

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050242.D
 Acq On : 1 Aug 2018 12:15
 Operator : MD\SY
 Sample : J4256-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 02 00:52:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	673714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1076367	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	861343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	298154	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	456913	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
35) Dibromofluoromethane	7.59	113	409645	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	10.09	98	1460799	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	
62) 4-Bromofluorobenzene	12.40	95	376860	35.42	ug/l	0.00
Spiked Amount			Recovery	=	70.84%	

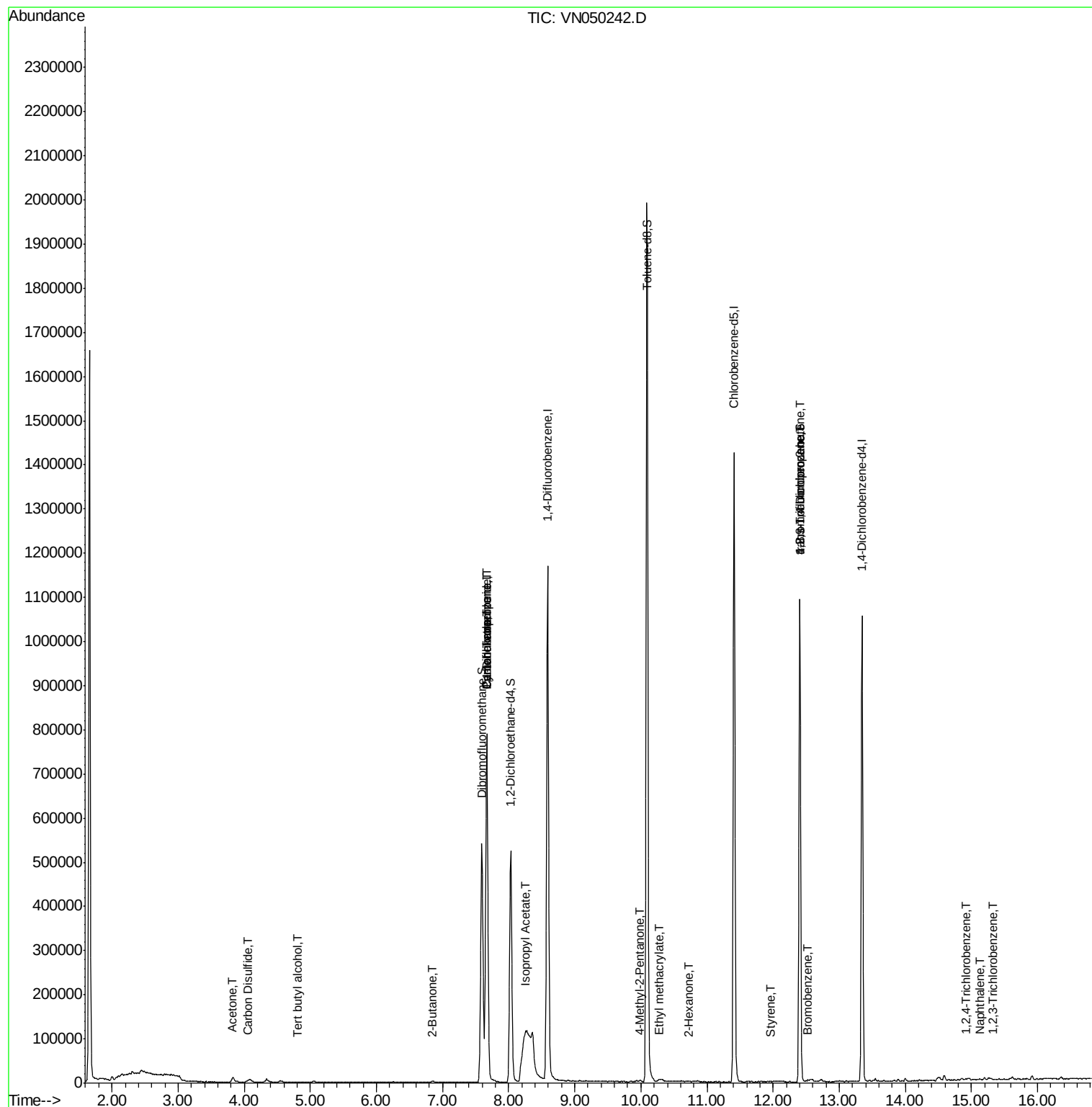
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	696	Below Cal		93
11) Tert butyl alcohol	4.80	59	314	0.45 ug/l	#	72
16) Acetone	3.82	43	20020	4.78 ug/l		99
17) Carbon Disulfide	4.05	76	5524	0.23 ug/l	#	91
18) Methyl Acetate	4.34	43	12219	Below Cal	#	85
20) Methylene Chloride	4.56	84	1661	Below Cal		88
25) 2-Butanone	6.85	43	880	0.25 ug/l	#	48
31) Cyclohexane	7.67	56	12466	0.90 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	47042	3.88 ug/l	#	49
38) Carbon Tetrachloride	7.67	117	60918	4.73 ug/l	#	16
43) Isopropyl Acetate	8.26	43	153209	8.67 ug/l	#	62
51) 4-Methyl-2-Pentanone	9.99	43	2388	0.29 ug/l		88
56) Ethyl methacrylate	10.26	69	66	2.04 ug/l	#	1
59) 2-Hexanone	10.72	43	284	5.22 ug/l	#	24
70) Styrene	11.97	104	110	0.93 ug/l	#	51
75) 1,1,2,2-Tetrachloroethane	12.47	83	30	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	182423	32.92 ug/l	#	100
77) Bromobenzene	12.53	156	1981	0.31 ug/l	#	1
81) trans-1,4-Dichloro-2-buten	12.40	75	182423	104.42 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.48	75	30	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	97	3.10 ug/l	#	1
95) Naphthalene	15.14	128	1432	4.51 ug/l	#	69
96) 1,2,3-Trichlorobenzene	15.32	180	29	2.21 ug/l	#	1

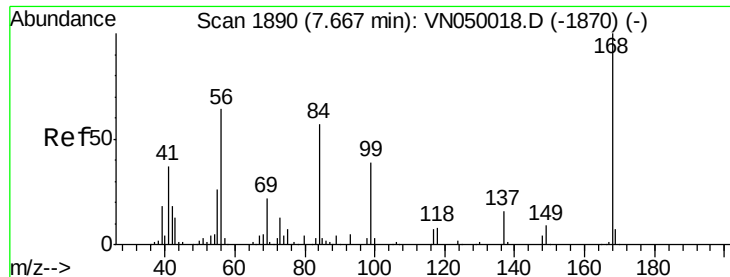
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
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Quant Time: Aug 02 00:52:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

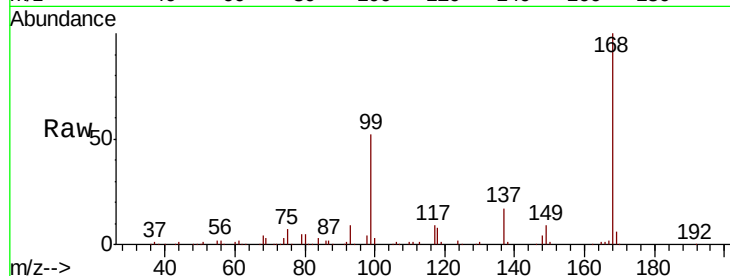
ClientSampled :

Tot Ion:168 Resp: 673714

Ion Ratio Lower Upper

168 100

99 52.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

250000

200000

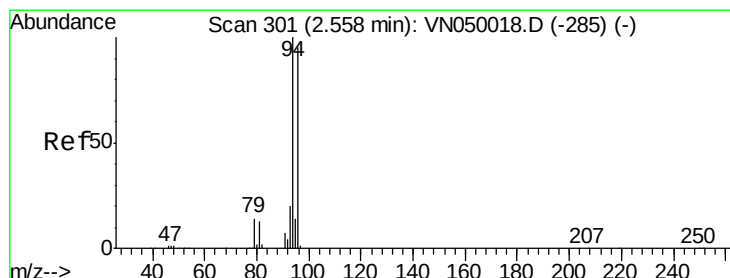
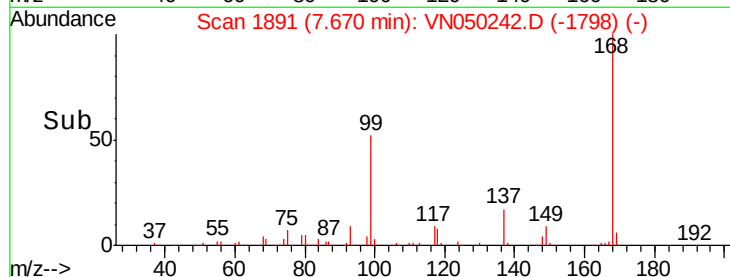
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050242.D

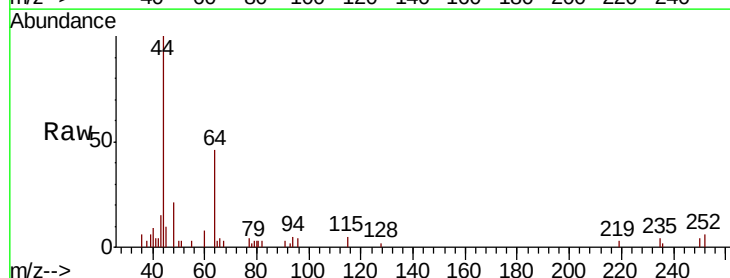
Acq: 1 Aug 2018 12:15

Tgt Ion: 94 Resp: 696

Ion Ratio Lower Upper

94 100

96 86.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

400

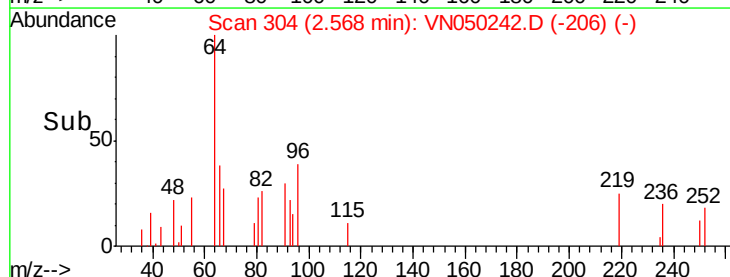
300

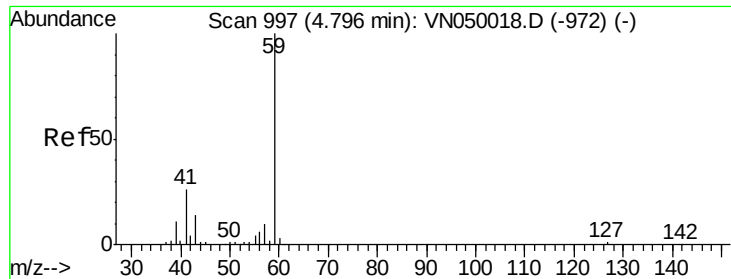
200

100

0

Time-->

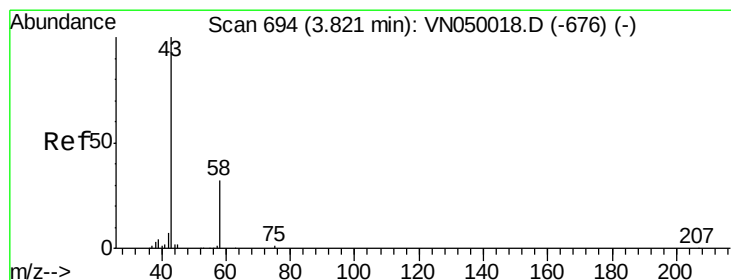
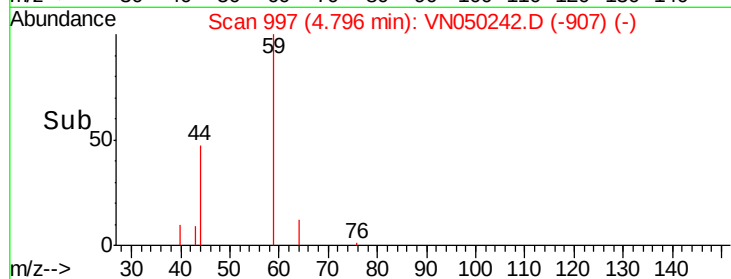
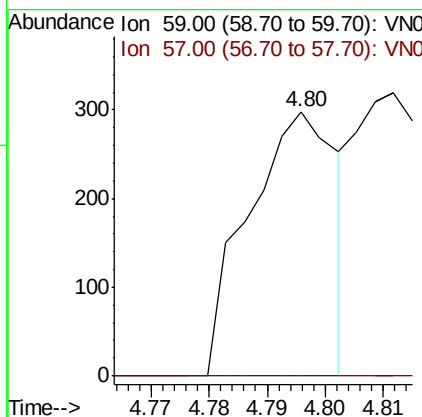
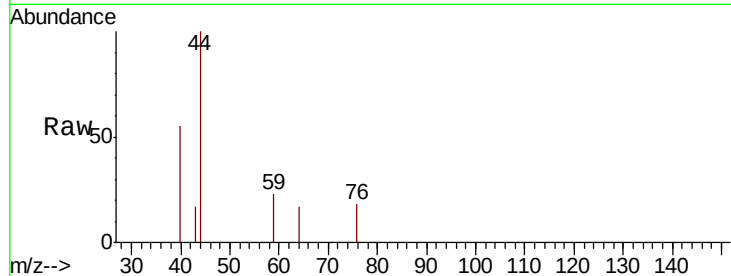




#11
Tert butyl alcohol
Concen: 0.45 ug/l
RT: 4.80 min Scan# 997
Delta R.T. -0.01 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

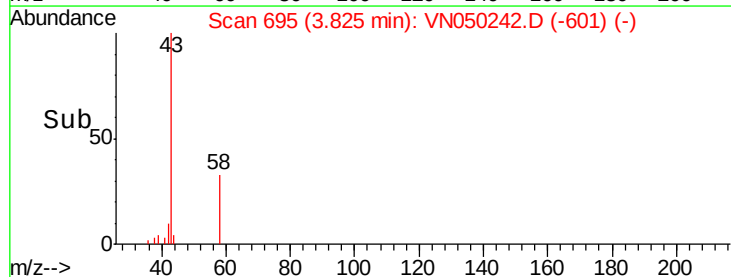
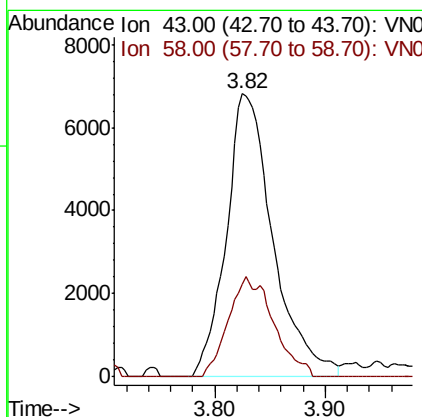
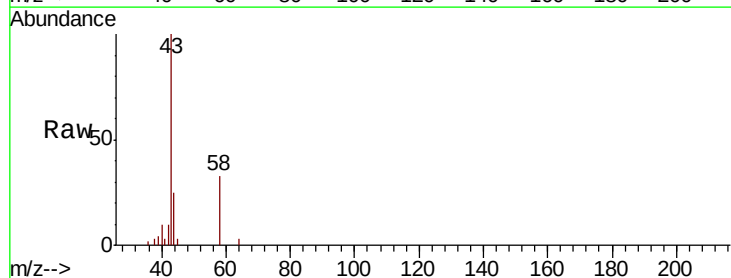
Instrument :
MSVOA_N
ClientSampled :

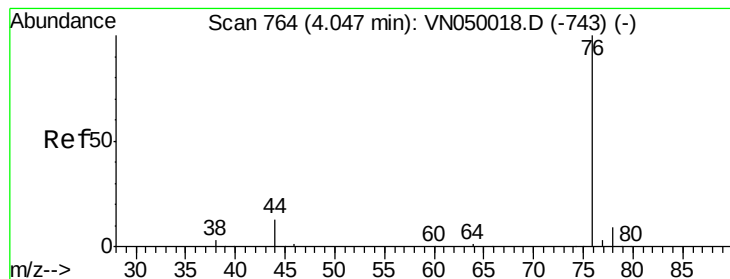
Tot Ion: 59 Resp: 314
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 4.78 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

Tgt Ion: 43 Resp: 20020
Ion Ratio Lower Upper
43 100
58 32.9 25.8 38.8





#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

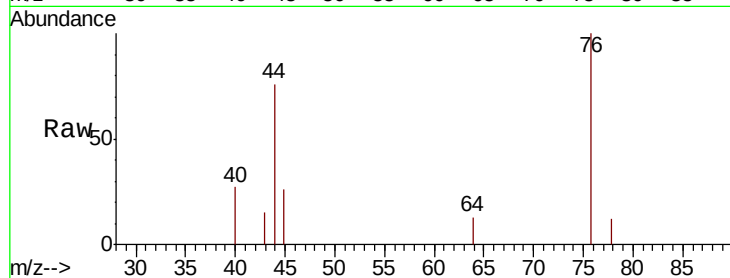
ClientSampled :

Tot Ion: 76 Resp: 5524

Ion Ratio Lower Upper

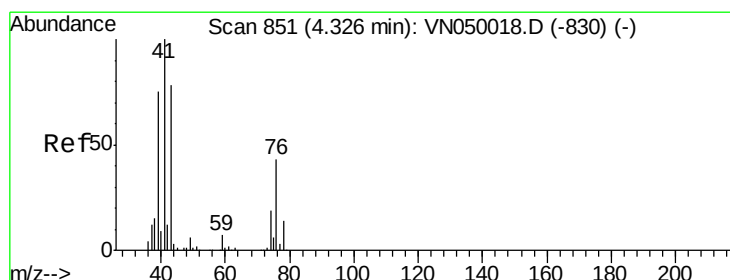
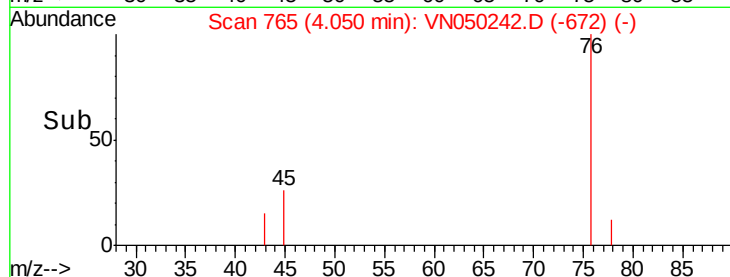
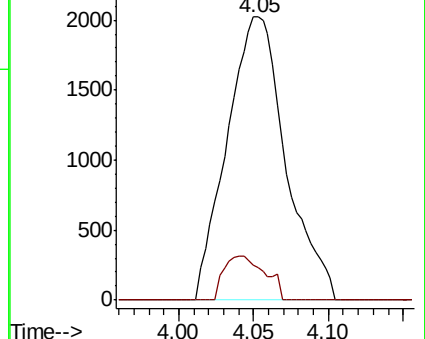
76 100

78 12.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050242.D

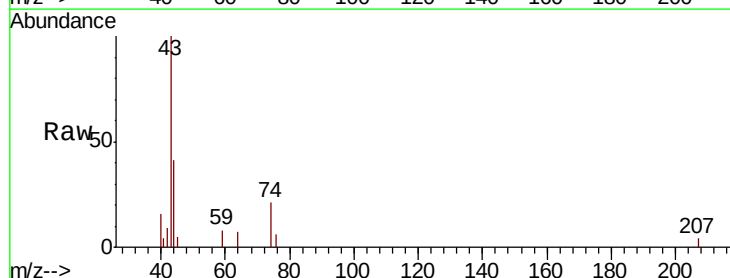
Acq: 1 Aug 2018 12:15

Tgt Ion: 43 Resp: 12219

Ion Ratio Lower Upper

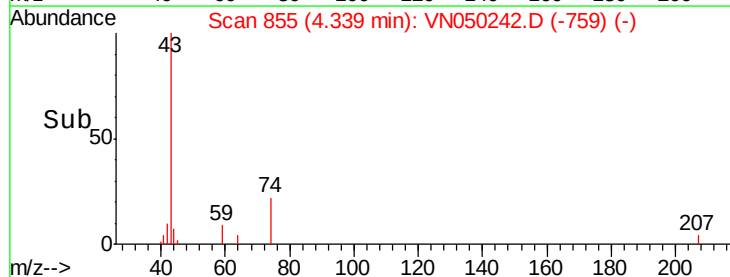
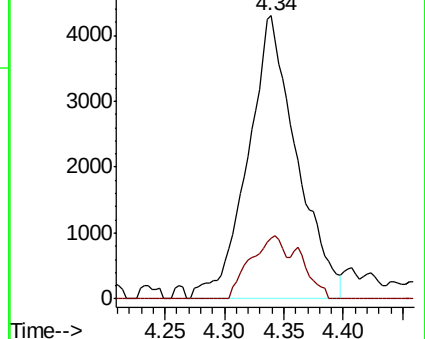
43 100

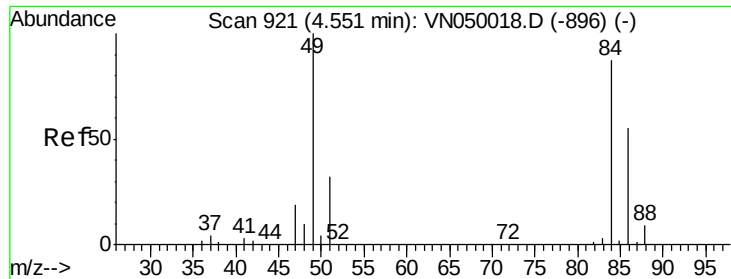
74 16.4 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

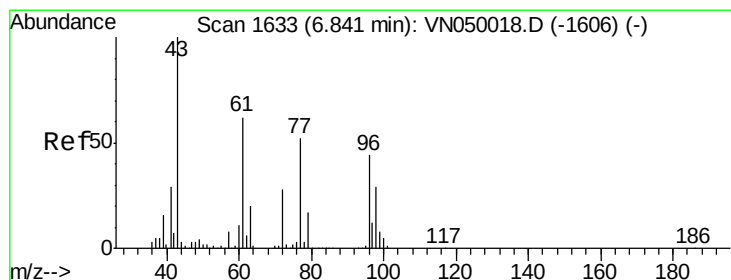
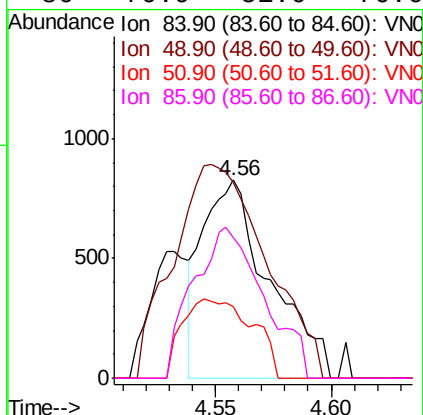
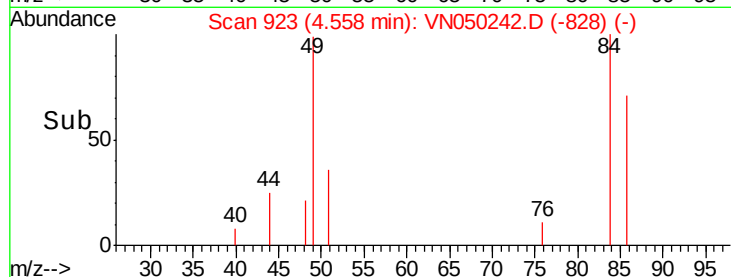
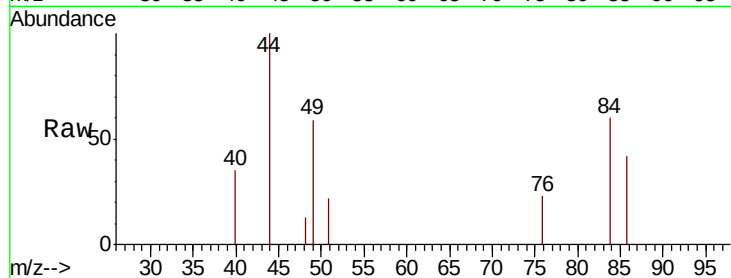




#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

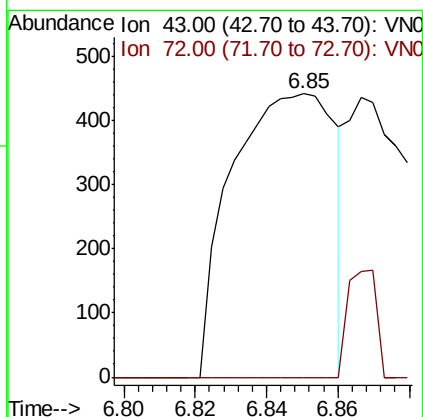
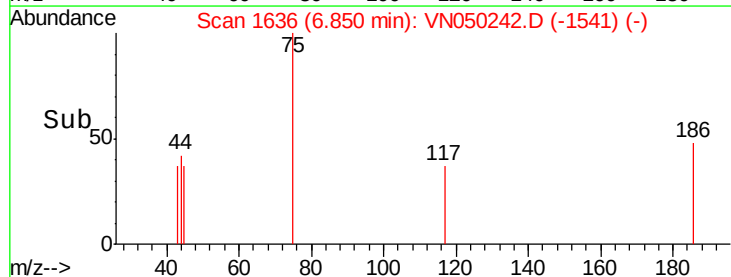
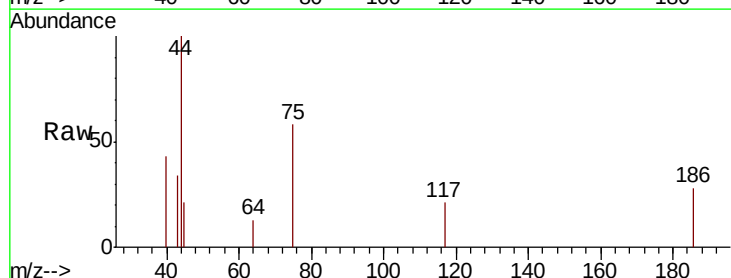
Instrument :
MSVOA_N
ClientSampled :

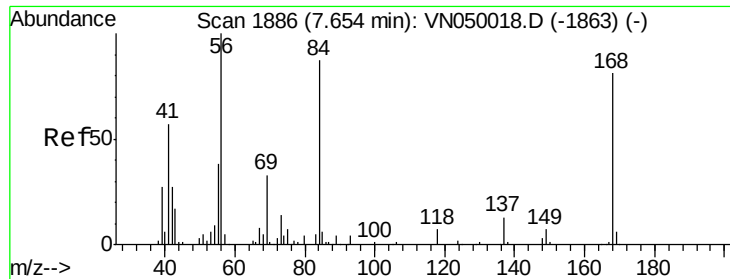
Tot Ion:	84	Resp:	1661
Ion	Ratio	Lower	Upper
84	100		
49	99.0	94.8	142.2
51	36.0	28.3	42.5
86	70.9	51.0	76.6



#25
2-Butanone
Concen: 0.25 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

Tgt Ion:	43	Resp:	880
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.5	32.3#

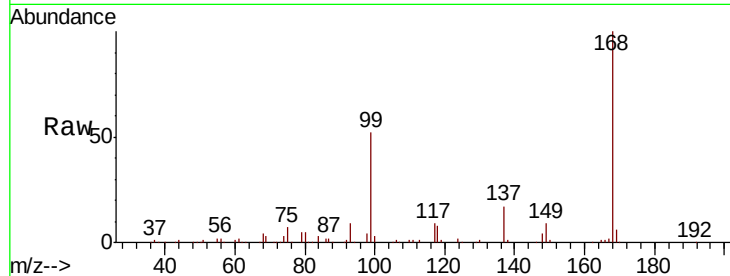




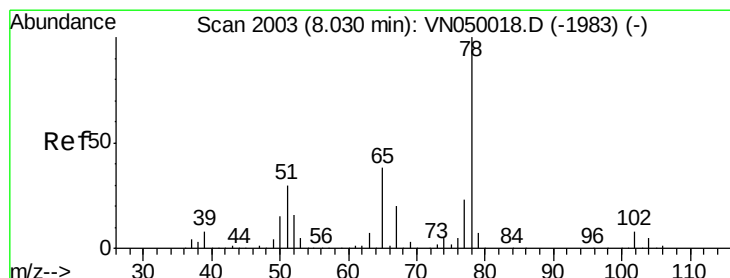
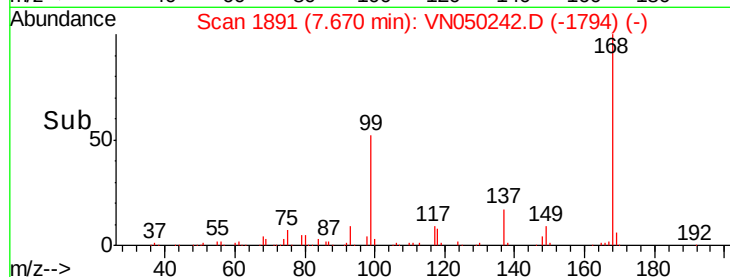
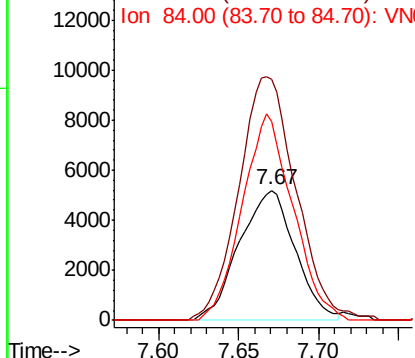
#31
Cyclohexane
Concen: 0.90 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 12466
Ion Ratio Lower Upper
56 100
69 185.3 26.2 39.4#
84 152.8 67.4 101.0#

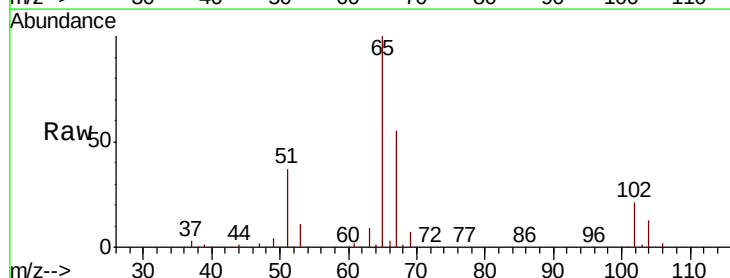


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

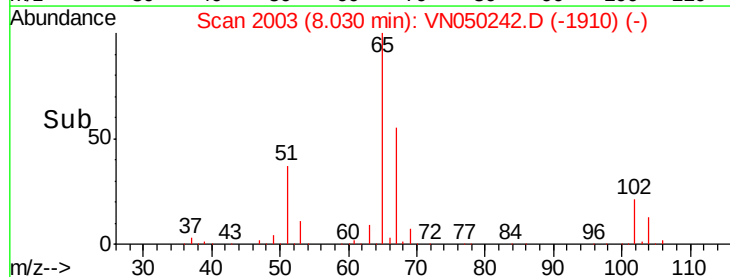
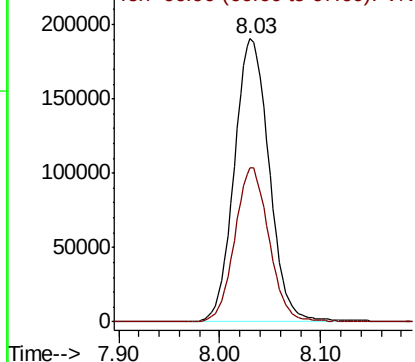


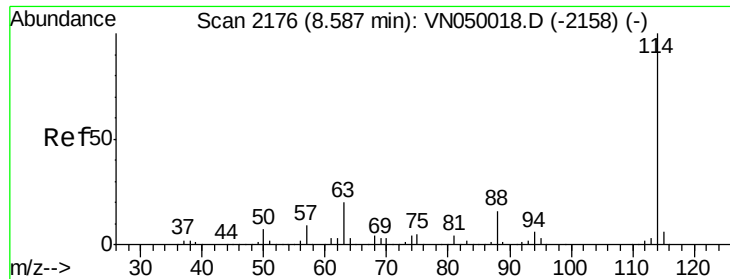
#33
1,2-Dichloroethane-d4
Concen: 48.61 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

Tgt Ion: 65 Resp: 456913
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0



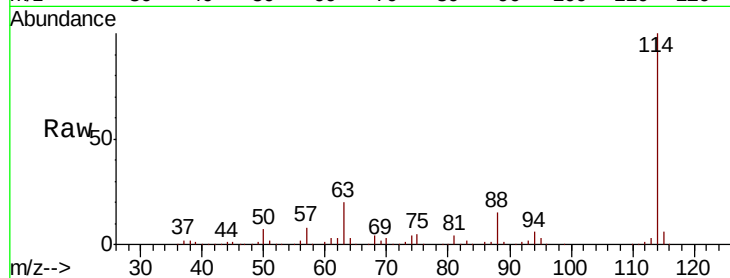


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

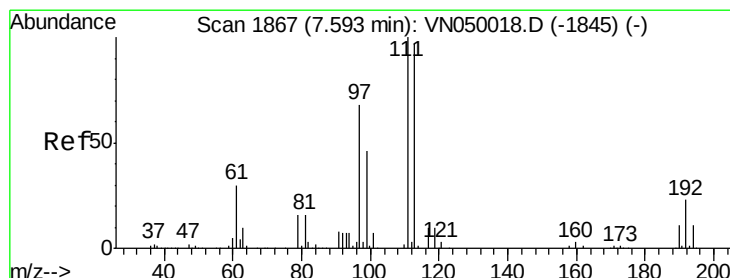
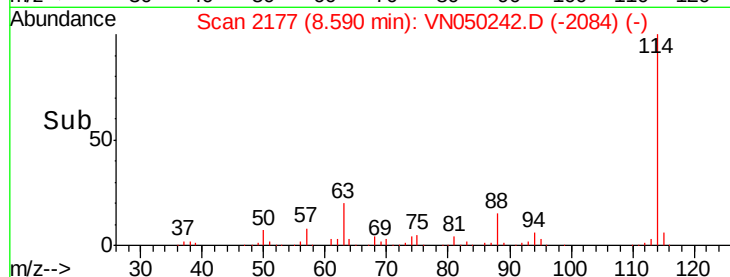
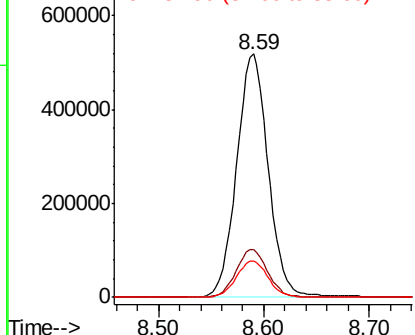
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1076367

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	40.0
88	14.8	0.0	31.2



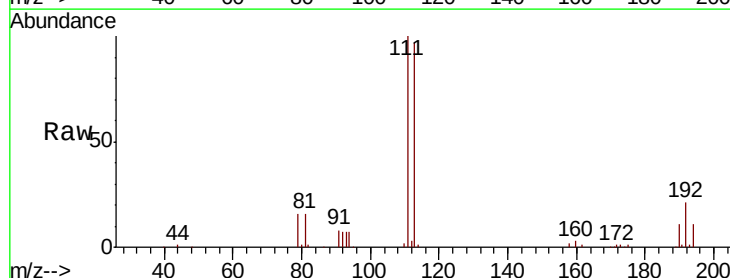
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



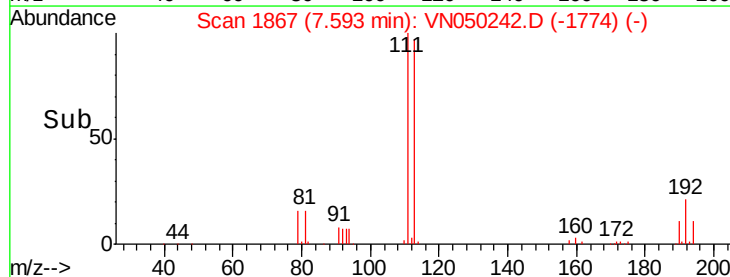
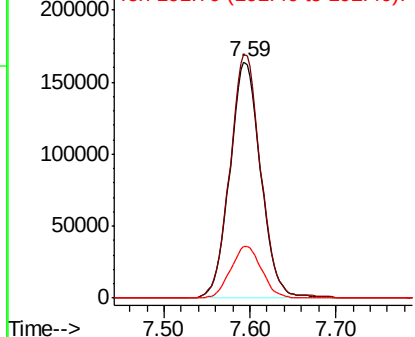
#35
 Dibromofluoromethane
 Concen: 46.61 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

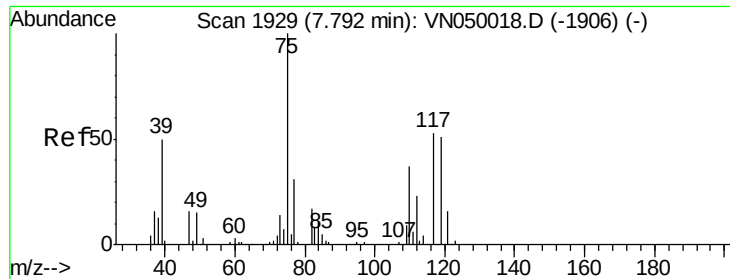
Tgt Ion:113 Resp: 409645

Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.7	121.1
192	22.0	17.8	26.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

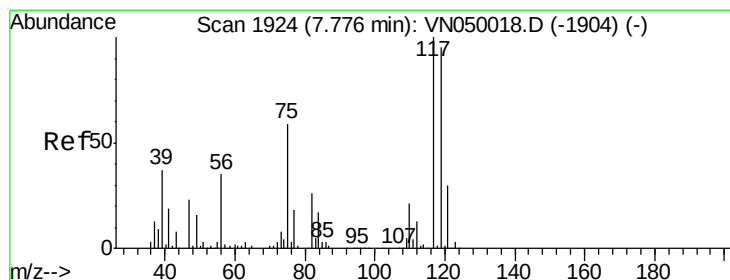
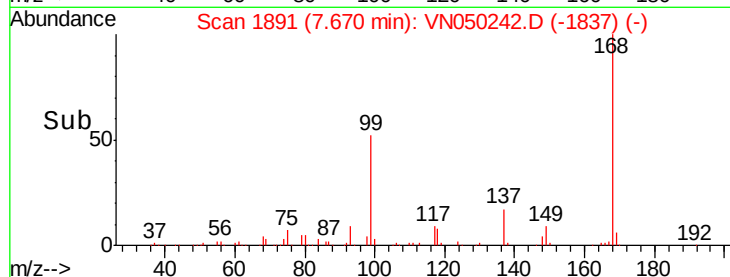
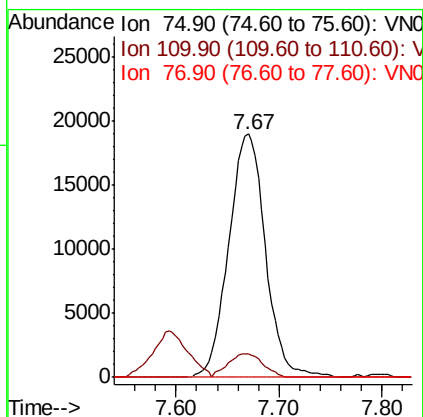
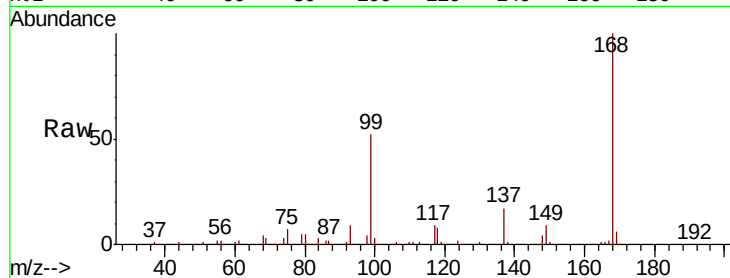




#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

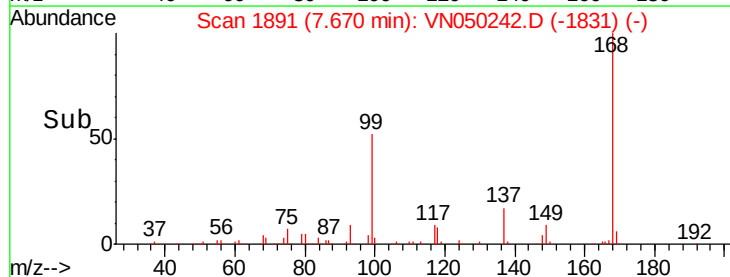
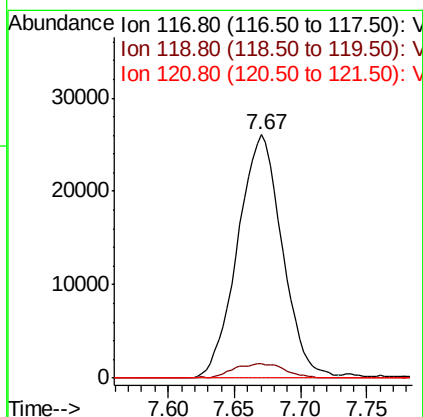
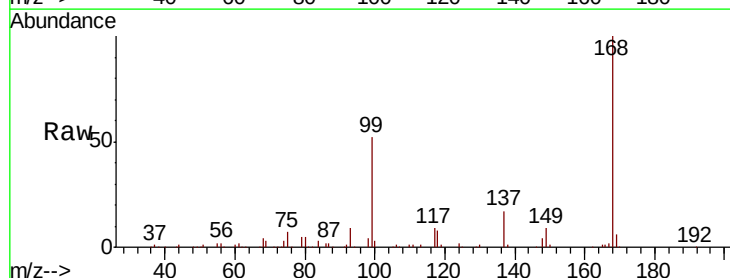
Instrument :
 MSVOA_N
 ClientSampled :

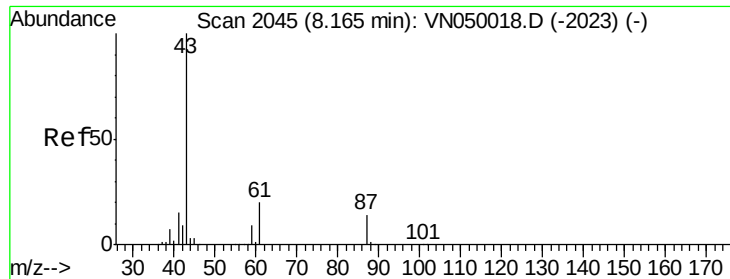
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.73 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	77.4	116.0#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 8.67 ug/l

RT: 8.26 min Scan# 2073

Delta R.T. 0.09 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

ClientSampled :

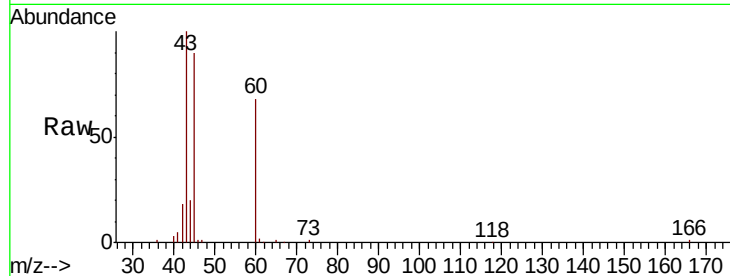
Tot Ion: 43 Resp: 153209

Ion Ratio Lower Upper

43 100

61 0.3 15.8 23.6#

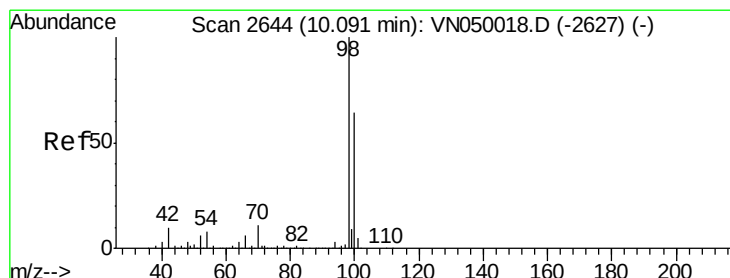
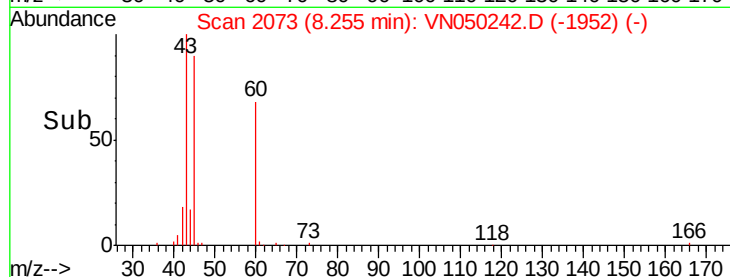
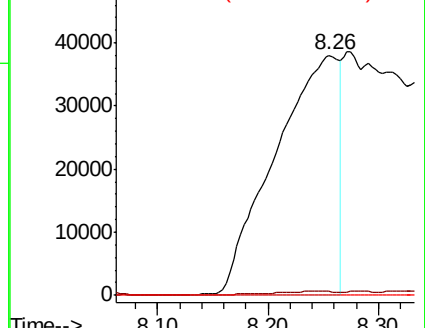
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 45.21 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050242.D

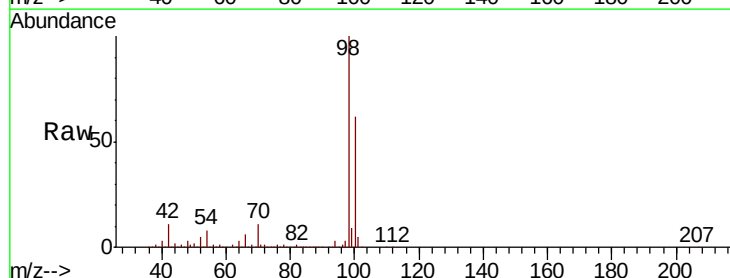
Acq: 1 Aug 2018 12:15

Tgt Ion: 98 Resp: 1460799

Ion Ratio Lower Upper

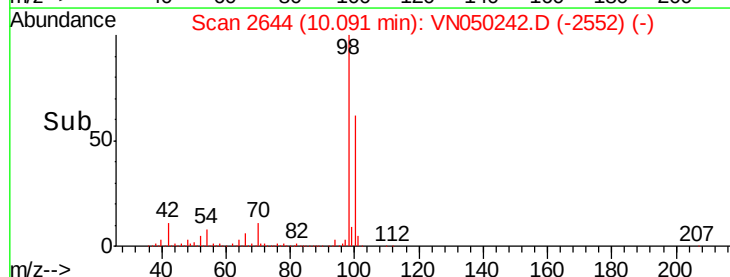
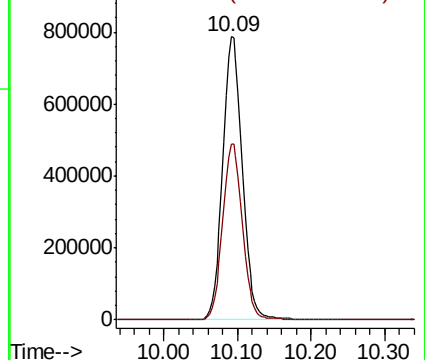
98 100

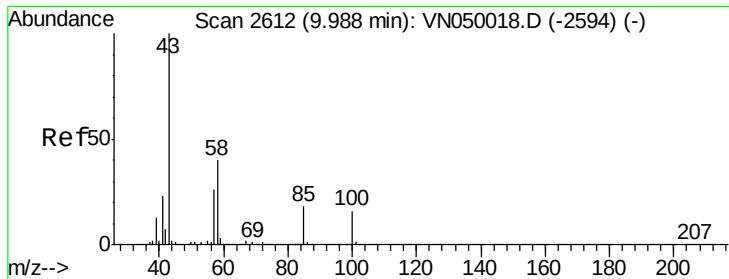
100 62.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

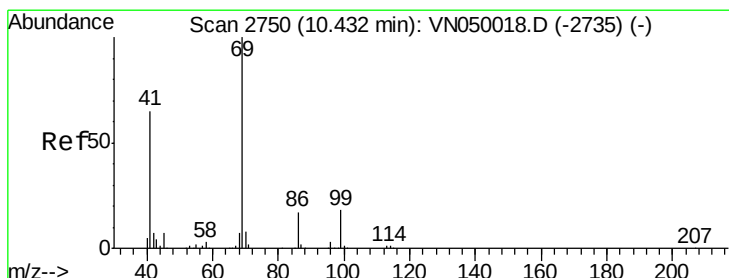
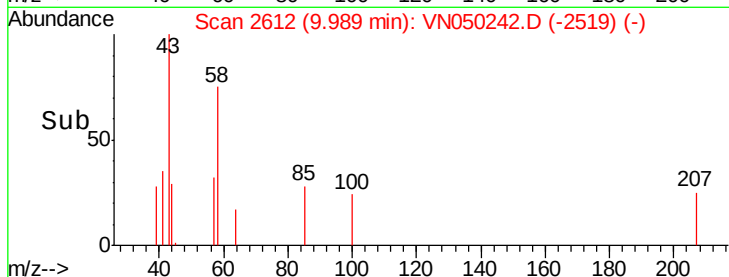
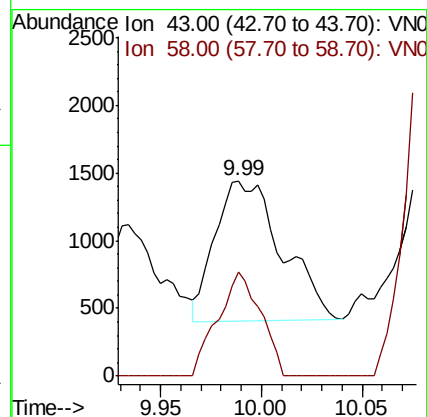
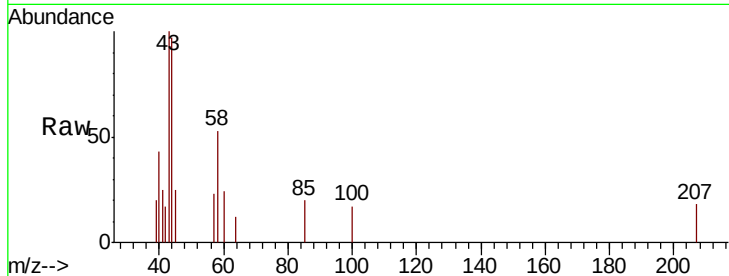
ClientSampled :

Tot Ion: 43 Resp: 2388

Ion Ratio Lower Upper

43 100

58 47.6 31.9 47.9



#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.26 min Scan# 2696

Delta R.T. -0.17 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

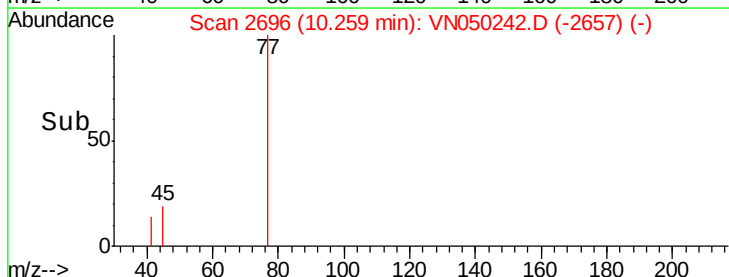
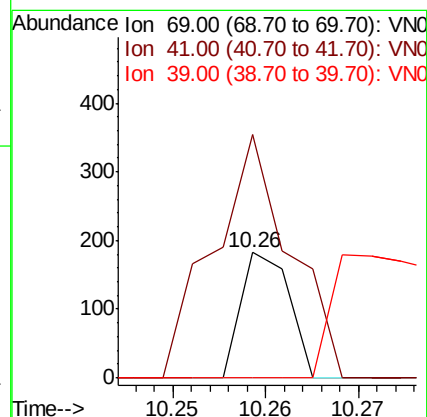
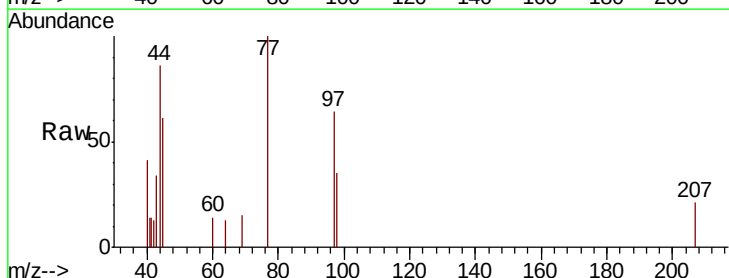
Tgt Ion: 69 Resp: 66

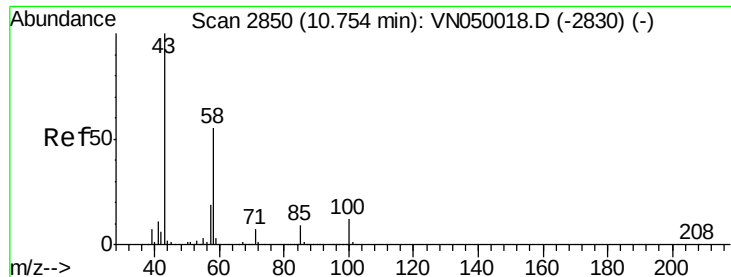
Ion Ratio Lower Upper

69 100

41 307.6 51.0 76.4#

39 201.5 26.6 40.0#





#59

2-Hexanone

Concen: 5.22 ug/l

RT: 10.72 min Scan# 2838

Delta R.T. -0.04 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

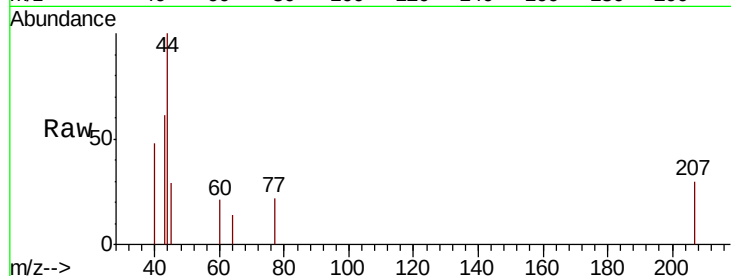
ClientSampleId :

Tot Ion: 43 Resp: 284

Ion Ratio Lower Upper

43 100

58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.72

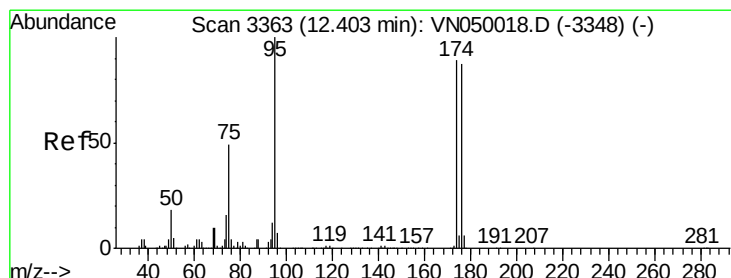
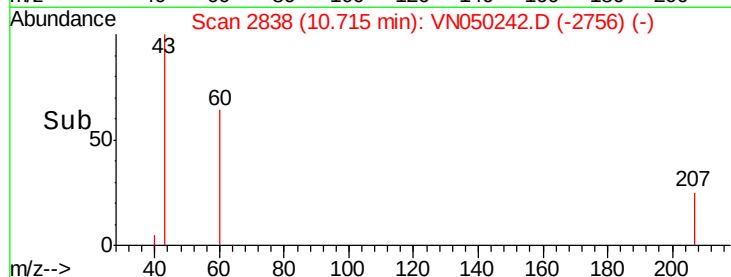
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 35.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

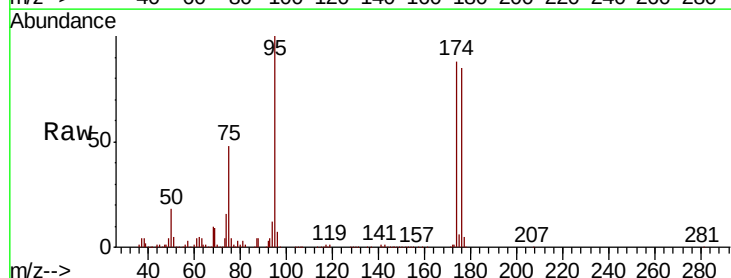
Tgt Ion: 95 Resp: 376860

Ion Ratio Lower Upper

95 100

174 89.7 0.0 178.2

176 86.3 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

300000

250000

200000

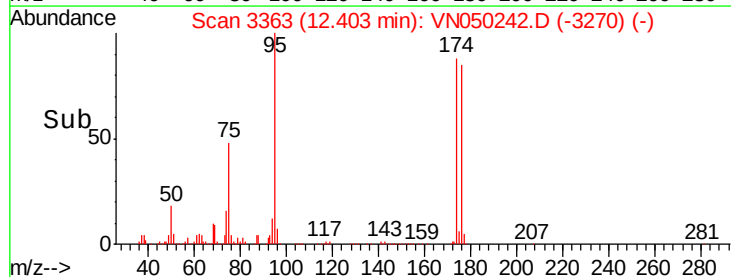
150000

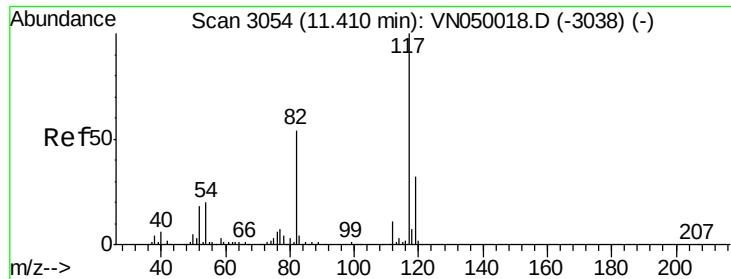
100000

50000

0

Time-->

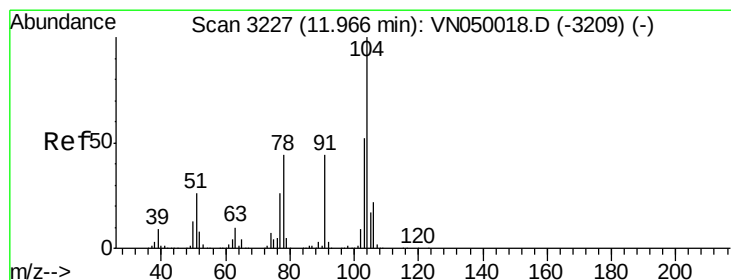
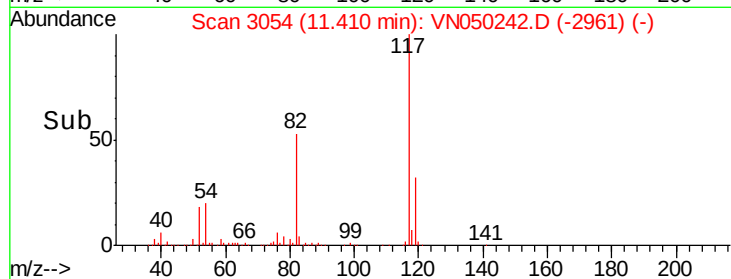
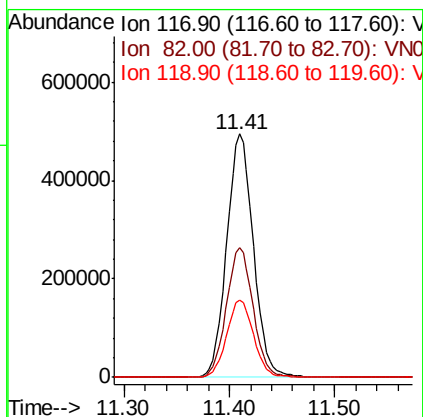
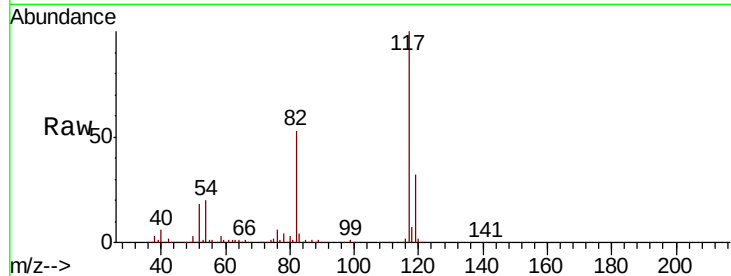




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

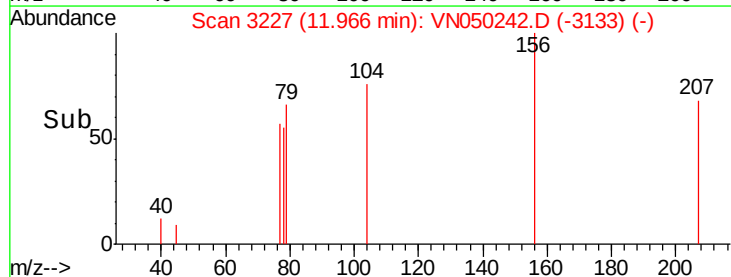
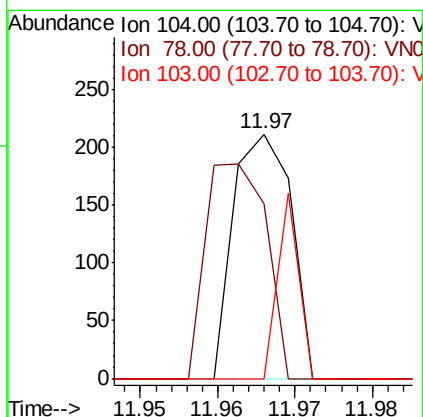
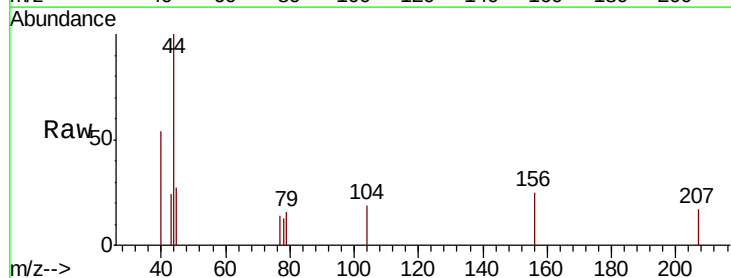
Instrument :
MSVOA_N
ClientSampled :

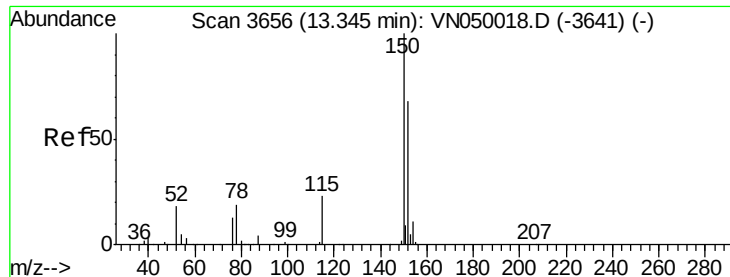
Tot Ion:117 Resp: 861343
Ion Ratio Lower Upper
117 100
82 53.3 43.7 65.5
119 32.0 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050242.D
Acq: 1 Aug 2018 12:15

Tgt Ion:104 Resp: 110
Ion Ratio Lower Upper
104 100
78 90.9 39.3 58.9#
103 28.2 45.0 67.6#

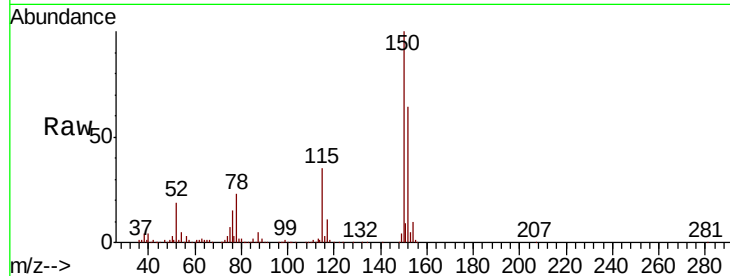




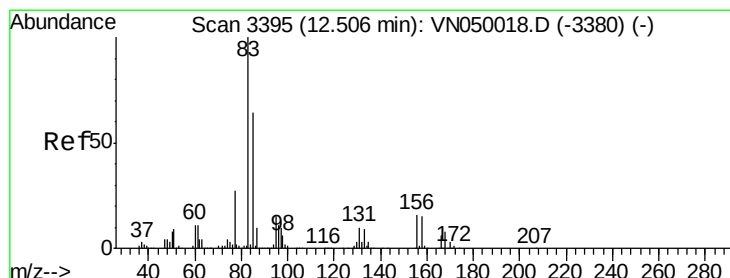
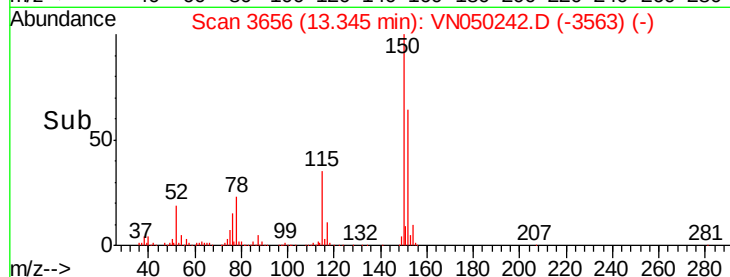
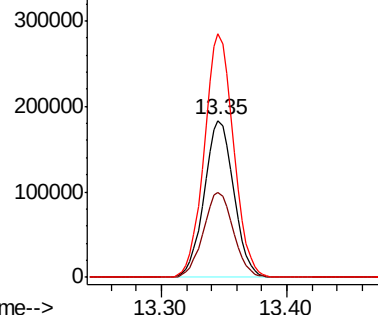
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3656
 Delta R.T. 0.00 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.3
150	153.9	0.0	348.6

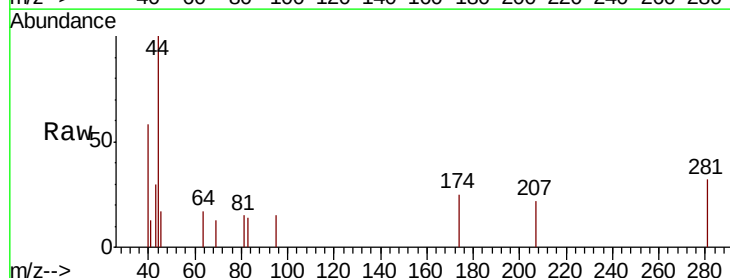


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

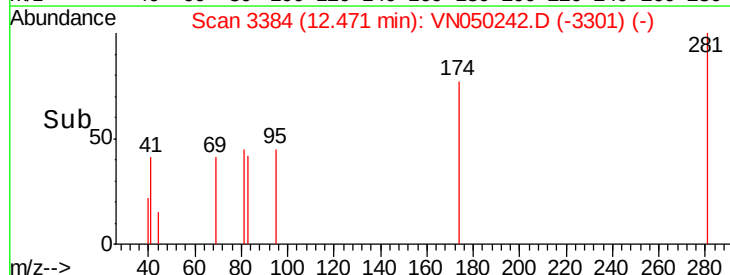
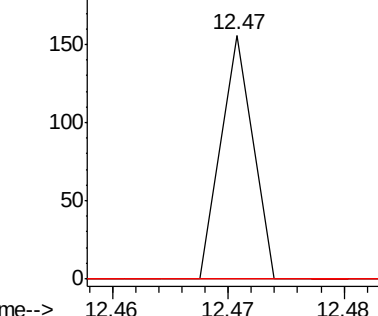


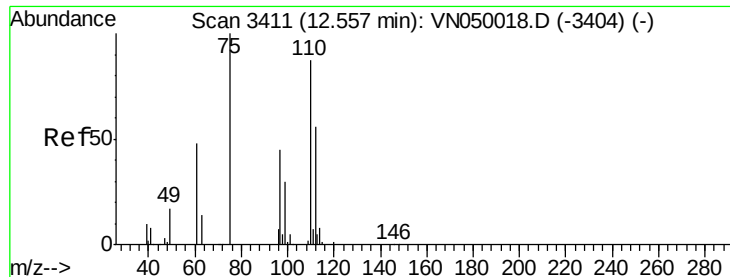
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.47 min Scan# 3384
 Delta R.T. -0.03 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.1	15.3#
85	0.0	32.3	96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 32.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

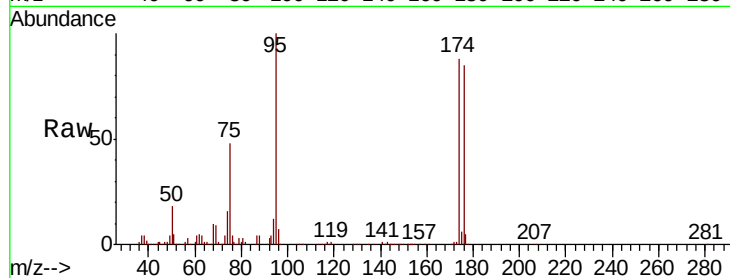
ClientSampleId :

Tot Ion: 75 Resp: 182423

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3404) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3404) (-)

12.40

120000

100000

80000

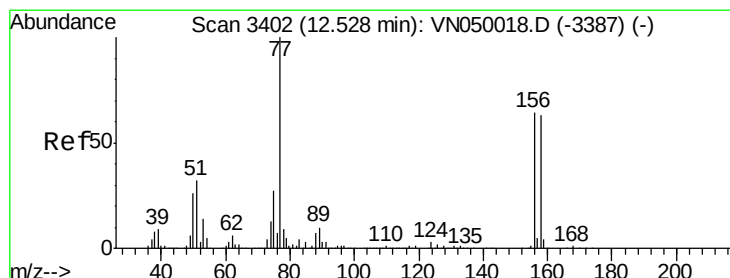
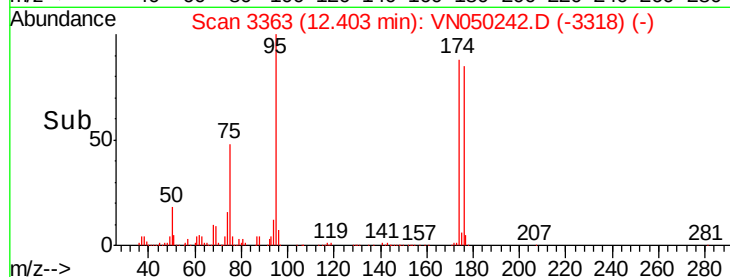
60000

40000

20000

0

Time-->



#77

Bromobenzene

Concen: 0.31 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

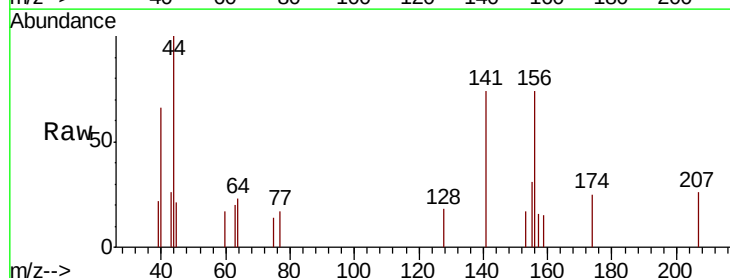
Tgt Ion: 156 Resp: 1981

Ion Ratio Lower Upper

156 100

77 0.0 91.7 275.1#

158 0.0 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): VN050018.D (-3387) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3387) (-)

Ion 157.80 (157.50 to 158.50): VN050018.D (-3387) (-)

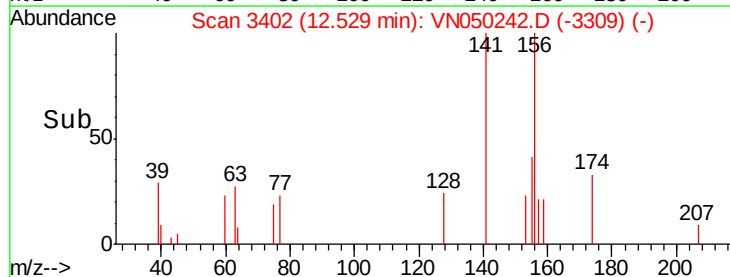
1500

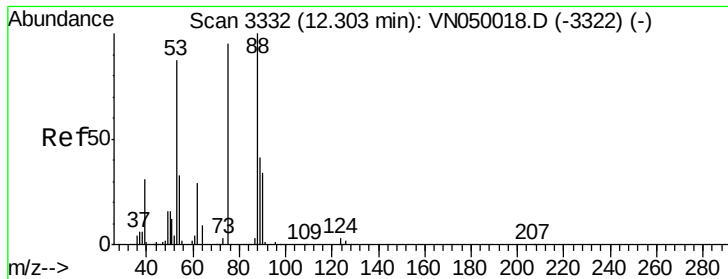
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 104.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

ClientSampleId :

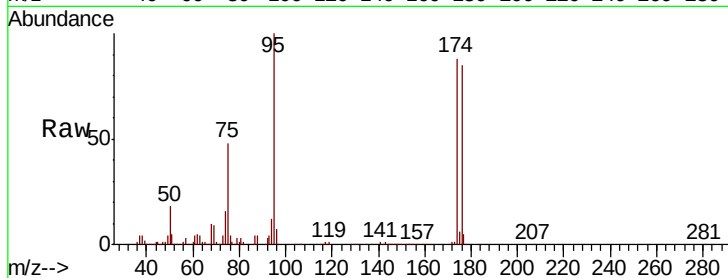
Tot Ion: 75 Resp: 182423

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

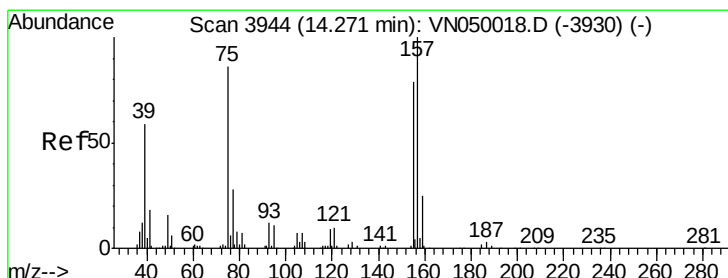
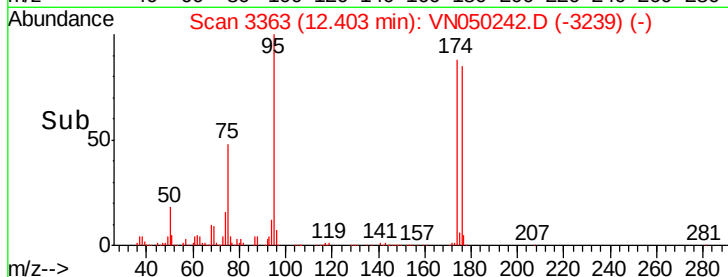
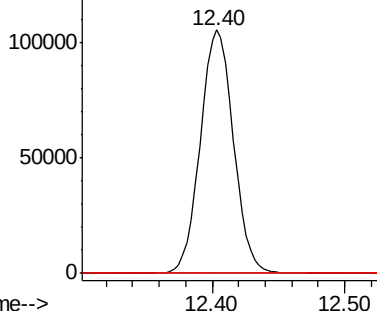
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.48 min Scan# 4008

Delta R.T. 0.21 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

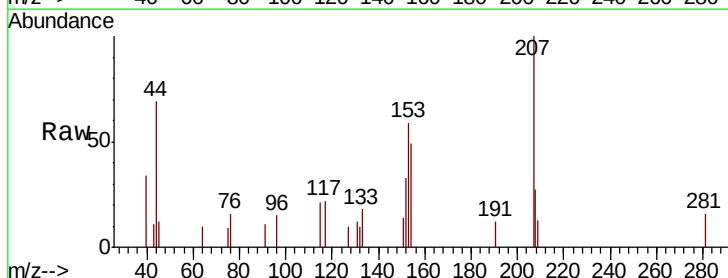
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

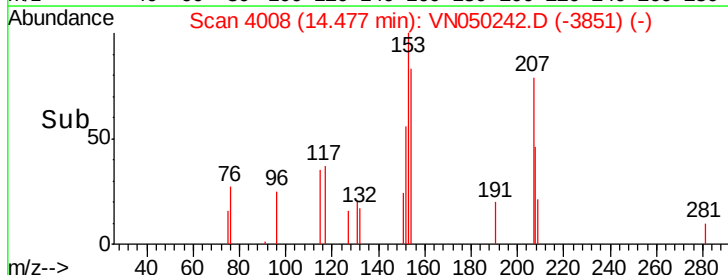
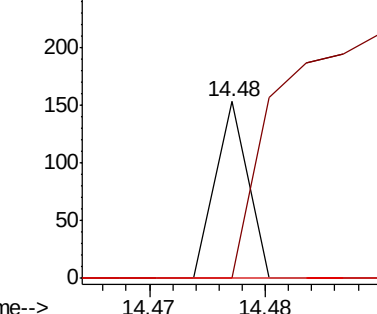
157 0.0 57.2 171.6#

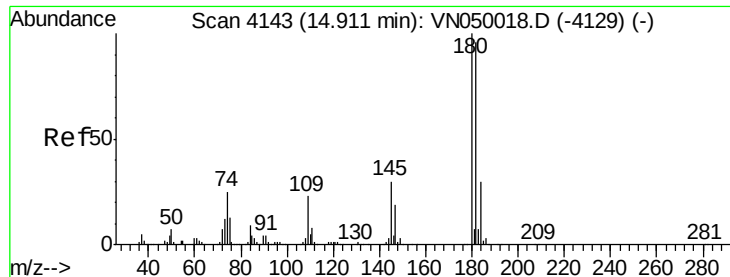


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 3.10 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

Instrument :

MSVOA_N

ClientSampled :

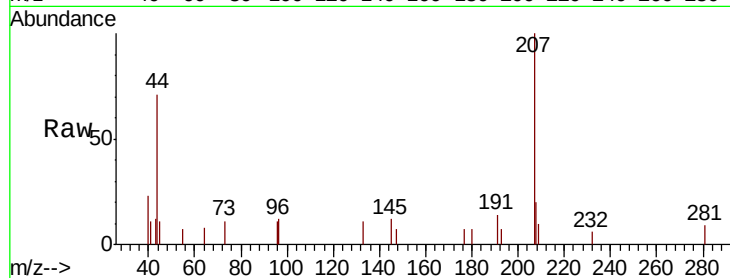
Tot Ion:180 Resp: 97

Ion Ratio Lower Upper

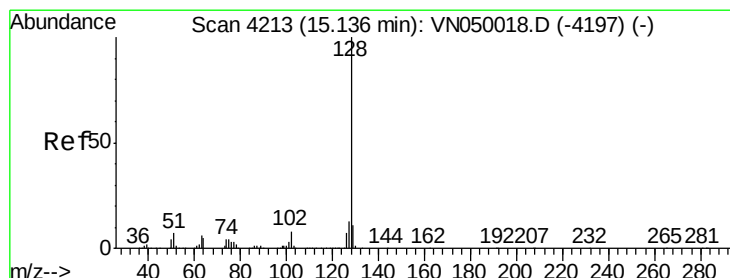
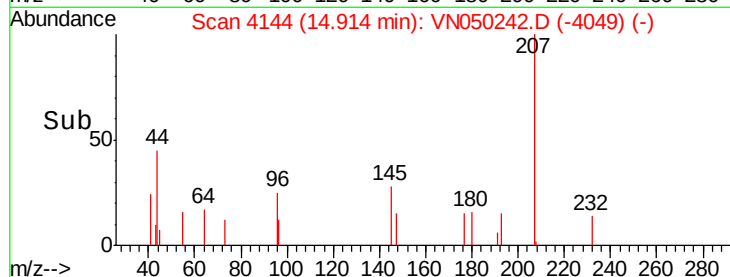
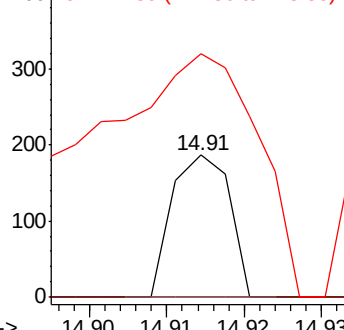
180 100

182 0.0 46.7 140.1#

145 403.1 13.8 41.4#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.51 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050242.D

Acq: 1 Aug 2018 12:15

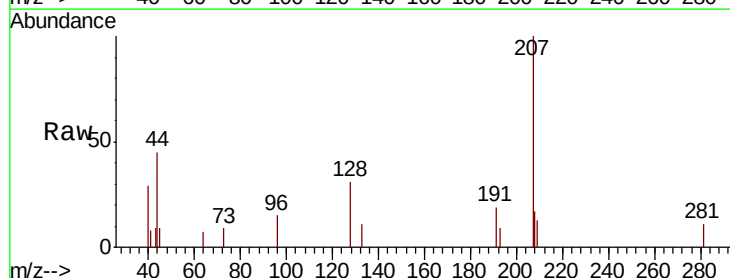
Tgt Ion:128 Resp: 1432

Ion Ratio Lower Upper

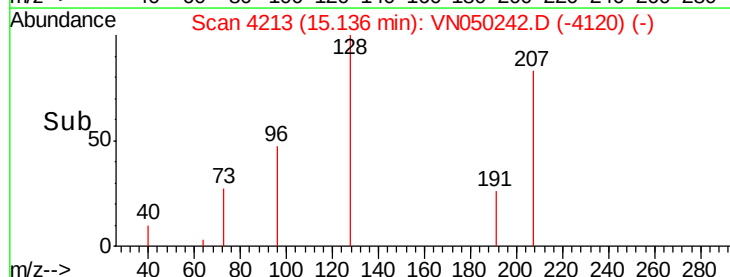
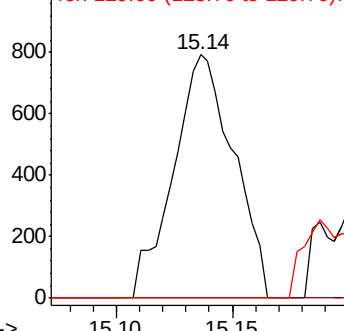
128 100

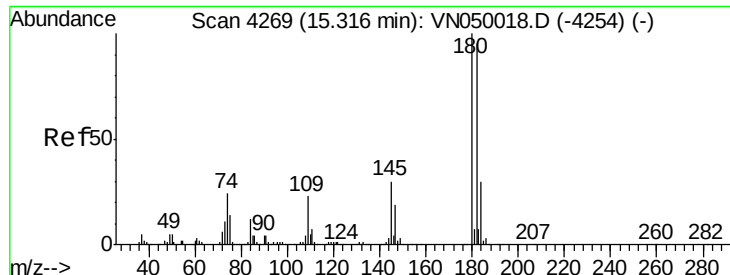
127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

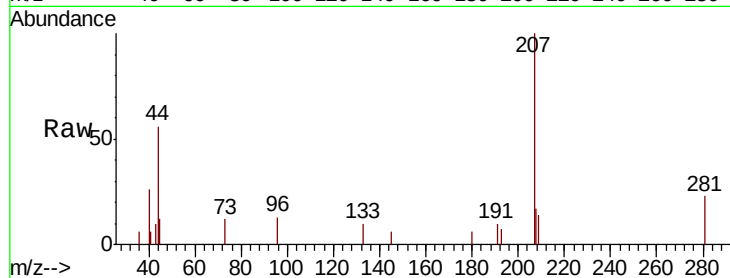




#96
 1,2,3-Trichlorobenzene
 Concen: 2.21 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN050242.D
 Acq: 1 Aug 2018 12:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.4#
145	320.7	15.3	45.9#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

