

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052419\
 Data File : VX009895.D
 Acq On : 24 May 2019 18:31
 Operator : JC/SP
 Sample : K3039-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW159-190523

Quant Time: May 25 00:16:11 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	173296	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	279294	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	249376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106680	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	120078	50.76	ug/l	0.00
Spiked Amount						
			Recovery	=	101.52%	
35) Dibromofluoromethane	5.50	113	85811	48.87	ug/l	0.00
Spiked Amount						
			Recovery	=	97.74%	
50) Toluene-d8	8.71	98	356393	50.28	ug/l	0.00
Spiked Amount						
			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.13	95	119439	46.37	ug/l	0.00
Spiked Amount						
			Recovery	=	92.74%	

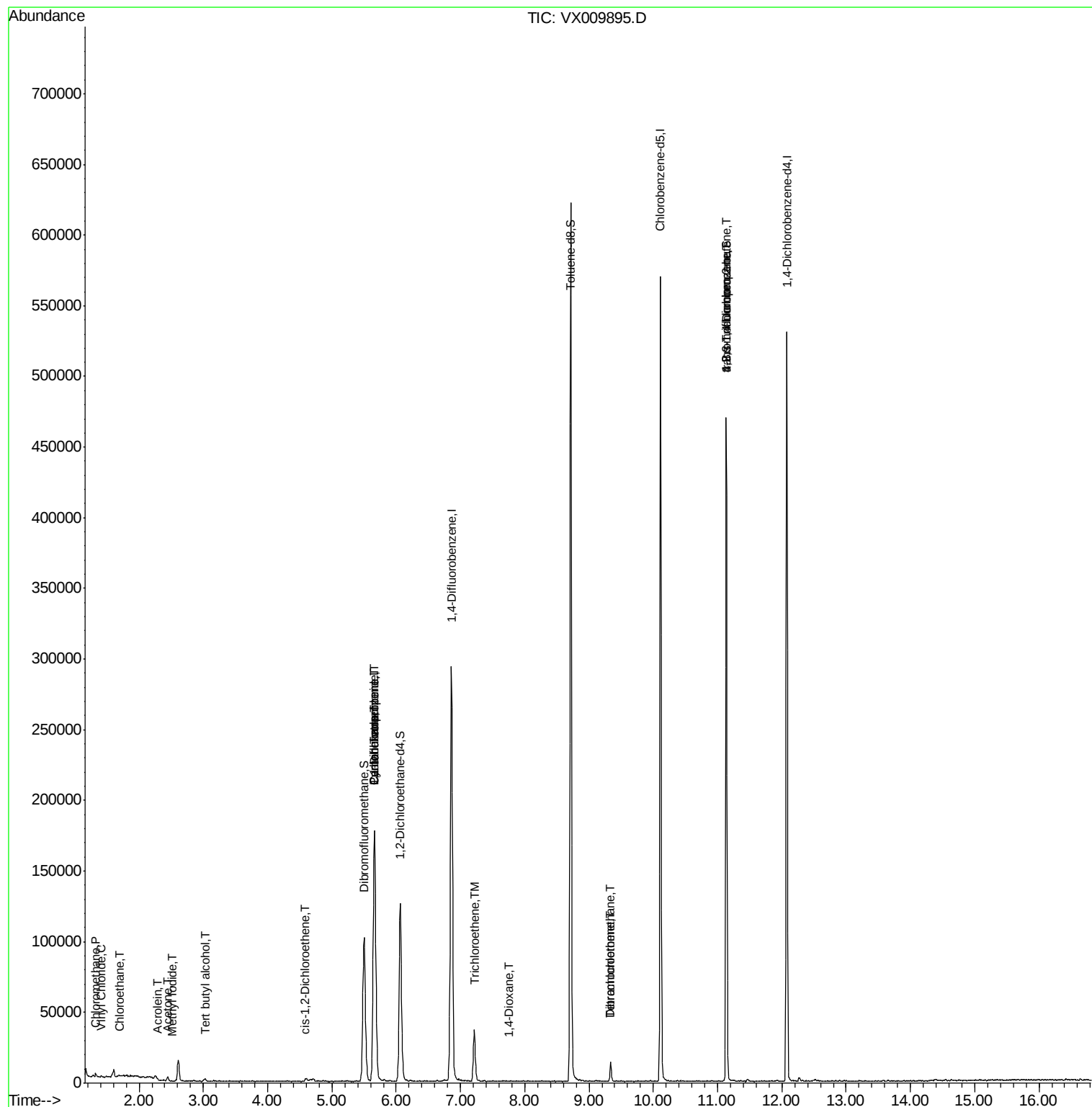
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	2039	0.935	ug/l	99
4) Vinyl Chloride	1.41	62	845	0.397	ug/l #	72
6) Chloroethane	1.71	64	3314	2.428	ug/l #	66
10) Methyl Iodide	2.51	142	70	4.628	ug/l #	42
11) Tert butyl alcohol	3.02	59	1073	1.959	ug/l #	90
13) Acrolein	2.29	56	170	0.343	ug/l #	66
16) Acetone	2.45	43	3305	2.602	ug/l	93
27) cis-1,2-Dichloroethene	4.59	96	913	0.434	ug/l	57
28) Bromochloromethane	5.02	49	22	Below Cal	#	20
31) Cyclohexane	5.66	56	4122	1.179	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13785	5.311	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16969	7.196	ug/l #	15
44) Trichloroethene	7.21	130	14084	7.253	ug/l	98
49) 1,4-Dioxane	7.76	88	19	0.326	ug/l #	1
60) Dibromochloromethane	9.34	129	2312	1.188	ug/l #	11
64) Tetrachloroethene	9.34	164	2679	1.566	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	62449	25.236	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62449	64.570	ug/l #	10

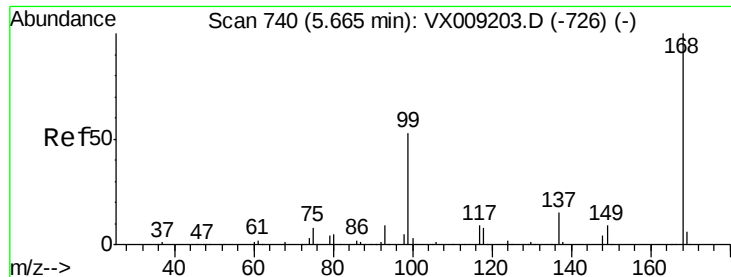
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 25 00:16:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

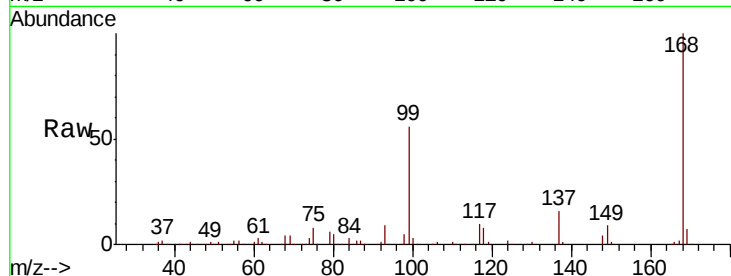
SS052MW159-190523

Tot Ion:168 Resp: 173296

Ion Ratio Lower Upper

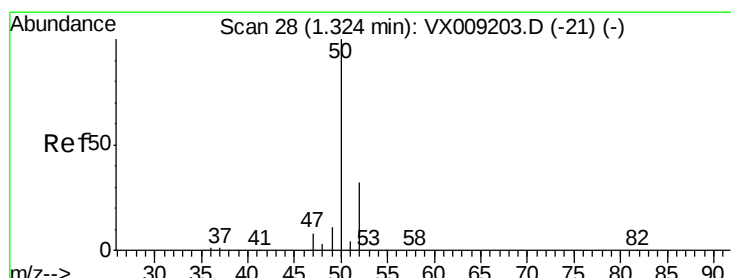
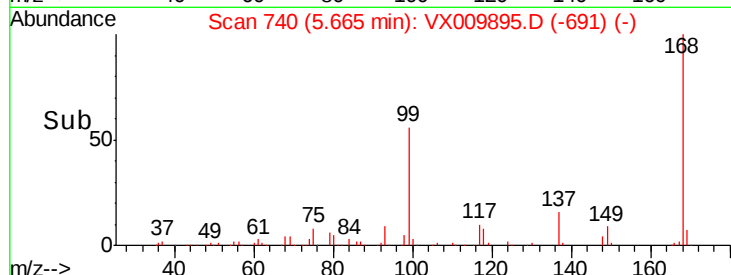
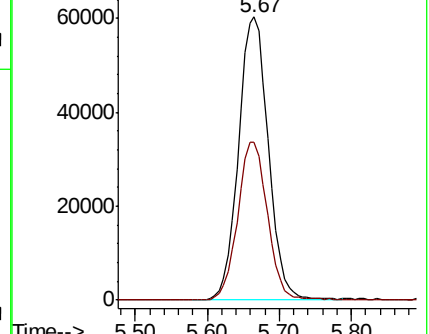
168 100

99 55.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.935 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009895.D

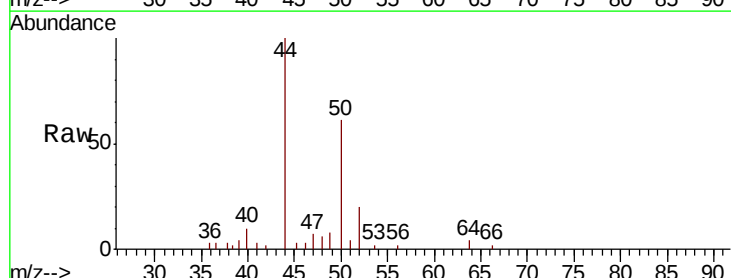
Acq: 24 May 2019 18:31

Tgt Ion: 50 Resp: 2039

Ion Ratio Lower Upper

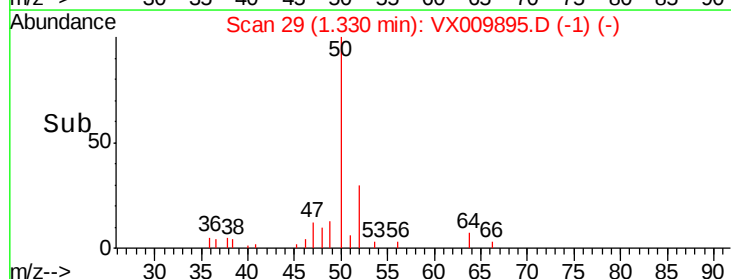
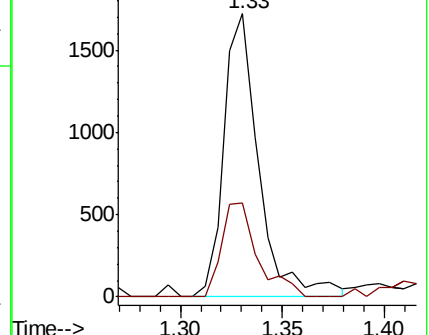
50 100

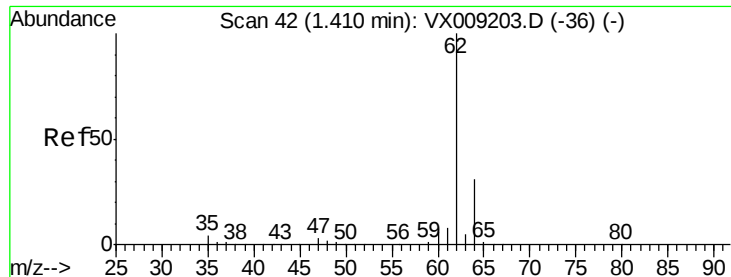
52 33.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.397 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

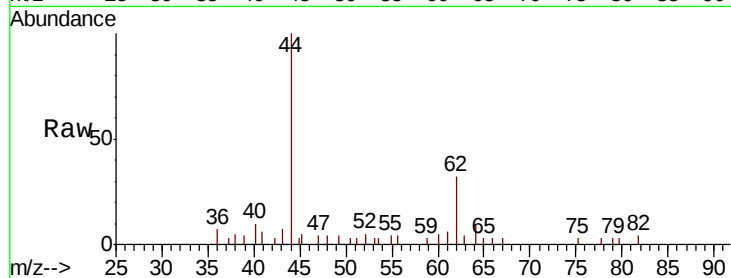
SS052MW159-190523

Tot Ion: 62 Resp: 845

Ion Ratio Lower Upper

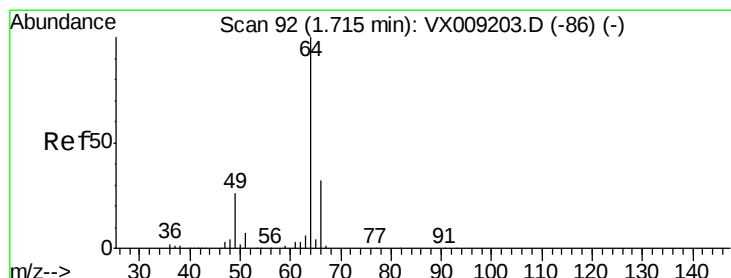
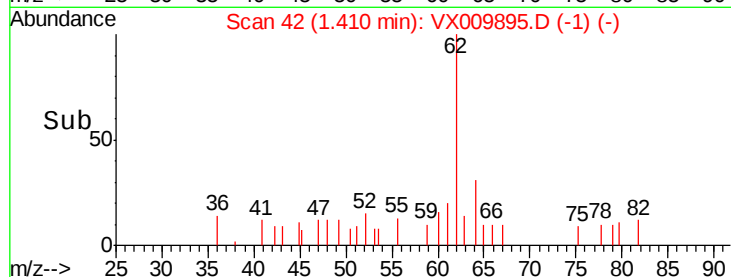
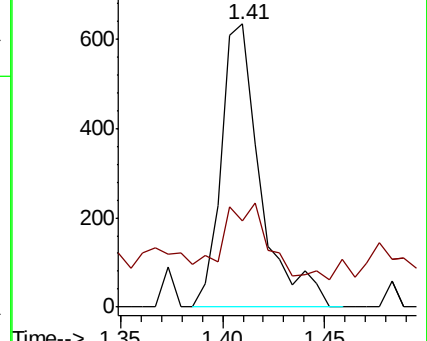
62 100

64 15.3 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 2.428 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX009895.D

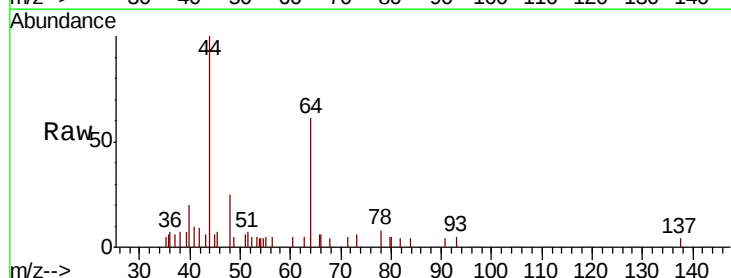
Acq: 24 May 2019 18:31

Tgt Ion: 64 Resp: 3314

Ion Ratio Lower Upper

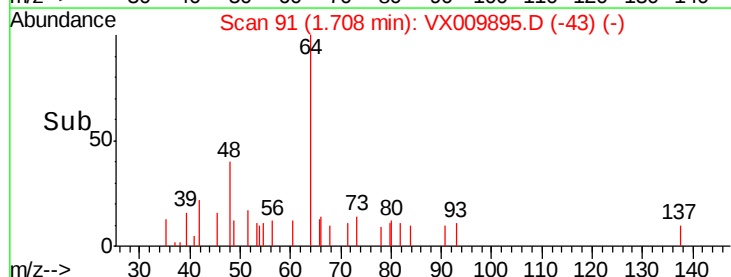
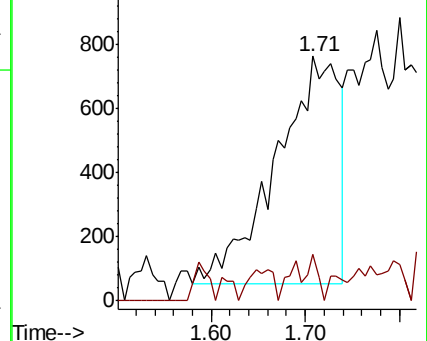
64 100

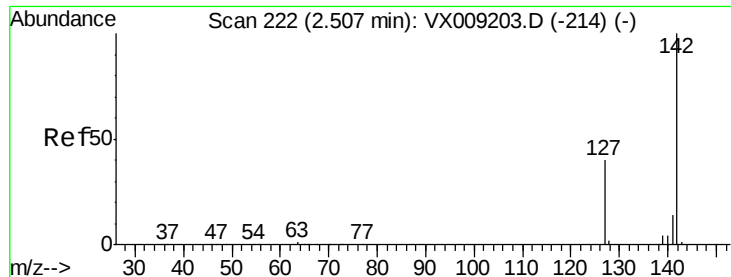
66 12.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

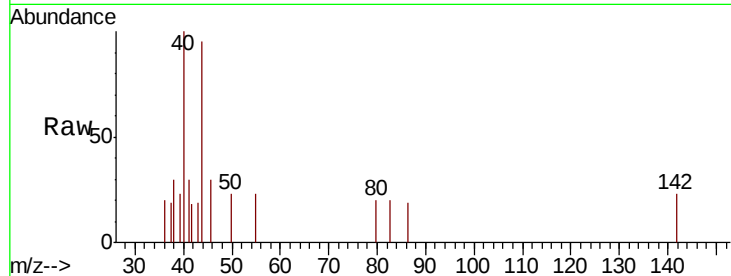




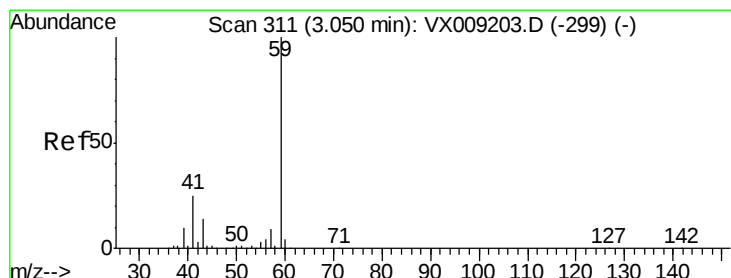
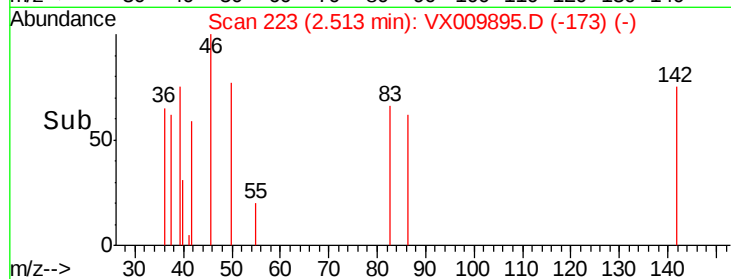
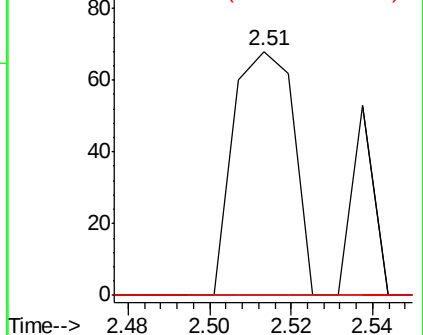
#10
Methyl Iodide
Concen: 4.628 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009895.D
Acq: 24 May 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :
SS052MW159-190523

Tot Ion:142 Resp: 70
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

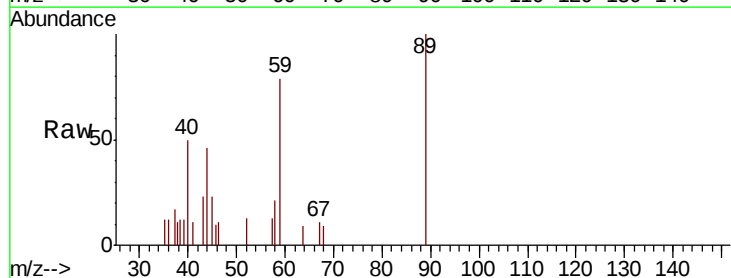


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

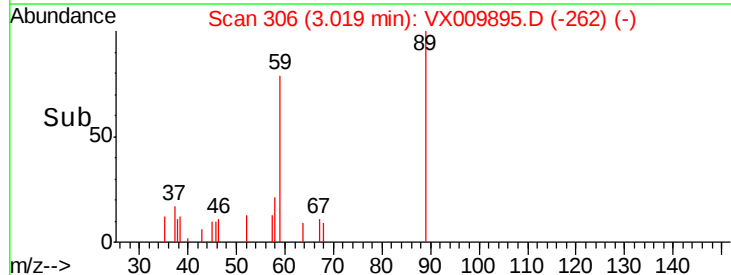
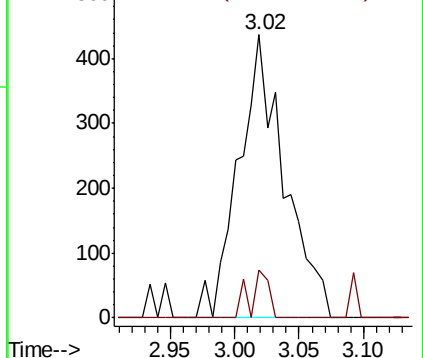


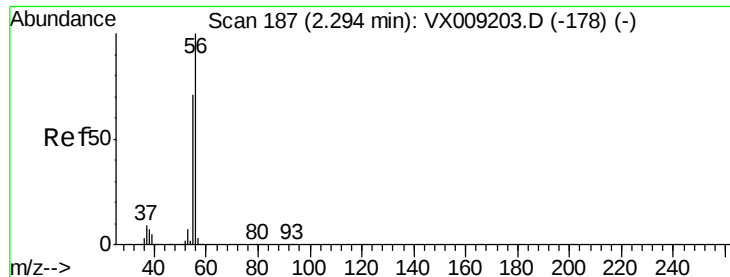
#11
Tert butyl alcohol
Concen: 1.959 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009895.D
Acq: 24 May 2019 18:31

Tgt Ion: 59 Resp: 1073
Ion Ratio Lower Upper
59 100
57 6.5 8.2 12.2#



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





#13

Acrolein

Concen: 0.343 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

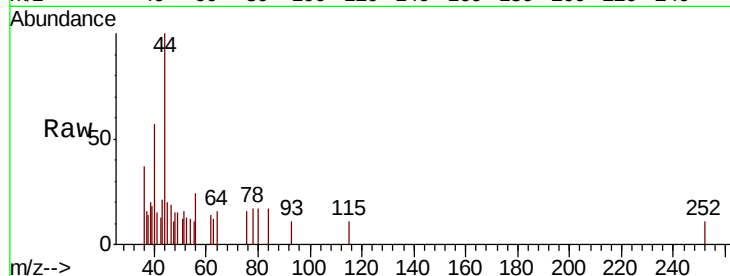
SS052MW159-190523

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

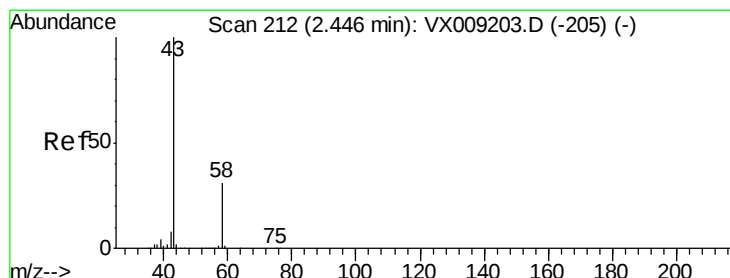
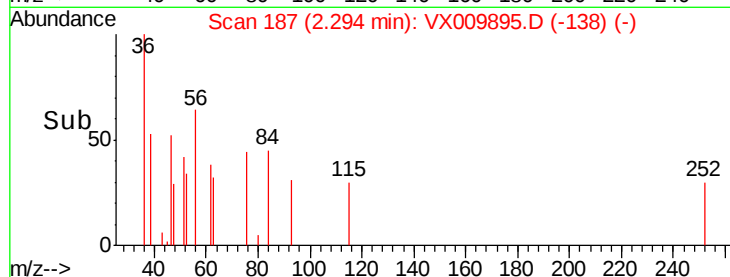
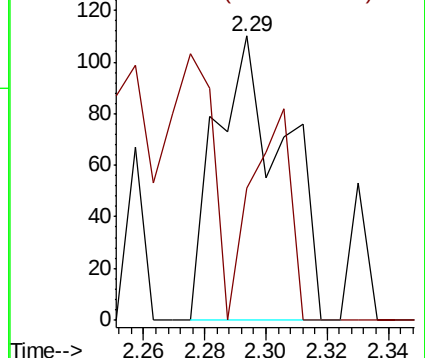
56 100

55 42.4 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.602 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009895.D

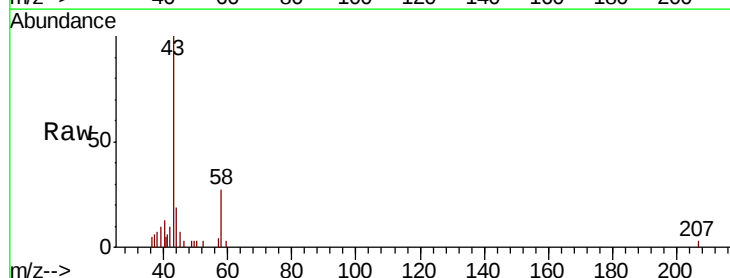
Acq: 24 May 2019 18:31

Tgt Ion: 43 Resp: 3305

Ion Ratio Lower Upper

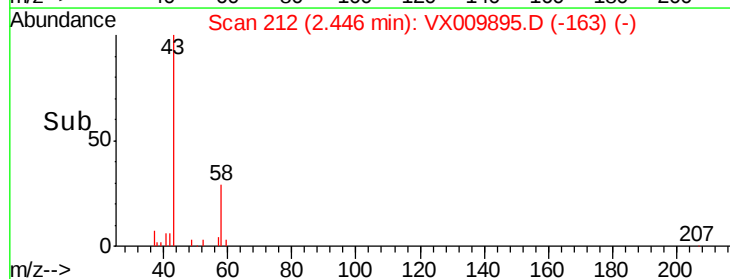
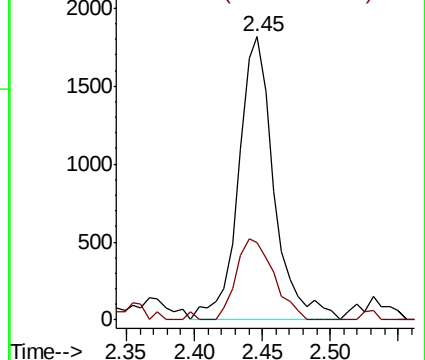
43 100

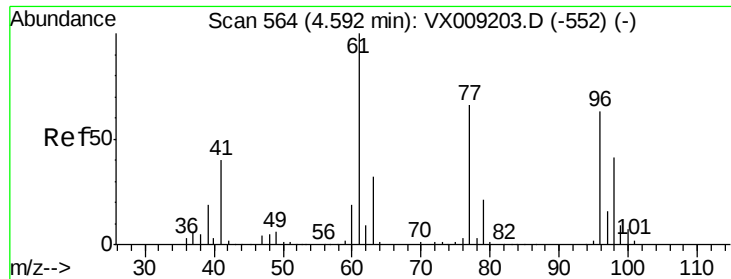
58 27.3 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



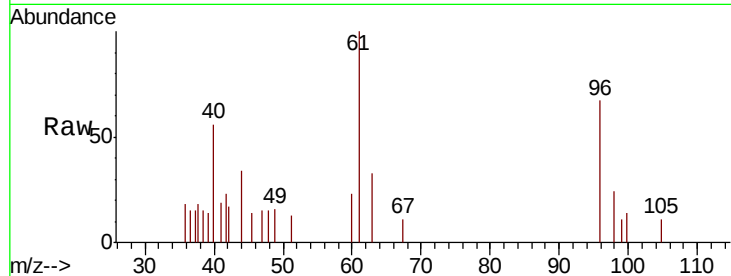


#27

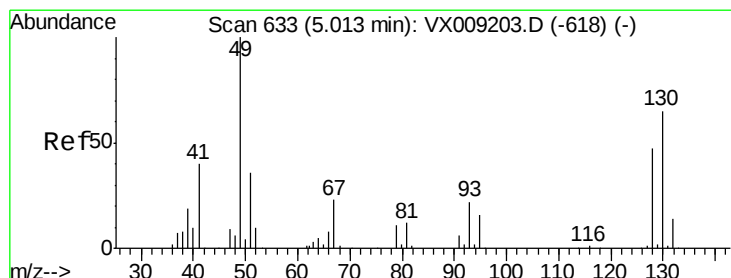
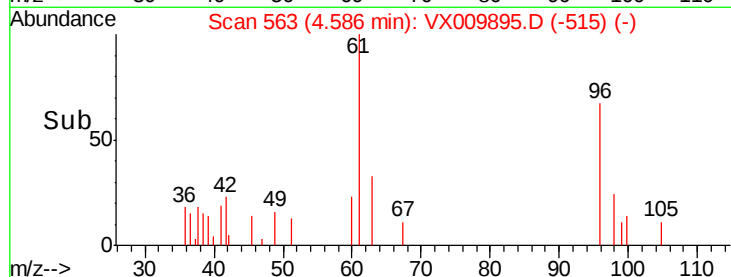
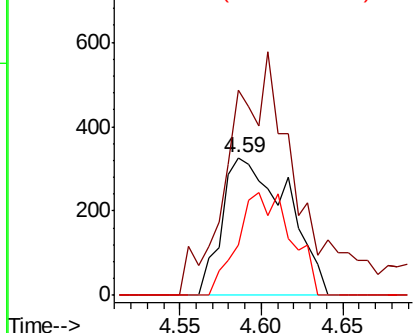
cis-1,2-Dichloroethene
Concen: 0.434 ug/l
RT: 4.59 min Scan# 563
Delta R.T. -0.01 min
Lab File: VX009895.D
Acq: 24 May 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :
SS052MW159-190523

Tot Ion: 96 Resp: 913
Ion Ratio Lower Upper
96 100
61 85.2 0.0 324.0
98 60.9 0.0 130.4



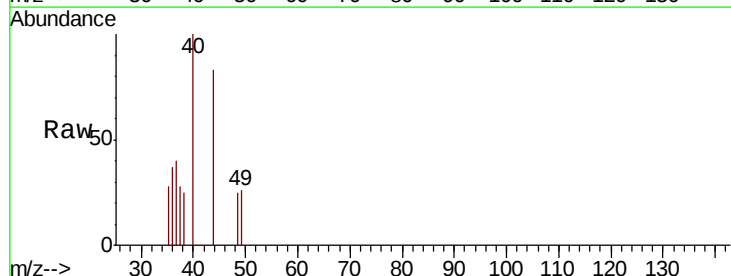
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



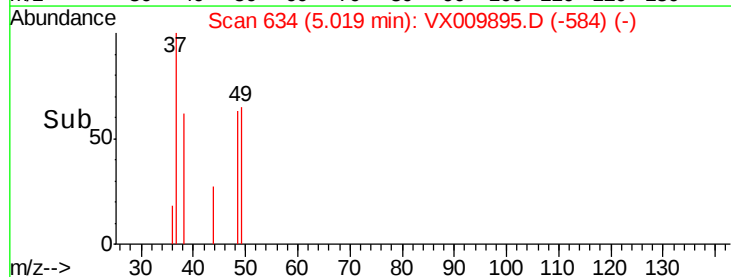
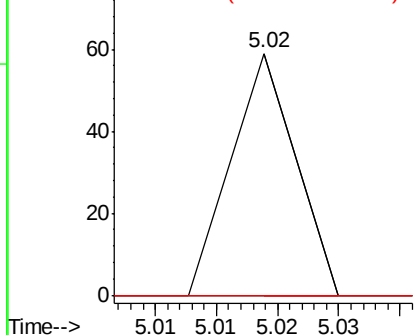
#28

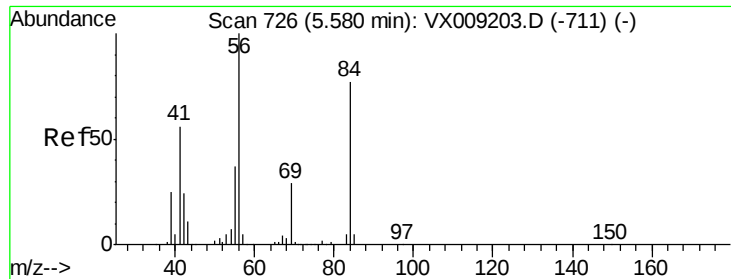
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 634
Delta R.T. 0.01 min
Lab File: VX009895.D
Acq: 24 May 2019 18:31

Tgt Ion: 49 Resp: 22
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

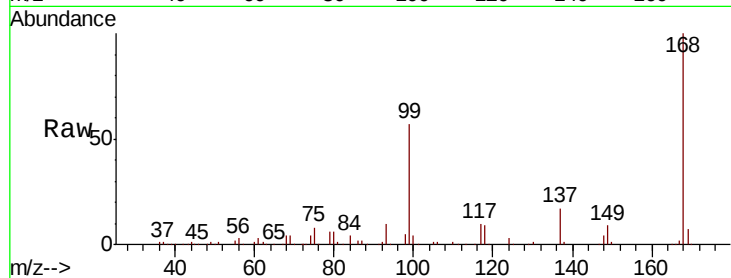




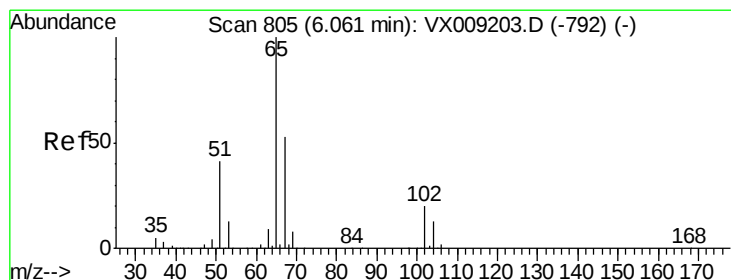
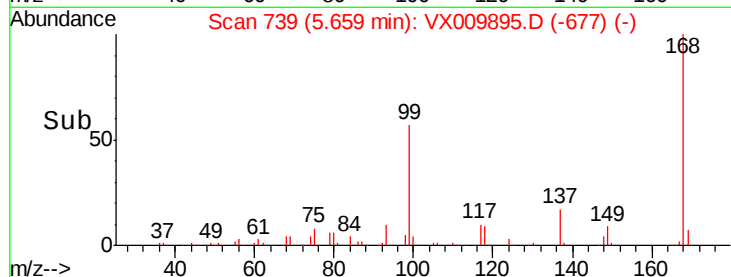
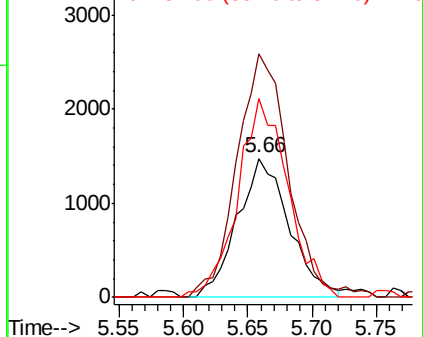
#31
Cyclohexane
Concen: 1.179 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009895.D
Acq: 24 May 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :
SS052MW159-190523

Tot Ion: 56 Resp: 4122
Ion Ratio Lower Upper
56 100
69 175.1 23.4 35.0#
84 142.6 61.9 92.9#

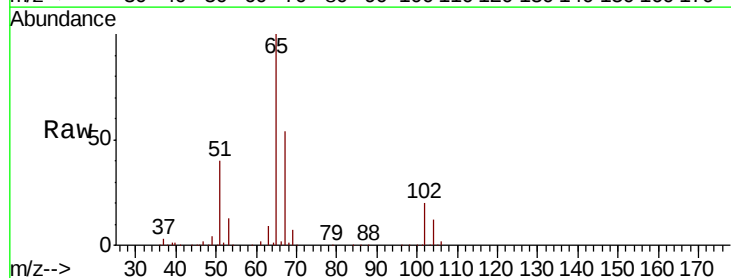


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

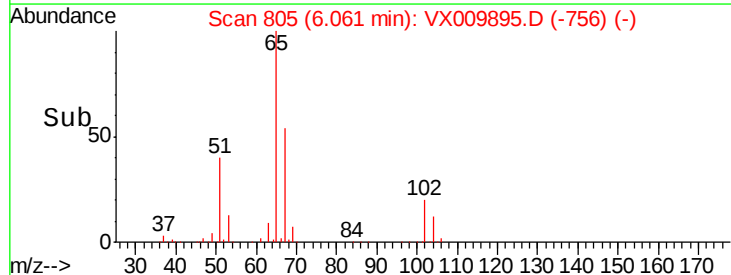
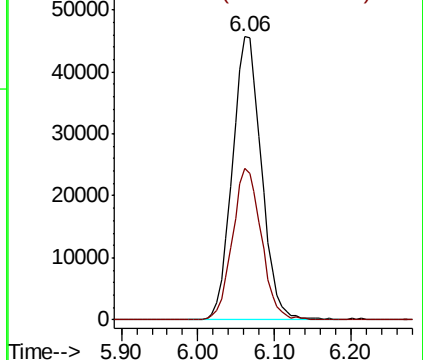


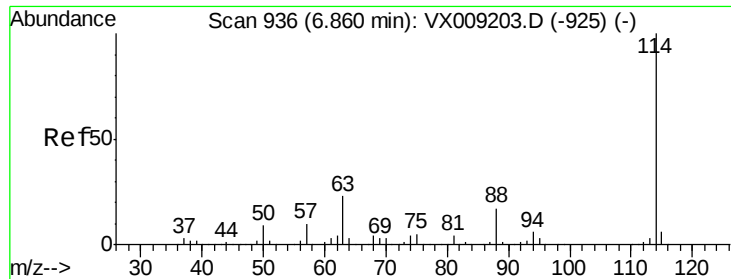
#33
1,2-Dichloroethane-d4
Concen: 50.758 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009895.D
Acq: 24 May 2019 18:31

Tgt Ion: 65 Resp: 120078
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.6



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

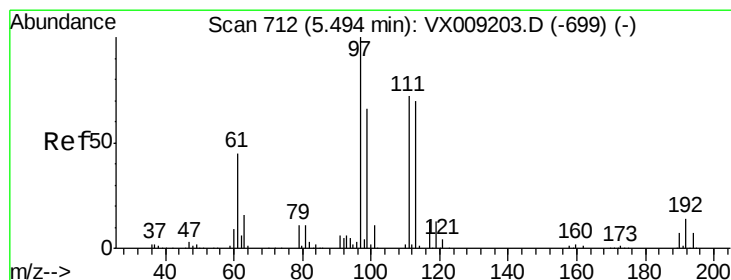
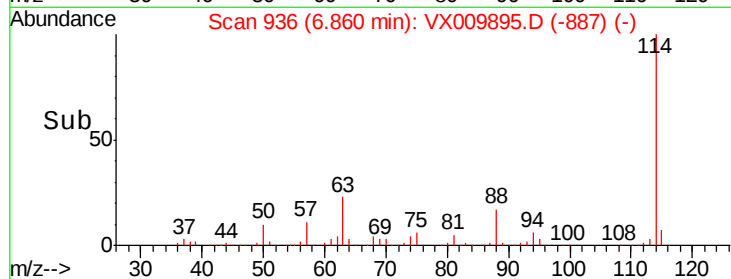
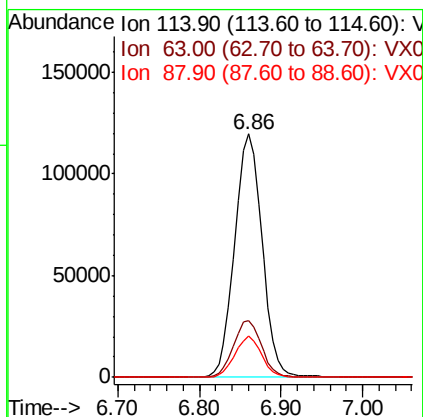
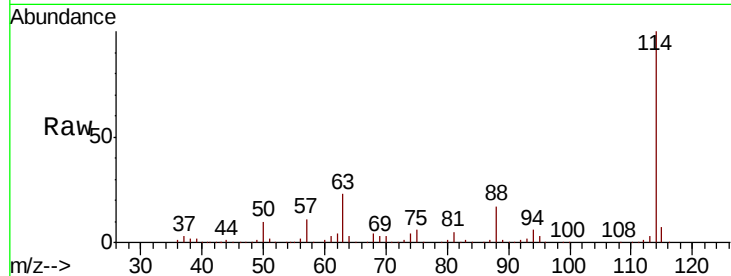




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009895.D
 Acq: 24 May 2019 18:31

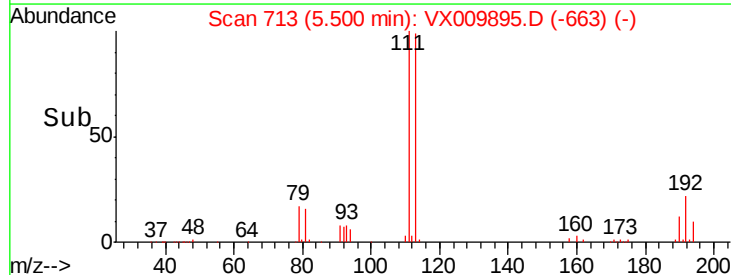
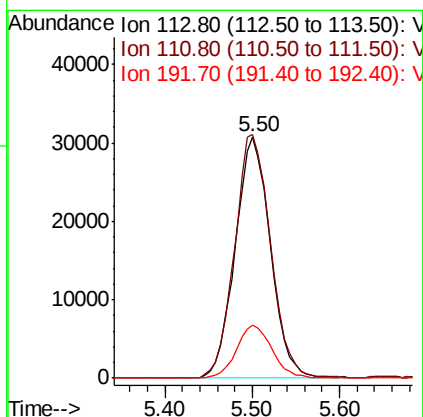
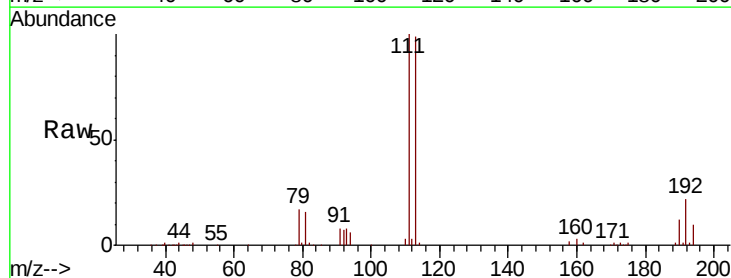
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW159-190523

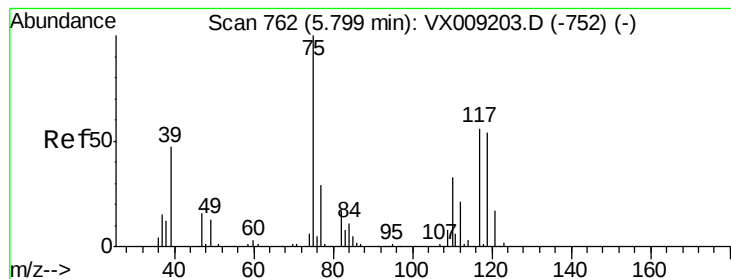
Tot Ion:114 Resp: 279294
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.6
 88 17.1 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.874 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009895.D
 Acq: 24 May 2019 18:31

Tgt Ion:113 Resp: 85811
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.8 124.2
 192 22.0 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.311 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

SS052MW159-190523

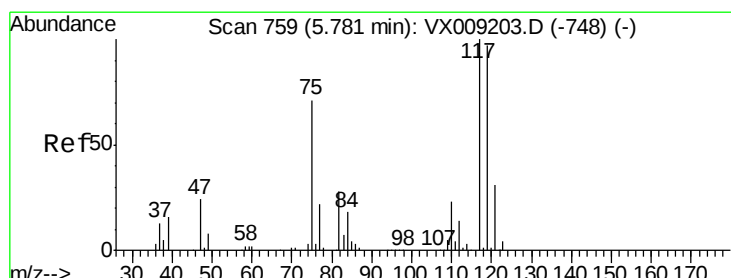
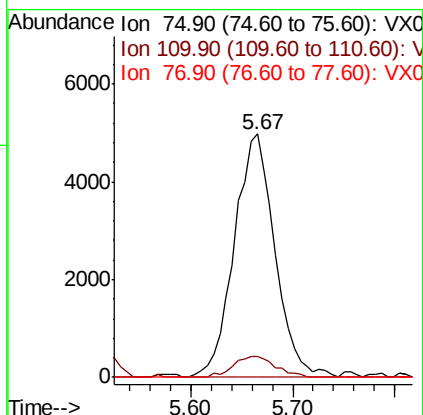
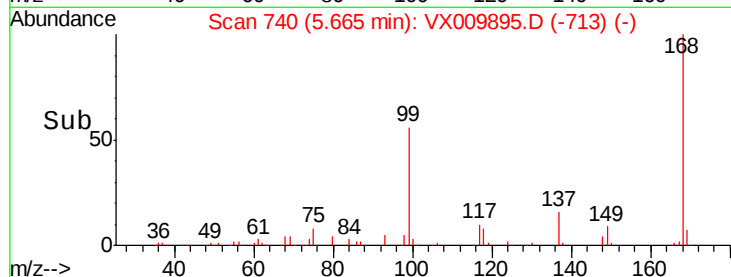
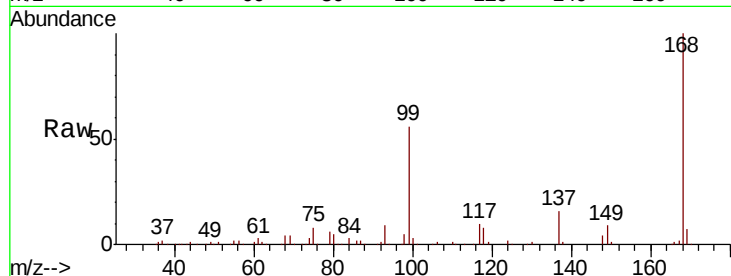
Tot Ion: 75 Resp: 13785

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.196 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

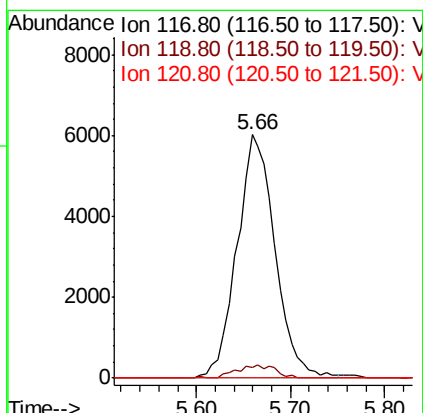
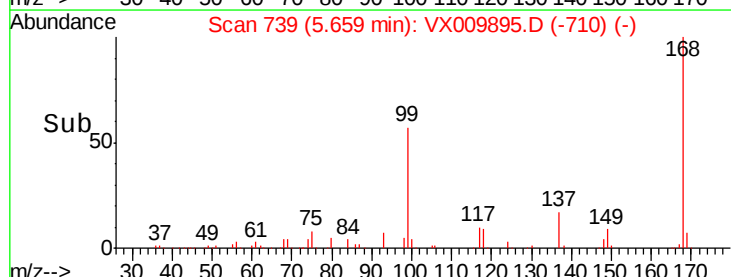
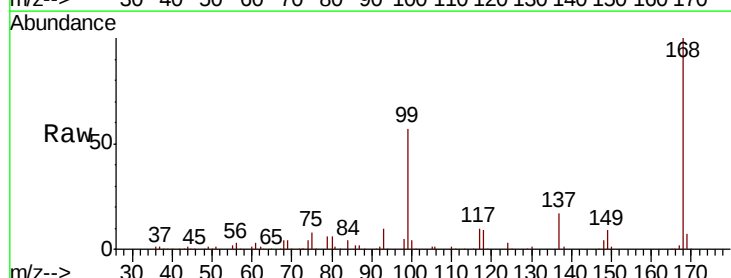
Tgt Ion: 117 Resp: 16969

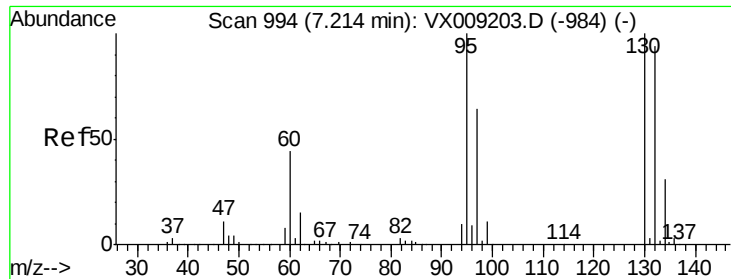
Ion Ratio Lower Upper

117 100

119 4.3 77.5 116.3#

121 0.0 24.7 37.1#





#44

Trichloroethene

Concen: 7.253 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

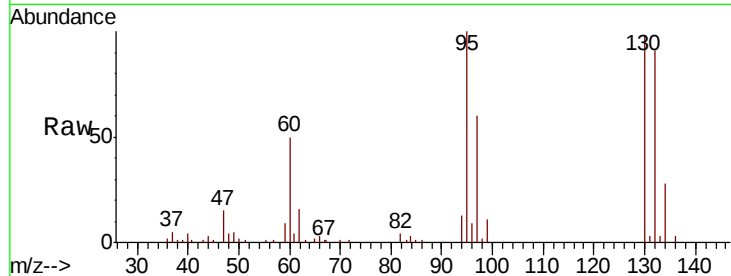
SS052MW159-190523

Tot Ion:130 Resp: 14084

Ion Ratio Lower Upper

130 100

95 101.7 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

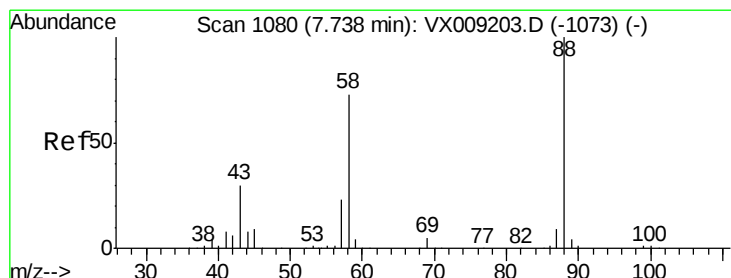
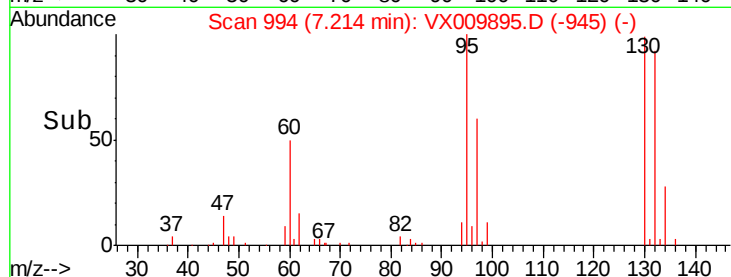
6000

4000

2000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 0.326 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

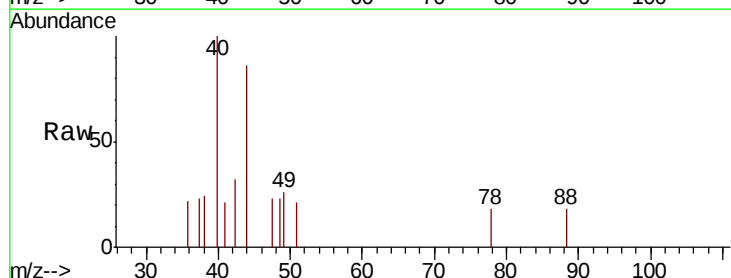
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1094.7 28.6 42.8#

58 126.3 61.7 92.5#



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

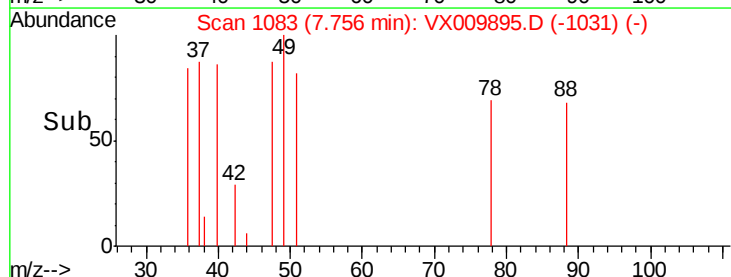
150

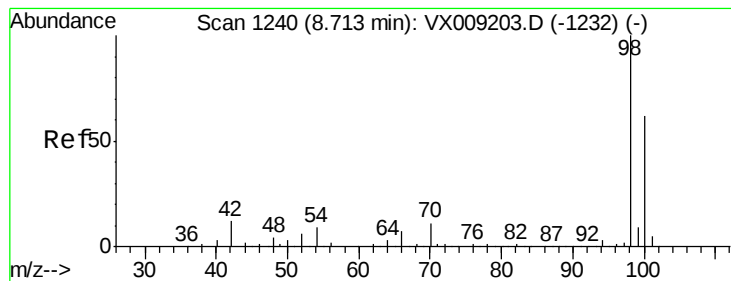
100

50

0

Time--> 7.74 7.75 7.76 7.77





#50

Toluene-d8

Concen: 50.278 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

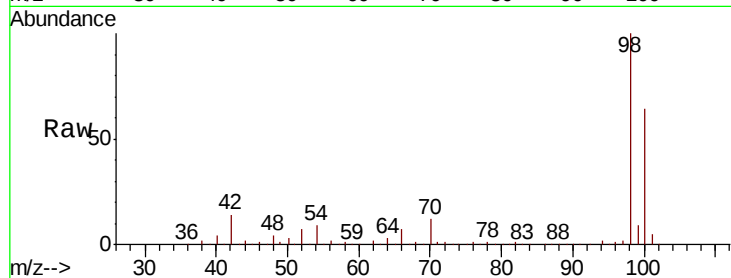
SS052MW159-190523

Tot Ion: 98 Resp: 356393

Ion Ratio Lower Upper

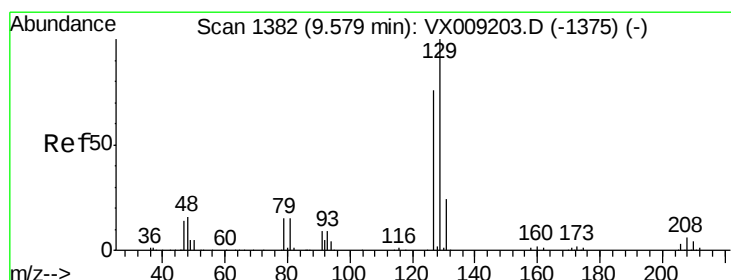
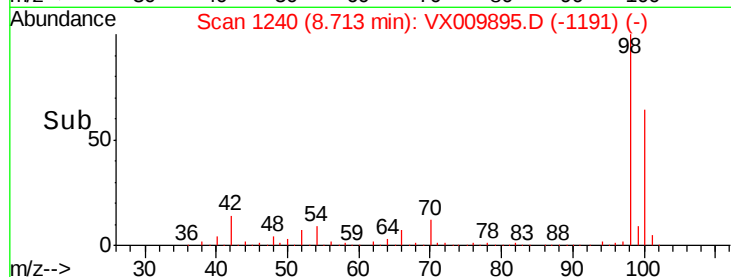
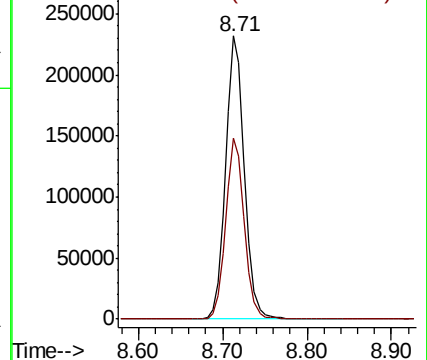
98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 1.188 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009895.D

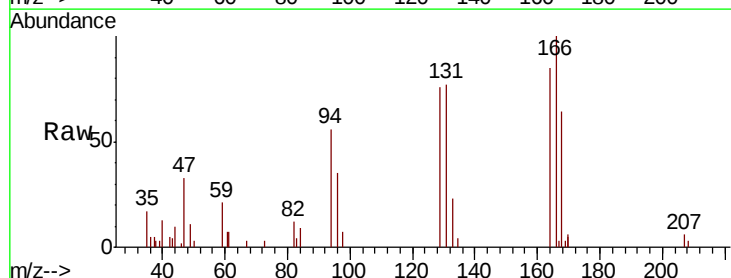
Acq: 24 May 2019 18:31

Tgt Ion:129 Resp: 2312

Ion Ratio Lower Upper

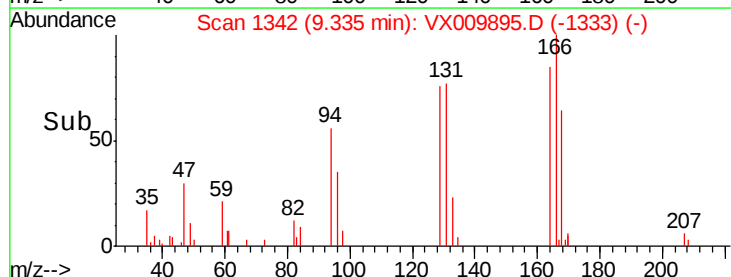
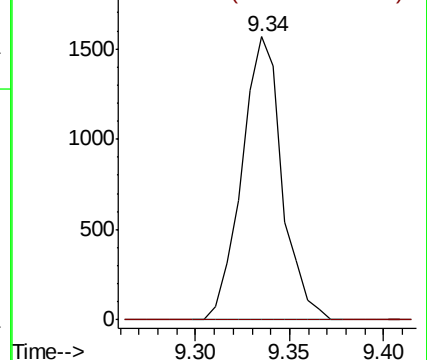
129 100

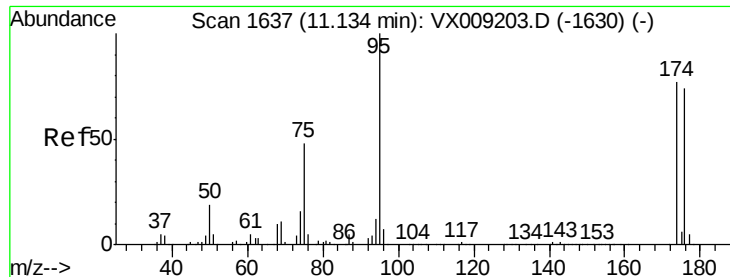
127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 46.372 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

SS052MW159-190523

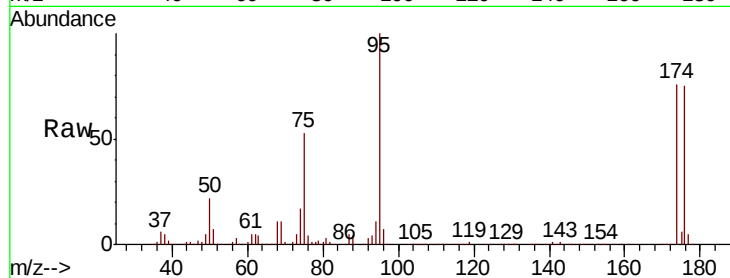
Tot Ion: 95 Resp: 119439

Ion Ratio Lower Upper

95 100

174 80.8 0.0 161.6

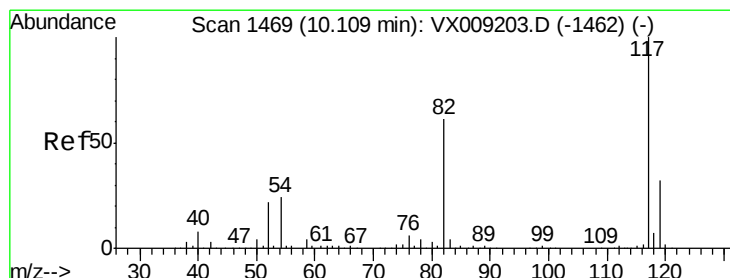
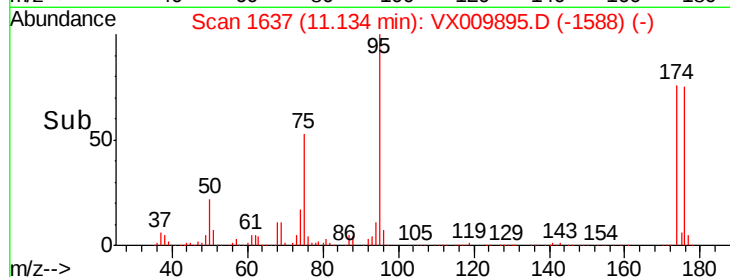
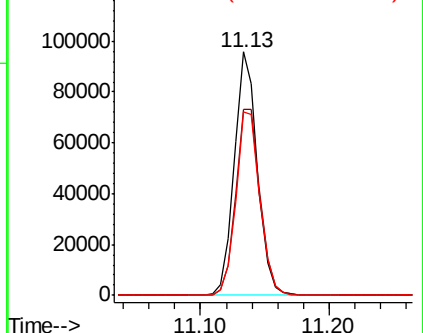
176 78.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009895.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009895.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009895.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

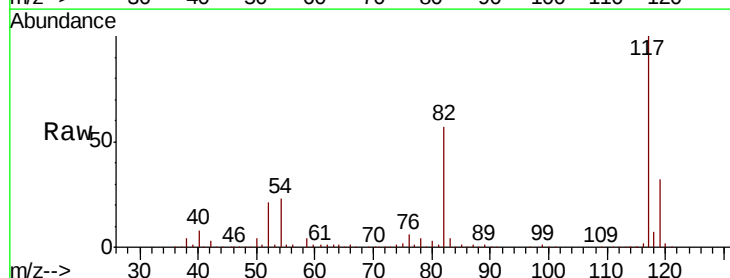
Tgt Ion: 117 Resp: 249376

Ion Ratio Lower Upper

117 100

82 56.7 48.8 73.2

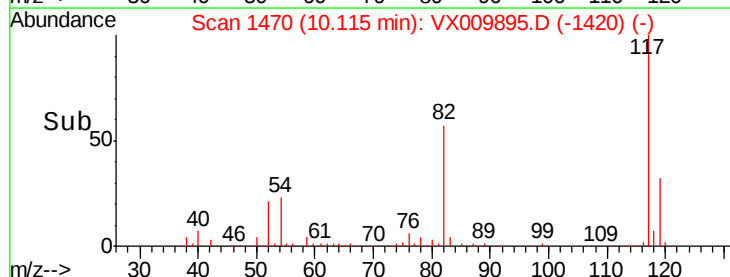
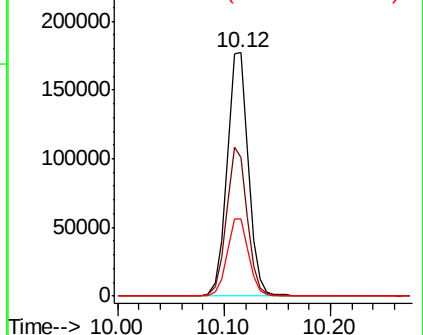
119 31.8 25.8 38.6

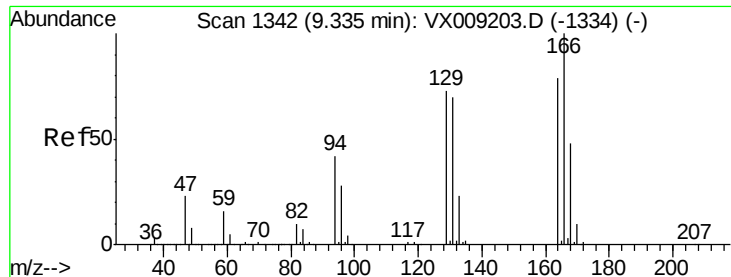


Abundance Ion 116.90 (116.60 to 117.60): VX009895.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009895.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009895.D (-1420) (-)





#64

Tetrachloroethene

Concen: 1.566 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

SS052MW159-190523

Tot Ion:164 Resp: 2679

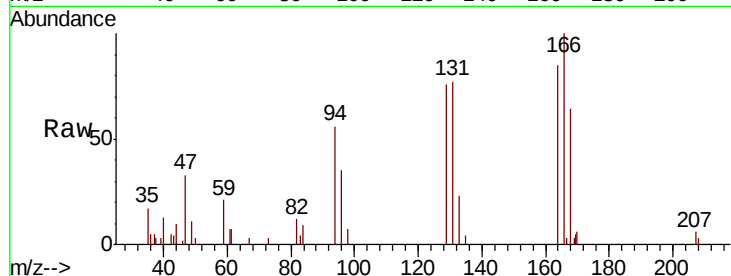
Ion Ratio Lower Upper

164 100

166 117.3 101.2 151.8

129 89.0 74.3 111.5

131 89.7 71.0 106.6

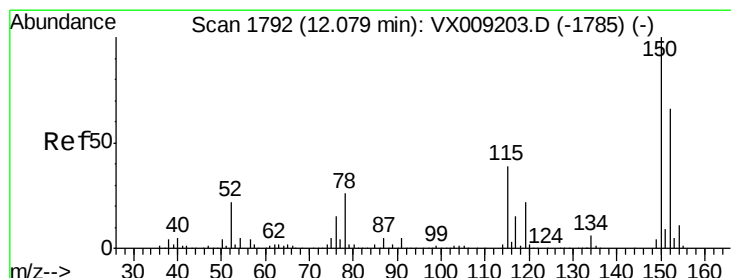
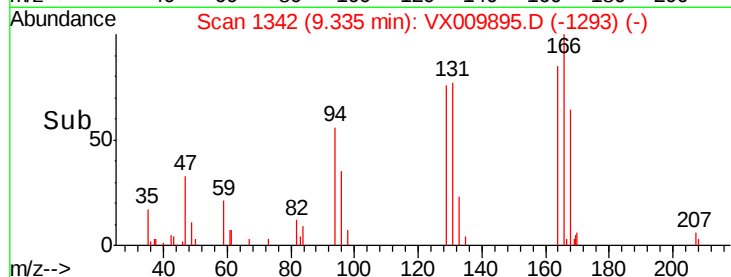
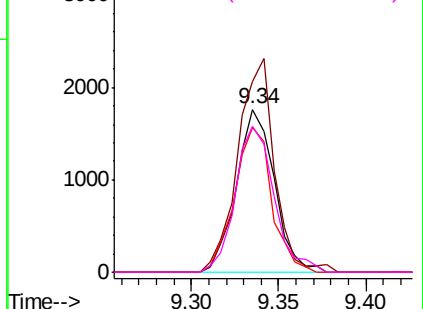


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

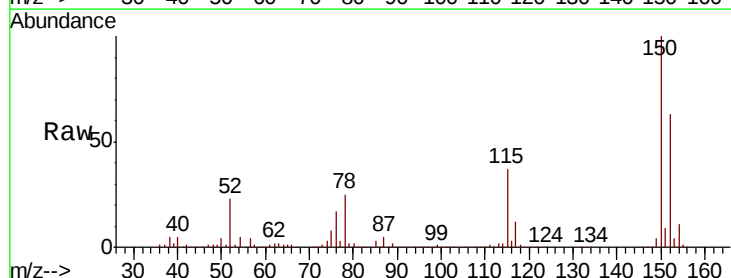
Tgt Ion:152 Resp: 106680

Ion Ratio Lower Upper

152 100

115 59.9 41.2 123.6

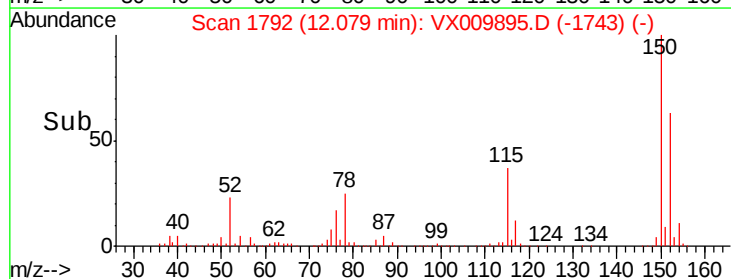
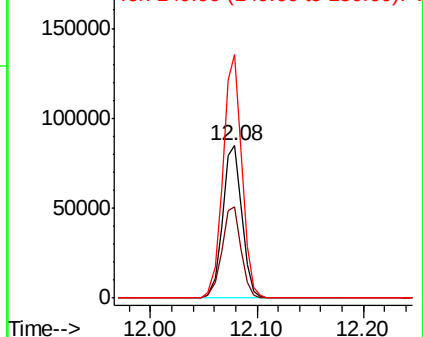
150 157.3 0.0 346.4

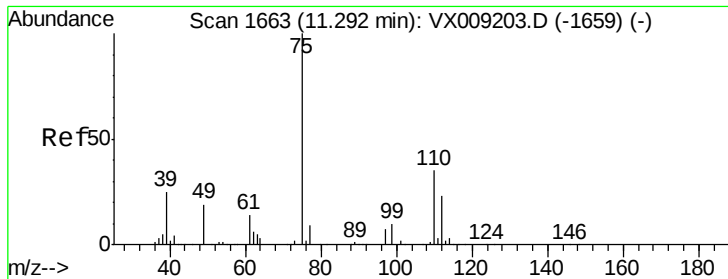


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.236 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

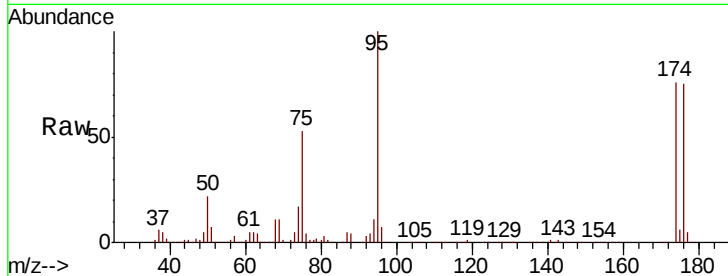
SS052MW159-190523

Tot Ion: 75 Resp: 62449

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

50000

40000

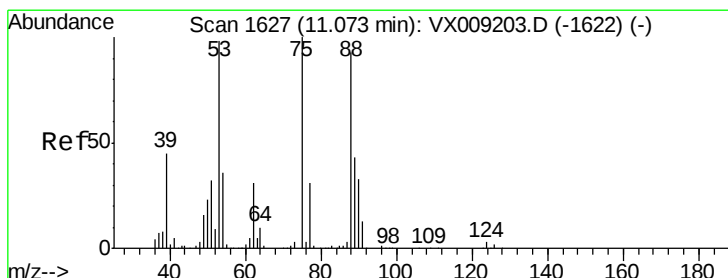
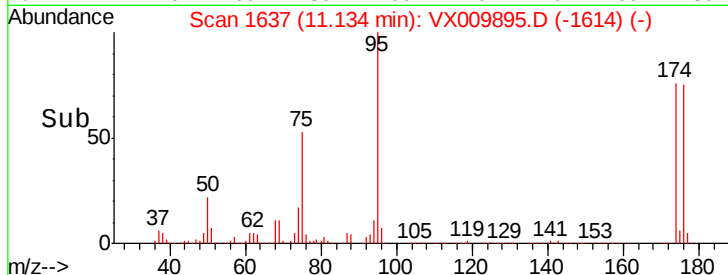
30000

20000

10000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 64.570 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009895.D

Acq: 24 May 2019 18:31

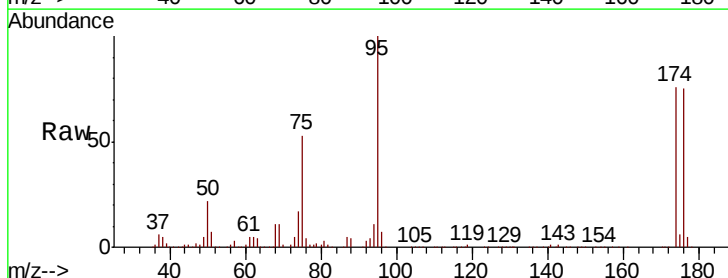
Tgt Ion: 75 Resp: 62449

Ion Ratio Lower Upper

75 100

53 0.1 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

11.13

60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20

