichlorobenzene
 Concen: 9.955 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

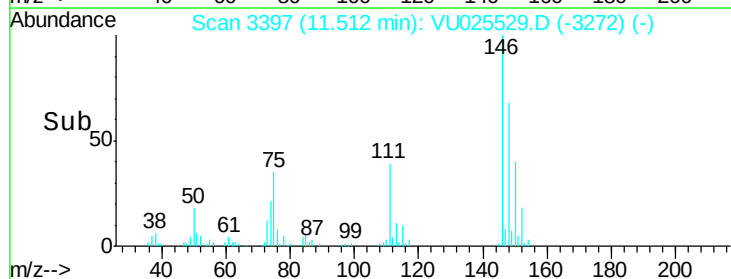
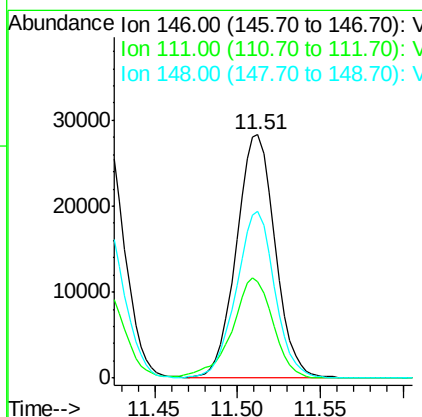
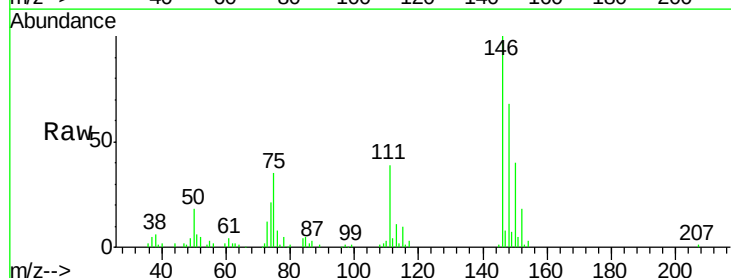
Instrument :
 MSVOA_U
 ClientSampleId :

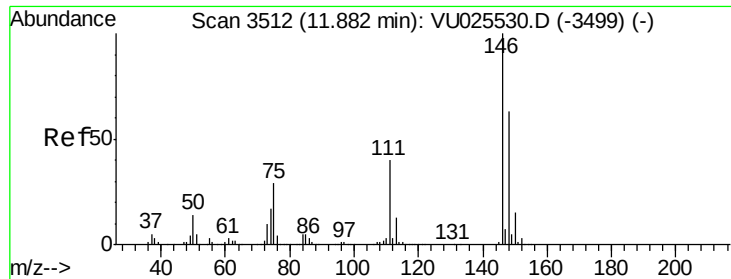
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	27.7	51.5
148	63.4	45.5	84.5



#63
 1,4-Dichlorobenzene
 Concen: 9.747 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	26.9	49.9
148	68.3	44.6	82.8





#65

1,2-Dichlorobenzene

Concen: 10.081 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

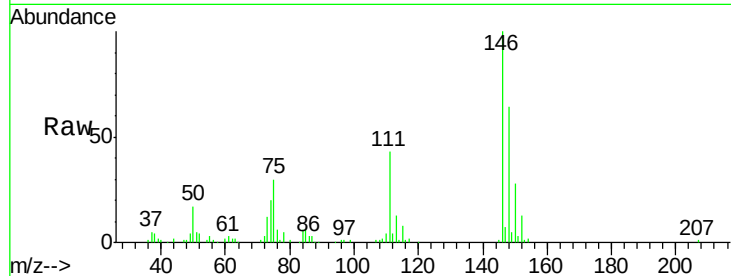
Tot Ion:146 Resp: 49434

Ion Ratio Lower Upper

146 100

111 43.2 32.4 48.6

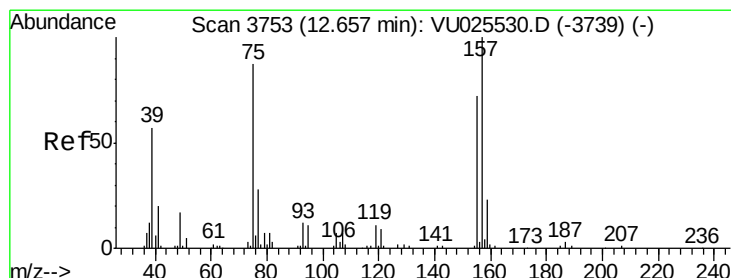
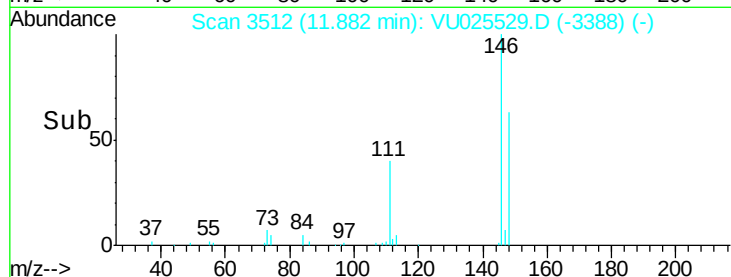
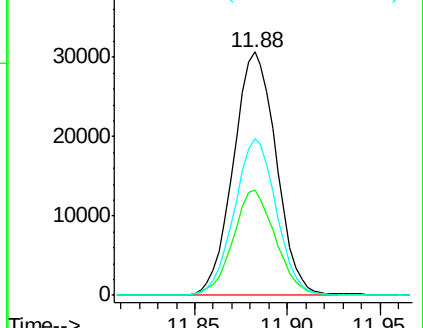
148 64.4 50.7 76.1



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



#66

1,2-Dibromo-3-chloropropane

Concen: 8.494 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

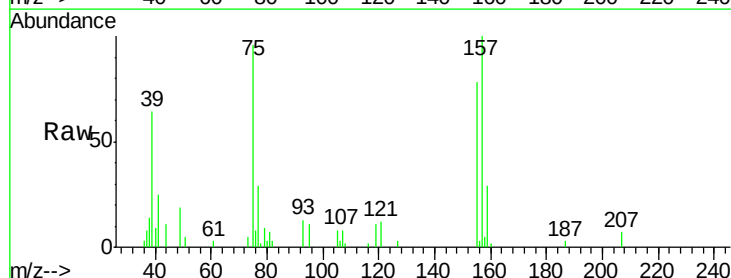
Tgt Ion: 75 Resp: 7490

Ion Ratio Lower Upper

75 100

155 81.1 66.3 99.5

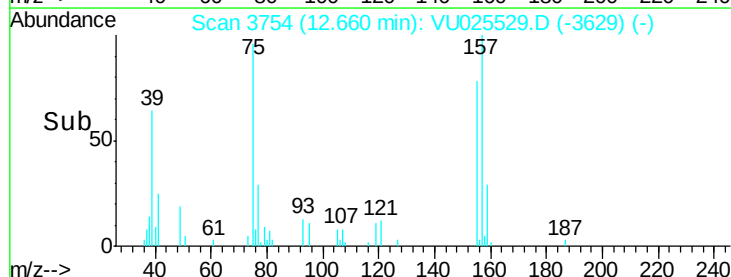
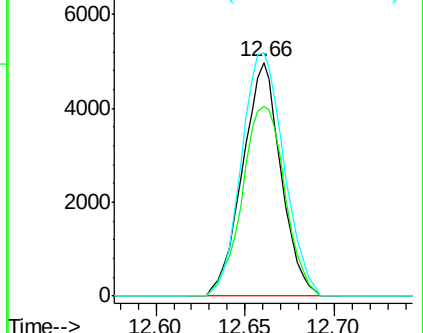
157 104.1 91.5 137.3

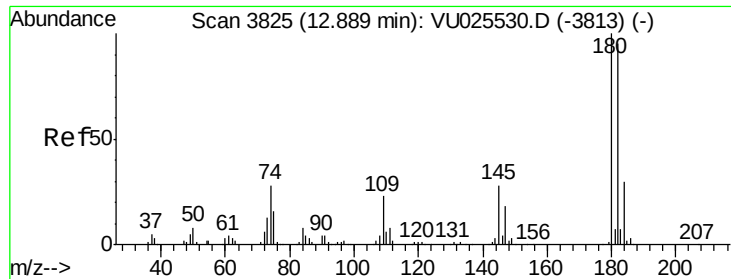


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

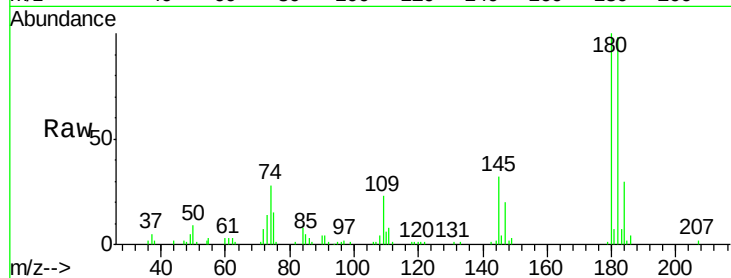




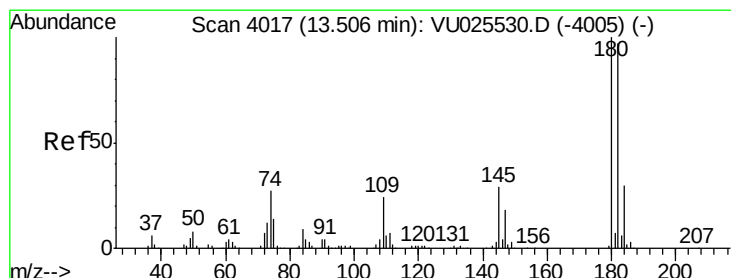
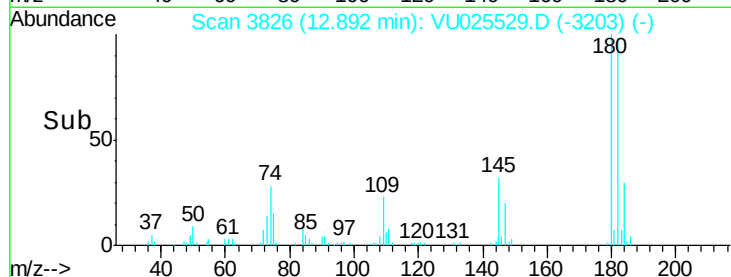
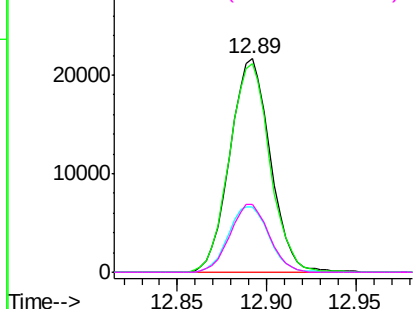
#67
 1,3,5-Trichlorobenzene
 Concen: 9.412 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	34161
Ion	Ratio	Lower Upper
180	100	
182	97.8	77.3 115.9
184	31.1	24.6 36.8
145	30.5	23.0 34.6

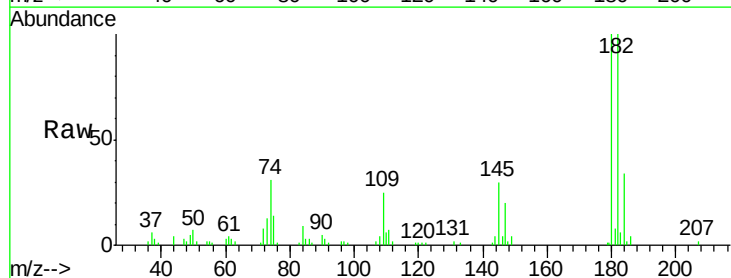


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

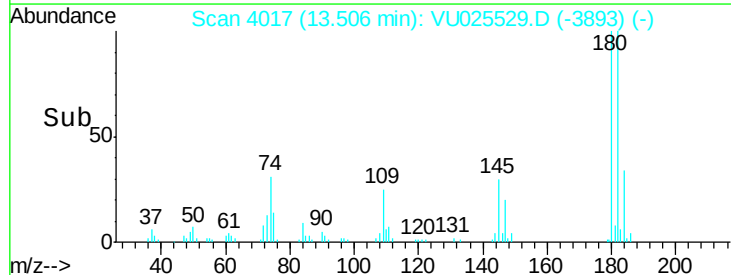
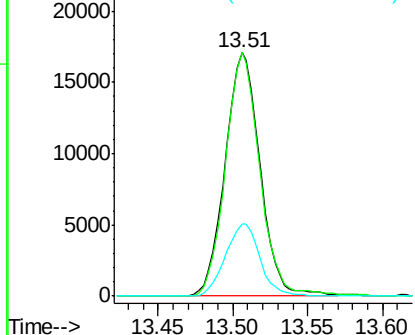


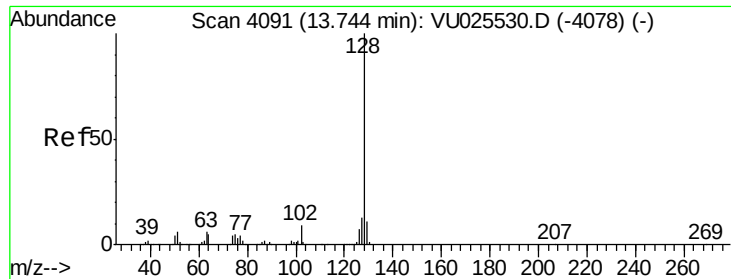
#68
 1,2,4-trichlorobenzene
 Concen: 8.701 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025529.D
 Acq: 20 Jul 2018 09:42

Tgt Ion:180	Resp:	27848
Ion	Ratio	Lower Upper
180	100	
182	97.8	78.1 117.1
145	29.1	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: 7.710 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

Instrument :

MSVOA_U

ClientSampleId :

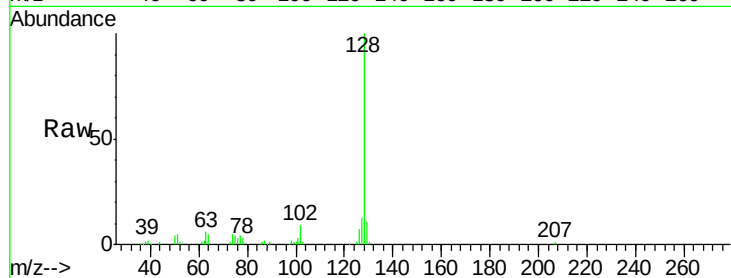
Tot Ion:128 Resp: 82302

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

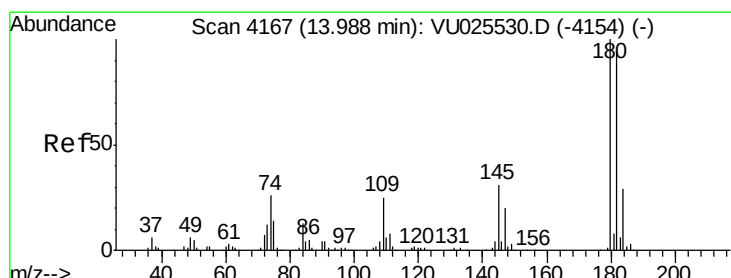
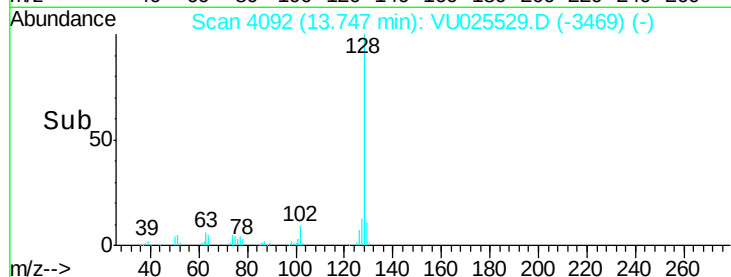
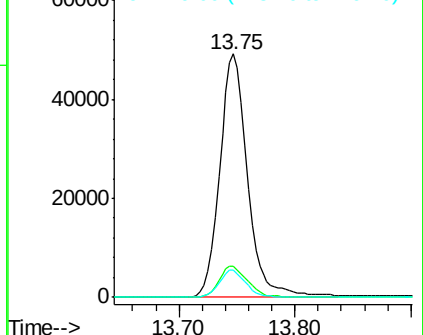
129 10.6 8.4 12.6



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: 8.879 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025529.D

Acq: 20 Jul 2018 09:42

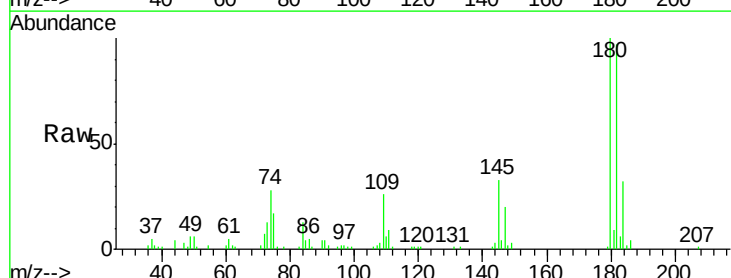
Tgt Ion:180 Resp: 30258

Ion Ratio Lower Upper

180 100

182 97.8 76.6 114.8

145 33.0 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

