

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040519\
 Data File : VX008692.D
 Acq On : 05 Apr 2019 19:19
 Operator : JC/SP
 Sample : K2274-08DL 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW149-190402DL

Quant Time: Apr 06 01:26:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	204681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	339259	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	286488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118022	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	139713	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
35) Dibromofluoromethane	5.50	113	102924	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
50) Toluene-d8	8.71	98	423100	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
62) 4-Bromofluorobenzene	11.13	95	139699	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

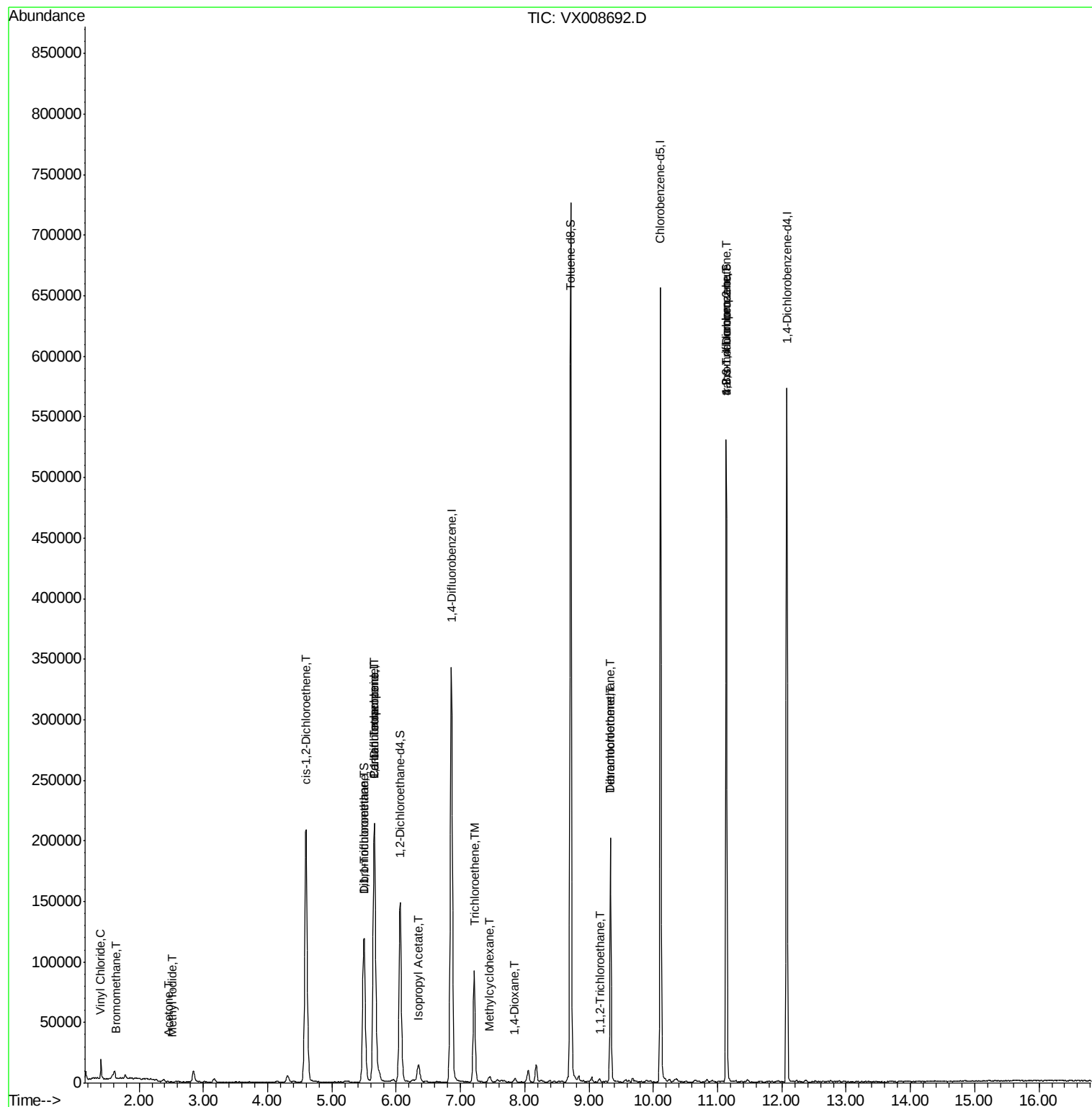
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	401	Below Cal		100
4) Vinyl Chloride	1.40	62	10649	3.344	ug/l	96
5) Bromomethane	1.64	94	382	2.120	ug/l #	66
6) Chloroethane	1.73	64	1063	Below Cal	#	43
10) Methyl Iodide	2.52	142	28	4.016	ug/l #	42
16) Acetone	2.45	43	393	0.229	ug/l #	72
17) Carbon Disulfide	2.57	76	619	Below Cal	#	75
27) cis-1,2-Dichloroethene	4.60	96	130138	44.223	ug/l	89
28) Bromochloromethane	5.00	49	41	Below Cal	#	22
32) 1,1,1-Trichloroethane	5.50	97	1103	0.296	ug/l #	41
36) 1,1-Dichloropropene	5.66	75	16789	4.527	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19666	6.407	ug/l #	16
39) Methylcyclohexane	7.46	83	1559	0.340	ug/l #	89
43) Isopropyl Acetate	6.35	43	3643	0.470	ug/l #	62
44) Trichloroethene	7.21	130	33798	13.135	ug/l	99
49) 1,4-Dioxane	7.83	88	20	0.272	ug/l #	1
55) 1,1,2-Trichloroethane	9.16	97	933	0.357	ug/l #	18
60) Dibromochloromethane	9.34	129	37266	15.126	ug/l #	11
64) Tetrachloroethene	9.34	164	38282	18.036	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	71610	22.087	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	71610	60.884	ug/l #	9

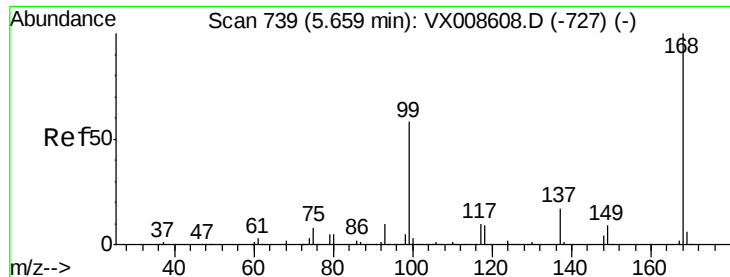
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

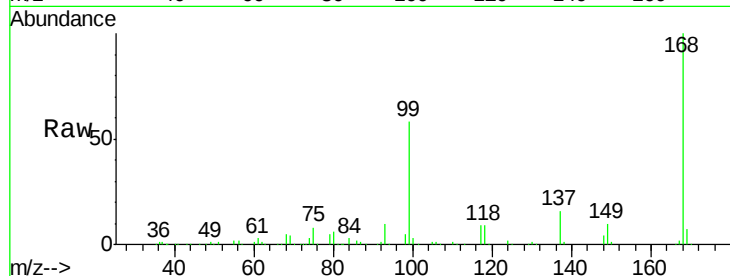
ST006RW149-190402DL

Tot Ion:168 Resp: 204681

Ion Ratio Lower Upper

168 100

99 57.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

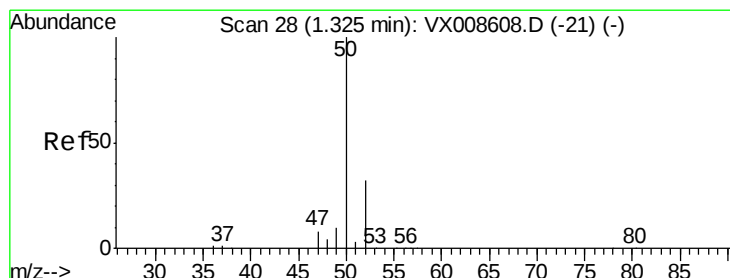
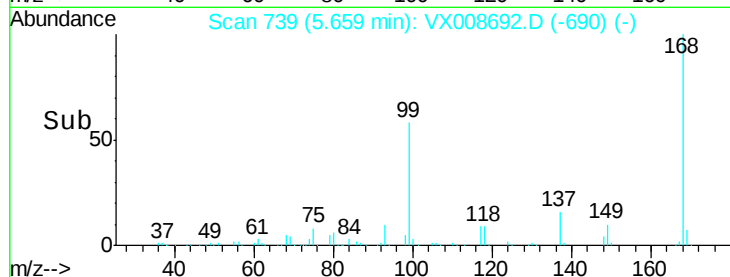
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX008692.D

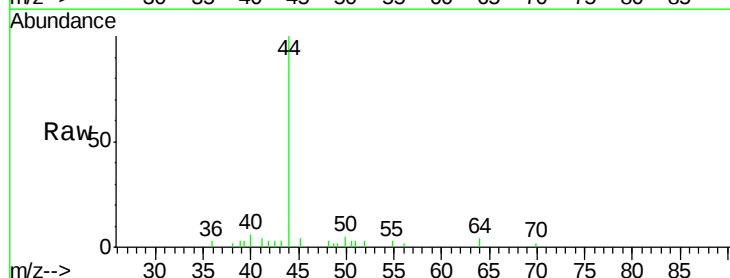
Acq: 05 Apr 2019 19:19

Tgt Ion: 50 Resp: 401

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

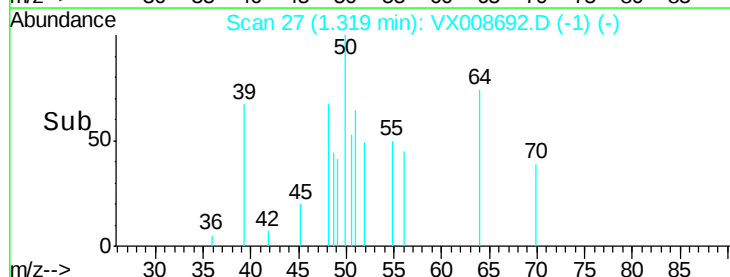
150

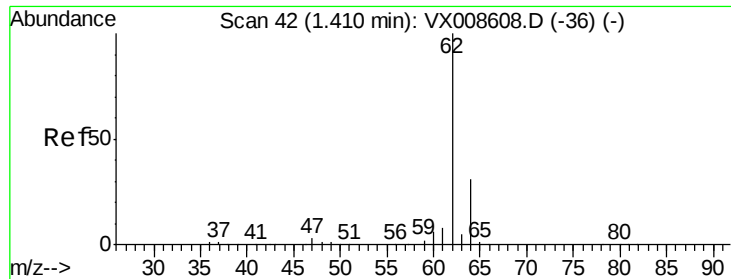
100

50

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 3.344 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

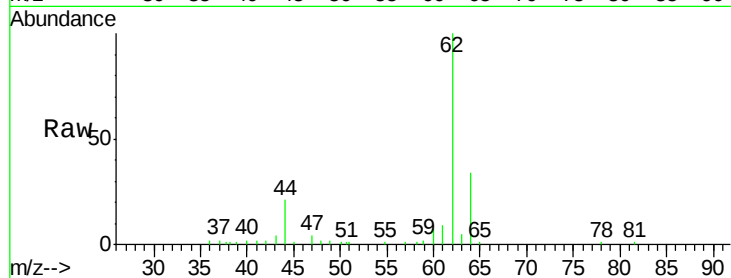
ST006RW149-190402DL

Tot Ion: 62 Resp: 10649

Ion Ratio Lower Upper

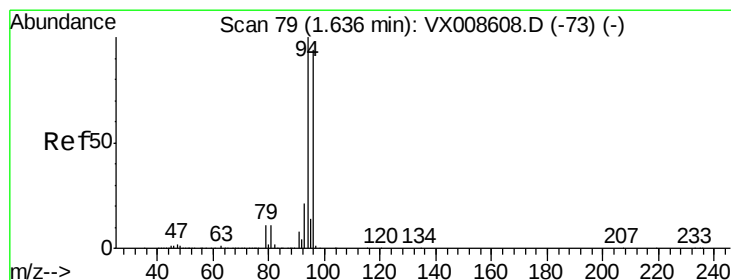
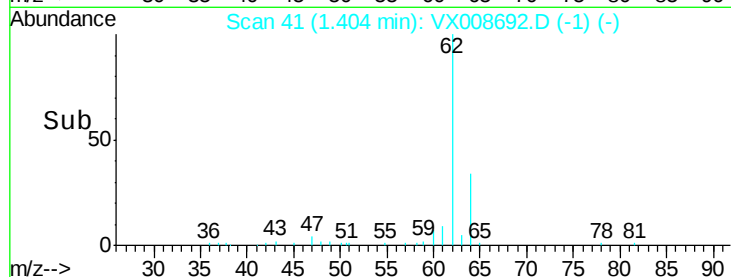
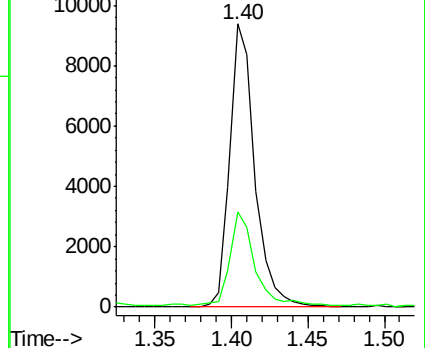
62 100

64 33.0 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.120 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008692.D

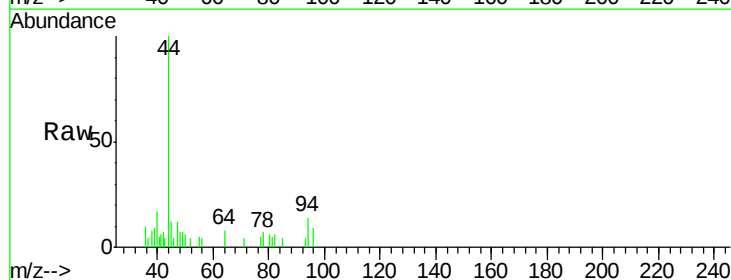
Acq: 05 Apr 2019 19:19

Tgt Ion: 94 Resp: 382

Ion Ratio Lower Upper

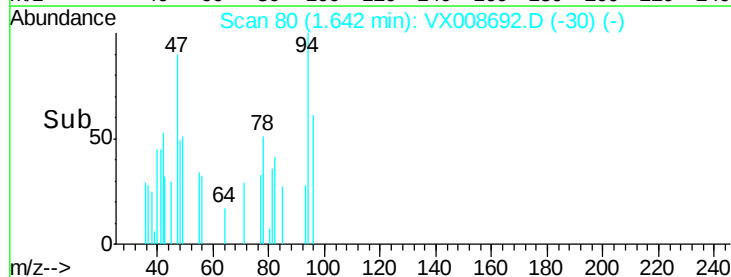
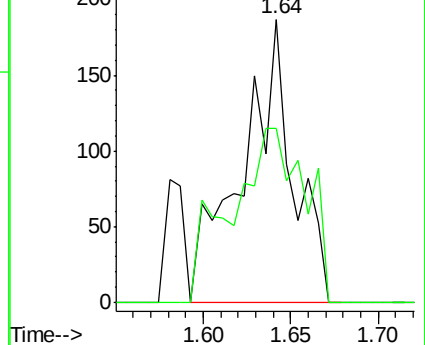
94 100

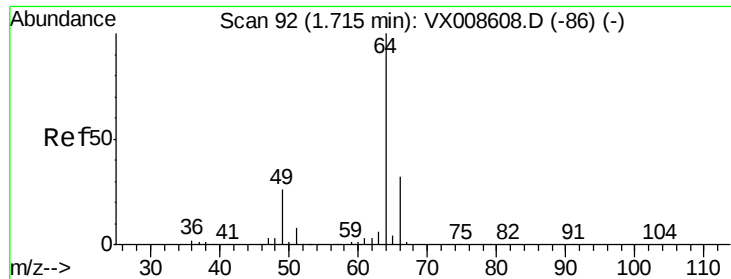
96 61.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

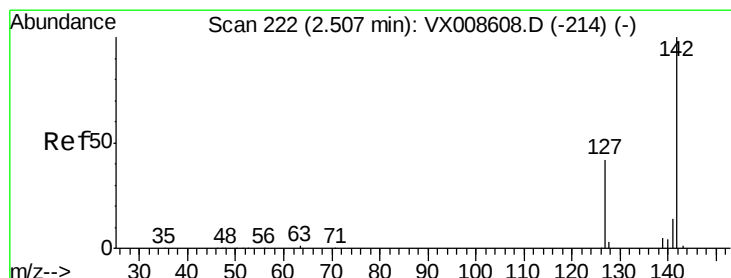
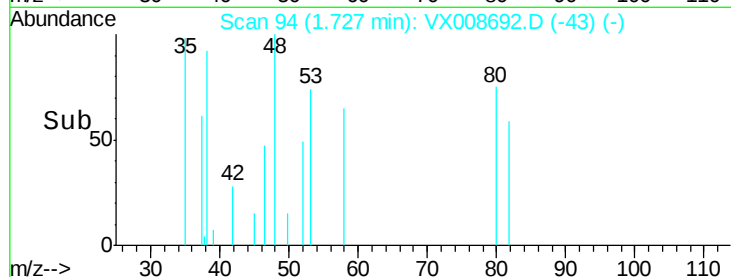
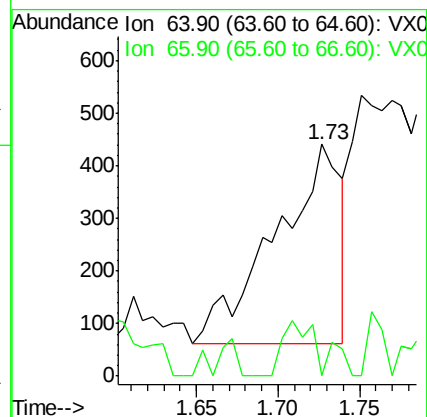
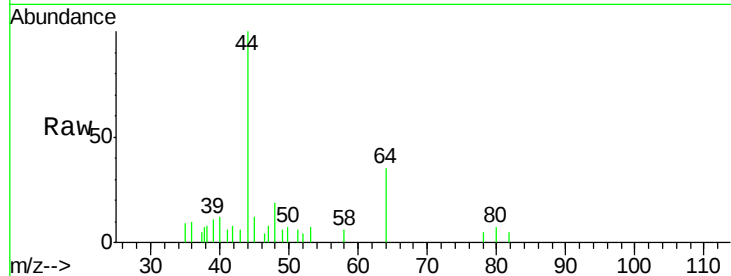
ST006RW149-190402DL

Tot Ion: 64 Resp: 1063

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



#10

Methyl Iodide

Concen: 4.016 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

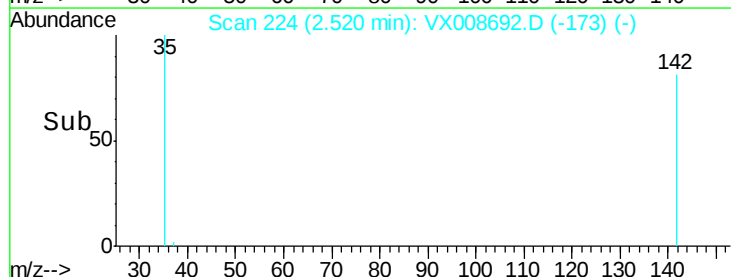
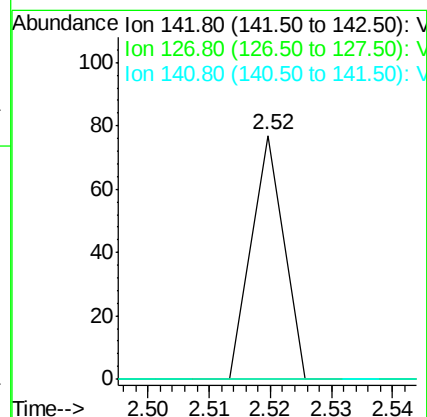
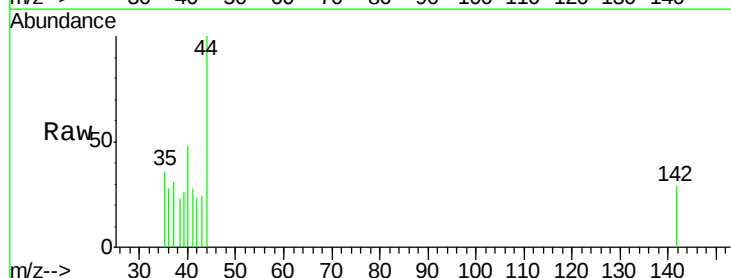
Tgt Ion: 142 Resp: 28

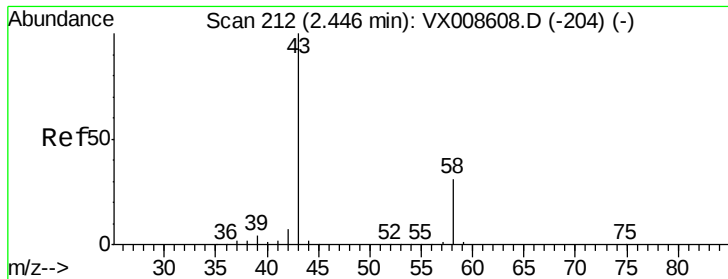
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#





#16

Acetone

Concen: 0.229 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

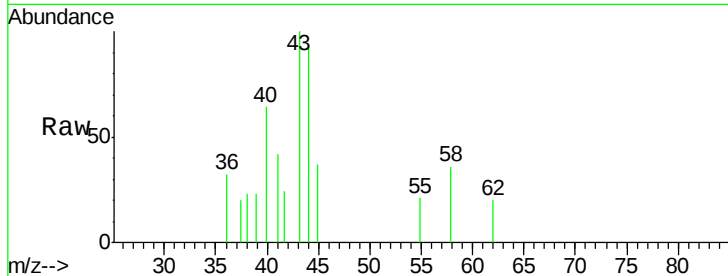
ST006RW149-190402DL

Tot Ion: 43 Resp: 393

Ion Ratio Lower Upper

43 100

58 46.2 24.8 37.2#



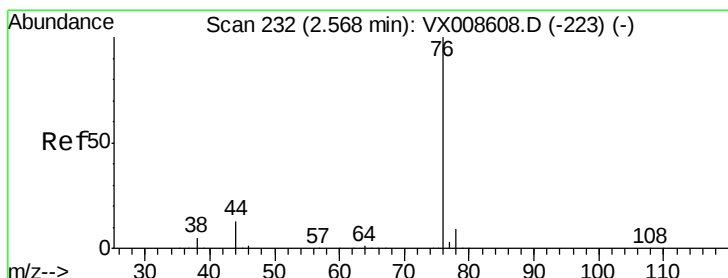
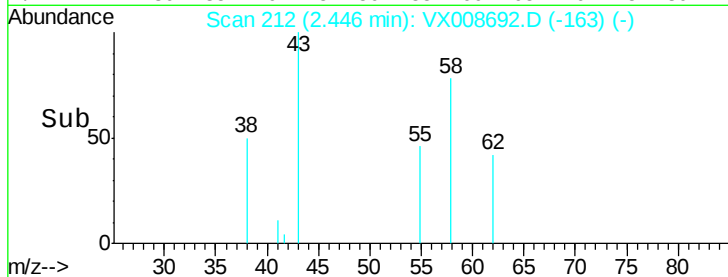
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2.42 2.44 2.46 2.48

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008692.D

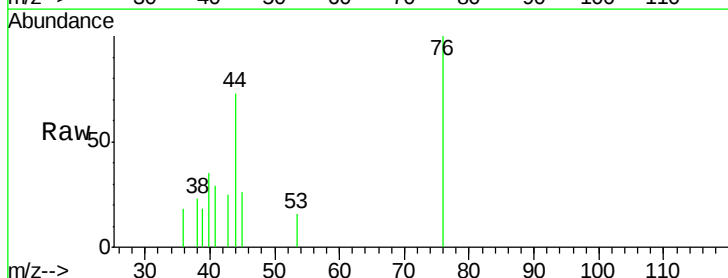
Acq: 05 Apr 2019 19:19

Tgt Ion: 76 Resp: 619

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



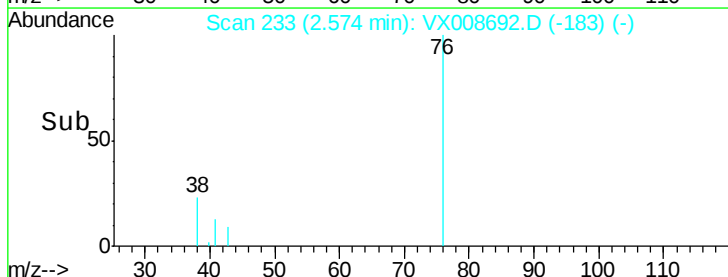
Abundance Ion 75.90 (75.60 to 76.60): VX0

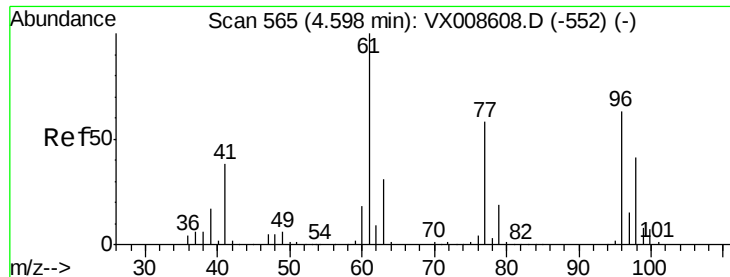
Ion 77.90 (77.60 to 78.60): VX0

2.57

2.55 2.57 2.59 2.61

Time-->



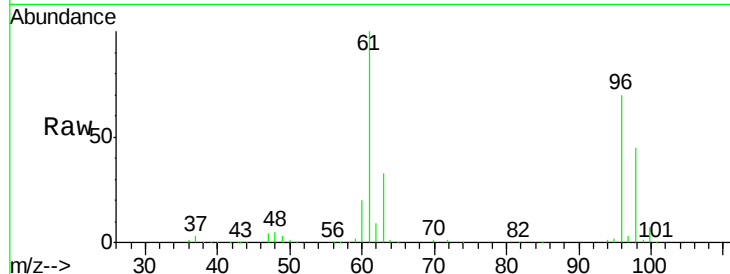


#27

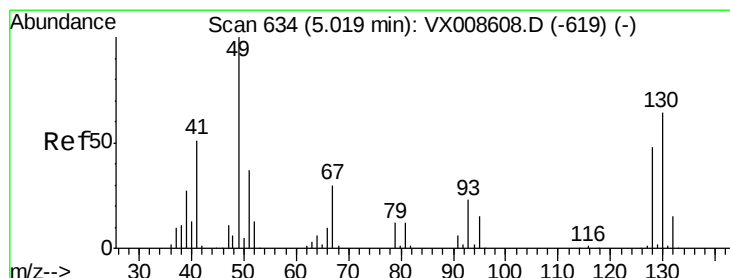
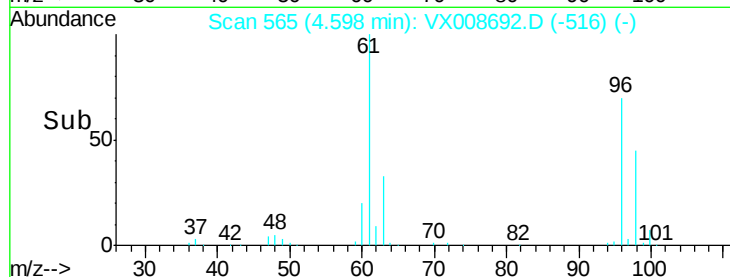
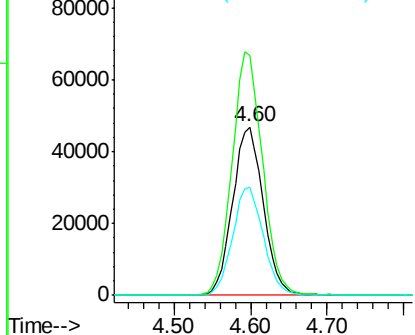
cis-1,2-Dichloroethene
 Concen: 44.223 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW149-190402DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.9	0.0	327.6
98	64.4	0.0	128.6



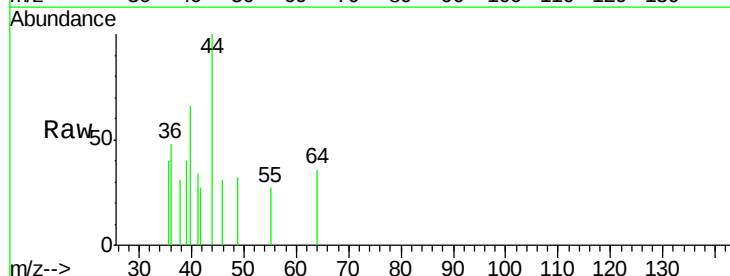
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



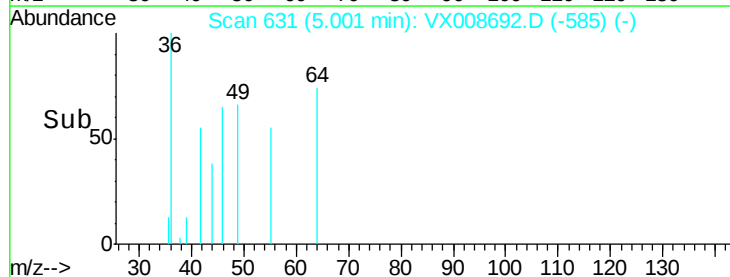
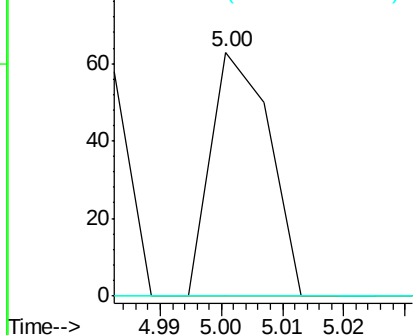
#28

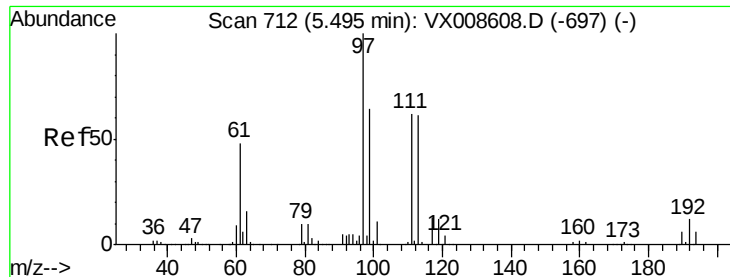
Bromochloromethane
 Concen: Below Cal
 RT: 5.00 min Scan# 631
 Delta R.T. -0.02 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



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





#32

1,1,1-Trichloroethane

Concen: 0.296 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402DL

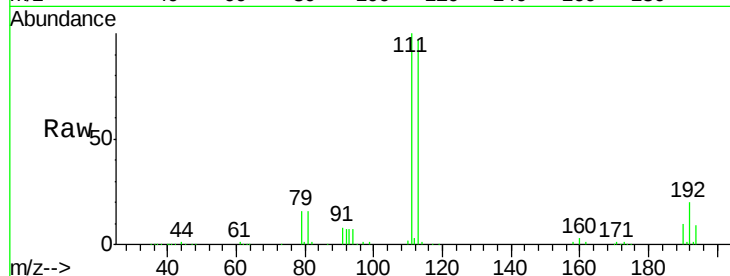
Tot Ion: 97 Resp: 1103

Ion Ratio Lower Upper

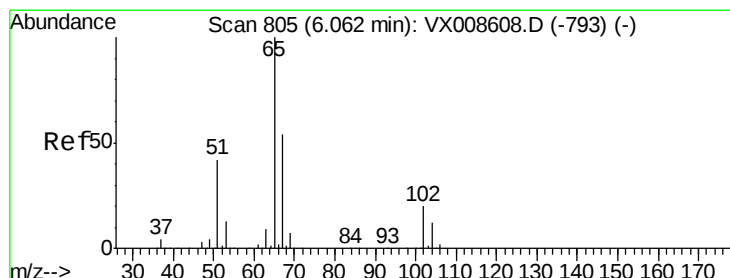
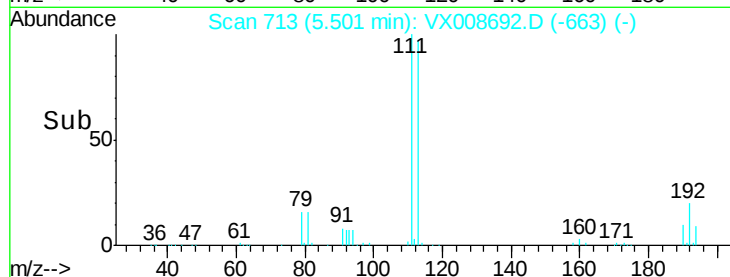
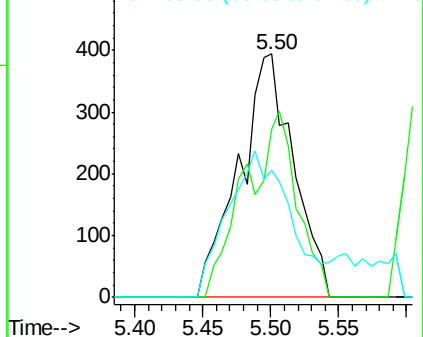
97 100

99 0.0 51.3 76.9#

61 68.0 38.9 58.3#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.799 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008692.D

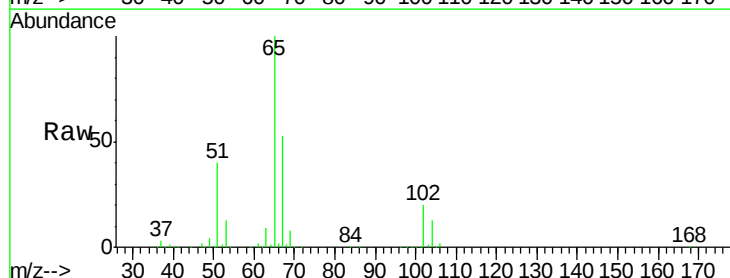
Acq: 05 Apr 2019 19:19

Tgt Ion: 65 Resp: 139713

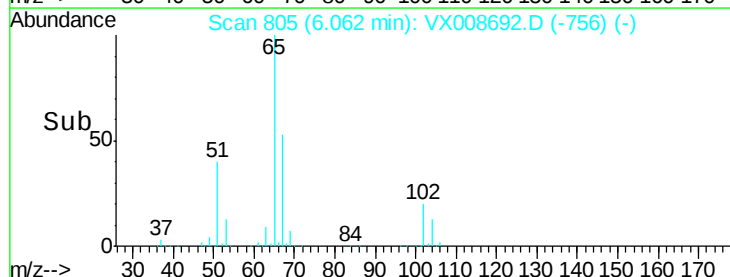
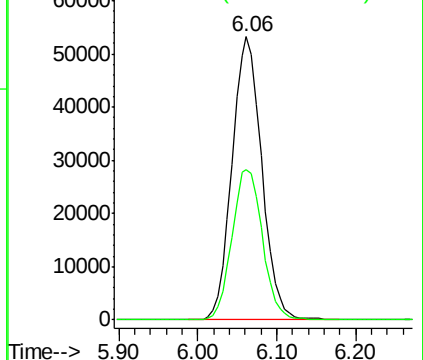
Ion Ratio Lower Upper

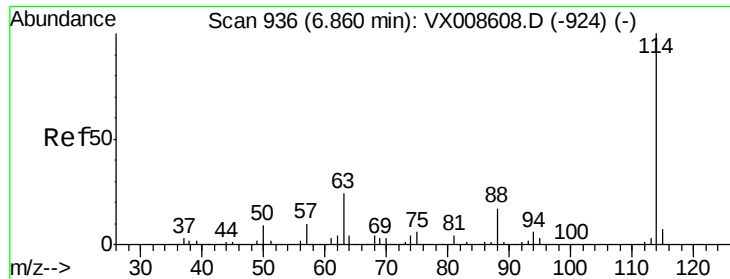
65 100

67 54.6 0.0 107.2



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

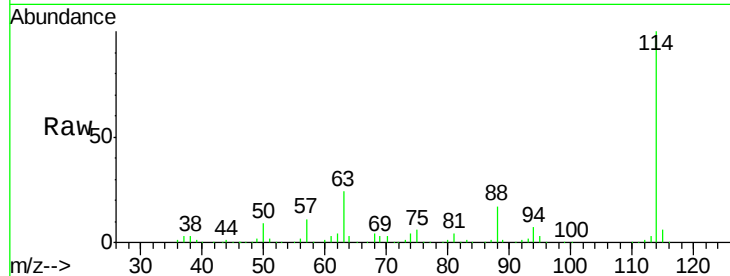




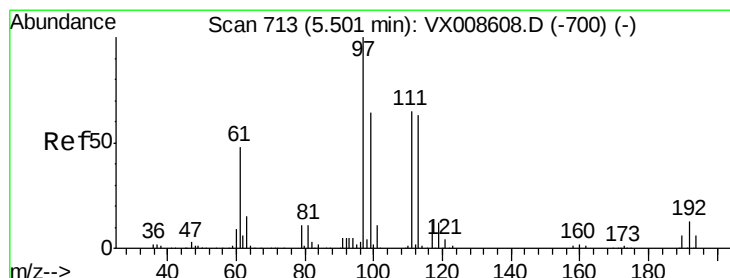
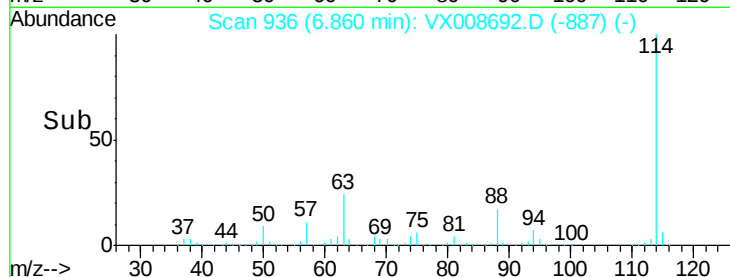
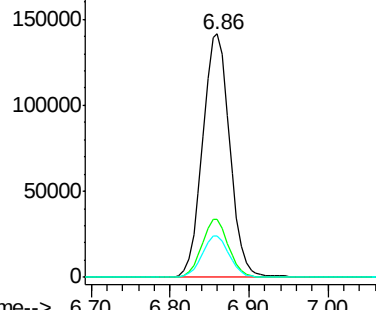
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW149-190402DL

Tot Ion:114 Resp: 339259
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 47.2
 88 17.0 0.0 34.0

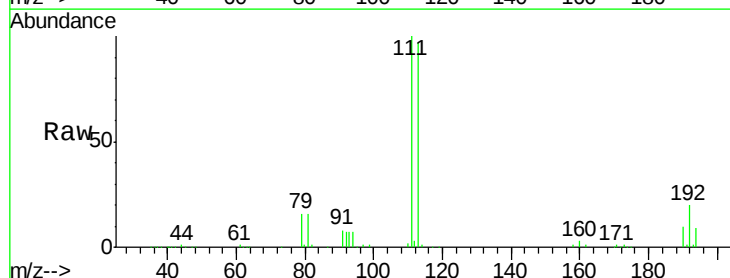


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

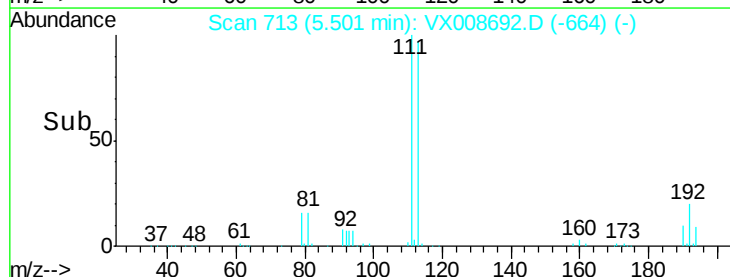
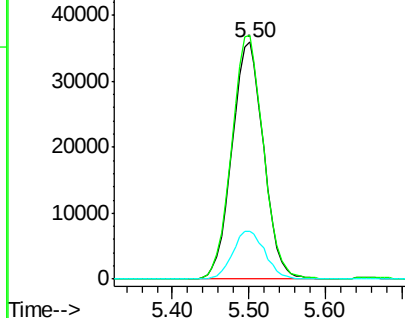


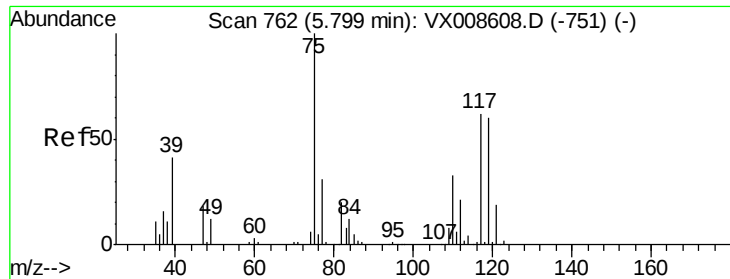
#35
 Dibromofluoromethane
 Concen: 47.450 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

Tgt Ion:113 Resp: 102924
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.4 125.2
 192 20.6 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

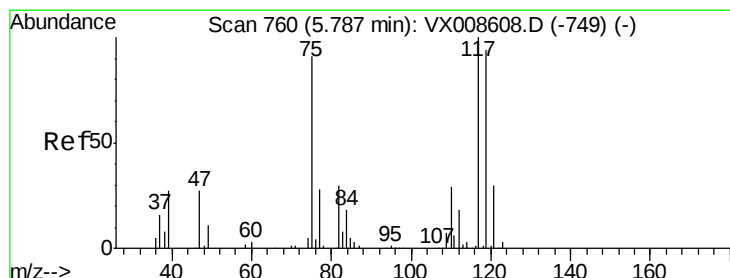
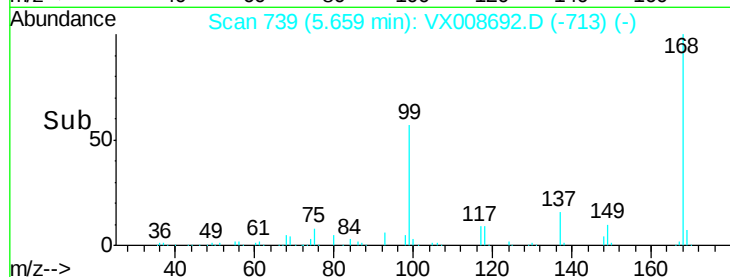
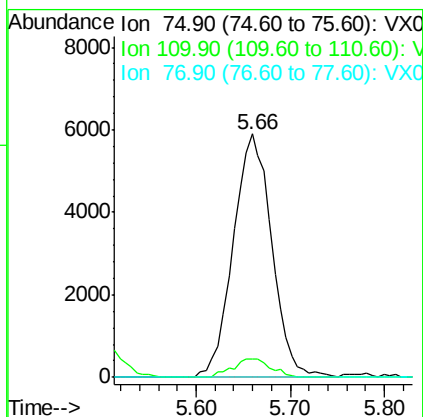
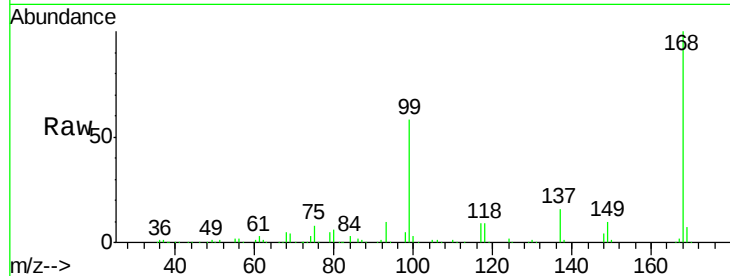




#36
 1,1-Dichloropropene
 Concen: 4.527 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

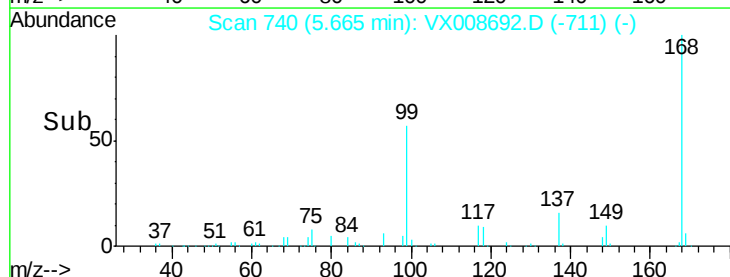
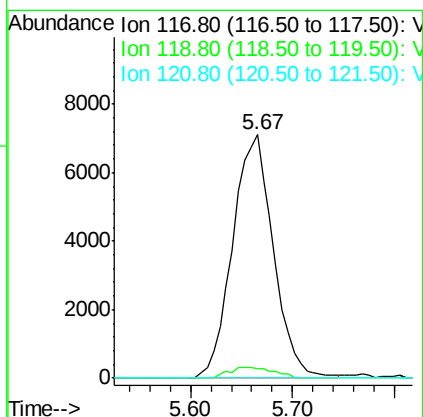
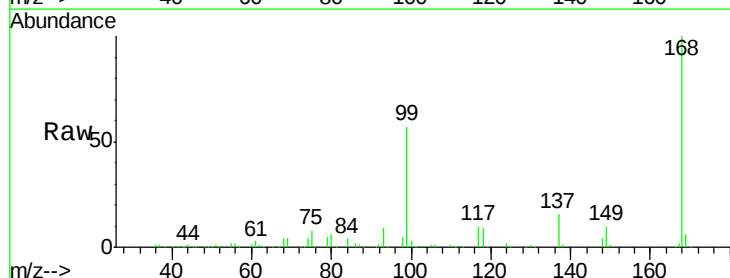
Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW149-190402DL

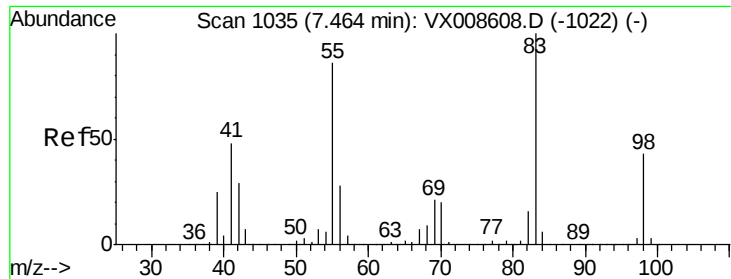
Tot Ion: 75 Resp: 16789
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.4 49.2#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.407 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

Tgt Ion: 117 Resp: 19666
 Ion Ratio Lower Upper
 117 100
 119 3.7 75.0 112.6#
 121 0.0 24.3 36.5#

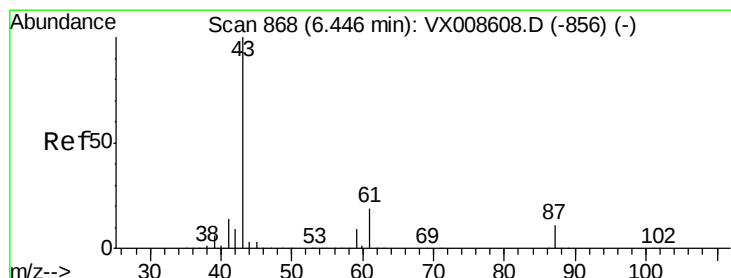
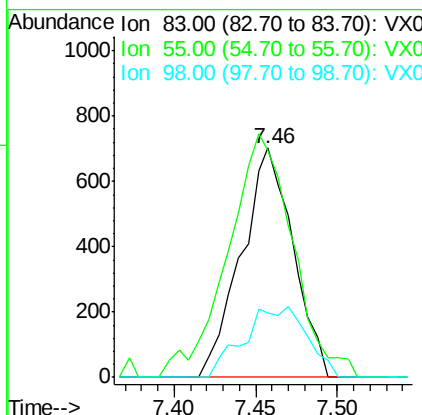
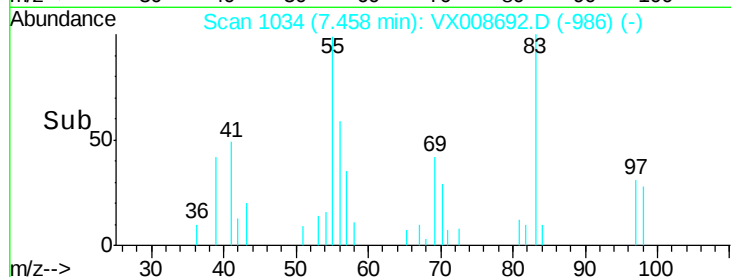
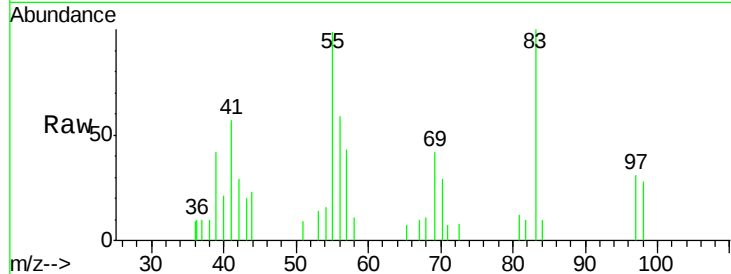




#39
Methylcyclohexane
Concen: 0.340 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX008692.D
Acq: 05 Apr 2019 19:19

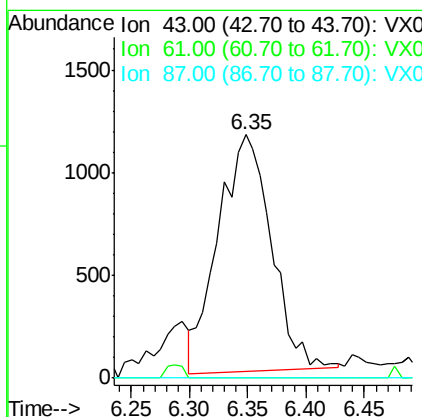
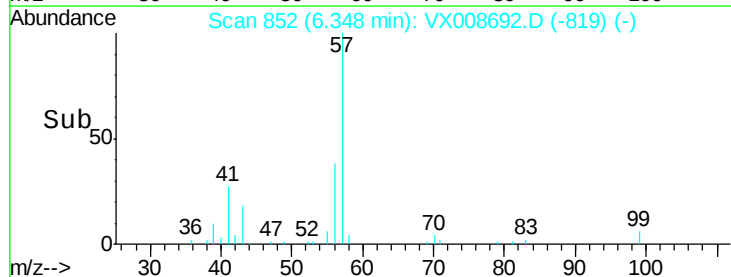
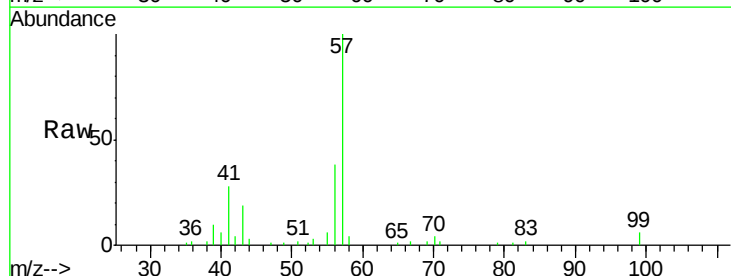
Instrument :
MSVOA_X
ClientSampleID :
ST006RW149-190402DL

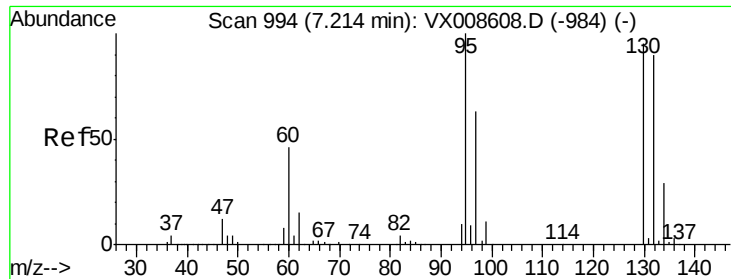
Tot Ion: 83 Resp: 1559
Ion Ratio Lower Upper
83 100
55 91.3 69.0 103.6
98 28.0 34.4 51.6#



#43
Isopropyl Acetate
Concen: 0.470 ug/l
RT: 6.35 min Scan# 852
Delta R.T. -0.10 min
Lab File: VX008692.D
Acq: 05 Apr 2019 19:19

Tgt Ion: 43 Resp: 3643
Ion Ratio Lower Upper
43 100
61 0.0 15.3 22.9#
87 0.0 9.0 13.6#





#44

Trichloroethene

Concen: 13.135 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

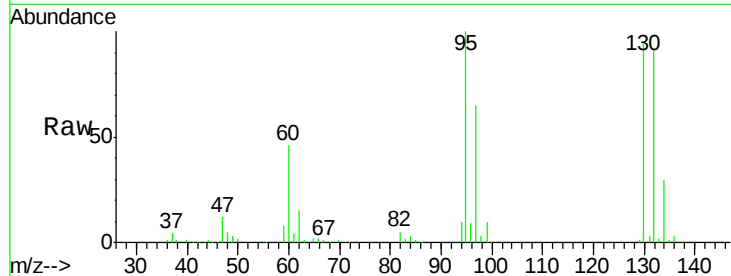
ST006RW149-190402DL

Tot Ion:130 Resp: 33798

Ion Ratio Lower Upper

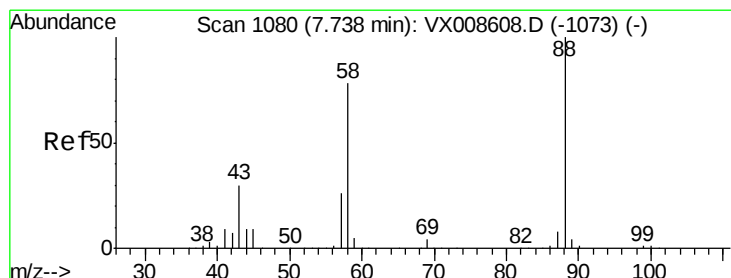
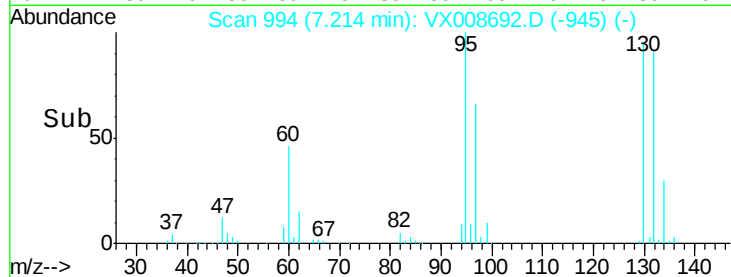
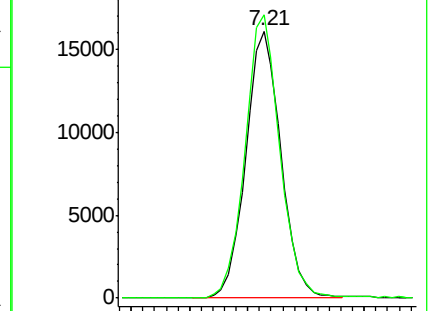
130 100

95 105.9 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.272 ug/l

RT: 7.83 min Scan# 1095

Delta R.T. 0.09 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

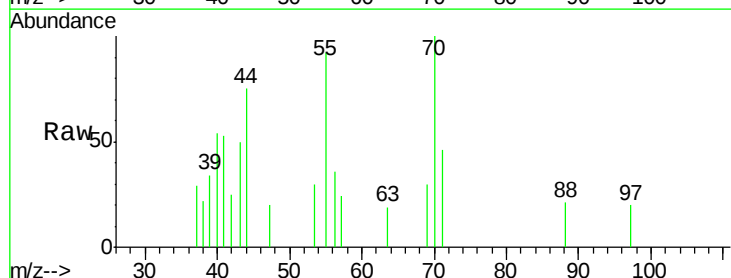
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 2590.0 28.6 43.0#

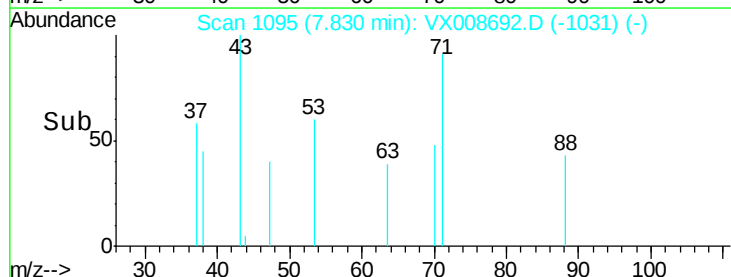
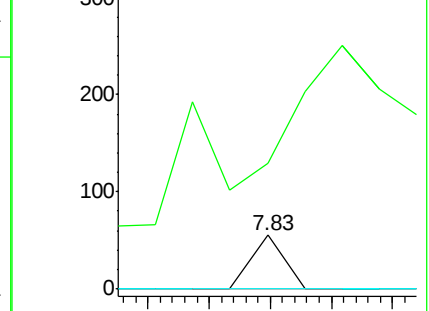
58 0.0 62.2 93.2#

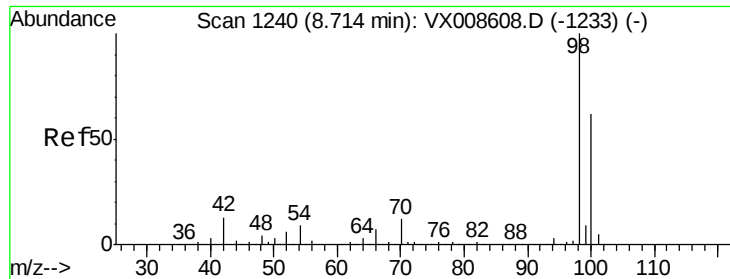


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.988 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

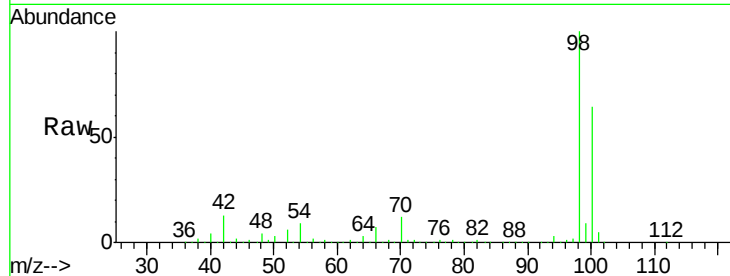
ST006RW149-190402DL

Tot Ion: 98 Resp: 423100

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

300000

250000

200000

150000

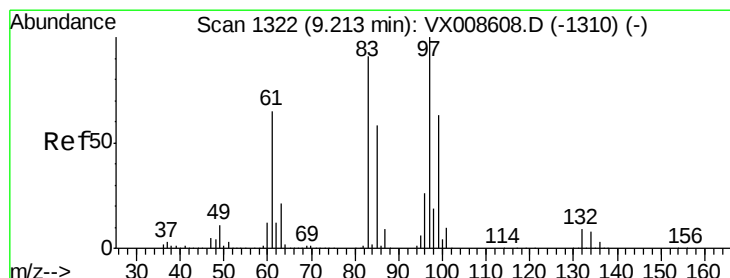
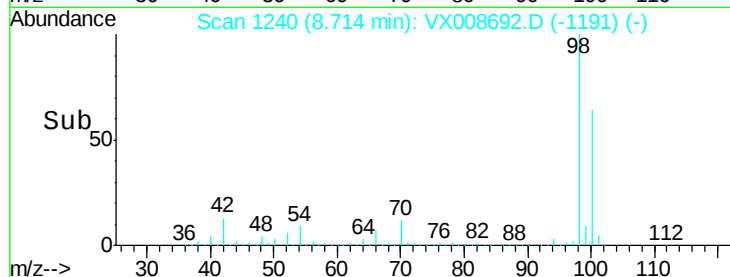
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.357 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Tgt Ion: 97 Resp: 933

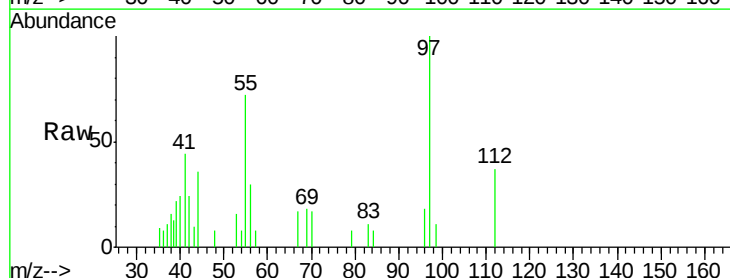
Ion Ratio Lower Upper

97 100

83 10.9 73.2 109.8#

85 0.0 46.6 69.8#

99 0.0 50.1 75.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

1000

800

600

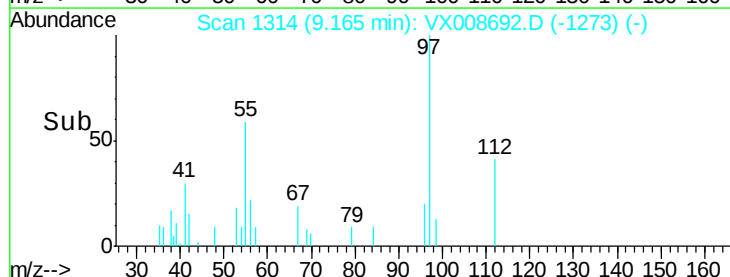
400

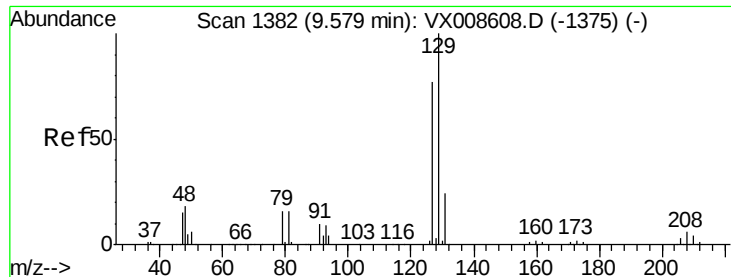
200

0

9.10 9.15 9.20

Time-->

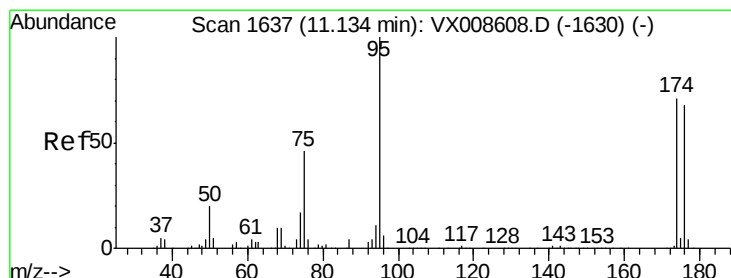
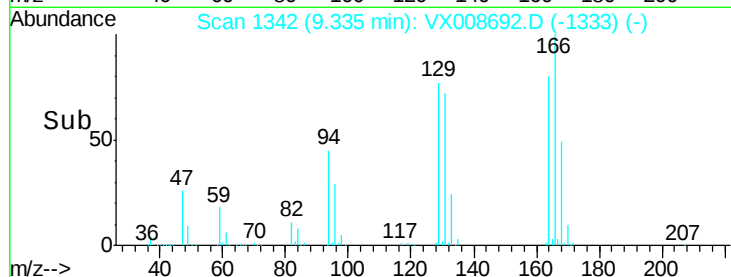
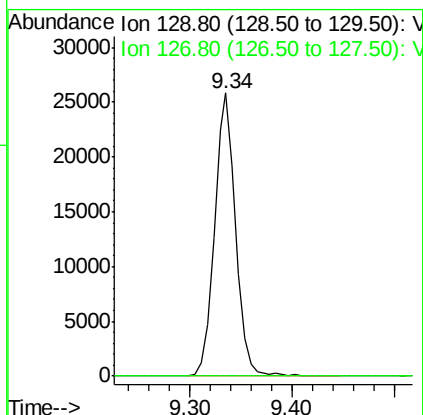
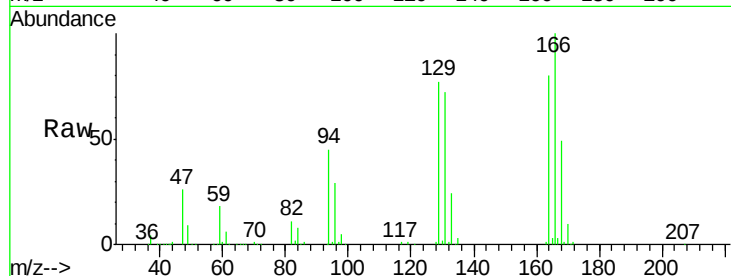




#60
 Dibromochloromethane
 Concen: 15.126 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

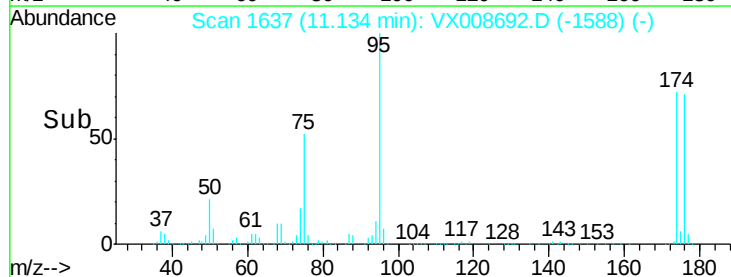
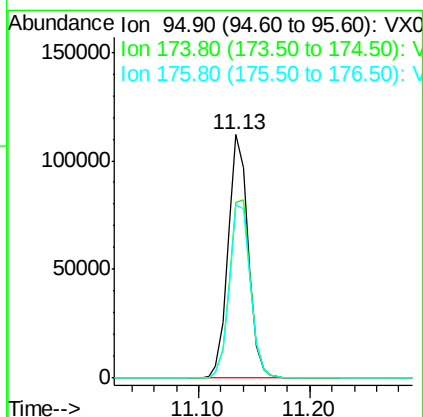
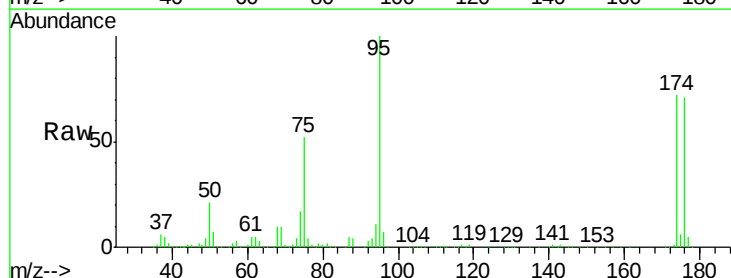
Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW149-190402DL

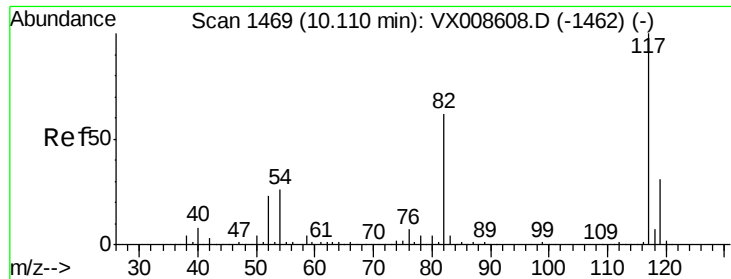
Tot Ion:129 Resp: 37266
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.5 115.3#



#62
 4-Bromofluorobenzene
 Concen: 45.613 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008692.D
 Acq: 05 Apr 2019 19:19

Tgt Ion: 95 Resp: 139699
 Ion Ratio Lower Upper
 95 100
 174 76.8 0.0 151.8
 176 74.6 0.0 145.8

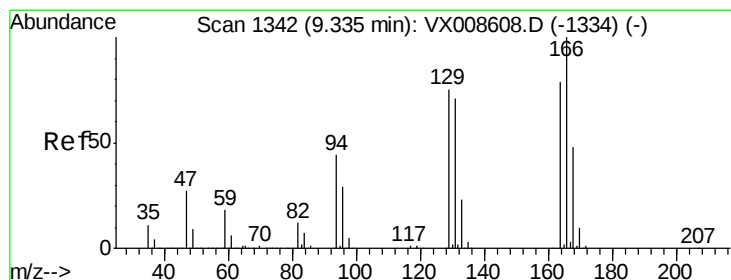
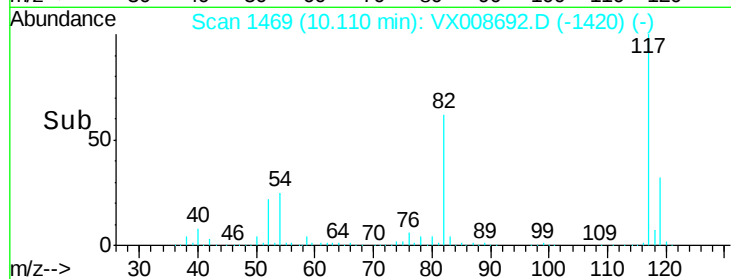
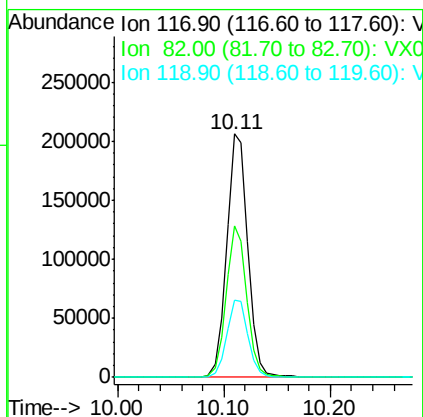
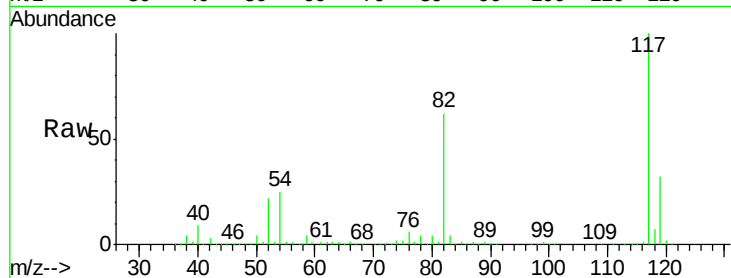




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008692.D
Acq: 05 Apr 2019 19:19

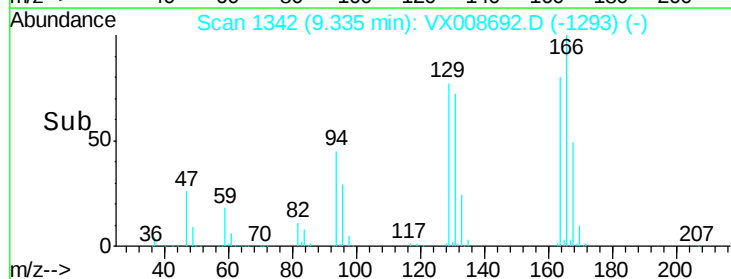
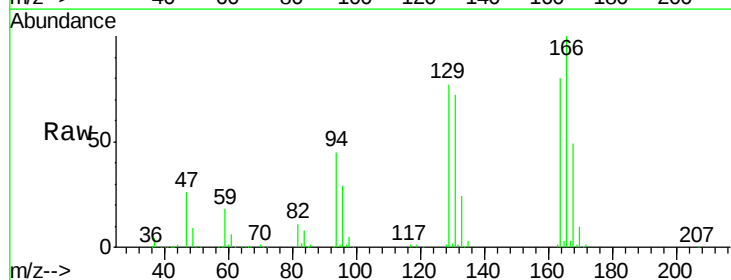
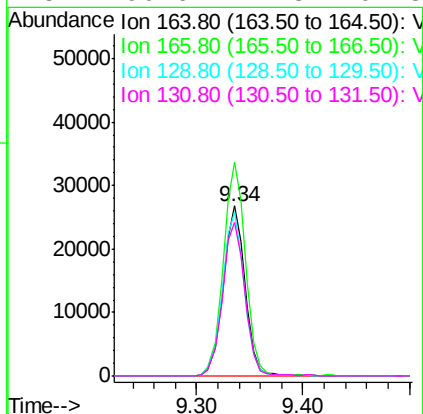
Instrument :
MSVOA_X
ClientSampleId :
ST006RW149-190402DL

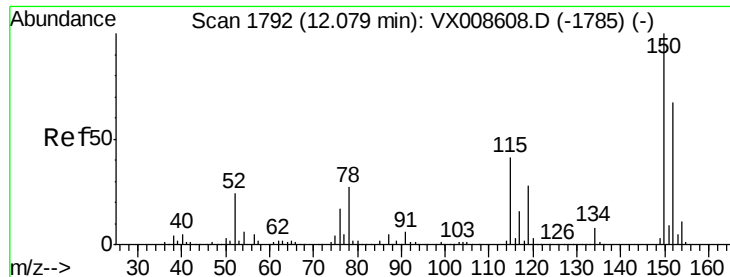
Tot Ion:117 Resp: 286488
Ion Ratio Lower Upper
117 100
82 62.2 49.6 74.4
119 31.9 25.0 37.4



#64
Tetrachloroethene
Concen: 18.036 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008692.D
Acq: 05 Apr 2019 19:19

Tgt Ion:164 Resp: 38282
Ion Ratio Lower Upper
164 100
166 125.6 101.0 151.6
129 96.4 75.8 113.8
131 90.6 71.8 107.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008692.D

Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402DL

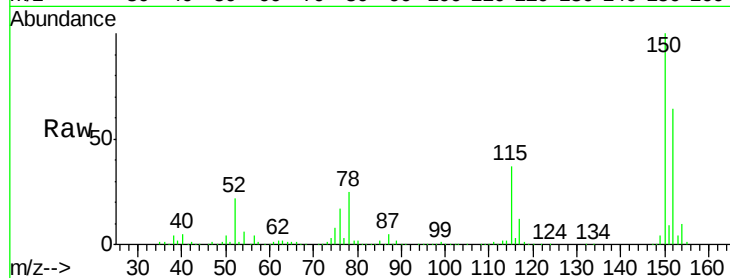
Tot Ion:152 Resp: 118022

Ion Ratio Lower Upper

152 100

115 59.7 43.5 130.5

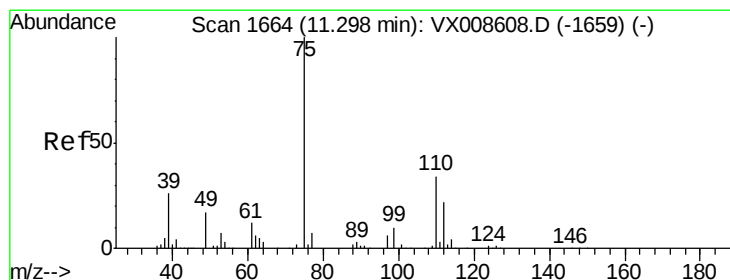
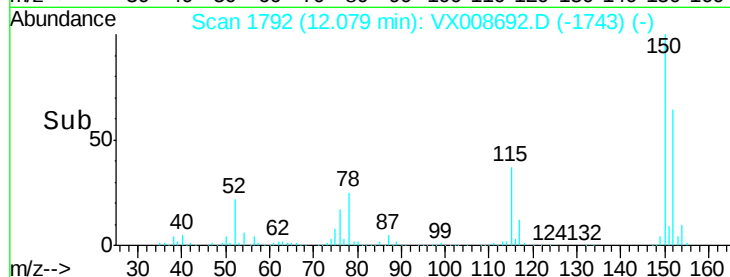
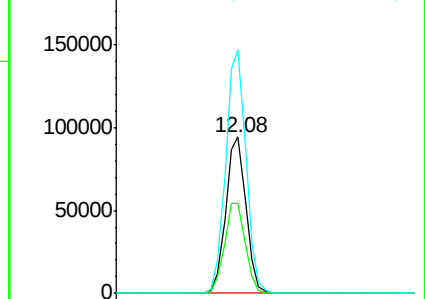
150 156.5 0.0 348.8



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: 22.087 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008692.D

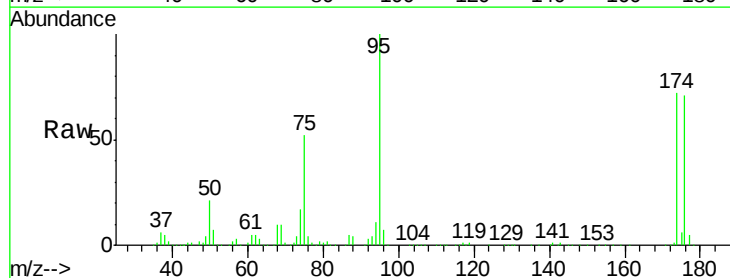
Acq: 05 Apr 2019 19:19

Tgt Ion: 75 Resp: 71610

Ion Ratio Lower Upper

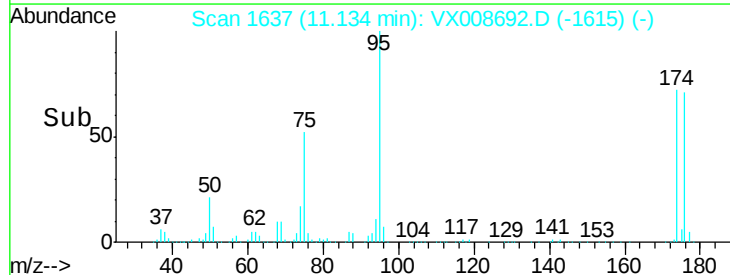
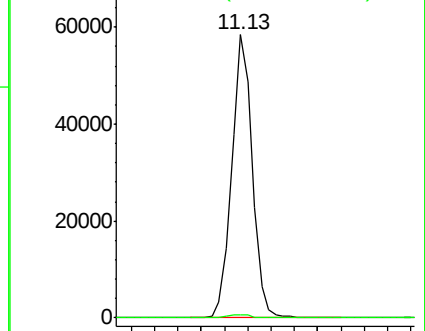
75 100

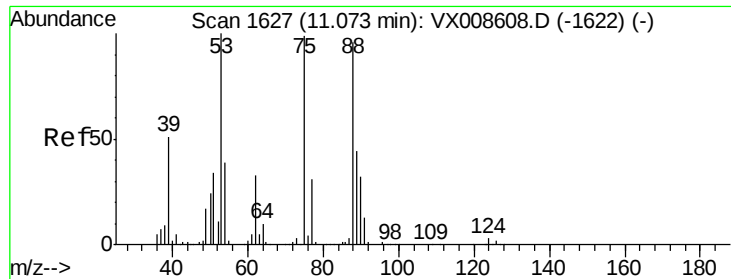
77 1.4 22.3 66.8#



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: 60.884 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008692.D

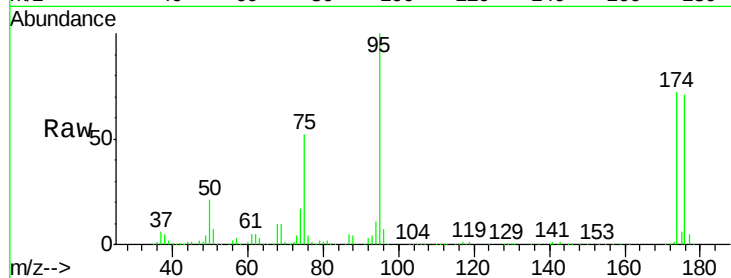
Acq: 05 Apr 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402DL



Tot Ion: 75 Resp: 71610

Ion	Ratio	Lower	Upper
75	100		
53	0.0	81.3	121.9#
89	0.0	35.6	53.4#

