

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004458.D
 Acq On : 10 Sep 2018 19:28
 Operator : JC/MD
 Sample : J4776-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-02-090718-A

Quant Time: Sep 11 01:23:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	284970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	470682	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	419804	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	258754	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	204276	55.00	ug/l	0.00
Spiked Amount			Recovery	=	110.00%	
35) Dibromofluoromethane	5.50	113	182671	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
50) Toluene-d8	8.71	98	683900	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	11.14	95	240890	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	

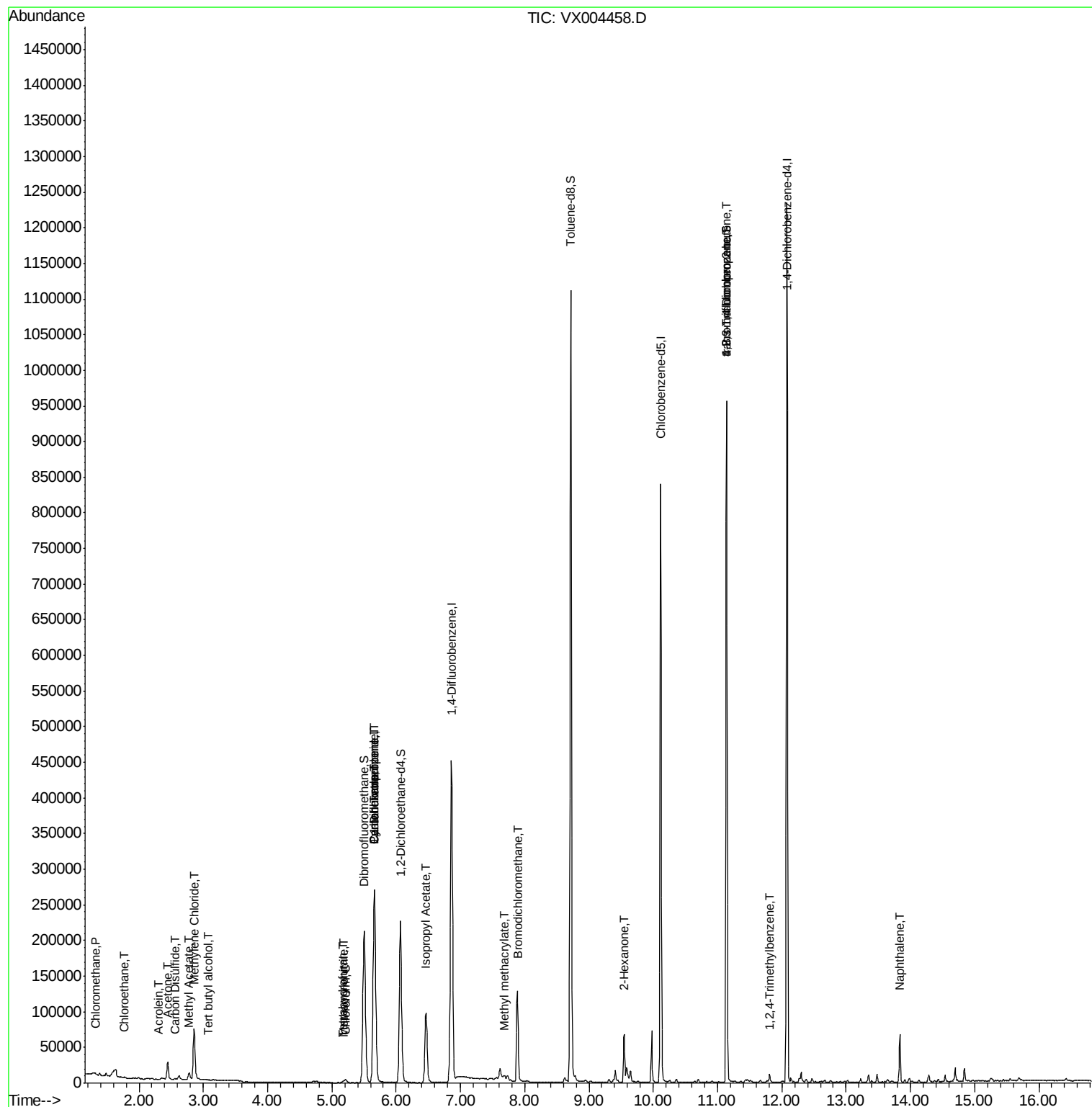
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	530	0.43	ug/l	100
5) Bromomethane	1.64	94	161	Below Cal	#	59
6) Chloroethane	1.78	64	174	1.03	ug/l	9
11) Tert butyl alcohol	3.08	59	323	0.41	ug/l	40
13) Acrolein	2.31	56	207	1.08	ug/l	16
16) Acetone	2.45	43	25429	8.99	ug/l	98
17) Carbon Disulfide	2.56	76	808	0.89	ug/l	98
18) Methyl Acetate	2.78	43	13180	2.39	ug/l	99
20) Methylene Chloride	2.85	84	34157	9.55	ug/l	98
25) 2-Butanone	4.70	43	3196	Below Cal		93
29) Tetrahydrofuran	5.17	42	1275	0.80	ug/l	86
30) Chloroform	5.21	83	4674	0.77	ug/l	97
31) Cyclohexane	5.65	56	4560	0.88	ug/l	1
36) 1,1-Dichloropropene	5.67	75	18441	3.48	ug/l	49
38) Carbon Tetrachloride	5.67	117	24727	4.97	ug/l	15
41) Methacrylonitrile	5.17	41	912	0.30	ug/l	48
43) Isopropyl Acetate	6.46	43	125980	15.75	ug/l	100
47) Bromodichloromethane	7.90	83	1383	0.28	ug/l	96
48) Methyl methacrylate	7.68	41	7135	1.67	ug/l	23
59) 2-Hexanone	9.55	43	7404	1.67	ug/l	58
76) 1,2,3-Trichloropropane	11.14	75	112077	21.30	ug/l	37
81) trans-1,4-Dichloro-2-buten	11.14	75	112077	69.10	ug/l	10
84) 1,2,4-Trimethylbenzene	11.81	105	4381	0.30	ug/l	95
94) Hexachlorobutadiene	13.79	225	161	Below Cal		85
95) Naphthalene	13.83	128	42270	2.50	ug/l	99

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

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QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampleId :

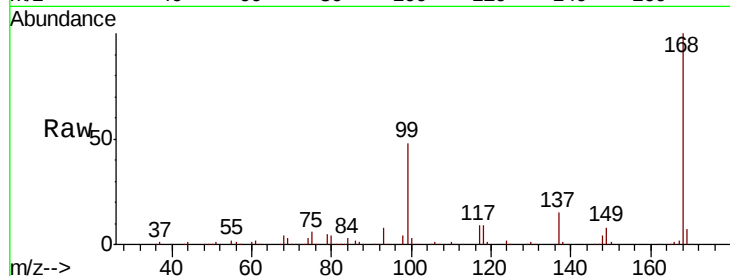
EO-02-090718-A

Tot Ion:168 Resp: 284970

Ion Ratio Lower Upper

168 100

99 48.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

60000

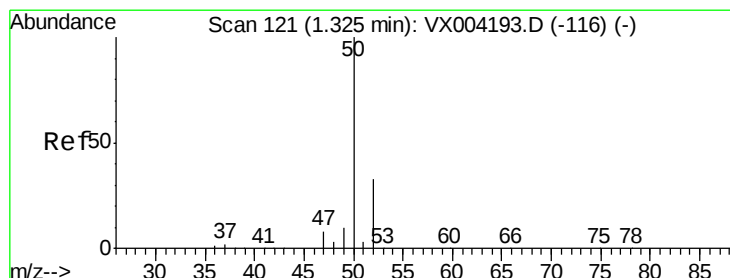
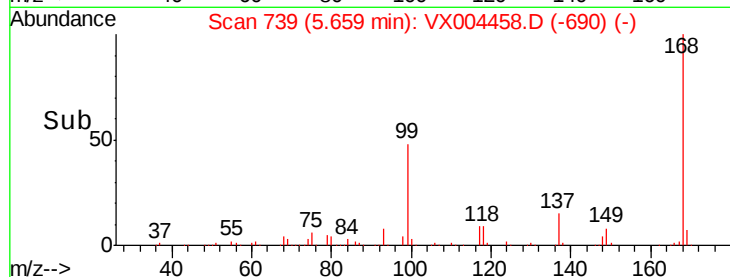
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.43 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004458.D

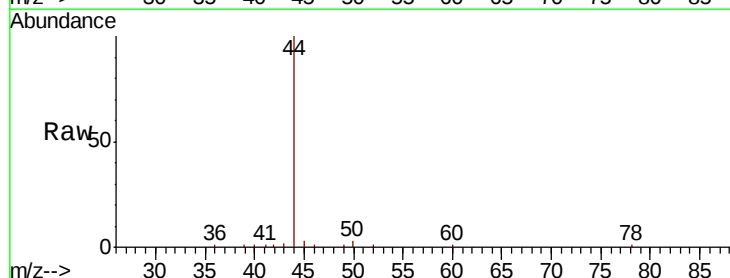
Acq: 10 Sep 2018 19:28

Tgt Ion: 50 Resp: 530

Ion Ratio Lower Upper

50 100

52 32.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

300

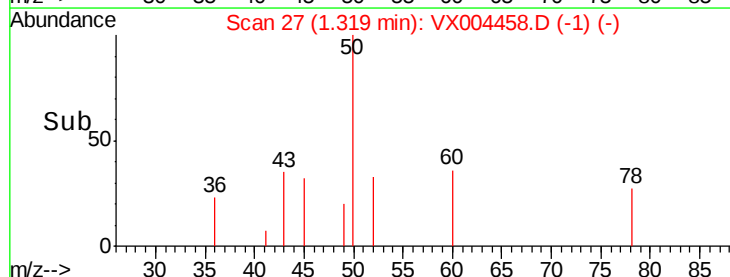
200

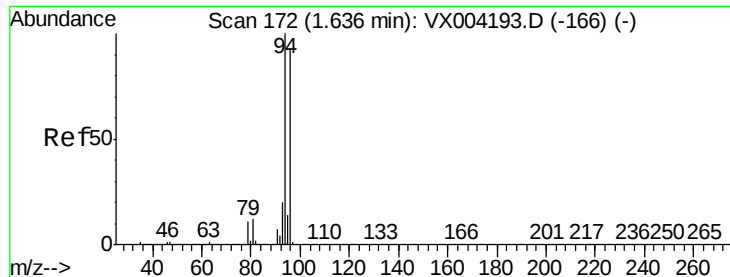
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampleId :

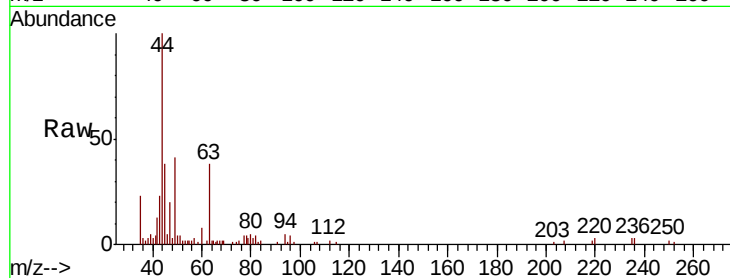
EO-02-090718-A

Tot Ion: 94 Resp: 161

Ion Ratio Lower Upper

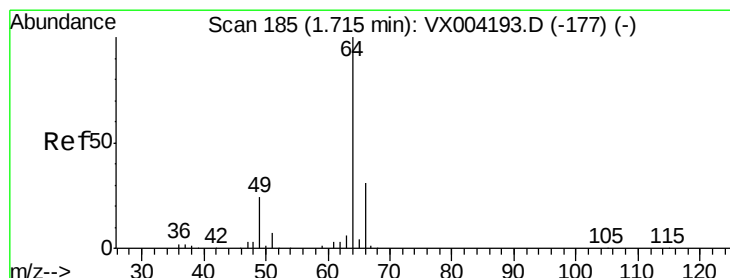
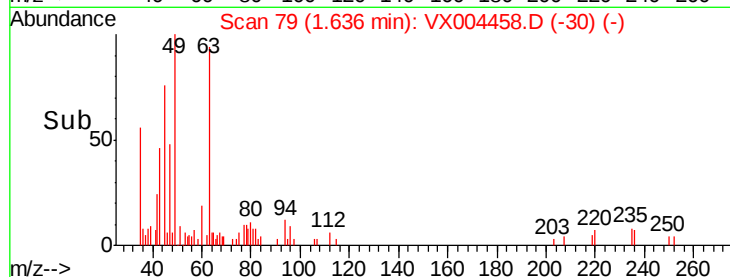
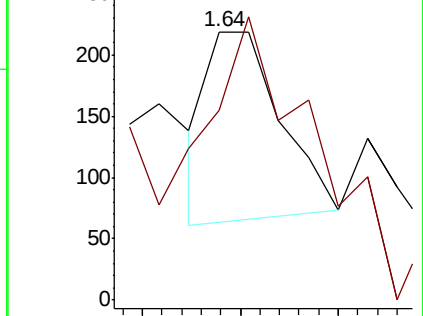
94 100

96 53.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.03 ug/l

RT: 1.78 min Scan# 103

Delta R.T. 0.07 min

Lab File: VX004458.D

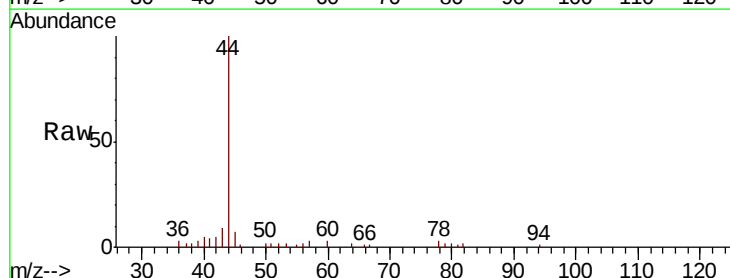
Acq: 10 Sep 2018 19:28

Tgt Ion: 64 Resp: 174

Ion Ratio Lower Upper

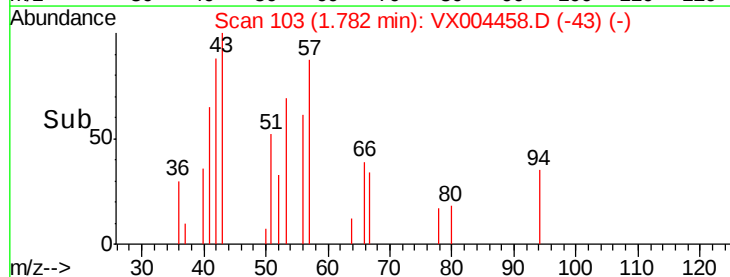
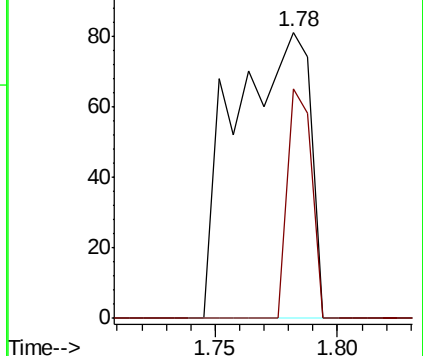
64 100

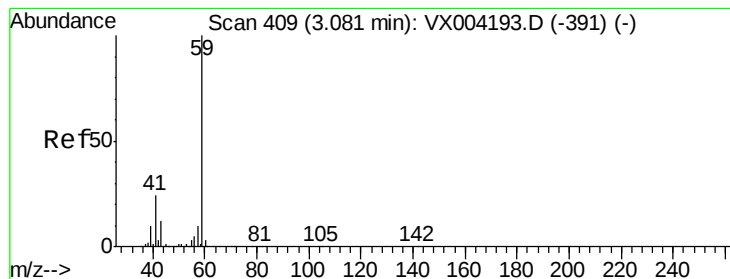
66 80.2 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



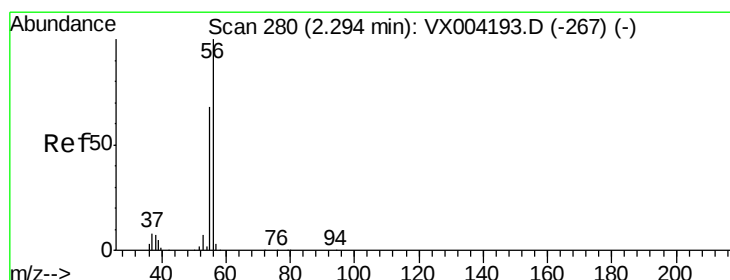
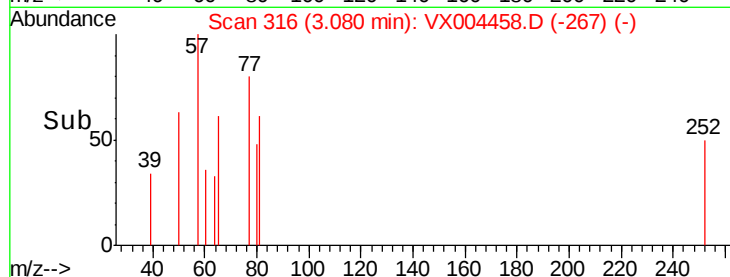
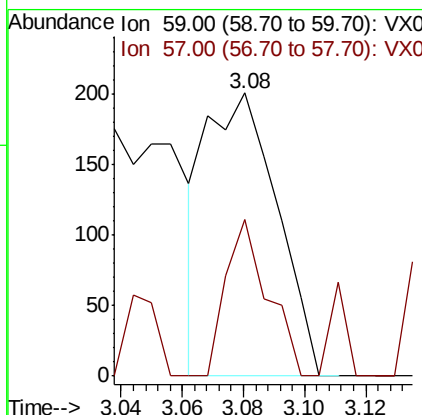
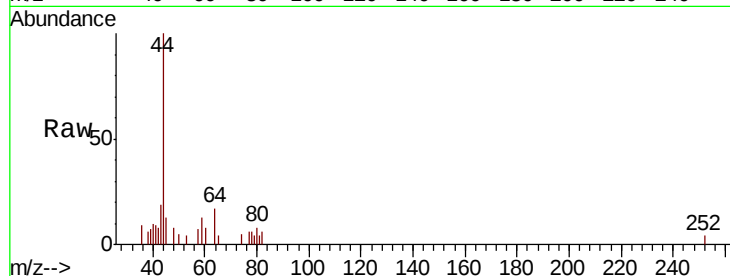


#11

Tert butyl alcohol
 Concen: 0.41 ug/l
 RT: 3.08 min Scan# 316
 Delta R.T. -0.00 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-02-090718-A

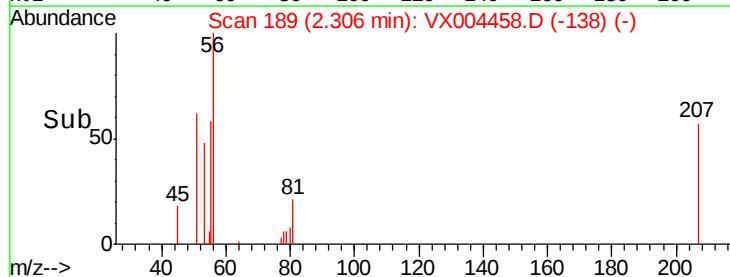
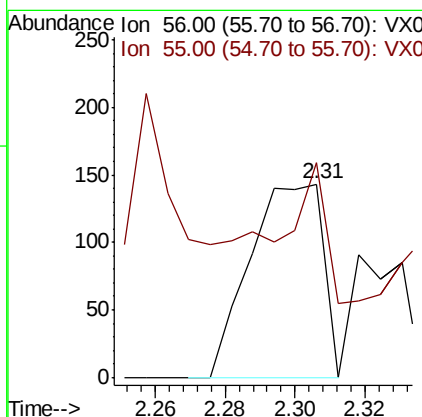
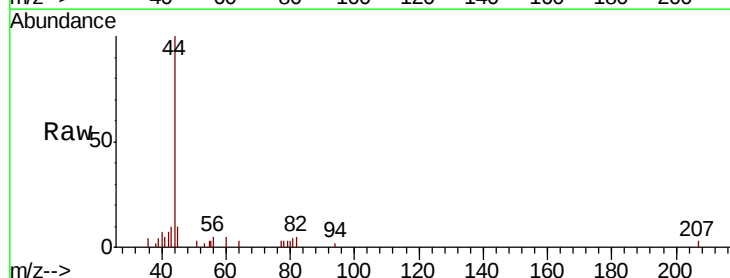
Tot Ion: 59 Resp: 323
 Ion Ratio Lower Upper
 59 100
 57 32.5 8.2 12.4#

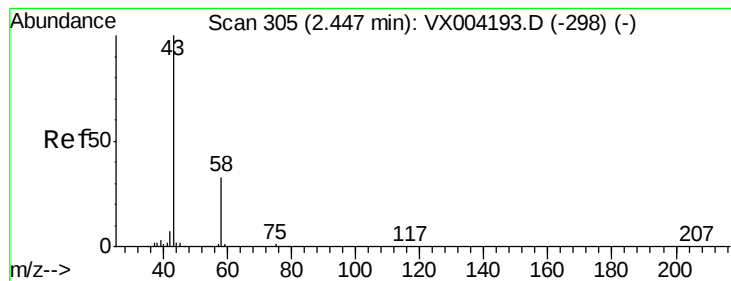


#13

Acrolein
 Concen: 1.08 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Tgt Ion: 56 Resp: 207
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#





#16

Acetone

Concen: 8.99 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampleId :

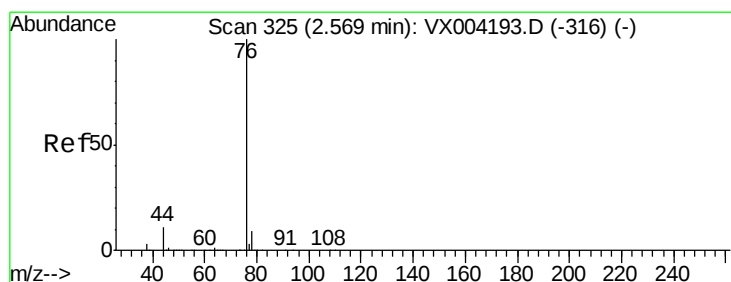
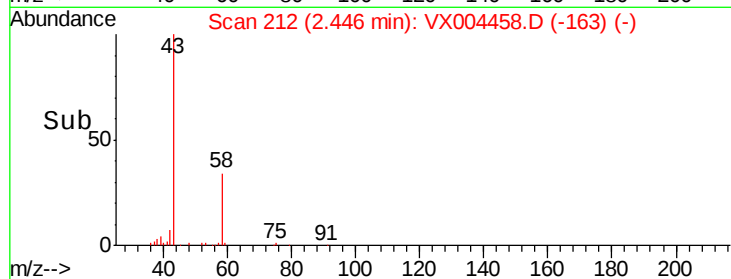
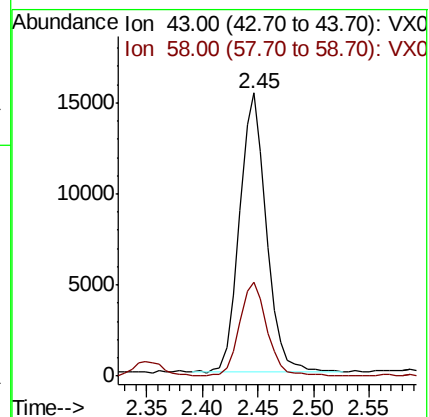
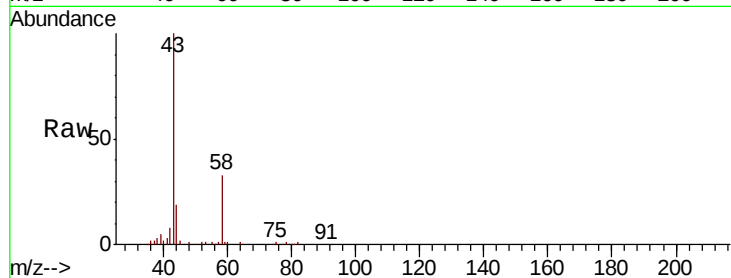
EO-02-090718-A

Tot Ion: 43 Resp: 25429

Ion Ratio Lower Upper

43 100

58 33.9 26.2 39.4



#17

Carbon Disulfide

Concen: 0.89 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX004458.D

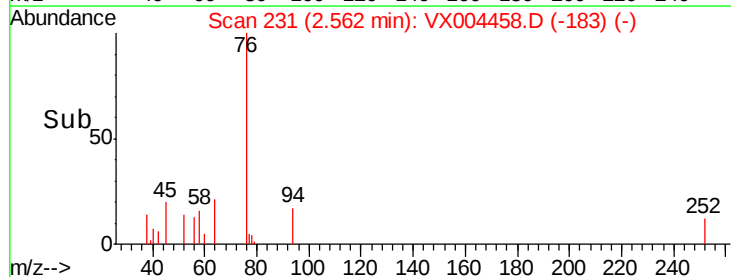
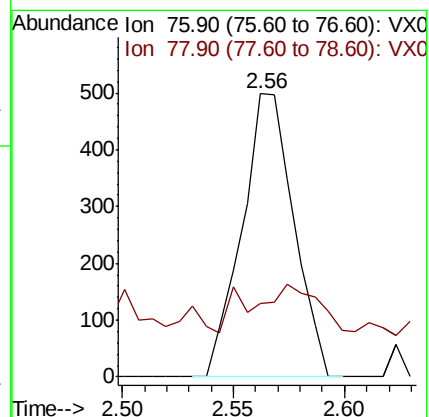
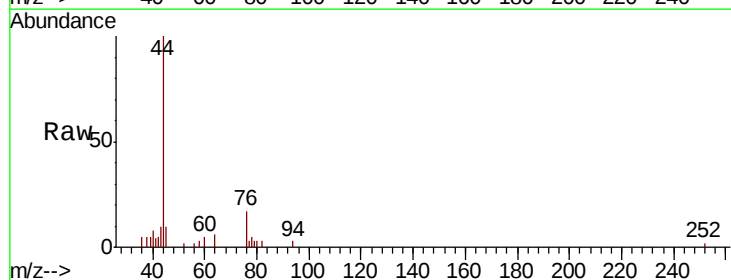
Acq: 10 Sep 2018 19:28

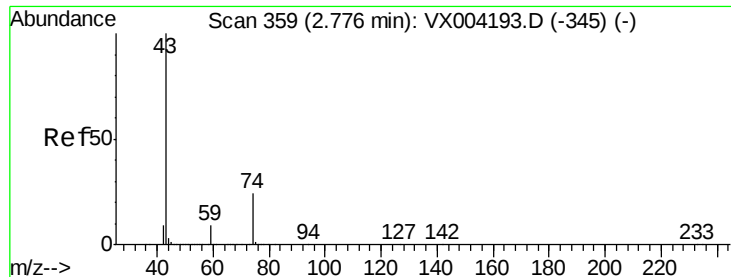
Tgt Ion: 76 Resp: 808

Ion Ratio Lower Upper

76 100

78 9.6 7.0 10.6

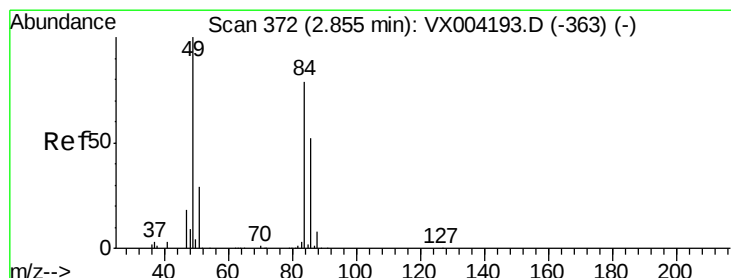
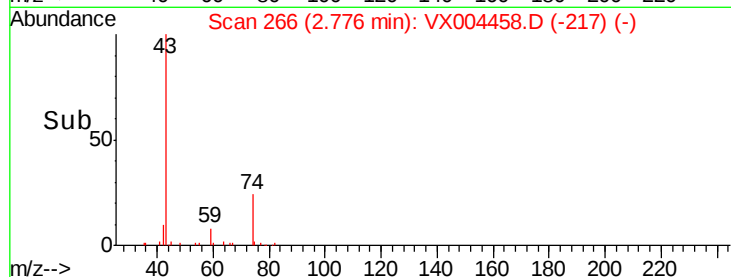
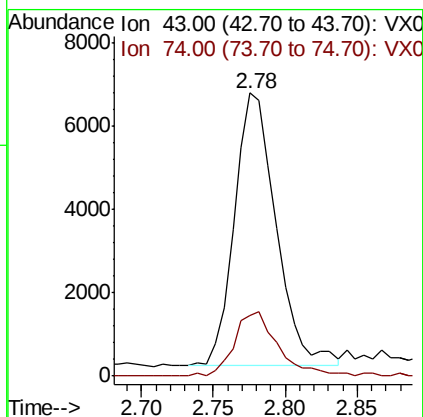
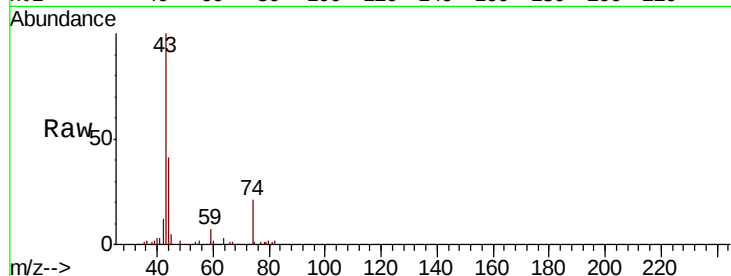




#18
Methvl Acetate
Concen: 2.39 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

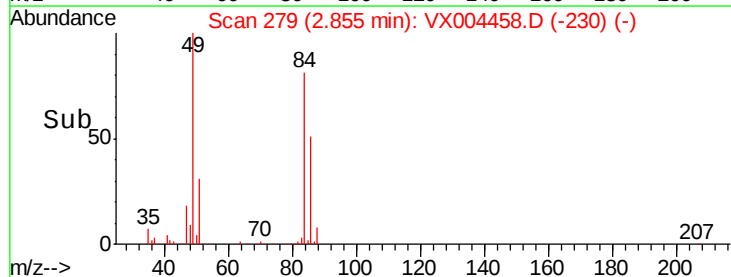
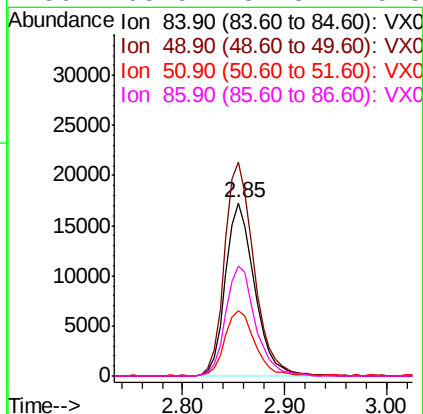
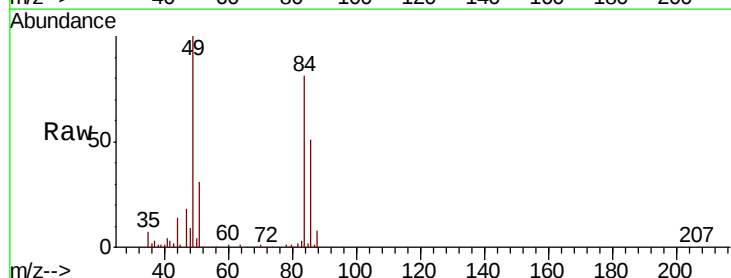
Instrument :
MSVOA_X
ClientSampleId :
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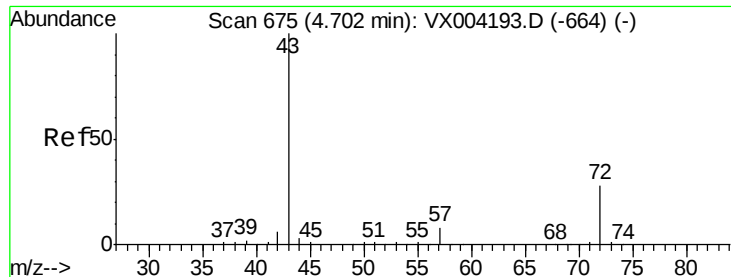
Tot Ion: 43 Resp: 13180
Ion Ratio Lower Upper
43 100
74 24.7 19.4 29.2



#20
Methylene Chloride
Concen: 9.55 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

Tgt Ion: 84 Resp: 34157
Ion Ratio Lower Upper
84 100
49 123.4 101.2 151.8
51 37.4 29.5 44.3
86 63.5 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampled :

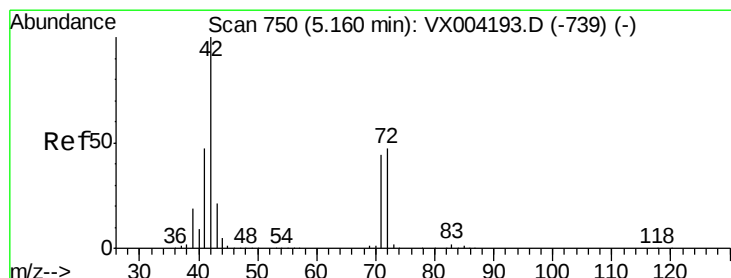
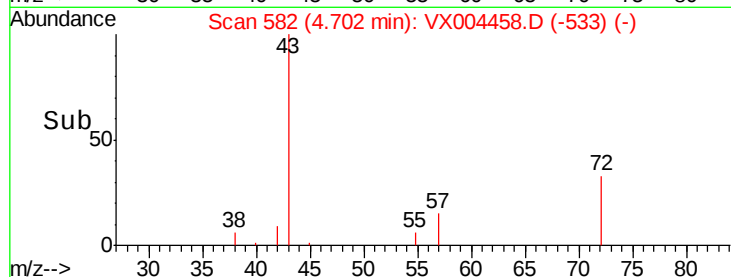
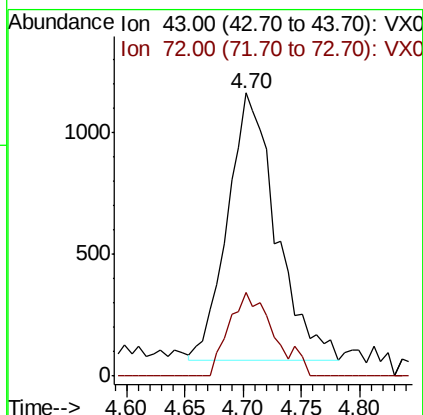
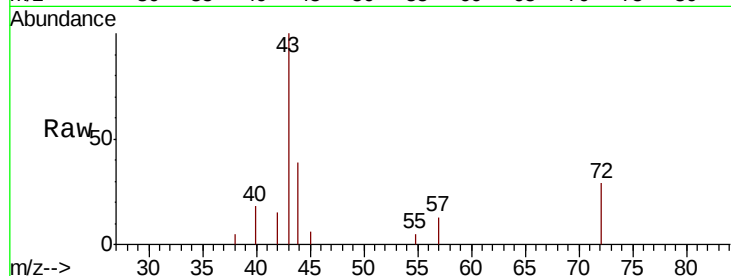
EO-02-090718-A

Tot Ion: 43 Resp: 3196

Ion Ratio Lower Upper

43 100

72 31.2 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.80 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

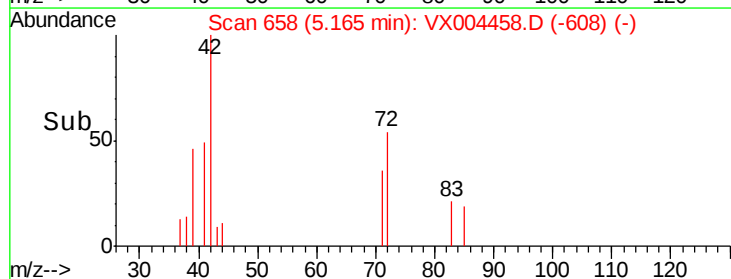
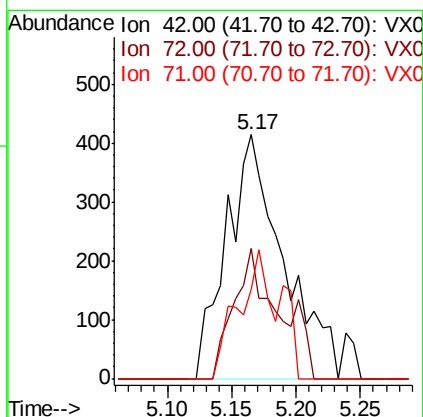
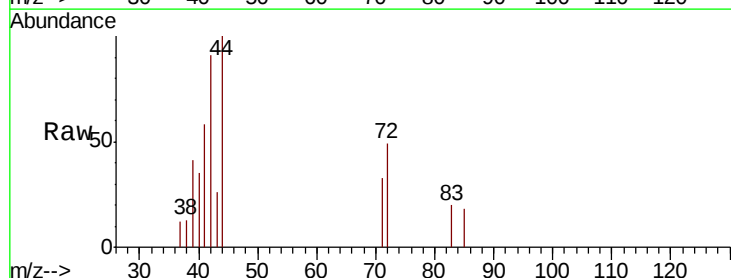
Tgt Ion: 42 Resp: 1275

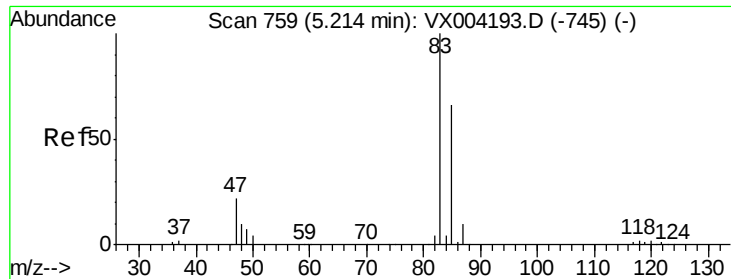
Ion Ratio Lower Upper

42 100

72 42.2 37.4 56.0

71 28.9 34.5 51.7#

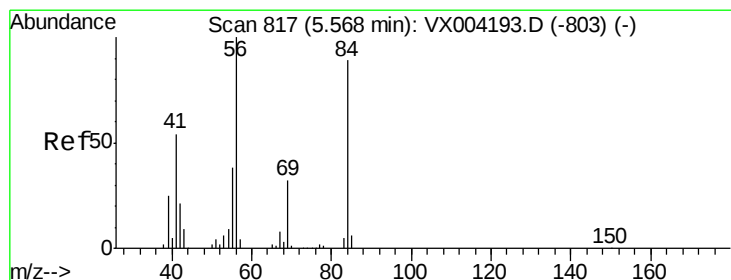
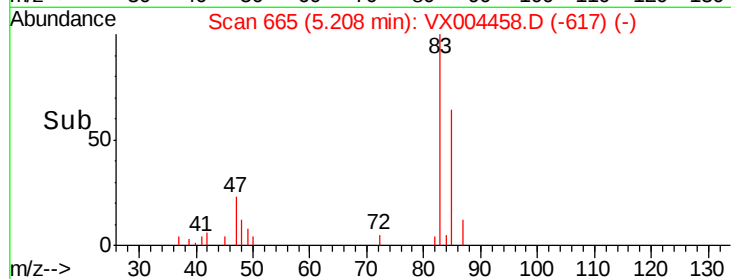
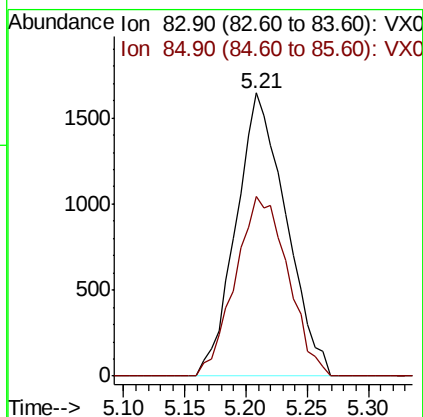
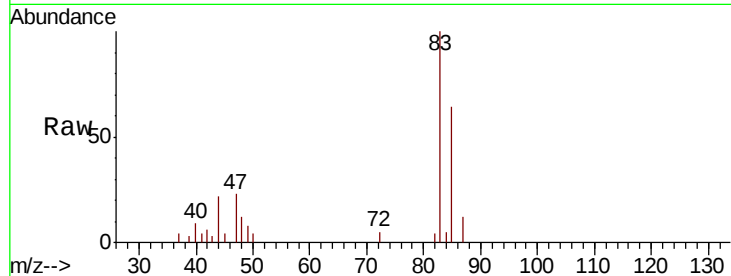




#30
Chloroform
Concen: 0.77 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

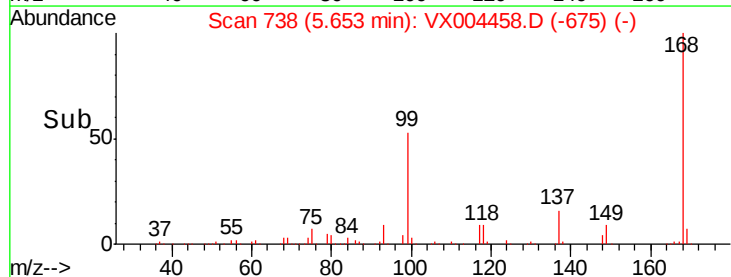
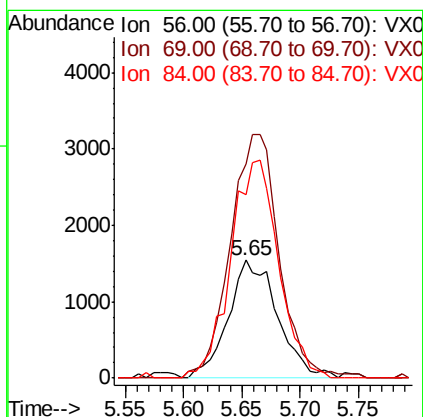
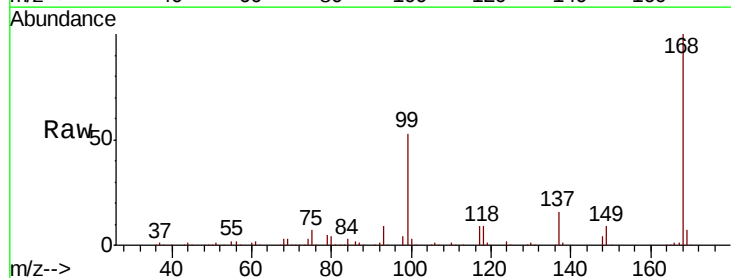
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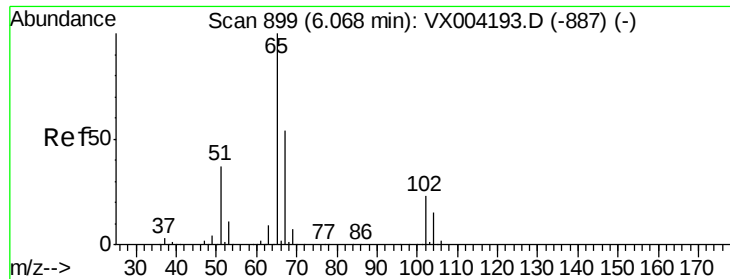
Tot Ion: 83 Resp: 4674
Ion Ratio Lower Upper
83 100
85 63.6 52.6 79.0



#31
Cyclohexane
Concen: 0.88 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.09 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

Tgt Ion: 56 Resp: 4560
Ion Ratio Lower Upper
56 100
69 177.6 25.4 38.2#
84 154.9 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 55.00 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampleId :

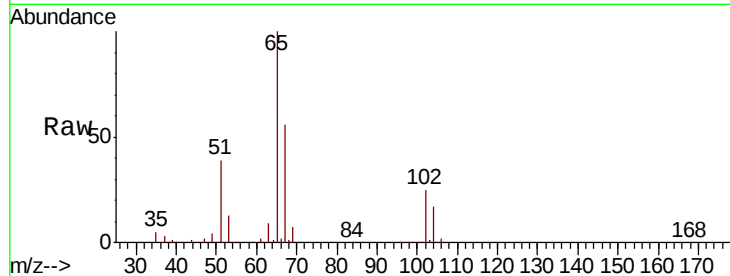
EO-02-090718-A

Tot Ion: 65 Resp: 204276

Ion Ratio Lower Upper

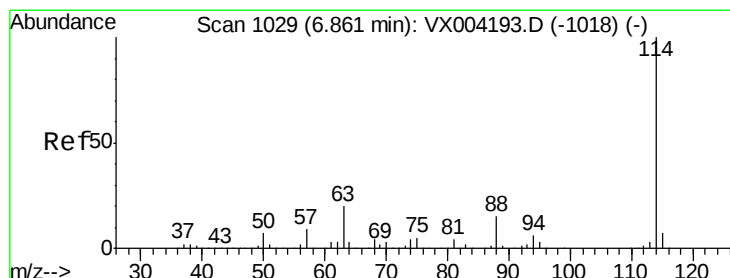
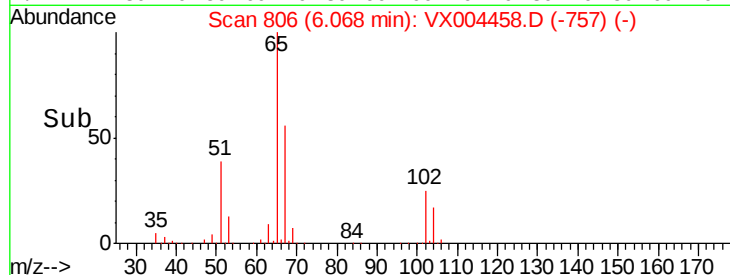
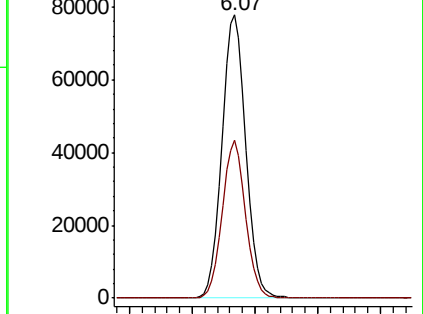
65 100

67 54.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

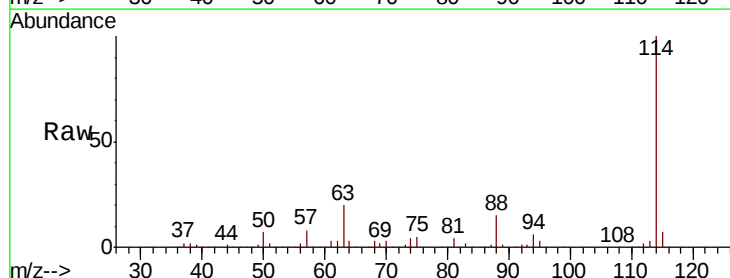
Tgt Ion: 114 Resp: 470682

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

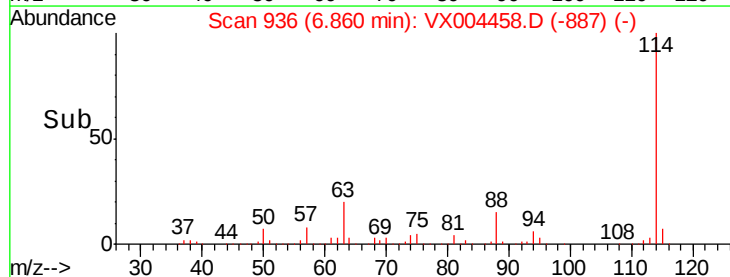
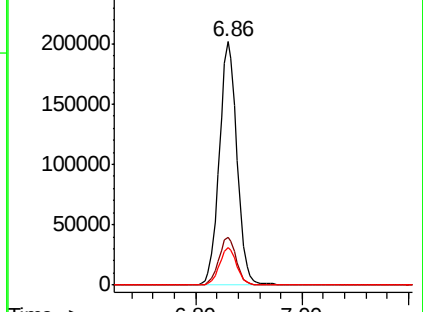
88 15.2 0.0 30.4

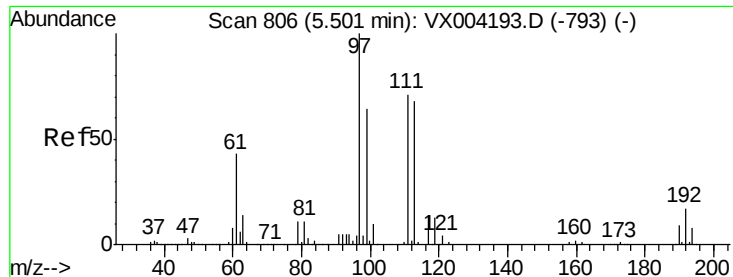


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

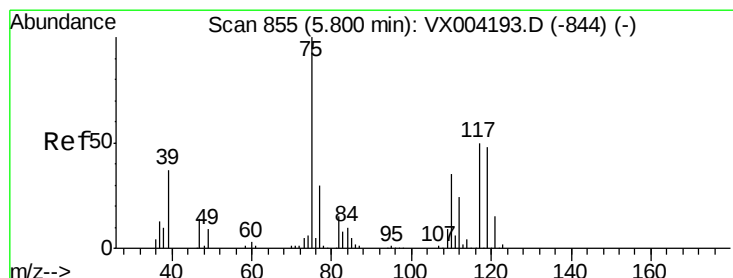
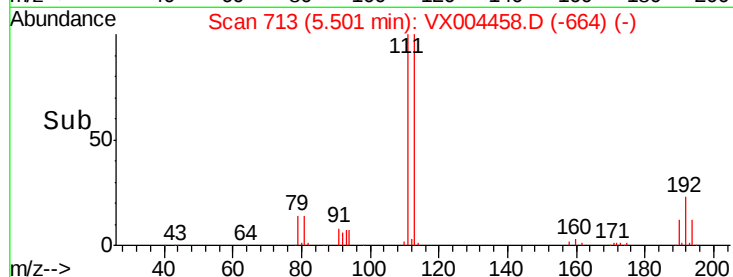
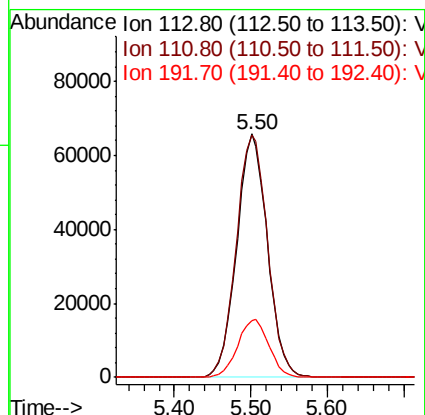
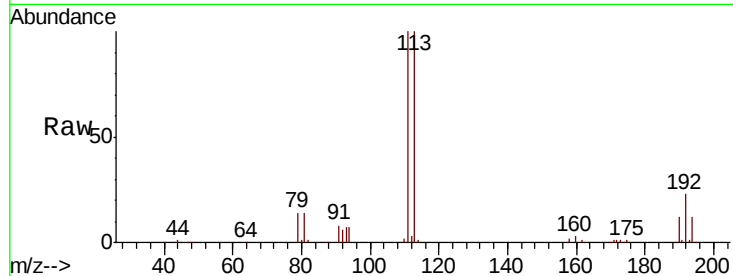




#35
 Dibromofluoromethane
 Concen: 52.17 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

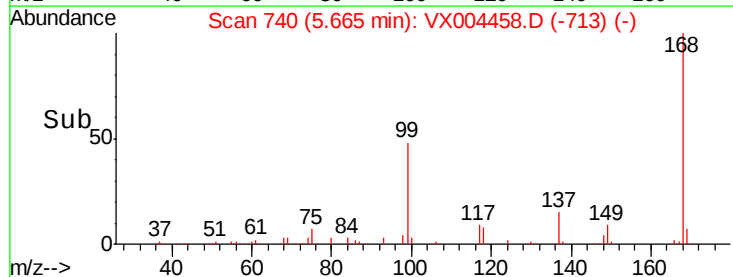
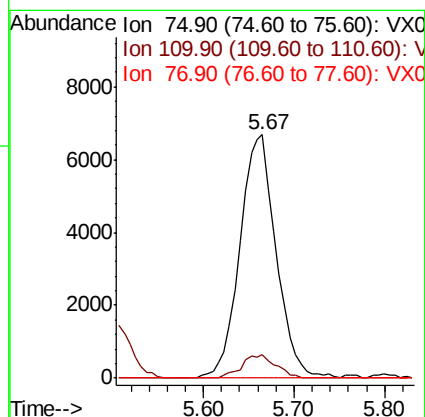
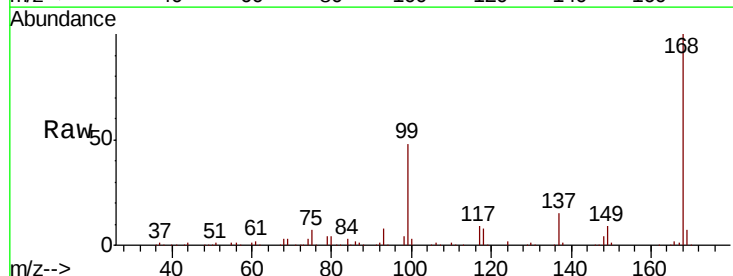
Instrument :
 MSVOA_X
 ClientSampleId :
 EO-02-090718-A

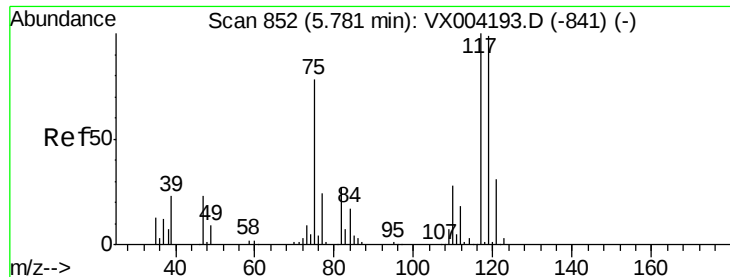
Tot Ion:113 Resp: 182671
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.4 123.6
 192 24.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.48 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Tgt Ion: 75 Resp: 18441
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.97 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampleId :

EO-02-090718-A

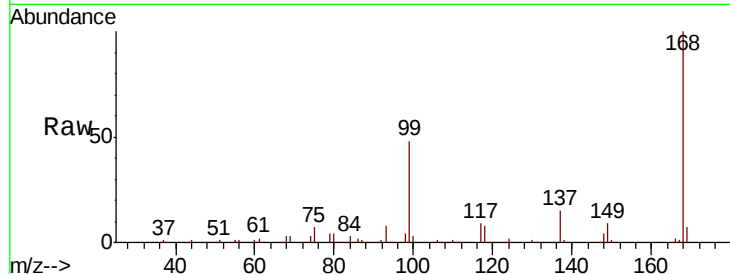
Tot Ion:117 Resp: 24727

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

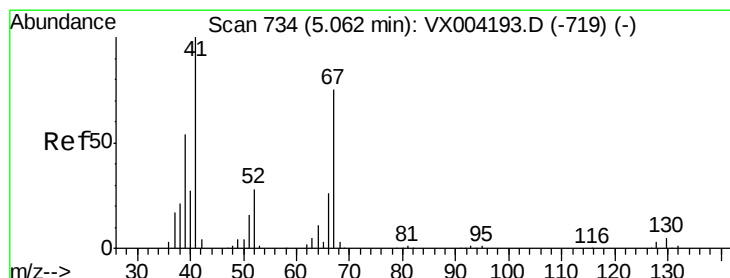
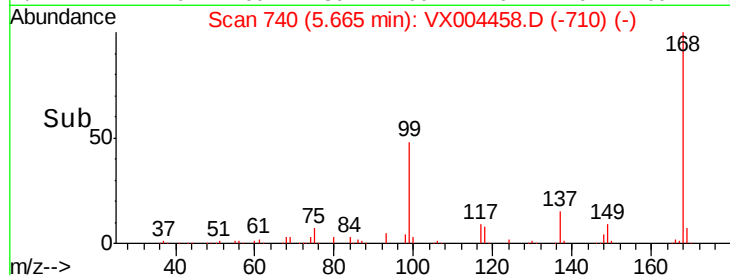
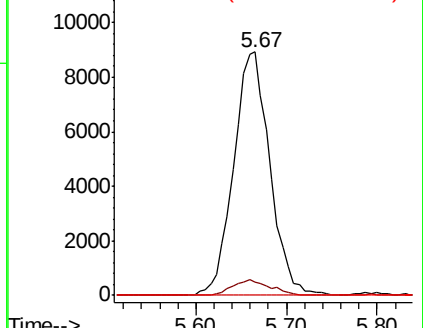
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 0.30 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.11 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Tgt Ion: 41 Resp: 912

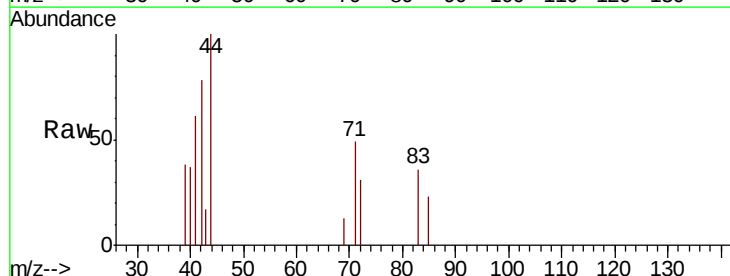
Ion Ratio Lower Upper

41 100

39 52.0 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

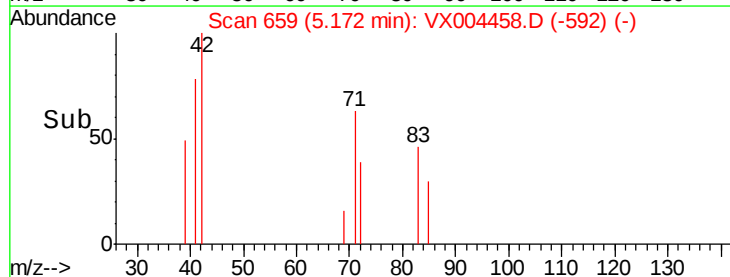
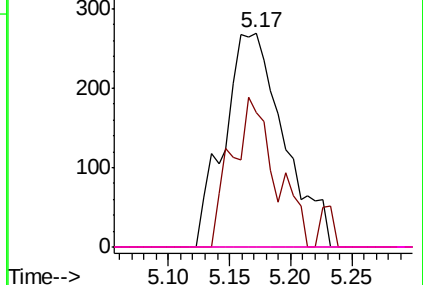


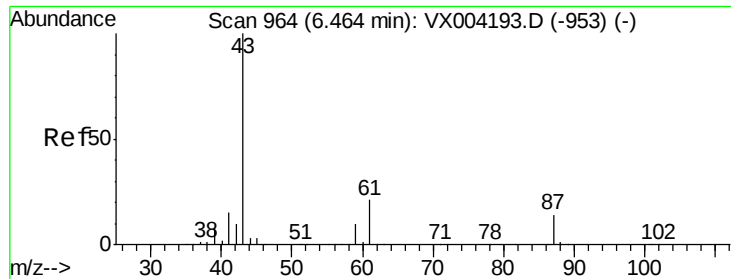
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



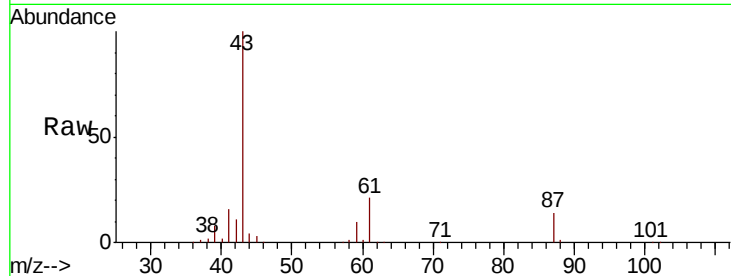


#43

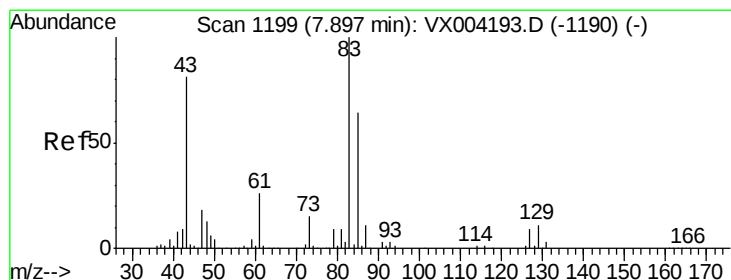
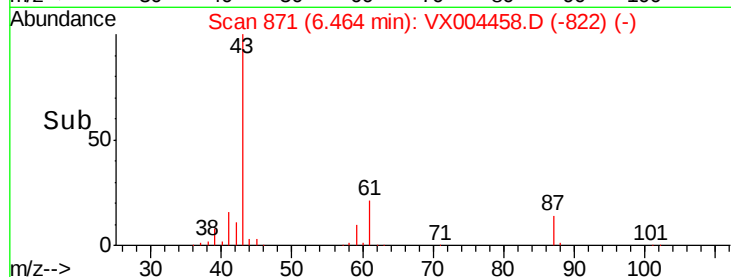
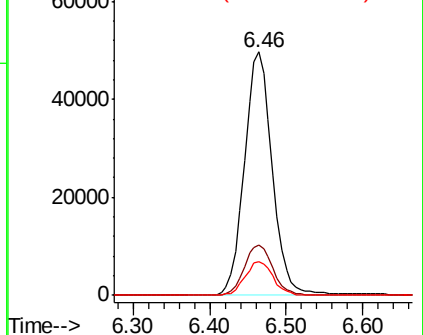
Isopropyl Acetate
 Concen: 15.75 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-02-090718-A

Tot Ion	43	Resp	125980
Ion Ratio	Lower	Upper	
43	100		
61	21.3	17.0	25.4
87	14.1	11.4	17.2



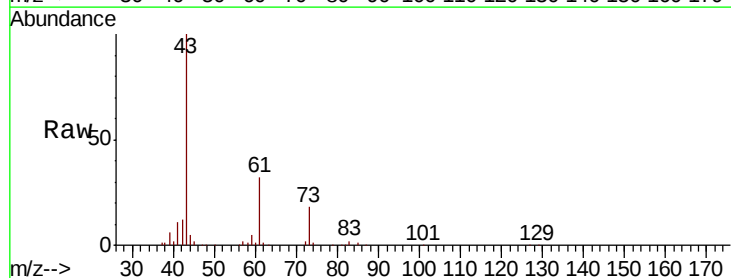
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



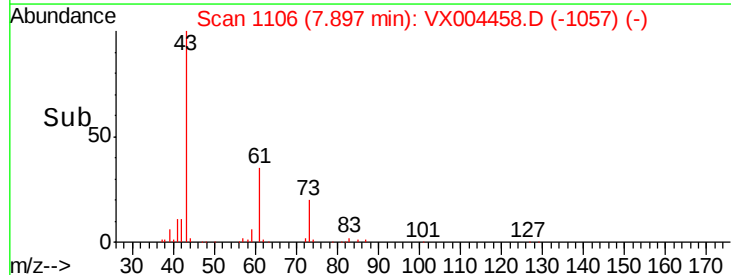
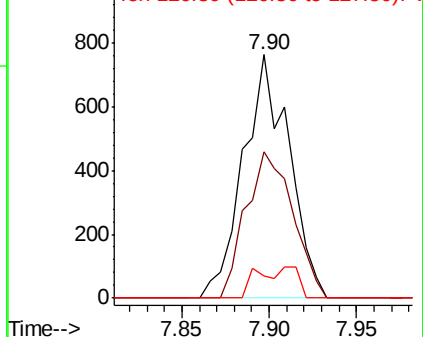
#47

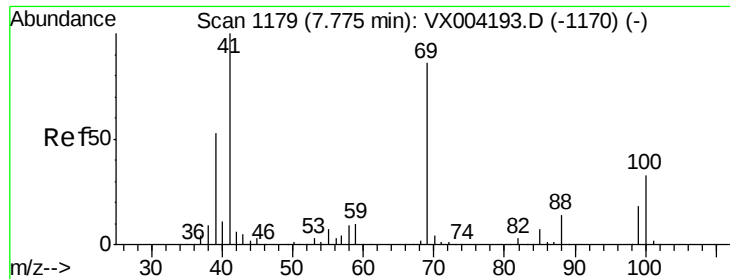
Bromodichloromethane
 Concen: 0.28 ug/l
 RT: 7.90 min Scan# 1106
 Delta R.T. -0.00 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Tgt Ion	83	Resp	1383
Ion Ratio	Lower	Upper	
83	100		
85	60.3	50.9	76.3
127	9.3	7.3	10.9



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 126.80 (126.50 to 127.50): V

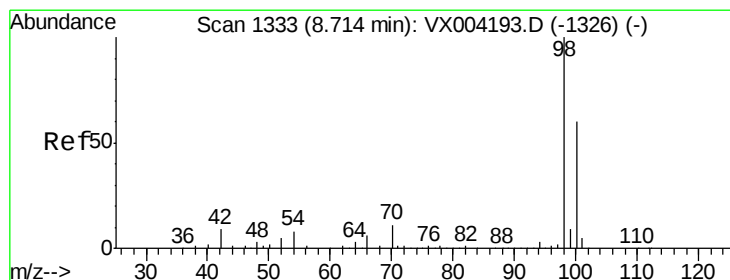
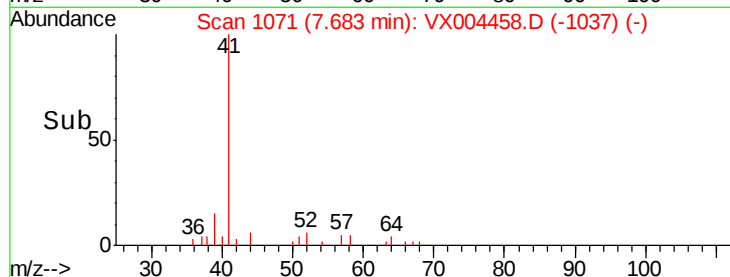
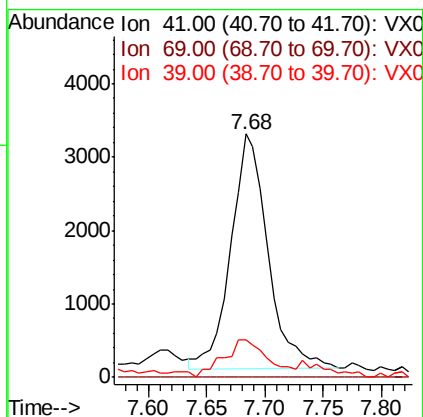
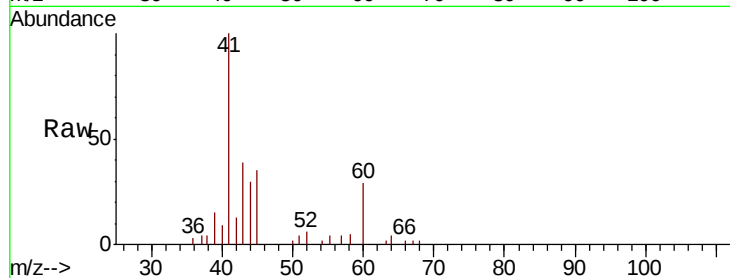




#48
Methvl methacrylate
Concen: 1.67 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

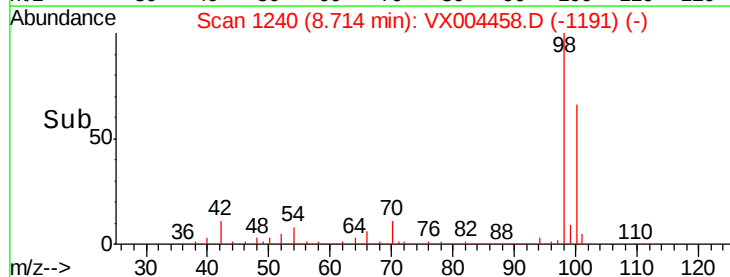
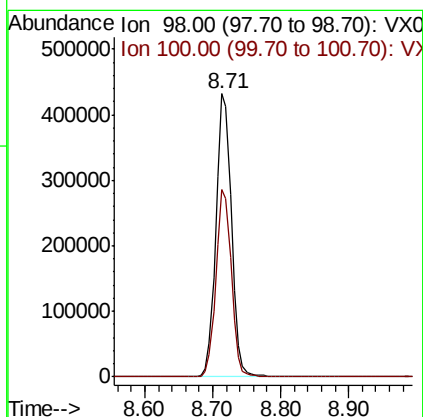
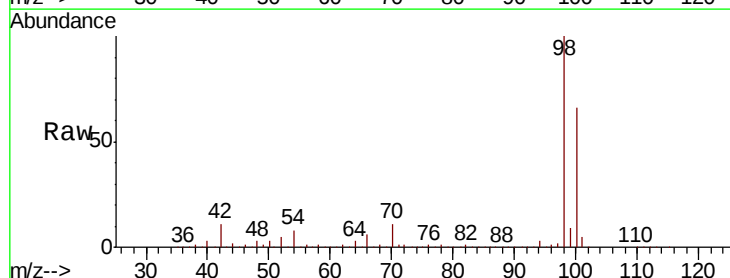
Instrument :
MSVOA_X
ClientSampleId :
EO-02-090718-A

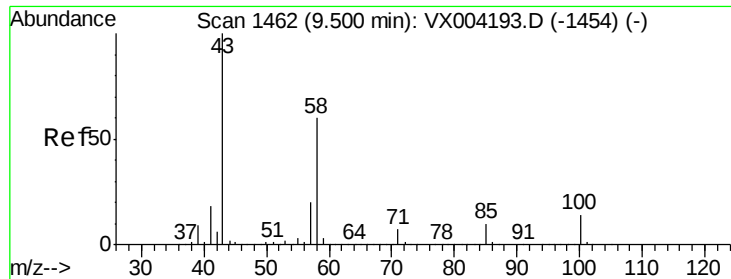
Tot Ion: 41 Resp: 7135
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 19.0 42.7 64.1#



#50
Toluene-d8
Concen: 51.74 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

Tgt Ion: 98 Resp: 683900
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3

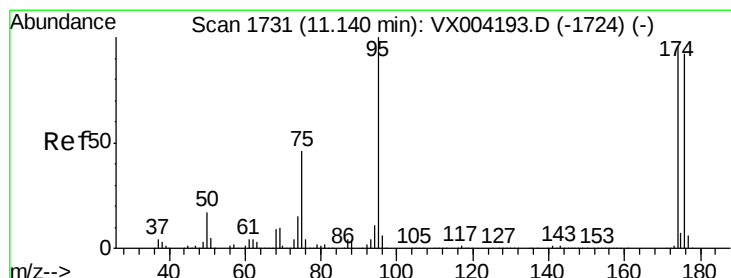
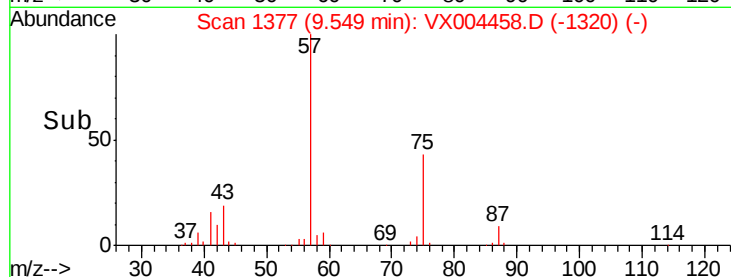
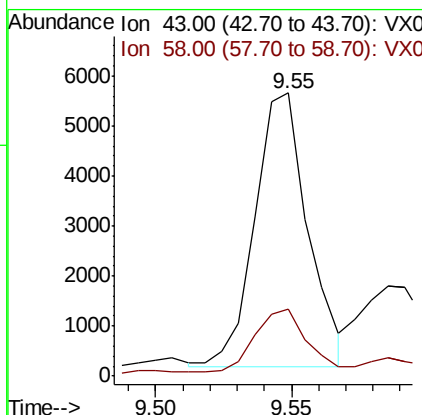
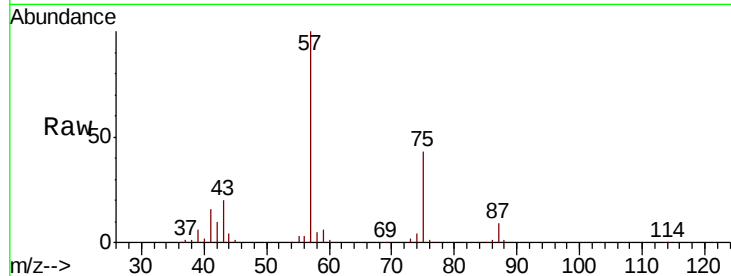




#59
2-Hexanone
Concen: 1.67 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

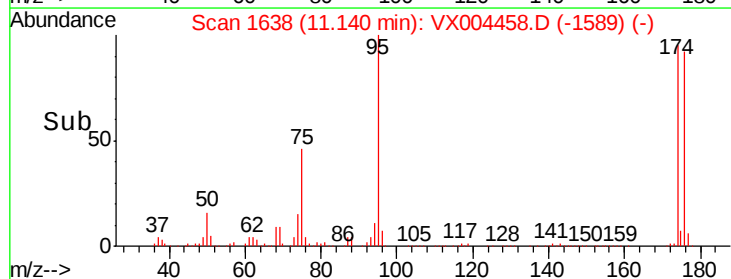
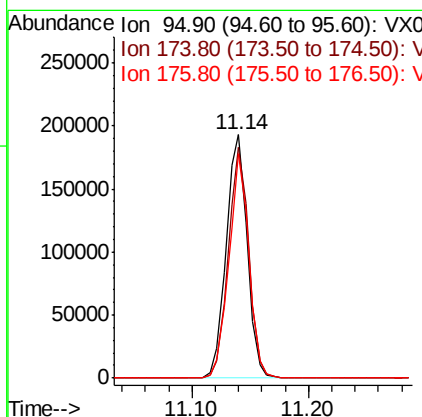
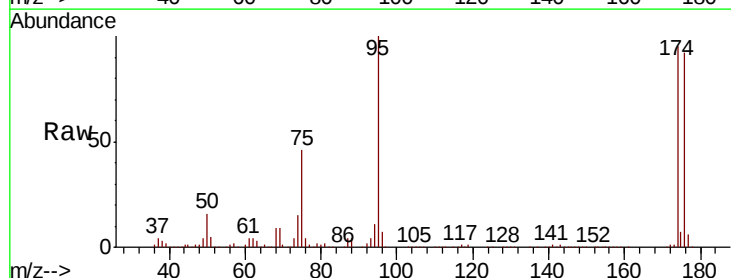
Instrument :
MSVOA_X
ClientSampleId :
EO-02-090718-A

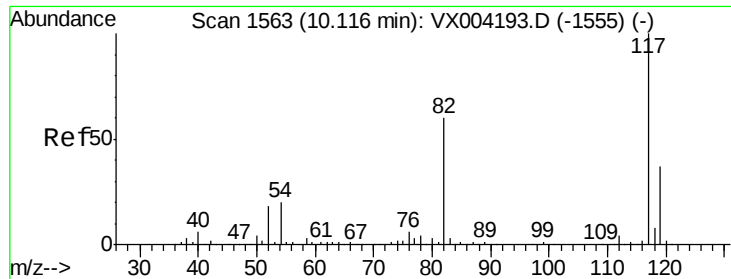
Tot Ion: 43 Resp: 7404
Ion Ratio Lower Upper
43 100
58 26.7 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 48.85 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

Tgt Ion: 95 Resp: 240890
Ion Ratio Lower Upper
95 100
174 93.0 0.0 185.2
176 88.0 0.0 178.6

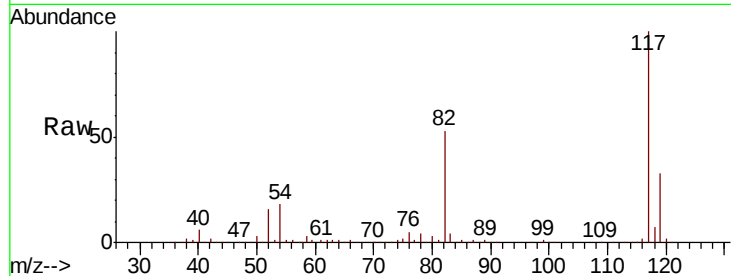




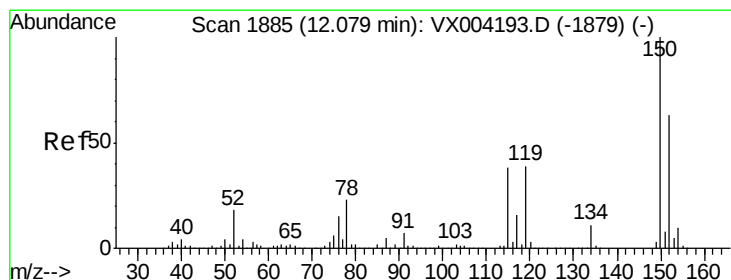
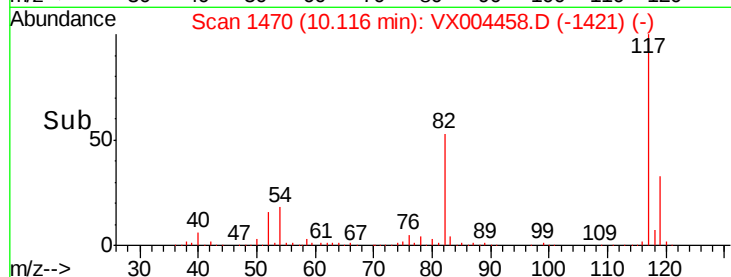
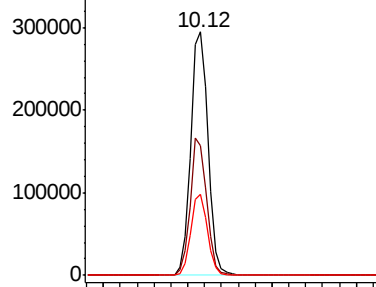
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

Instrument :
MSVOA_X
ClientSampleId :
EO-02-090718-A

Tot Ion:117 Resp: 419804
Ion Ratio Lower Upper
117 100
82 53.0 47.8 71.6
119 33.0 29.3 43.9

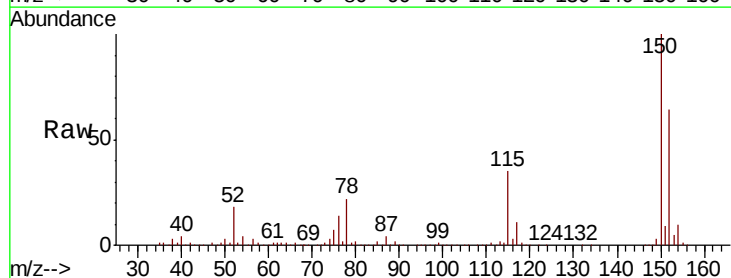


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

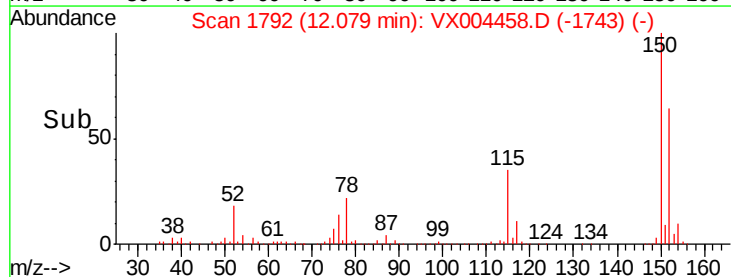
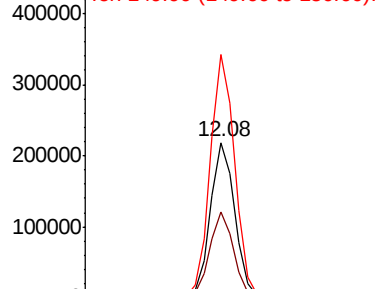


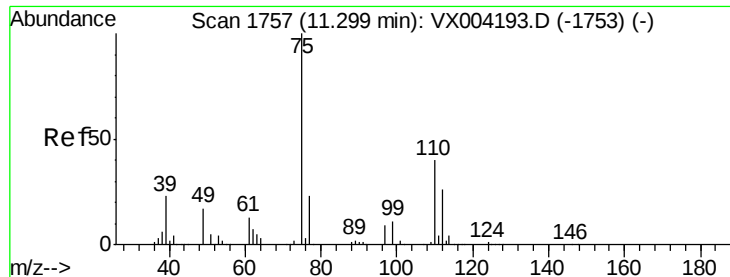
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004458.D
Acq: 10 Sep 2018 19:28

Tgt Ion:152 Resp: 258754
Ion Ratio Lower Upper
152 100
115 54.4 39.0 117.0
150 157.2 0.0 351.0



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: 21.30 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

Instrument :

MSVOA_X

ClientSampleId :

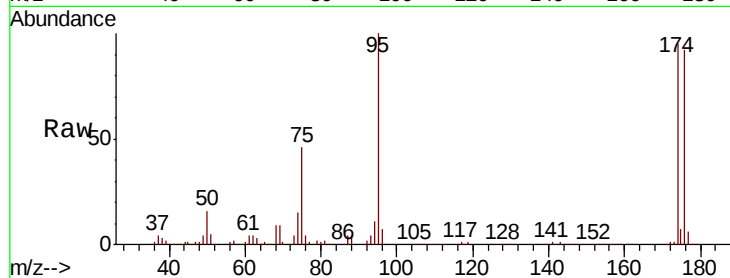
EO-02-090718-A

Tot Ion: 75 Resp: 112077

Ion Ratio Lower Upper

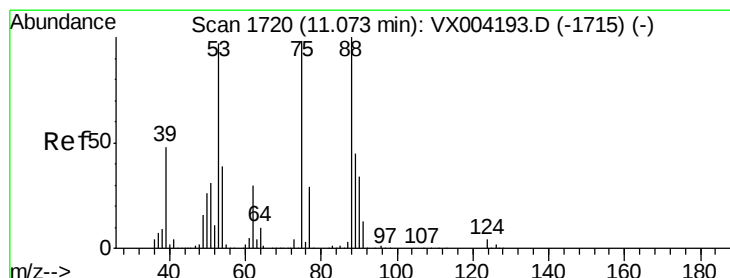
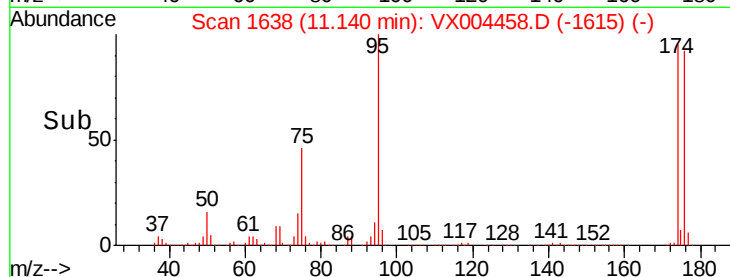
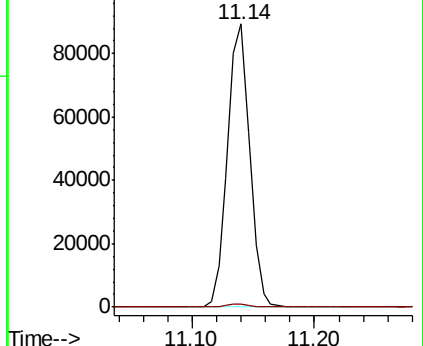
75 100

77 1.4 20.2 60.6#



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: 69.10 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004458.D

Acq: 10 Sep 2018 19:28

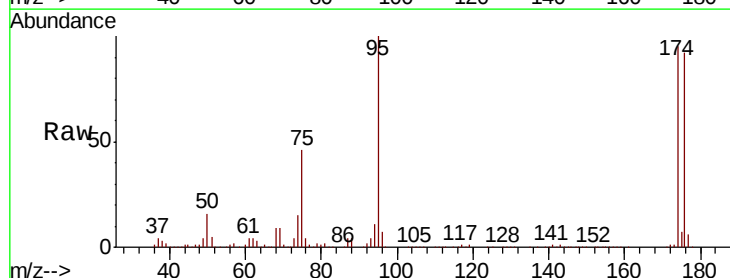
Tgt Ion: 75 Resp: 112077

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

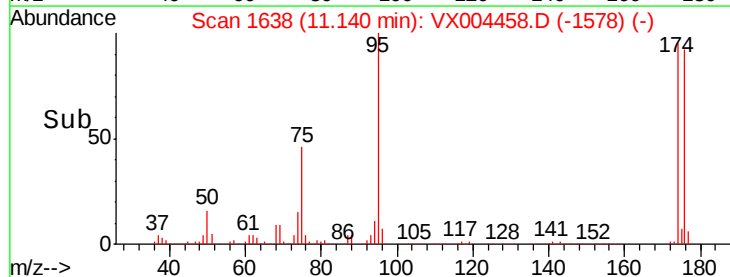
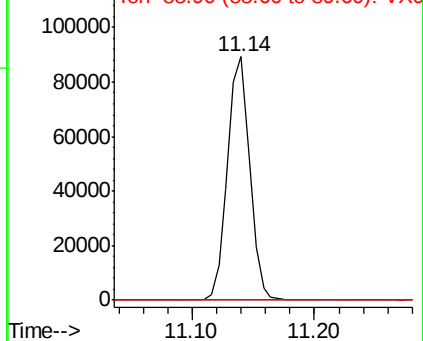
89 0.0 37.2 55.8#

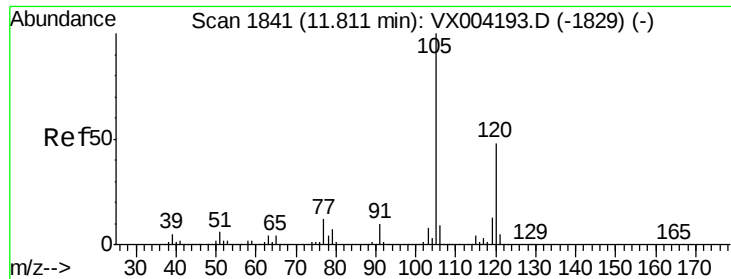


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

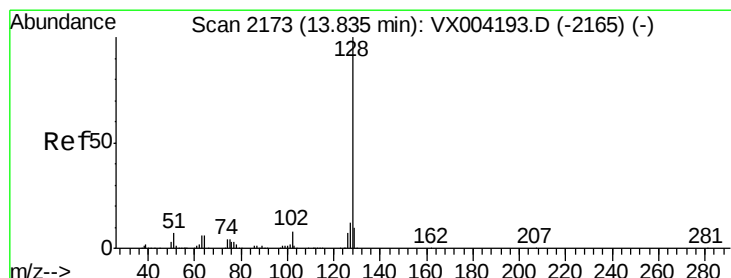
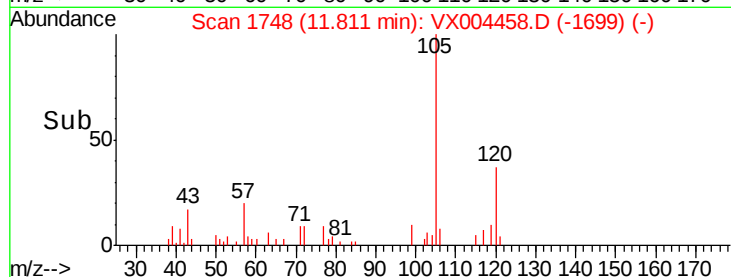
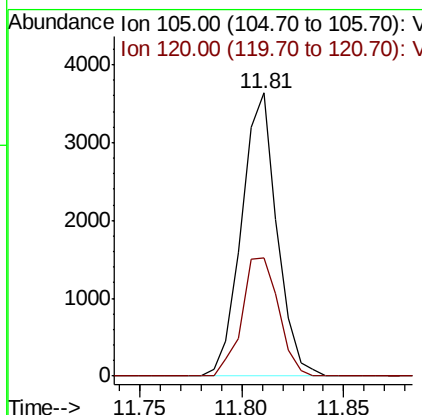
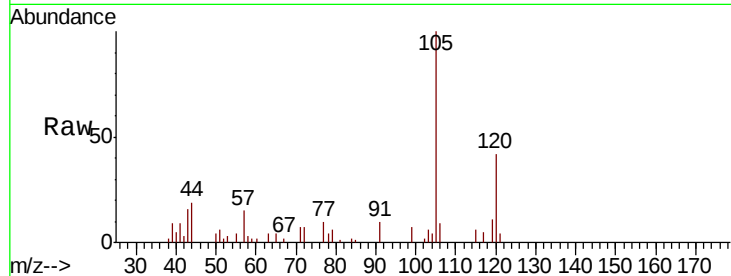




#84
 1,2,4-Trimethylbenzene
 Concen: 0.30 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-02-090718-A

Tot Ion:105 Resp: 4381
 Ion Ratio Lower Upper
 105 100
 120 43.3 23.2 69.6



#95
 Naphthalene
 Concen: 2.50 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX004458.D
 Acq: 10 Sep 2018 19:28

Tgt Ion:128 Resp: 42270
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.2 15.2
 129 10.8 8.6 12.8

