

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004512.D
 Acq On : 13 Sep 2018 13:27
 Operator : JC/MD
 Sample : J4871-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 NB-08-091218

Quant Time: Sep 14 03:52:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	248847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	349804	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180036	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	166191	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	5.50	113	148596	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
50) Toluene-d8	8.72	98	499059	46.49	ug/l	0.00
Spiked Amount			Recovery	=	92.98%	
62) 4-Bromofluorobenzene	11.14	95	172346	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	

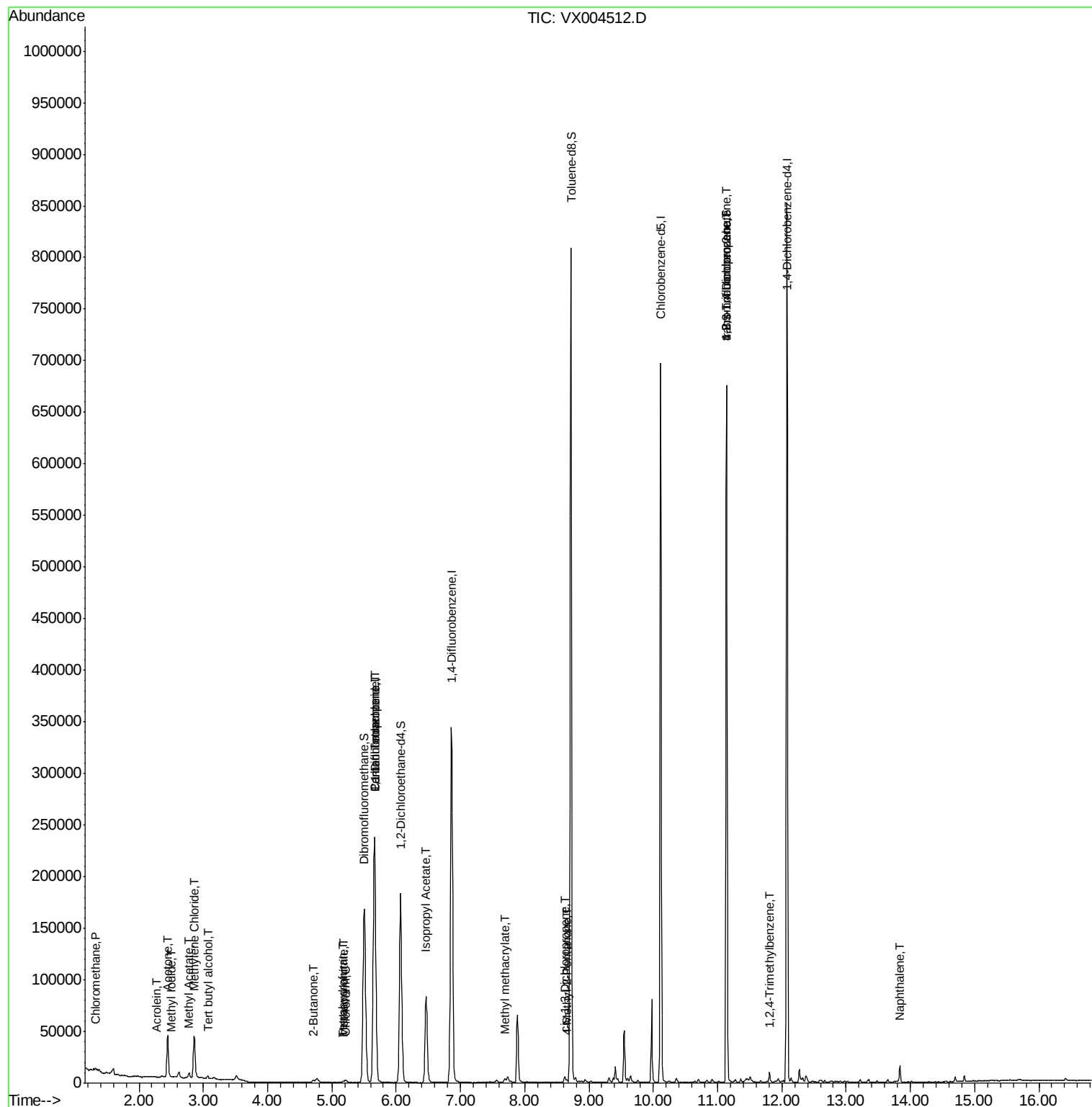
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	685	0.21	ug/l	100
5) Bromomethane	1.65	94	1100	Below Cal	#	76
10) Methyl Iodide	2.51	142	943	4.52	ug/l	96
11) Tert butyl alcohol	3.07	59	2975	3.89	ug/l	# 92
13) Acrolein	2.28	56	99	0.33	ug/l	# 1
16) Acetone	2.45	43	43155	27.56	ug/l	96
18) Methyl Acetate	2.78	43	5519	1.26	ug/l	100
20) Methylene Chloride	2.85	84	19708	6.13	ug/l	97
25) 2-Butanone	4.71	43	4435	1.78	ug/l	# 88
29) Tetrahydrofuran	5.17	42	991	0.66	ug/l	# 45
30) Chloroform	5.21	83	2636	0.50	ug/l	94
36) 1,1-Dichloropropene	5.67	75	16173	3.81	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	21388	5.16	ug/l	# 16
41) Methacrylonitrile	5.17	41	823	0.31	ug/l	# 37
43) Isopropyl Acetate	6.46	43	108094	16.85	ug/l	97
48) Methyl methacrylate	7.69	41	5245	1.65	ug/l	# 20
51) 4-Methyl-2-Pentanone	8.65	43	1182	0.26	ug/l	# 76
54) cis-1,3-Dichloropropene	8.62	75	922	0.21	ug/l	# 66
76) 1,2,3-Trichloropropane	11.14	75	81575	22.52	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	81575	71.79	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	4556	0.45	ug/l	100
95) Naphthalene	13.83	128	10268	0.84	ug/l	99

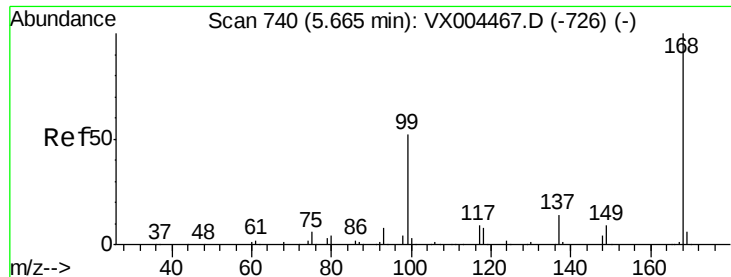
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Instrument :

MSVOA_X

ClientSampleId :

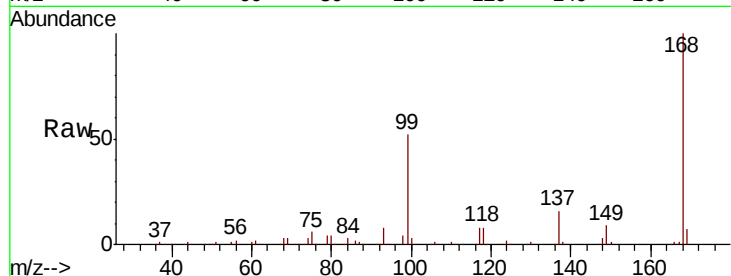
NB-08-091218

Tot Ion:168 Resp: 248847

Ion Ratio Lower Upper

168 100

99 52.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

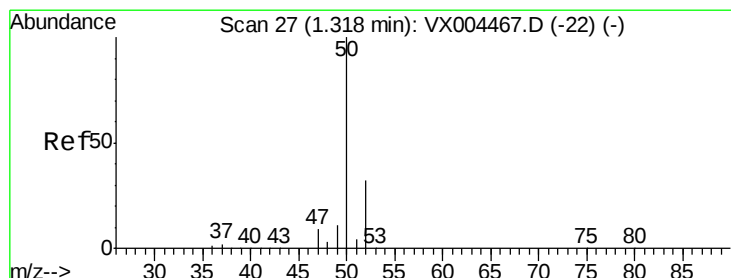
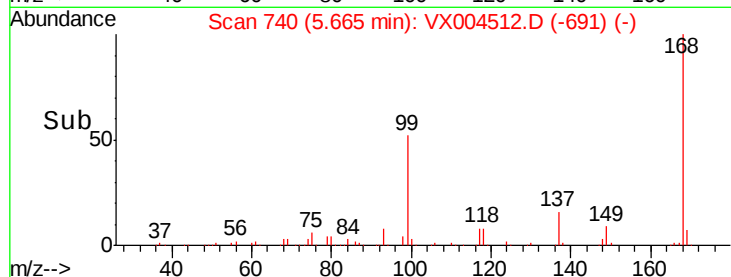
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX004512.D

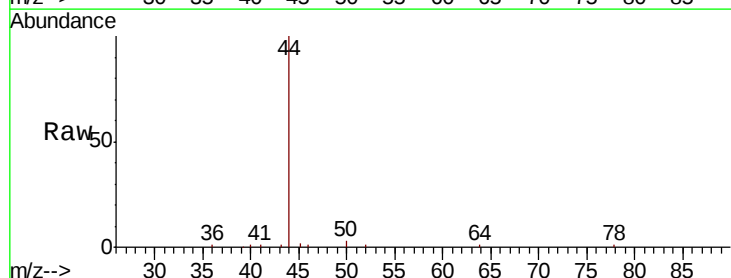
Acq: 13 Sep 2018 13:27

Tgt Ion: 50 Resp: 685

Ion Ratio Lower Upper

50 100

52 32.4 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

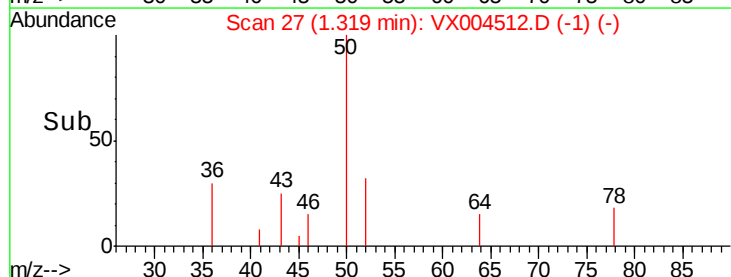
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Instrument :

MSVOA_X

ClientSampleId :

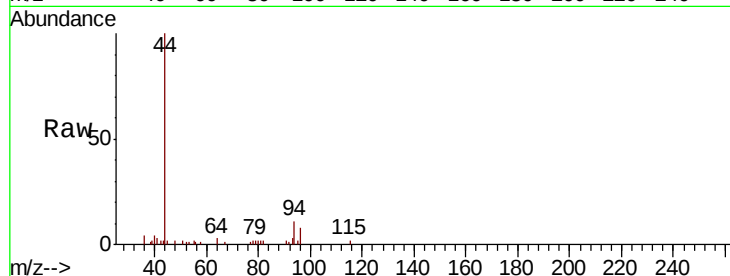
NB-08-091218

Tot Ion: 94 Resp: 1100

Ion Ratio Lower Upper

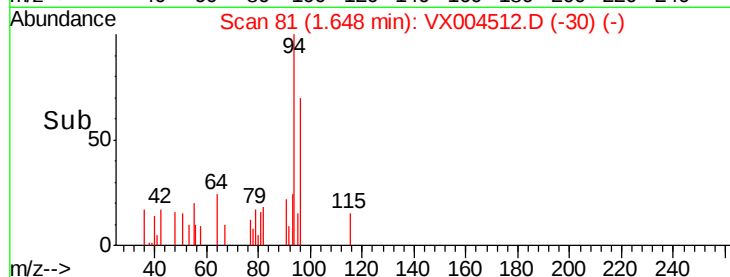
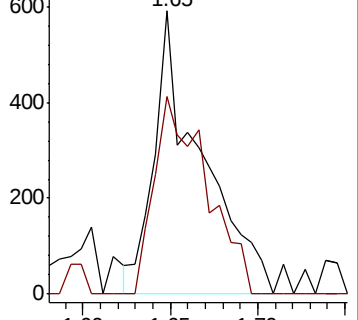
94 100

96 69.7 74.5 111.7#

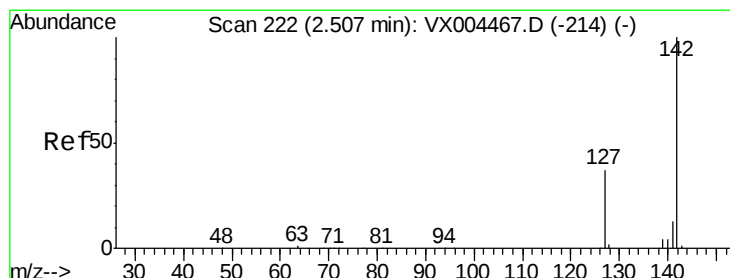


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.52 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

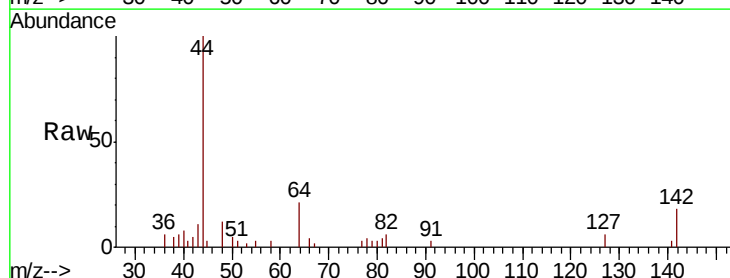
Tgt Ion: 142 Resp: 943

Ion Ratio Lower Upper

142 100

127 40.1 33.8 50.6

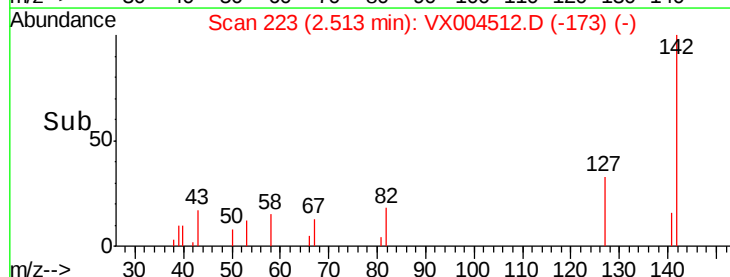
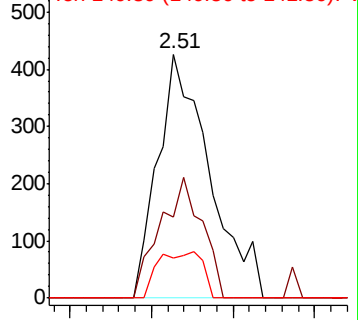
141 16.2 11.4 17.0



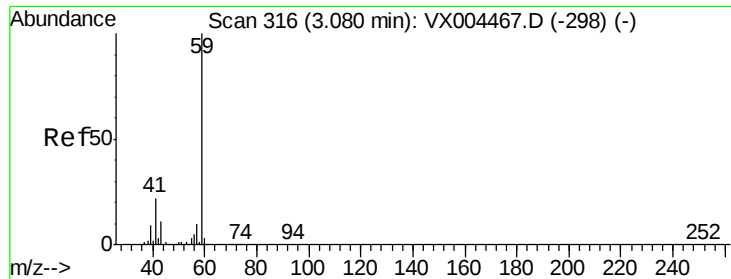
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



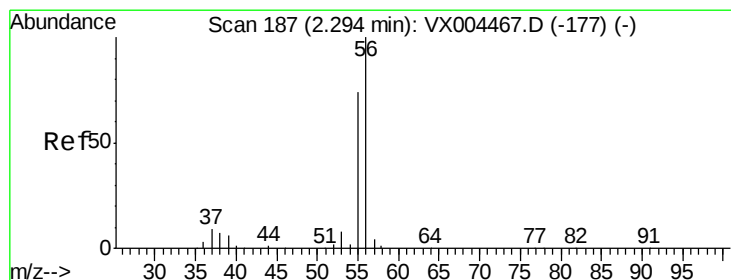
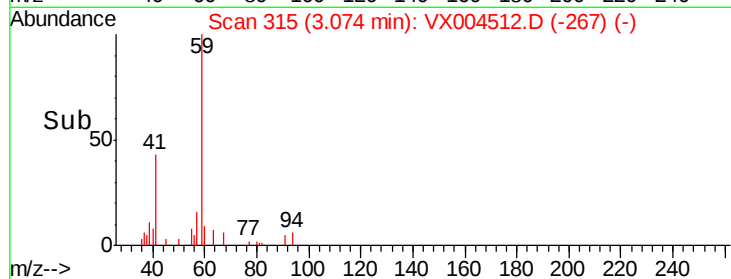
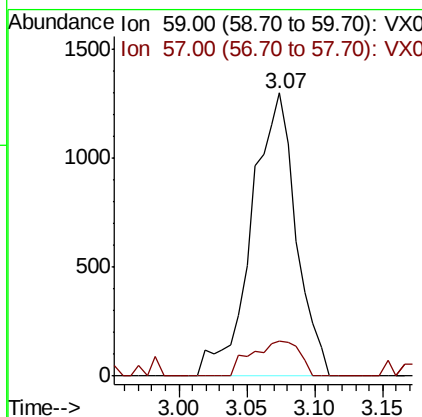
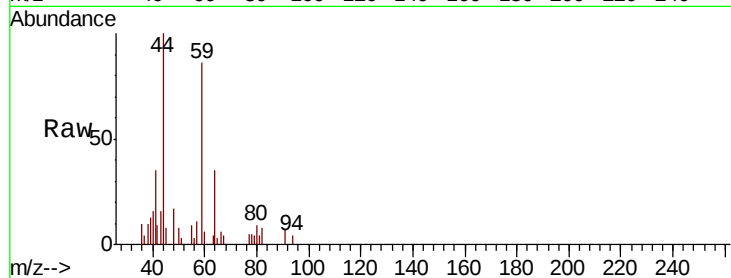
Time-->



#11
Tert butyl alcohol
Concen: 3.89 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

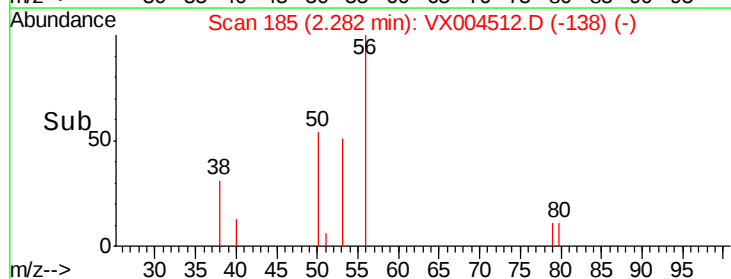
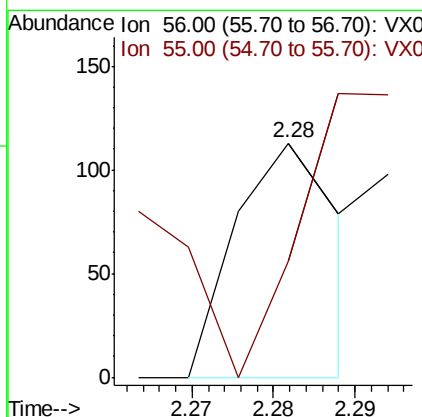
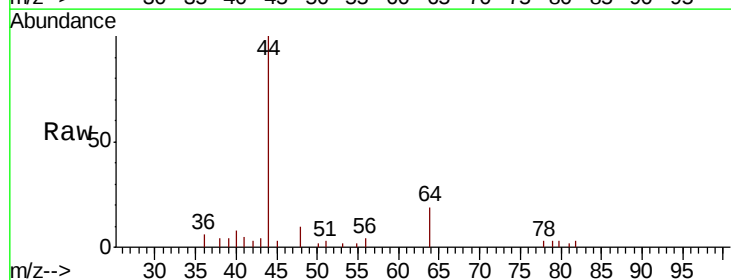
Instrument :
MSVOA_X
ClientSampled :
NB-08-091218

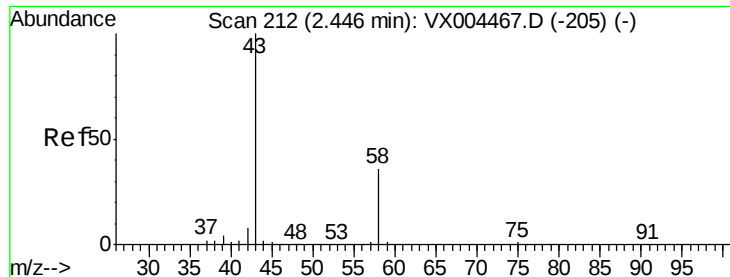
Tot Ion: 59 Resp: 2975
Ion Ratio Lower Upper
59 100
57 13.3 8.2 12.4#



#13
Acrolein
Concen: 0.33 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

Tgt Ion: 56 Resp: 99
Ion Ratio Lower Upper
56 100
55 165.7 54.7 82.1#





#16

Acetone

Concen: 27.56 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Instrument :

MSVOA_X

ClientSampleId :

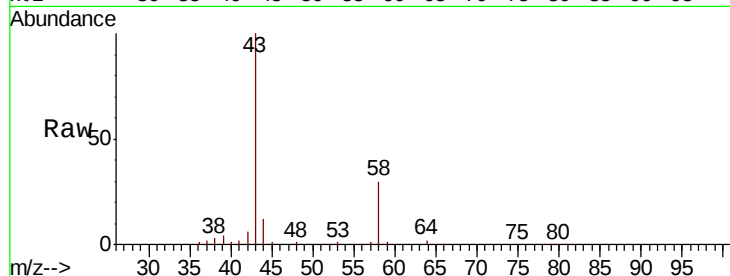
NB-08-091218

Tot Ion: 43 Resp: 43155

Ion Ratio Lower Upper

43 100

58 30.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

30000

25000

20000

15000

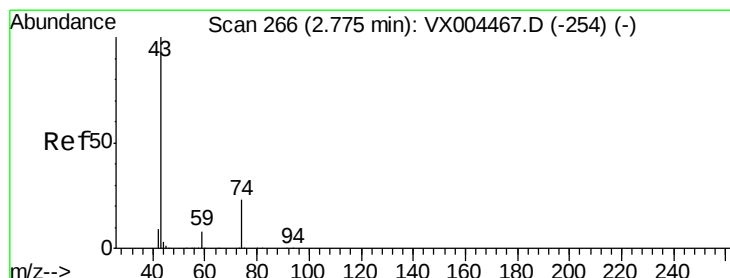
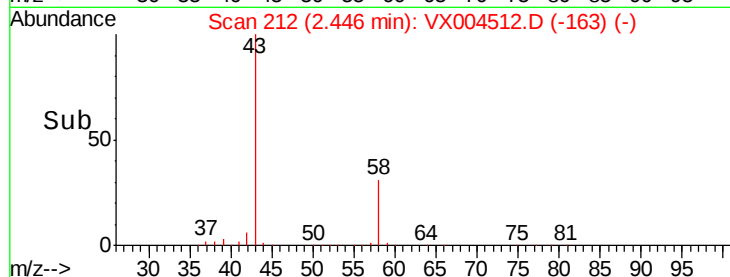
10000

5000

0

Time-->

2.40 2.50



#18

Methyl Acetate

Concen: 1.26 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004512.D

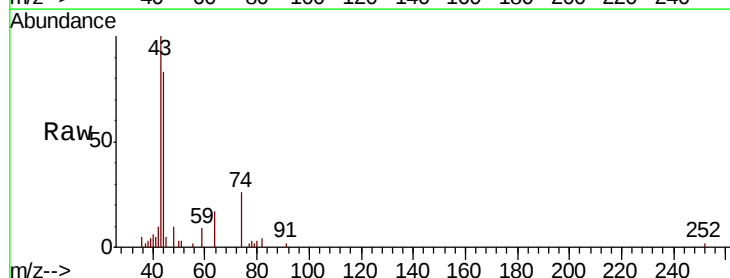
Acq: 13 Sep 2018 13:27

Tgt Ion: 43 Resp: 5519

Ion Ratio Lower Upper

43 100

74 24.4 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

3000

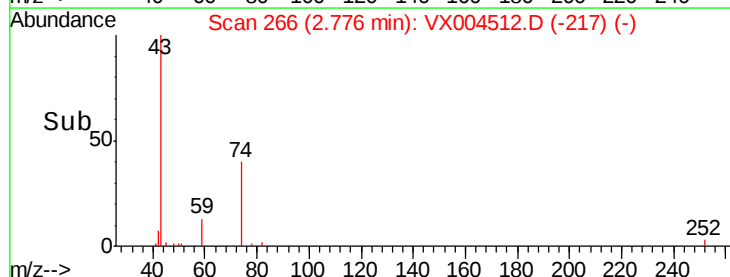
2000

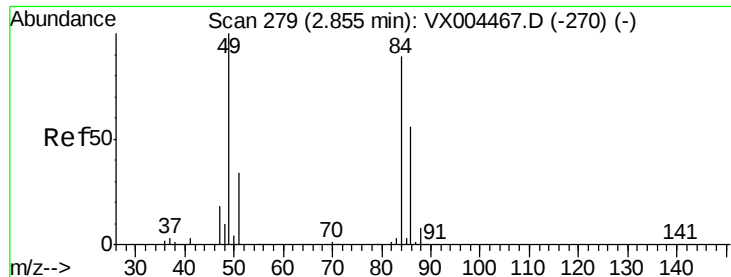
1000

0

Time-->

2.70 2.75 2.80 2.85

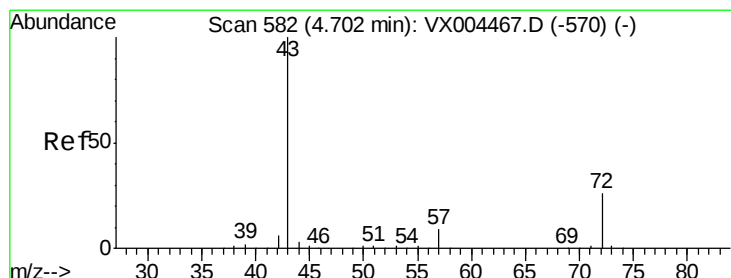
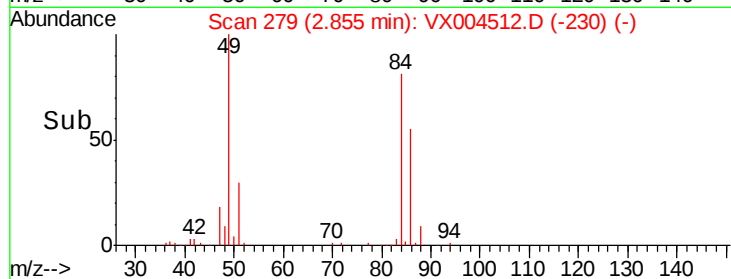
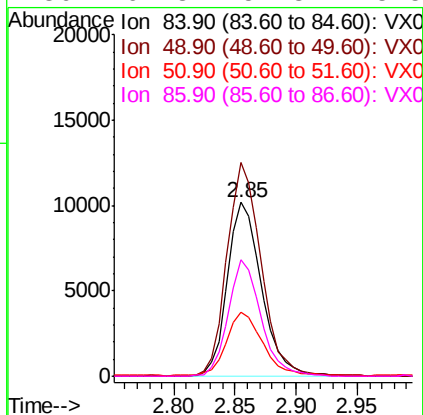
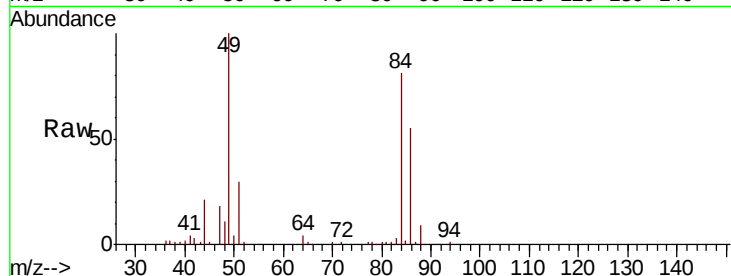




#20
Methvlene Chloride
Concen: 6.13 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

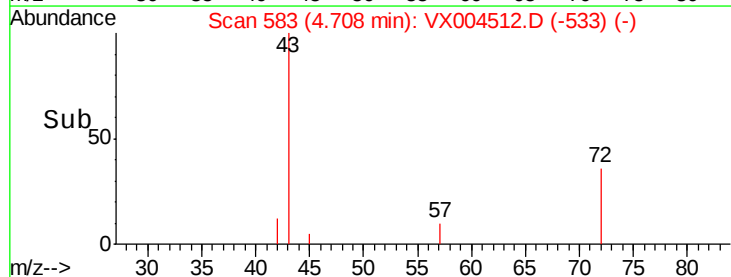
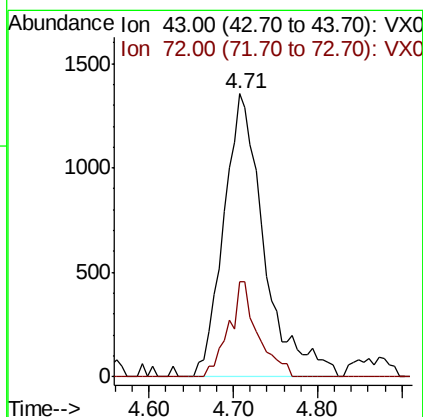
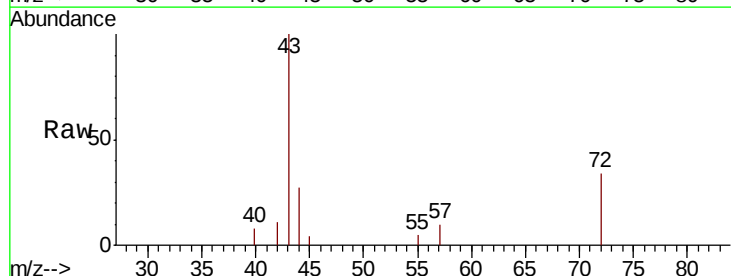
Instrument :
MSVOA_X
ClientSampleId :
NB-08-091218

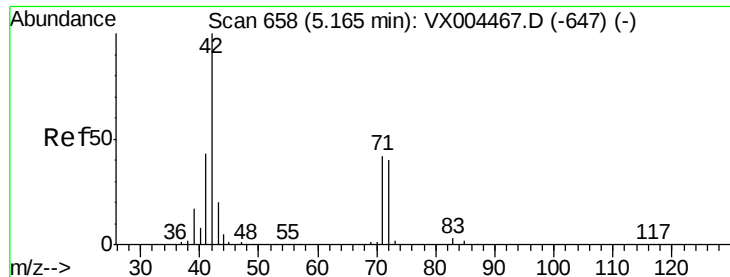
Tot Ion:	84	Resp:	19708
Ion	Ratio	Lower	Upper
84	100		
49	122.8	101.2	151.8
51	35.9	29.5	44.3
86	67.3	52.3	78.5



#25
2-Butanone
Concen: 1.78 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

Tgt Ion:	43	Resp:	4435
Ion	Ratio	Lower	Upper
43	100		
72	33.7	22.0	33.0#





#29

Tetrahydrofuran

Concen: 0.66 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Instrument :

MSVOA_X

ClientSampleId :

NB-08-091218

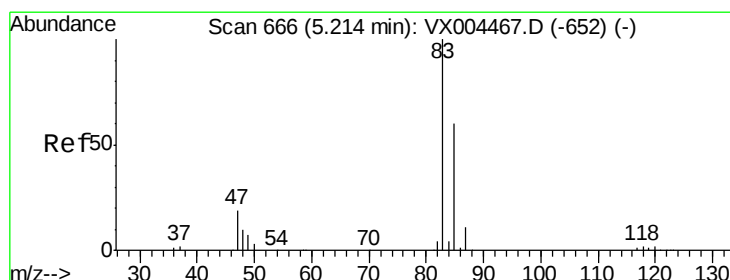
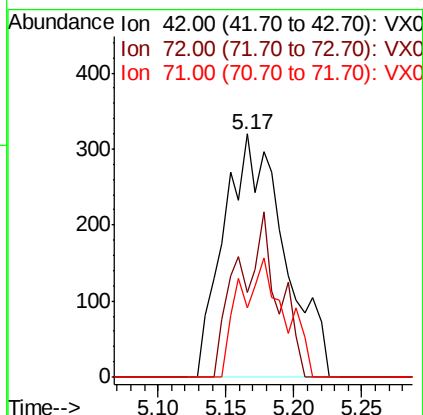
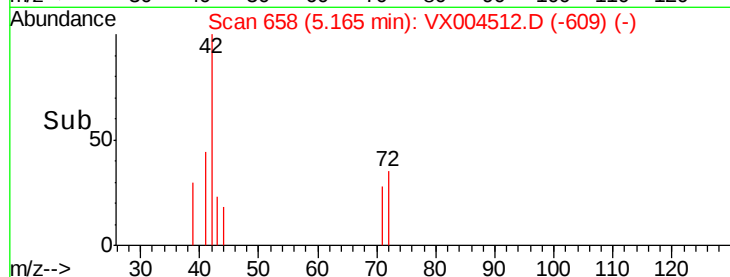
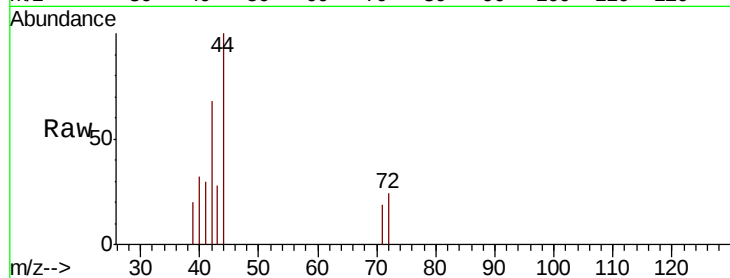
Tot Ion: 42 Resp: 991

Ion Ratio Lower Upper

42 100

72 17.8 37.4 56.0#

71 0.0 34.5 51.7#



#30

Chloroform

Concen: 0.50 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX004512.D

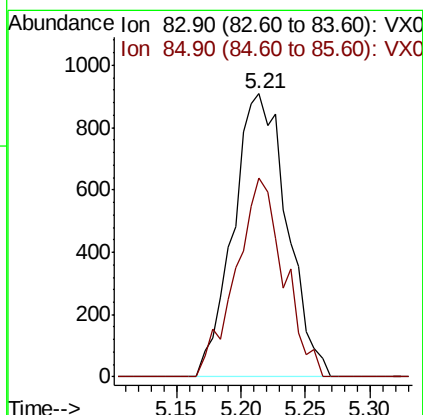
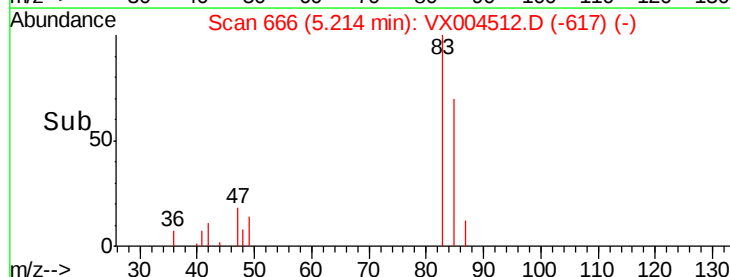
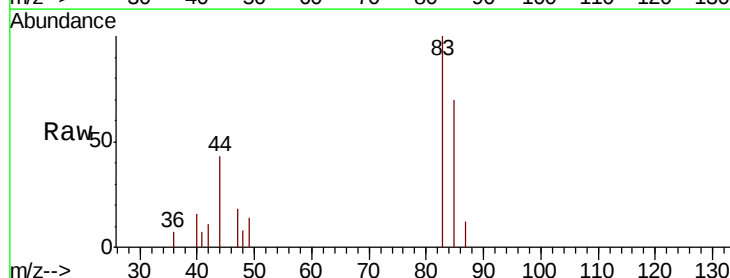
Acq: 13 Sep 2018 13:27

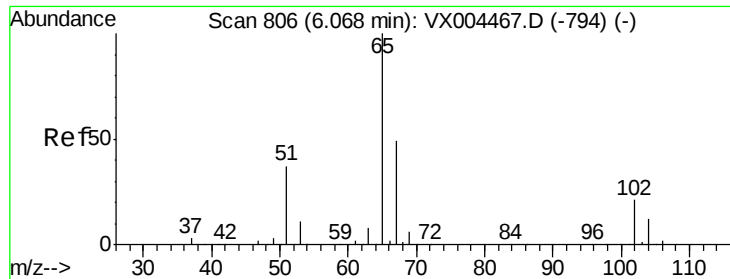
Tgt Ion: 83 Resp: 2636

Ion Ratio Lower Upper

83 100

85 70.4 52.6 79.0

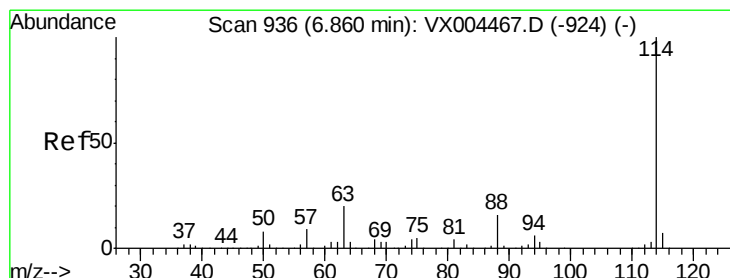
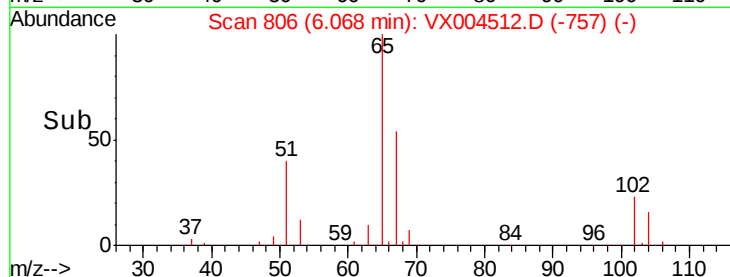
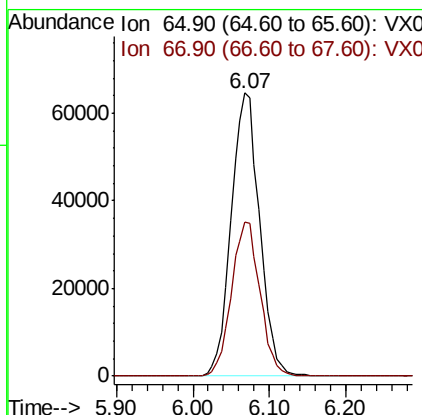
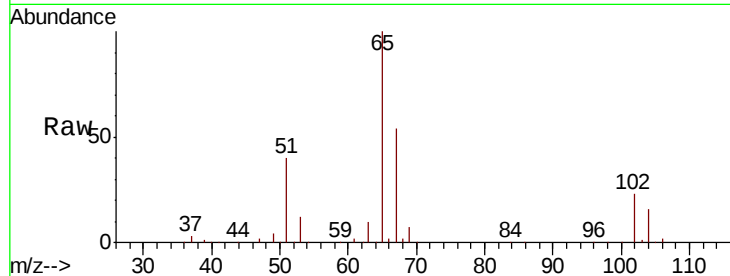




#33
 1,2-Dichloroethane-d4
 Concen: 51.79 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

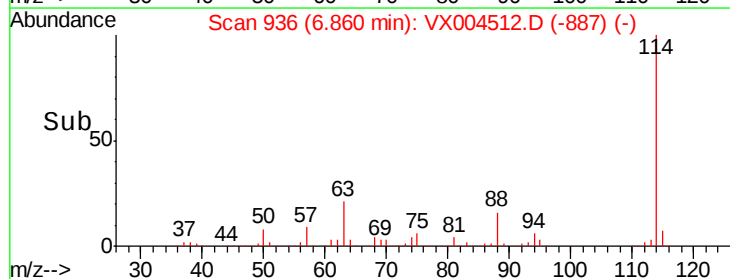
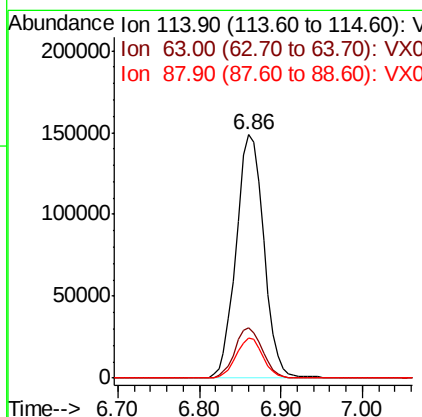
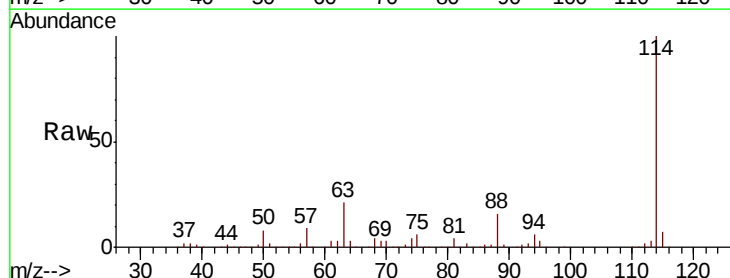
Instrument :
 MSVOA_X
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 NB-08-091218

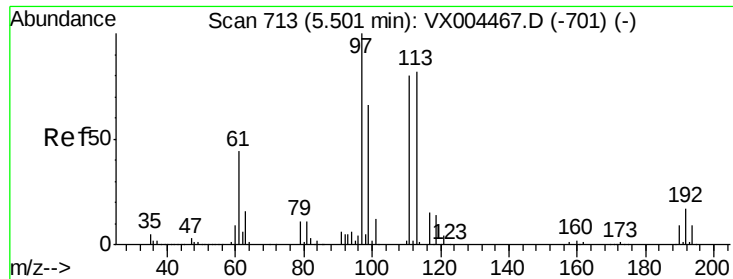
Tot Ion: 65 Resp: 166191
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Tgt Ion: 114 Resp: 349804
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 16.4 0.0 30.4

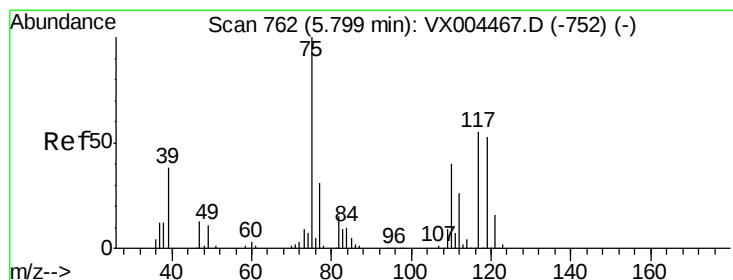
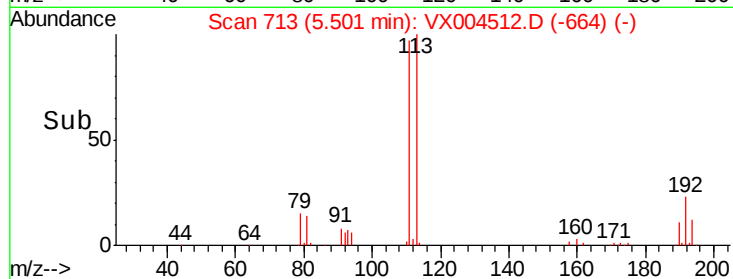
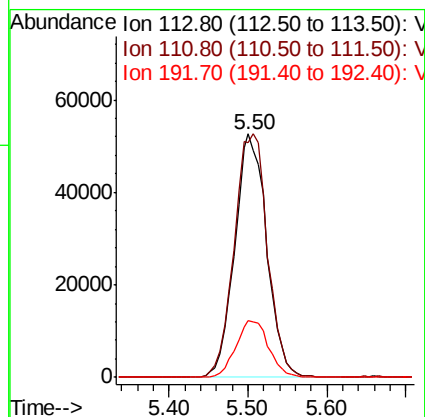
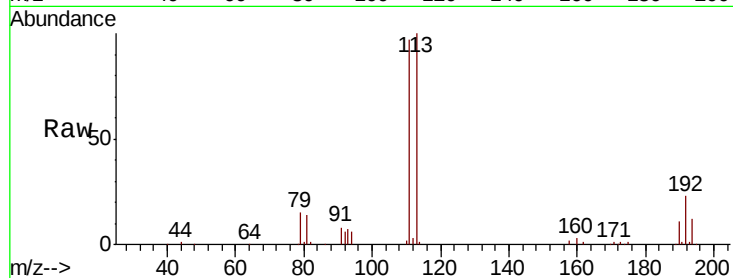




#35
 Dibromofluoromethane
 Concen: 46.42 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

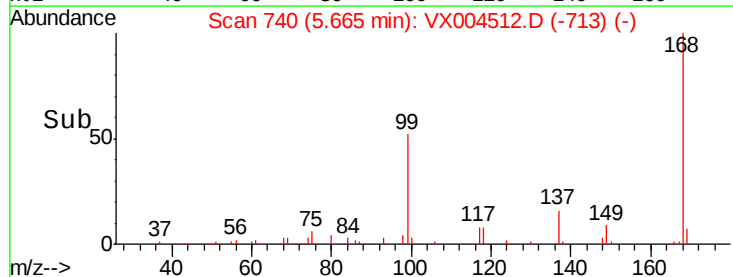
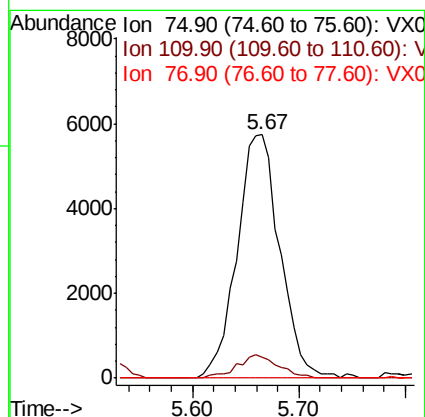
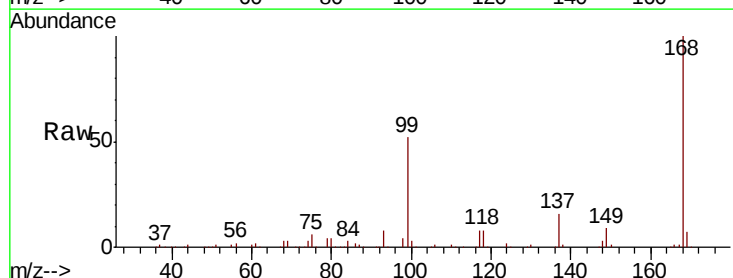
Instrument :
 MSVOA_X
 ClientSampleId :
 NB-08-091218

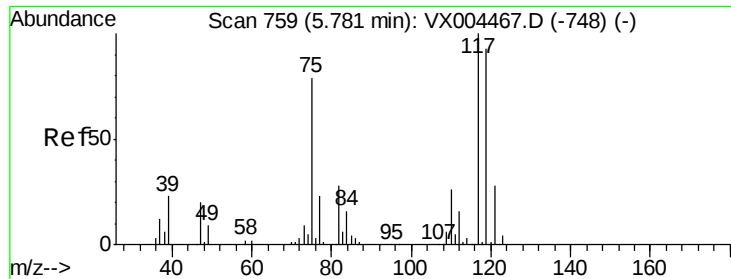
Tot Ion:113 Resp: 148596
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.4 123.6
 192 23.9 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.81 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Tgt Ion: 75 Resp: 16173
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.16 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Instrument :

MSVOA_X

ClientSampleId :

NB-08-091218

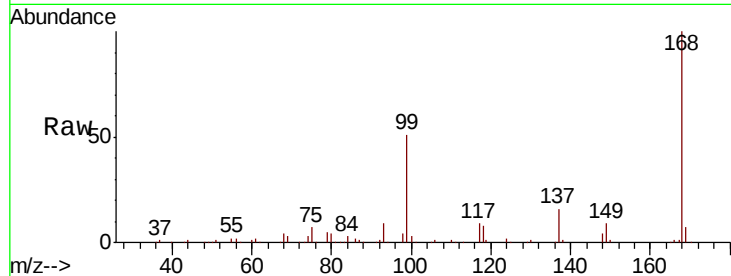
Tot Ion:117 Resp: 21388

Ion Ratio Lower Upper

117 100

119 6.9 78.8 118.2#

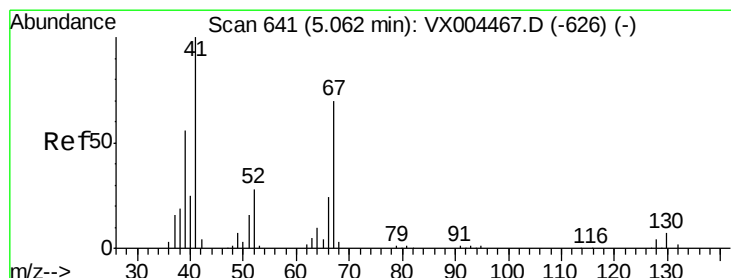
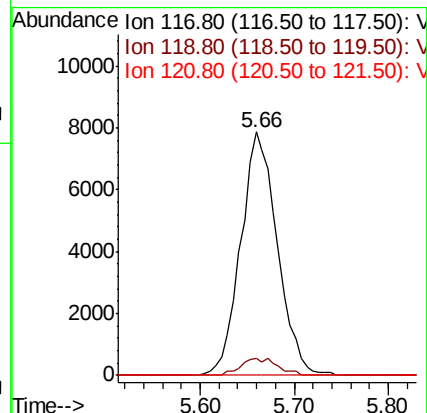
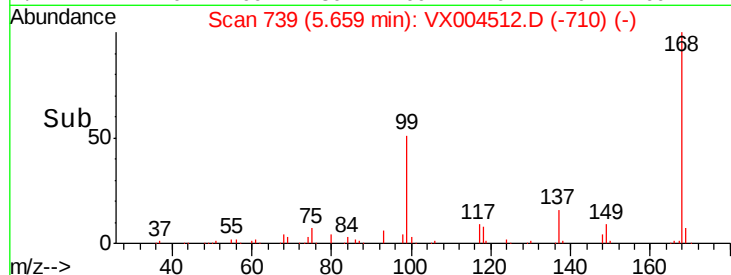
121 0.0 24.9 37.3#



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: 0.31 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.11 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Tgt Ion: 41 Resp: 823

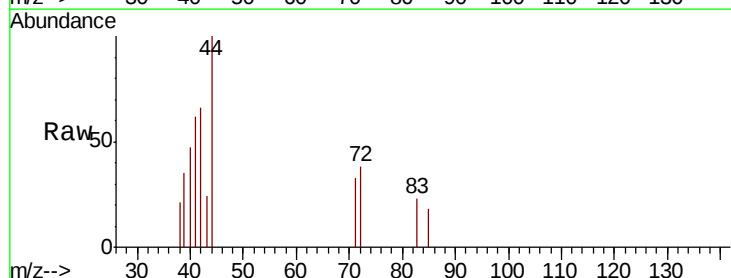
Ion Ratio Lower Upper

41 100

39 28.8 42.4 63.6#

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

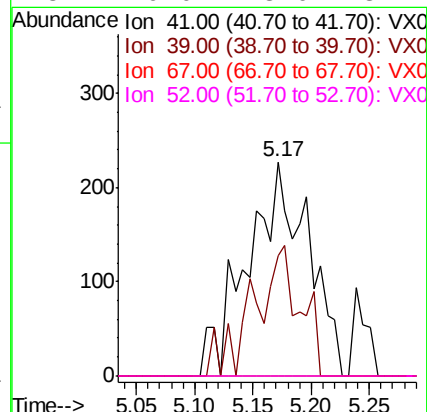
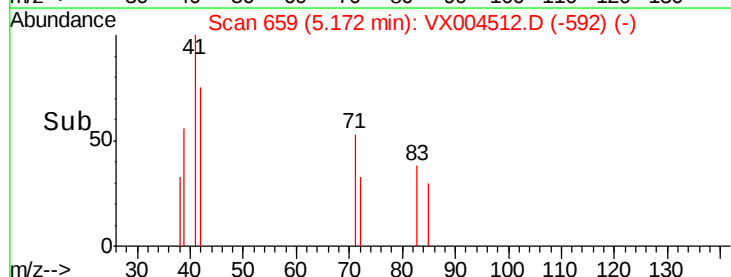


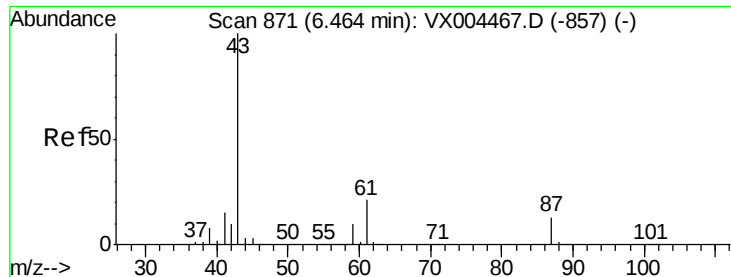
Abundance Ion 41.00 (40.70 to 41.70): VX0

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



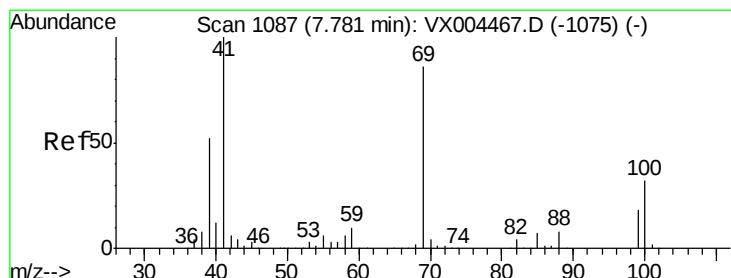
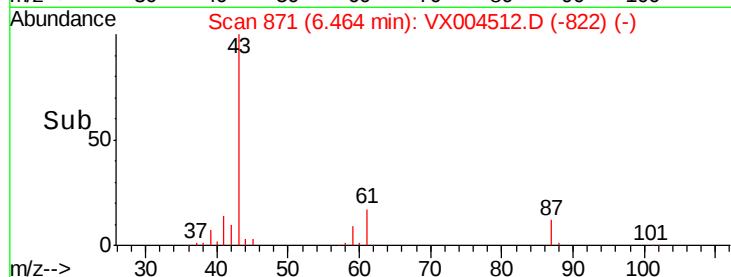
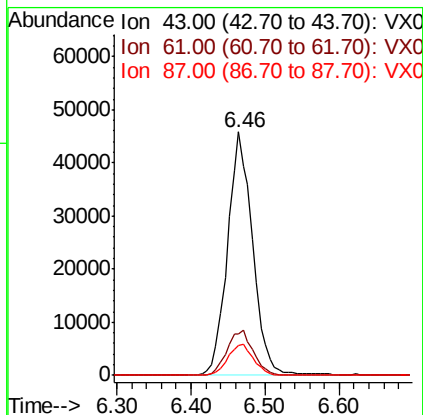
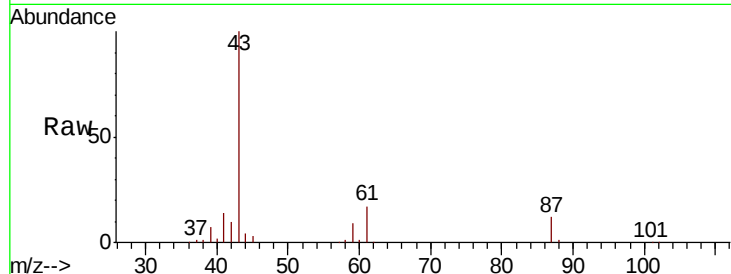


#43

Isopropyl Acetate
 Concen: 16.85 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.00 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Instrument :
 MSVOA_X
 ClientSampleId :
 NB-08-091218

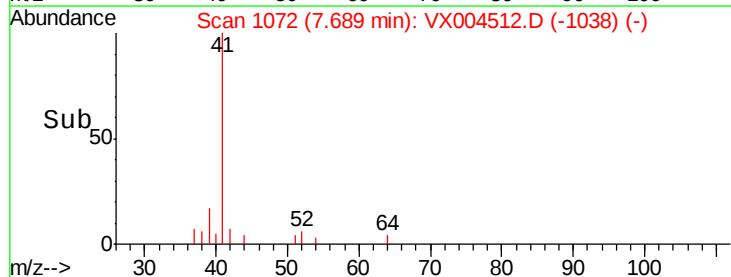
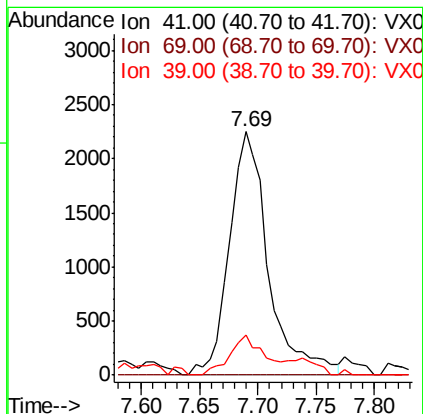
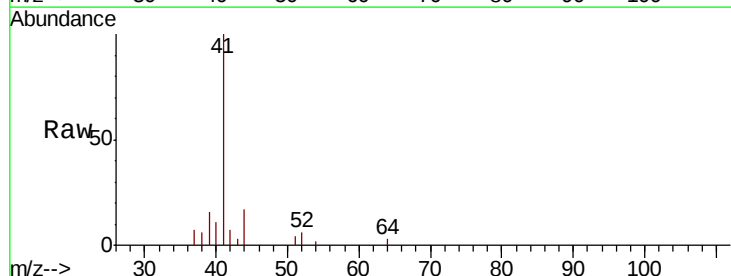
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.5	17.0	25.4
87	13.1	11.4	17.2

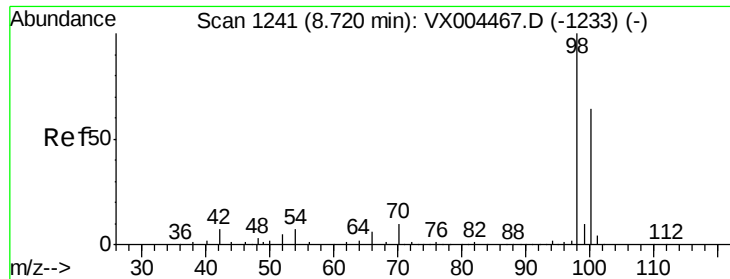


#48

Methyl methacrylate
 Concen: 1.65 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	70.2	105.4#
39	14.3	42.7	64.1#

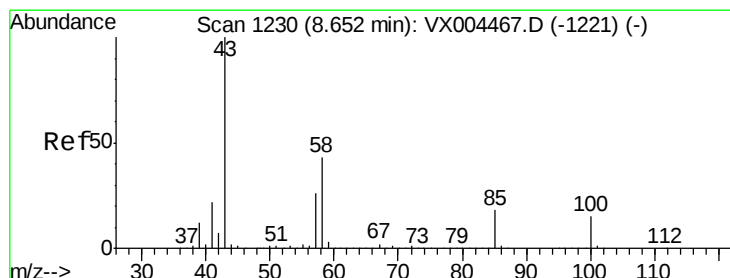
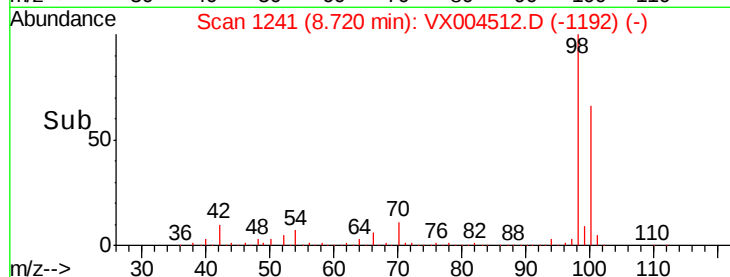
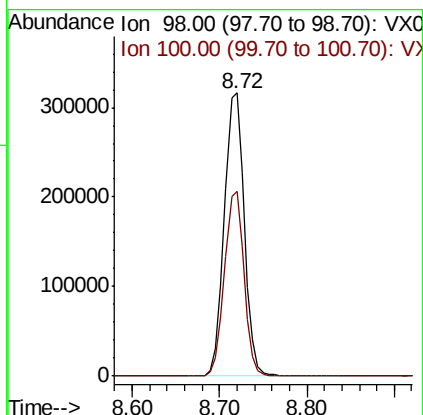
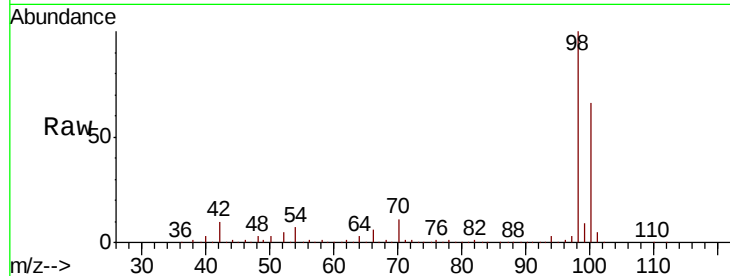




#50
Toluene-d8
Concen: 46.49 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

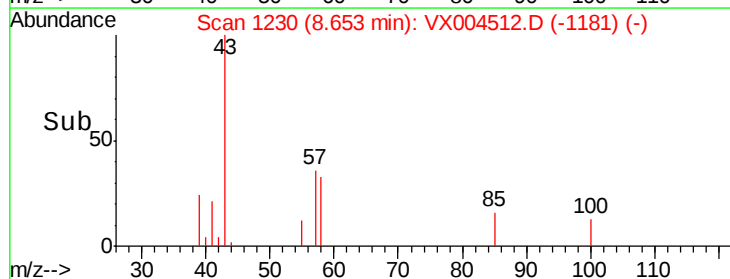
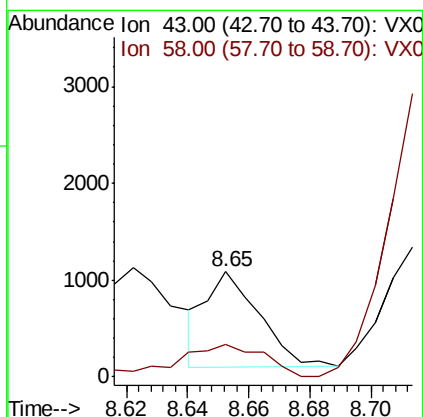
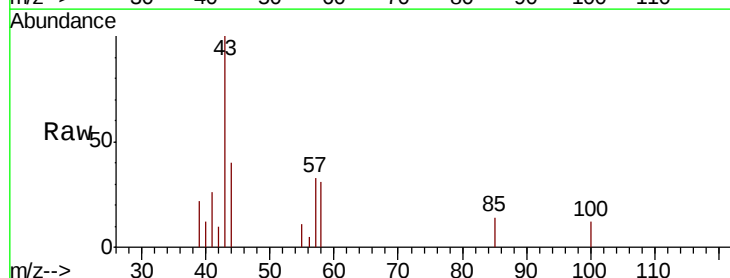
Instrument :
MSVOA_X
ClientSampleId :
NB-08-091218

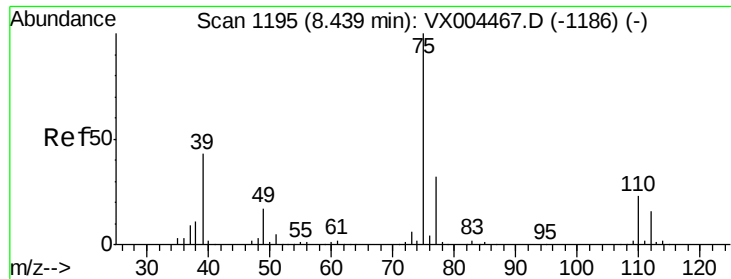
Tot Ion: 98 Resp: 499059
Ion Ratio Lower Upper
98 100
100 64.1 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.00 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

Tgt Ion: 43 Resp: 1182
Ion Ratio Lower Upper
43 100
58 56.6 33.1 49.7#





#54

cis-1,3-Dichloropropene

Concen: 0.21 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

Instrument :

MSVOA_X

ClientSampleId :

NB-08-091218

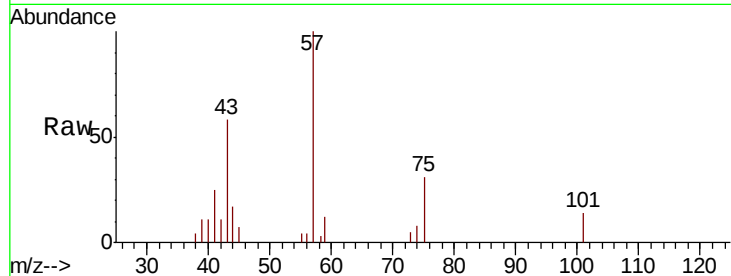
Tot Ion: 75 Resp: 922

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

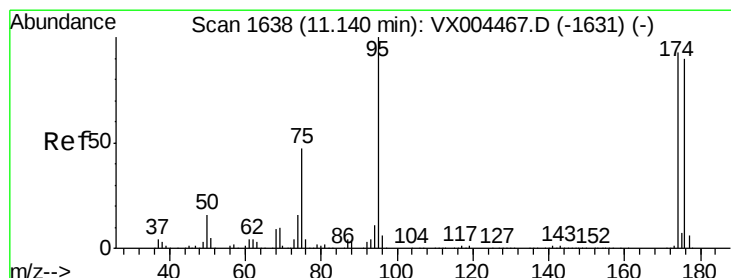
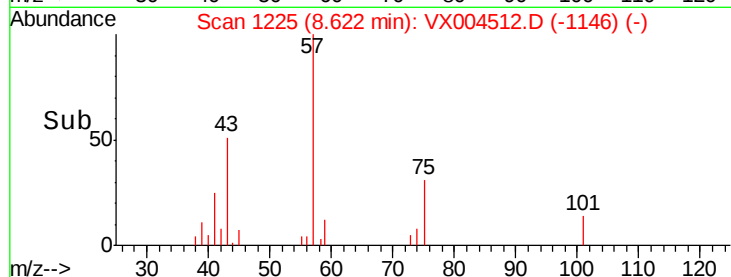
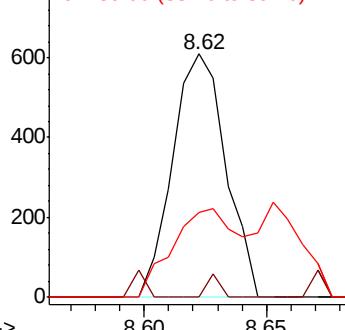
39 34.8 36.4 54.6#



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



#62

4-Bromofluorobenzene

Concen: 44.98 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004512.D

Acq: 13 Sep 2018 13:27

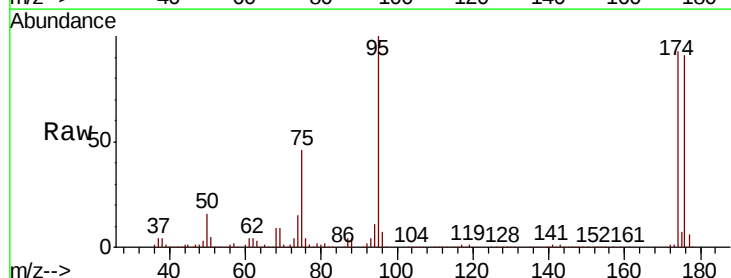
Tgt Ion: 95 Resp: 172346

Ion Ratio Lower Upper

95 100

174 92.0 0.0 185.2

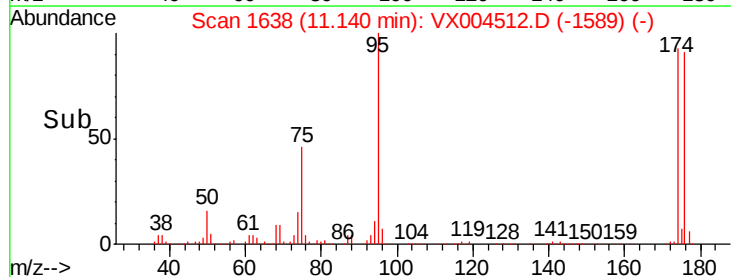
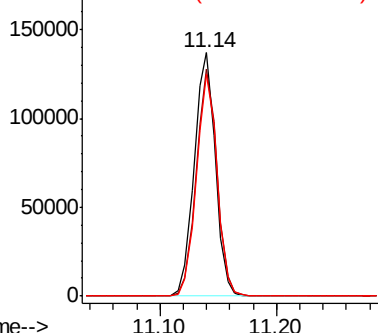
176 88.8 0.0 178.6

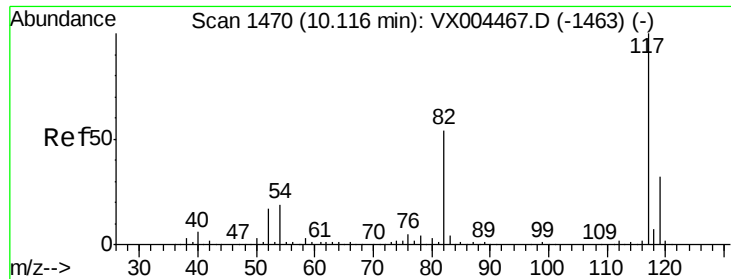


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

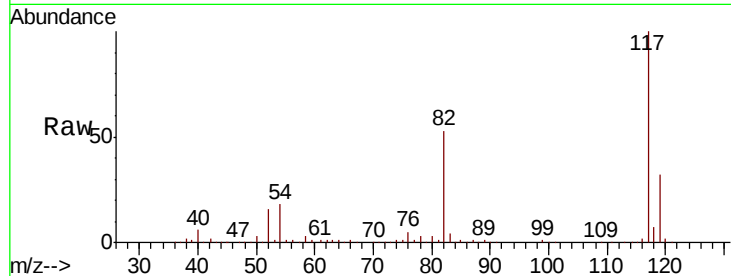




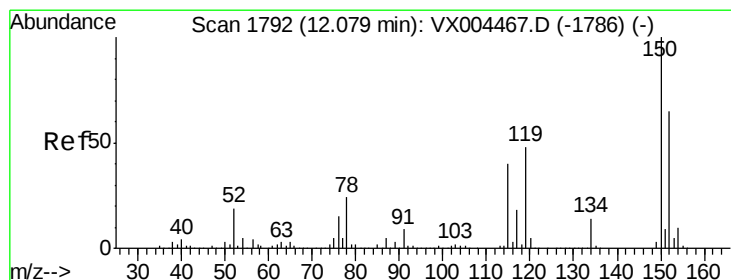
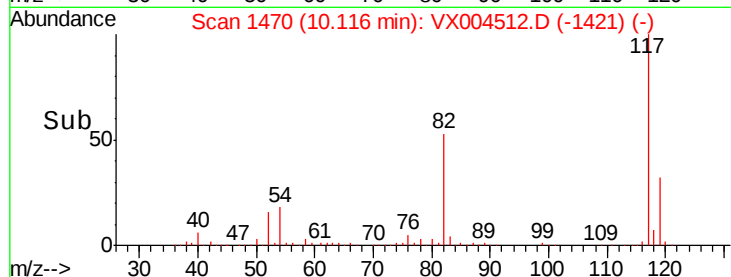
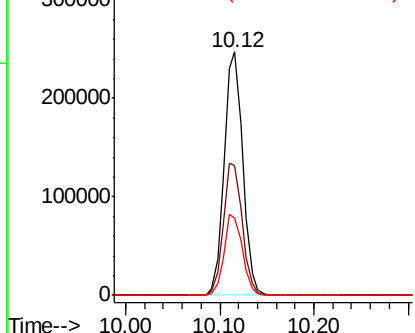
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

Instrument :
MSVOA_X
ClientSampleId :
NB-08-091218

Tot Ion:117 Resp: 337377
Ion Ratio Lower Upper
117 100
82 53.1 47.8 71.6
119 32.0 29.3 43.9

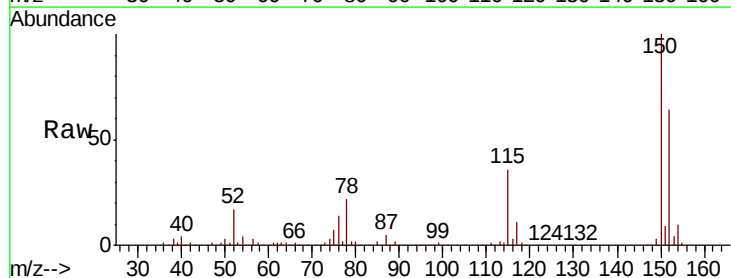


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

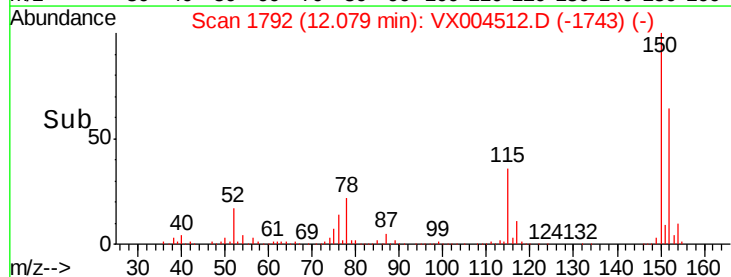
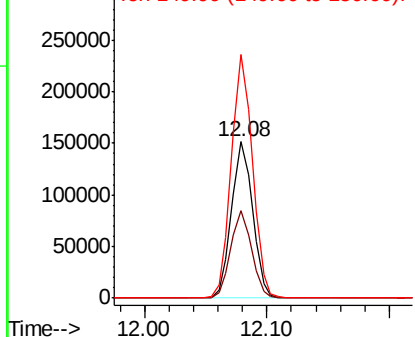


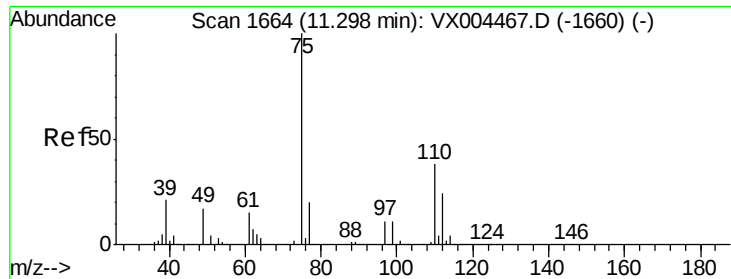
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004512.D
Acq: 13 Sep 2018 13:27

Tgt Ion:152 Resp: 180036
Ion Ratio Lower Upper
152 100
115 55.5 39.0 117.0
150 155.7 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

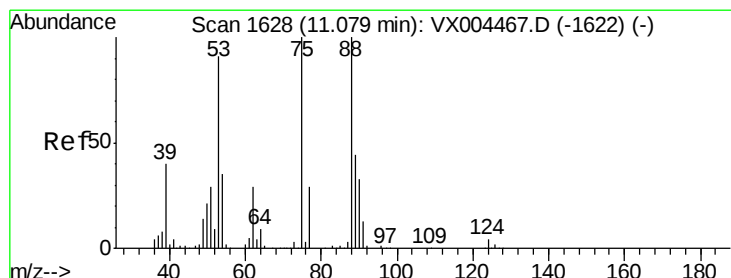
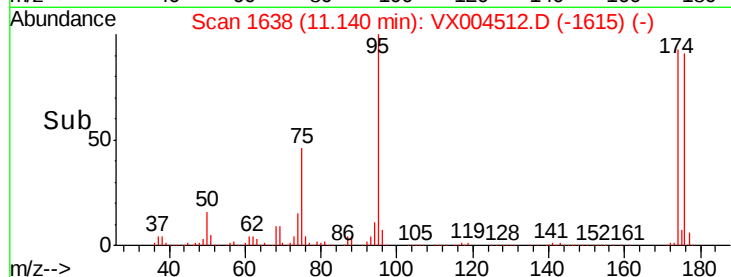
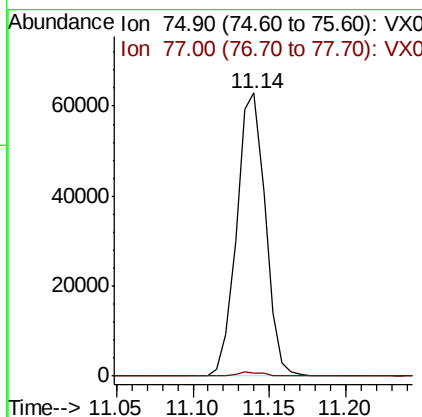
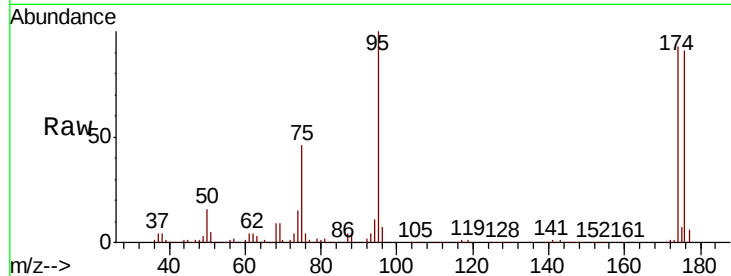




#76
 1,2,3-Trichloropropane
 Concen: 22.52 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

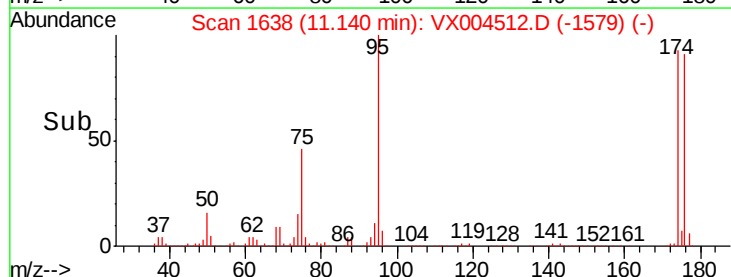
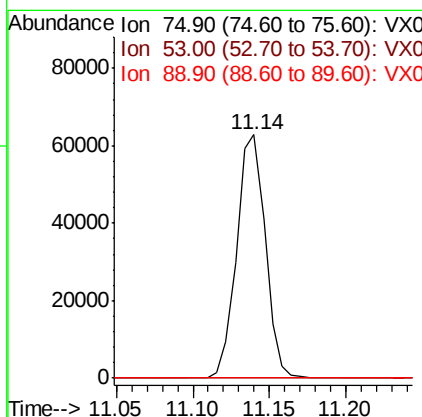
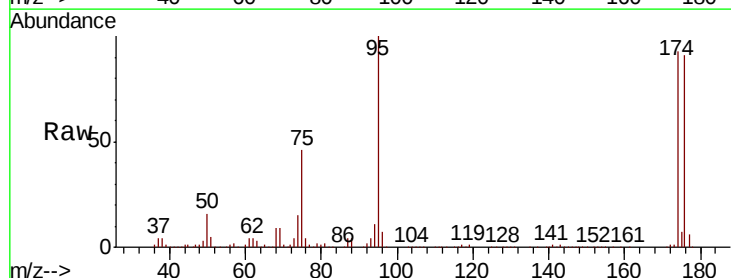
Instrument :
 MSVOA_X
 ClientSampleId :
 NB-08-091218

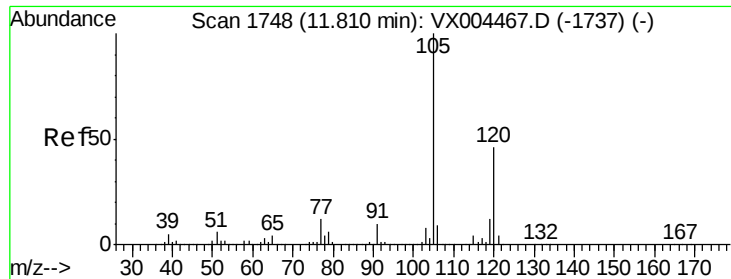
Tot Ion: 75 Resp: 81575
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.79 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Tgt Ion: 75 Resp: 81575
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

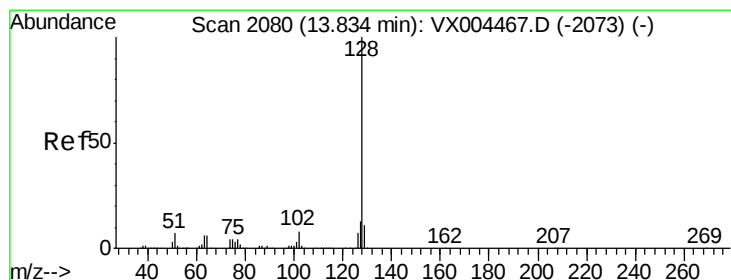
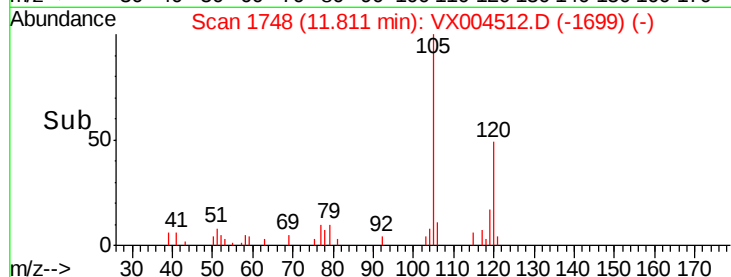
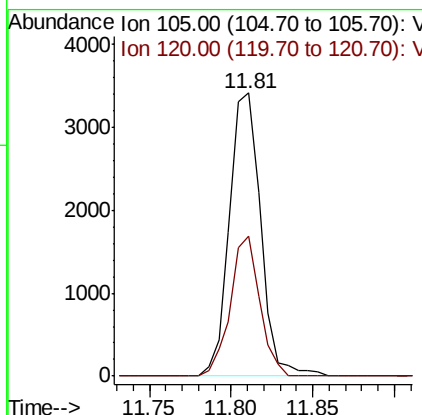
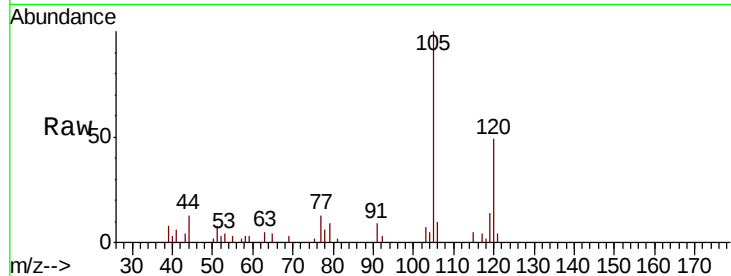




#84
 1,2,4-Trimethylbenzene
 Concen: 0.45 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Instrument :
 MSVOA_X
 ClientSampleId :
 NB-08-091218

Tot Ion:105 Resp: 4556
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.2 69.6



#95
 Naphthalene
 Concen: 0.84 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX004512.D
 Acq: 13 Sep 2018 13:27

Tgt Ion:128 Resp: 10268
 Ion Ratio Lower Upper
 128 100
 127 13.5 10.2 15.2
 129 11.0 8.6 12.8

