

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U101518\
 Data File : VU027652.D
 Acq On : 15 Oct 2018 08:42
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Oct 16 05:53:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 13 04:07:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	196165	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	180090	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	84397	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	61216	39.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.30%
7) Chloroethane-d5	1.67	69	52265	43.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.90%
11) 1,1-Dichloroethene-d2	2.28	63	124574	43.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.04%
21) 2-Butanone-d5	4.18	46	121726	97.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.67%
24) Chloroform-d	4.65	84	119520	48.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.31	65	80347	46.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.86%
32) Benzene-d6	5.34	84	234259	45.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.78%
36) 1,2-Dichloropropane-d6	6.33	67	83066	46.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.98%
41) Toluene-d8	7.57	98	201650	43.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.42%
43) trans-1,3-Dichloropropene-	7.85	79	37512	44.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.06%
47) 2-Hexanone-d5	8.31	63	82380	92.26	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.26%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	112013	48.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	74774	45.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.58%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	91172	46.867	ug/L 99
3) Chloromethane	1.33	50	107006	47.870	ug/L 99
5) Vinyl chloride	1.40	62	100553	46.034	ug/L 97
6) Bromomethane	1.62	94	46984	49.220	ug/L 97
8) Chloroethane	1.69	64	57655	44.044	ug/L 99
9) Trichlorofluoromethane	1.88	101	107353	49.100	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	62837	48.409	ug/L 98
12) 1,1-Dichloroethene	2.29	96	55951	44.155	ug/L 94
13) Acetone	2.32	43	138656	135.647	ug/L 99
14) Carbon disulfide	2.48	76	194401	41.765	ug/L 99
15) Methyl Acetate	2.62	43	100450	49.040	ug/L 99
16) Methylene chloride	2.70	84	72485	47.098	ug/L 94
17) trans-1,2-Dichloroethene	2.98	96	61101	43.544	ug/L 94
18) Methyl tert-butyl Ether	3.00	73	223946	48.000	ug/L 99
19) 1,1-Dichloroethane	3.45	63	140453	48.475	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	72082	46.307	ug/L 100
22) 2-Butanone	4.26	43	160061	109.389	ug/L 98

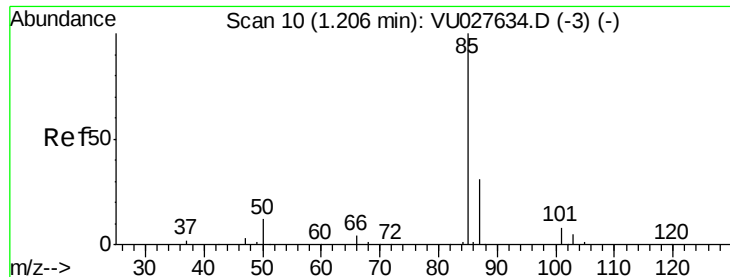
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101518\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	33859	47.698	ug/L	98
25) Chloroform	4.67	83	133646	47.748	ug/L	100
27) 1,2-Dichloroethane	5.40	62	108593	48.309	ug/L	99
29) Cyclohexane	5.00	56	128907	47.191	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	107828	50.042	ug/L	99
31) Carbon tetrachloride	5.14	117	92163	50.853	ug/L	100
33) Benzene	5.39	78	289229	48.873	ug/L	100
34) Trichloroethene	6.19	95	66991	47.069	ug/L	99
35) Methylcyclohexane	6.42	83	114634	46.357	ug/L	97
37) 1,2-Dichloropropane	6.43	63	86211	50.281	ug/L	100
38) Bromodichloromethane	6.76	83	98521	50.566	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	121061	48.052	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	251854	100.309	ug/L	98
42) Toluene	7.64	91	286395	48.231	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	113534	48.549	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	68653	49.880	ug/L	97
46) Tetrachloroethene	8.23	164	49948	47.221	ug/L	99
48) 2-Hexanone	8.36	43	214133	108.008	ug/L	98
49) Dibromochloromethane	8.48	129	71936	50.124	ug/L	98
50) 1,2-Dibromoethane	8.59	107	68544	46.941	ug/L	99
51) Chlorobenzene	9.12	112	174305	46.431	ug/L	99
52) Ethylbenzene	9.25	91	312415	47.385	ug/L	99
53) m,p-Xylene	9.38	106	113351	46.972	ug/L	96
54) o-xylene	9.78	106	112316	48.312	ug/L	99
55) Styrene	9.79	104	193812	48.684	ug/L	100
56) Isopropylbenzene	10.17	105	295843	48.559	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	118809	49.267	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	97108	50.026	ug/L	100
61) Bromoform	9.96	173	51318	53.514	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	121421	46.226	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	126662	46.229	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	131758	49.275	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	25855	52.160	ug/L	92
67) 1,3,5-Trichlorobenzene	12.89	180	89328	44.017	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	75564	40.489	ug/L	100
69) Naphthalene	13.74	128	273314	47.494	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	84017	44.270	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 46.867 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

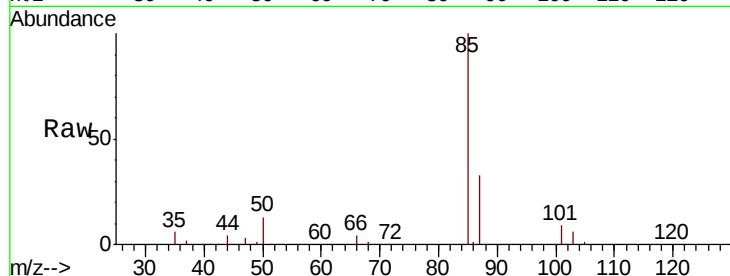
VSTD05048

Tgt Ion: 85 Resp: 91172

Ion Ratio Lower Upper

85 100

87 32.3 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

100000

80000

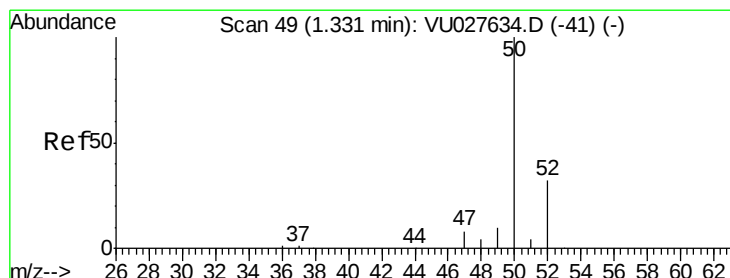
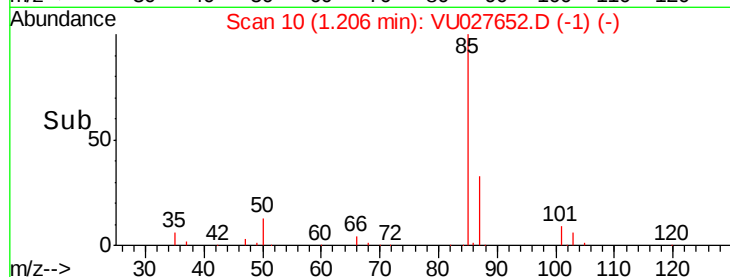
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 47.870 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027652.D

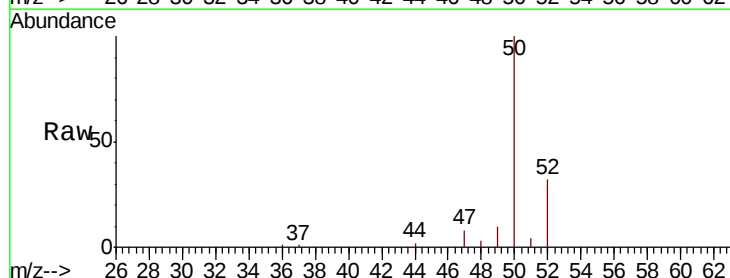
Acq: 15 Oct 2018 08:42

Tgt Ion: 50 Resp: 107006

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

120000

100000

80000

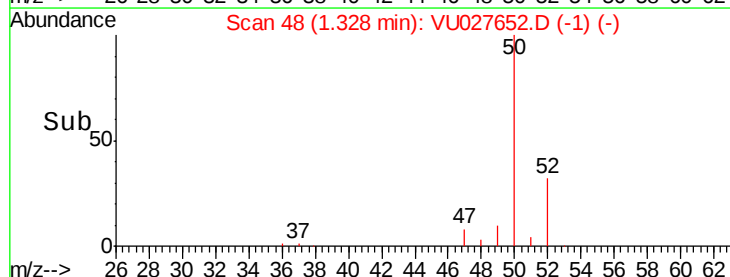
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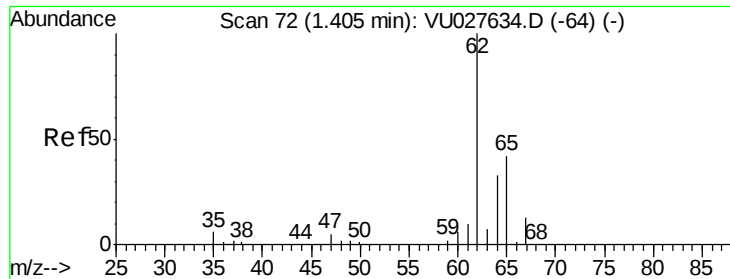
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 46.034 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

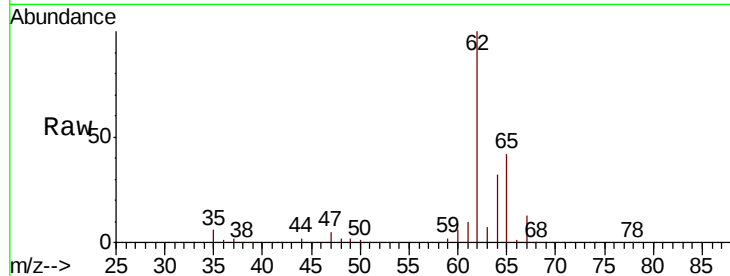
VSTD05048

Tgt Ion: 62 Resp: 100553

Ion Ratio Lower Upper

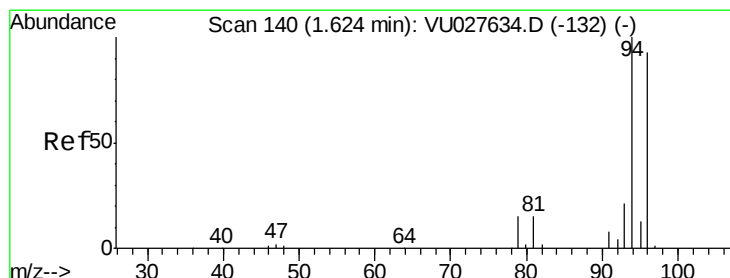
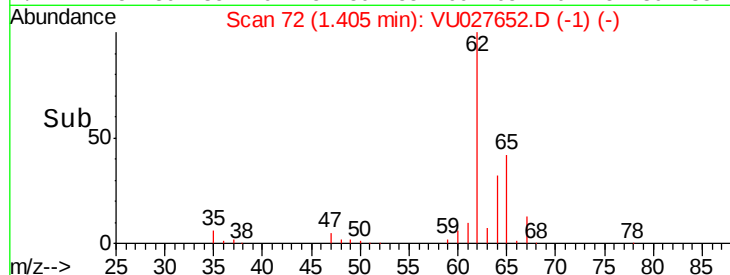
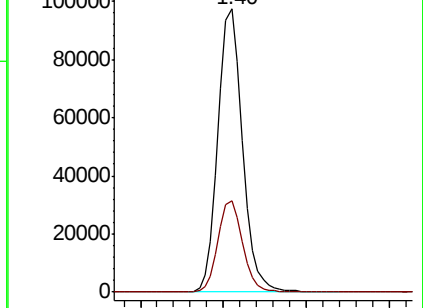
62 100

64 32.1 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 49.220 ug/L

RT: 1.62 min Scan# 139

Delta R.T. -0.00 min

Lab File: VU027652.D

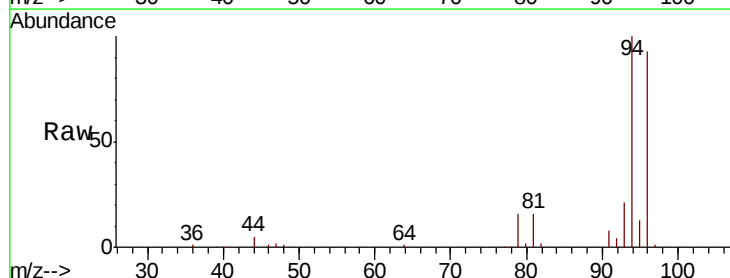
Acq: 15 Oct 2018 08:42

Tgt Ion: 94 Resp: 46984

Ion Ratio Lower Upper

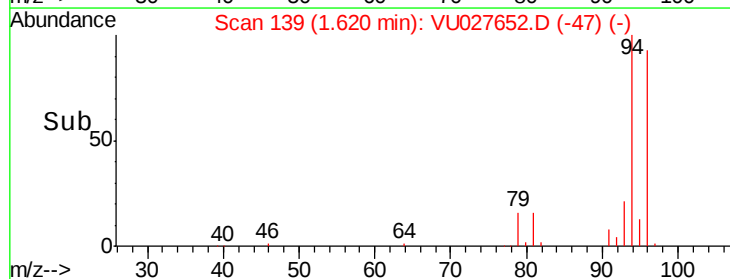
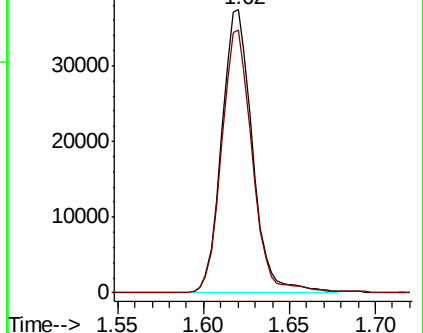
94 100

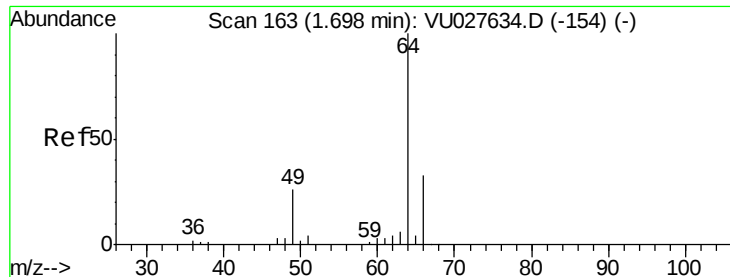
96 92.7 66.6 123.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

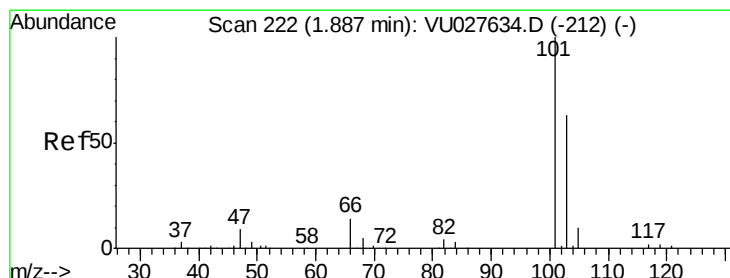
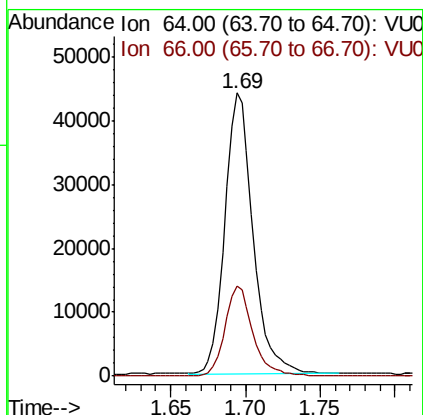
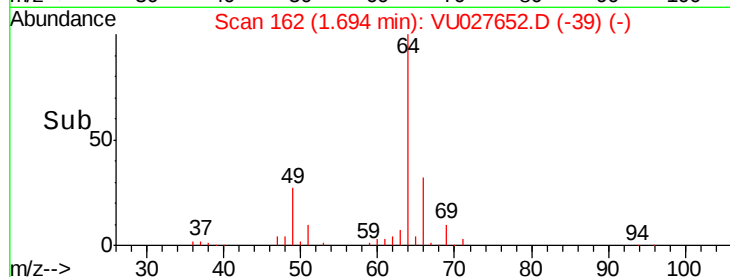
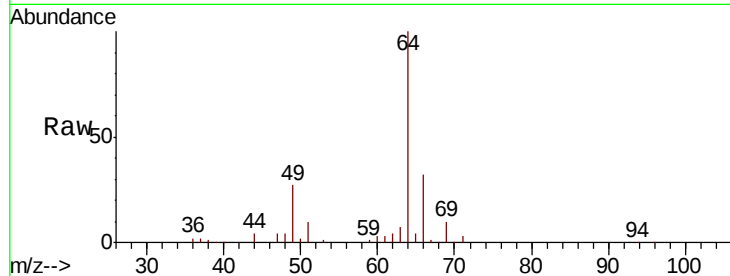




#8
Chloroethane
Concen: 44.044 ug/L
RT: 1.69 min Scan# 162
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

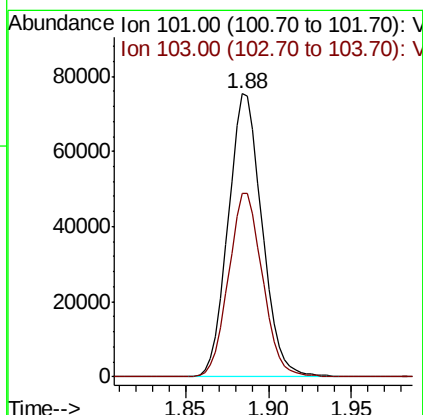
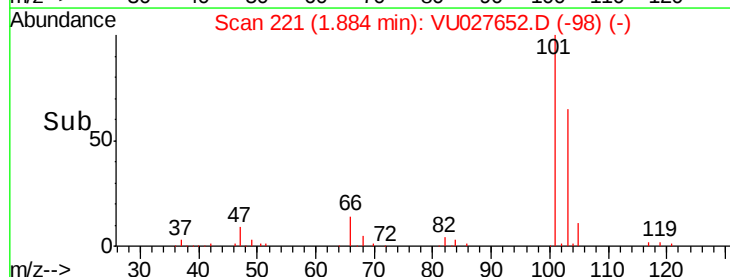
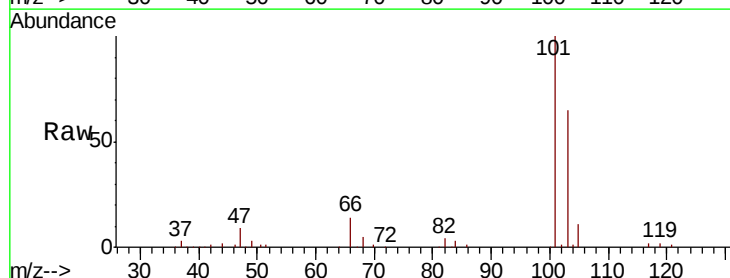
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

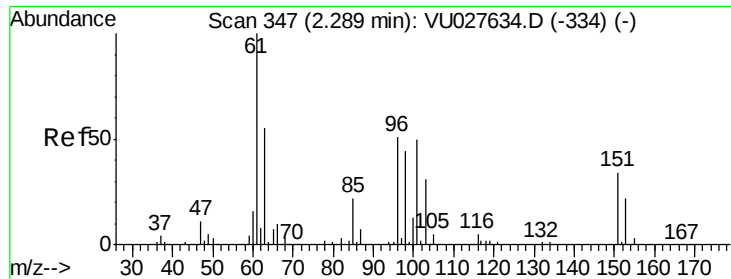
Tgt Ion: 64 Resp: 57655
Ion Ratio Lower Upper
64 100
66 32.0 22.0 40.8



#9
Trichlorofluoromethane
Concen: 49.100 ug/L
RT: 1.88 min Scan# 221
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 101 Resp: 107353
Ion Ratio Lower Upper
101 100
103 65.0 51.1 76.7





#10

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

Concen: 48.409 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

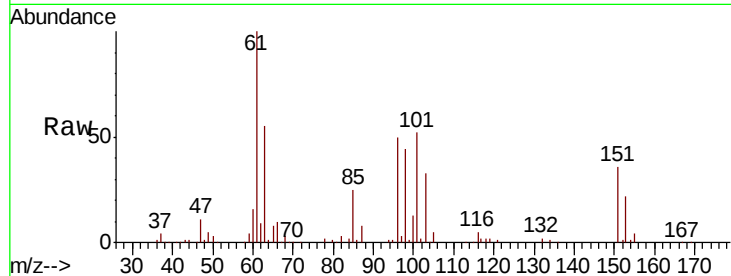
Tgt Ion: 101 Resp: 62837

Ion Ratio Lower Upper

101 100

85 45.9 35.9 53.9

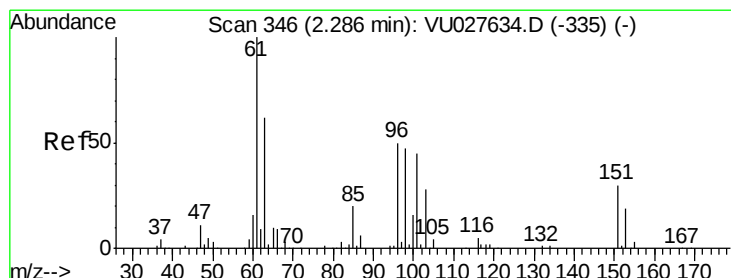
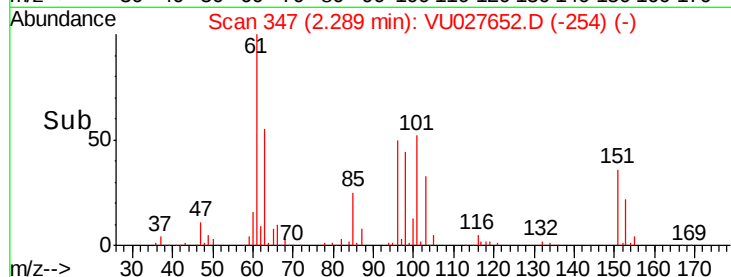
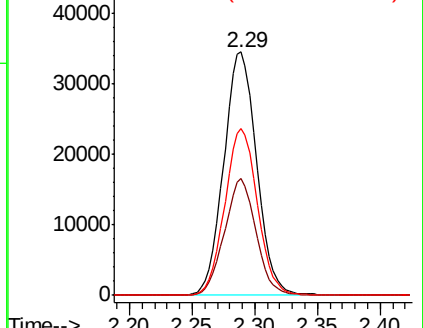
151 67.8 55.7 83.5



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: 44.155 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

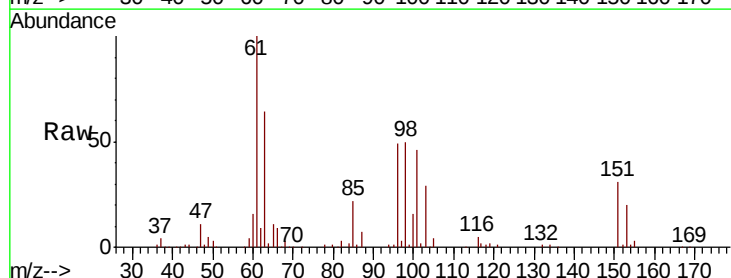
Tgt Ion: 96 Resp: 55951

Ion Ratio Lower Upper

96 100

61 203.1 135.2 251.0

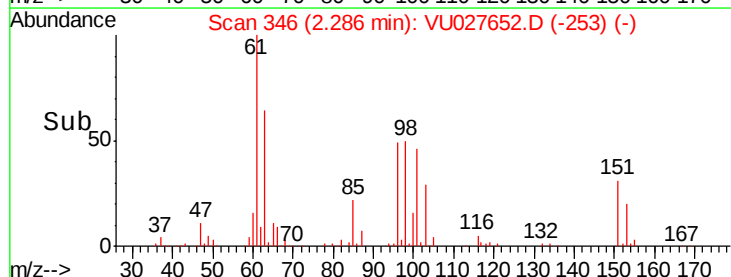
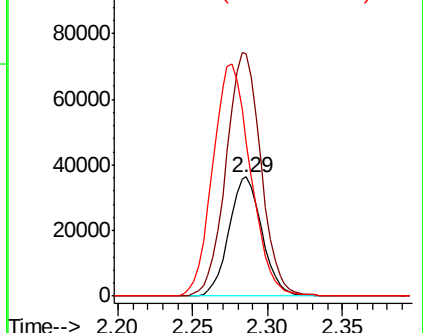
63 129.0 94.3 175.1

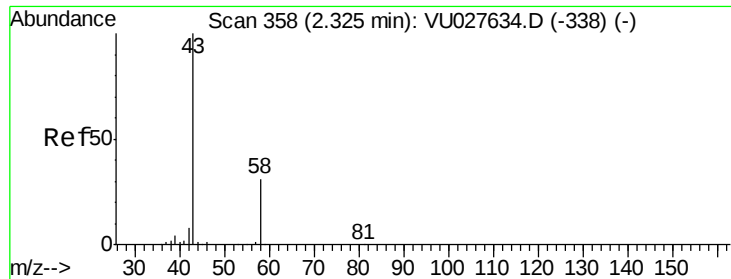


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 135.647 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

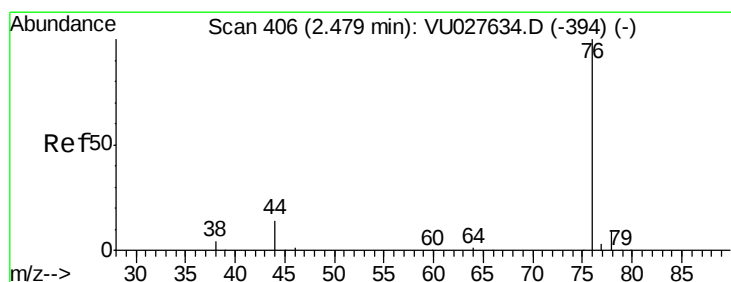
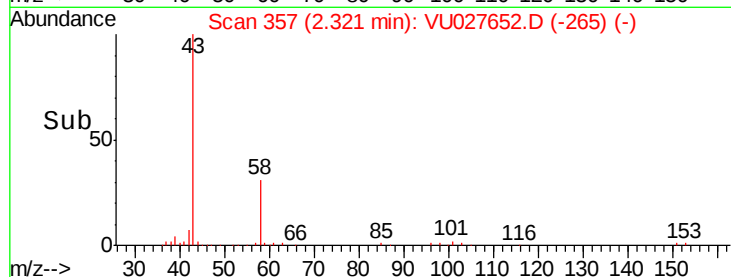
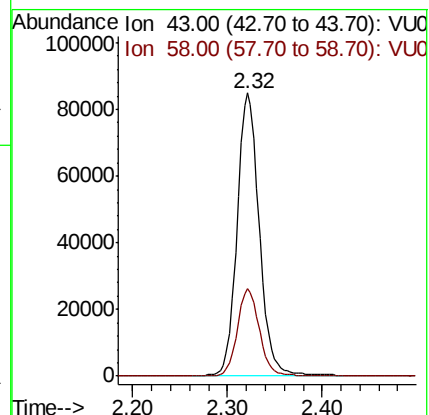
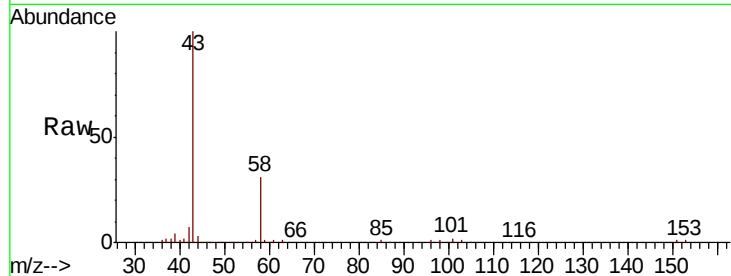
VSTD05048

Tgt Ion: 43 Resp: 138656

Ion Ratio Lower Upper

43 100

58 30.7 0.0 60.8



#14

Carbon disulfide

Concen: 41.765 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU027652.D

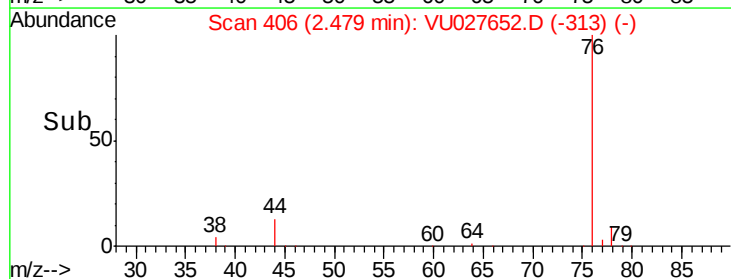
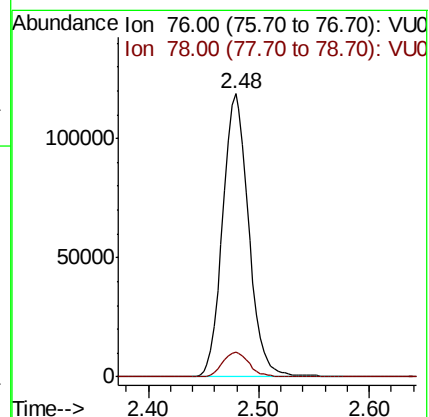
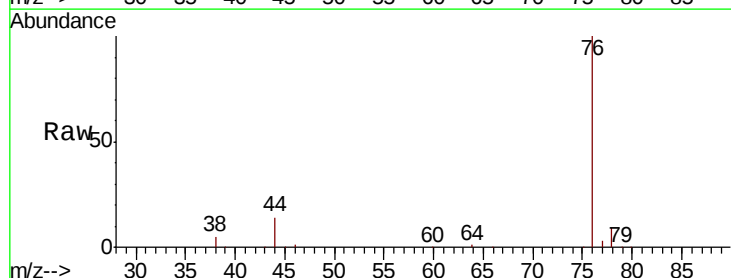
Acq: 15 Oct 2018 08:42

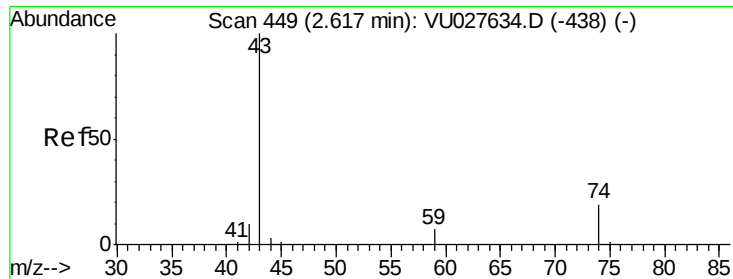
Tgt Ion: 76 Resp: 194401

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.2

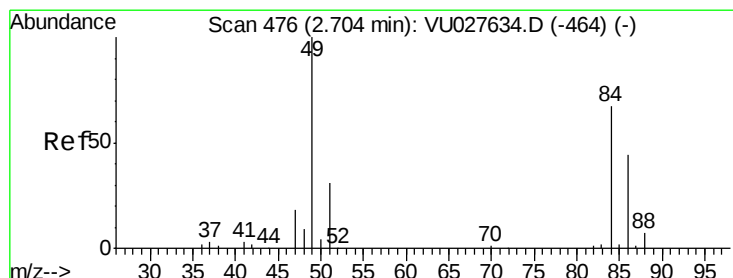
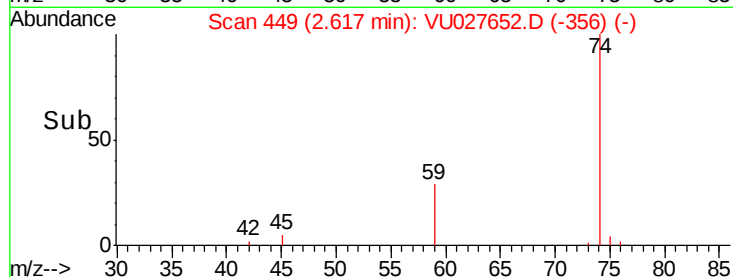
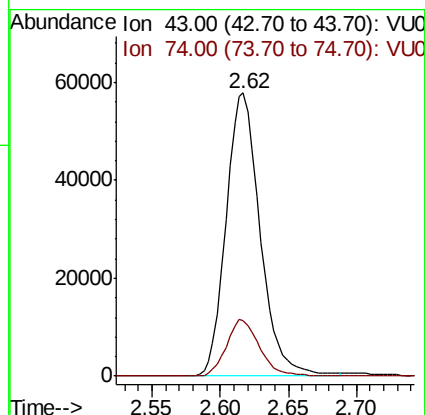
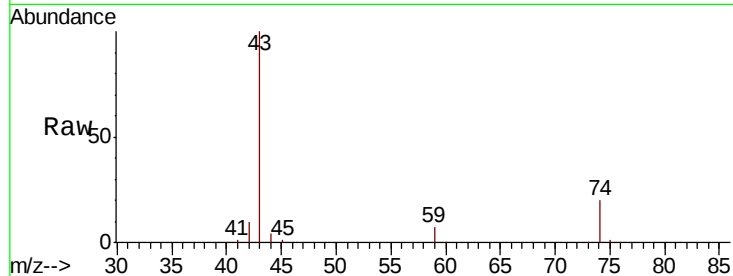




#15
Methyl Acetate
Concen: 49.040 ug/L
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

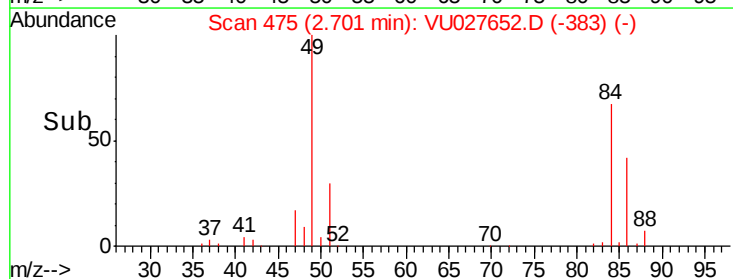
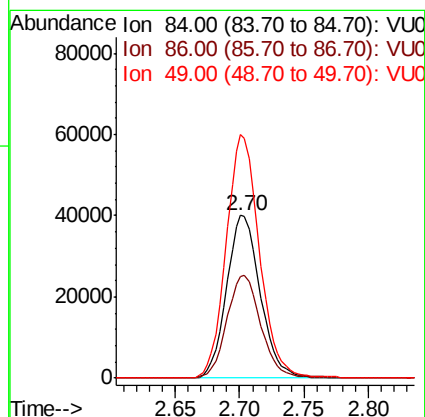
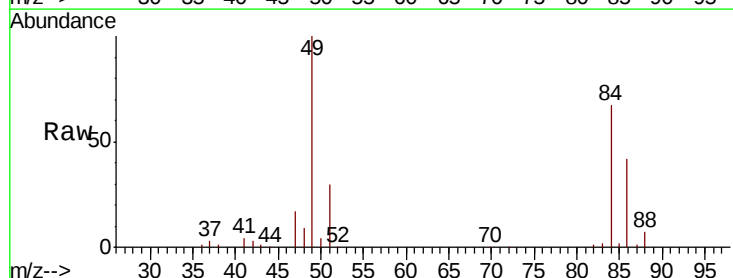
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

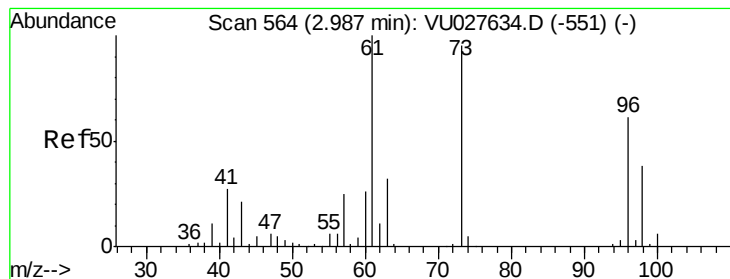
Tgt Ion: 43 Resp: 100450
Ion Ratio Lower Upper
43 100
74 19.4 16.0 24.0



#16
Methylene chloride
Concen: 47.098 ug/L
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 84 Resp: 72485
Ion Ratio Lower Upper
84 100
86 62.6 44.6 82.8
49 149.6 98.3 182.5





#17

trans-1,2-Dichloroethene

Concen: 43.544 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

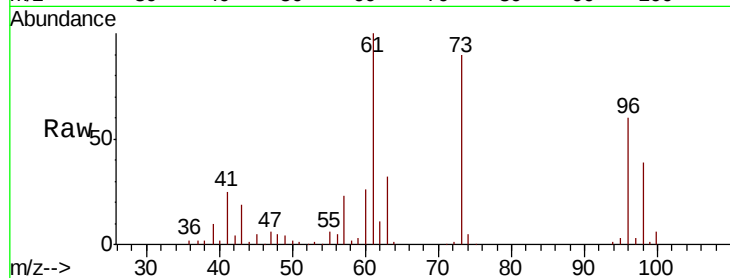
Tgt Ion: 96 Resp: 61101

Ion Ratio Lower Upper

96 100

61 166.8 110.9 205.9

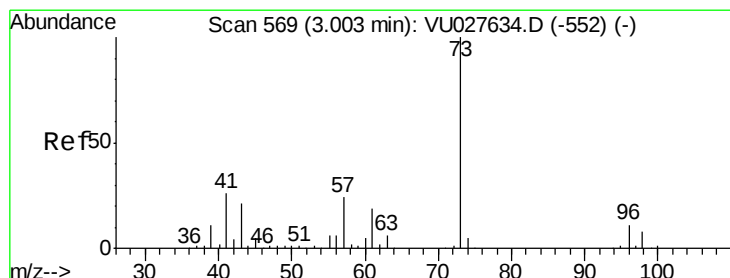
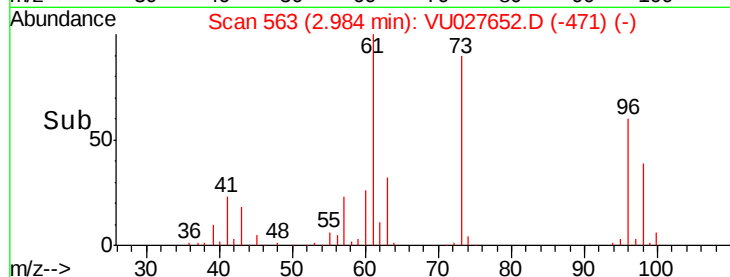
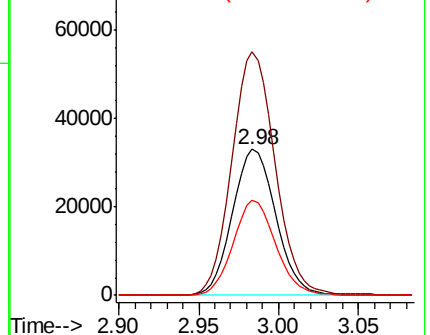
98 65.0 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 48.000 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

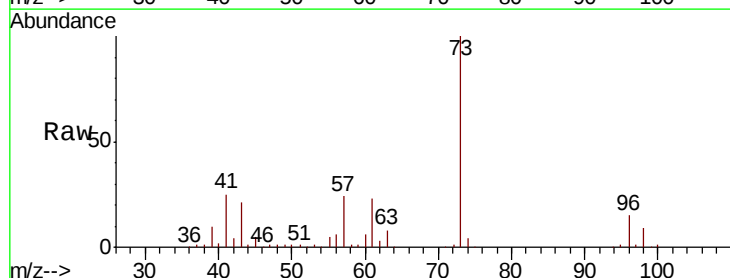
Tgt Ion: 73 Resp: 223946

Ion Ratio Lower Upper

73 100

43 21.0 16.5 24.7

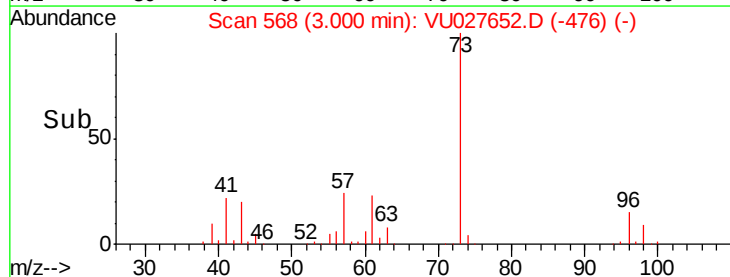
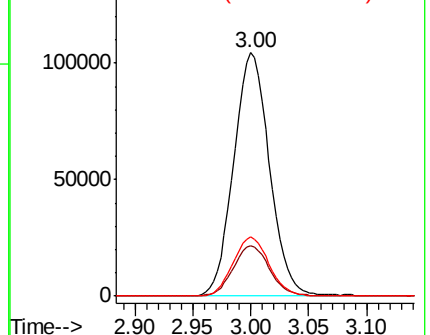
57 24.4 19.4 29.0

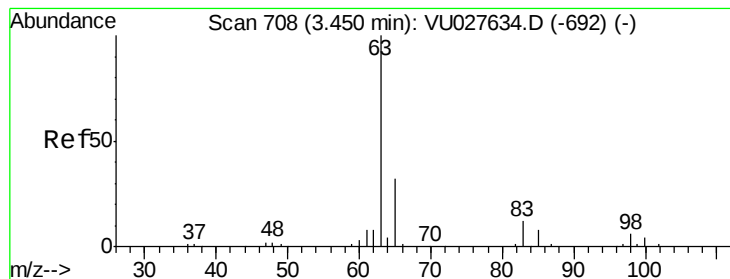


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 48.475 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

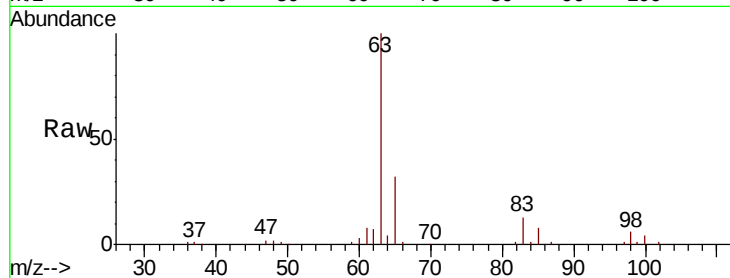
Tgt Ion: 63 Resp: 140453

Ion Ratio Lower Upper

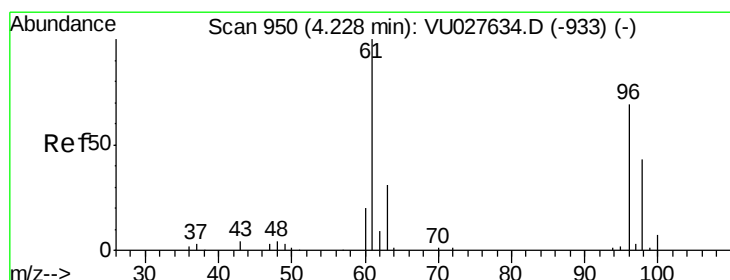
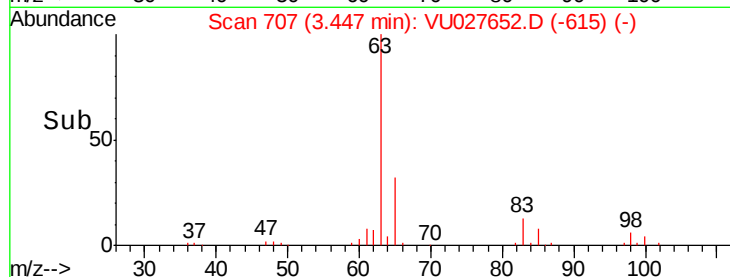
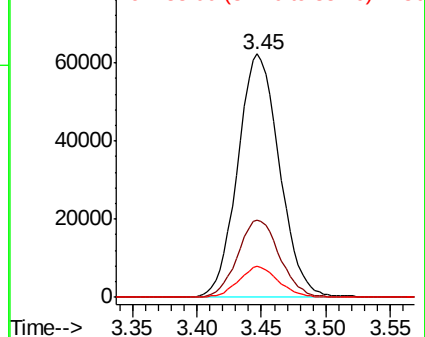
63 100

65 31.7 22.3 41.3

83 12.7 8.4 15.6



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: 46.307 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

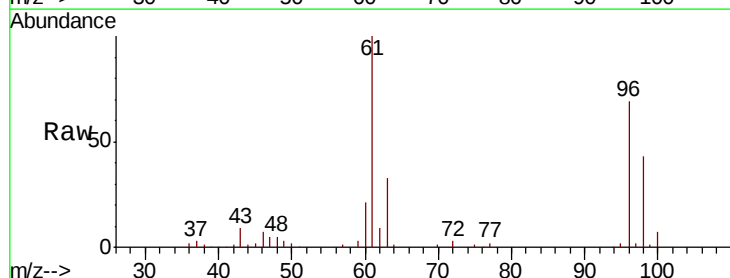
Tgt Ion: 96 Resp: 72082

Ion Ratio Lower Upper

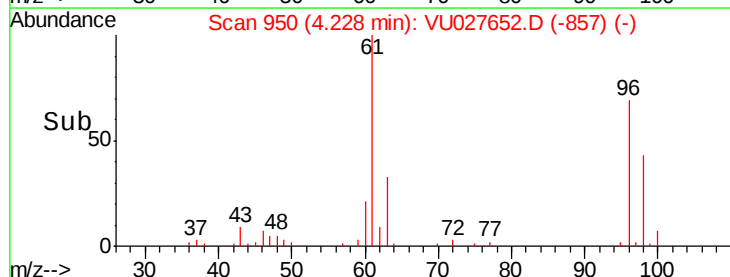
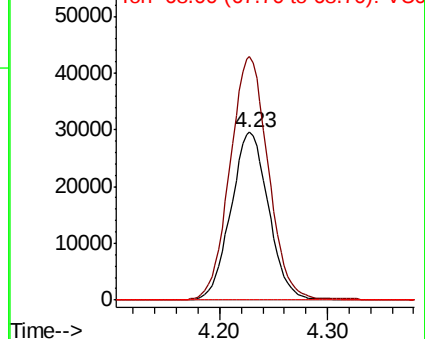
96 100

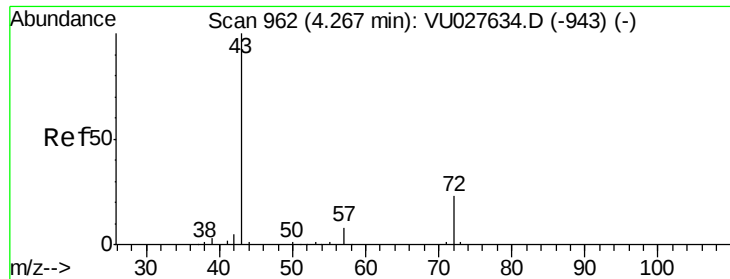
61 145.2 102.0 189.4

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: 109.389 ug/L

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

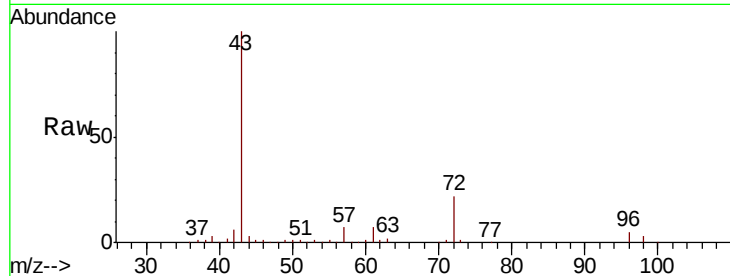
VSTD05048

Tgt Ion: 43 Resp: 160061

Ion Ratio Lower Upper

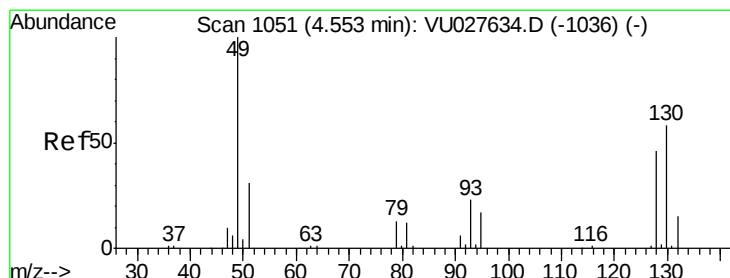
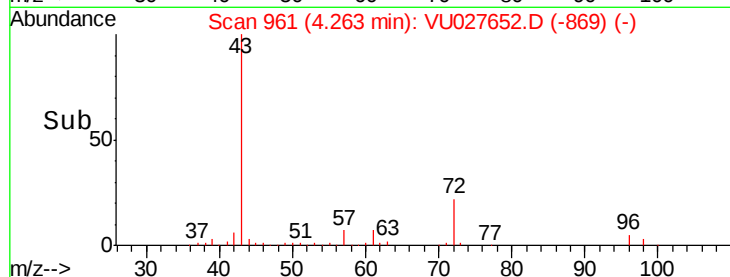
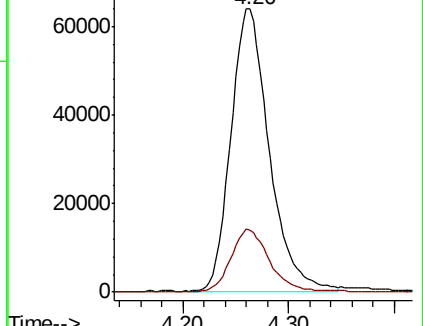
43 100

72 22.7 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU027634.D (-943) (-)

Ion 72.00 (71.70 to 72.70): VU027634.D (-943) (-)



#23

Bromochloromethane

Concen: 47.698 ug/L

RT: 4.55 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Tgt Ion: 128 Resp: 33859

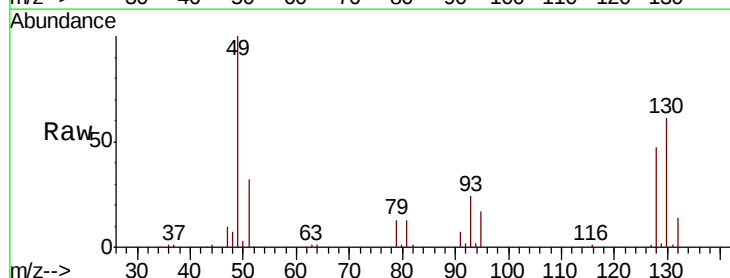
Ion Ratio Lower Upper

128 100

49 212.7 146.9 272.7

130 128.7 89.2 165.6

51 67.7 52.2 78.4

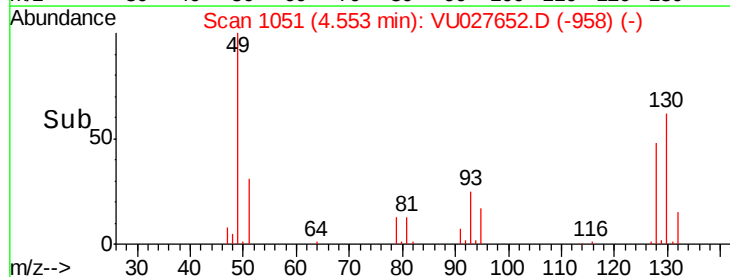
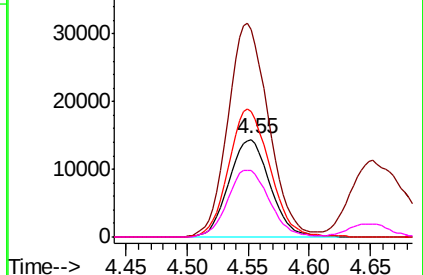


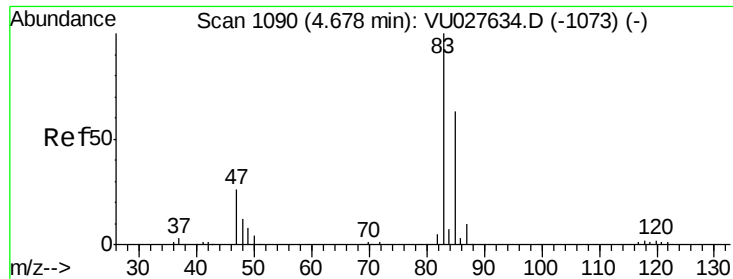
Abundance Ion 128.00 (127.70 to 128.70): VU027634.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU027634.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU027634.D (-1036) (-)

Ion 51.00 (50.70 to 51.70): VU027634.D (-1036) (-)

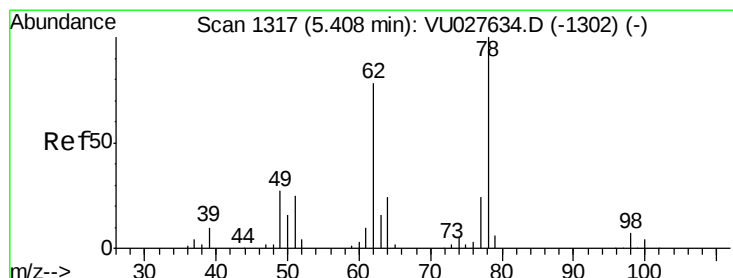
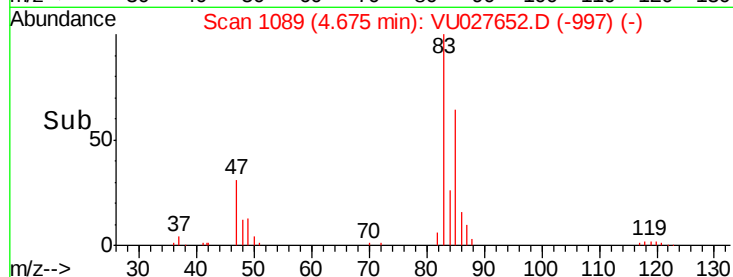
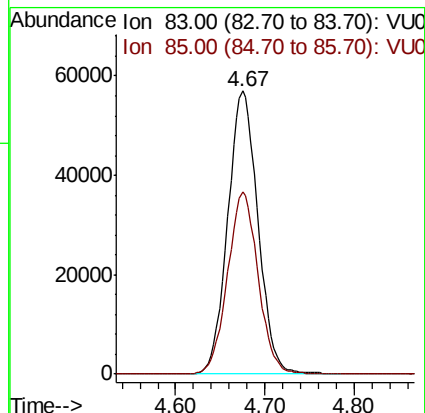
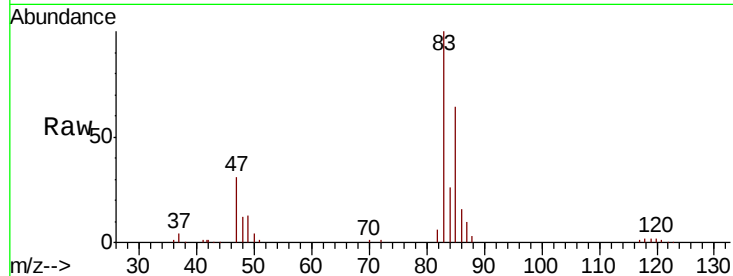




#25
Chloroform
Concen: 47.748 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

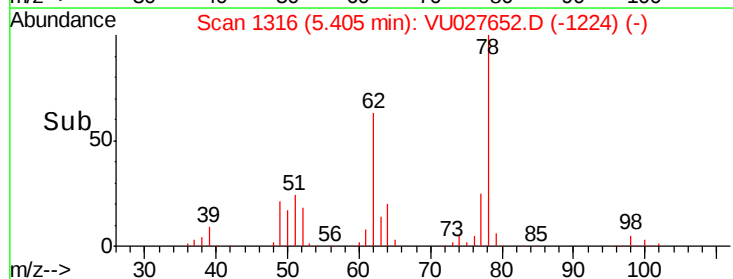
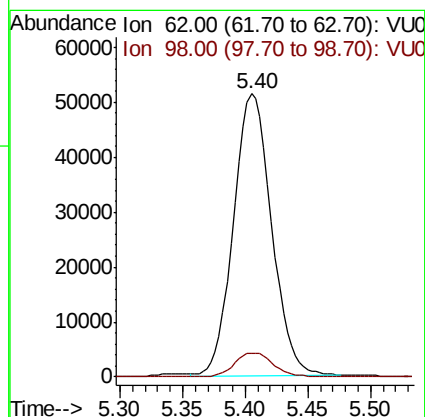
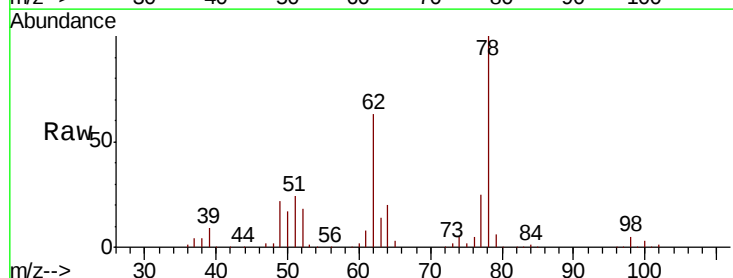
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

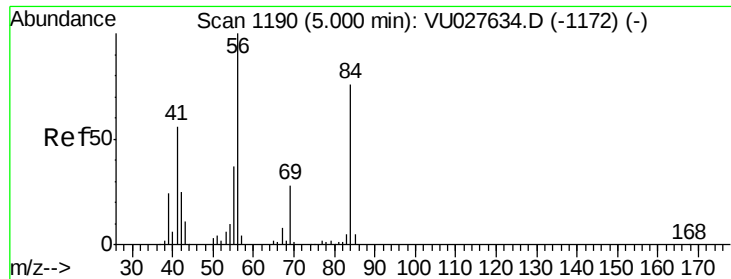
Tgt Ion: 83 Resp: 133646
Ion Ratio Lower Upper
83 100
85 64.3 45.0 83.6



#27
1,2-Dichloroethane
Concen: 48.309 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 62 Resp: 108593
Ion Ratio Lower Upper
62 100
98 8.5 7.1 10.7

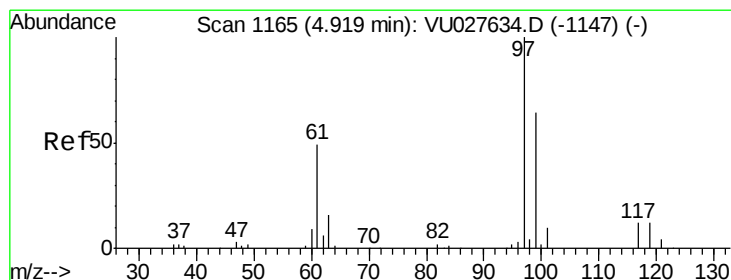
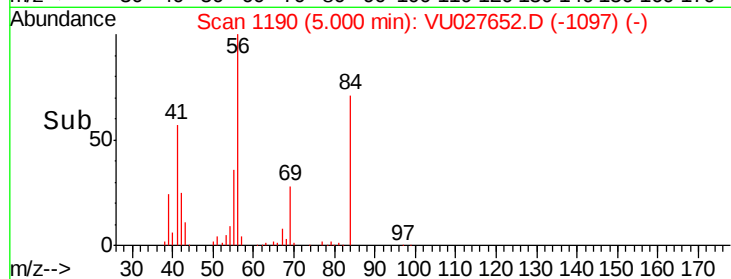
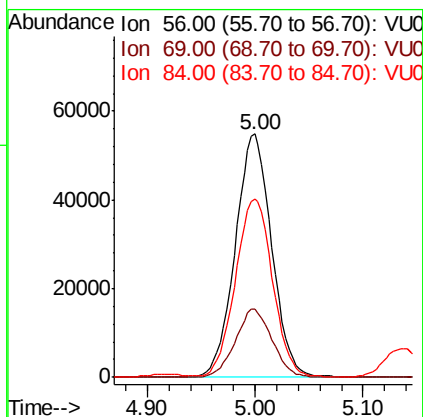
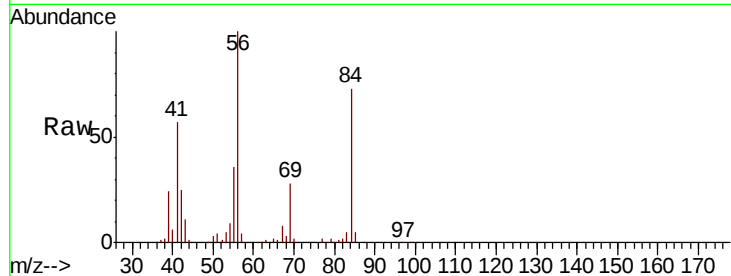




#29
Cyclohexane
Concen: 47.191 ug/L
RT: 5.00 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

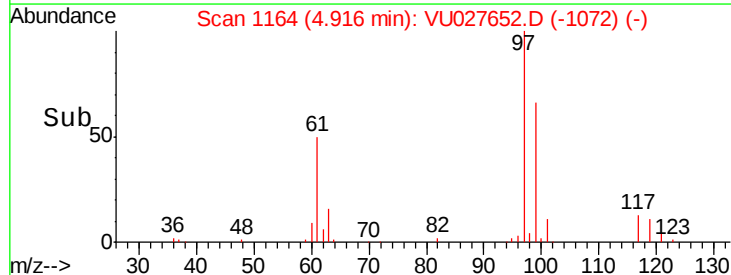
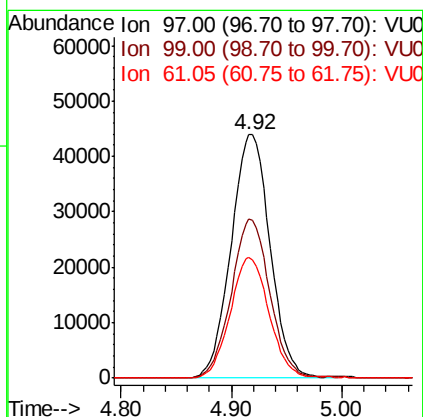
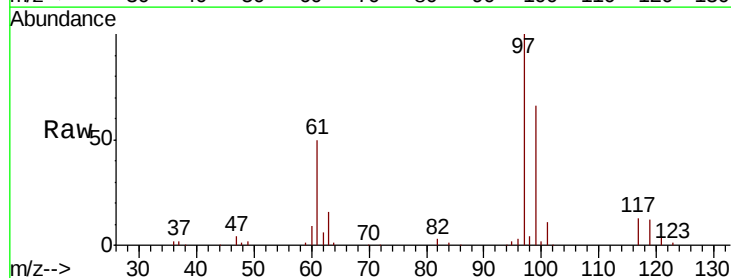
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

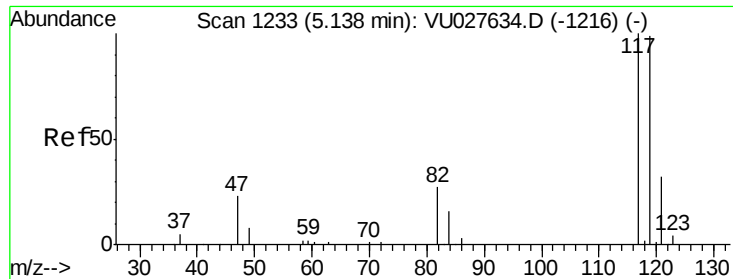
Tgt Ion: 56 Resp: 128907
Ion Ratio Lower Upper
56 100
69 28.1 22.5 33.7
84 74.3 60.9 91.3



#30
1,1,1-Trichloroethane
Concen: 50.042 ug/L
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 97 Resp: 107828
Ion Ratio Lower Upper
97 100
99 64.2 50.9 76.3
61 49.1 38.2 57.4

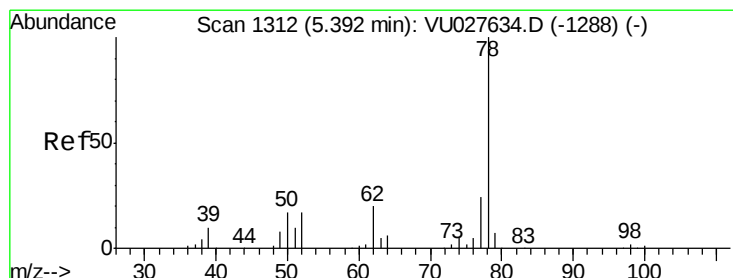
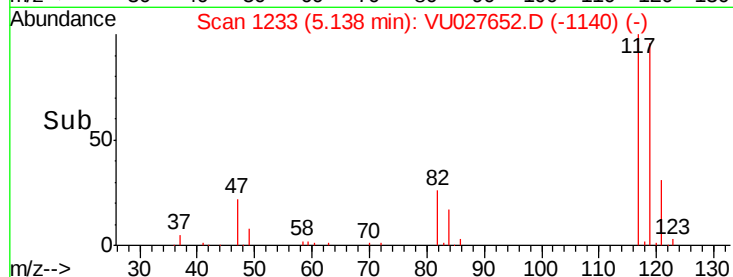
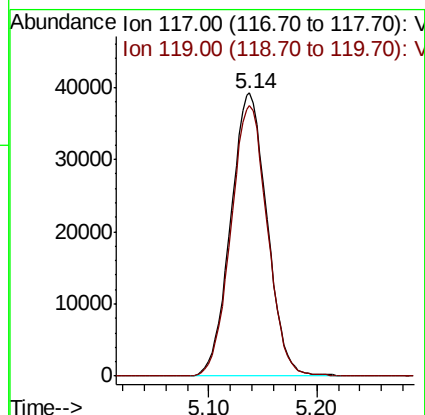
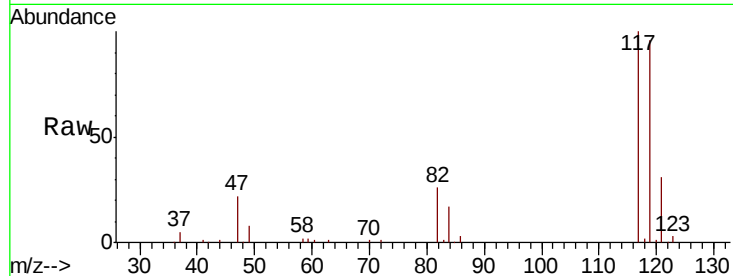




#31
Carbon tetrachloride
Concen: 50.853 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

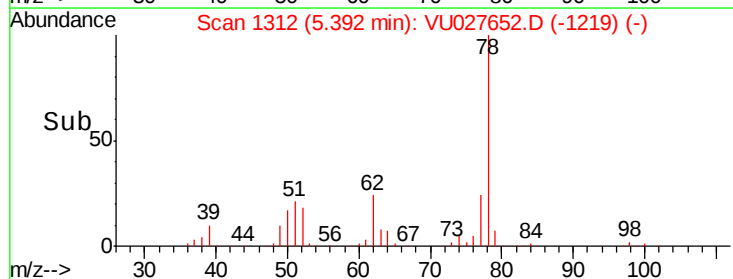
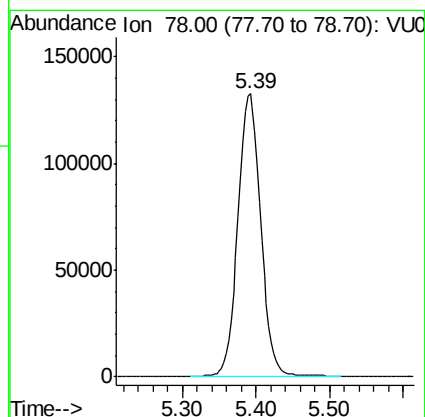
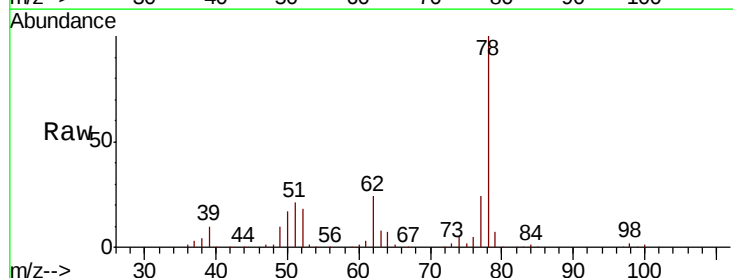
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

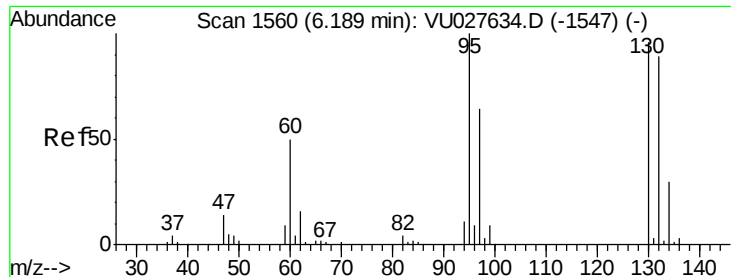
Tgt Ion:117 Resp: 92163
Ion Ratio Lower Upper
117 100
119 95.7 76.8 115.2



#33
Benzene
Concen: 48.873 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 78 Resp: 289229





#34

Trichloroethene

Concen: 47.069 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 66991

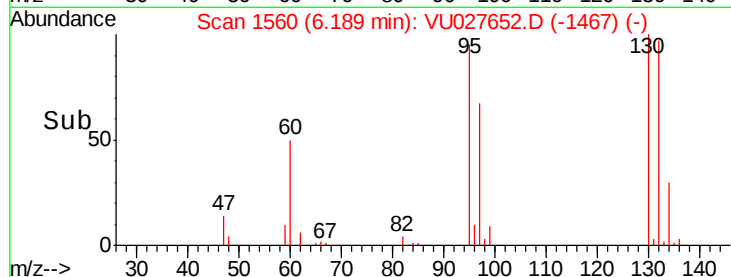
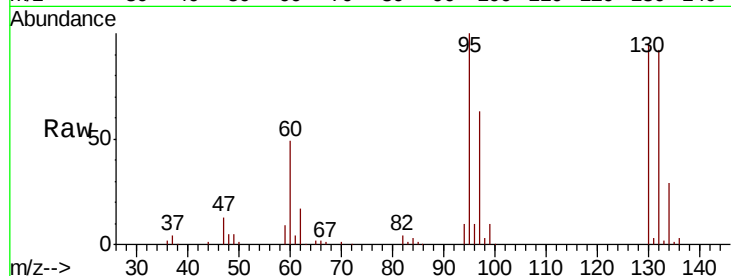
Ion Ratio Lower Upper

95 100

97 63.5 44.9 83.3

132 92.5 64.8 120.4

130 95.1 67.1 124.7

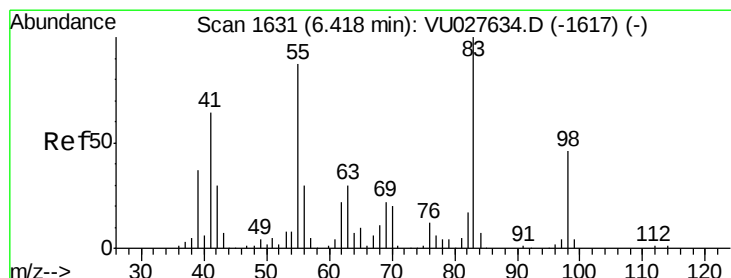
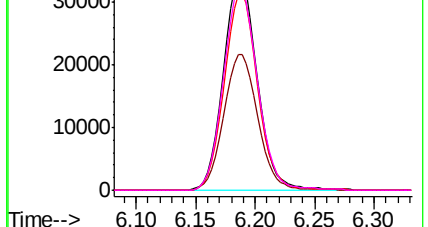


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 46.357 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

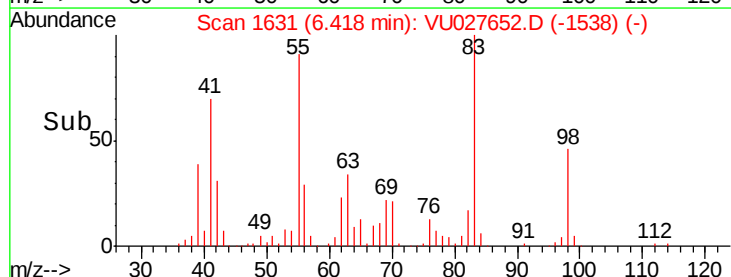
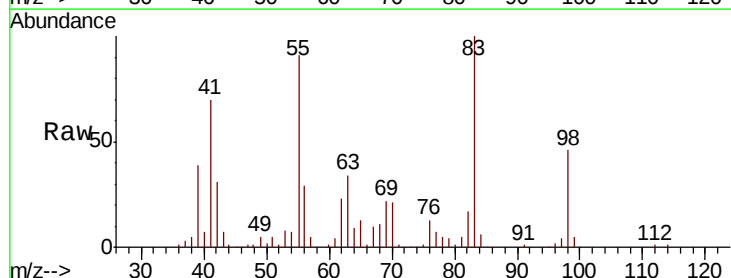
Tgt Ion: 83 Resp: 114634

Ion Ratio Lower Upper

83 100

55 90.9 69.9 104.9

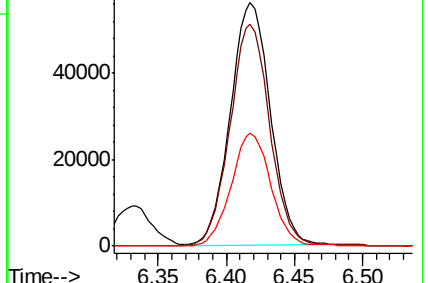
98 46.0 37.1 55.7

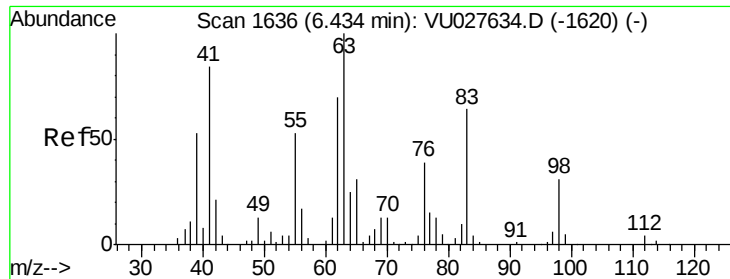


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

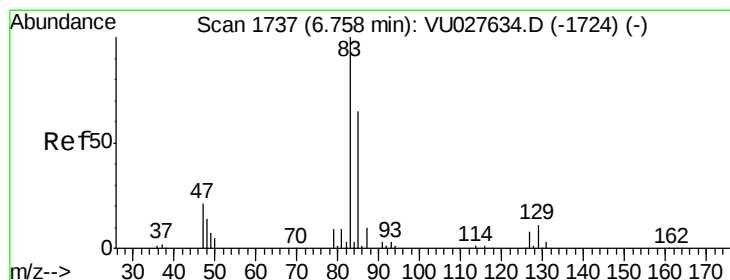
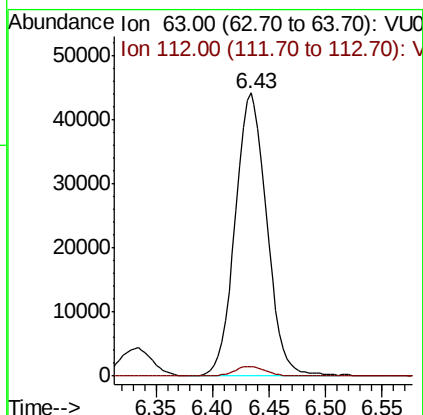
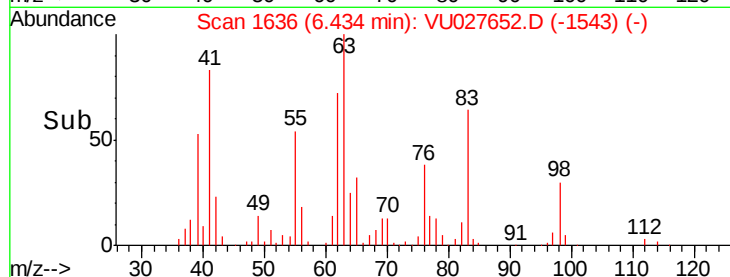
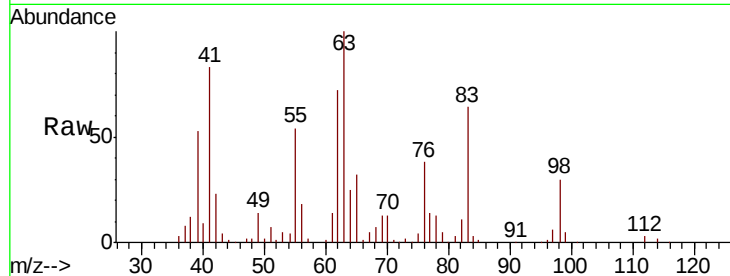




#37
 1,2-Dichloropropane
 Concen: 50.281 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

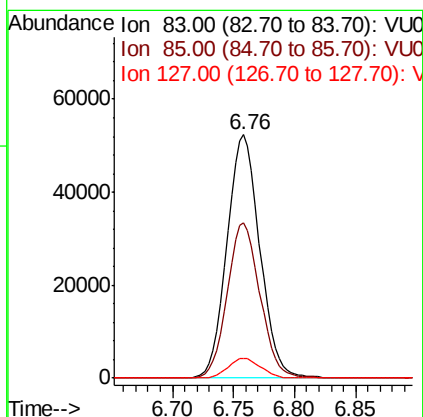
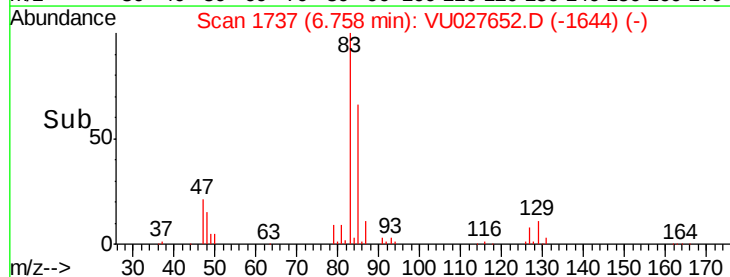
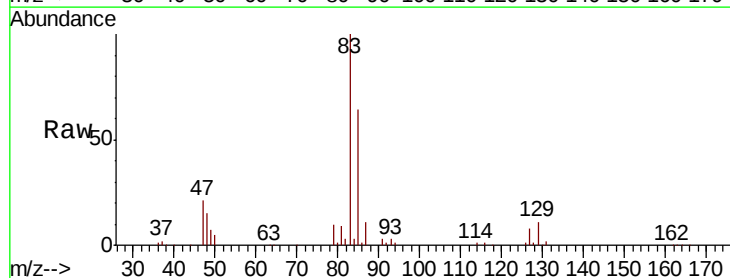
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

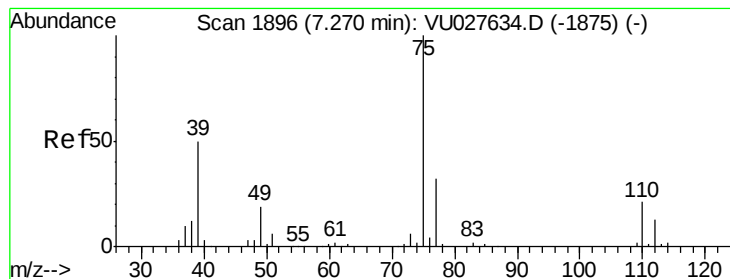
Tgt Ion: 63 Resp: 86211
 Ion Ratio Lower Upper
 63 100
 112 3.5 2.9 4.3



#38
 Bromodichloromethane
 Concen: 50.566 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

Tgt Ion: 83 Resp: 98521
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.1 83.7
 127 8.2 6.3 9.5



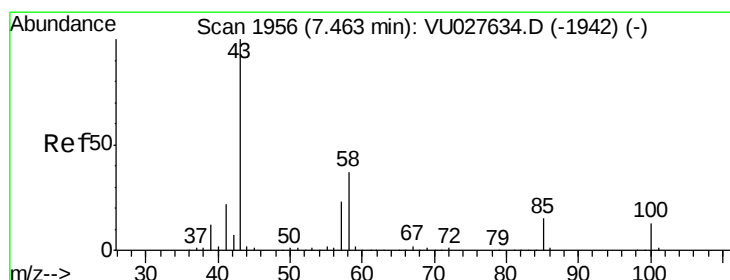
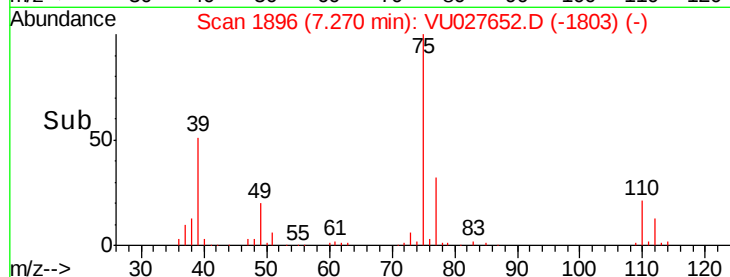
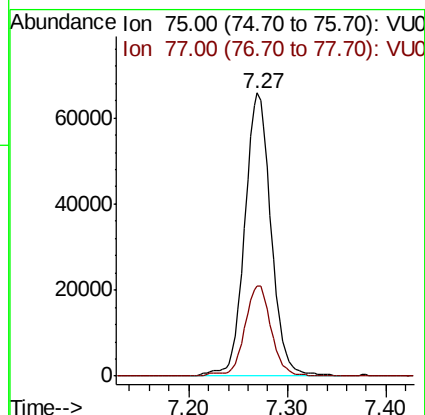
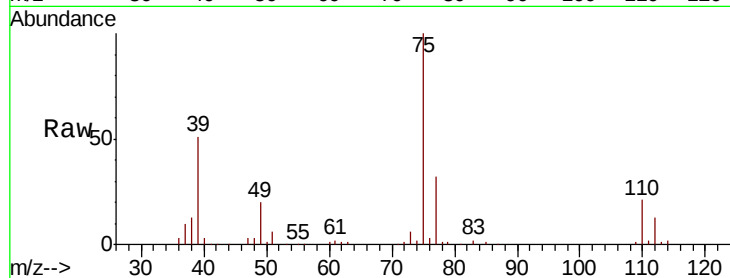


#39

cis-1,3-Dichloropropene
Concen: 48.052 ug/L
RT: 7.27 min Scan# 1896
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

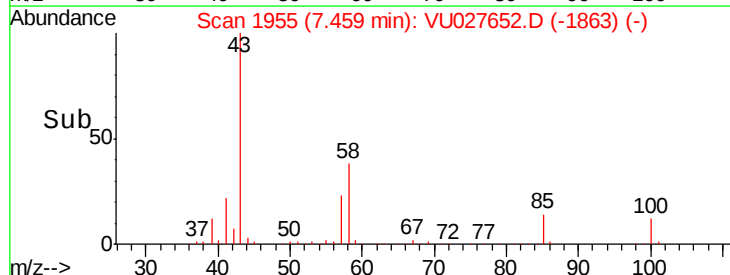
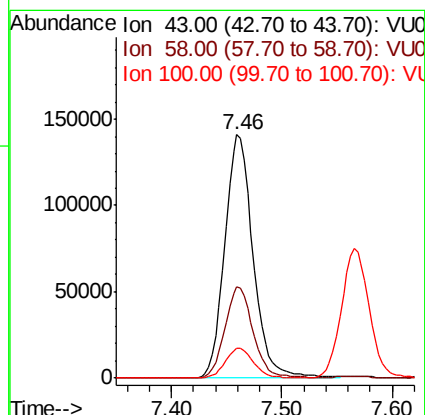
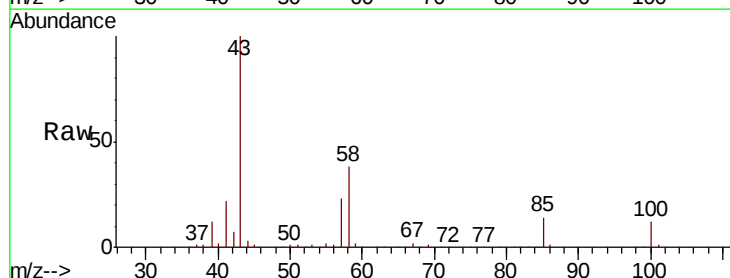
Tgt Ion: 75 Resp: 121061
Ion Ratio Lower Upper
75 100
77 32.0 22.1 41.1

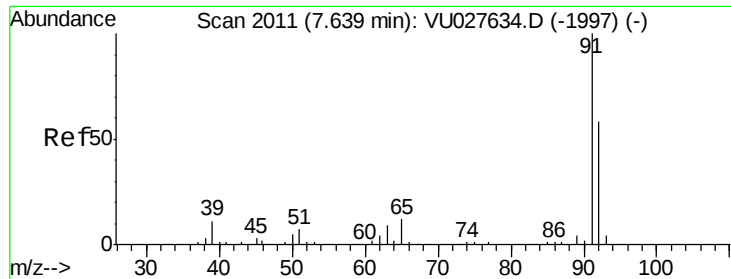


#40

4-Methyl-2-pentanone
Concen: 100.309 ug/L
RT: 7.46 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 43 Resp: 251854
Ion Ratio Lower Upper
43 100
58 37.3 30.7 46.1
100 12.3 10.2 15.4





#42

Toluene

Concen: 48.231 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

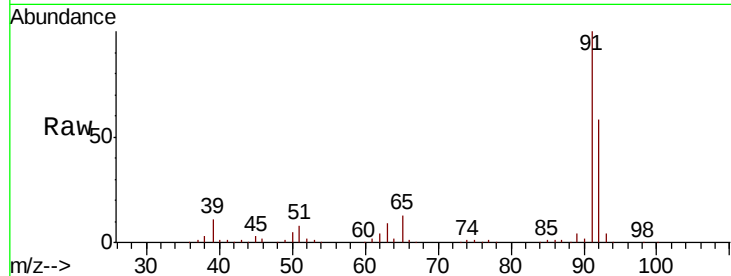
VSTD05048

Tgt Ion: 91 Resp: 286395

Ion Ratio Lower Upper

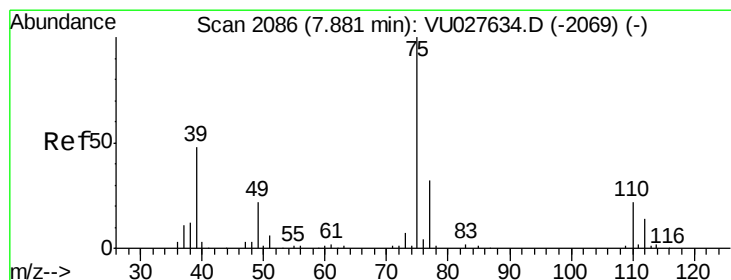
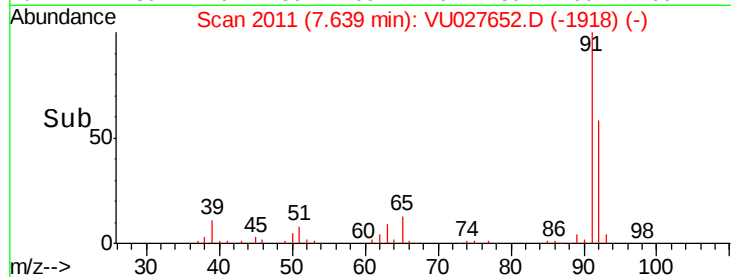
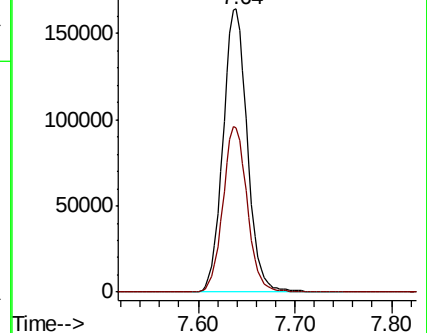
91 100

92 58.3 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 48.549 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027652.D

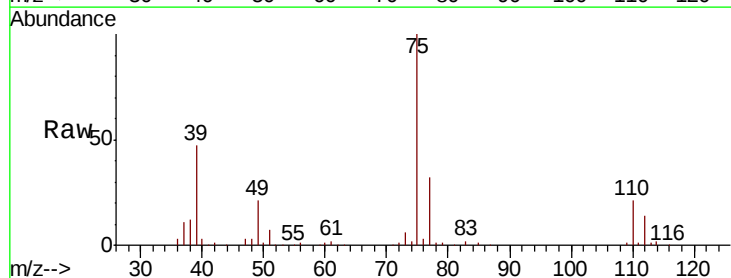
Acq: 15 Oct 2018 08:42

Tgt Ion: 75 Resp: 113534

Ion Ratio Lower Upper

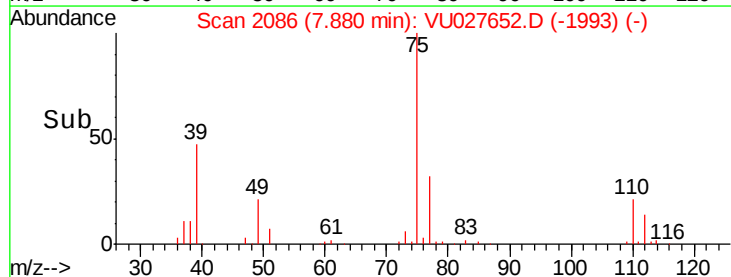
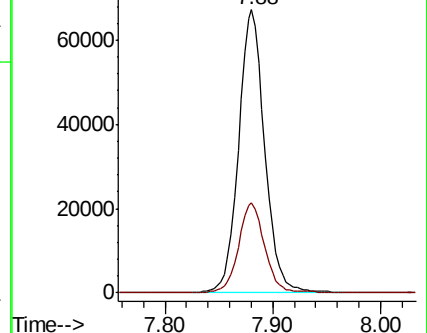
75 100

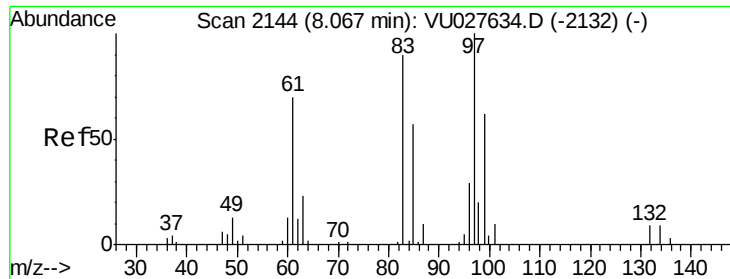
77 31.7 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

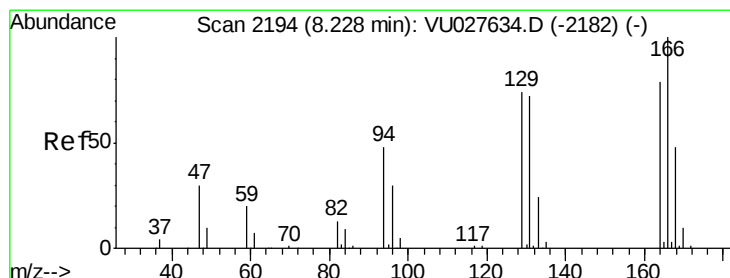
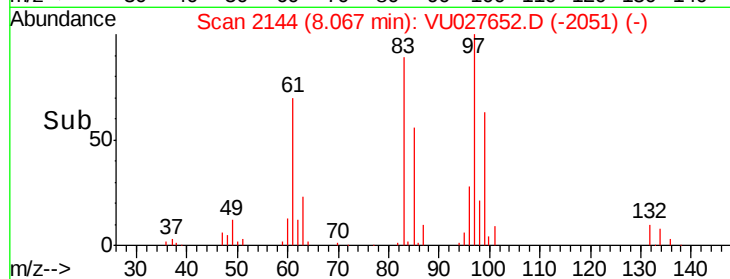
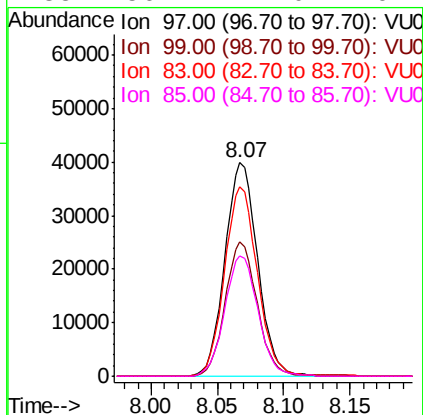
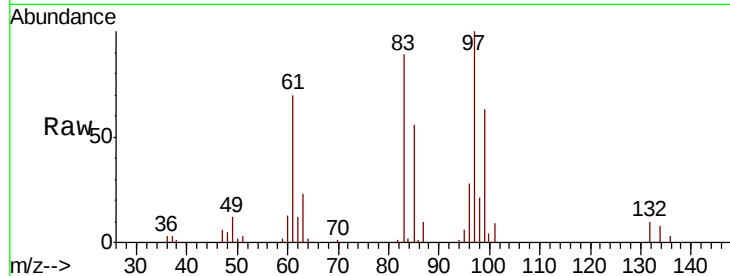




#45
 1,1,2-Trichloroethane
 Concen: 49.880 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

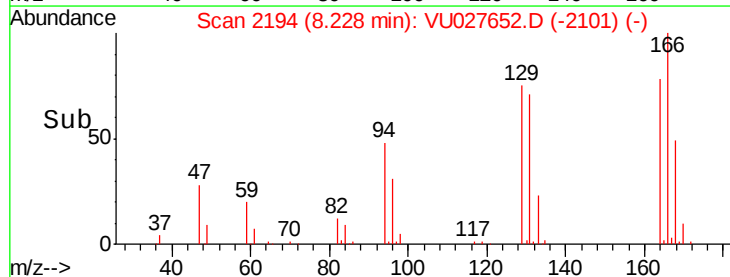
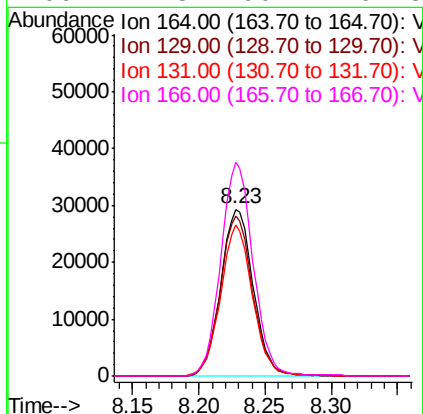
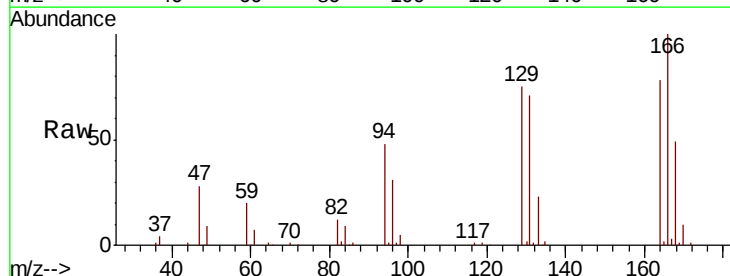
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

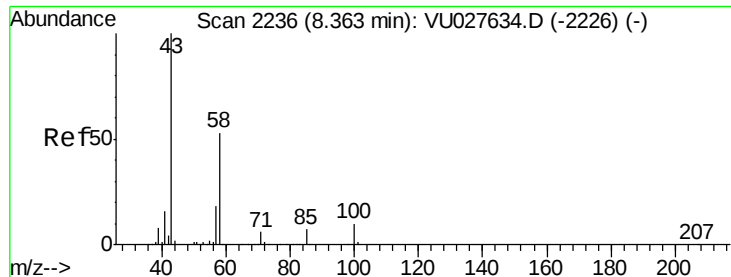
Tgt Ion:	97	Resp:	68653
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.2	80.2
83	88.9	64.3	119.5
85	56.4	41.0	76.2



#46
 Tetrachloroethene
 Concen: 47.221 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

Tgt Ion:	164	Resp:	49948
Ion	Ratio	Lower	Upper
164	100		
129	95.8	67.0	124.4
131	90.4	65.1	120.9
166	127.8	90.4	167.8

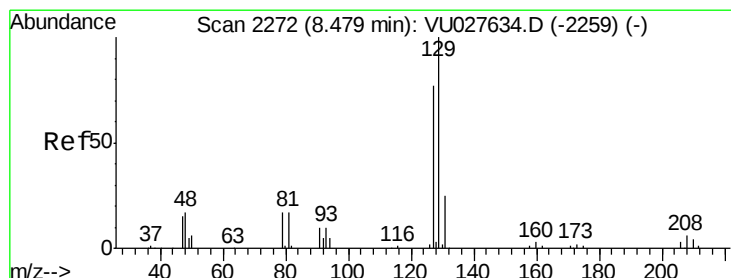
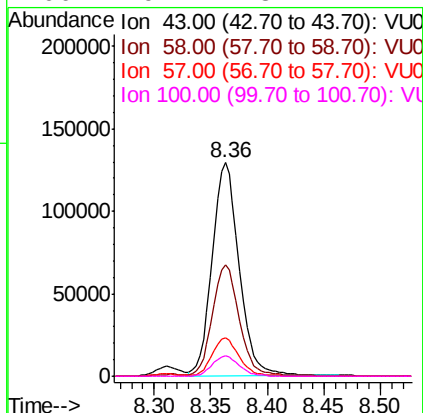
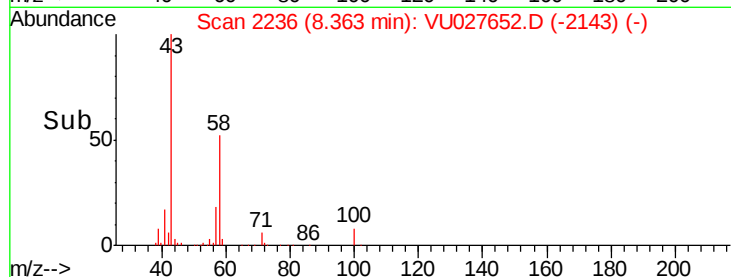
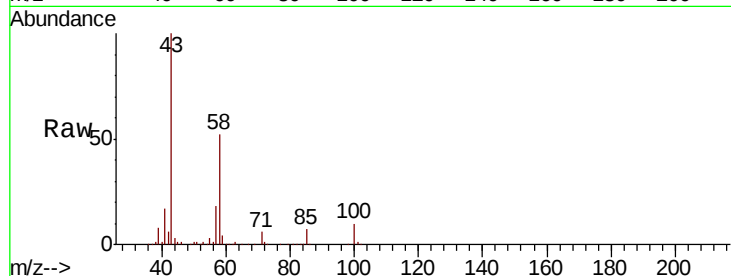




#48
2-Hexanone
Concen: 108.008 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

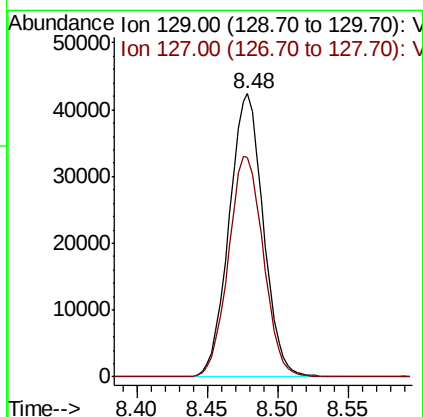
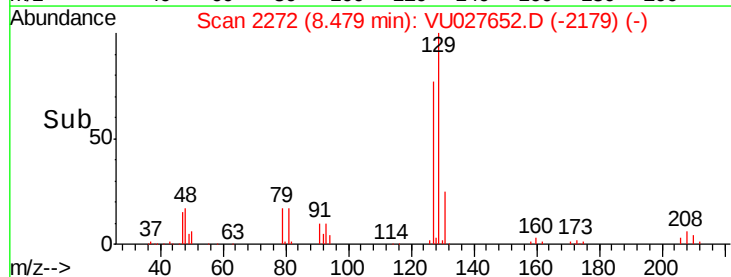
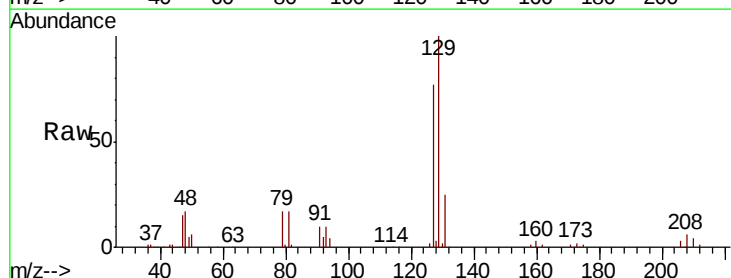
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

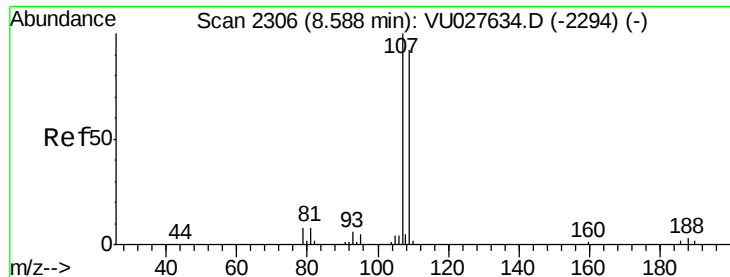
Tgt Ion: 43 Resp: 214133
Ion Ratio Lower Upper
43 100
58 51.6 42.7 64.1
57 17.7 14.5 21.7
100 9.7 8.2 12.2



#49
Dibromochloromethane
Concen: 50.124 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion: 129 Resp: 71936
Ion Ratio Lower Upper
129 100
127 77.4 52.7 97.9

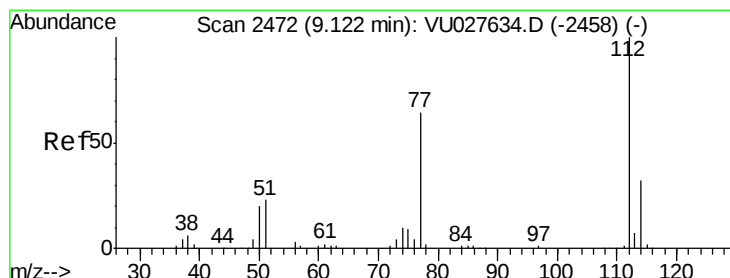
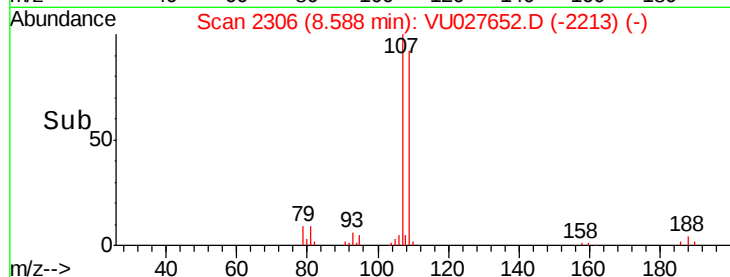
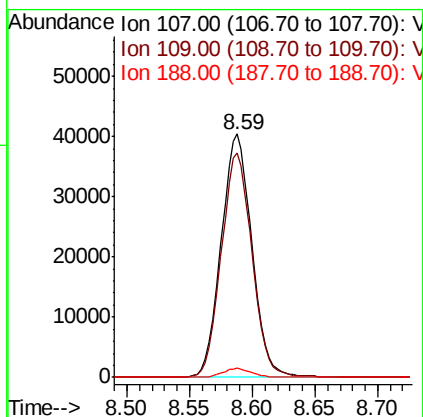
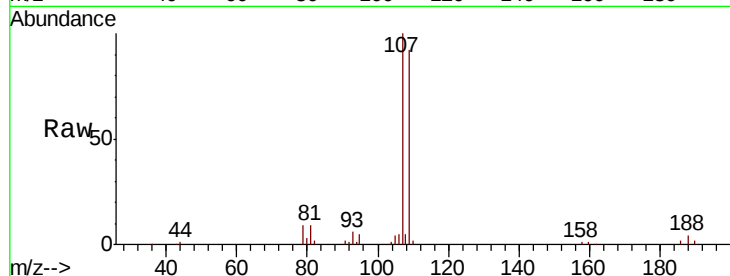




#50
1,2-Dibromoethane
Concen: 46.941 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

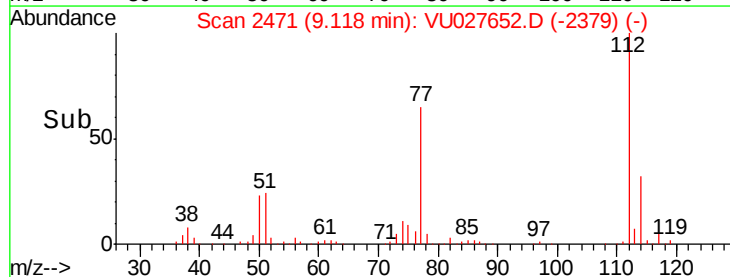
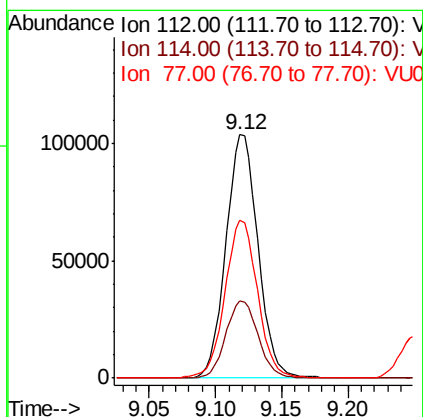
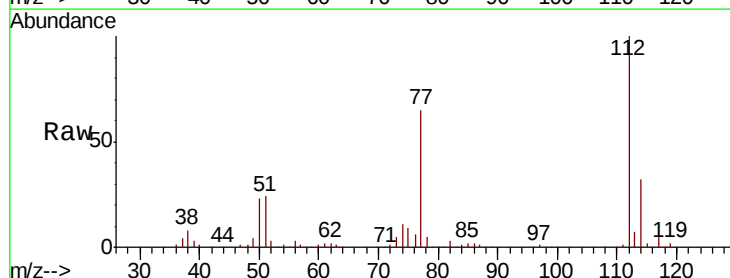
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

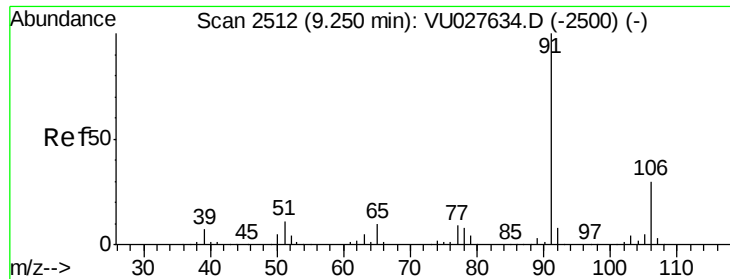
Tgt Ion:107 Resp: 68544
Ion Ratio Lower Upper
107 100
109 92.4 65.5 121.6
188 3.6 3.0 4.6



#51
Chlorobenzene
Concen: 46.431 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU027652.D
Acq: 15 Oct 2018 08:42

Tgt Ion:112 Resp: 174305
Ion Ratio Lower Upper
112 100
114 31.7 22.3 41.5
77 65.1 51.7 77.5





#52

Ethylbenzene

Concen: 47.385 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

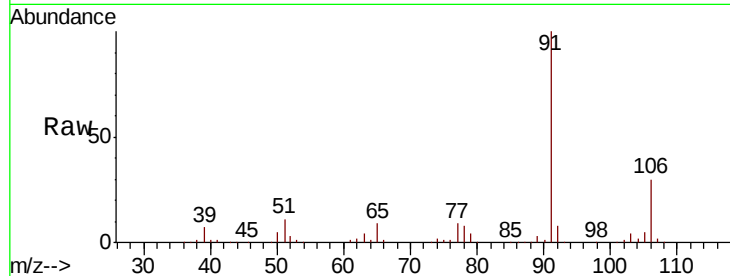
VSTD05048

Tgt Ion: 91 Resp: 312415

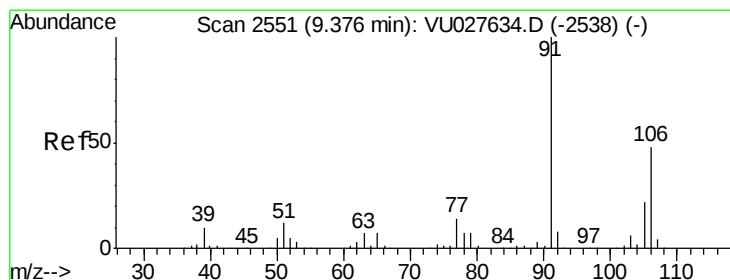
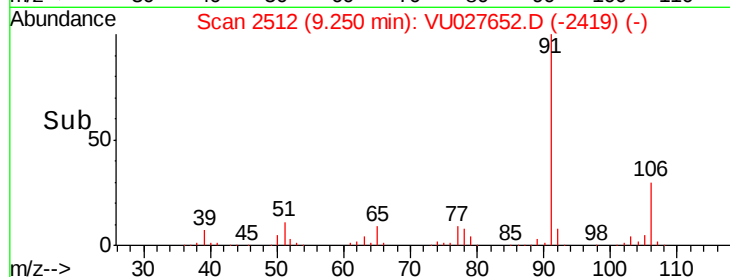
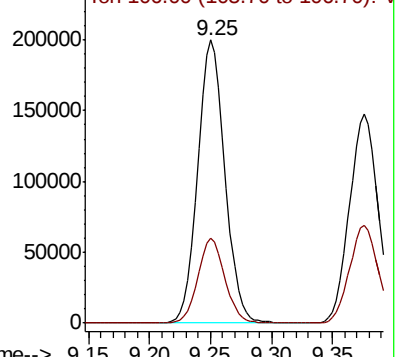
Ion Ratio Lower Upper

91 100

106 30.1 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU027634.D (-2500) (-)



#53

m,p-Xylene

Concen: 46.972 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027652.D

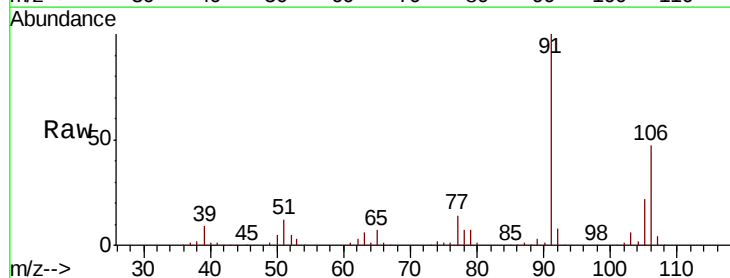
Acq: 15 Oct 2018 08:42

Tgt Ion: 106 Resp: 113351

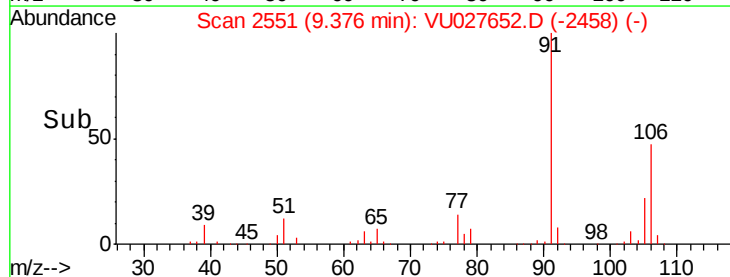
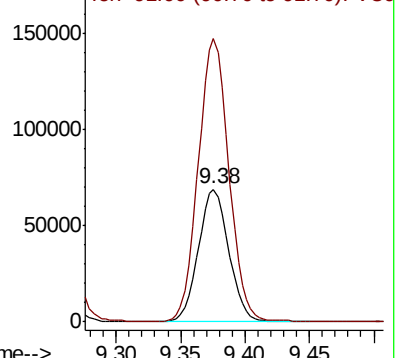
Ion Ratio Lower Upper

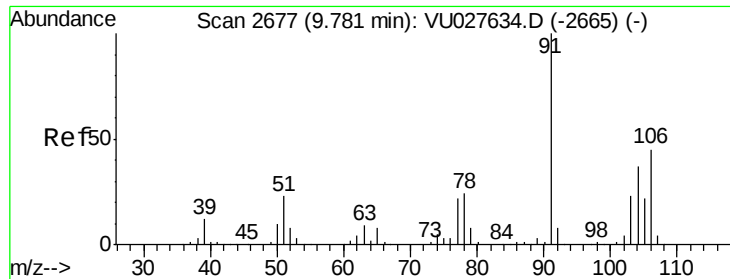
106 100

91 213.1 145.0 269.4



Abundance Ion 106.00 (105.70 to 106.70): VU027634.D (-2538) (-)





#54

o-xylene

Concen: 48.312 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

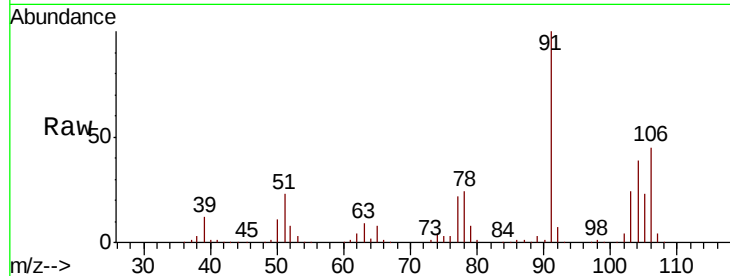
VSTD05048

Tgt Ion:106 Resp: 112316

Ion Ratio Lower Upper

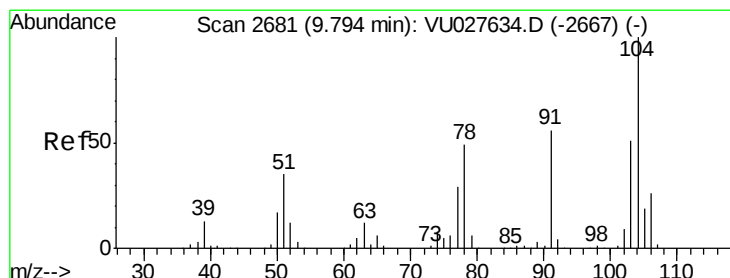
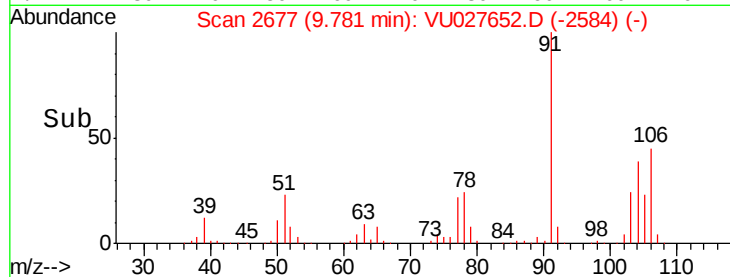
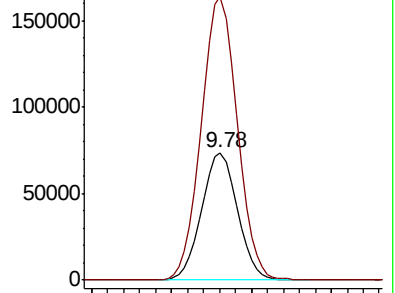
106 100

91 222.5 154.8 287.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.684 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU027652.D

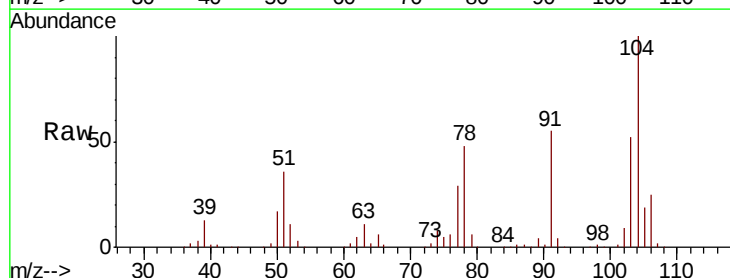
Acq: 15 Oct 2018 08:42

Tgt Ion:104 Resp: 193812

Ion Ratio Lower Upper

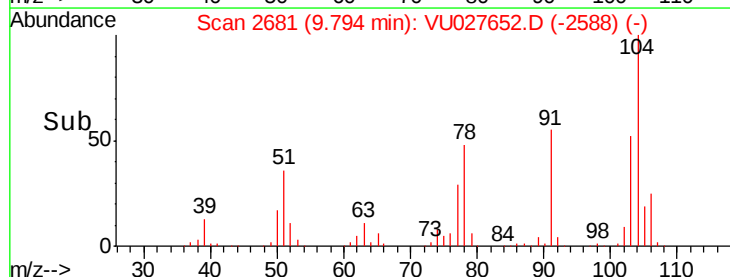
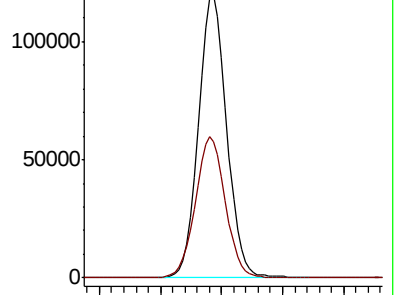
104 100

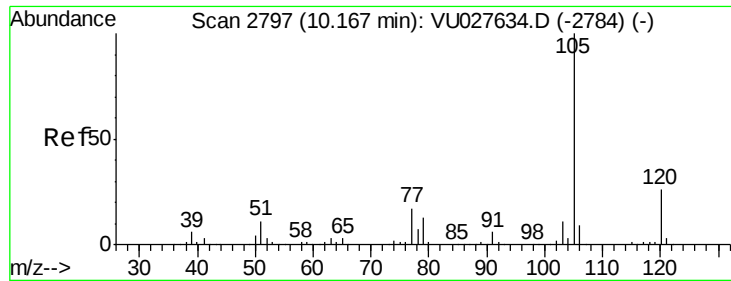
78 48.3 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.559 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

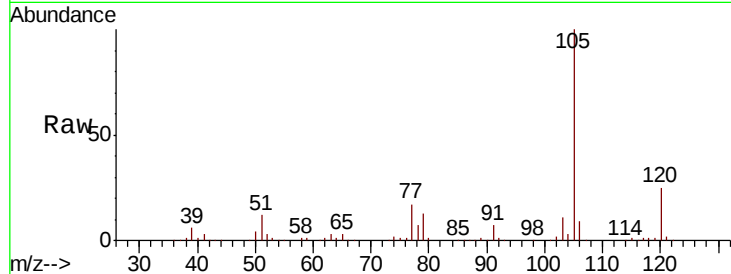
Tgt Ion: 105 Resp: 295843

Ion Ratio Lower Upper

105 100

120 25.0 20.6 30.8

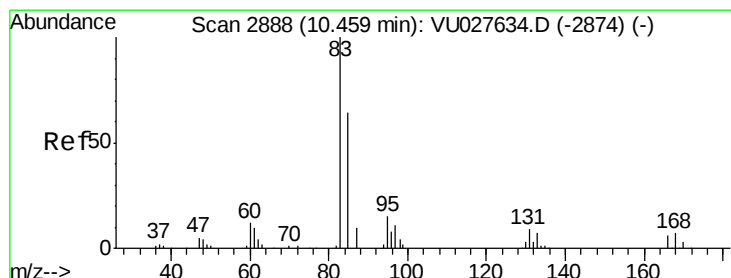
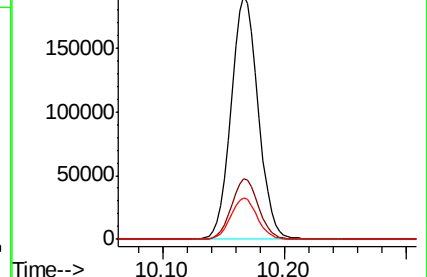
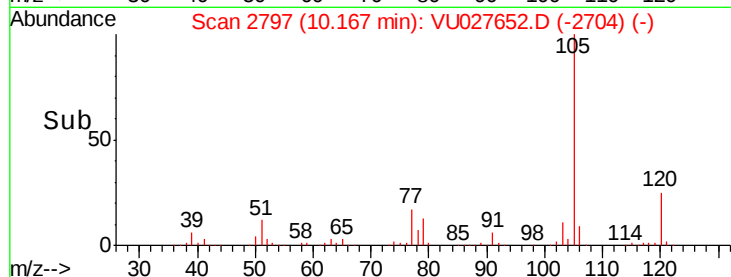
77 16.8 13.0 19.4



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: 49.267 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

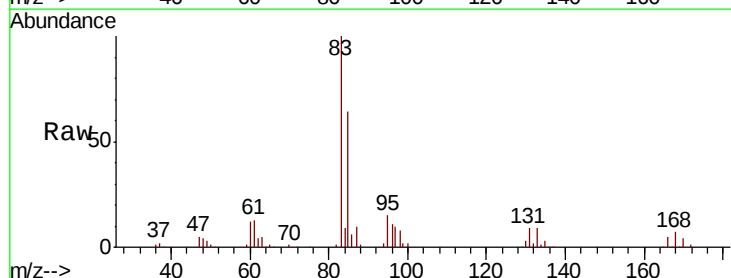
Tgt Ion: 83 Resp: 118809

Ion Ratio Lower Upper

83 100

85 63.9 45.2 84.0

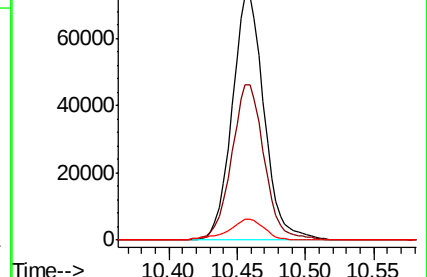
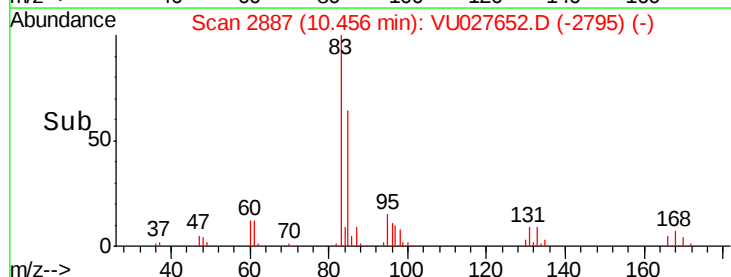
131 8.7 6.7 10.1

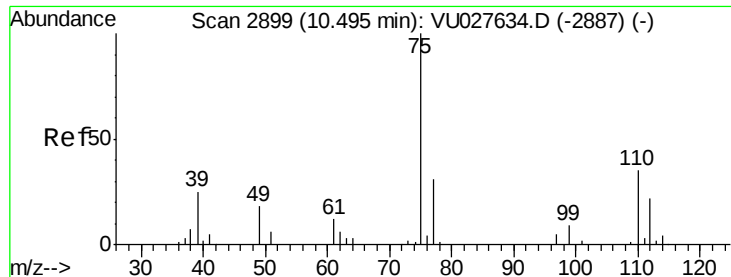


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.026 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

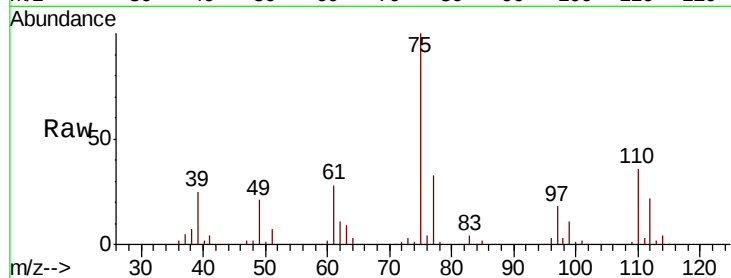
VSTD05048

Tgt Ion: 75 Resp: 97108

Ion Ratio Lower Upper

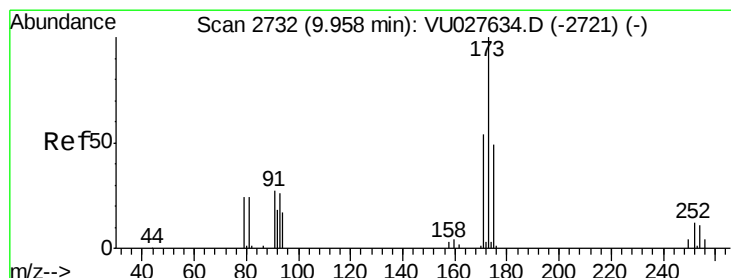
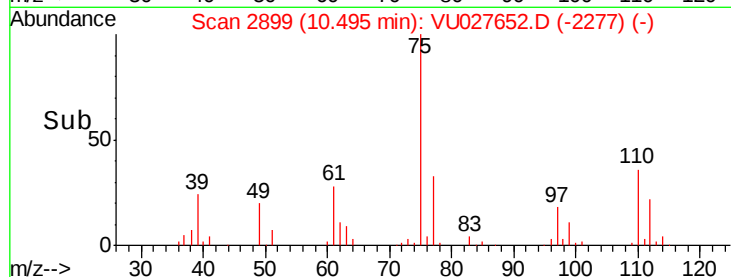
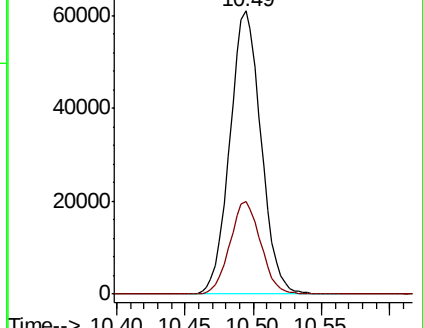
75 100

77 32.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU027634.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU027634.D (-2887) (-)



#61

Bromoform

Concen: 53.514 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

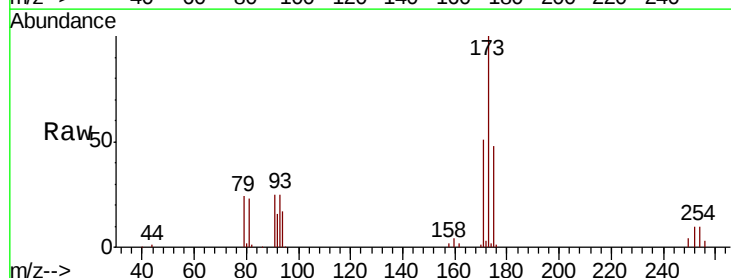
Tgt Ion: 173 Resp: 51318

Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.4

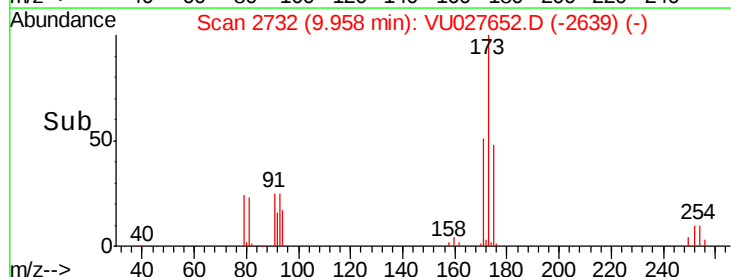
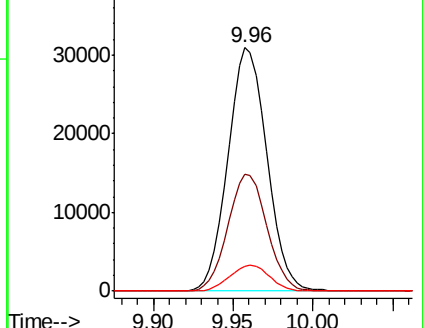
254 10.7 8.3 12.5

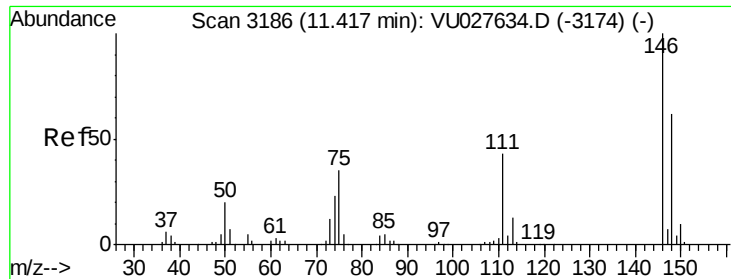


Abundance Ion 173.00 (172.70 to 173.70): VU027634.D (-2721) (-)

Ion 175.00 (174.70 to 175.70): VU027634.D (-2721) (-)

Ion 254.00 (253.70 to 254.70): VU027634.D (-2721) (-)

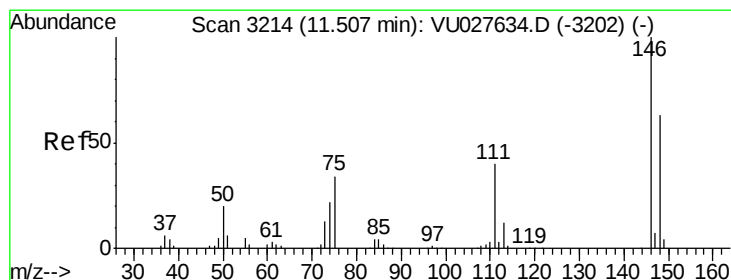
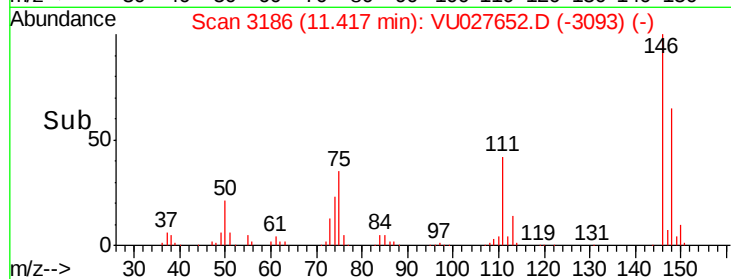
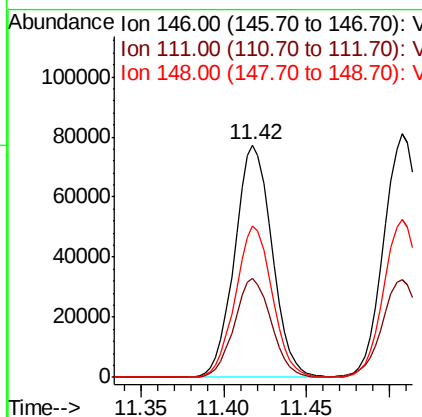
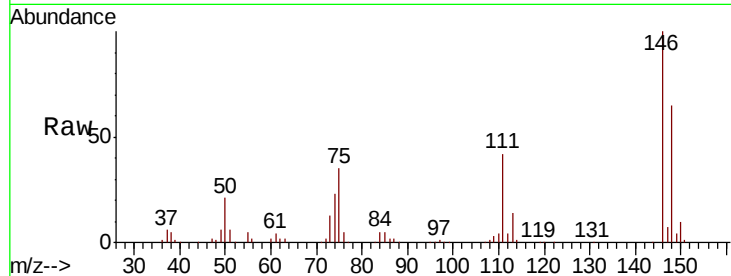




#62
 1,3-Dichlorobenzene
 Concen: 46.226 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

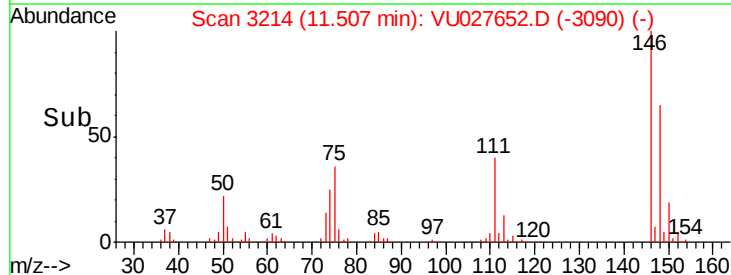
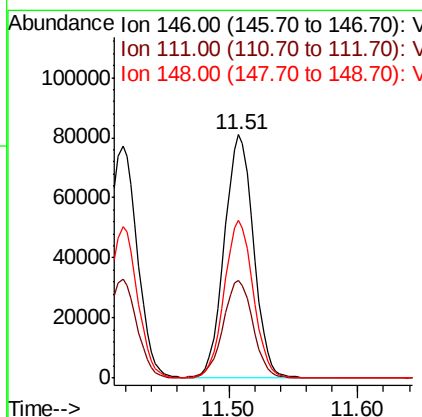
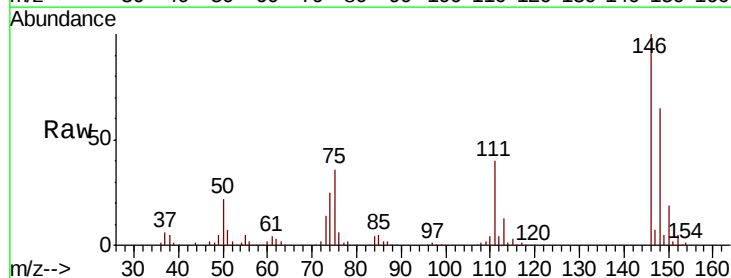
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

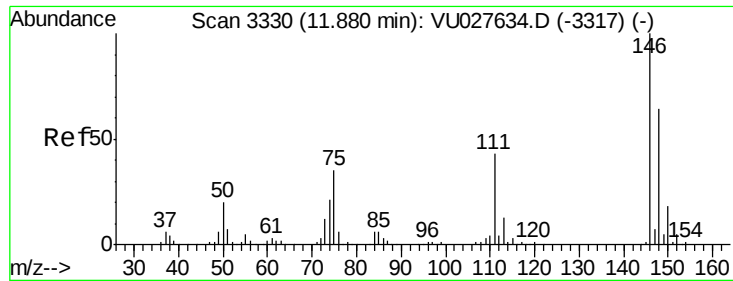
Tgt Ion:146 Resp: 121421
 Ion Ratio Lower Upper
 146 100
 111 42.5 29.0 53.8
 148 64.8 45.4 84.2



#63
 1,4-Dichlorobenzene
 Concen: 46.229 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

Tgt Ion:146 Resp: 126662
 Ion Ratio Lower Upper
 146 100
 111 40.0 28.1 52.1
 148 64.6 44.4 82.5

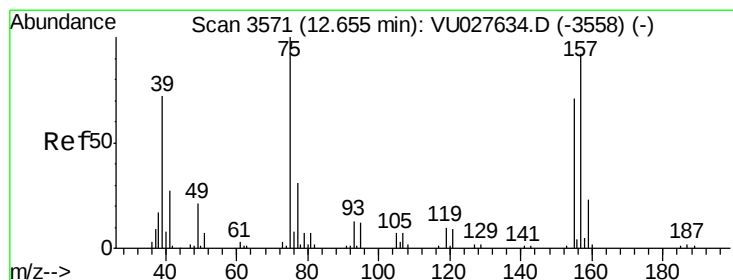
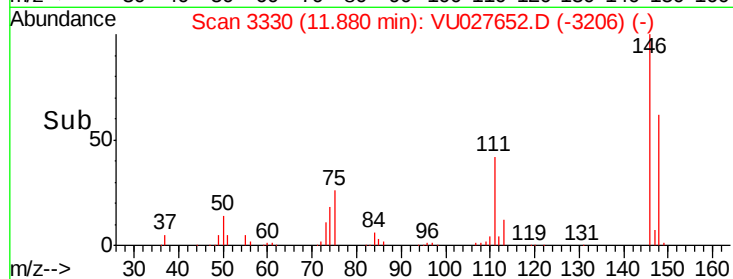
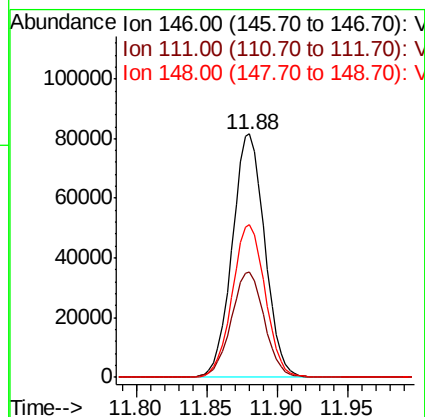
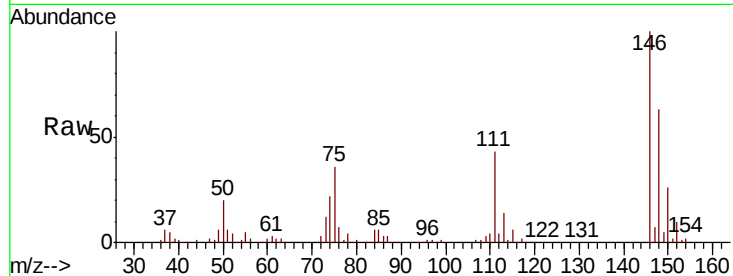




#65
 1,2-Dichlorobenzene
 Concen: 49.275 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

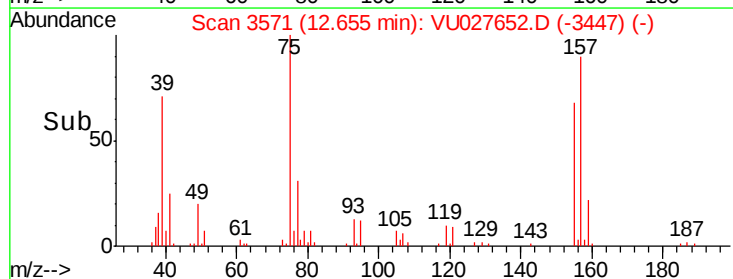
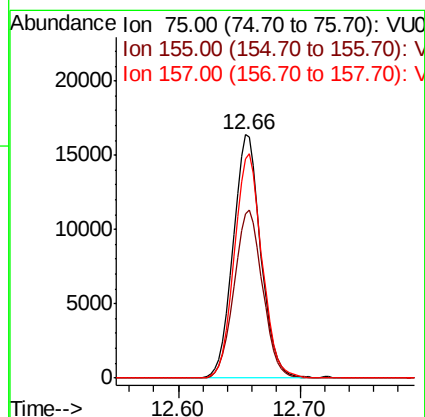
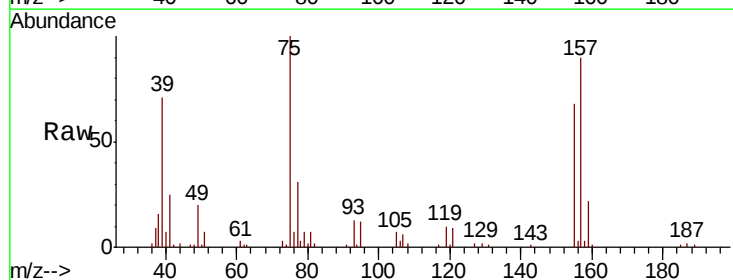
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

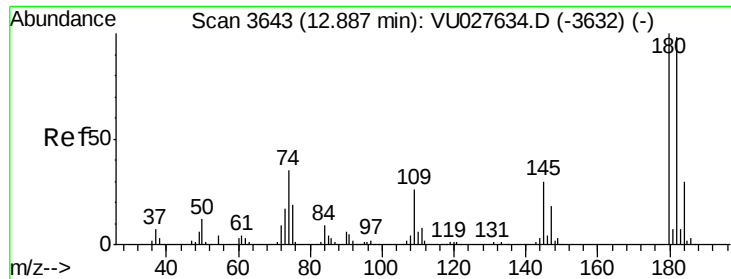
Tgt Ion: 146 Resp: 131758
 Ion Ratio Lower Upper
 146 100
 111 43.0 34.9 52.3
 148 62.5 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.160 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

Tgt Ion: 75 Resp: 25855
 Ion Ratio Lower Upper
 75 100
 155 67.7 61.0 91.6
 157 90.2 77.8 116.8

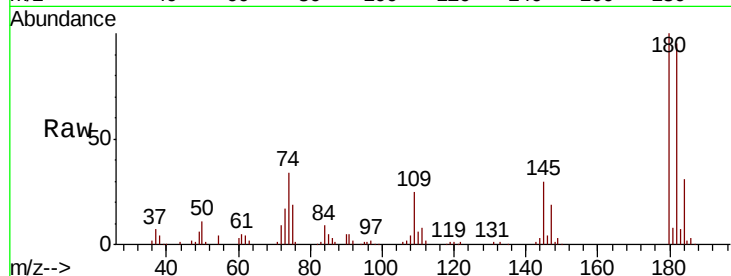




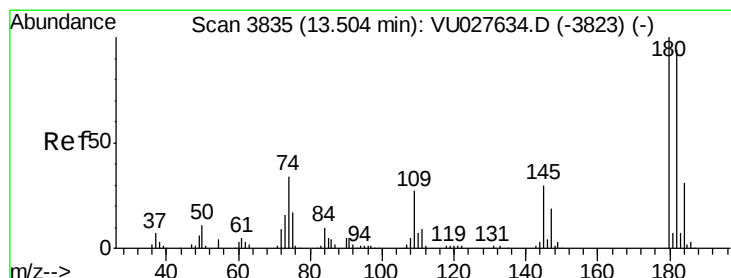
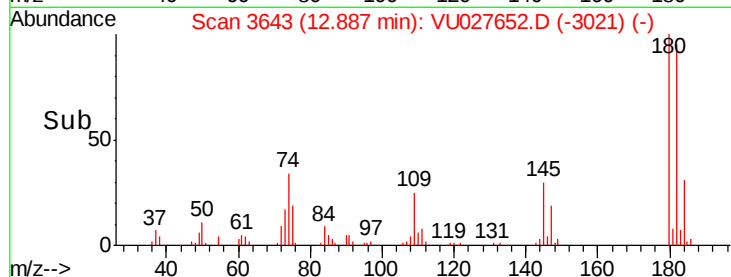
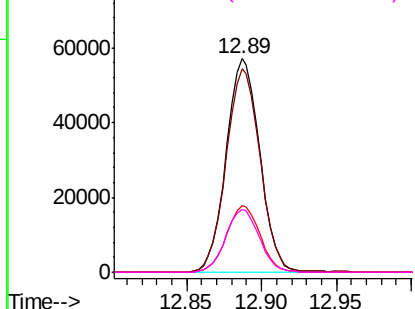
#67
 1,3,5-Trichlorobenzene
 Concen: 44.017 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:180 Resp: 89328
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.7 115.1
 184 31.0 24.5 36.7
 145 29.6 23.8 35.8

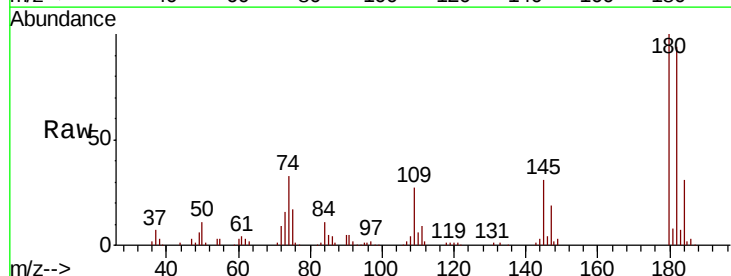


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

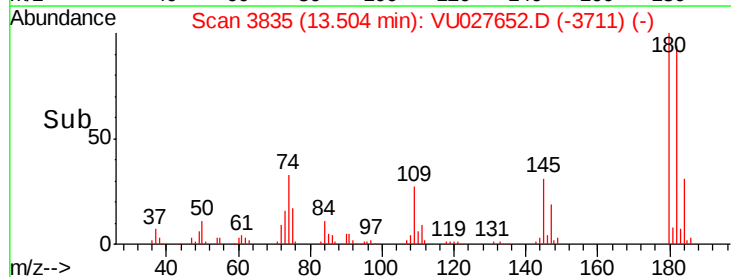
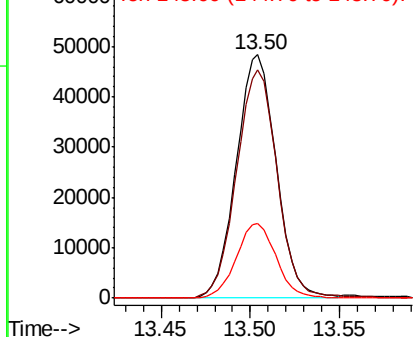


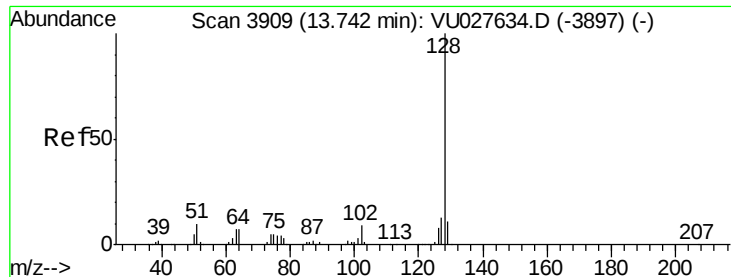
#68
 1,2,4-trichlorobenzene
 Concen: 40.489 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027652.D
 Acq: 15 Oct 2018 08:42

Tgt Ion:180 Resp: 75564
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.3 114.5
 145 30.5 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: 47.494 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

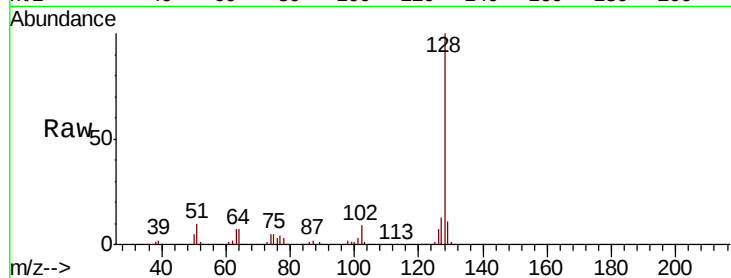
Tgt Ion:128 Resp: 273314

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

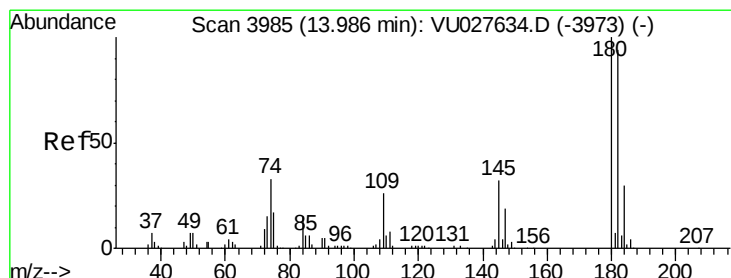
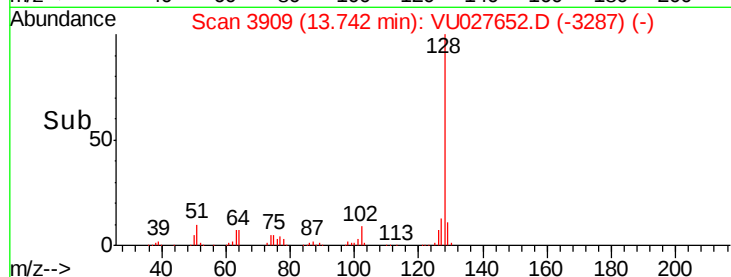
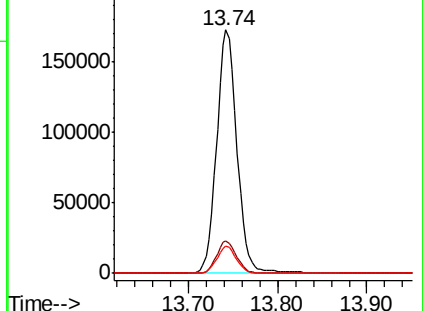
129 10.8 8.6 12.8



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: 44.270 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027652.D

Acq: 15 Oct 2018 08:42

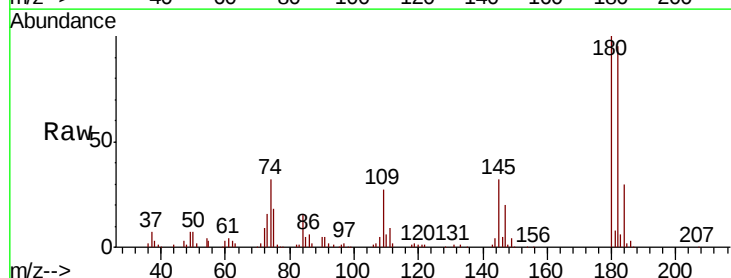
Tgt Ion:180 Resp: 84017

Ion Ratio Lower Upper

180 100

182 96.7 77.4 116.0

145 31.9 25.5 38.3



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

