

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004460.D
 Acq On : 10 Sep 2018 20:21
 Operator : JC/MD
 Sample : J4769-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-A

Quant Time: Sep 11 01:23:44 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	286482	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	478574	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	442507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	266422	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	207541	55.58	ug/l	0.00
Spiked Amount			Recovery	=	111.16%	
35) Dibromofluoromethane	5.50	113	184409	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
50) Toluene-d8	8.71	98	695019	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.14	95	249981	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	

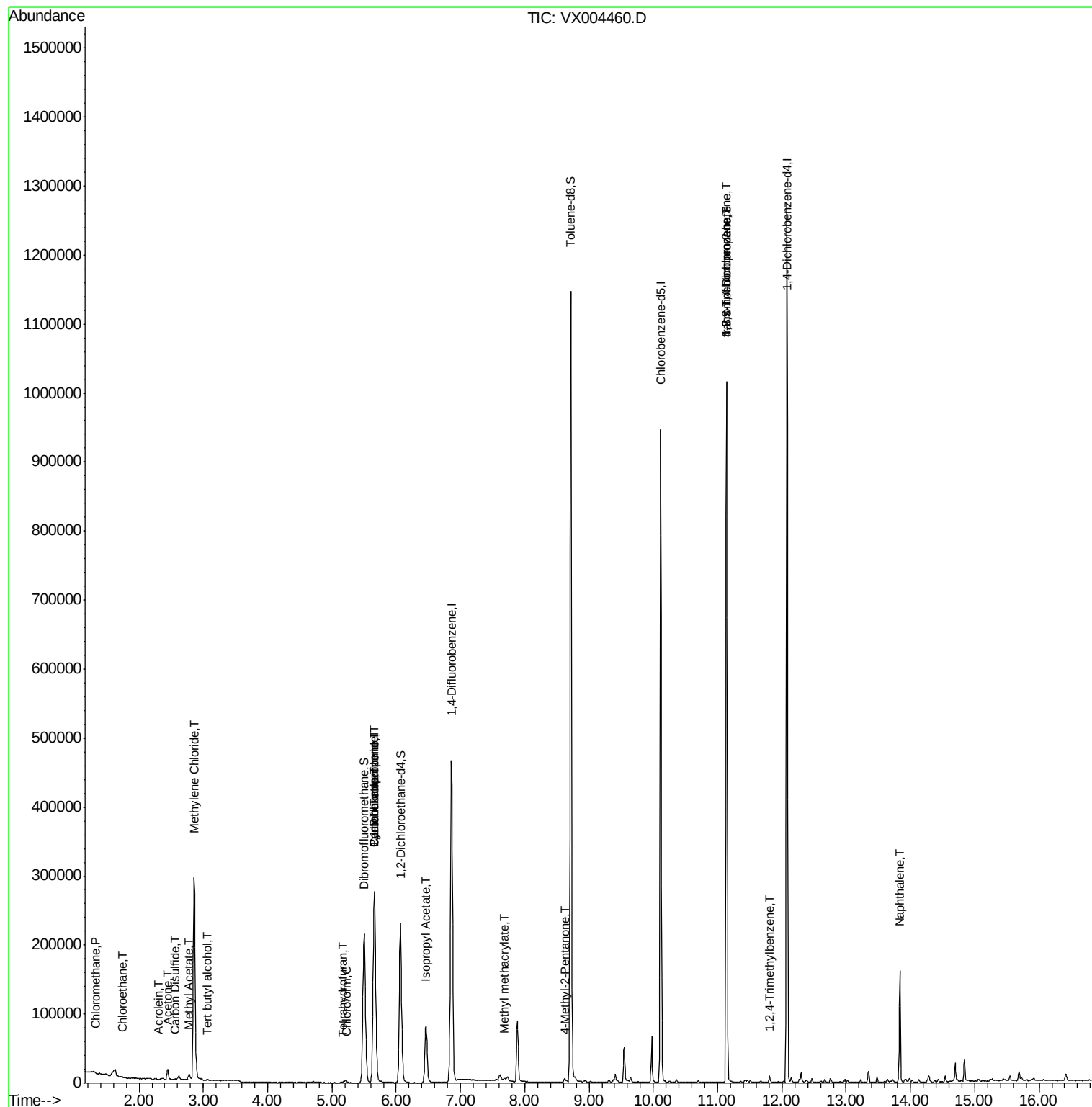
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	426	0.41	ug/l #	35
5) Bromomethane	1.59	94	169	Below Cal	#	3
6) Chloroethane	1.73	64	26	0.98	ug/l #	44
11) Tert butyl alcohol	3.06	59	1370	1.72	ug/l #	83
13) Acrolein	2.30	56	90	0.47	ug/l #	1
16) Acetone	2.45	43	15019	1.84	ug/l	98
17) Carbon Disulfide	2.56	76	483	0.85	ug/l #	76
18) Methyl Acetate	2.78	43	9735	1.76	ug/l	99
20) Methylene Chloride	2.85	84	145405	40.45	ug/l	97
25) 2-Butanone	4.71	43	2628	Below Cal	#	86
29) Tetrahydrofuran	5.17	42	1287	0.80	ug/l #	78
30) Chloroform	5.22	83	3193	0.52	ug/l	99
31) Cyclohexane	5.67	56	4765	0.91	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18961	3.52	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25194	4.98	ug/l #	16
43) Isopropyl Acetate	6.46	43	106415	13.09	ug/l	99
48) Methyl methacrylate	7.69	41	5662	1.30	ug/l #	22
51) 4-Methyl-2-Pentanone	8.62	43	1706	0.29	ug/l #	34
76) 1,2,3-Trichloropropane	11.14	75	117349	21.66	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	117349	70.27	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	4359	0.29	ug/l	94
94) Hexachlorobutadiene	13.78	225	78	Below Cal	#	20
95) Naphthalene	13.83	128	101419	5.83	ug/l	99

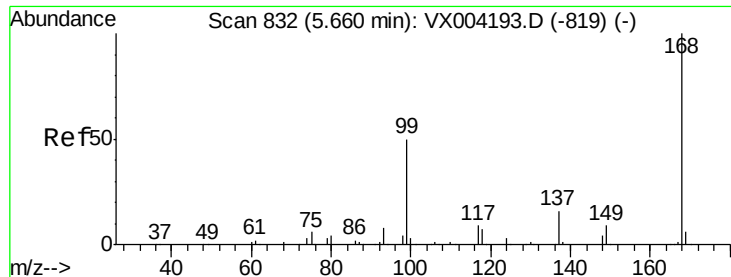
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091018\
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Quant Time: Sep 11 01:23:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
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: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

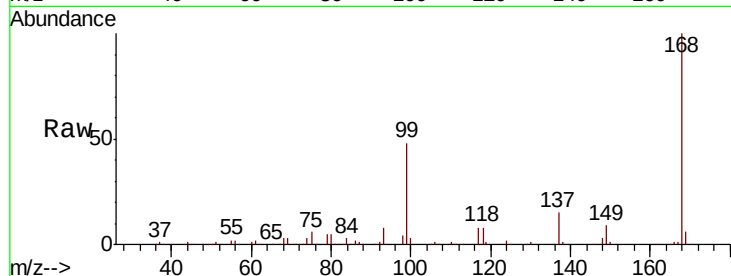
HR-05-090718-A

Tot Ion:168 Resp: 286482

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

120000

100000

80000

60000

40000

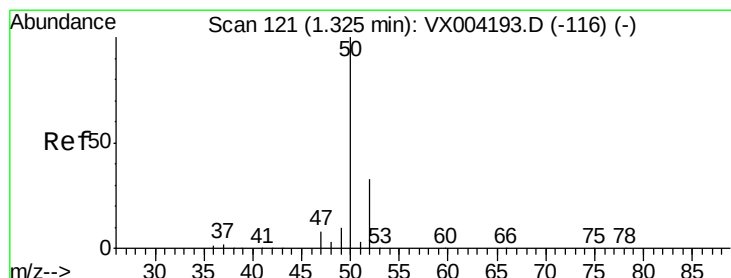
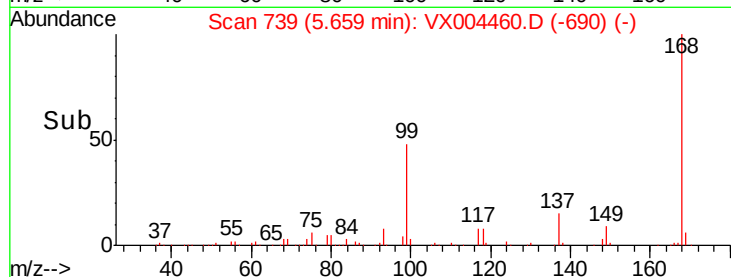
20000

0

5.66

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.41 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004460.D

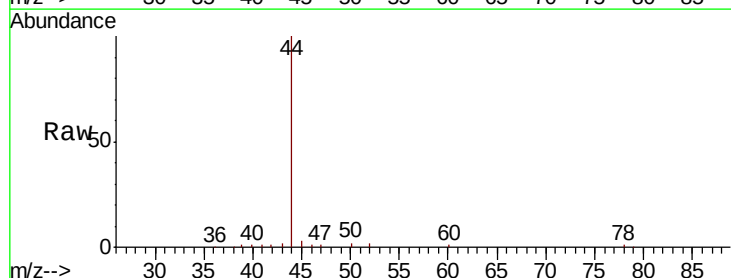
Acq: 10 Sep 2018 20:21

Tgt Ion: 50 Resp: 426

Ion Ratio Lower Upper

50 100

52 69.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

300

200

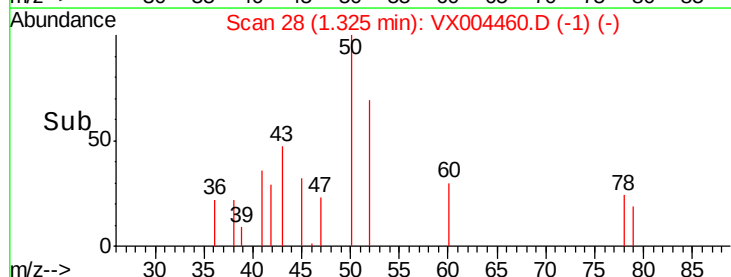
100

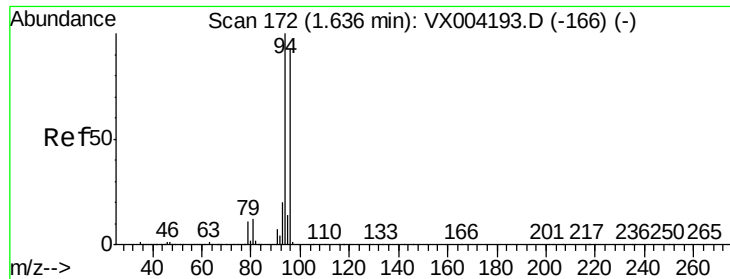
0

1.32

1.28 1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 72

Delta R.T. -0.04 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

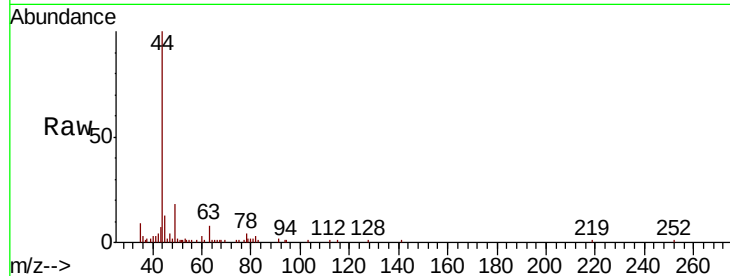
HR-05-090718-A

Tot Ion: 94 Resp: 169

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

200

100

0

1.59

1.58

1.57

1.56

1.55

1.54

1.53

1.52

1.51

1.50

1.49

1.48

1.47

1.46

1.45

1.44

1.43

1.42

1.41

1.40

1.39

1.38

1.37

1.36

1.35

1.34

1.33

1.32

1.31

1.30

1.29

1.28

1.27

1.26

1.25

1.24

1.23

1.22

1.21

1.20

1.19

1.18

1.17

1.16

1.15

1.14

1.13

1.12

1.11

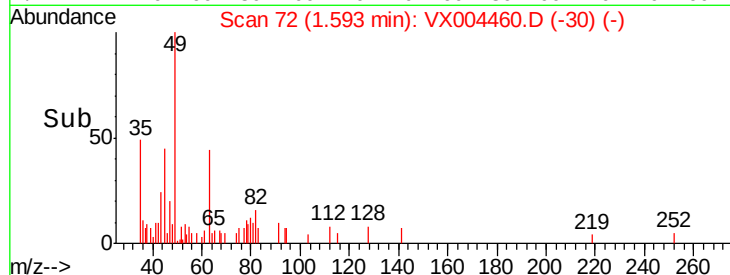
1.10

1.09

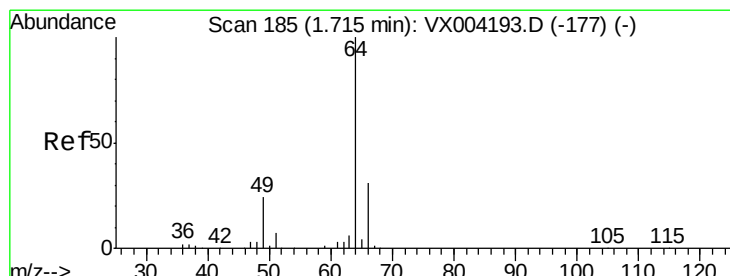
1.08

1.07

1.06



Time-->



#6

Chloroethane

Concen: 0.98 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX004460.D

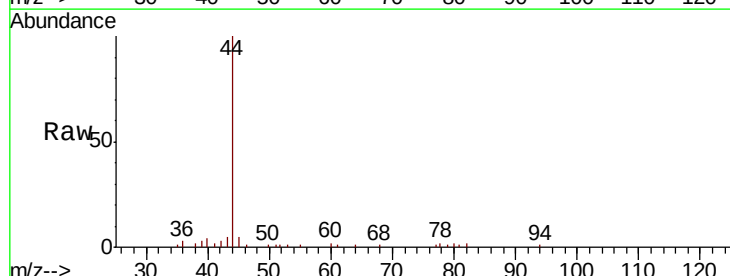
Acq: 10 Sep 2018 20:21

Tgt Ion: 64 Resp: 26

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

80

60

40

20

0

1.73

1.72

1.71

1.70

1.69

1.68

1.67

1.66

1.65

1.64

1.63

1.62

1.61

1.60

1.59

1.58

1.57

1.56

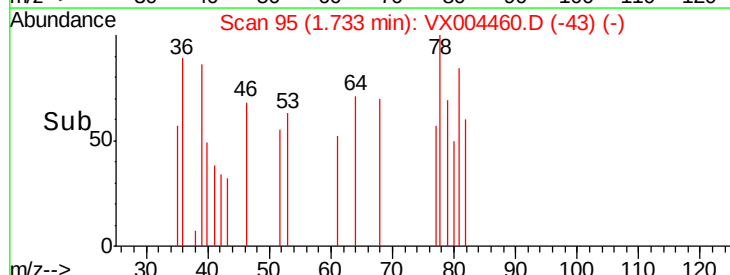
1.55

1.54

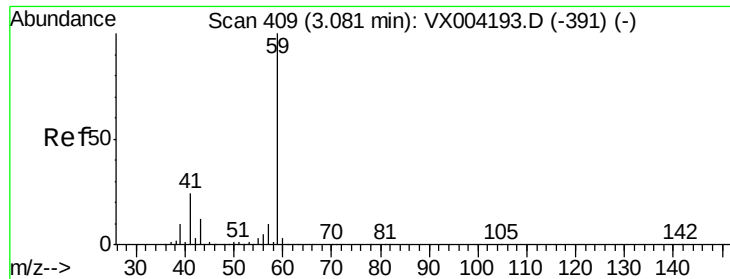
1.53

1.52

1.51



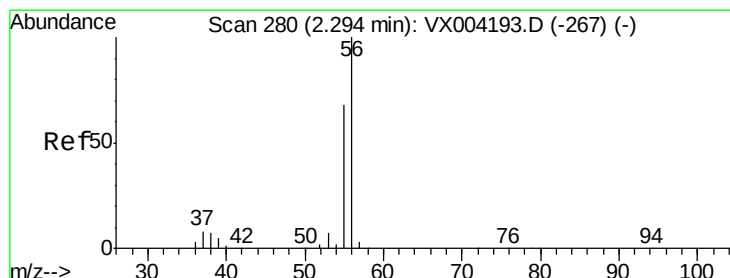
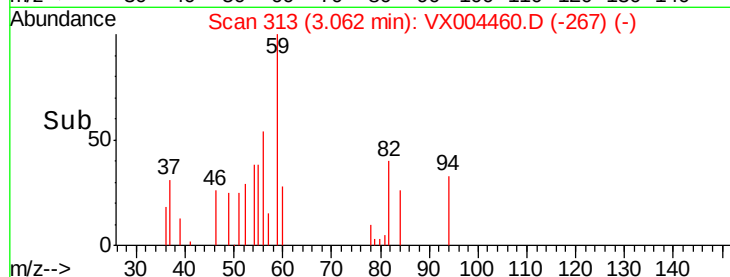
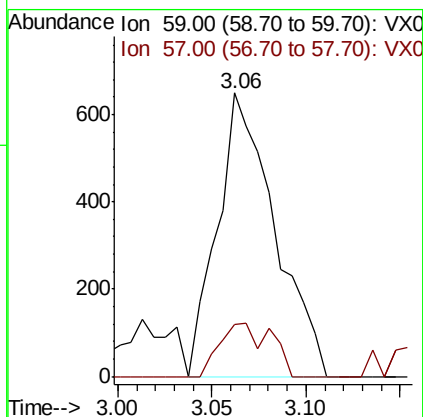
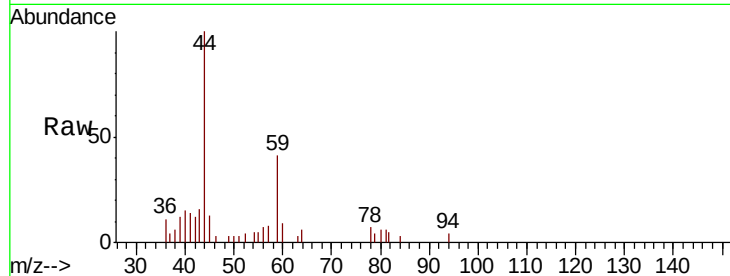
Time-->



#11
Tert butyl alcohol
Concen: 1.72 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

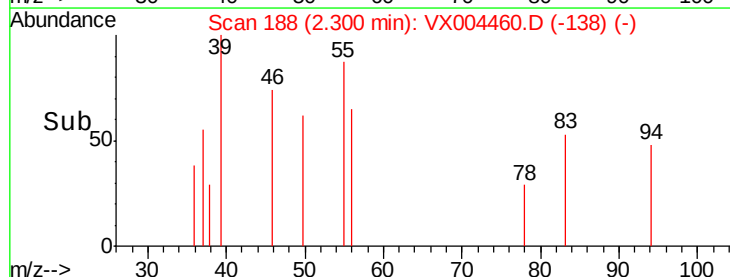
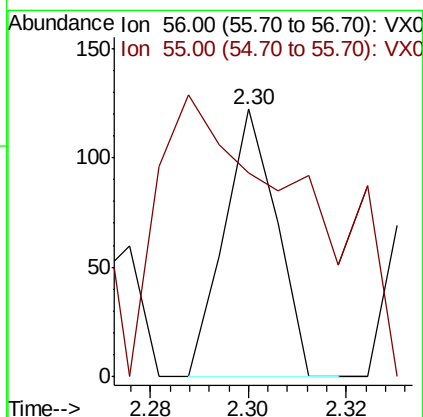
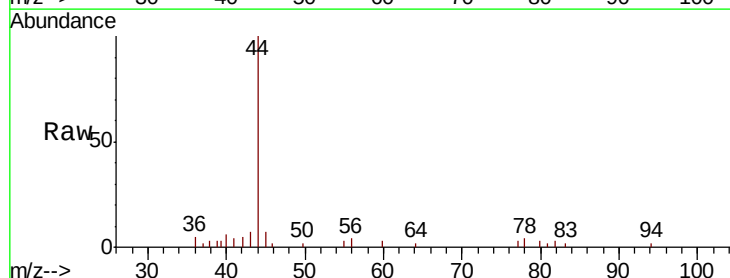
Instrument :
MSVOA_X
ClientSampleId :
HR-05-090718-A

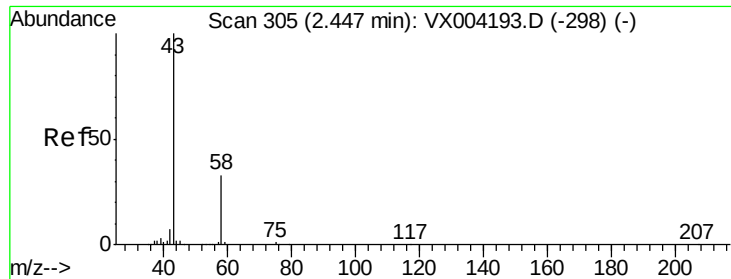
Tot Ion: 59 Resp: 1370
Ion Ratio Lower Upper
59 100
57 16.7 8.2 12.4#



#13
Acrolein
Concen: 0.47 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

Tgt Ion: 56 Resp: 90
Ion Ratio Lower Upper
56 100
55 300.0 54.7 82.1#





#16

Acetone

Concen: 1.84 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

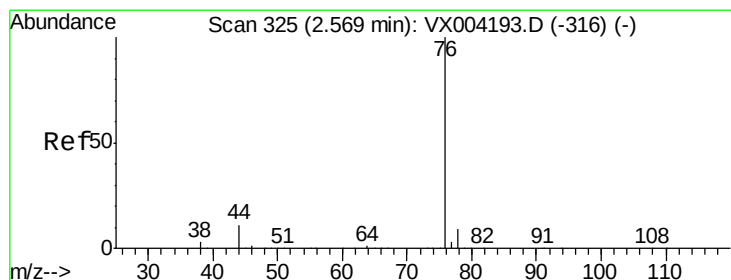
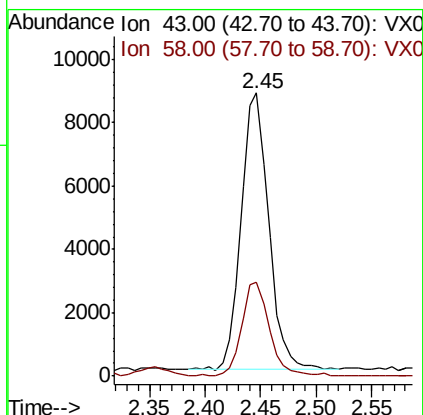
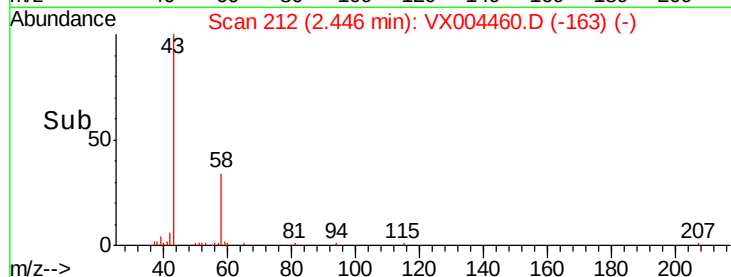
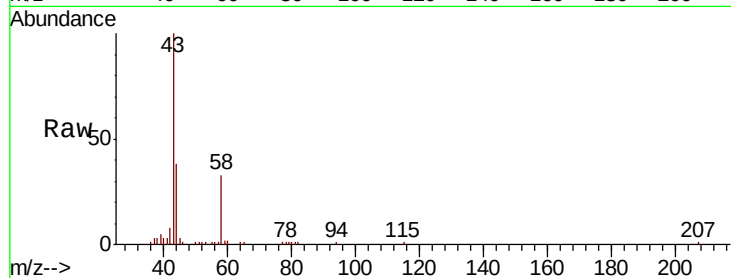
HR-05-090718-A

Tot Ion: 43 Resp: 15019

Ion Ratio Lower Upper

43 100

58 34.1 26.2 39.4



#17

Carbon Disulfide

Concen: 0.85 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX004460.D

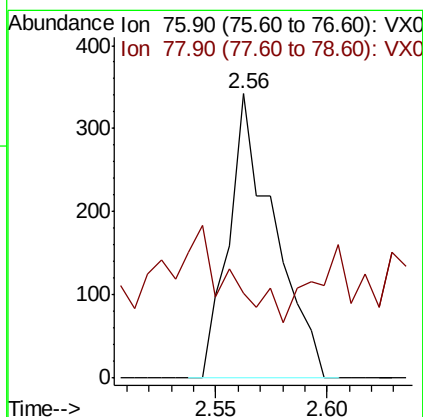
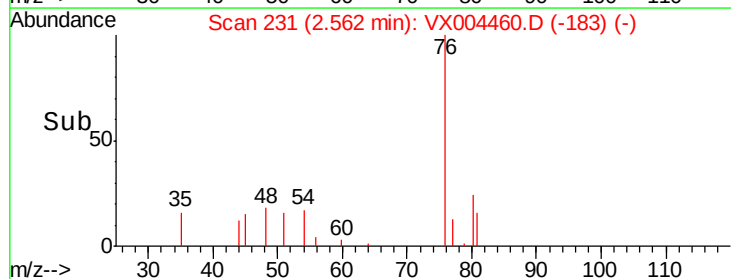
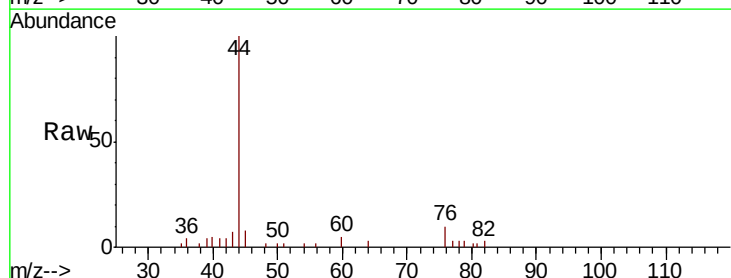
Acq: 10 Sep 2018 20:21

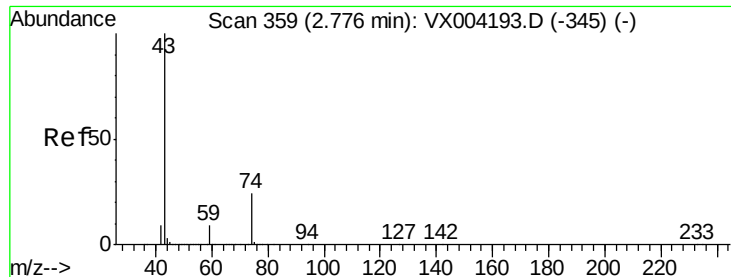
Tgt Ion: 76 Resp: 483

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

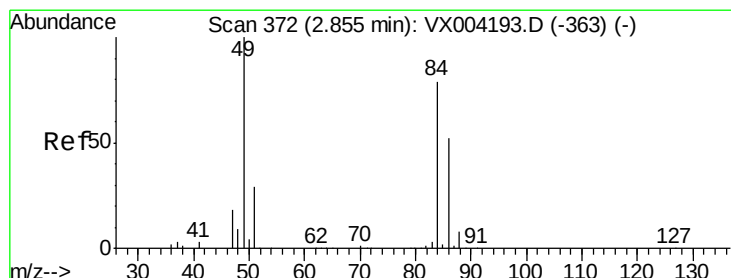
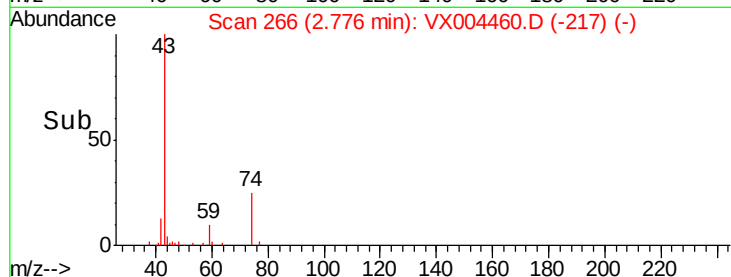
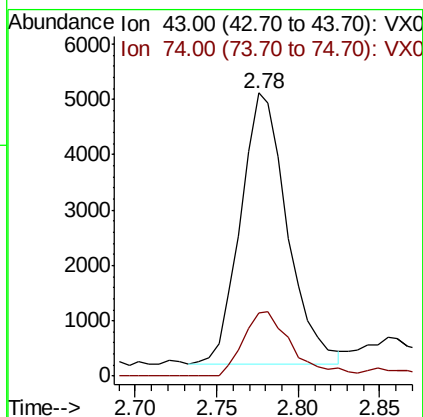
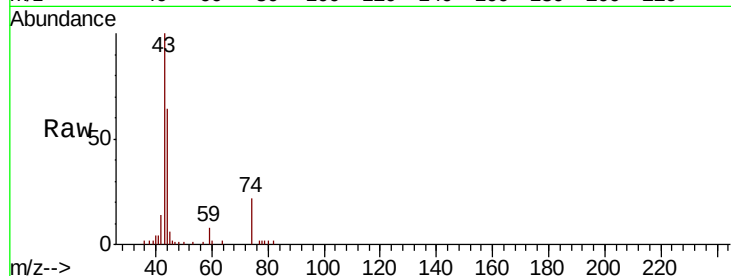




#18
Methvl Acetate
Concen: 1.76 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

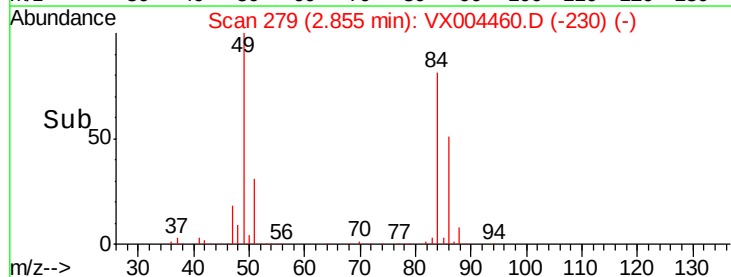
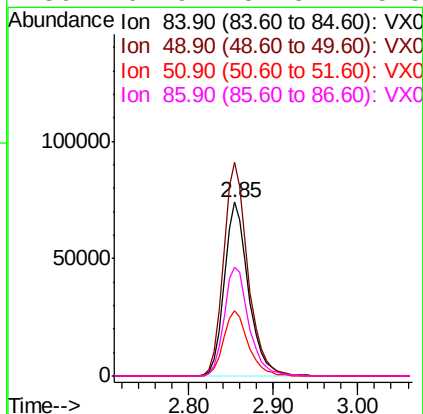
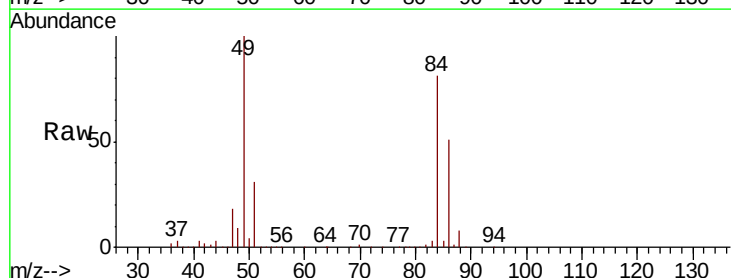
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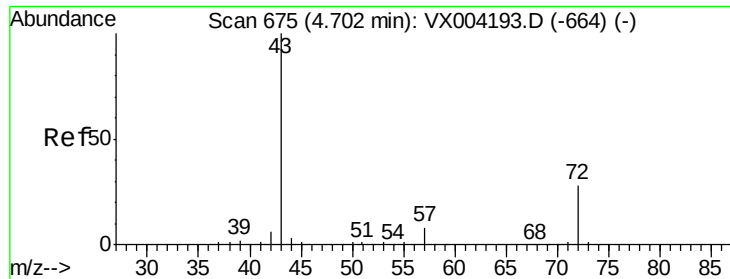
Tot Ion: 43 Resp: 9735
Ion Ratio Lower Upper
43 100
74 24.7 19.4 29.2



#20
Methylene Chloride
Concen: 40.45 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

Tgt Ion: 84 Resp: 145405
Ion Ratio Lower Upper
84 100
49 122.9 101.2 151.8
51 37.7 29.5 44.3
86 62.9 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

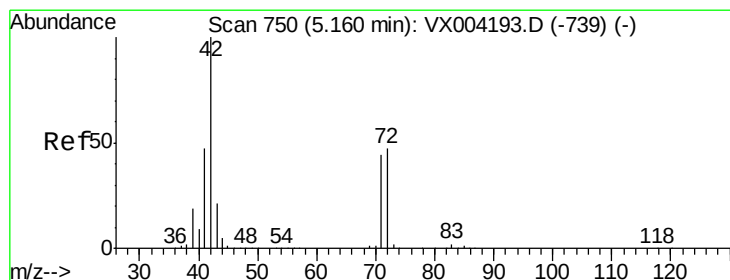
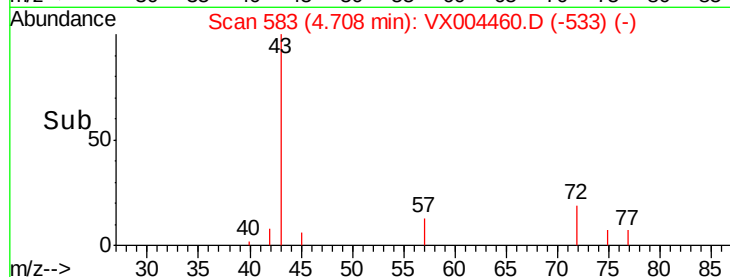
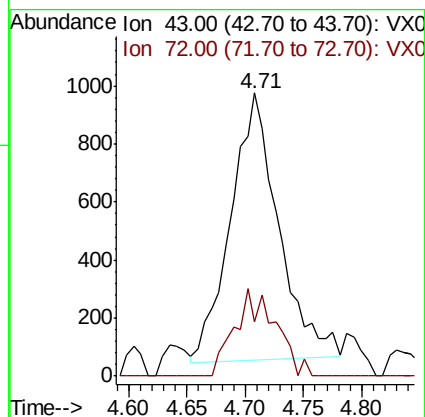
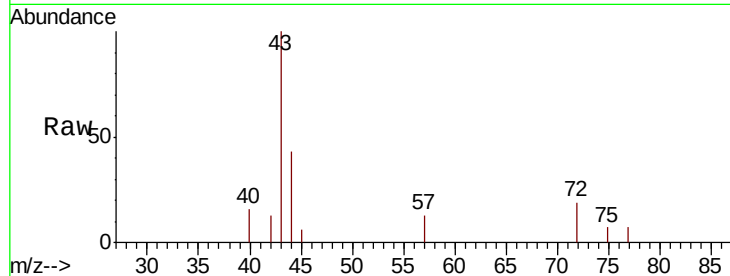
HR-05-090718-A

Tot Ion: 43 Resp: 2628

Ion Ratio Lower Upper

43 100

72 20.4 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: VX004460.D

Acq: 10 Sep 2018 20:21

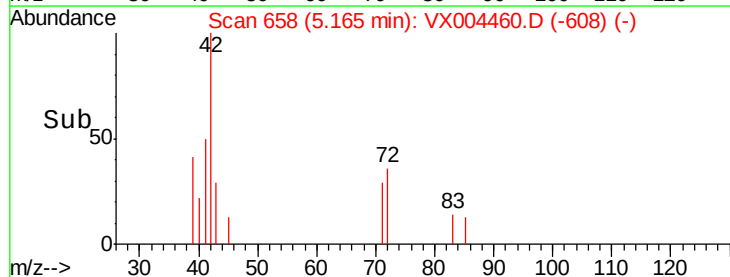
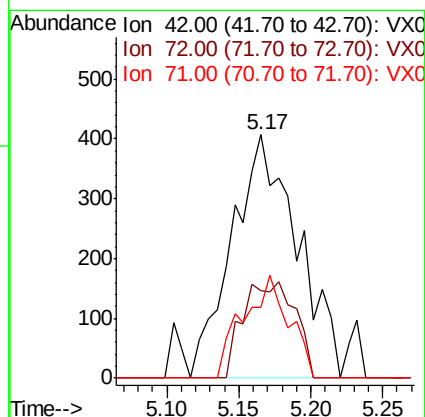
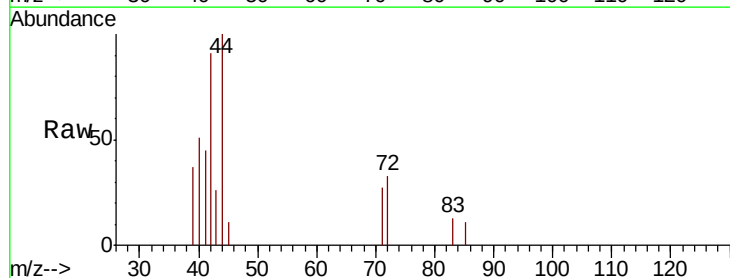
Tgt Ion: 42 Resp: 1287

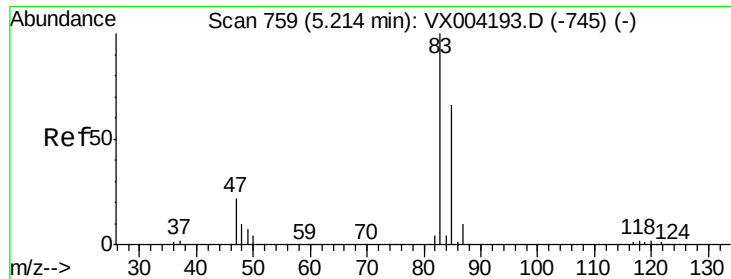
Ion Ratio Lower Upper

42 100

72 31.6 37.4 56.0#

71 29.5 34.5 51.7#

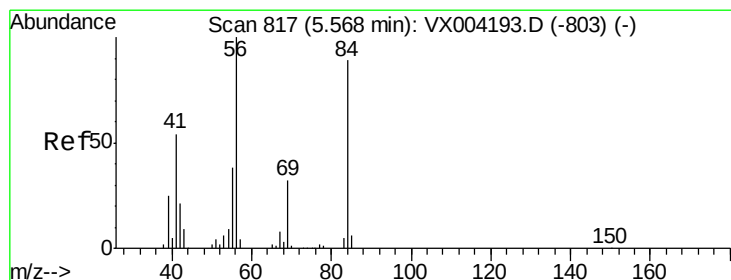
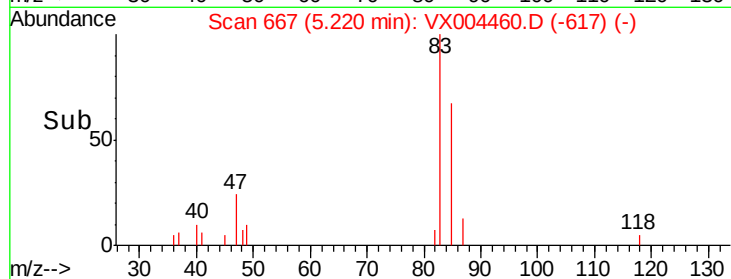
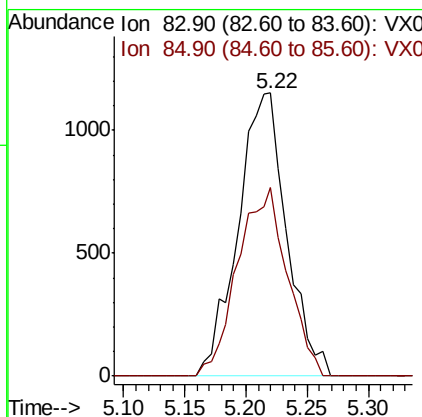
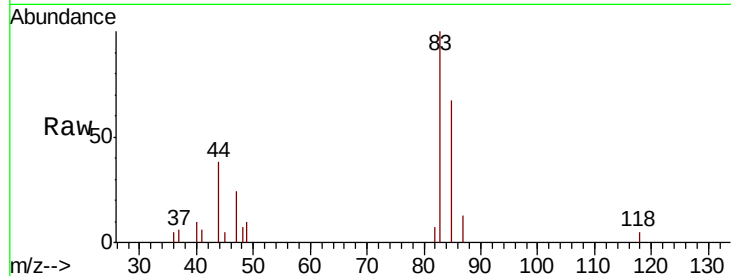




#30
Chloroform
Concen: 0.52 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

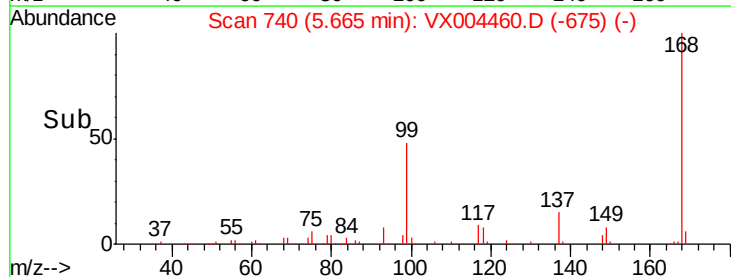
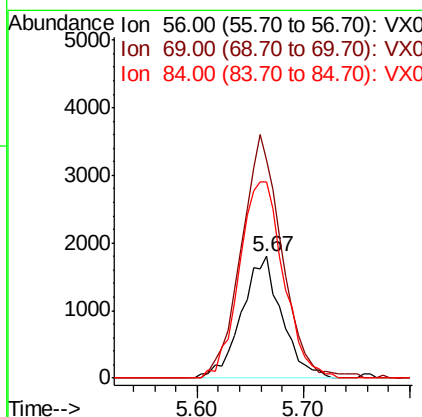
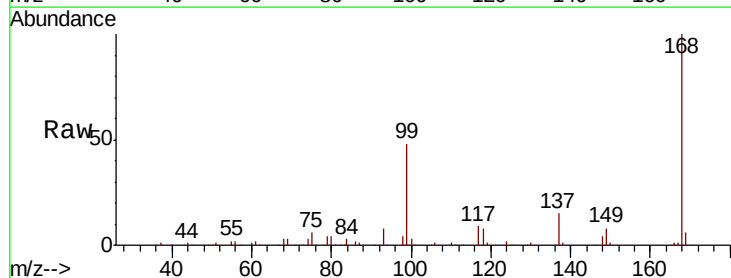
Instrument :
MSVOA_X
ClientSampleId :
HR-05-090718-A

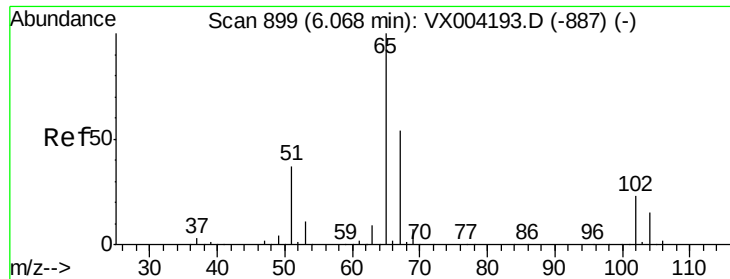
Tot Ion: 83 Resp: 3193
Ion Ratio Lower Upper
83 100
85 66.6 52.6 79.0



#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

Tgt Ion: 56 Resp: 4765
Ion Ratio Lower Upper
56 100
69 179.7 25.4 38.2#
84 161.7 71.4 107.2#

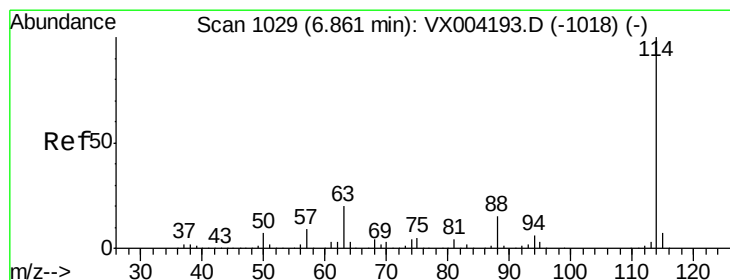
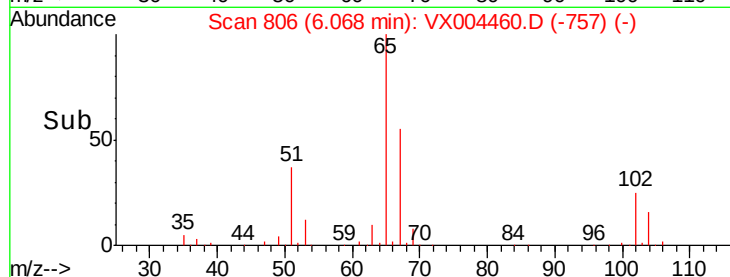
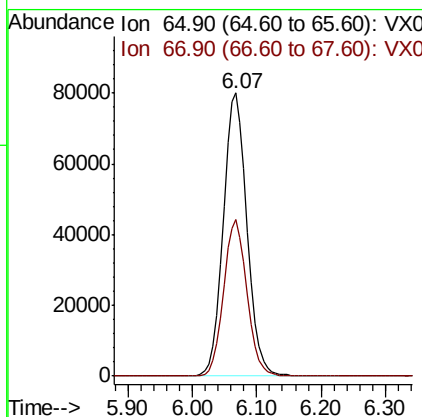
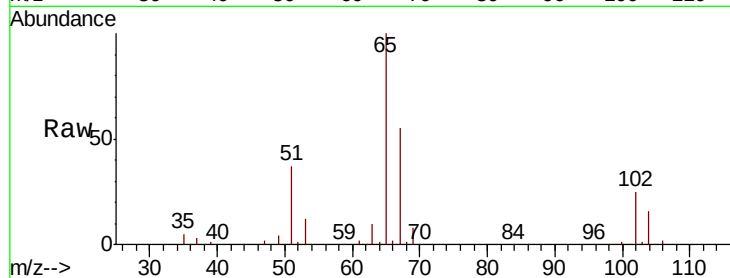




#33
 1,2-Dichloroethane-d4
 Concen: 55.58 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004460.D
 Acq: 10 Sep 2018 20:21

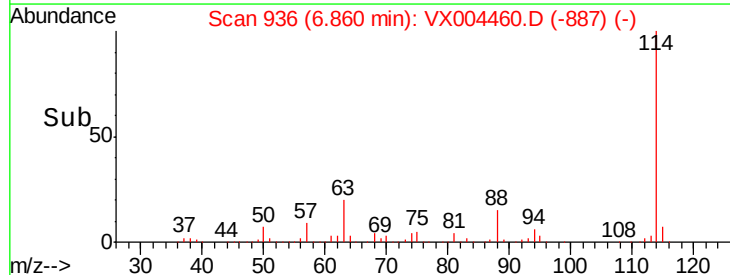
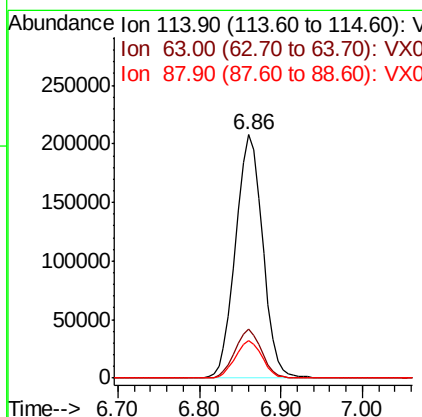
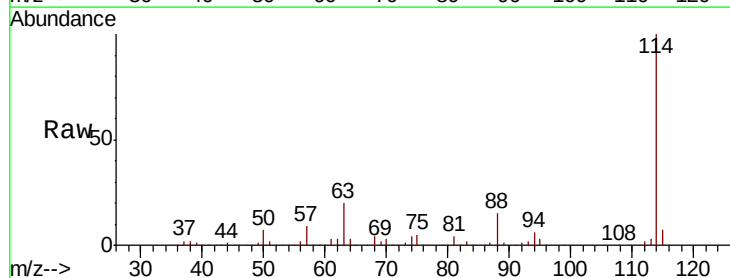
Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-A

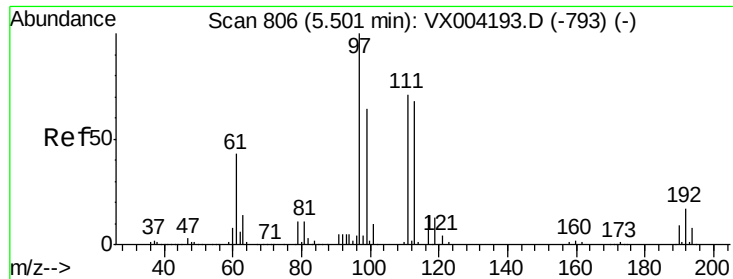
Tot Ion: 65 Resp: 207541
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004460.D
 Acq: 10 Sep 2018 20:21

Tgt Ion: 114 Resp: 478574
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.2 0.0 30.4

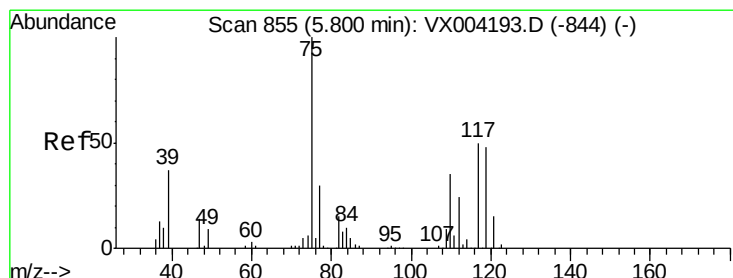
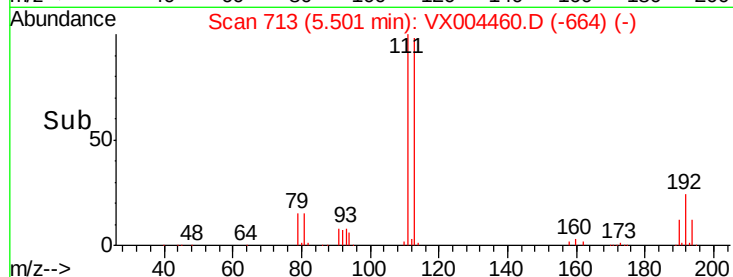
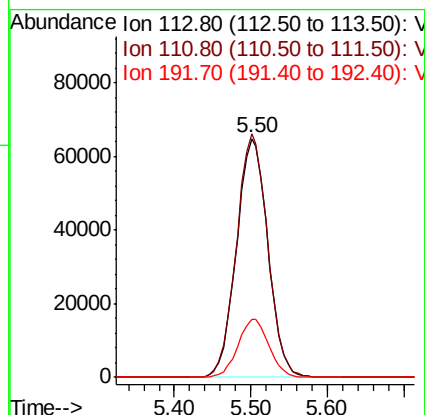
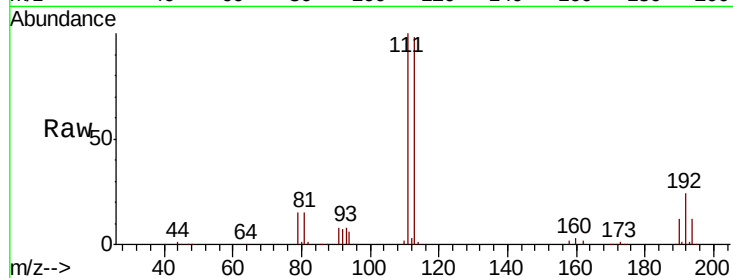




#35
 Dibromofluoromethane
 Concen: 51.80 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004460.D
 Acq: 10 Sep 2018 20:21

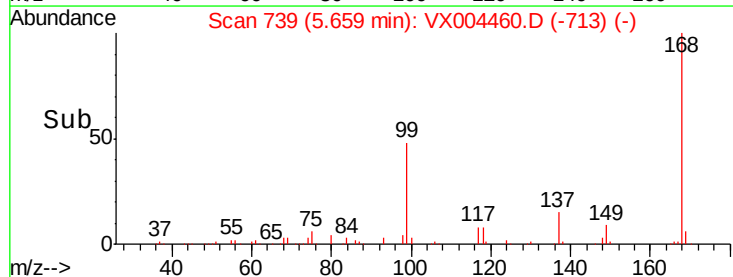
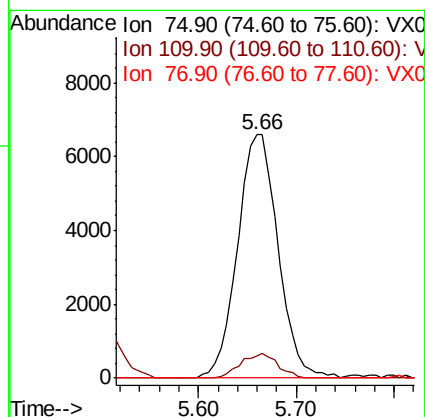
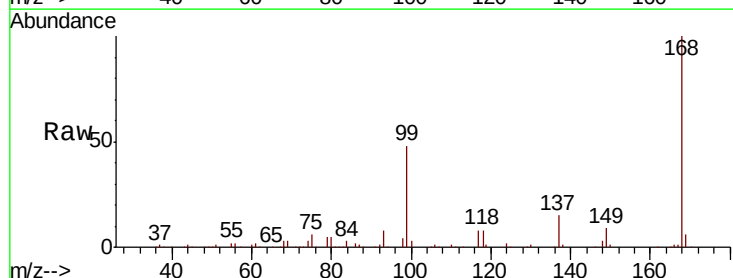
Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-A

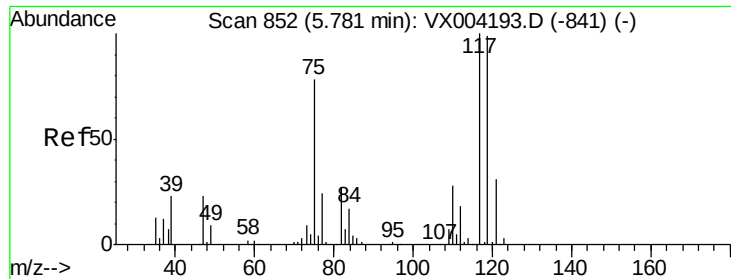
Tot Ion:113 Resp: 184409
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.4 123.6
 192 24.1 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.52 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004460.D
 Acq: 10 Sep 2018 20:21

Tgt Ion: 75 Resp: 18961
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.98 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-A

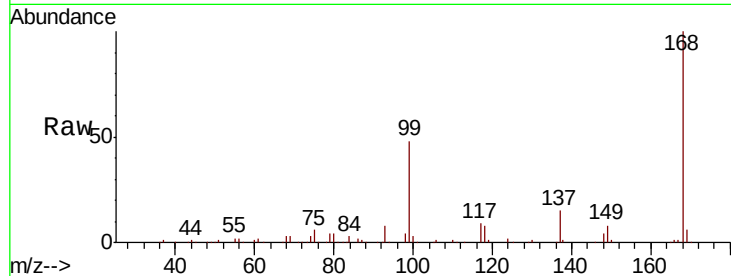
Tot Ion:117 Resp: 25194

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

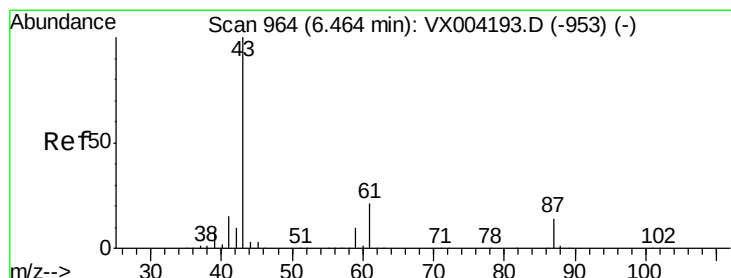
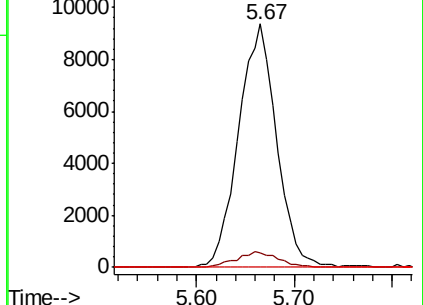
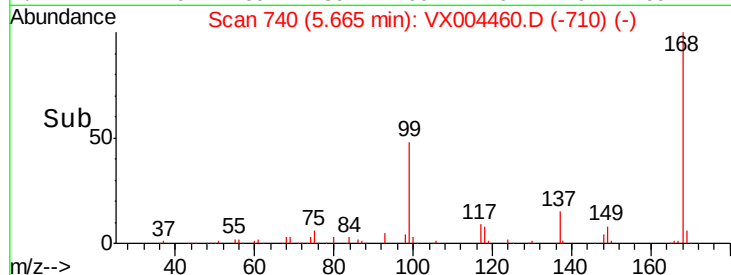
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 13.09 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

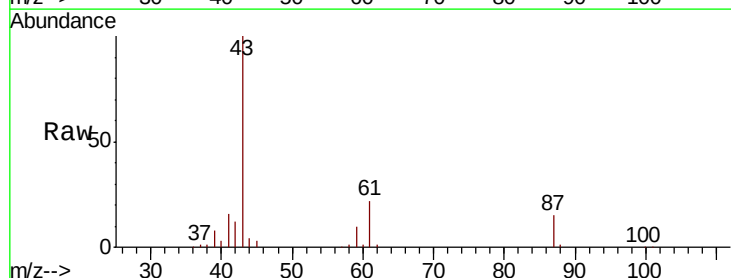
Tgt Ion: 43 Resp: 106415

Ion Ratio Lower Upper

43 100

61 21.9 17.0 25.4

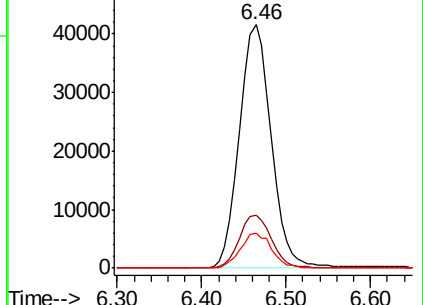
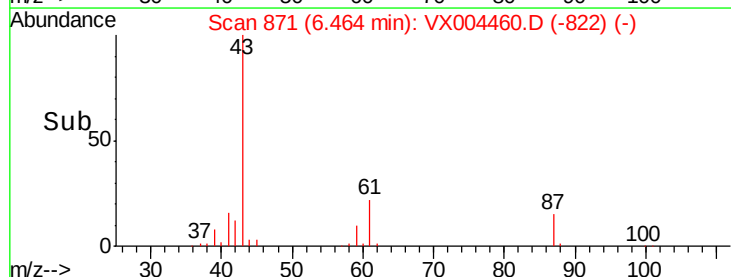
87 14.1 11.4 17.2

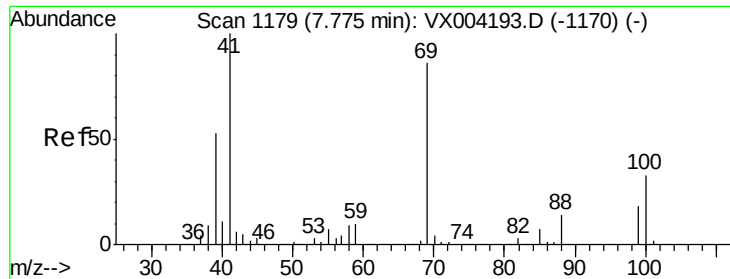


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.30 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-A

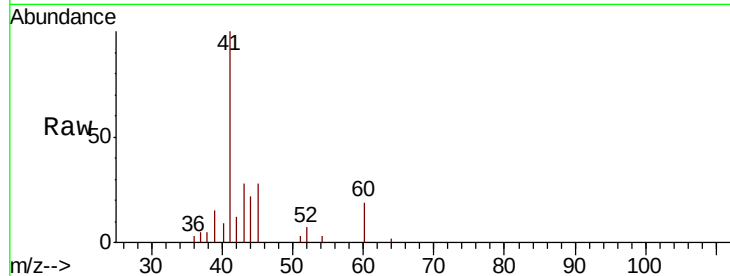
Tot Ion: 41 Resp: 5662

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

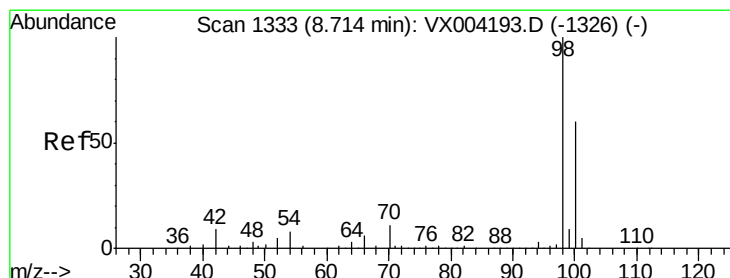
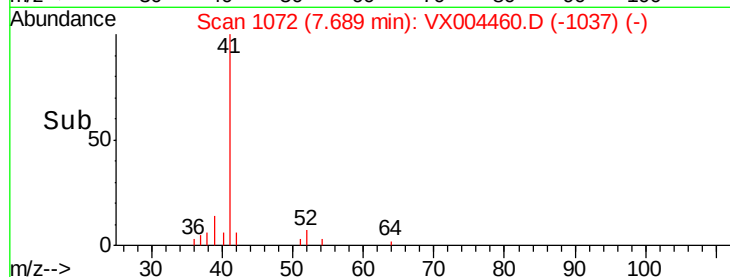
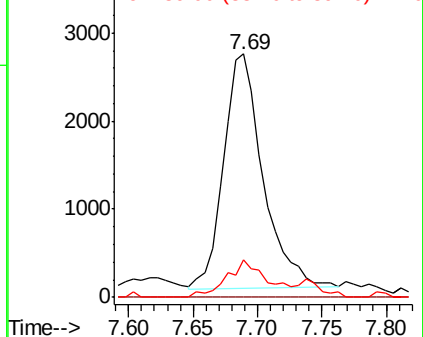
39 16.3 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 51.72 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004460.D

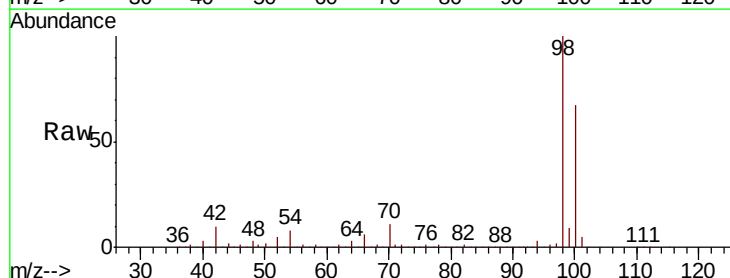
Acq: 10 Sep 2018 20:21

Tgt Ion: 98 Resp: 695019

Ion Ratio Lower Upper

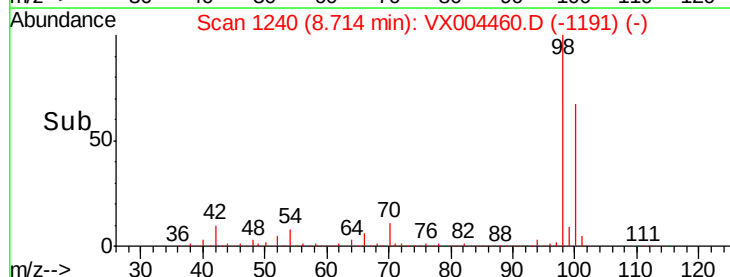
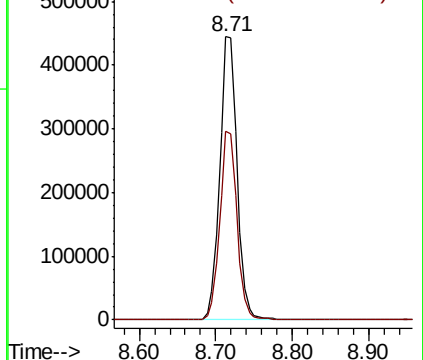
98 100

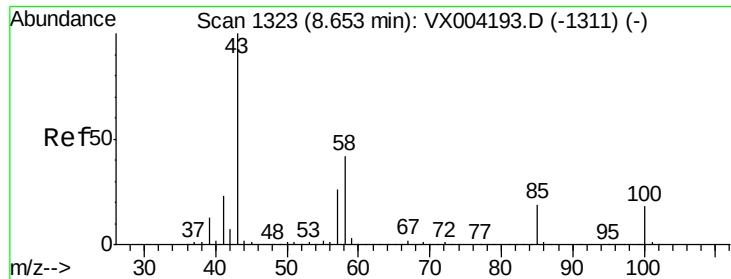
100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

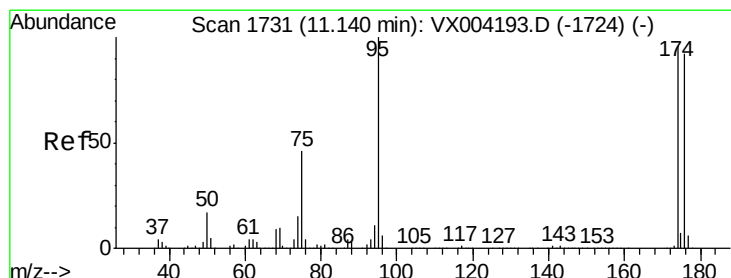
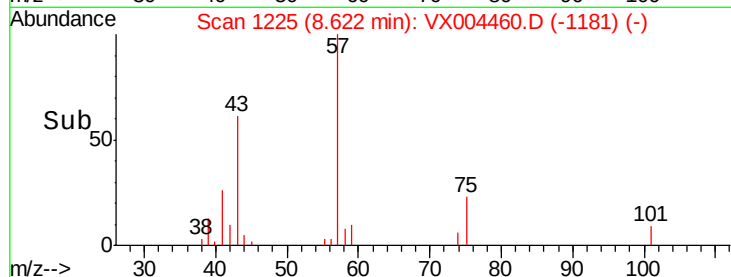
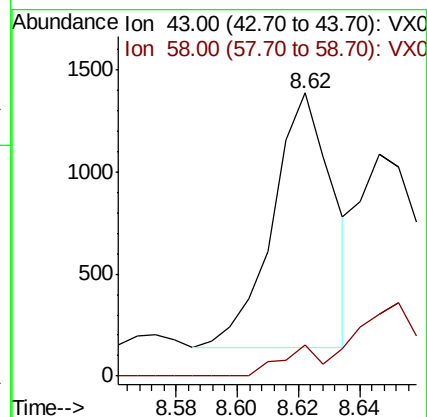
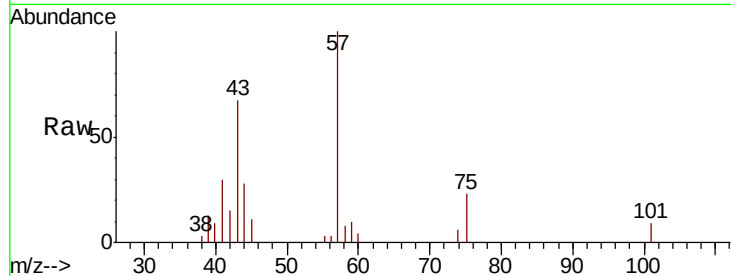
HR-05-090718-A

Tot Ion: 43 Resp: 1706

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#62

4-Bromofluorobenzene

Concen: 49.85 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

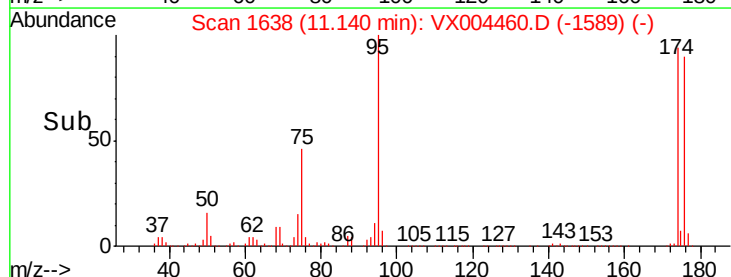
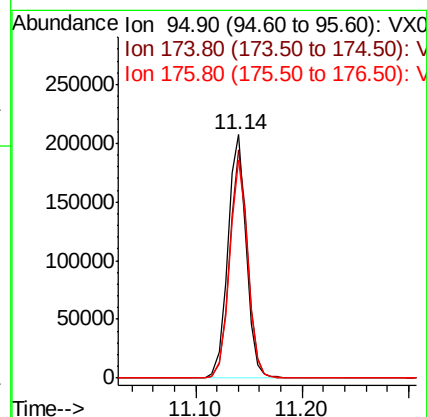
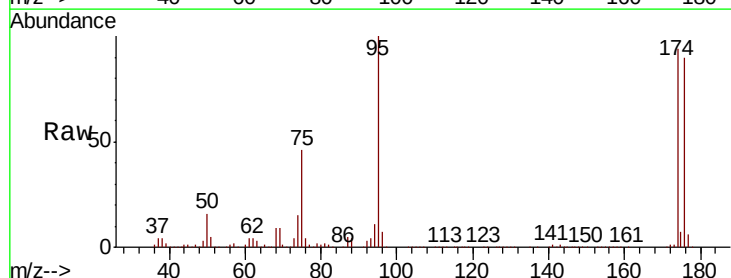
Tgt Ion: 95 Resp: 249981

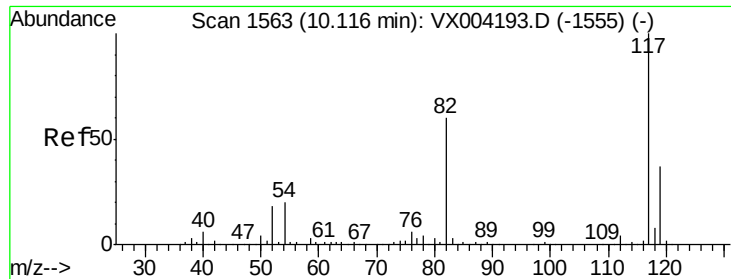
Ion Ratio Lower Upper

95 100

174 92.9 0.0 185.2

176 88.6 0.0 178.6

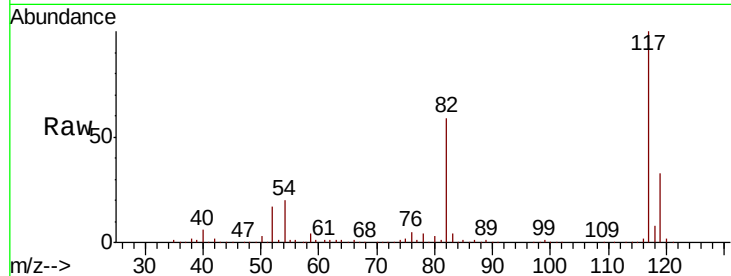




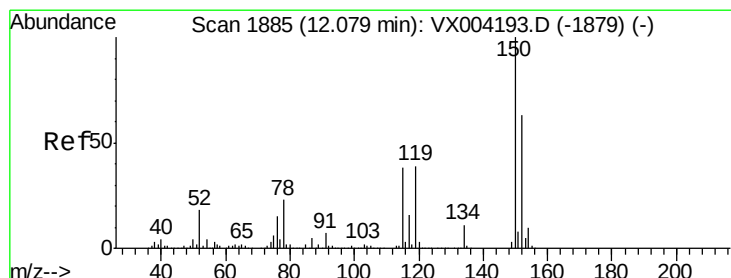
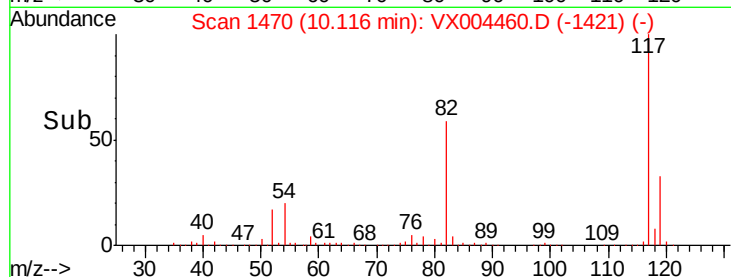
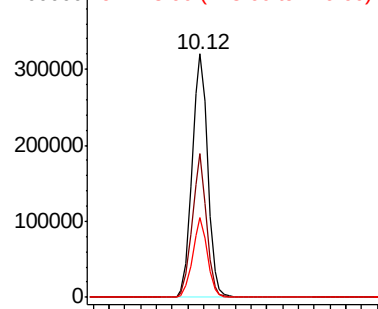
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

Instrument :
MSVOA_X
ClientSampleId :
HR-05-090718-A

Tot Ion:117 Resp: 442507
Ion Ratio Lower Upper
117 100
82 59.3 47.8 71.6
119 32.9 29.3 43.9

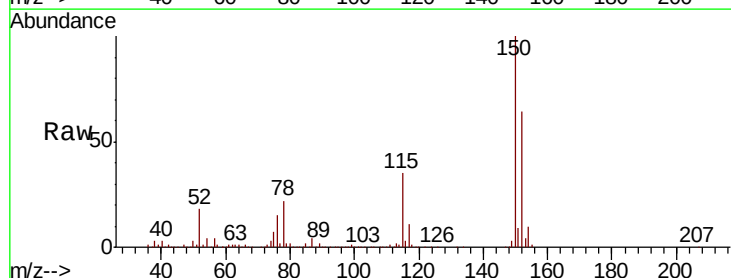


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

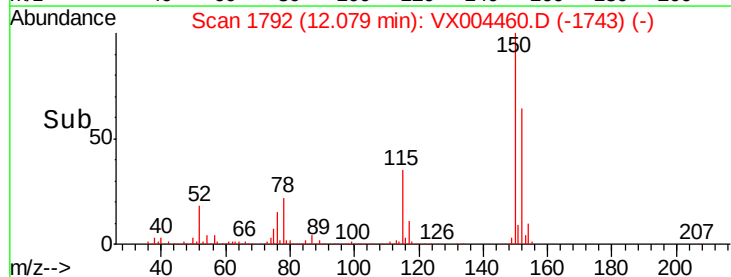
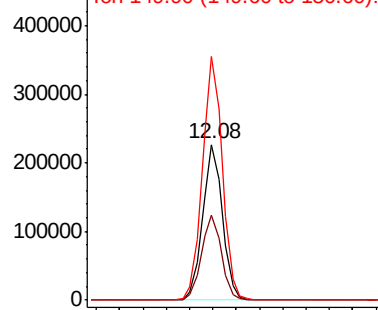


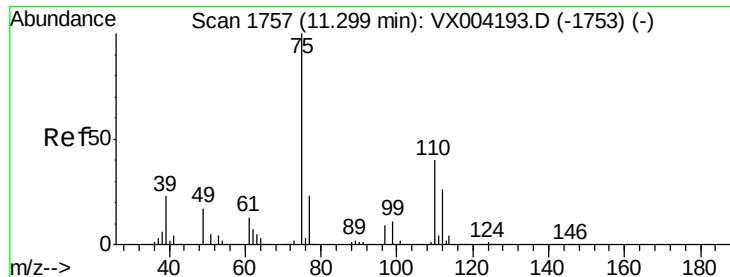
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004460.D
Acq: 10 Sep 2018 20:21

Tgt Ion:152 Resp: 266422
Ion Ratio Lower Upper
152 100
115 55.0 39.0 117.0
150 158.2 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: 21.66 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

Instrument :

MSVOA_X

ClientSampleId :

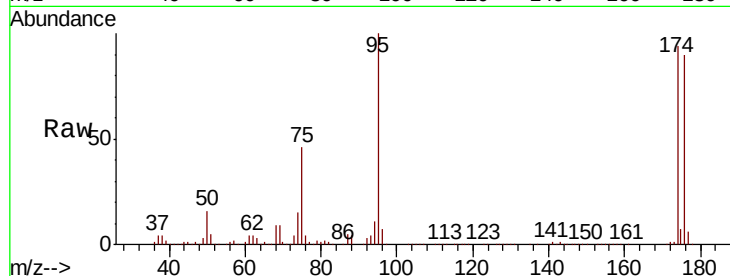
HR-05-090718-A

Tot Ion: 75 Resp: 117349

Ion Ratio Lower Upper

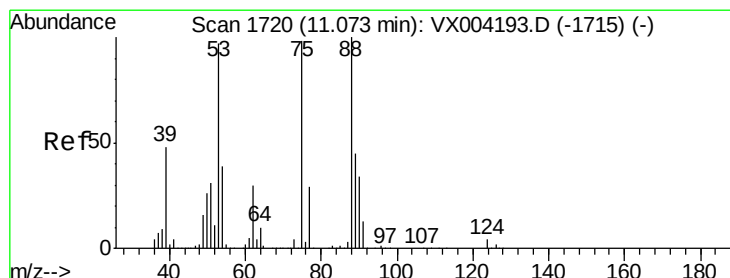
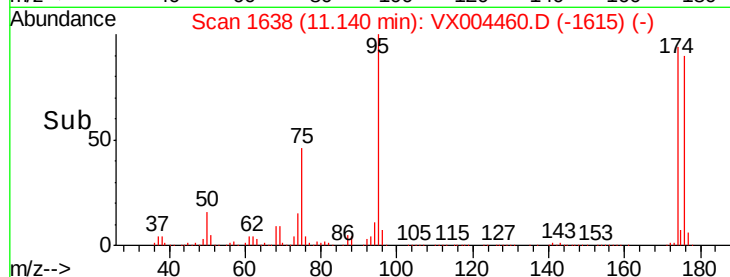
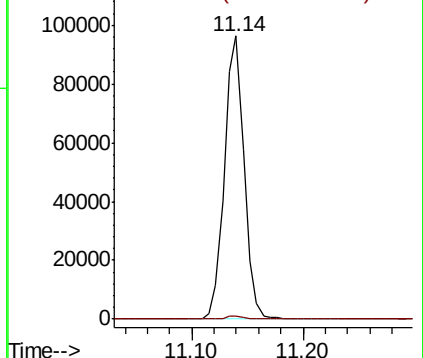
75 100

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: 70.27 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004460.D

Acq: 10 Sep 2018 20:21

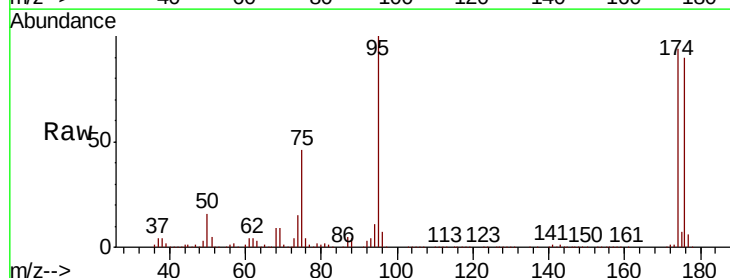
Tgt Ion: 75 Resp: 117349

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

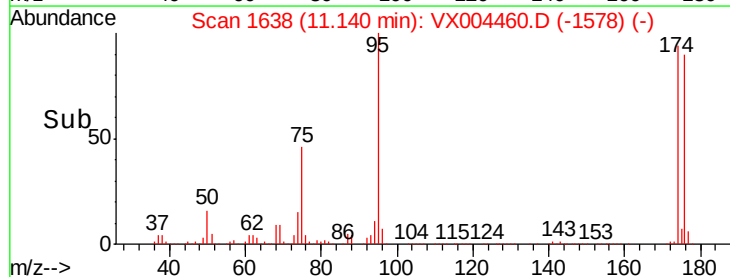
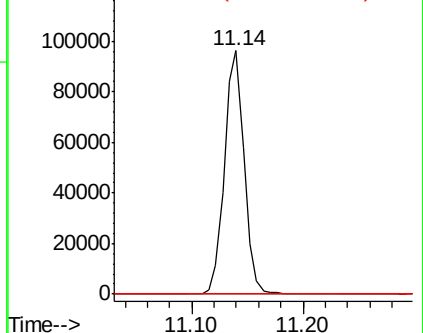
89 0.0 37.2 55.8#

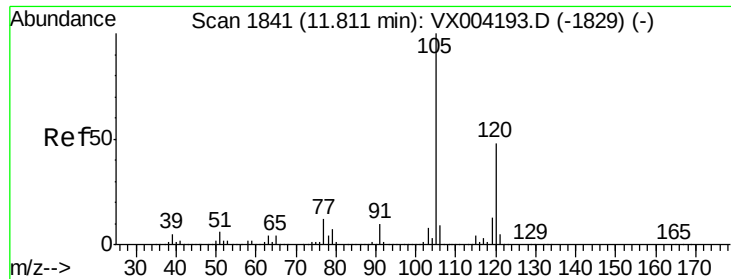


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

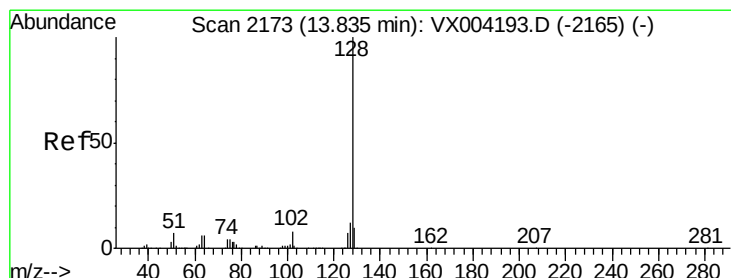
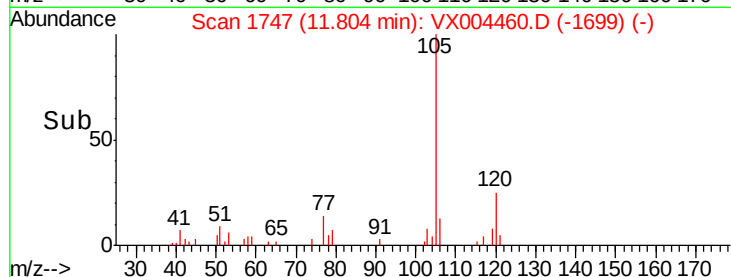
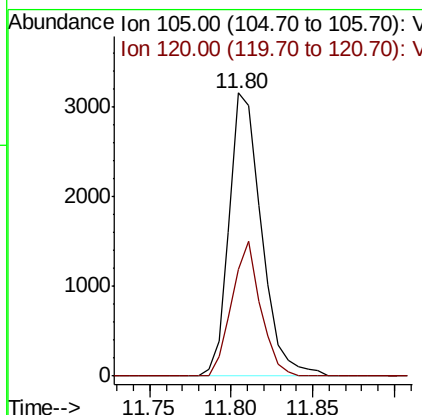
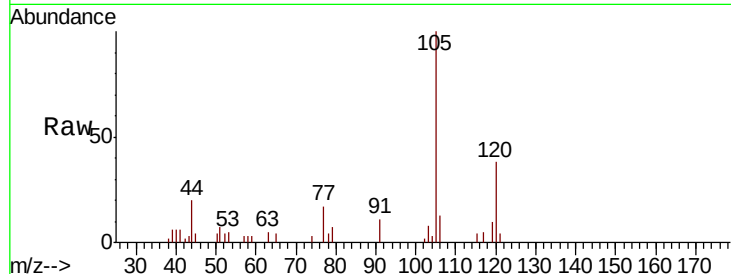




#84
 1,2,4-Trimethylbenzene
 Concen: 0.29 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.01 min
 Lab File: VX004460.D
 Acq: 10 Sep 2018 20:21

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-A

Tot Ion:105 Resp: 4359
 Ion Ratio Lower Upper
 105 100
 120 42.3 23.2 69.6



#95
 Naphthalene
 Concen: 5.83 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX004460.D
 Acq: 10 Sep 2018 20:21

Tgt Ion:128 Resp: 101419
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.2 15.2
 129 11.0 8.6 12.8

