

Data File : VU028408.D
Acq On : 30 Nov 2018 09:04
Operator : MD/SY
Sample : VSTD00553
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Quant Time: Nov 30 22:52:54 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM113018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Nov 30 22:49:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	503951	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	474652	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	219015	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	21685	4.81	ug/L	0.00
7) Chloroethane-d5	1.68	69	16602	4.80	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	39173	4.89	ug/L	0.00
21) 2-Butanone-d5	4.19	46	32842	8.88	ug/L	0.01
24) Chloroform-d	4.65	84	34802	4.78	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	25498	5.15	ug/L	0.00
32) Benzene-d6	5.34	84	71038	4.81	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	26221	4.92	ug/L	0.00
41) Toluene-d8	7.57	98	65391	4.88	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	11495	4.77	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	23028	8.94	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	30886	4.53	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	21553	4.89	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	22667	5.030 ug/L	97
3) Chloromethane	1.33	50	30677	4.712 ug/L	94
5) Vinyl chloride	1.40	62	26996	4.848 ug/L	98
6) Bromomethane	1.63	94	8389	5.352 ug/L	96
8) Chloroethane	1.70	64	15586	4.986 ug/L	97
9) Trichlorofluoromethane	1.89	101	28393	5.007 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	16681	5.067 ug/L	99
12) 1,1-Dichloroethene	2.28	96	15565	4.894 ug/L	93
13) Acetone	2.32	43	44709	11.614 ug/L	100
14) Carbon disulfide	2.48	76	59589	4.949 ug/L	98
15) Methyl Acetate	2.62	43	27598	4.846 ug/L	98
16) Methylene chloride	2.70	84	19921	4.839 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	17284	4.796 ug/L	96
18) Methyl tert-butyl Ether	3.00	73	61960	4.947 ug/L	96
19) 1,1-Dichloroethane	3.44	63	37806	4.856 ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	21041	5.076 ug/L	95
22) 2-Butanone	4.27	43	48568	10.079 ug/L	77
23) Bromochloromethane	4.55	128	9100	5.018 ug/L	92
25) Chloroform	4.67	83	35169	4.934 ug/L	93
27) 1,2-Dichloroethane	5.40	62	28736	4.870 ug/L	99
29) Cyclohexane	4.99	56	38665	5.019 ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	27456	4.887 ug/L	98
31) Carbon tetrachloride	5.13	117	21910	4.842 ug/L	99
33) Benzene	5.39	78	80350	4.928 ug/L	100
34) Trichloroethene	6.18	95	19668	5.045 ug/L	99
35) Methylcyclohexane	6.41	83	34647	5.105 ug/L	99
37) 1,2-Dichloropropane	6.43	63	24058	4.976 ug/L	# 98
38) Bromodichloromethane	6.76	83	26522	4.944 ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	31808	4.634 ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	74048	9.685 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	79890	4.815	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	29531	4.695	ug/L	92
45) 1,1,2-Trichloroethane	8.07	97	18283	4.863	ug/L	97
46) Tetrachloroethene	8.23	164	13499	4.924	ug/L	95
48) 2-Hexanone	8.36	43	65323	10.169	ug/L	96
49) Dibromochloromethane	8.48	129	18082	4.702	ug/L	96
50) 1,2-Dibromoethane	8.59	107	20218	5.003	ug/L #	92
51) Chlorobenzene	9.12	112	48146	4.864	ug/L	99
52) Ethylbenzene	9.25	91	88525	4.830	ug/L	99
53) m,p-Xylene	9.38	106	31219	4.775	ug/L	94
54) o-xylene	9.78	106	30938	4.778	ug/L	95
55) Styrene	9.79	104	52108	4.697	ug/L	94
56) Isopropylbenzene	10.17	105	82595	4.835	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	33587	4.789	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	26958	4.913	ug/L	99
61) Bromoform	9.96	173	13929	5.170	ug/L	96
62) 1,3-Dichlorobenzene	11.42	146	36535	5.118	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	36139	5.027	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	34792	4.910	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	6944	4.865	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	25265	4.811	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	23914	4.890	ug/L	97
69) Naphthalene	13.74	128	79023	4.634	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	23263	4.722	ug/L	99

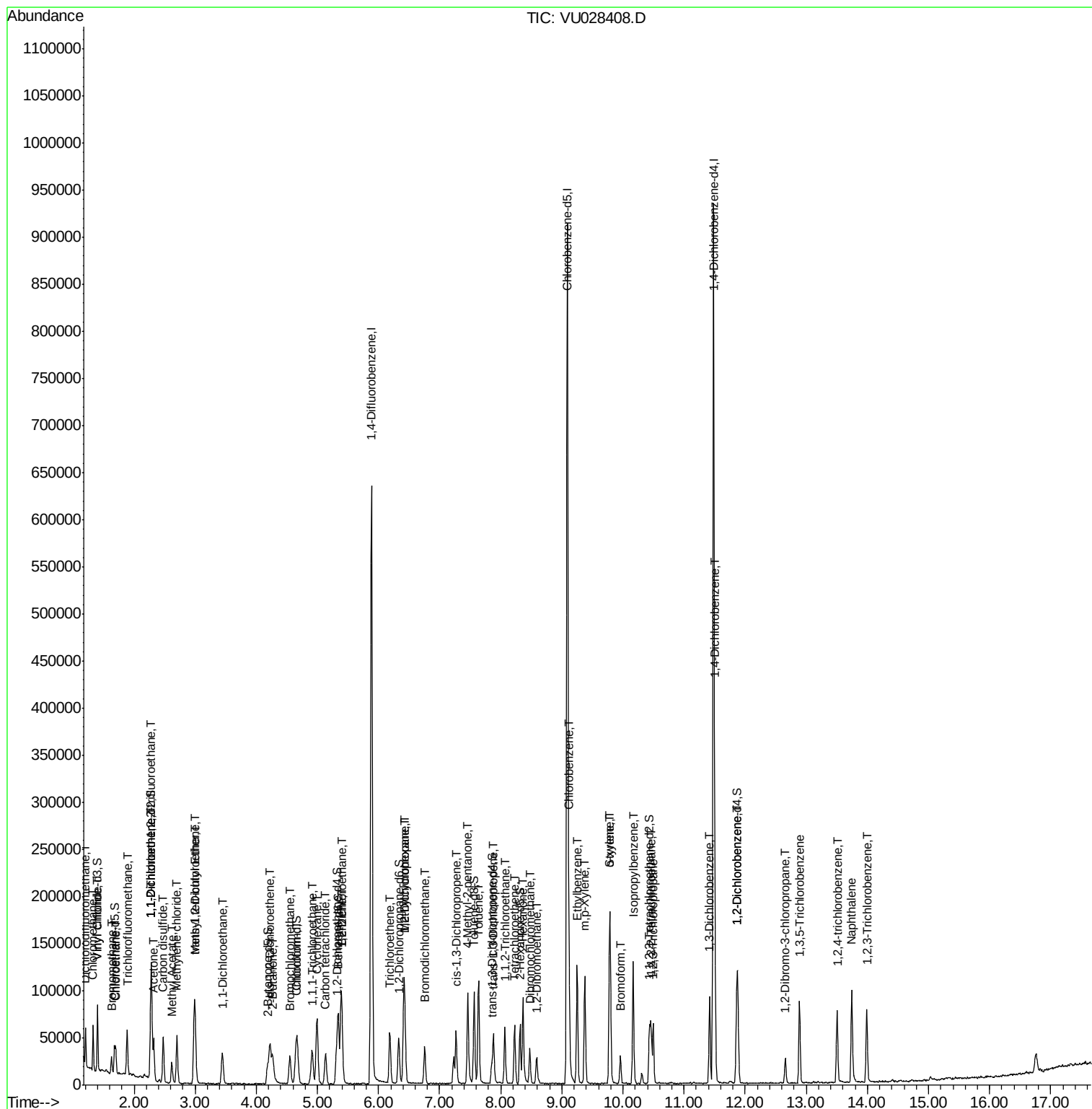
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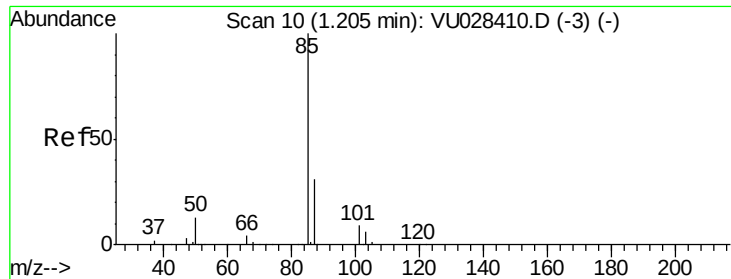
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#2

Dichlorodifluoromethane

Concen: 5.030 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

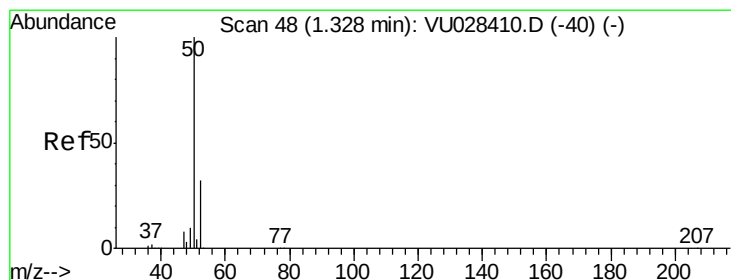
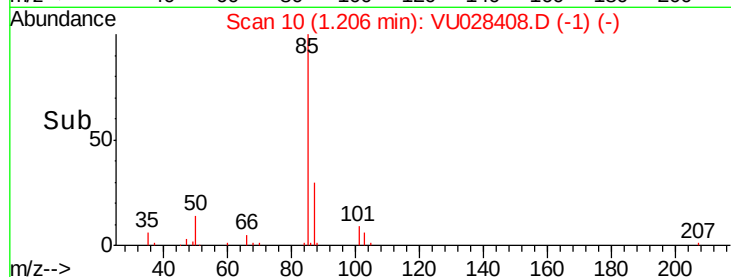
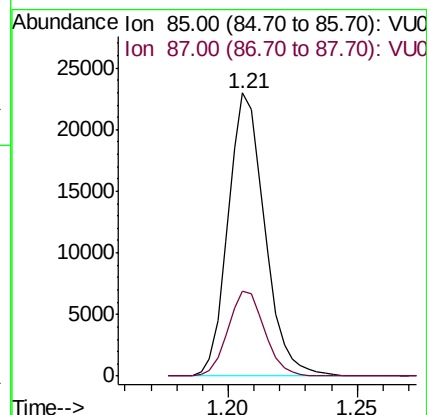
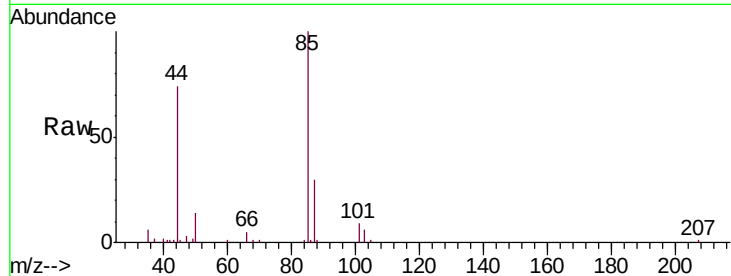
VSTD00553

Tgt Ion: 85 Resp: 22667

Ion Ratio Lower Upper

85 100

87 29.9 25.2 37.8



#3

Chloromethane

Concen: 4.712 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028408.D

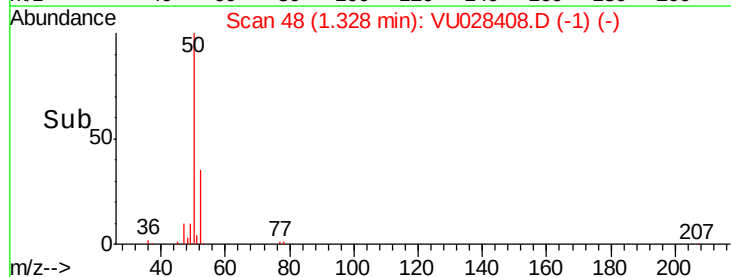
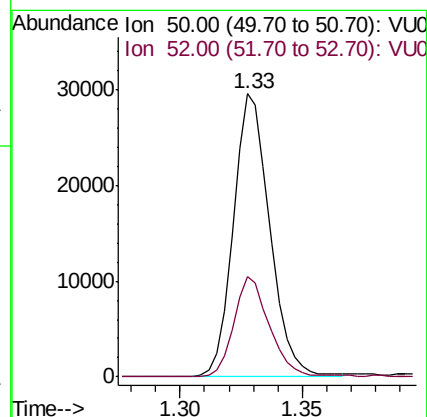
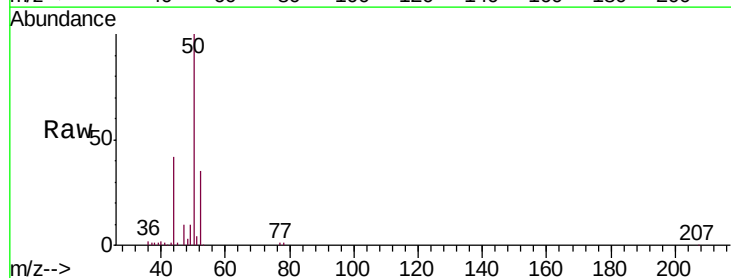
Acq: 30 Nov 2018 09:04

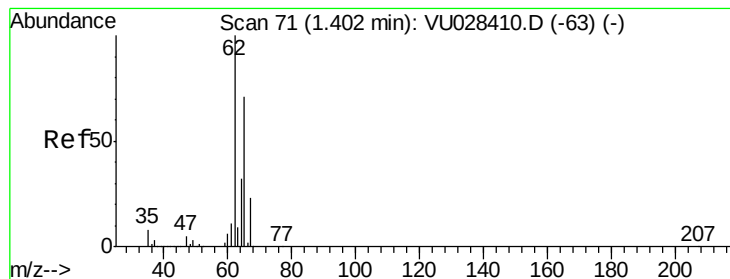
Tgt Ion: 50 Resp: 30677

Ion Ratio Lower Upper

50 100

52 35.4 22.6 42.0





#5

Vinyl chloride

Concen: 4.848 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

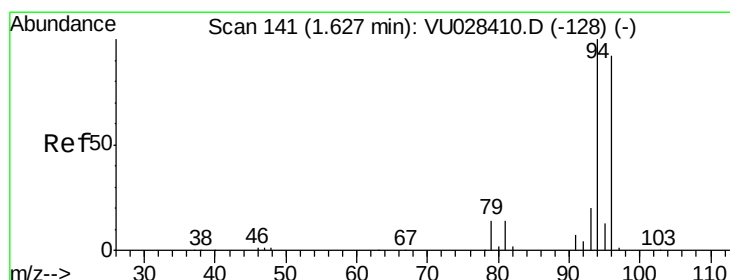
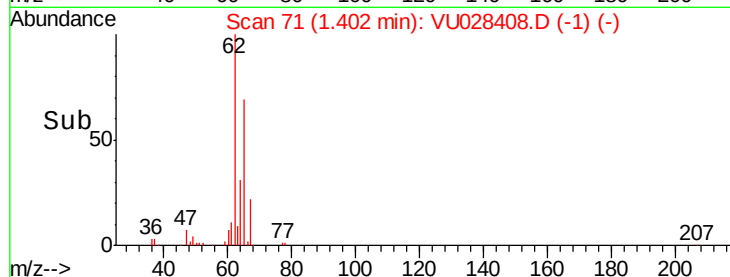
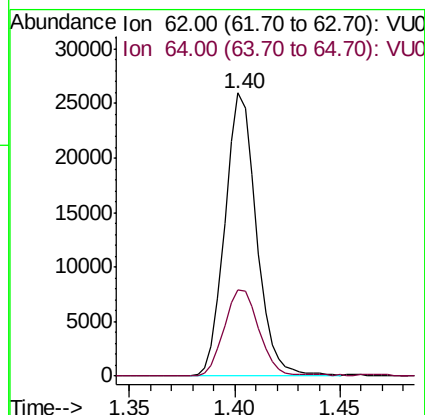
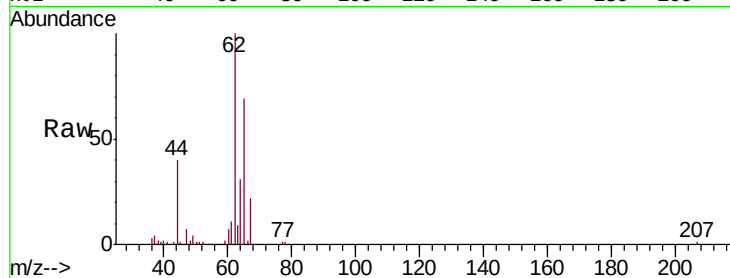
VSTD00553

Tgt Ion: 62 Resp: 26996

Ion Ratio Lower Upper

62 100

64 30.6 22.4 41.6



#6

Bromomethane

Concen: 5.352 ug/L

RT: 1.63 min Scan# 142

Delta R.T. 0.00 min

Lab File: VU028408.D

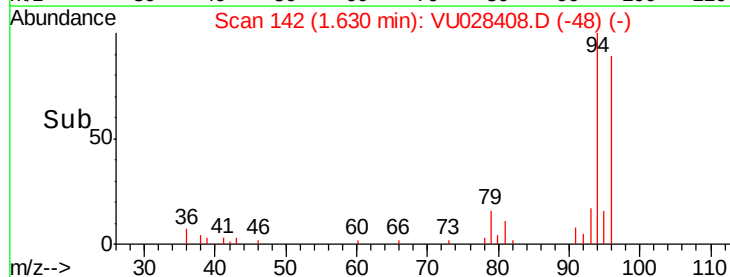
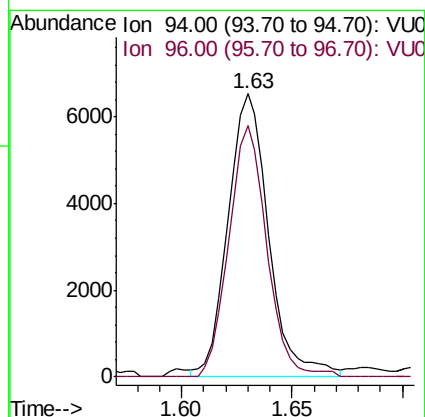
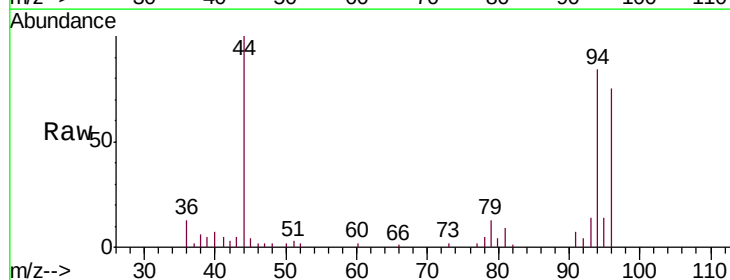
Acq: 30 Nov 2018 09:04

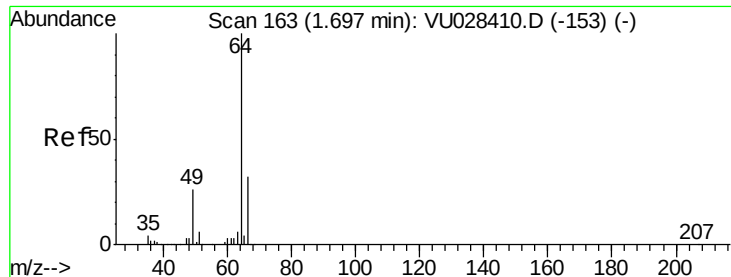
Tgt Ion: 94 Resp: 8389

Ion Ratio Lower Upper

94 100

96 88.8 64.5 119.9





#8

Chloroethane

Concen: 4.986 ug/L

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

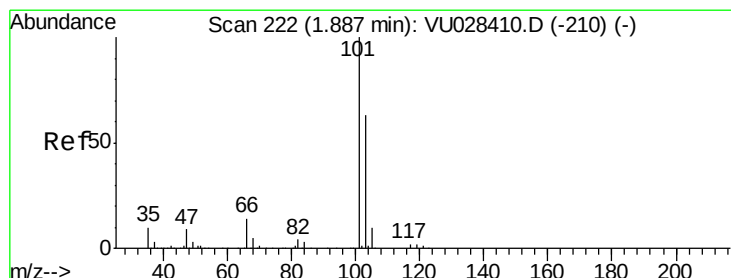
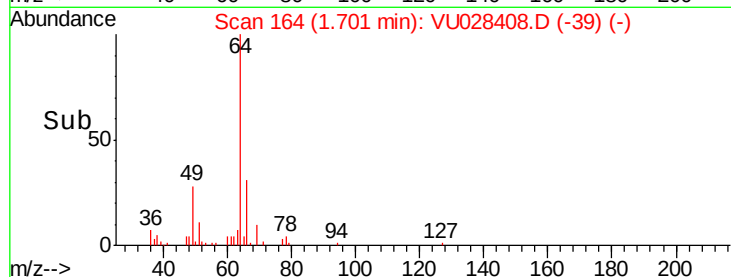
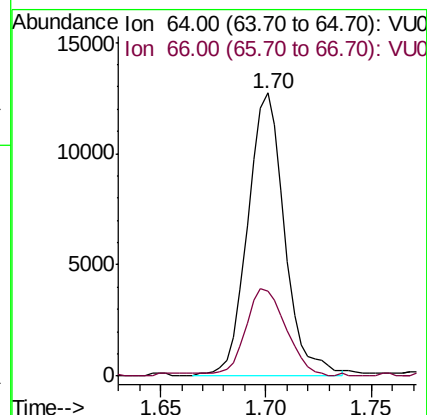
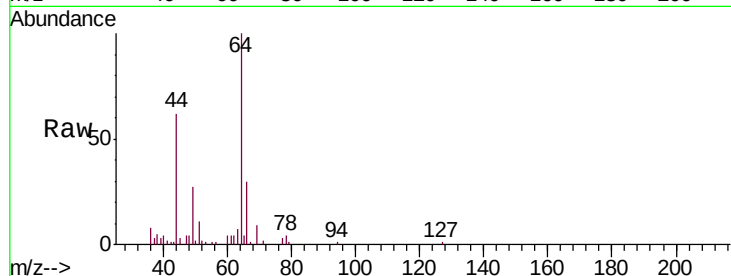
VSTD00553

Tgt Ion: 64 Resp: 15586

Ion Ratio Lower Upper

64 100

66 30.1 22.5 41.7



#9

Trichlorofluoromethane

Concen: 5.007 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU028408.D

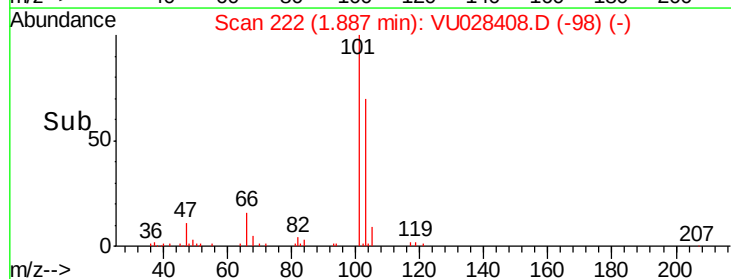
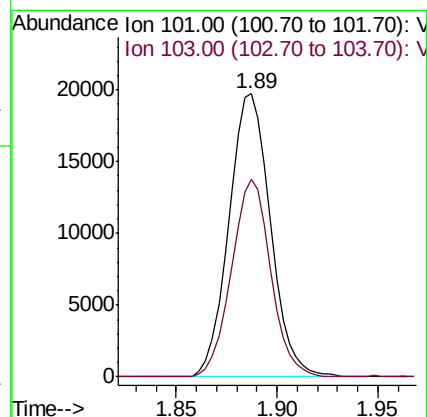
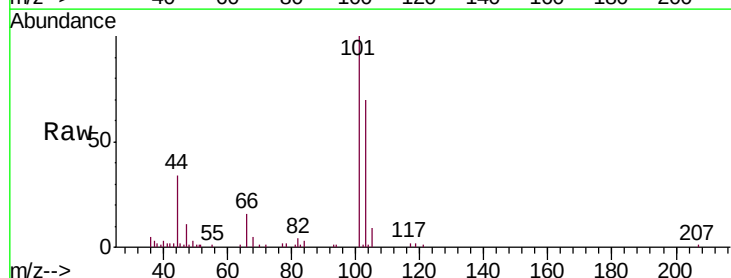
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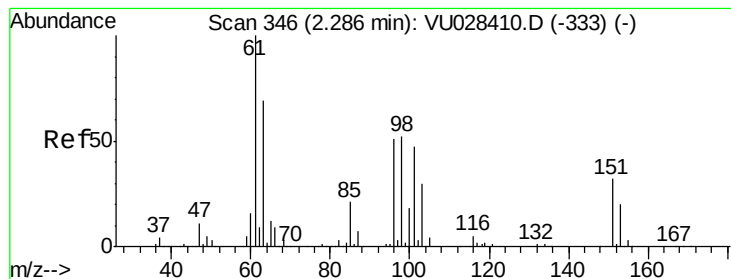
Tgt Ion: 101 Resp: 28393

Ion Ratio Lower Upper

101 100

103 66.0 51.0 76.6





#10

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

Concen: 5.067 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

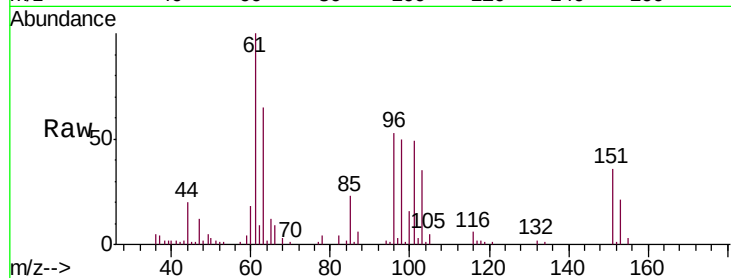
Tgt Ion: 101 Resp: 16681

Ion Ratio Lower Upper

101 100

85 43.9 36.5 54.7

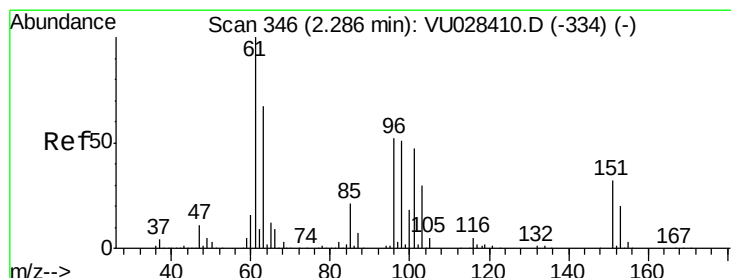
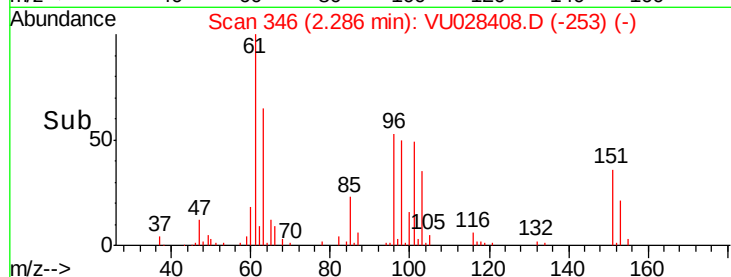
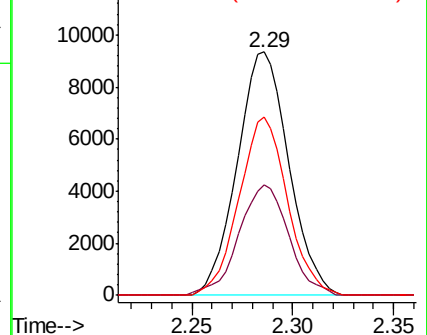
151 69.0 55.0 82.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.894 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

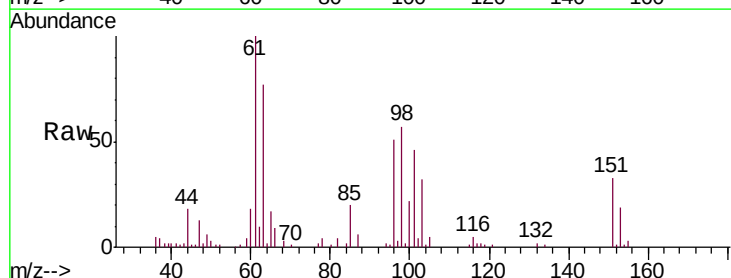
Tgt Ion: 96 Resp: 15565

Ion Ratio Lower Upper

96 100

61 197.5 136.2 252.9

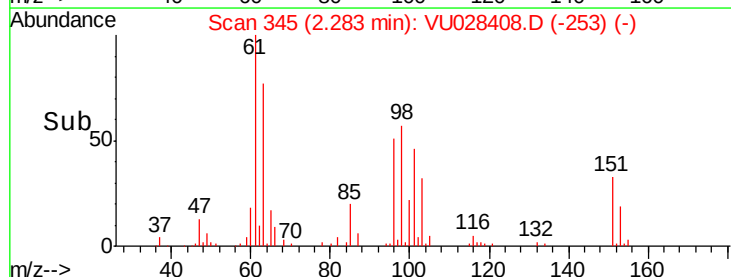
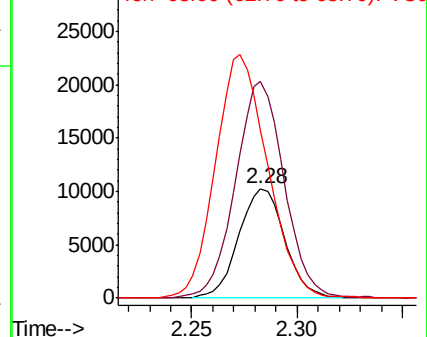
63 152.9 95.5 177.4

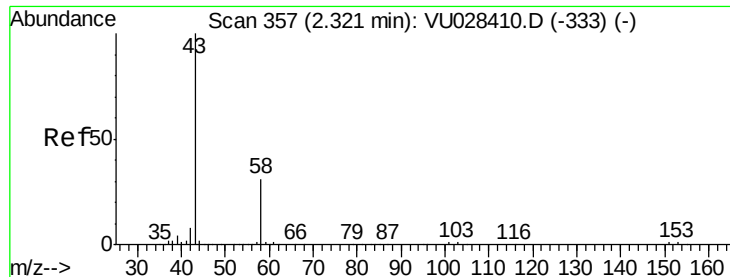


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.614 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028408.D

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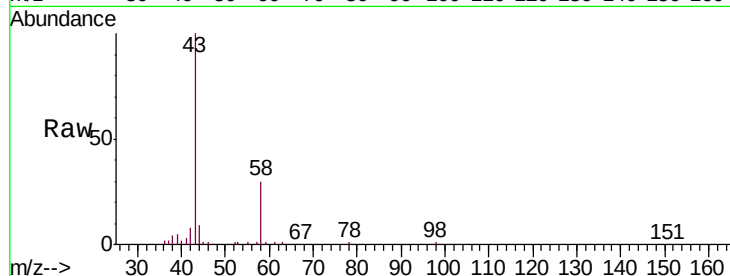
VSTD00553

Tgt Ion: 43 Resp: 44709

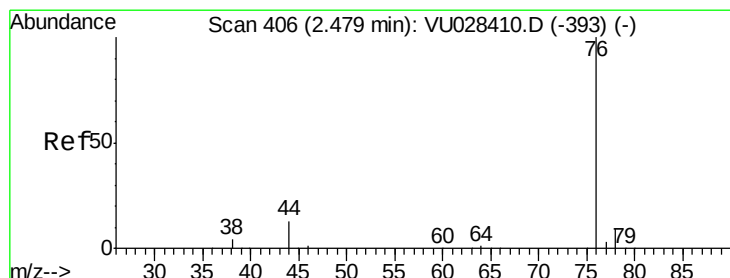
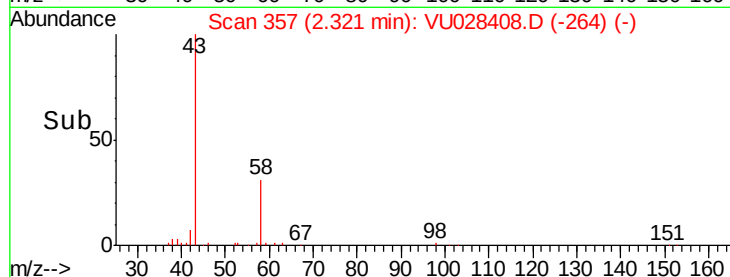
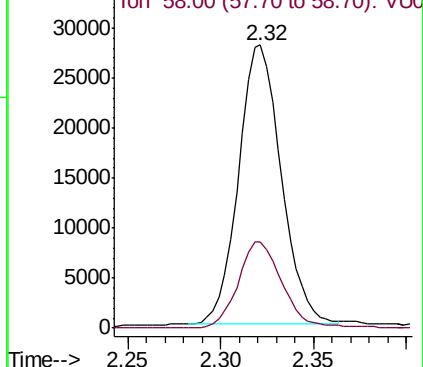
Ion Ratio Lower Upper

43 100

58 31.7 0.0 63.0



Abundance Ion 43.00 (42.70 to 43.70): VU028410.D (-333) (-)



#14

Carbon disulfide

Concen: 4.949 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028408.D

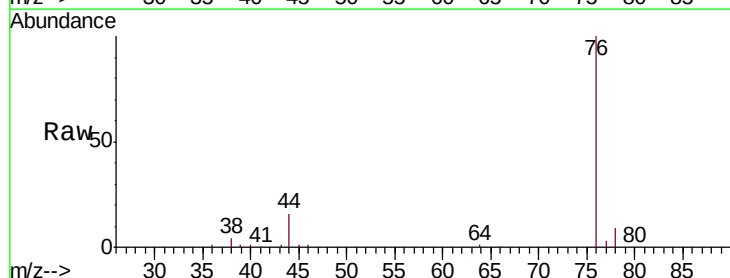
Acq: 30 Nov 2018 09:04

Tgt Ion: 76 Resp: 59589

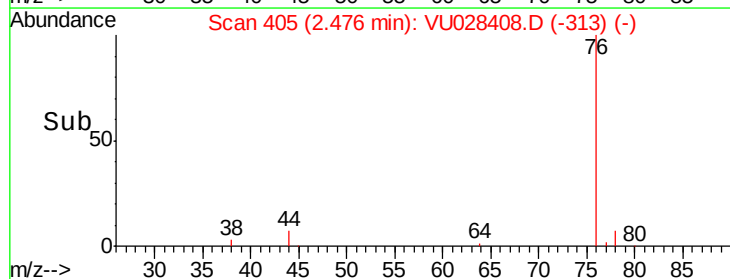
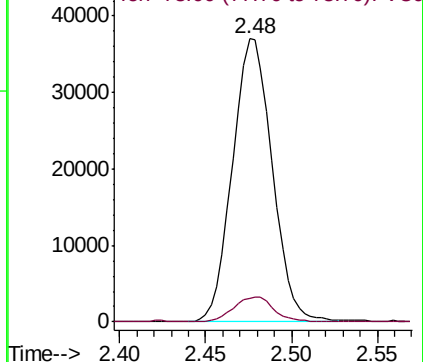
Ion Ratio Lower Upper

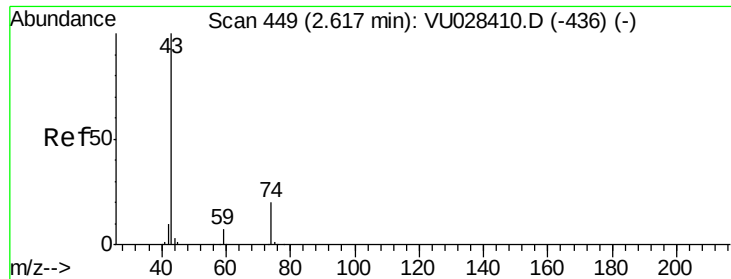
76 100

78 8.5 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU028410.D (-393) (-)

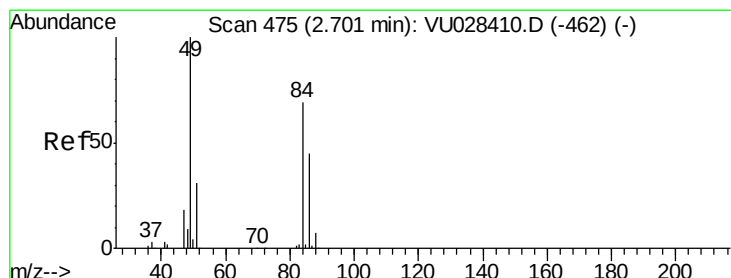
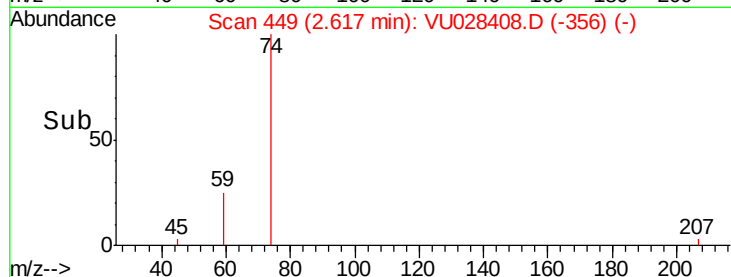
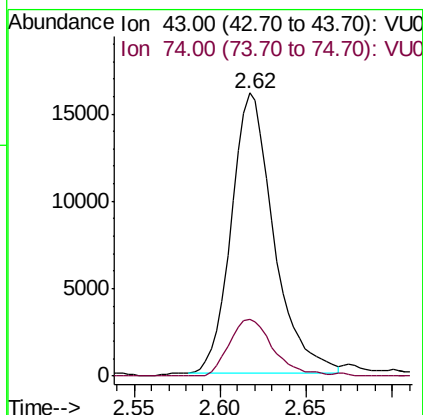
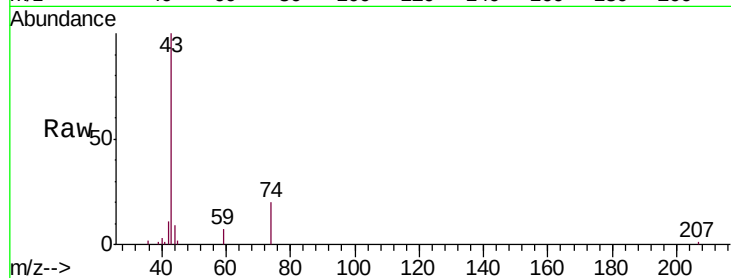




#15
Methyl Acetate
Concen: 4.846 ug/L
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

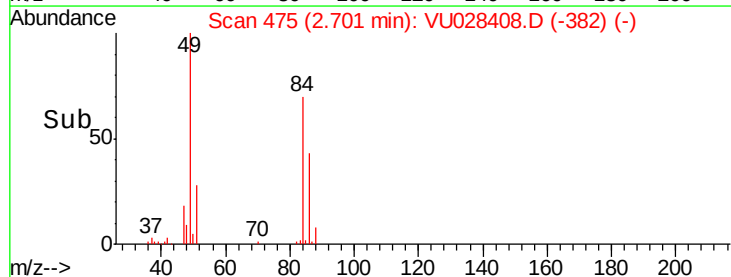
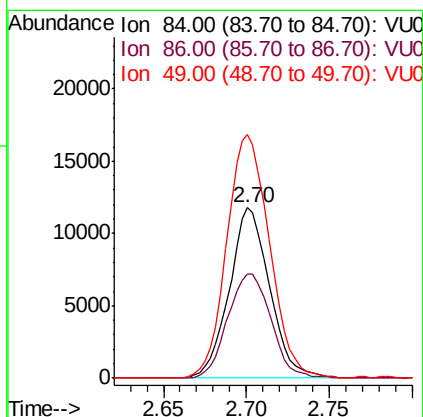
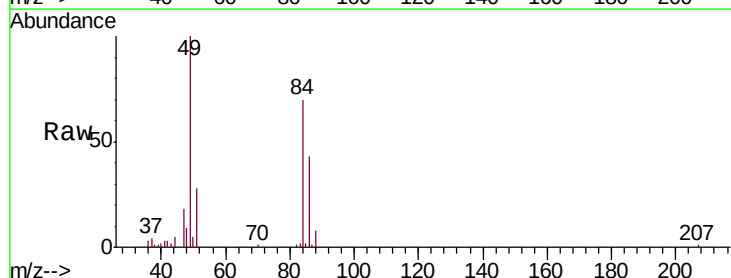
Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

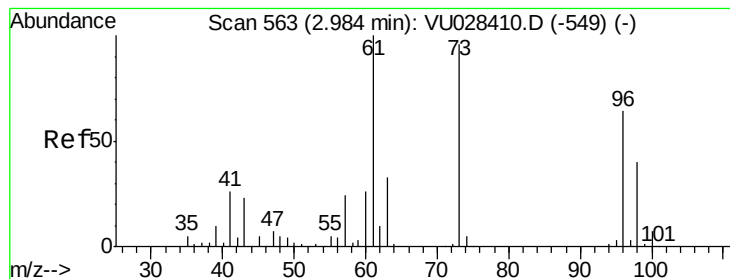
Tgt Ion: 43 Resp: 27598
Ion Ratio Lower Upper
43 100
74 21.0 16.2 24.4



#16
Methylene chloride
Concen: 4.839 ug/L
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Tgt Ion: 84 Resp: 19921
Ion Ratio Lower Upper
84 100
86 61.5 45.6 84.8
49 143.1 101.3 188.1





#17

trans-1,2-Dichloroethene

Concen: 4.796 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

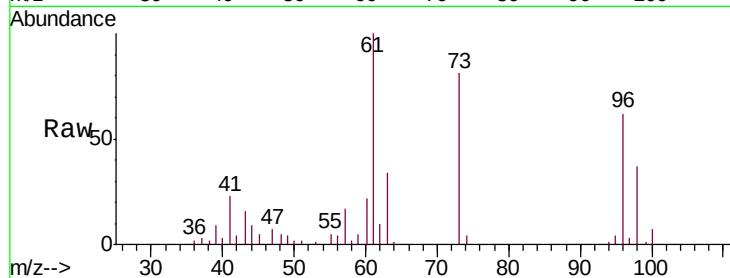
Tgt Ion: 96 Resp: 17284

Ion Ratio Lower Upper

96 100

61 162.2 109.5 203.3

98 59.9 43.3 80.5

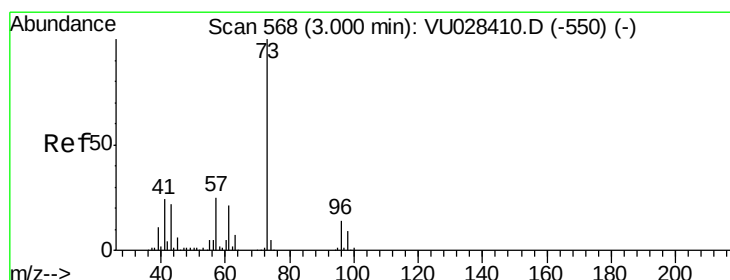
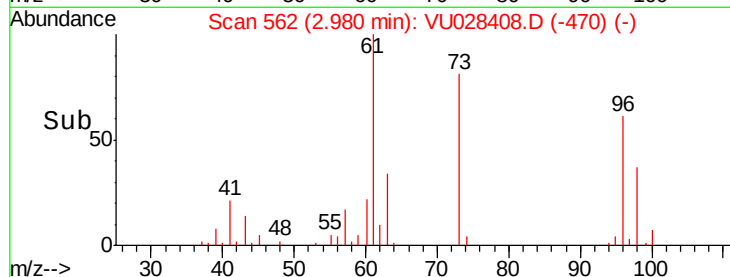
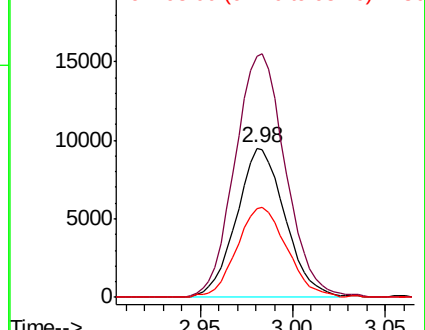


Abundance

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: 4.947 ug/L

RT: 3.00 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

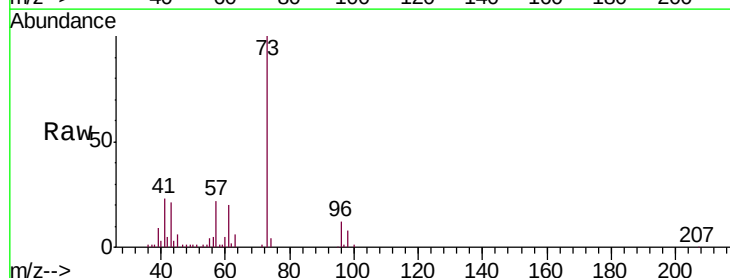
Tgt Ion: 73 Resp: 61960

Ion Ratio Lower Upper

73 100

43 23.2 17.9 26.9

57 21.7 19.7 29.5

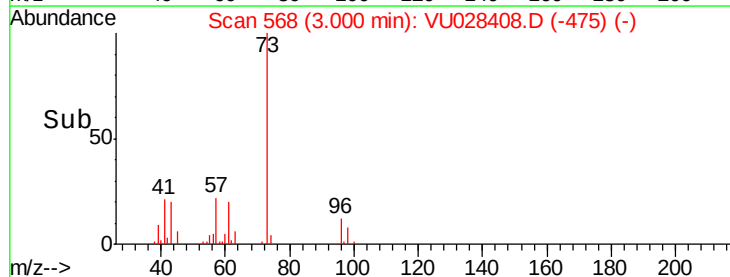
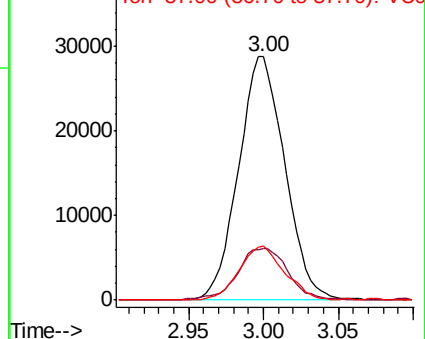


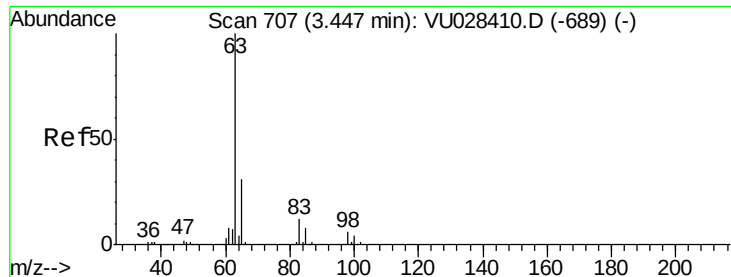
Abundance

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

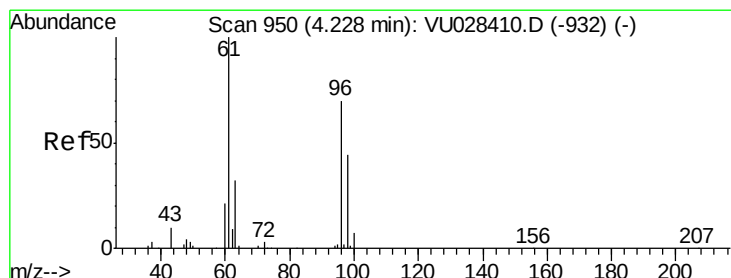
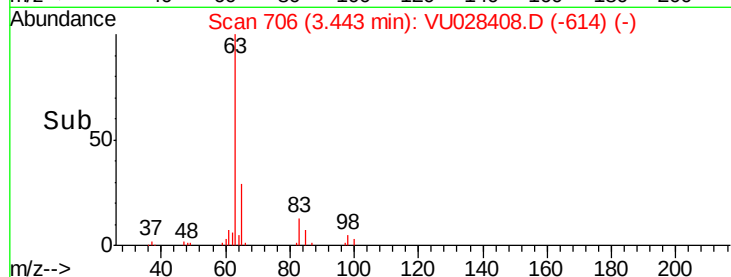
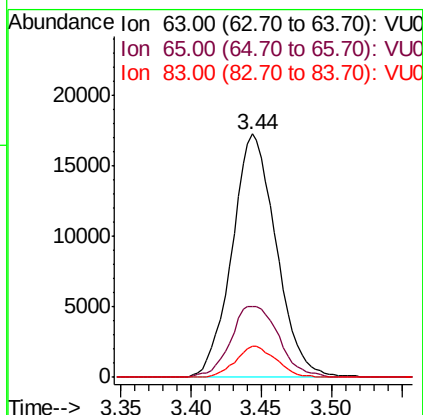
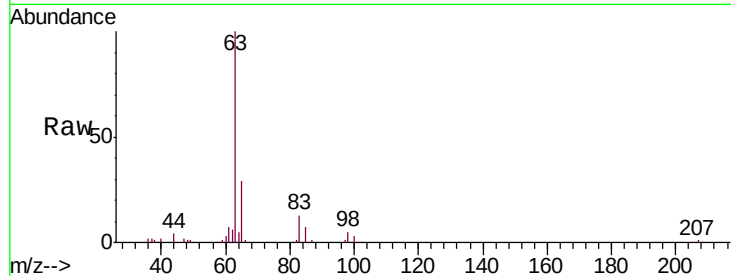




#19
 1,1-Dichloroethane
 Concen: 4.856 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

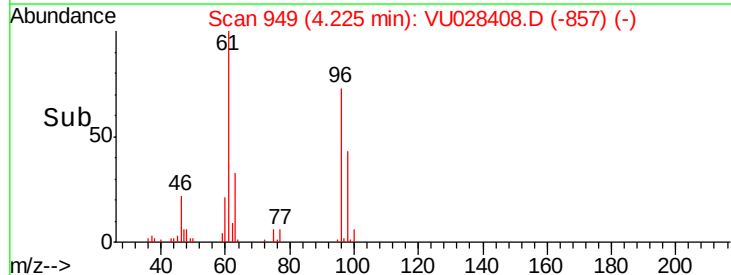
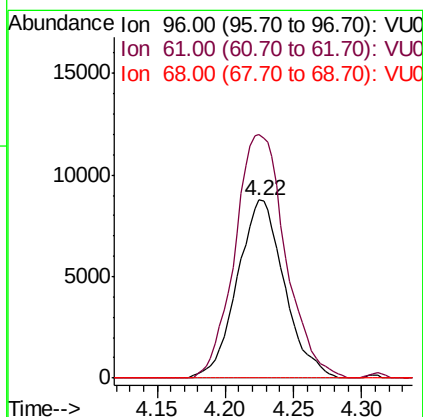
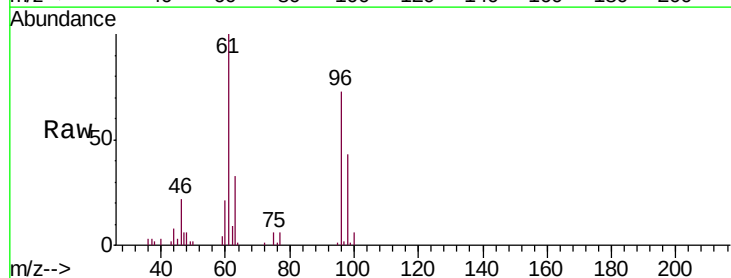
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

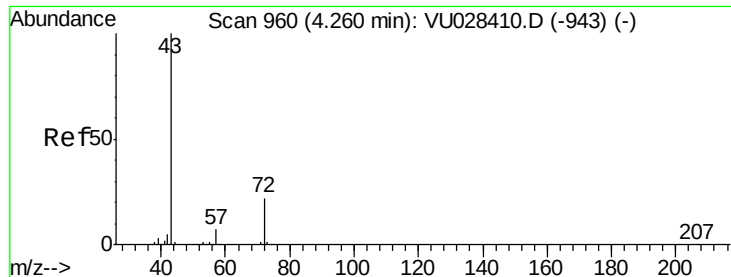
Tgt Ion: 63 Resp: 37806
 Ion Ratio Lower Upper
 63 100
 65 29.3 21.6 40.0
 83 13.0 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 5.076 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Tgt Ion: 96 Resp: 21041
 Ion Ratio Lower Upper
 96 100
 61 136.9 99.8 185.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 10.079 ug/L

RT: 4.27 min Scan# 962

Delta R.T. 0.01 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

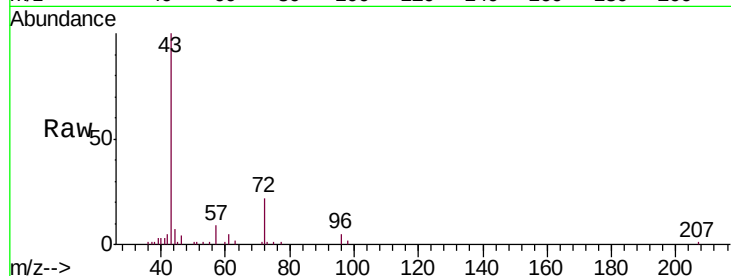
VSTD00553

Tgt Ion: 43 Resp: 48568

Ion Ratio Lower Upper

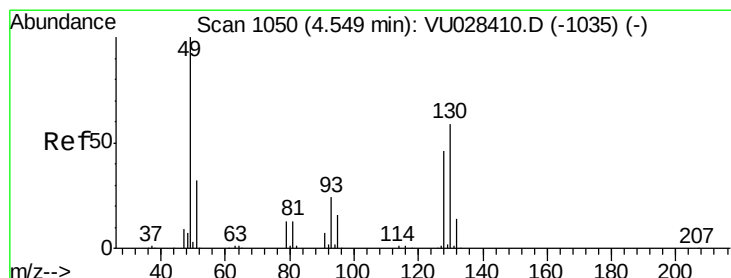
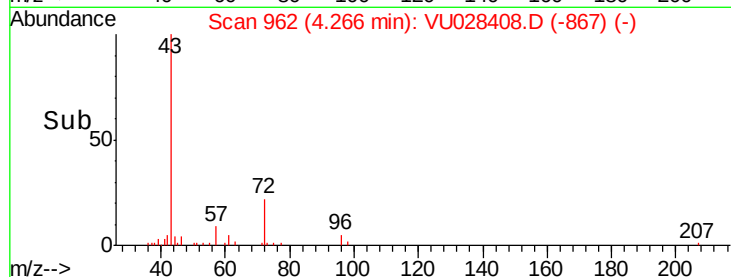
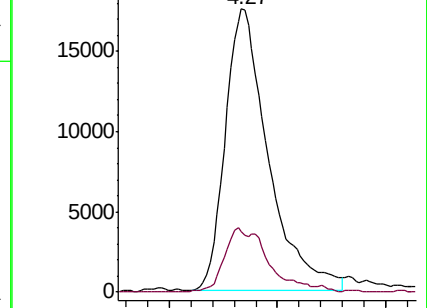
43 100

72 11.7 11.3 33.9



Abundance Ion 43.00 (42.70 to 43.70): VU028410.D (-943) (-)

Ion 72.00 (71.70 to 72.70): VU028410.D (-943) (-)



#23

Bromochloromethane

Concen: 5.018 ug/L

RT: 4.55 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Tgt Ion: 128 Resp: 9100

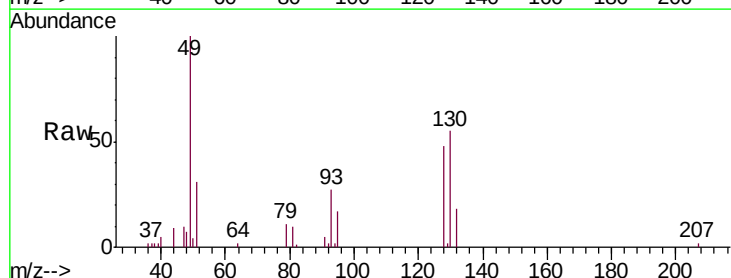
Ion Ratio Lower Upper

128 100

49 208.1 152.5 283.3

130 114.8 89.8 166.8

51 64.0 56.2 84.2

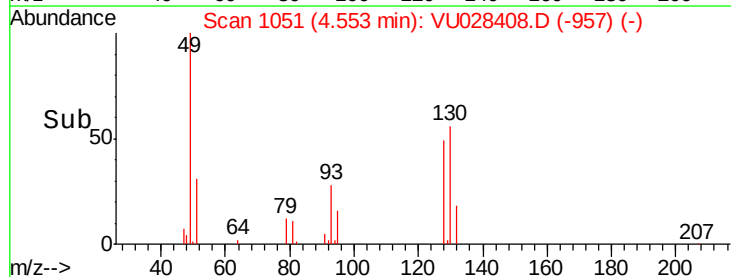
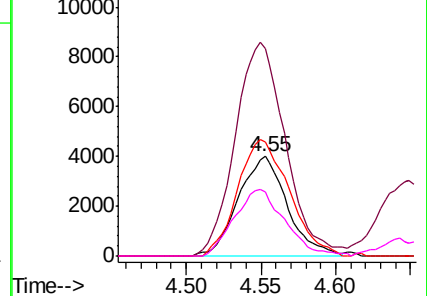


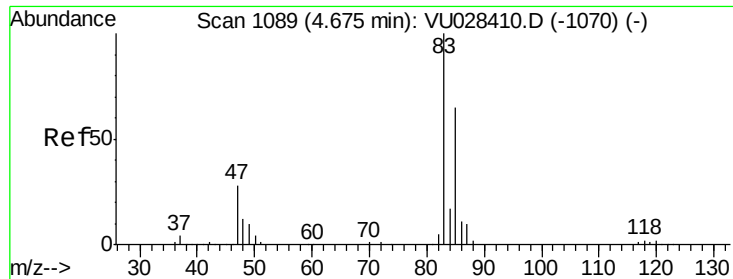
Abundance Ion 128.00 (127.70 to 128.70): VU028408.D (-957) (-)

Ion 49.00 (48.70 to 49.70): VU028408.D (-957) (-)

Ion 130.00 (129.70 to 130.70): VU028408.D (-957) (-)

Ion 51.00 (50.70 to 51.70): VU028408.D (-957) (-)

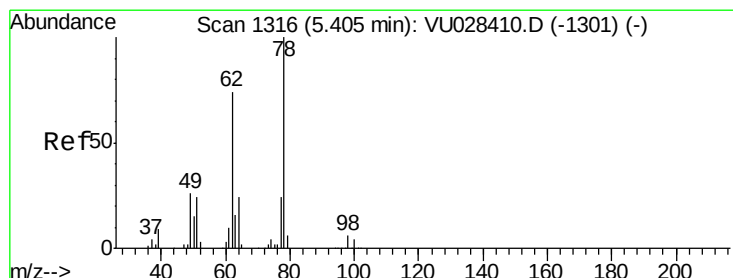
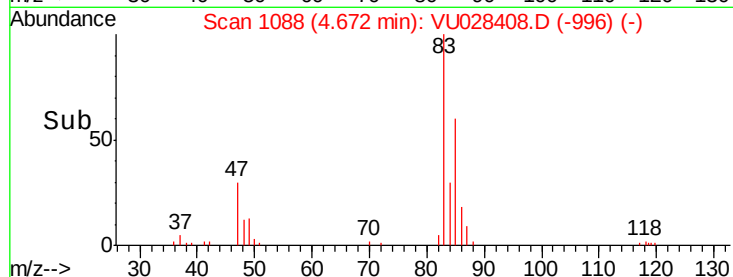
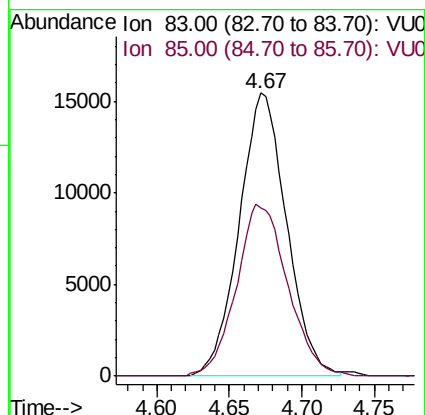
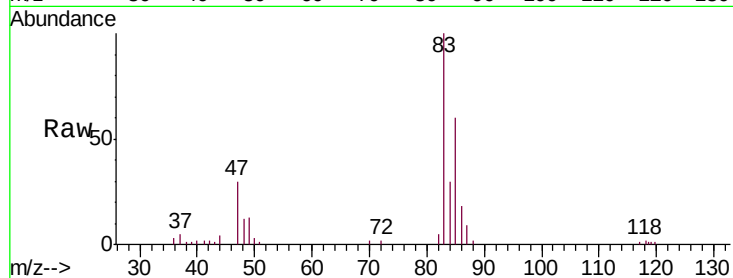




#25
Chloroform
Concen: 4.934 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

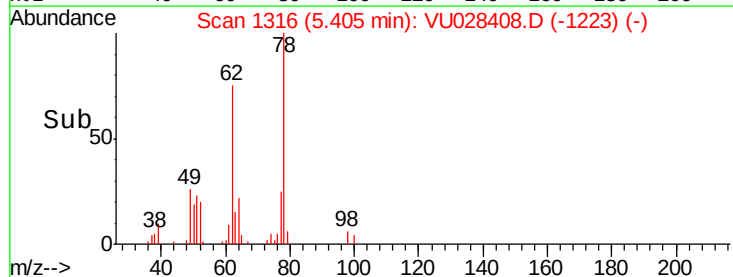
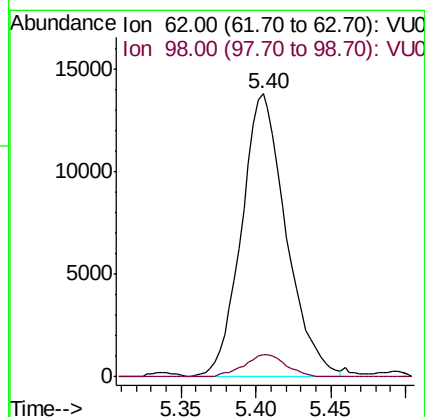
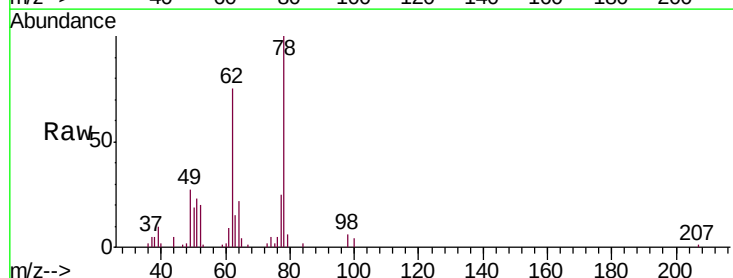
Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

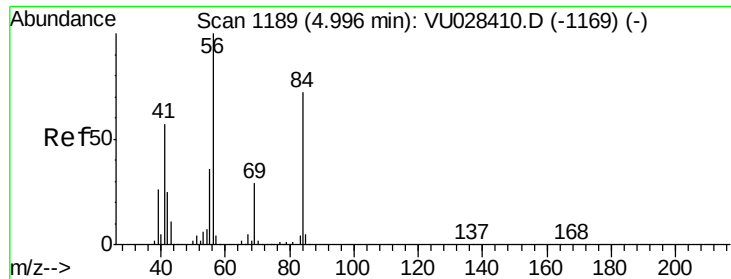
Tgt Ion: 83 Resp: 35169
Ion Ratio Lower Upper
83 100
85 59.6 45.7 84.9



#27
1,2-Dichloroethane
Concen: 4.870 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Tgt Ion: 62 Resp: 28736
Ion Ratio Lower Upper
62 100
98 8.0 6.7 10.1

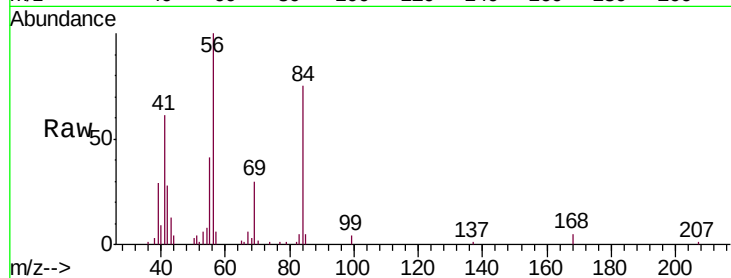




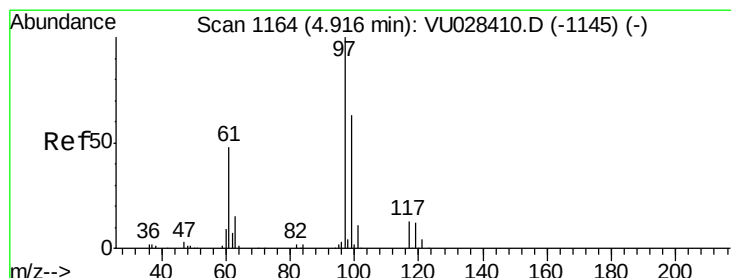
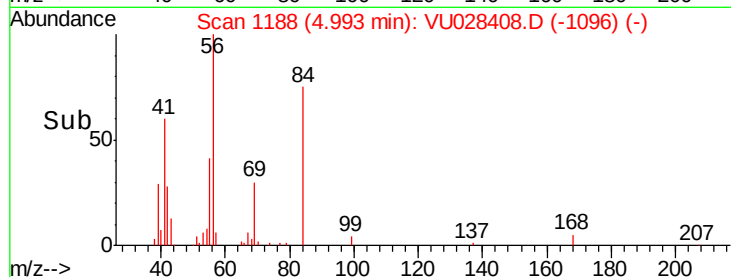
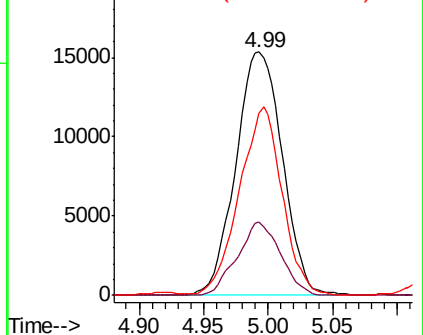
#29
Cyclohexane
Concen: 5.019 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Tgt Ion: 56 Resp: 38665
Ion Ratio Lower Upper
56 100
69 27.7 22.5 33.7
84 71.1 56.6 85.0

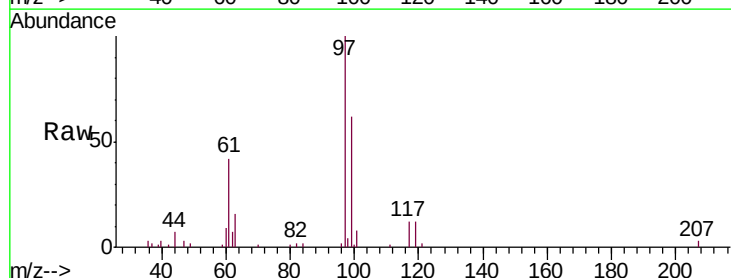


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

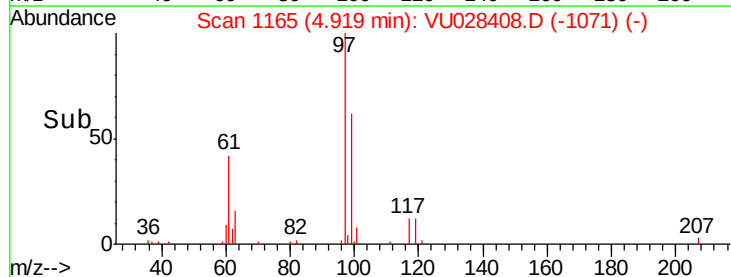
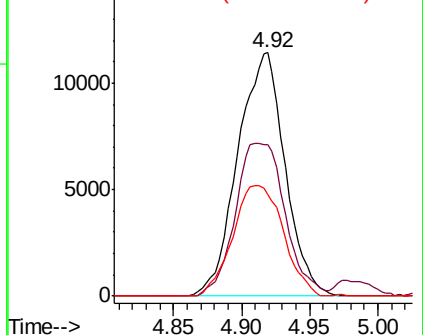


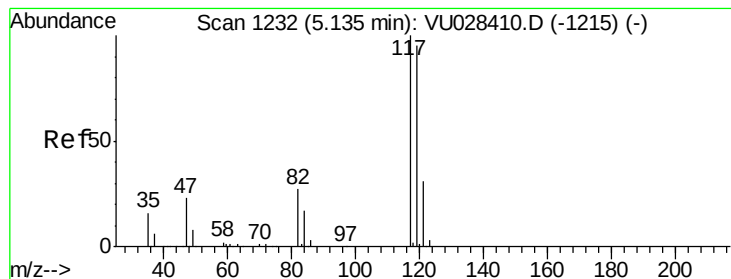
#30
1,1,1-Trichloroethane
Concen: 4.887 ug/L
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Tgt Ion: 97 Resp: 27456
Ion Ratio Lower Upper
97 100
99 66.3 51.4 77.0
61 48.6 39.3 58.9



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 4.842 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

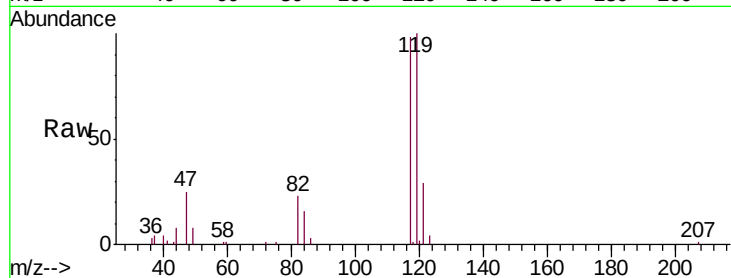
VSTD00553

Tgt Ion:117 Resp: 21910

Ion Ratio Lower Upper

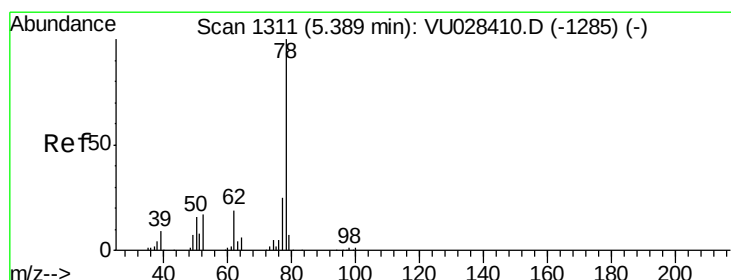
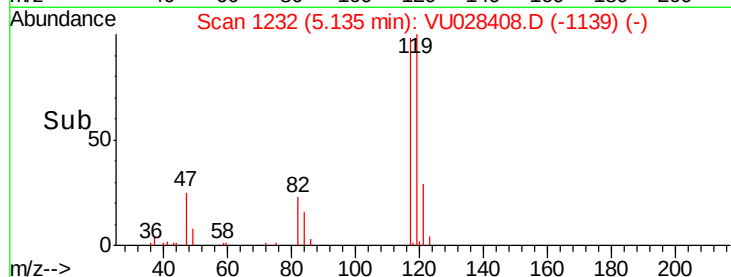
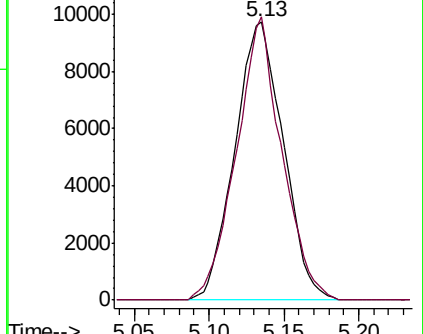
117 100

119 95.8 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.928 ug/L

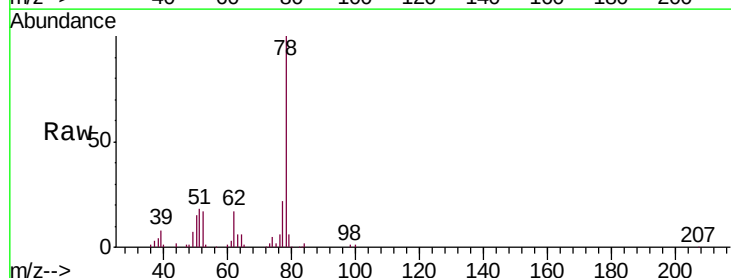
RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

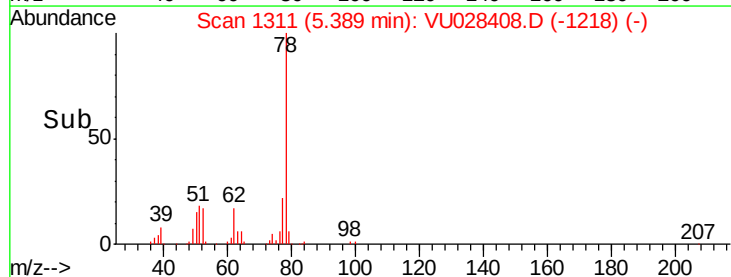
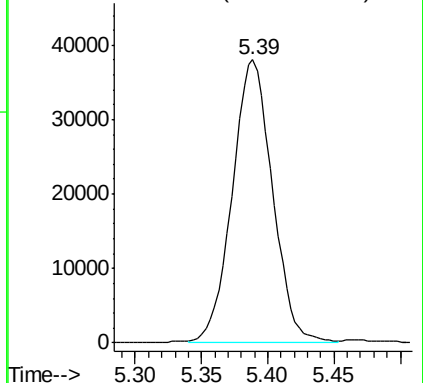
Lab File: VU028408.D

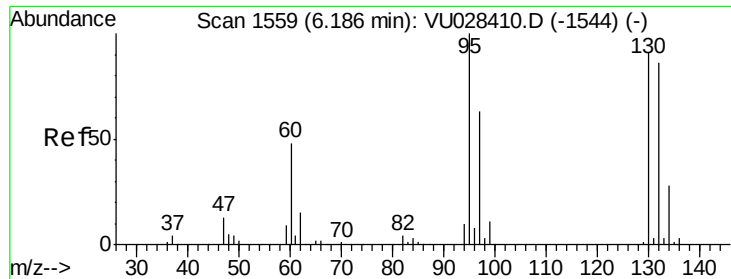
Acq: 30 Nov 2018 09:04

Tgt Ion: 78 Resp: 80350



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 5.045 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

Tgt Ion: 95 Resp: 19668

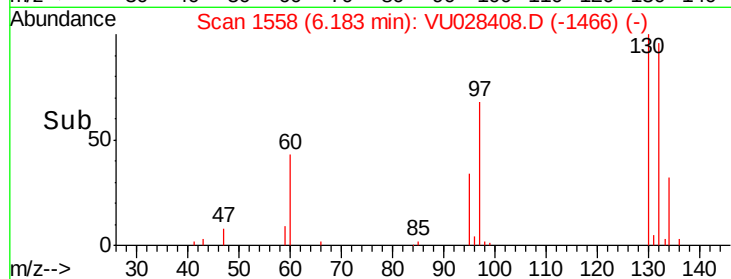
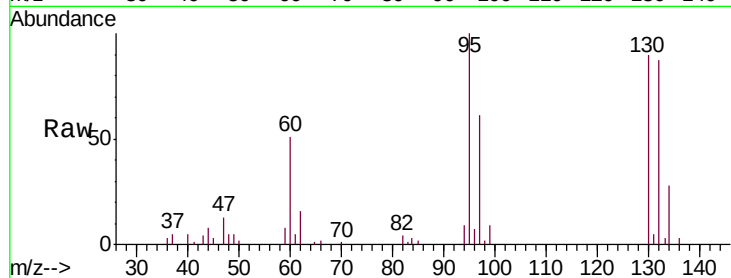
Ion Ratio Lower Upper

95 100

97 60.8 44.1 81.9

132 86.7 60.2 111.8

130 90.0 63.5 117.9



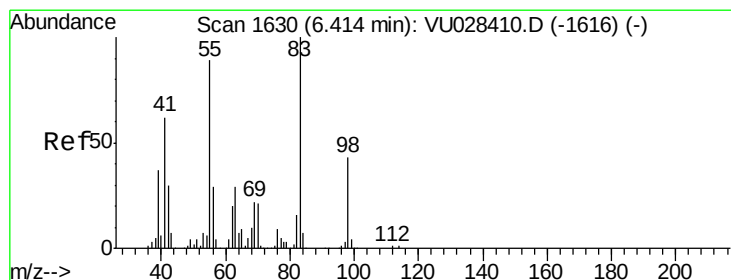
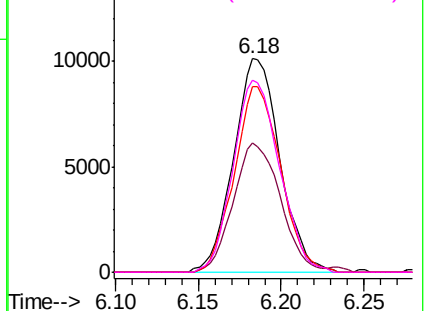
Abundance

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: 5.105 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

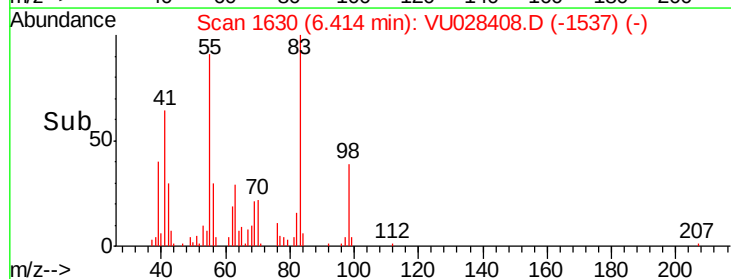
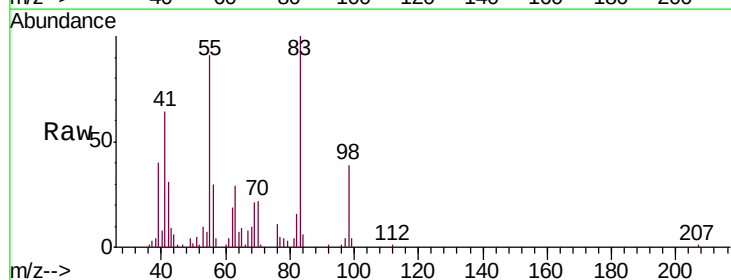
Tgt Ion: 83 Resp: 34647

Ion Ratio Lower Upper

83 100

55 88.3 70.5 105.7

98 41.1 34.6 52.0

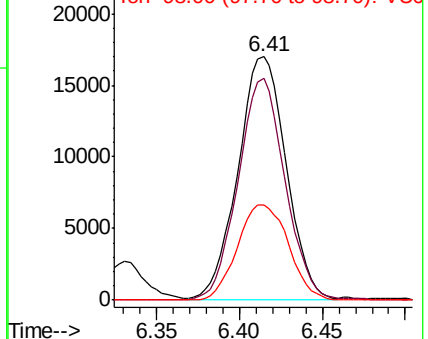


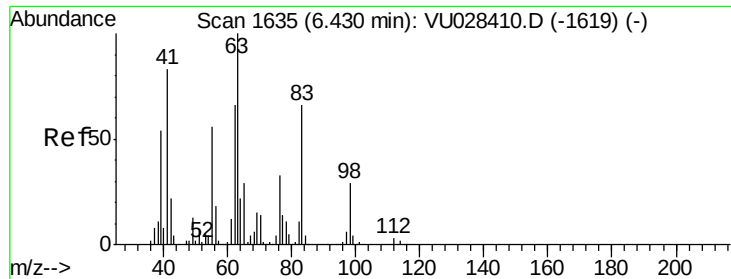
Abundance

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

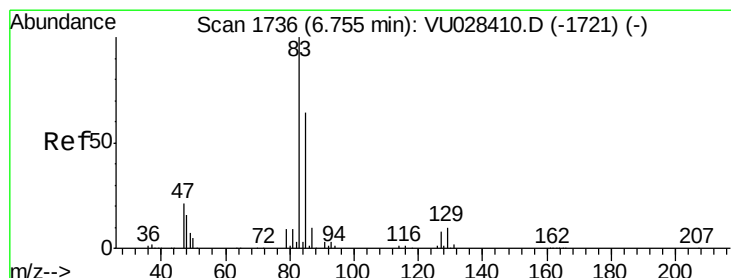
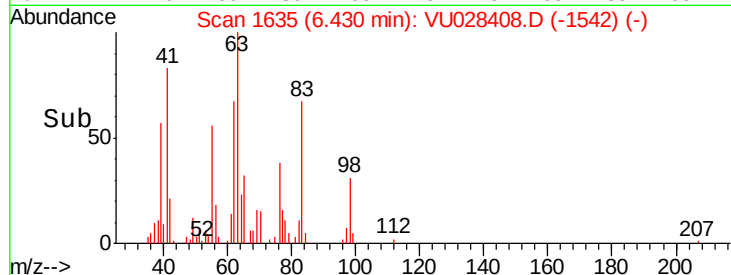
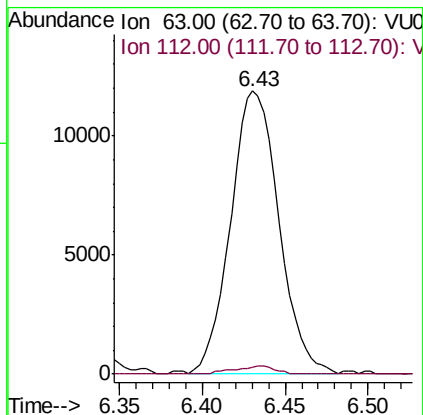
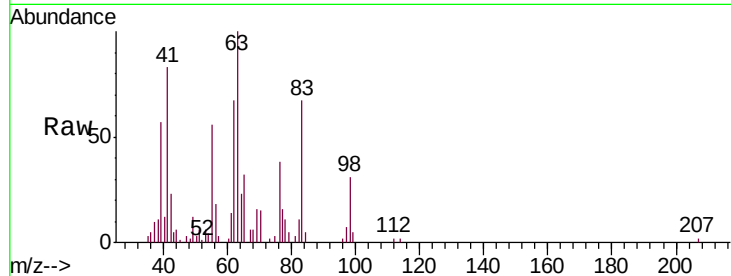




#37
 1,2-Dichloropropane
 Concen: 4.976 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

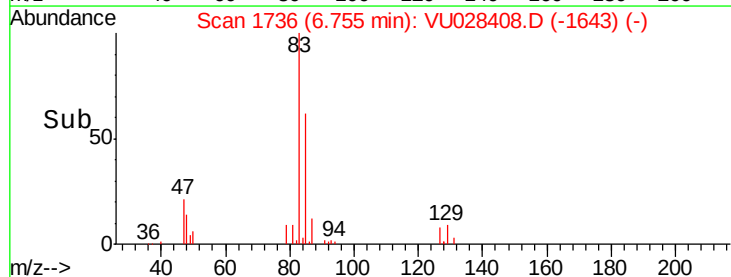
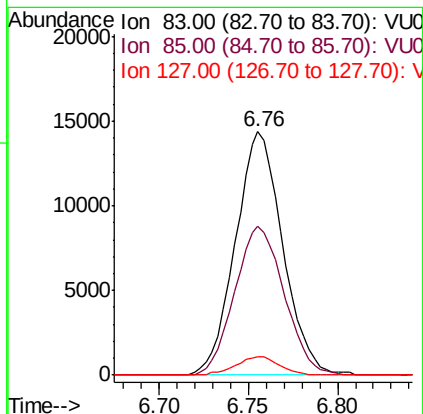
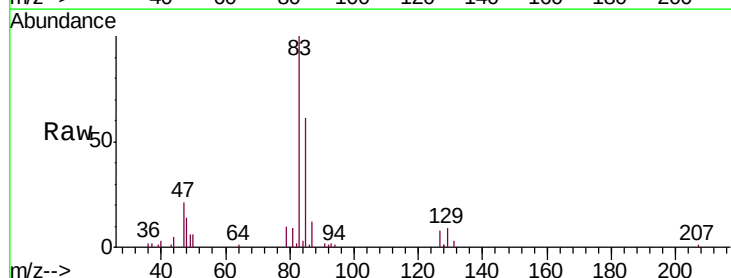
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

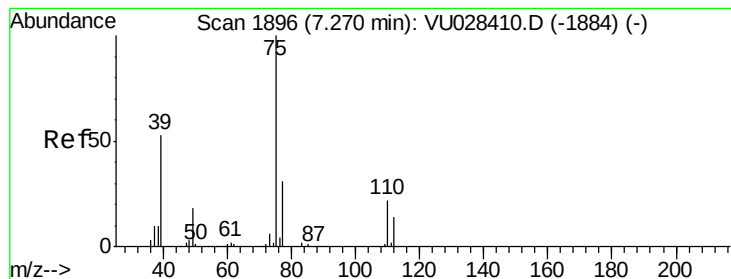
Tgt Ion: 63 Resp: 24058
 Ion Ratio Lower Upper
 63 100
 112 2.4 2.6 3.8#



#38
 Bromodichloromethane
 Concen: 4.944 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Tgt Ion: 83 Resp: 26522
 Ion Ratio Lower Upper
 83 100
 85 60.9 44.9 83.3
 127 7.6 6.0 9.0



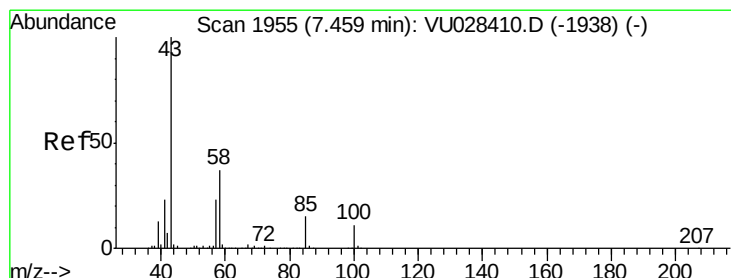
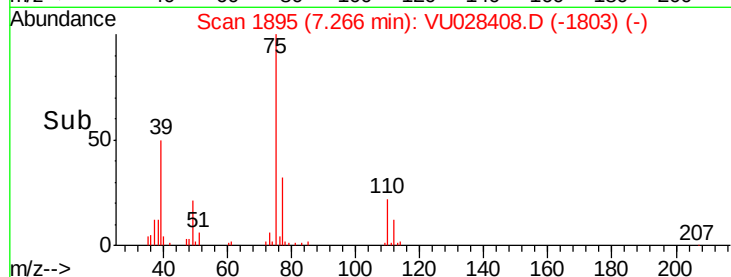
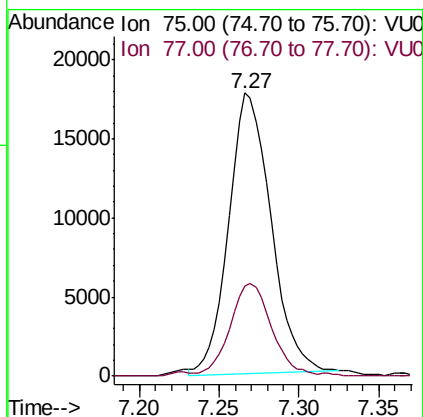
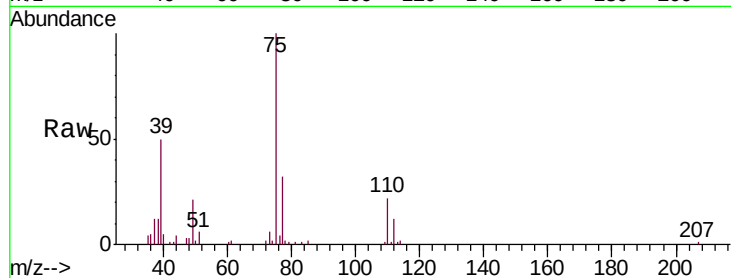


#39

cis-1,3-Dichloropropene
 Concen: 4.634 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

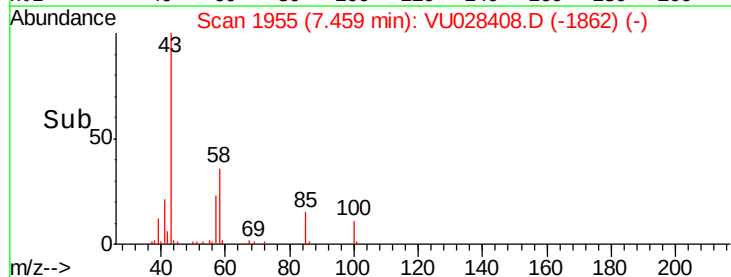
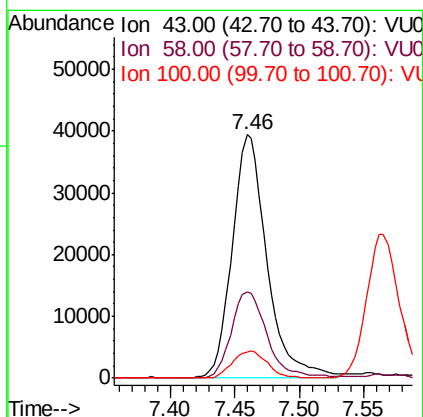
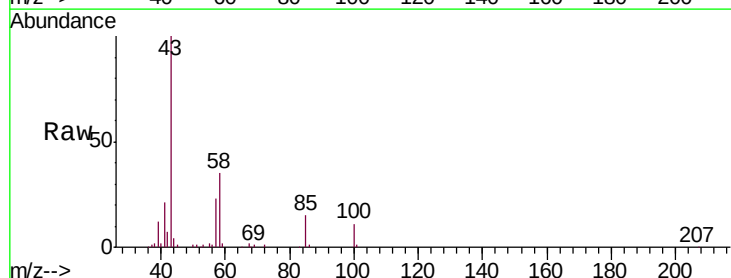
Tgt Ion: 75 Resp: 31808
 Ion Ratio Lower Upper
 75 100
 77 31.8 21.9 40.7

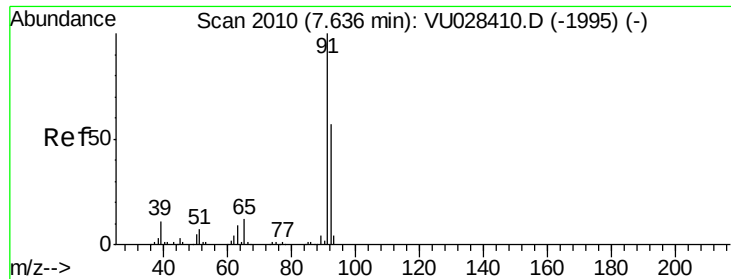


#40

4-Methyl-2-pentanone
 Concen: 9.685 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Tgt Ion: 43 Resp: 74048
 Ion Ratio Lower Upper
 43 100
 58 35.9 29.9 44.9
 100 11.3 8.7 13.1





#42

Toluene

Concen: 4.815 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

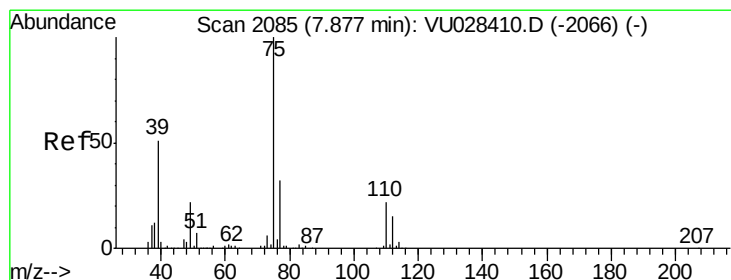
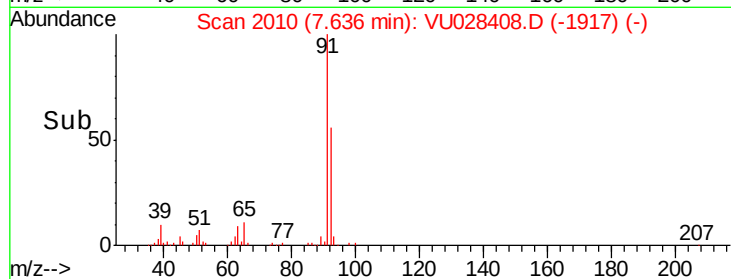
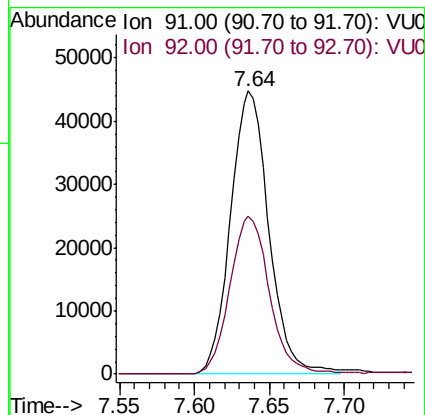
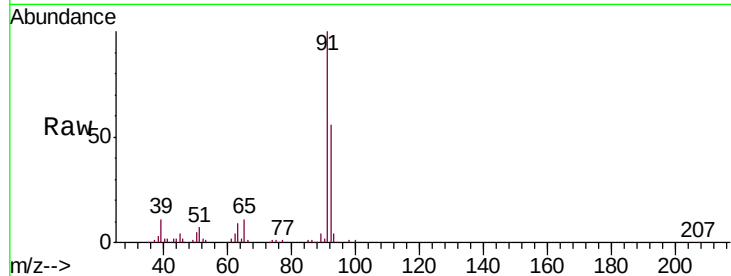
VSTD00553

Tgt Ion: 91 Resp: 79890

Ion Ratio Lower Upper

91 100

92 56.0 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 4.695 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU028408.D

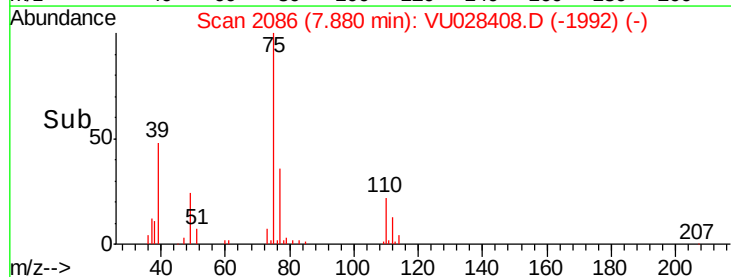
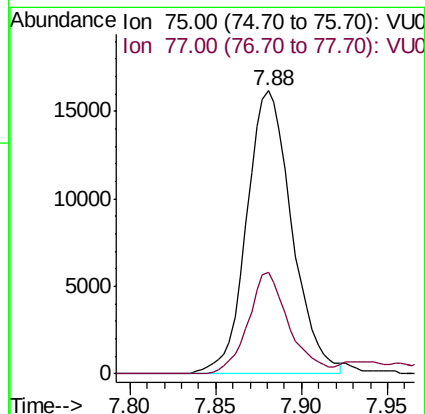
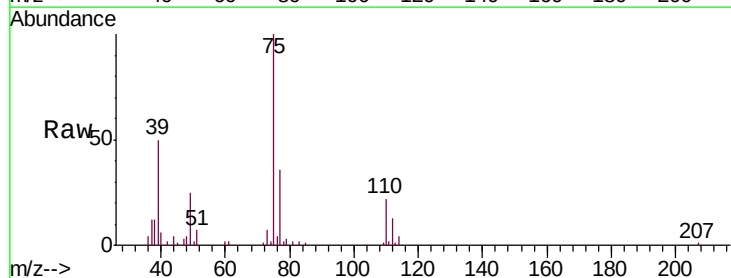
Acq: 30 Nov 2018 09:04

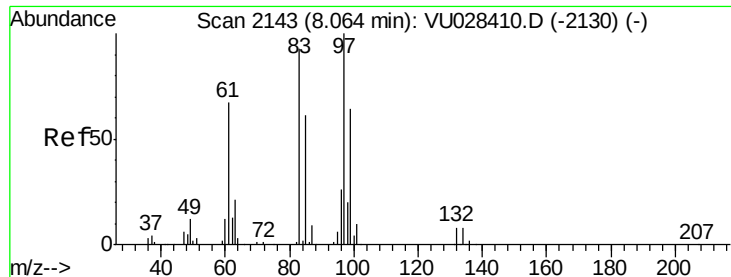
Tgt Ion: 75 Resp: 29531

Ion Ratio Lower Upper

75 100

77 35.8 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 4.863 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

Tgt Ion: 97 Resp: 18283

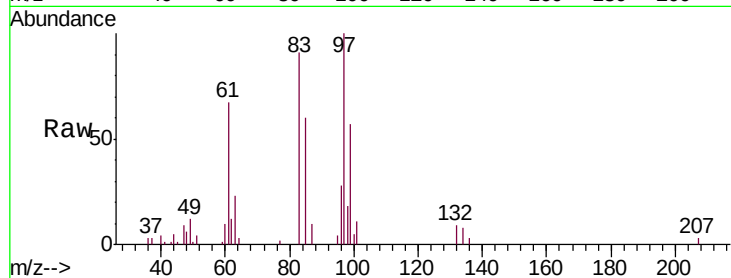
Ion Ratio Lower Upper

97 100

99 57.4 44.9 83.3

83 91.5 65.1 120.9

85 60.4 42.6 79.2

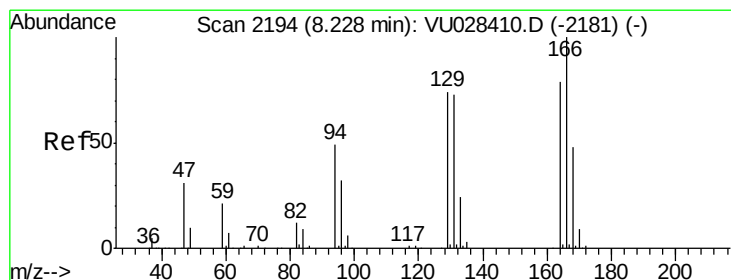
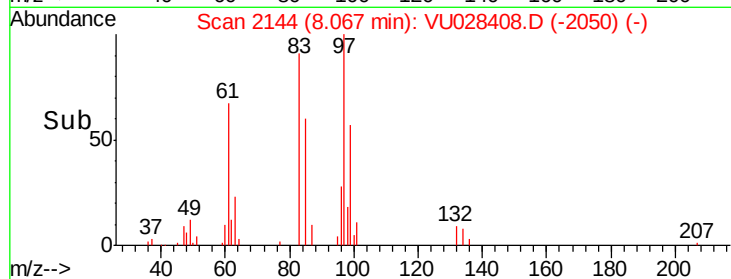
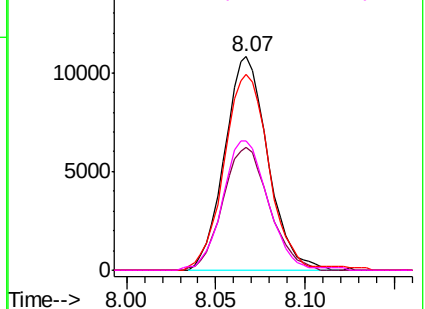


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 4.924 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Tgt Ion: 164 Resp: 13499

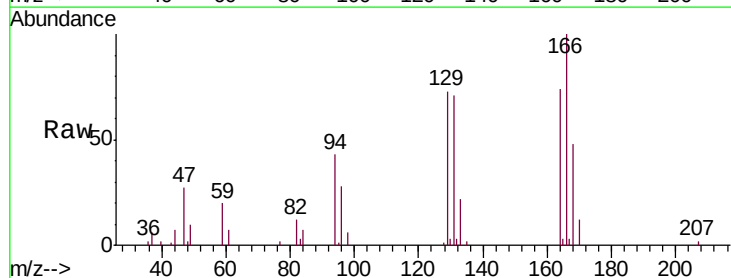
Ion Ratio Lower Upper

164 100

129 98.6 65.8 122.2

131 96.1 65.2 121.0

166 135.7 88.9 165.1

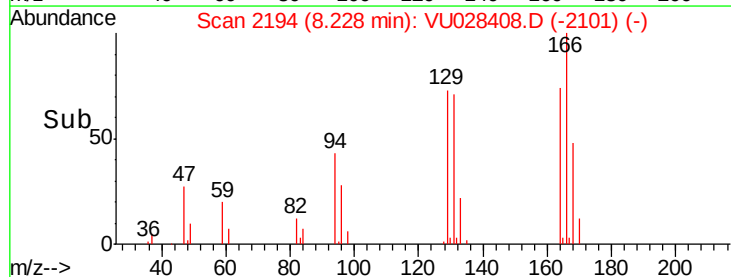
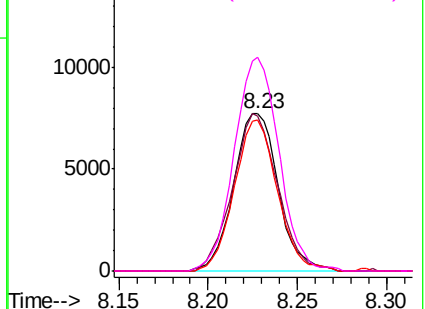


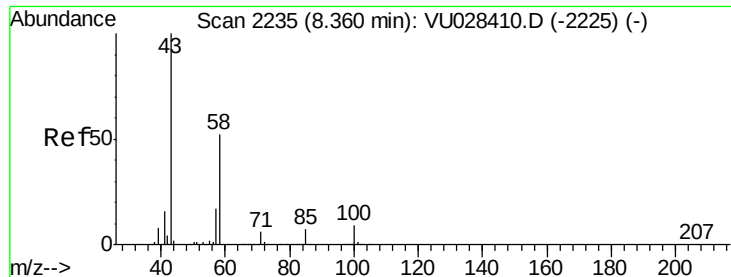
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

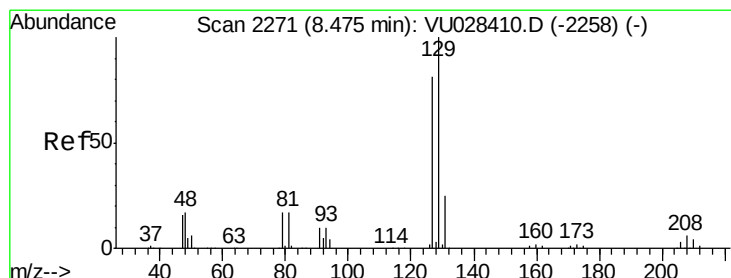
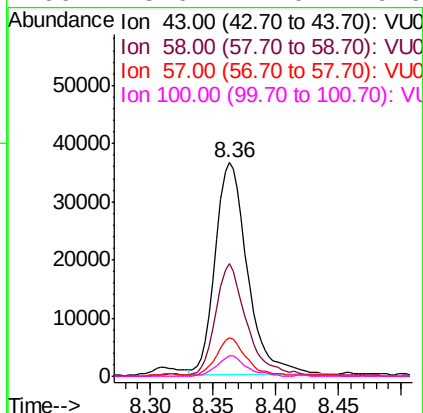
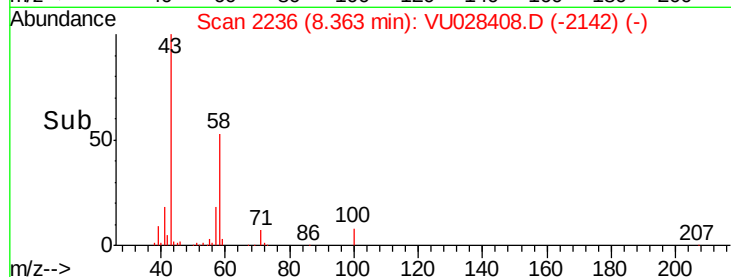
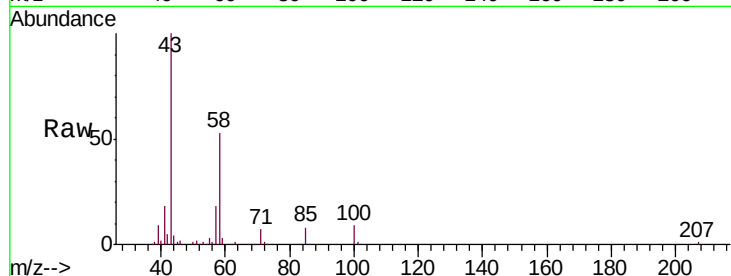




#48
2-Hexanone
Concen: 10.169 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

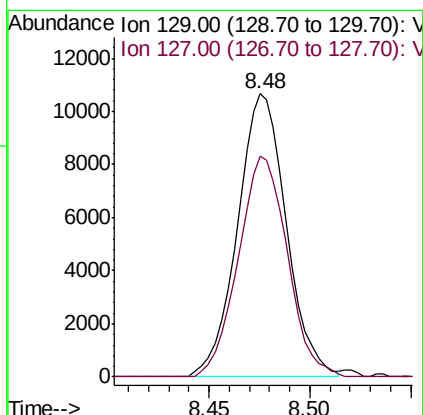
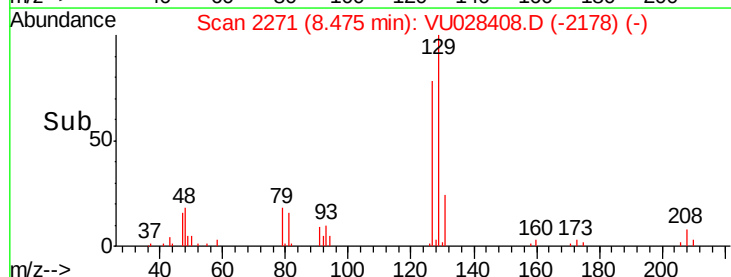
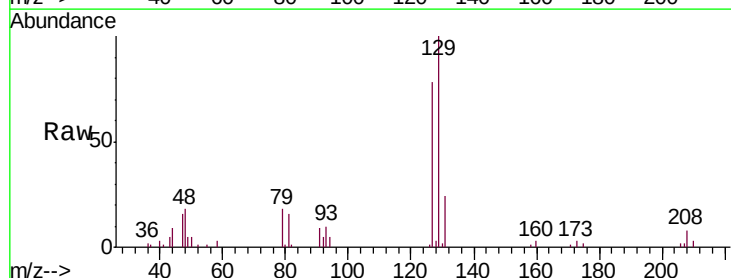
Instrument :
MSVOA_U
ClientSampled :
VSTD00553

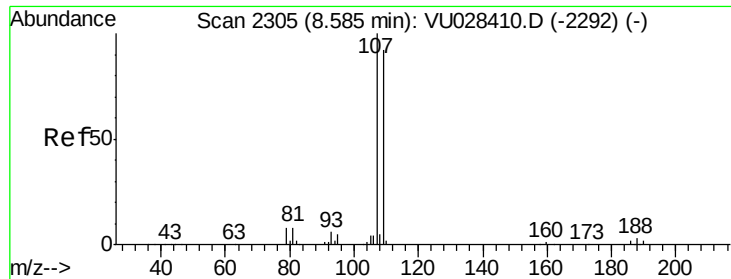
Tgt Ion: 43 Resp: 65323
Ion Ratio Lower Upper
43 100
58 48.5 41.4 62.0
57 16.3 14.0 21.0
100 8.6 7.0 10.6



#49
Dibromochloromethane
Concen: 4.702 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Tgt Ion: 129 Resp: 18082
Ion Ratio Lower Upper
129 100
127 77.9 56.8 105.4

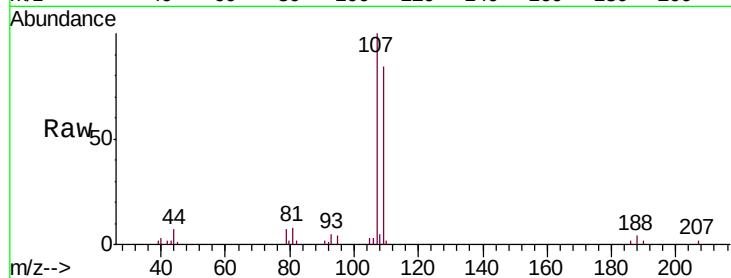




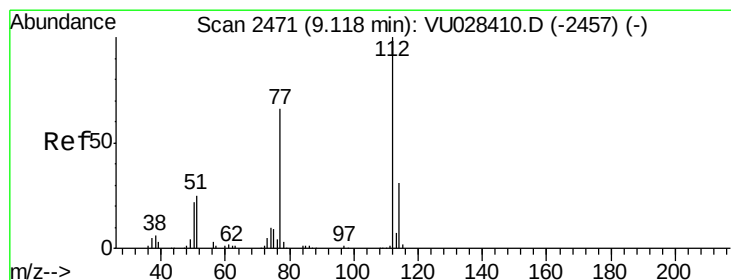
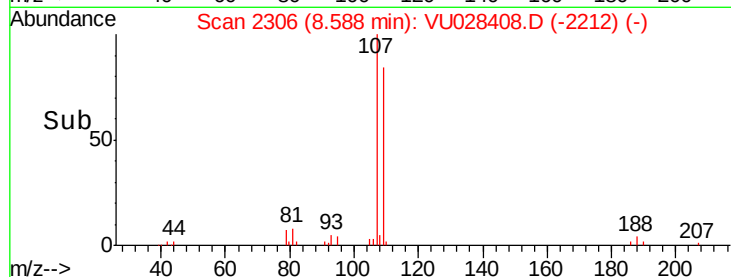
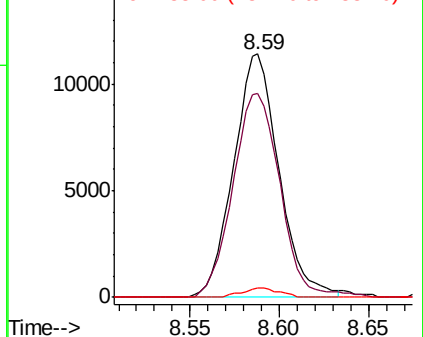
#50
1,2-Dibromoethane
Concen: 5.003 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00553

Tgt Ion:107 Resp: 20218
Ion Ratio Lower Upper
107 100
109 83.9 64.5 119.7
188 4.0 2.6 3.8#

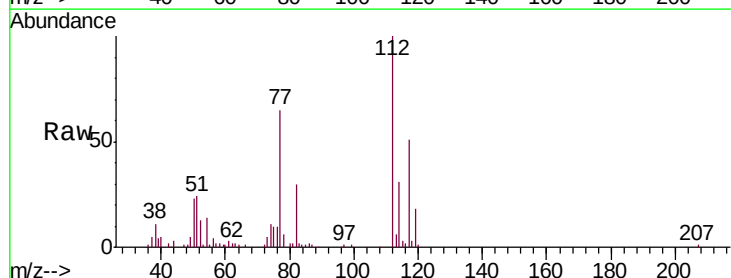


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

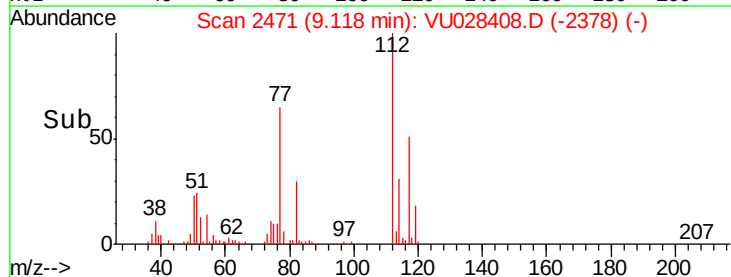
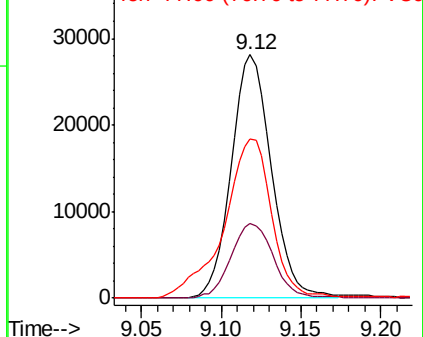


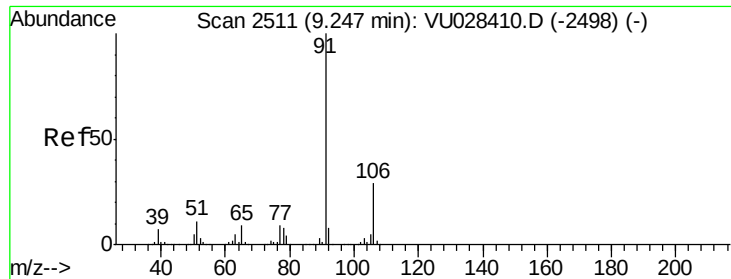
#51
Chlorobenzene
Concen: 4.864 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028408.D
Acq: 30 Nov 2018 09:04

Tgt Ion:112 Resp: 48146
Ion Ratio Lower Upper
112 100
114 30.7 21.6 40.0
77 65.3 53.0 79.6



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: 4.830 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

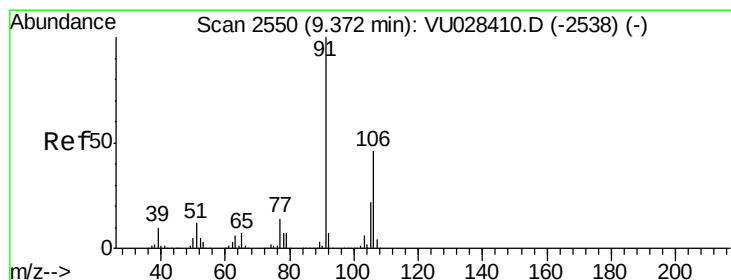
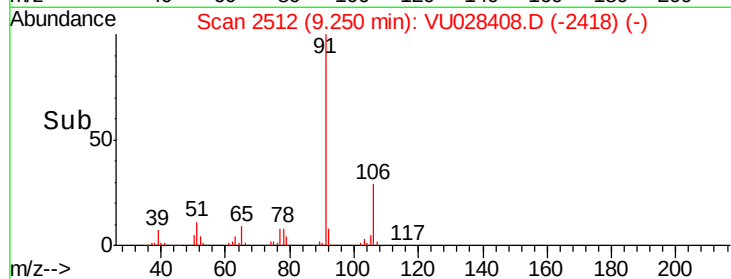
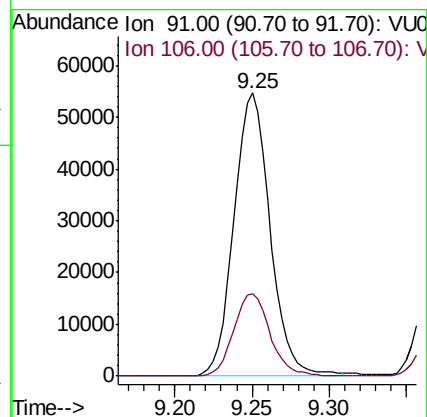
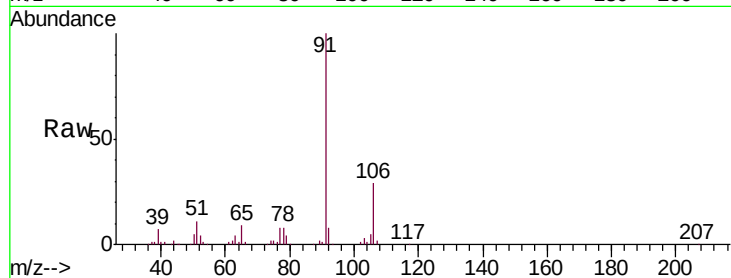
VSTD00553

Tgt Ion: 91 Resp: 88525

Ion Ratio Lower Upper

91 100

106 29.2 20.2 37.6



#53

m,p-Xylene

Concen: 4.775 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028408.D

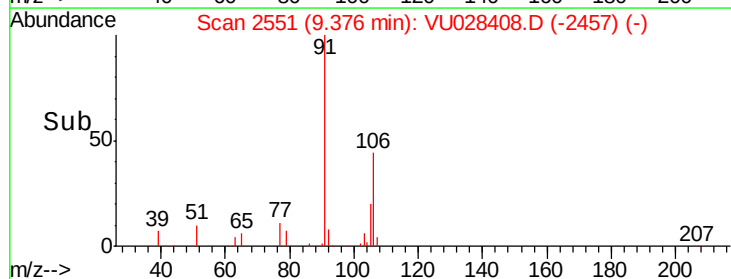
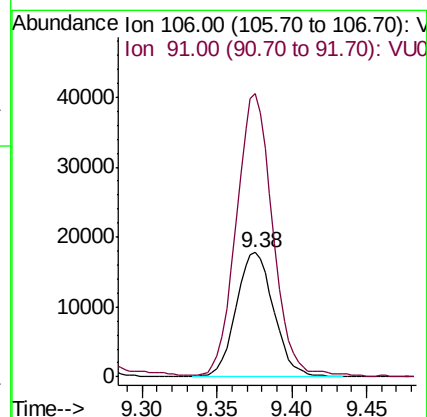
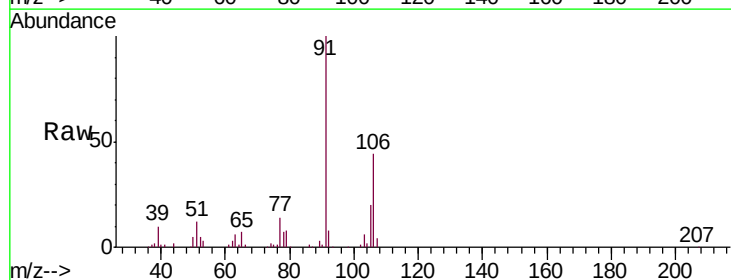
Acq: 30 Nov 2018 09:04

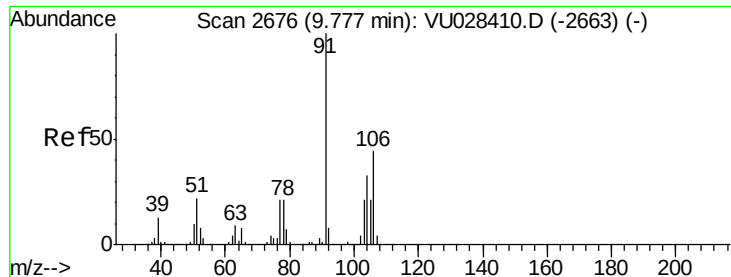
Tgt Ion: 106 Resp: 31219

Ion Ratio Lower Upper

106 100

91 227.8 152.9 283.9





#54

o-xylene

Concen: 4.778 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

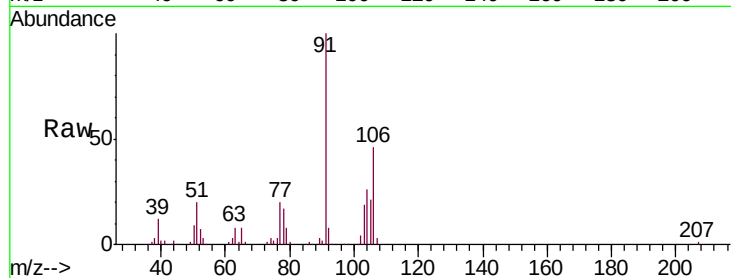
VSTD00553

Tgt Ion:106 Resp: 30938

Ion Ratio Lower Upper

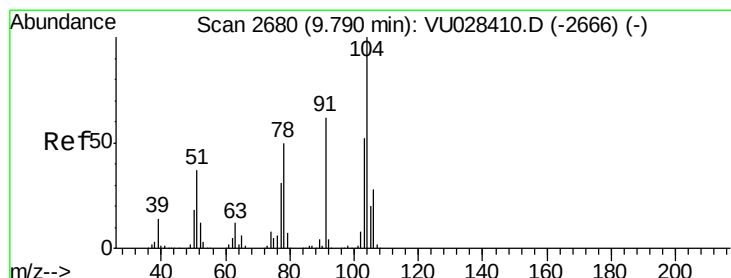
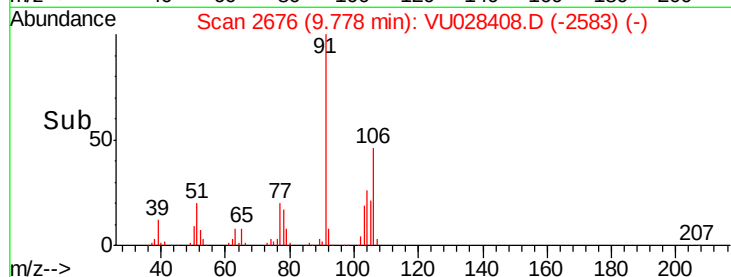
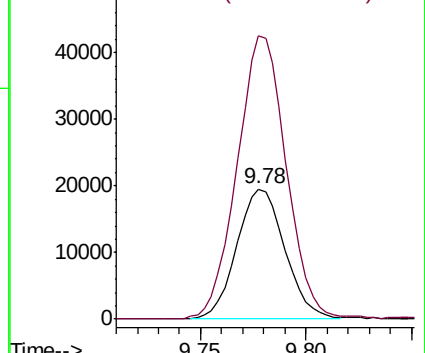
106 100

91 217.3 158.4 294.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.697 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU028408.D

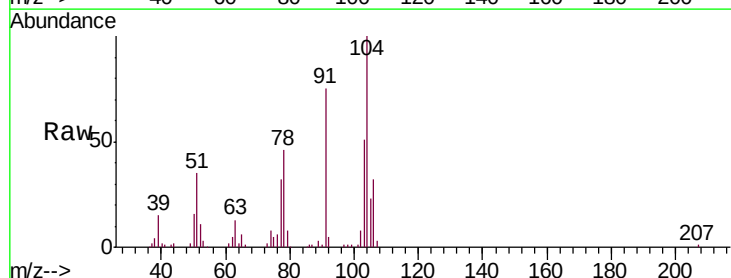
Acq: 30 Nov 2018 09:04

Tgt Ion:104 Resp: 52108

Ion Ratio Lower Upper

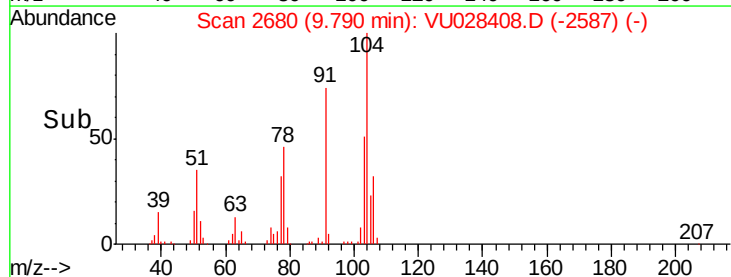
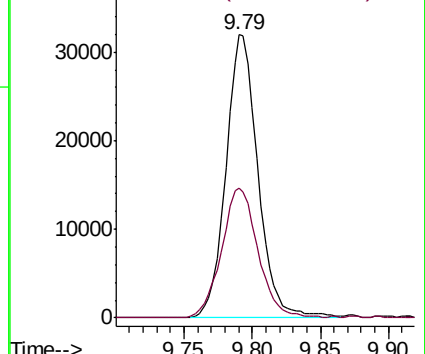
104 100

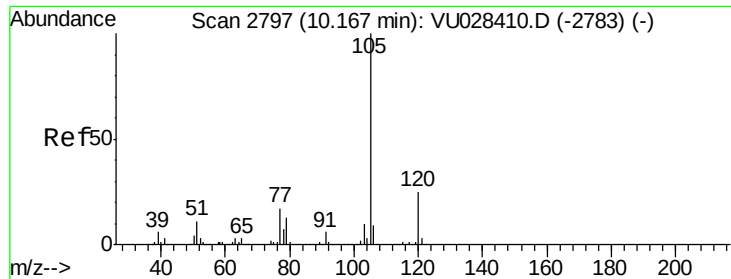
78 46.0 35.0 65.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 4.835 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

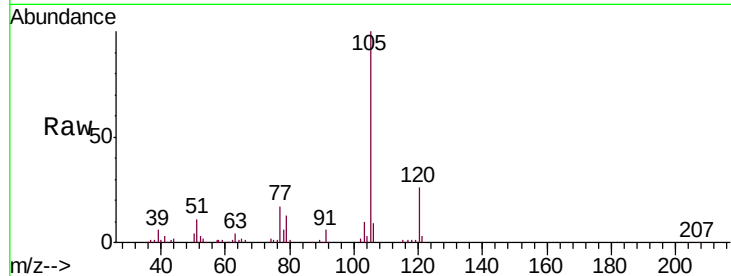
Tgt Ion: 105 Resp: 82595

Ion Ratio Lower Upper

105 100

120 25.2 20.1 30.1

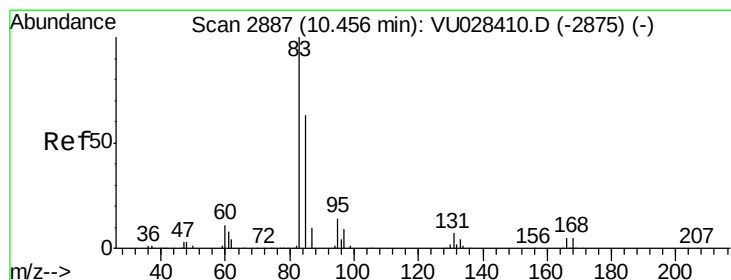
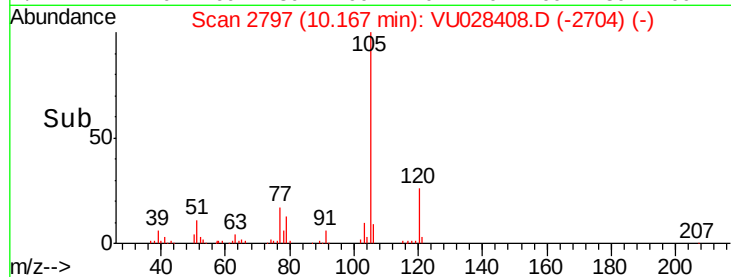
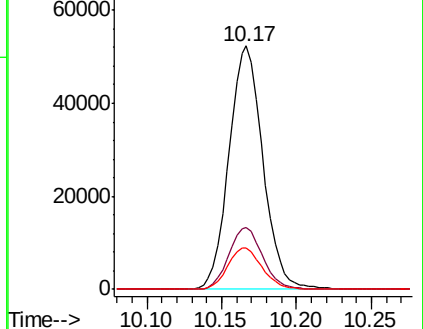
77 17.2 13.4 20.0



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: 4.789 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

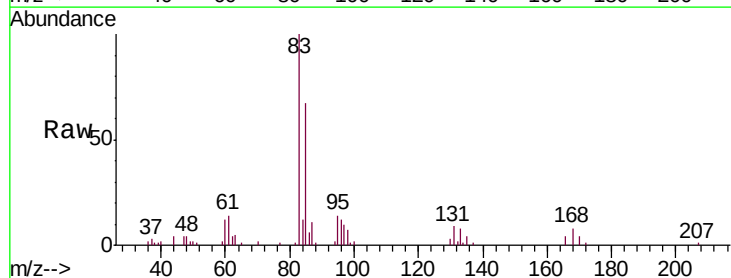
Tgt Ion: 83 Resp: 33587

Ion Ratio Lower Upper

83 100

85 66.9 44.7 83.1

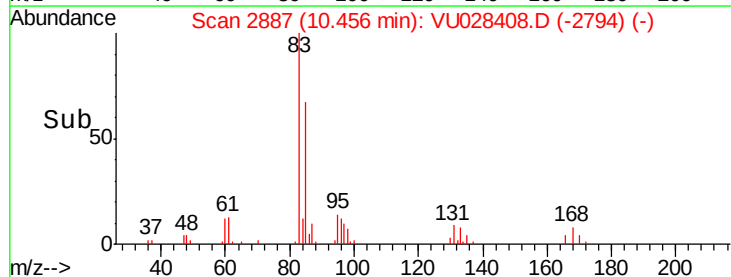
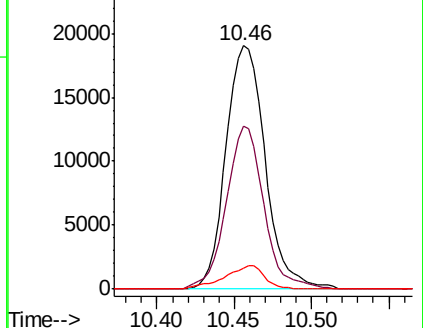
131 8.7 6.5 9.7

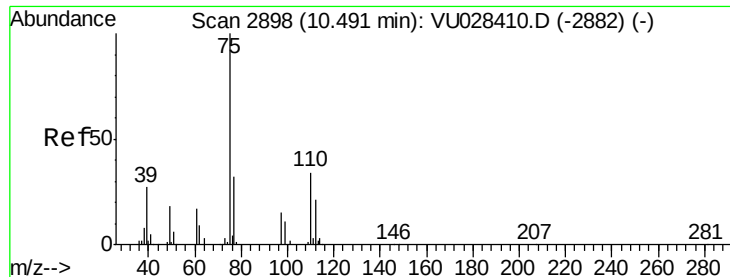


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.913 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

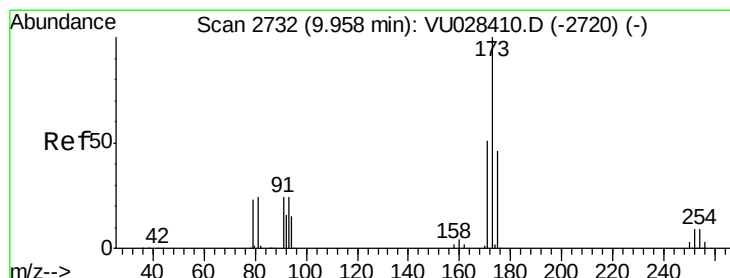
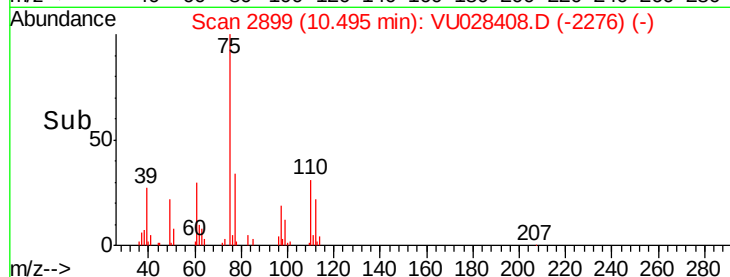
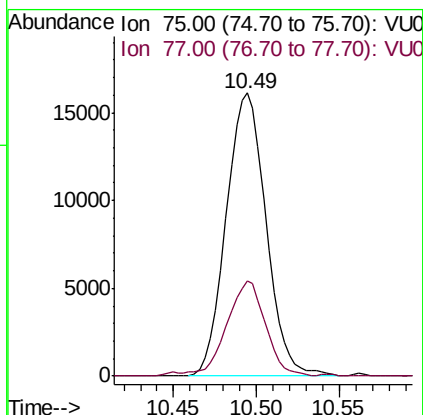
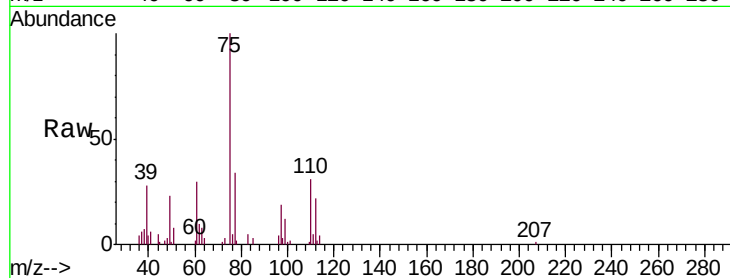
VSTD00553

Tgt Ion: 75 Resp: 26958

Ion Ratio Lower Upper

75 100

77 32.5 25.6 38.4



#61

Bromoform

Concen: 5.170 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

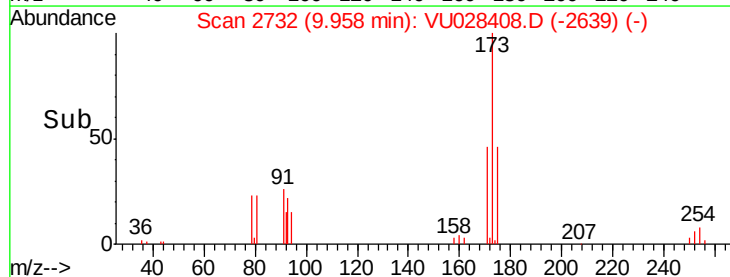
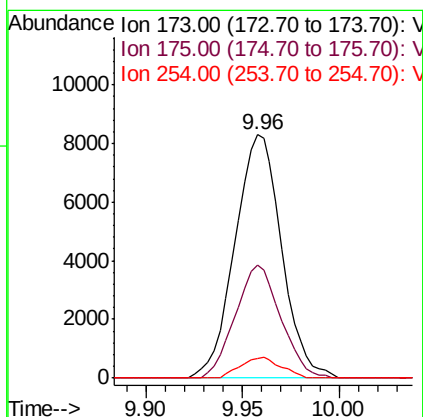
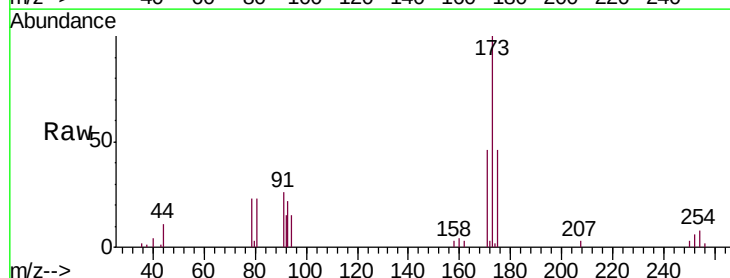
Tgt Ion: 173 Resp: 13929

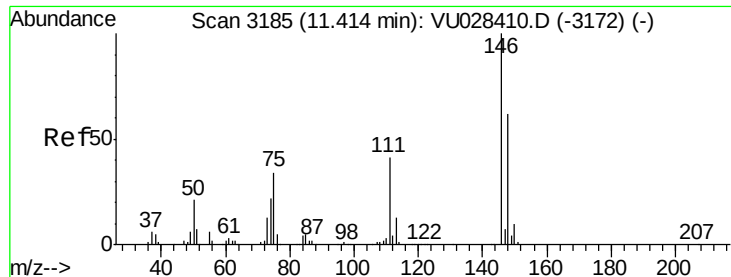
Ion Ratio Lower Upper

173 100

175 45.1 38.1 57.1

254 7.5 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 5.118 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

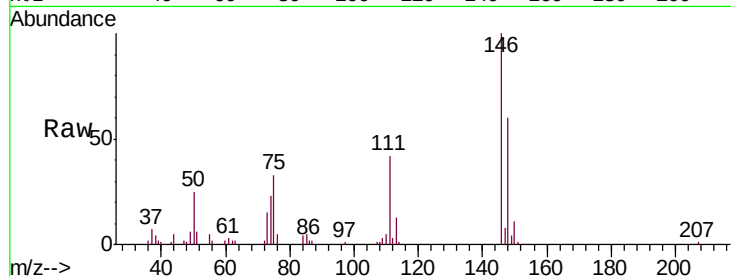
Tgt Ion:146 Resp: 36535

Ion Ratio Lower Upper

146 100

111 41.6 28.8 53.4

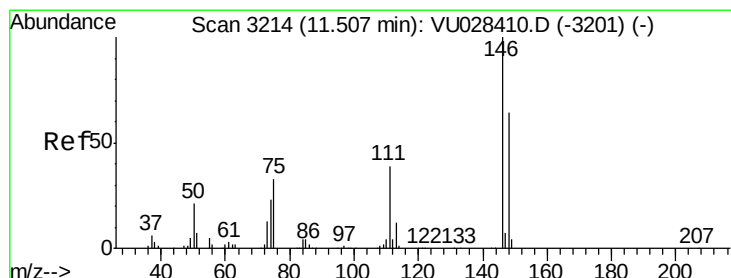
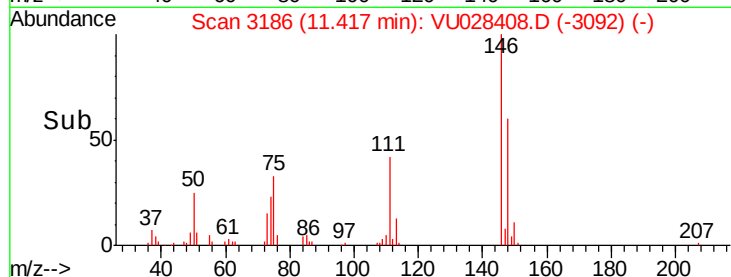
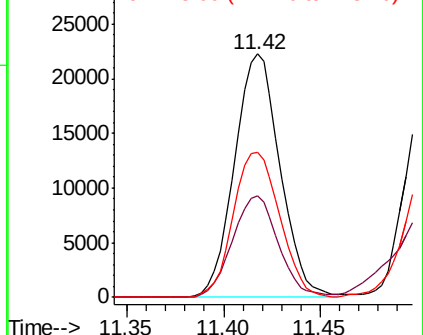
148 59.7 43.1 80.1



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



#63

1,4-Dichlorobenzene

Concen: 5.027 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

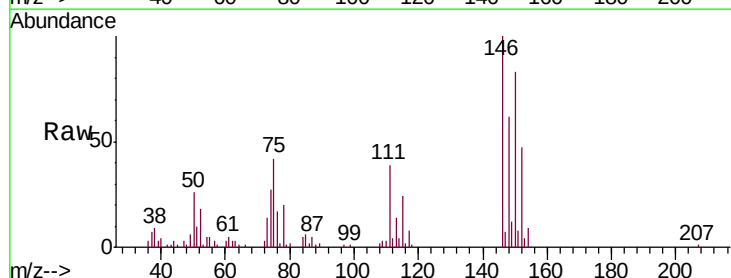
Tgt Ion:146 Resp: 36139

Ion Ratio Lower Upper

146 100

111 39.4 27.6 51.4

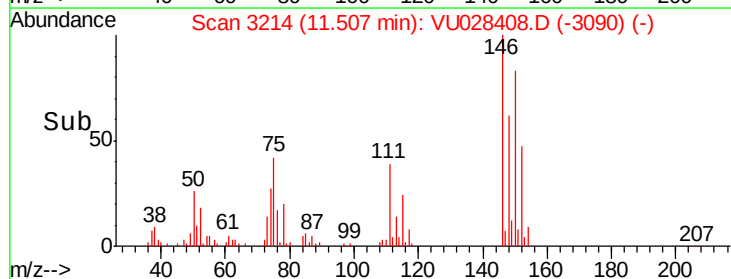
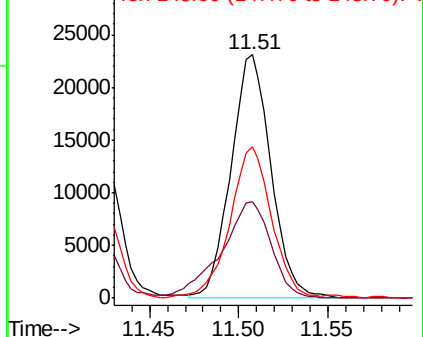
148 62.3 44.7 82.9

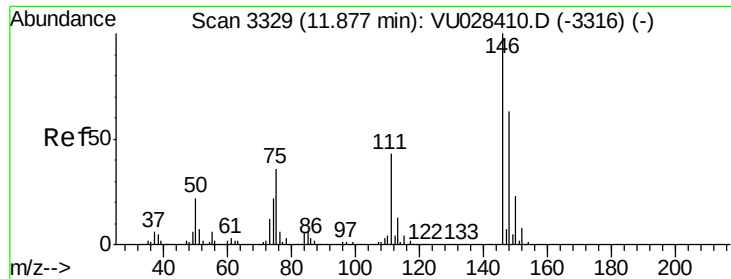


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

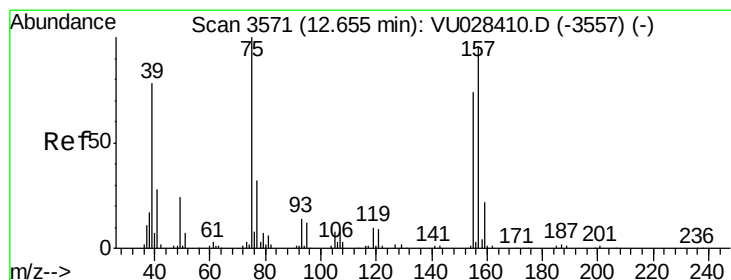
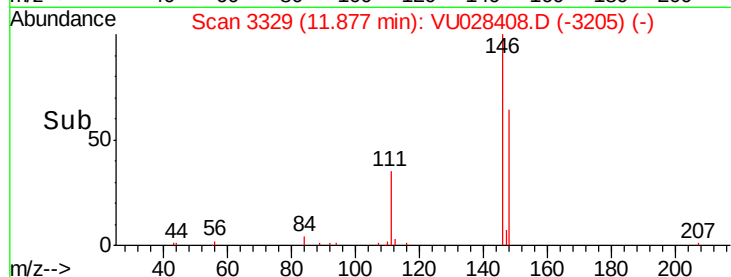
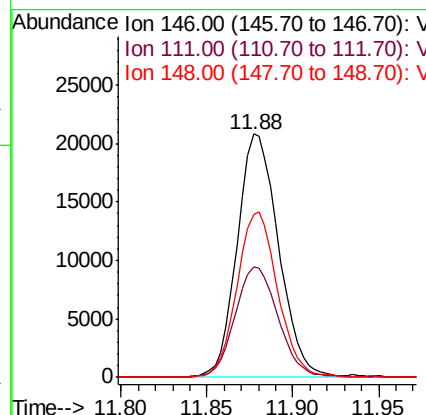
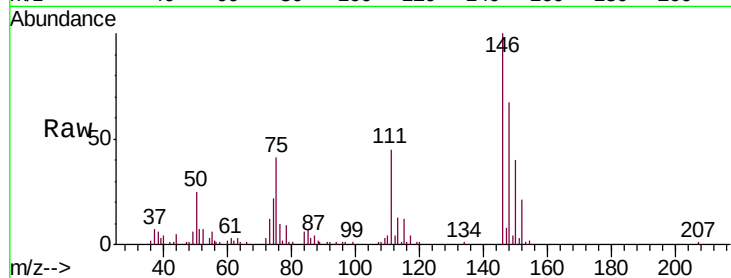




#65
 1,2-Dichlorobenzene
 Concen: 4.910 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

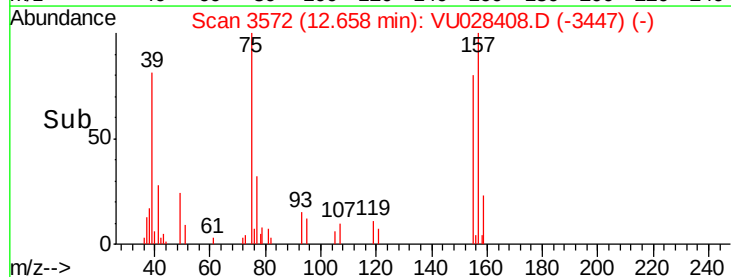
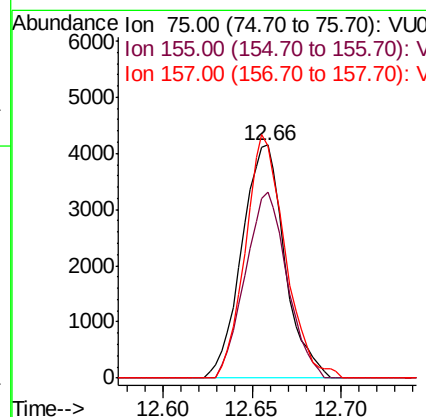
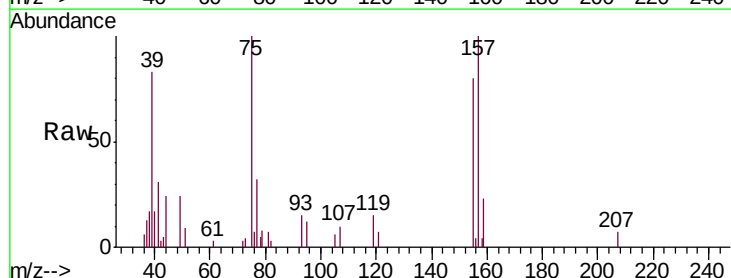
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

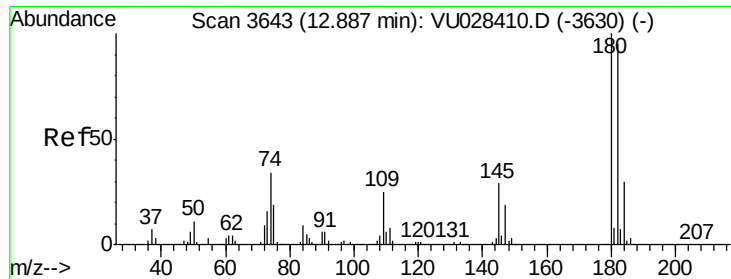
Tgt Ion: 146 Resp: 34792
 Ion Ratio Lower Upper
 146 100
 111 45.2 34.9 52.3
 148 66.8 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.865 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Tgt Ion: 75 Resp: 6944
 Ion Ratio Lower Upper
 75 100
 155 79.8 58.8 88.2
 157 99.6 76.9 115.3

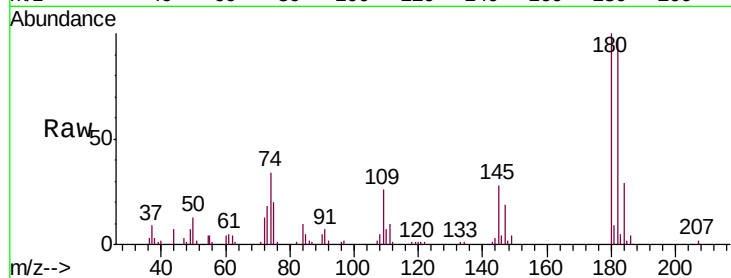




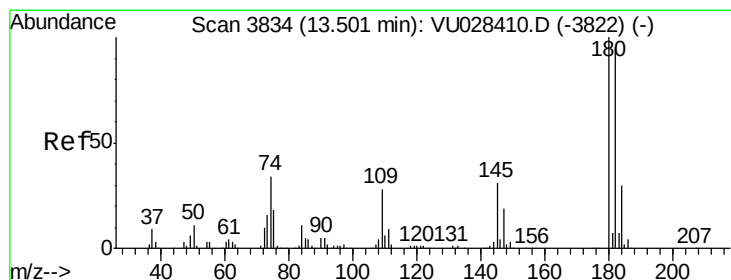
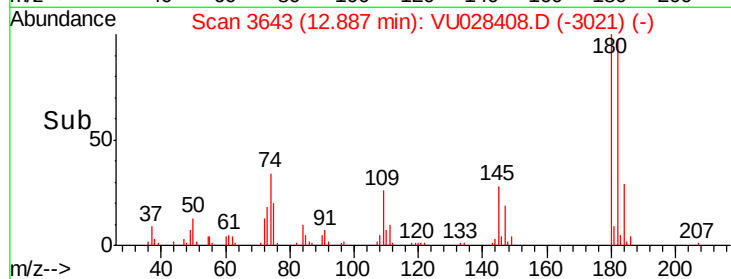
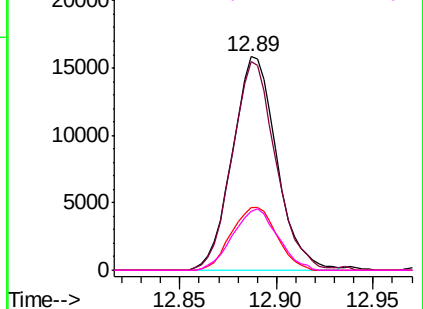
#67
 1,3,5-Trichlorobenzene
 Concen: 4.811 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00553

Tgt Ion:	180	Resp:	25265
Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.6
184	30.1	24.0	36.0
145	29.0	23.8	35.8

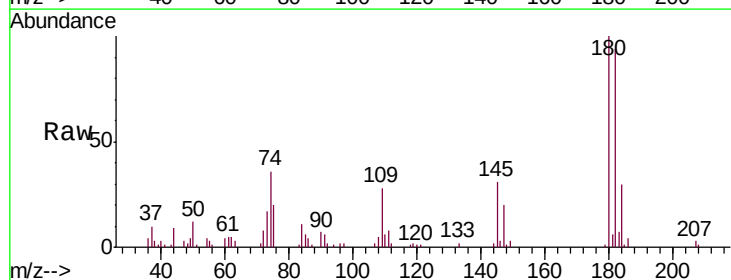


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

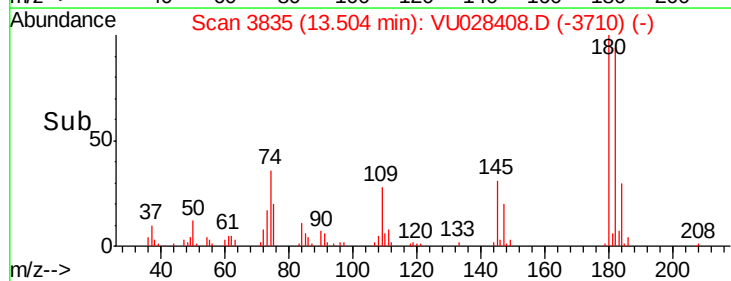
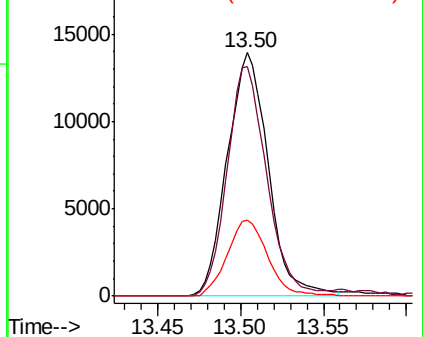


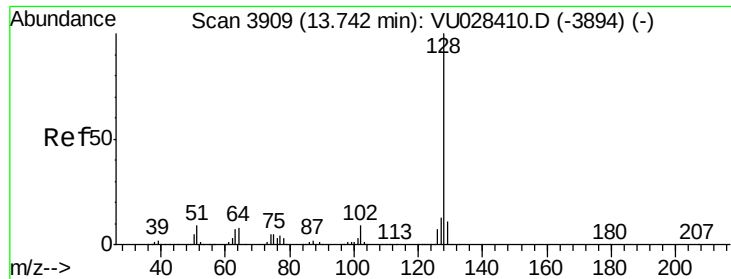
#68
 1,2,4-trichlorobenzene
 Concen: 4.890 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028408.D
 Acq: 30 Nov 2018 09:04

Tgt Ion:	180	Resp:	23914
Ion	Ratio	Lower	Upper
180	100		
182	91.1	76.0	114.0
145	30.7	24.2	36.2



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: 4.634 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00553

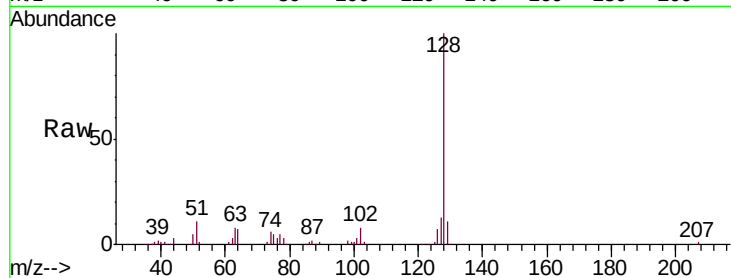
Tgt Ion:128 Resp: 79023

Ion Ratio Lower Upper

128 100

127 14.0 10.4 15.6

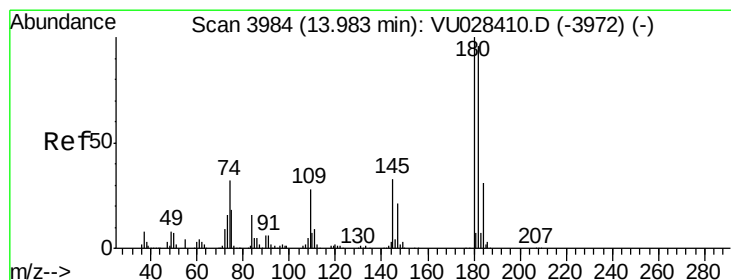
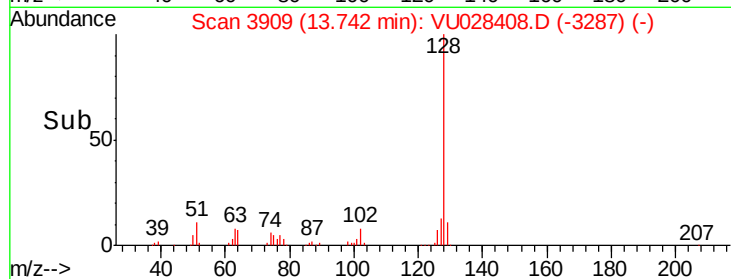
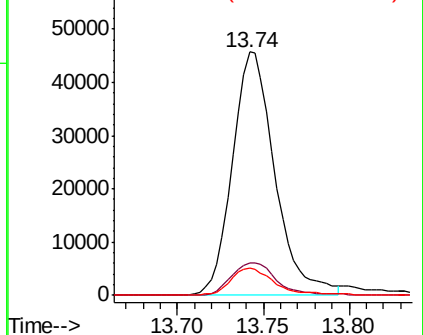
129 10.8 8.6 12.8



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: 4.722 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.01 min

Lab File: VU028408.D

Acq: 30 Nov 2018 09:04

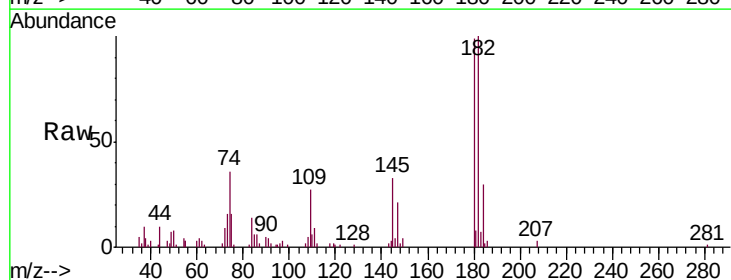
Tgt Ion:180 Resp: 23263

Ion Ratio Lower Upper

180 100

182 95.8 76.6 115.0

145 34.3 26.2 39.2



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

