

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009752.D
 Acq On : 21 May 2019 16:57
 Operator : JC/SP
 Sample : K2910-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0229

Quant Time: May 22 07:06:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	178584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	282916	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254195	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110369	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	118744	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	5.50	113	87254	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
50) Toluene-d8	8.71	98	358955	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.13	95	120585	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	

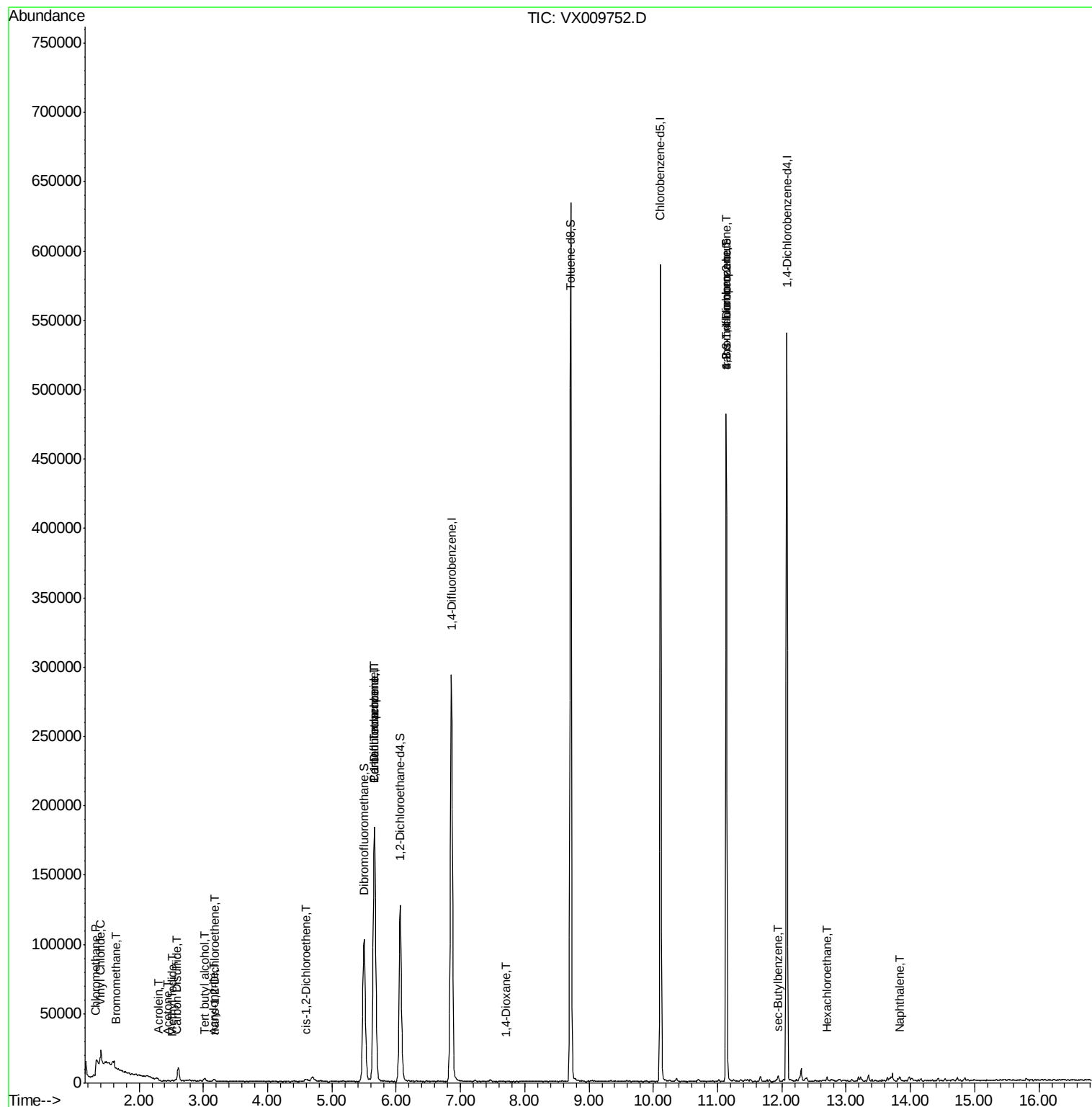
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1065	0.474	ug/l #	85
4) Vinyl Chloride	1.41	62	6226	2.842	ug/l	93
5) Bromomethane	1.65	94	466	0.354	ug/l #	49
10) Methyl Iodide	2.51	142	485	4.821	ug/l #	89
11) Tert butyl alcohol	3.02	59	1422	2.520	ug/l #	73
13) Acrolein	2.29	56	177	0.346	ug/l #	14
15) Acrylonitrile	3.16	53	391	0.283	ug/l #	91
16) Acetone	2.44	43	872	0.666	ug/l #	83
17) Carbon Disulfide	2.57	76	1795	0.382	ug/l	98
21) trans-1,2-Dichloroethene	3.18	96	406	0.223	ug/l #	80
27) cis-1,2-Dichloroethene	4.60	96	1234	0.569	ug/l	93
28) Bromochloromethane	5.03	49	91	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	14071	5.352	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16617	6.956	ug/l #	16
49) 1,4-Dioxane	7.70	88	20	0.339	ug/l #	20
76) 1,2,3-Trichloropropane	11.13	75	62717	24.497	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62717	62.680	ug/l #	10
85) sec-Butylbenzene	11.94	105	1927	0.247	ug/l	91
90) Hexachloroethane	12.70	117	798	0.669	ug/l #	7
95) Naphthalene	13.83	128	1831	0.228	ug/l #	93

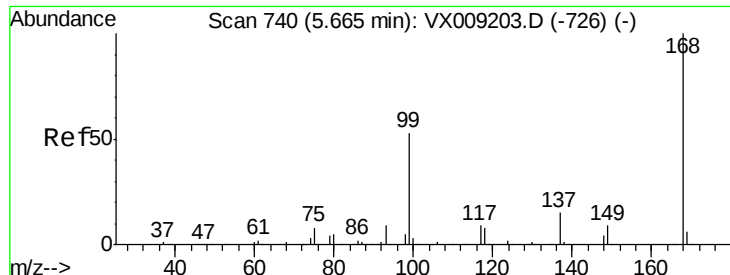
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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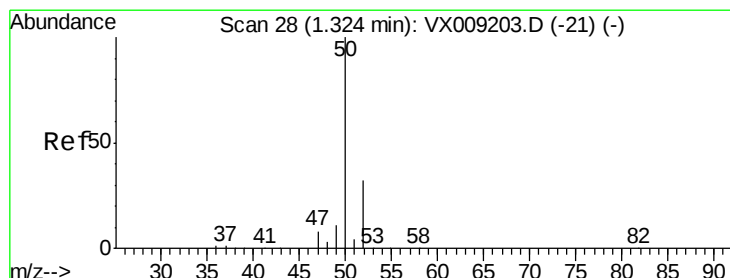
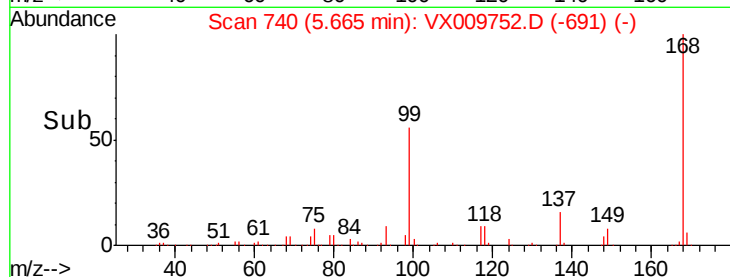
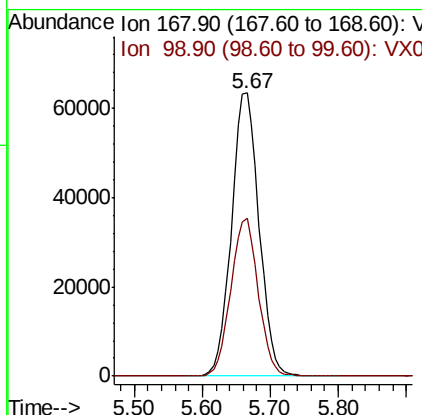
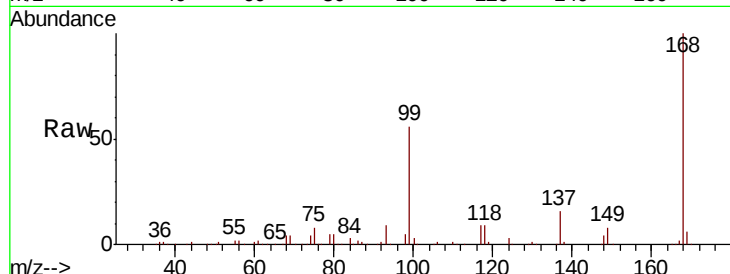




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.00 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

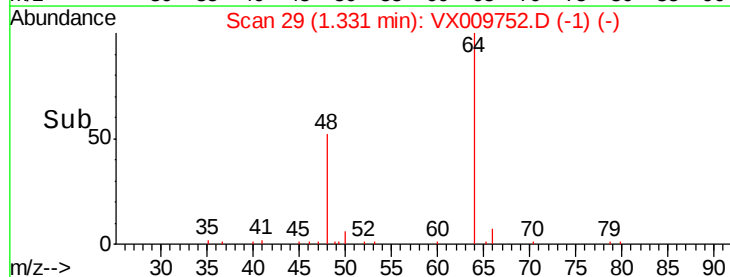
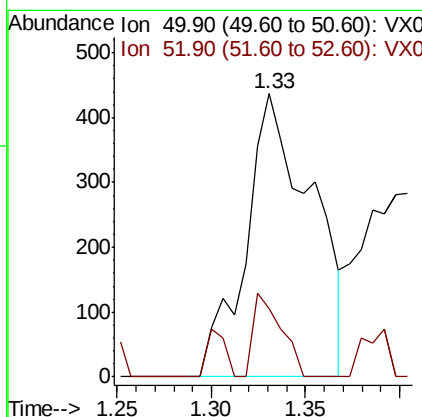
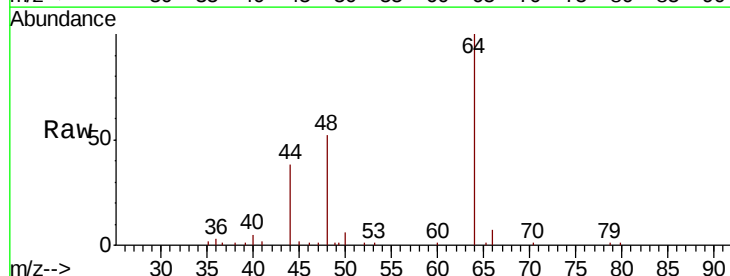
Instrument :
MSVOA_X
ClientSampleId :
S73-0229

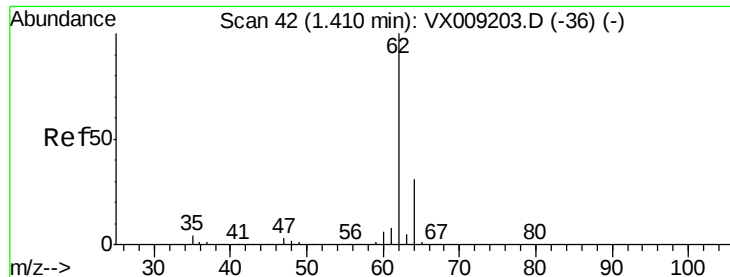
Tot Ion:168 Resp: 178584
Ion Ratio Lower Upper
168 100
99 55.7 42.3 63.5



#3
Chloromethane
Concen: 0.474 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.01 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

Tgt Ion: 50 Resp: 1065
Ion Ratio Lower Upper
50 100
52 24.3 25.9 38.9#





#4

Vinyl Chloride

Concen: 2.842 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

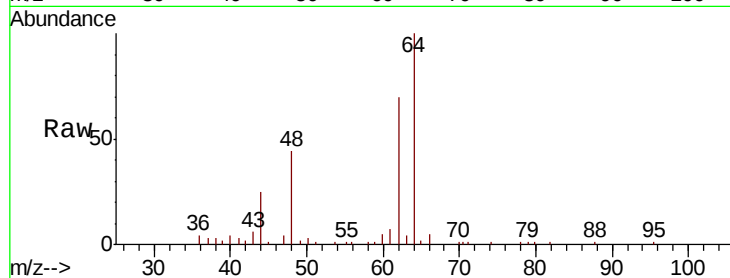
S73-0229

Tot Ion: 62 Resp: 6226

Ion Ratio Lower Upper

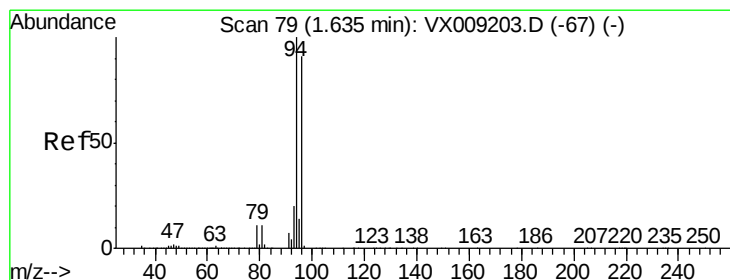
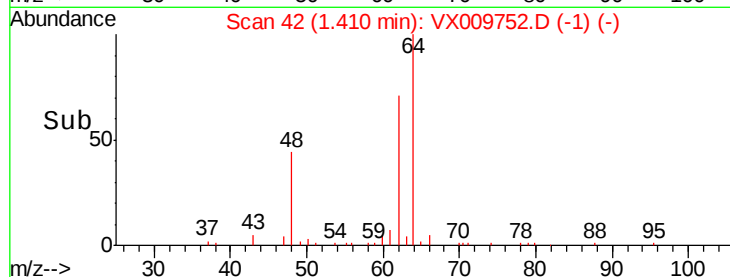
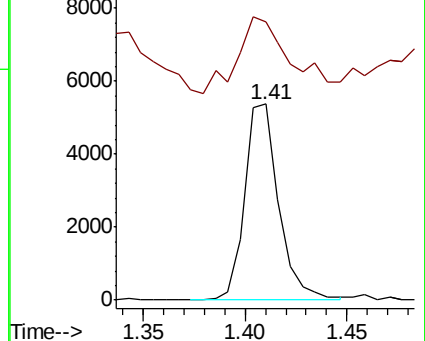
62 100

64 34.5 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.354 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009752.D

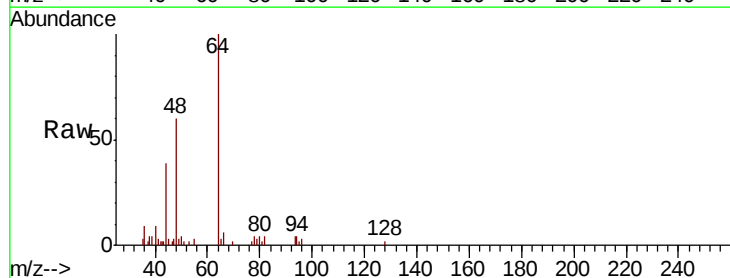
Acq: 21 May 2019 16:57

Tgt Ion: 94 Resp: 466

Ion Ratio Lower Upper

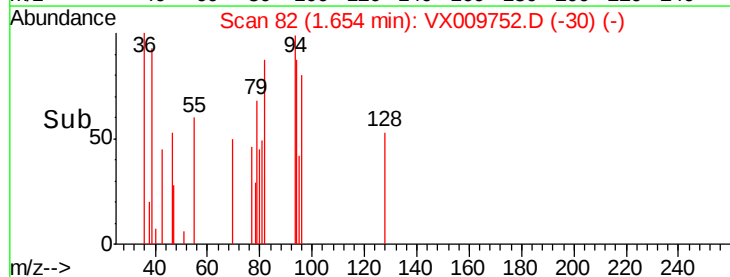
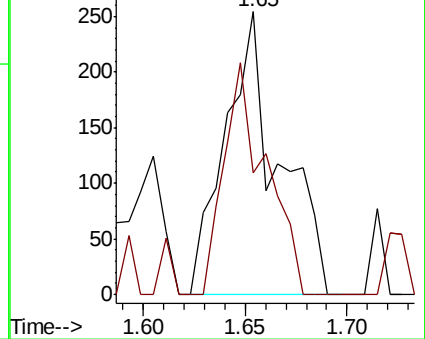
94 100

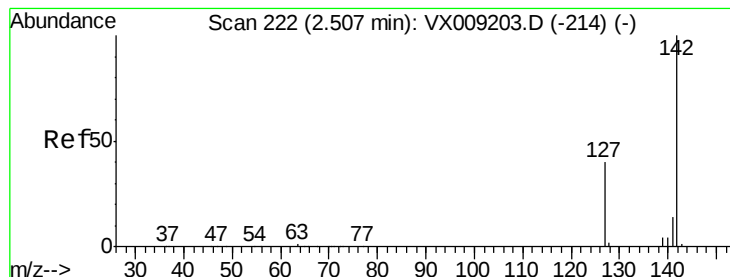
96 42.9 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

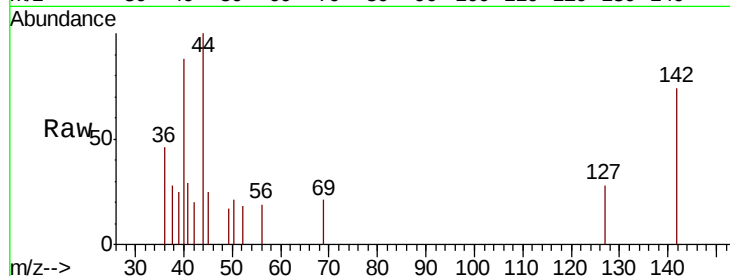




#10
Methvl Iodide
Concen: 4.821 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

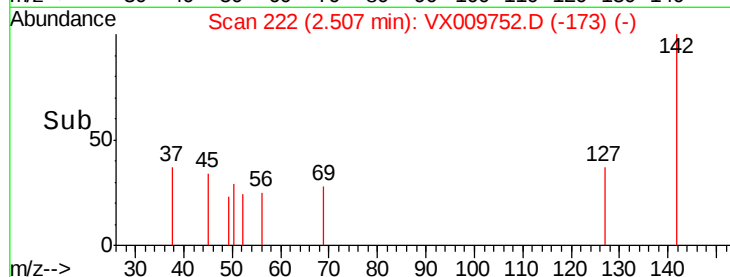
Instrument :
MSVOA_X
ClientSampleId :
S73-0229

Tot Ion:142 Resp: 485
Ion Ratio Lower Upper
142 100
127 42.5 32.7 49.1
141 0.0 11.5 17.3#

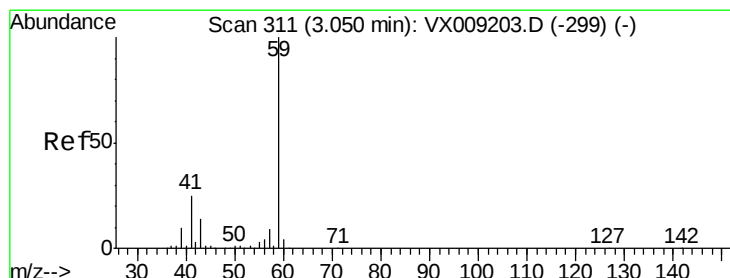


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

2.51

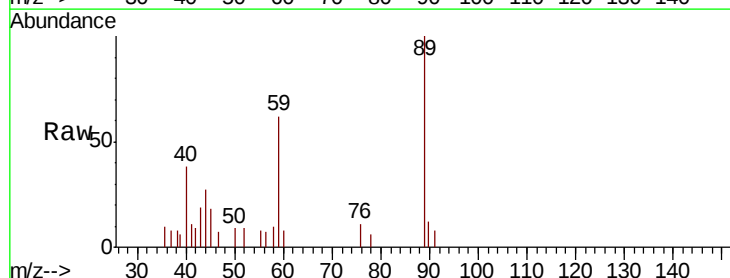


Time--> 2.45 2.50 2.55



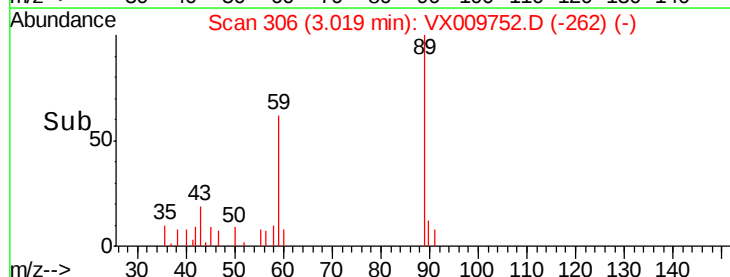
#11
Tert butyl alcohol
Concen: 2.520 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

Tgt Ion: 59 Resp: 1422
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

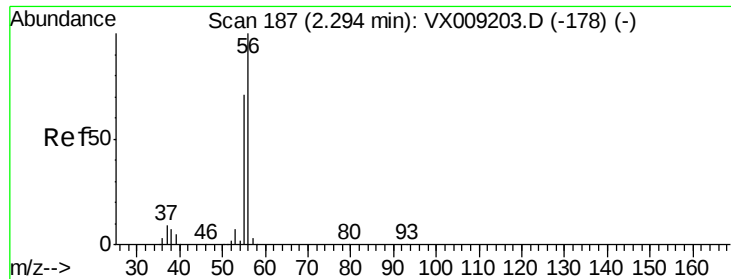


Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

3.02



Time--> 2.95 3.00 3.05 3.10



#13

Acrolein

Concen: 0.346 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

Instrument :

MSVOA_X

ClientSampled :

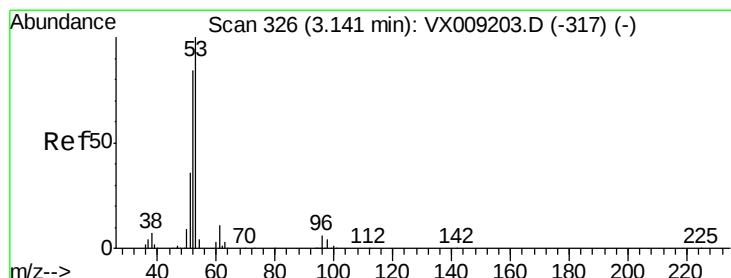
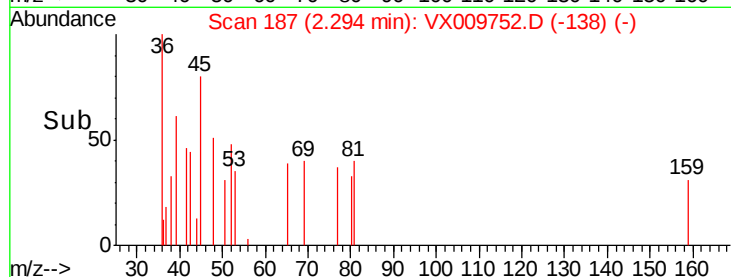
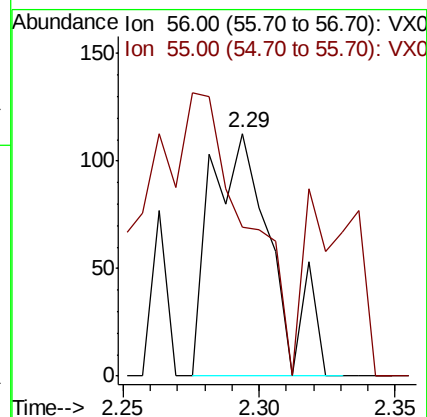
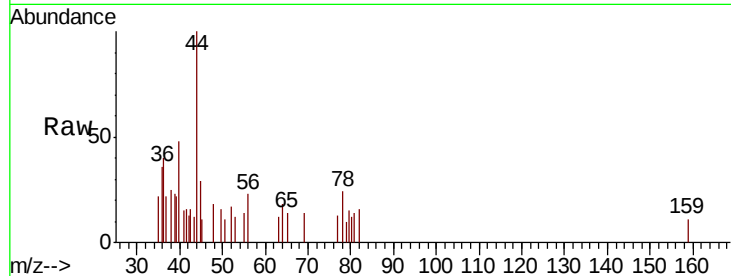
S73-0229

Tot Ion: 56 Resp: 177

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



#15

Acrylonitrile

Concen: 0.283 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

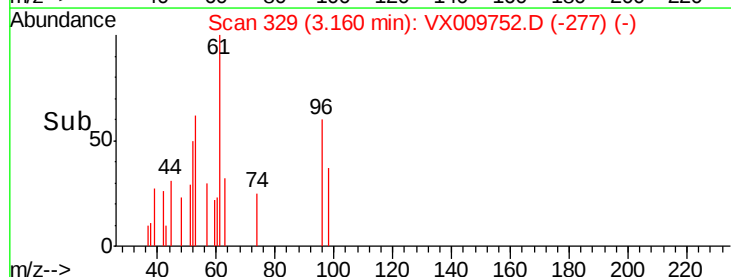
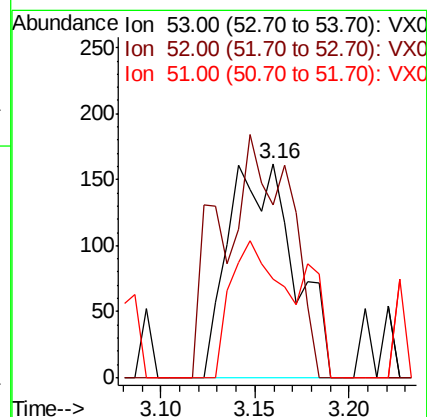
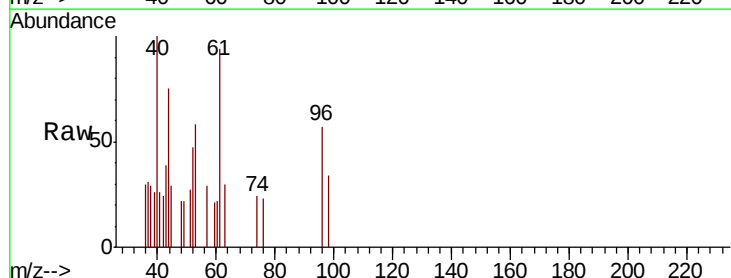
Tgt Ion: 53 Resp: 391

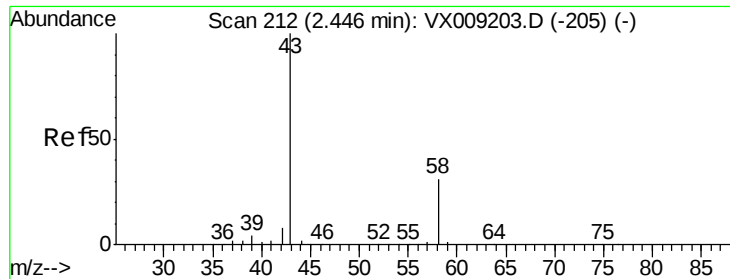
Ion Ratio Lower Upper

53 100

52 85.4 66.9 100.3

51 50.6 28.2 42.2#





#16

Acetone

Concen: 0.666 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

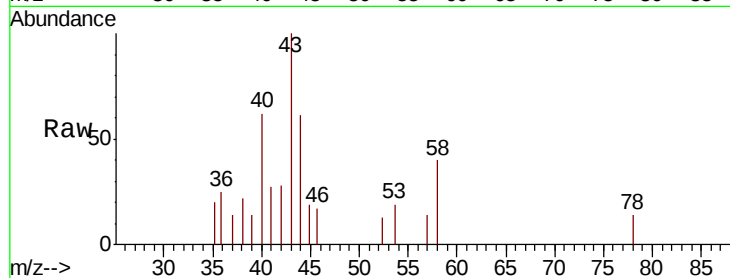
S73-0229

Tot Ion: 43 Resp: 872

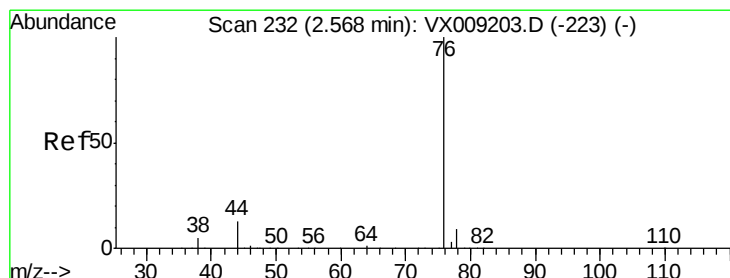
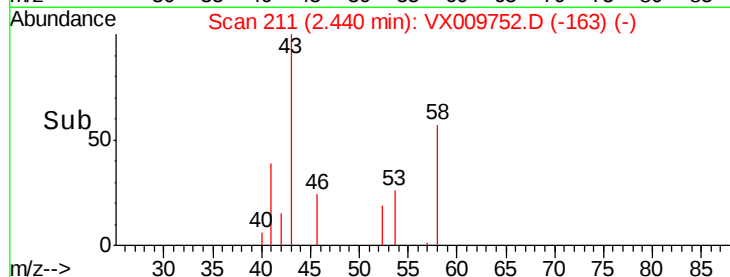
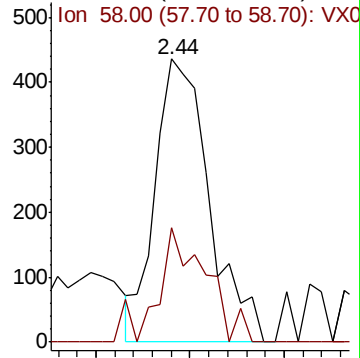
Ion Ratio Lower Upper

43 100

58 40.4 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 0.382 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009752.D

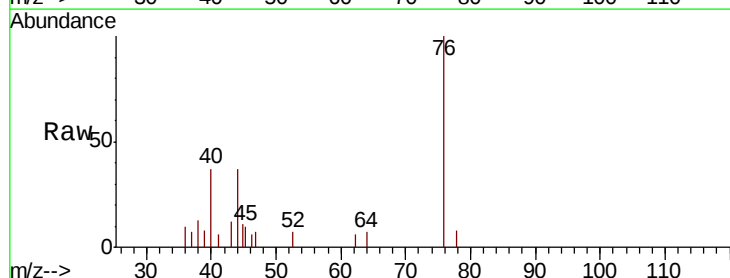
Acq: 21 May 2019 16:57

Tgt Ion: 76 Resp: 1795

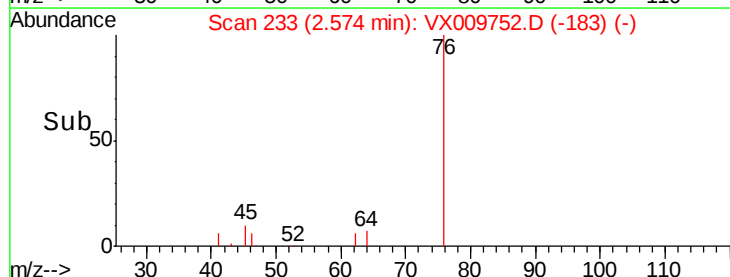
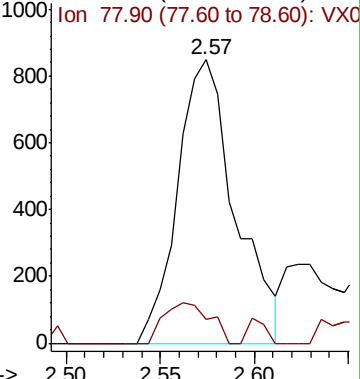
Ion Ratio Lower Upper

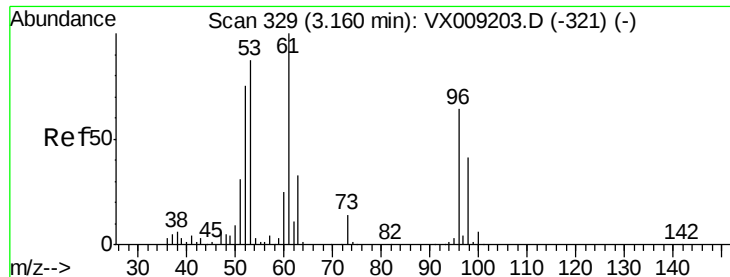
76 100

78 8.5 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.223 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.02 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

S73-0229

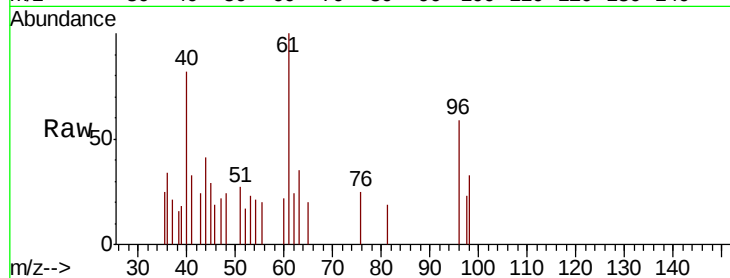
Tot Ion: 96 Resp: 406

Ion Ratio Lower Upper

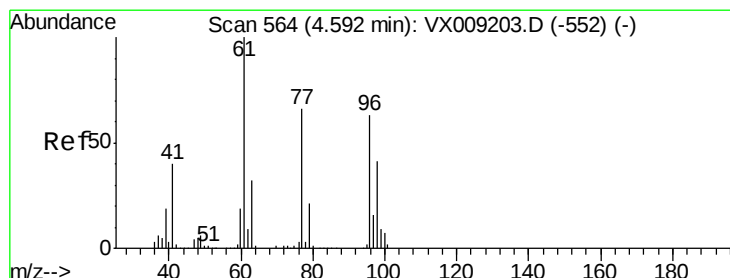
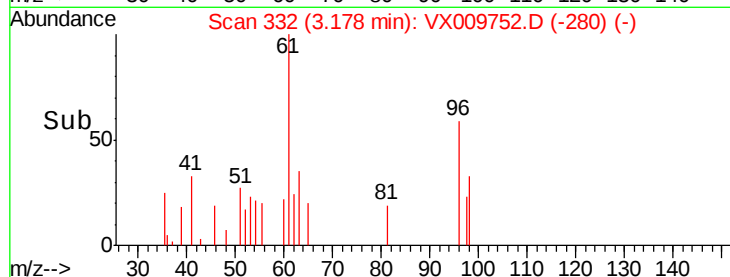
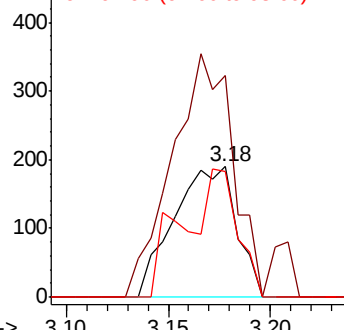
96 100

61 170.0 124.5 186.7

98 95.8 50.4 75.6#



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



#27

cis-1,2-Dichloroethene

Concen: 0.569 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

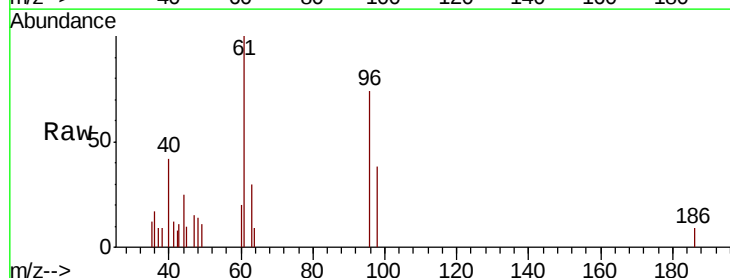
Tgt Ion: 96 Resp: 1234

Ion Ratio Lower Upper

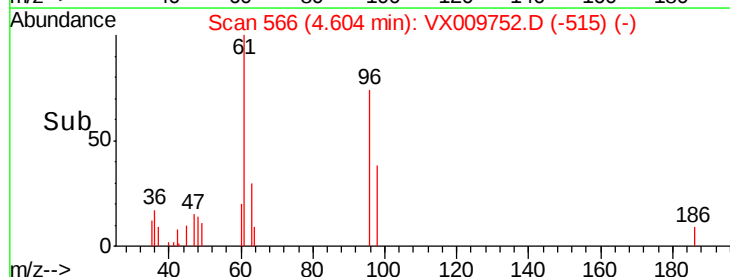
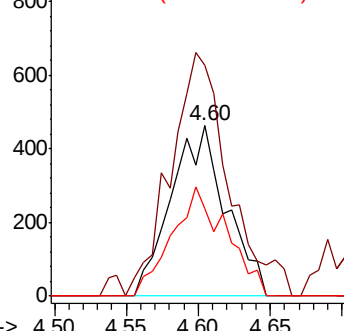
96 100

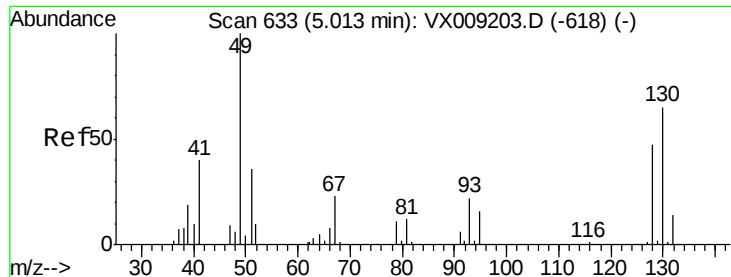
61 149.8 0.0 324.0

98 63.2 0.0 130.4



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

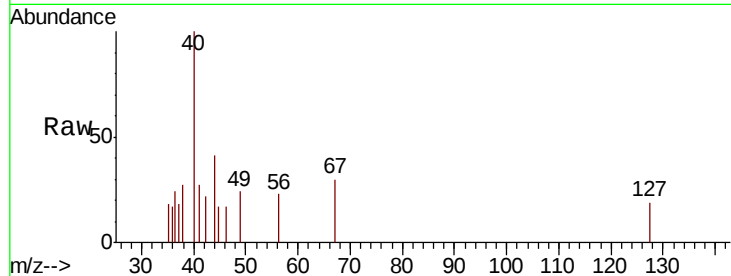
Delta R.T. 0.01 min

Lab File: VX009752.D

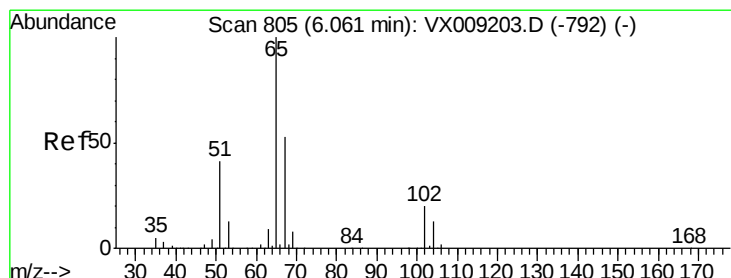
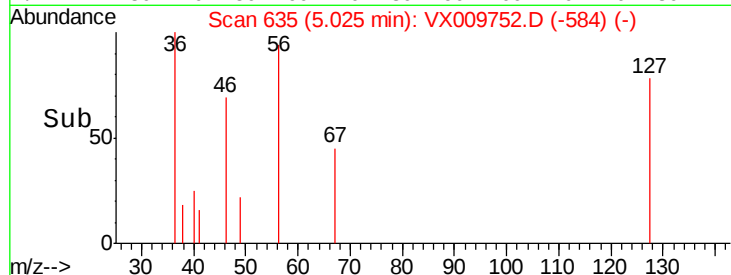
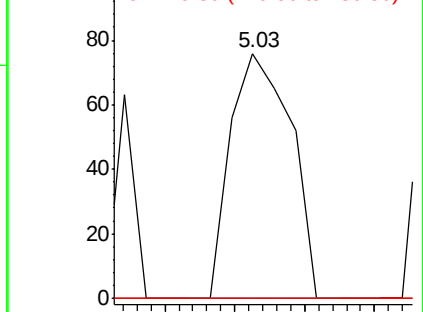
Acq: 21 May 2019 16:57

Instrument :
MSVOA_X
ClientSampled :
S73-0229

Tot Ion: 49 Resp: 91
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 48.708 ug/l

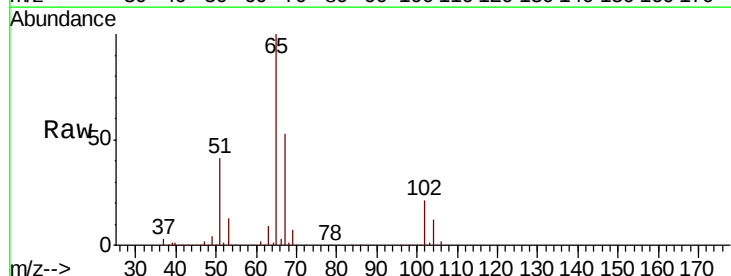
RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

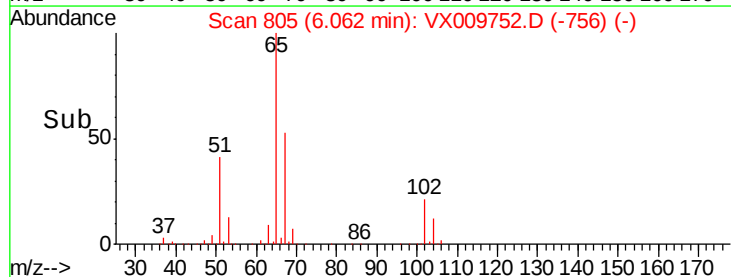
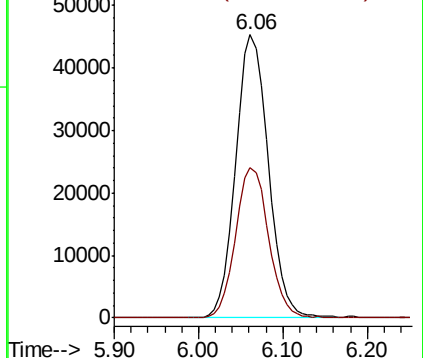
Lab File: VX009752.D

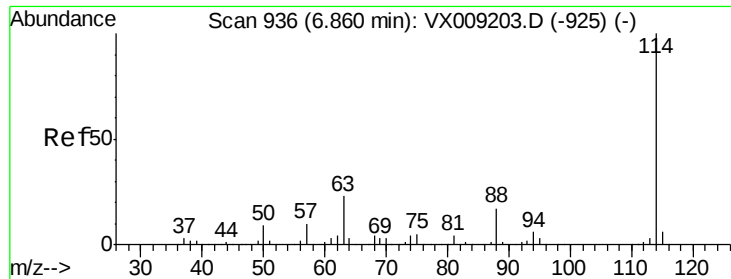
Acq: 21 May 2019 16:57

Tgt Ion: 65 Resp: 118744
Ion Ratio Lower Upper
65 100
67 53.8 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

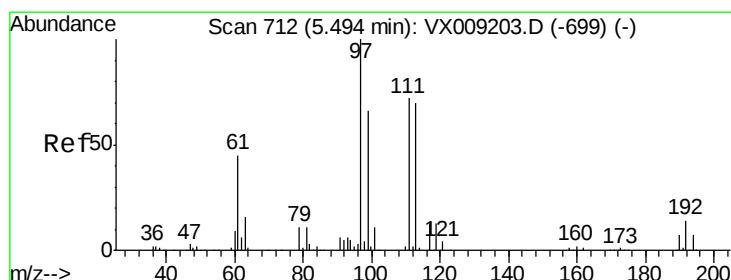
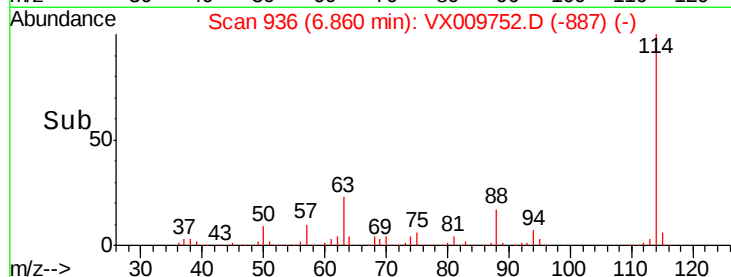
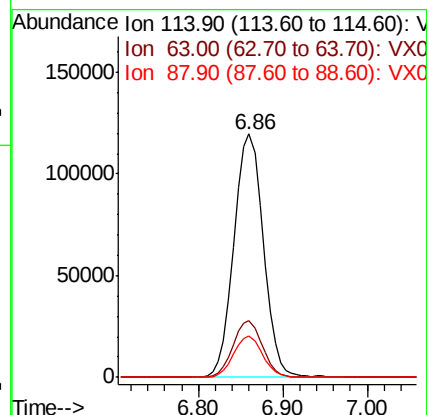
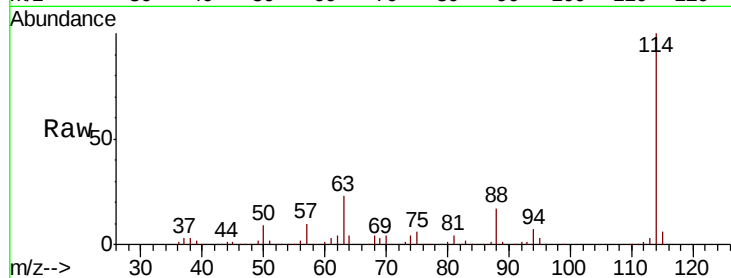




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009752.D
 Acq: 21 May 2019 16:57

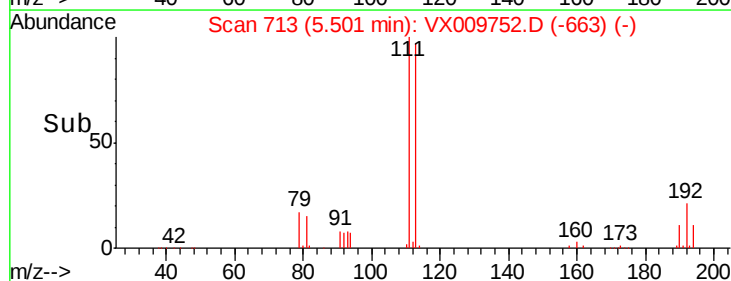
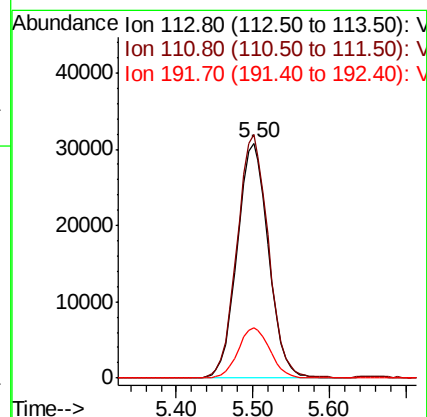
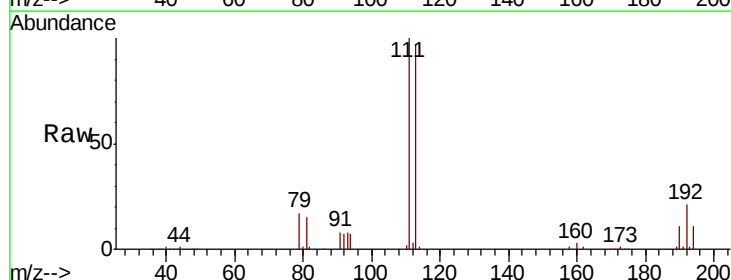
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0229

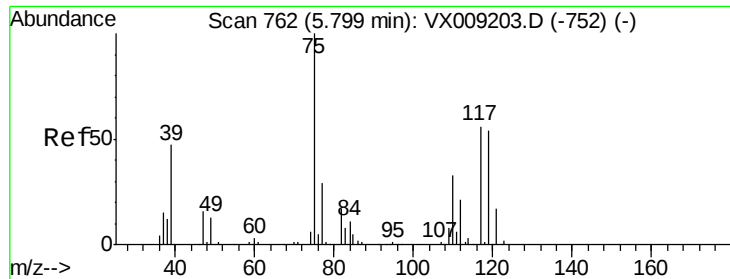
Tot Ion:114 Resp: 282916
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.6
 88 16.9 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 49.060 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009752.D
 Acq: 21 May 2019 16:57

Tgt Ion:113 Resp: 87254
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.8 124.2
 192 21.8 17.0 25.6

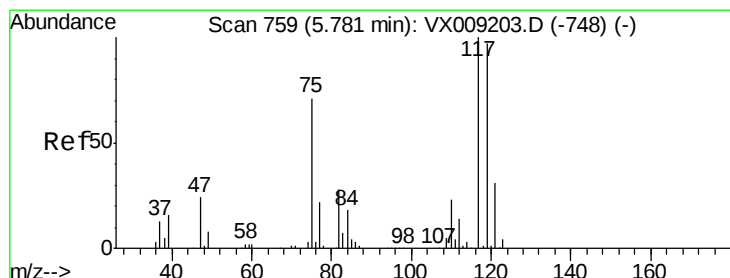
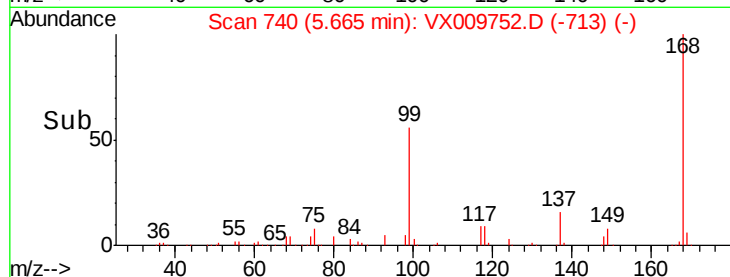
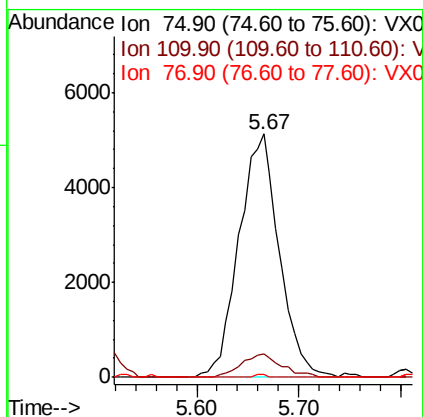
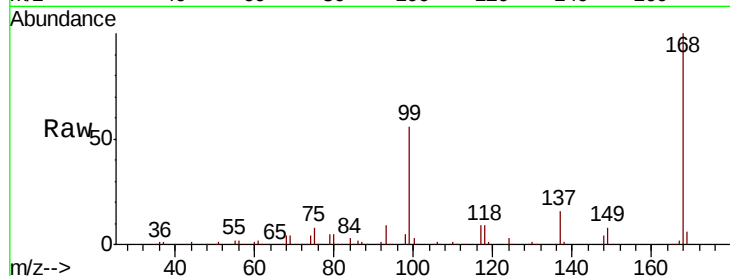




#36
 1,1-Dichloropropene
 Concen: 5.352 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009752.D
 Acq: 21 May 2019 16:57

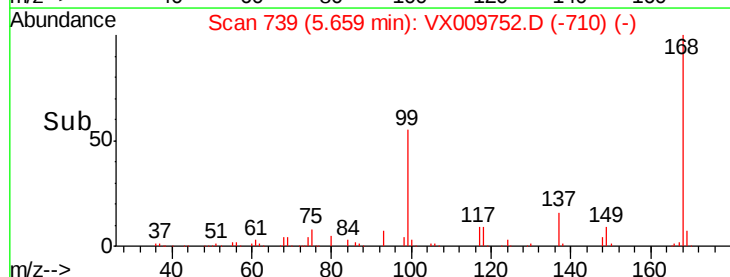
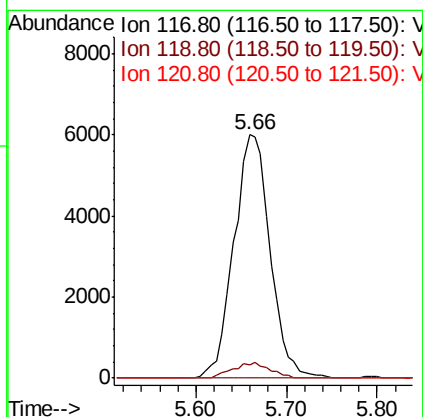
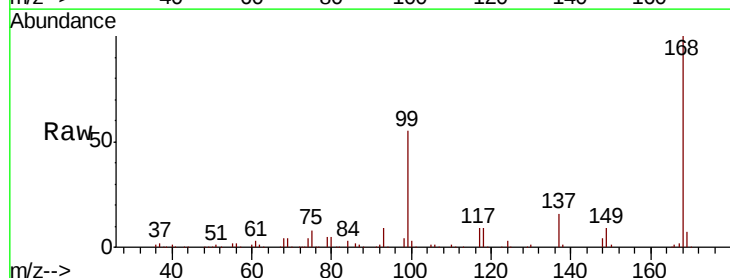
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0229

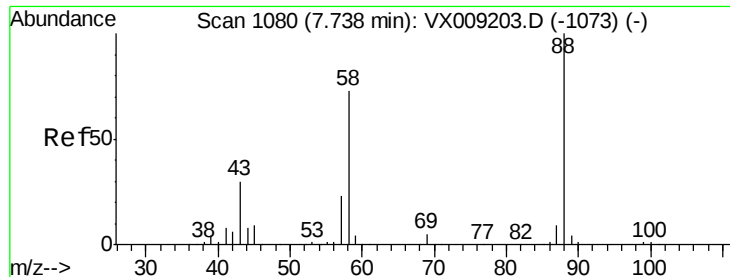
Tot Ion	75	Resp	14071
Ion Ratio	Lower	Upper	
75	100		
110	9.7	16.9	50.6#
77	0.3	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.956 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009752.D
 Acq: 21 May 2019 16:57

Tgt Ion	117	Resp	16617
Ion Ratio	Lower	Upper	
117	100		
119	5.2	77.5	116.3#
121	0.0	24.7	37.1#

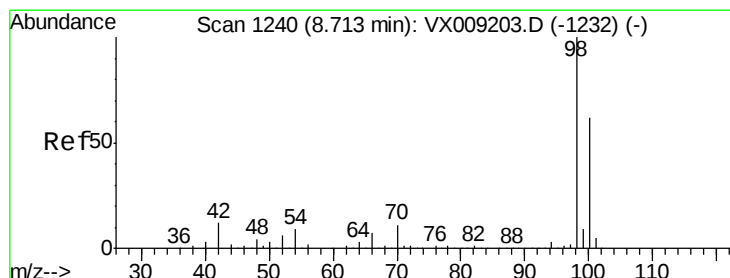
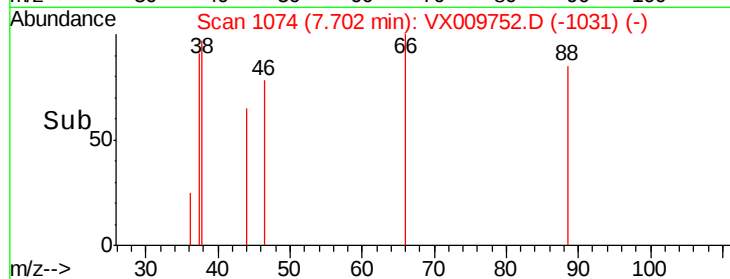
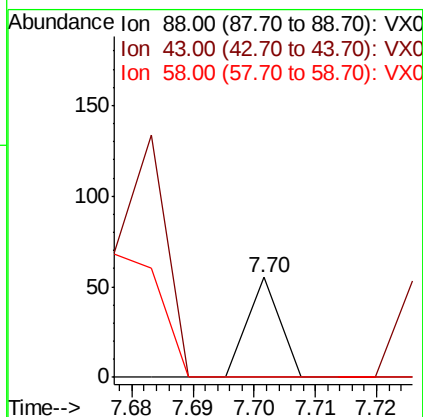
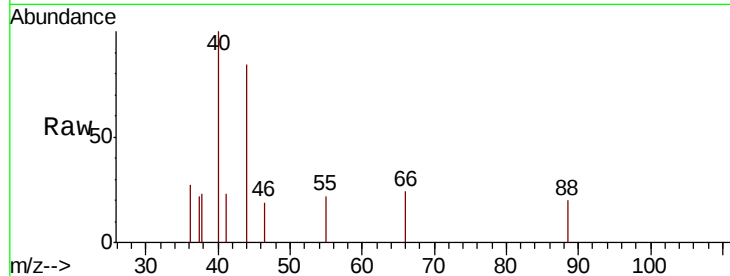




#49
 1,4-Dioxane
 Concen: 0.339 ug/l
 RT: 7.70 min Scan# 1074
 Delta R.T. -0.04 min
 Lab File: VX009752.D
 Acq: 21 May 2019 16:57

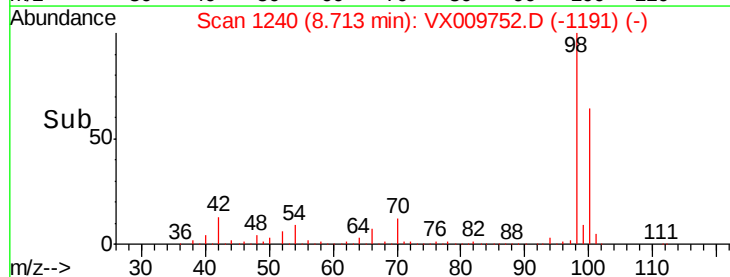
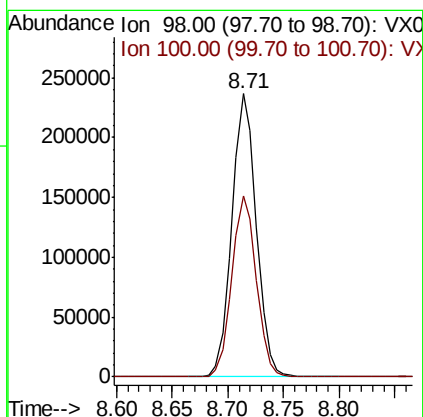
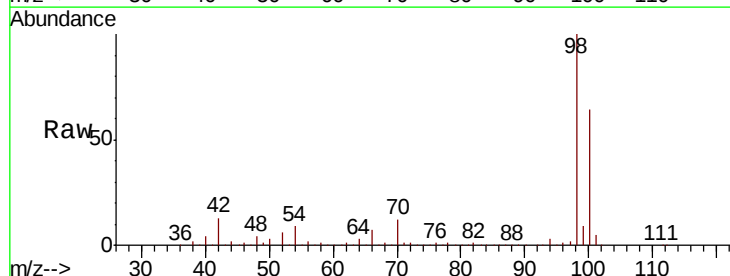
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0229

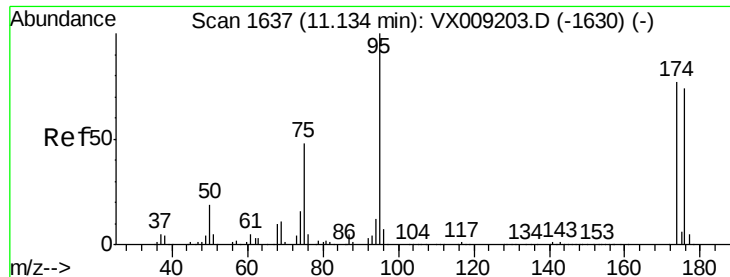
Tot Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 0.0 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 49.991 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009752.D
 Acq: 21 May 2019 16:57

Tgt Ion: 98 Resp: 358955
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.2 76.8





#62

4-Bromofluorobenzene

Concen: 46.218 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

Instrument :

MSVOA_X

ClientSampled :

S73-0229

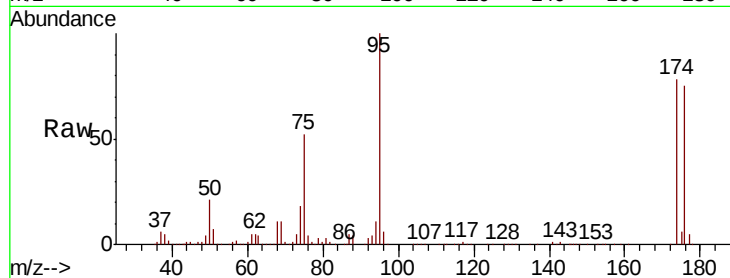
Tot Ion: 95 Resp: 120585

Ion Ratio Lower Upper

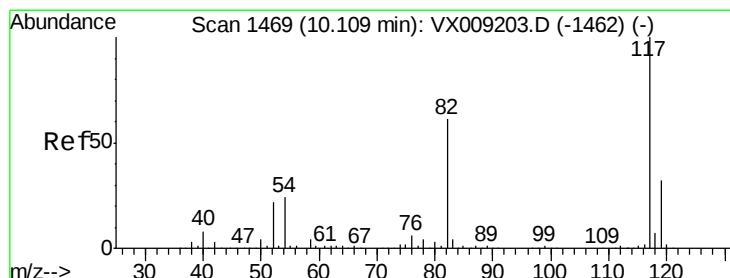
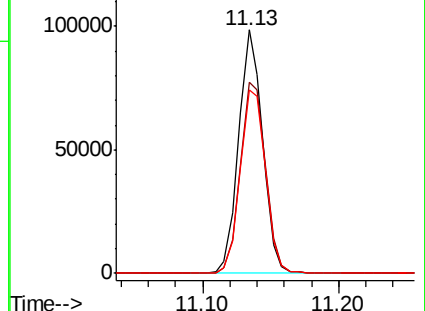
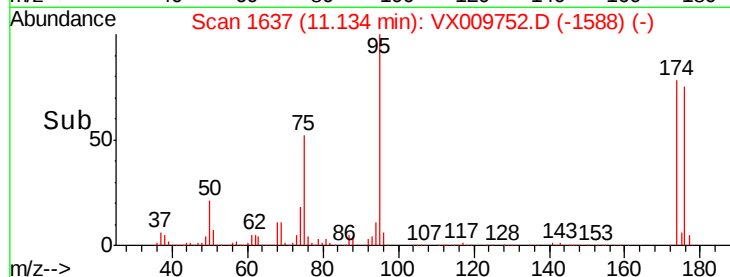
95 100

174 82.6 0.0 161.6

176 80.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009752.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

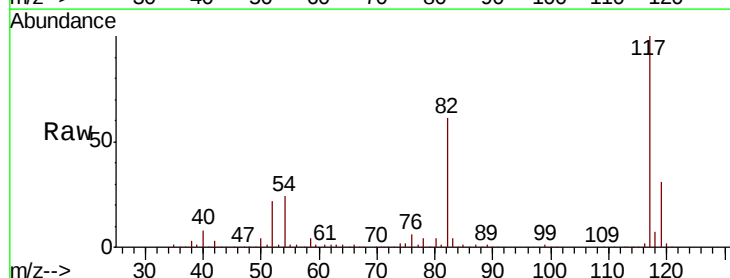
Tgt Ion: 117 Resp: 254195

Ion Ratio Lower Upper

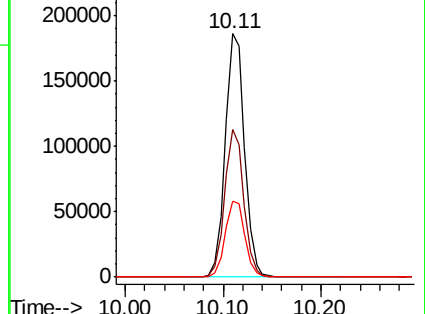
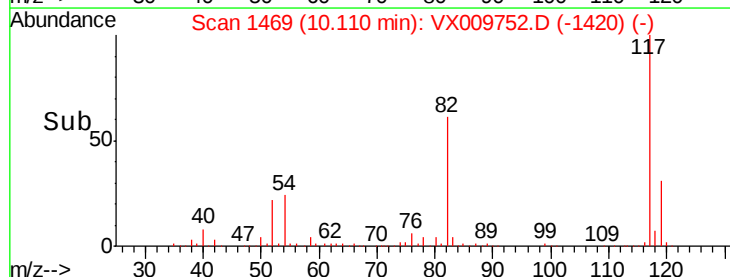
117 100

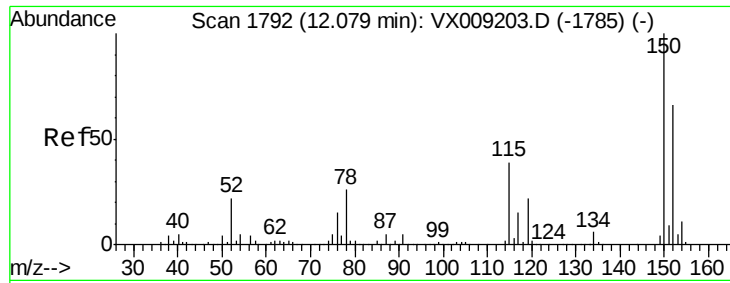
82 60.8 48.8 73.2

119 31.1 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX009752.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009752.D

Acq: 21 May 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

S73-0229

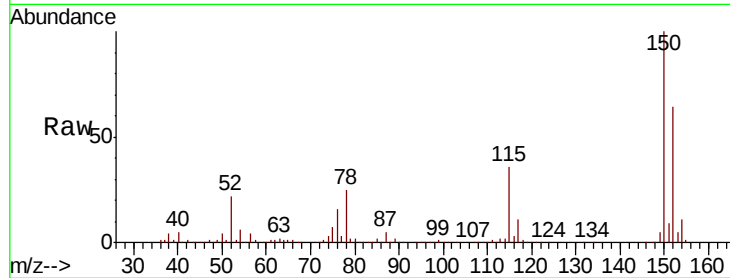
Tot Ion:152 Resp: 110369

Ion Ratio Lower Upper

152 100

115 58.8 41.2 123.6

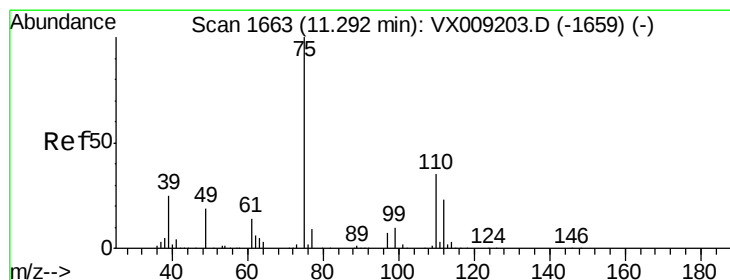
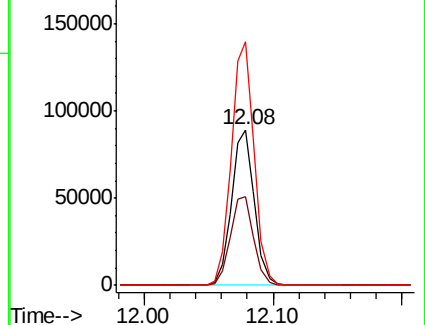
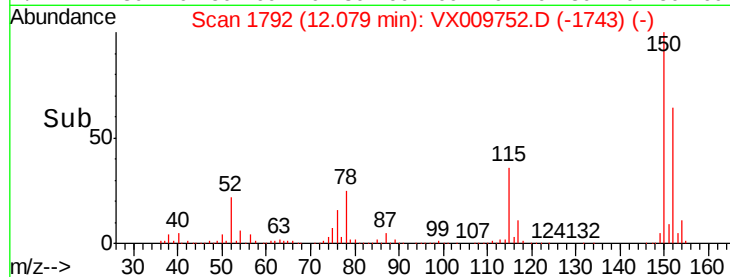
150 157.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.497 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009752.D

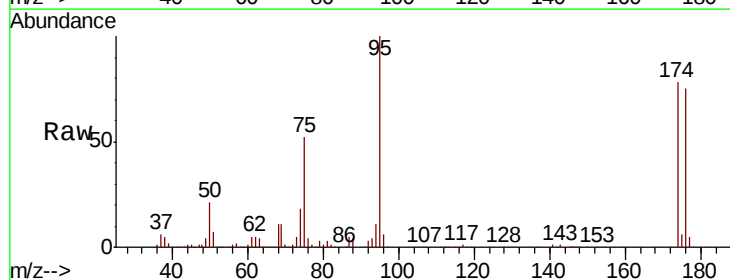
Acq: 21 May 2019 16:57

Tgt Ion: 75 Resp: 62717

Ion Ratio Lower Upper

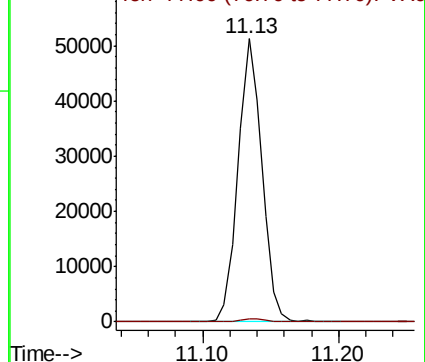
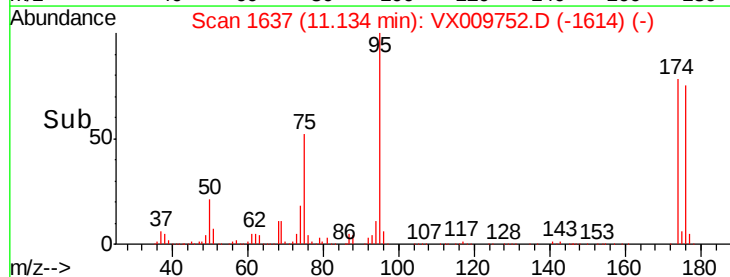
75 100

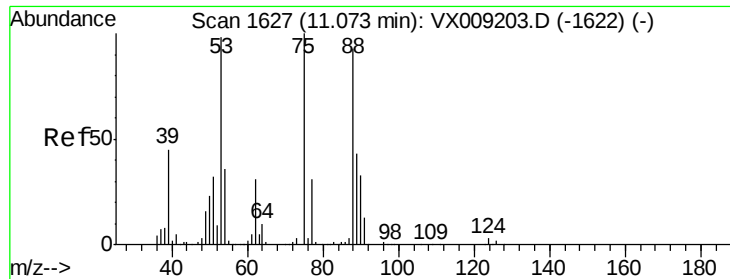
77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

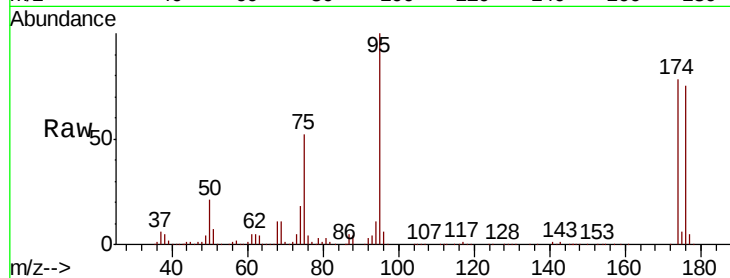




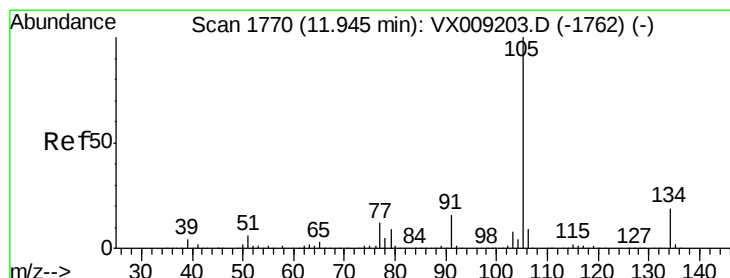
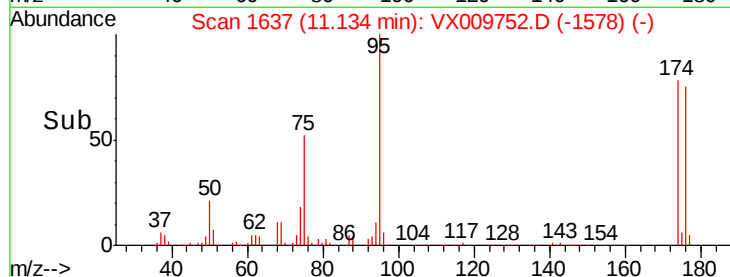
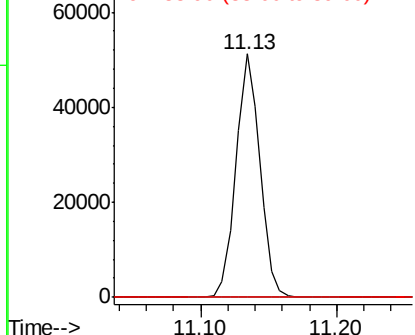
#81
trans-1,4-Dichloro-2-butene
Concen: 62.680 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
S73-0229

Tot Ion: 75 Resp: 62717
Ion Ratio Lower Upper
75 100
53 0.2 79.0 118.6#
89 0.0 34.7 52.1#

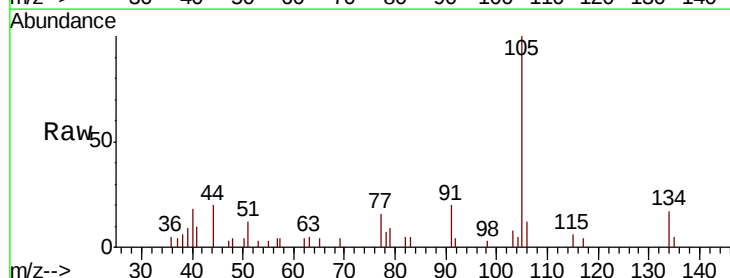


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

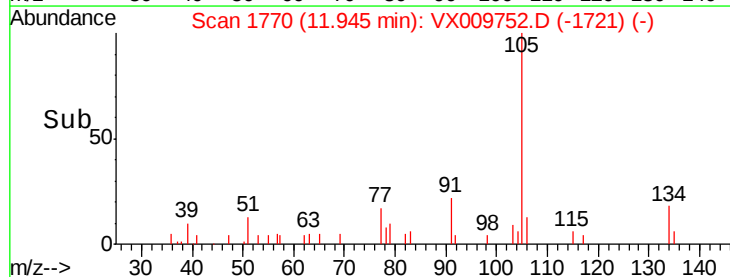
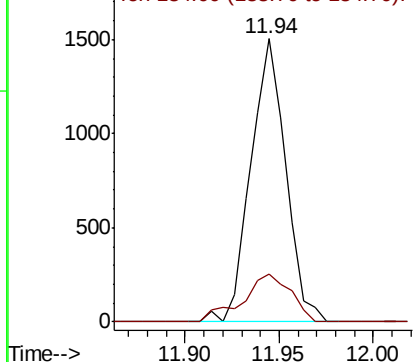


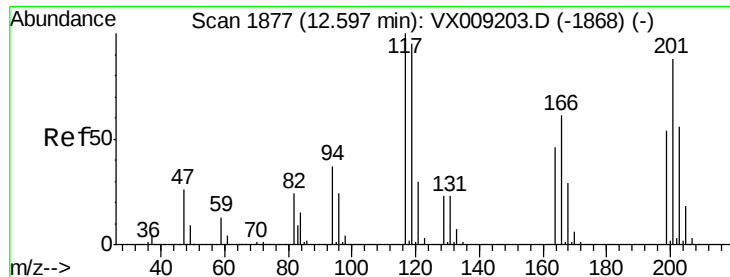
#85
sec-Butylbenzene
Concen: 0.247 ug/l
RT: 11.94 min Scan# 1770
Delta R.T. 0.00 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

Tgt Ion:105 Resp: 1927
Ion Ratio Lower Upper
105 100
134 23.4 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V

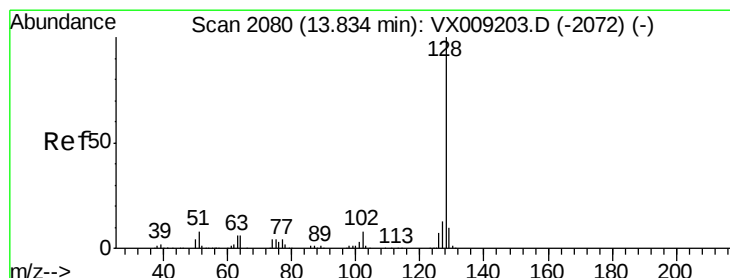
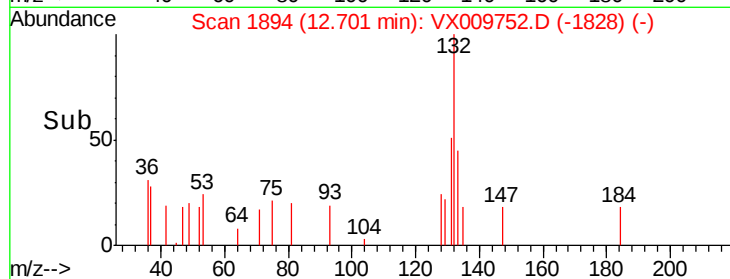
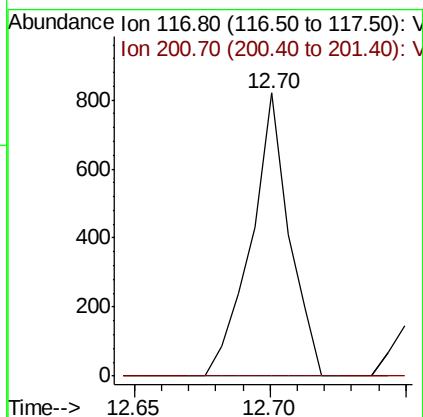
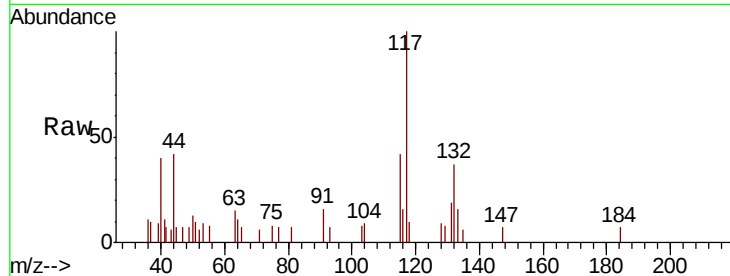




#90
Hexachloroethane
Concen: 0.669 ug/l
RT: 12.70 min Scan# 1894
Delta R.T. 0.10 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
S73-0229

Tot Ion:117 Resp: 798
Ion Ratio Lower Upper
117 100
201 0.0 42.3 126.9#



#95
Naphthalene
Concen: 0.228 ug/l
RT: 13.83 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX009752.D
Acq: 21 May 2019 16:57

Tgt Ion:128 Resp: 1831
Ion Ratio Lower Upper
128 100
127 13.9 10.4 15.6
129 15.6 8.6 13.0#

