

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004515.D
 Acq On : 13 Sep 2018 14:48
 Operator : JC/MD
 Sample : J4873-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-STONE

Quant Time: Sep 14 03:53:40 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	241903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	338671	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181088	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	163130	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
35) Dibromofluoromethane	5.50	113	145566	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
50) Toluene-d8	8.72	98	506219	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	11.14	95	173680	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	

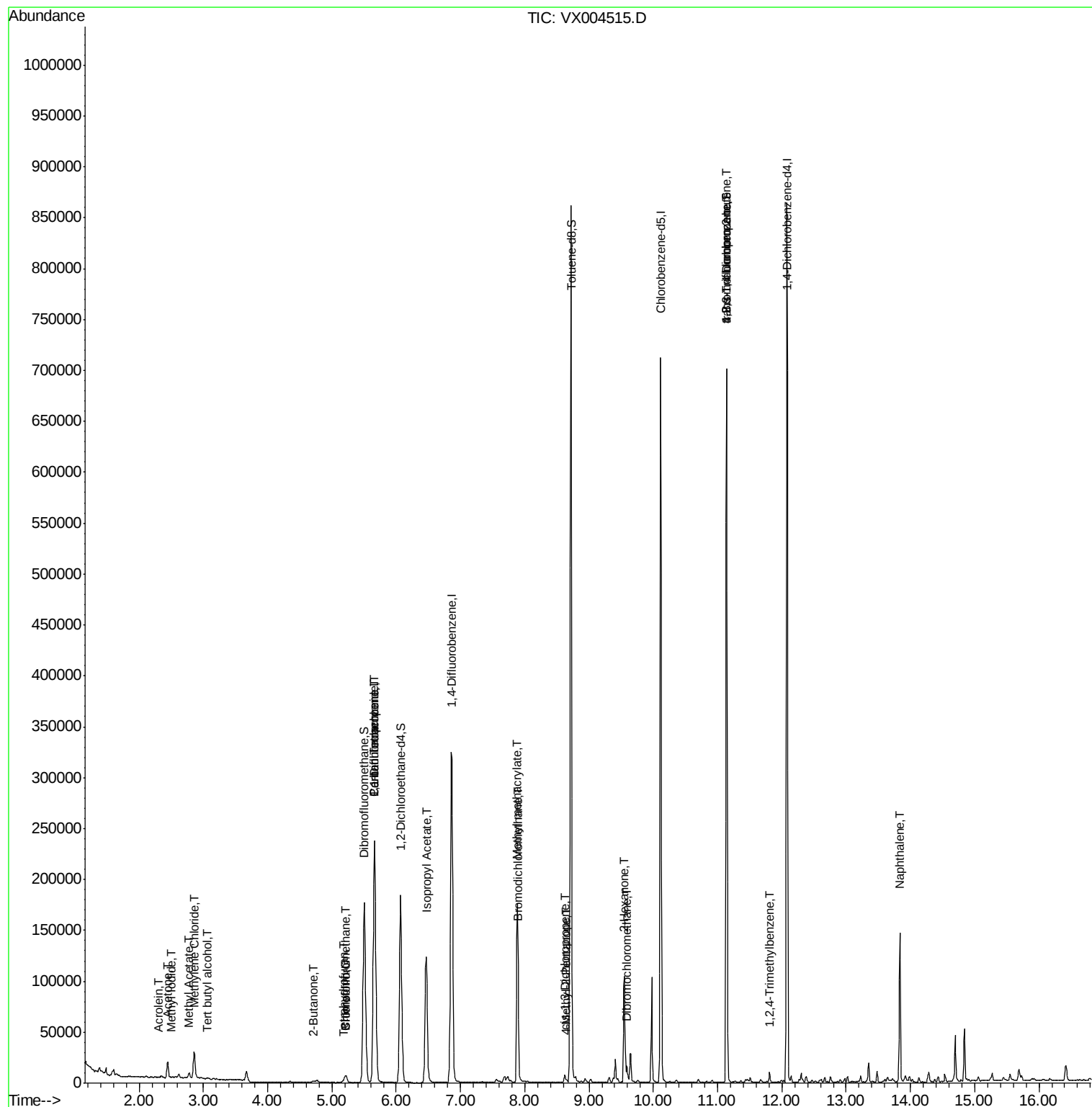
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	619	Below Cal		97
10) Methyl Iodide	2.51	142	517	4.40 ug/l	#	88
11) Tert butyl alcohol	3.07	59	1701	2.29 ug/l	#	89
13) Acrolein	2.30	56	292	0.99 ug/l	#	1
16) Acetone	2.45	43	16836	11.06 ug/l		96
18) Methyl Acetate	2.78	43	6203	1.45 ug/l		96
20) Methylene Chloride	2.85	84	12647	4.05 ug/l		93
25) 2-Butanone	4.70	43	3709	1.53 ug/l	#	89
28) Bromochloromethane	5.21	49	697	0.29 ug/l	#	9
29) Tetrahydrofuran	5.17	42	1023	0.70 ug/l	#	79
30) Chloroform	5.21	83	8735	1.69 ug/l		95
36) 1,1-Dichloropropene	5.66	75	16054	3.90 ug/l	#	49
38) Carbon Tetrachloride	5.66	117	20804	5.18 ug/l	#	16
43) Isopropyl Acetate	6.47	43	161686	26.03 ug/l		99
47) Bromodichloromethane	7.90	83	2025	0.58 ug/l		99
48) Methyl methacrylate	7.88	41	16241	5.28 ug/l	#	40
51) 4-Methyl-2-Pentanone	8.65	43	1271	0.29 ug/l	#	63
54) cis-1,3-Dichloropropene	8.62	75	1134	0.27 ug/l	#	75
59) 2-Hexanone	9.54	43	11713	3.48 ug/l	#	56
60) Dibromochloromethane	9.59	129	589	0.20 ug/l		91
76) 1,2,3-Trichloropropane	11.14	75	80258	22.03 ug/l	#	37
81) trans-1,4-Dichloro-2-buten	11.14	75	80258	70.22 ug/l	#	10
84) 1,2,4-Trimethylbenzene	11.81	105	4247	0.41 ug/l		98
95) Naphthalene	13.83	128	90315	7.31 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: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

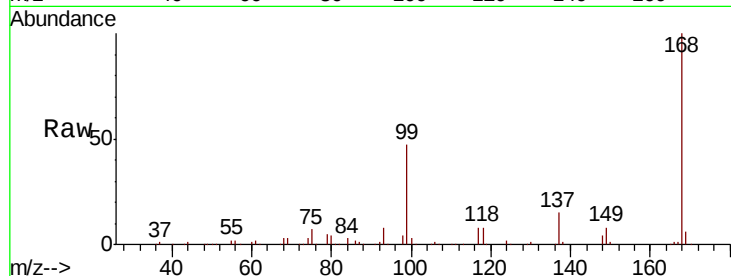
NF-STONE

Tot Ion:168 Resp: 241903

Ion Ratio Lower Upper

168 100

99 47.0 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

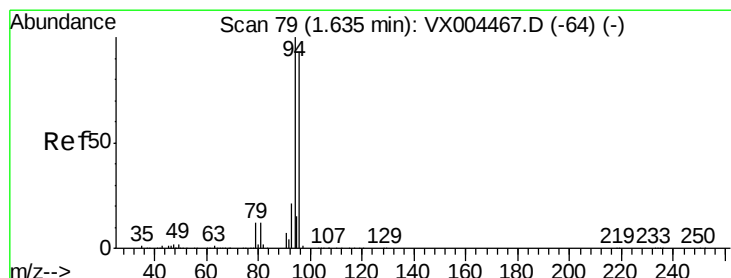
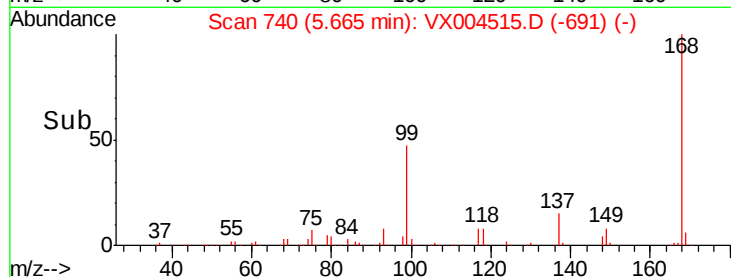
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004515.D

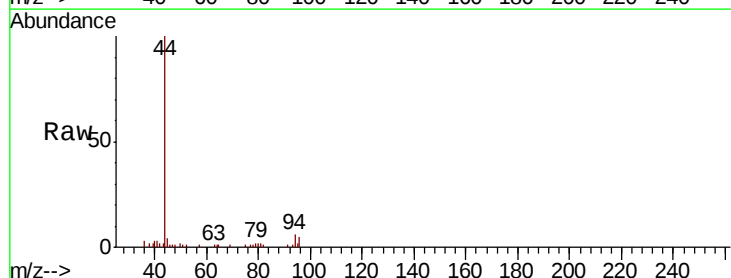
Acq: 13 Sep 2018 14:48

Tgt Ion: 94 Resp: 619

Ion Ratio Lower Upper

94 100

96 90.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

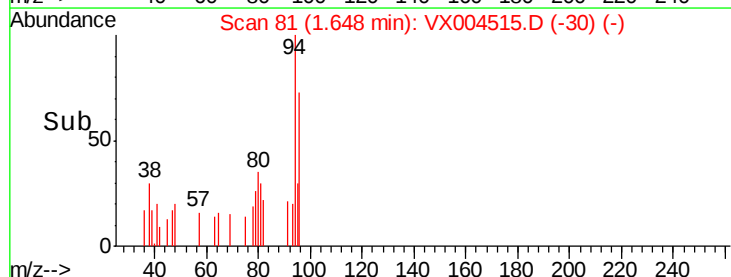
300

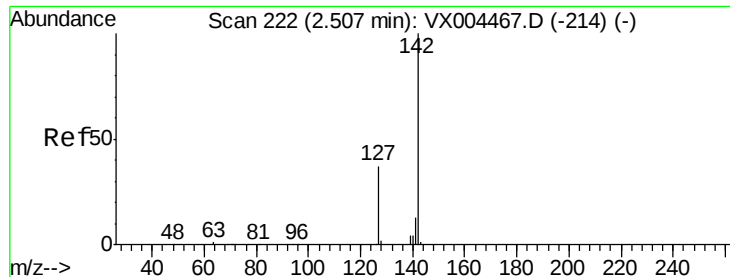
200

100

0

Time--> 1.60 1.65 1.70

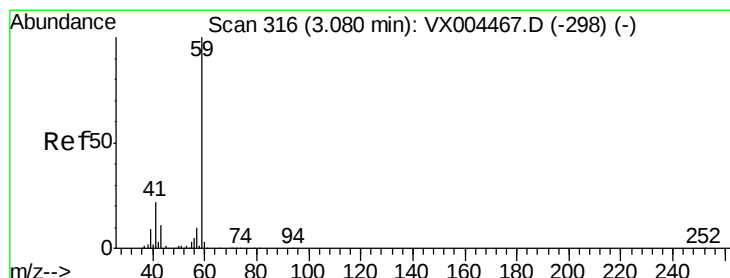
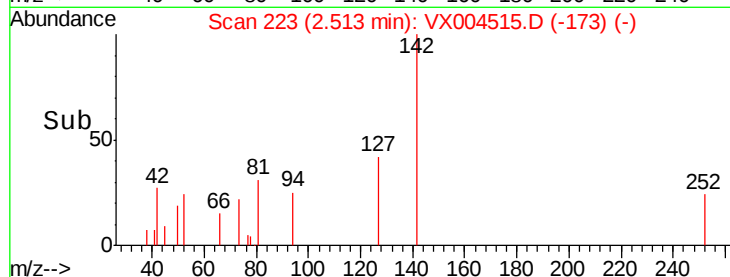
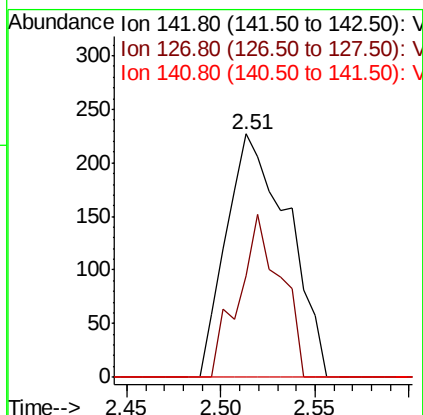
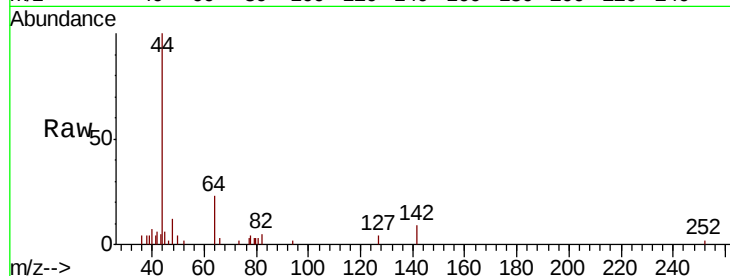




#10
Methvl Iodide
Concen: 4.40 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

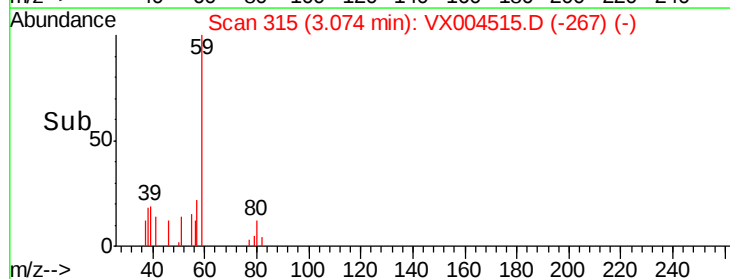
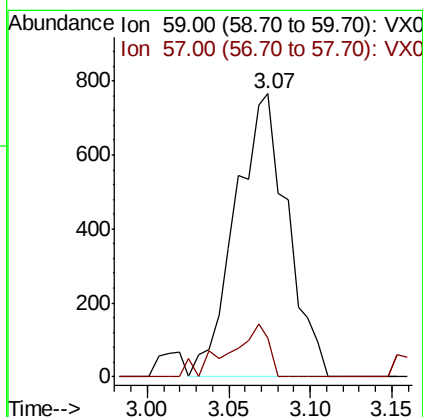
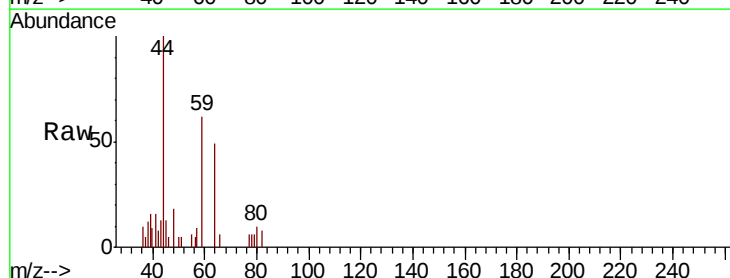
Instrument :
MSVOA_X
ClientSampleId :
NF-STONE

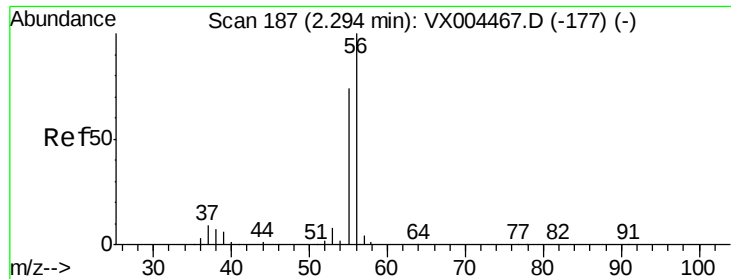
Tot Ion:142 Resp: 517
Ion Ratio Lower Upper
142 100
127 45.3 33.8 50.6
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.29 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

Tgt Ion: 59 Resp: 1701
Ion Ratio Lower Upper
59 100
57 14.2 8.2 12.4#

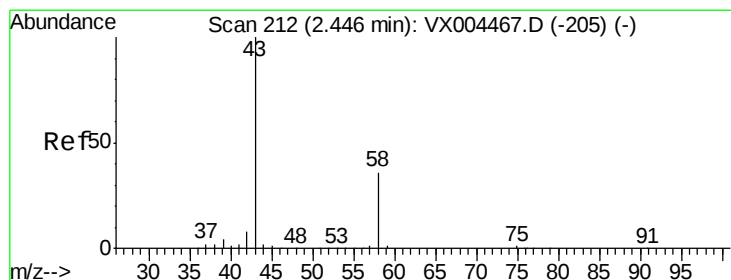
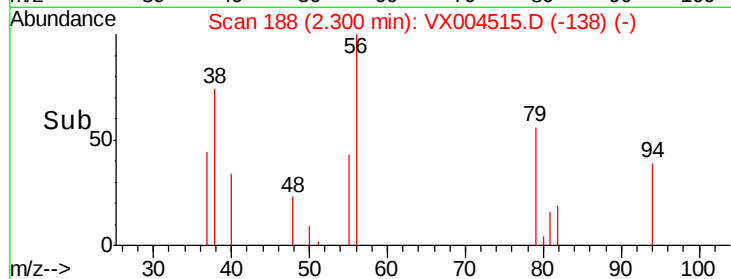
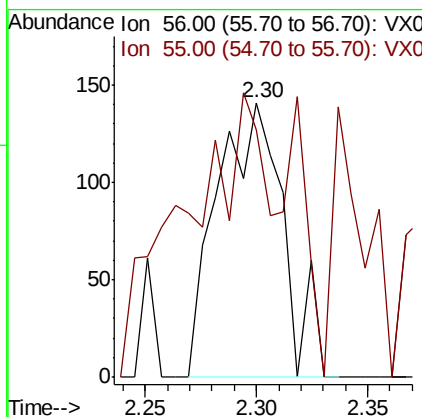
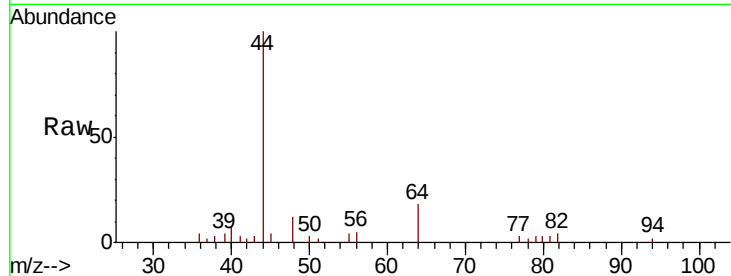




#13
Acrolein
Concen: 0.99 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

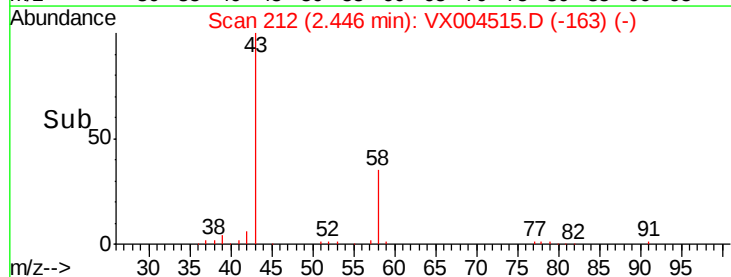
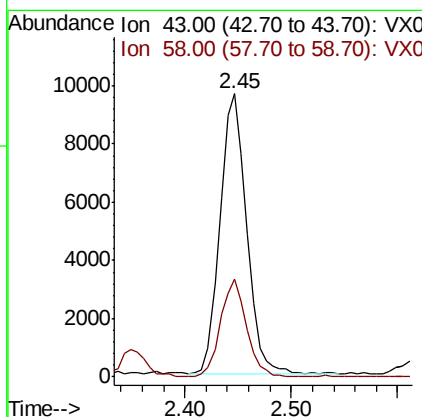
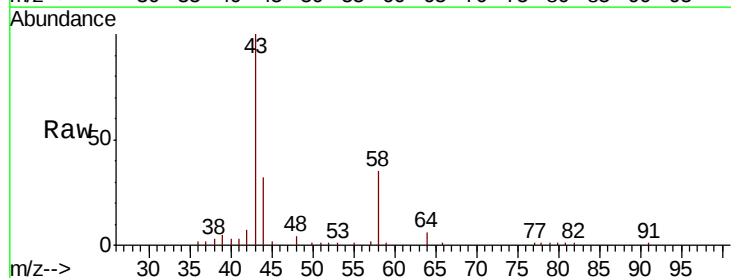
Instrument :
MSVOA_X
ClientSampleId :
NF-STONE

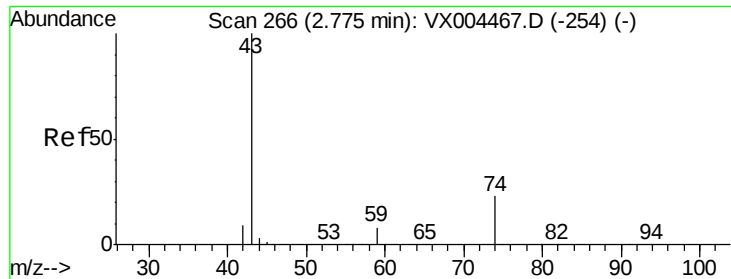
Tot Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 162.0 54.7 82.1#



#16
Acetone
Concen: 11.06 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

Tgt Ion: 43 Resp: 16836
Ion Ratio Lower Upper
43 100
58 34.9 26.2 39.4





#18

Methyl Acetate

Concen: 1.45 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

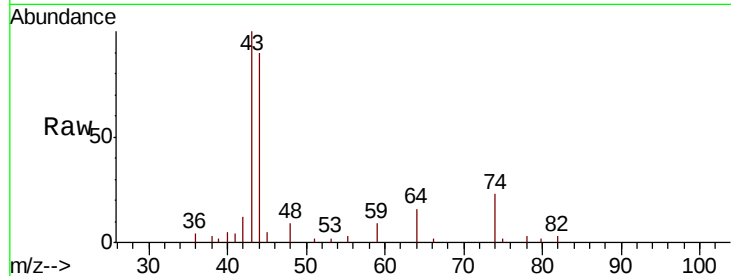
NF-STONE

Tot Ion: 43 Resp: 6203

Ion Ratio Lower Upper

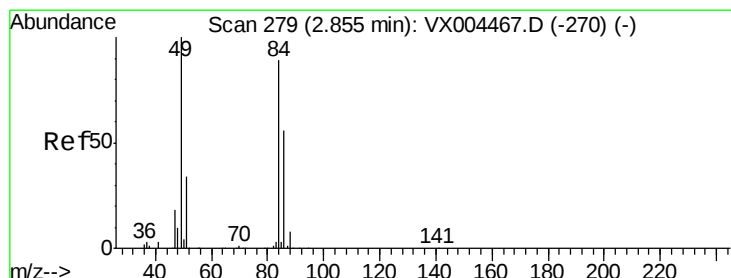
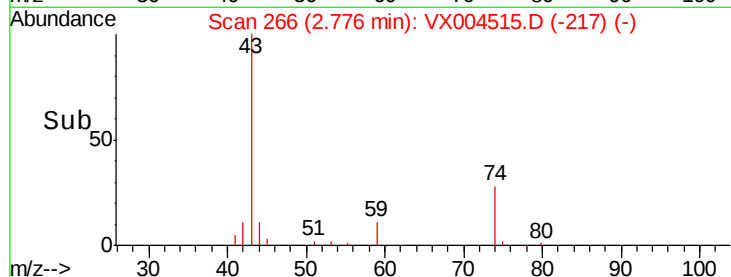
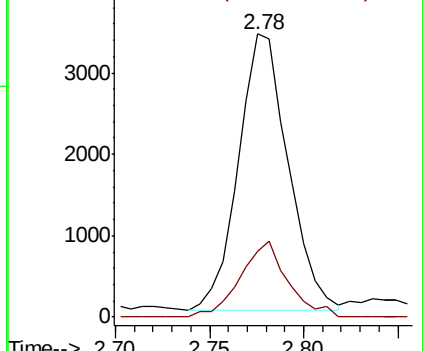
43 100

74 26.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 4.05 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Tgt Ion: 84 Resp: 12647

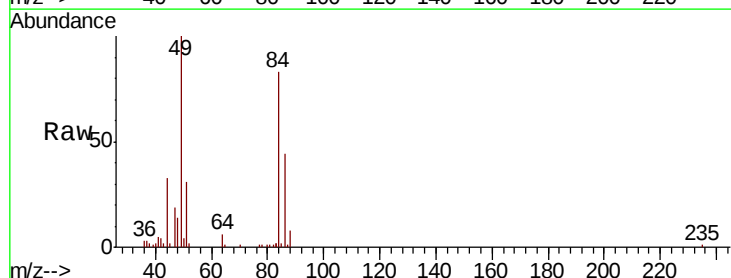
Ion Ratio Lower Upper

84 100

49 120.5 101.2 151.8

51 37.0 29.5 44.3

86 53.6 52.3 78.5

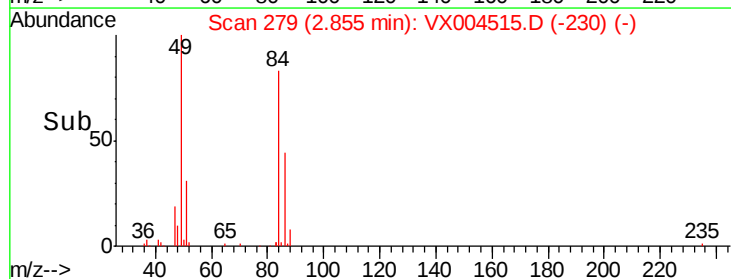
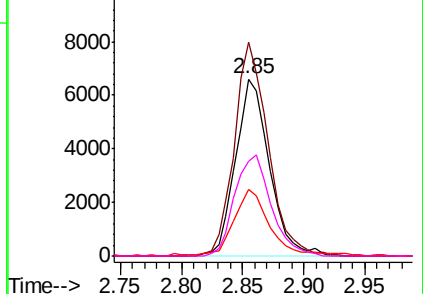


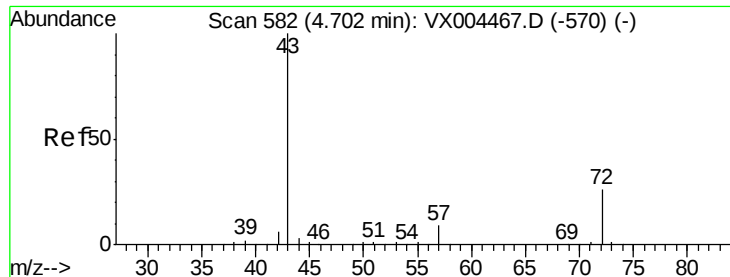
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.53 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

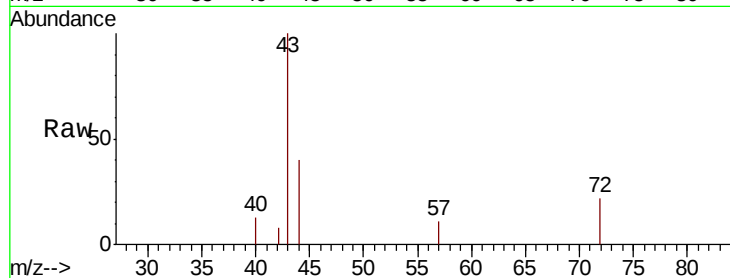
NF-STONE

Tot Ion: 43 Resp: 3709

Ion Ratio Lower Upper

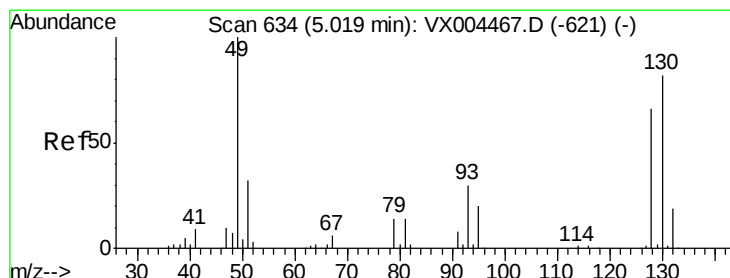
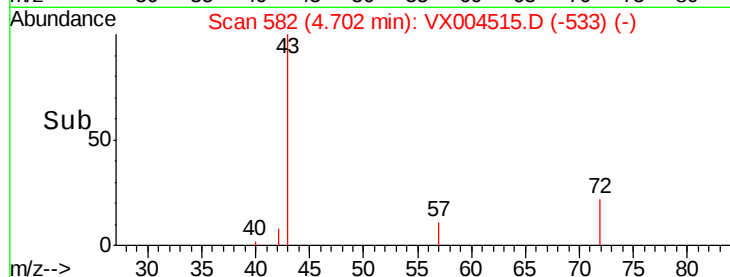
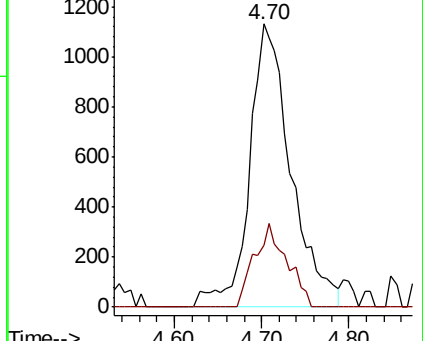
43 100

72 21.7 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 0.29 ug/l

RT: 5.21 min Scan# 665

Delta R.T. 0.19 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

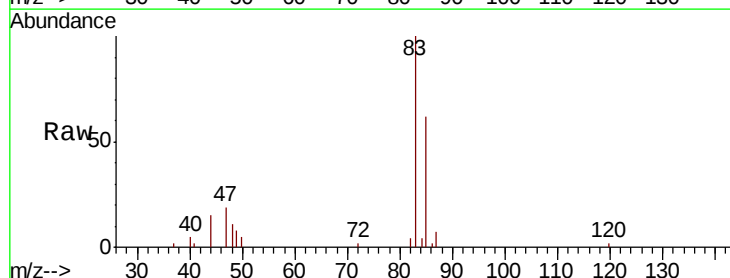
Tgt Ion: 49 Resp: 697

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

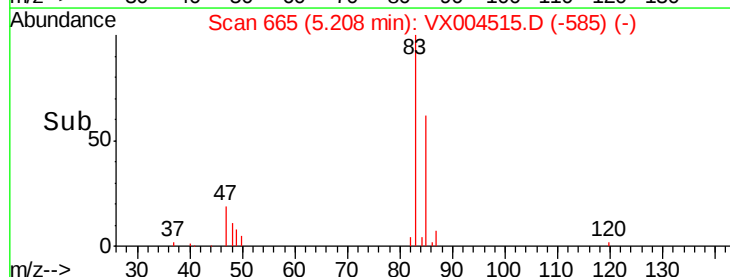
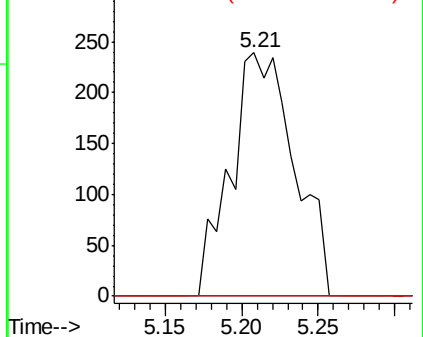
130 0.0 67.5 101.3#

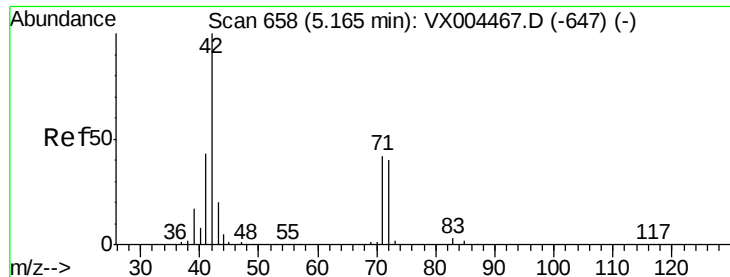


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.70 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

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ClientSampleId :

NF-STONE

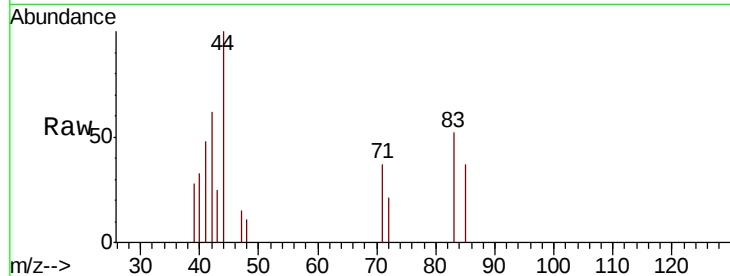
Tot Ion: 42 Resp: 1023

Ion Ratio Lower Upper

42 100

72 34.0 37.4 56.0#

71 28.3 34.5 51.7#

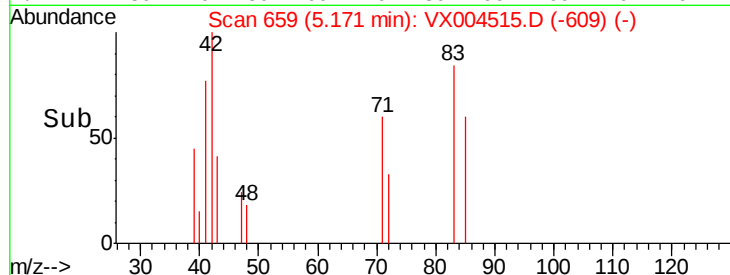


Abundance Ion 42.00 (41.70 to 42.70): VX0

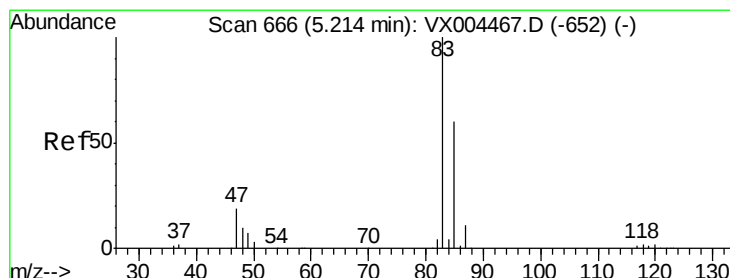
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.17



Time-->



#30

Chloroform

Concen: 1.69 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX004515.D

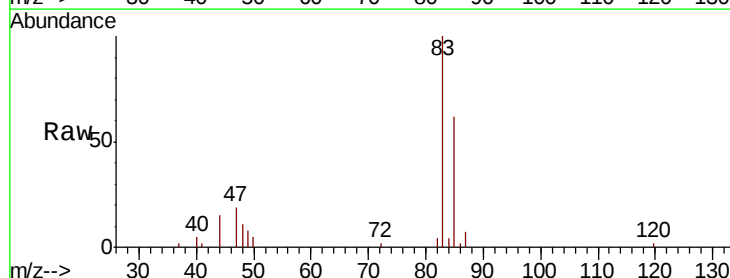
Acq: 13 Sep 2018 14:48

Tgt Ion: 83 Resp: 8735

Ion Ratio Lower Upper

83 100

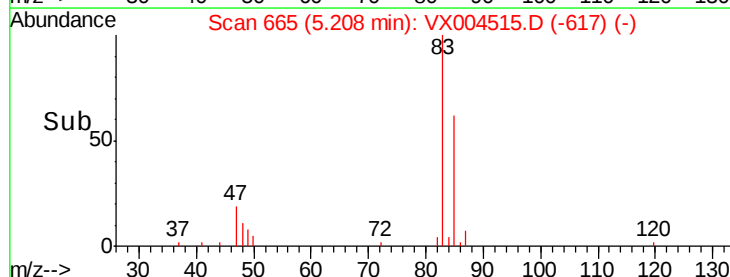
85 61.6 52.6 79.0



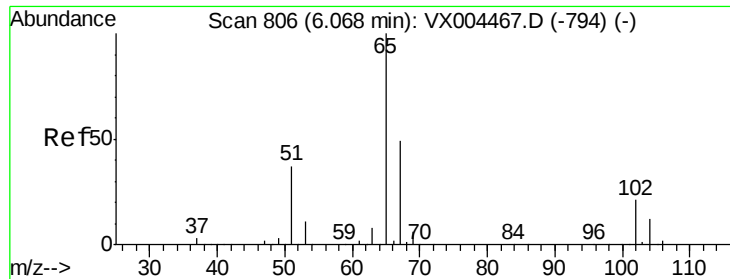
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21



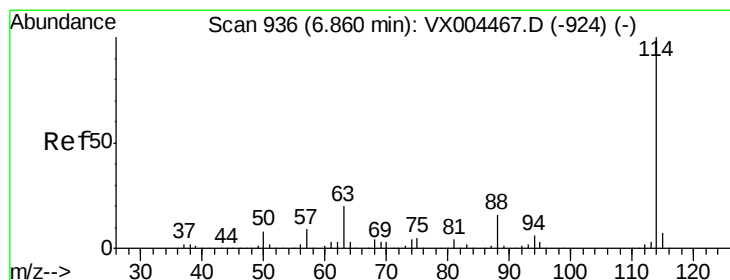
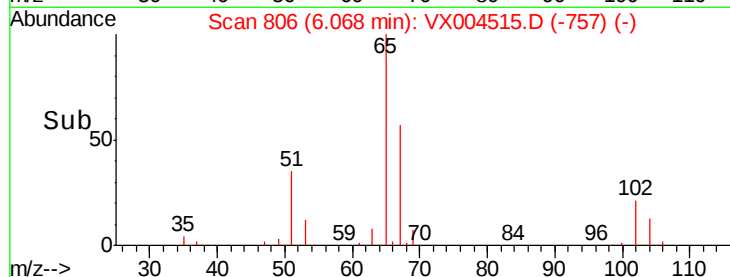
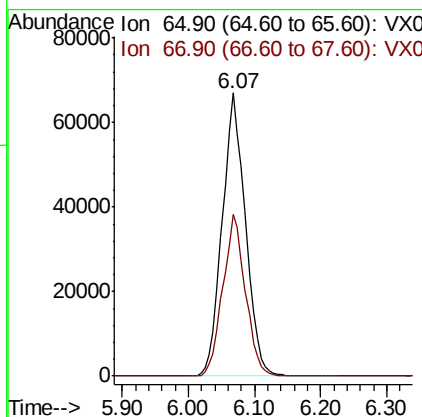
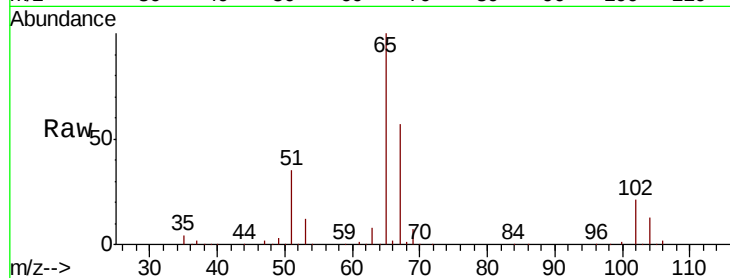
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 52.30 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

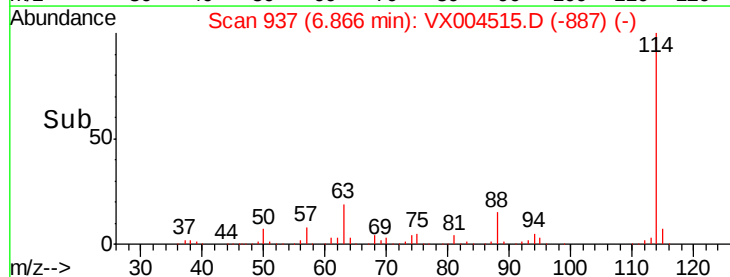
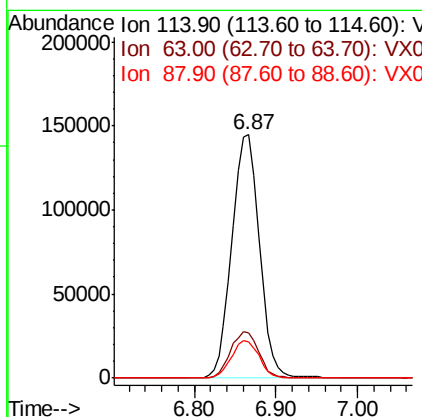
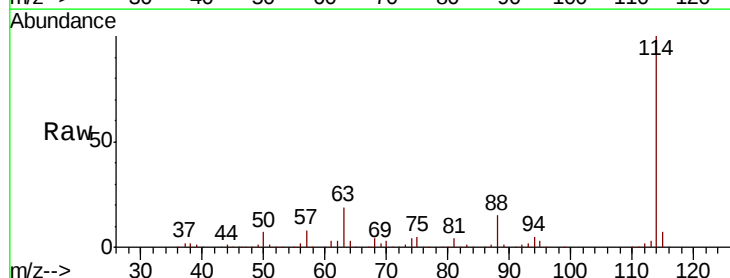
Instrument :
 MSVOA_X
 ClientSampleId :
 NF-STONE

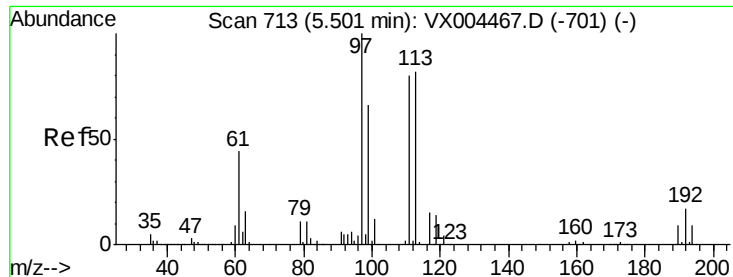
Tot Ion: 65 Resp: 163130
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

Tgt Ion: 114 Resp: 338671
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.0
 88 14.7 0.0 30.4

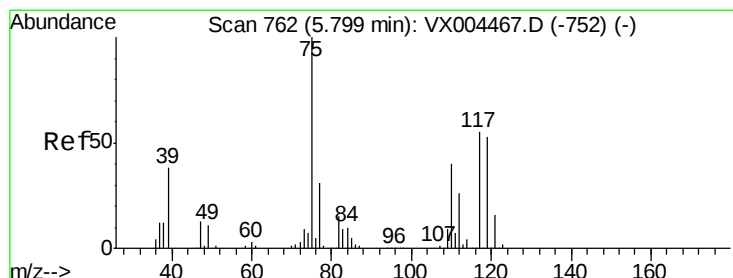
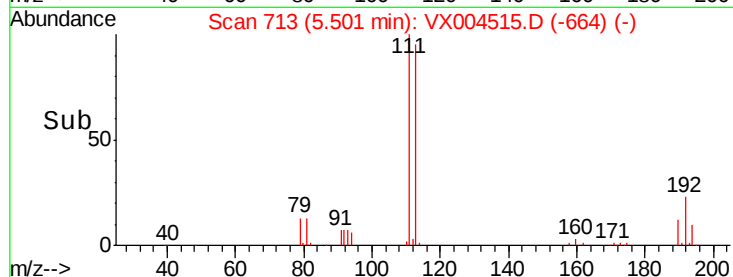
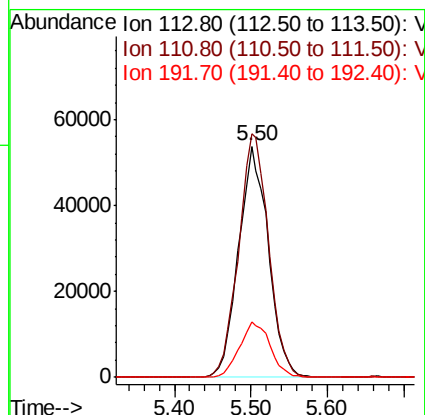
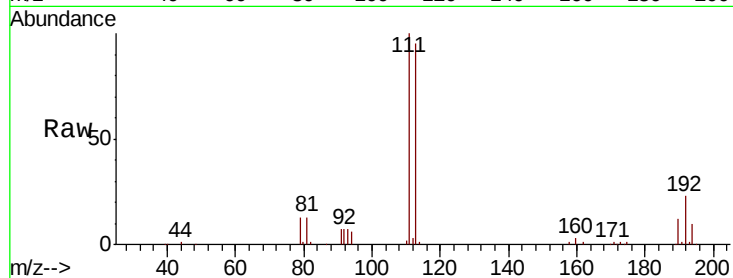




#35
 Dibromofluoromethane
 Concen: 46.97 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

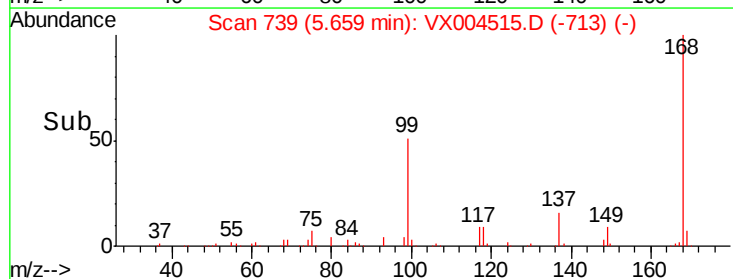
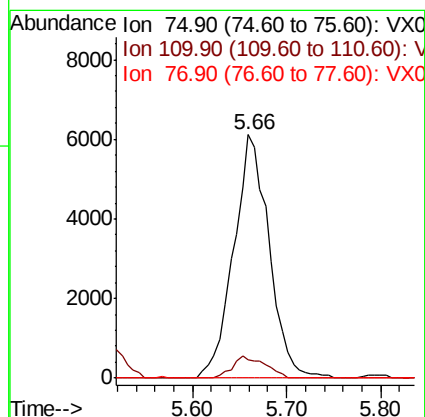
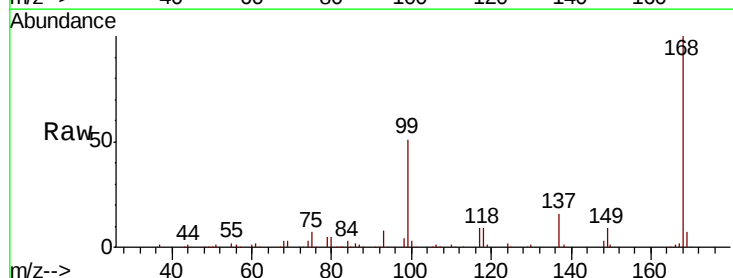
Instrument :
 MSVOA_X
 ClientSampleId :
 NF-STONE

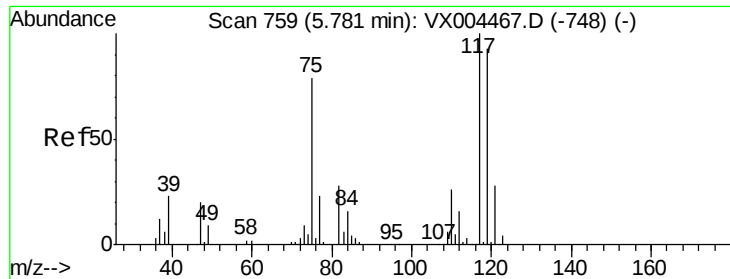
Tot Ion	Ratio	Lower	Upper
113	100		
111	106.0	82.4	123.6
192	24.7	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.90 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.0	54.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.18 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

NF-STONE

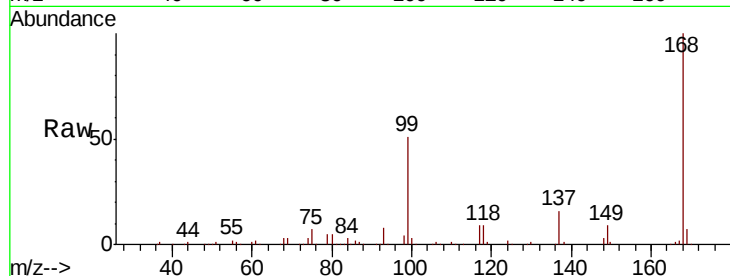
Tot Ion:117 Resp: 20804

Ion Ratio Lower Upper

117 100

119 6.7 78.8 118.2#

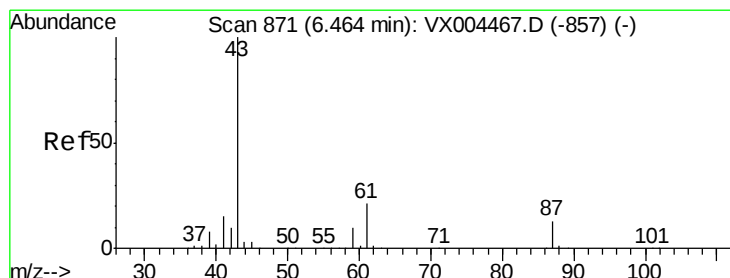
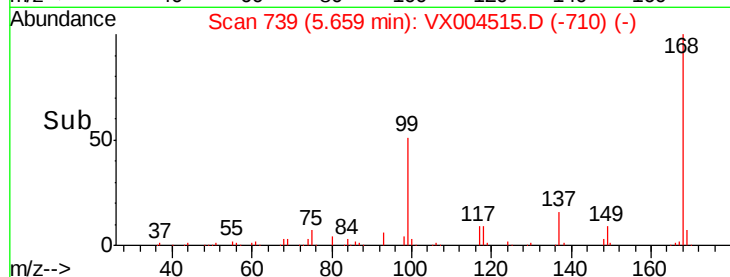
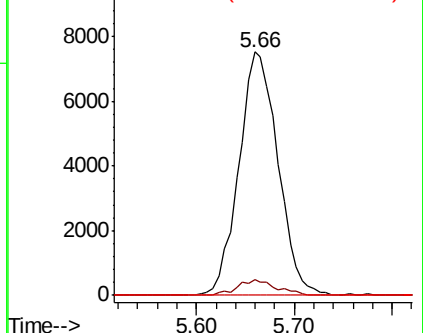
121 0.0 24.9 37.3#



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: 26.03 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.01 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

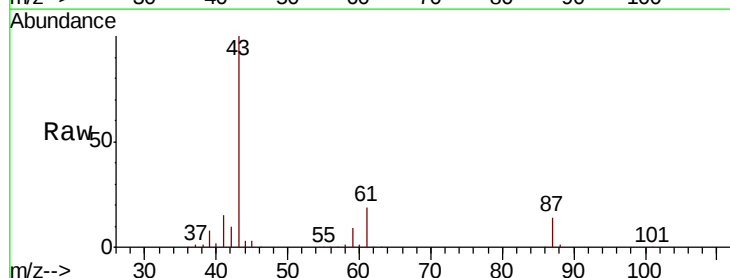
Tgt Ion: 43 Resp: 161686

Ion Ratio Lower Upper

43 100

61 21.5 17.0 25.4

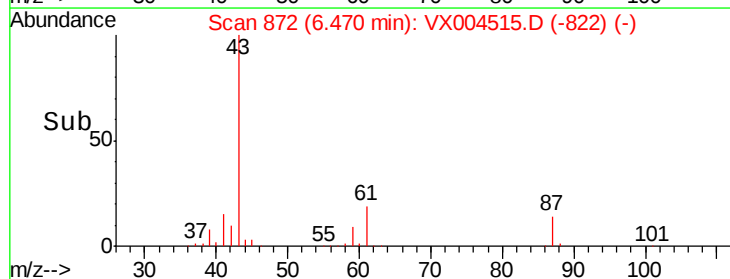
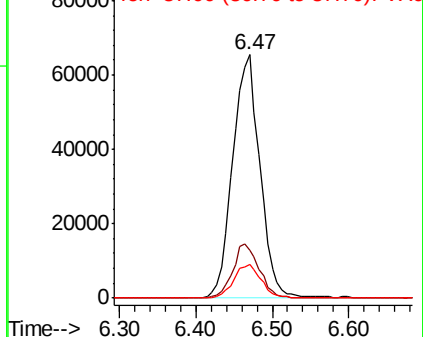
87 13.8 11.4 17.2

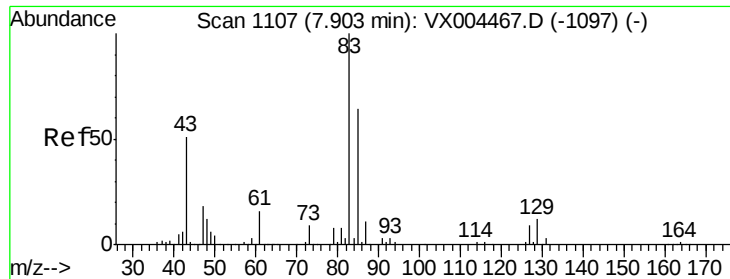


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#47

Bromodichloromethane

Concen: 0.58 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

NF-STONE

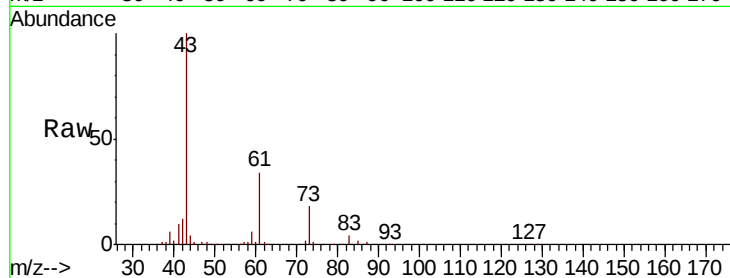
Tot Ion: 83 Resp: 2025

Ion Ratio Lower Upper

83 100

85 63.6 50.9 76.3

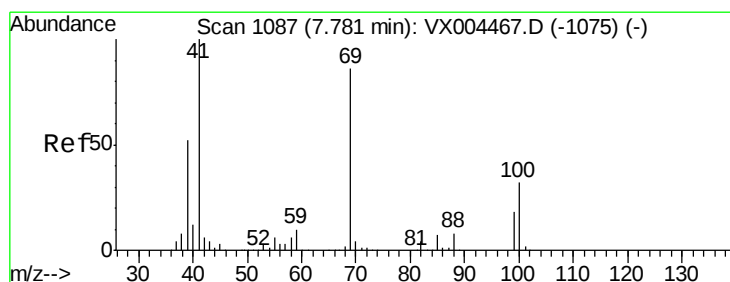
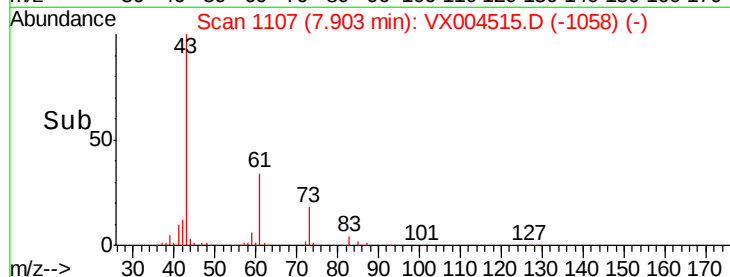
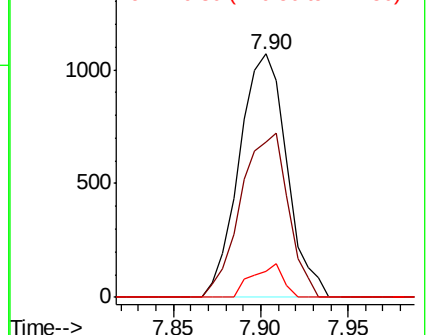
127 10.6 7.3 10.9



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

Methyl methacrylate

Concen: 5.28 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.10 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

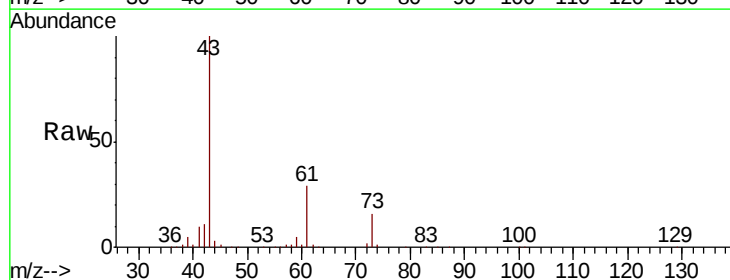
Tgt Ion: 41 Resp: 16241

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

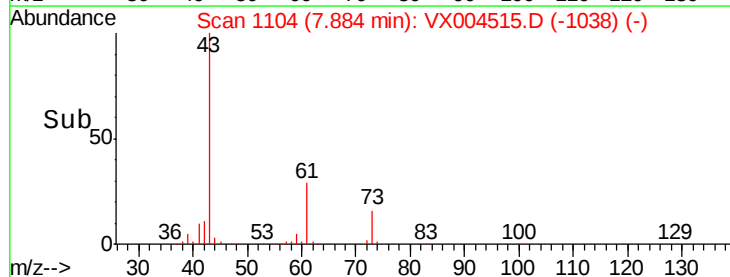
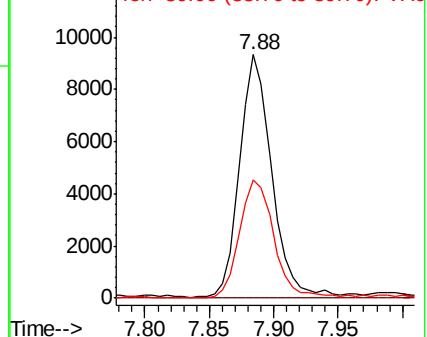
39 51.8 42.7 64.1

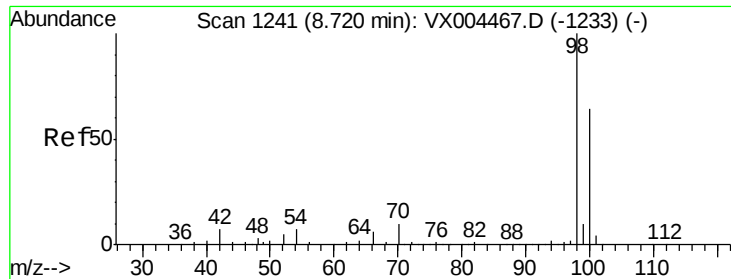


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

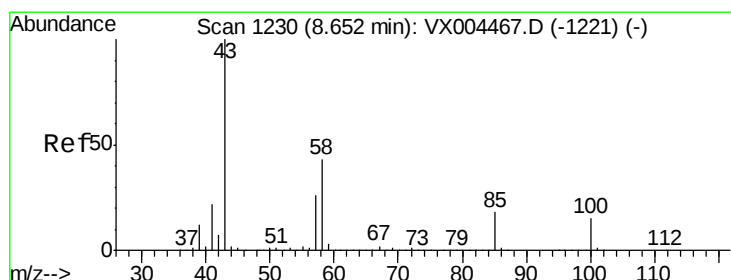
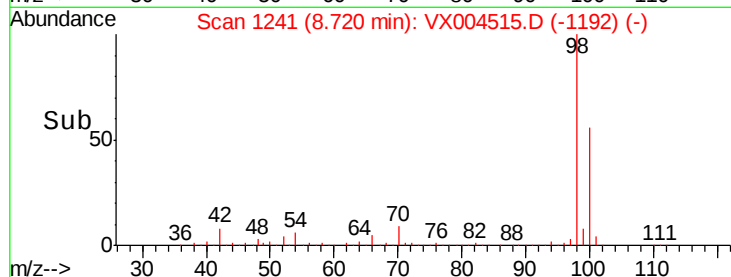
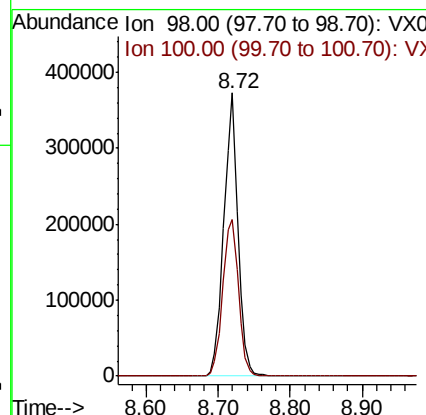
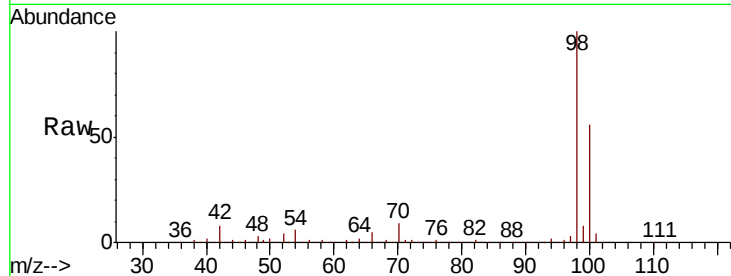




#50
Toluene-d8
Concen: 48.71 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

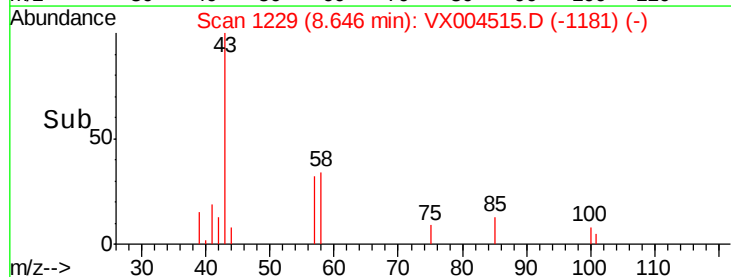
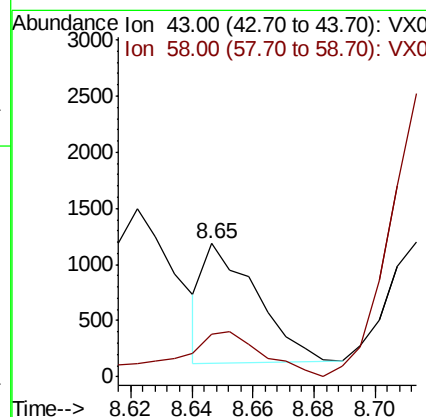
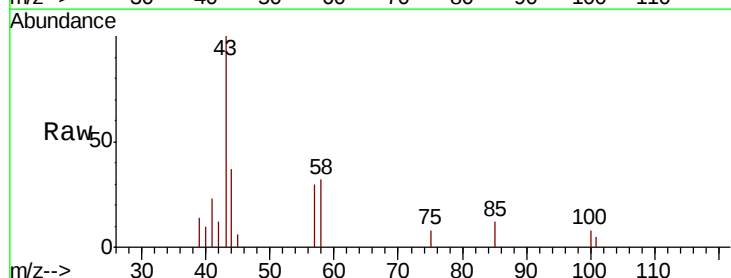
Instrument :
MSVOA_X
ClientSampleId :
NF-STONE

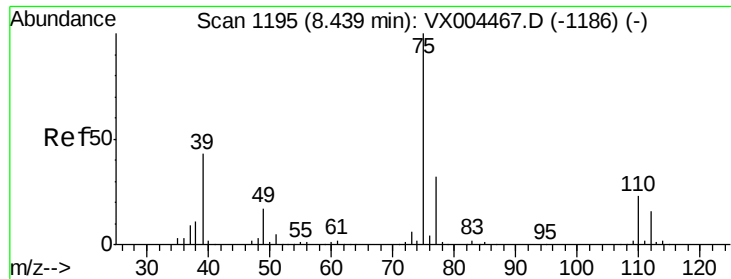
Tot Ion: 98 Resp: 506219
Ion Ratio Lower Upper
98 100
100 61.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.01 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

Tgt Ion: 43 Resp: 1271
Ion Ratio Lower Upper
43 100
58 64.4 33.1 49.7#





#54

cis-1,3-Dichloropropene

Concen: 0.27 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampled :

NF-STONE

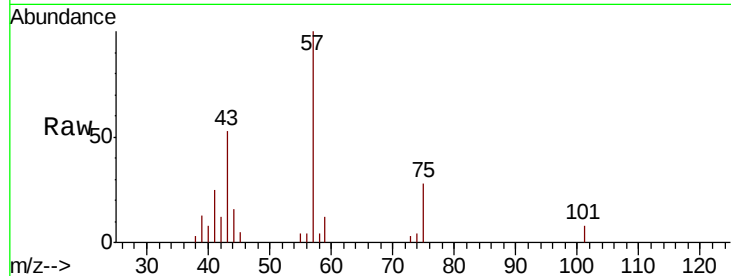
Tot Ion: 75 Resp: 1134

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

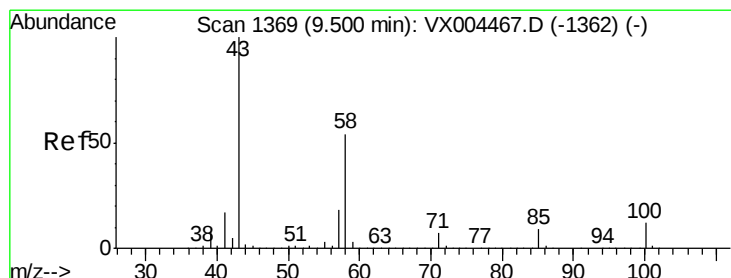
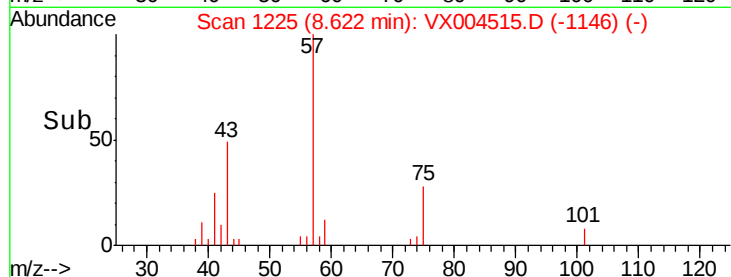
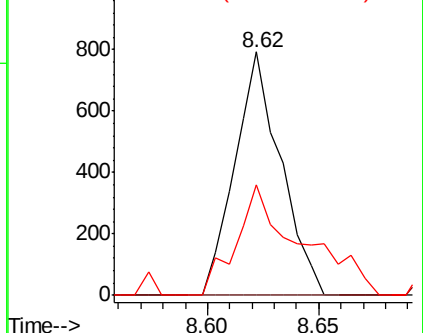
39 45.1 36.4 54.6



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



#59

2-Hexanone

Concen: 3.48 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX004515.D

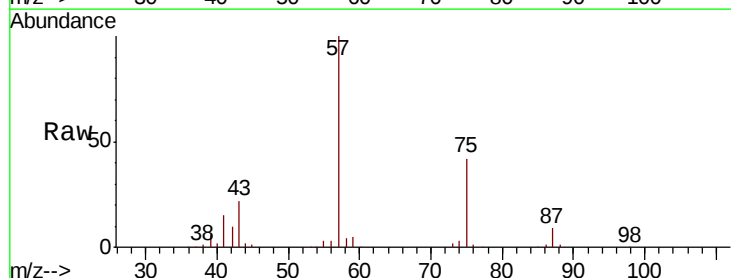
Acq: 13 Sep 2018 14:48

Tgt Ion: 43 Resp: 11713

Ion Ratio Lower Upper

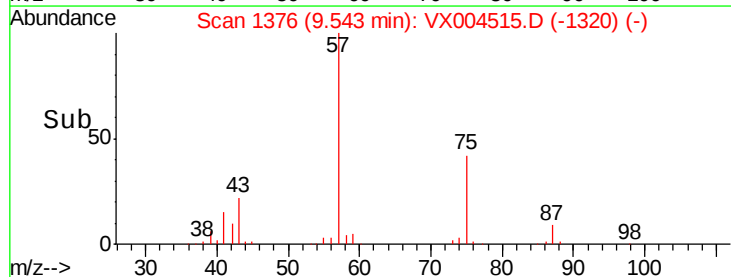
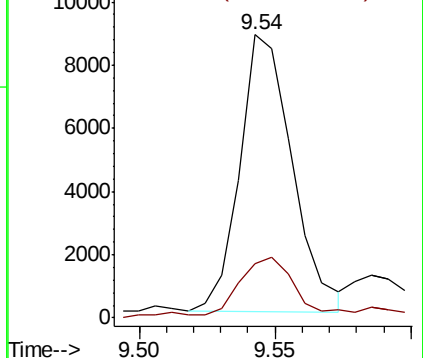
43 100

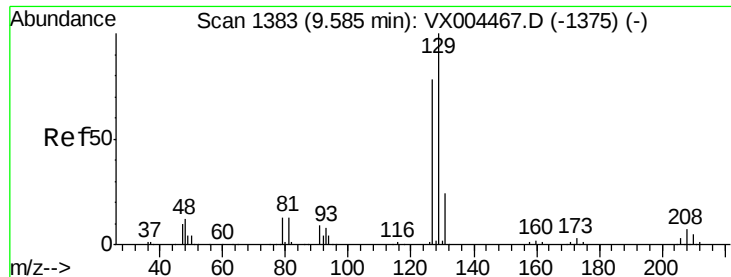
58 25.5 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

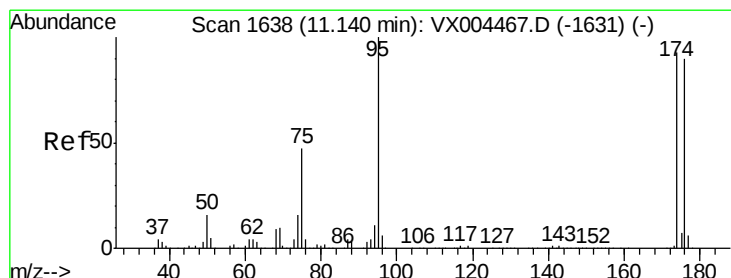
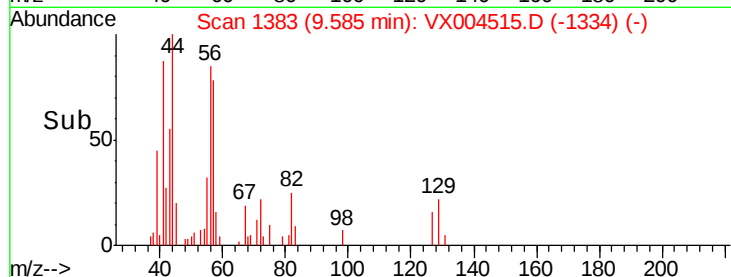
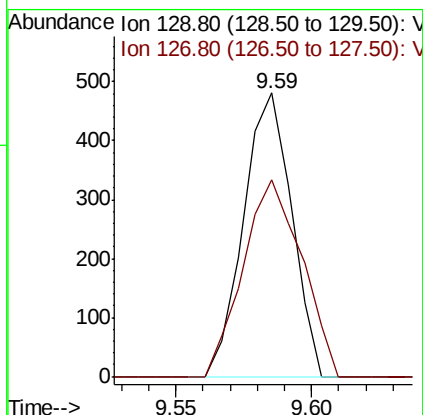
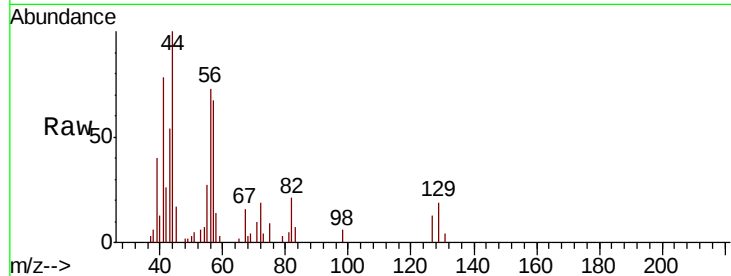




#60
 Dibromochloromethane
 Concen: 0.20 ug/l
 RT: 9.59 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

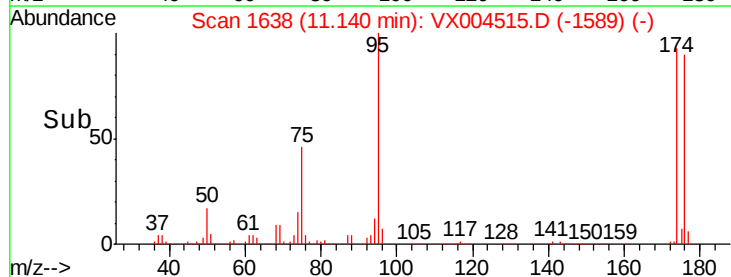
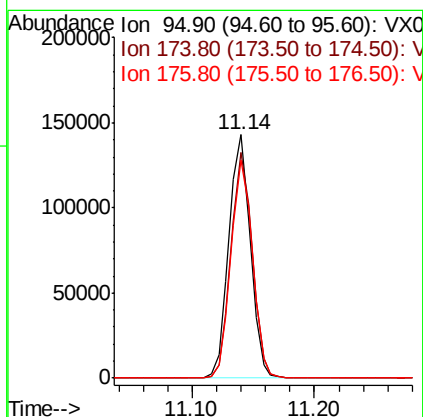
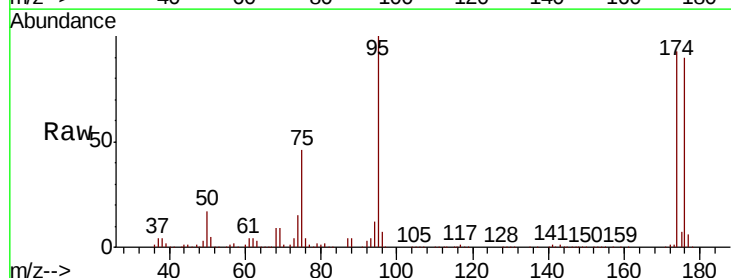
Instrument :
 MSVOA_X
 ClientSampled :
 NF-STONE

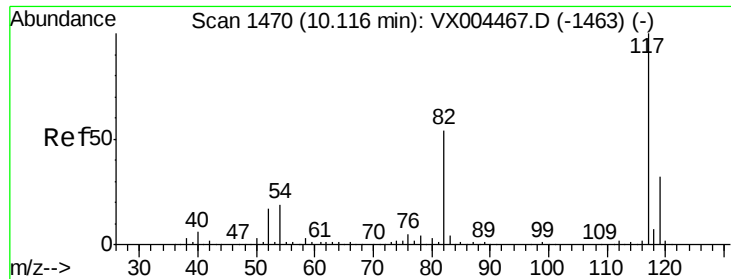
Tot Ion:129 Resp: 589
 Ion Ratio Lower Upper
 129 100
 127 84.7 38.5 115.5



#62
 4-Bromofluorobenzene
 Concen: 46.82 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

Tgt Ion: 95 Resp: 173680
 Ion Ratio Lower Upper
 95 100
 174 92.1 0.0 185.2
 176 89.5 0.0 178.6

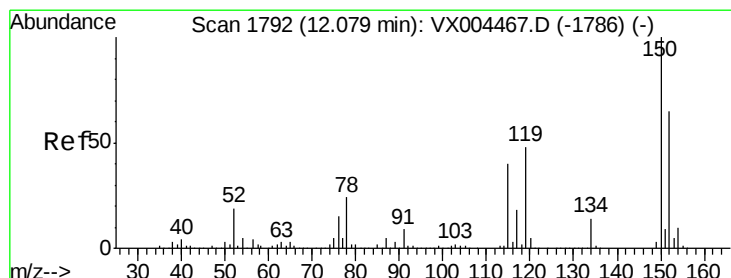
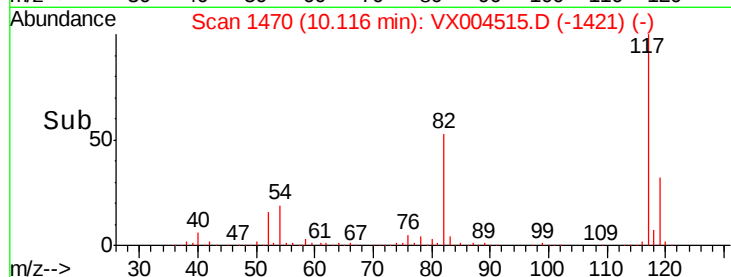
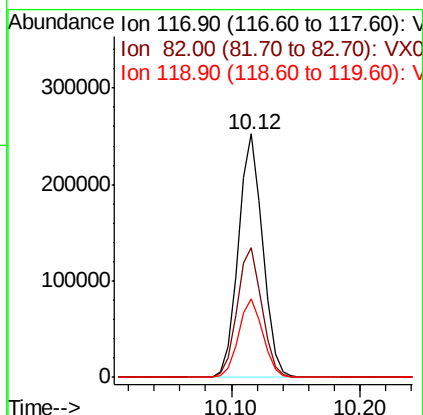
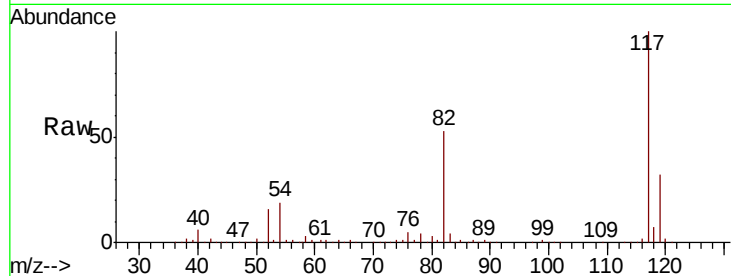




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

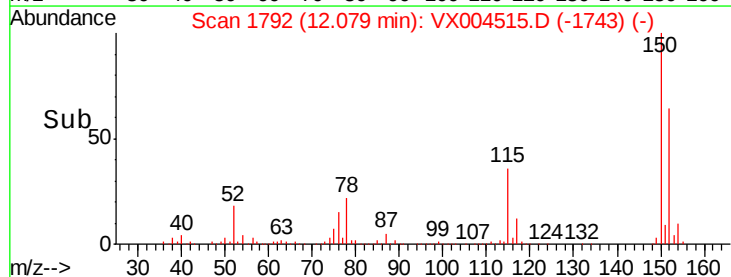
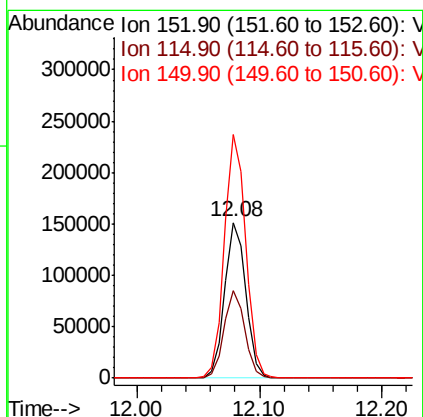
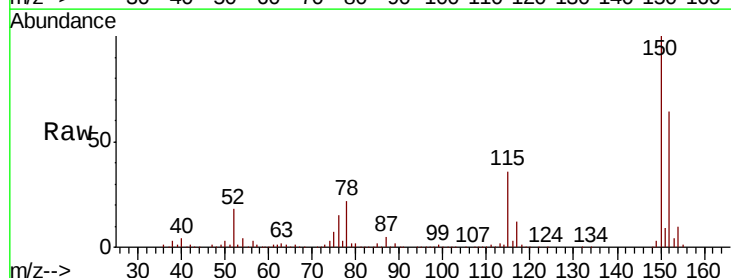
Instrument :
MSVOA_X
ClientSampleId :
NF-STONE

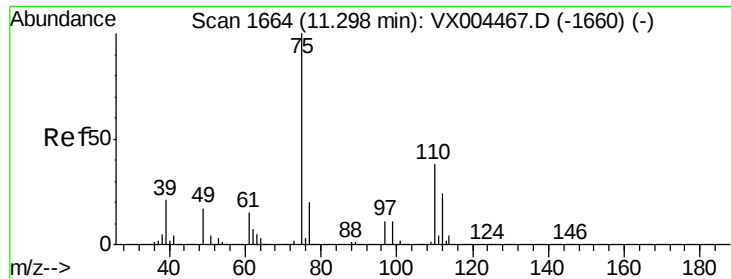
Tot Ion:117 Resp: 330181
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 32.1 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004515.D
Acq: 13 Sep 2018 14:48

Tgt Ion:152 Resp: 181088
Ion Ratio Lower Upper
152 100
115 55.8 39.0 117.0
150 157.5 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.03 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

Instrument :

MSVOA_X

ClientSampleId :

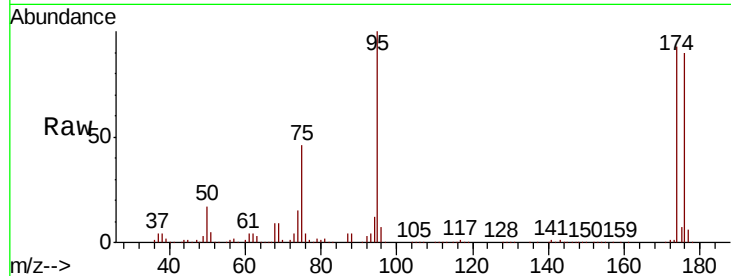
NF-STONE

Tot Ion: 75 Resp: 80258

Ion Ratio Lower Upper

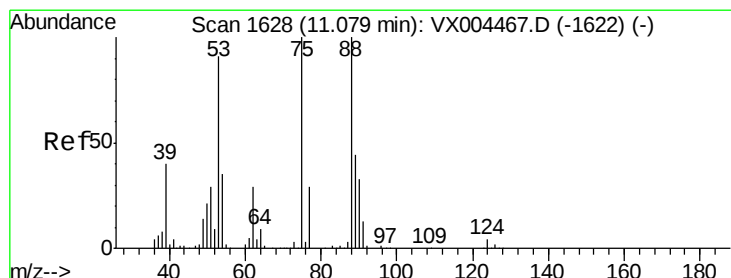
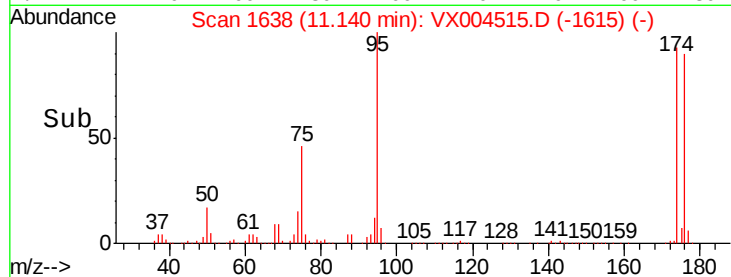
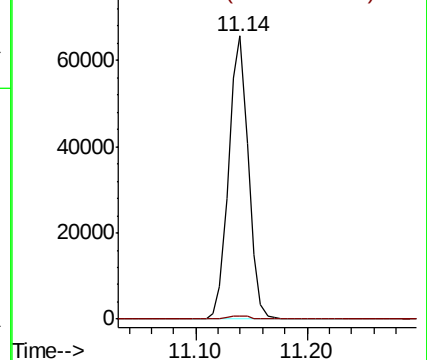
75 100

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: 70.22 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004515.D

Acq: 13 Sep 2018 14:48

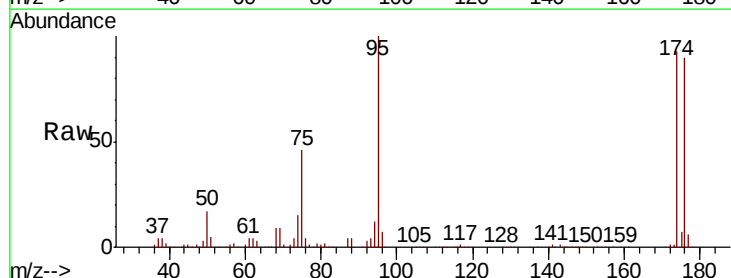
Tgt Ion: 75 Resp: 80258

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

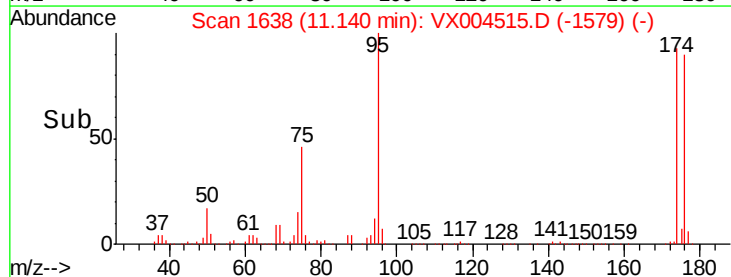
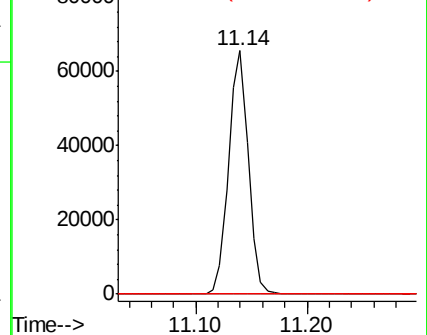
89 0.0 37.2 55.8#

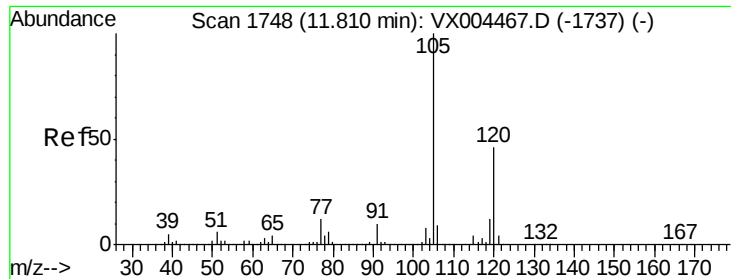


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

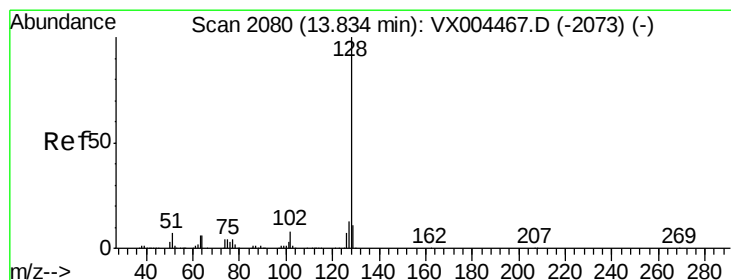
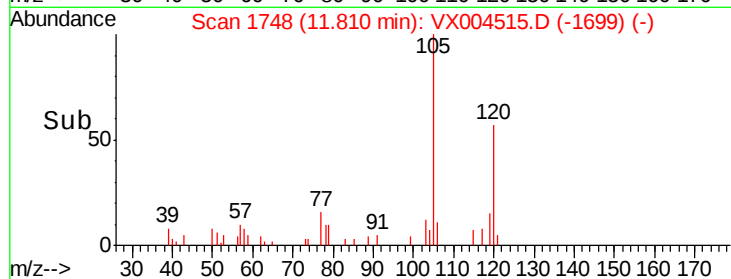
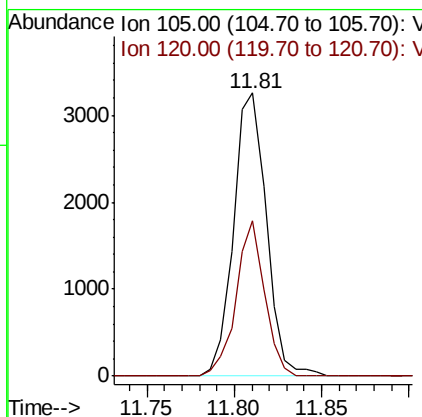
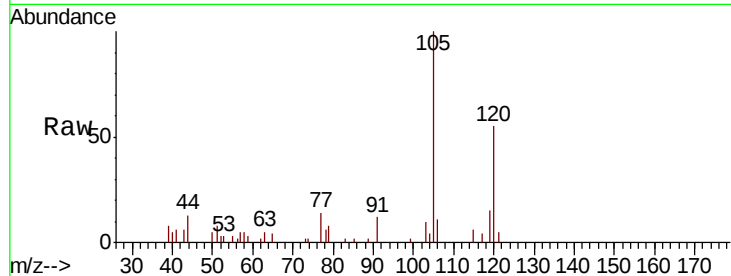




#84
 1,2,4-Trimethylbenzene
 Concen: 0.41 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

Instrument :
 MSVOA_X
 ClientSampleId :
 NF-STONE

Tot Ion:105 Resp: 4247
 Ion Ratio Lower Upper
 105 100
 120 47.6 23.2 69.6



#95
 Naphthalene
 Concen: 7.31 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX004515.D
 Acq: 13 Sep 2018 14:48

Tgt Ion:128 Resp: 90315
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.2 15.2
 129 11.1 8.6 12.8

