

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080719\
 Data File : VX011367.D
 Acq On : 07 Aug 2019 16:54
 Operator : JC/SP
 Sample : K4220-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB_080619

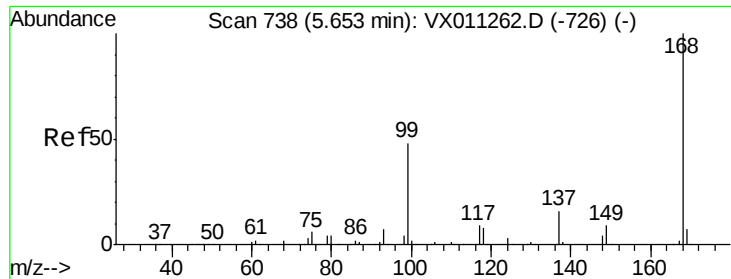
Quant Time: Aug 08 07:05:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	166812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	268368	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	255716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118133	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	95892	57.08	ug/l	0.00
Spiked Amount						
			Recovery	=	114.16%	
35) Dibromofluoromethane	5.49	113	87585	49.99	ug/l	0.00
Spiked Amount						
			Recovery	=	99.98%	
50) Toluene-d8	8.71	98	332233	50.23	ug/l	0.00
Spiked Amount						
			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	11.13	95	116449	49.32	ug/l	0.00
Spiked Amount						
			Recovery	=	98.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	390	0.344	ug/l #	65
6) Chloroethane	1.72	64	114	Below Cal	#	84
11) Tert butyl alcohol	3.01	59	10274	30.690	ug/l #	79
13) Acrolein	2.28	56	57	Below Cal	#	1
15) Acrylonitrile	3.13	53	185	0.231	ug/l #	32
16) Acetone	2.43	43	4427	5.537	ug/l	100
20) Methylene Chloride	2.85	84	757	0.432	ug/l #	83
25) 2-Butanone	4.69	43	1467	1.290	ug/l	99
26) 2,2-Dichloropropane	4.68	77	1642	0.806	ug/l #	49
31) Cyclohexane	5.64	56	3161	1.461	ug/l #	34
36) 1,1-Dichloropropene	5.66	75	11809	5.040	ug/l #	49
38) Carbon Tetrachloride	5.66	117	15902	6.746	ug/l #	15
49) 1,4-Dioxane	7.77	88	20	0.390	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	20	2.846	ug/l #	43
76) 1,2,3-Trichloropropane	11.13	75	58338	27.117	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	58338	70.381	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

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ClientSampleId :

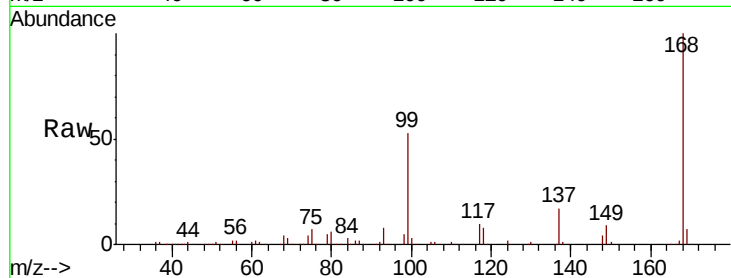
FB_080619

Tgt Ion:168 Resp: 166812

Ion Ratio Lower Upper

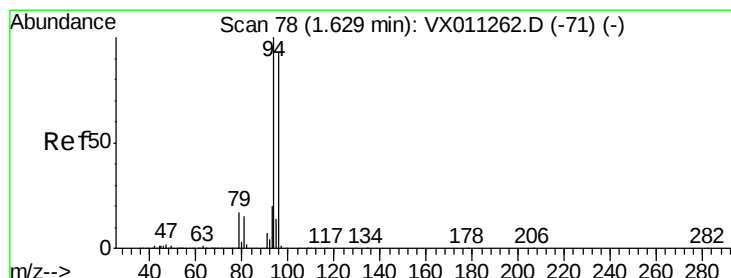
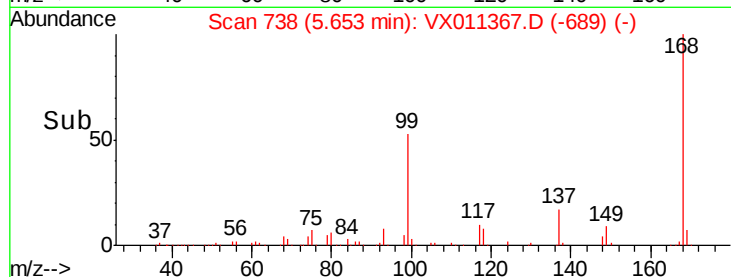
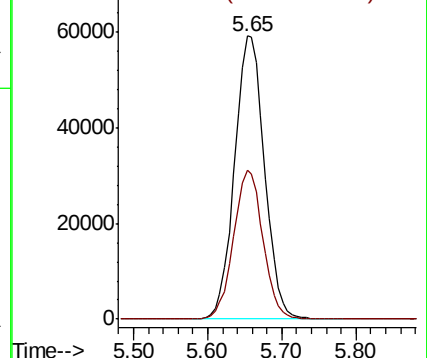
168 100

99 52.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.344 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011367.D

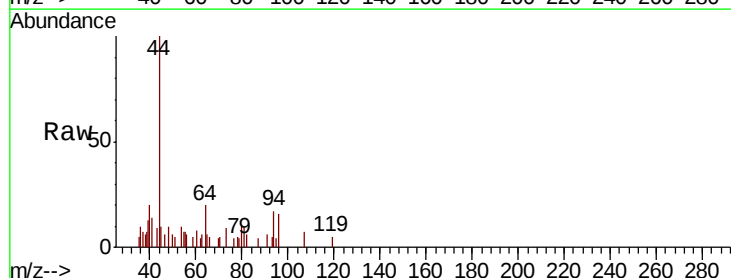
Acq: 07 Aug 2019 16:54

Tgt Ion: 94 Resp: 390

Ion Ratio Lower Upper

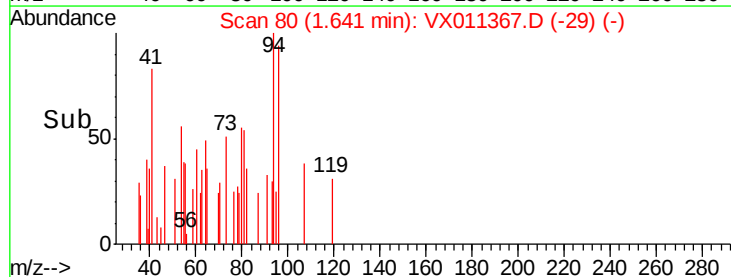
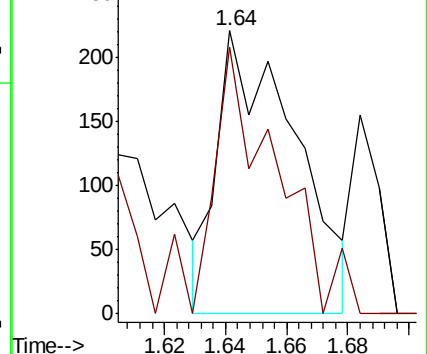
94 100

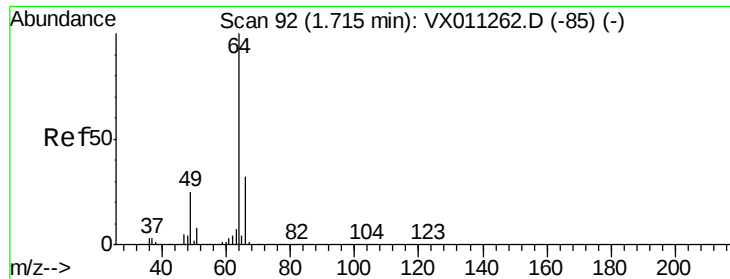
96 126.8 74.6 112.0#



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: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

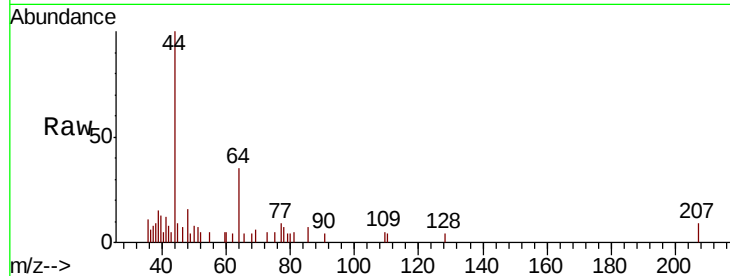
FB_080619

Tgt Ion: 64 Resp: 114

Ion Ratio Lower Upper

64 100

66 40.4 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

400

300

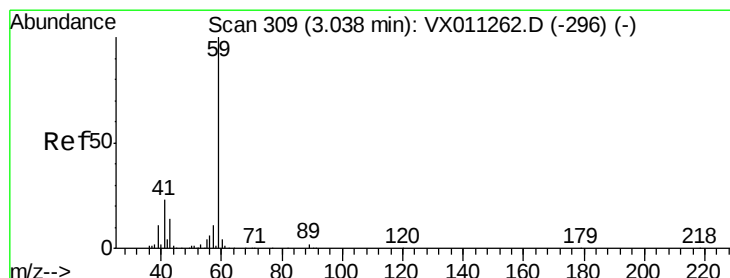
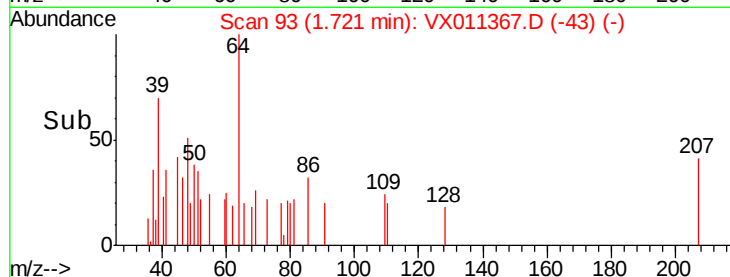
200

100

0

1.70 1.71 1.72 1.73

Time-->



#11

Tert butyl alcohol

Concen: 30.690 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011367.D

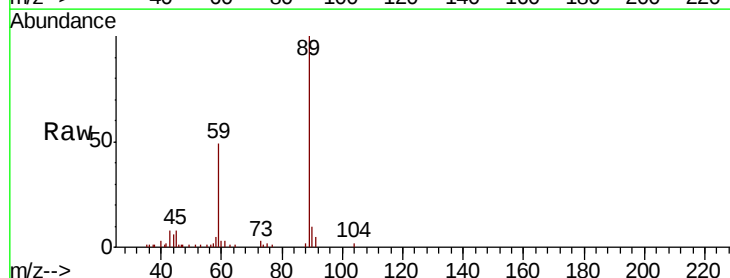
Acq: 07 Aug 2019 16:54

Tgt Ion: 59 Resp: 10274

Ion Ratio Lower Upper

59 100

57 2.4 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

4000

3000

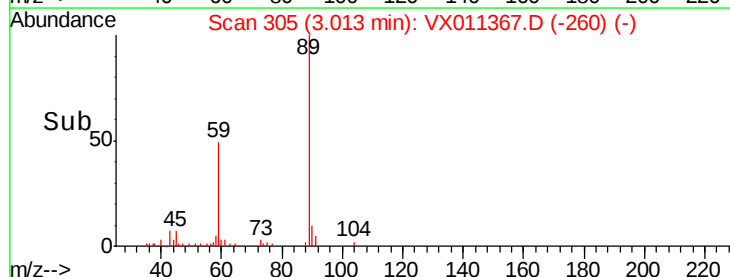
2000

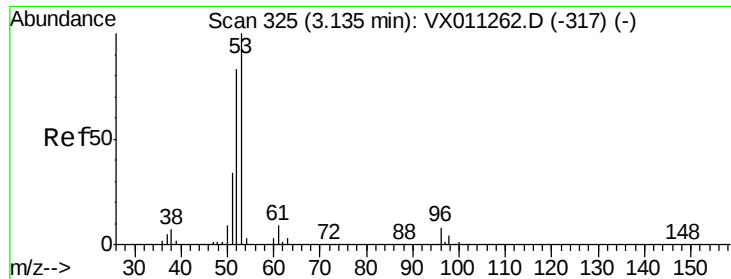
1000

0

2.90 3.00 3.10

Time-->





#15

Acrylonitrile

Concen: 0.231 ug/l

RT: 3.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

FB_080619

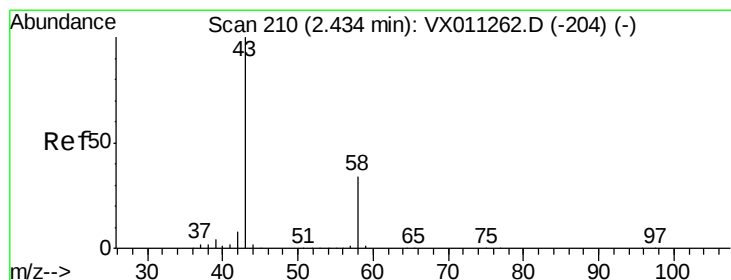
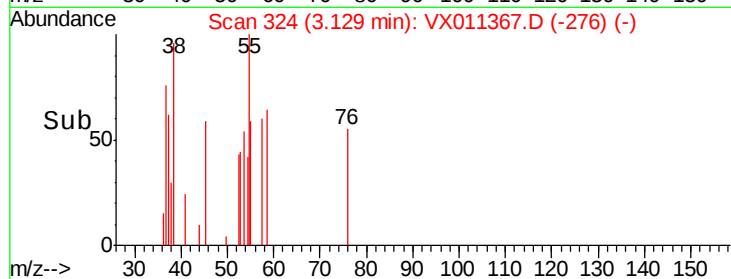
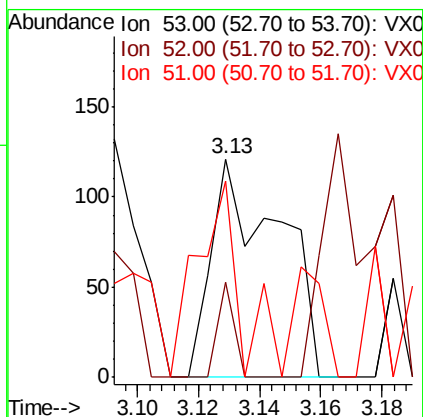
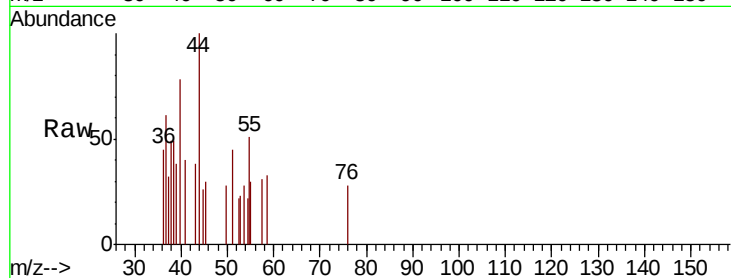
Tgt Ion: 53 Resp: 185

Ion Ratio Lower Upper

53 100

52 10.3 65.5 98.3#

51 58.4 27.9 41.9#



#16

Acetone

Concen: 5.537 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011367.D

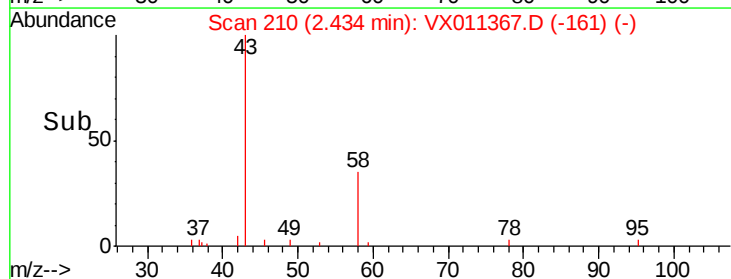
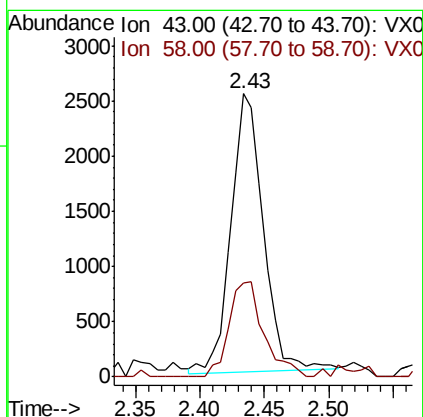
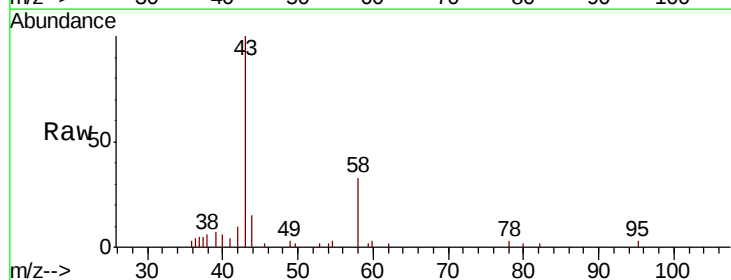
Acq: 07 Aug 2019 16:54

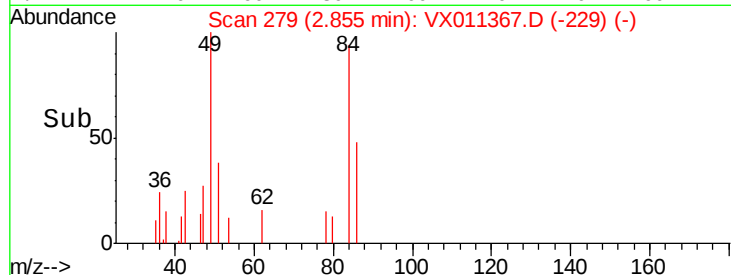
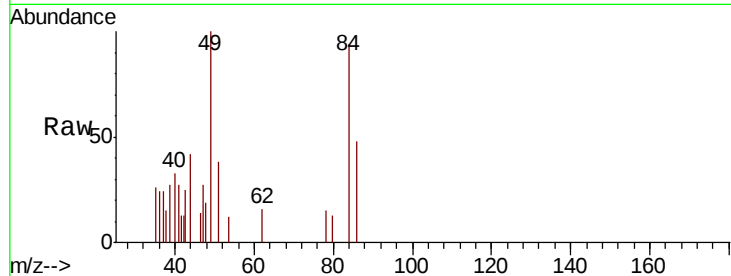
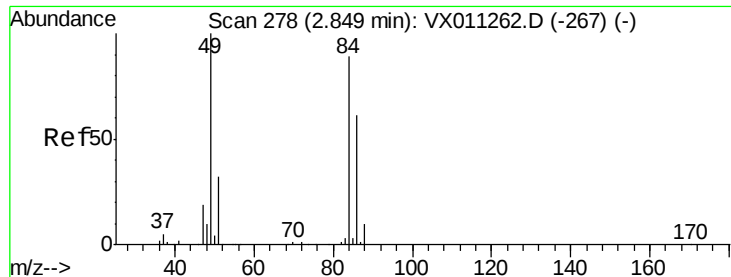
Tgt Ion: 43 Resp: 4427

Ion Ratio Lower Upper

43 100

58 34.3 27.4 41.0

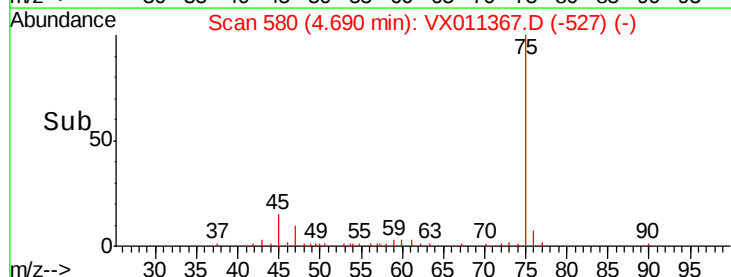
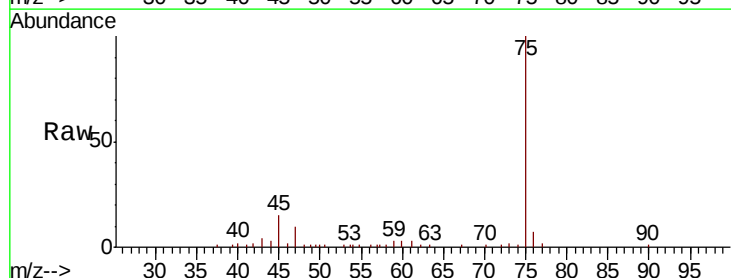
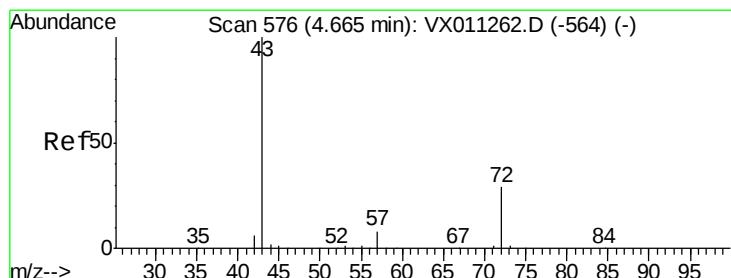
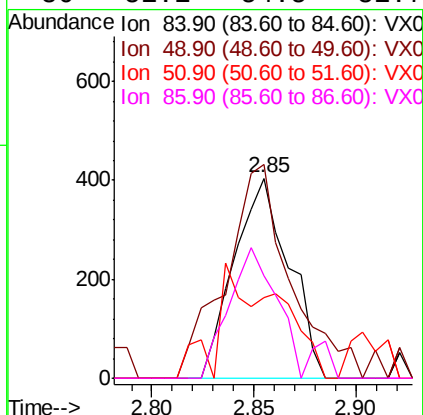




#20
Methylene Chloride
Concen: 0.432 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011367.D
Acq: 07 Aug 2019 16:54

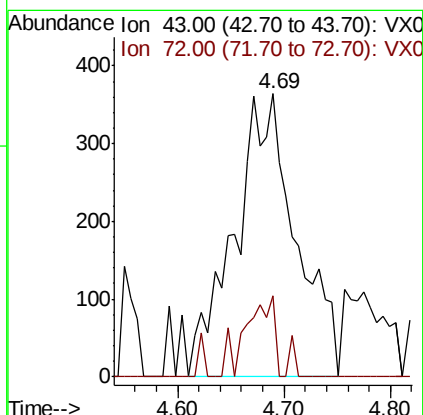
Instrument :
MSVOA_X
ClientSampleId :
FB_080619

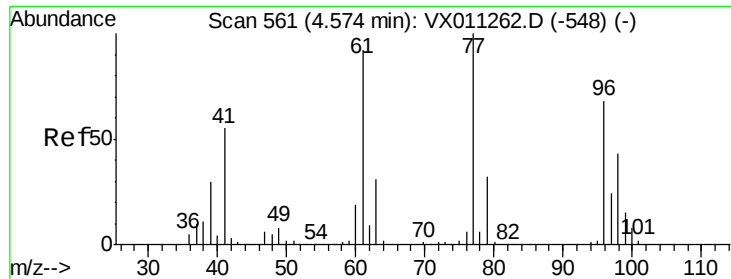
Tgt Ion:	84	Resp:	757
Ion	Ratio	Lower	Upper
84	100		
49	93.3	89.3	133.9
51	40.2	28.3	42.5
86	51.1	54.5	81.7#



#25
2-Butanone
Concen: 1.290 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX011367.D
Acq: 07 Aug 2019 16:54

Tgt Ion:	43	Resp:	1467
Ion	Ratio	Lower	Upper
43	100		
72	28.6	23.2	34.8





#26

2,2-Dichloropropane

Concen: 0.806 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.11 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

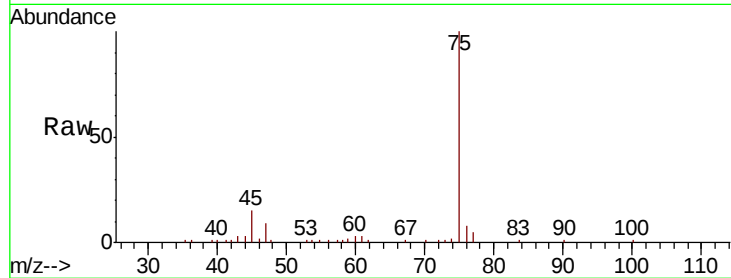
FB_080619

Tgt Ion: 77 Resp: 1642

Ion Ratio Lower Upper

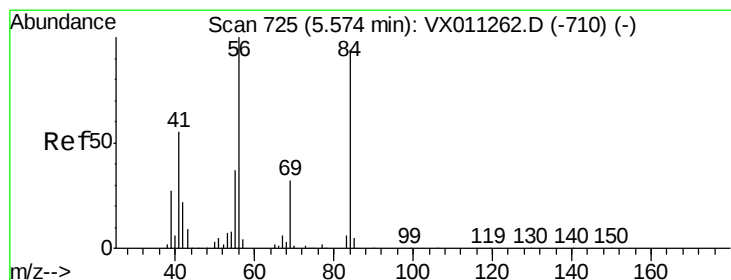
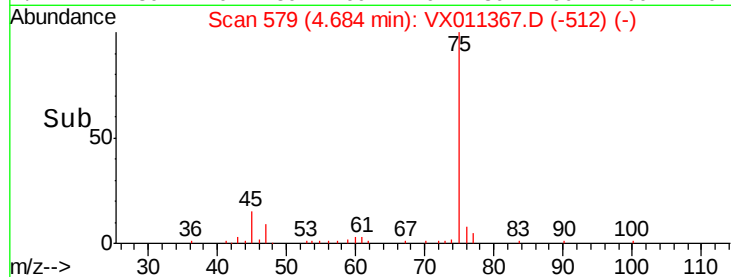
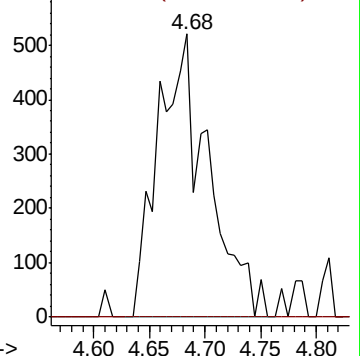
77 100

97 0.0 12.8 38.4#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 1.461 ug/l

RT: 5.64 min Scan# 736

Delta R.T. 0.07 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

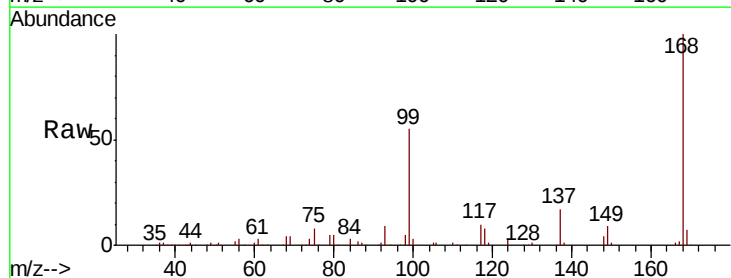
Tgt Ion: 56 Resp: 3161

Ion Ratio Lower Upper

56 100

69 151.4 25.5 38.3#

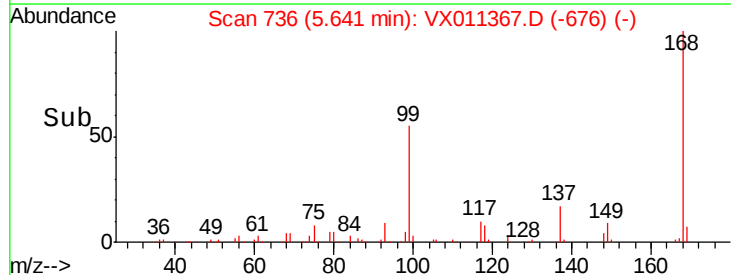
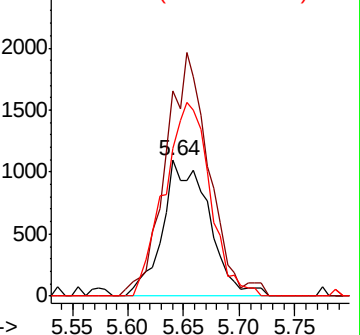
84 109.0 75.0 112.4

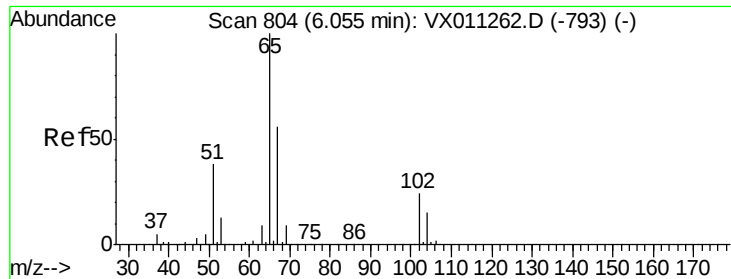


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 57.082 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

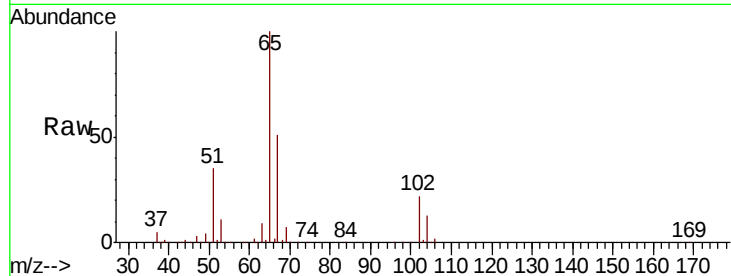
FB_080619

Tgt Ion: 65 Resp: 95892

Ion Ratio Lower Upper

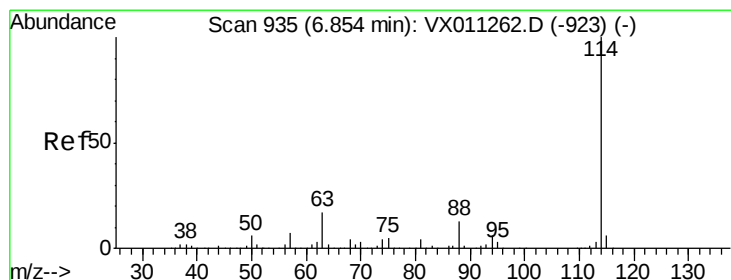
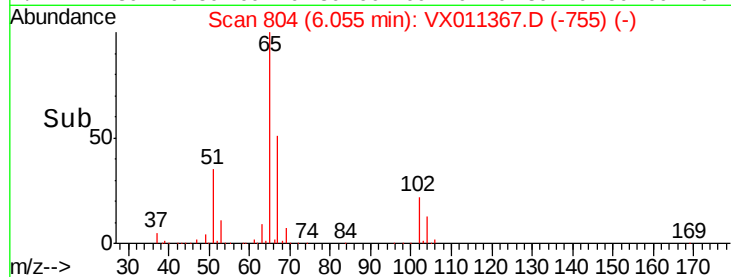
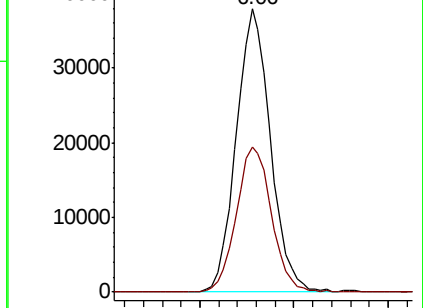
65 100

67 53.0 0.0 110.6



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. 0.00 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

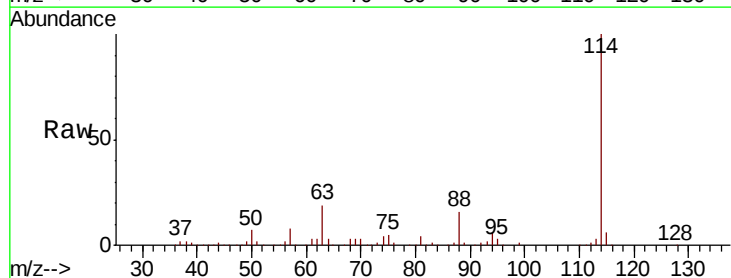
Tgt Ion: 114 Resp: 268368

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.0

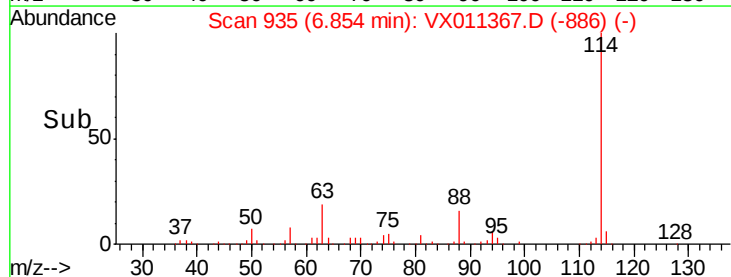
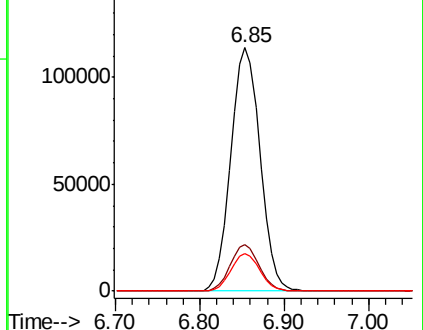
88 15.6 0.0 26.4

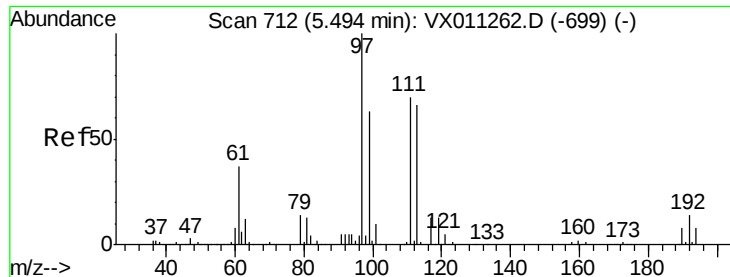


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.988 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

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FB_080619

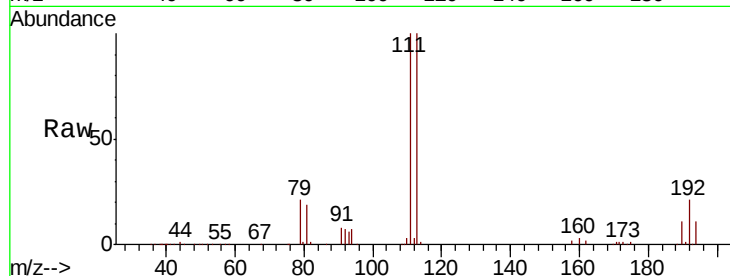
Tgt Ion:113 Resp: 87585

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

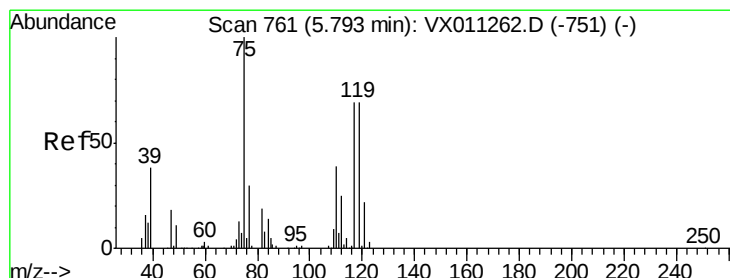
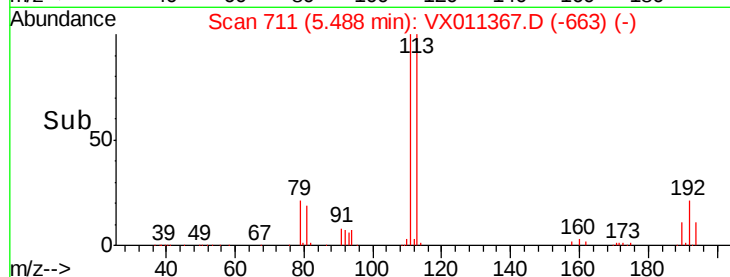
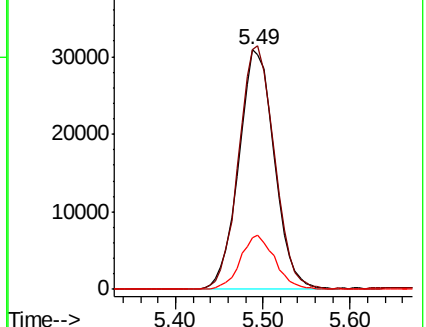
192 21.9 17.8 26.8



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: 5.040 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

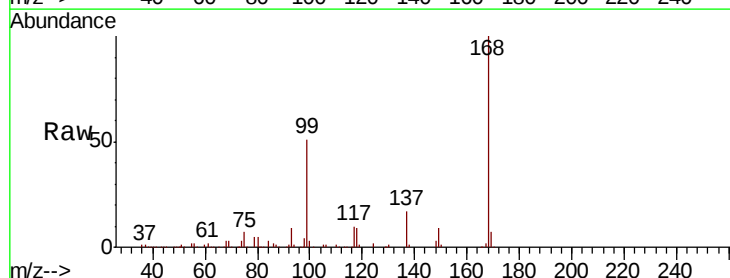
Tgt Ion: 75 Resp: 11809

Ion Ratio Lower Upper

75 100

110 10.6 20.0 59.9#

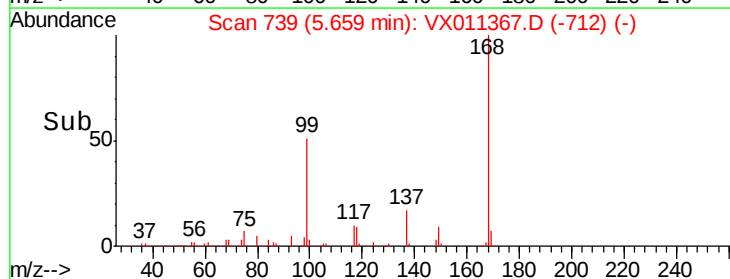
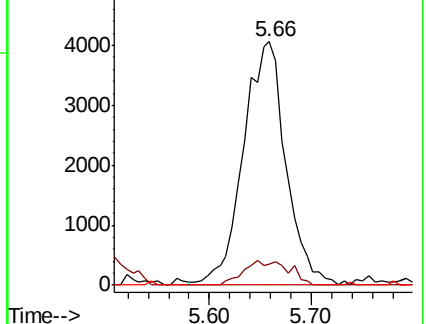
77 0.0 24.8 37.2#

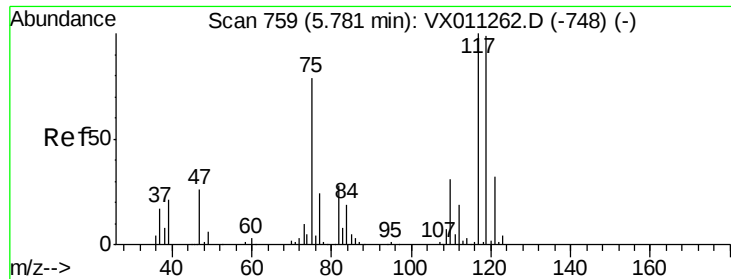


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

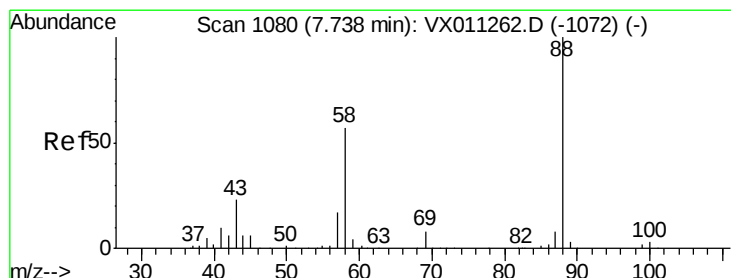
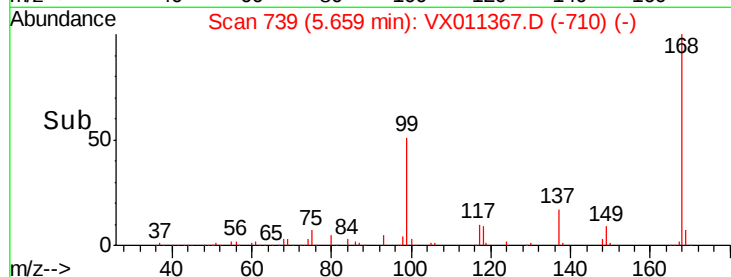
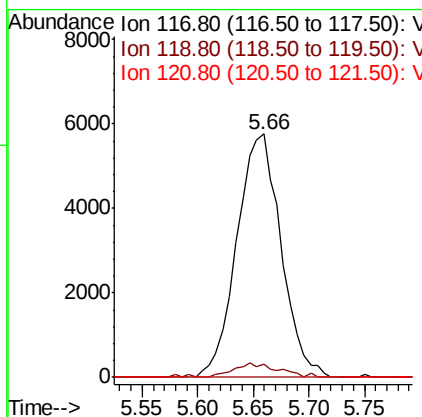
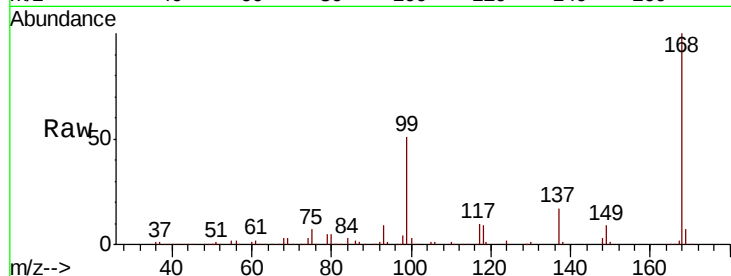




#38
Carbon Tetrachloride
Concen: 6.746 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX011367.D
Acq: 07 Aug 2019 16:54

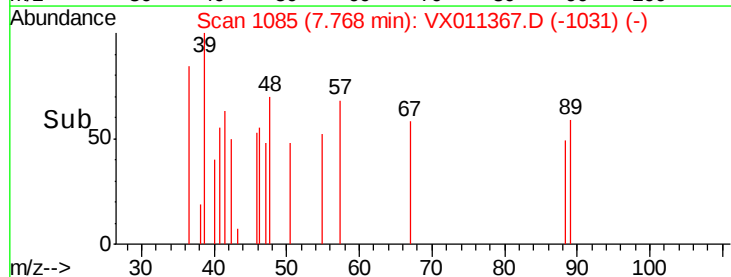
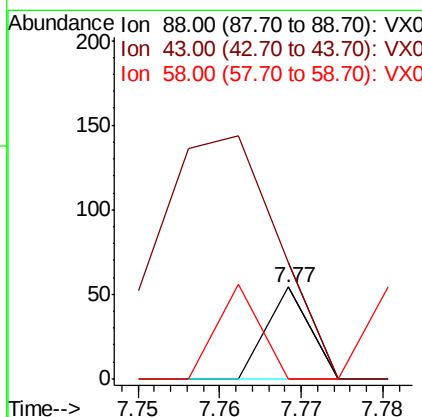
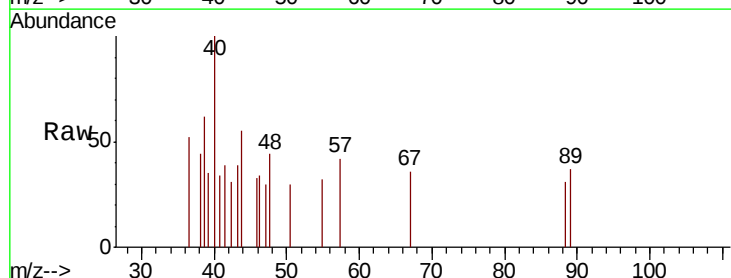
Instrument :
MSVOA_X
ClientSampled :
FB_080619

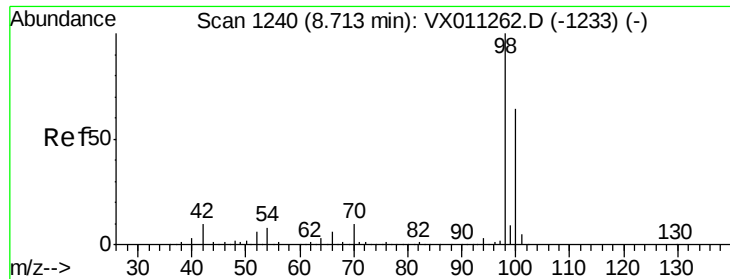
Tgt Ion:117 Resp: 15902
Ion Ratio Lower Upper
117 100
119 5.3 79.0 118.4#
121 0.0 25.9 38.9#



#49
1,4-Dioxane
Concen: 0.390 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX011367.D
Acq: 07 Aug 2019 16:54

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 850.0 22.2 33.2#
58 100.0 47.8 71.8#





#50

Toluene-d8

Concen: 50.234 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

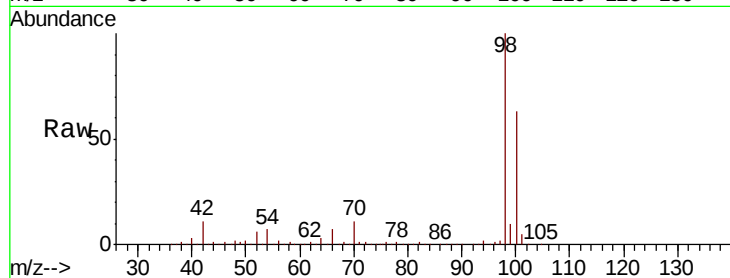
FB_080619

Tgt Ion: 98 Resp: 332233

Ion Ratio Lower Upper

98 100

100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

150000

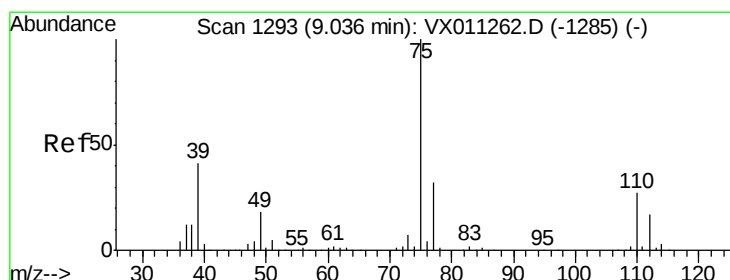
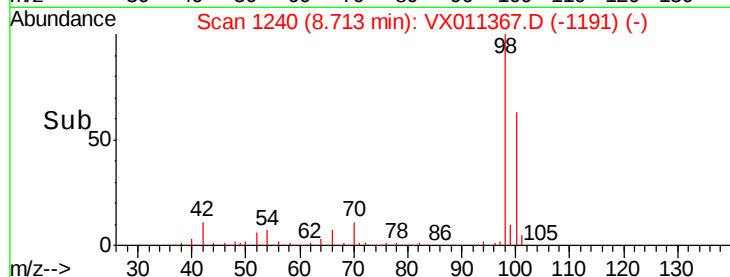
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#53

t-1,3-Dichloropropene

Concen: 2.846 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX011367.D

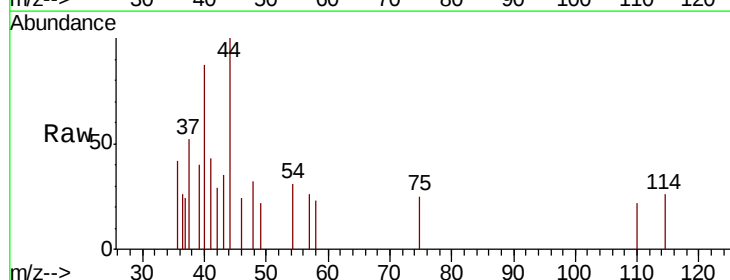
Acq: 07 Aug 2019 16:54

Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.05

60

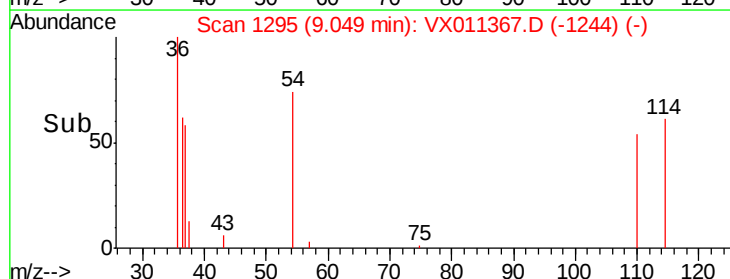
40

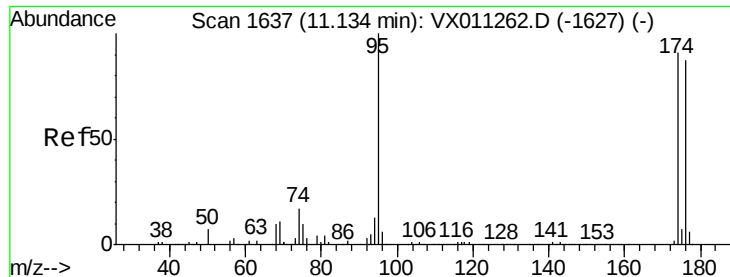
20

0

Time-->

9.03 9.04 9.05 9.06

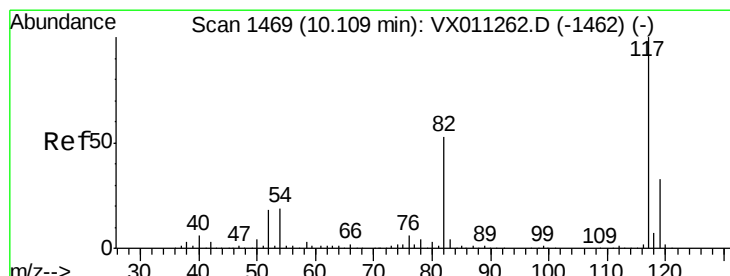
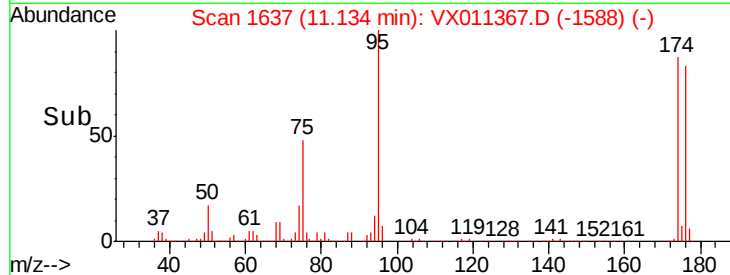
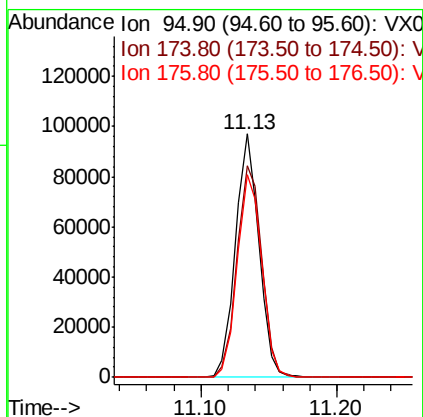
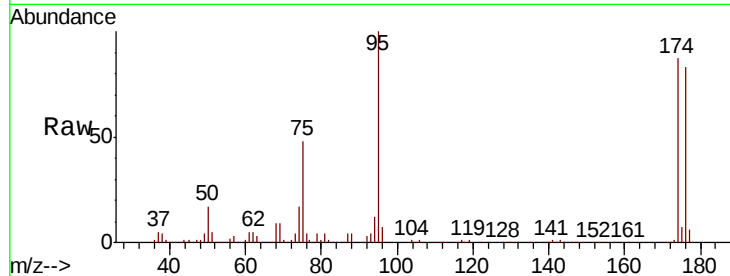




#62
4-Bromofluorobenzene
Concen: 49.316 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011367.D
Acq: 07 Aug 2019 16:54

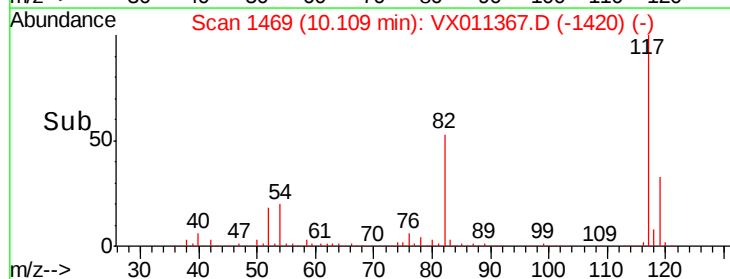
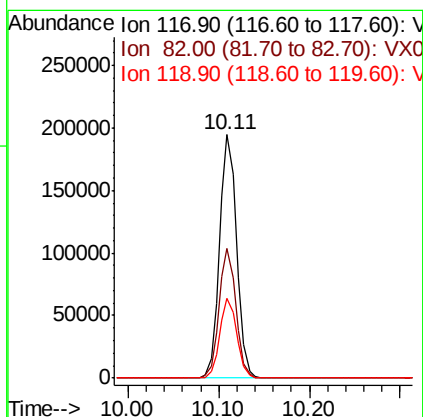
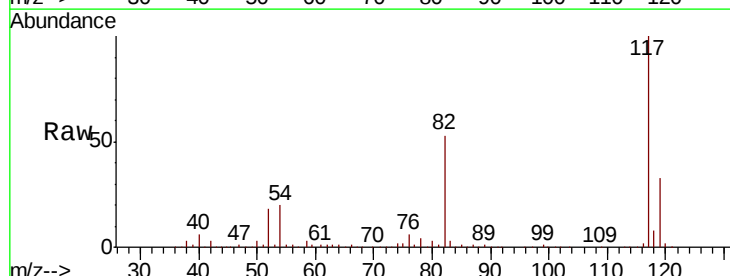
Instrument :
MSVOA_X
ClientSampleId :
FB_080619

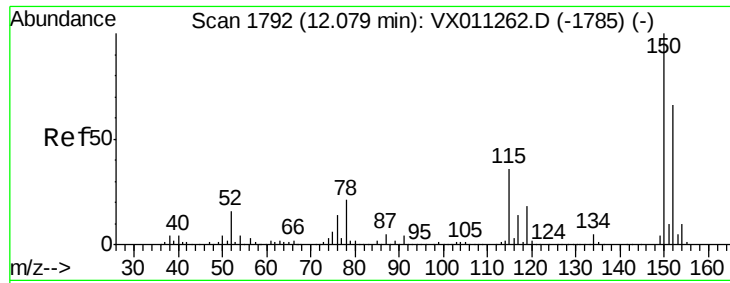
Tgt Ion: 95 Resp: 116449
Ion Ratio Lower Upper
95 100
174 92.4 0.0 191.2
176 87.6 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011367.D
Acq: 07 Aug 2019 16:54

Tgt Ion: 117 Resp: 255716
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.2
119 32.8 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

FB_080619

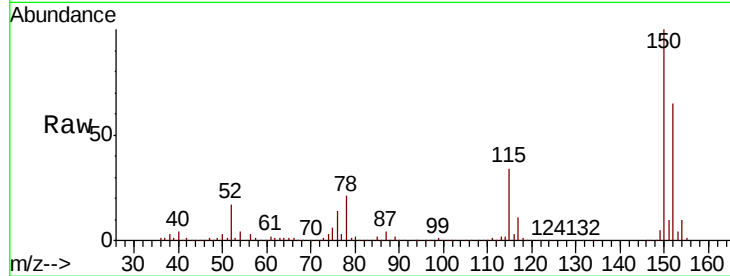
Tgt Ion:152 Resp: 118133

Ion Ratio Lower Upper

152 100

115 55.9 40.0 119.9

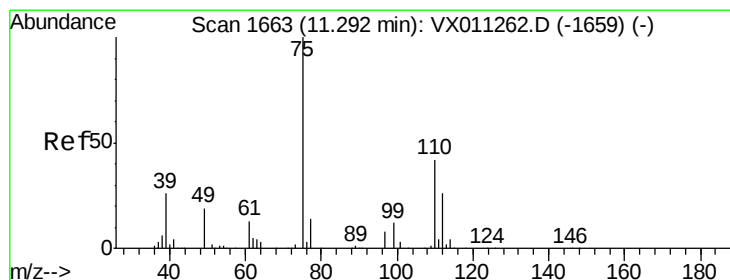
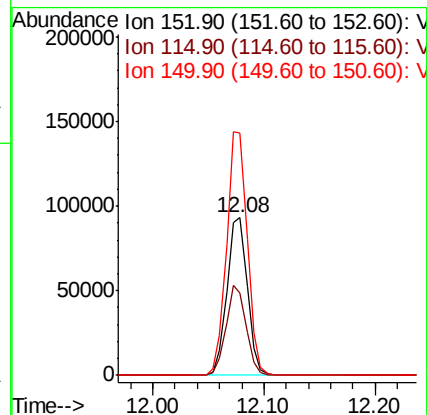
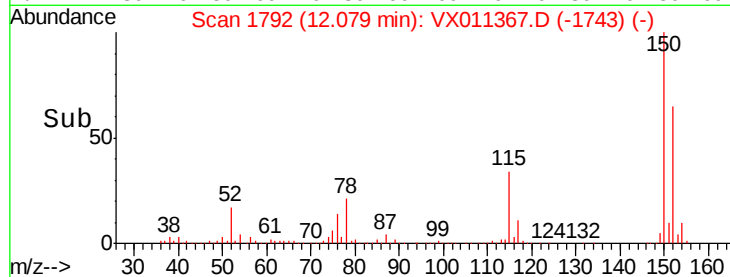
150 156.5 0.0 350.4



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: 27.117 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011367.D

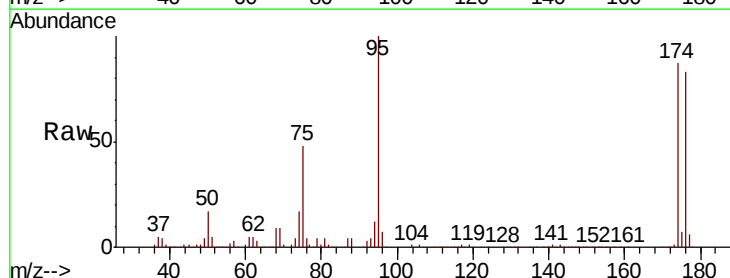
Acq: 07 Aug 2019 16:54

Tgt Ion: 75 Resp: 58338

Ion Ratio Lower Upper

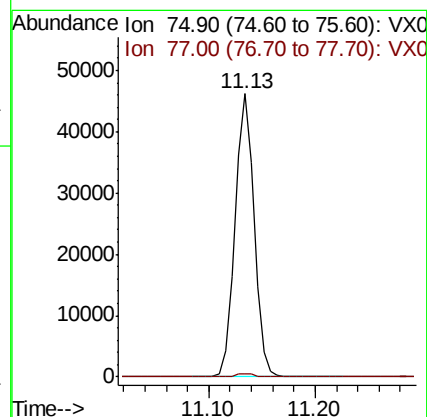
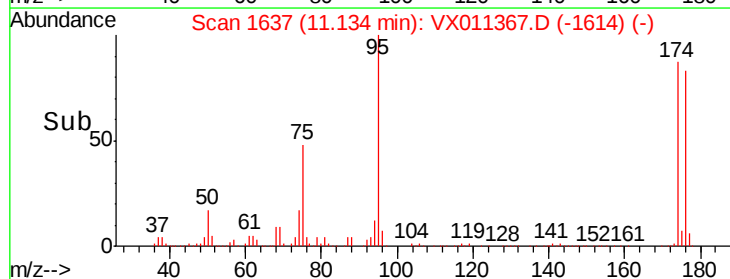
75 100

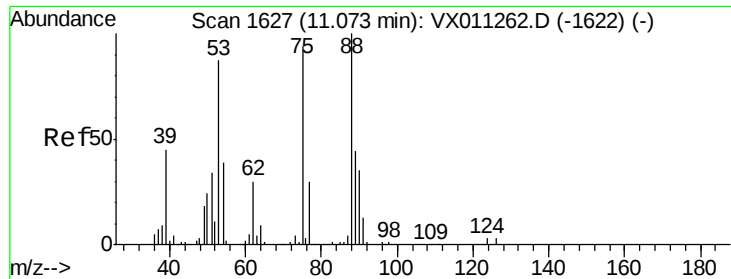
77 1.2 21.1 63.4#



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: 70.381 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011367.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

FB_080619

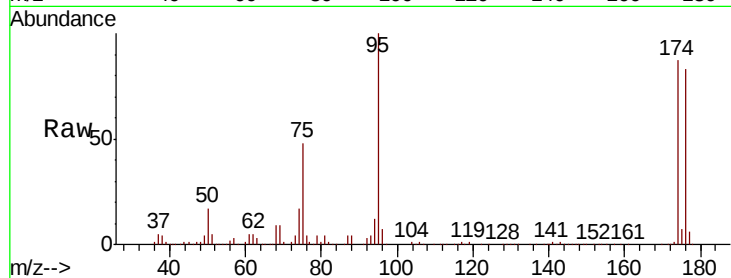
Tgt Ion: 75 Resp: 58338

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



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

