

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102618\
 Data File : VX005634.D
 Acq On : 27 Oct 2018 05:07
 Operator : JC/MD
 Sample : J5692-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ145D-20181024

Quant Time: Oct 27 06:05:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	248350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	372086	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204453	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	151306	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
35) Dibromofluoromethane	5.49	113	123301	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
50) Toluene-d8	8.71	98	429081	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
62) 4-Bromofluorobenzene	11.14	95	144961	42.40	ug/l	0.00
Spiked Amount			Recovery	=	84.80%	

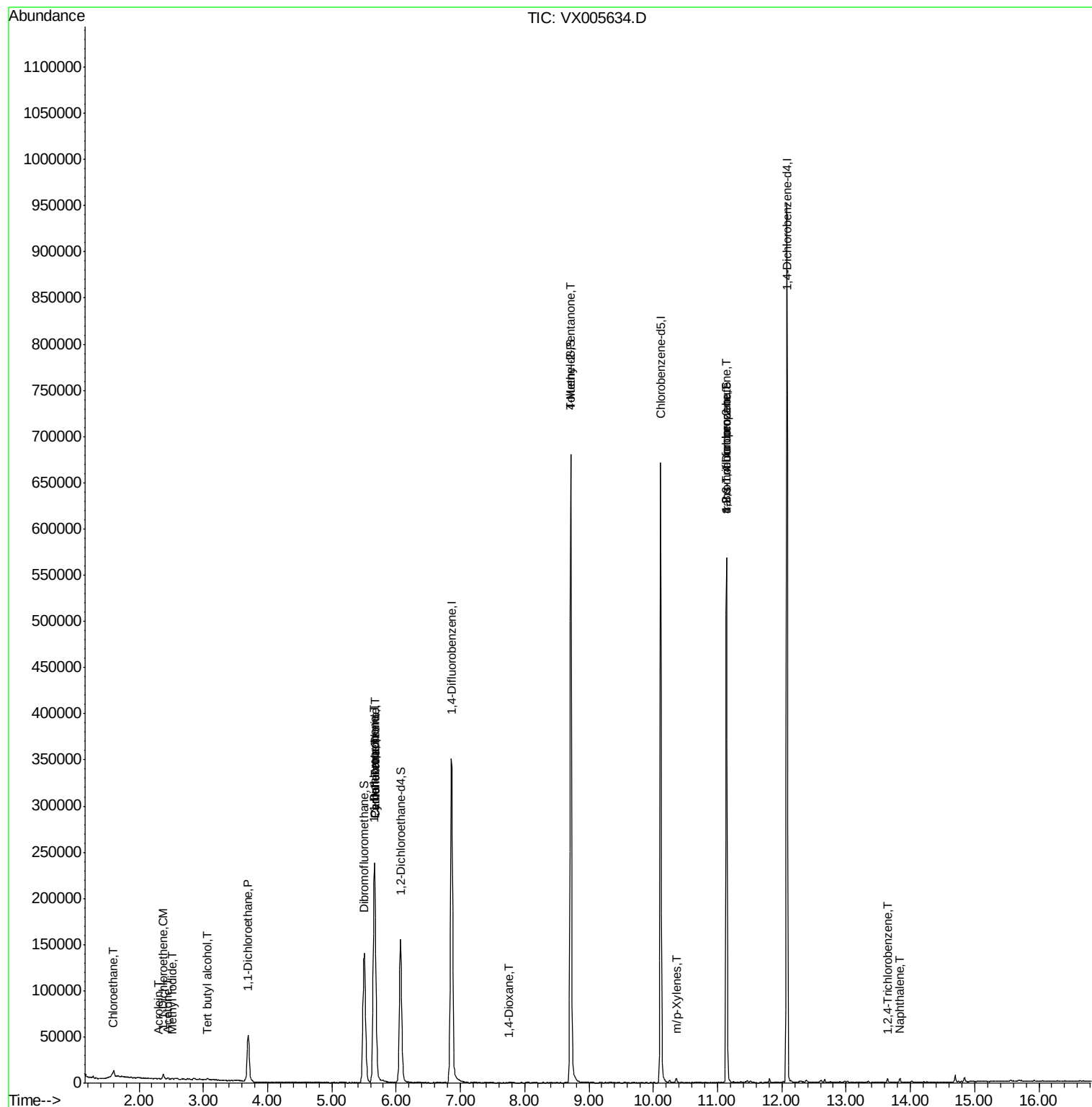
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.59	64	11254	5.739	ug/l #	51
10) Methyl Iodide	2.51	142	208	2.802	ug/l #	50
11) Tert butyl alcohol	3.06	59	1092	1.339	ug/l #	87
12) 1,1-Dichloroethene	2.37	96	1844	0.791	ug/l	87
13) Acrolein	2.30	56	113	0.272	ug/l #	14
16) Acetone	2.45	43	377	0.235	ug/l #	51
18) Methyl Acetate	2.78	43	221	Below Cal	#	80
24) 1,1-Dichloroethane	3.70	63	58526	11.848	ug/l	98
31) Cyclohexane	5.66	56	4620	1.130	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	17289	4.788	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21729	5.713	ug/l #	16
49) 1,4-Dioxane	7.75	88	156	2.122	ug/l #	72
51) 4-Methyl-2-Pentanone	8.71	43	1899	0.409	ug/l #	1
68) m/p-Xylenes	10.36	106	1125	0.258	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	71079	16.408	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	71079	53.615	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.65	180	1048	0.218	ug/l #	91
95) Naphthalene	13.83	128	3100	0.222	ug/l	99

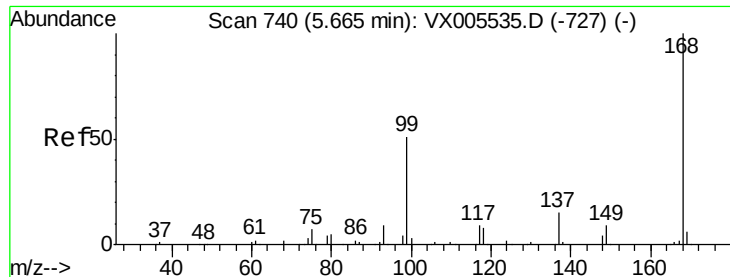
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

Instrument :

MSVOA_X

ClientSampleId :

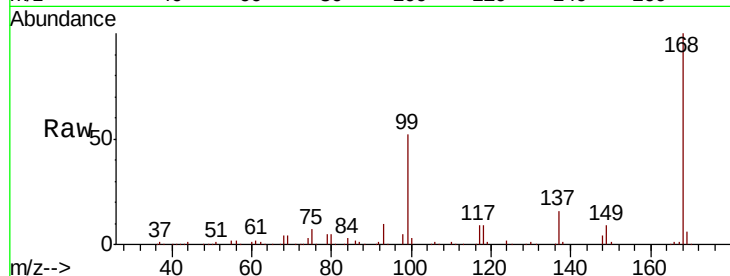
SA-PZ145D-20181024

Tot Ion:168 Resp: 248350

Ion Ratio Lower Upper

168 100

99 51.9 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

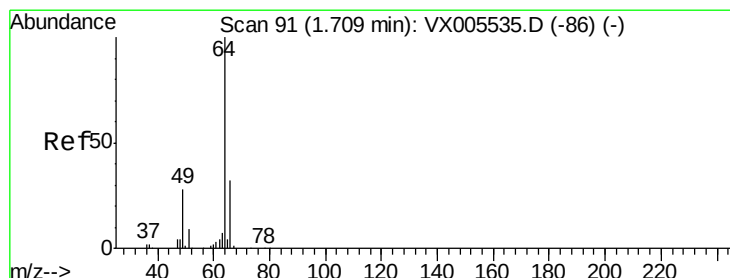
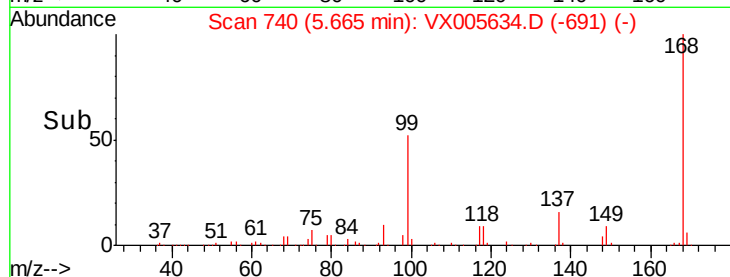
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 5.739 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX005634.D

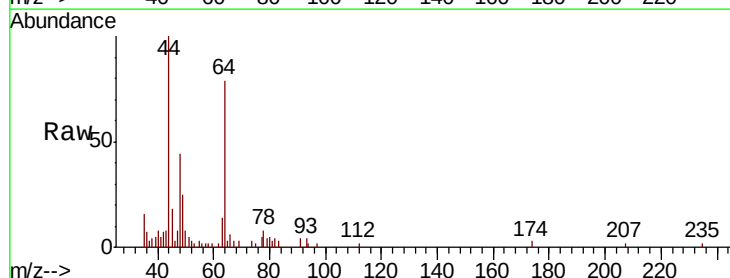
Acq: 27 Oct 2018 05:07

Tgt Ion: 64 Resp: 11254

Ion Ratio Lower Upper

64 100

66 4.6 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.59

2000

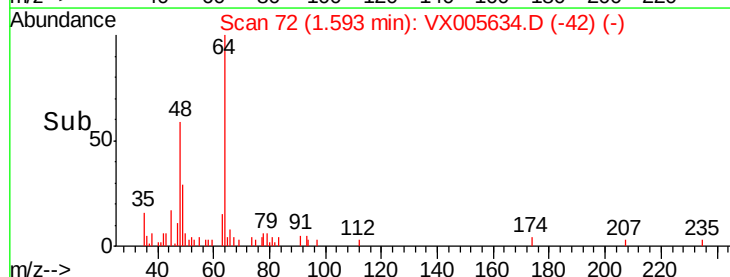
1500

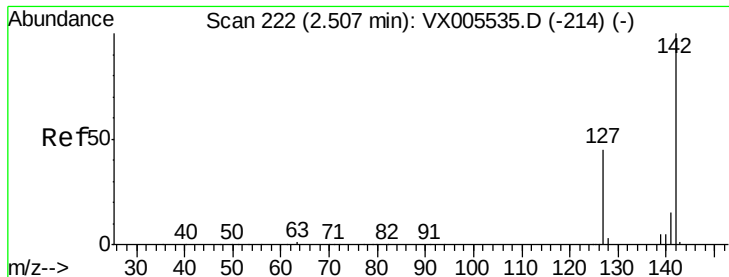
1000

500

0

Time--> 1.40 1.50 1.60

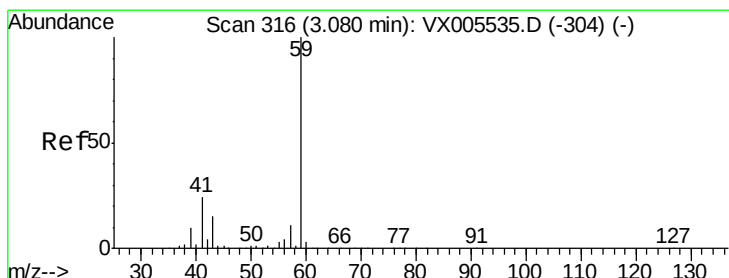
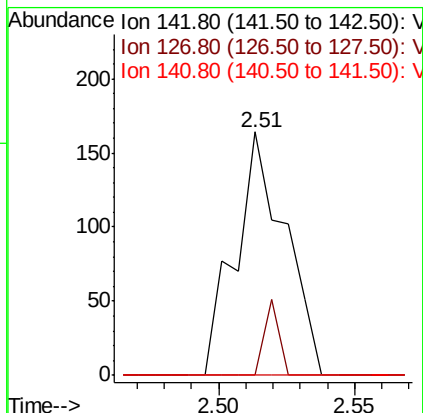
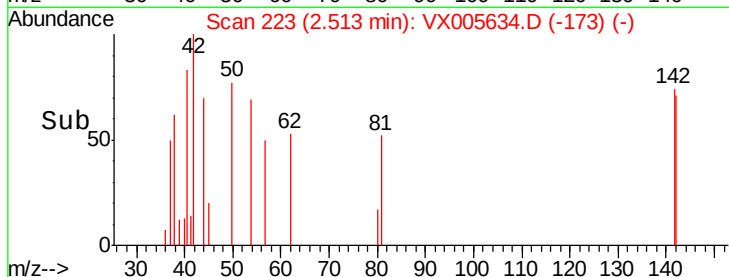
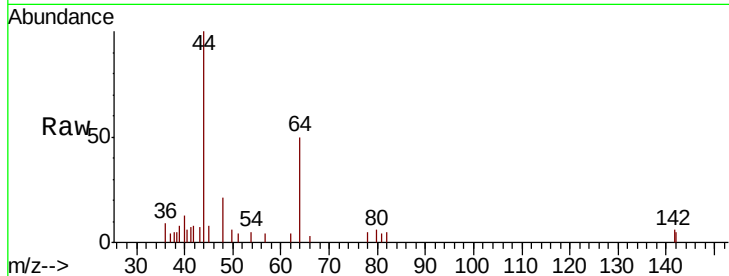




#10
Methvl Iodide
Concen: 2.802 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

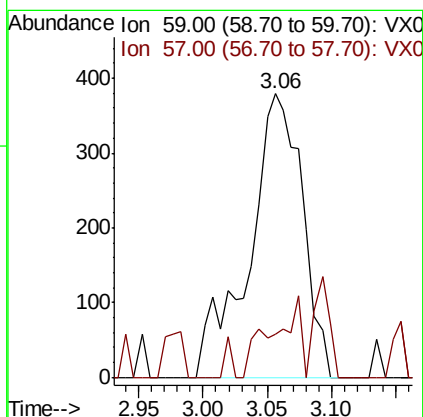
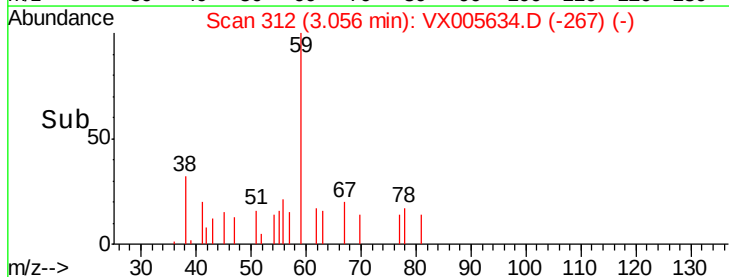
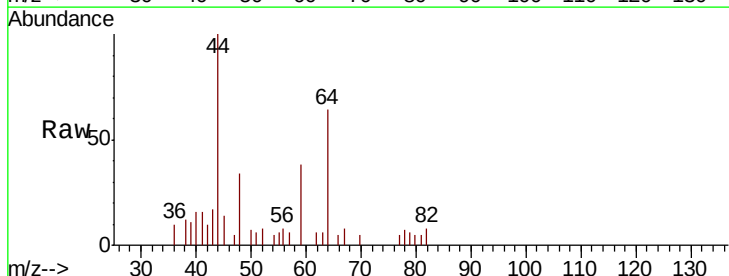
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ145D-20181024

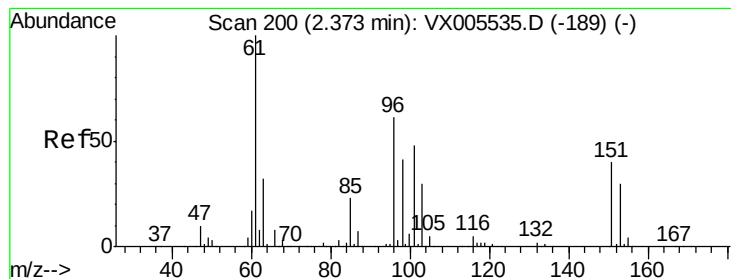
Tot Ion:142 Resp: 208
Ion Ratio Lower Upper
142 100
127 9.1 36.0 54.0#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 1.339 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

Tgt Ion: 59 Resp: 1092
Ion Ratio Lower Upper
59 100
57 5.6 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.791 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ145D-20181024

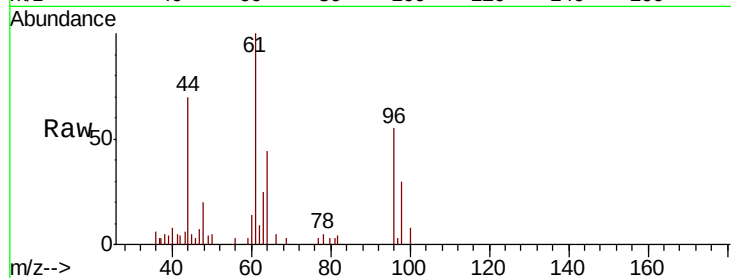
Tot Ion: 96 Resp: 1844

Ion Ratio Lower Upper

96 100

61 181.8 131.8 197.8

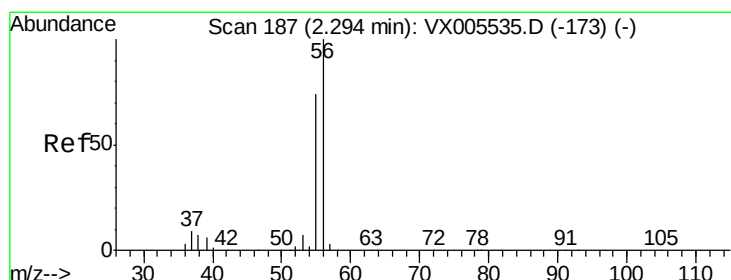
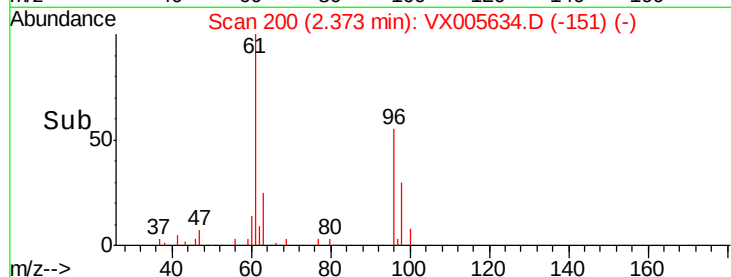
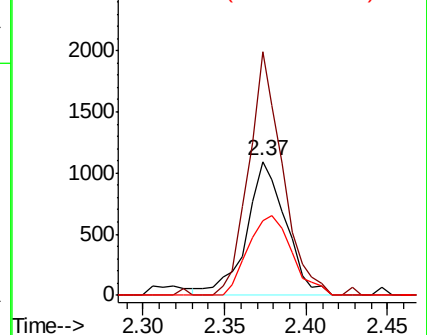
98 55.4 53.4 80.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.272 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX005634.D

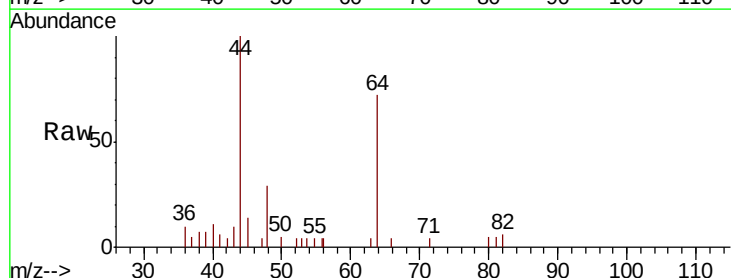
Acq: 27 Oct 2018 05:07

Tgt Ion: 56 Resp: 113

Ion Ratio Lower Upper

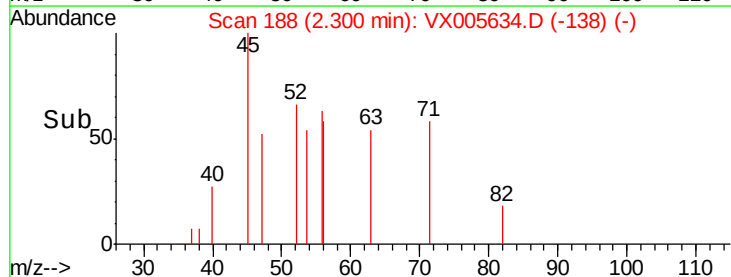
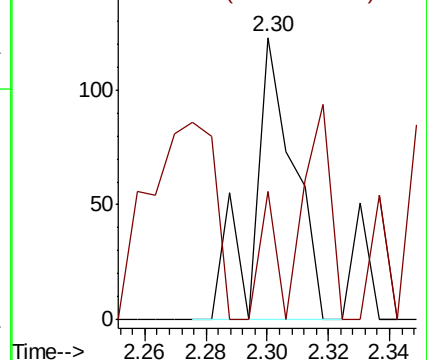
56 100

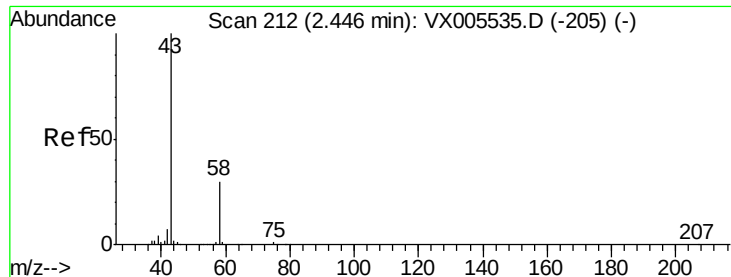
55 0.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.235 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

Instrument :

MSVOA_X

ClientSampleId :

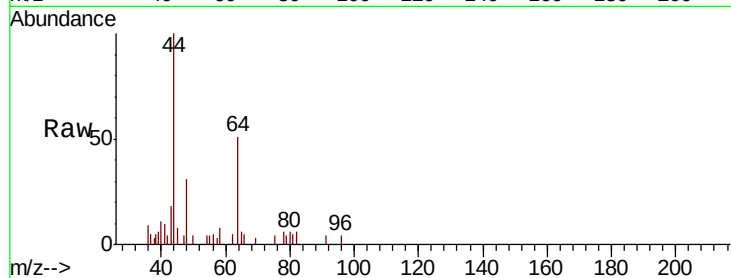
SA-PZ145D-20181024

Tot Ion: 43 Resp: 377

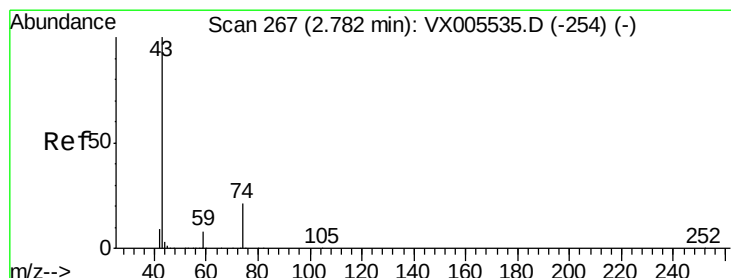
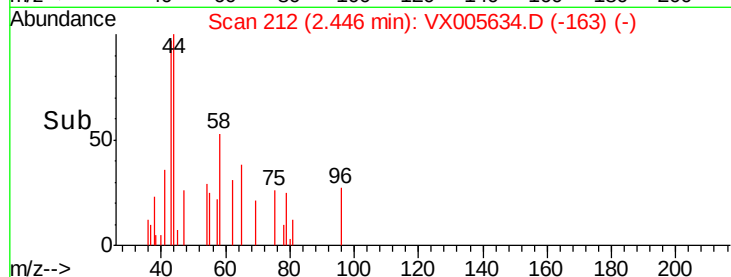
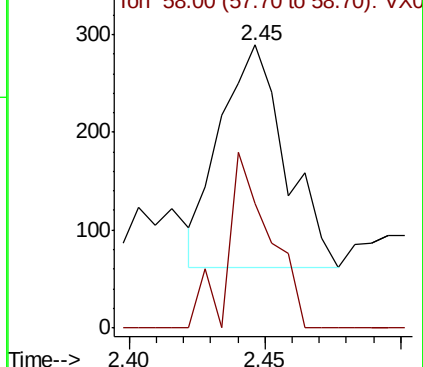
Ion Ratio Lower Upper

43 100

58 55.9 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005634.D

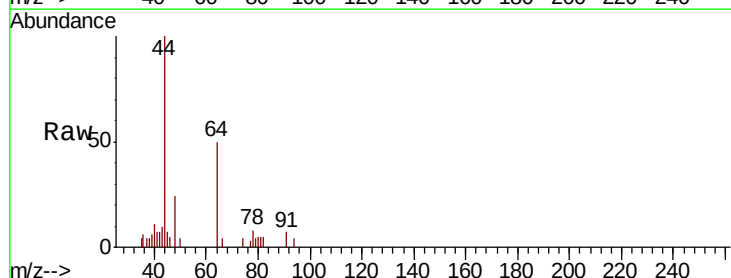
Acq: 27 Oct 2018 05:07

Tgt Ion: 43 Resp: 221

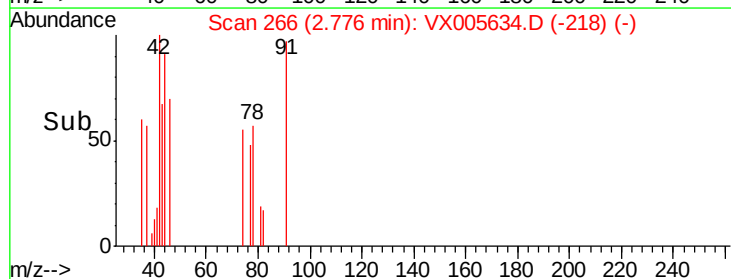
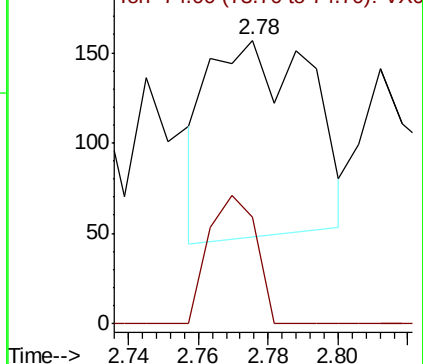
Ion Ratio Lower Upper

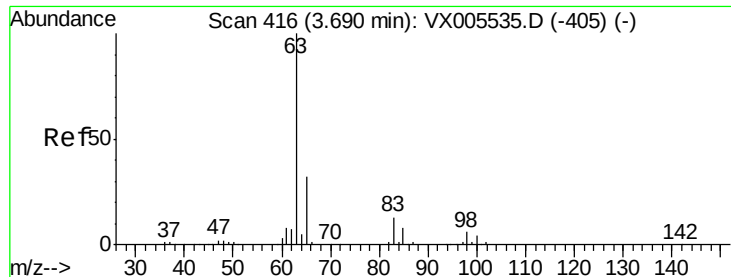
43 100

74 30.3 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0





#24

1,1-Dichloroethane

Concen: 11.848 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ145D-20181024

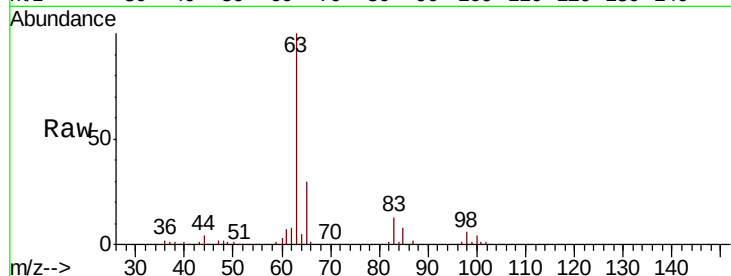
Tot Ion: 63 Resp: 58526

Ion Ratio Lower Upper

63 100

98 5.7 3.2 9.6

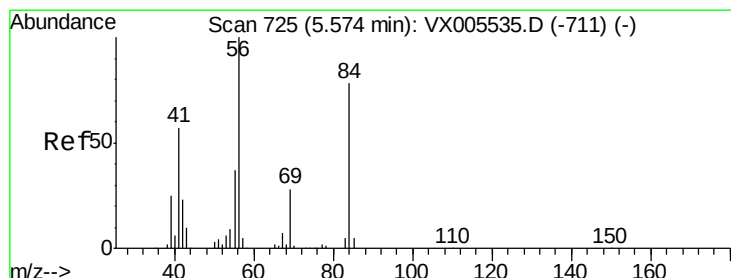
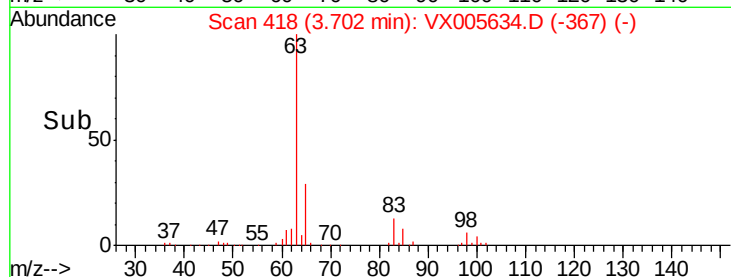
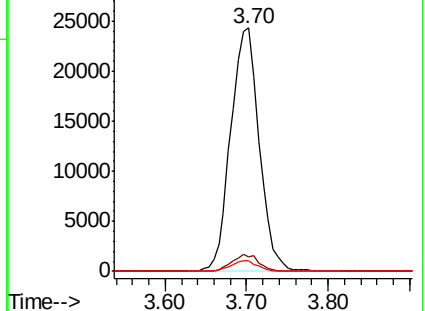
100 4.4 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#31

Cyclohexane

Concen: 1.130 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

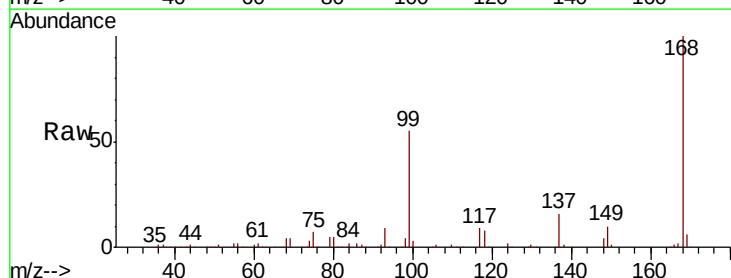
Tgt Ion: 56 Resp: 4620

Ion Ratio Lower Upper

56 100

69 189.4 22.6 34.0#

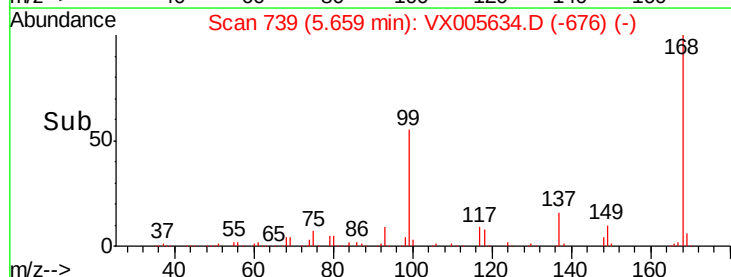
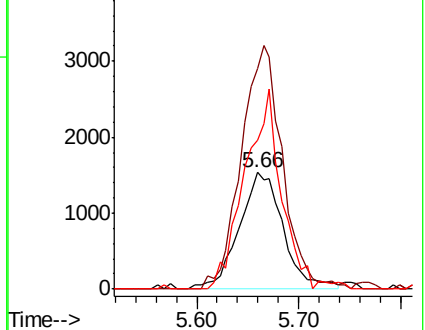
84 128.4 62.7 94.1#

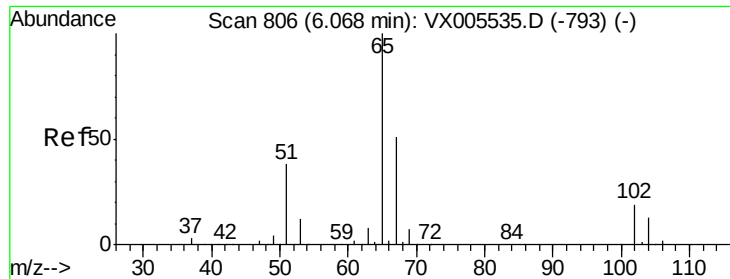


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

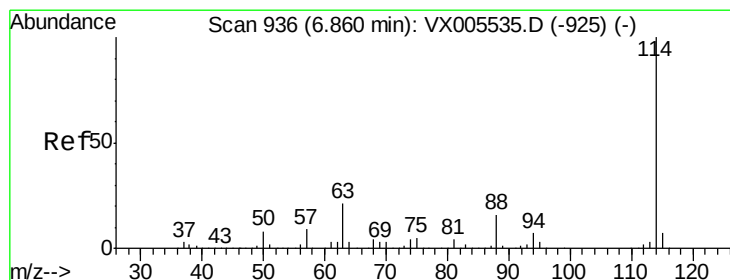
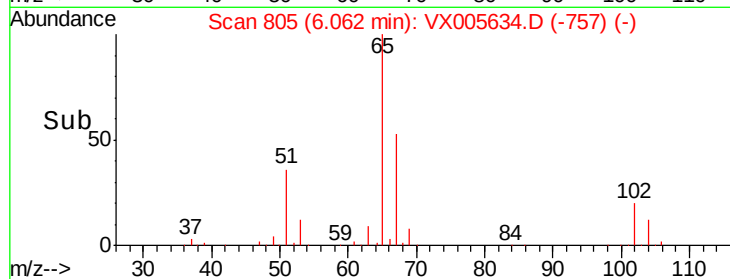
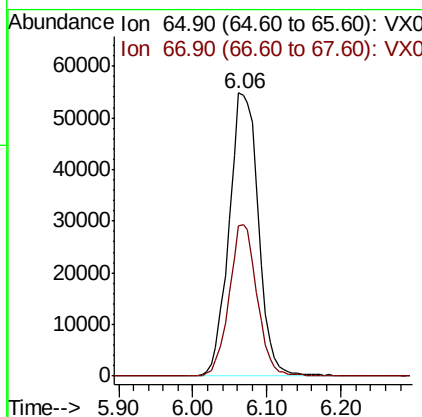
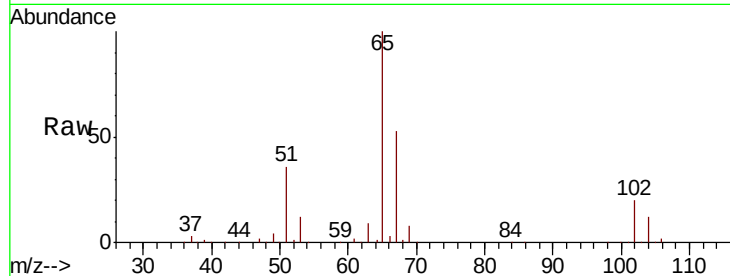




#33
 1,2-Dichloroethane-d4
 Concen: 49.910 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX005634.D
 Acq: 27 Oct 2018 05:07

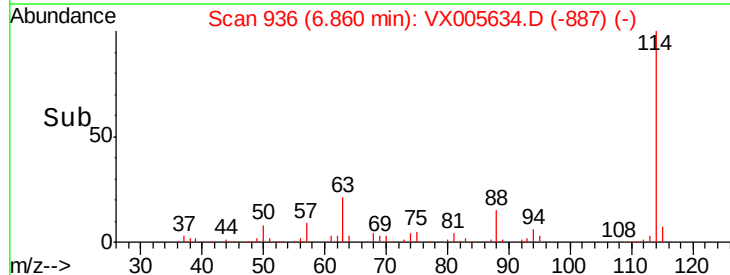
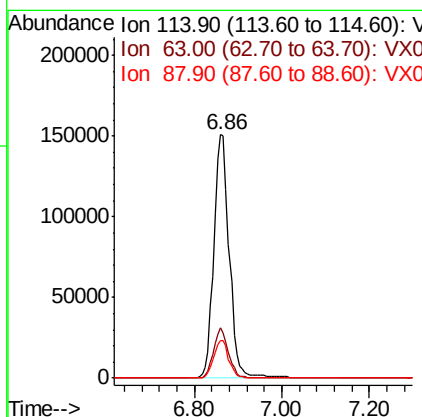
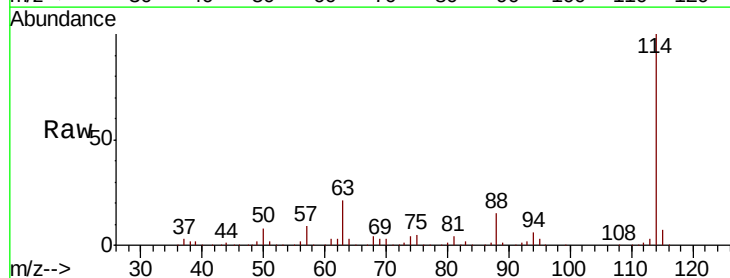
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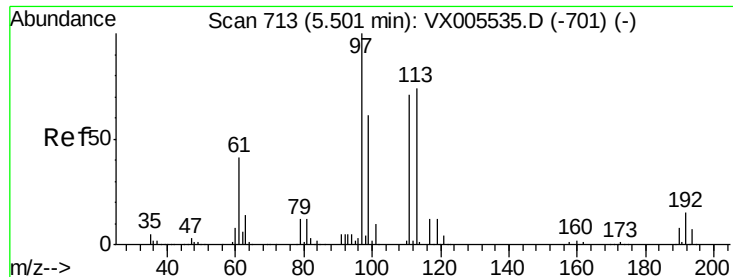
Tot Ion: 65 Resp: 151306
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005634.D
 Acq: 27 Oct 2018 05:07

Tgt Ion: 114 Resp: 372086
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.8
 88 15.3 0.0 31.2

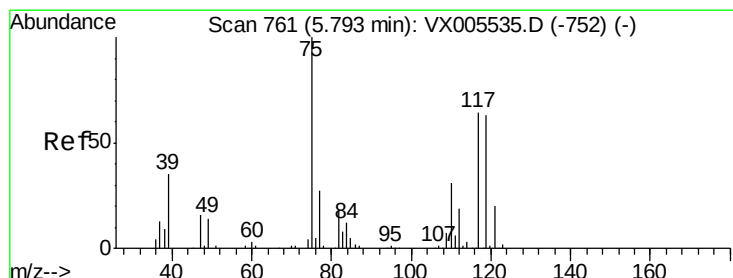
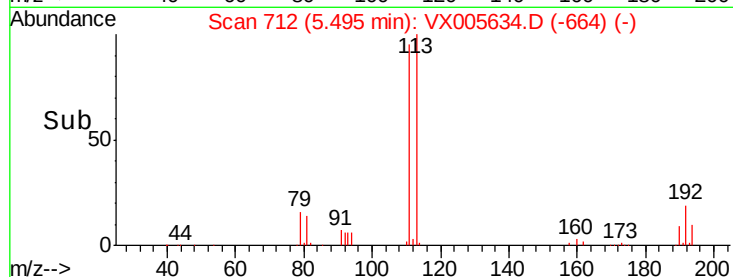
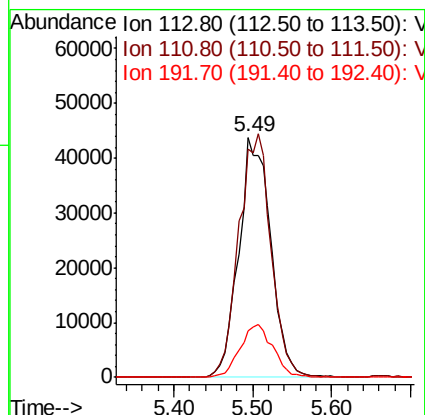
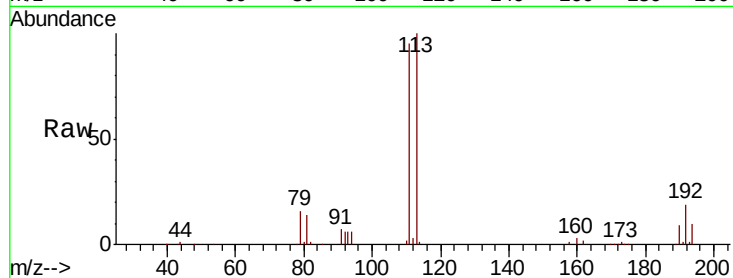




#35
 Dibromofluoromethane
 Concen: 48.940 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX005634.D
 Acq: 27 Oct 2018 05:07

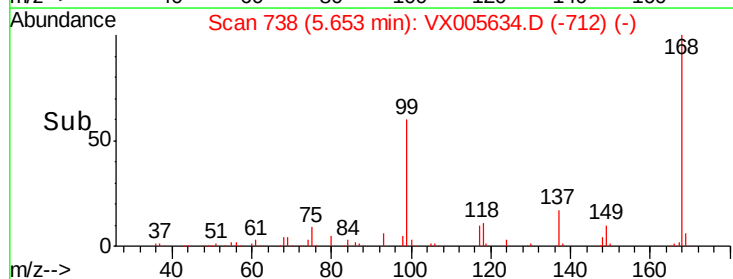
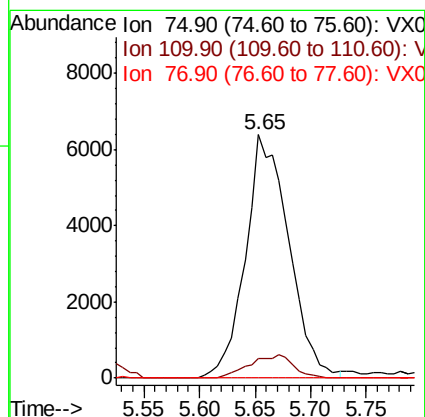
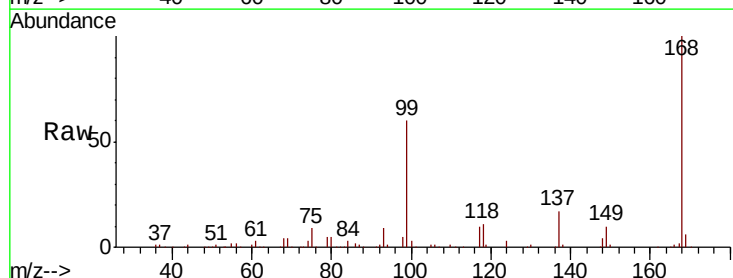
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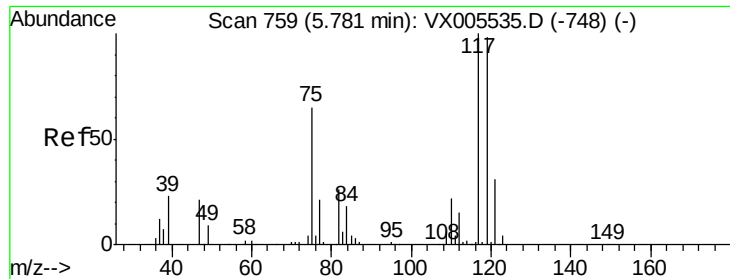
Tot Ion:113 Resp: 123301
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.3 123.5
 192 22.5 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.788 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX005634.D
 Acq: 27 Oct 2018 05:07

Tgt Ion: 75 Resp: 17289
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.4 52.2#
 77 0.0 25.8 38.6#

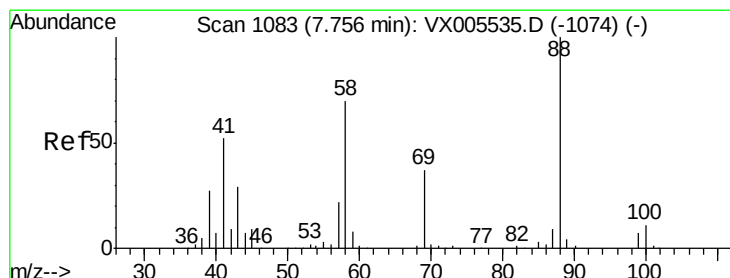
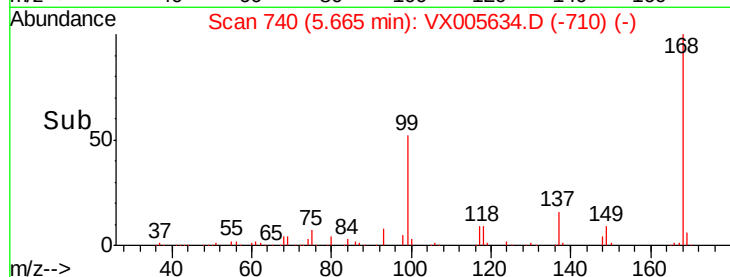
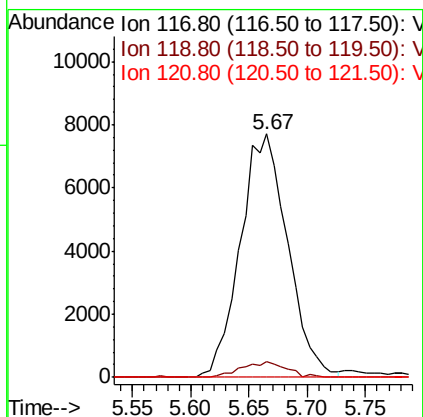
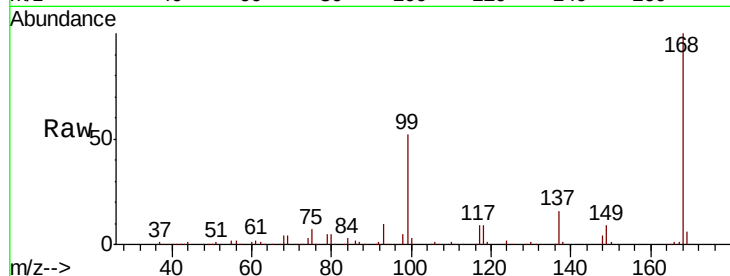




#38
Carbon Tetrachloride
Concen: 5.713 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

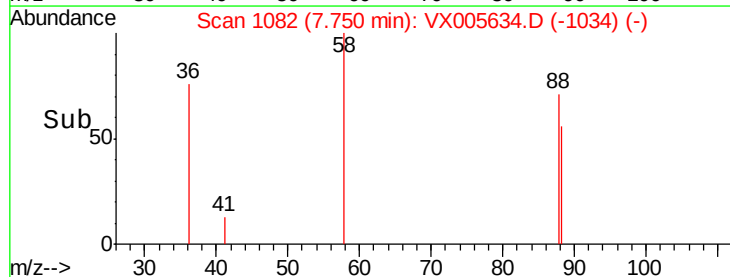
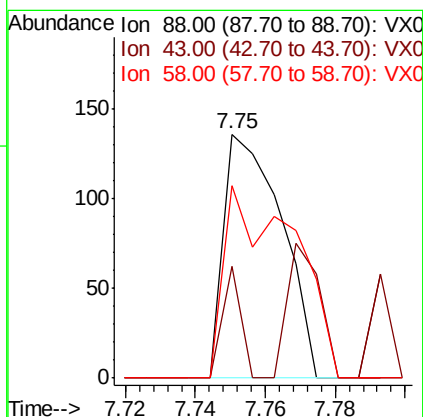
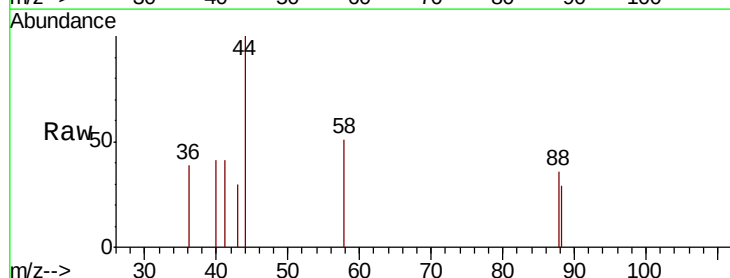
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ145D-20181024

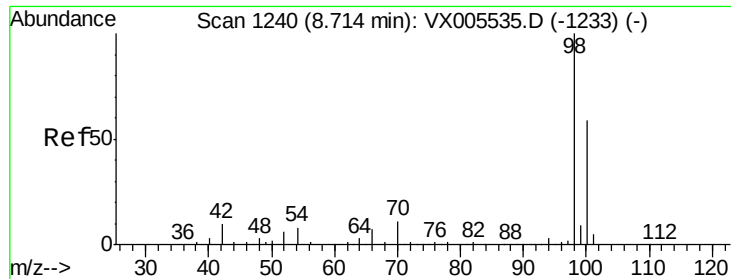
Tot Ion:117 Resp: 21729
Ion Ratio Lower Upper
117 100
119 6.5 78.1 117.1#
121 0.0 24.6 36.8#



#49
1,4-Dioxane
Concen: 2.122 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. -0.01 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

Tgt Ion: 88 Resp: 156
Ion Ratio Lower Upper
88 100
43 14.7 27.4 41.0#
58 95.5 59.4 89.2#

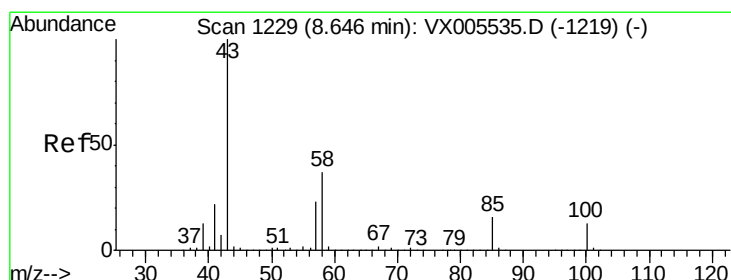
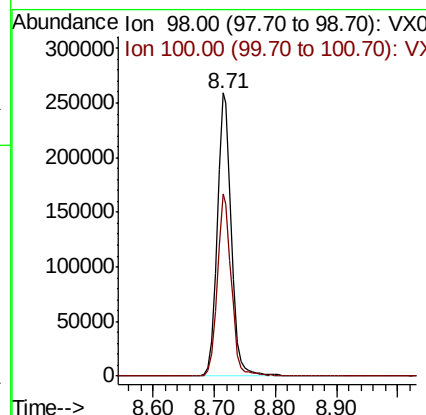
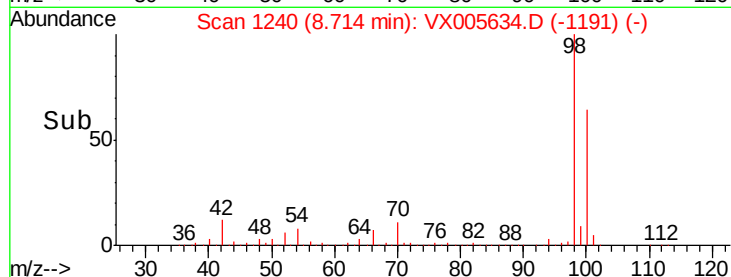
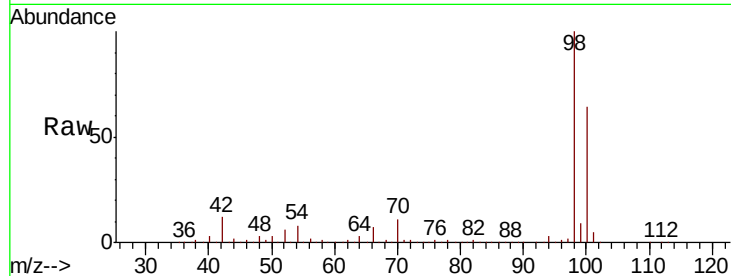




#50
Toluene-d8
Concen: 47.397 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

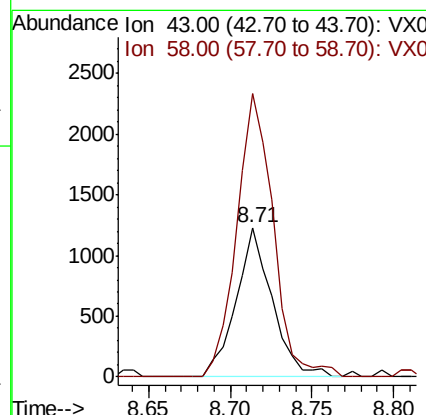
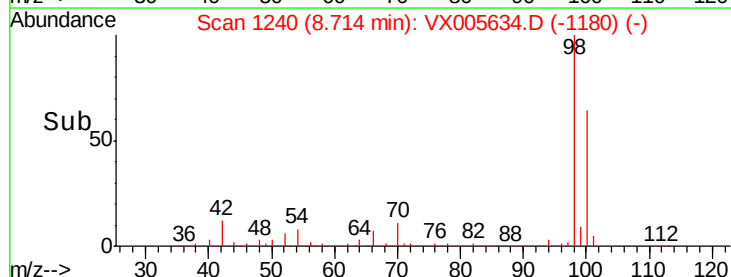
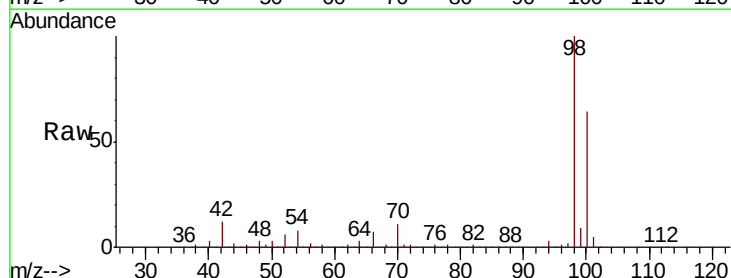
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ145D-20181024

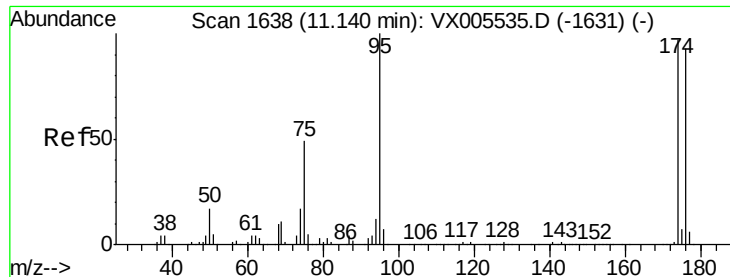
Tot Ion: 98 Resp: 429081
Ion Ratio Lower Upper
98 100
100 64.1 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.409 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.07 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

Tgt Ion: 43 Resp: 1899
Ion Ratio Lower Upper
43 100
58 191.6 29.7 44.5#





#62

4-Bromofluorobenzene

Concen: 42.401 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ145D-20181024

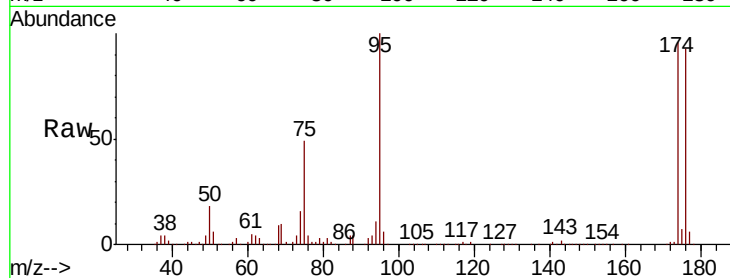
Tot Ion: 95 Resp: 144961

Ion Ratio Lower Upper

95 100

174 92.5 0.0 184.4

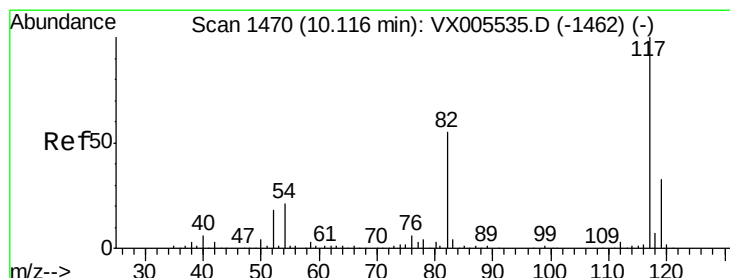
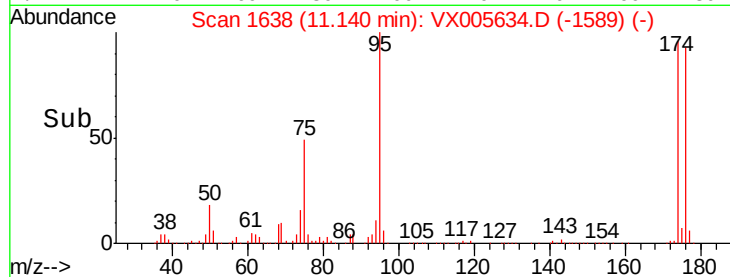
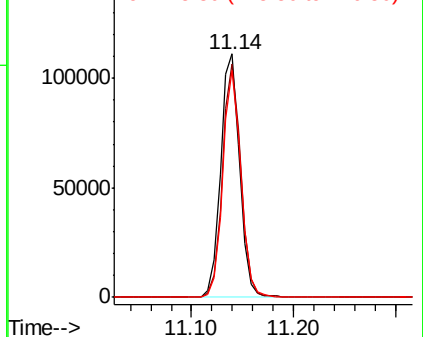
176 88.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

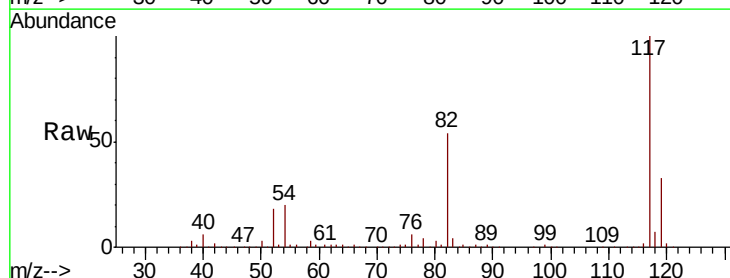
Tgt Ion: 117 Resp: 320768

Ion Ratio Lower Upper

117 100

82 53.7 44.1 66.1

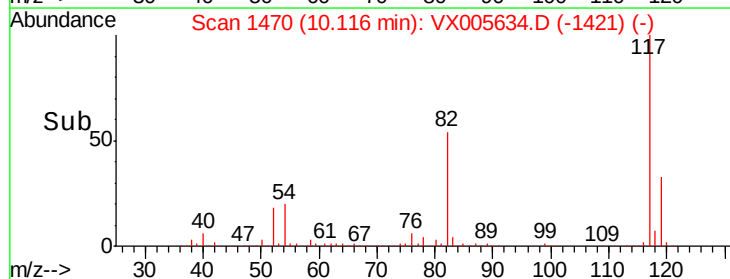
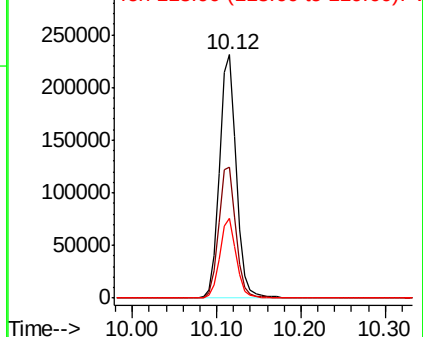
119 32.6 26.2 39.2

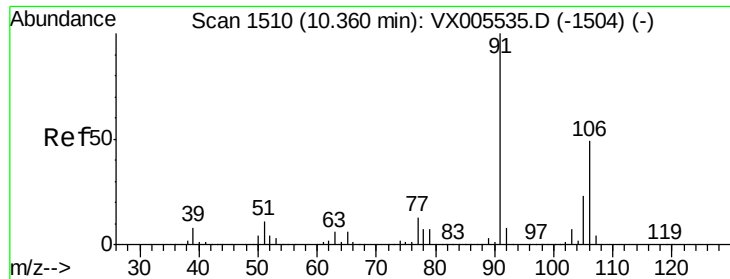


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

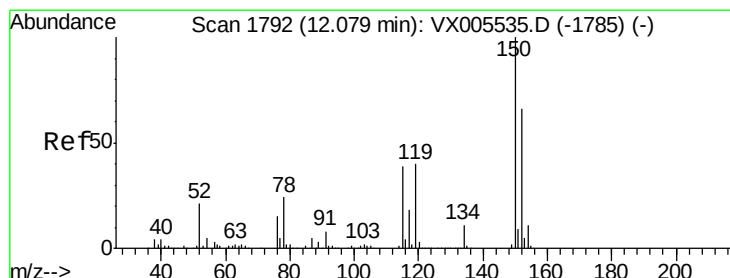
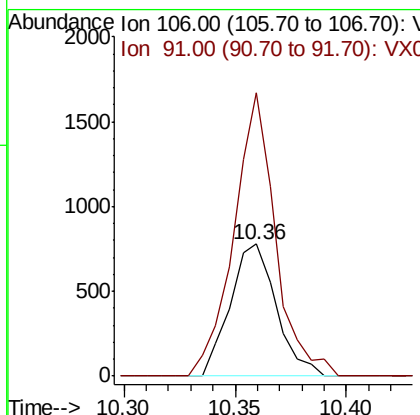
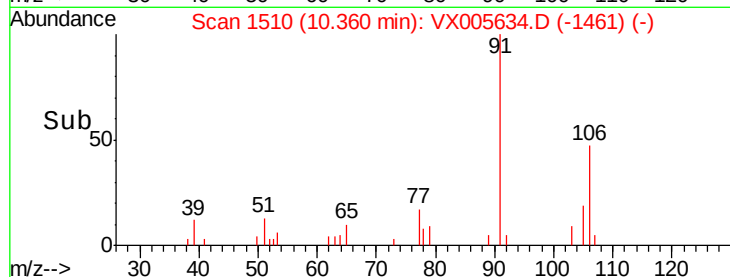
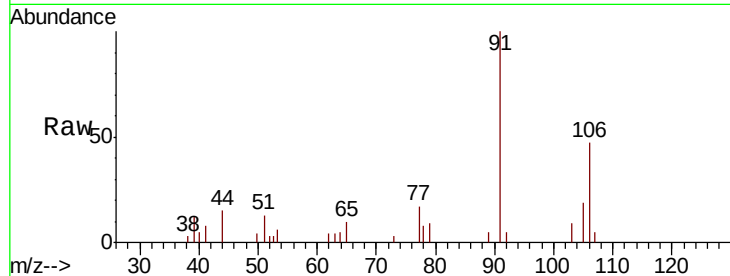




#68
m/p-Xylenes
Concen: 0.258 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

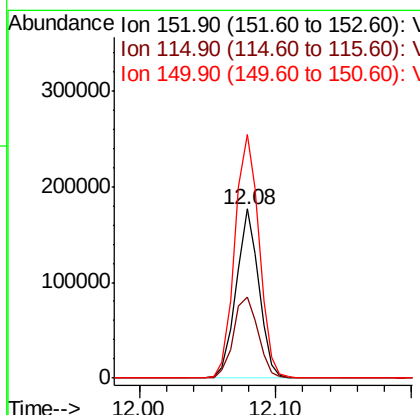
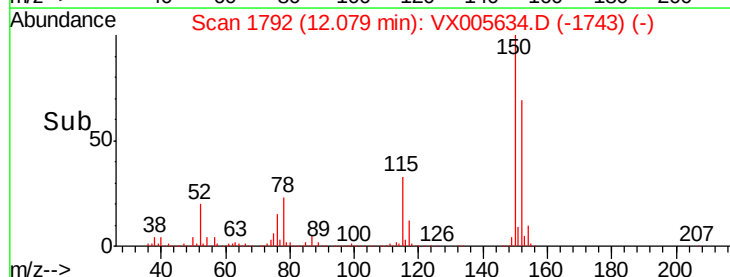
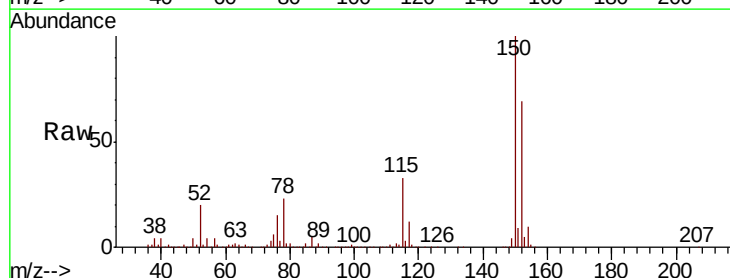
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ145D-20181024

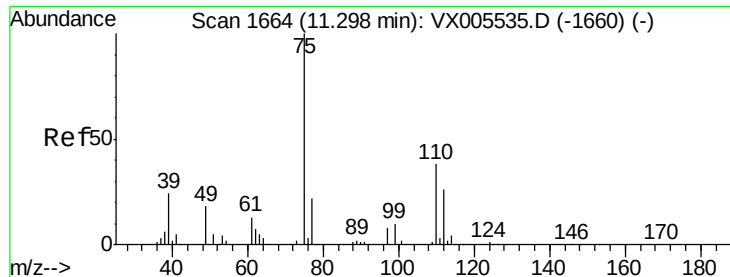
Tot Ion:106 Resp: 1125
Ion Ratio Lower Upper
106 100
91 193.3 164.2 246.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005634.D
Acq: 27 Oct 2018 05:07

Tgt Ion:152 Resp: 204453
Ion Ratio Lower Upper
152 100
115 52.3 39.4 118.1
150 154.2 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 16.408 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

Instrument :

MSVOA_X

ClientSampleId :

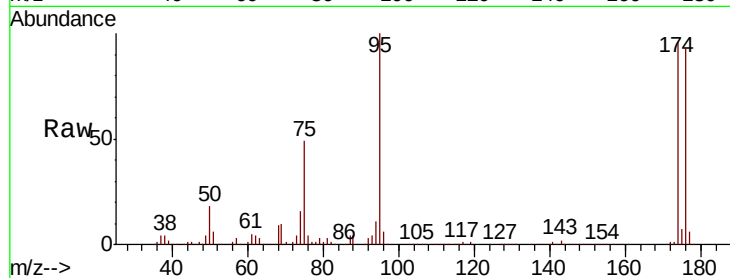
SA-PZ145D-20181024

Tot Ion: 75 Resp: 71079

Ion Ratio Lower Upper

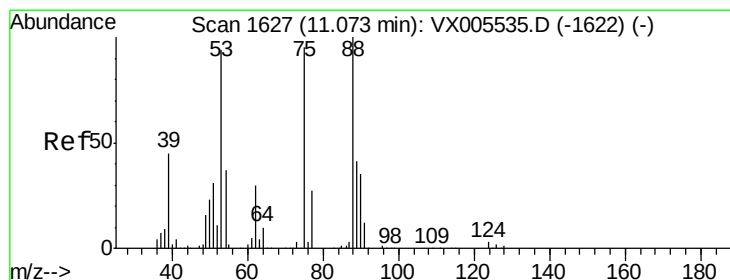
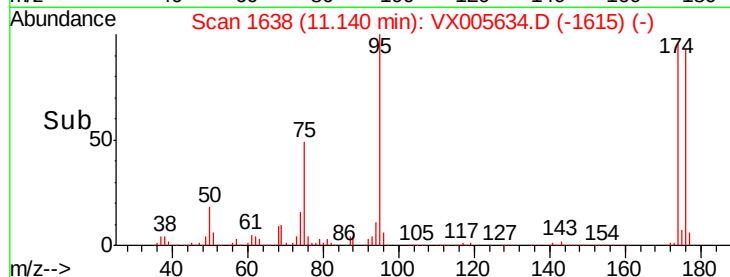
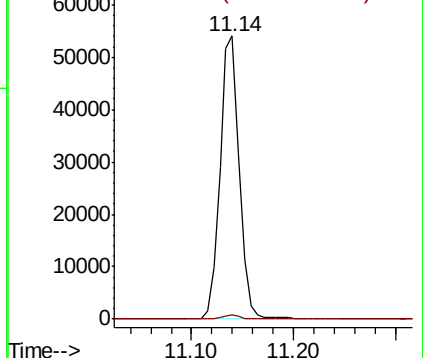
75 100

77 1.4 20.5 61.6#



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: 53.615 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005634.D

Acq: 27 Oct 2018 05:07

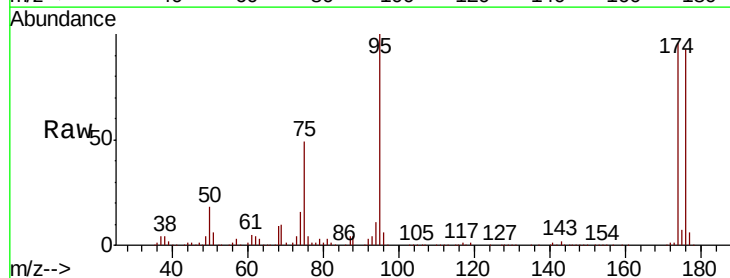
Tgt Ion: 75 Resp: 71079

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

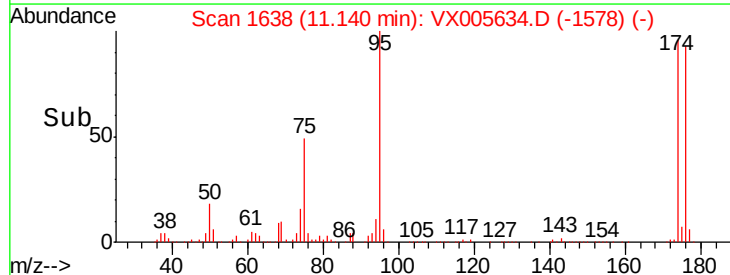
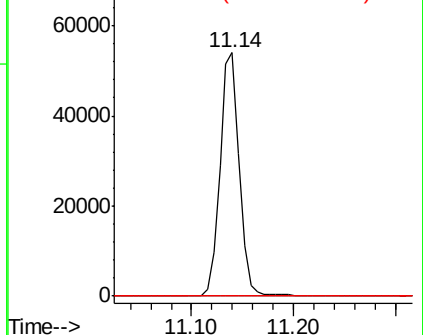
89 0.0 39.8 59.8#

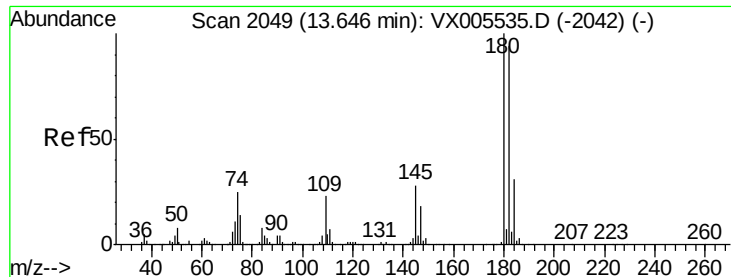


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

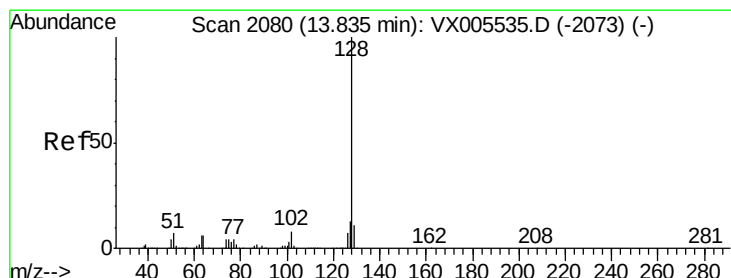
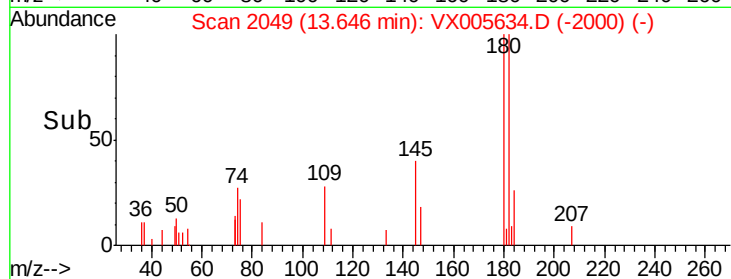
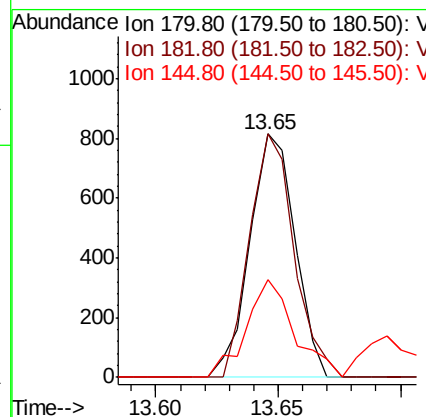
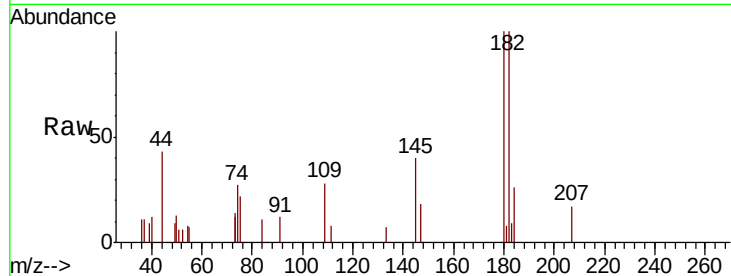




#93
 1,2,4-Trichlorobenzene
 Concen: 0.218 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005634.D
 Acq: 27 Oct 2018 05:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ145D-20181024

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.3	47.6	142.8
145	42.7	14.1	42.2#



#95
 Naphthalene
 Concen: 0.222 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX005634.D
 Acq: 27 Oct 2018 05:07

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	10.8	8.7	13.1

