

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009682.D
 Acq On : 17 May 2019 23:14
 Operator : JC/SP
 Sample : K2887-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW726-190515

Quant Time: May 18 04:54:49 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	159339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	255201	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	222017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	88637	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	107581	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
35) Dibromofluoromethane	5.50	113	78847	49.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.30%	
50) Toluene-d8	8.71	98	319956	49.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.80%	
62) 4-Bromofluorobenzene	11.13	95	101746	43.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.46%	

Target Compounds

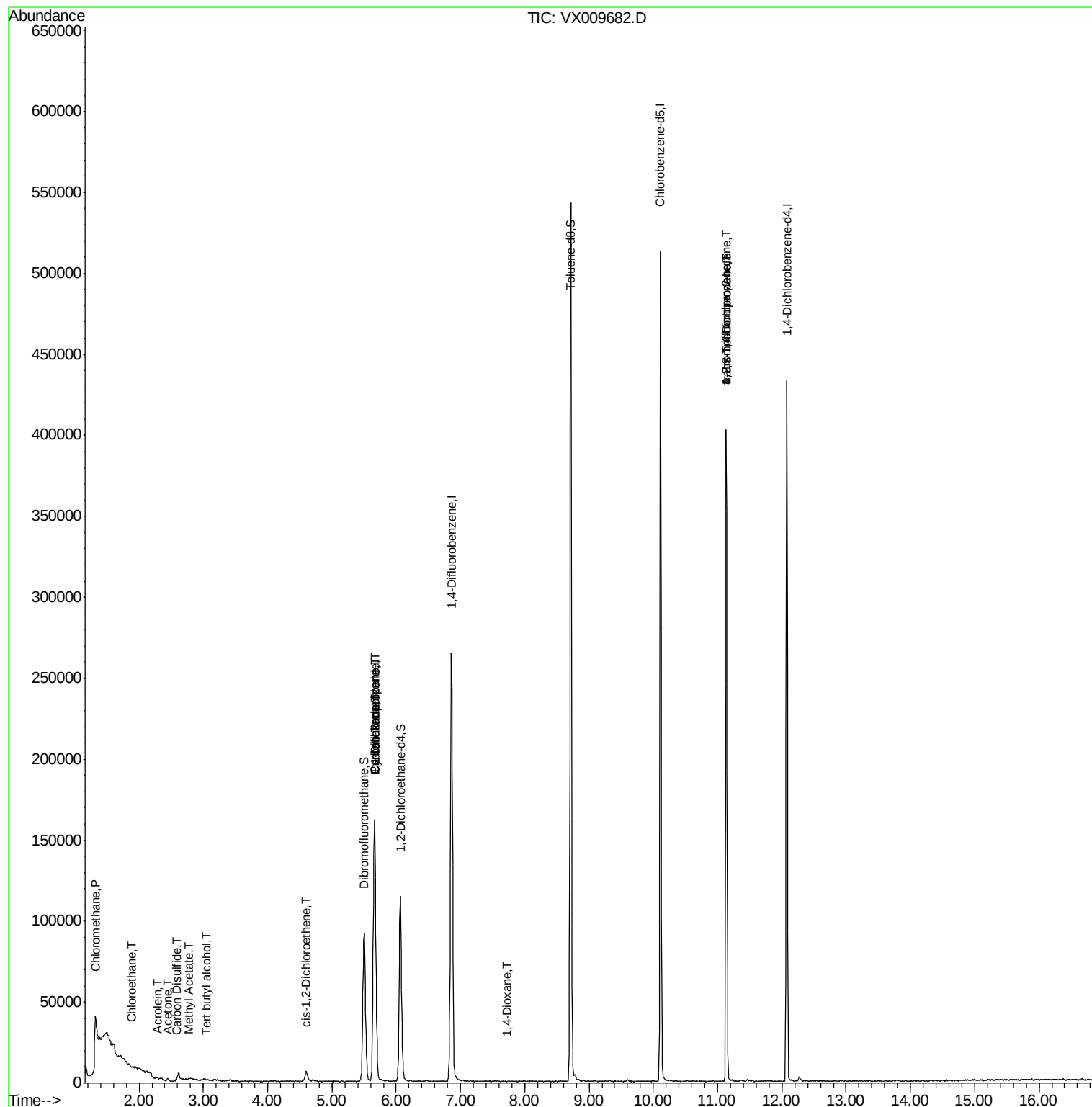
						Qvalue
3) Chloromethane	1.32	50	2654	1.324	ug/l #	59
6) Chloroethane	1.89	64	1582	1.261	ug/l #	64
11) Tert butyl alcohol	3.04	59	453	0.900	ug/l #	73
13) Acrolein	2.28	56	325	0.713	ug/l #	39
16) Acetone	2.44	43	1807	1.547	ug/l	99
17) Carbon Disulfide	2.59	76	1254	0.299	ug/l #	88
18) Methyl Acetate	2.78	43	620	0.223	ug/l #	56
27) cis-1,2-Dichloroethene	4.60	96	3630	1.876	ug/l	90
28) Bromochloromethane	5.01	49	61	Below Cal	#	20
31) Cyclohexane	5.67	56	3483	1.083	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	12453	5.251	ug/l #	50
38) Carbon Tetrachloride	5.67	117	15134	7.023	ug/l #	16
49) 1,4-Dioxane	7.73	88	21	0.395	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	52322	25.448	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	52322	65.112	ug/l #	10

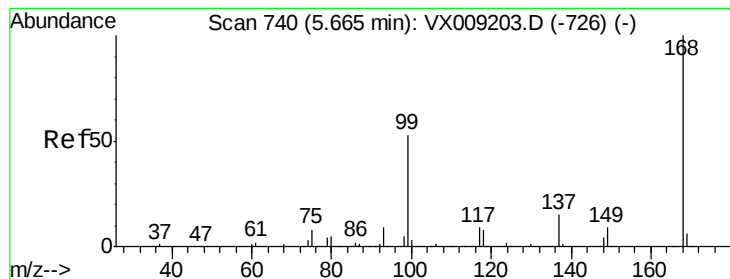
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 09 07:31:15 2019
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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: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

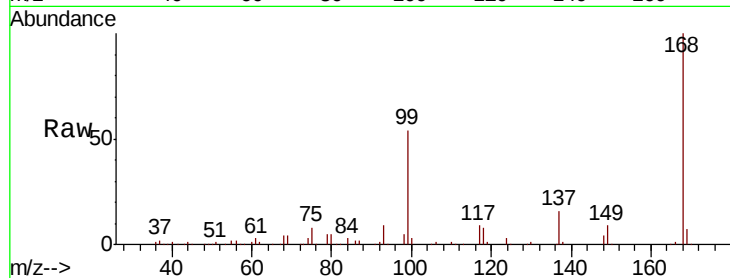
SS052MW726-190515

Tot Ion:168 Resp: 159339

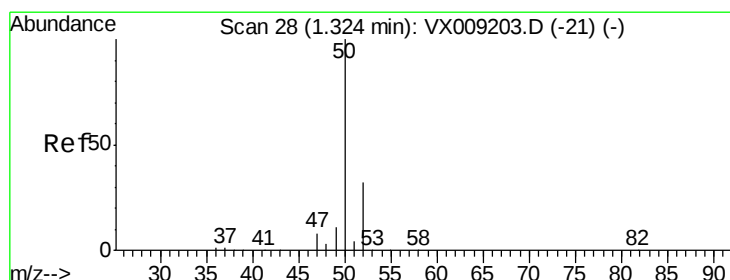
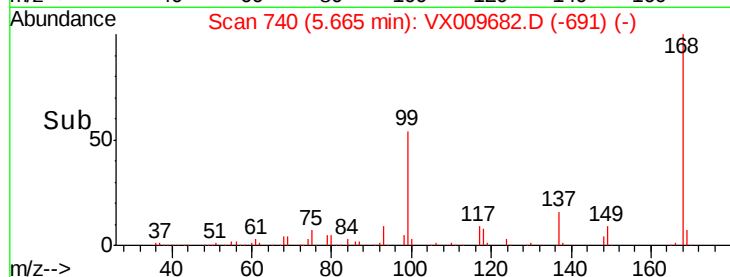
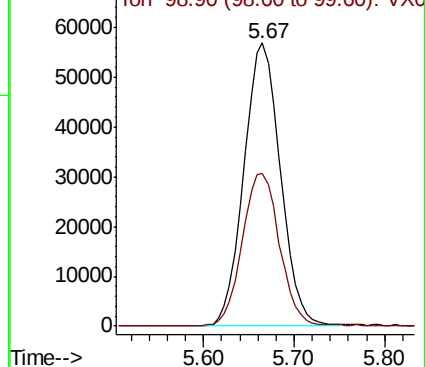
Ion Ratio Lower Upper

168 100

99 54.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VX009203.D (-726) (-)



#3

Chloromethane

Concen: 1.324 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009682.D

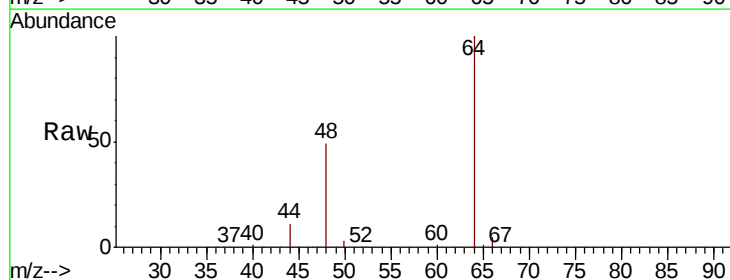
Acq: 17 May 2019 23:14

Tgt Ion: 50 Resp: 2654

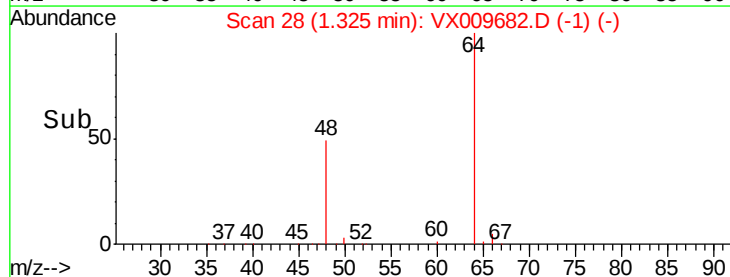
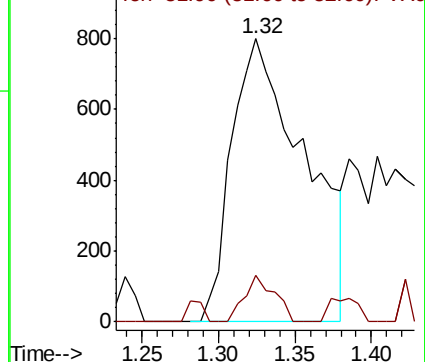
Ion Ratio Lower Upper

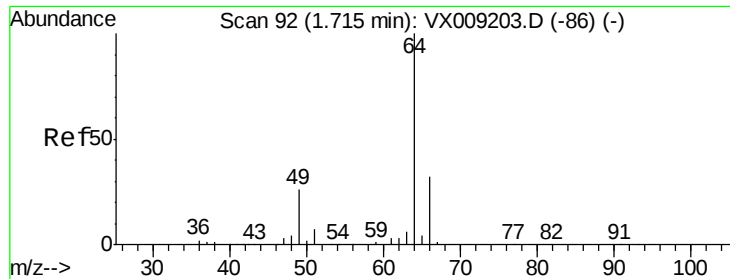
50 100

52 9.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX009203.D (-21) (-)





#6

Chloroethane

Concen: 1.261 ug/l

RT: 1.89 min Scan# 121

Delta R.T. 0.18 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

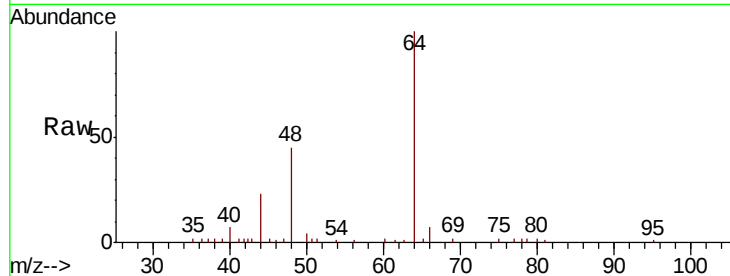
SS052MW726-190515

Tot Ion: 64 Resp: 1582

Ion Ratio Lower Upper

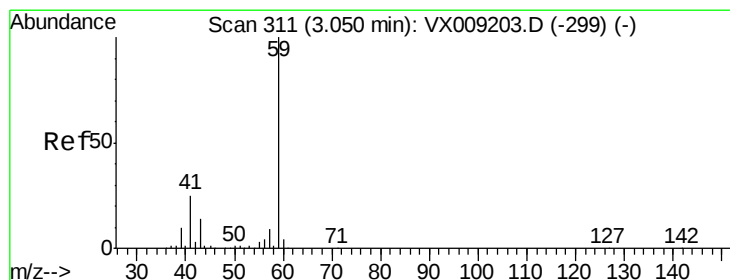
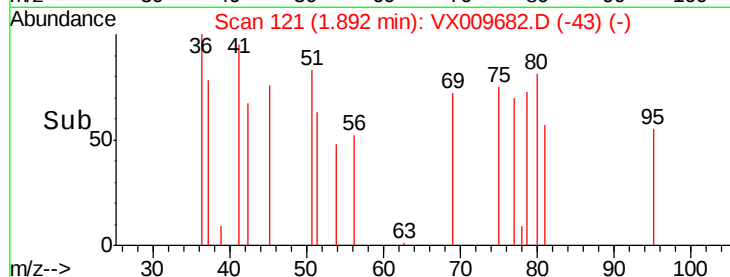
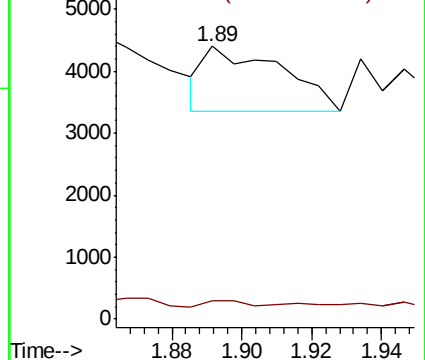
64 100

66 11.5 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.900 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX009682.D

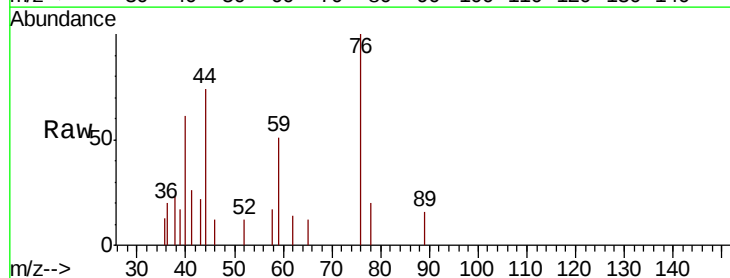
Acq: 17 May 2019 23:14

Tgt Ion: 59 Resp: 453

Ion Ratio Lower Upper

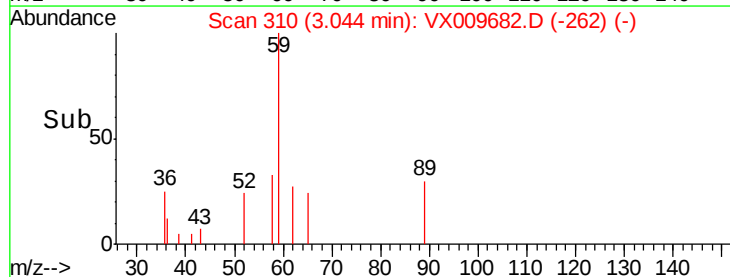
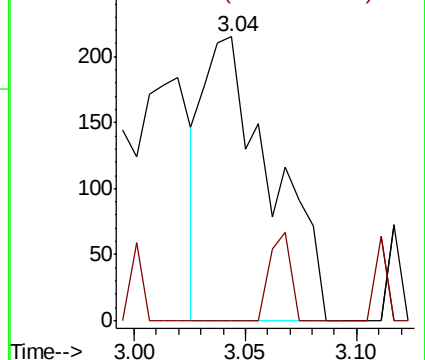
59 100

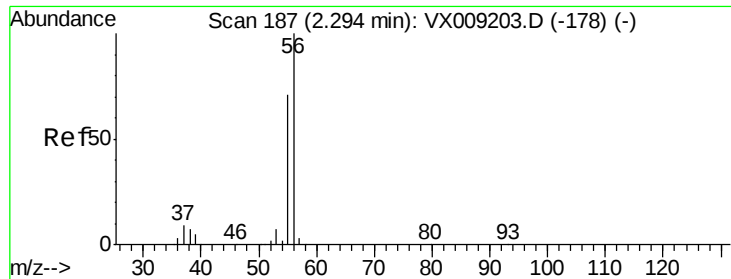
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.713 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

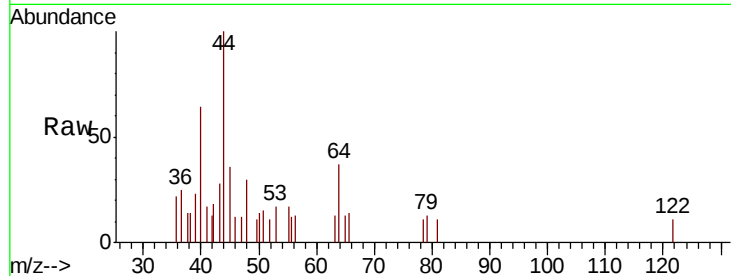
SS052MW726-190515

Tot Ion: 56 Resp: 325

Ion Ratio Lower Upper

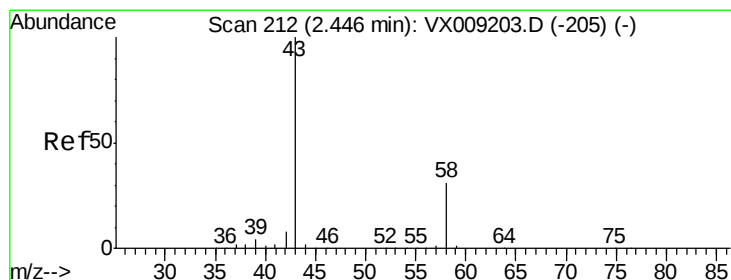
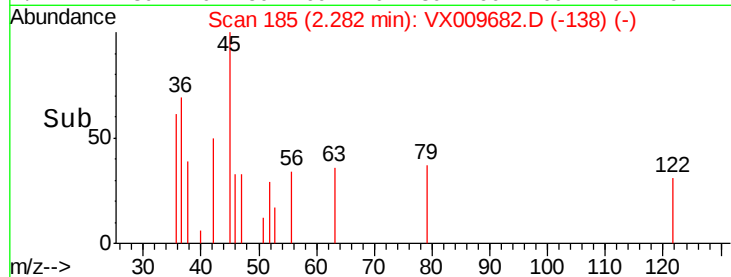
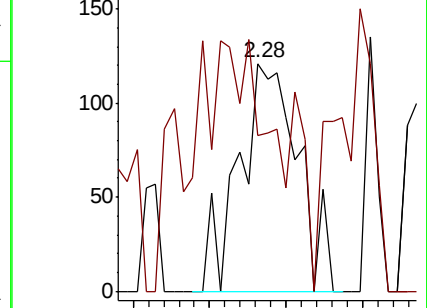
56 100

55 120.9 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: 1.547 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009682.D

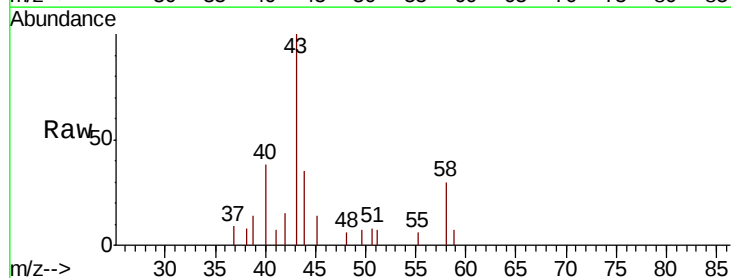
Acq: 17 May 2019 23:14

Tgt Ion: 43 Resp: 1807

Ion Ratio Lower Upper

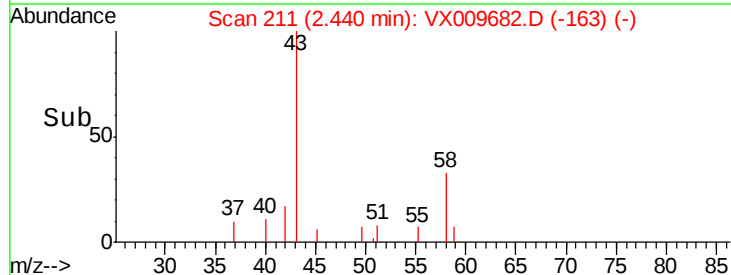
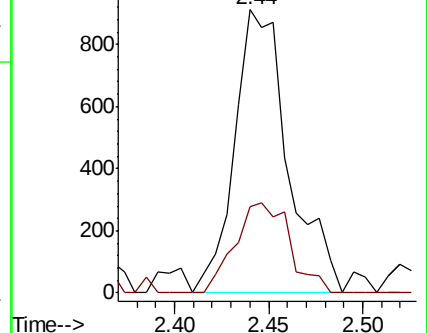
43 100

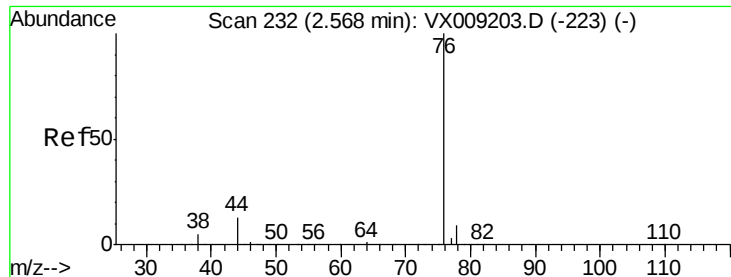
58 30.4 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.299 ug/l

RT: 2.59 min Scan# 235

Delta R.T. 0.02 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

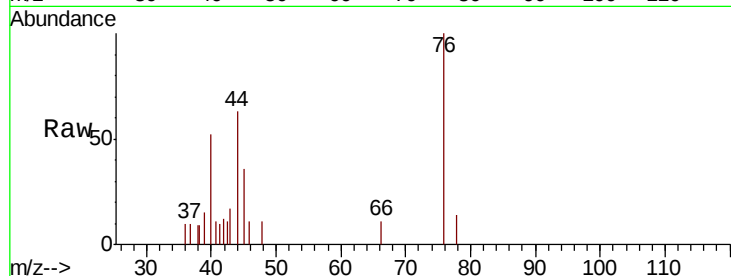
SS052MW726-190515

Tot Ion: 76 Resp: 1254

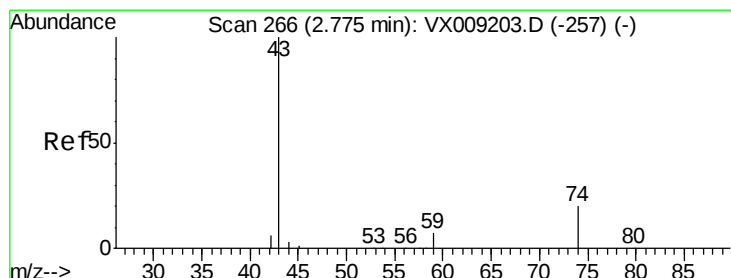
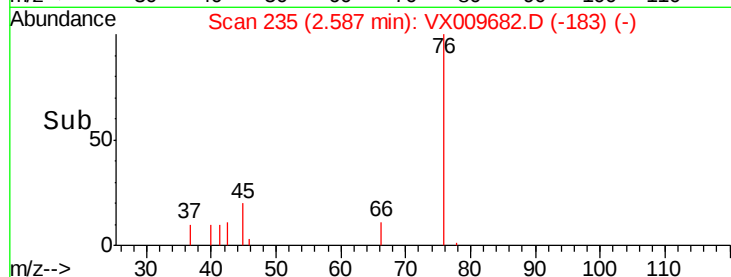
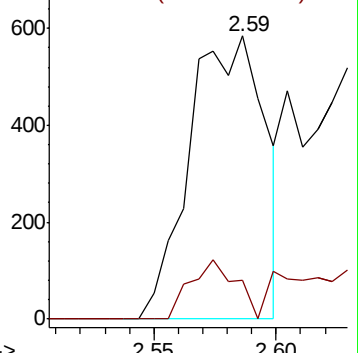
Ion Ratio Lower Upper

76 100

78 13.7 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0



#18

Methyl Acetate

Concen: 0.223 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX009682.D

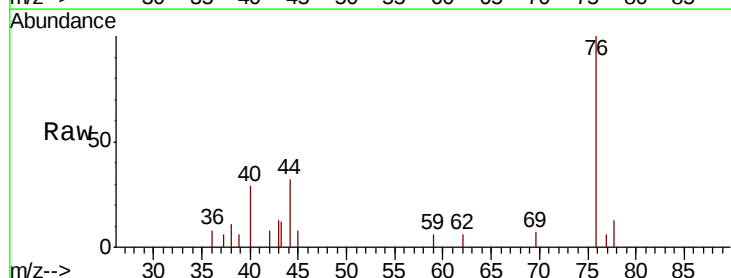
Acq: 17 May 2019 23:14

Tgt Ion: 43 Resp: 620

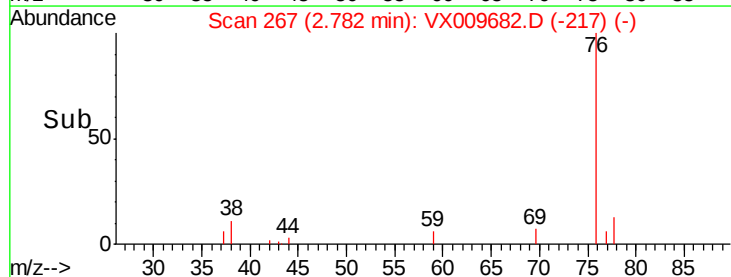
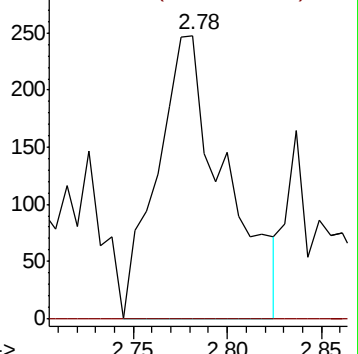
Ion Ratio Lower Upper

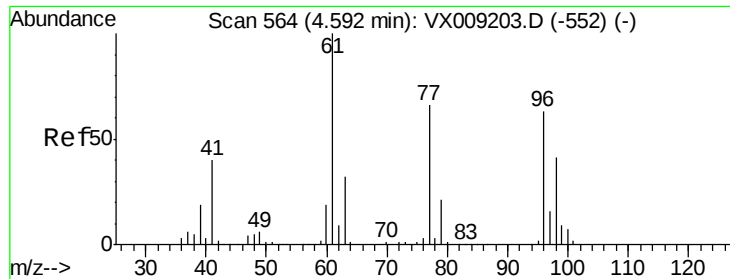
43 100

74 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0



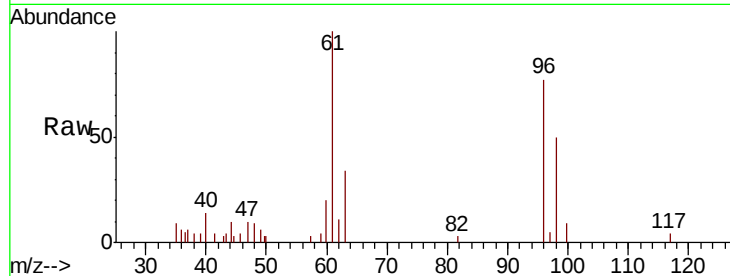


#27

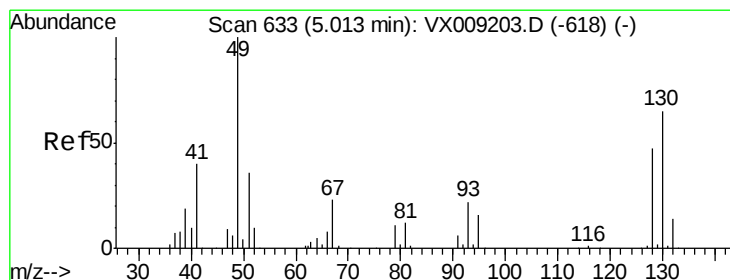
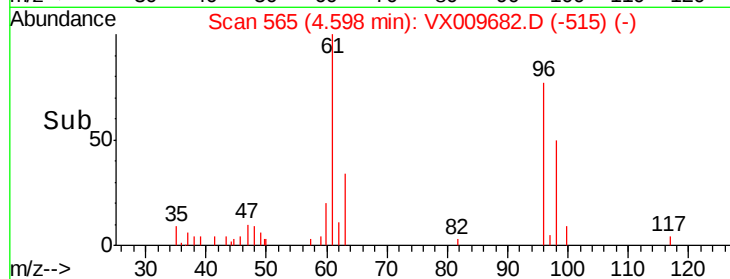
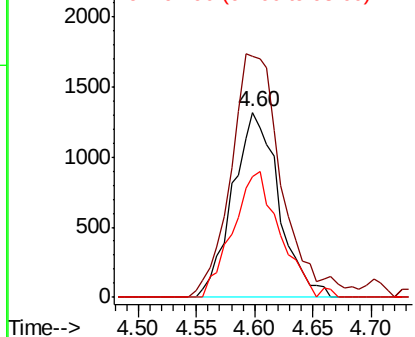
cis-1,2-Dichloroethene
 Concen: 1.876 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX009682.D
 Acq: 17 May 2019 23:14

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW726-190515

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.2	0.0	324.0
98	68.5	0.0	130.4



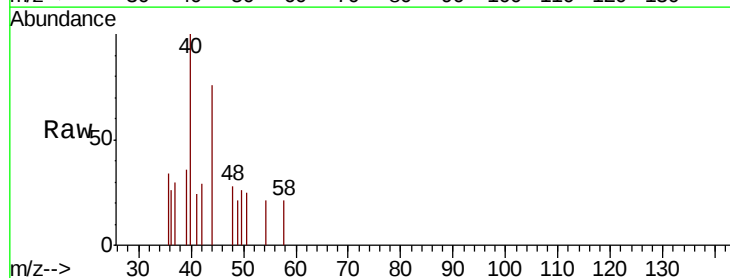
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



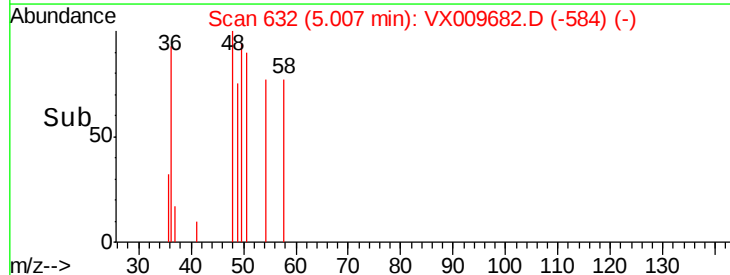
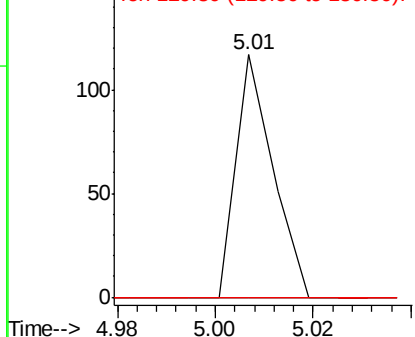
#28

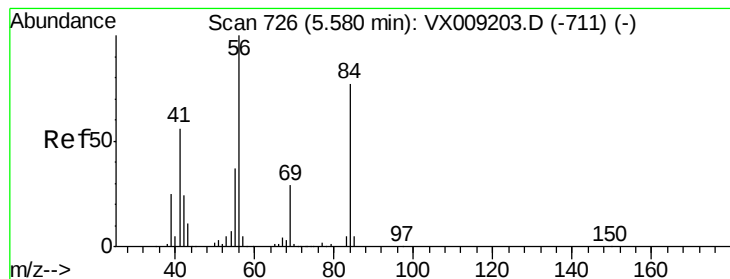
Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: VX009682.D
 Acq: 17 May 2019 23:14

Tgt 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: 1.083 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW726-190515

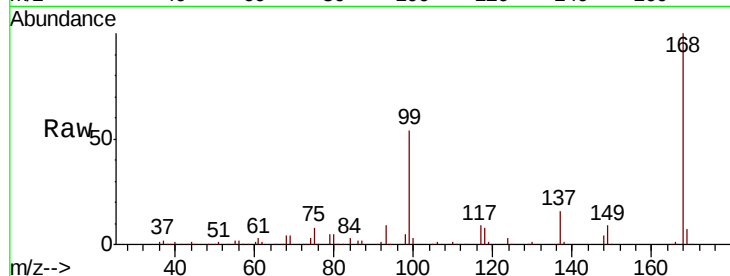
Tot Ion: 56 Resp: 3483

Ion Ratio Lower Upper

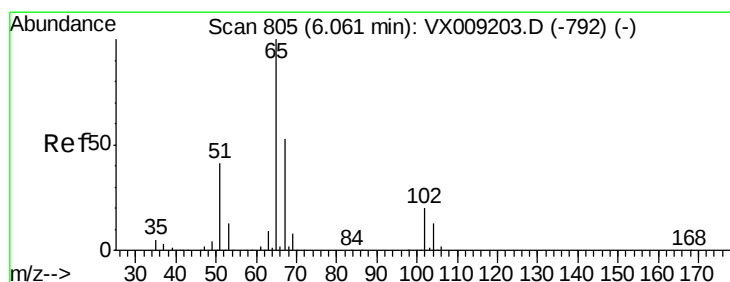
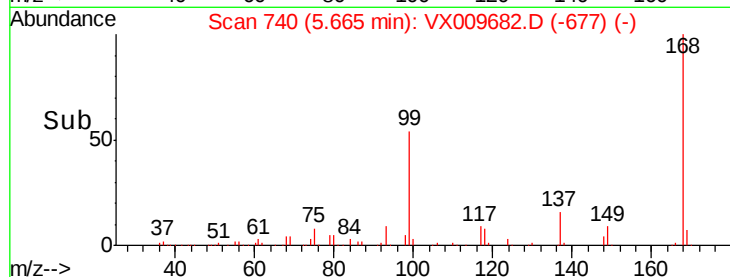
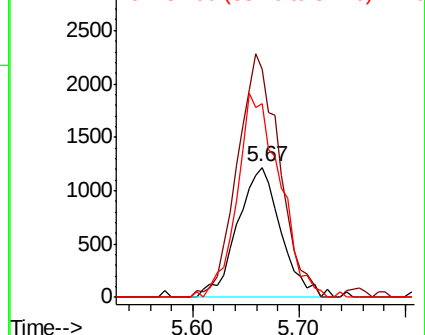
56 100

69 175.0 23.4 35.0#

84 148.6 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: 49.459 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009682.D

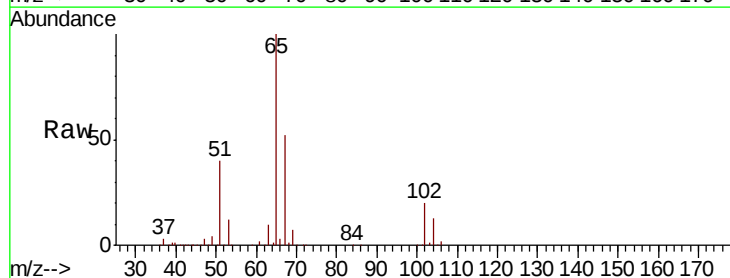
Acq: 17 May 2019 23:14

Tgt Ion: 65 Resp: 107581

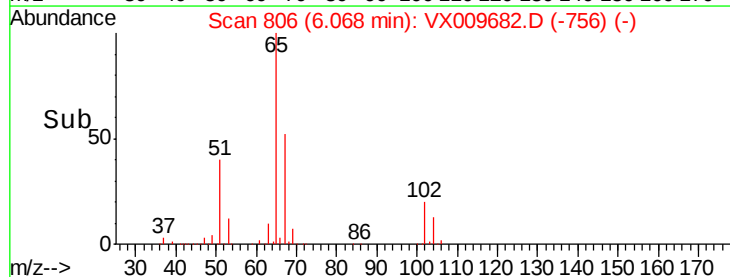
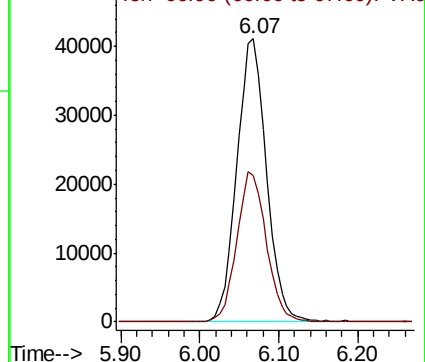
Ion Ratio Lower Upper

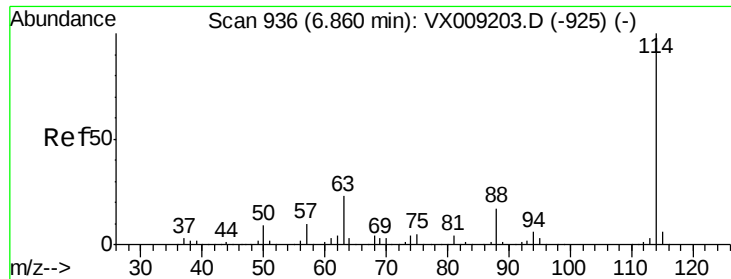
65 100

67 52.9 0.0 106.6



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

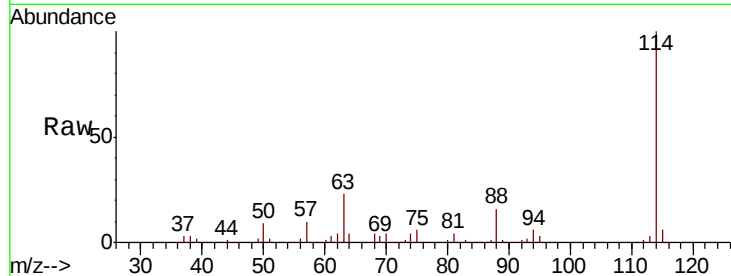




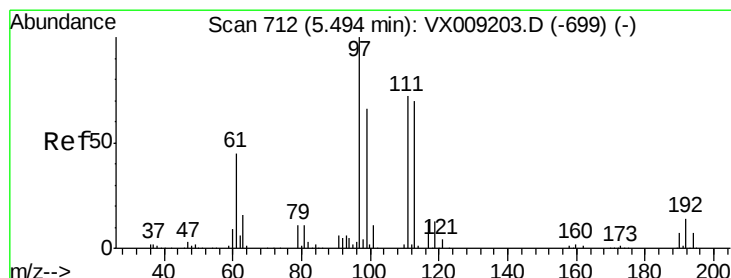
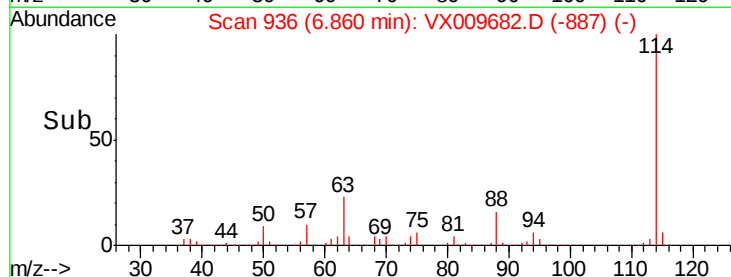
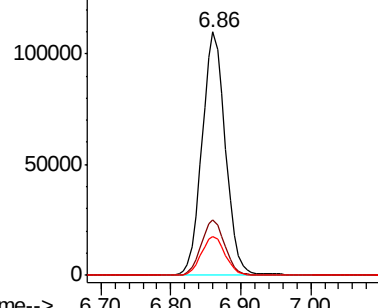
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009682.D
 Acq: 17 May 2019 23:14

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW726-190515

Tot Ion:114 Resp: 255201
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 45.6
 88 16.0 0.0 33.2

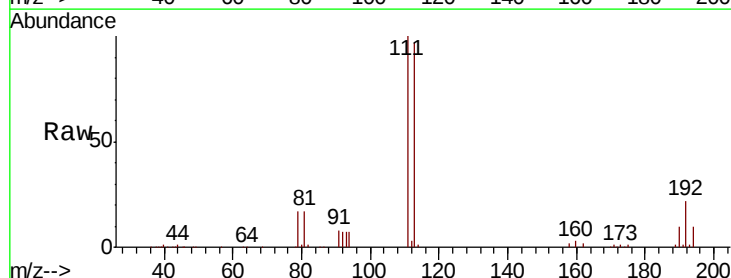


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

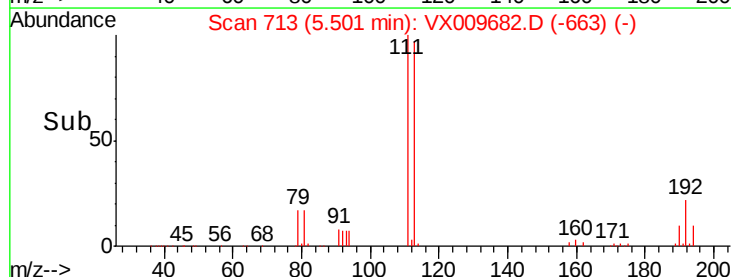
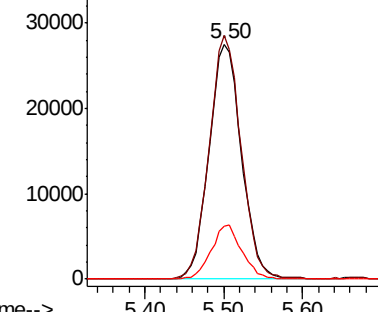


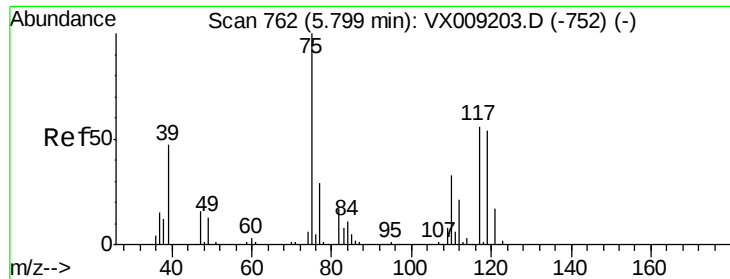
#35
 Dibromofluoromethane
 Concen: 49.147 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009682.D
 Acq: 17 May 2019 23:14

Tgt Ion:113 Resp: 78847
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.8 124.2
 192 21.8 17.0 25.6



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: 5.251 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW726-190515

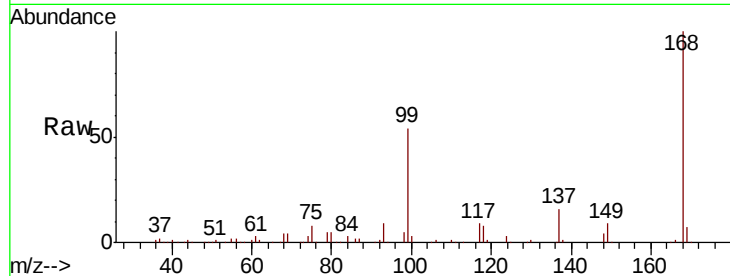
Tot Ion: 75 Resp: 12453

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.6#

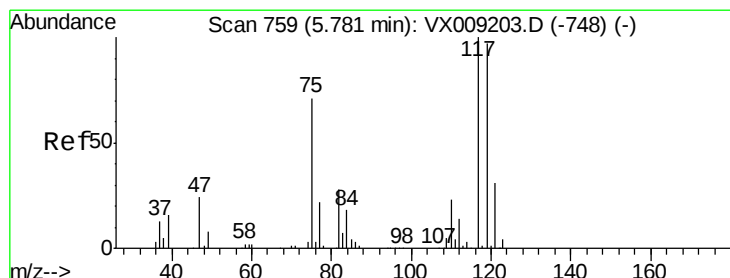
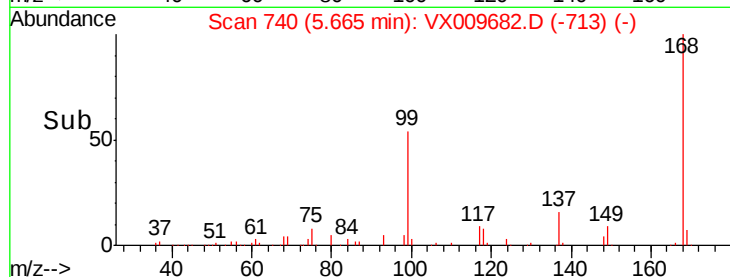
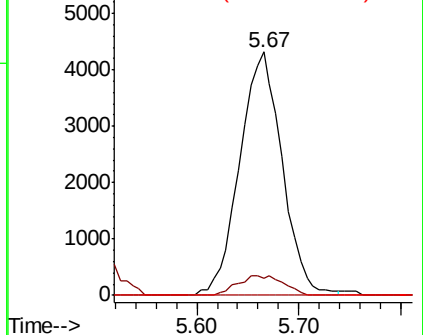
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.023 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

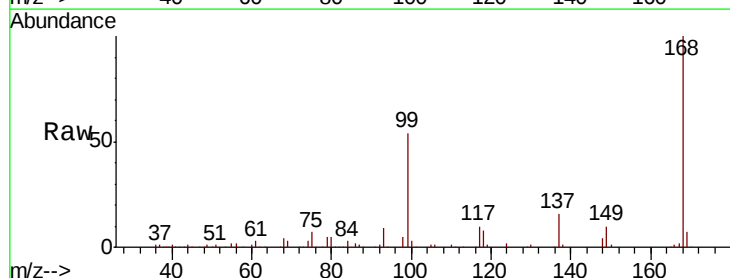
Tgt Ion: 117 Resp: 15134

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

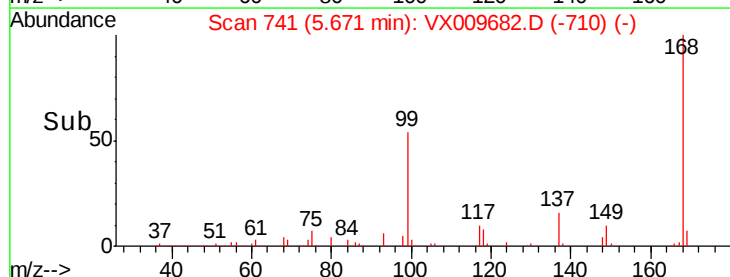
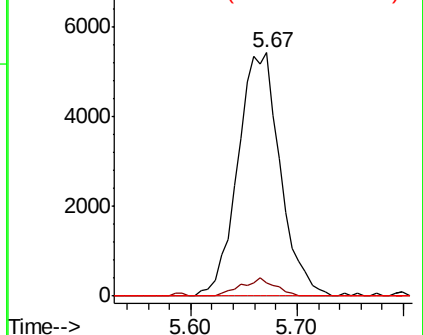
121 0.0 24.7 37.1#

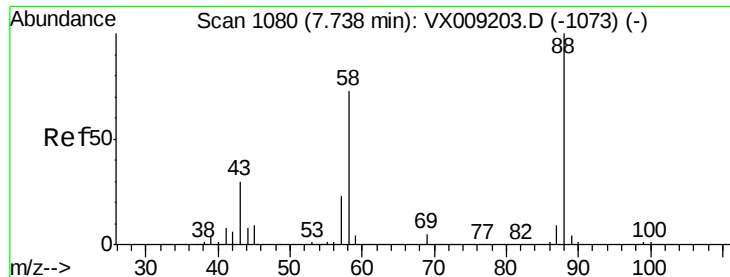


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.395 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW726-190515

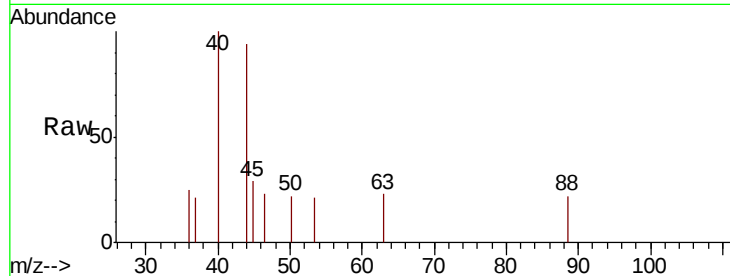
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 228.6 28.6 42.8#

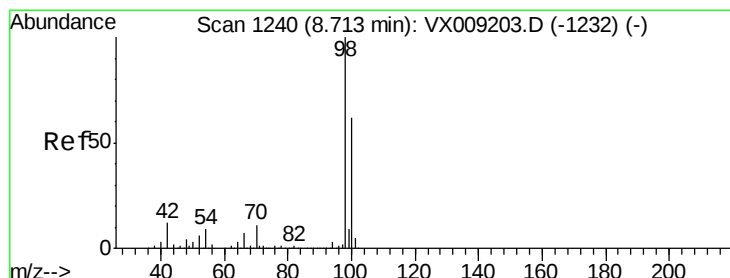
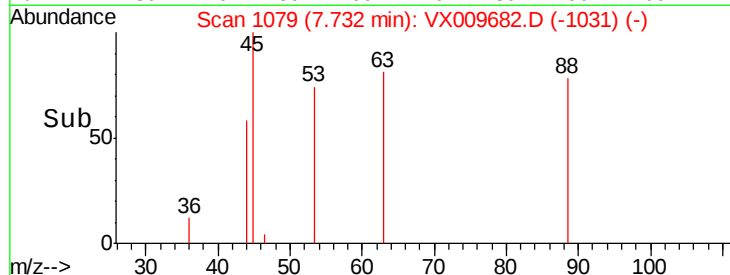
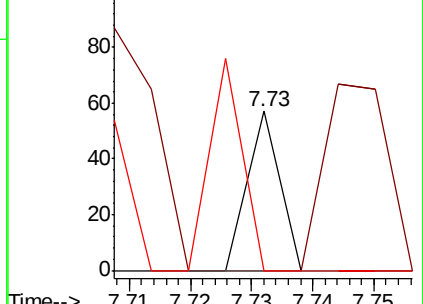
58 133.3 61.7 92.5#



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



#50

Toluene-d8

Concen: 49.399 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009682.D

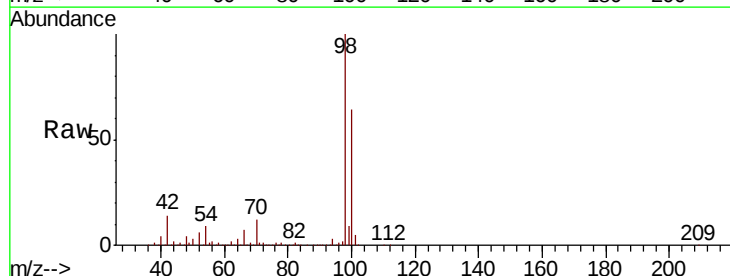
Acq: 17 May 2019 23:14

Tgt Ion: 98 Resp: 319956

Ion Ratio Lower Upper

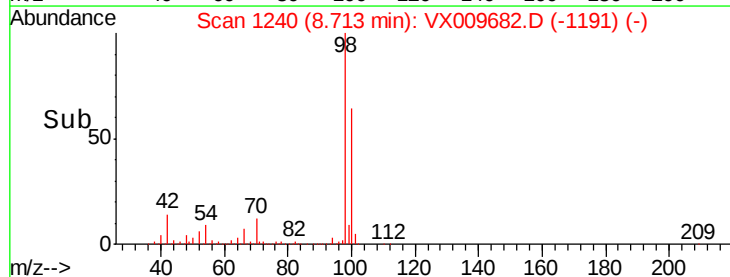
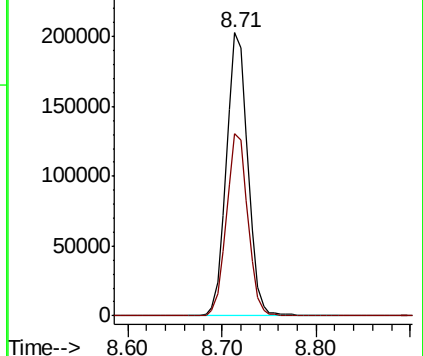
98 100

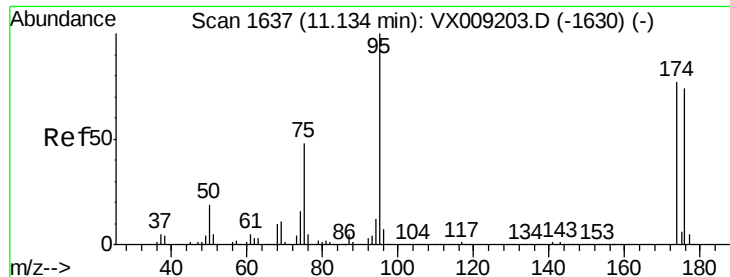
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.232 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW726-190515

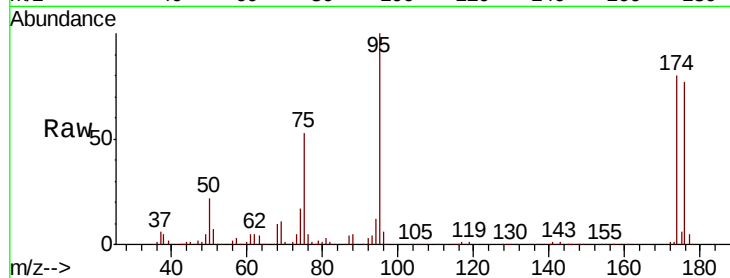
Tot Ion: 95 Resp: 101746

Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

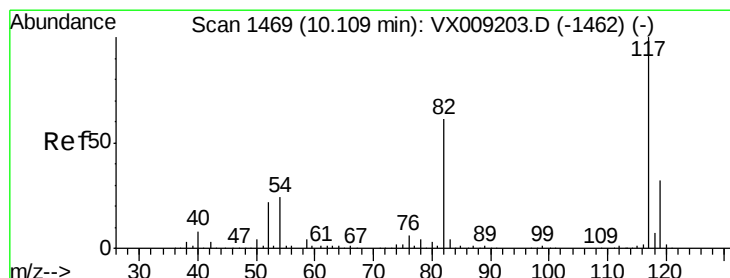
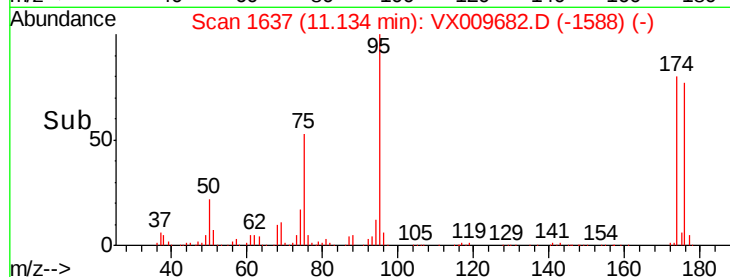
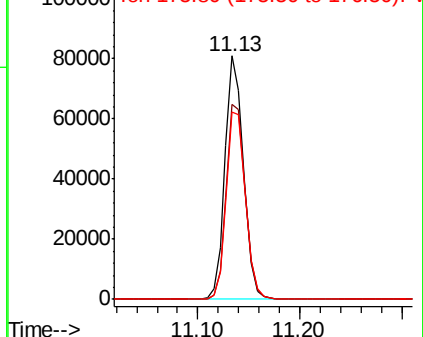
176 79.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009682.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009682.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009682.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

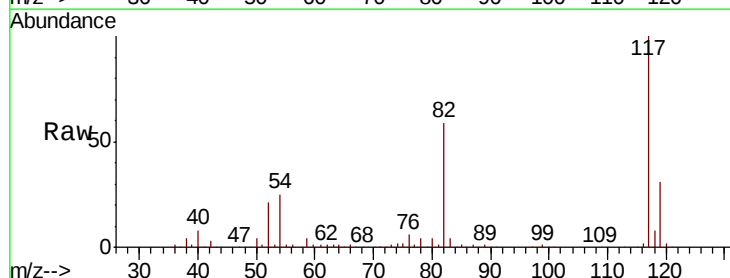
Tgt Ion: 117 Resp: 222017

Ion Ratio Lower Upper

117 100

82 59.4 48.8 73.2

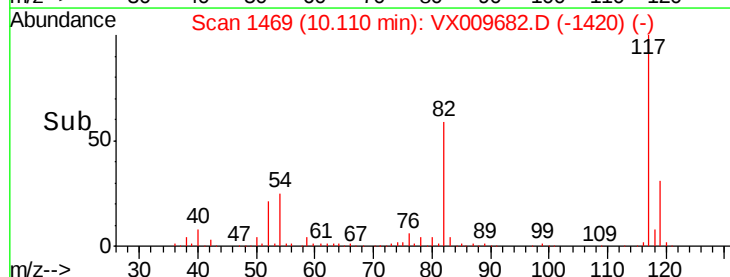
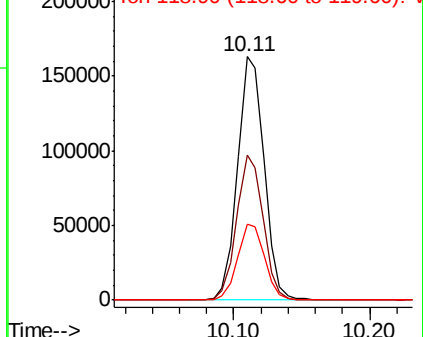
119 31.3 25.8 38.6

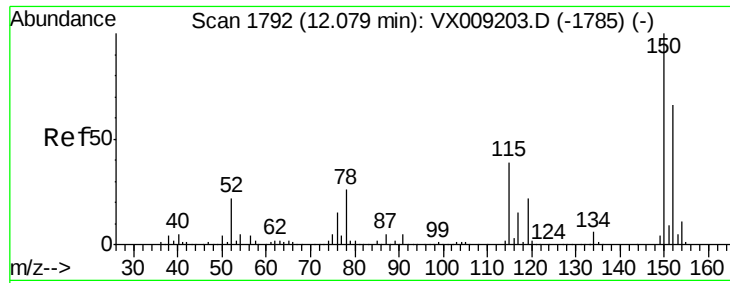


Abundance Ion 116.90 (116.60 to 117.60): VX009682.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009682.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009682.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: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW726-190515

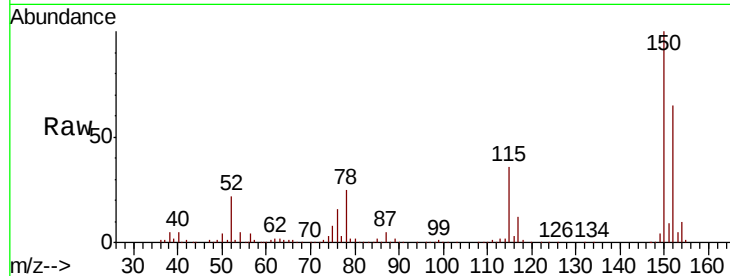
Tot Ion:152 Resp: 88637

Ion Ratio Lower Upper

152 100

115 58.4 41.2 123.6

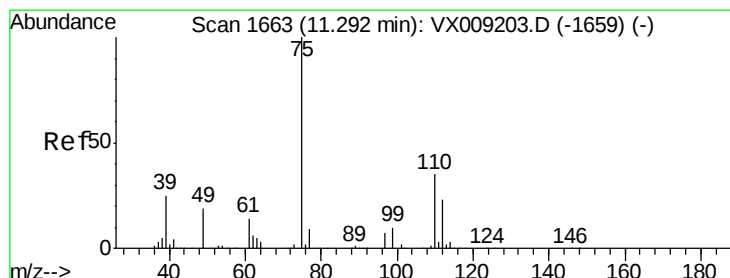
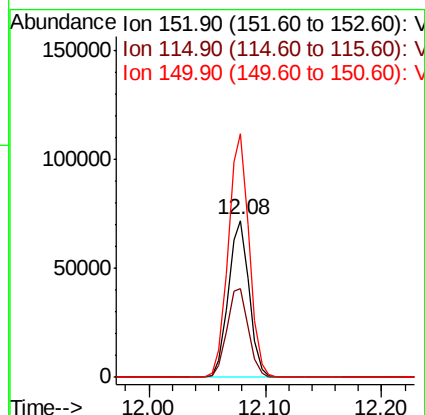
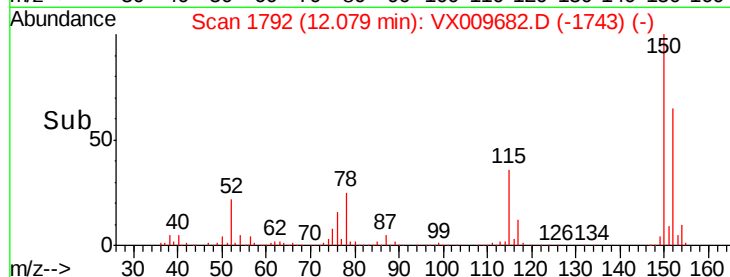
150 155.8 0.0 346.4



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: 25.448 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009682.D

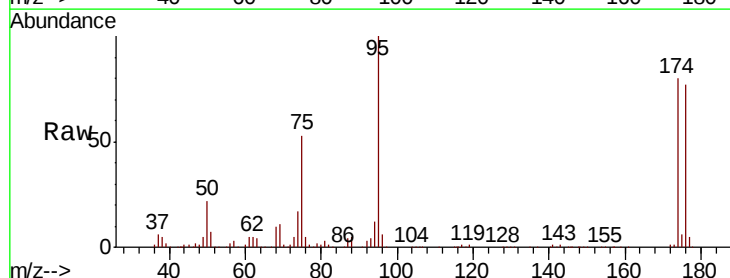
Acq: 17 May 2019 23:14

Tgt Ion: 75 Resp: 52322

Ion Ratio Lower Upper

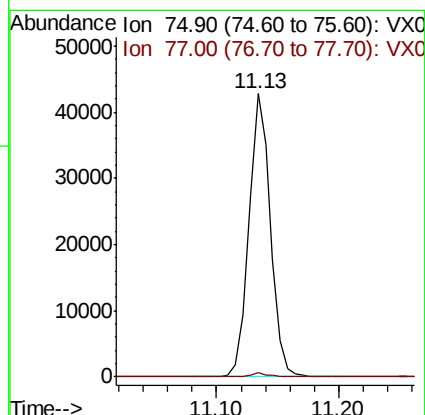
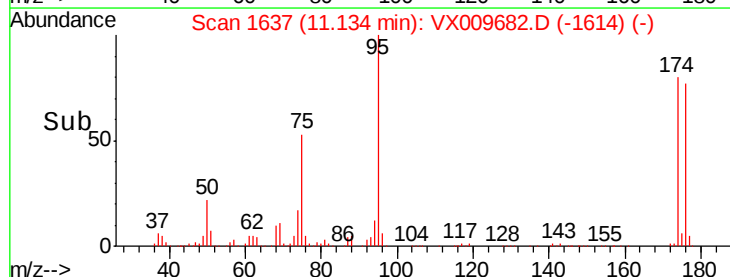
75 100

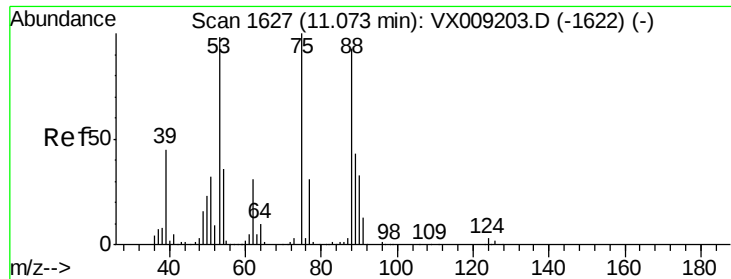
77 1.1 22.1 66.1#



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: 65.112 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009682.D

Acq: 17 May 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SS052MW726-190515

Tot Ion: 75 Resp: 52322

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#

