

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005508.D
 Acq On : 23 Oct 2018 09:00
 Operator : JC/MD
 Sample : J5603-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-GT111

Quant Time: Oct 23 09:34:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	221339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	321000	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136835	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	144054	58.64	ug/l	0.00
Spiked Amount			Recovery	=	117.28%	
35) Dibromofluoromethane	5.49	113	111291	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
50) Toluene-d8	8.72	98	379297	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
62) 4-Bromofluorobenzene	11.14	95	124686	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	218	0.734	ug/l #	14
6) Chloroethane	1.72	64	222	0.468	ug/l #	44
10) Methyl Iodide	2.52	142	106	2.536	ug/l #	67
11) Tert butyl alcohol	3.02	59	1056	1.524	ug/l #	83
13) Acrolein	2.29	56	21	Below Cal	#	1
14) Allyl chloride	2.62	41	5571	1.309	ug/l #	56
16) Acetone	2.45	43	2180	1.535	ug/l	96
18) Methyl Acetate	2.61	43	14894	3.686	ug/l #	51
20) Methylene Chloride	2.85	84	315	Below Cal	#	66
31) Cyclohexane	5.67	56	4034	1.195	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	15262	4.909	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20893	6.688	ug/l #	16
44) Trichloroethene	7.20	130	18	Below Cal		4
49) 1,4-Dioxane	7.99	88	23	0.361	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	63080	23.766	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	63080	72.213	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

Instrument :

MSVOA_X

ClientSampleId :

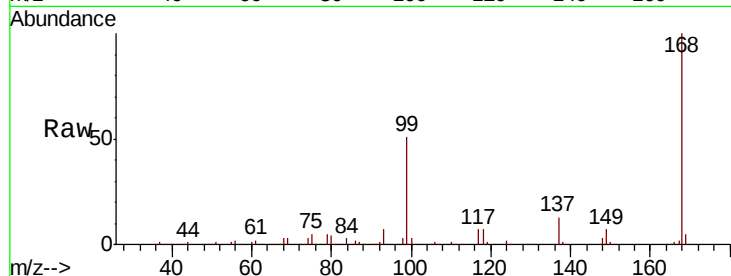
RAV-GT111

Tot Ion:168 Resp: 221339

Ion Ratio Lower Upper

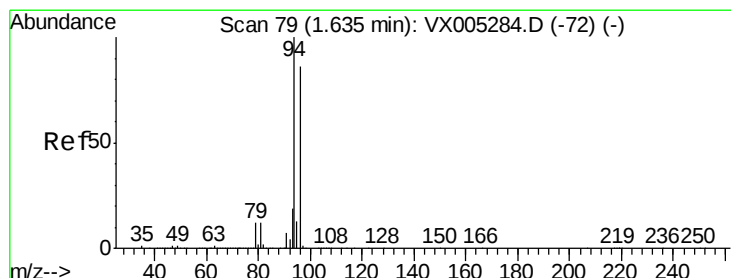
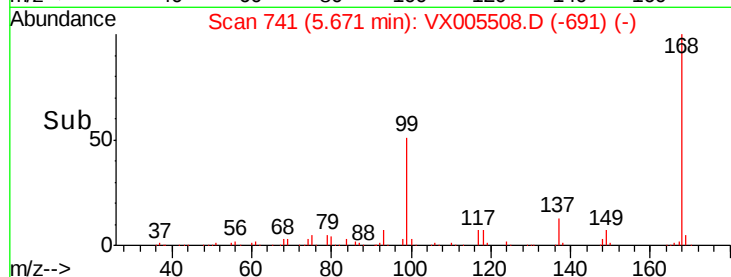
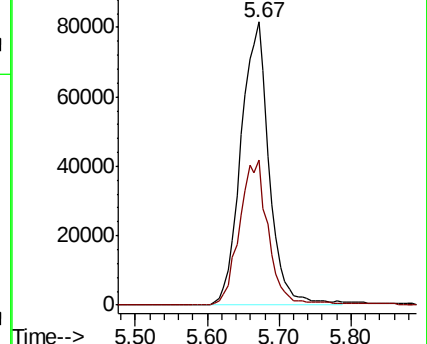
168 100

99 51.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.734 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005508.D

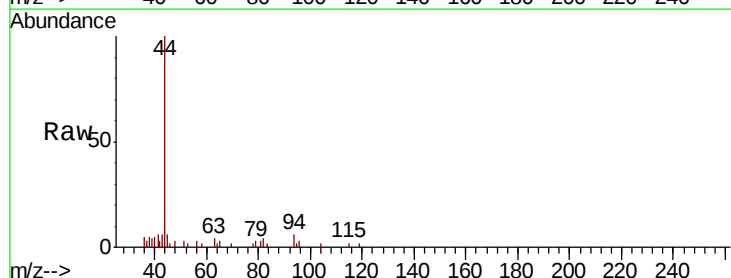
Acq: 23 Oct 2018 09:00

Tgt Ion: 94 Resp: 218

Ion Ratio Lower Upper

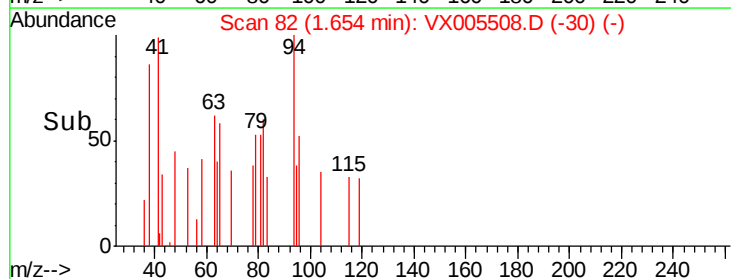
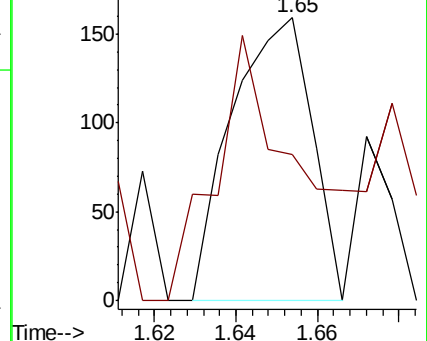
94 100

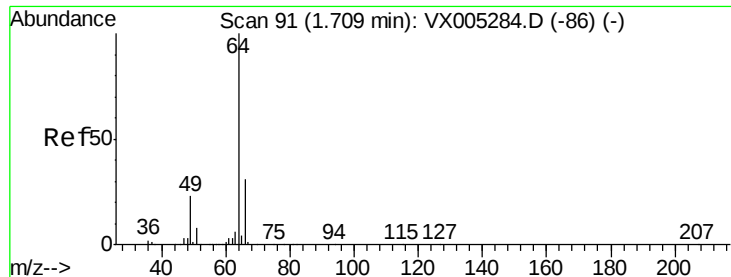
96 10.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.468 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

Instrument :

MSVOA_X

ClientSampleId :

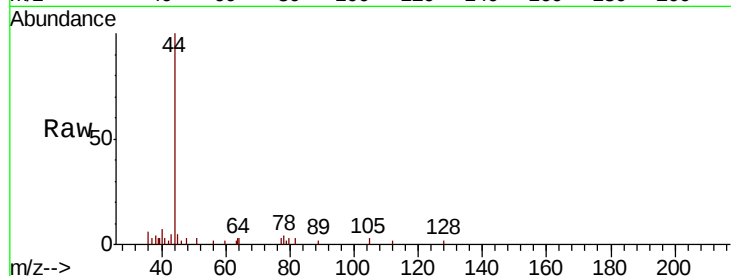
RAV-GT111

Tot Ion: 64 Resp: 222

Ion Ratio Lower Upper

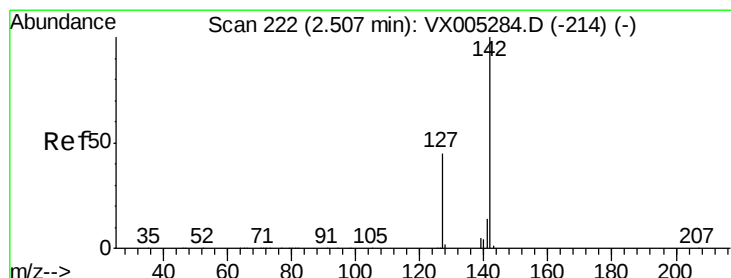
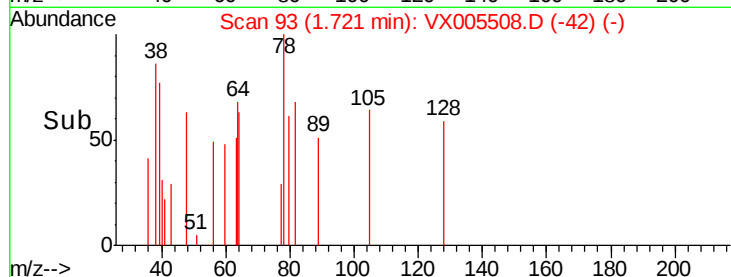
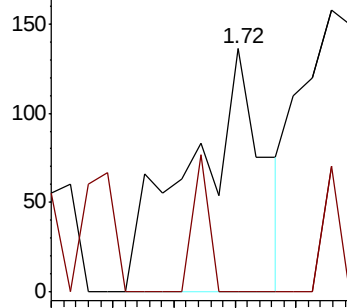
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.536 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

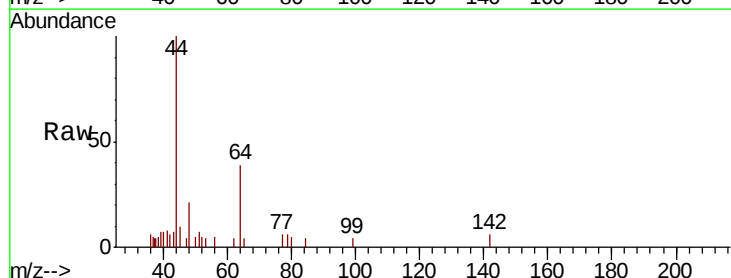
Tgt Ion: 142 Resp: 106

Ion Ratio Lower Upper

142 100

127 21.7 33.8 50.6#

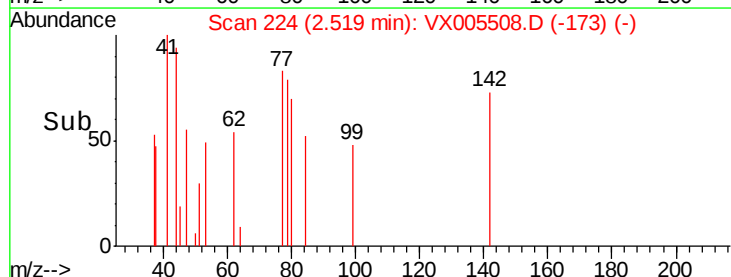
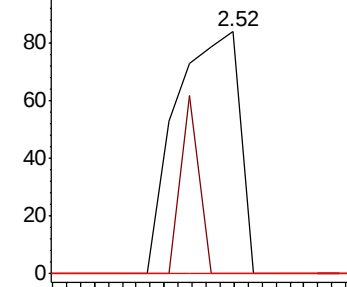
141 0.0 11.4 17.0#

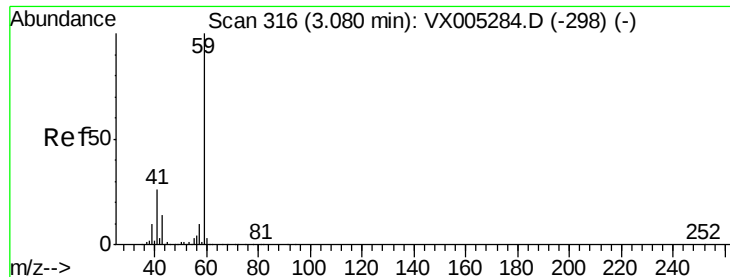


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

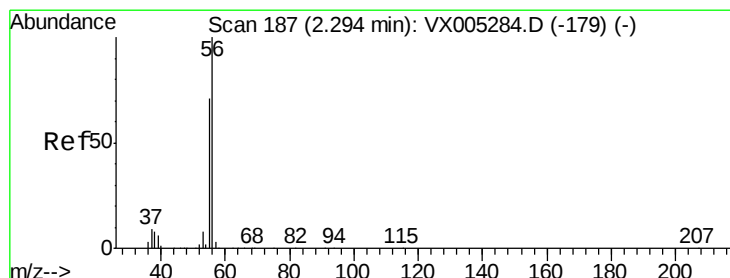
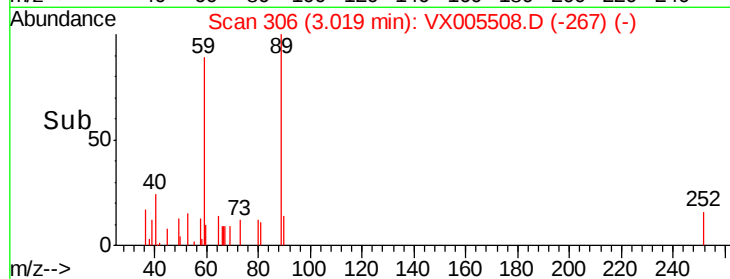
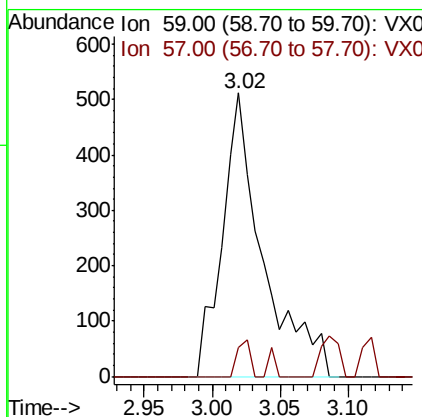
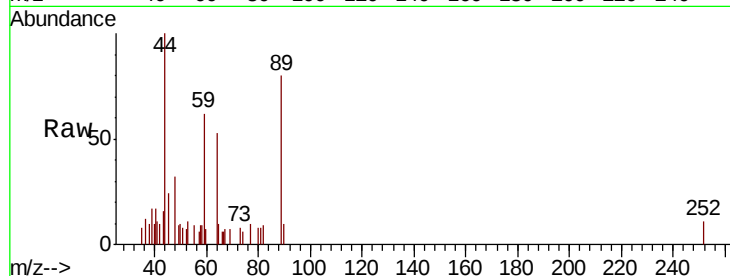




#11
Tert butyl alcohol
Concen: 1.524 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

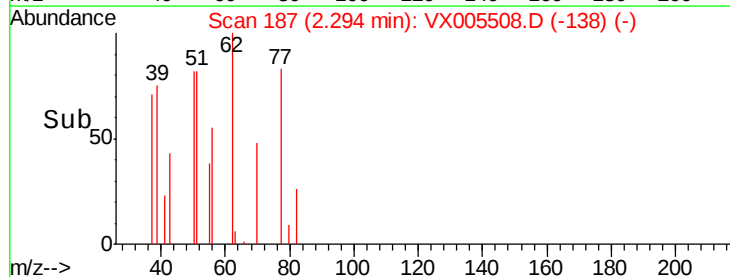
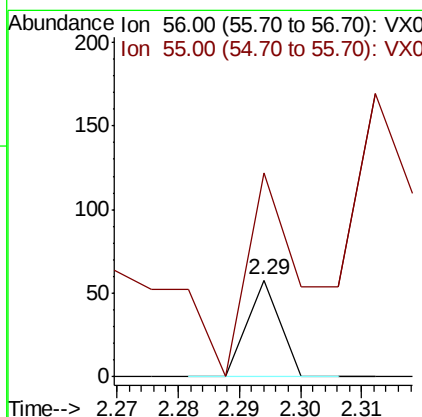
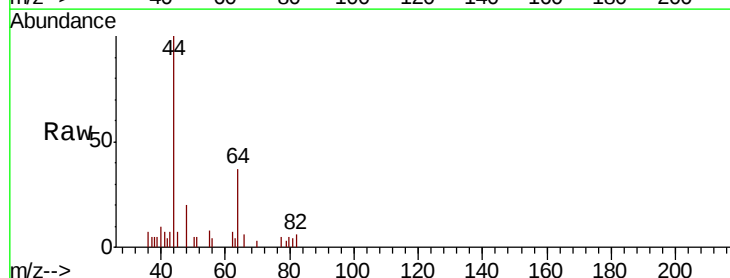
Instrument :
MSVOA_X
ClientSampleId :
RAV-GT111

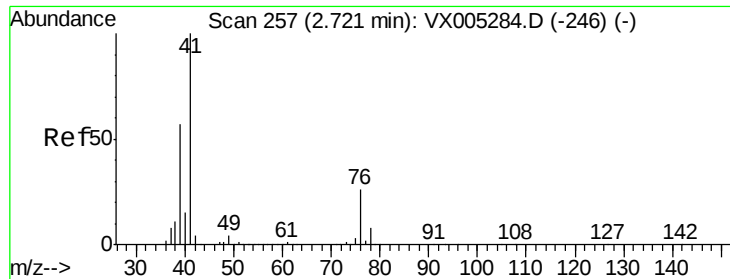
Tot Ion: 59 Resp: 1056
Ion Ratio Lower Upper
59 100
57 4.1 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

Tgt Ion: 56 Resp: 21
Ion Ratio Lower Upper
56 100
55 890.5 54.7 82.1#





#14

Allvl chloride

Concen: 1.309 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

Instrument :

MSVOA_X

ClientSampleId :

RAV-GT111

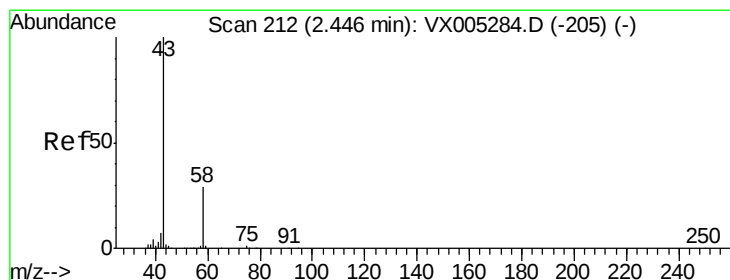
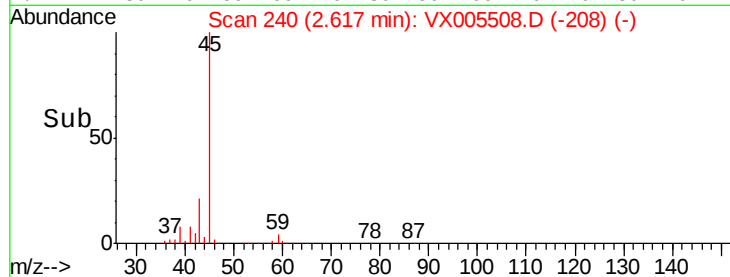
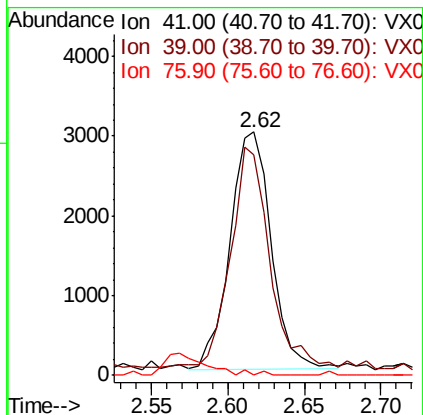
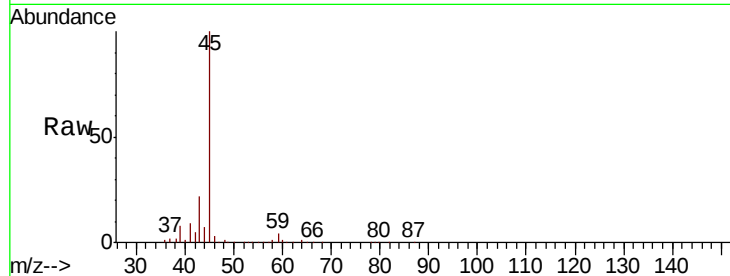
Tot Ion: 41 Resp: 5571

Ion Ratio Lower Upper

41 100

39 88.0 48.9 73.3#

76 0.0 26.7 40.1#



#16

Acetone

Concen: 1.535 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005508.D

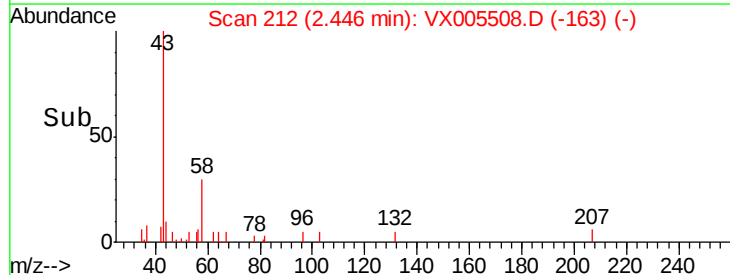
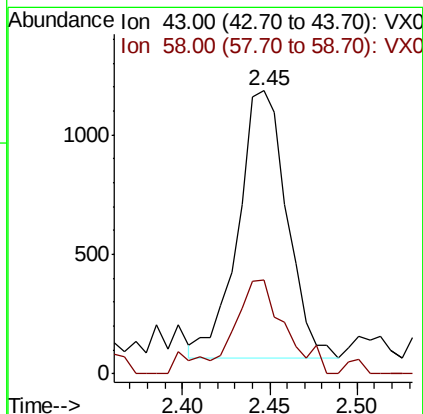
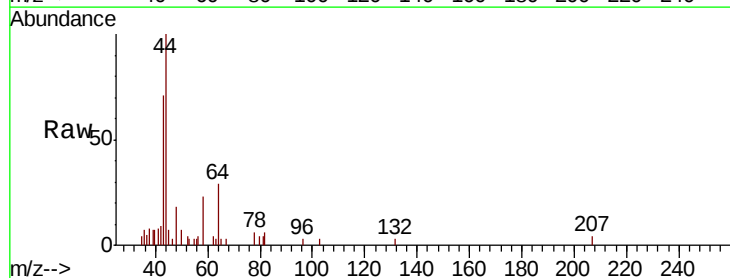
Acq: 23 Oct 2018 09:00

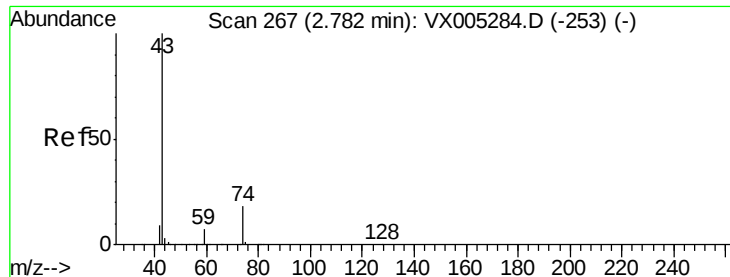
Tgt Ion: 43 Resp: 2180

Ion Ratio Lower Upper

43 100

58 34.9 26.2 39.4

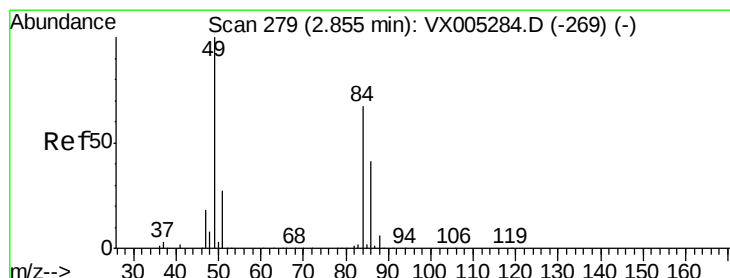
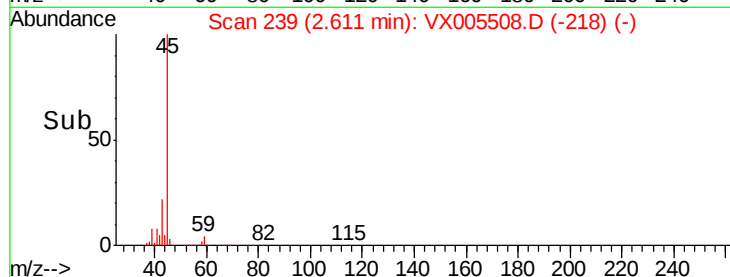
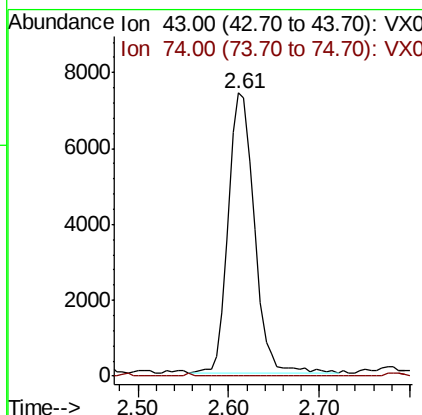
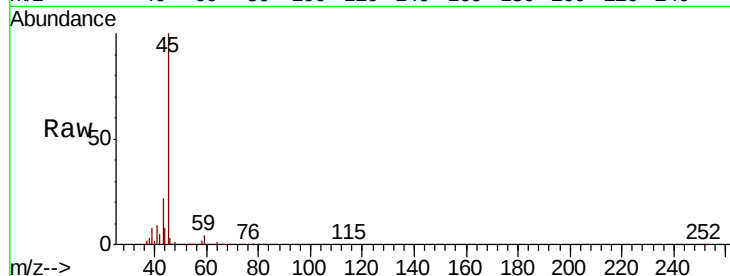




#18
Methyl Acetate
Concen: 3.686 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.17 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

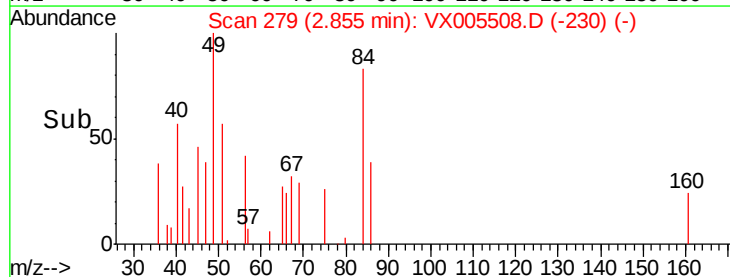
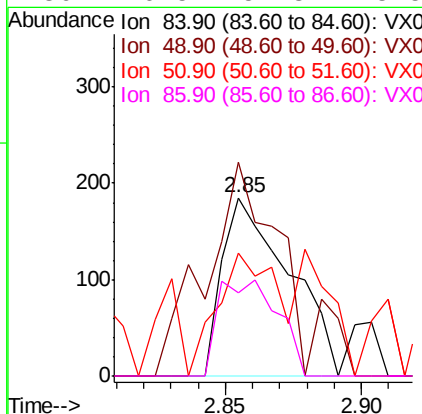
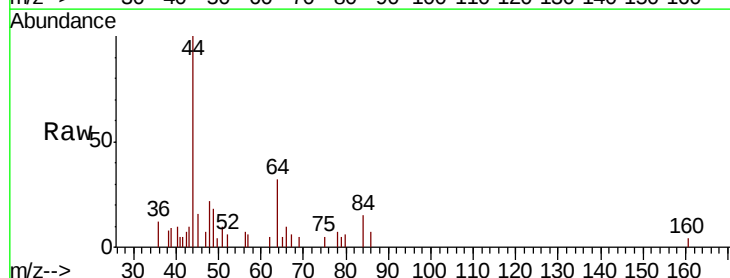
Instrument :
MSVOA_X
ClientSampled :
RAV-GT111

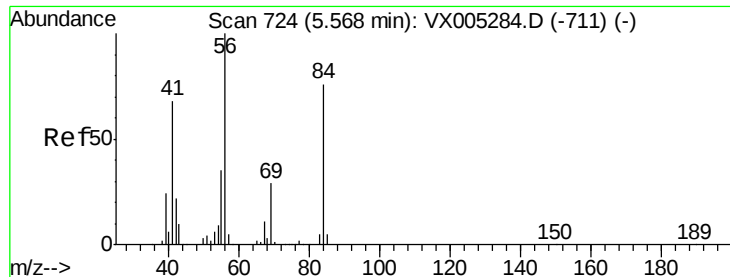
Tot Ion: 43 Resp: 14894
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

Tgt Ion: 84 Resp: 315
Ion Ratio Lower Upper
84 100
49 88.1 101.2 151.8#
51 68.6 29.5 44.3#
86 46.5 52.3 78.5#

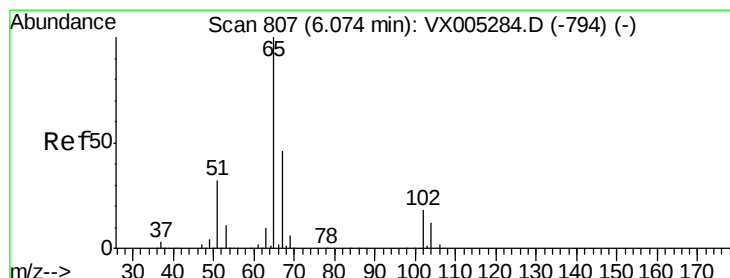
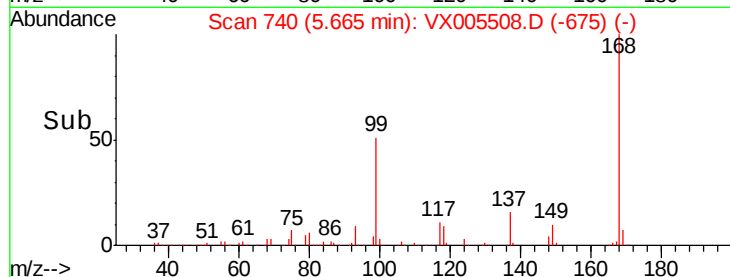
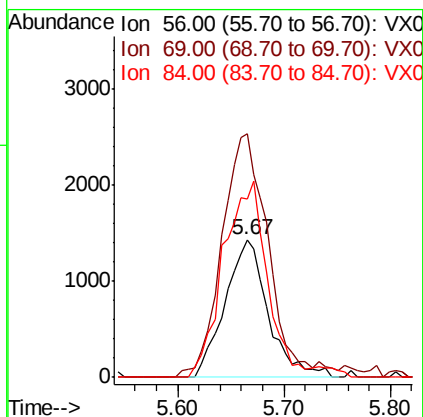
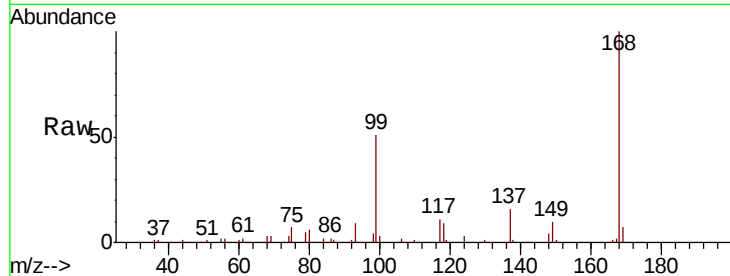




#31
Cyclohexane
Concen: 1.195 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

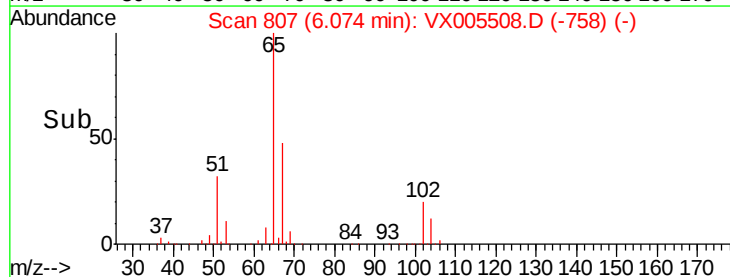
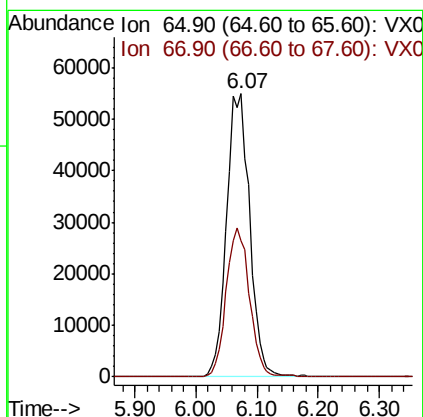
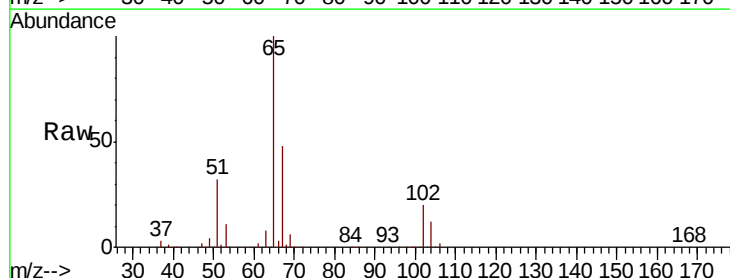
Instrument :
MSVOA_X
ClientSampleId :
RAV-GT111

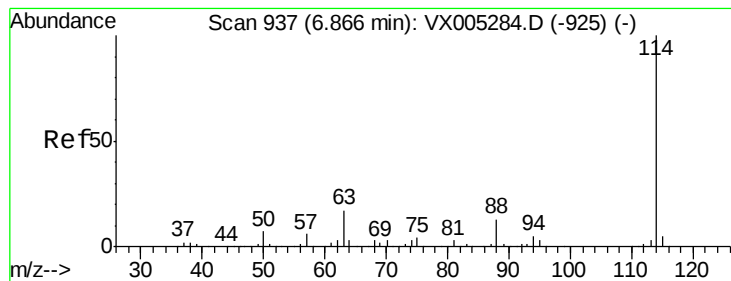
Tot Ion: 56 Resp: 4034
Ion Ratio Lower Upper
56 100
69 172.5 25.4 38.2#
84 129.6 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 58.641 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

Tgt Ion: 65 Resp: 144054
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

Instrument :

MSVOA_X

ClientSampleId :

RAV-GT111

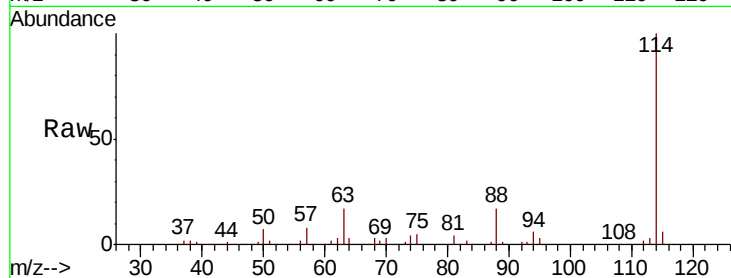
Tot Ion:114 Resp: 321000

Ion Ratio Lower Upper

114 100

63 17.3 0.0 39.0

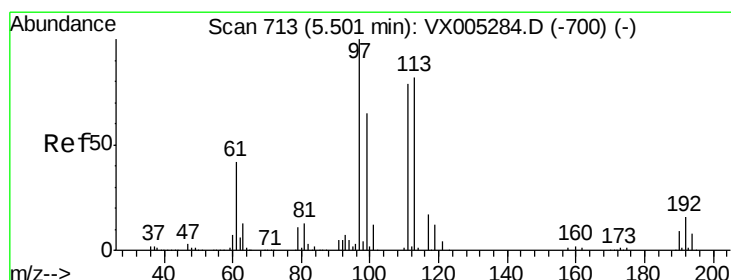
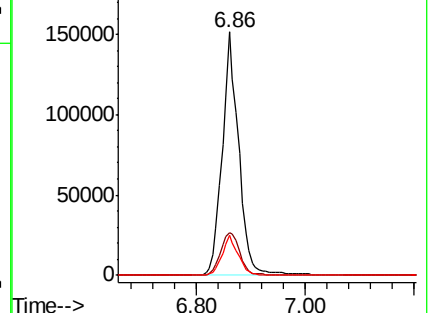
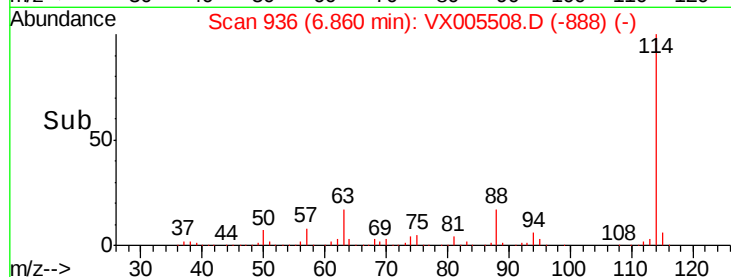
88 16.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.346 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

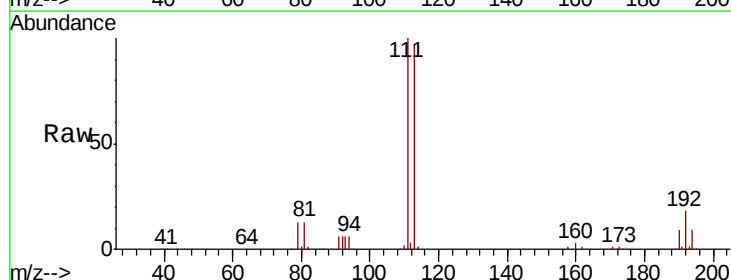
Tgt Ion:113 Resp: 111291

Ion Ratio Lower Upper

113 100

111 104.9 82.4 123.6

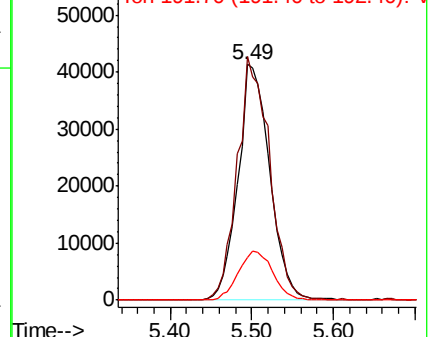
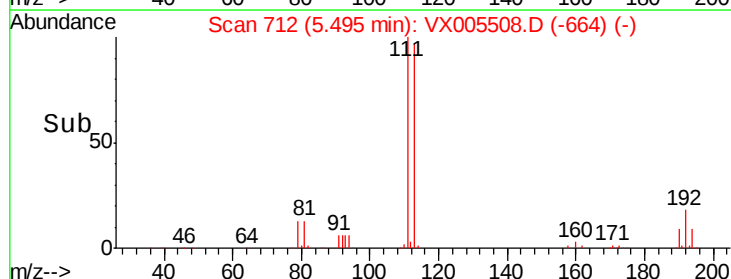
192 22.6 19.4 29.2

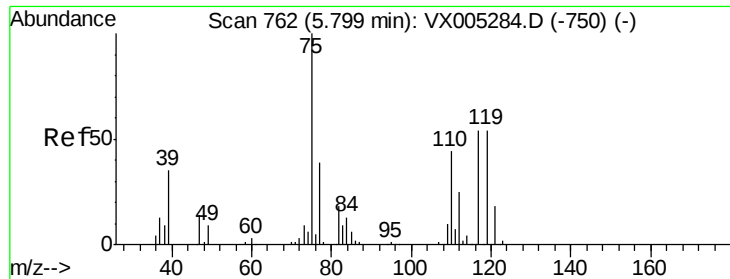


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

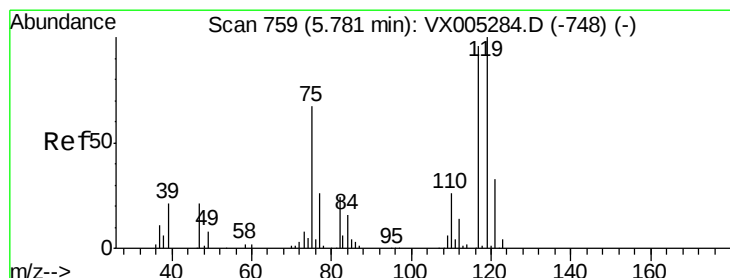
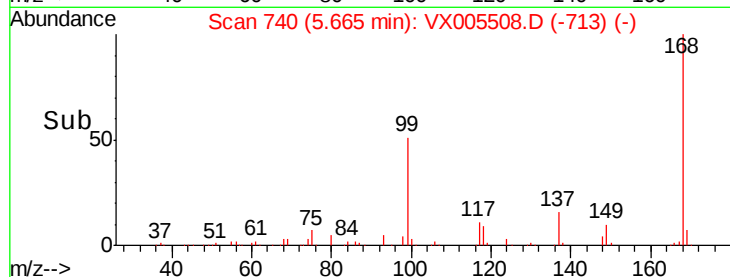
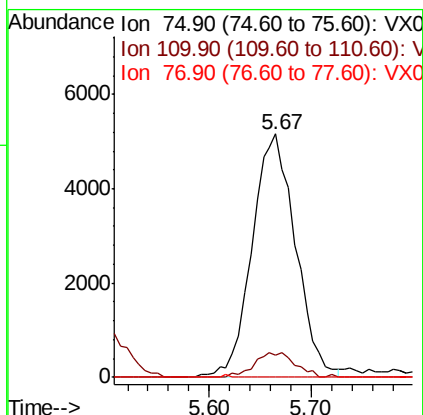
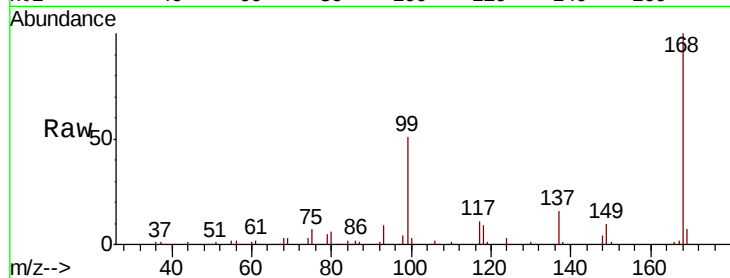




#36
 1,1-Dichloropropene
 Concen: 4.909 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005508.D
 Acq: 23 Oct 2018 09:00

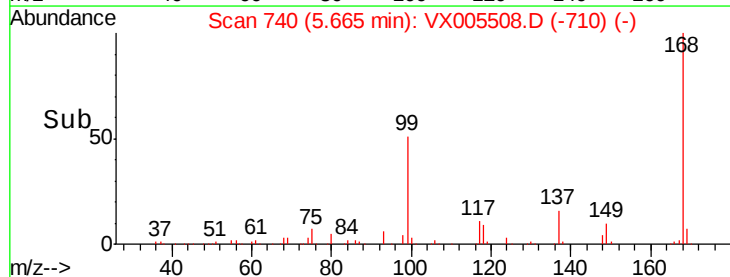
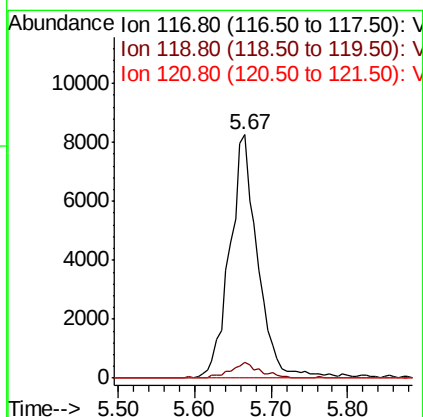
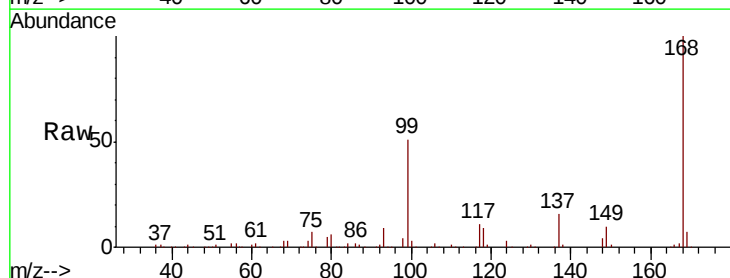
Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-GT111

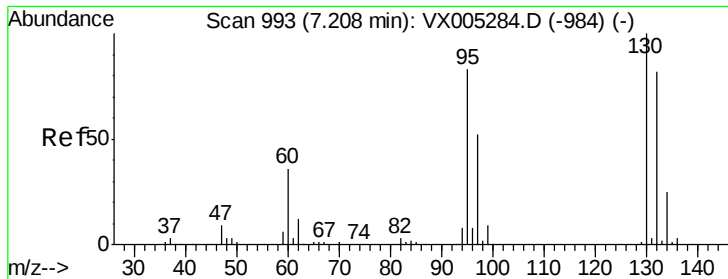
Tot Ion: 75 Resp: 15262
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.0 54.0#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.688 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005508.D
 Acq: 23 Oct 2018 09:00

Tgt Ion: 117 Resp: 20893
 Ion Ratio Lower Upper
 117 100
 119 6.5 78.8 118.2#
 121 0.0 24.9 37.3#





#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 991

Delta R.T. -0.01 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

Instrument :

MSVOA_X

ClientSampled :

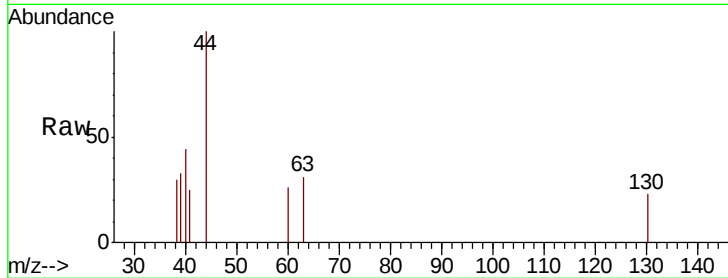
RAV-GT111

Tot Ion:130 Resp: 18

Ion Ratio Lower Upper

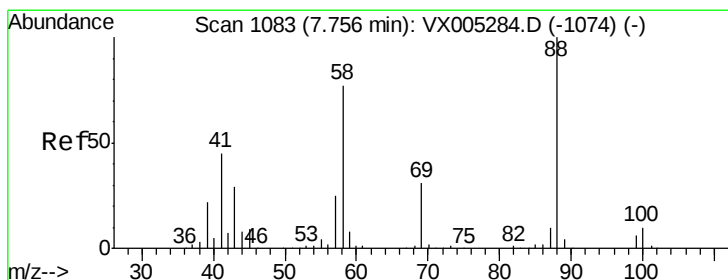
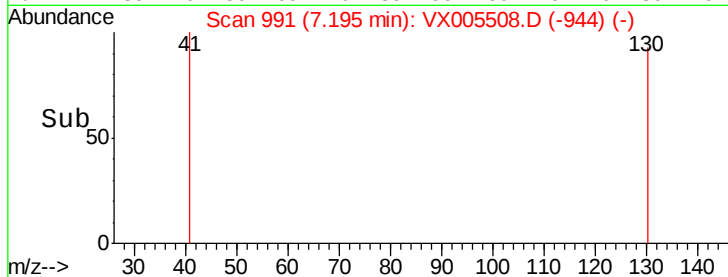
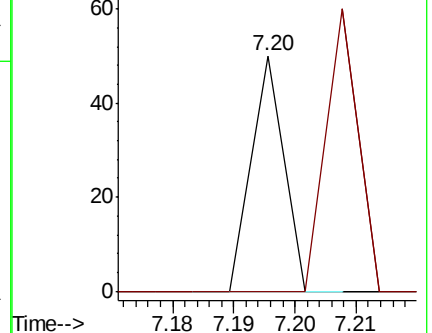
130 100

95 0.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.361 ug/l

RT: 7.99 min Scan# 1122

Delta R.T. 0.24 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

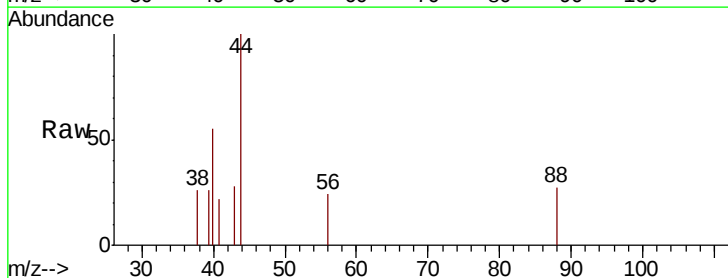
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 147.8 24.7 37.1#

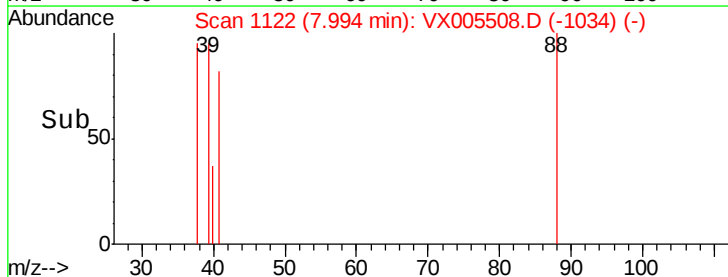
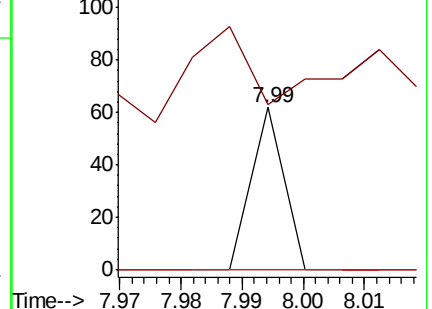
58 0.0 55.3 82.9#

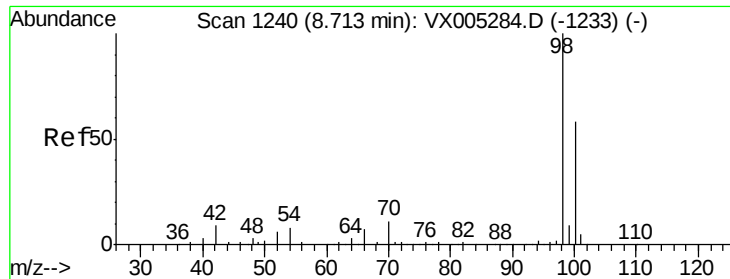


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

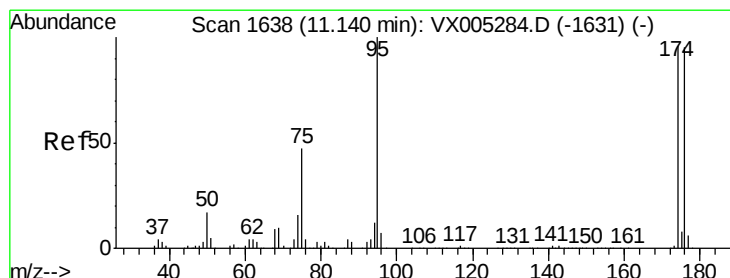
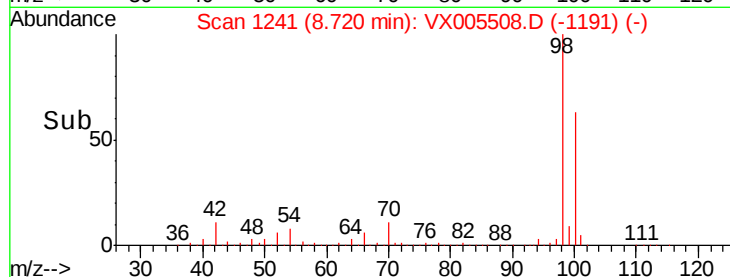
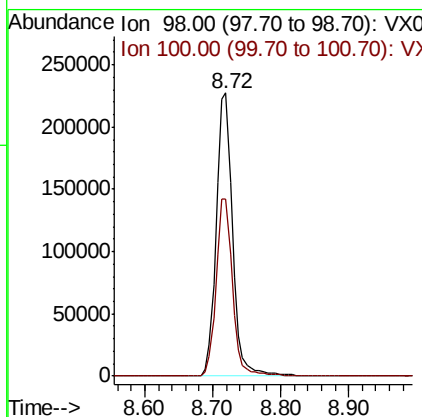
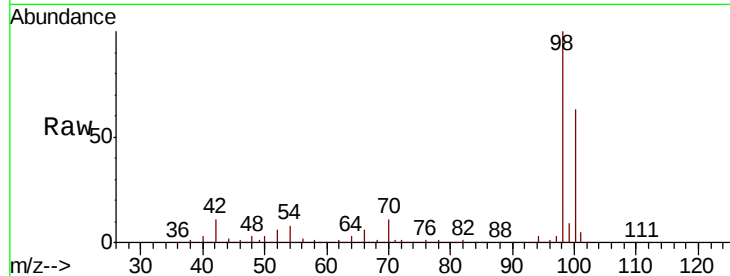




#50
Toluene-d8
Concen: 51.966 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

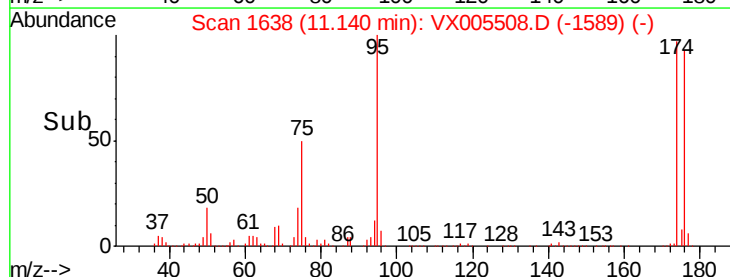
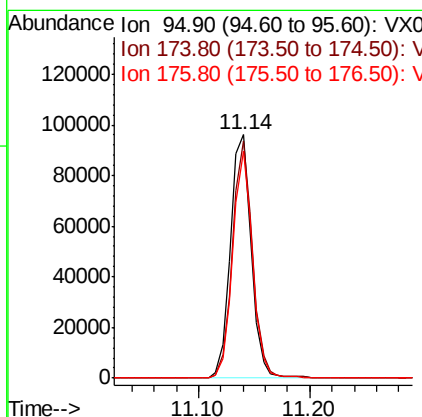
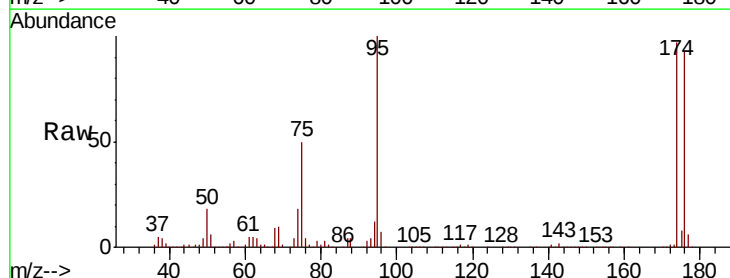
Instrument :
MSVOA_X
ClientSampled :
RAV-GT111

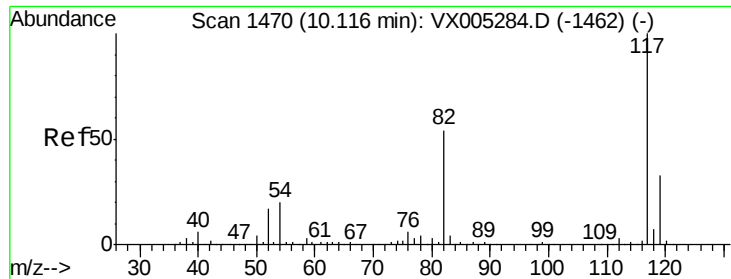
Tot Ion: 98 Resp: 379297
Ion Ratio Lower Upper
98 100
100 63.0 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 45.474 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

Tgt Ion: 95 Resp: 124686
Ion Ratio Lower Upper
95 100
174 93.5 0.0 185.2
176 89.0 0.0 178.6

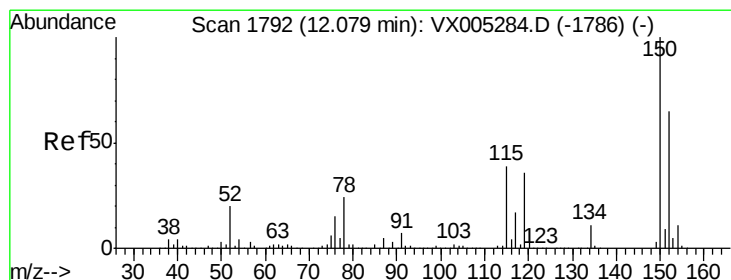
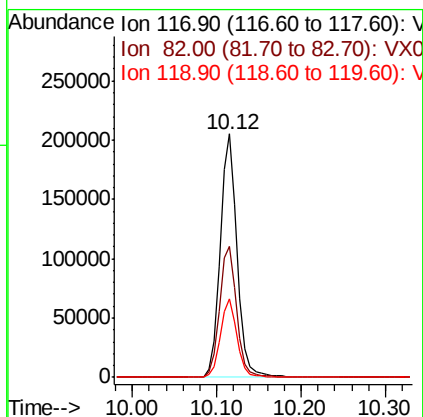
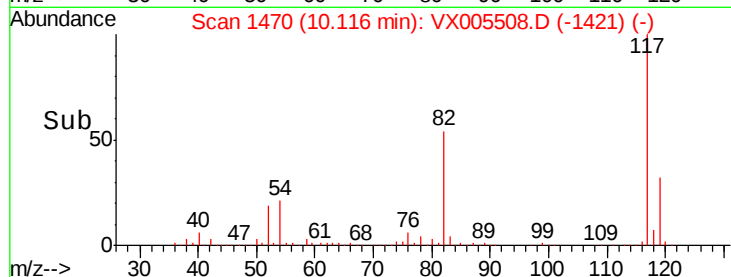
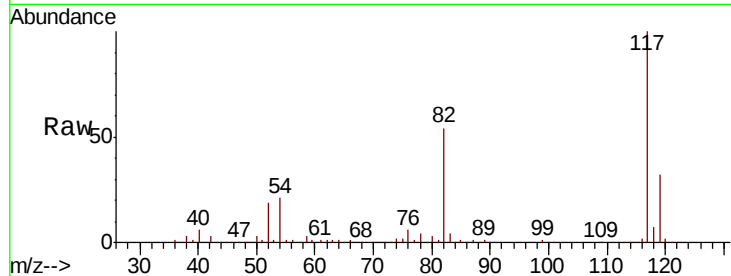




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

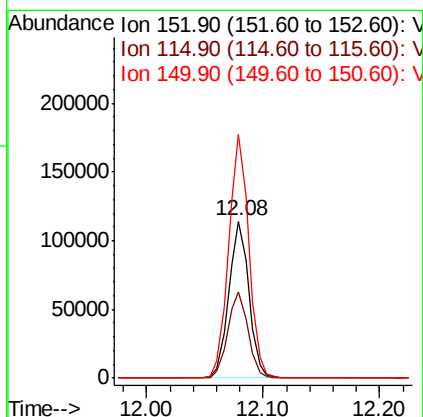
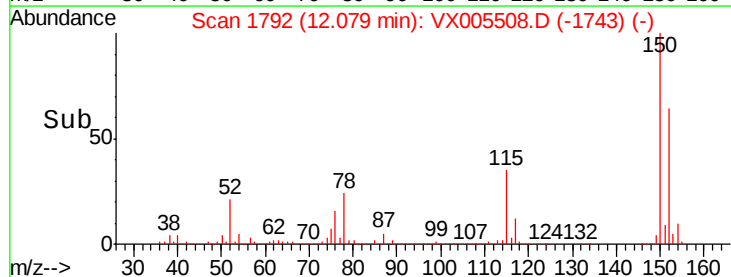
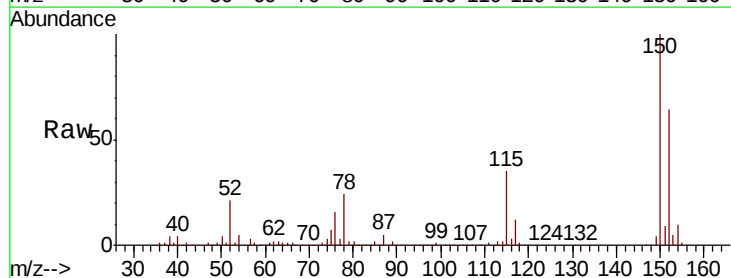
Instrument :
MSVOA_X
ClientSampled :
RAV-GT111

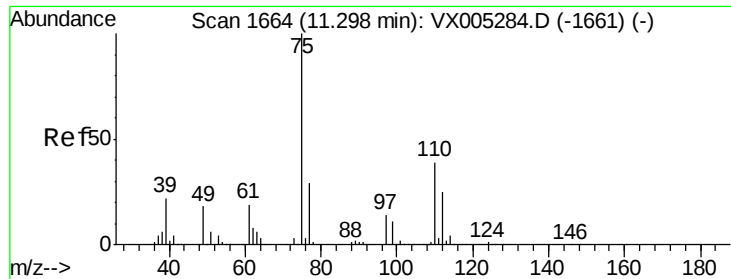
Tot Ion:117 Resp: 283796
Ion Ratio Lower Upper
117 100
82 53.7 47.8 71.6
119 32.0 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005508.D
Acq: 23 Oct 2018 09:00

Tgt Ion:152 Resp: 136835
Ion Ratio Lower Upper
152 100
115 55.6 39.0 117.0
150 155.8 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 23.766 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

Instrument :

MSVOA_X

ClientSampled :

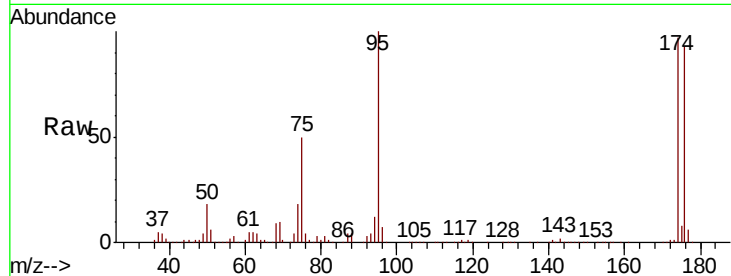
RAV-GT111

Tot Ion: 75 Resp: 63080

Ion Ratio Lower Upper

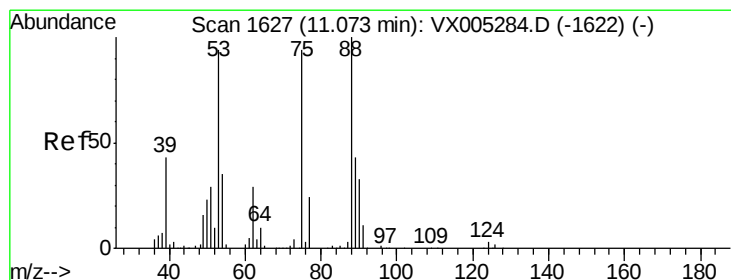
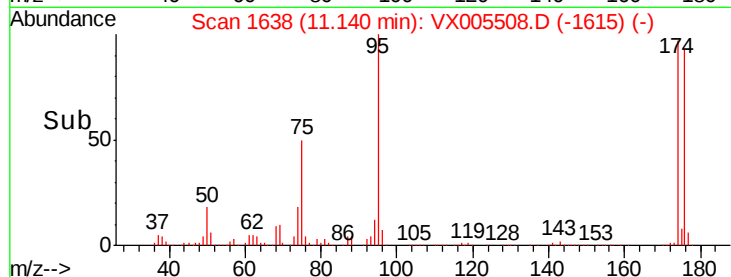
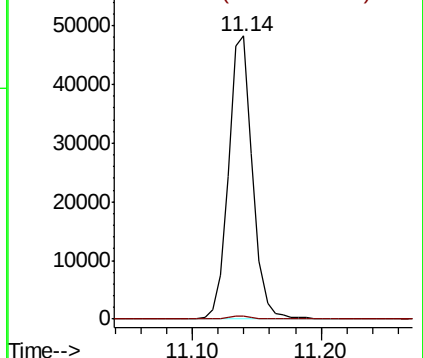
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 72.213 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005508.D

Acq: 23 Oct 2018 09:00

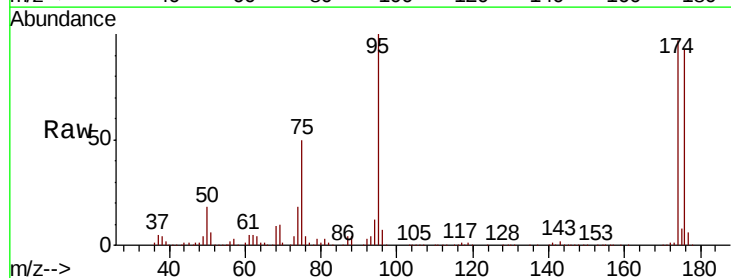
Tgt Ion: 75 Resp: 63080

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

