

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028111.D
 Acq On : 14 Nov 2018 10:27
 Operator : MD/SY
 Sample : VSTD00145
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 04:06:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 04:03:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	202259	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	186639	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	88054	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	14948	0.89	ug/L	0.00
7) Chloroethane-d5	1.68	69	11891	0.89	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	28212	0.90	ug/L	0.00
20) 2-Butanone-d5	4.22	46	43293	8.89	ug/L	0.01
24) Chloroform-d	4.65	84	23663	0.89	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.32	65	13449	0.90	ug/L	0.00
32) Benzene-d6	5.34	84	48023	0.90	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	18108	0.94	ug/L	0.00
41) Toluene-d8	7.57	98	45355	0.91	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	5597	0.82	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	33630	8.61	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	12040	0.89	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	14072	0.86	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	17124	0.960 ug/L	96
3) Chloromethane	1.33	50	22075	0.968 ug/L	100
5) Vinyl chloride	1.40	62	19917	0.919 ug/L	99
6) Bromomethane	1.63	94	9074	0.874 ug/L	86
8) Chloroethane	1.70	64	12797	0.981 ug/L	97
9) Trichlorofluoromethane	1.89	101	22174	0.938 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	12264	0.924 ug/L	95
12) 1,1-Dichloroethene	2.29	96	12602	0.937 ug/L	98
13) Acetone	2.35	43	32585	9.939 ug/L	99
14) Carbon disulfide	2.48	76	41380	0.918 ug/L	99
15) Methyl Acetate	2.63	43	8567	0.977 ug/L	98
16) Methylene chloride	2.70	84	16077	1.012 ug/L	92
17) Methyl tert-butyl Ether	3.01	73	37285	0.992 ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	13672	0.956 ug/L	98
19) 1,1-Dichloroethane	3.45	63	28165	0.937 ug/L	99
21) 2-Butanone	4.30	43	48767	9.425 ug/L	99
22) cis-1,2-Dichloroethene	4.23	96	14556	0.923 ug/L	99
23) Bromochloromethane	4.55	128	5783	0.928 ug/L	97
25) Chloroform	4.67	83	25251	0.936 ug/L	98
27) 1,2-Dichloroethane	5.41	62	16306	0.920 ug/L	98
29) 1,1,1-Trichloroethane	4.92	97	20095	0.951 ug/L	98
30) Cyclohexane	4.99	56	27363	0.924 ug/L	97
31) Carbon tetrachloride	5.13	117	15591	0.889 ug/L	98
33) Benzene	5.39	78	60248	0.958 ug/L	100
34) Trichloroethene	6.19	95	14373	0.925 ug/L	98
35) Methylcyclohexane	6.41	83	24086	0.902 ug/L	97
37) 1,2-Dichloropropane	6.43	63	16225	0.933 ug/L #	97
38) Bromodichloromethane	6.76	83	17288	0.934 ug/L #	95
39) cis-1,3-Dichloropropene	7.27	75	20761	0.883 ug/L	99
40) 4-Methyl-2-pentanone	7.47	43	112077	9.360 ug/L	99

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

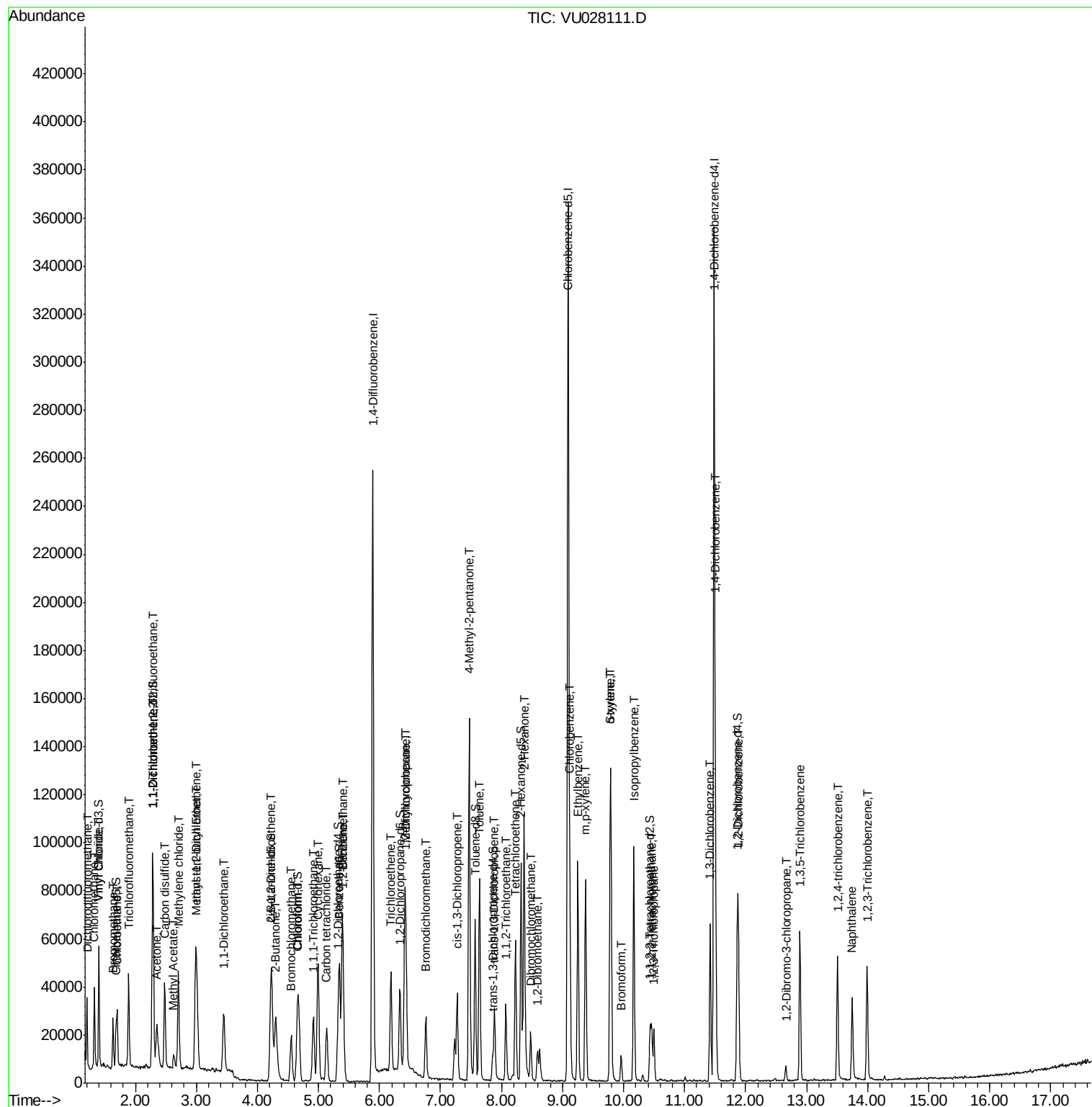
42) Toluene	7.64	91	61249	0.945	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	17002	0.923	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	9707	0.925	ug/L	99
47) Tetrachloroethene	8.23	164	12912	1.022	ug/L	97
48) 2-Hexanone	8.37	43	79284	9.306	ug/L	98
49) Dibromochloromethane	8.48	129	10044	0.899	ug/L	99
50) 1,2-Dibromoethane	8.59	107	9117	0.922	ug/L #	88
51) Chlorobenzene	9.12	112	36905	0.974	ug/L	96
52) Ethylbenzene	9.25	91	64205	0.907	ug/L	97
53) m,p-xylene	9.38	106	24109	0.935	ug/L	95
54) o-xylene	9.78	106	22656	0.913	ug/L	100
55) Styrene	9.79	104	37977	0.905	ug/L	94
56) Isopropylbenzene	10.17	105	62482	0.931	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.46	83	12365	0.914	ug/L	90
59) 1,2,3-Trichloropropane	10.50	75	8745	0.895	ug/L	89
61) Bromoform	9.96	173	5240	0.880	ug/L #	95
62) 1,3-Dichlorobenzene	11.42	146	25829	0.928	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	26484	0.940	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	25529	0.959	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	1694	0.877	ug/L #	77
67) 1,3,5-Trichlorobenzene	12.89	180	19293	0.903	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	16324	0.877	ug/L	99
69) Naphthalene	13.75	128	29490	0.850	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	15797	0.921	ug/L	94

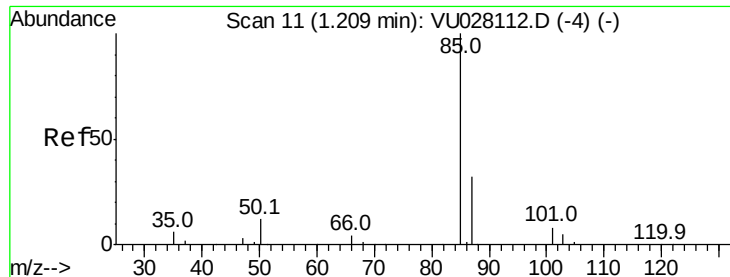
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.960 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

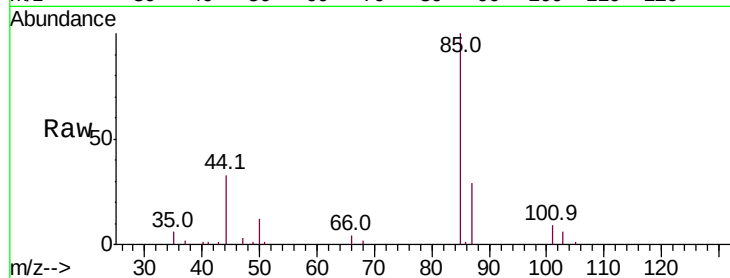
ClientSampleId :

Tot Ion: 85 Resp: 17124

Ion Ratio Lower Upper

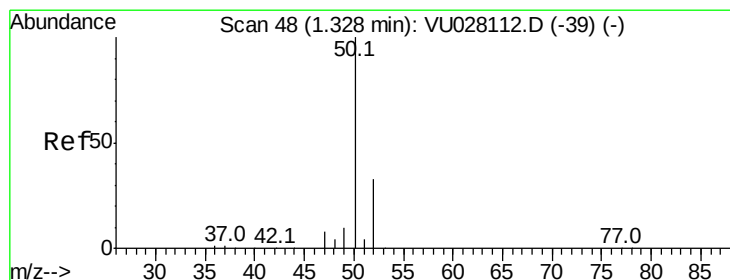
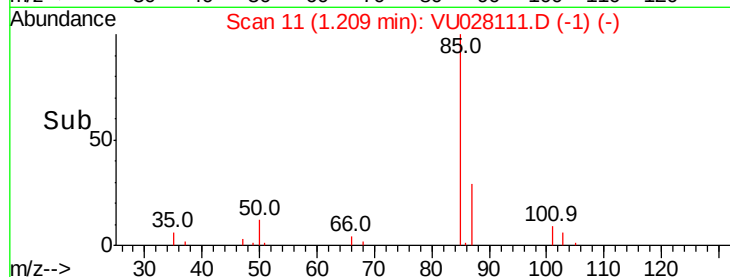
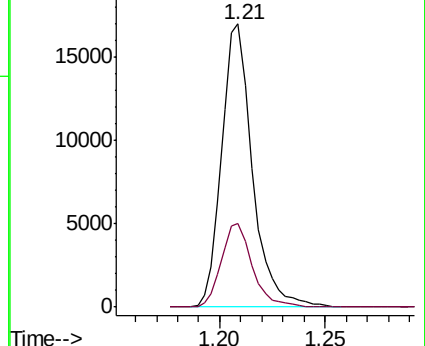
85 100

87 29.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.968 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028111.D

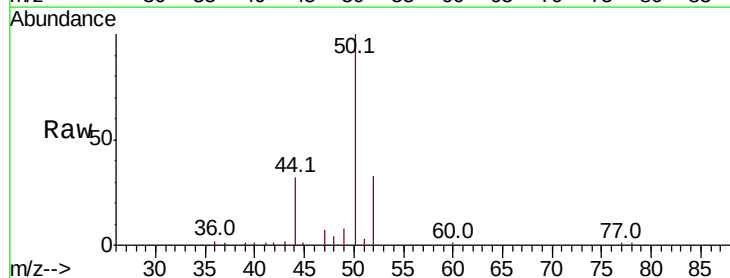
Acq: 14 Nov 2018 10:27

Tgt Ion: 50 Resp: 22075

Ion Ratio Lower Upper

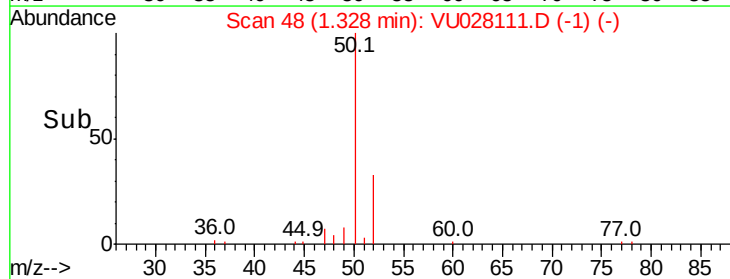
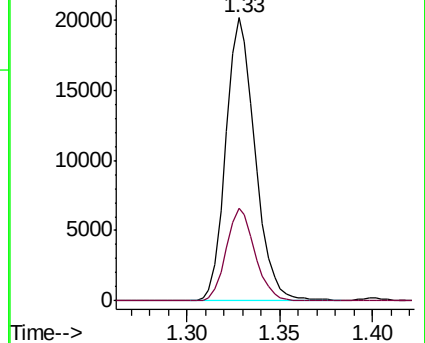
50 100

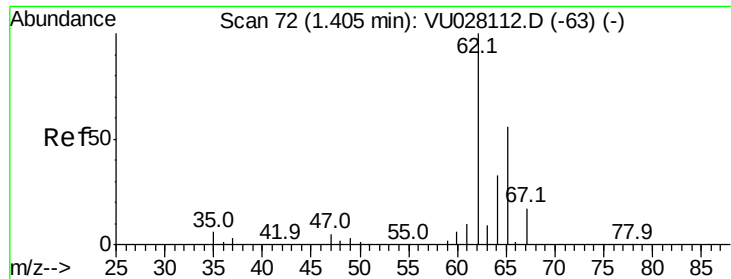
52 32.7 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.919 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

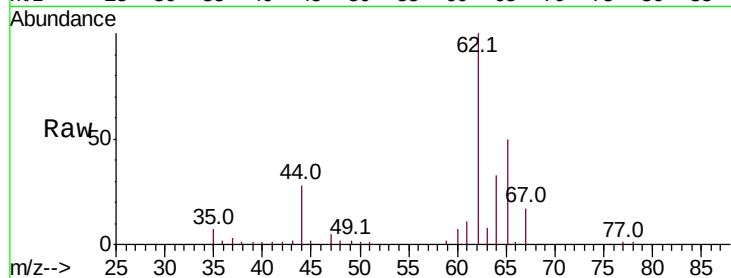
ClientSampleId :

Tot Ion: 62 Resp: 19917

Ion Ratio Lower Upper

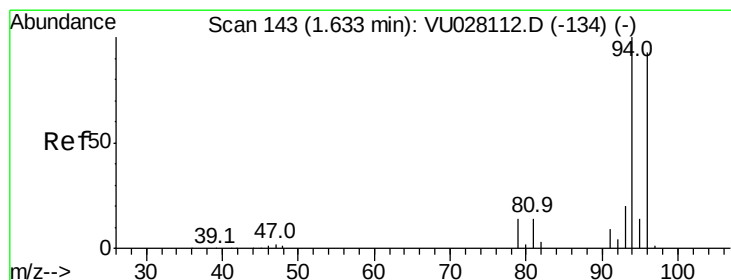
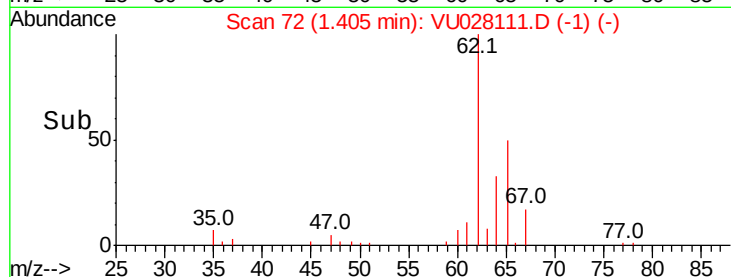
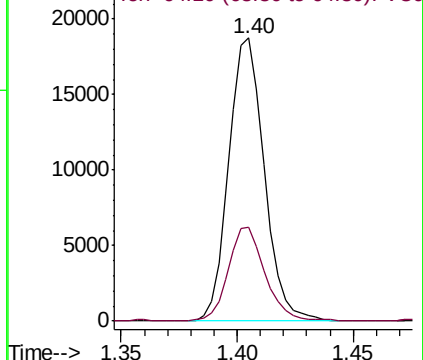
62 100

64 33.1 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.874 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU028111.D

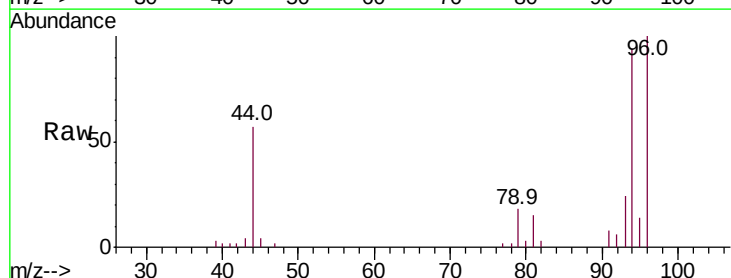
Acq: 14 Nov 2018 10:27

Tgt Ion: 94 Resp: 9074

Ion Ratio Lower Upper

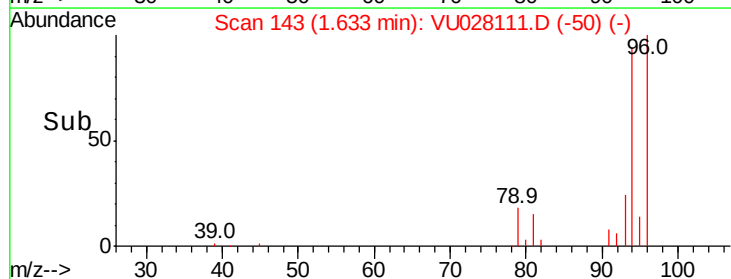
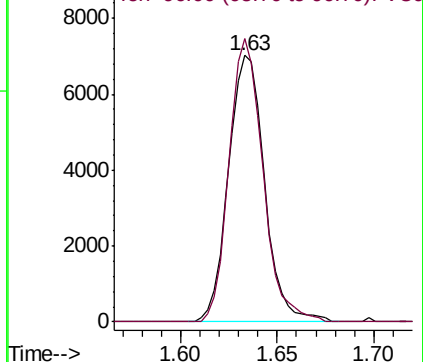
94 100

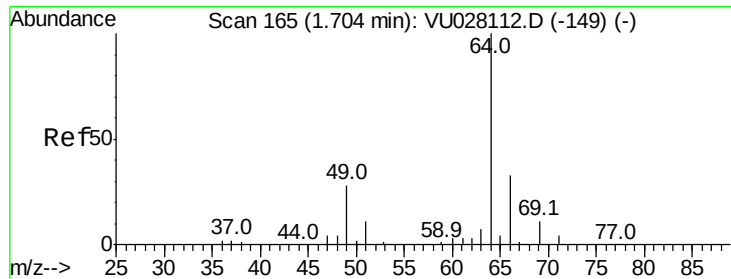
96 106.2 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.981 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

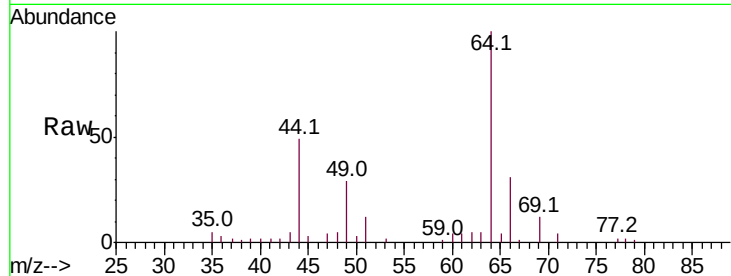
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 64 Resp: 12797

Ion Ratio Lower Upper

64 100

66 31.2 23.1 42.9

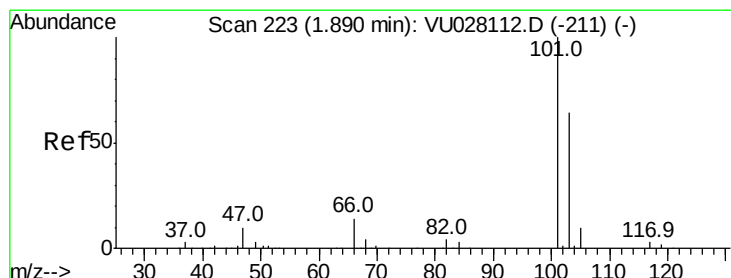
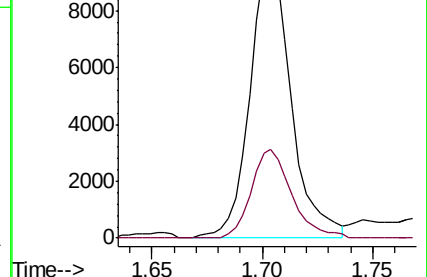
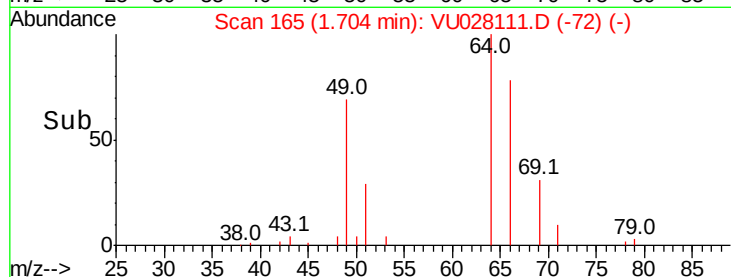


Abundance Ion 64.10 (63.80 to 64.80): VU028111.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VU028111.D (-149) (-)

1.70

1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 0.938 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU028111.D

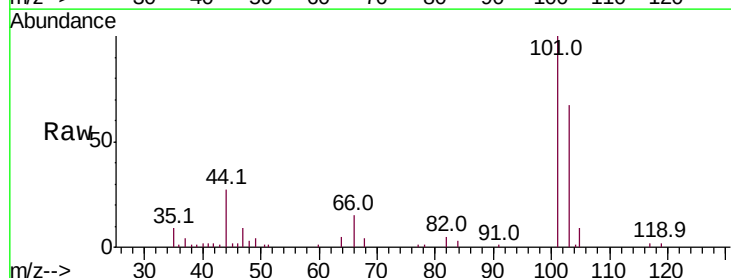
Acq: 14 Nov 2018 10:27

Tgt Ion:101 Resp: 22174

Ion Ratio Lower Upper

101 100

103 63.7 51.2 76.8

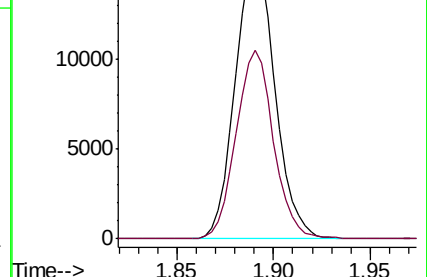
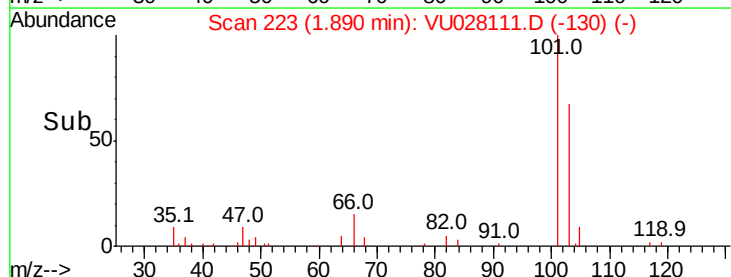


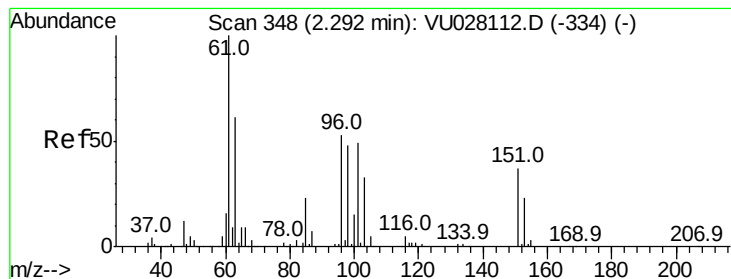
Abundance Ion 101.00 (100.70 to 101.70): VU028111.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028111.D (-211) (-)

1.89

1.85 1.90 1.95





#10

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

Concen: 0.924 ug/L

RT: 2.29 min Scan# 348

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

ClientSampled :

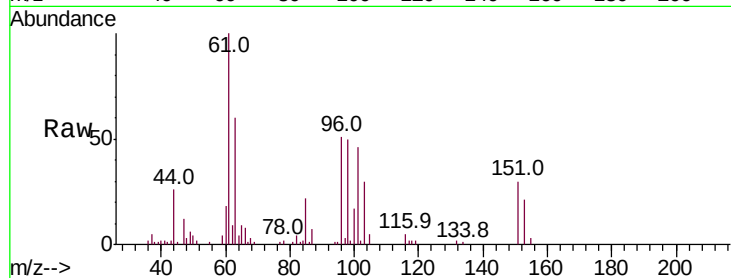
Tot Ion:101 Resp: 12264

Ion Ratio Lower Upper

101 100

85 44.2 37.6 56.4

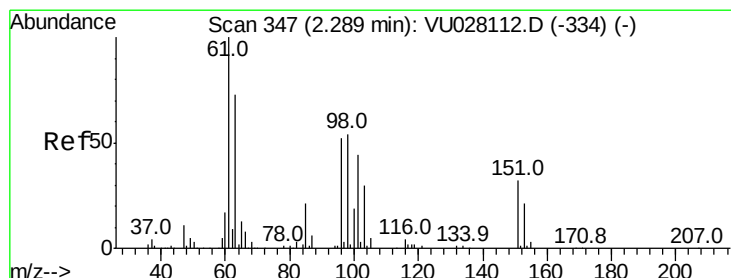
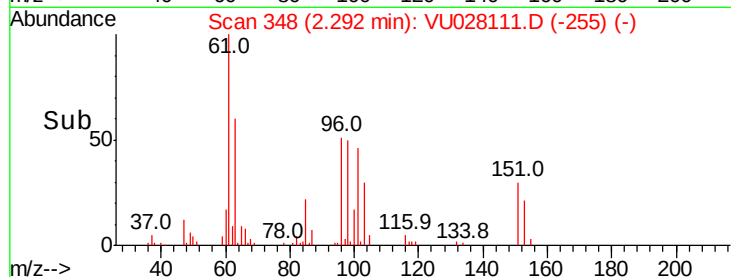
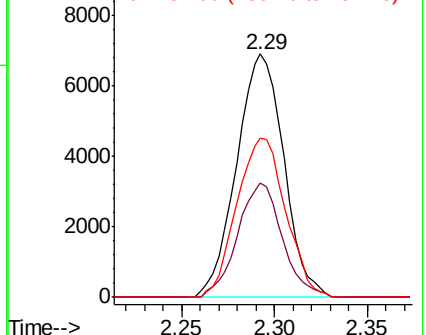
151 67.6 58.2 87.2



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: 0.937 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

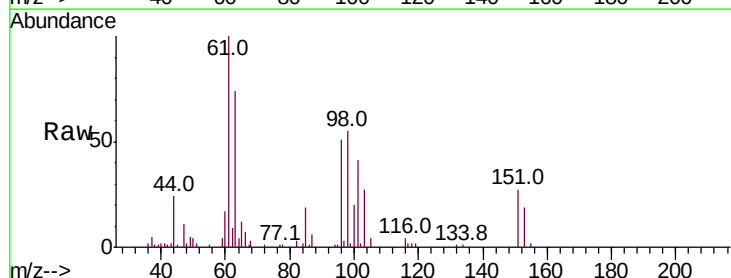
Tgt Ion: 96 Resp: 12602

Ion Ratio Lower Upper

96 100

61 196.1 134.8 250.3

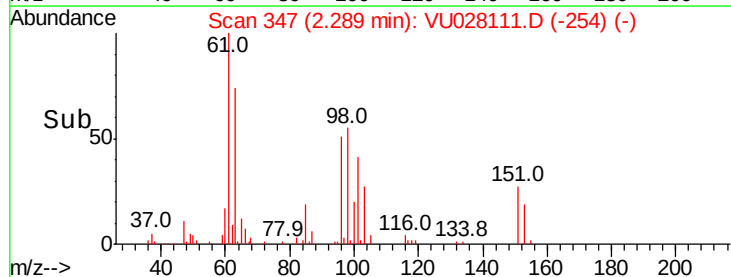
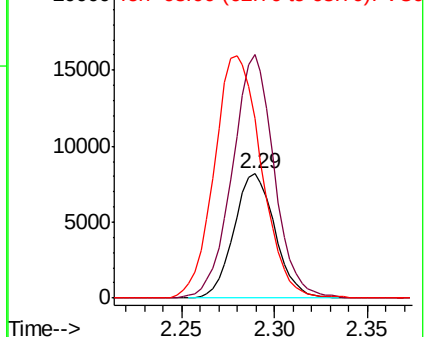
63 144.2 100.1 185.9

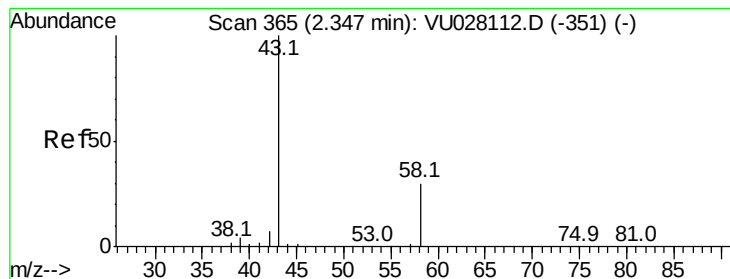


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.939 ug/L

RT: 2.35 min Scan# 367

Delta R.T. 0.01 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

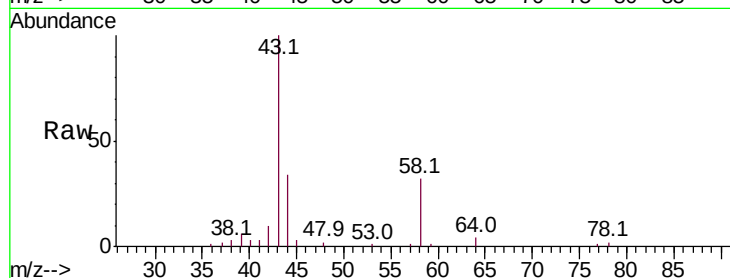
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 32585

Ion Ratio Lower Upper

43 100

58 31.3 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU028111.D (-272) (-)

Ion 58.05 (57.75 to 58.75): VU028111.D (-272) (-)

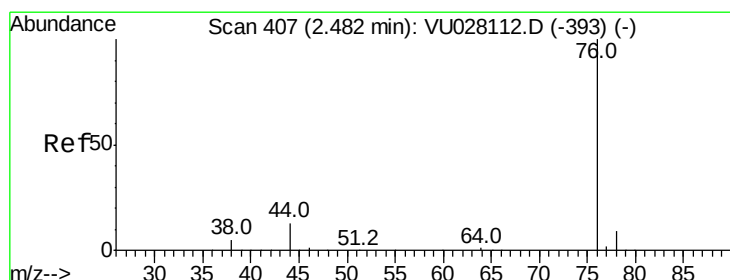
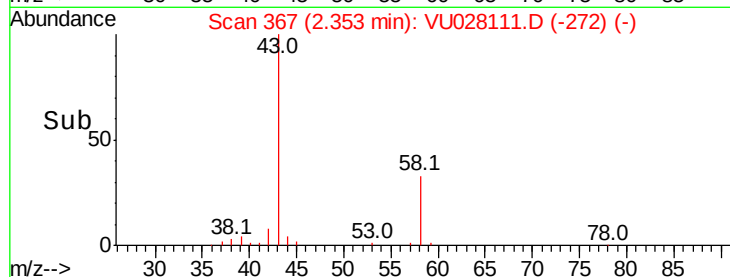
2.35

10000

5000

0

Time-->



#14

Carbon disulfide

Concen: 0.918 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU028111.D

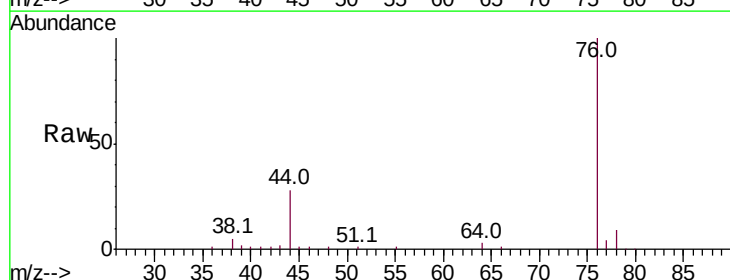
Acq: 14 Nov 2018 10:27

Tgt Ion: 76 Resp: 41380

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU028111.D (-314) (-)

Ion 78.00 (77.70 to 78.70): VU028111.D (-314) (-)

2.48

30000

25000

20000

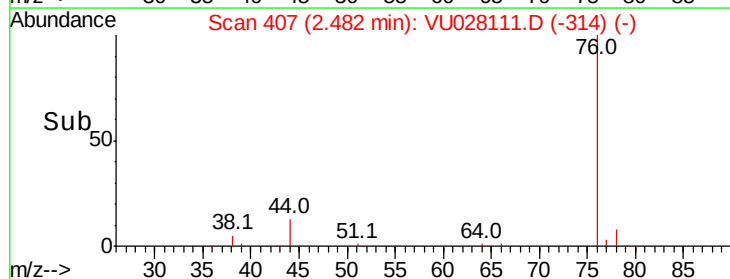
15000

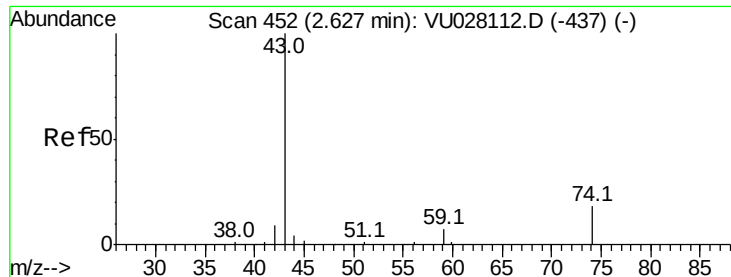
10000

5000

0

Time-->

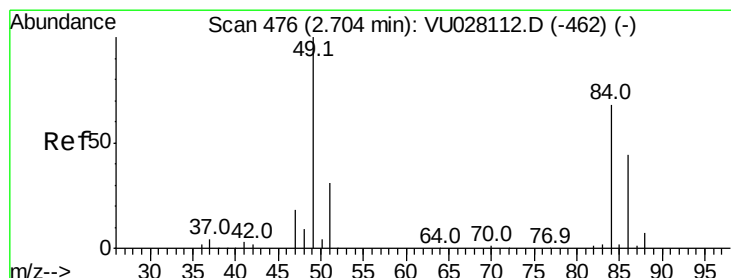
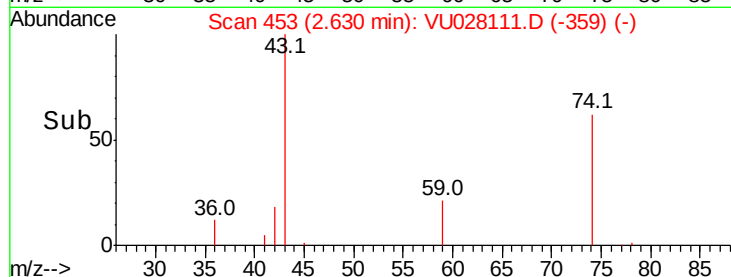
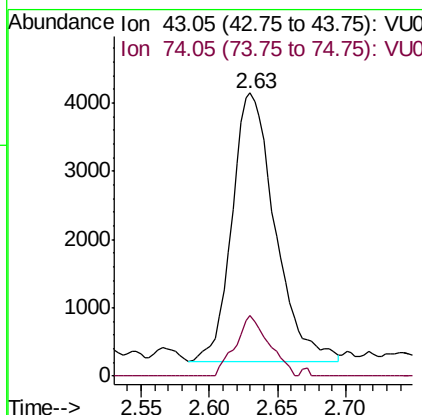
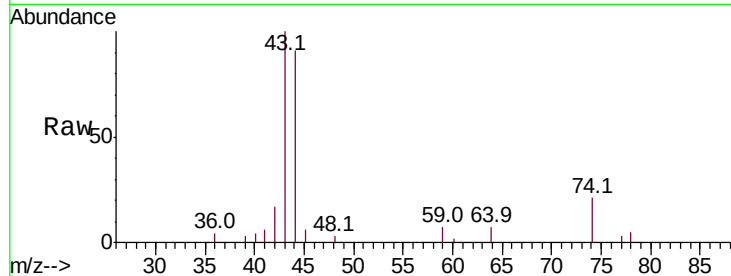




#15
Methvl Acetate
Concen: 0.977 ug/L
RT: 2.63 min Scan# 453
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

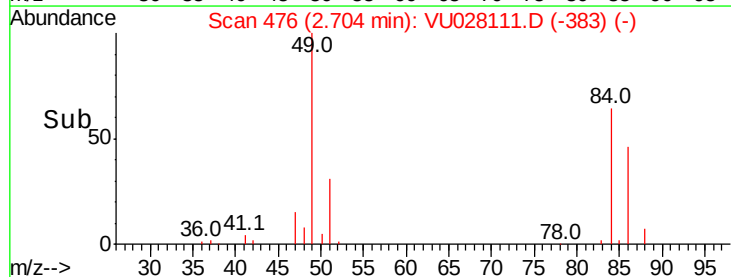
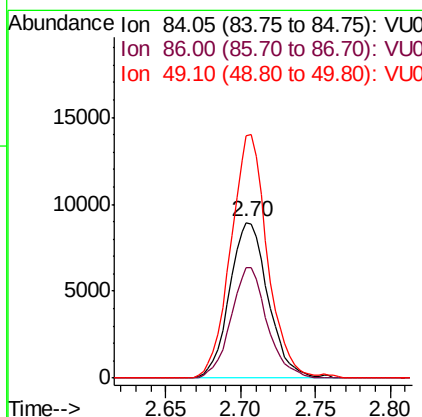
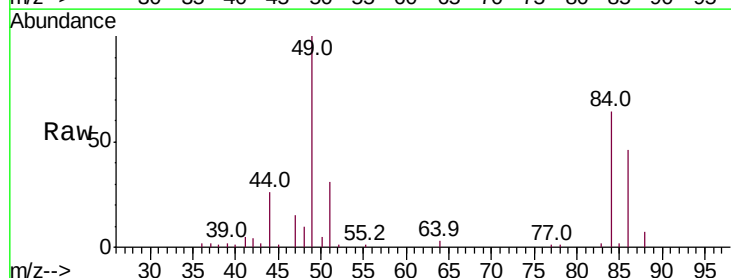
Instrument :
MSVOA_U
ClientSampleId :

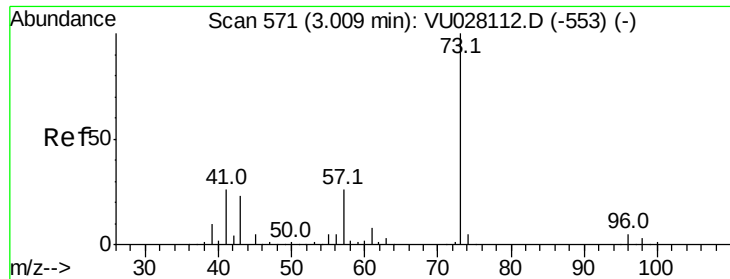
Tot Ion: 43 Resp: 8567
Ion Ratio Lower Upper
43 100
74 17.6 14.9 22.3



#16
Methylene chloride
Concen: 1.012 ug/L
RT: 2.70 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion: 84 Resp: 16077
Ion Ratio Lower Upper
84 100
86 71.0 44.6 82.8
49 155.8 102.5 190.3

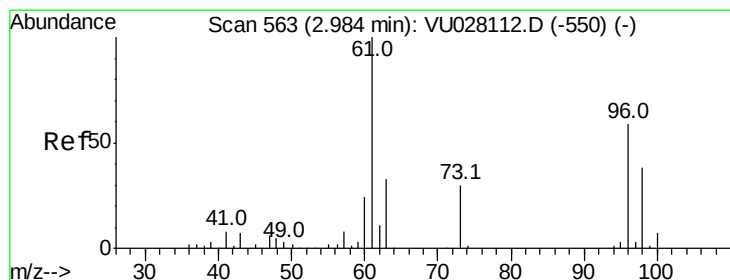
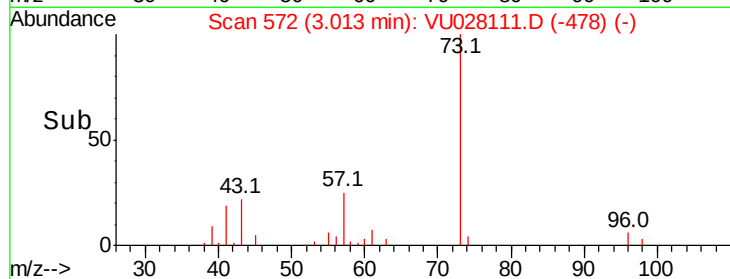
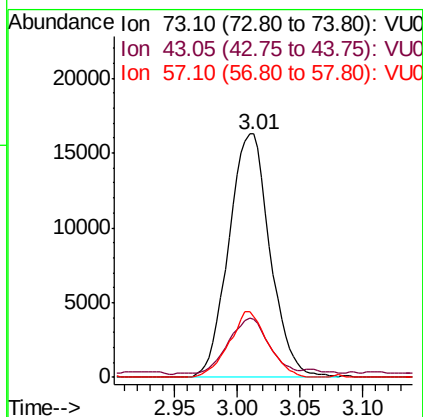
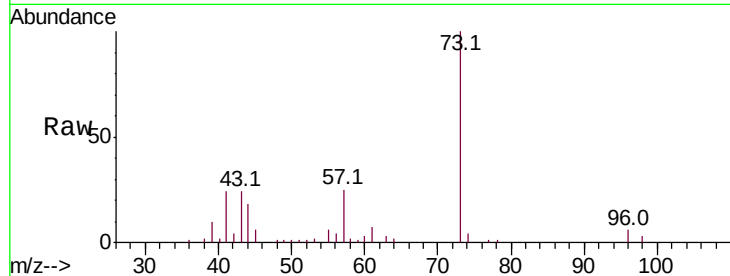




#17
Methyl tert-butyl Ether
Concen: 0.992 ug/L
RT: 3.01 min Scan# 572
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

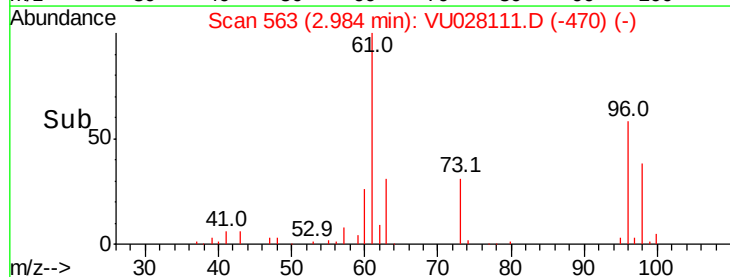
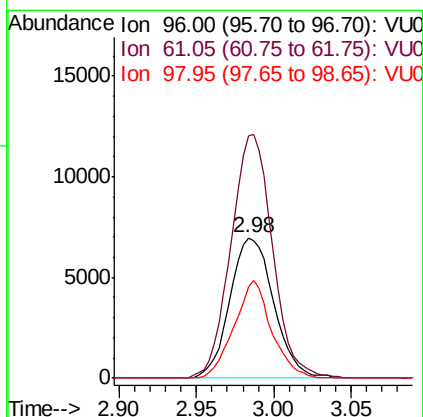
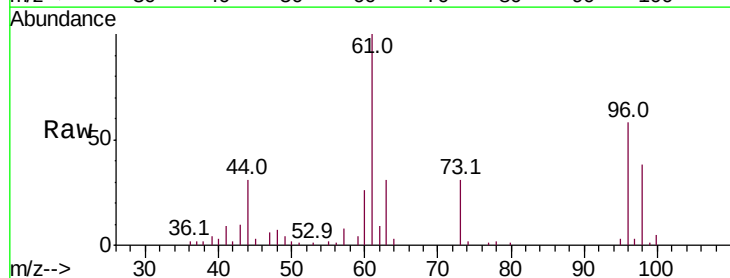
Instrument :
MSVOA_U
ClientSampleId :

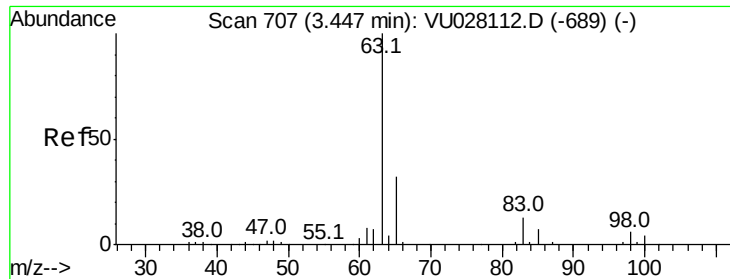
Tot Ion: 73 Resp: 37285
Ion Ratio Lower Upper
73 100
43 21.5 18.1 27.1
57 25.2 20.0 30.0



#18
trans-1,2-Dichloroethene
Concen: 0.956 ug/L
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion: 96 Resp: 13672
Ion Ratio Lower Upper
96 100
61 172.8 118.5 220.1
98 64.9 44.9 83.5





#19

1,1-Dichloroethane

Concen: 0.937 ug/L

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

ClientSampleId :

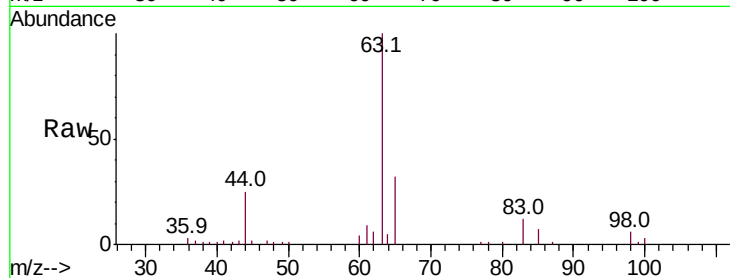
Tot Ion: 63 Resp: 28165

Ion Ratio Lower Upper

63 100

65 32.1 22.2 41.2

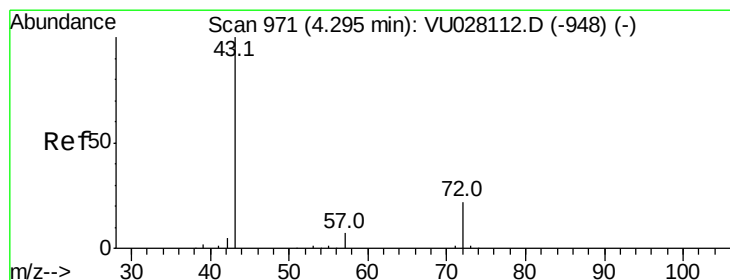
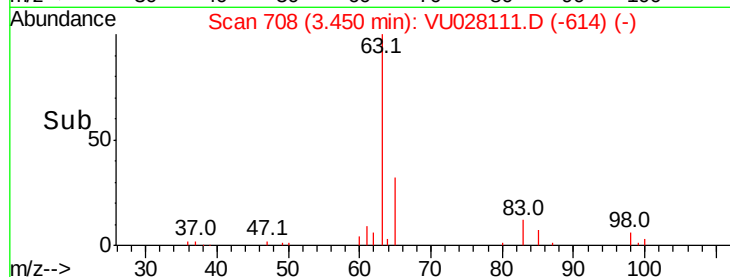
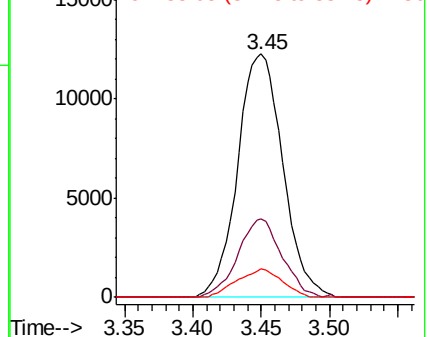
83 11.6 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 9.425 ug/L

RT: 4.30 min Scan# 972

Delta R.T. 0.00 min

Lab File: VU028111.D

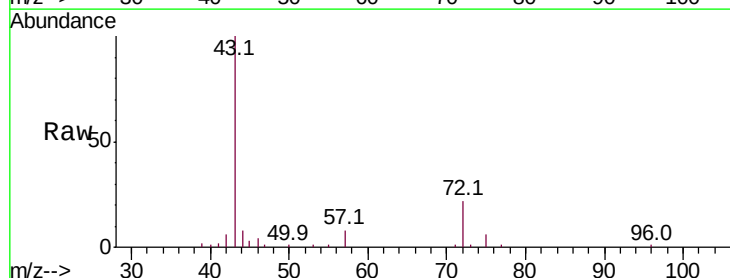
Acq: 14 Nov 2018 10:27

Tgt Ion: 43 Resp: 48767

Ion Ratio Lower Upper

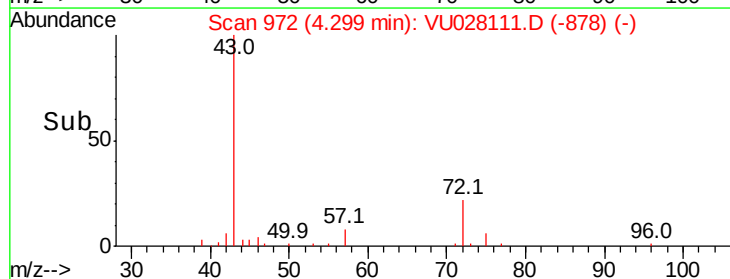
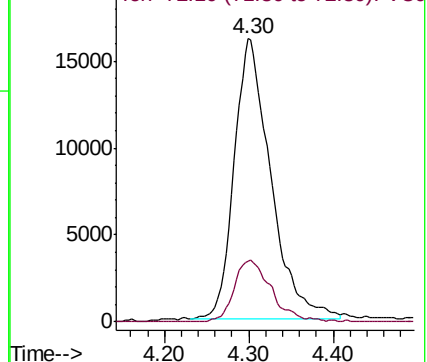
43 100

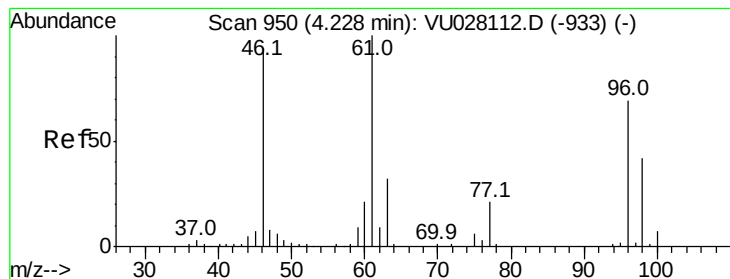
72 22.3 11.0 33.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



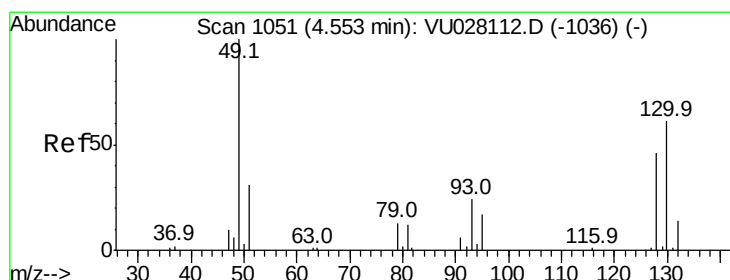
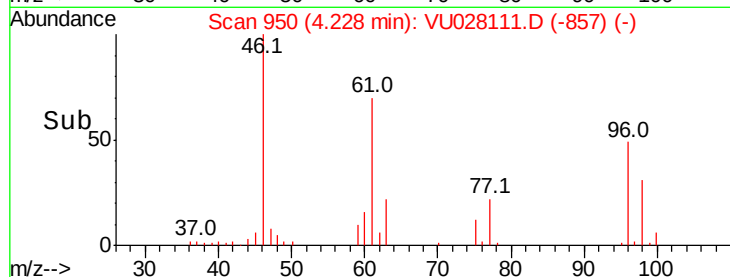
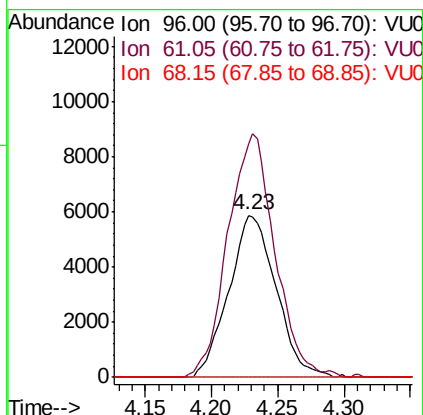
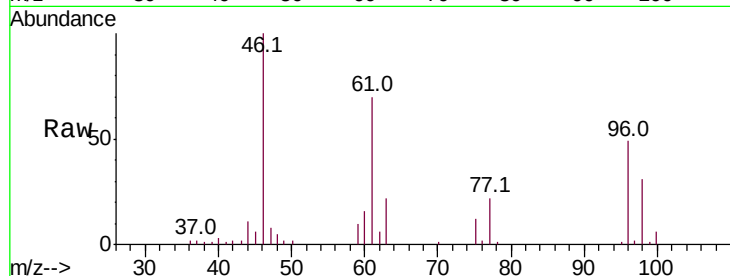


#22

cis-1,2-Dichloroethene
Concen: 0.923 ug/L
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Instrument :
MSVOA_U
ClientSampleId :

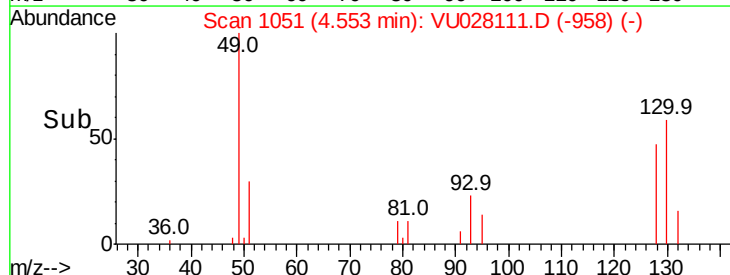
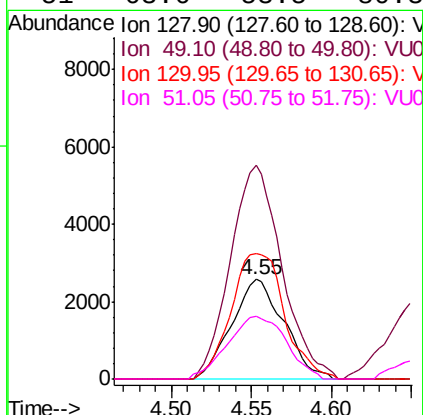
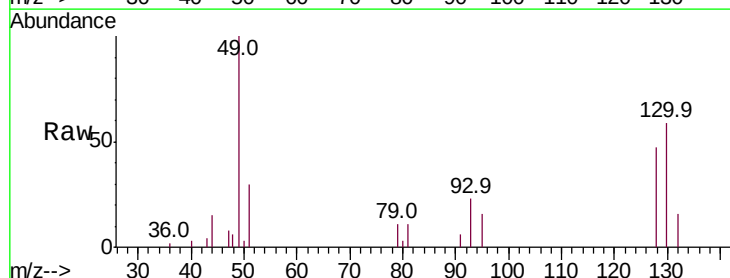
Tot Ion: 96 Resp: 14556
Ion Ratio Lower Upper
96 100
61 143.5 101.8 189.0
68 0.0 0.0 0.0

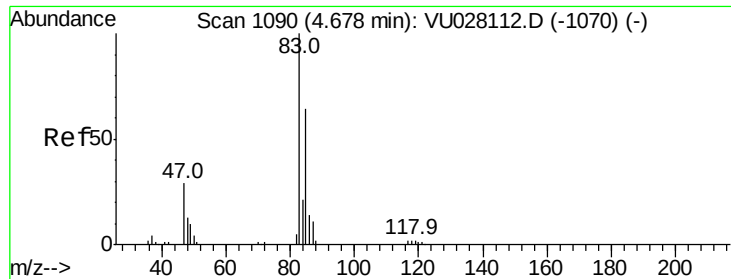


#23

Bromochloromethane
Concen: 0.928 ug/L
RT: 4.55 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion: 128 Resp: 5783
Ion Ratio Lower Upper
128 100
49 214.7 152.2 282.6
130 126.5 93.2 173.0
51 63.6 53.5 80.3

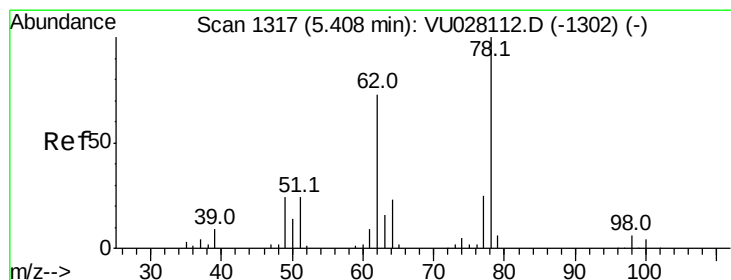
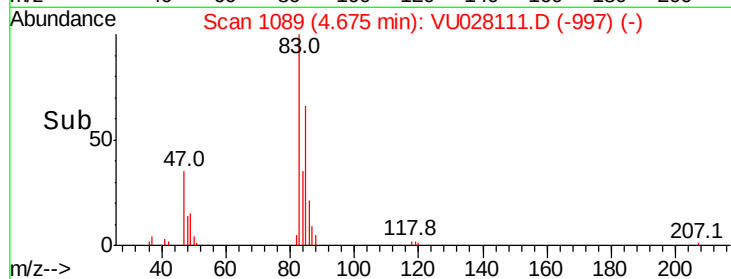
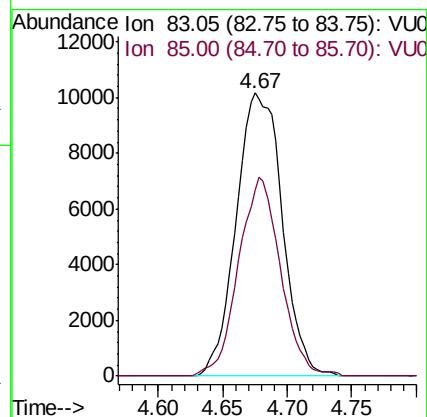
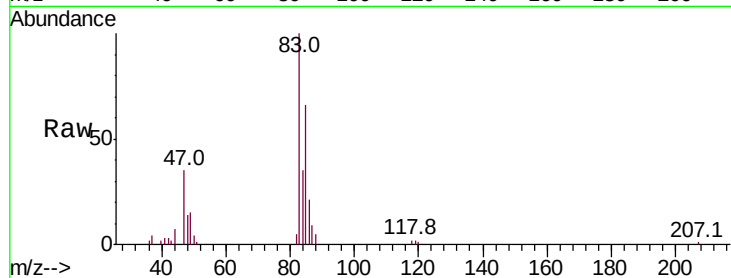




#25
Chloroform
Concen: 0.936 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

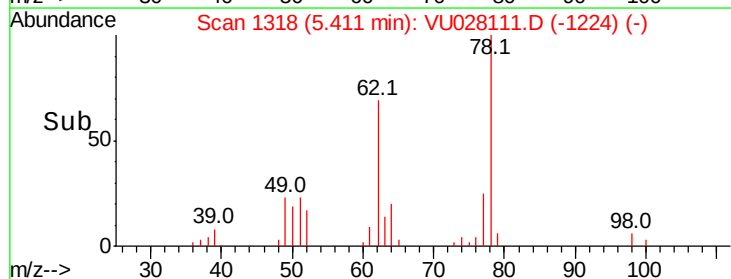
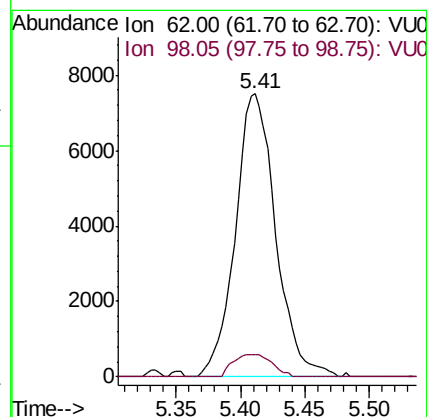
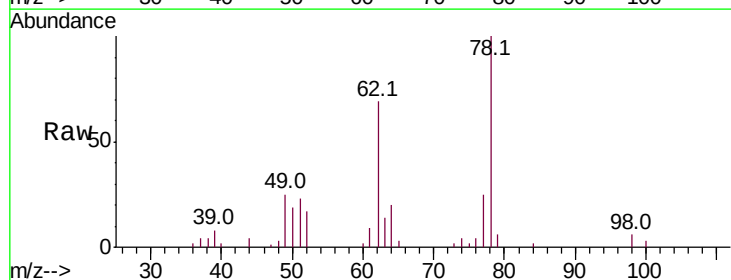
Instrument :
MSVOA_U
ClientSampleId :

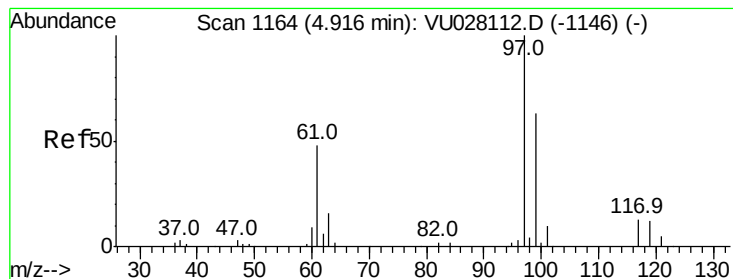
Tot Ion: 83 Resp: 25251
Ion Ratio Lower Upper
83 100
85 66.0 45.0 83.6



#27
1,2-Dichloroethane
Concen: 0.920 ug/L
RT: 5.41 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion: 62 Resp: 16306
Ion Ratio Lower Upper
62 100
98 8.1 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 0.951 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

ClientSampleId :

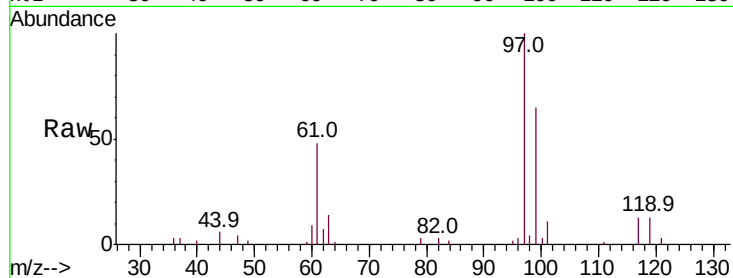
Tot Ion: 97 Resp: 20095

Ion Ratio Lower Upper

97 100

99 61.6 51.2 76.8

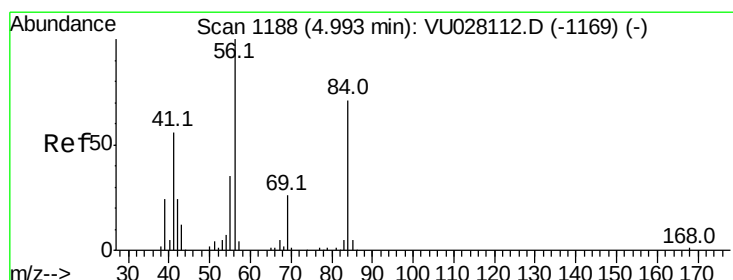
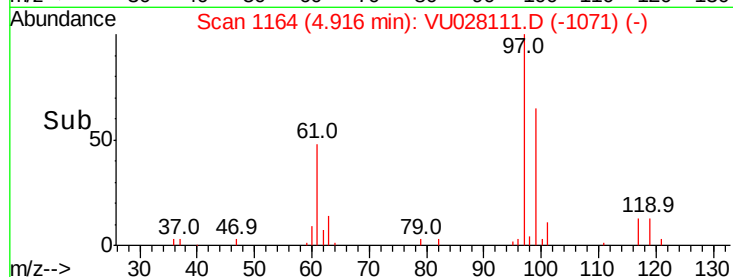
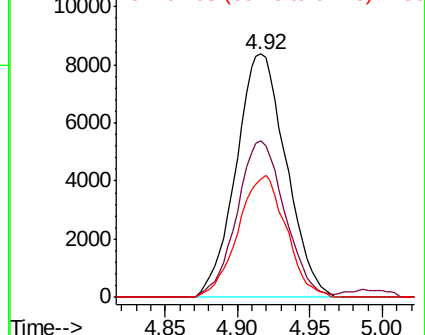
61 48.1 39.4 59.2



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 0.924 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

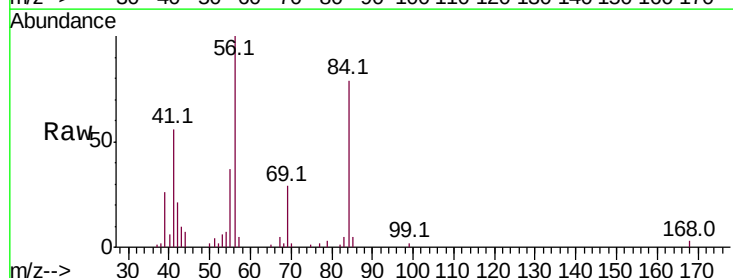
Tgt Ion: 56 Resp: 27363

Ion Ratio Lower Upper

56 100

69 26.6 22.6 33.8

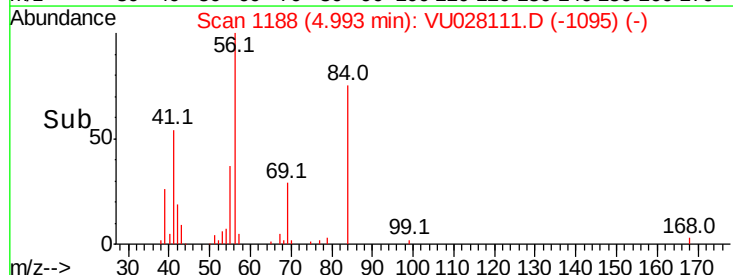
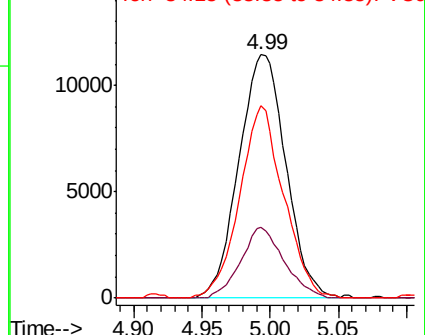
84 74.1 57.7 86.5

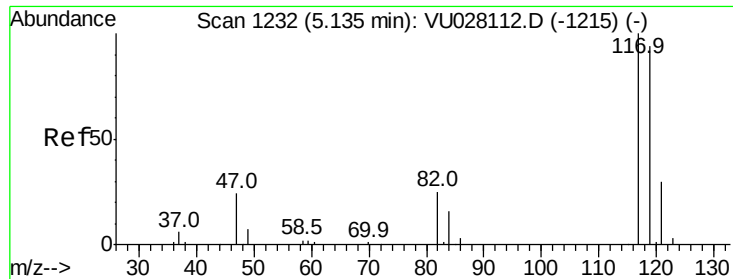


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

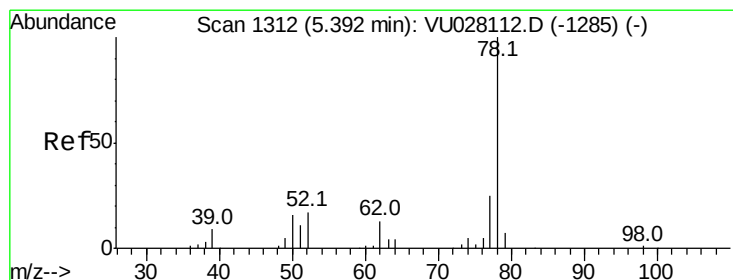
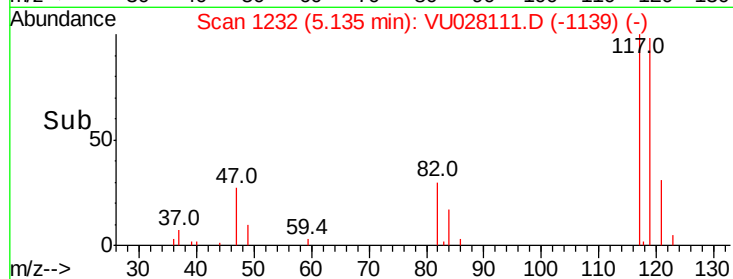
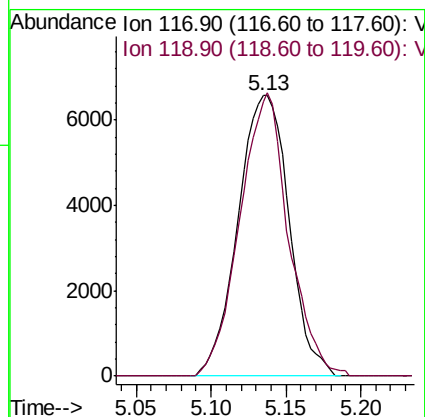
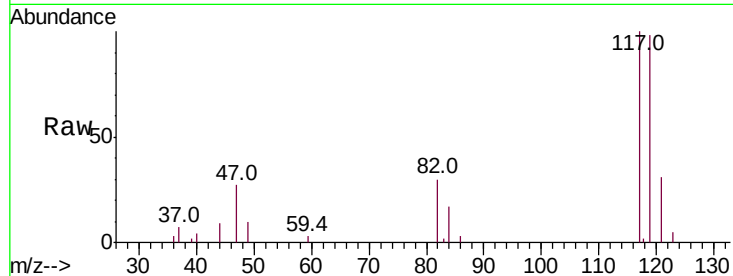




#31
Carbon tetrachloride
Concen: 0.889 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

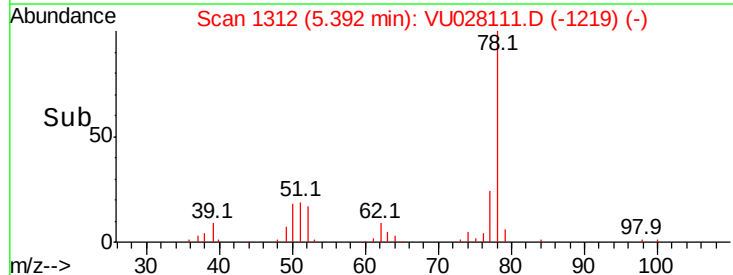
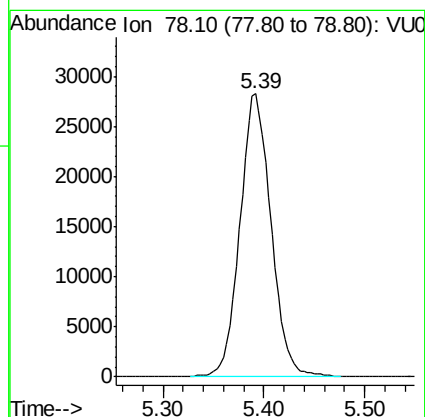
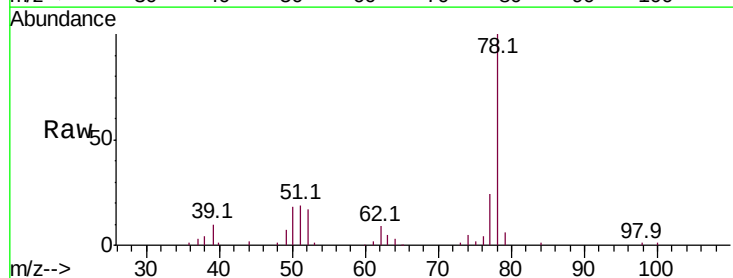
Instrument :
MSVOA_U
ClientSampleId :

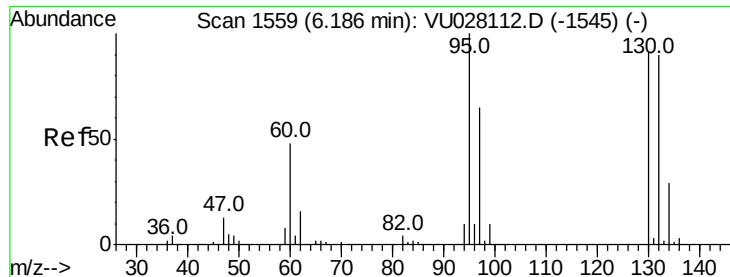
Tot Ion:117 Resp: 15591
Ion Ratio Lower Upper
117 100
119 96.3 75.7 113.5



#33
Benzene
Concen: 0.958 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion: 78 Resp: 60248





#34

Trichloroethene

Concen: 0.925 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 14373

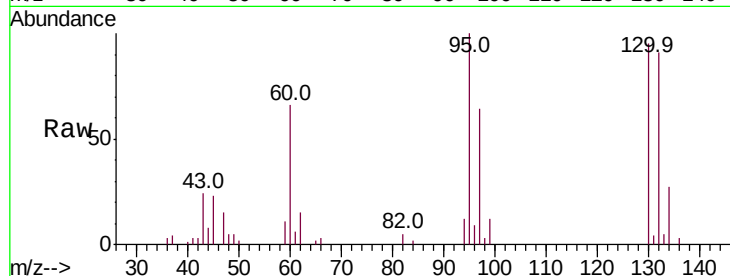
Ion Ratio Lower Upper

95 100

97 64.2 45.3 84.1

132 90.9 63.0 117.0

130 95.1 63.6 118.2

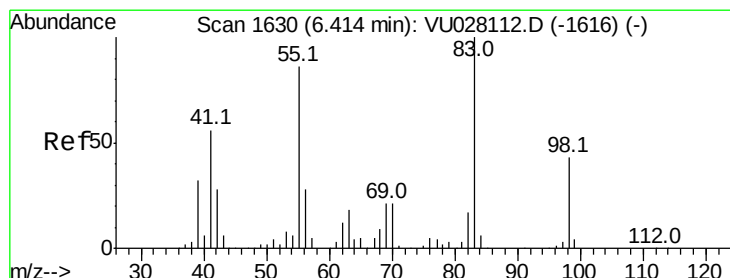
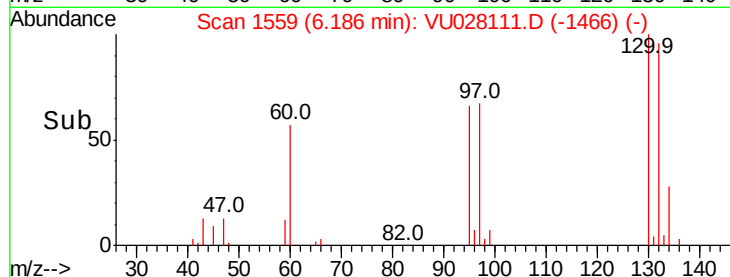
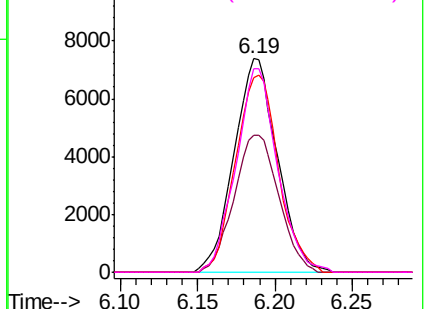


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.902 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

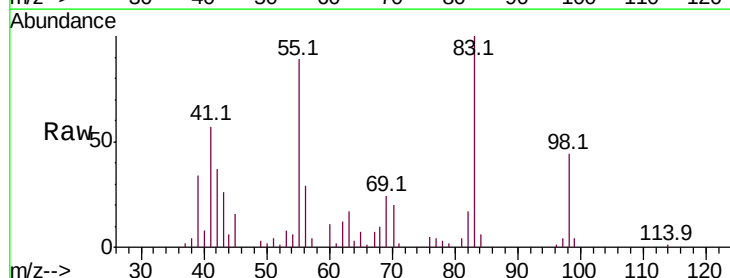
Tgt Ion: 83 Resp: 24086

Ion Ratio Lower Upper

83 100

55 89.7 69.0 103.4

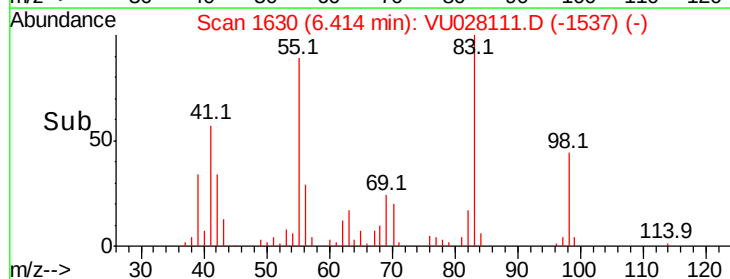
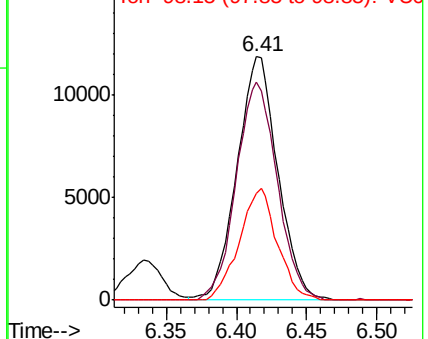
98 42.5 33.3 49.9

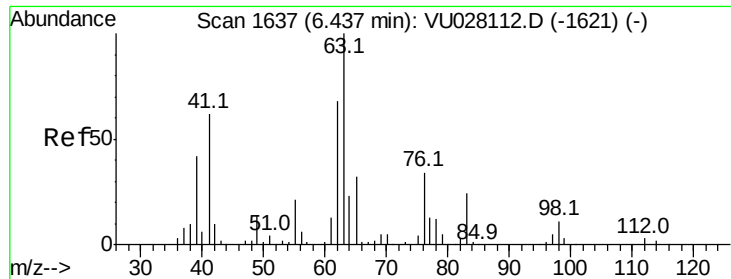


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.933 ug/L

RT: 6.43 min Scan# 1636

Delta R.T. -0.00 min

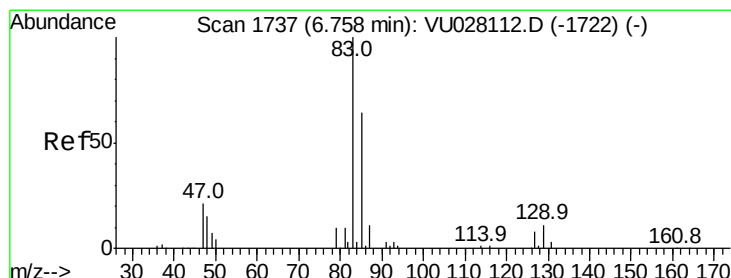
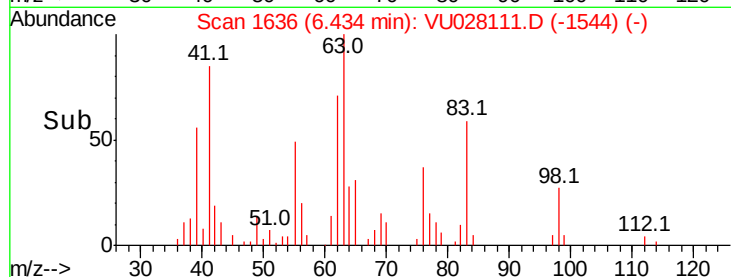
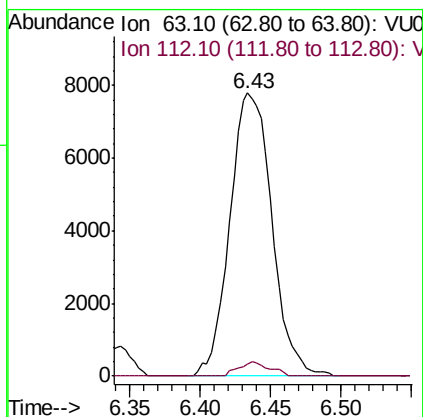
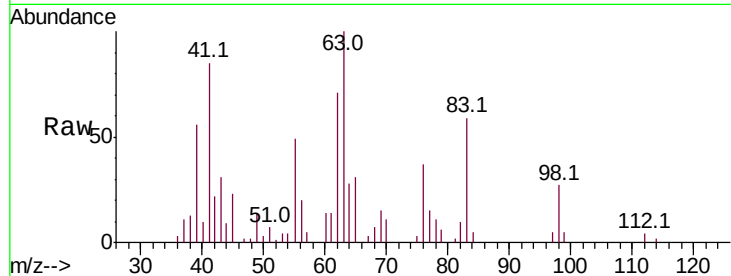
Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 63 Resp: 16225

Ion	Ratio	Lower	Upper
63	100		
112	3.7	2.2	3.4#



#38

Bromodichloromethane

Concen: 0.934 ug/L

RT: 6.76 min Scan# 1737

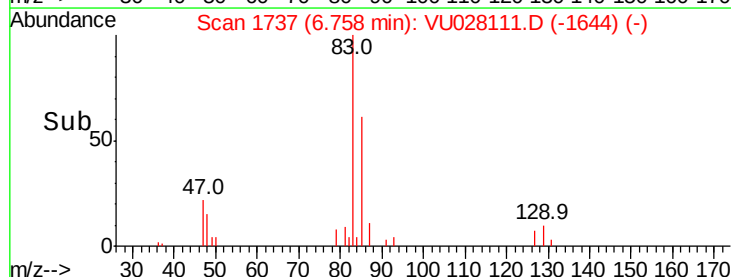
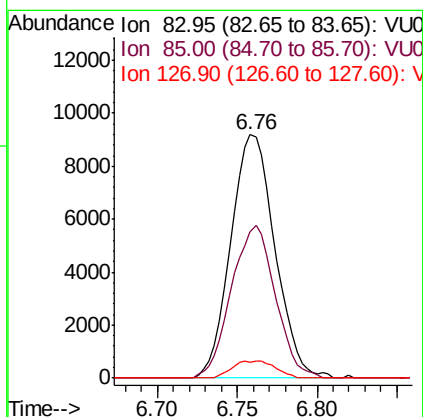
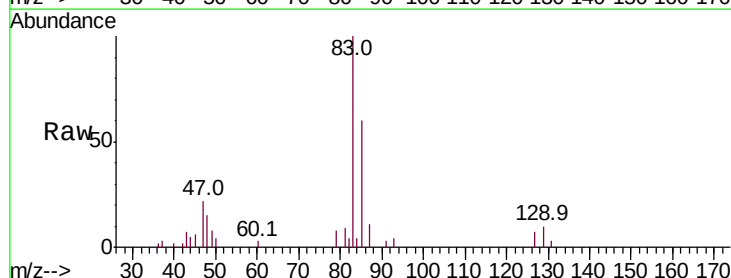
Delta R.T. -0.00 min

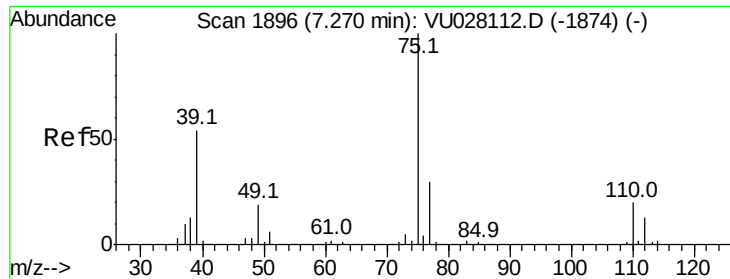
Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Tgt Ion: 83 Resp: 17288

Ion	Ratio	Lower	Upper
83	100		
85	60.1	44.5	82.7
127	6.7	6.8	10.2#

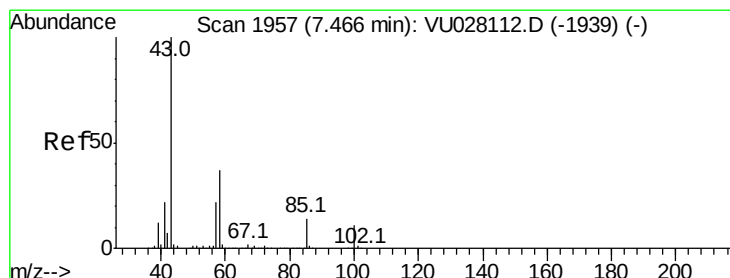
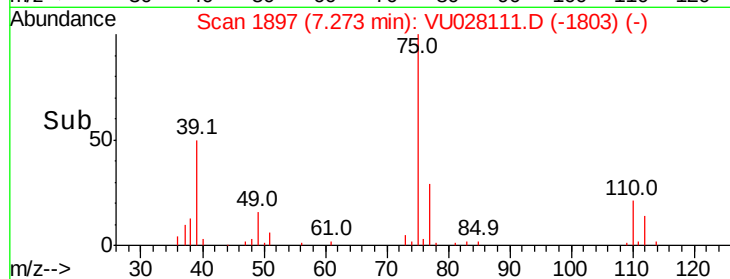
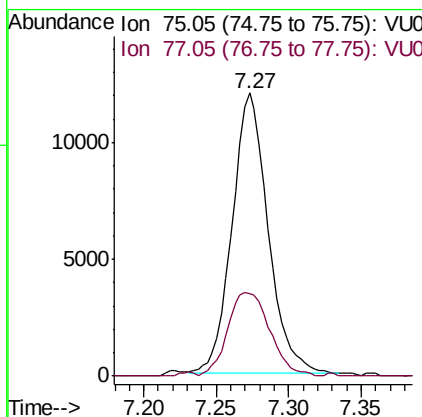
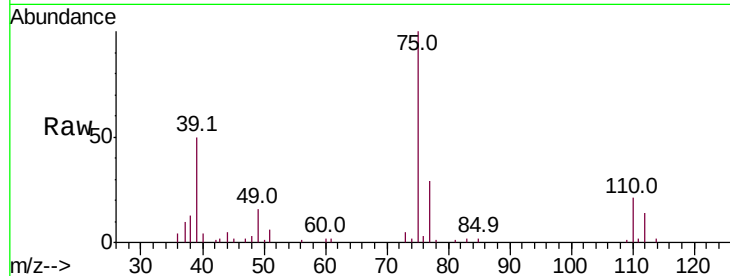




#39
 cis-1,3-Dichloropropene
 Concen: 0.883 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

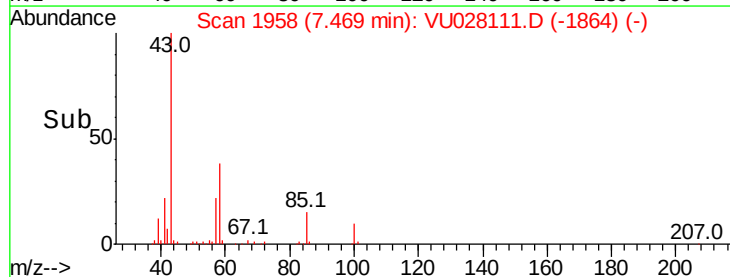
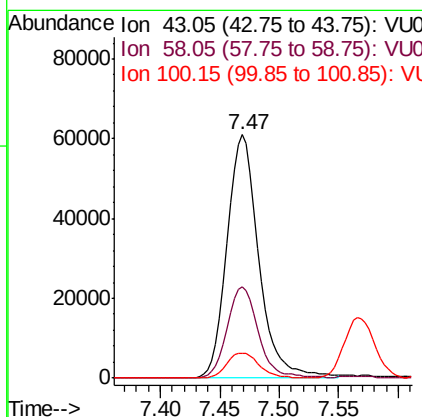
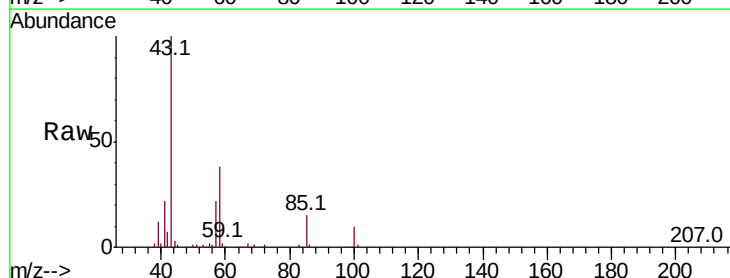
Instrument :
 MSVOA_U
 ClientSampled :

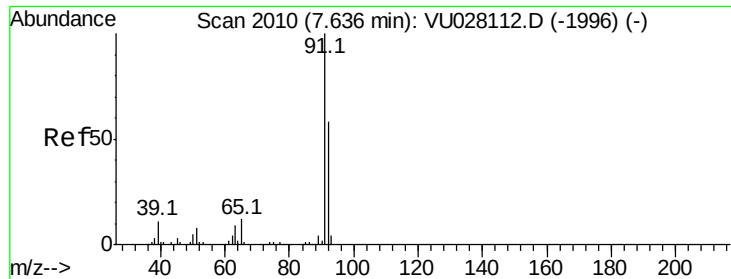
Tot Ion: 75 Resp: 20761
 Ion Ratio Lower Upper
 75 100
 77 29.3 20.9 38.9



#40
 4-Methyl-2-pentanone
 Concen: 9.360 ug/L
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Tgt Ion: 43 Resp: 112077
 Ion Ratio Lower Upper
 43 100
 58 37.3 29.9 44.9
 100 10.8 9.1 13.7





#42

Toluene

Concen: 0.945 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

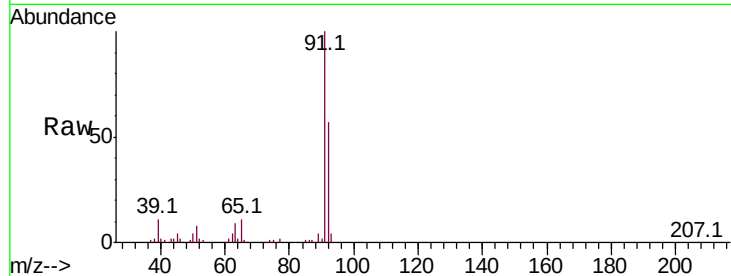
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 61249

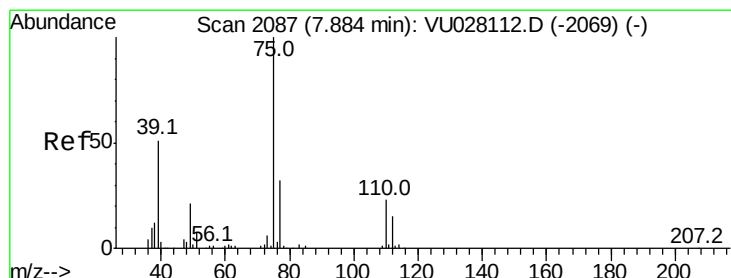
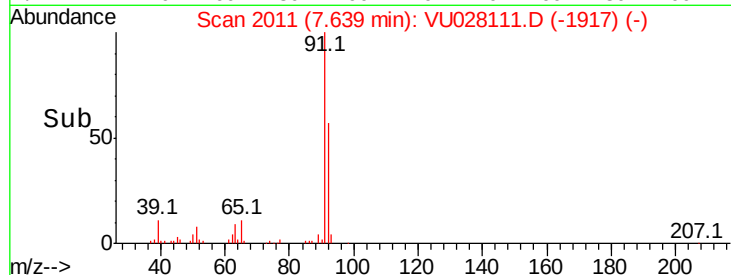
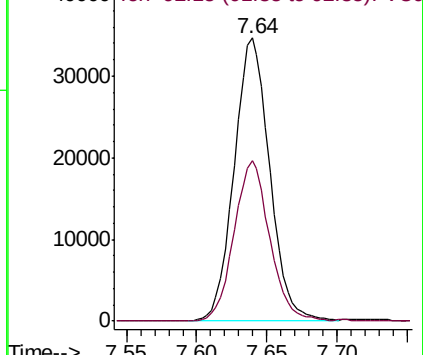
Ion Ratio Lower Upper

91 100

92 56.7 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.923 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU028111.D

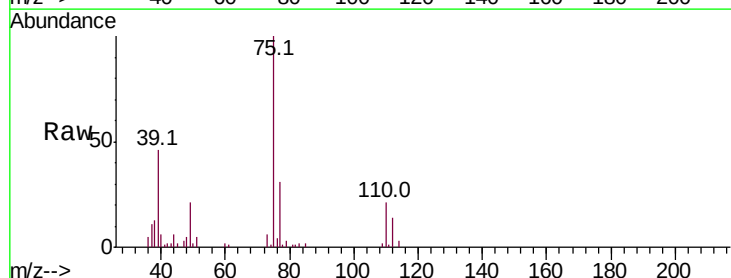
Acq: 14 Nov 2018 10:27

Tgt Ion: 75 Resp: 17002

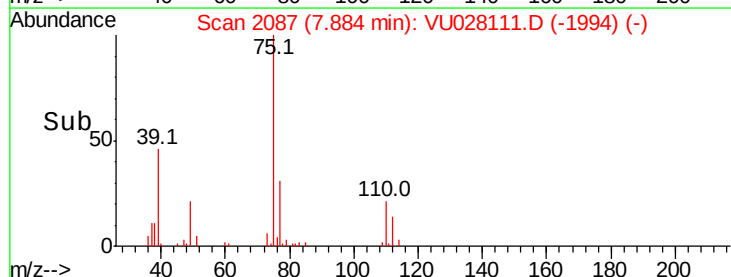
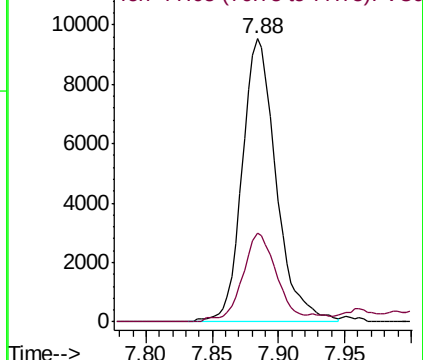
Ion Ratio Lower Upper

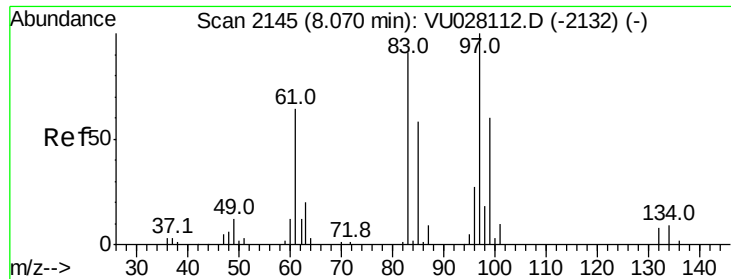
75 100

77 31.2 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0

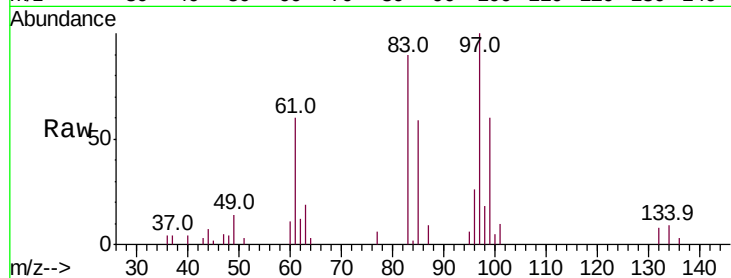




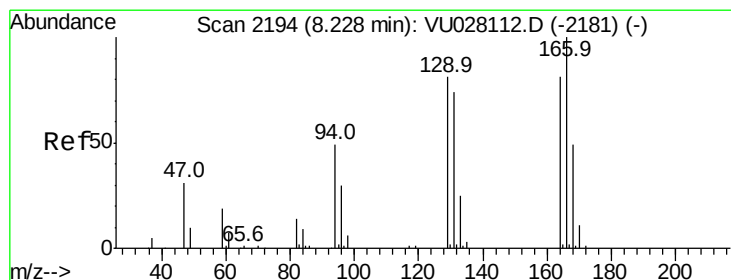
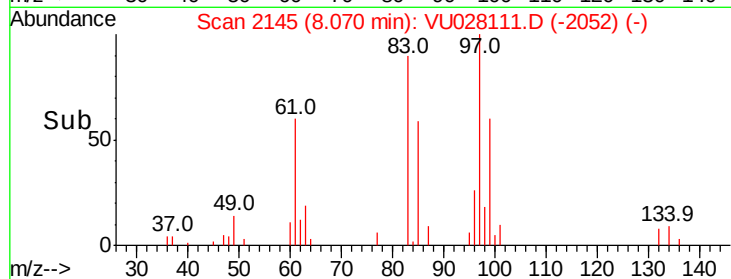
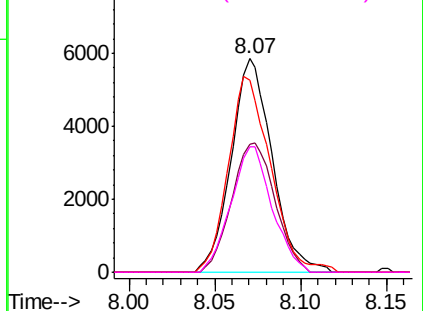
#45
 1,1,2-Trichloroethane
 Concen: 0.925 ug/L
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	9707
Ion	Ratio	Lower	Upper
97	100		
99	60.2	42.1	78.1
83	90.0	63.7	118.3
85	59.0	40.6	75.4

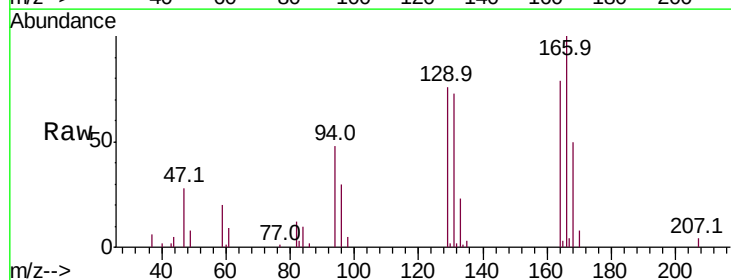


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

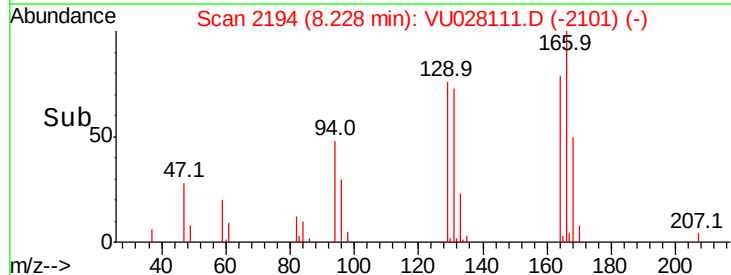
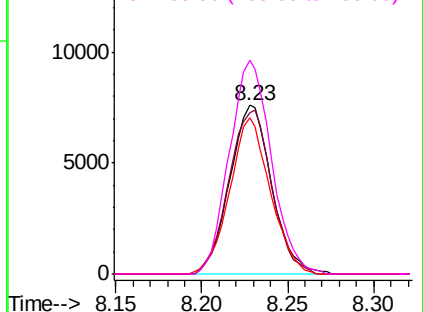


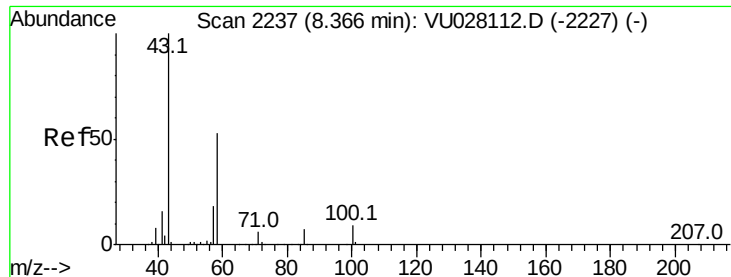
#47
 Tetrachloroethene
 Concen: 1.022 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Tgt Ion:	164	Resp:	12912
Ion	Ratio	Lower	Upper
164	100		
129	95.8	69.7	129.4
131	93.0	64.0	118.8
166	126.8	86.4	160.4



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

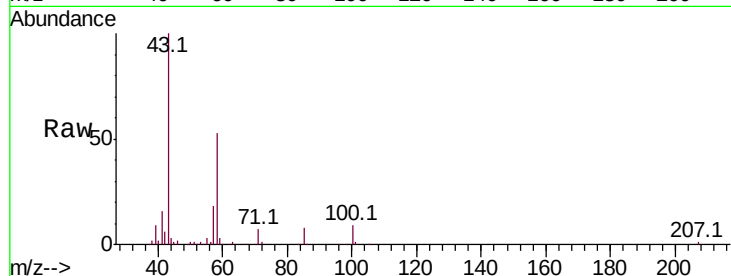




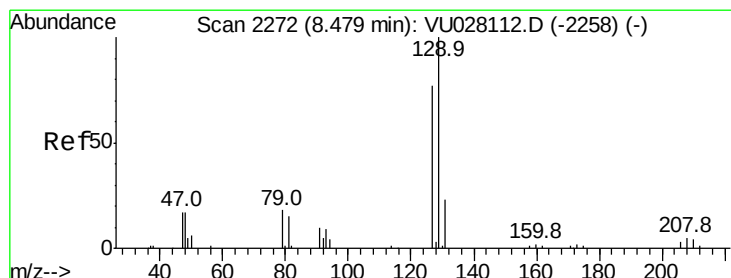
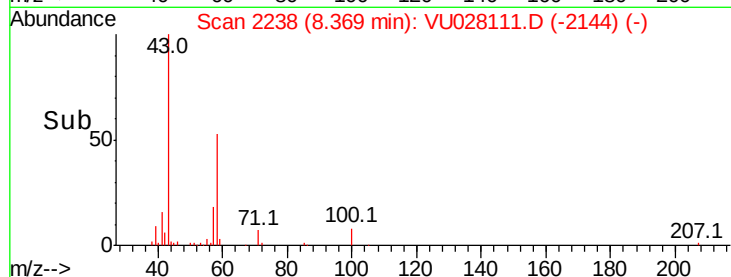
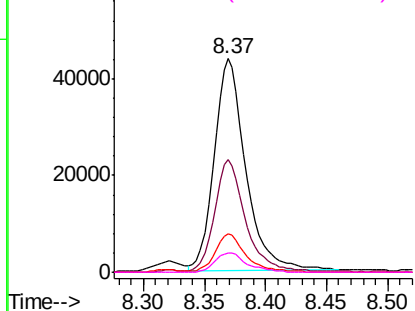
#48
2-Hexanone
Concen: 9.306 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 79284
Ion Ratio Lower Upper
43 100
58 50.3 41.7 62.5
57 17.8 14.0 21.0
100 9.4 7.2 10.8

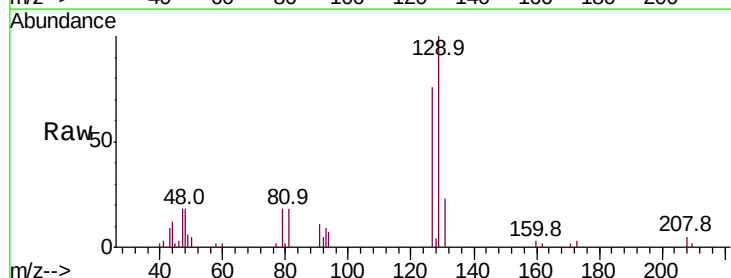


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

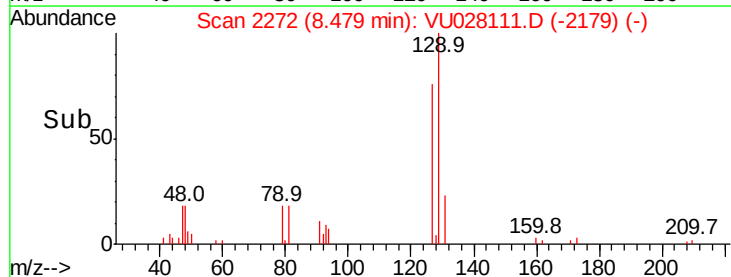
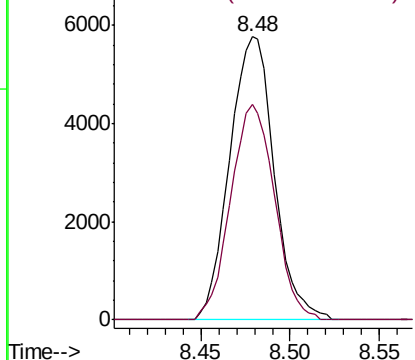


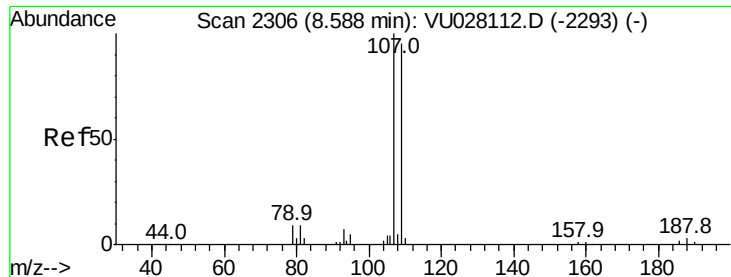
#49
Dibromochloromethane
Concen: 0.899 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion: 129 Resp: 10044
Ion Ratio Lower Upper
129 100
127 76.3 54.1 100.5



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

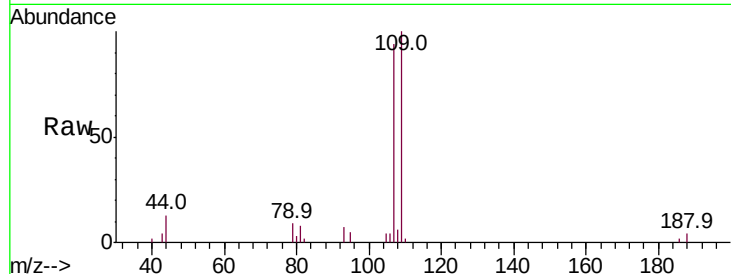




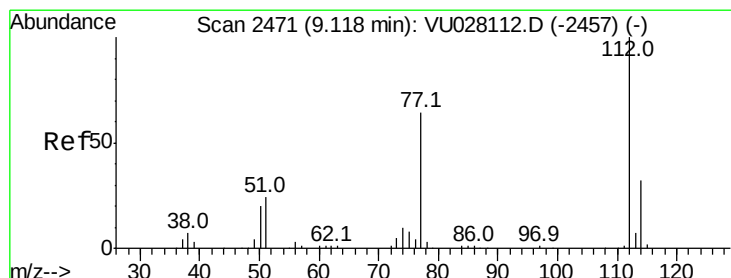
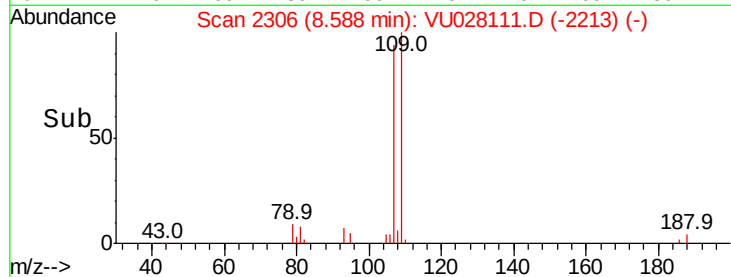
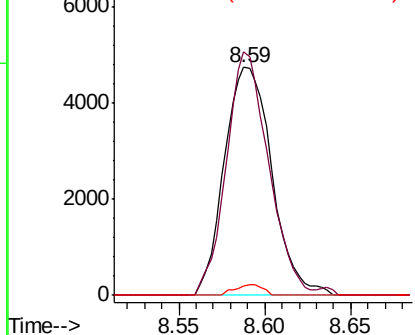
#50
 1,2-Dibromoethane
 Concen: 0.922 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 9117
 Ion Ratio Lower Upper
 107 100
 109 106.8 66.6 123.8
 188 4.2 2.5 3.7#

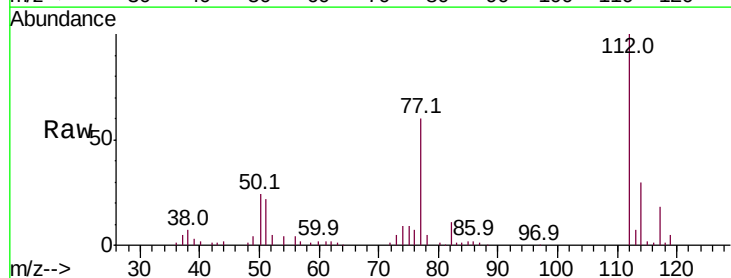


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

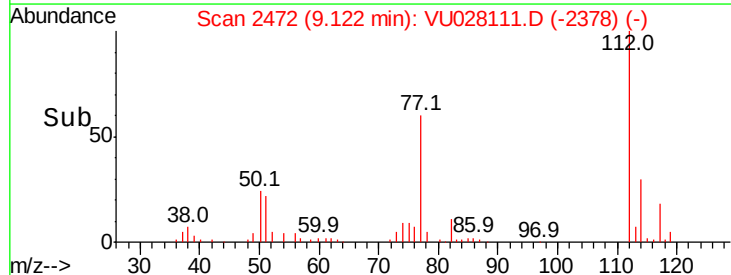
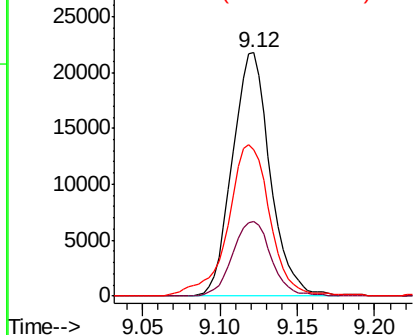


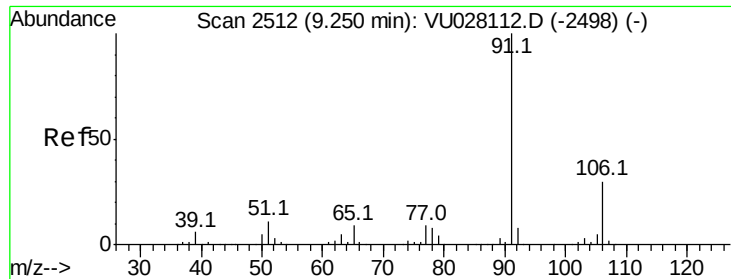
#51
 Chlorobenzene
 Concen: 0.974 ug/L
 RT: 9.12 min Scan# 2472
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Tgt Ion:112 Resp: 36905
 Ion Ratio Lower Upper
 112 100
 114 30.4 22.5 41.7
 77 60.3 51.3 76.9



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.907 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

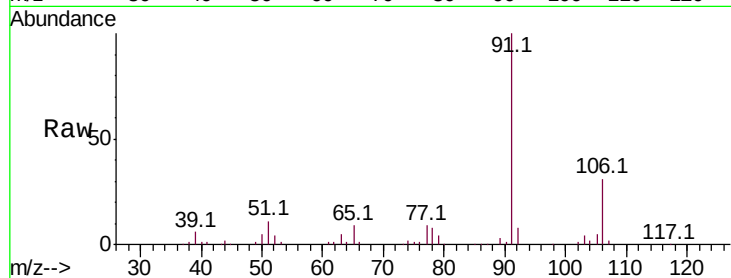
ClientSampleId :

Tot Ion: 91 Resp: 64205

Ion Ratio Lower Upper

91 100

106 31.4 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU028111.D (-2498) (-)

Ion 106.15 (105.85 to 106.85): VU028111.D (-2498) (-)

9.25

40000

30000

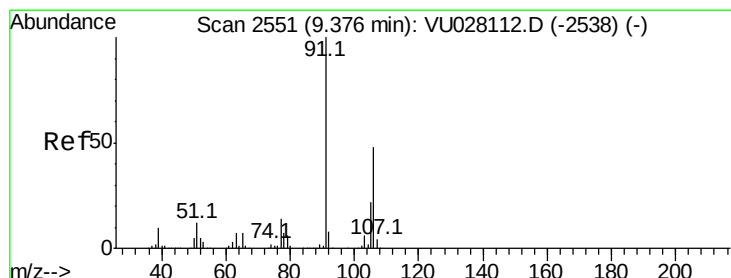
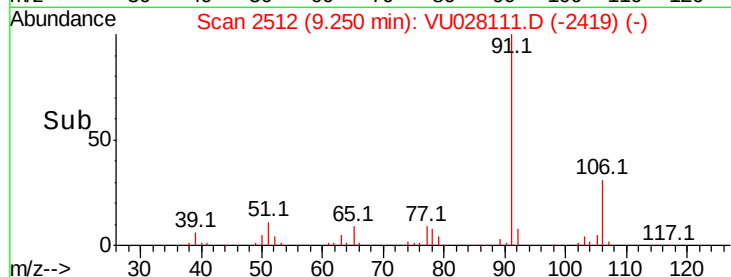
20000

10000

0

9.20 9.25 9.30 9.35

Time-->



#53

m,p-xylene

Concen: 0.935 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028111.D

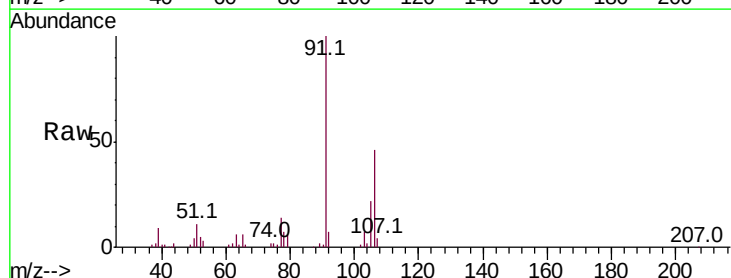
Acq: 14 Nov 2018 10:27

Tgt Ion: 106 Resp: 24109

Ion Ratio Lower Upper

106 100

91 215.6 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028111.D (-2538) (-)

Ion 91.15 (90.85 to 91.85): VU028111.D (-2538) (-)

9.38

30000

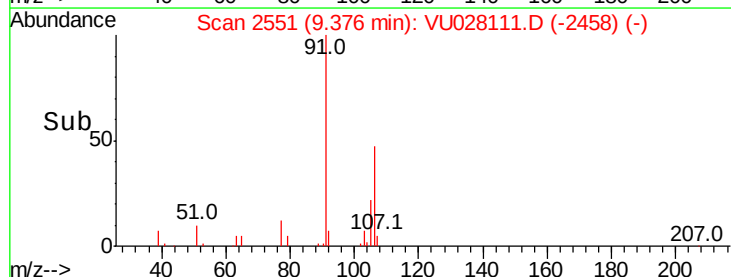
20000

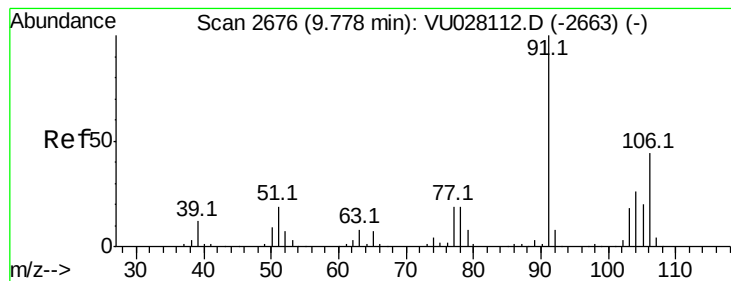
10000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 0.913 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

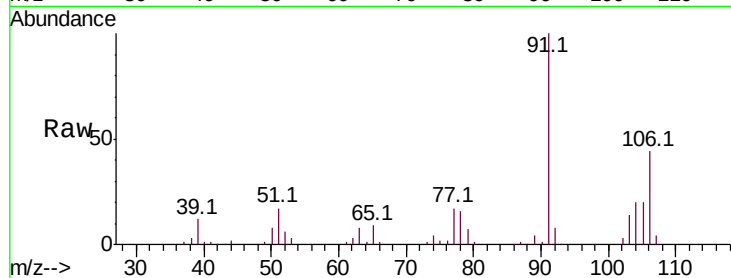
ClientSampled :

Tot Ion:106 Resp: 22656

Ion Ratio Lower Upper

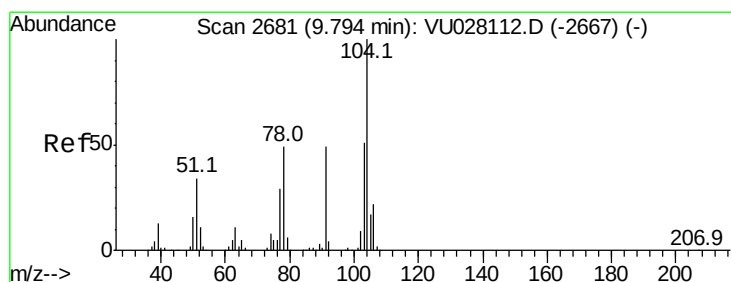
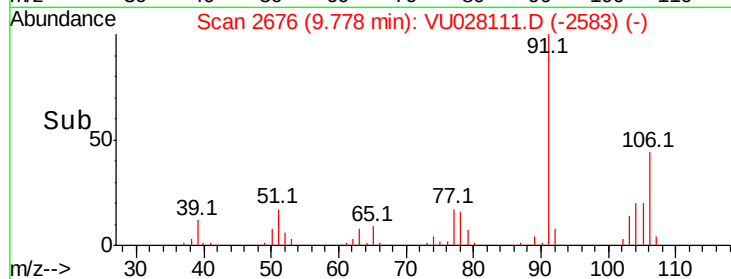
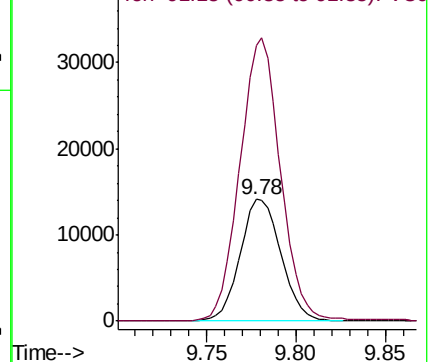
106 100

91 225.9 158.7 294.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.905 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU028111.D

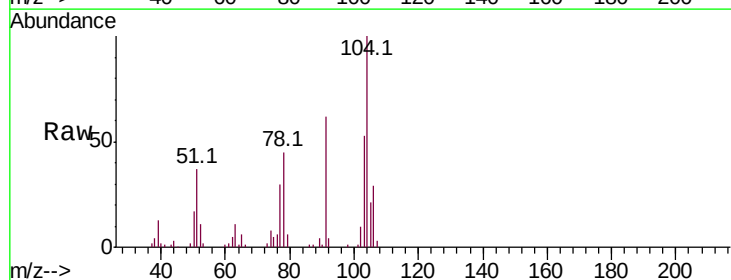
Acq: 14 Nov 2018 10:27

Tgt Ion:104 Resp: 37977

Ion Ratio Lower Upper

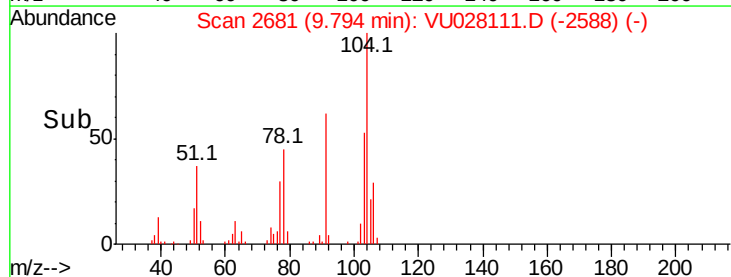
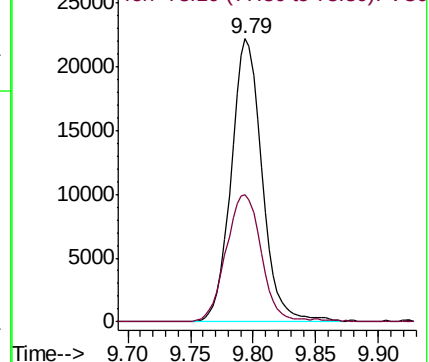
104 100

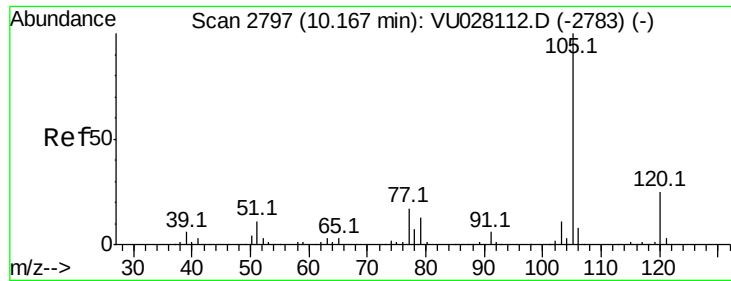
78 44.9 34.5 64.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.931 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

ClientSampled :

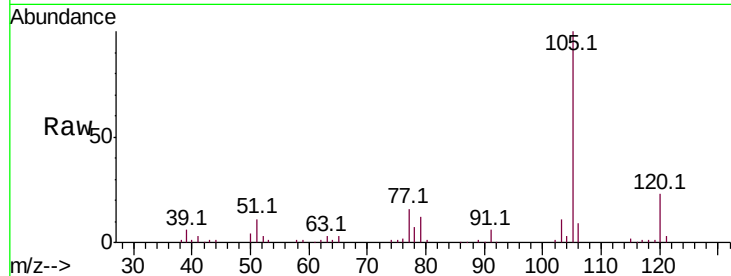
Tot Ion:105 Resp: 62482

Ion Ratio Lower Upper

105 100

120 23.9 20.5 30.7

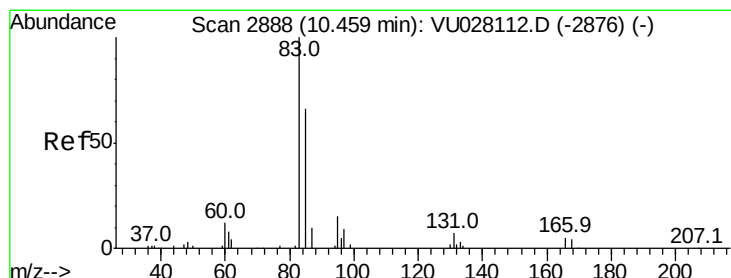
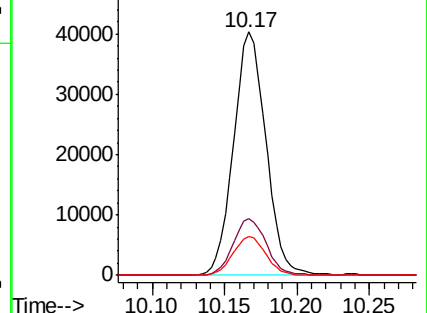
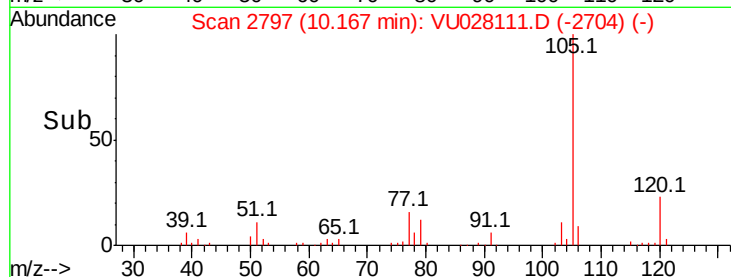
77 16.0 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.914 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

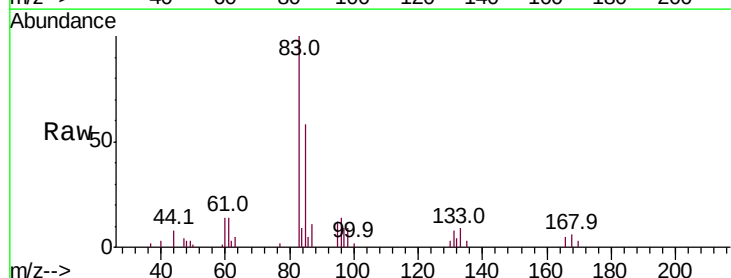
Tgt Ion: 83 Resp: 12365

Ion Ratio Lower Upper

83 100

85 58.0 46.7 86.7

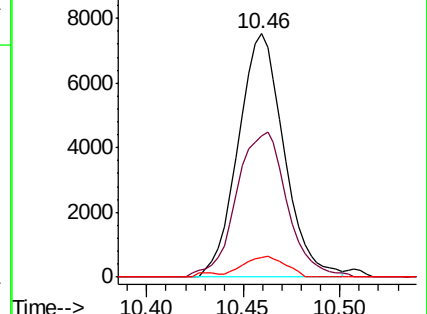
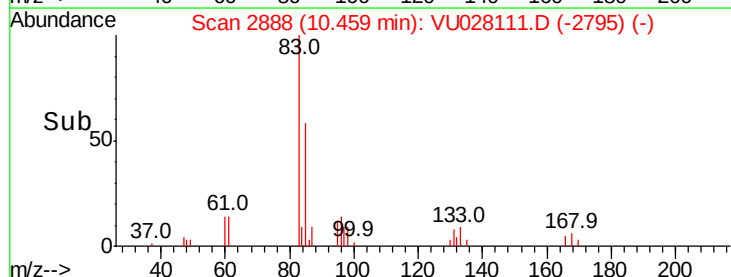
131 8.2 5.9 8.9

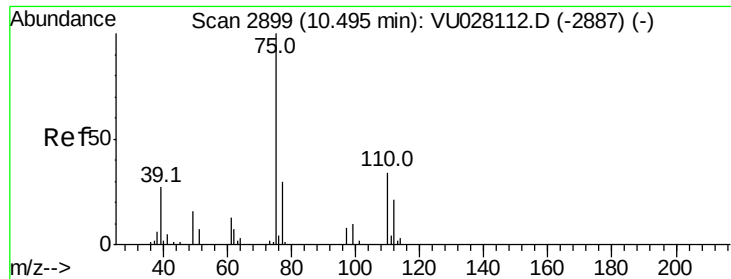


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

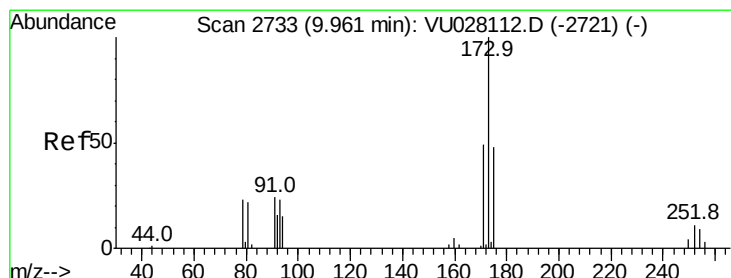
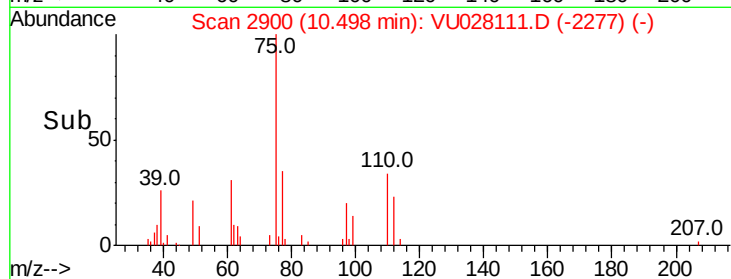
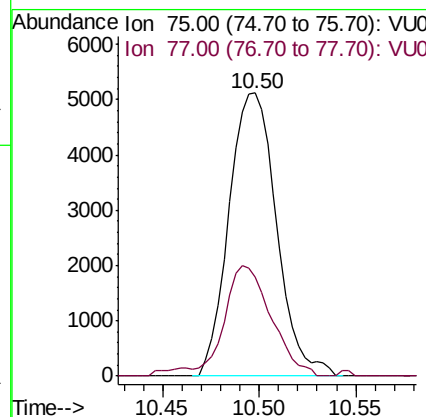
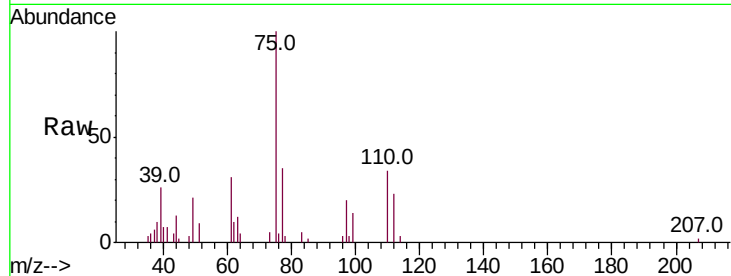




#59
 1,2,3-Trichloropropane
 Concen: 0.895 ug/L
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

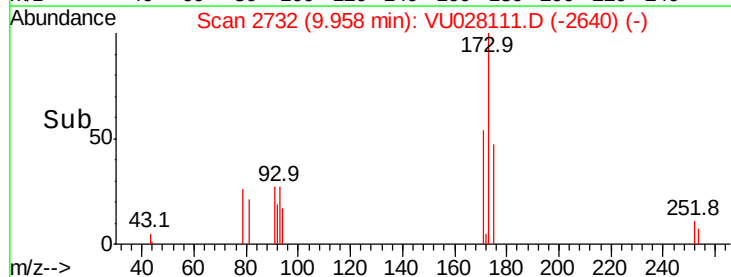
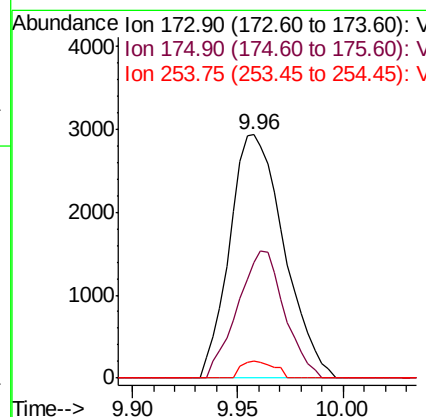
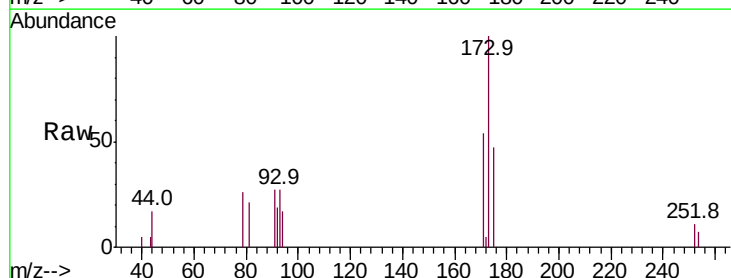
Instrument :
 MSVOA_U
 ClientSampleId :

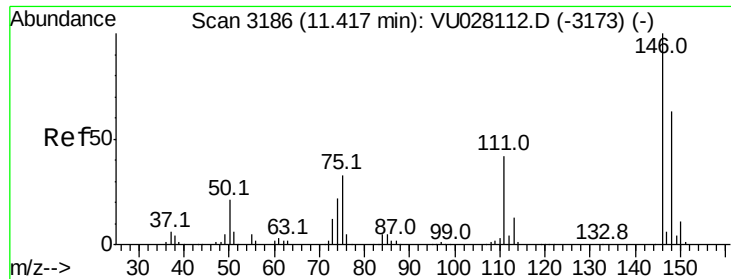
Tot Ion: 75 Resp: 8745
 Ion Ratio Lower Upper
 75 100
 77 37.8 25.4 38.0



#61
 Bromoform
 Concen: 0.880 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Tgt Ion: 173 Resp: 5240
 Ion Ratio Lower Upper
 173 100
 175 45.1 38.2 57.2
 254 4.2 7.1 10.7#





#62

1,3-Dichlorobenzene

Concen: 0.928 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

Instrument :

MSVOA_U

ClientSampleId :

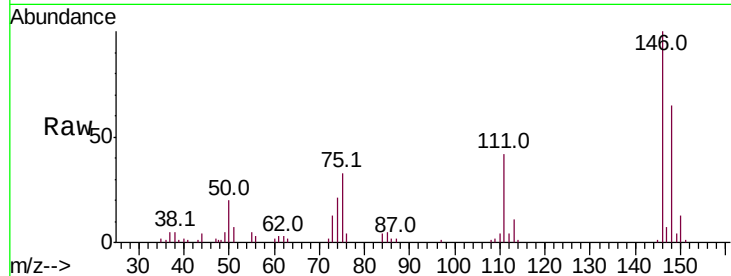
Tot Ion:146 Resp: 25829

Ion Ratio Lower Upper

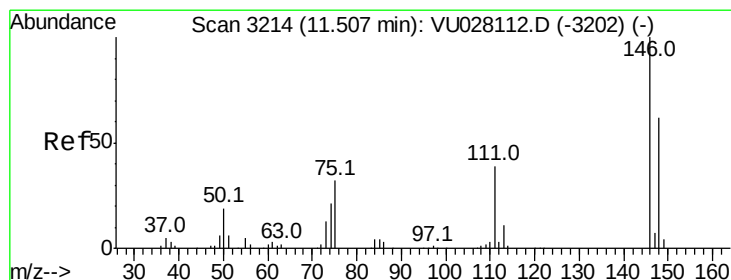
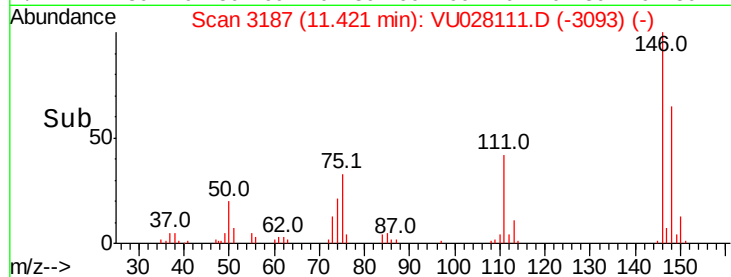
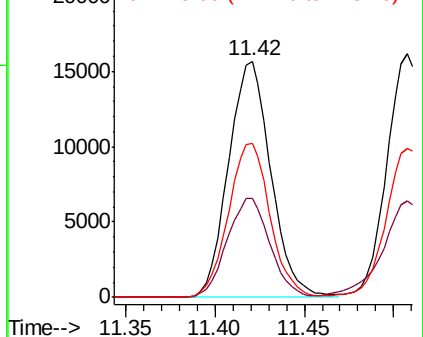
146 100

111 41.9 29.3 54.3

148 65.0 44.1 81.9



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



#63

1,4-Dichlorobenzene

Concen: 0.940 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028111.D

Acq: 14 Nov 2018 10:27

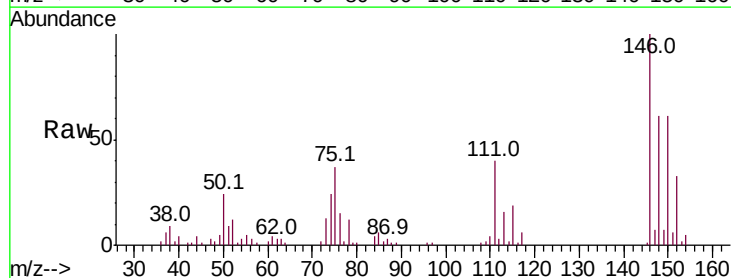
Tgt Ion:146 Resp: 26484

Ion Ratio Lower Upper

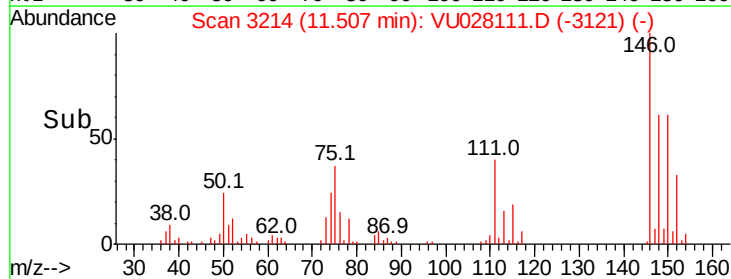
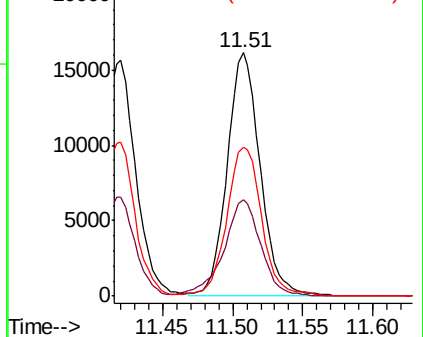
146 100

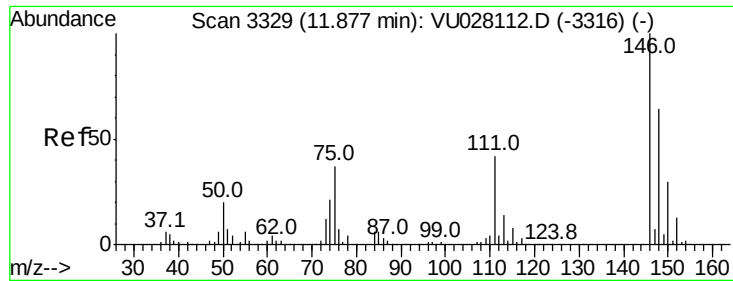
111 39.7 27.4 51.0

148 61.0 43.8 81.3



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

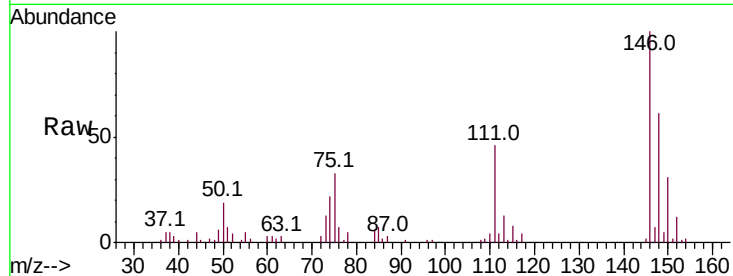




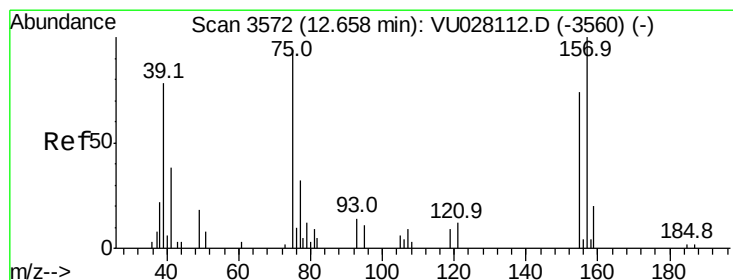
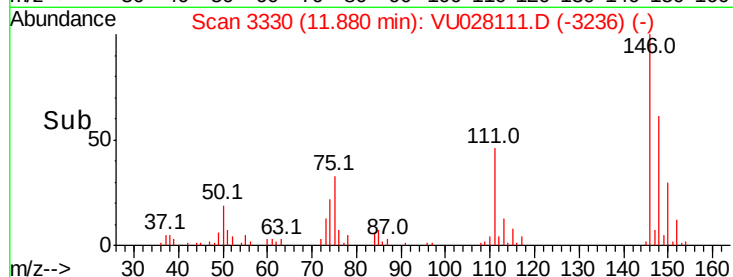
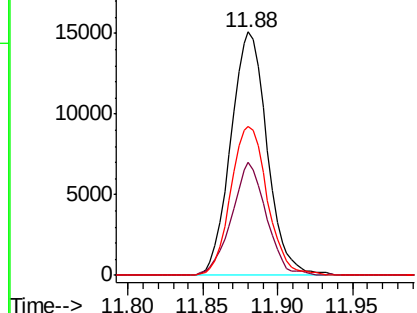
#65
 1,2-Dichlorobenzene
 Concen: 0.959 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 25529
 Ion Ratio Lower Upper
 146 100
 111 46.5 33.9 50.9
 148 61.1 50.9 76.3

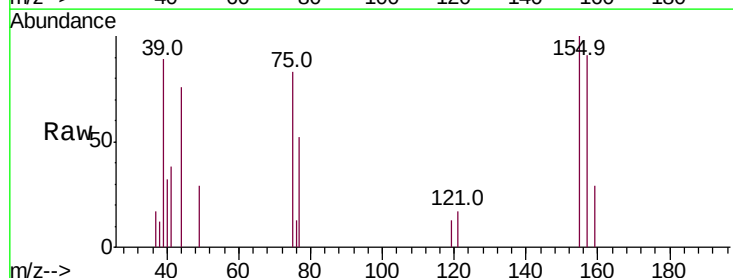


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

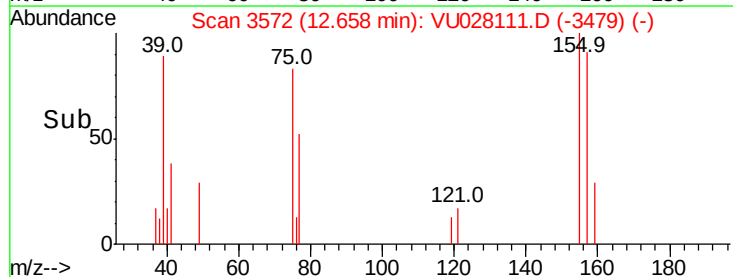
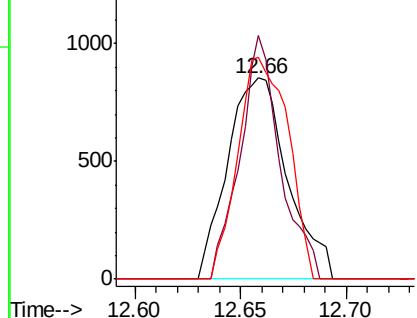


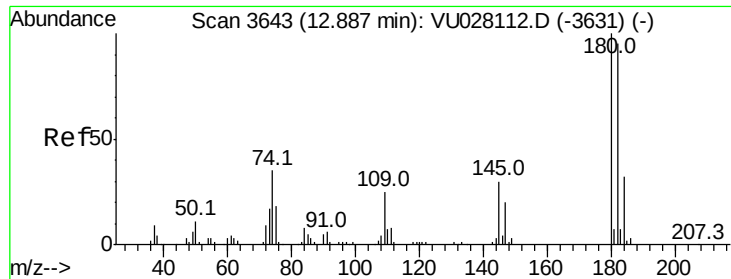
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.877 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. -0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Tgt Ion: 75 Resp: 1694
 Ion Ratio Lower Upper
 75 100
 155 121.1 62.8 94.2#
 157 110.1 85.3 127.9



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

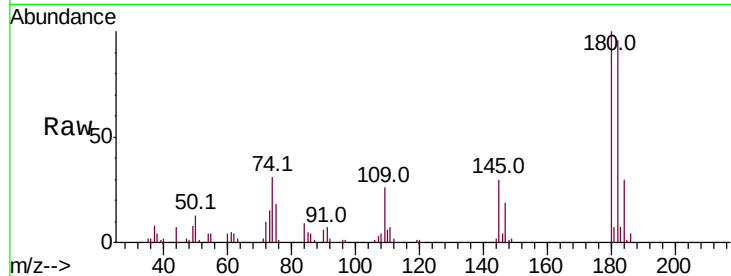




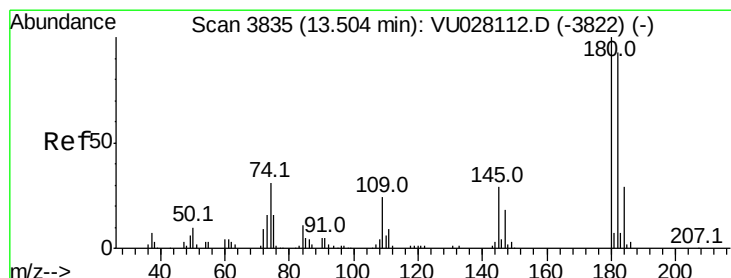
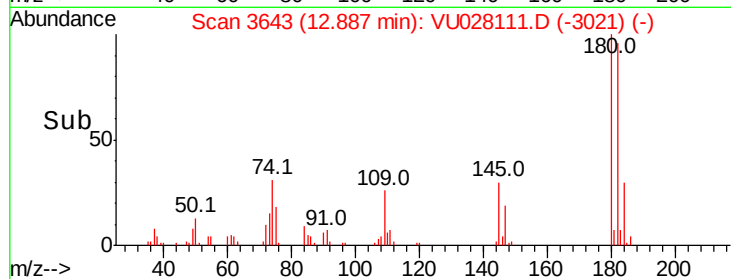
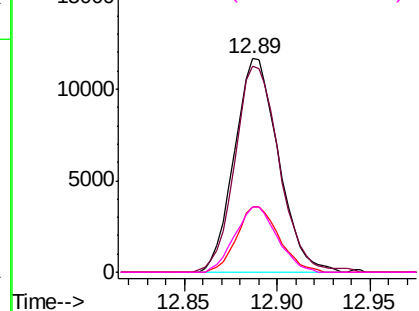
#67
 1,3,5-Trichlorobenzene
 Concen: 0.903 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	19293
Ion Ratio	Lower	Upper
180 100		
182 96.8	76.6	114.8
184 29.2	24.7	37.1
145 29.2	24.0	36.0

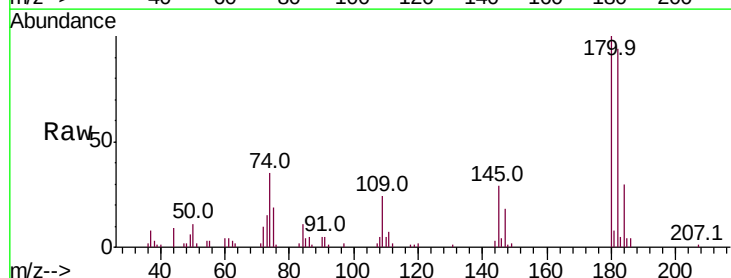


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

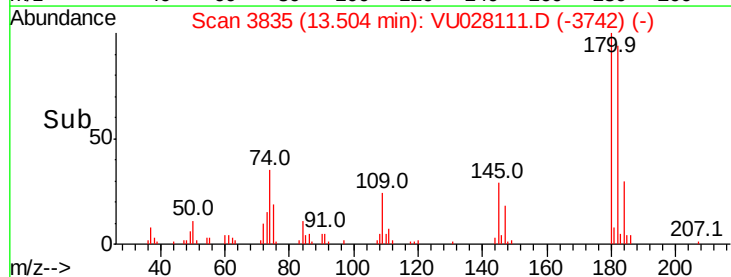
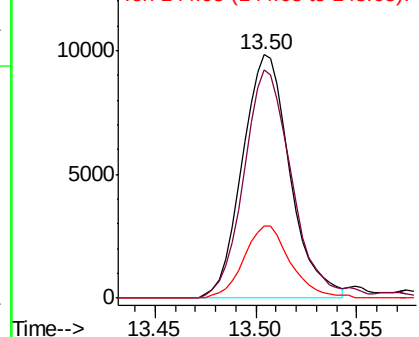


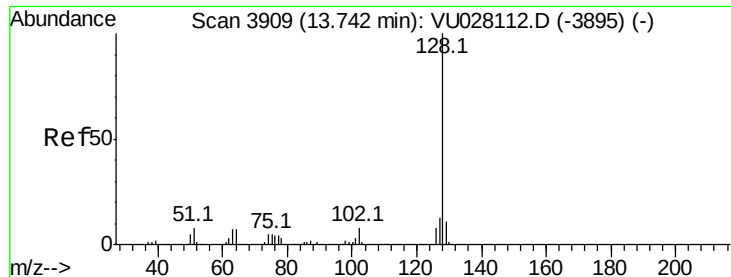
#68
 1,2,4-trichlorobenzene
 Concen: 0.877 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028111.D
 Acq: 14 Nov 2018 10:27

Tgt Ion	180	Resp:	16324
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.1	112.7
145	28.9	23.4	35.0



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

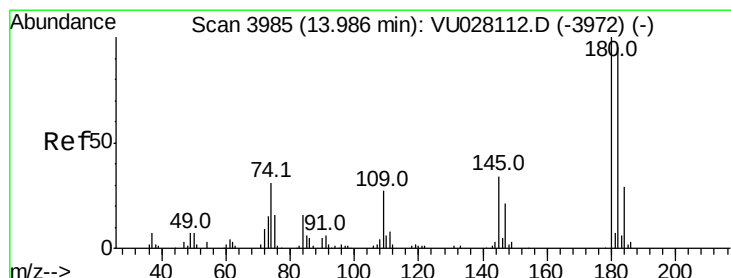
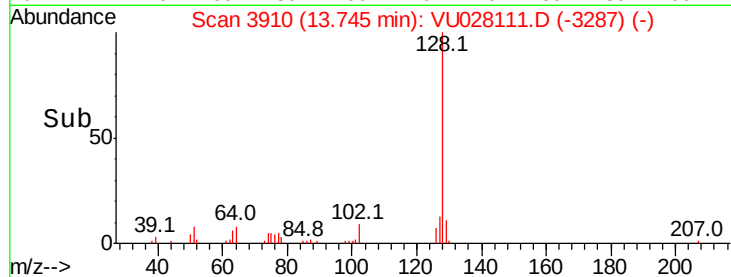
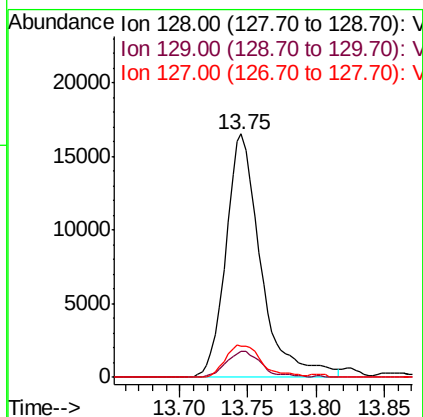
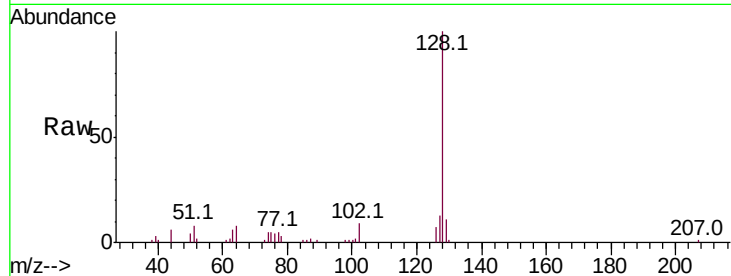




#69
Naphthalene
Concen: 0.850 ug/L
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 29490
Ion Ratio Lower Upper
128 100
129 10.8 8.5 12.7
127 13.8 10.2 15.4



#70
1,2,3-Trichlorobenzene
Concen: 0.921 ug/L
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028111.D
Acq: 14 Nov 2018 10:27

Tgt Ion:180 Resp: 15797
Ion Ratio Lower Upper
180 100
182 88.9 77.6 116.4
145 32.1 26.2 39.4

