

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX042919\
 Data File : VX009210.D
 Acq On : 29 Apr 2019 16:22
 Operator : JC/SP
 Sample : K2581-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Apr 30 07:16:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	204893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	324476	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113792	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	132153	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
35) Dibromofluoromethane	5.49	113	99487	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	8.71	98	404200	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	11.13	95	129791	43.37	ug/l	0.00
Spiked Amount			Recovery	=	86.74%	

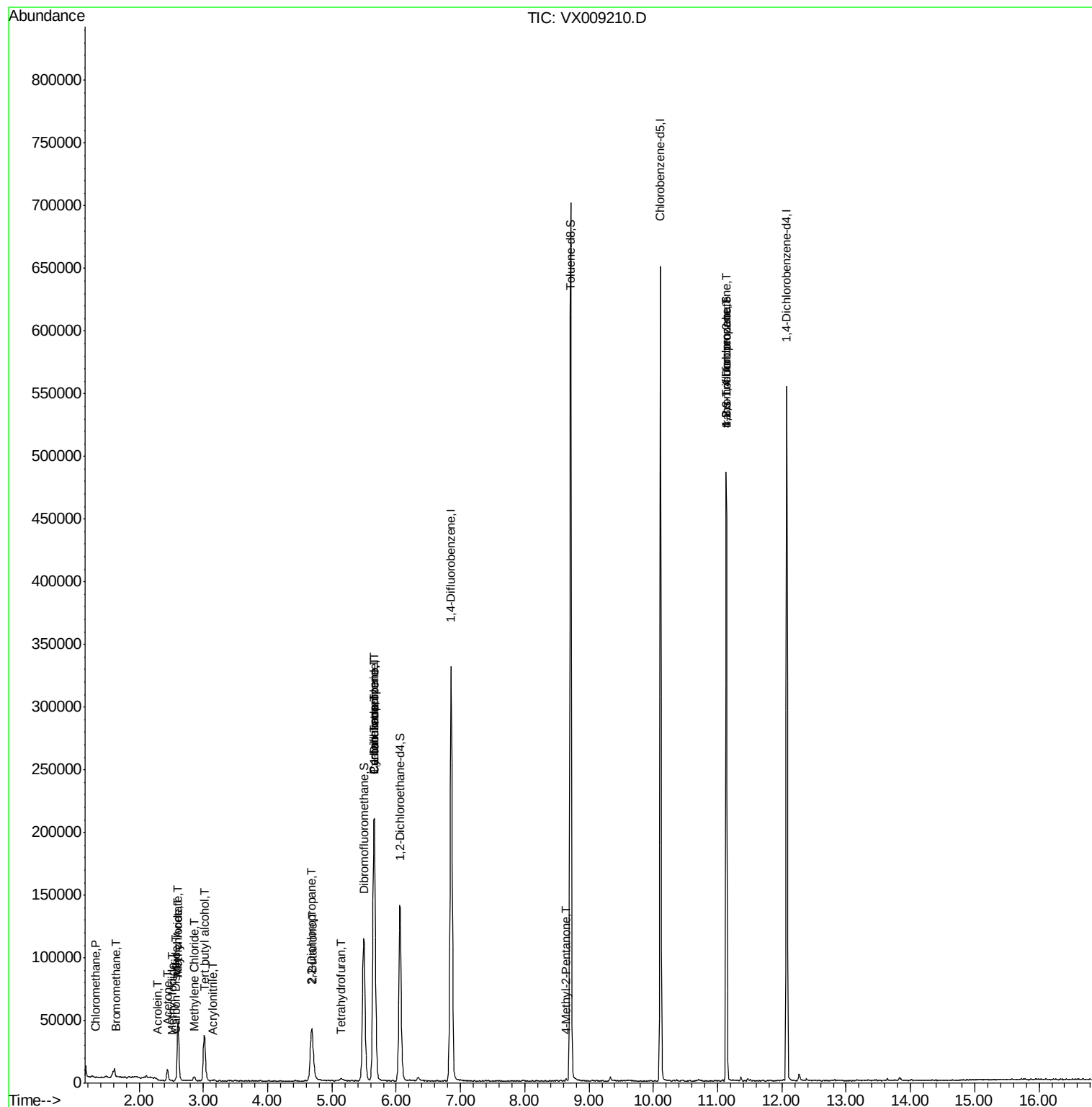
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	544	0.211	ug/l #	56
5) Bromomethane	1.64	94	614	0.407	ug/l #	76
10) Methyl Iodide	2.51	142	342	4.733	ug/l #	67
11) Tert butyl alcohol	3.01	59	24156	37.310	ug/l #	80
13) Acrolein	2.29	56	267	0.455	ug/l	89
14) Allyl chloride	2.60	41	5016	1.071	ug/l #	64
15) Acrylonitrile	3.14	53	582	0.368	ug/l	91
16) Acetone	2.44	43	9981	6.646	ug/l	96
17) Carbon Disulfide	2.57	76	1600	0.296	ug/l #	74
18) Methyl Acetate	2.60	43	12113	3.391	ug/l #	56
20) Methylene Chloride	2.85	84	1423	0.585	ug/l #	92
25) 2-Butanone	4.68	43	4199	1.799	ug/l	93
26) 2,2-Dichloropropane	4.68	77	1599	0.483	ug/l #	53
28) Bromochloromethane	5.01	49	163	Below Cal	#	20
29) Tetrahydrofuran	5.14	42	2415	1.608	ug/l #	82
31) Cyclohexane	5.65	56	4626	1.119	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16043	5.320	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19020	6.942	ug/l #	15
51) 4-Methyl-2-Pentanone	8.64	43	1221	0.278	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	66113	25.047	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66113	64.086	ug/l #	10

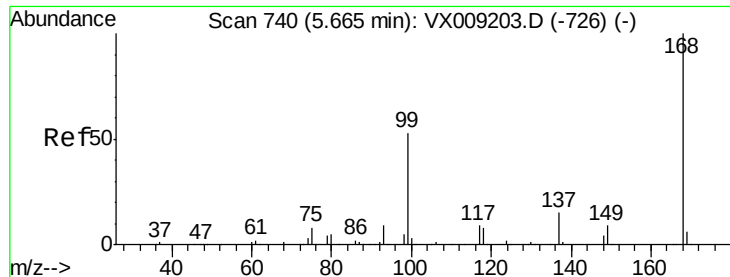
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 30 07:16:59 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:03:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

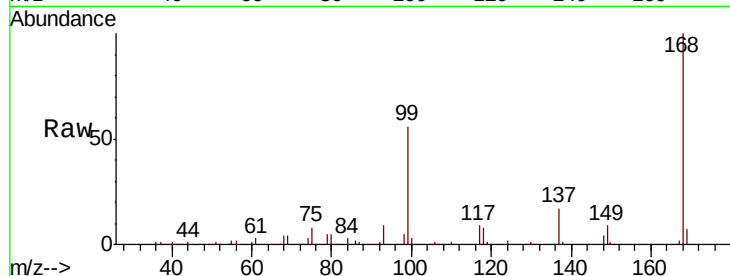
TRIP-BLANK

Tgt Ion:168 Resp: 204893

Ion Ratio Lower Upper

168 100

99 56.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

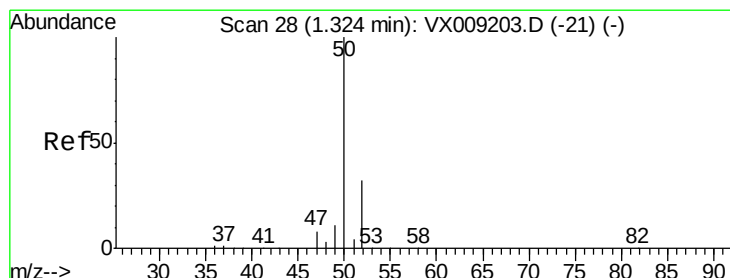
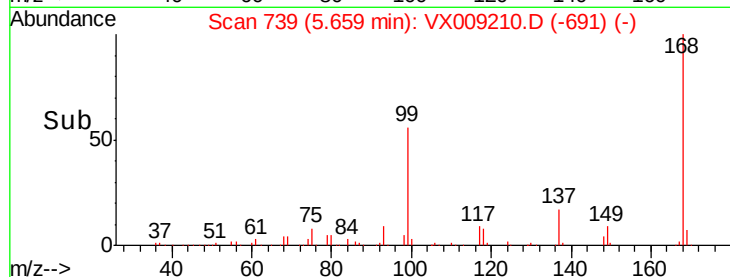
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.211 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009210.D

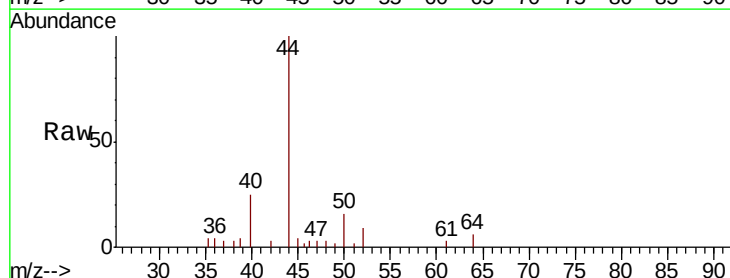
Acq: 29 Apr 2019 16:22

Tgt Ion: 50 Resp: 544

Ion Ratio Lower Upper

50 100

52 57.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

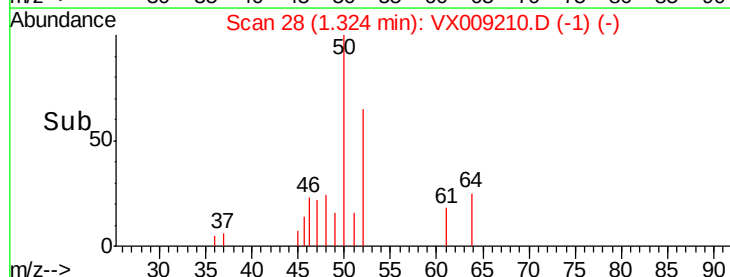
300

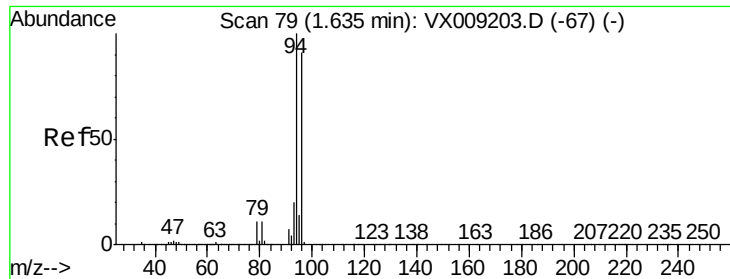
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.407 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

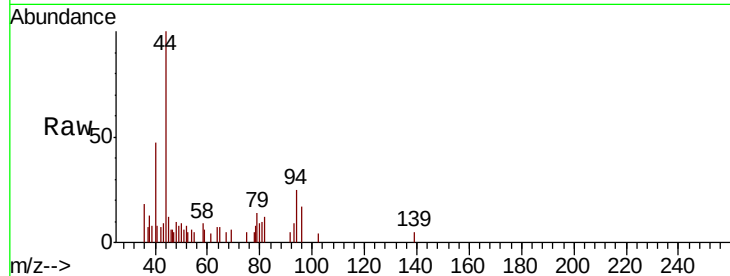
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Tgt Ion: 94 Resp: 614

Ion Ratio Lower Upper

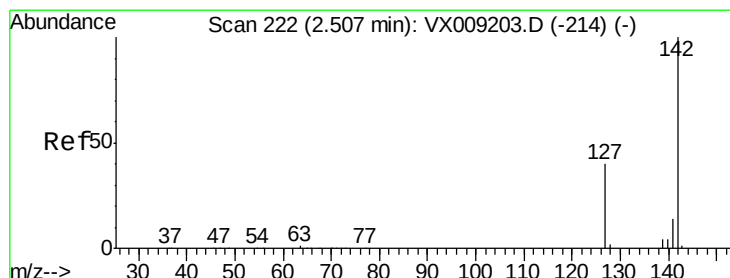
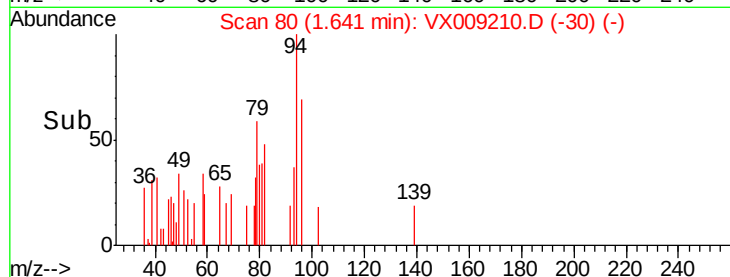
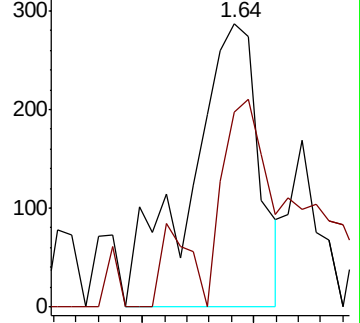
94 100

96 68.6 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.733 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

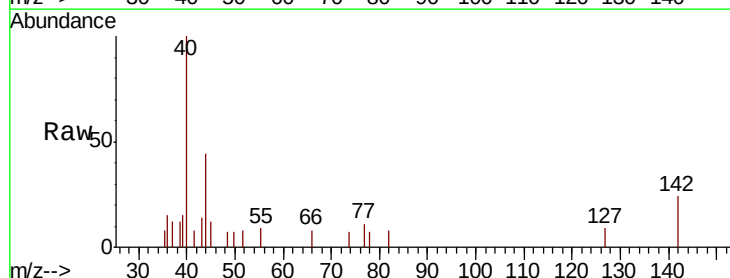
Tgt Ion: 142 Resp: 342

Ion Ratio Lower Upper

142 100

127 20.8 32.7 49.1#

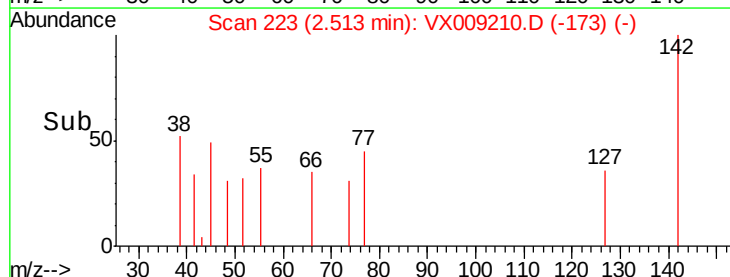
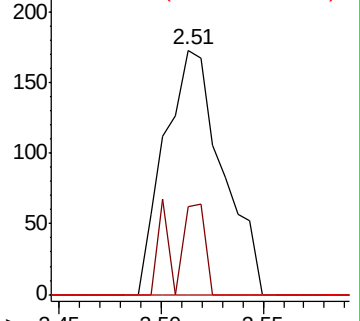
141 0.0 11.5 17.3#

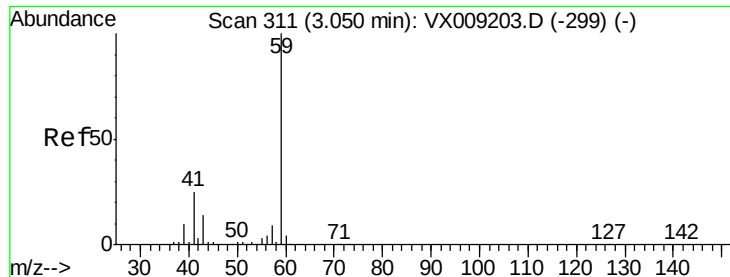


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

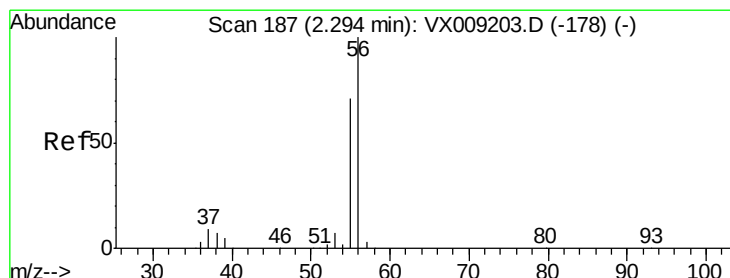
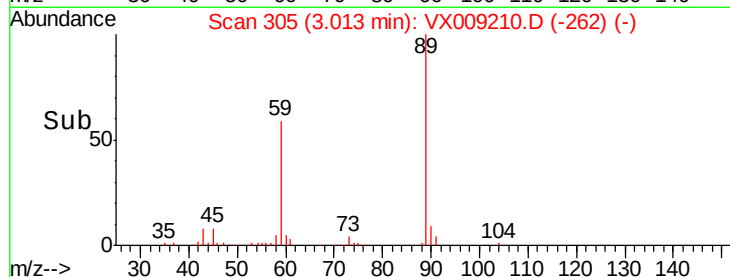
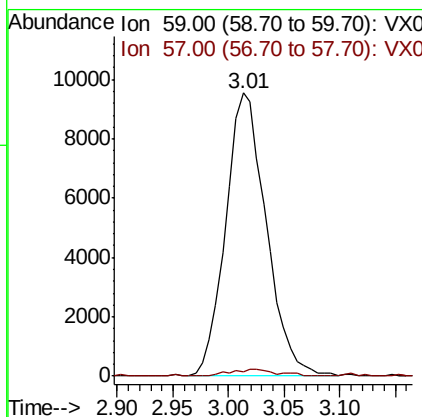
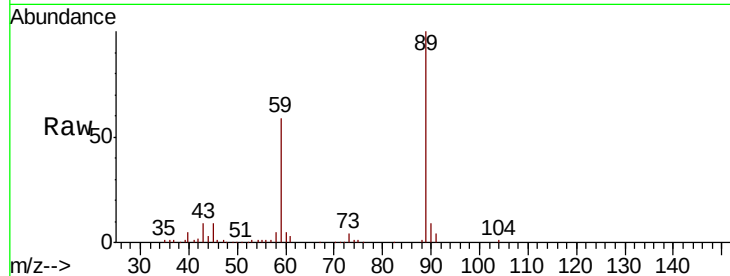




#11
Tert butyl alcohol
Concen: 37.310 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009210.D
Acq: 29 Apr 2019 16:22

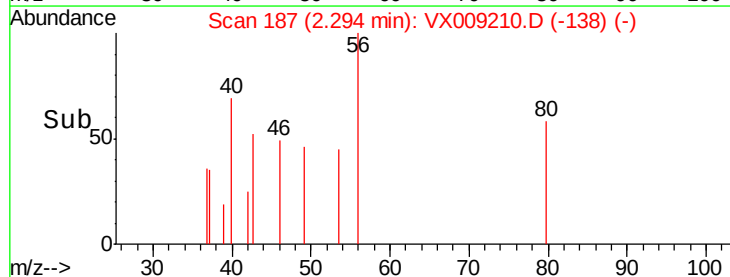
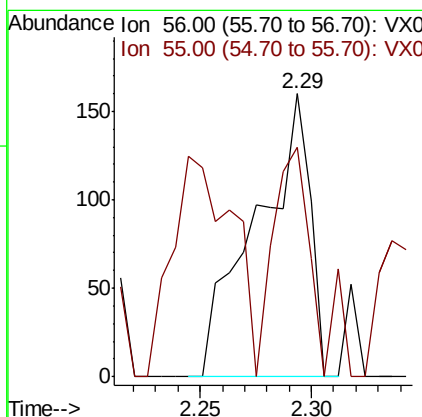
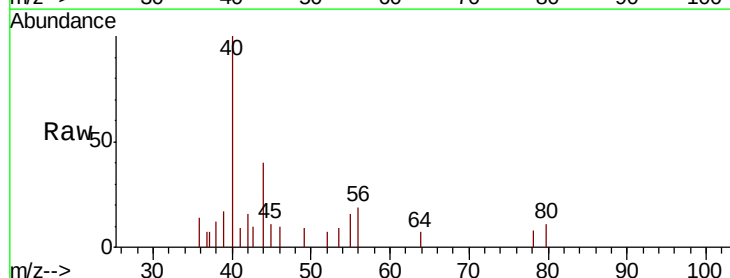
Instrument :
MSVOA_X
ClientSampled :
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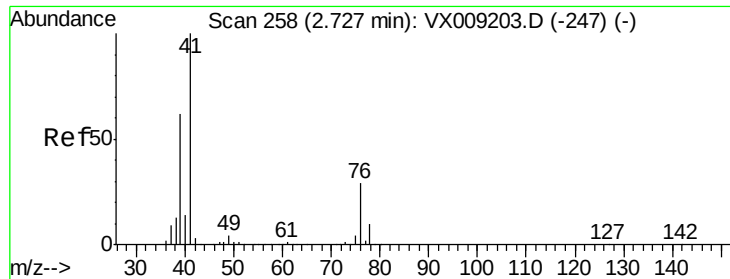
Tgt Ion: 59 Resp: 24156
Ion Ratio Lower Upper
59 100
57 2.7 8.2 12.2#



#13
Acrolein
Concen: 0.455 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009210.D
Acq: 29 Apr 2019 16:22

Tgt Ion: 56 Resp: 267
Ion Ratio Lower Upper
56 100
55 61.4 56.6 85.0

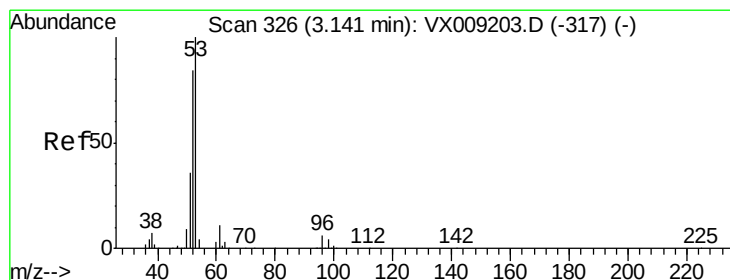
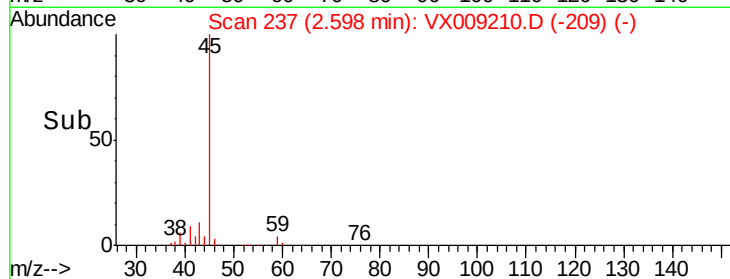
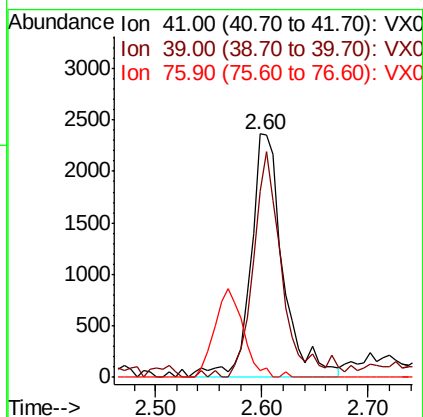
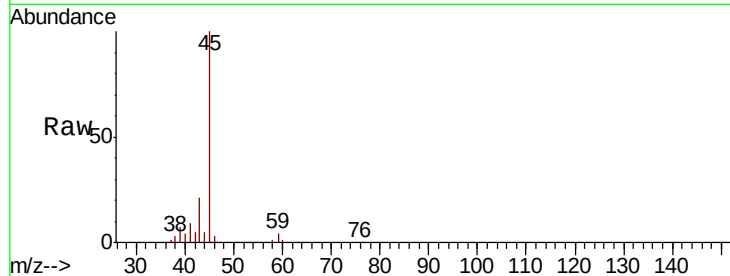




#14
 Allyl chloride
 Concen: 1.071 ug/l
 RT: 2.60 min Scan# 237
 Delta R.T. -0.13 min
 Lab File: VX009210.D
 Acq: 29 Apr 2019 16:22

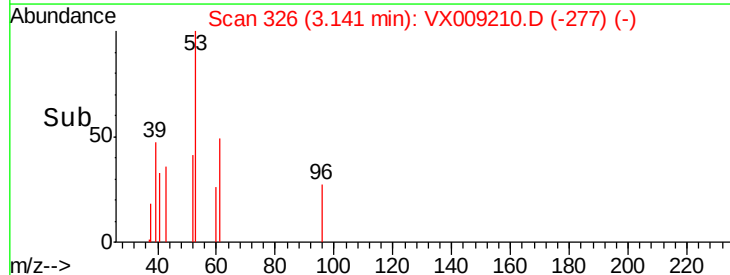
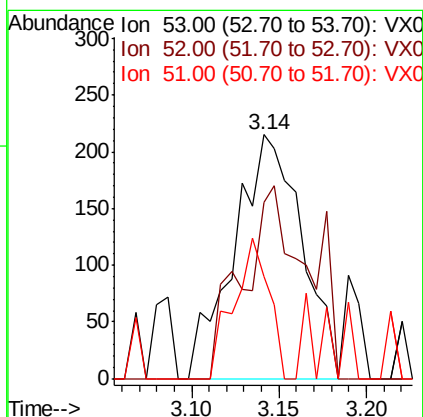
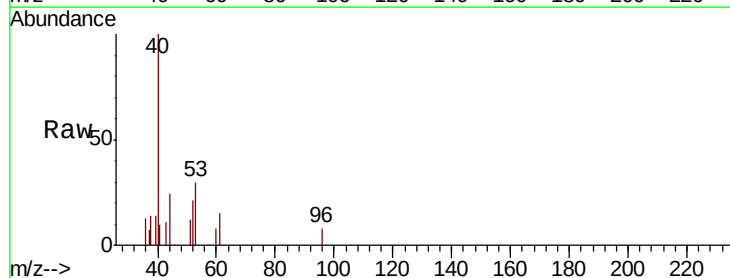
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

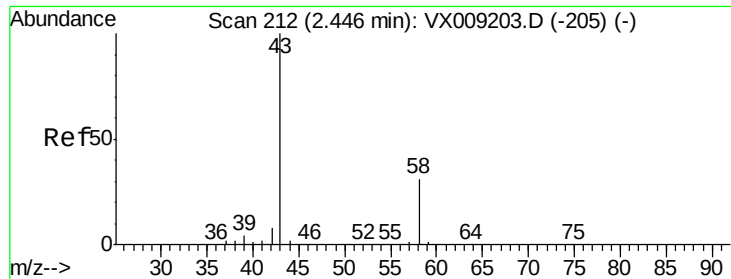
Tgt Ion: 41 Resp: 5016
 Ion Ratio Lower Upper
 41 100
 39 80.0 46.7 70.1#
 76 0.0 21.8 32.8#



#15
 Acrylonitrile
 Concen: 0.368 ug/l
 RT: 3.14 min Scan# 326
 Delta R.T. -0.00 min
 Lab File: VX009210.D
 Acq: 29 Apr 2019 16:22

Tgt Ion: 53 Resp: 582
 Ion Ratio Lower Upper
 53 100
 52 75.6 66.9 100.3
 51 29.9 28.2 42.2





#16

Acetone

Concen: 6.646 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampled :

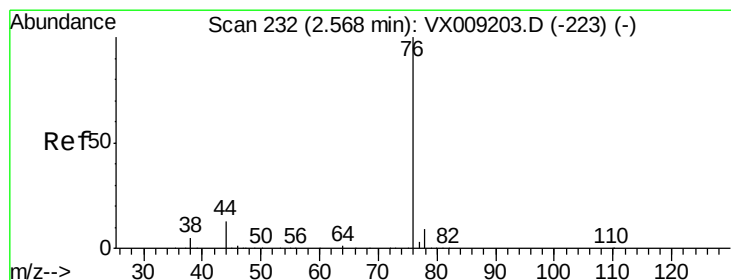
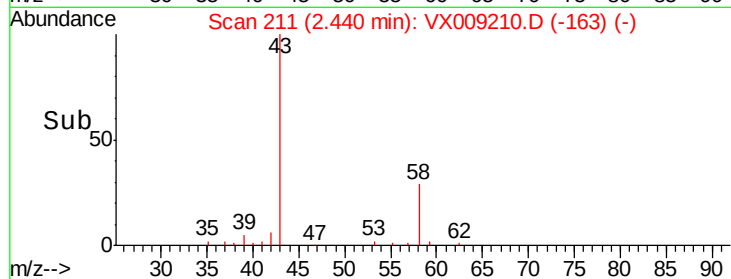
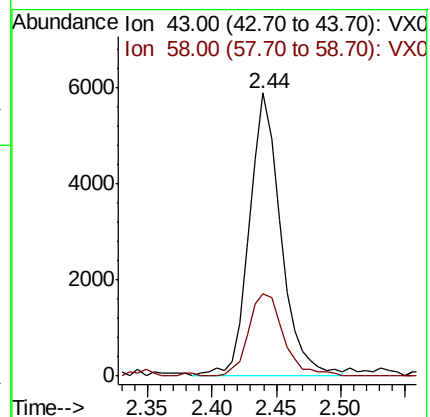
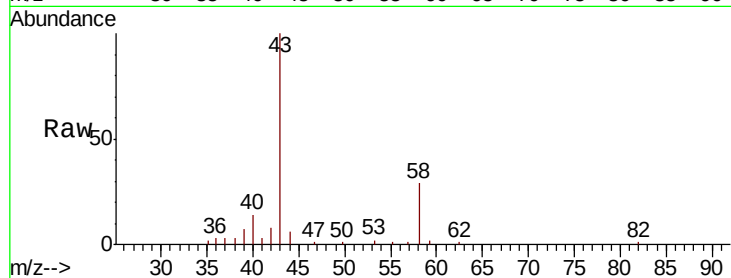
TRIP-BLANK

Tgt Ion: 43 Resp: 9981

Ion Ratio Lower Upper

43 100

58 29.0 24.9 37.3



#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009210.D

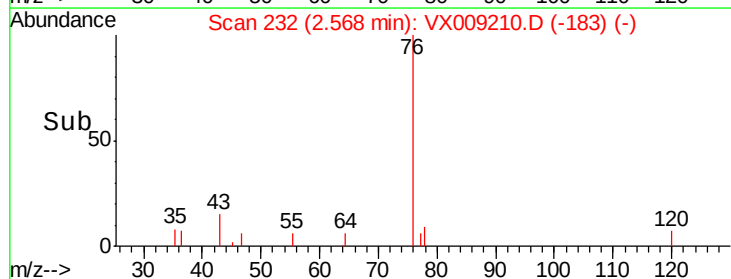
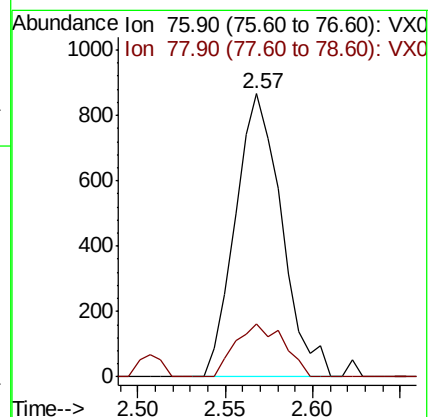
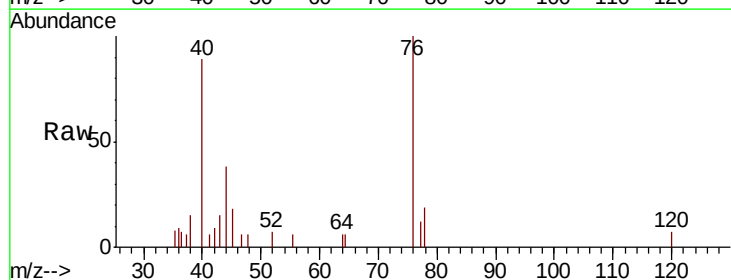
Acq: 29 Apr 2019 16:22

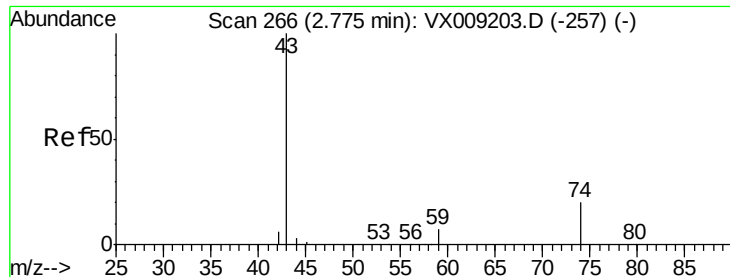
Tgt Ion: 76 Resp: 1600

Ion Ratio Lower Upper

76 100

78 18.6 7.4 11.0#

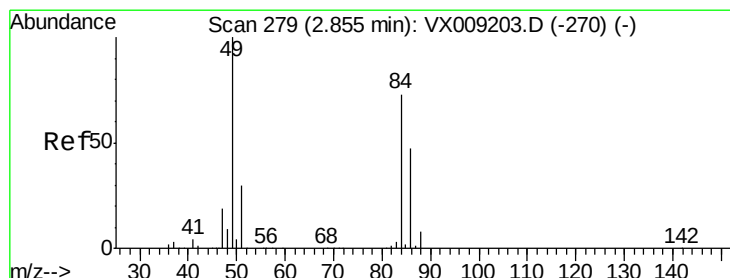
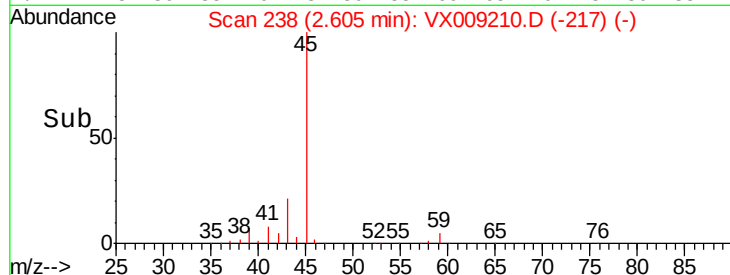
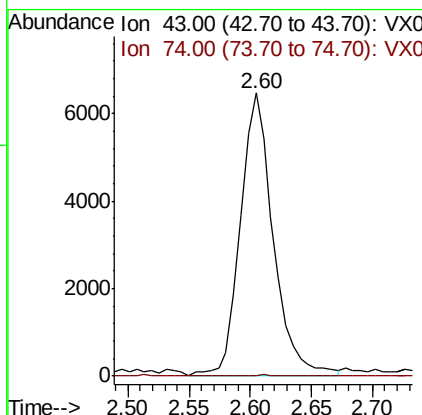
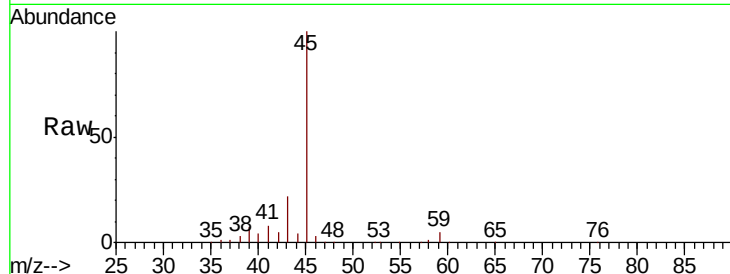




#18
Methyl Acetate
Concen: 3.391 ug/l
RT: 2.60 min Scan# 238
Delta R.T. -0.17 min
Lab File: VX009210.D
Acq: 29 Apr 2019 16:22

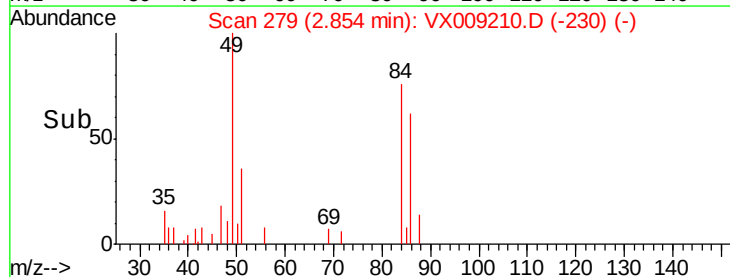
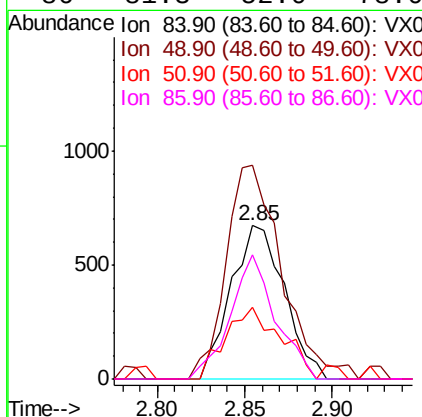
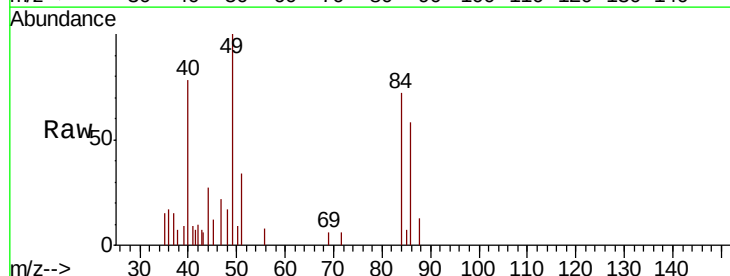
Instrument :
MSVOA_X
ClientSampleId :
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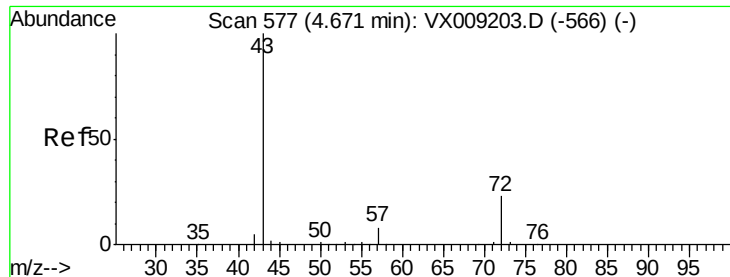
Tgt Ion: 43 Resp: 12113
Ion Ratio Lower Upper
43 100
74 0.2 16.2 24.4#



#20
Methylene Chloride
Concen: 0.585 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009210.D
Acq: 29 Apr 2019 16:22

Tgt Ion: 84 Resp: 1423
Ion Ratio Lower Upper
84 100
49 139.4 109.9 164.9
51 46.7 32.7 49.1
86 81.3 52.0 78.0#





#25

2-Butanone

Concen: 1.799 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

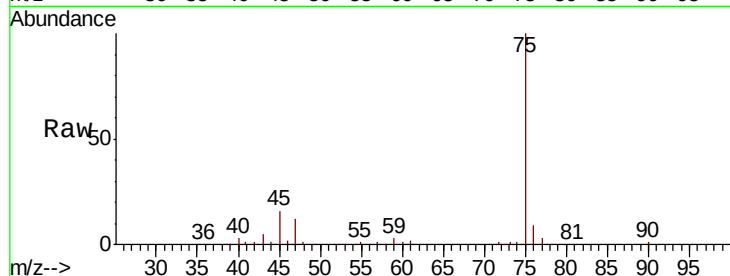
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Tgt Ion: 43 Resp: 4199

Ion Ratio Lower Upper

43 100

72 19.3 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

1500

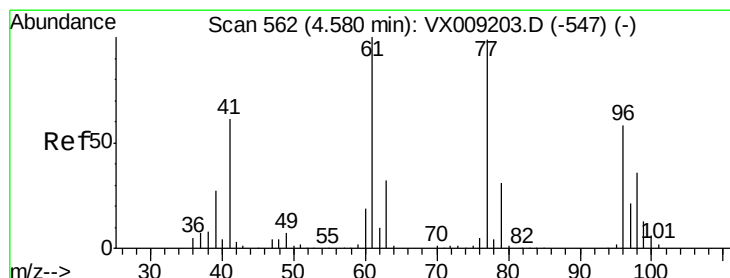
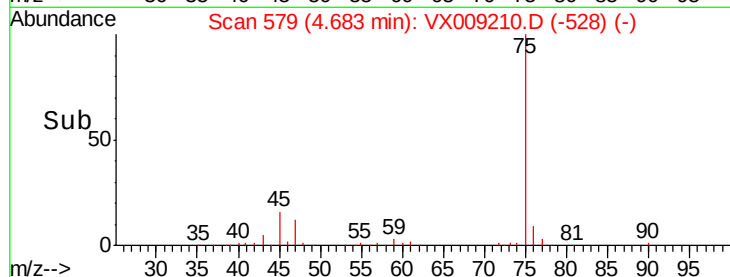
1000

500

0

4.60 4.65 4.70 4.75

Time-->



#26

2,2-Dichloropropane

Concen: 0.483 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.10 min

Lab File: VX009210.D

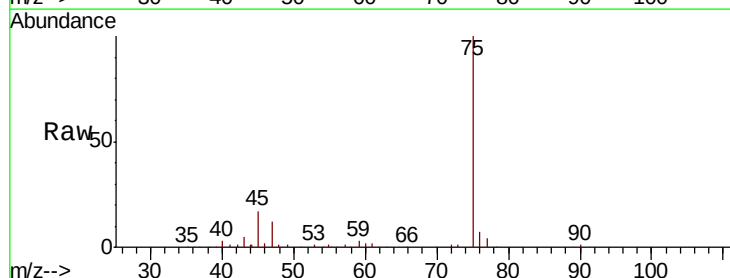
Acq: 29 Apr 2019 16:22

Tgt Ion: 77 Resp: 1599

Ion Ratio Lower Upper

77 100

97 0.0 11.5 34.4#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.68

1000

800

600

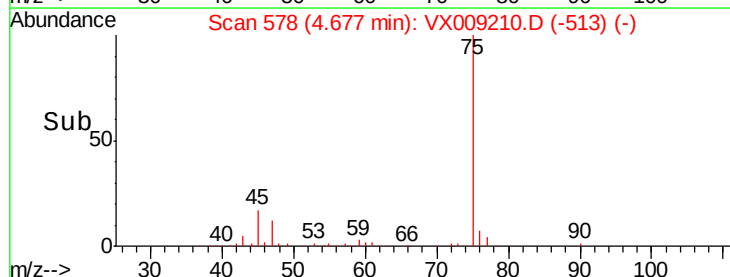
400

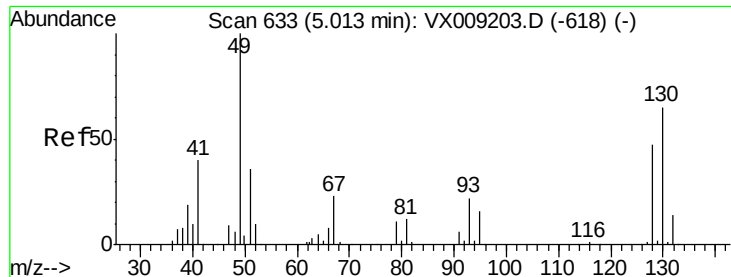
200

0

4.60 4.65 4.70

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

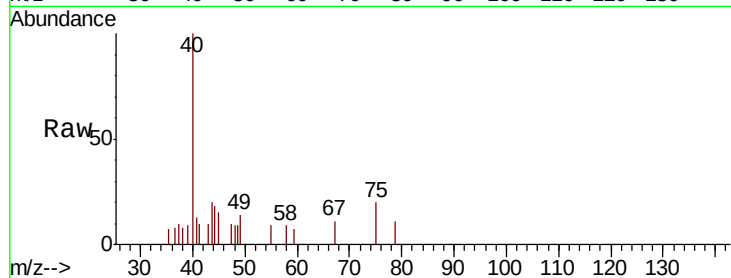
Tgt Ion: 49 Resp: 163

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

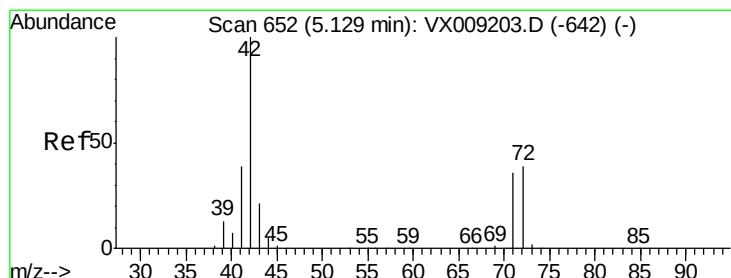
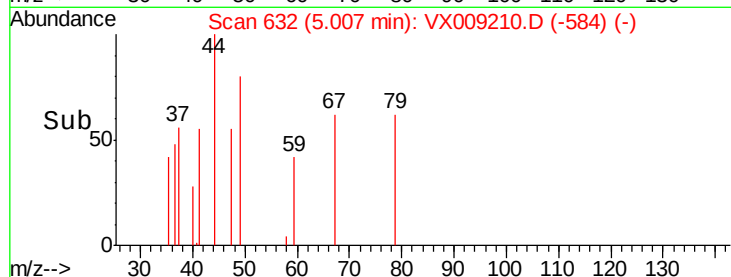
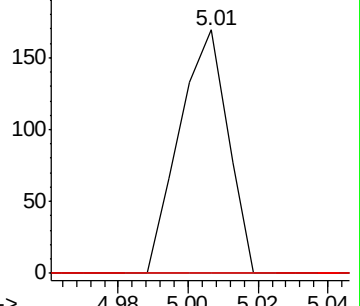
130 0.0 51.2 76.8#



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



#29

Tetrahydrofuran

Concen: 1.608 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

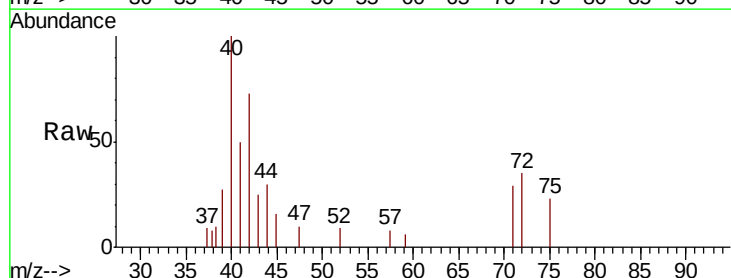
Tgt Ion: 42 Resp: 2415

Ion Ratio Lower Upper

42 100

72 24.2 30.4 45.6#

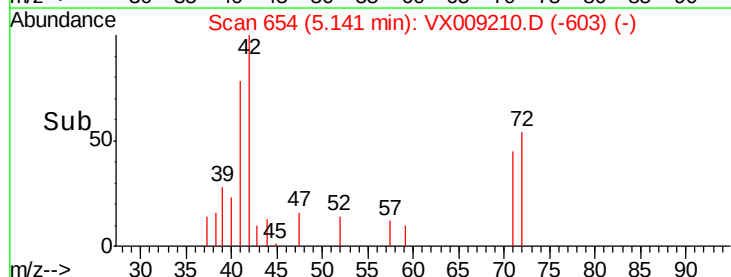
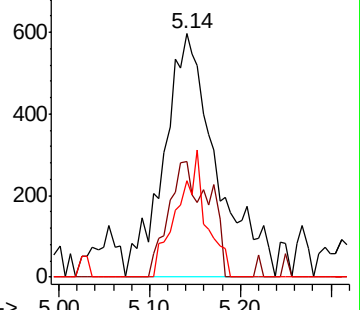
71 28.2 28.6 43.0#

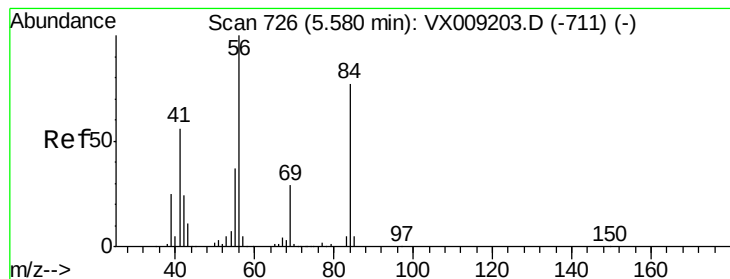


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.119 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

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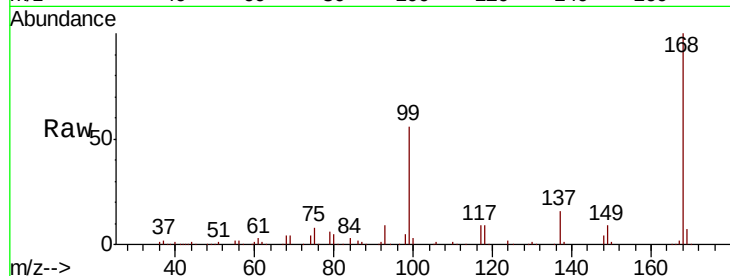
Tgt Ion: 56 Resp: 4626

Ion Ratio Lower Upper

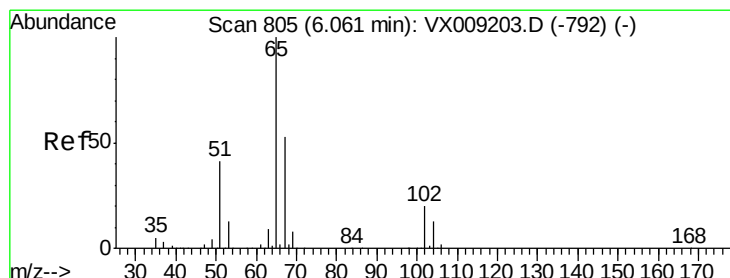
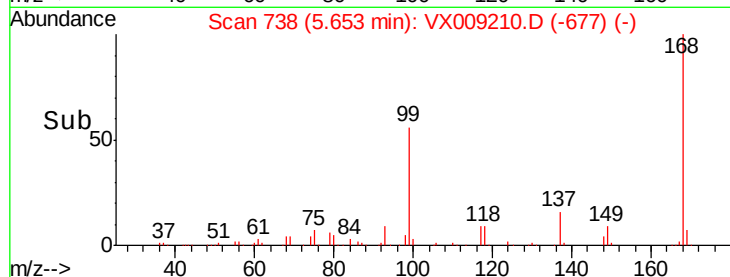
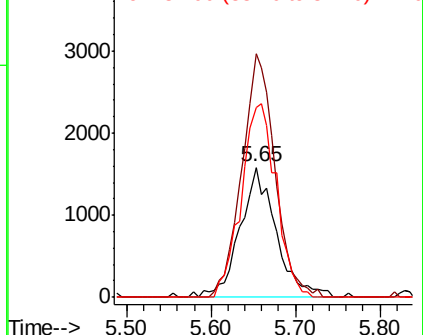
56 100

69 187.5 23.4 35.0#

84 146.6 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: 47.248 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009210.D

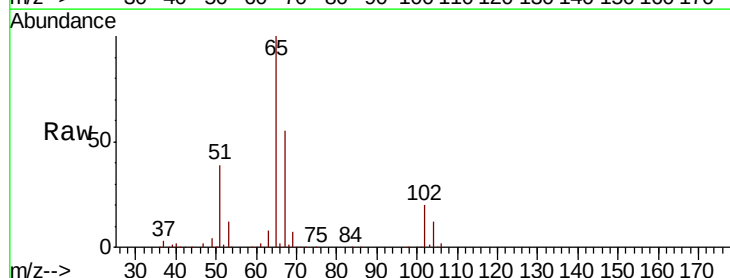
Acq: 29 Apr 2019 16:22

Tgt Ion: 65 Resp: 132153

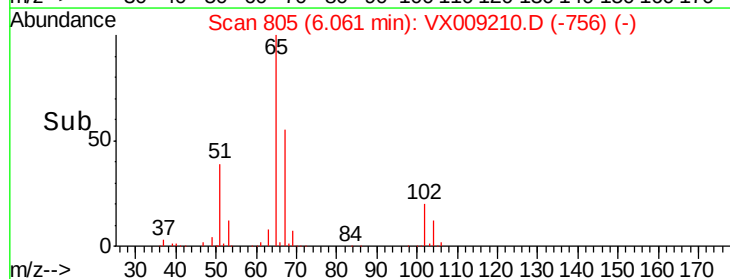
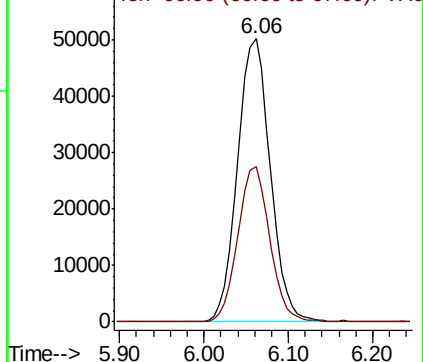
Ion Ratio Lower Upper

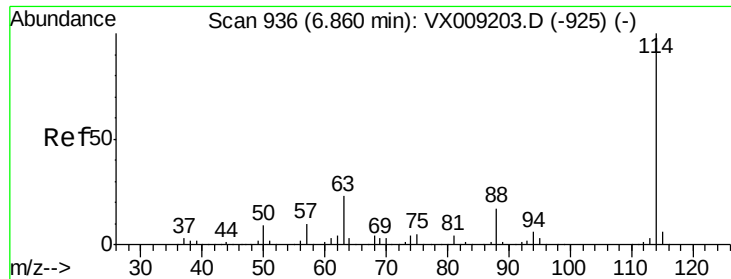
65 100

67 53.6 0.0 106.6



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

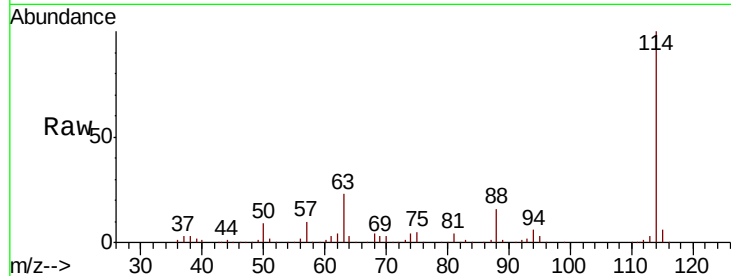




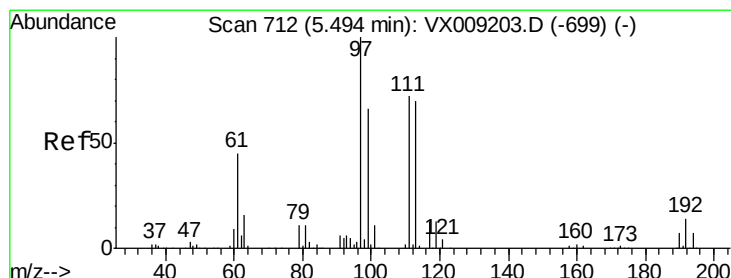
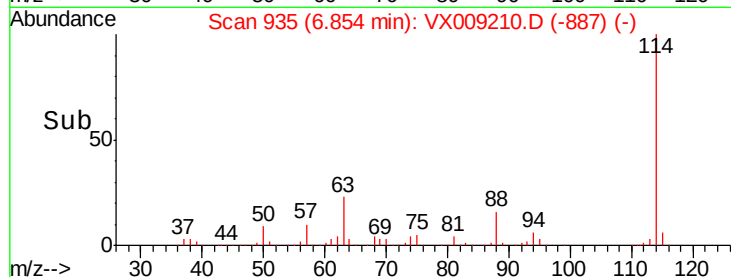
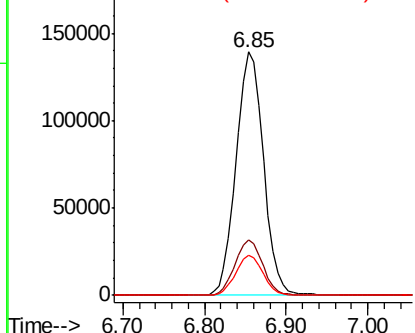
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX009210.D
 Acq: 29 Apr 2019 16:22

Instrument :
 MSVOA_X
 ClientSampleId :
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Tgt Ion:114 Resp: 324476
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 45.6
 88 16.3 0.0 33.2

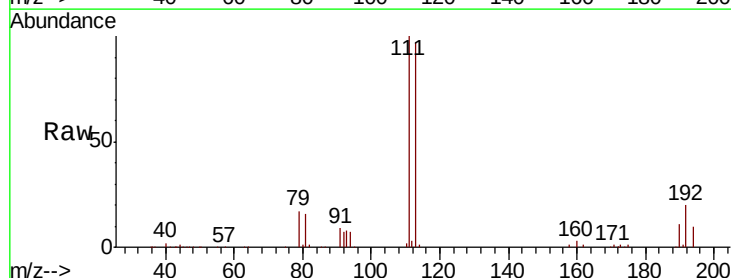


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

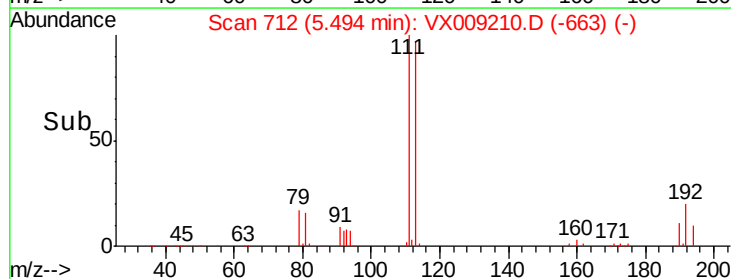
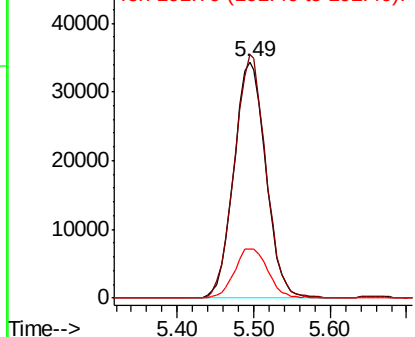


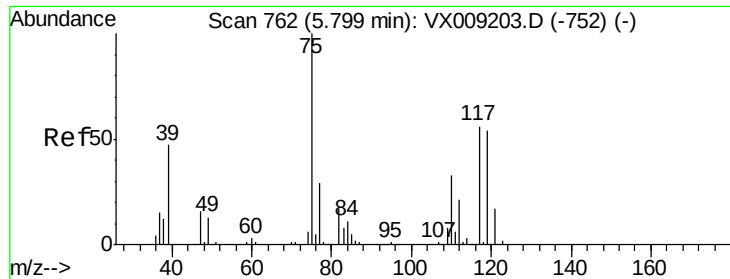
#35
 Dibromofluoromethane
 Concen: 48.773 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX009210.D
 Acq: 29 Apr 2019 16:22

Tgt Ion:113 Resp: 99487
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.8 124.2
 192 21.7 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

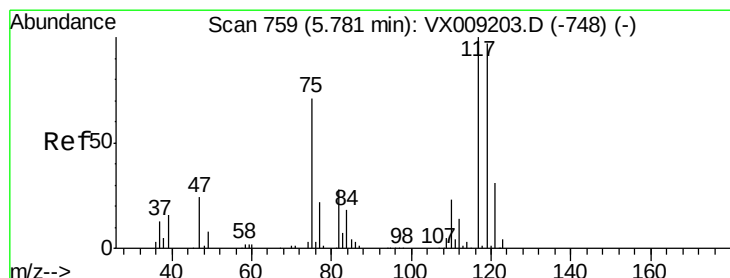
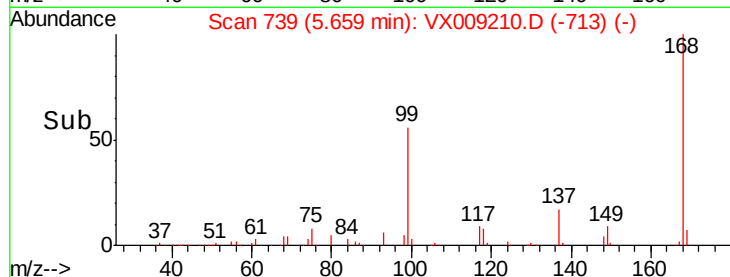
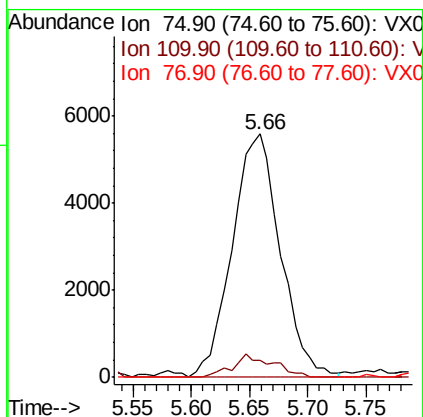
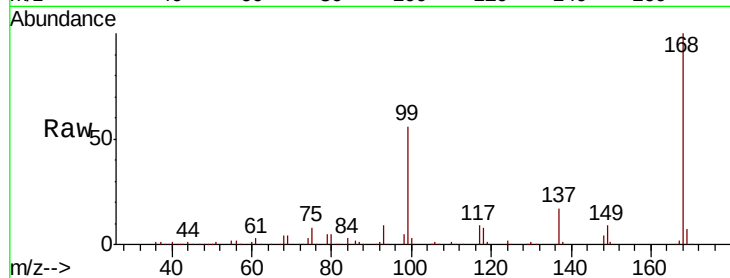




#36
 1,1-Dichloropropene
 Concen: 5.320 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009210.D
 Acq: 29 Apr 2019 16:22

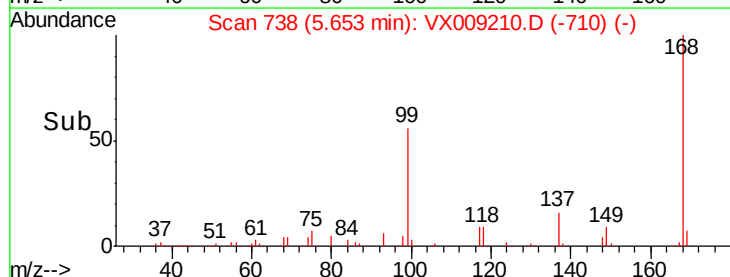
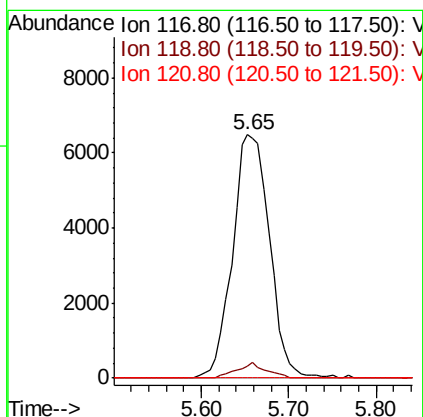
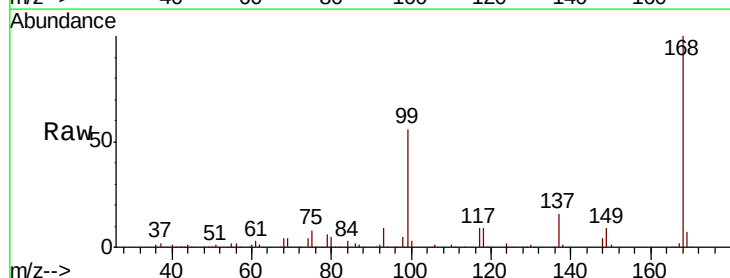
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

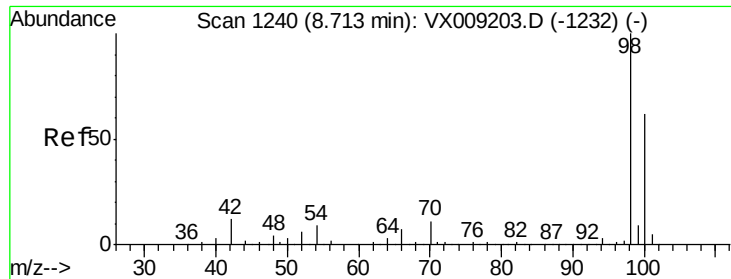
Tgt Ion: 75 Resp: 16043
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.9 50.6#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.942 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX009210.D
 Acq: 29 Apr 2019 16:22

Tgt Ion: 117 Resp: 19020
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.5 116.3#
 121 0.0 24.7 37.1#

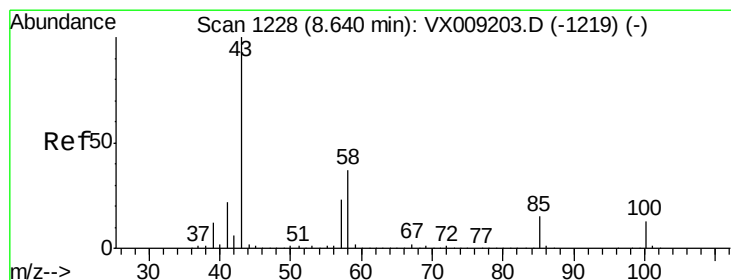
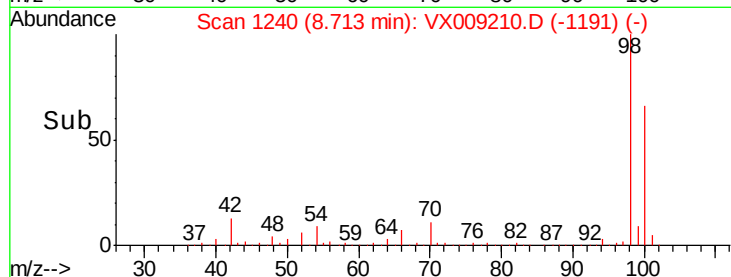
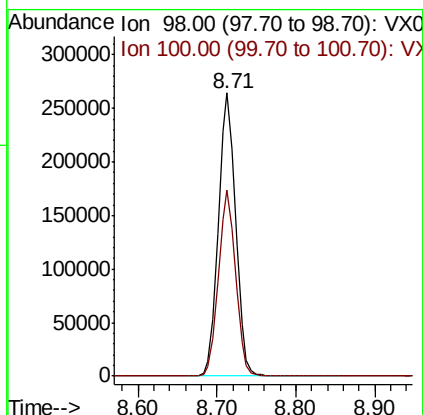
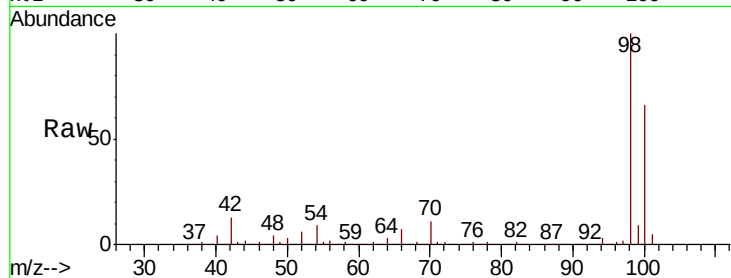




#50
Toluene-d8
Concen: 49.082 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009210.D
Acq: 29 Apr 2019 16:22

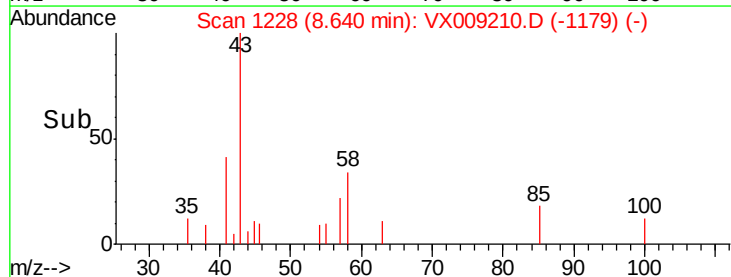
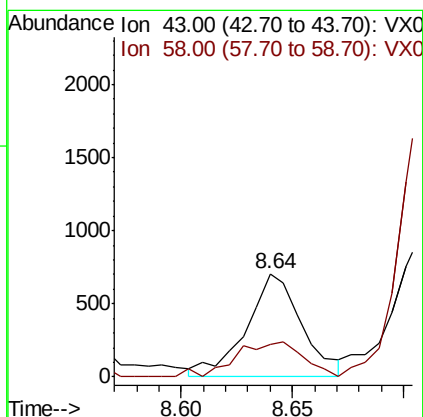
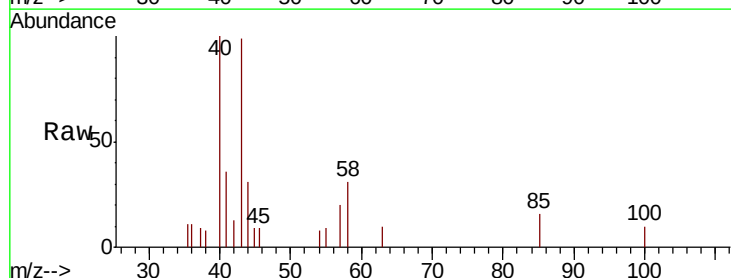
Instrument :
MSVOA_X
ClientSampled :
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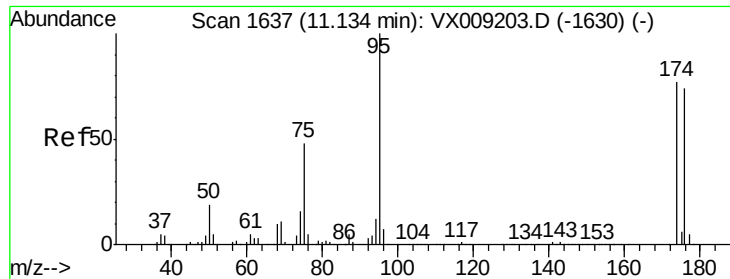
Tgt Ion: 98 Resp: 404200
Ion Ratio Lower Upper
98 100
100 65.0 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.278 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX009210.D
Acq: 29 Apr 2019 16:22

Tgt Ion: 43 Resp: 1221
Ion Ratio Lower Upper
43 100
58 41.4 29.5 44.3





#62

4-Bromofluorobenzene

Concen: 43.375 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampled :

TRIP-BLANK

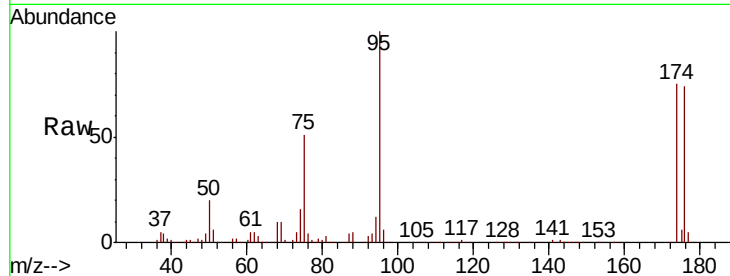
Tgt Ion: 95 Resp: 129791

Ion Ratio Lower Upper

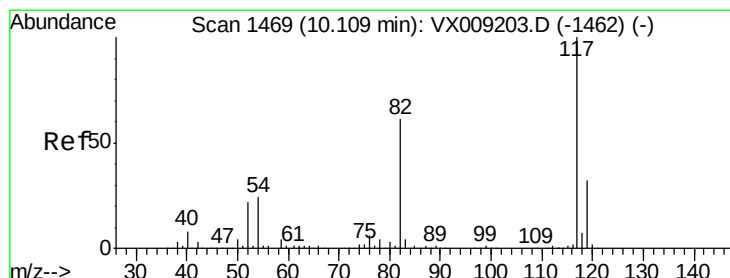
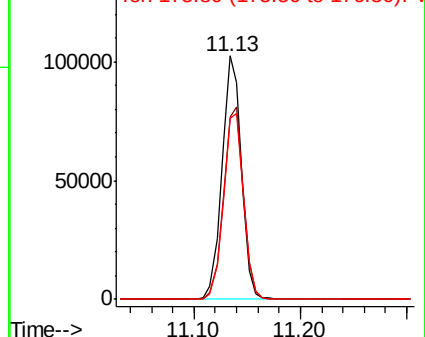
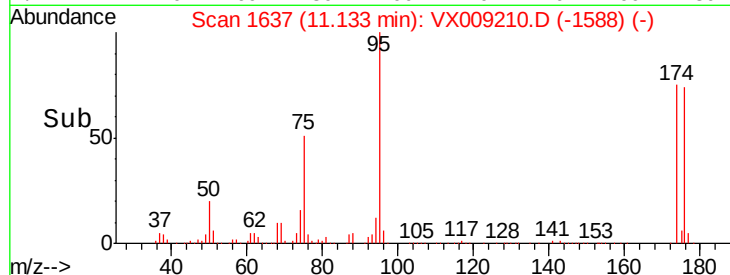
95 100

174 81.2 0.0 161.6

176 79.6 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009210.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

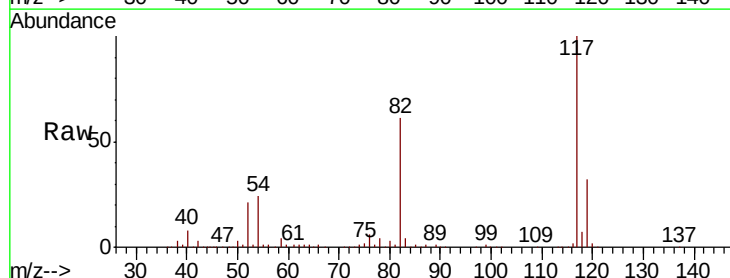
Tgt Ion: 117 Resp: 279691

Ion Ratio Lower Upper

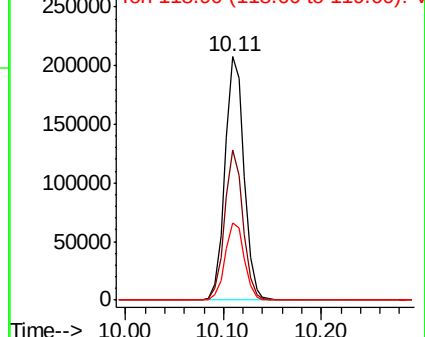
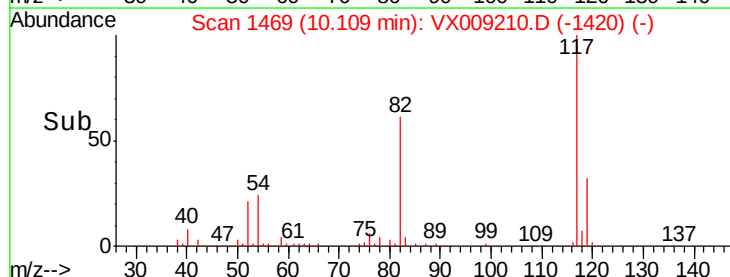
117 100

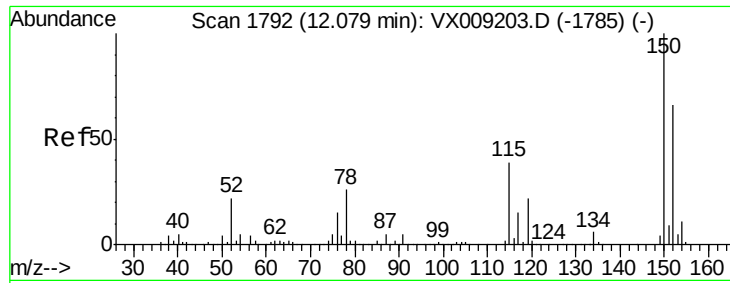
82 61.5 48.8 73.2

119 31.7 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX009210.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: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

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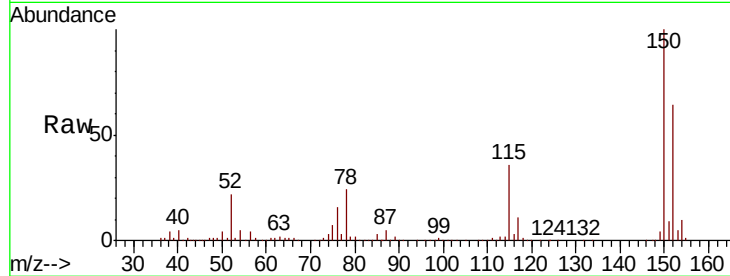
Tgt Ion:152 Resp: 113792

Ion Ratio Lower Upper

152 100

115 59.8 41.2 123.6

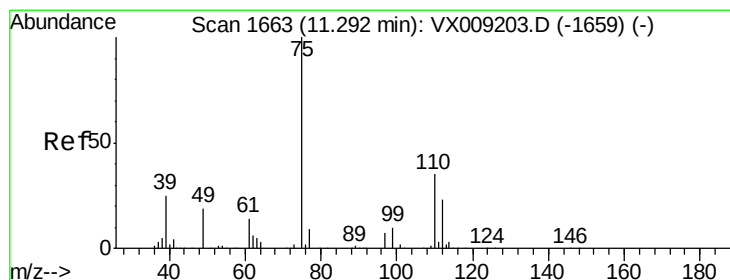
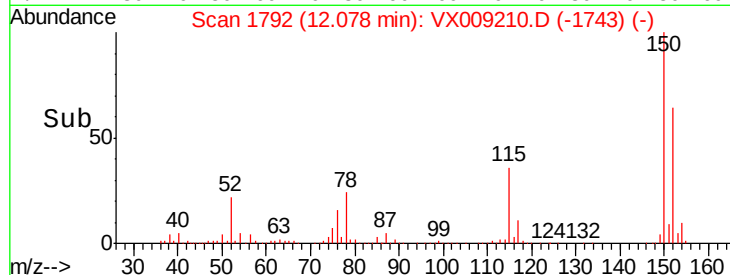
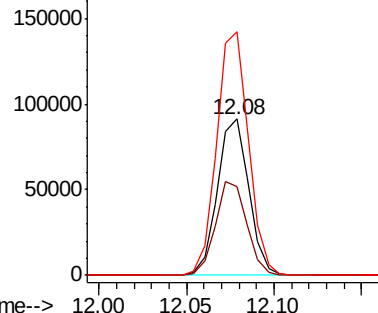
150 157.9 0.0 346.4



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: 25.047 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009210.D

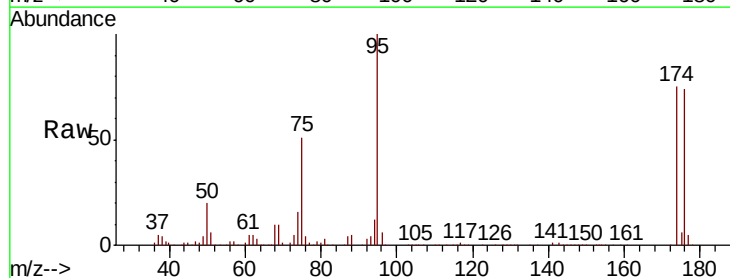
Acq: 29 Apr 2019 16:22

Tgt Ion: 75 Resp: 66113

Ion Ratio Lower Upper

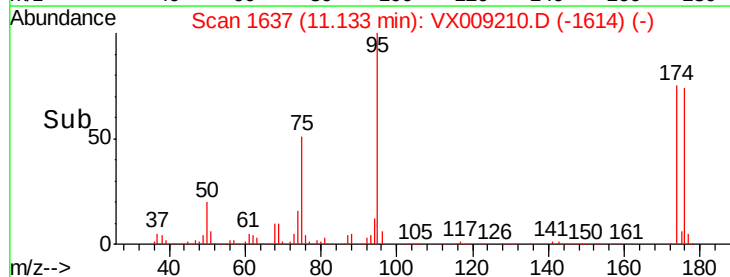
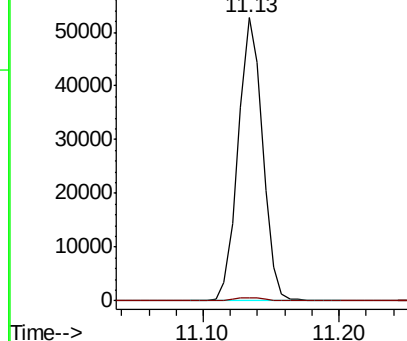
75 100

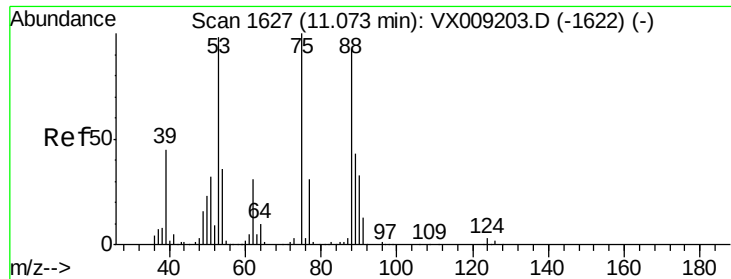
77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.086 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009210.D

Acq: 29 Apr 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

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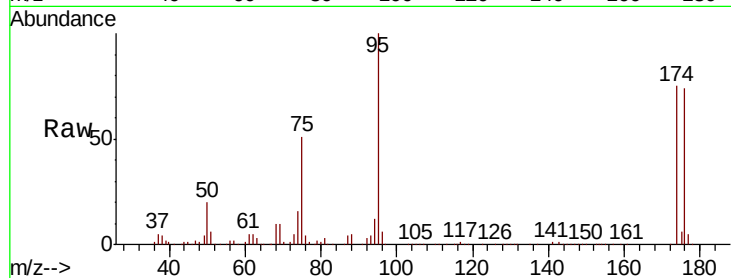
Tgt Ion: 75 Resp: 66113

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

