

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080518\
 Data File : VU025877.D
 Acq On : 04 Aug 2018 16:57
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Quant Time: Aug 06 01:31:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 06 01:30:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	297156	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	288850	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	156313	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	70602	41.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.24%
7) Chloroethane-d5	1.68	69	60815	43.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.92%
11) 1,1-Dichloroethene-d2	2.27	63	164411	46.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.10%
21) 2-Butanone-d5	4.18	46	144900	110.64	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.64%
24) Chloroform-d	4.65	84	184728	48.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.78%
26) 1,2-Dichloroethane-d4	5.31	65	121089	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.90%
32) Benzene-d6	5.35	84	341304	46.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.14%
36) 1,2-Dichloropropane-d6	6.34	67	110122	46.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.26%
41) Toluene-d8	7.57	98	328046	46.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.34%
43) trans-1,3-Dichloropropene-	7.85	79	55624	45.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.24%
47) 2-Hexanone-d5	8.31	63	104139	104.19	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.19%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	163448	48.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.92%
64) 1,2-Dichlorobenzene-d4	11.86	152	143008	45.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.28%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	126075	43.060	ug/L 100
3) Chloromethane	1.33	50	106901	50.557	ug/L 99
5) Vinyl chloride	1.41	62	107685	46.434	ug/L 99
6) Bromomethane	1.63	94	53470	66.299	ug/L 95
8) Chloroethane	1.70	64	65545	47.998	ug/L 96
9) Trichlorofluoromethane	1.89	101	157895	47.810	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	89201	48.233	ug/L 97
12) 1,1-Dichloroethene	2.28	96	83252	49.643	ug/L 96
13) Acetone	2.32	43	110301	71.753	ug/L 100
14) Carbon disulfide	2.48	76	245874	45.026	ug/L 99
15) Methyl Acetate	2.62	43	116113	54.641	ug/L 98
16) Methylene chloride	2.70	84	104449	49.999	ug/L 98
17) trans-1,2-Dichloroethene	2.99	96	92909	48.119	ug/L 95
18) Methyl tert-butyl Ether	3.00	73	317847	50.546	ug/L 99
19) 1,1-Dichloroethane	3.45	63	184992	50.367	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	107981	49.545	ug/L 93
22) 2-Butanone	4.27	43	161880	94.593	ug/L 98

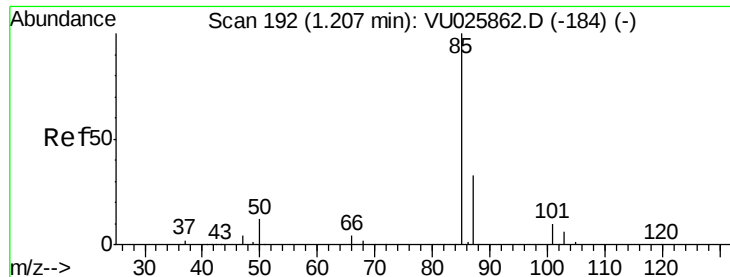
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080518\
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 Quant Title : VOC Analysis
 QLast Update : Mon Aug 06 01:30:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	58598	50.939	ug/L	97
25) Chloroform	4.68	83	195768	50.653	ug/L	100
27) 1,2-Dichloroethane	5.41	62	159067	50.459	ug/L	96
29) Cyclohexane	5.00	56	149209	44.587	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	174742	48.345	ug/L	99
31) Carbon tetrachloride	5.14	117	156919	46.951	ug/L	98
33) Benzene	5.39	78	397969	47.951	ug/L	100
34) Trichloroethene	6.19	95	106389	48.312	ug/L	96
35) Methylcyclohexane	6.42	83	152039	42.819	ug/L	99
37) 1,2-Dichloropropane	6.44	63	109956	48.482	ug/L	100
38) Bromodichloromethane	6.76	83	148635	49.706	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	169368	48.121	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	314858	105.715	ug/L	100
42) Toluene	7.64	91	436117	48.726	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	165073	49.743	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	104952	48.244	ug/L	98
46) Tetrachloroethene	8.23	164	89595	46.930	ug/L	97
48) 2-Hexanone	8.36	43	252803	100.451	ug/L	99
49) Dibromochloromethane	8.48	129	131415	51.497	ug/L	97
50) 1,2-Dibromoethane	8.59	107	114930	49.038	ug/L	99
51) Chlorobenzene	9.12	112	294125	48.813	ug/L	99
52) Ethylbenzene	9.25	91	485850	49.182	ug/L	100
53) m,p-Xylene	9.38	106	190145	50.251	ug/L	98
54) o-xylene	9.78	106	184230	47.983	ug/L	98
55) Styrene	9.80	104	317142	50.715	ug/L	99
56) Isopropylbenzene	10.17	105	488608	49.311	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	177917	50.703	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	137370	51.567	ug/L	99
61) Bromoform	9.96	173	95546	47.256	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	239427	48.423	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	248104	49.157	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	249891	48.241	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	41770	51.273	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	179161	46.943	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	150642	46.963	ug/L	99
69) Naphthalene	13.74	128	463271	48.026	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	163317	48.164	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.060 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

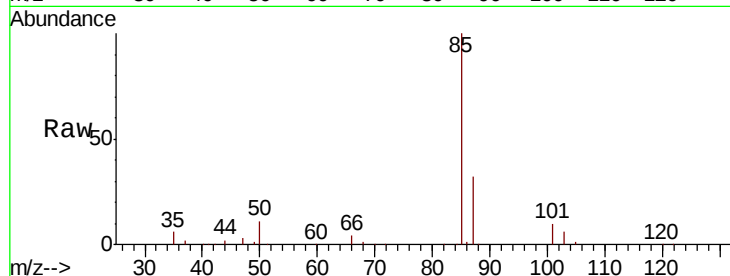
VSTD05054

Tgt Ion: 85 Resp: 126075

Ion Ratio Lower Upper

85 100

87 31.9 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025862.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU025862.D (-184) (-)

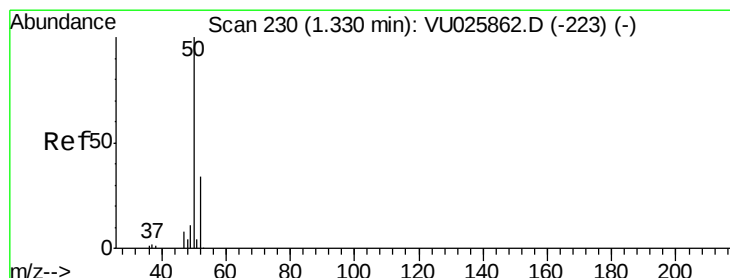
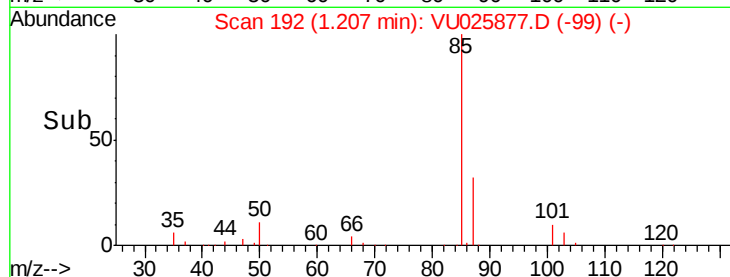
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100000

50000

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Time-->



#3

Chloromethane

Concen: 50.557 ug/L

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025877.D

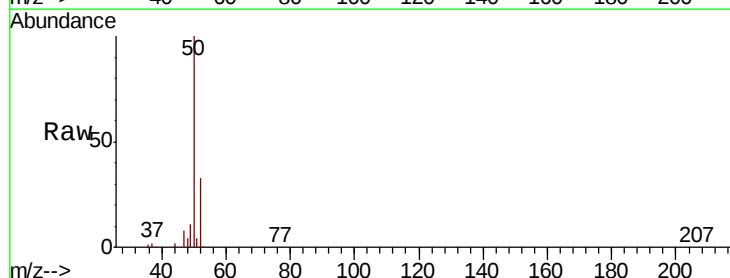
Acq: 04 Aug 2018 16:57

Tgt Ion: 50 Resp: 106901

Ion Ratio Lower Upper

50 100

52 33.5 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025862.D (-223) (-)

Ion 52.00 (51.70 to 52.70): VU025862.D (-223) (-)

1.33

100000

80000

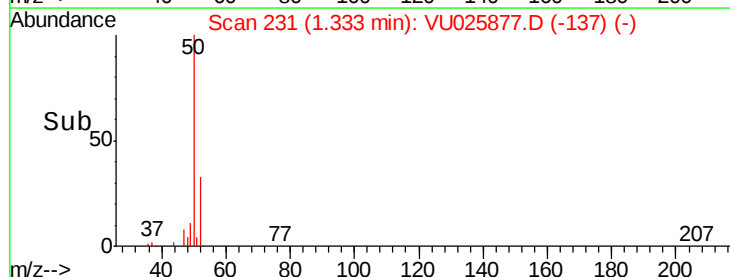
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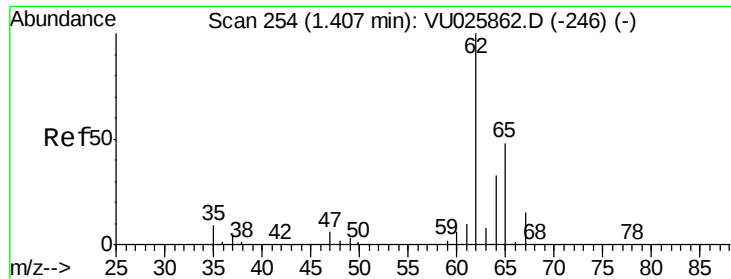
40000

20000

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Time-->





#5

Vinyl chloride

Concen: 46.434 ug/L

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

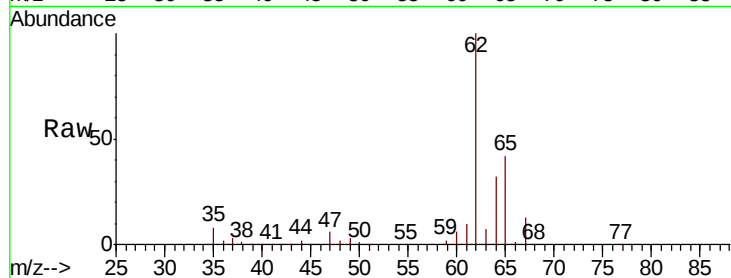
VSTD05054

Tgt Ion: 62 Resp: 107685

Ion Ratio Lower Upper

62 100

64 31.9 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

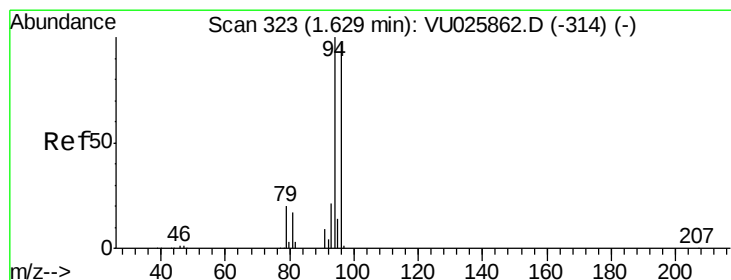
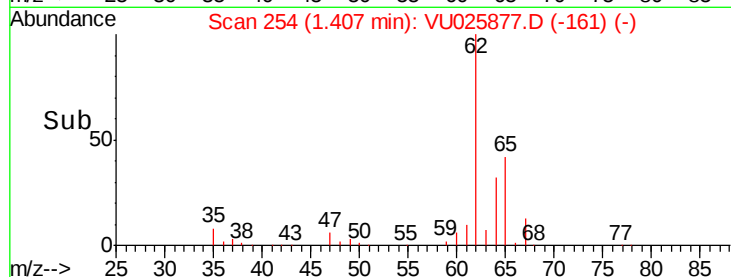
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20000

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Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 66.299 ug/L

RT: 1.63 min Scan# 322

Delta R.T. -0.00 min

Lab File: VU025877.D

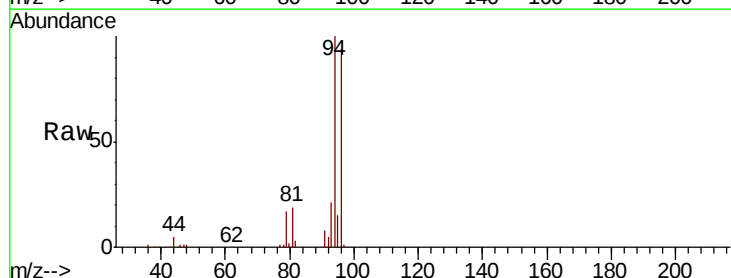
Acq: 04 Aug 2018 16:57

Tgt Ion: 94 Resp: 53470

Ion Ratio Lower Upper

94 100

96 93.8 62.4 115.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

40000

30000

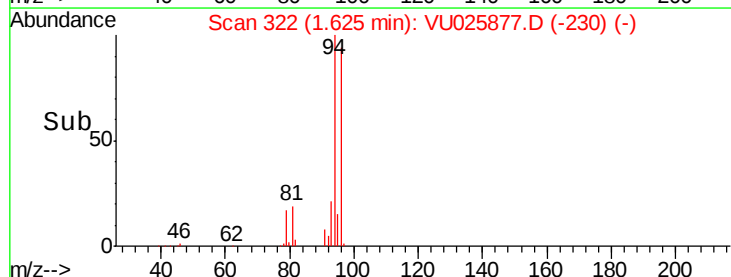
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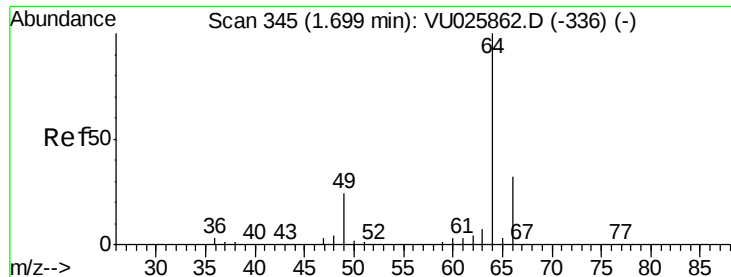
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Time-->

1.60 1.65 1.70

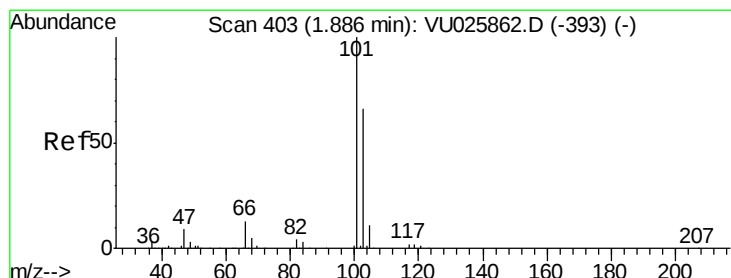
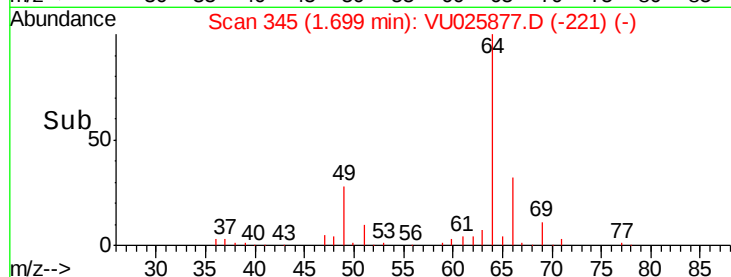
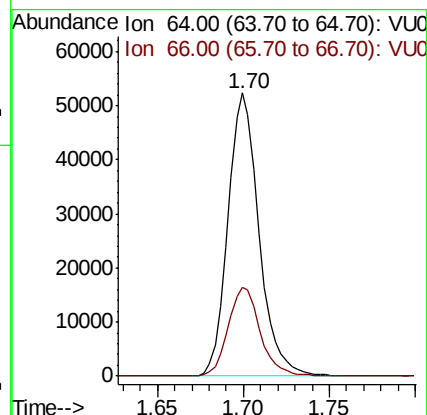
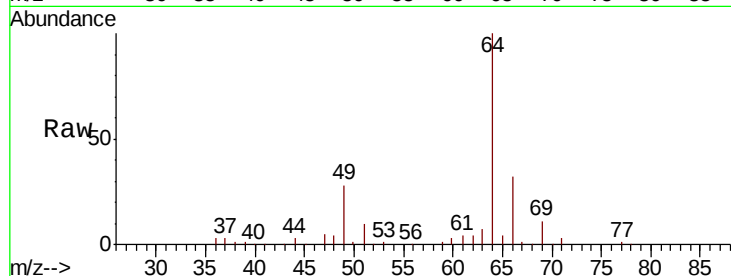




#8
Chloroethane
Concen: 47.998 ug/L
RT: 1.70 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

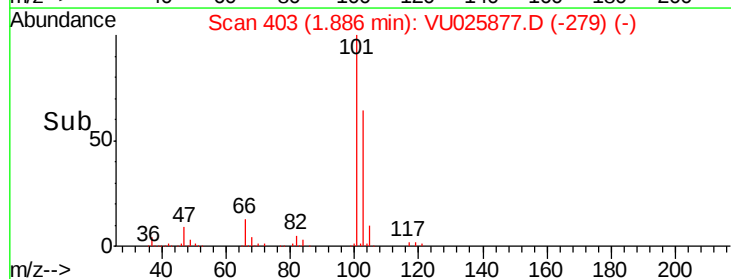
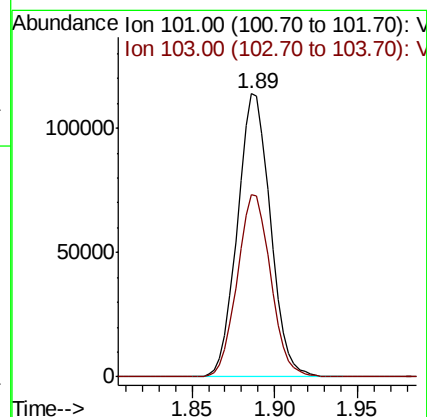
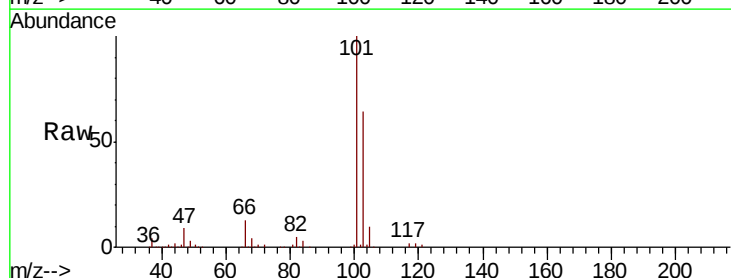
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

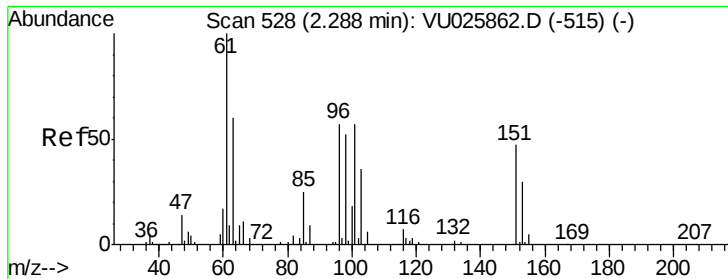
Tgt Ion: 64 Resp: 65545
Ion Ratio Lower Upper
64 100
66 31.5 23.5 43.7



#9
Trichlorofluoromethane
Concen: 47.810 ug/L
RT: 1.89 min Scan# 403
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

Tgt Ion: 101 Resp: 157895
Ion Ratio Lower Upper
101 100
103 65.0 52.0 78.0





#10

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

Concen: 48.233 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

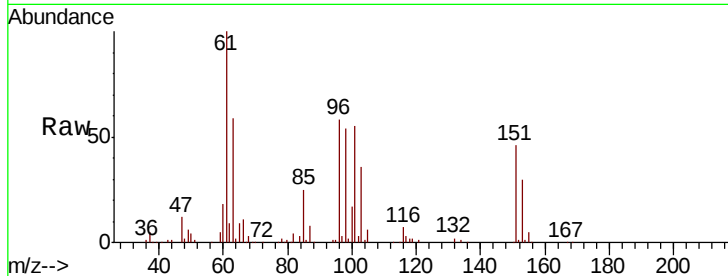
Tgt Ion: 101 Resp: 89201

Ion Ratio Lower Upper

101 100

85 45.3 35.5 53.3

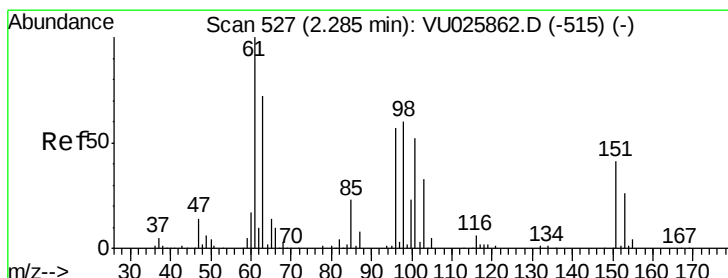
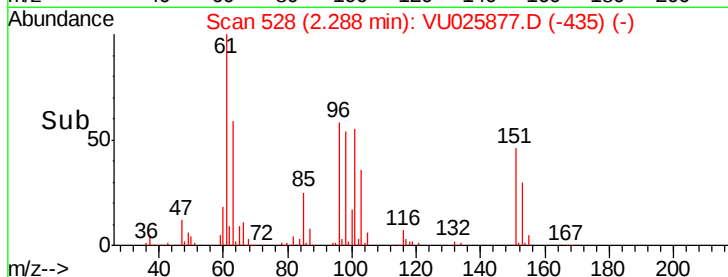
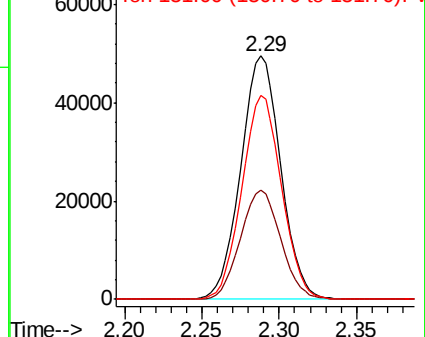
151 83.0 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.643 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

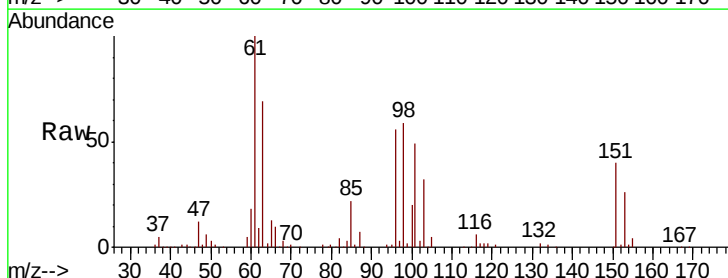
Tgt Ion: 96 Resp: 83252

Ion Ratio Lower Upper

96 100

61 179.0 122.5 227.5

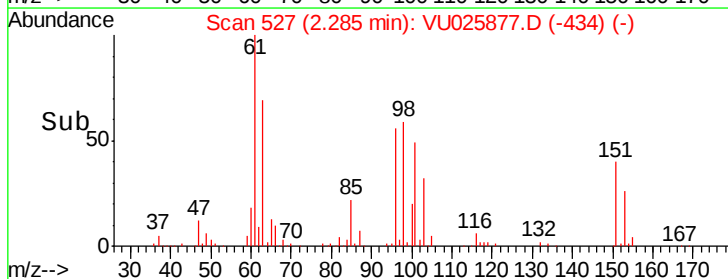
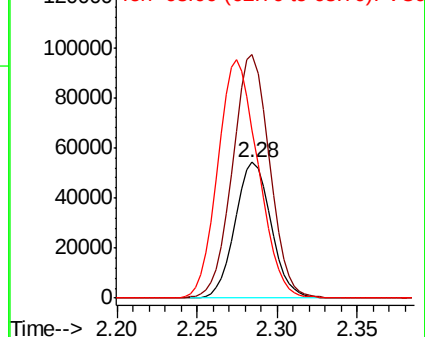
63 123.5 90.9 168.9

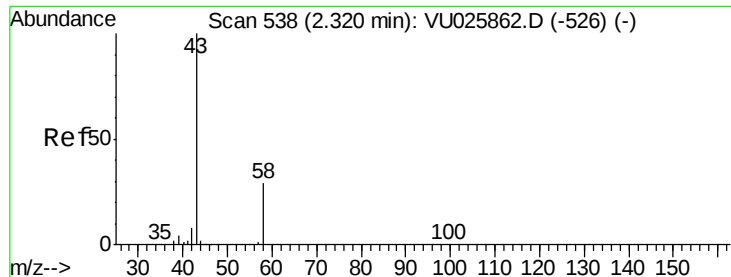


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 71.753 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

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ClientSampleId :

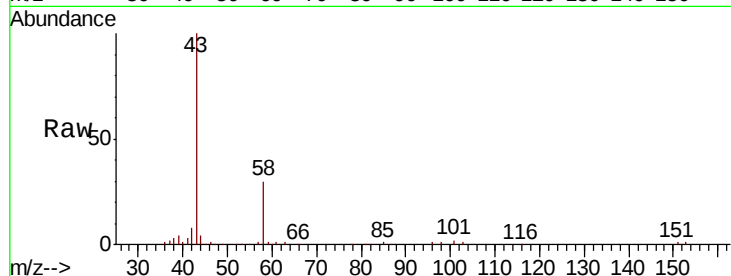
VSTD05054

Tgt Ion: 43 Resp: 110301

Ion Ratio Lower Upper

43 100

58 30.4 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU025862.D (-526) (-)

Ion 58.00 (57.70 to 58.70): VU025862.D (-526) (-)

2.32

60000

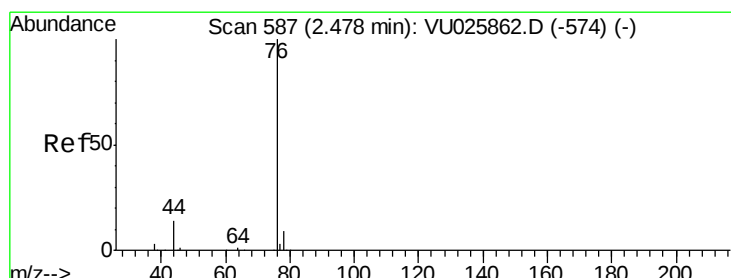
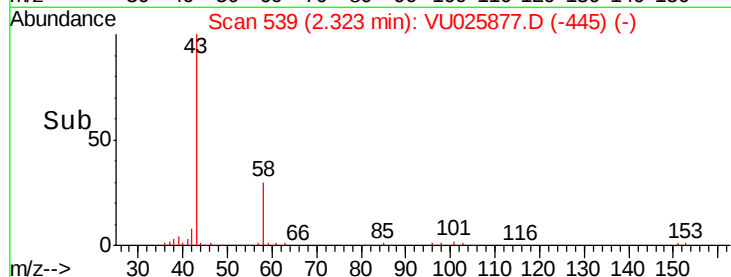
40000

20000

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Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 45.026 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025877.D

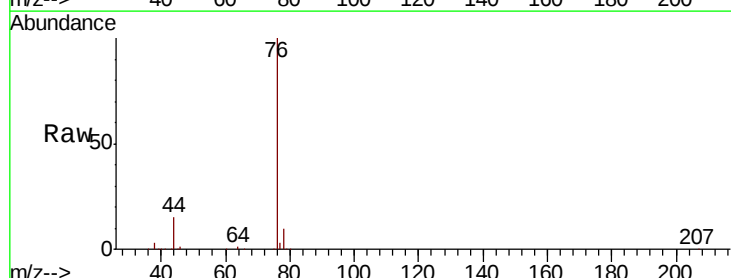
Acq: 04 Aug 2018 16:57

Tgt Ion: 76 Resp: 245874

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU025862.D (-574) (-)

Ion 78.00 (77.70 to 78.70): VU025862.D (-574) (-)

2.48

150000

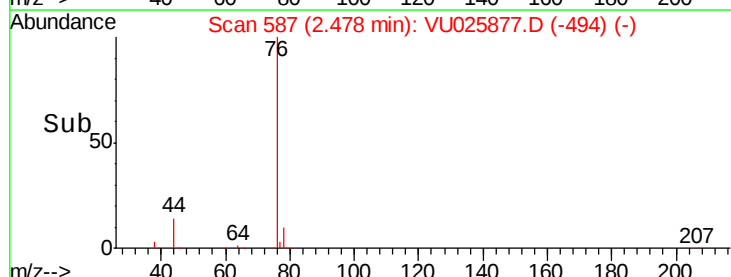
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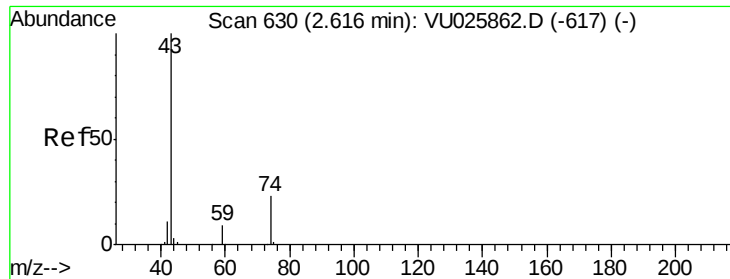
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Time-->

2.40 2.45 2.50 2.55 2.60

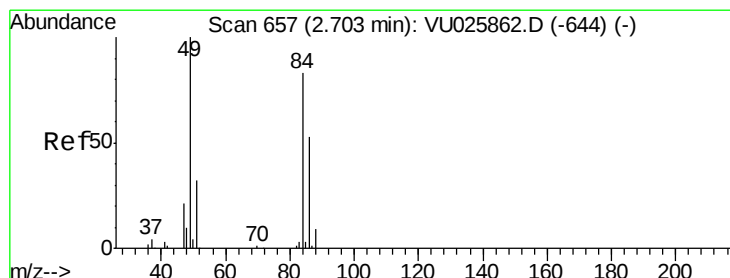
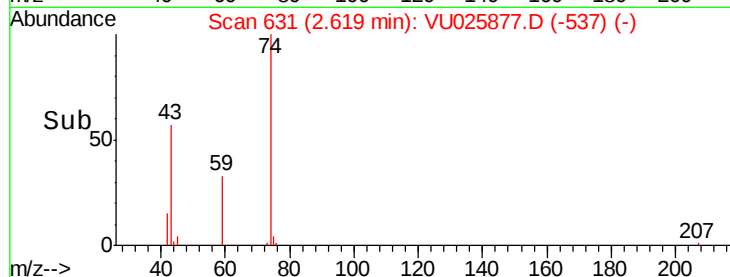
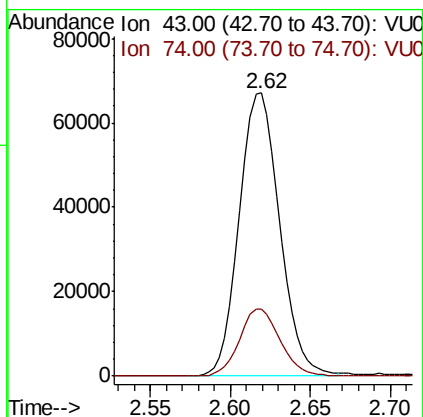
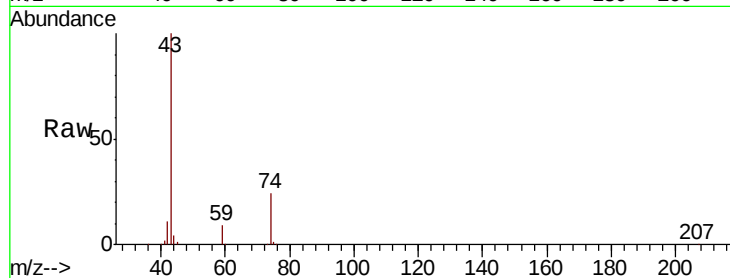




#15
Methyl Acetate
Concen: 54.641 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

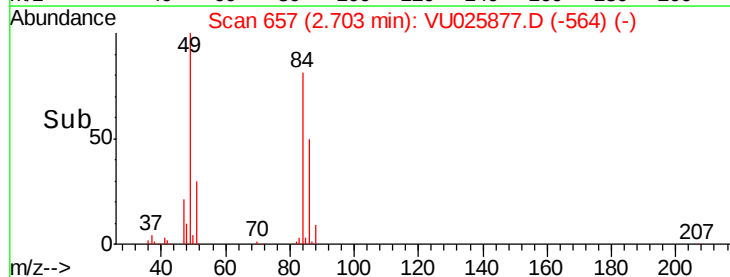
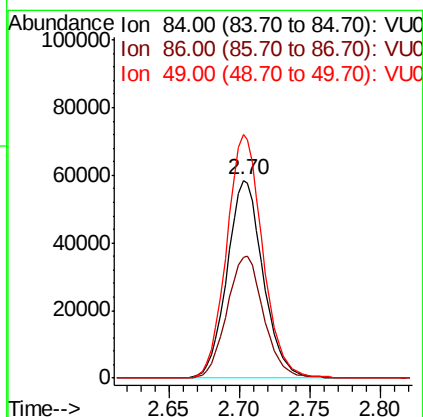
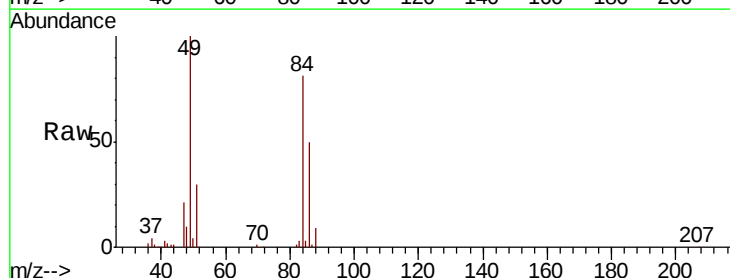
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

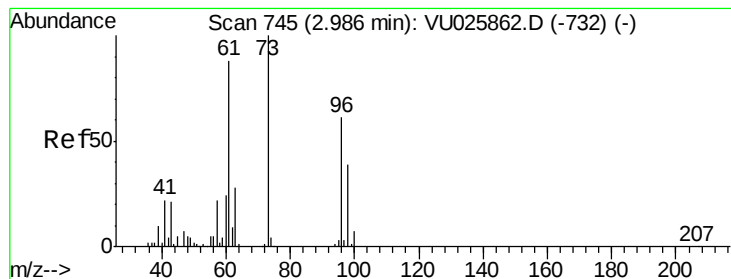
Tgt Ion: 43 Resp: 116113
Ion Ratio Lower Upper
43 100
74 23.7 18.3 27.5



#16
Methylene chloride
Concen: 49.999 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

Tgt Ion: 84 Resp: 104449
Ion Ratio Lower Upper
84 100
86 61.1 45.6 84.6
49 123.2 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 48.119 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

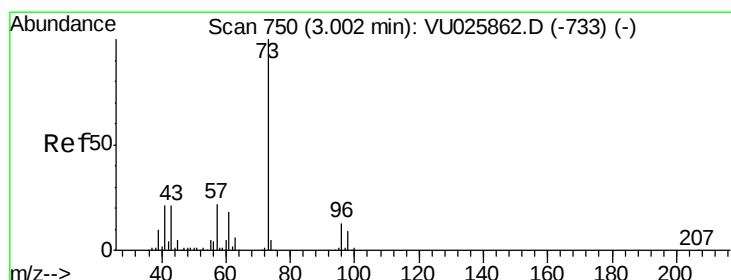
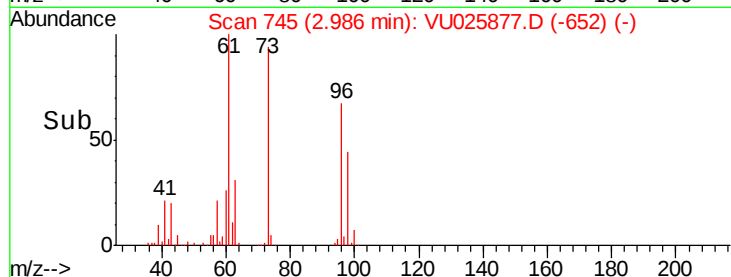
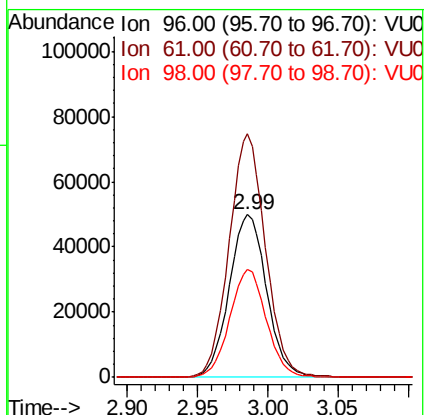
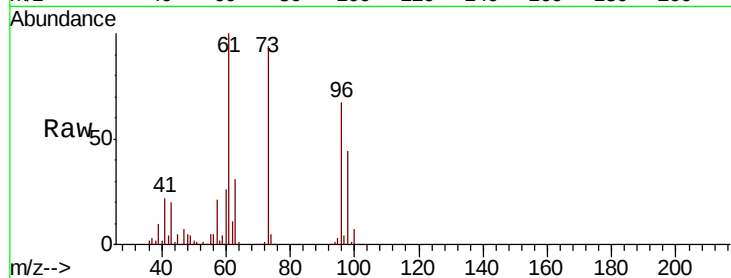
Tgt Ion: 96 Resp: 92909

Ion Ratio Lower Upper

96 100

61 149.7 100.0 185.8

98 66.4 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 50.546 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

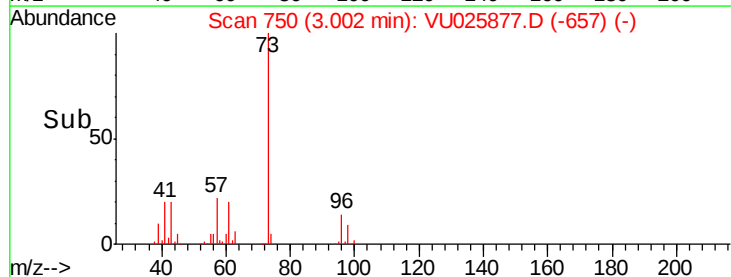
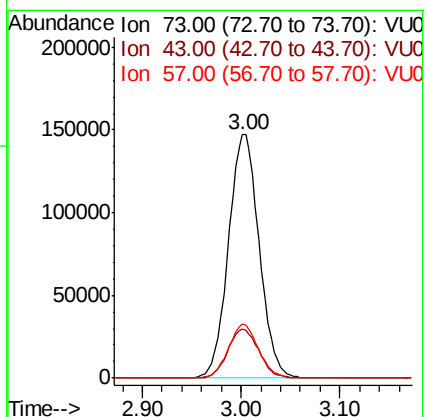
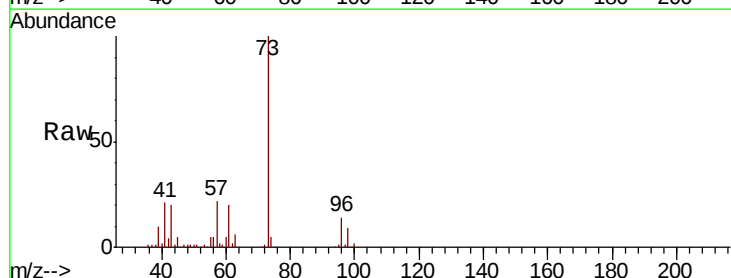
Tgt Ion: 73 Resp: 317847

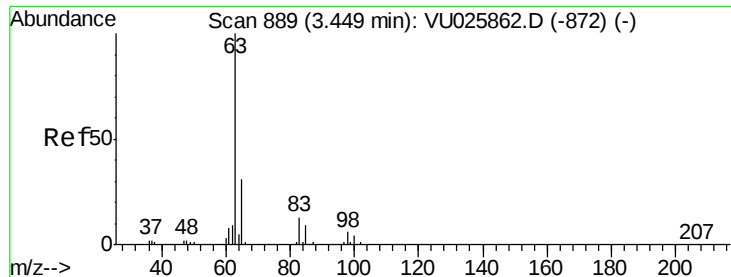
Ion Ratio Lower Upper

73 100

43 20.6 16.2 24.2

57 21.8 17.1 25.7





#19

1,1-Dichloroethane

Concen: 50.367 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampled :

VSTD05054

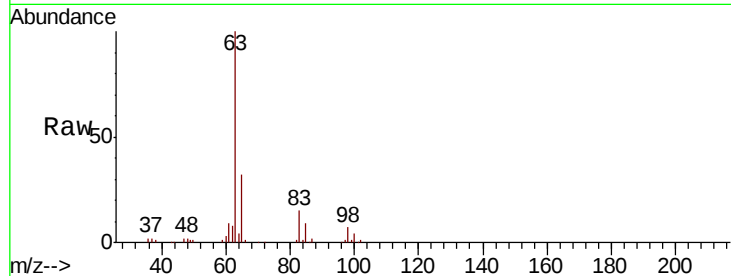
Tgt Ion: 63 Resp: 184992

Ion Ratio Lower Upper

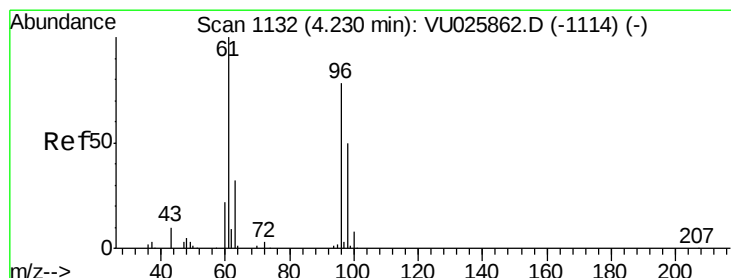
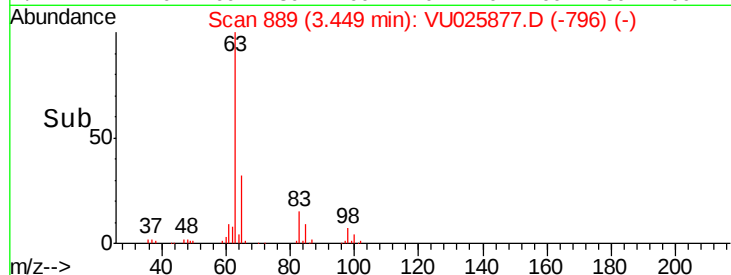
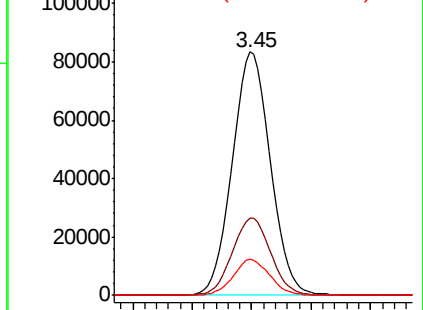
63 100

65 31.6 22.0 41.0

83 15.0 9.6 17.8



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



#20

cis-1,2-Dichloroethene

Concen: 49.545 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

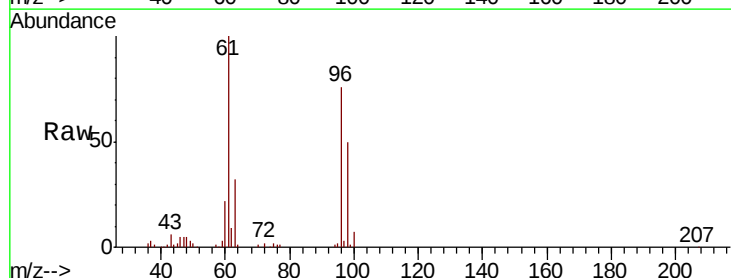
Tgt Ion: 96 Resp: 107981

Ion Ratio Lower Upper

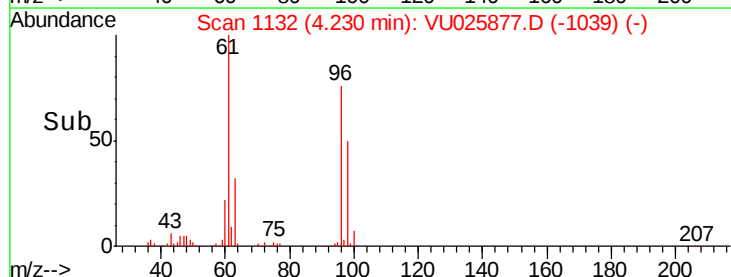
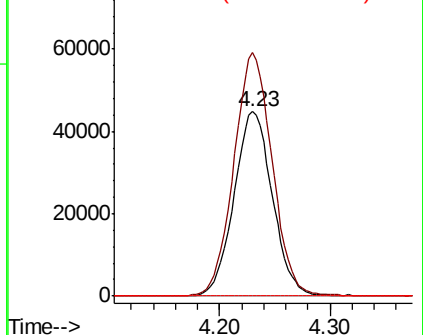
96 100

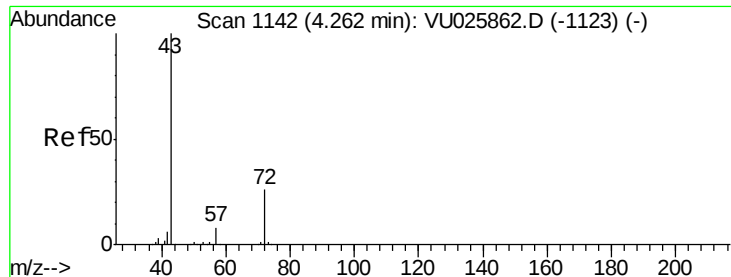
61 132.2 87.4 162.2

68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 94.593 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

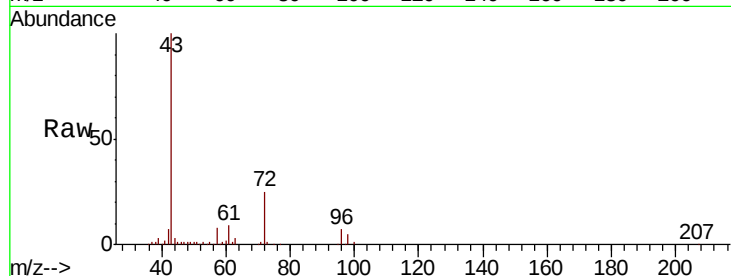
VSTD05054

Tgt Ion: 43 Resp: 161880

Ion Ratio Lower Upper

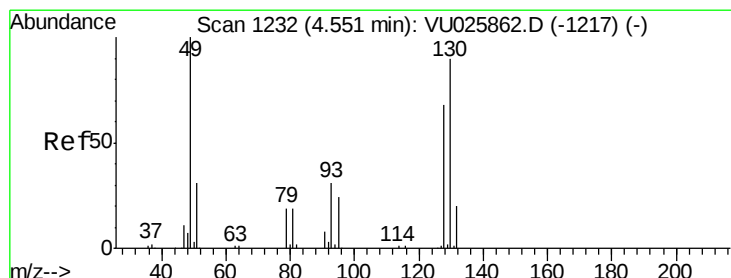
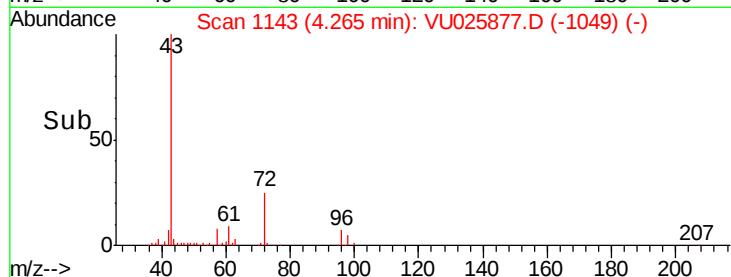
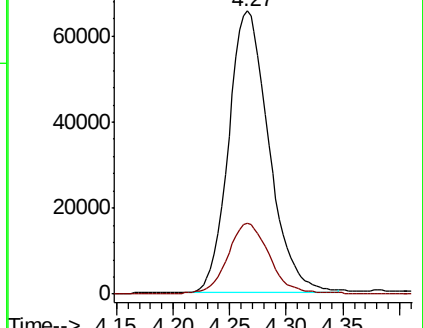
43 100

72 26.0 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025877.D (-1049) (-)

Ion 72.00 (71.70 to 72.70): VU025877.D (-1049) (-)



#23

Bromochloromethane

Concen: 50.939 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Tgt Ion: 128 Resp: 58598

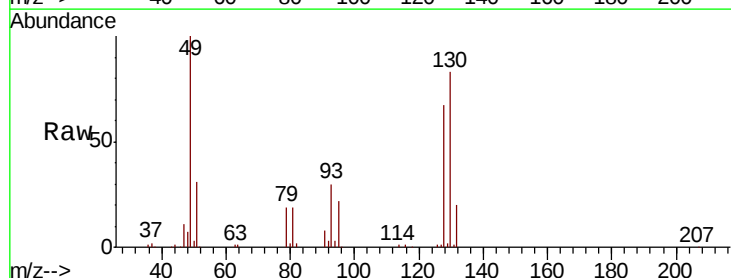
Ion Ratio Lower Upper

128 100

49 149.8 103.3 191.8

130 123.9 90.4 167.8

51 46.7 35.5 53.3

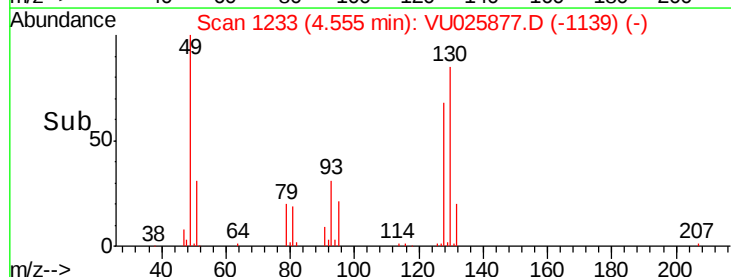
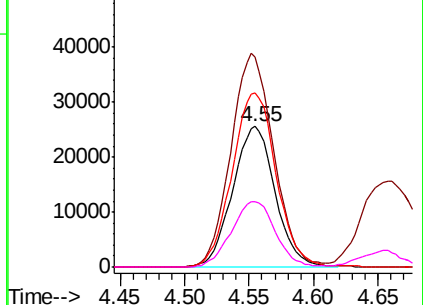


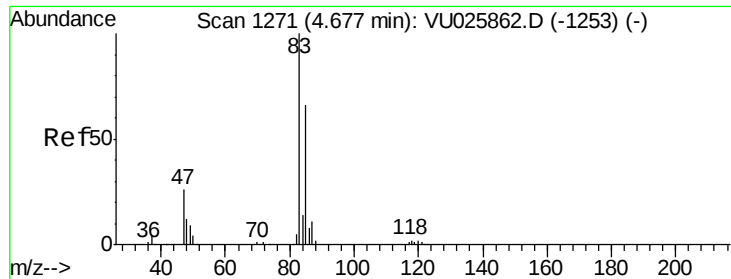
Abundance Ion 128.00 (127.70 to 128.70): VU025877.D (-1139) (-)

Ion 49.00 (48.70 to 49.70): VU025877.D (-1139) (-)

Ion 130.00 (129.70 to 130.70): VU025877.D (-1139) (-)

Ion 51.00 (50.70 to 51.70): VU025877.D (-1139) (-)

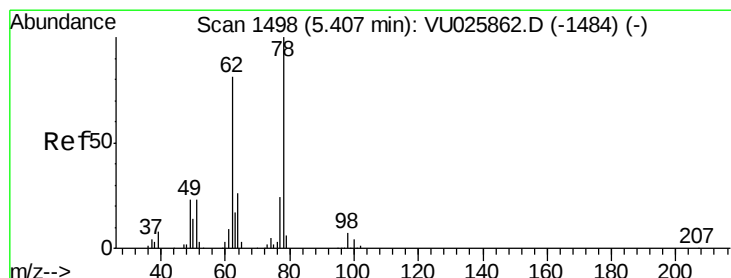
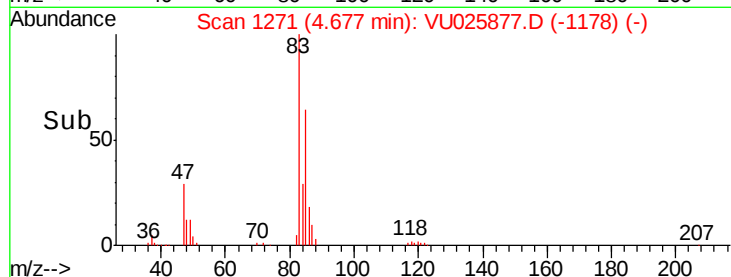
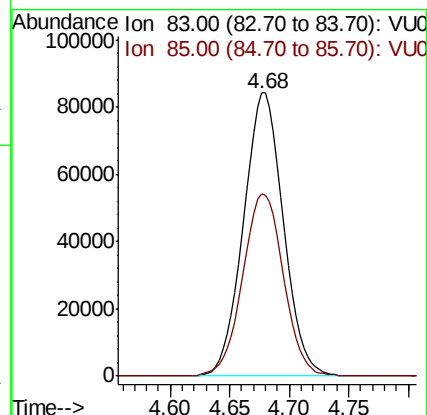
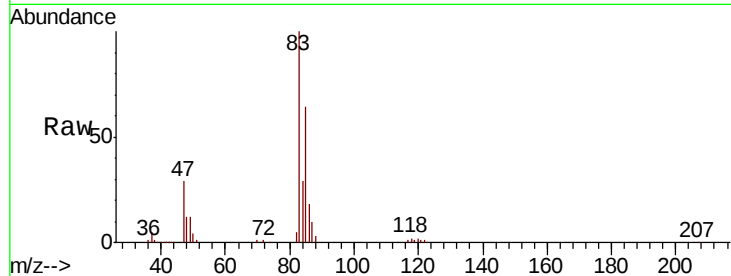




#25
Chloroform
Concen: 50.653 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

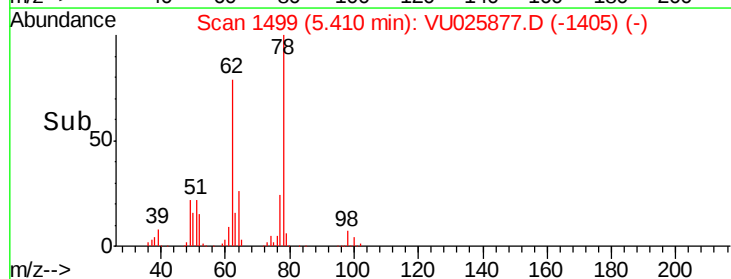
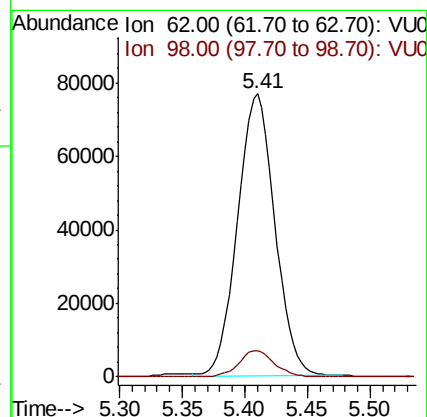
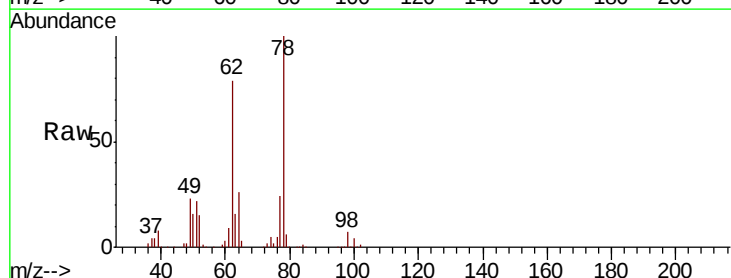
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

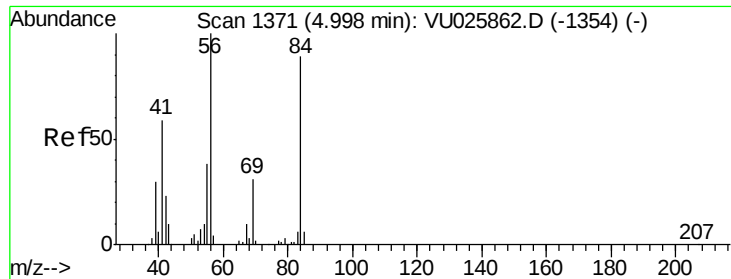
Tgt Ion: 83 Resp: 195768
Ion Ratio Lower Upper
83 100
85 64.4 45.0 83.6



#27
1,2-Dichloroethane
Concen: 50.459 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

Tgt Ion: 62 Resp: 159067
Ion Ratio Lower Upper
62 100
98 9.4 6.5 9.7

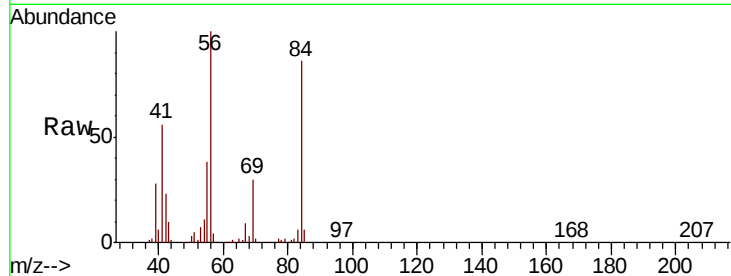




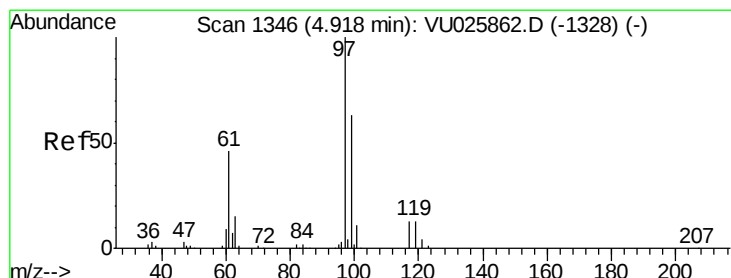
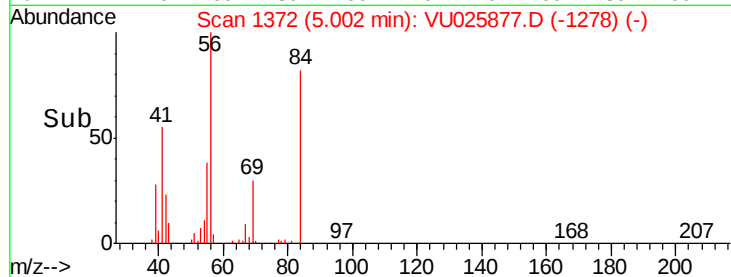
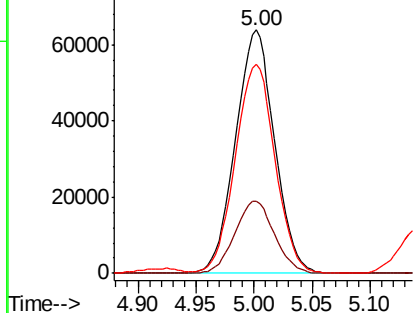
#29
Cyclohexane
Concen: 44.587 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Tgt Ion: 56 Resp: 149209
Ion Ratio Lower Upper
56 100
69 30.0 24.8 37.2
84 87.6 70.6 106.0

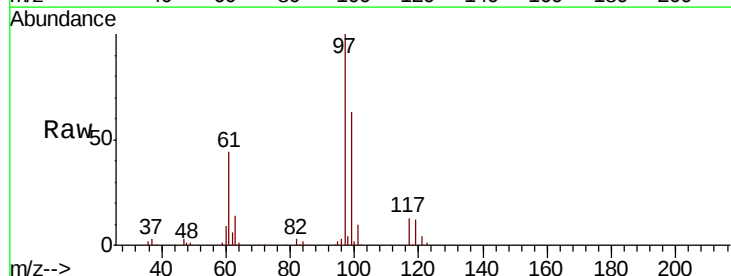


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

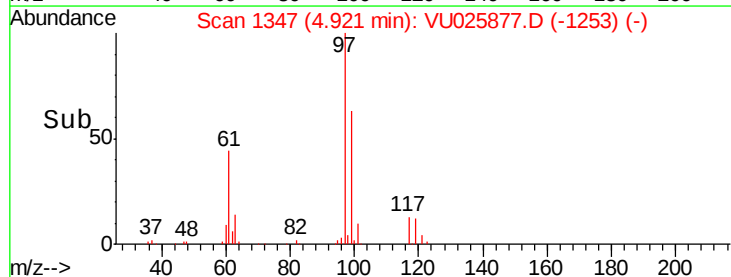
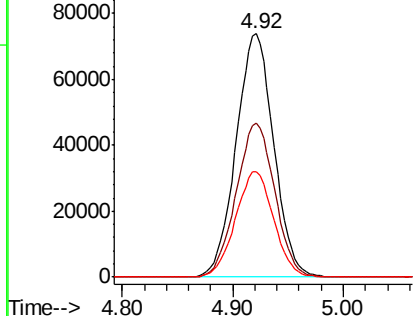


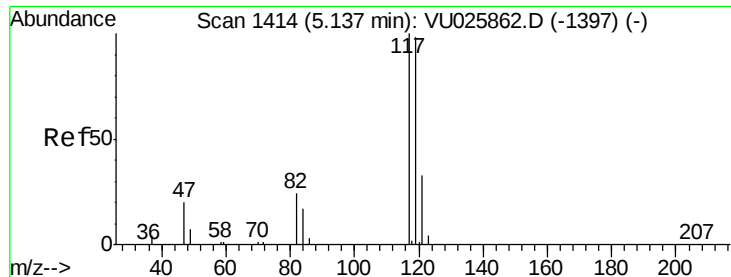
#30
1,1,1-Trichloroethane
Concen: 48.345 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

Tgt Ion: 97 Resp: 174742
Ion Ratio Lower Upper
97 100
99 64.7 52.4 78.6
61 44.0 34.6 52.0



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: 46.951 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

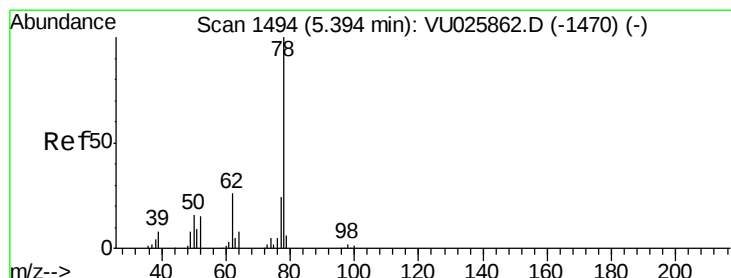
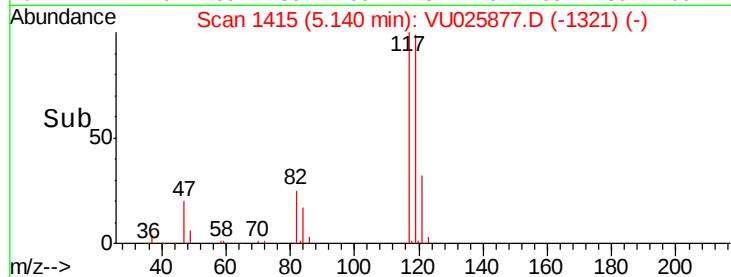
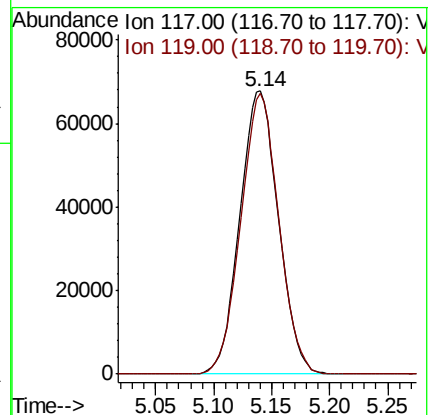
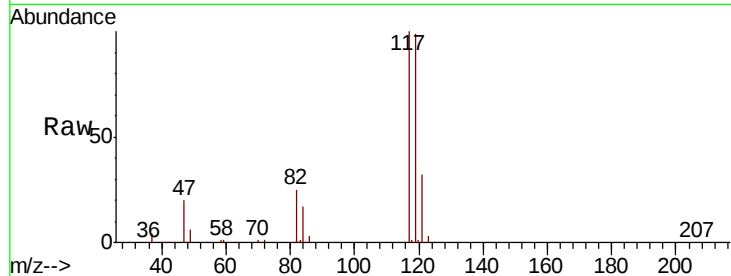
VSTD05054

Tgt Ion:117 Resp: 156919

Ion Ratio Lower Upper

117 100

119 97.5 76.6 114.8



#33

Benzene

Concen: 47.951 ug/L

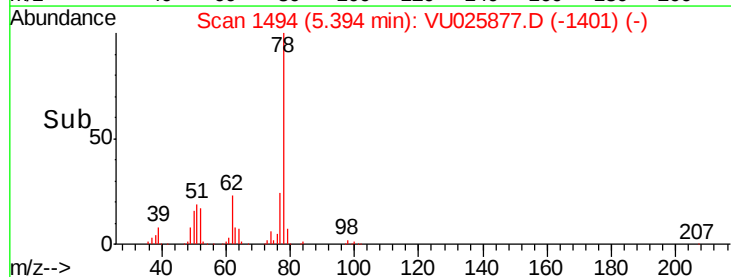
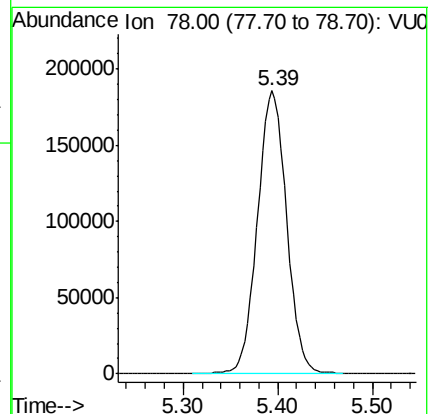
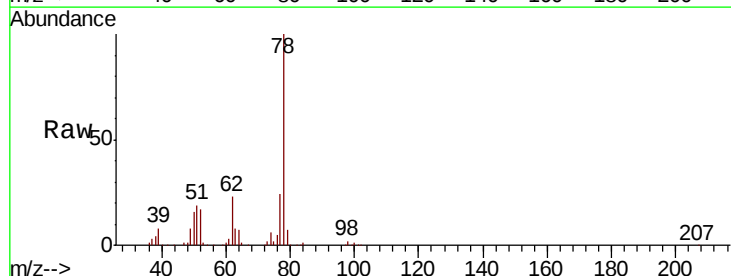
RT: 5.39 min Scan# 1494

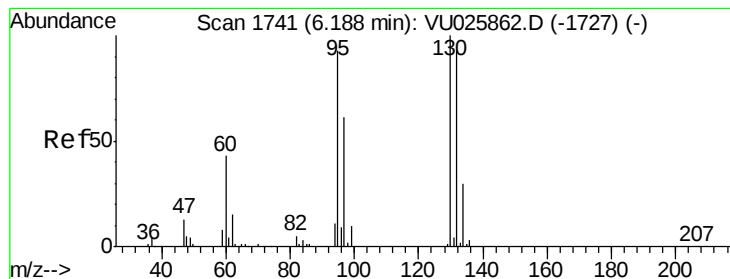
Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Tgt Ion: 78 Resp: 397969





#34

Trichloroethene

Concen: 48.312 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

Tgt Ion: 95 Resp: 106389

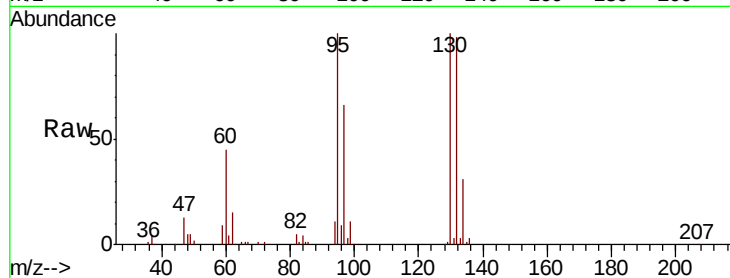
Ion Ratio Lower Upper

95 100

97 65.7 45.9 85.3

132 98.4 72.2 134.2

130 100.0 74.9 139.1

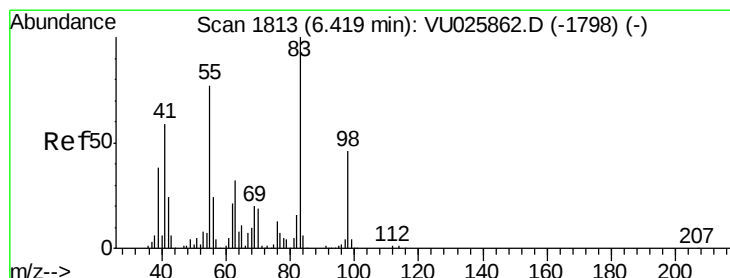
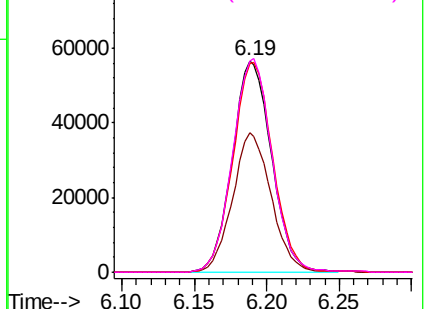
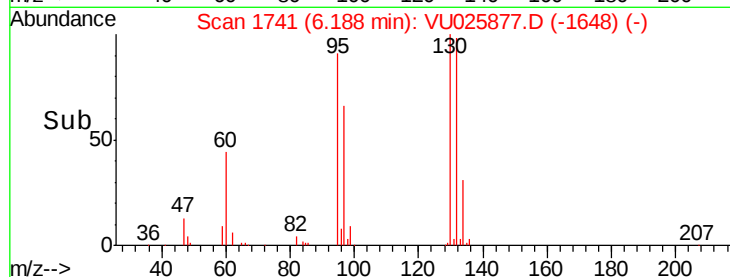


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 42.819 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

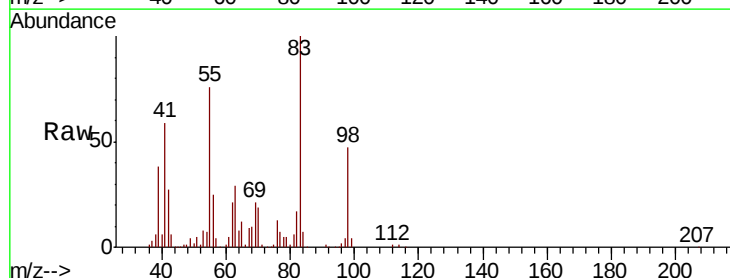
Tgt Ion: 83 Resp: 152039

Ion Ratio Lower Upper

83 100

55 75.9 61.1 91.7

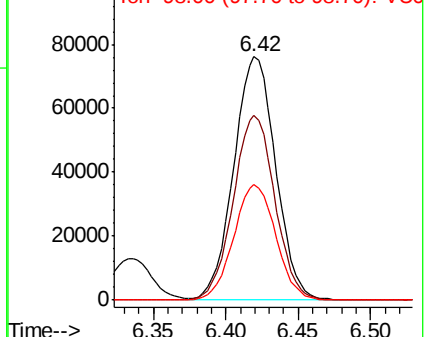
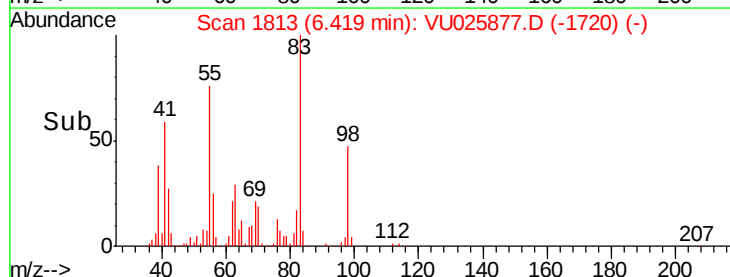
98 47.9 38.6 57.8

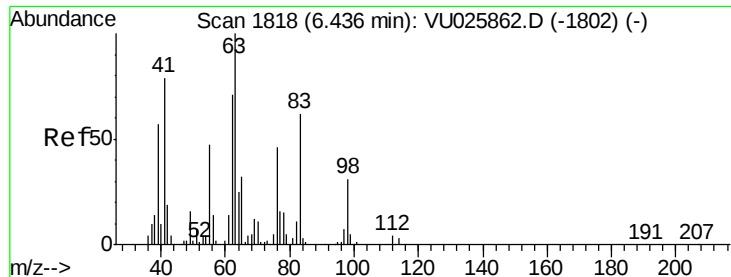


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

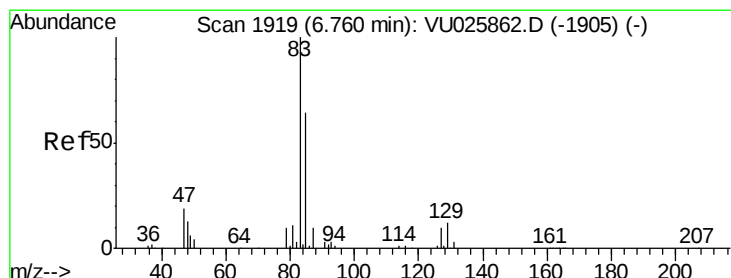
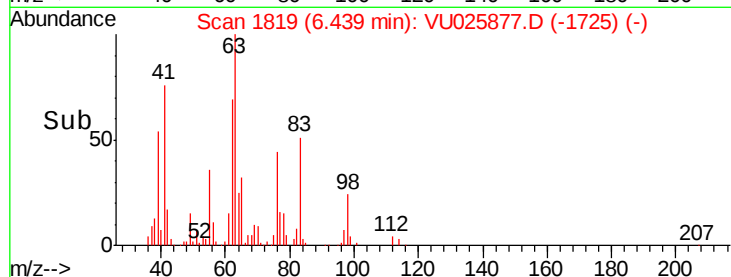
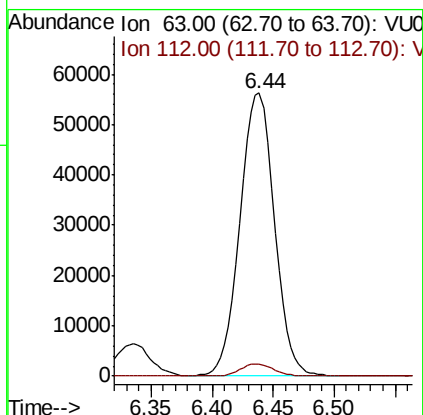
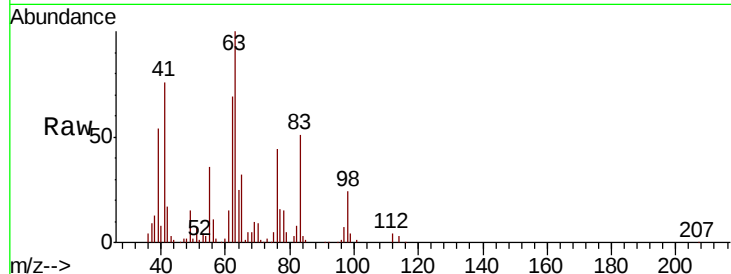




#37
 1,2-Dichloropropane
 Concen: 48.482 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

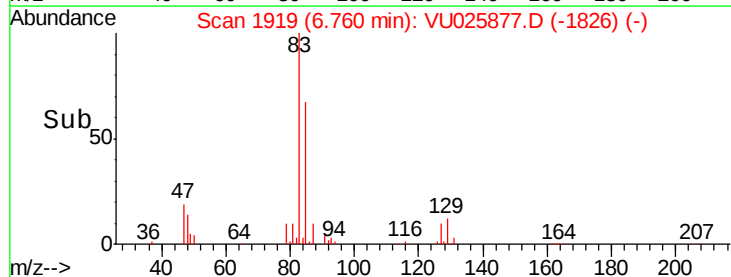
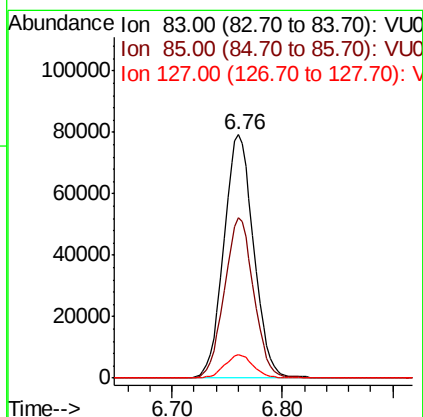
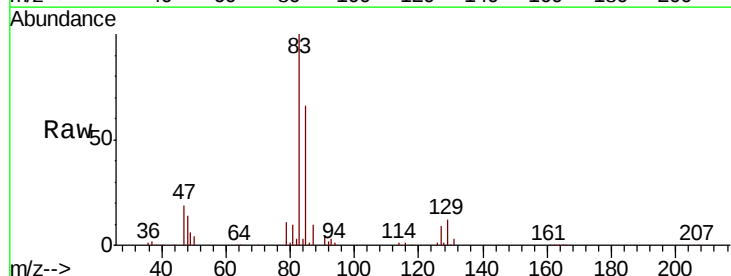
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

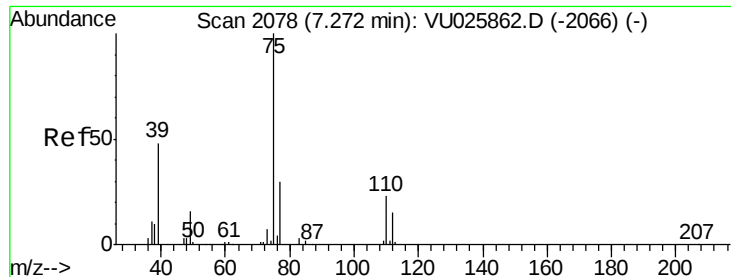
Tgt Ion: 63 Resp: 109956
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 49.706 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion: 83 Resp: 148635
 Ion Ratio Lower Upper
 83 100
 85 65.7 46.7 86.7
 127 9.4 8.0 12.0

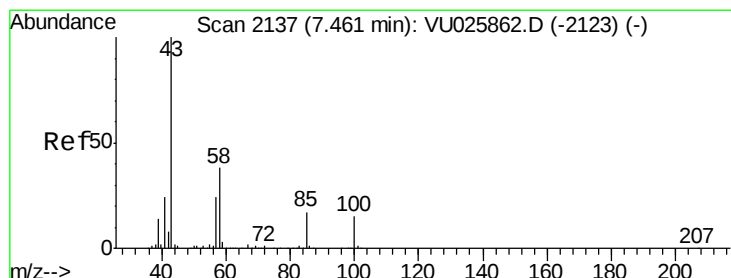
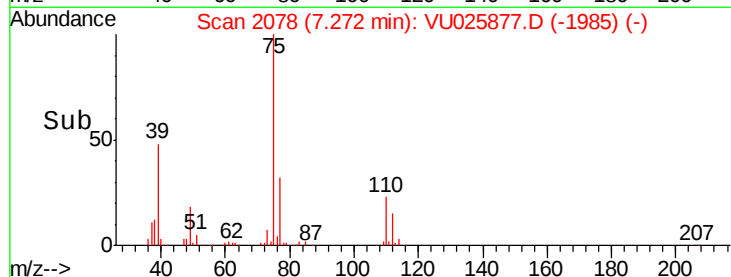
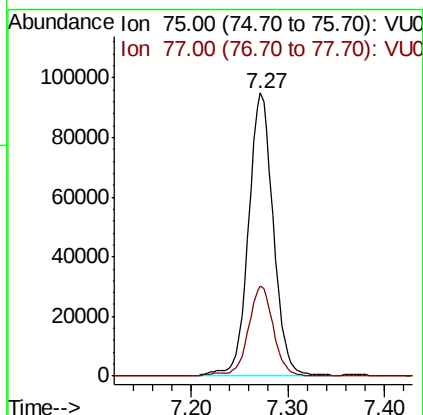
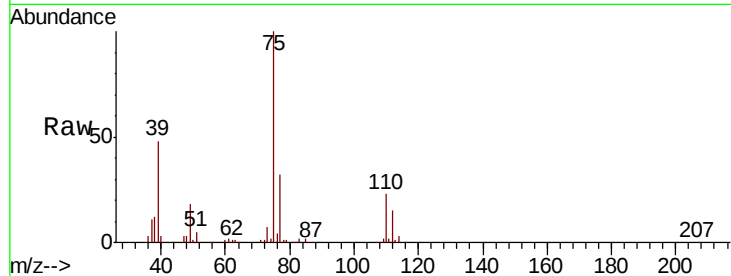




#39
 cis-1,3-Dichloropropene
 Concen: 48.121 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

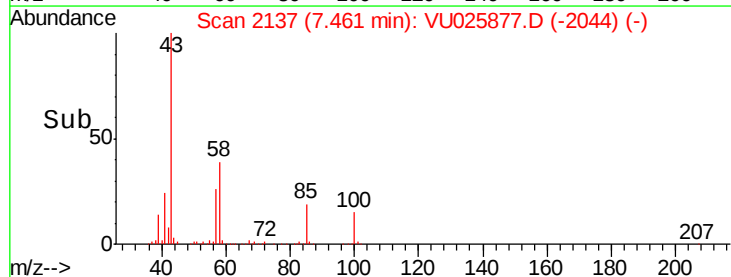
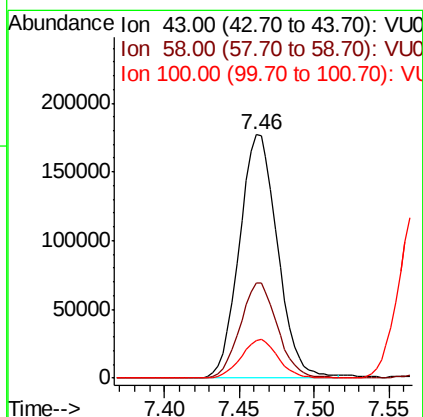
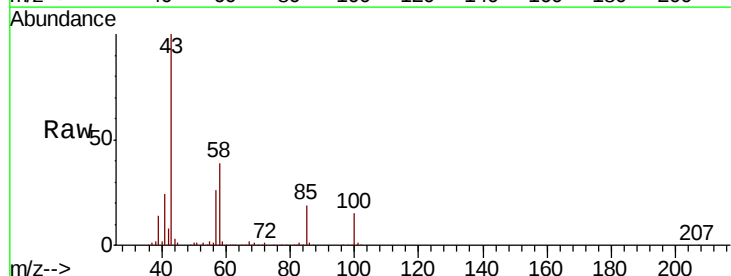
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

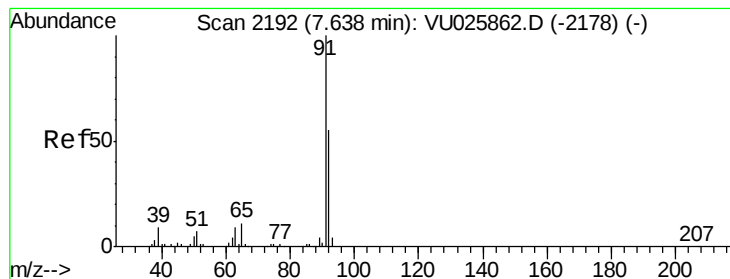
Tgt Ion: 75 Resp: 169368
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 105.715 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion: 43 Resp: 314858
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.8 46.2
 100 15.3 12.1 18.1





#42

Toluene

Concen: 48.726 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

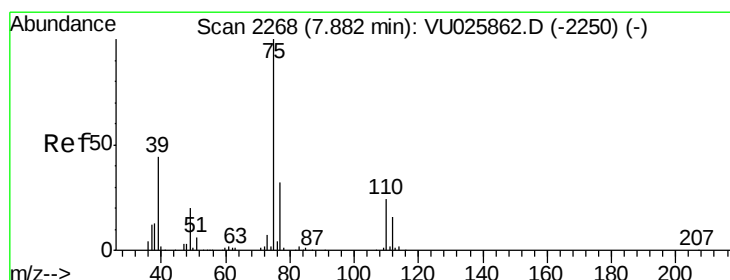
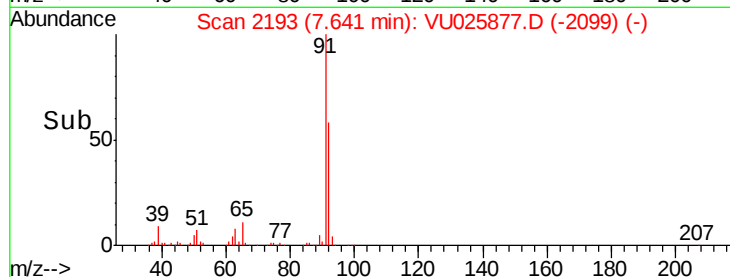
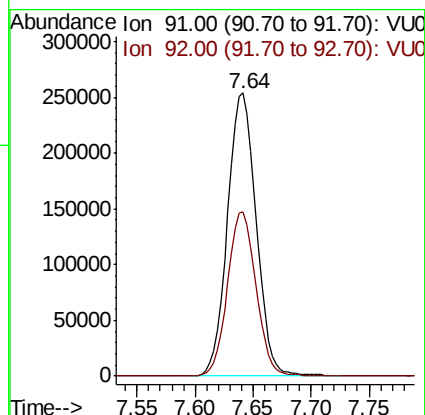
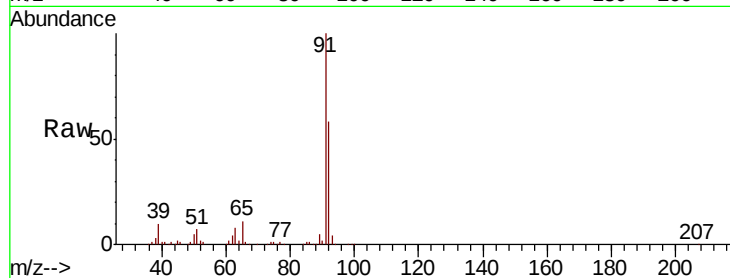
VSTD05054

Tgt Ion: 91 Resp: 436117

Ion Ratio Lower Upper

91 100

92 58.0 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 49.743 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025877.D

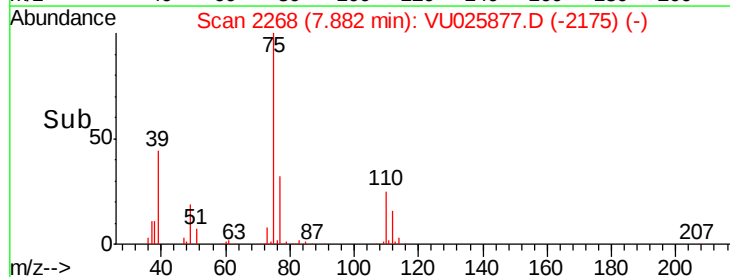
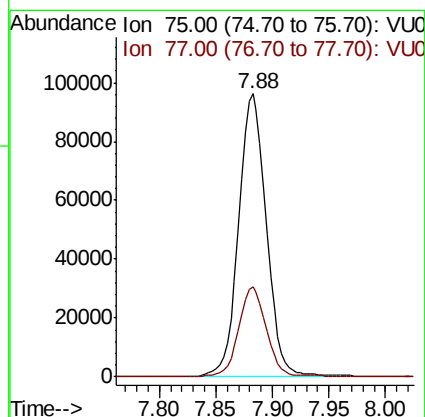
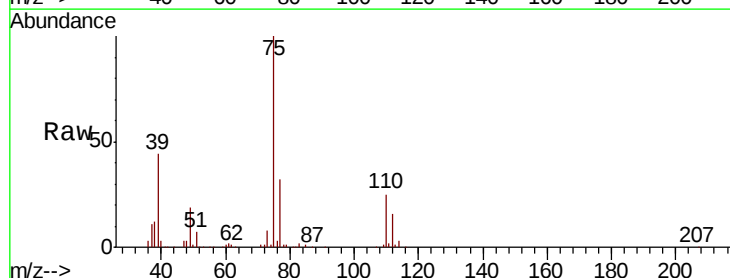
Acq: 04 Aug 2018 16:57

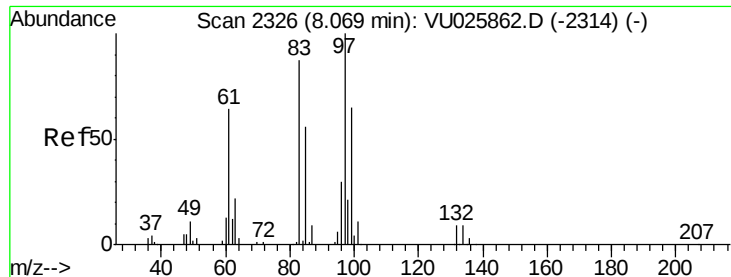
Tgt Ion: 75 Resp: 165073

Ion Ratio Lower Upper

75 100

77 31.8 22.2 41.2

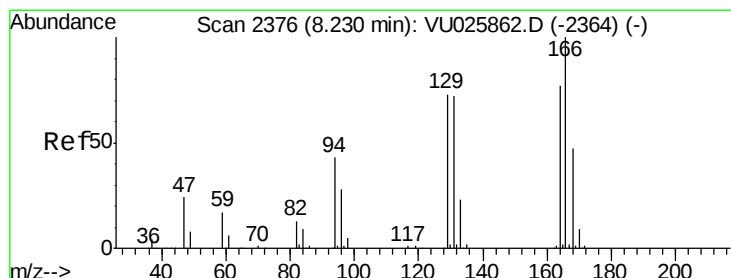
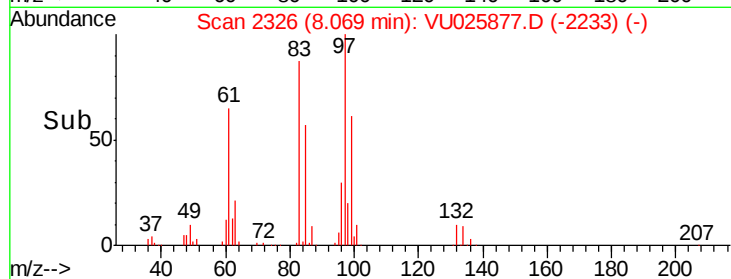
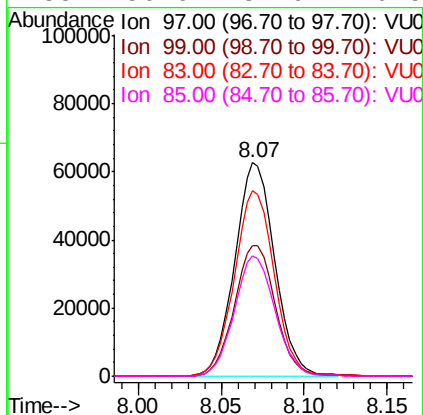
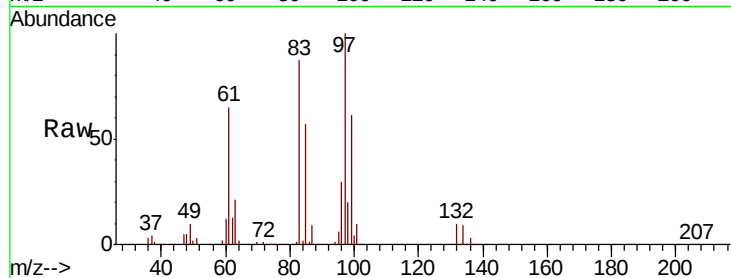




#45
 1,1,2-Trichloroethane
 Concen: 48.244 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

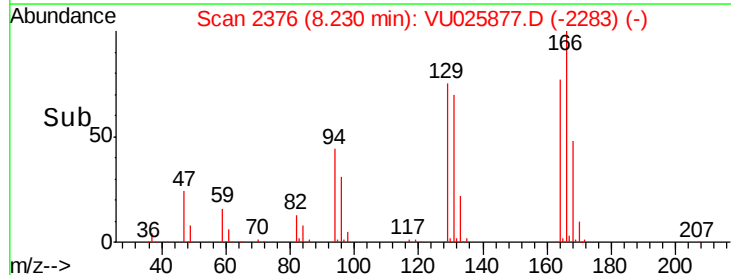
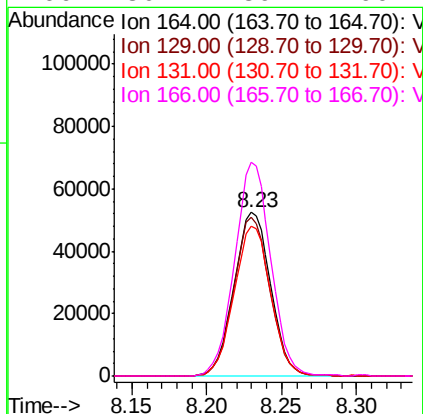
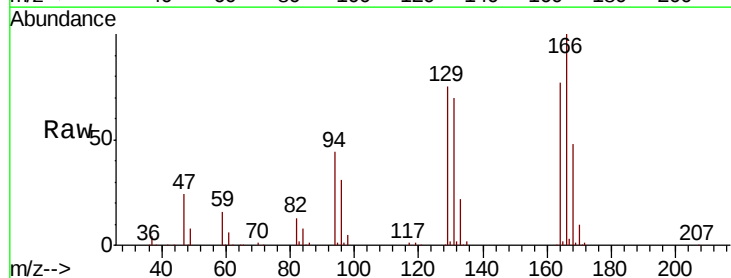
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

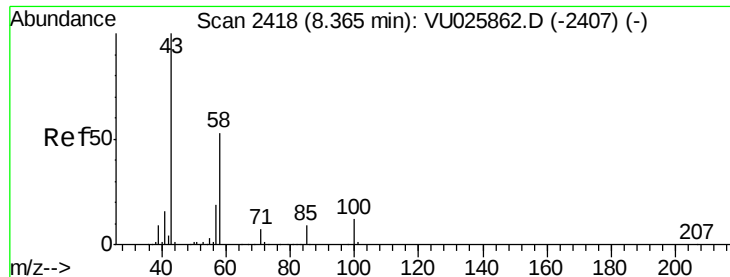
Tgt Ion:	97	Resp:	104952
Ion	Ratio	Lower	Upper
97	100		
99	61.4	44.3	82.3
83	87.2	59.8	111.1
85	56.6	37.9	70.5



#46
 Tetrachloroethene
 Concen: 46.930 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion:	164	Resp:	89595
Ion	Ratio	Lower	Upper
164	100		
129	97.2	65.1	120.9
131	91.8	62.8	116.6
166	130.4	89.7	166.7

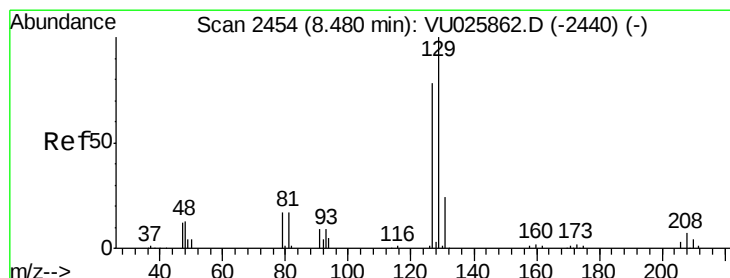
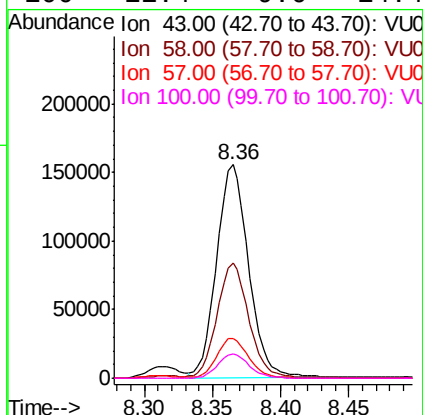
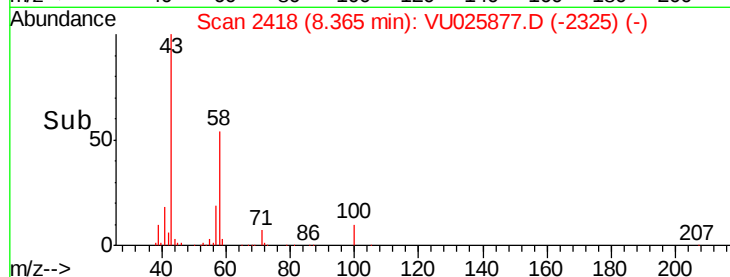
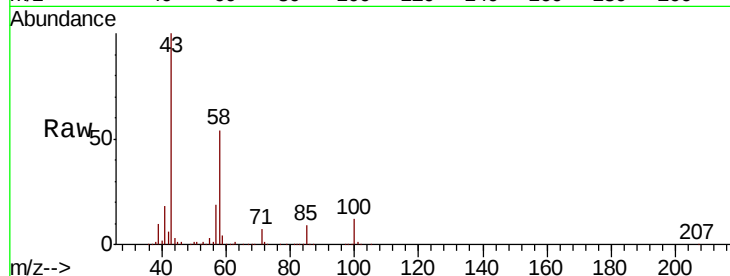




#48
2-Hexanone
Concen: 100.451 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

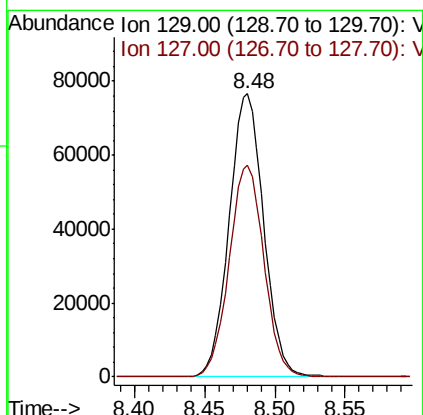
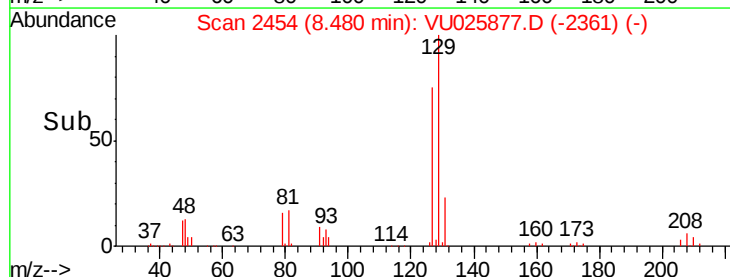
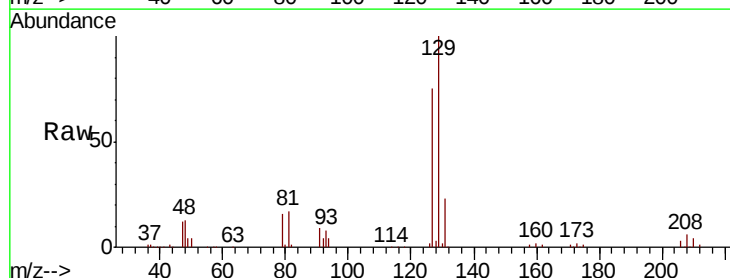
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

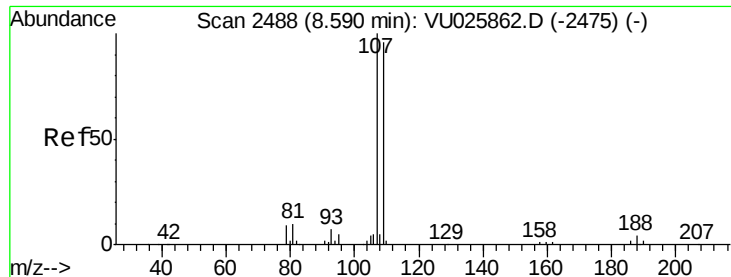
Tgt Ion: 43 Resp: 252803
Ion Ratio Lower Upper
43 100
58 54.0 42.9 64.3
57 18.4 15.4 23.2
100 11.4 9.6 14.4



#49
Dibromochloromethane
Concen: 51.497 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025877.D
Acq: 04 Aug 2018 16:57

Tgt Ion: 129 Resp: 131415
Ion Ratio Lower Upper
129 100
127 74.7 53.8 100.0

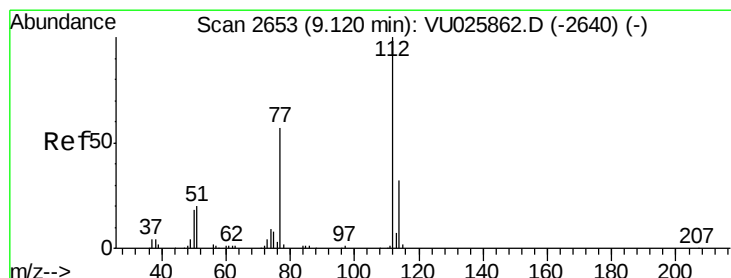
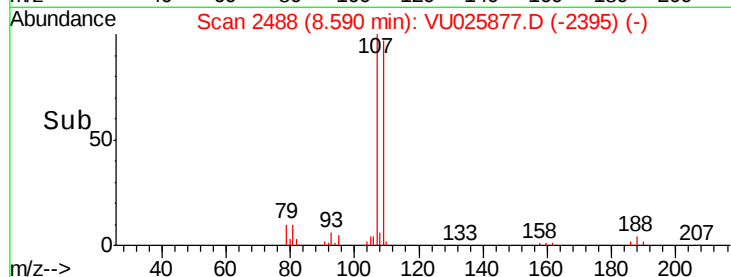
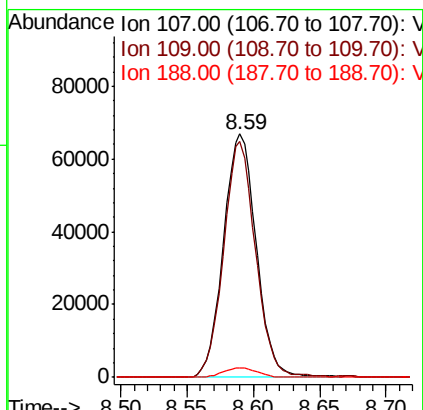
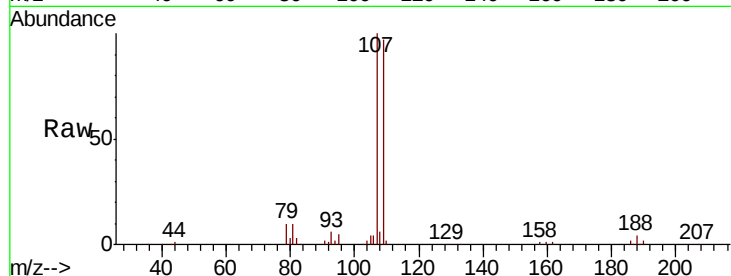




#50
 1,2-Dibromoethane
 Concen: 49.038 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

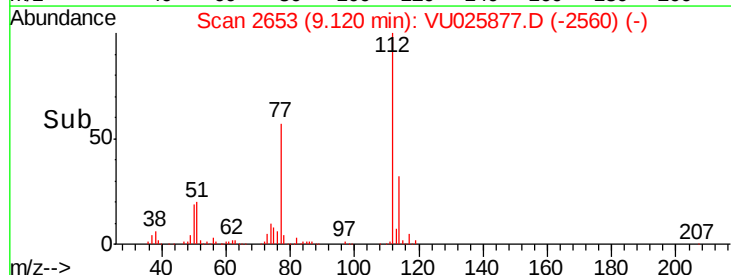
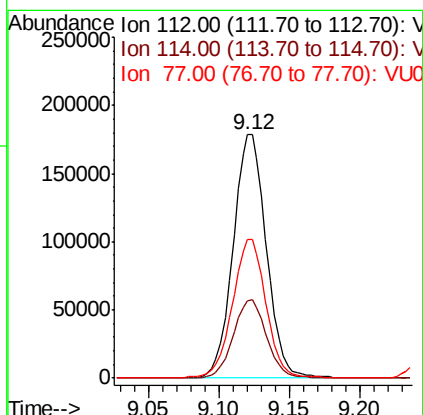
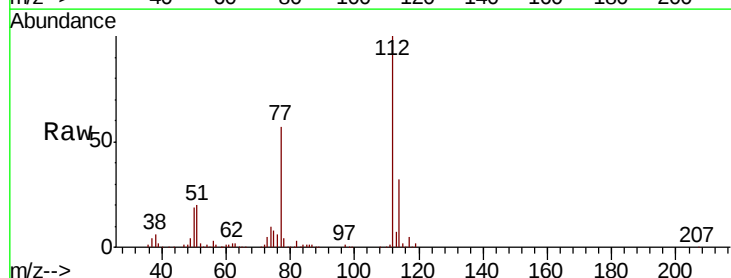
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

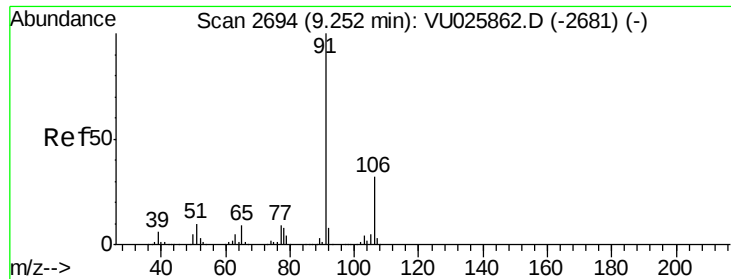
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.6	66.6	123.8
188	4.0	3.2	4.8



#51
 Chlorobenzene
 Concen: 48.813 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.5	41.9
77	56.9	45.8	68.8





#52

Ethylbenzene

Concen: 49.182 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

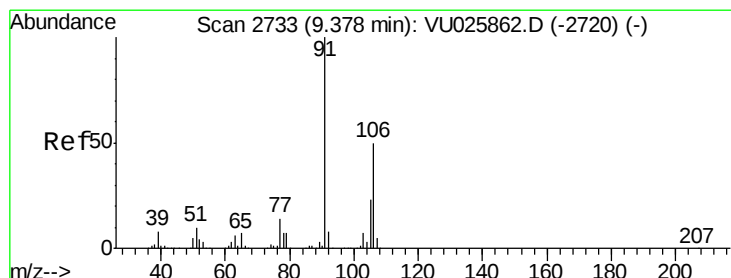
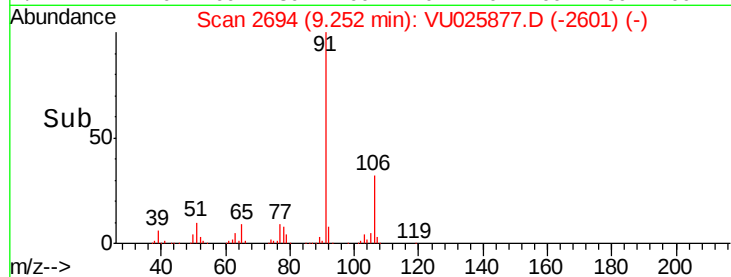
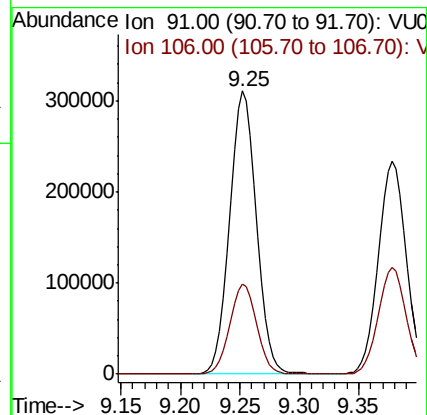
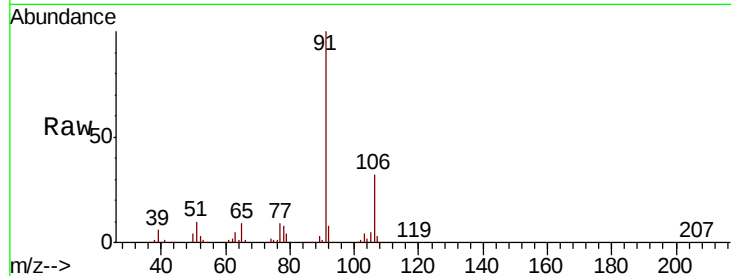
VSTD05054

Tgt Ion: 91 Resp: 485850

Ion Ratio Lower Upper

91 100

106 31.8 22.3 41.5



#53

m,p-Xylene

Concen: 50.251 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025877.D

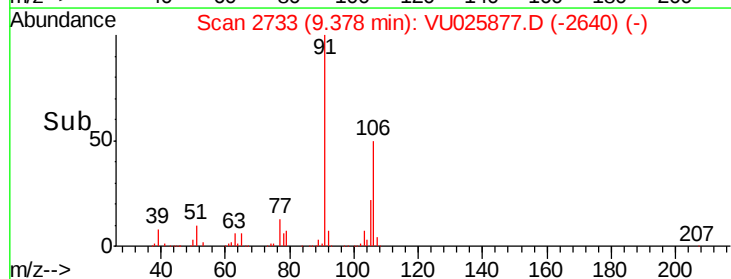
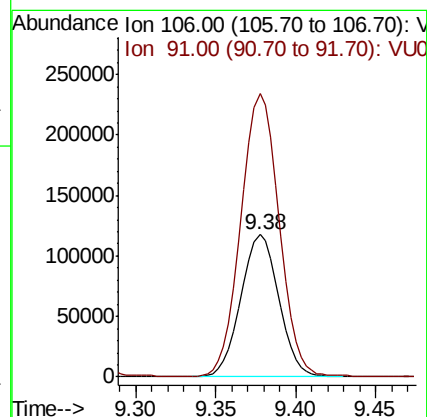
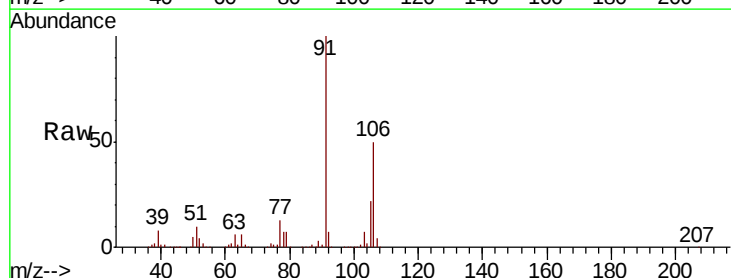
Acq: 04 Aug 2018 16:57

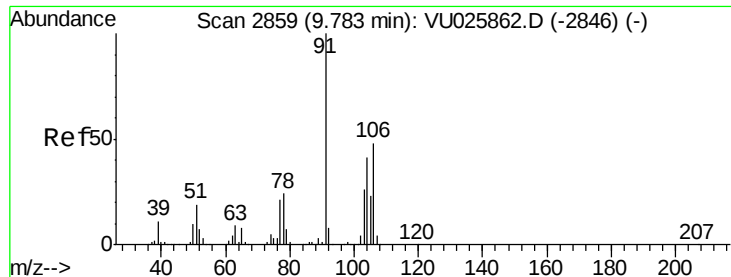
Tgt Ion: 106 Resp: 190145

Ion Ratio Lower Upper

106 100

91 199.3 141.7 263.3





#54

o-xylene

Concen: 47.983 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

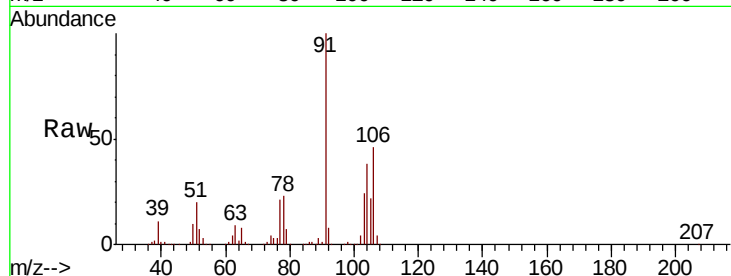
VSTD05054

Tgt Ion:106 Resp: 184230

Ion Ratio Lower Upper

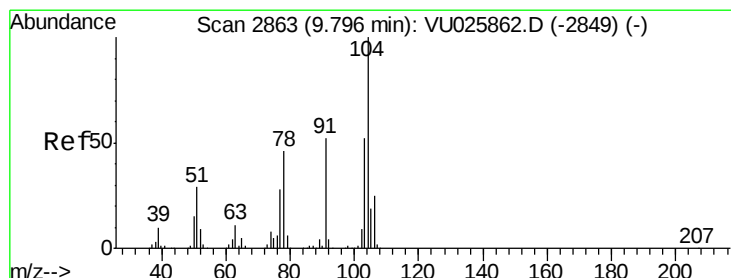
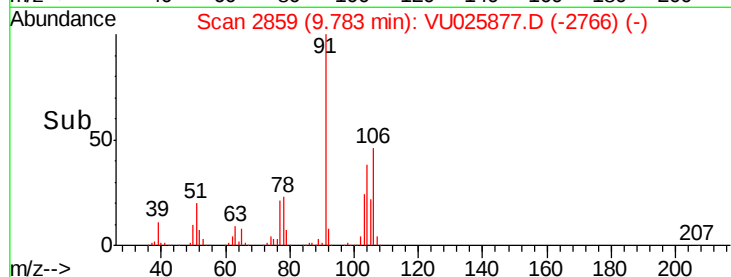
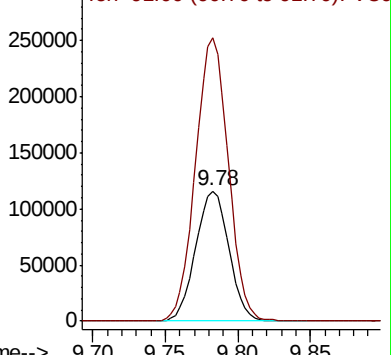
106 100

91 218.0 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.715 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025877.D

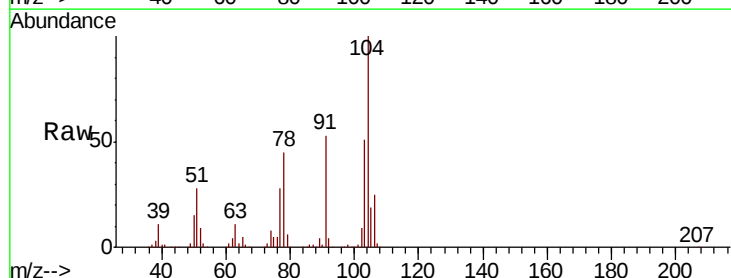
Acq: 04 Aug 2018 16:57

Tgt Ion:104 Resp: 317142

Ion Ratio Lower Upper

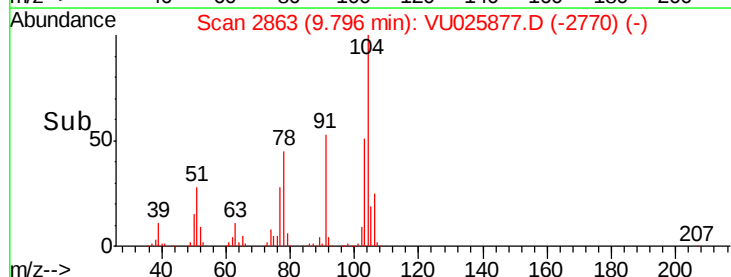
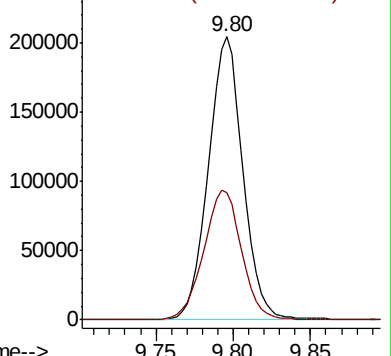
104 100

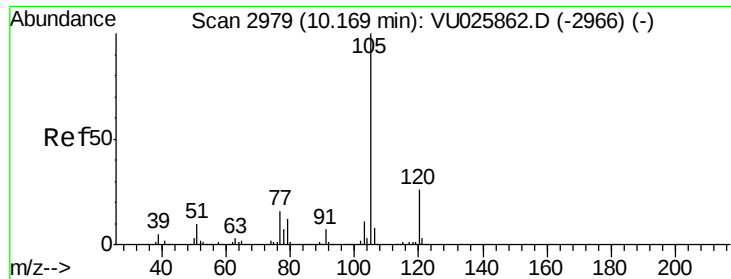
78 44.9 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.311 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

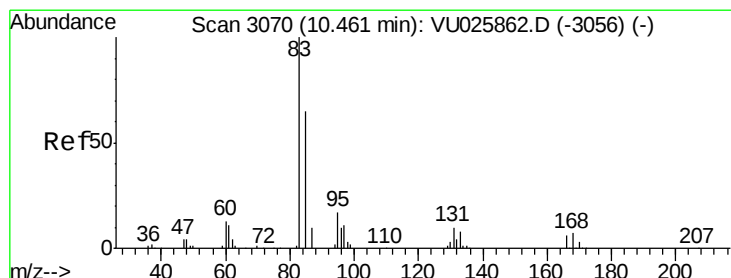
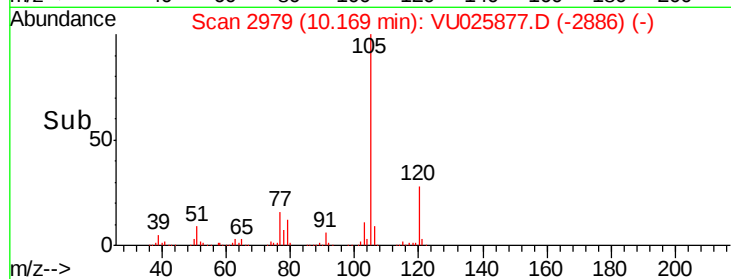
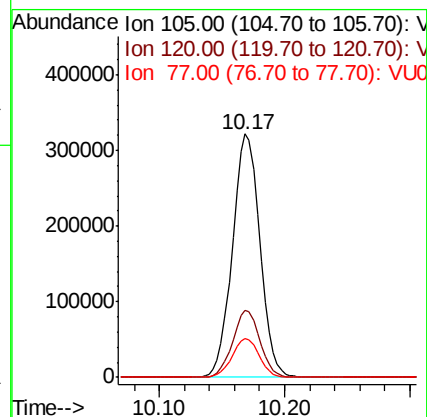
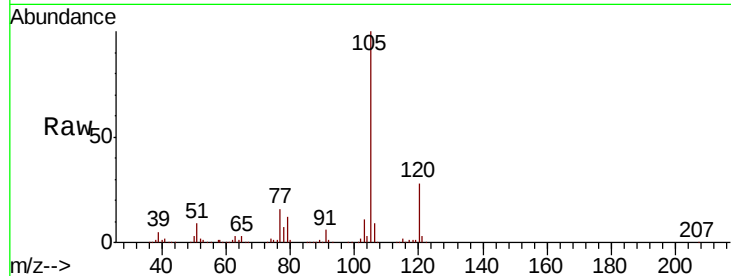
Tgt Ion:105 Resp: 488608

Ion Ratio Lower Upper

105 100

120 27.3 21.7 32.5

77 15.9 12.4 18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 50.703 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

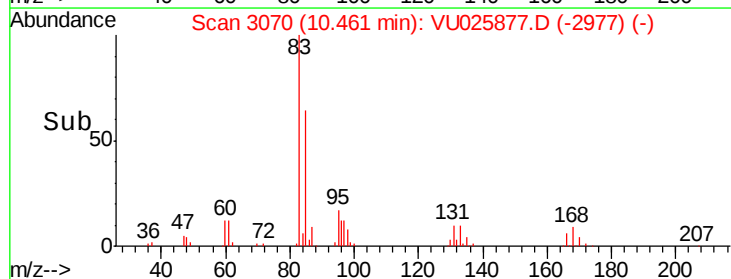
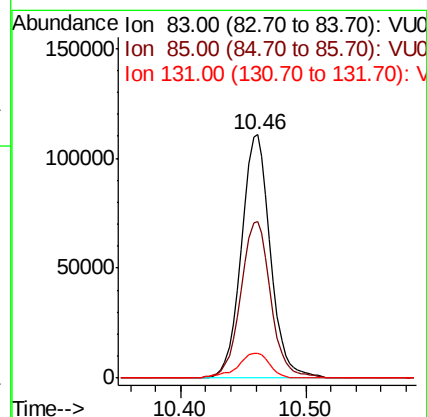
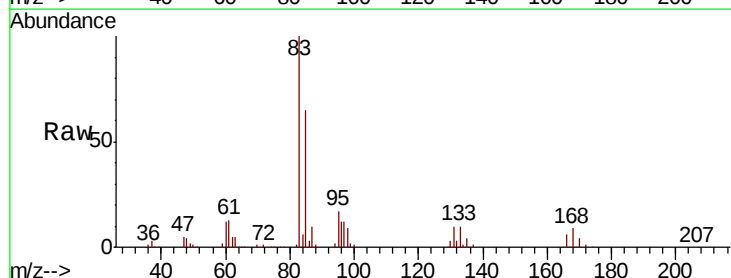
Tgt Ion: 83 Resp: 177917

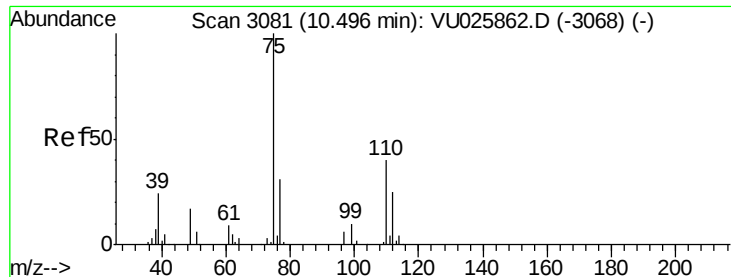
Ion Ratio Lower Upper

83 100

85 64.5 45.1 83.7

131 10.2 8.7 13.1





#59

1,2,3-Trichloropropane

Concen: 51.567 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

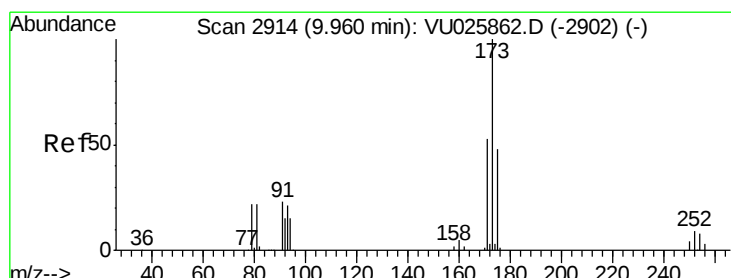
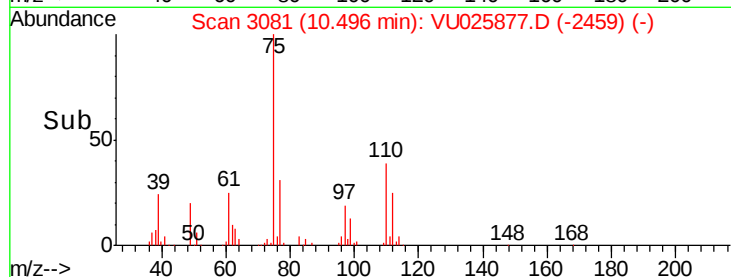
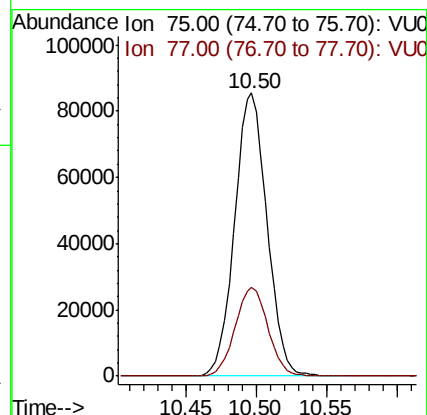
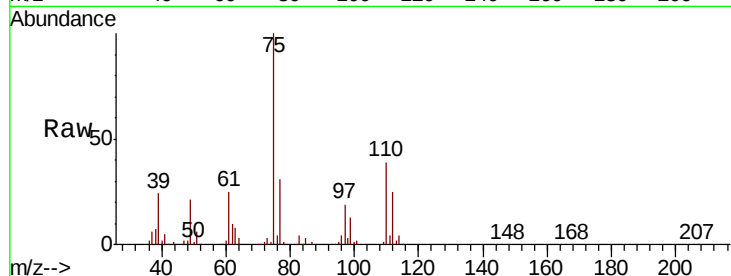
VSTD05054

Tgt Ion: 75 Resp: 137370

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.8



#61

Bromoform

Concen: 47.256 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

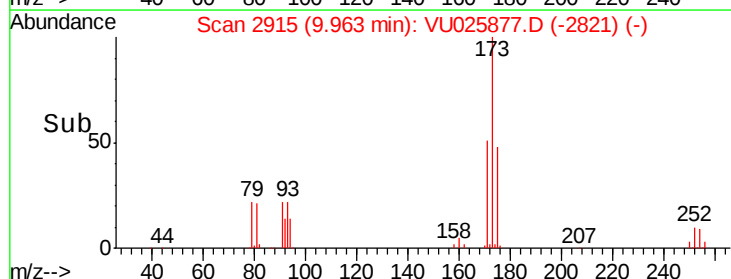
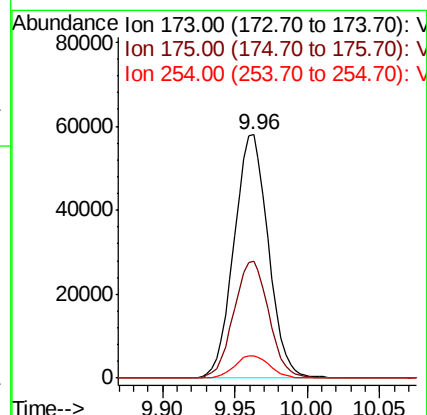
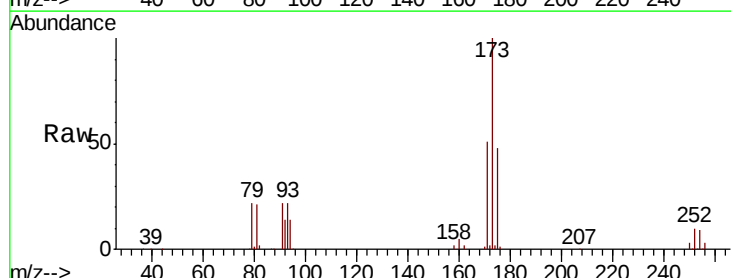
Tgt Ion: 173 Resp: 95546

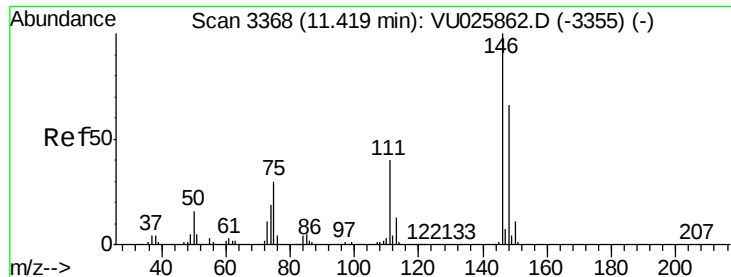
Ion Ratio Lower Upper

173 100

175 48.9 39.8 59.8

254 9.4 7.3 10.9

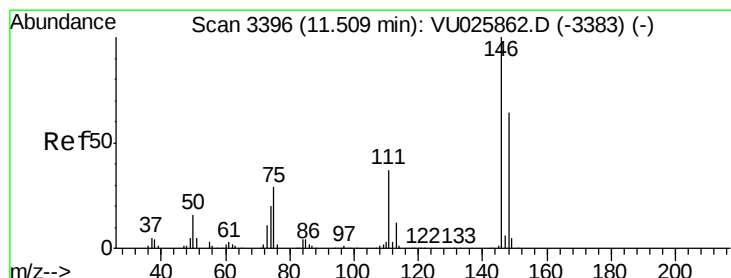
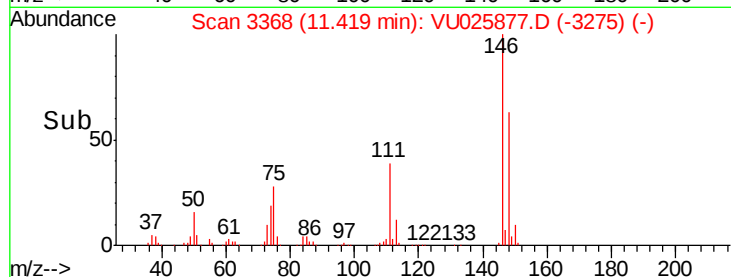
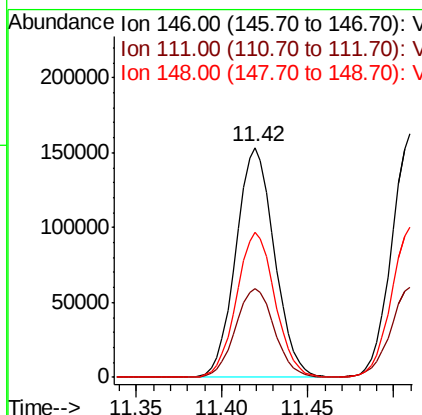
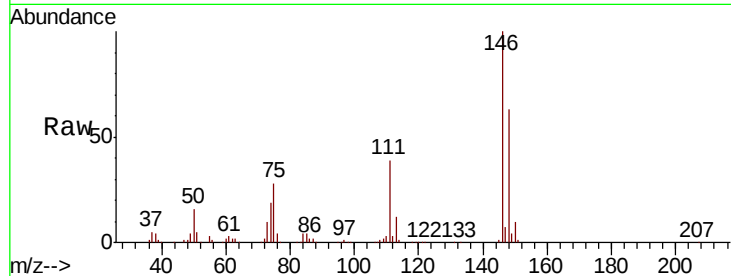




#62
 1,3-Dichlorobenzene
 Concen: 48.423 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

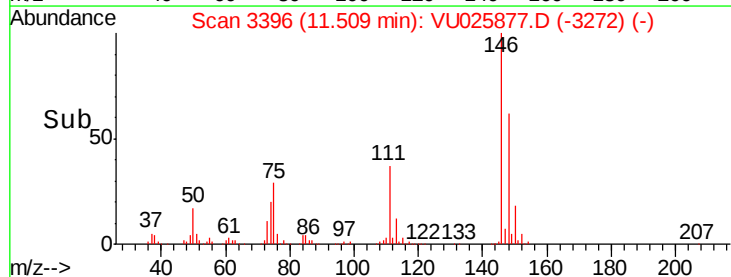
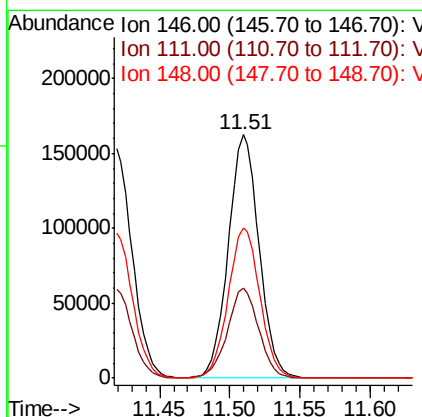
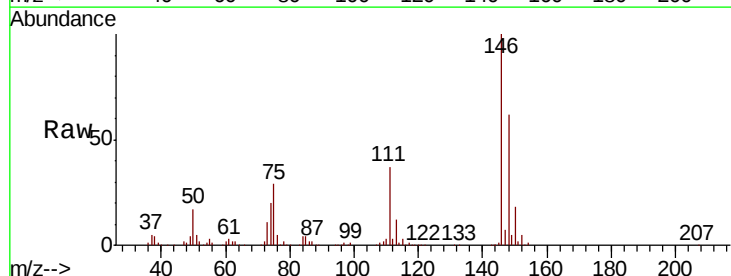
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

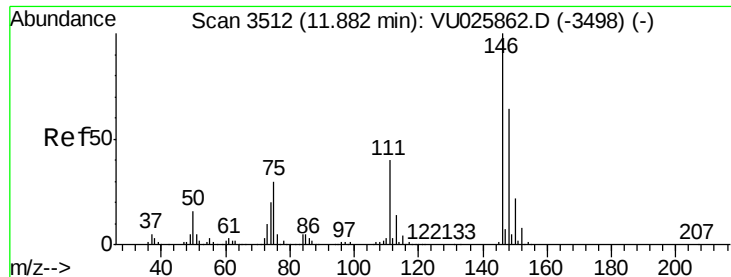
Tgt Ion:146 Resp: 239427
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.7 51.5
 148 63.0 45.5 84.5



#63
 1,4-Dichlorobenzene
 Concen: 49.157 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion:146 Resp: 248104
 Ion Ratio Lower Upper
 146 100
 111 36.9 26.9 49.9
 148 61.9 44.6 82.8

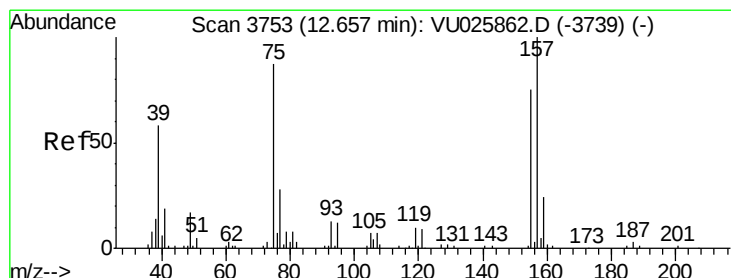
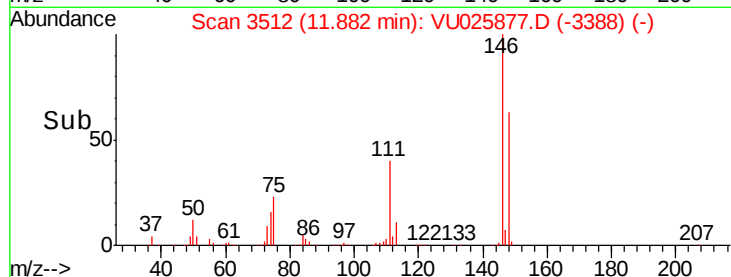
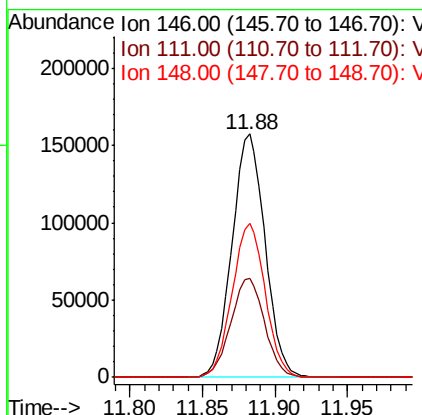
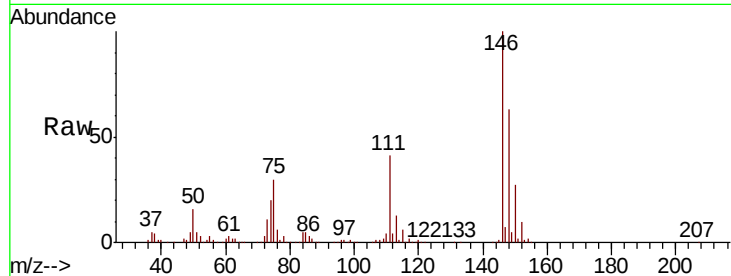




#65
 1,2-Dichlorobenzene
 Concen: 48.241 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

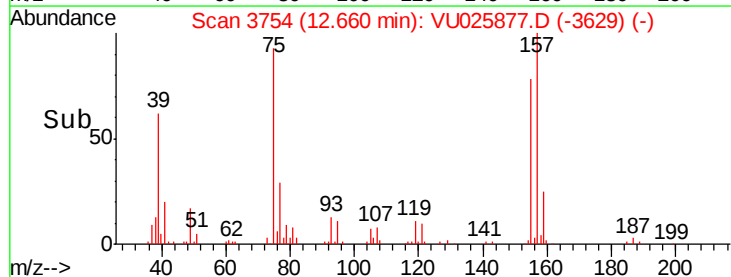
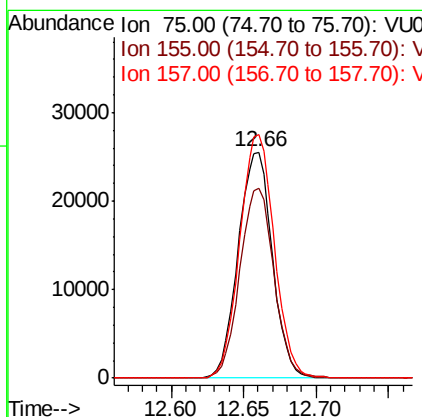
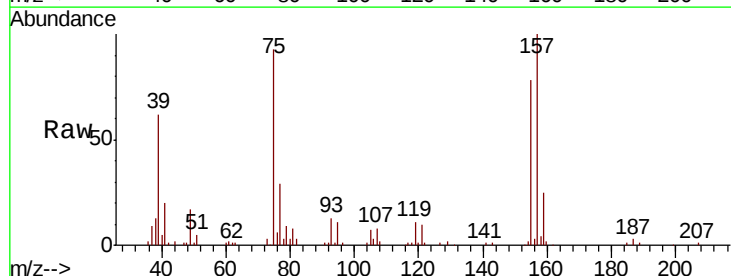
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

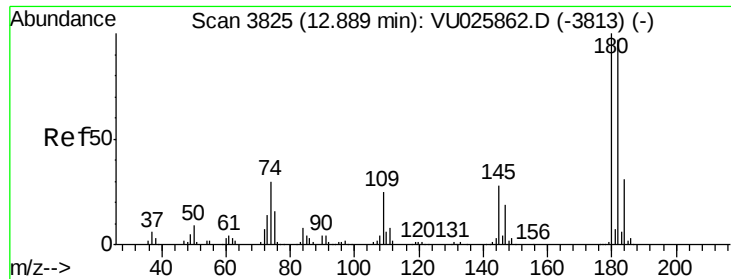
Tgt Ion: 146 Resp: 249891
 Ion Ratio Lower Upper
 146 100
 111 40.7 32.4 48.6
 148 63.1 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.273 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion: 75 Resp: 41770
 Ion Ratio Lower Upper
 75 100
 155 84.0 66.3 99.5
 157 107.7 91.5 137.3

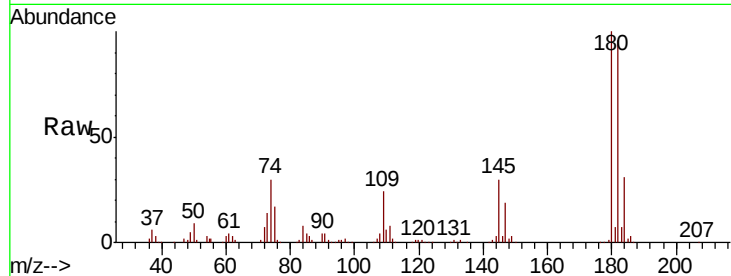




#67
 1,3,5-Trichlorobenzene
 Concen: 46.943 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.3	115.9
184	30.3	24.6	36.8
145	29.6	23.0	34.6



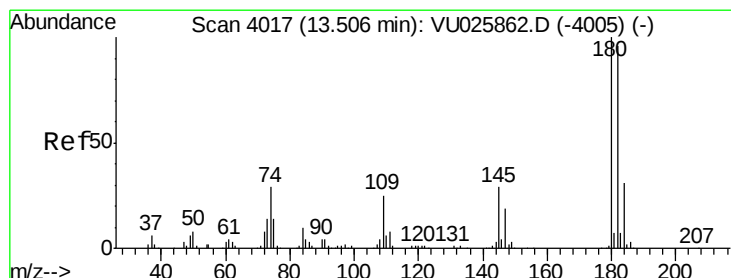
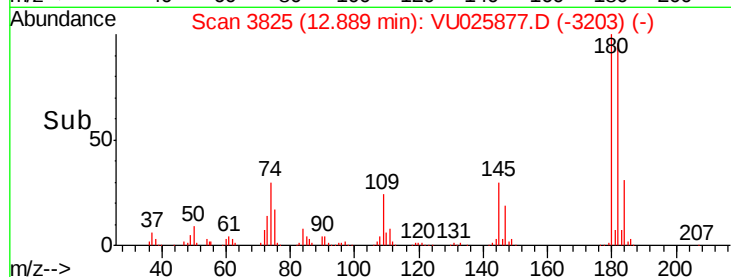
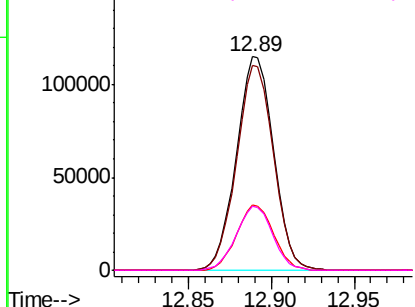
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

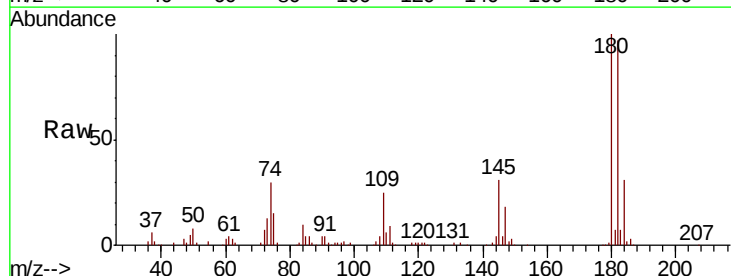
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 46.963 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025877.D
 Acq: 04 Aug 2018 16:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.4	78.1	117.1
145	30.9	23.4	35.2

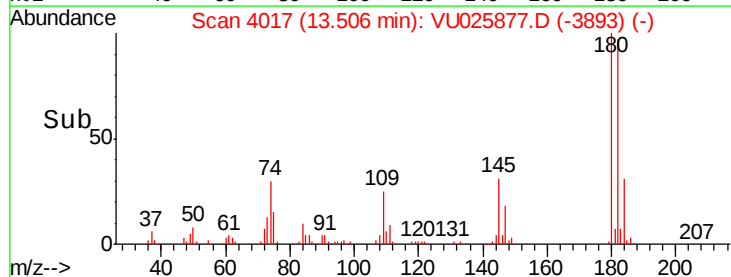
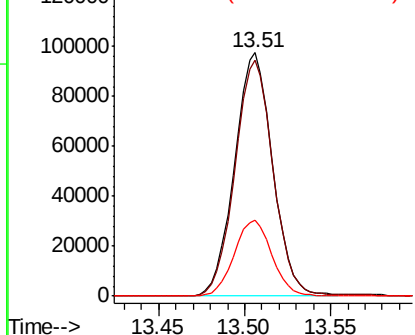


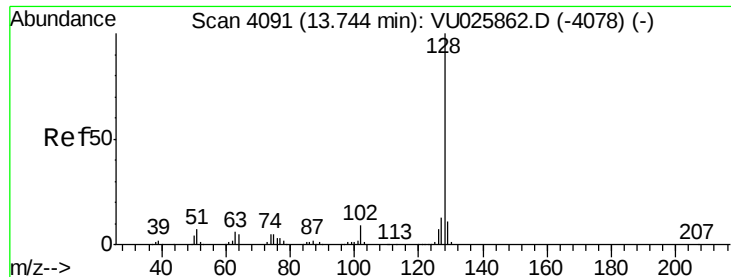
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 48.026 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

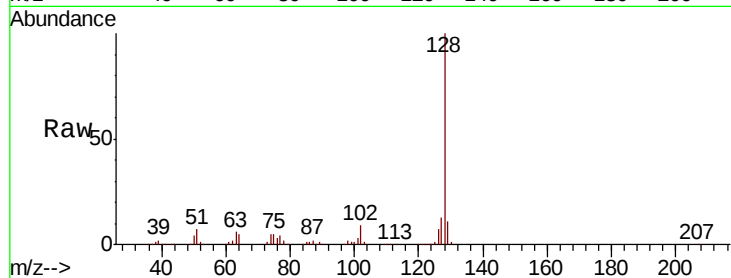
Tgt Ion:128 Resp: 463271

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

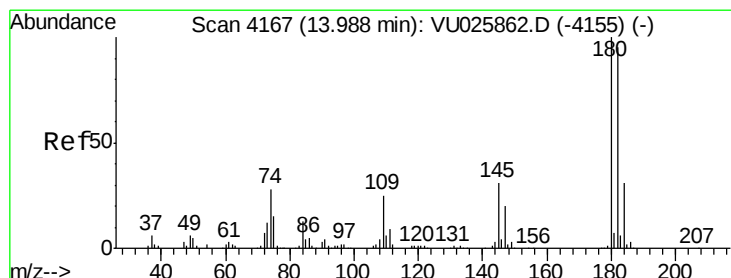
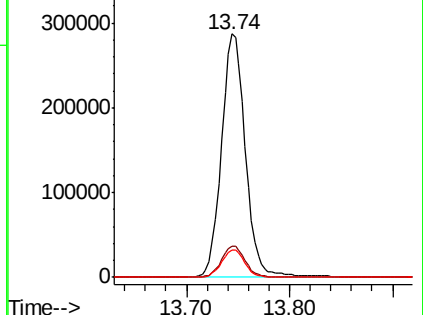
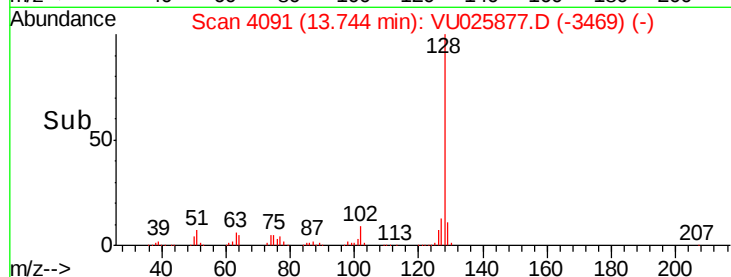
129 11.0 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.164 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025877.D

Acq: 04 Aug 2018 16:57

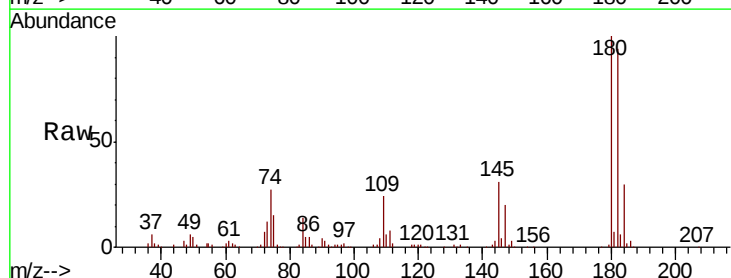
Tgt Ion:180 Resp: 163317

Ion Ratio Lower Upper

180 100

182 95.3 76.6 114.8

145 31.2 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

