

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040919\
 Data File : VX008792.D
 Acq On : 09 Apr 2019 23:35
 Operator : JC/SP
 Sample : K2199-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-040819-A

Quant Time: Apr 10 06:43:18 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	5.67	168	210704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	352847	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	318973	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	148688	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	144603	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	
35) Dibromofluoromethane	5.50	113	106858	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	8.71	98	447680	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.13	95	157264	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	

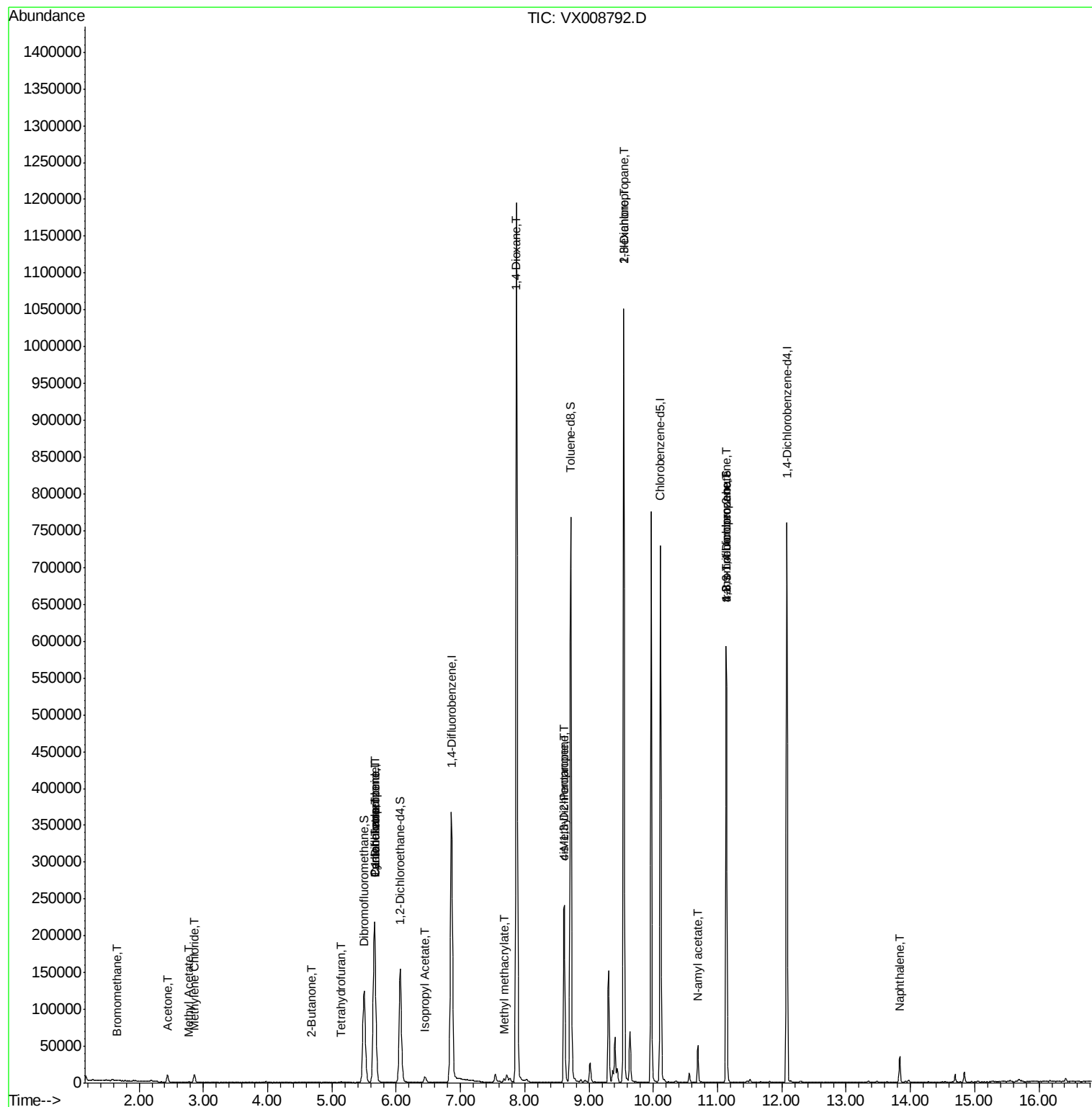
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	177	Below Cal	#	53
5) Bromomethane	1.66	94	41	1.910	ug/l	83
6) Chloroethane	1.73	64	128	Below Cal	#	43
16) Acetone	2.44	43	11000	6.214	ug/l	95
17) Carbon Disulfide	2.57	76	331	Below Cal	#	75
18) Methyl Acetate	2.78	43	1341	0.312	ug/l	100
20) Methylene Chloride	2.86	84	4779	1.613	ug/l	93
25) 2-Butanone	4.69	43	1843	0.659	ug/l #	74
28) Bromochloromethane	5.00	49	23	Below Cal	#	22
29) Tetrahydrofuran	5.14	42	1430	0.770	ug/l #	87
31) Cyclohexane	5.67	56	5029	0.947	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16731	4.338	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20051	6.281	ug/l #	17
43) Isopropyl Acetate	6.45	43	12110	1.502	ug/l	99
48) Methyl methacrylate	7.68	41	7002	1.716	ug/l #	18
49) 1,4-Dioxane	7.88	88	196	2.565	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	84612	16.298	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	36868	8.031	ug/l #	58
57) 1,3-Dichloropropane	9.54	76	8504	1.742	ug/l #	44
59) 2-Hexanone	9.54	43	132350	32.804	ug/l #	52
74) N-amyl acetate	10.69	43	12750	1.759	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	80270	19.652	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	80270	54.171	ug/l #	9
95) Naphthalene	13.83	128	21050	1.720	ug/l	99

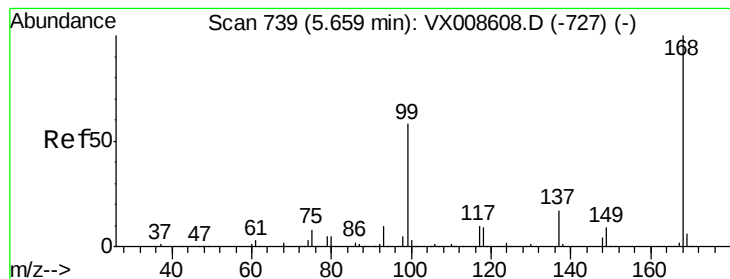
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040919\
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Quant Time: Apr 10 06:43:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

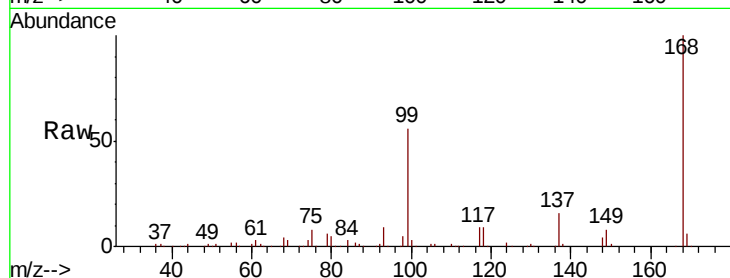
OR-03-040819-A

Tot Ion:168 Resp: 210704

Ion Ratio Lower Upper

168 100

99 56.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

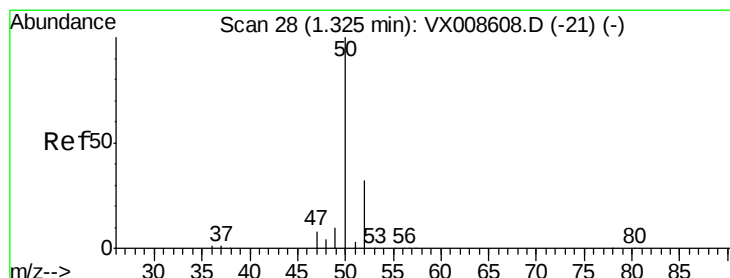
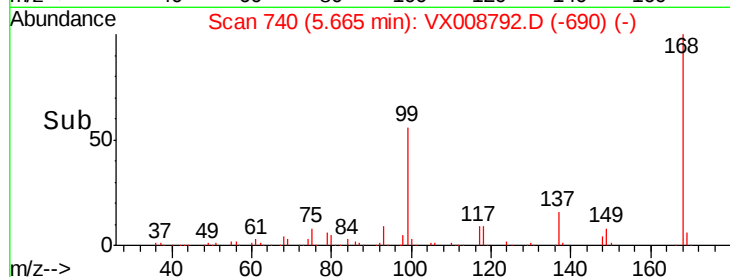
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008792.D

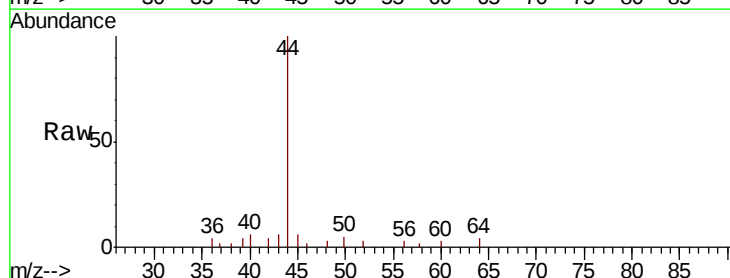
Acq: 09 Apr 2019 23:35

Tgt Ion: 50 Resp: 177

Ion Ratio Lower Upper

50 100

52 58.5 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

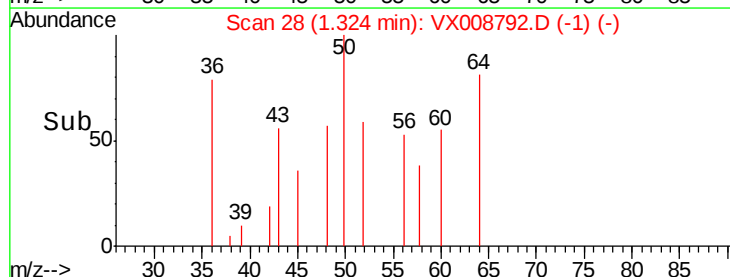
150

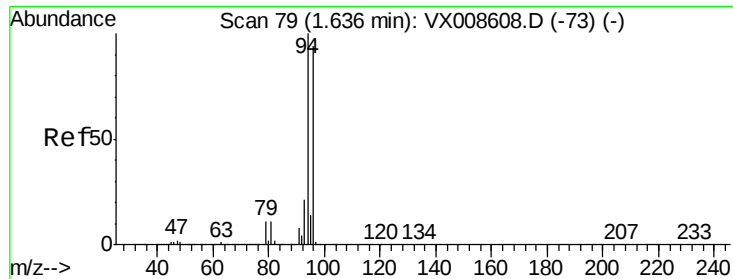
100

50

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 1.910 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

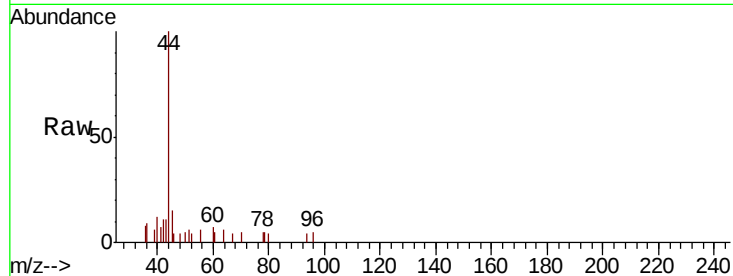
OR-03-040819-A

Tot Ion: 94 Resp: 41

Ion Ratio Lower Upper

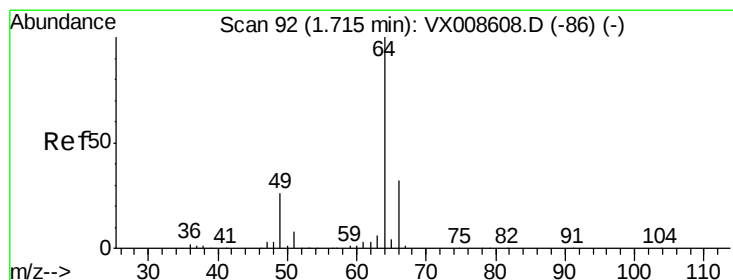
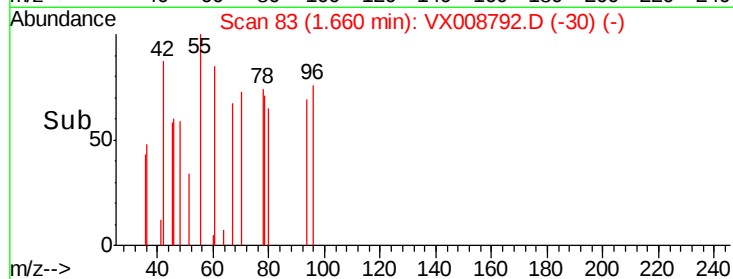
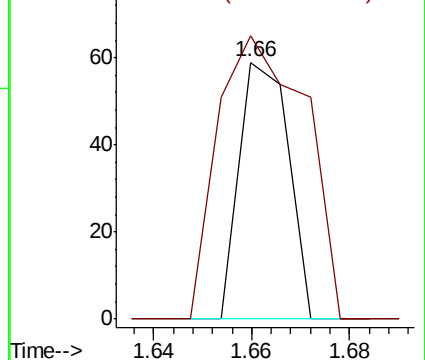
94 100

96 110.2 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: VX008792.D

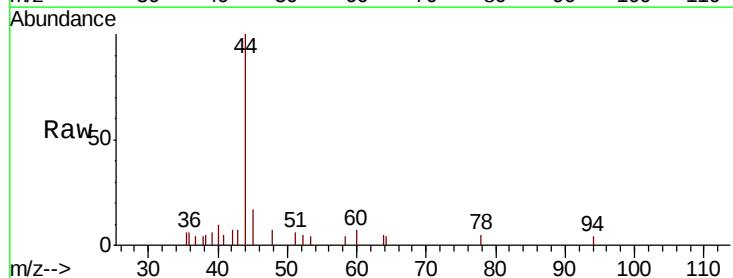
Acq: 09 Apr 2019 23:35

Tgt Ion: 64 Resp: 128

Ion Ratio Lower Upper

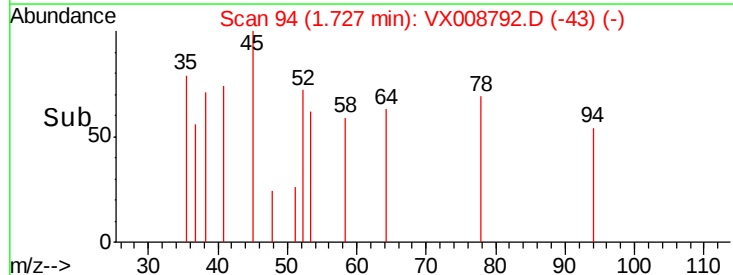
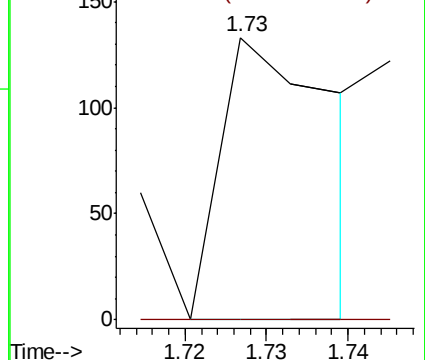
64 100

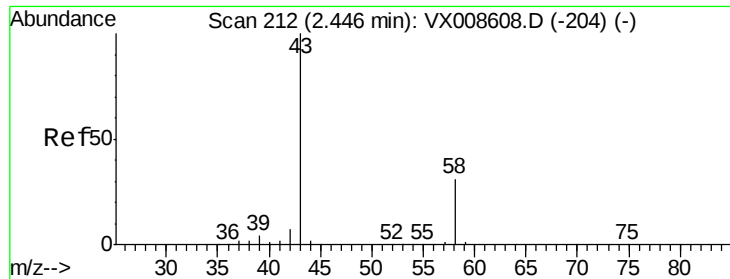
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#16

Acetone

Concen: 6.214 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

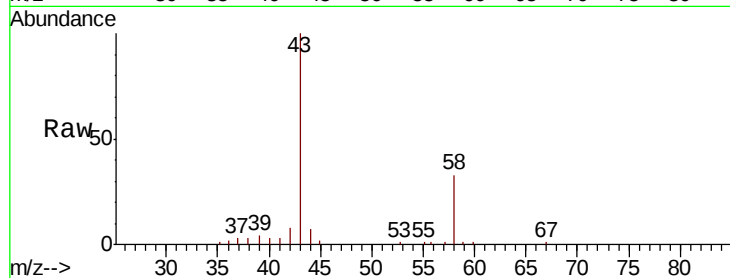
OR-03-040819-A

Tot Ion: 43 Resp: 11000

Ion Ratio Lower Upper

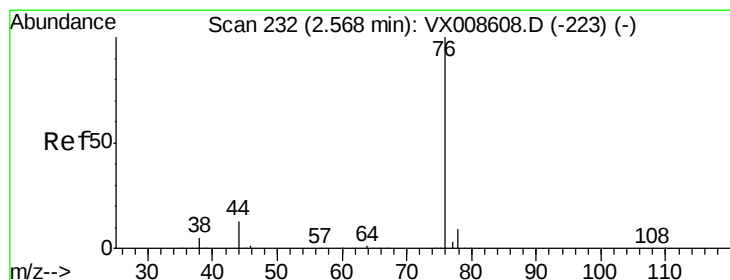
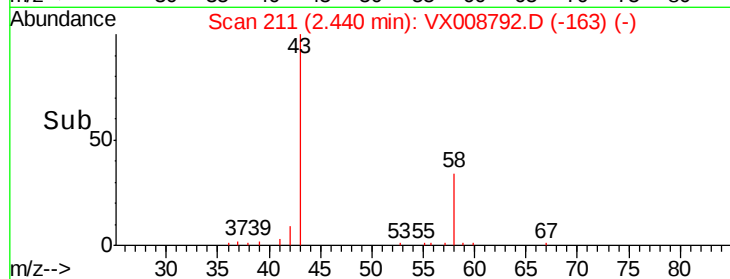
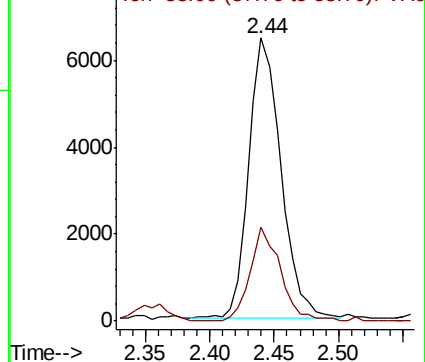
43 100

58 33.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008792.D

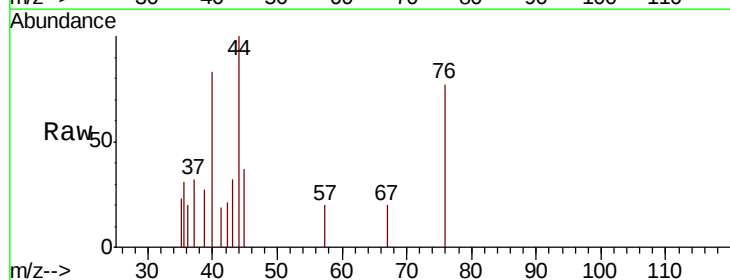
Acq: 09 Apr 2019 23:35

Tgt Ion: 76 Resp: 331

Ion Ratio Lower Upper

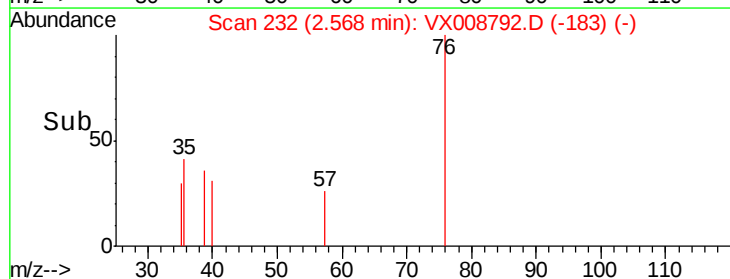
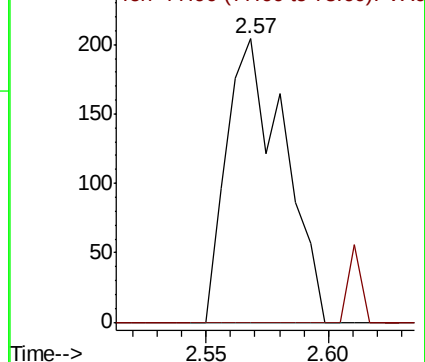
76 100

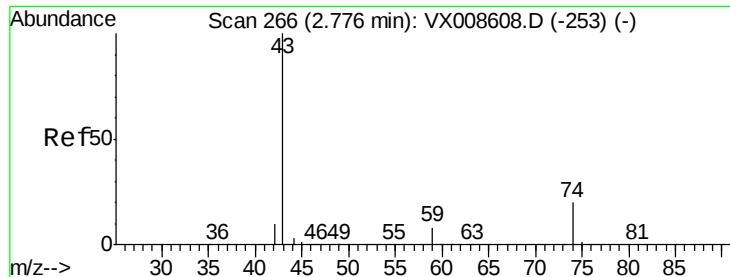
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

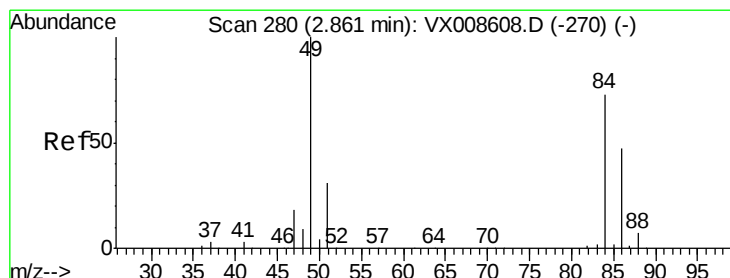
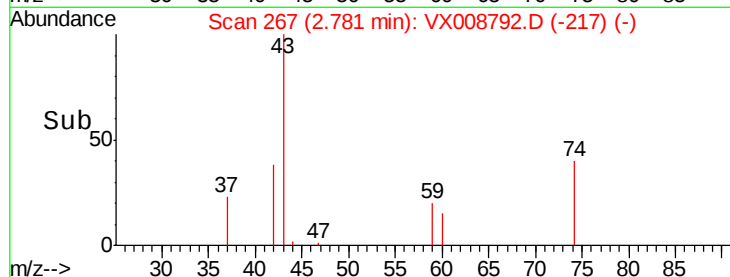
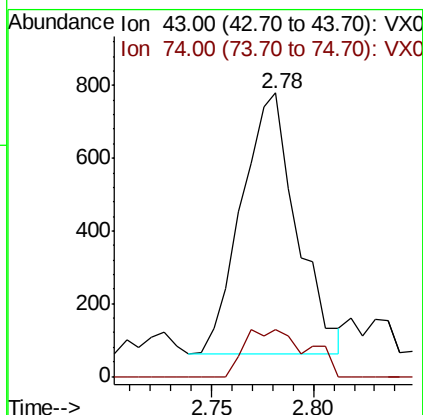
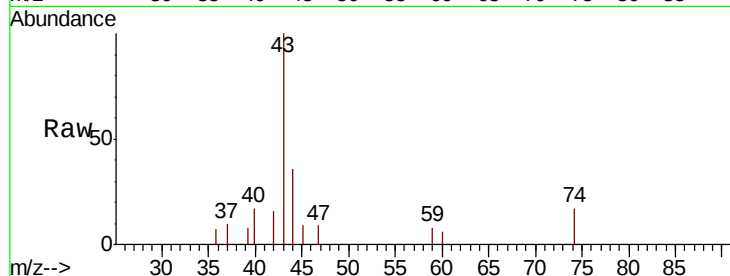




#18
Methvl Acetate
Concen: 0.312 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

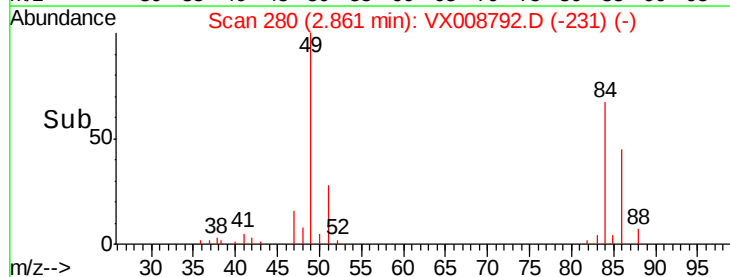
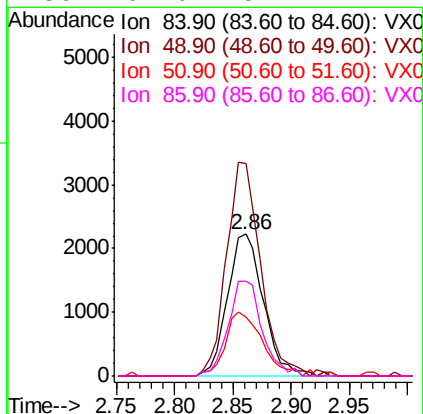
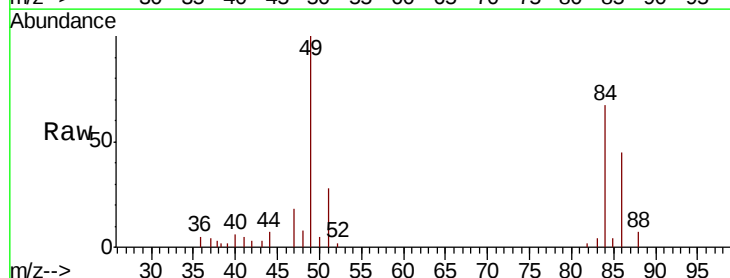
Instrument :
MSVOA_X
ClientSampleId :
OR-03-040819-A

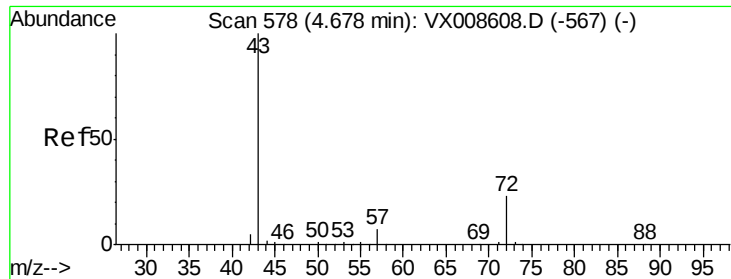
Tot Ion: 43 Resp: 1341
Ion Ratio Lower Upper
43 100
74 20.8 16.5 24.7



#20
Methylene Chloride
Concen: 1.613 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Tgt Ion: 84 Resp: 4779
Ion Ratio Lower Upper
84 100
49 150.0 109.7 164.5
51 41.3 33.6 50.4
86 67.0 51.4 77.2





#25

2-Butanone

Concen: 0.659 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

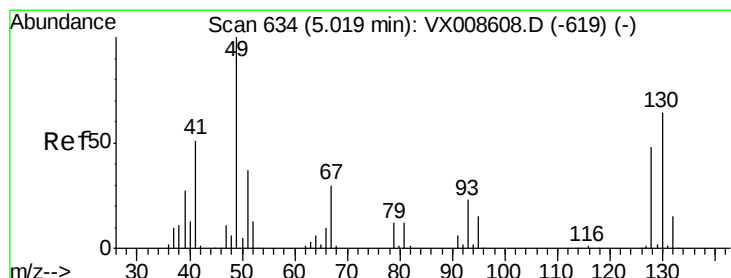
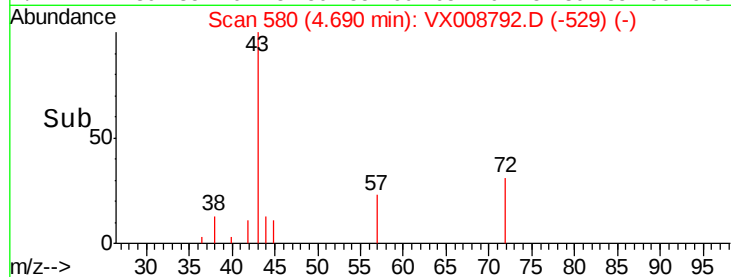
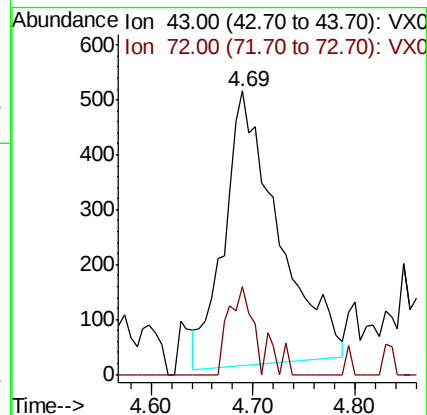
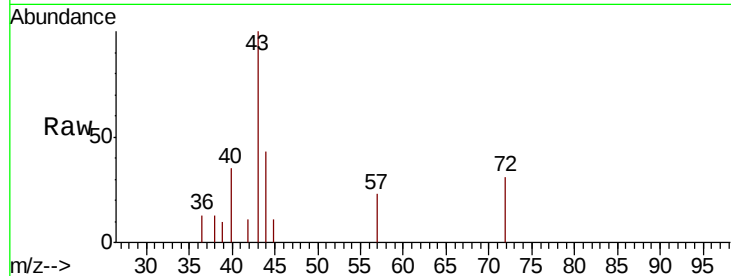
OR-03-040819-A

Tot Ion: 43 Resp: 1843

Ion Ratio Lower Upper

43 100

72 35.3 18.2 27.4#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

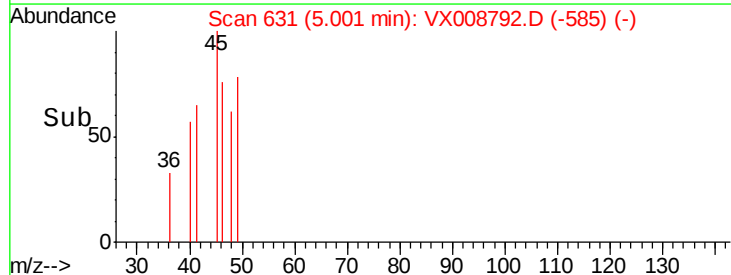
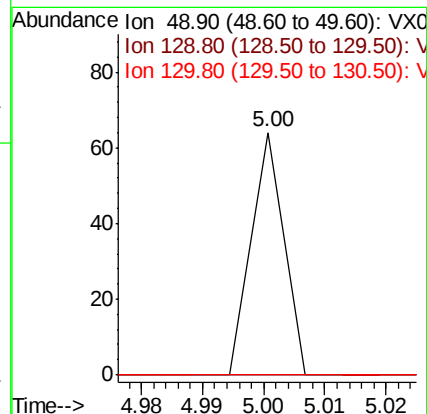
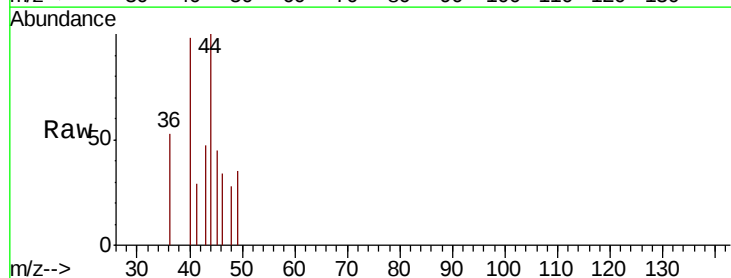
Tgt Ion: 49 Resp: 23

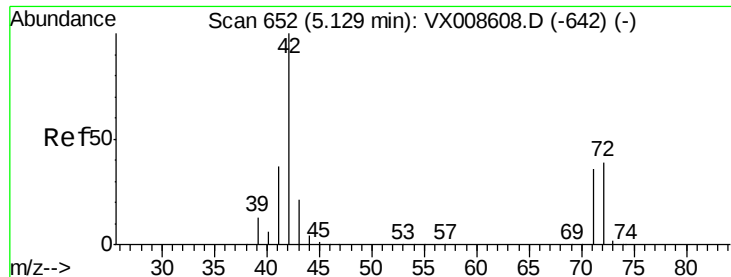
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 49.3 73.9#

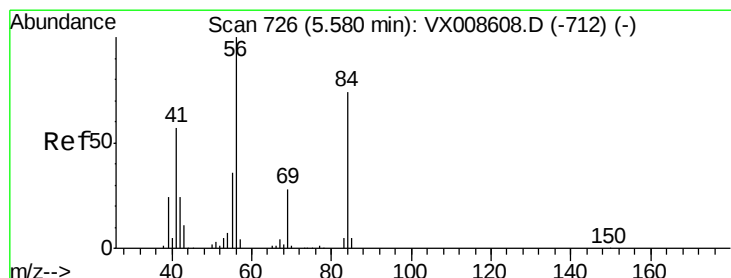
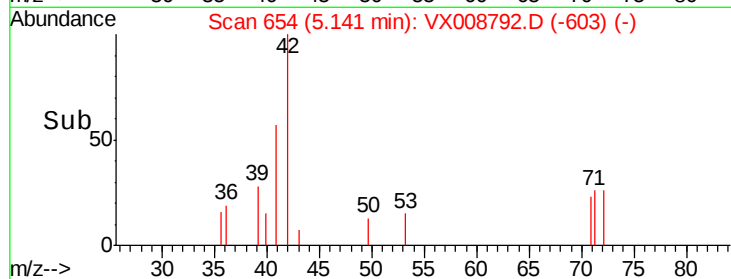
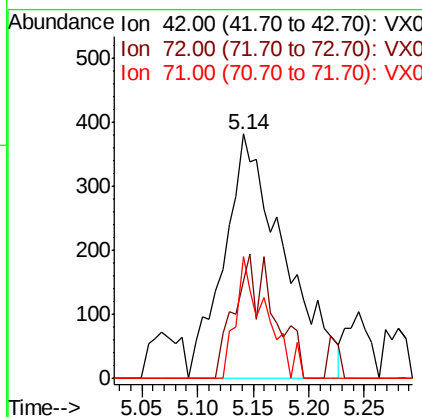
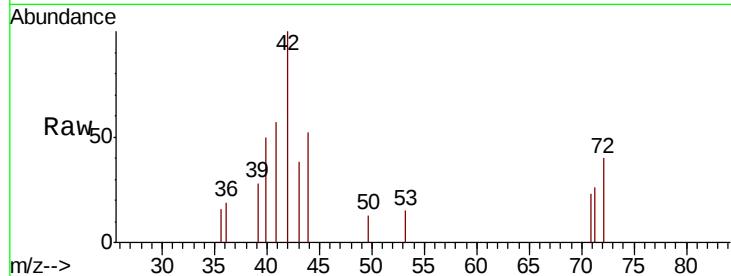




#29
Tetrahydrofuran
Concen: 0.770 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

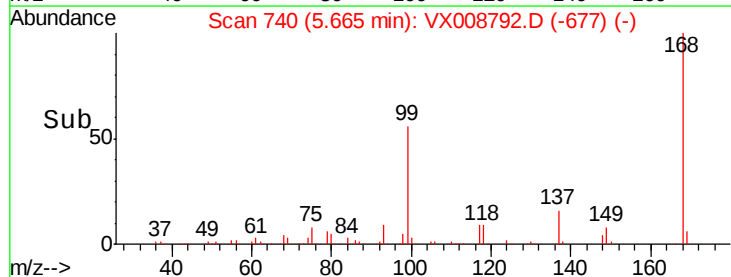
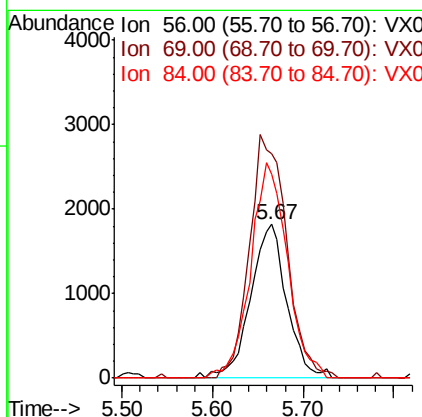
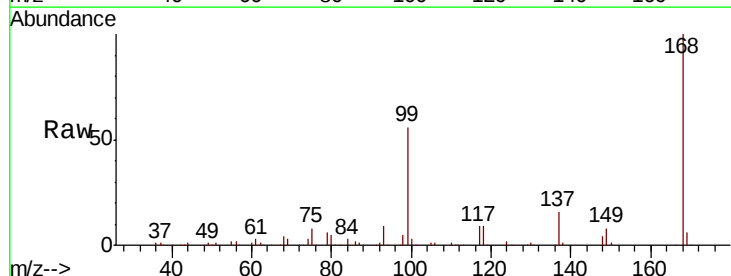
Instrument :
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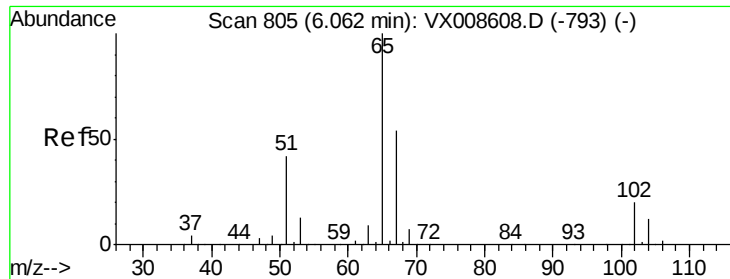
Tot Ion: 42 Resp: 1430
Ion Ratio Lower Upper
42 100
72 33.4 30.5 45.7
71 24.9 28.6 43.0#



#31
Cyclohexane
Concen: 0.947 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Tgt Ion: 56 Resp: 5029
Ion Ratio Lower Upper
56 100
69 146.0 22.6 33.8#
84 132.7 59.3 88.9#





#33

1,2-Dichloroethane-d4

Concen: 47.052 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

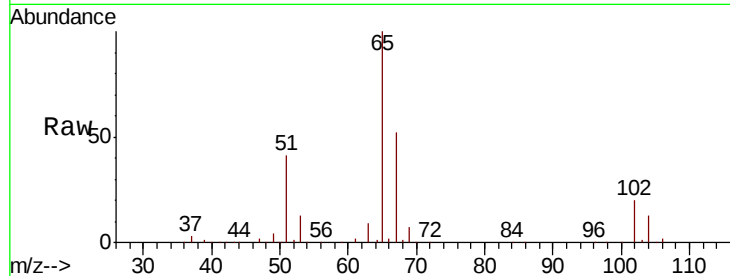
OR-03-040819-A

Tot Ion: 65 Resp: 144603

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

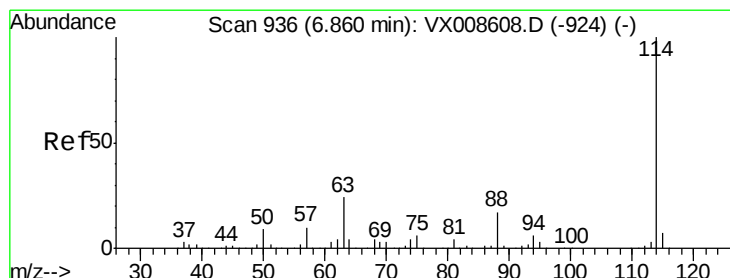
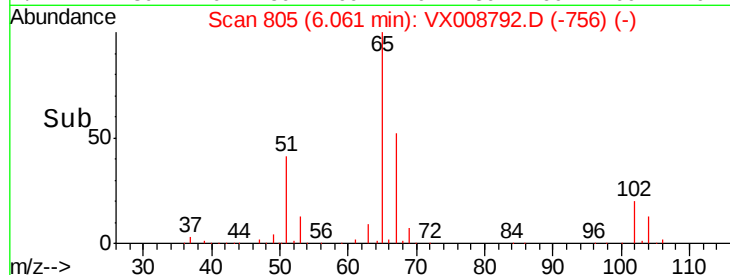
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

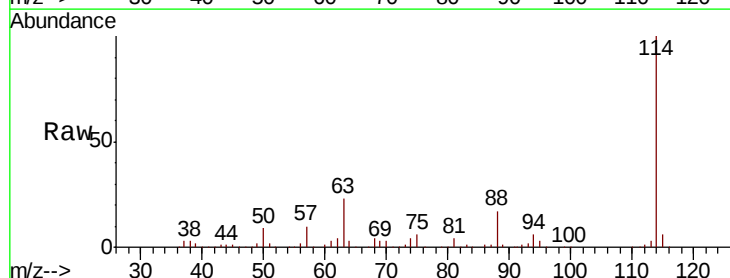
Tgt Ion: 114 Resp: 352847

Ion Ratio Lower Upper

114 100

63 22.7 0.0 47.2

88 16.6 0.0 34.0



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

200000

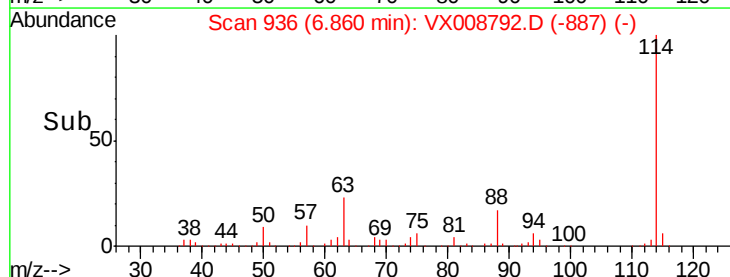
150000

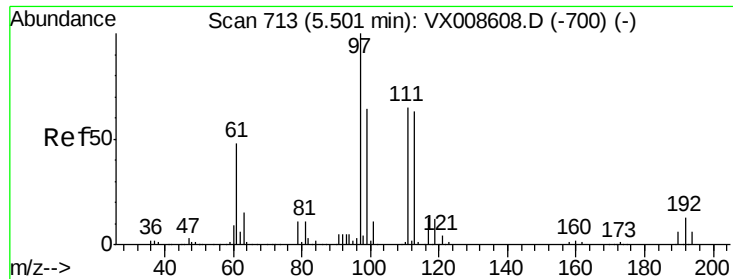
100000

50000

0

Time--> 6.70 6.80 6.90 7.00

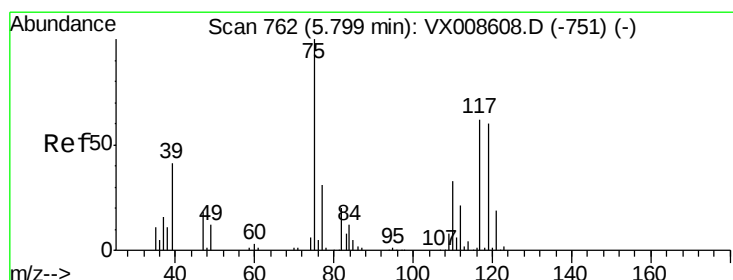
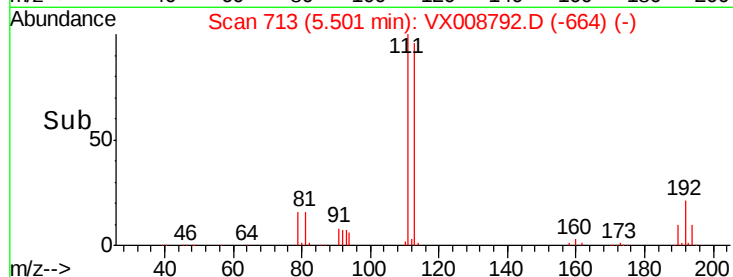
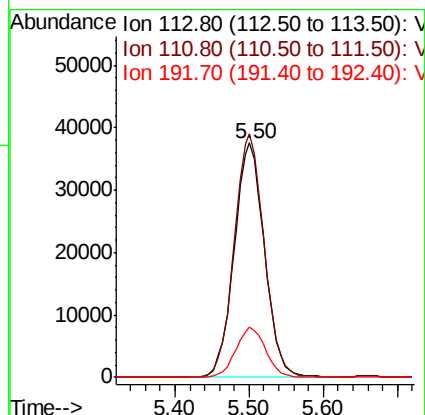
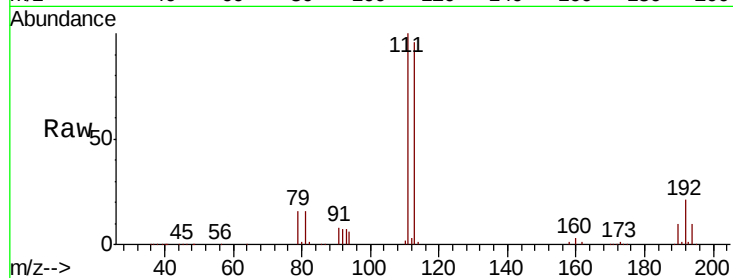




#35
 Dibromofluoromethane
 Concen: 47.367 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008792.D
 Acq: 09 Apr 2019 23:35

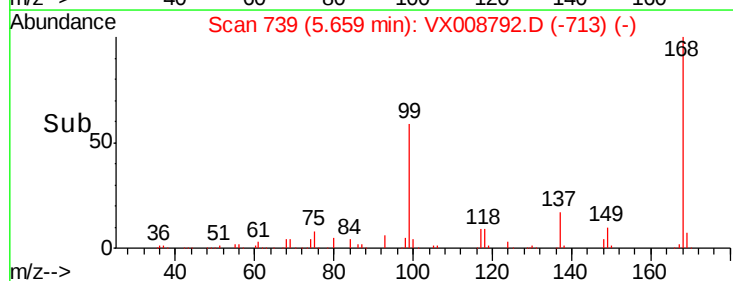
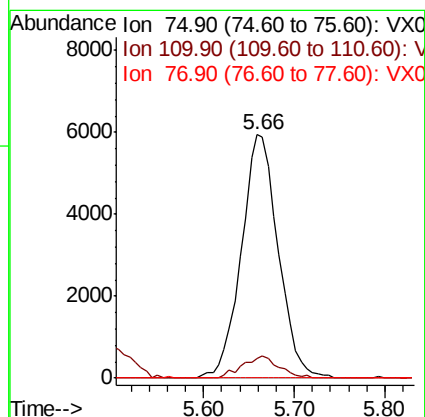
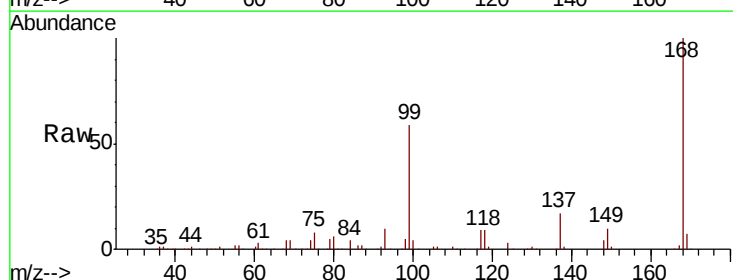
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-040819-A

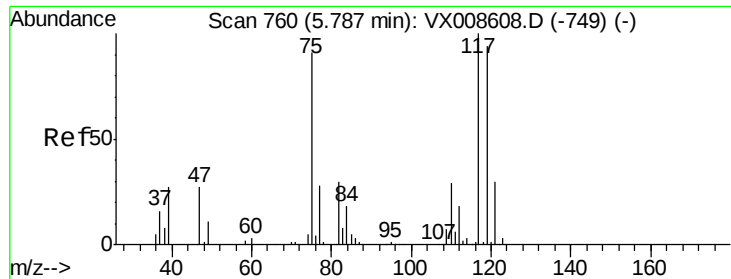
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.4	125.2
192	21.0	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 4.338 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008792.D
 Acq: 09 Apr 2019 23:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.4	49.2#
77	0.0	24.7	37.1#

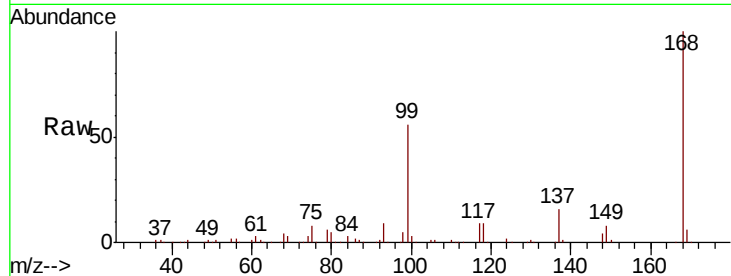




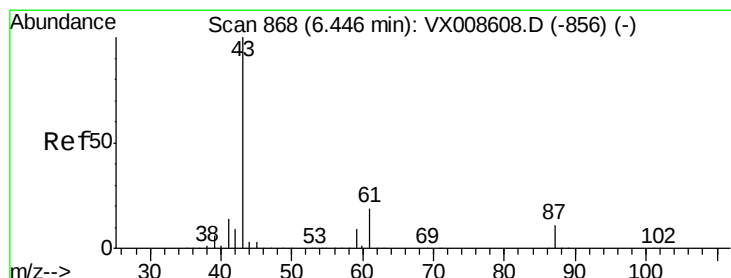
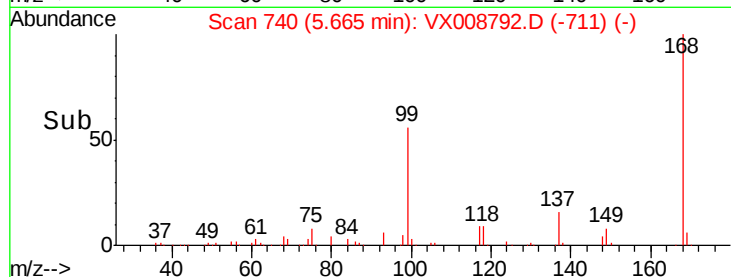
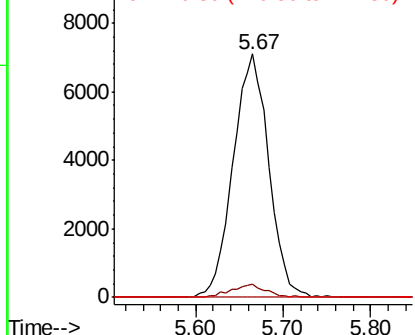
#38
Carbon Tetrachloride
Concen: 6.281 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Instrument :
MSVOA_X
ClientSampleId :
OR-03-040819-A

Tot Ion:117 Resp: 20051
Ion Ratio Lower Upper
117 100
119 5.2 75.0 112.6#
121 0.0 24.3 36.5#

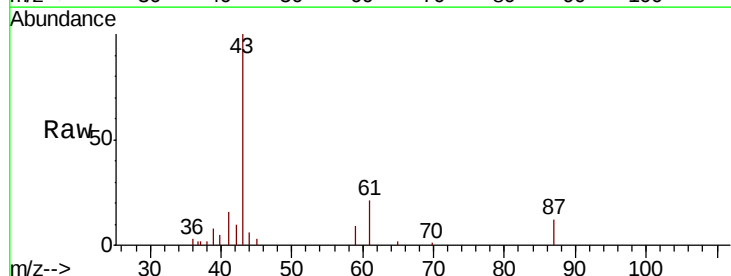


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

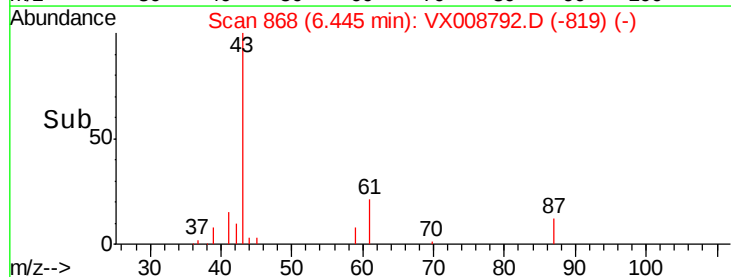
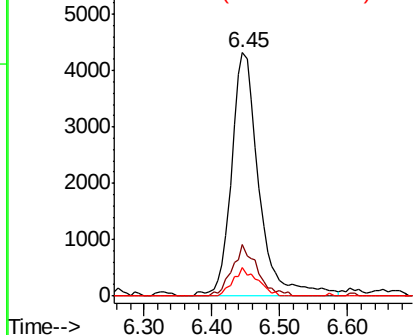


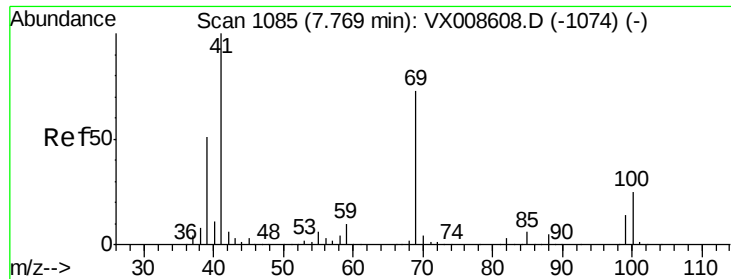
#43
Isopropyl Acetate
Concen: 1.502 ug/l
RT: 6.45 min Scan# 868
Delta R.T. -0.00 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Tgt Ion: 43 Resp: 12110
Ion Ratio Lower Upper
43 100
61 19.4 15.3 22.9
87 10.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.716 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

OR-03-040819-A

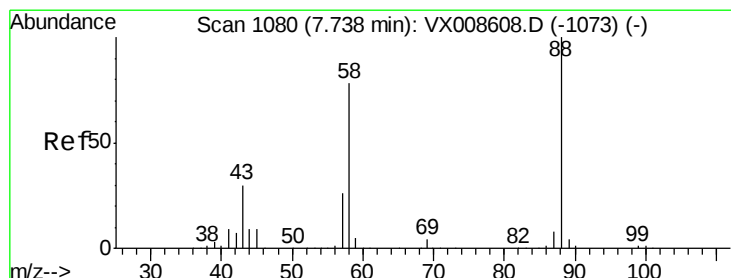
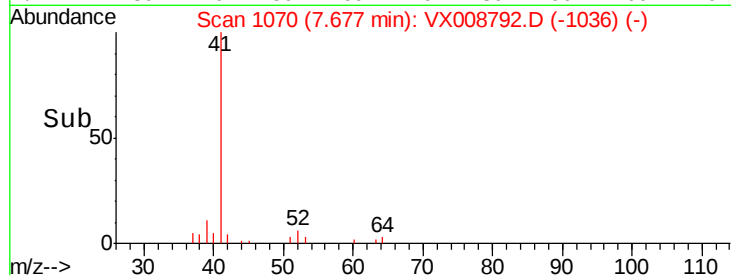
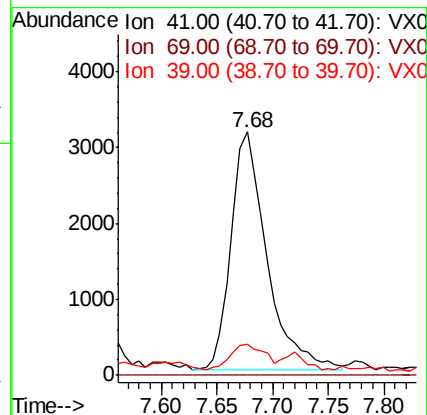
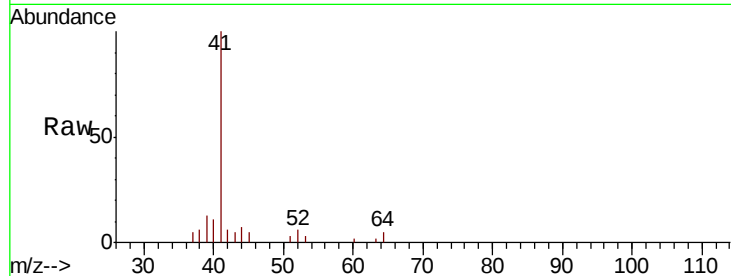
Tot Ion: 41 Resp: 7002

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.4#

39 0.0 41.0 61.4#



#49

1,4-Dioxane

Concen: 2.565 ug/l

RT: 7.88 min Scan# 1103

Delta R.T. 0.14 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

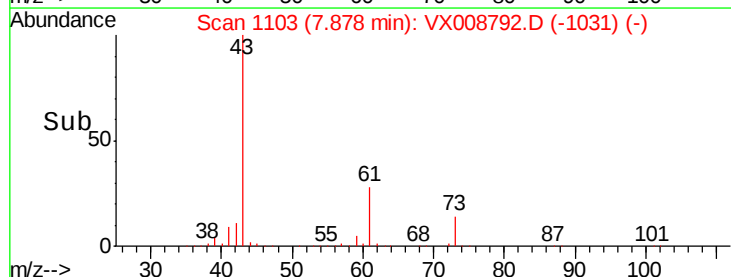
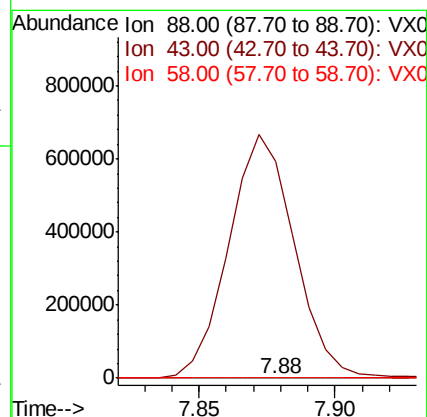
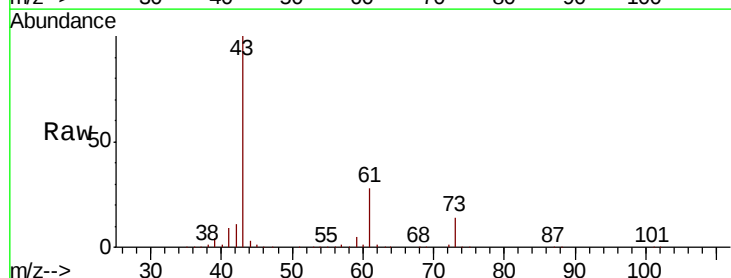
Tgt Ion: 88 Resp: 196

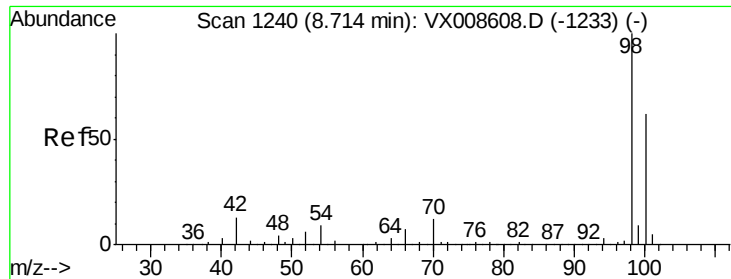
Ion Ratio Lower Upper

88 100

43 572889.8 28.6 43.0#

58 2163.3 62.2 93.2#

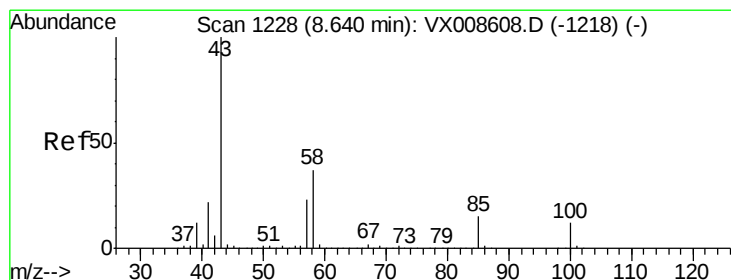
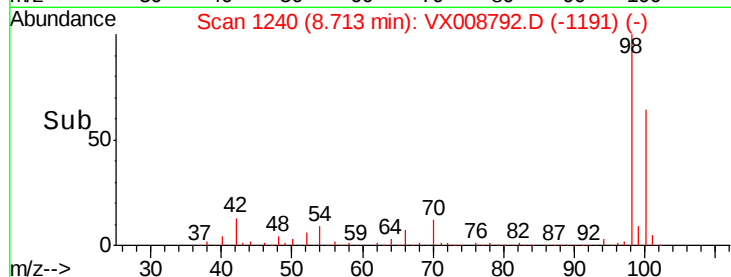
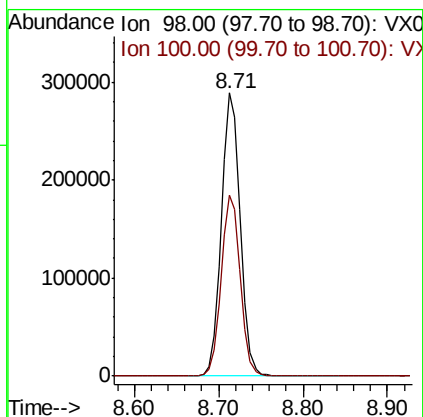
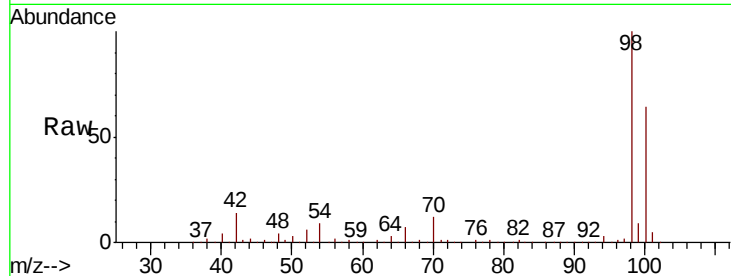




#50
Toluene-d8
Concen: 49.838 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

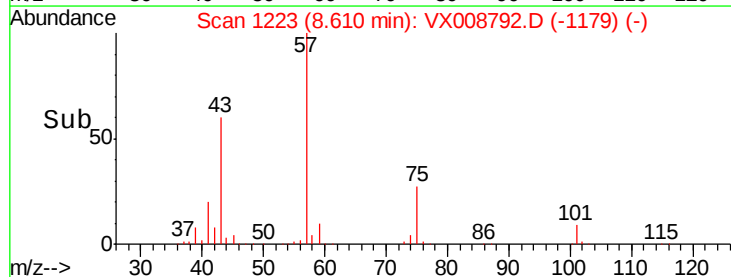
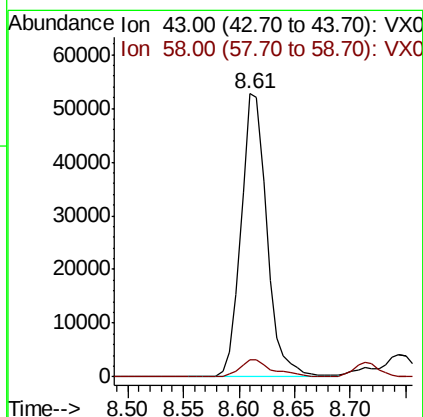
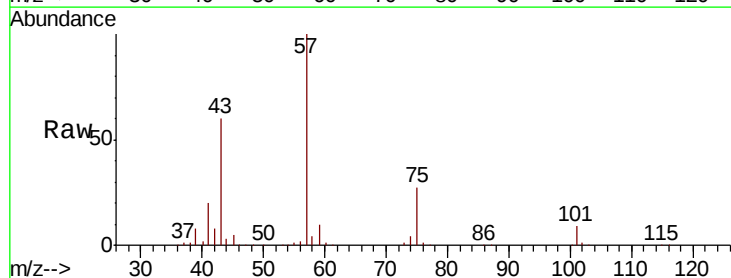
Instrument :
MSVOA_X
ClientSampleId :
OR-03-040819-A

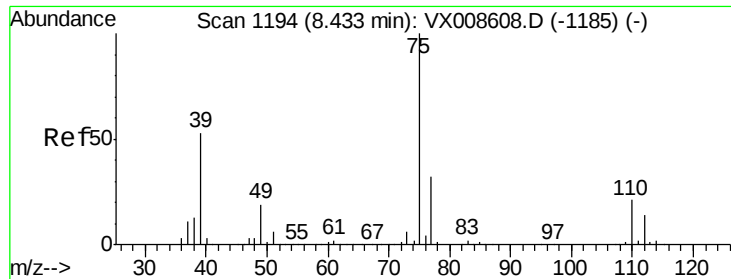
Tot Ion: 98 Resp: 447680
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 16.298 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Tgt Ion: 43 Resp: 84612
Ion Ratio Lower Upper
43 100
58 7.5 29.5 44.3#





#54

cis-1,3-Dichloropropene

Concen: 8.031 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

OR-03-040819-A

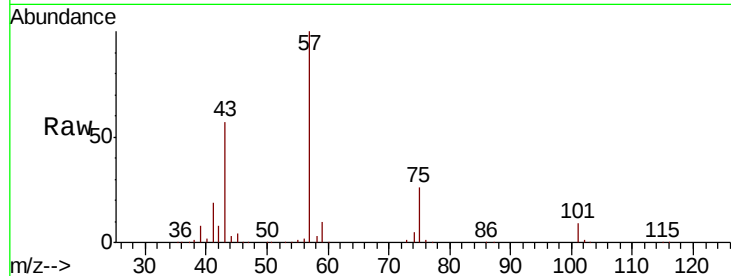
Tot Ion: 75 Resp: 36868

Ion Ratio Lower Upper

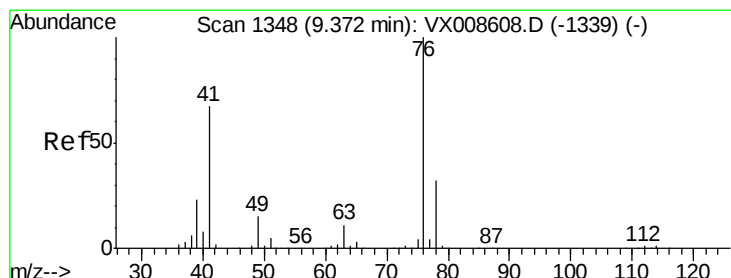
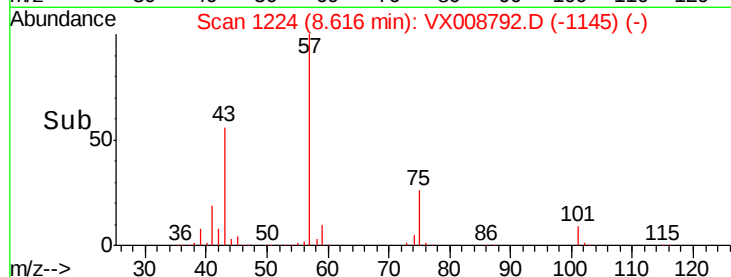
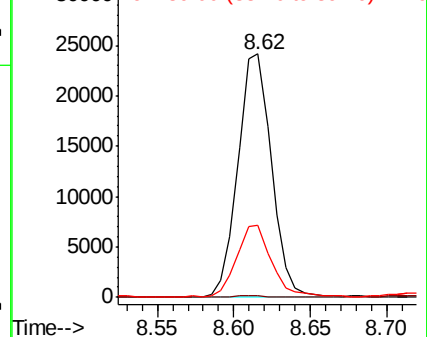
75 100

77 0.6 25.3 37.9#

39 29.3 42.6 63.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.742 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX008792.D

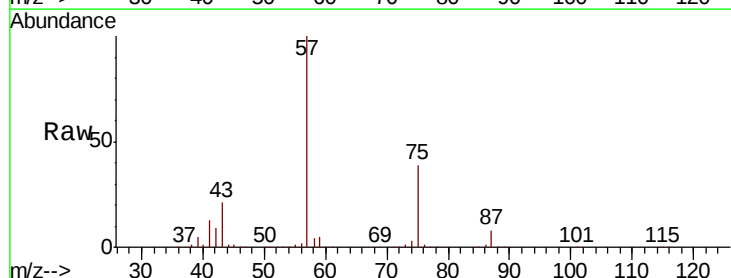
Acq: 09 Apr 2019 23:35

Tgt Ion: 76 Resp: 8504

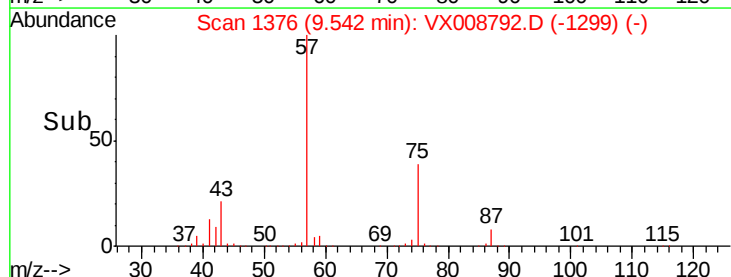
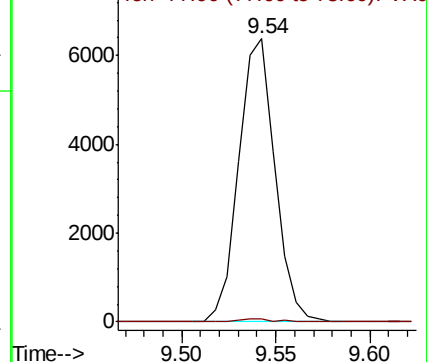
Ion Ratio Lower Upper

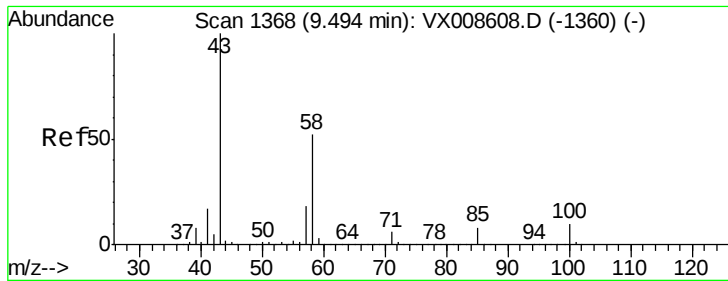
76 100

78 1.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 32.804 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

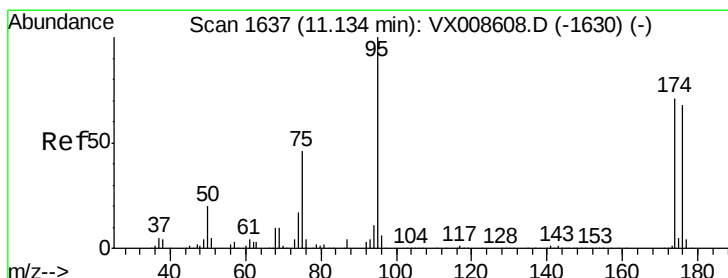
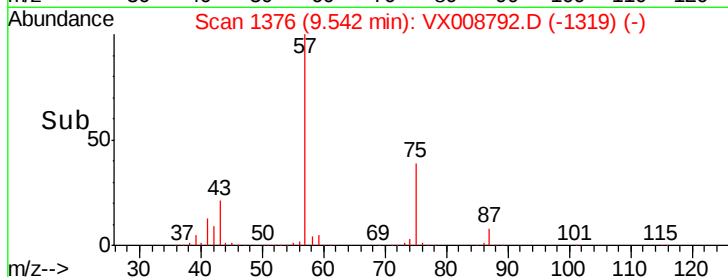
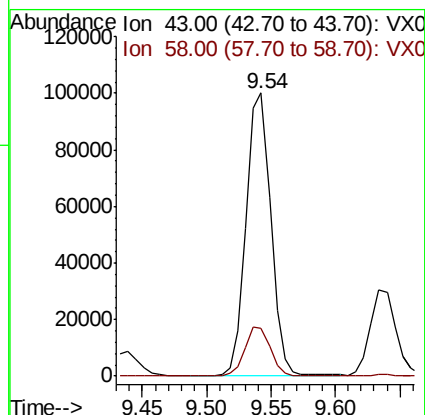
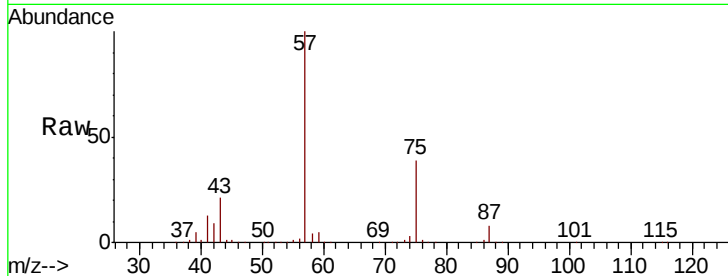
OR-03-040819-A

Tot Ion: 43 Resp: 132350

Ion Ratio Lower Upper

43 100

58 18.1 25.9 77.7#



#62

4-Bromofluorobenzene

Concen: 49.370 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

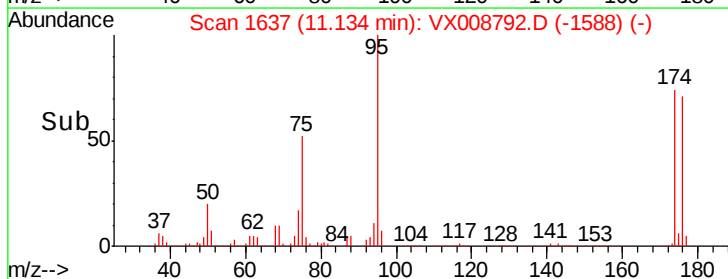
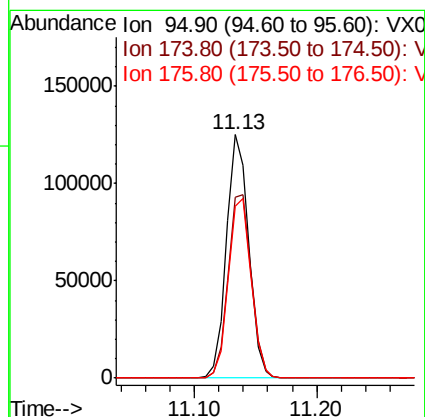
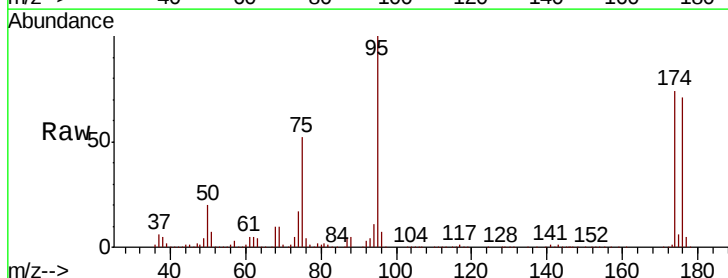
Tgt Ion: 95 Resp: 157264

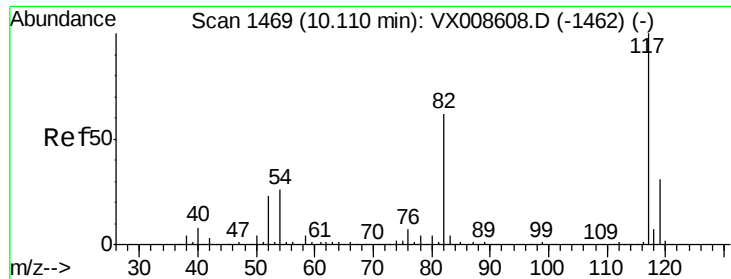
Ion Ratio Lower Upper

95 100

174 78.9 0.0 151.8

176 75.7 0.0 145.8

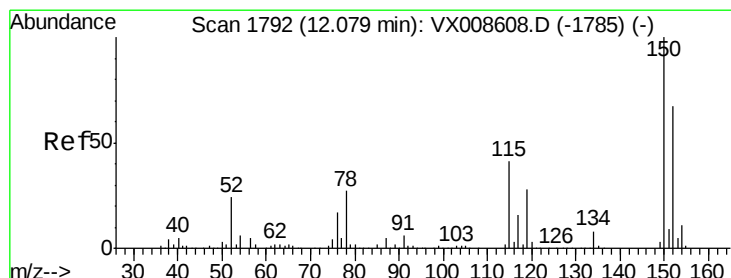
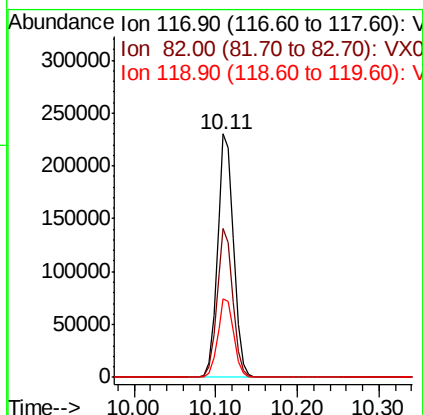
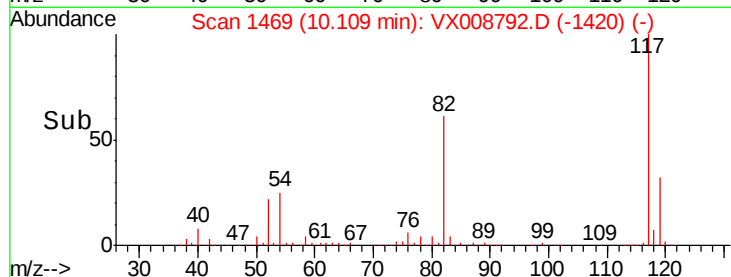
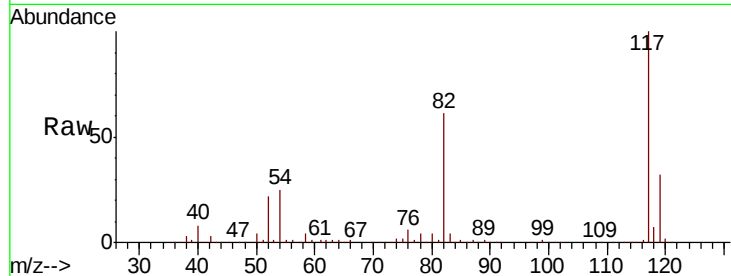




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

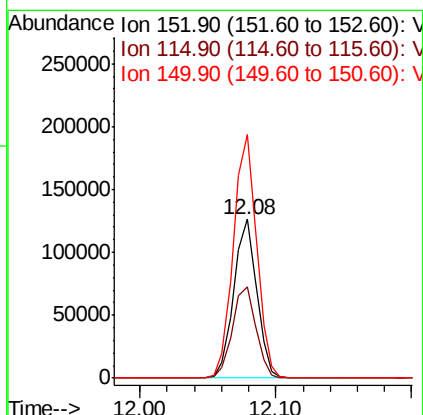
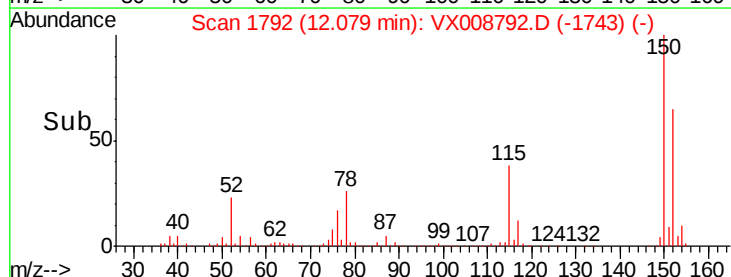
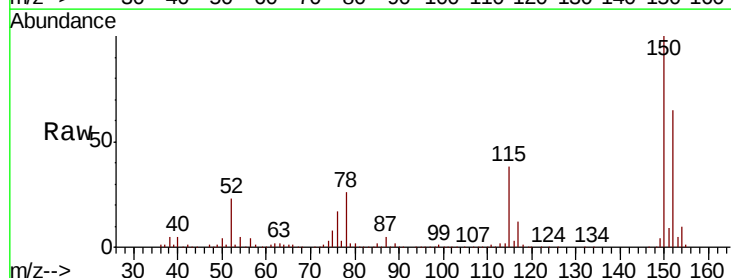
Instrument :
MSVOA_X
ClientSampleId :
OR-03-040819-A

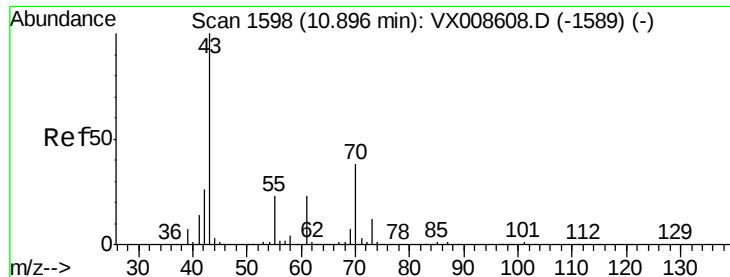
Tot Ion:117 Resp: 318973
Ion Ratio Lower Upper
117 100
82 61.4 49.6 74.4
119 32.4 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Tgt Ion:152 Resp: 148688
Ion Ratio Lower Upper
152 100
115 59.6 43.5 130.5
150 155.3 0.0 348.8





#74

N-amvl acetate

Concen: 1.759 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX008792.D

Acq: 09 Apr 2019 23:35

Instrument :

MSVOA_X

ClientSampleId :

OR-03-040819-A

Tot Ion: 43 Resp: 12750

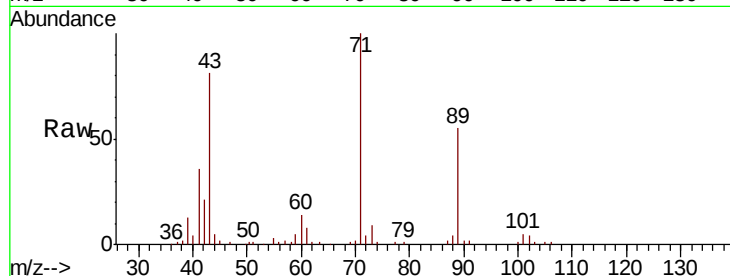
Ion Ratio Lower Upper

43 100

70 2.4 30.2 45.4#

55 4.4 18.2 27.4#

61 10.5 18.6 28.0#

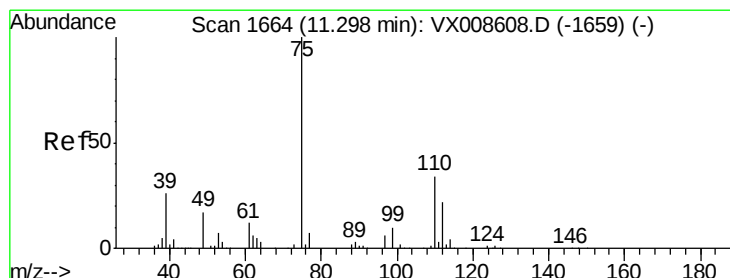
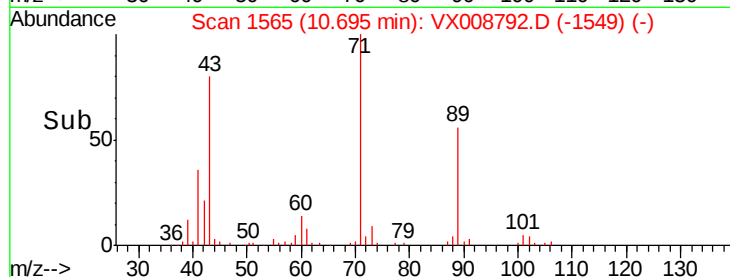
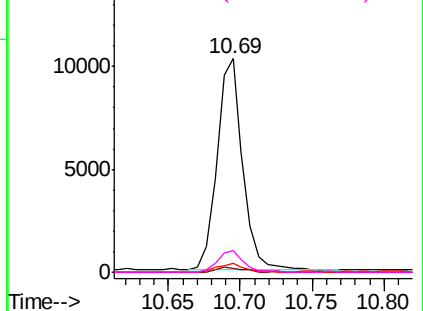


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 19.652 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008792.D

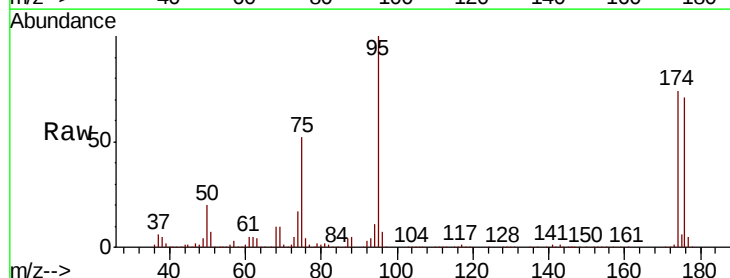
Acq: 09 Apr 2019 23:35

Tgt Ion: 75 Resp: 80270

Ion Ratio Lower Upper

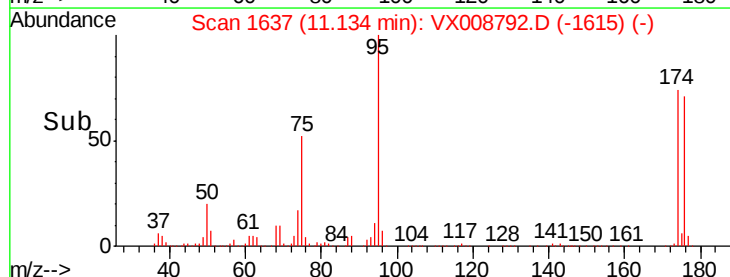
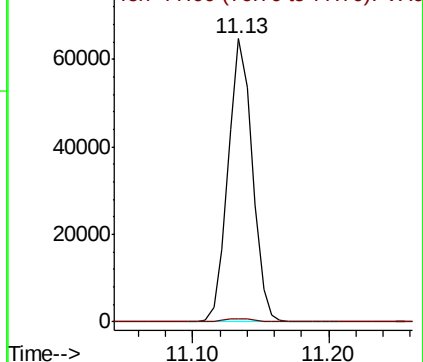
75 100

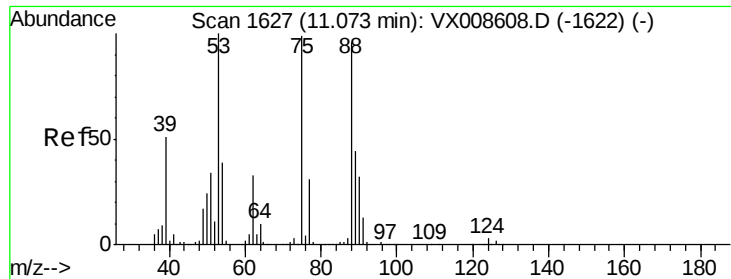
77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

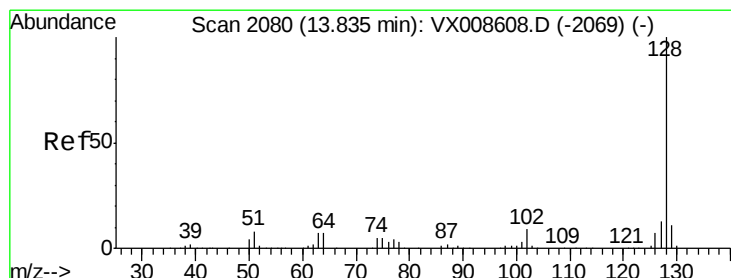
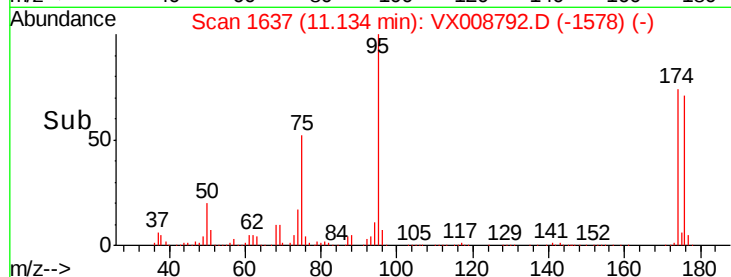
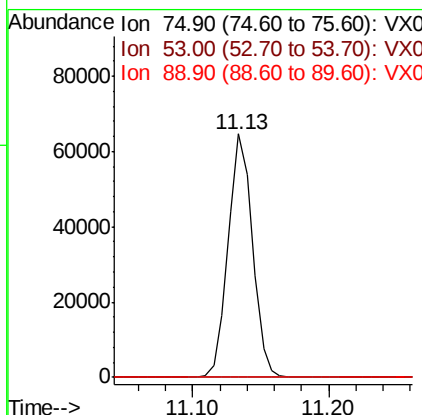
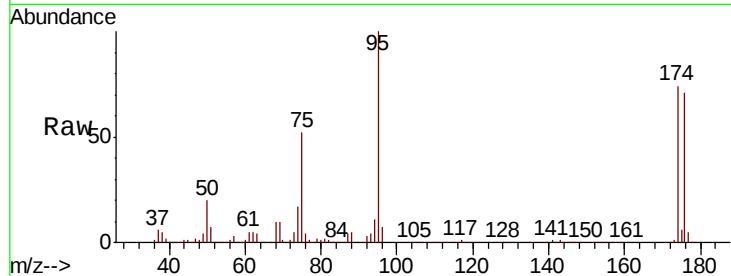




#81
trans-1,4-Dichloro-2-butene
Concen: 54.171 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Instrument :
MSVOA_X
ClientSampleId :
OR-03-040819-A

Tot Ion: 75 Resp: 80270
Ion Ratio Lower Upper
75 100
53 0.0 81.3 121.9#
89 0.0 35.6 53.4#



#95
Naphthalene
Concen: 1.720 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008792.D
Acq: 09 Apr 2019 23:35

Tgt Ion:128 Resp: 21050
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 11.2 8.6 13.0

