

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052911.D
 Acq On : 15 Dec 2018 1:19
 Operator : MD\SY
 Sample : J6390-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 03:04:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1347783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2071240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1814823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	756513	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	679902	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
35) Dibromofluoromethane	7.59	113	540688	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
50) Toluene-d8	10.09	98	2506207	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	12.40	95	818840	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	

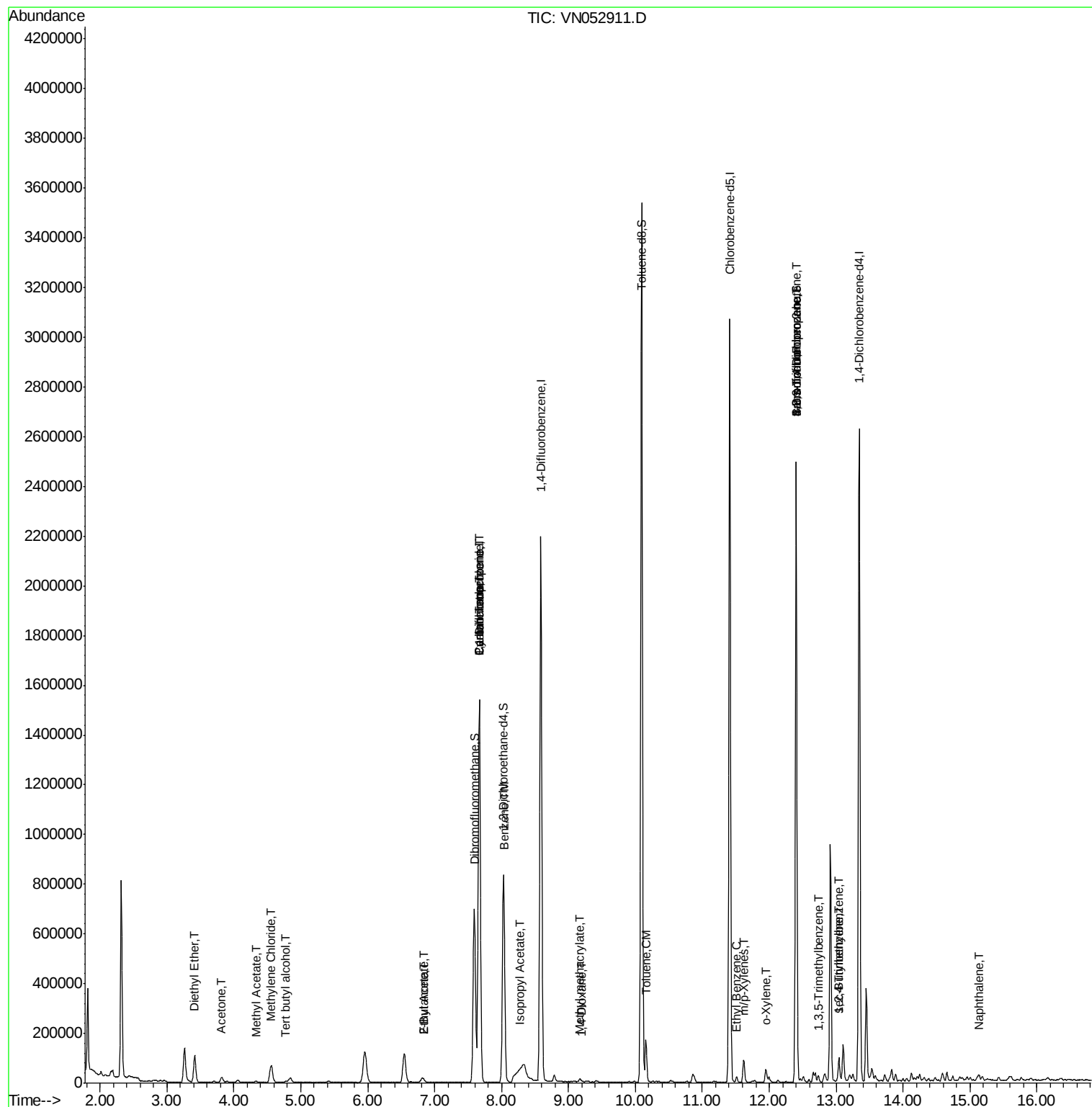
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	58428	7.755	ug/l	100
11) Tert butyl alcohol	4.77	59	10428	13.023	ug/l #	81
16) Acetone	3.82	43	37228	11.567	ug/l	98
18) Methyl Acetate	4.33	43	8455	0.716	ug/l #	84
20) Methylene Chloride	4.56	84	53941	3.724	ug/l	99
25) 2-Butanone	6.84	43	7532	1.508	ug/l	91
31) Cyclohexane	7.67	56	23044	0.373	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	90384	4.739	ug/l #	48
37) Ethyl Acetate	6.84	43	7532	0.657	ug/l #	68
38) Carbon Tetrachloride	7.67	117	117690	6.704	ug/l #	16
40) Benzene	8.05	78	52153	0.911	ug/l	99
43) Isopropyl Acetate	8.26	43	73769	3.140	ug/l #	53
48) Methyl methacrylate	9.17	41	3573	0.347	ug/l #	34
49) 1,4-Dioxane	9.20	88	575	4.917	ug/l #	49
52) Toluene	10.16	92	73300	2.114	ug/l	97
67) Ethyl Benzene	11.51	91	16180	0.250	ug/l	98
68) m/p-Xylenes	11.62	106	29447	1.213	ug/l	96
69) o-Xylene	11.95	106	12633	0.533	ug/l	98
71) Bromoform	12.41	173	4550	0.511	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	388438	34.802	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	12498	0.274	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	388438	111.800	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	54635	1.184	ug/l	99
85) sec-Butylbenzene	13.04	105	54635	1.003	ug/l #	56
95) Naphthalene	15.13	128	19585	0.708	ug/l #	95

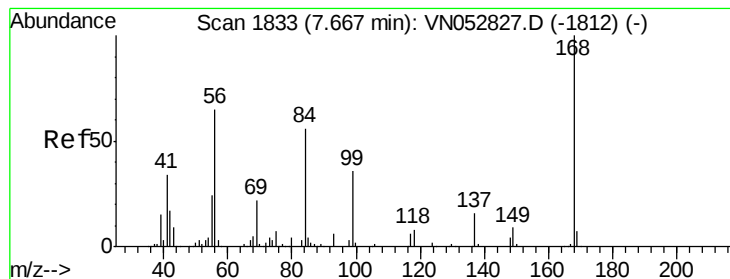
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Dec 15 03:04:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052911.D

Acq: 15 Dec 2018 1:19

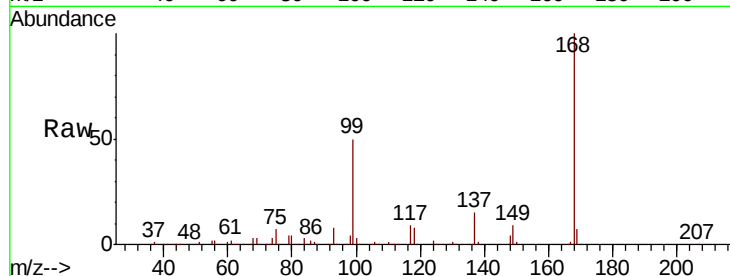
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1347783

Ion Ratio Lower Upper

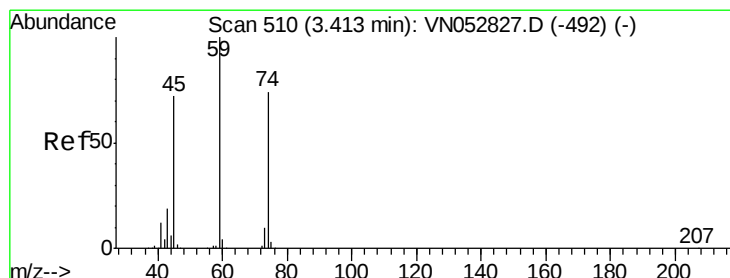
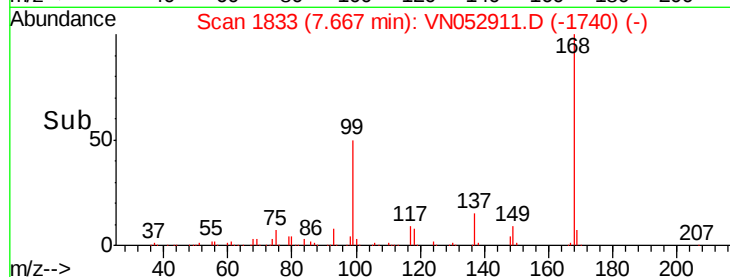
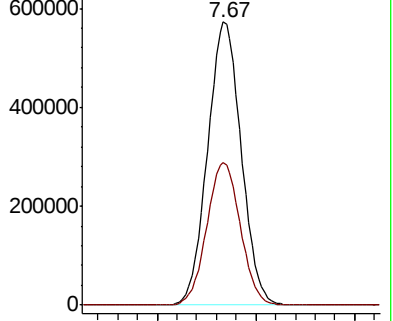
168 100

99 50.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 7.755 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN052911.D

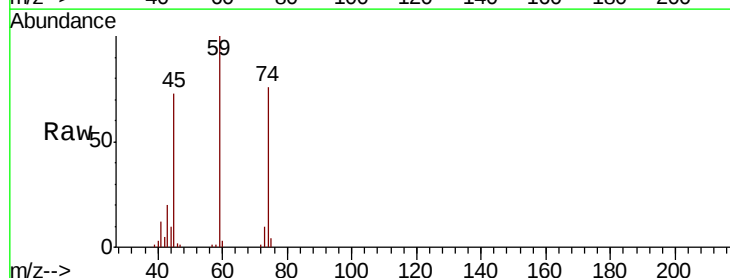
Acq: 15 Dec 2018 1:19

Tgt Ion: 74 Resp: 58428

Ion Ratio Lower Upper

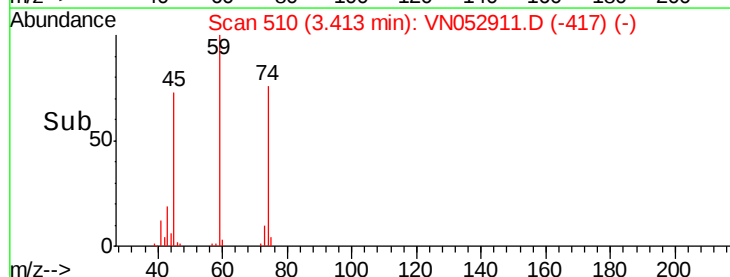
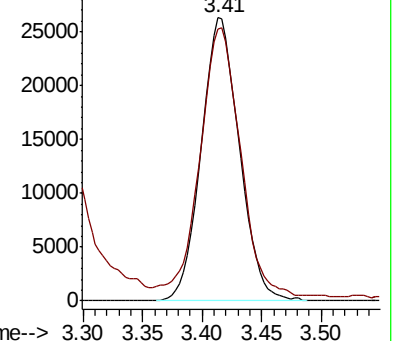
74 100

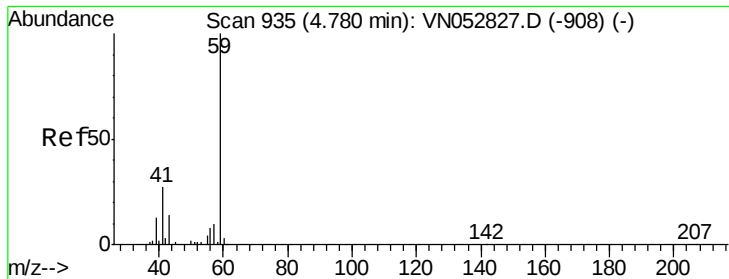
45 98.9 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO



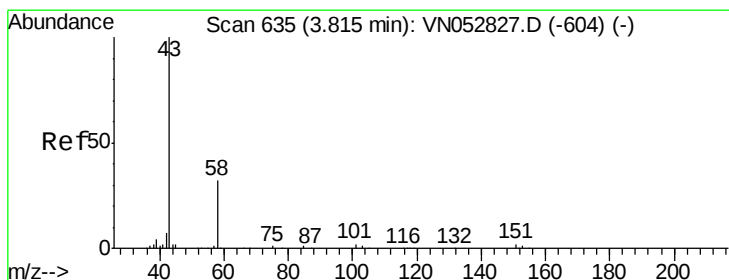
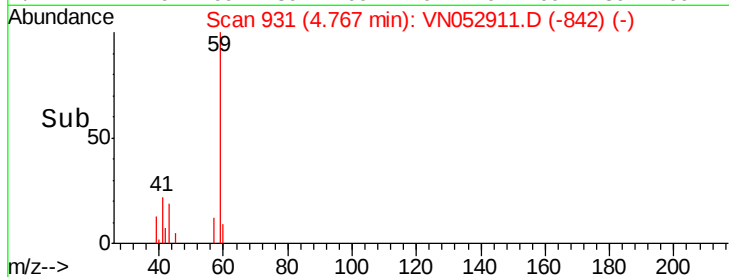
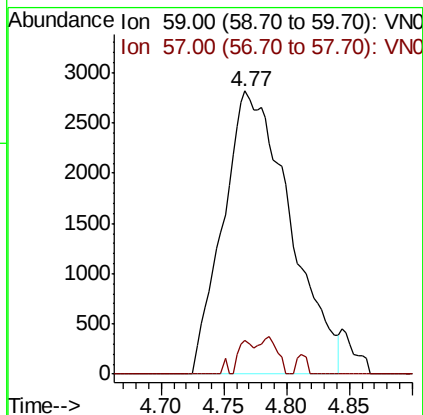
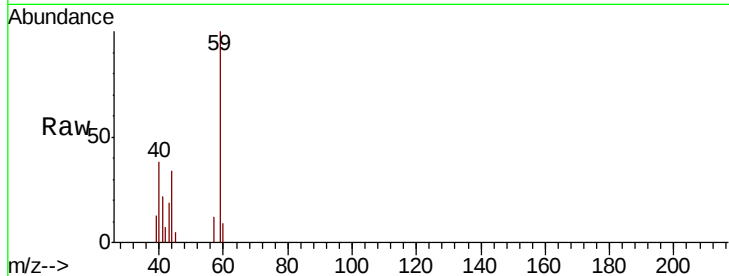


#11

Tert butyl alcohol
 Concen: 13.023 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. -0.01 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

Instrument :
 MSVOA_N
 ClientSampleId :

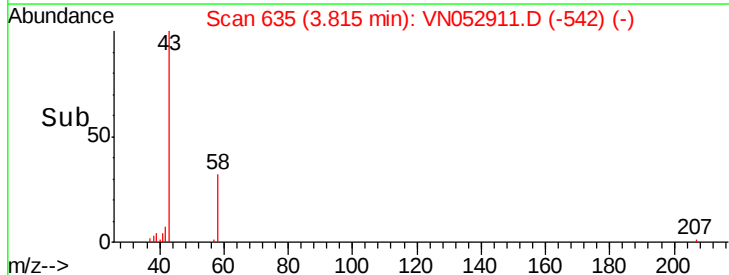
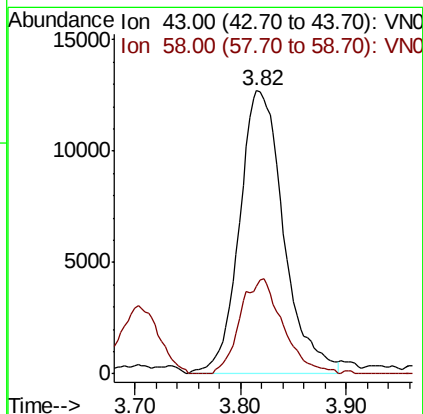
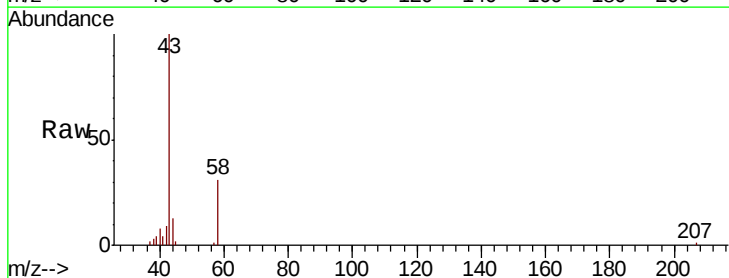
Tot Ion: 59 Resp: 10428
 Ion Ratio Lower Upper
 59 100
 57 2.6 7.7 11.5#

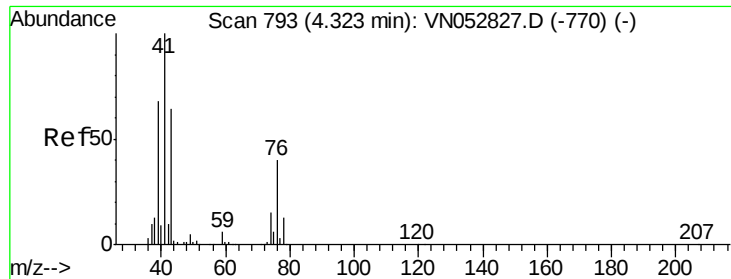


#16

Acetone
 Concen: 11.567 ug/l
 RT: 3.82 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

Tgt Ion: 43 Resp: 37228
 Ion Ratio Lower Upper
 43 100
 58 30.8 25.4 38.0

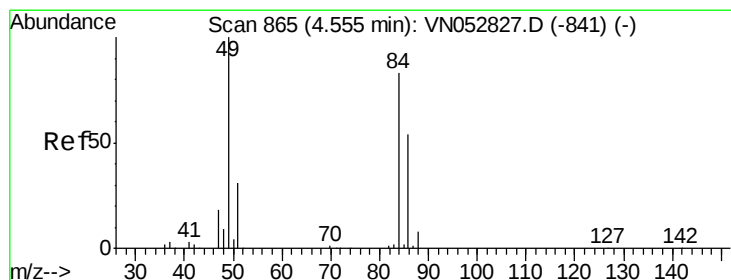
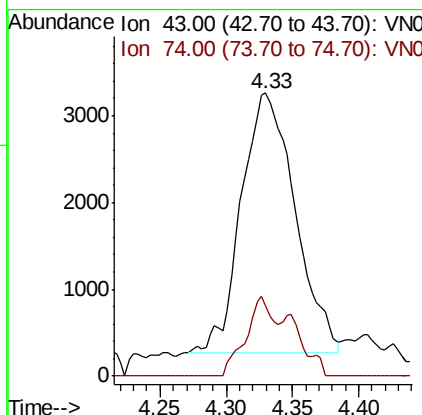
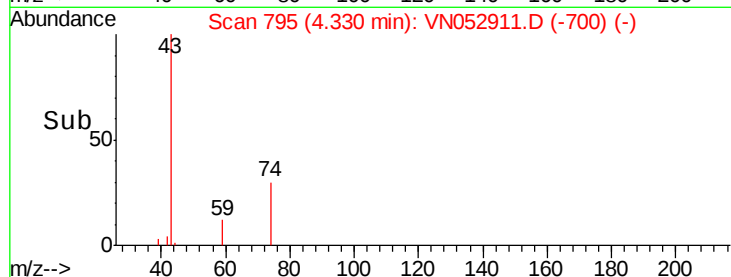
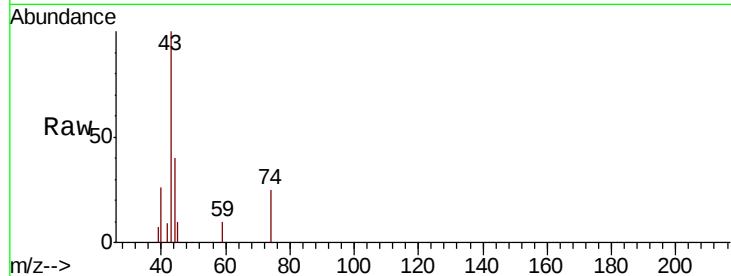




#18
Methvl Acetate
Concen: 0.716 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

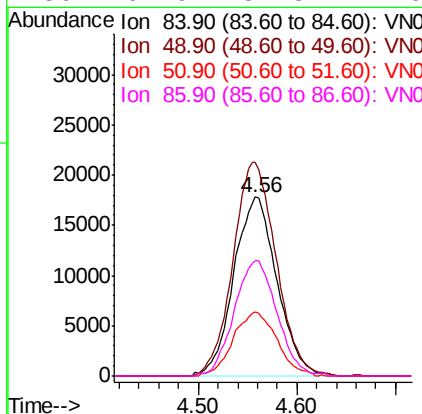
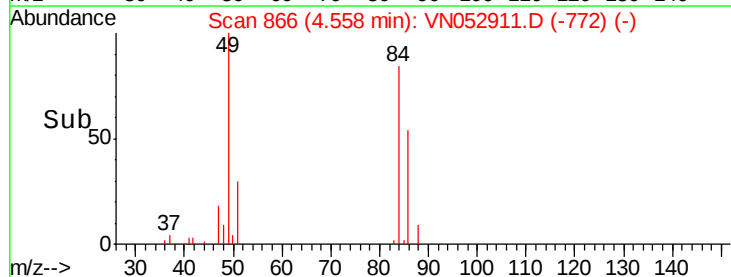
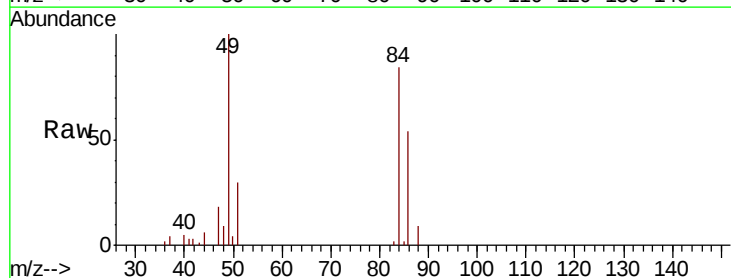
Instrument :
MSVOA_N
ClientSampleId :

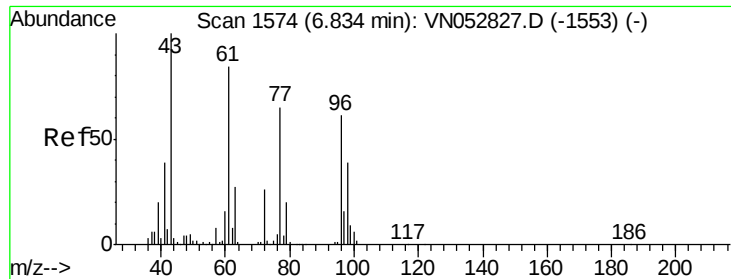
Tot Ion: 43 Resp: 8455
Ion Ratio Lower Upper
43 100
74 16.0 19.2 28.8#



#20
Methylene Chloride
Concen: 3.724 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 84 Resp: 53941
Ion Ratio Lower Upper
84 100
49 119.3 96.8 145.2
51 35.8 29.9 44.9
86 64.9 51.8 77.6

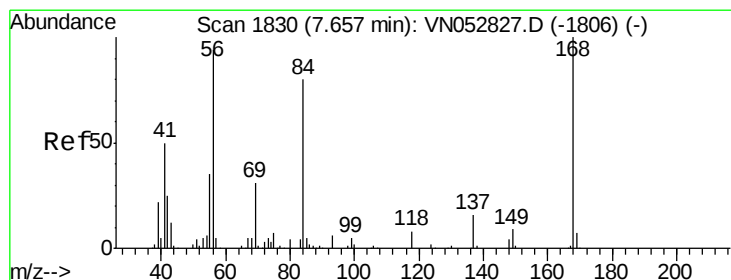
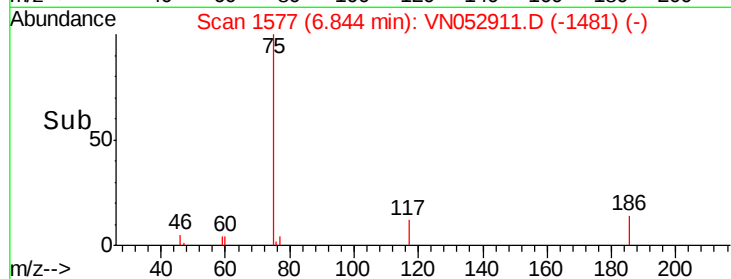
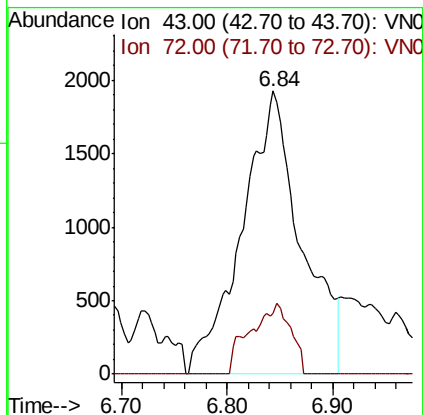
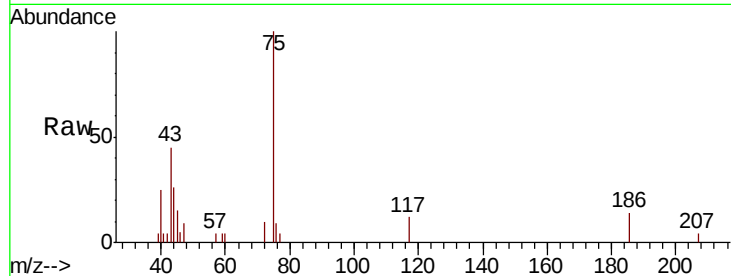




#25
2-Butanone
Concen: 1.508 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

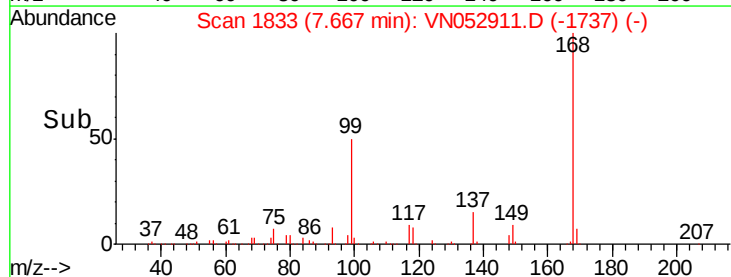
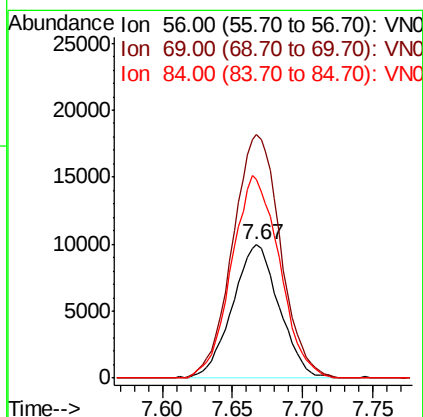
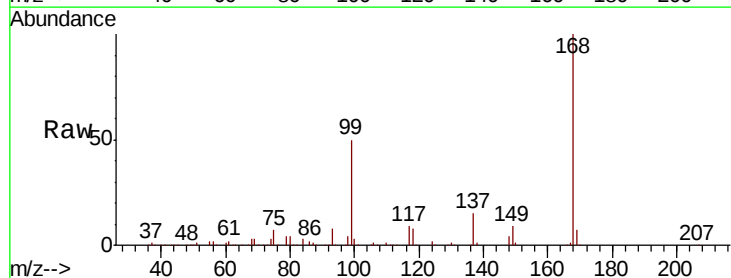
Instrument :
MSVOA_N
ClientSampleId :

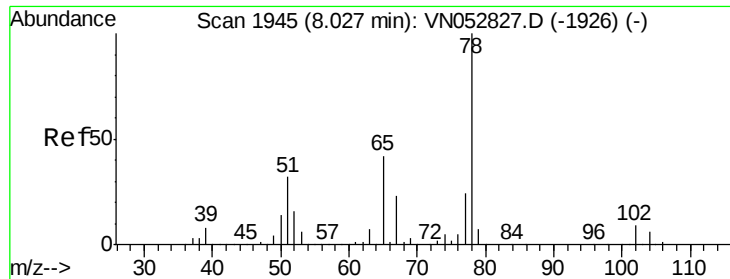
Tot Ion: 43 Resp: 7532
Ion Ratio Lower Upper
43 100
72 21.6 21.0 31.6



#31
Cyclohexane
Concen: 0.373 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 56 Resp: 23044
Ion Ratio Lower Upper
56 100
69 182.5 26.6 39.8#
84 149.4 68.4 102.6#

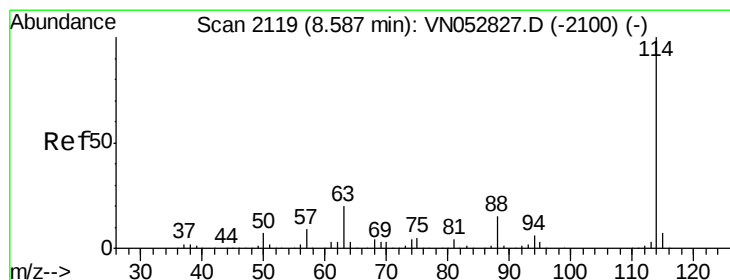
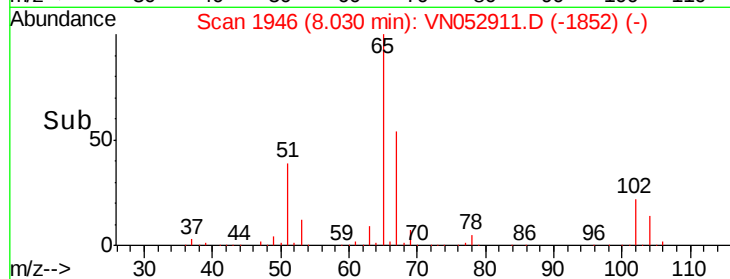
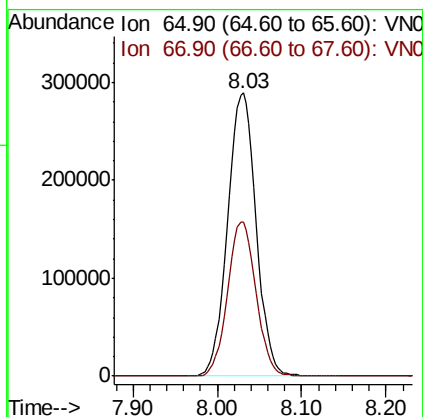
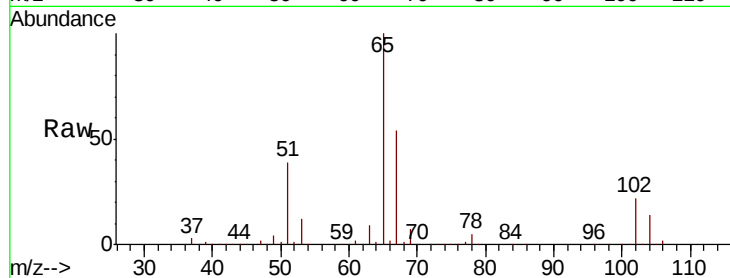




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

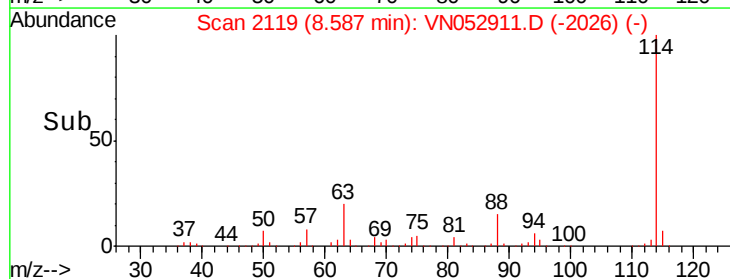
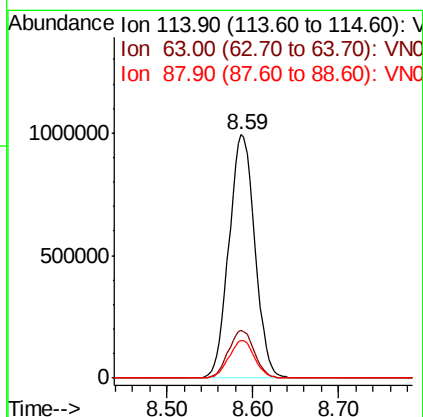
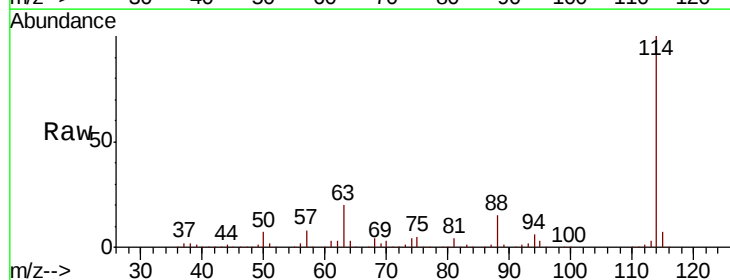
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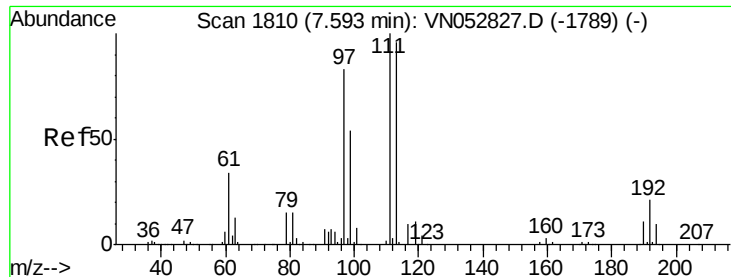
Tot Ion: 65 Resp: 679902
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

Tgt Ion:114 Resp: 2071240
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.3 0.0 31.0

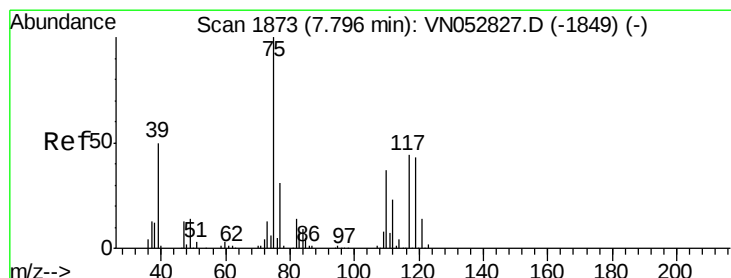
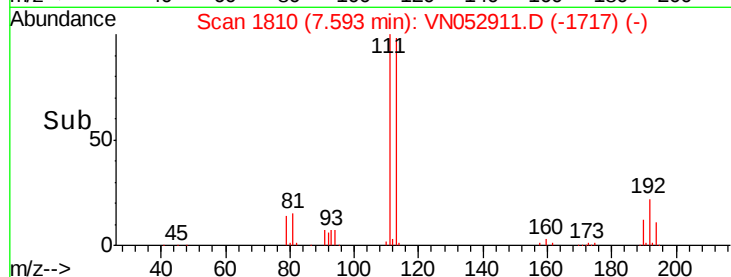
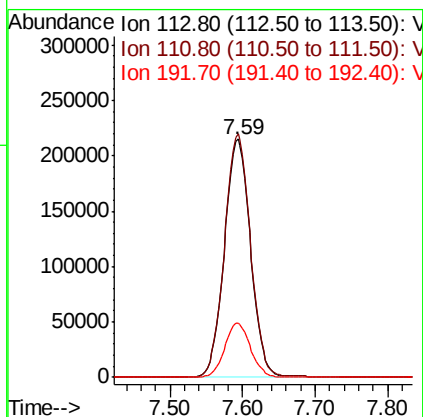
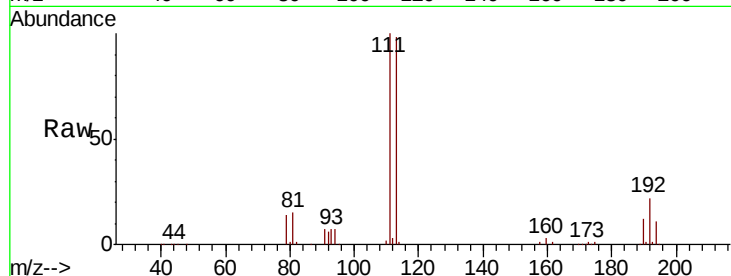




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

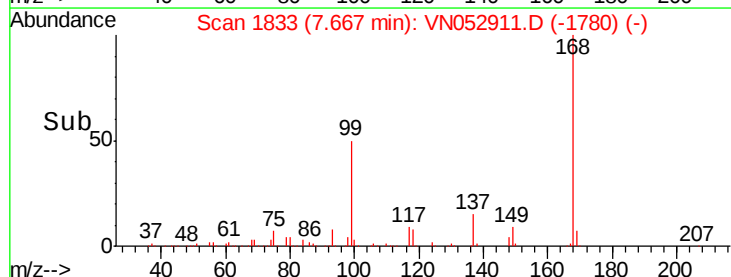
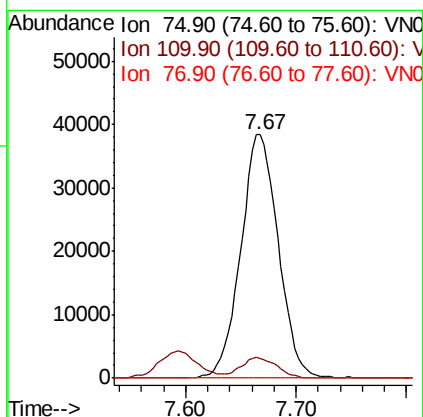
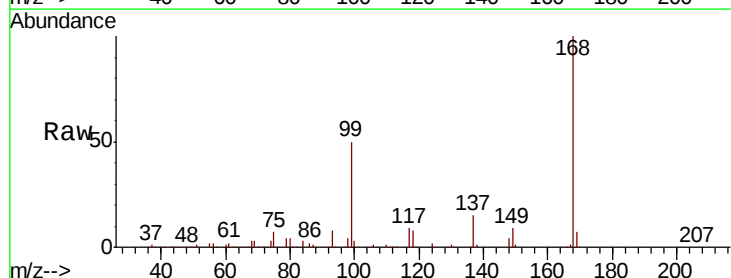
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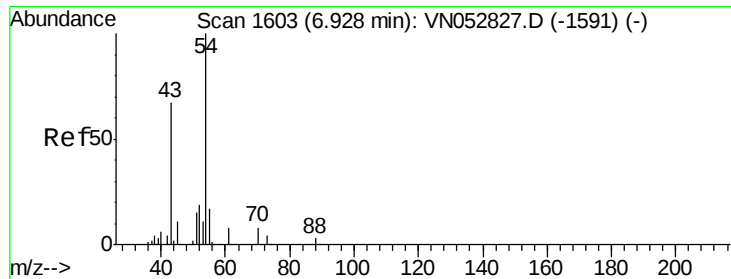
Tot Ion:113 Resp: 540688
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.0 124.4
 192 22.5 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.739 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

Tgt Ion: 75 Resp: 90384
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.2 54.6#
 77 0.0 24.9 37.3#

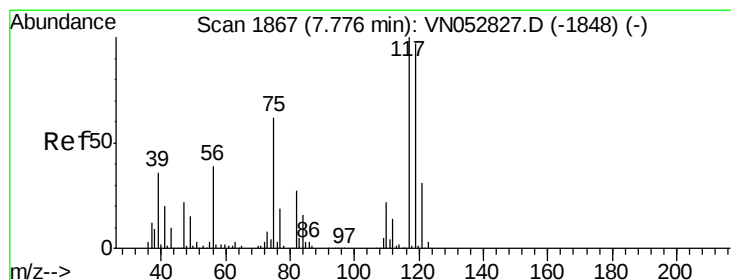
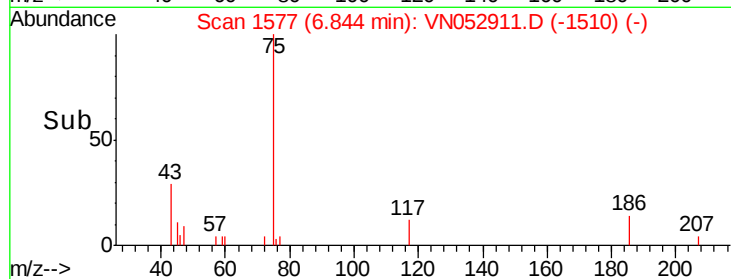
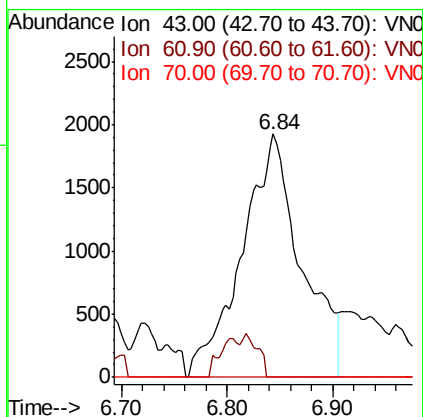
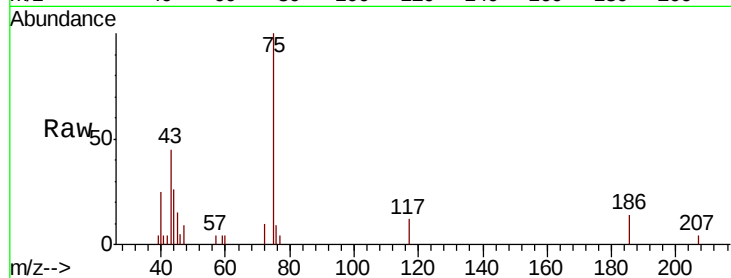




#37
Ethyl Acetate
Concen: 0.657 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. -0.08 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

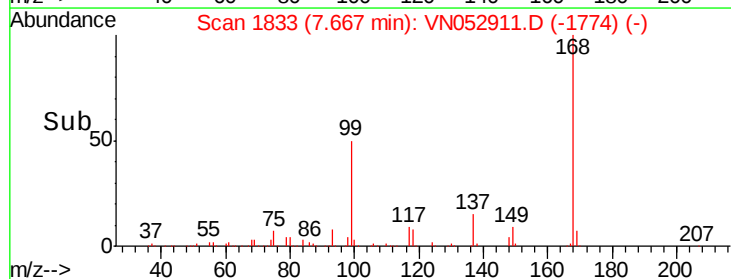
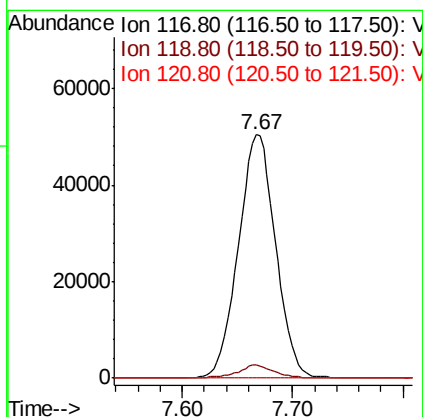
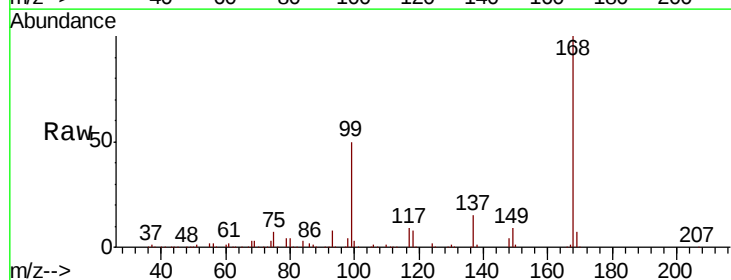
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ClientSampled :

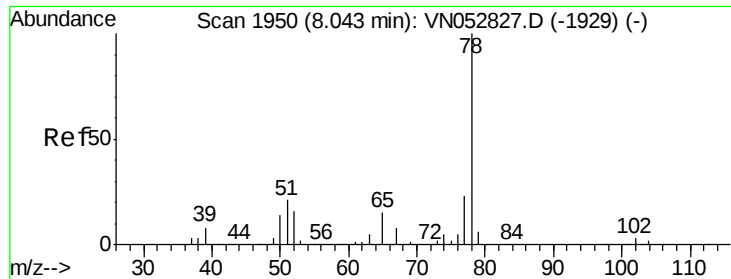
Tot Ion: 43 Resp: 7532
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.704 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 117 Resp: 117690
Ion Ratio Lower Upper
117 100
119 5.4 77.1 115.7#
121 0.0 24.9 37.3#

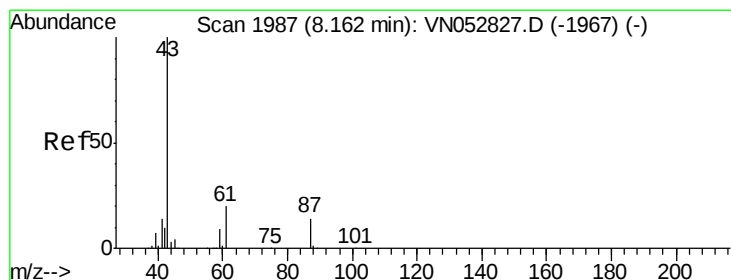
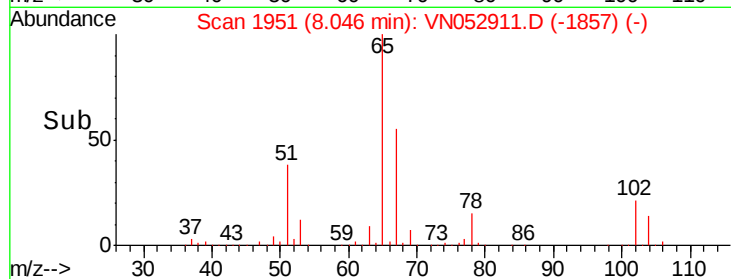
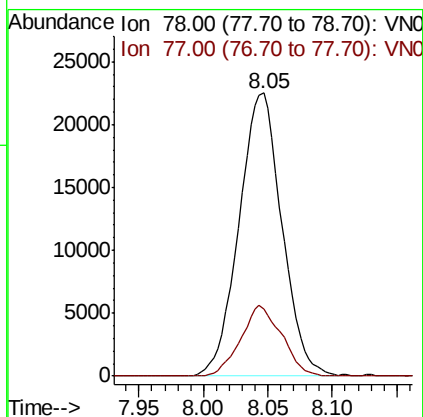
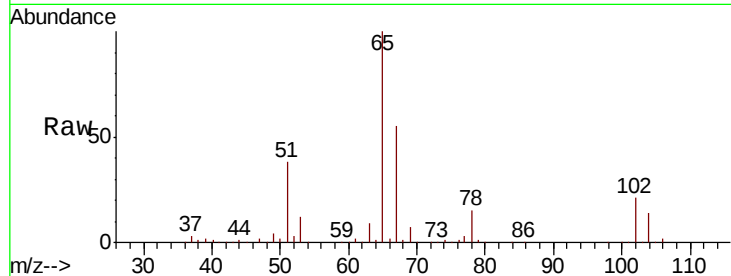




#40
Benzene
Concen: 0.911 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

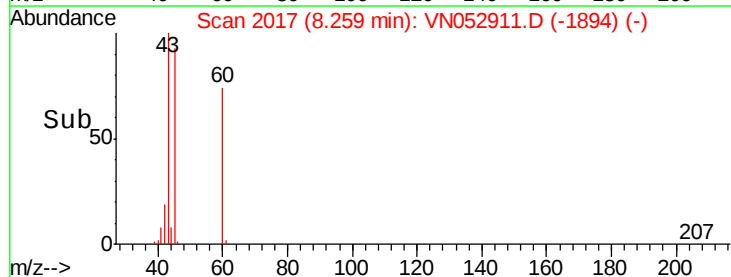
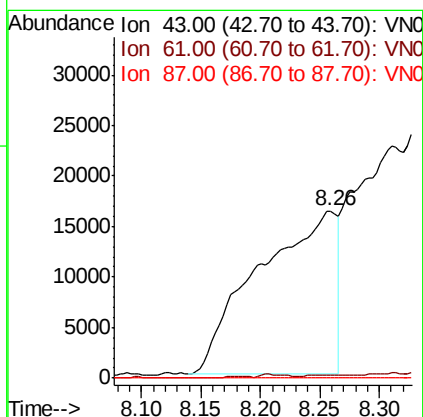
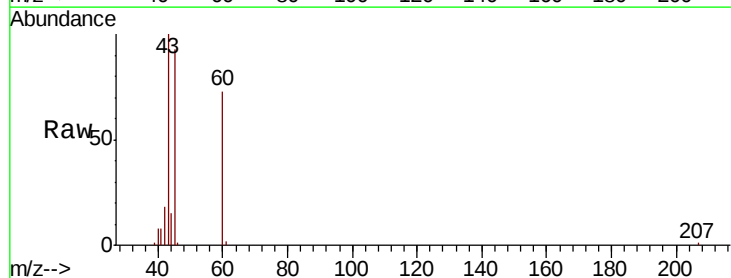
Instrument :
MSVOA_N
ClientSampled :

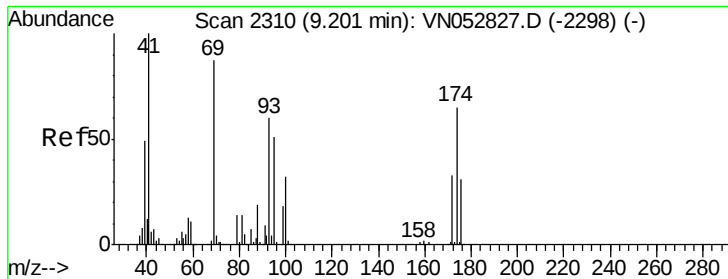
Tot Ion: 78 Resp: 52153
Ion Ratio Lower Upper
78 100
77 23.6 18.5 27.7



#43
Isopropyl Acetate
Concen: 3.140 ug/l
RT: 8.26 min Scan# 2017
Delta R.T. 0.10 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 43 Resp: 73769
Ion Ratio Lower Upper
43 100
61 0.0 22.9 34.3#
87 0.0 10.6 15.8#

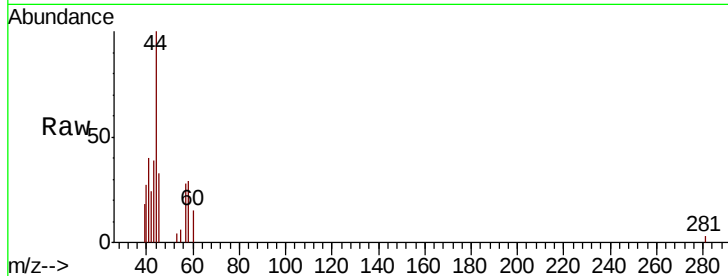




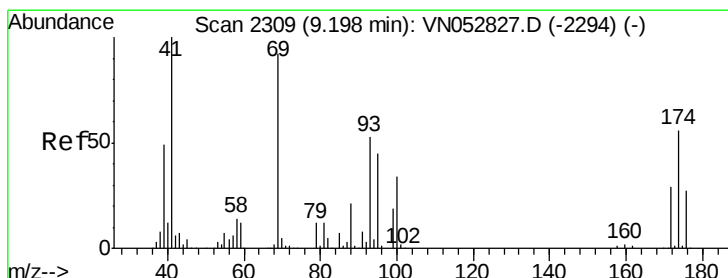
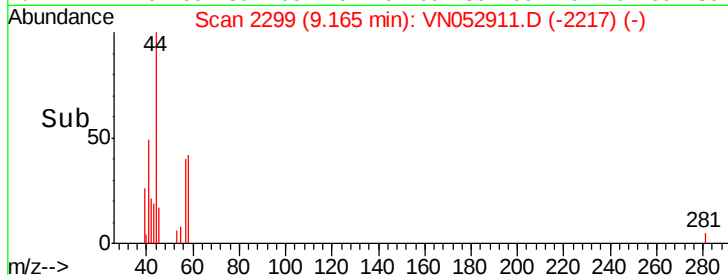
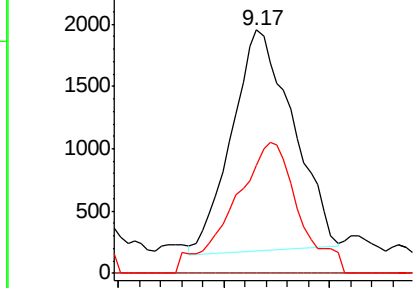
#48
Methvl methacrylate
Concen: 0.347 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.04 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3573
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 63.1 41.9 62.9#

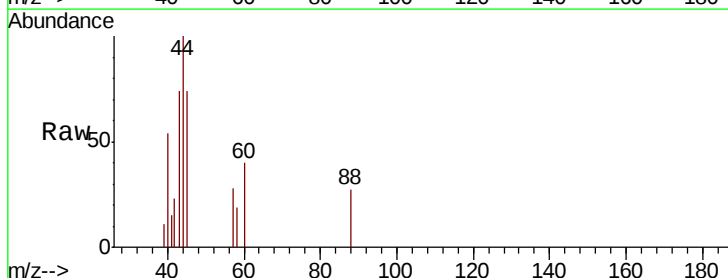


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

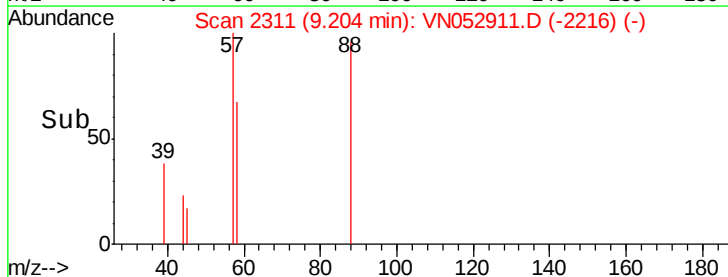
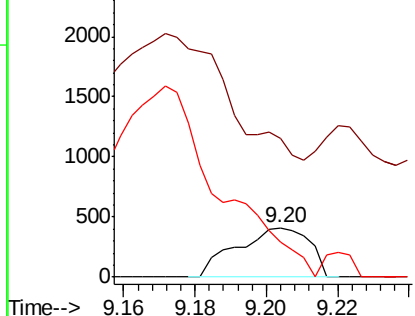


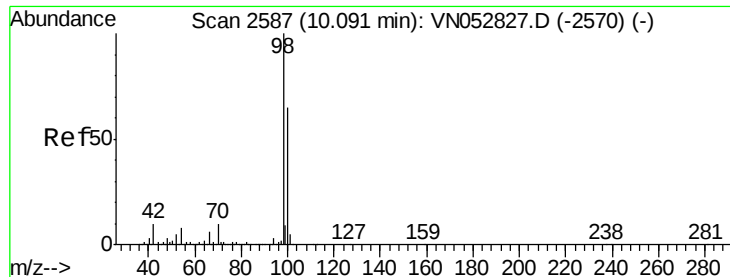
#49
1,4-Dioxane
Concen: 4.917 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 88 Resp: 575
Ion Ratio Lower Upper
88 100
43 45.0 26.6 40.0#
58 19.1 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 4.917 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052911.D

Acq: 15 Dec 2018 1:19

Instrument :

MSVOA_N

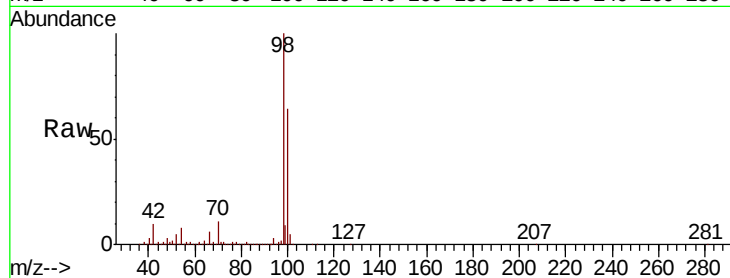
ClientSampled :

Tot Ion: 98 Resp: 2506207

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

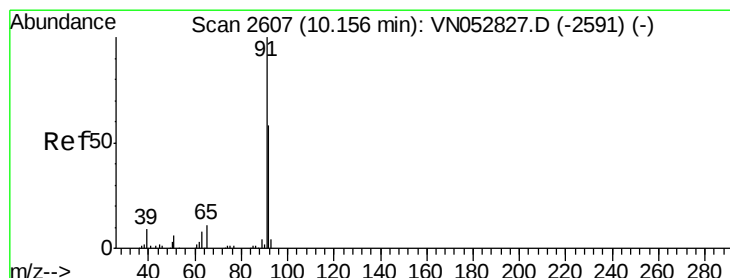
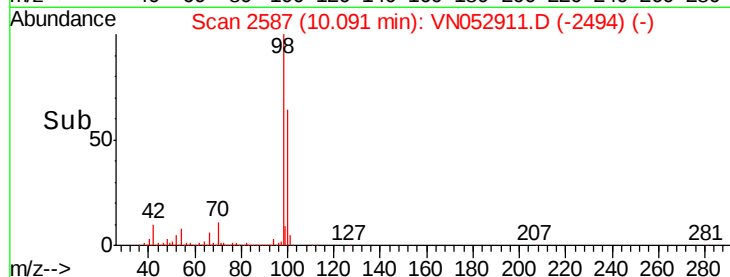
1500000

1000000

500000

0

Time-->



#52

Toluene

Concen: 2.114 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052911.D

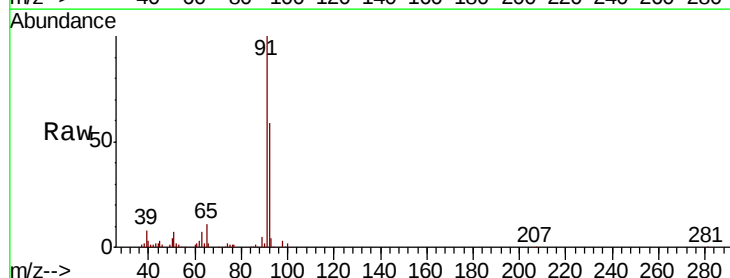
Acq: 15 Dec 2018 1:19

Tgt Ion: 92 Resp: 73300

Ion Ratio Lower Upper

92 100

91 178.3 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

80000

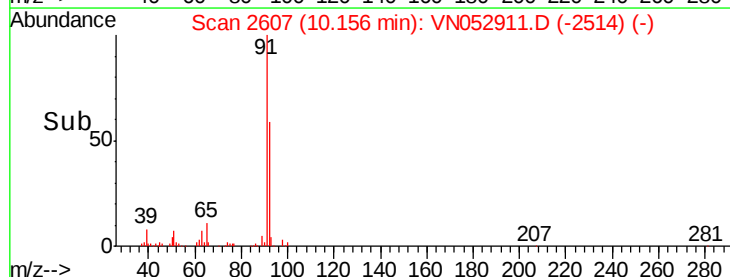
60000

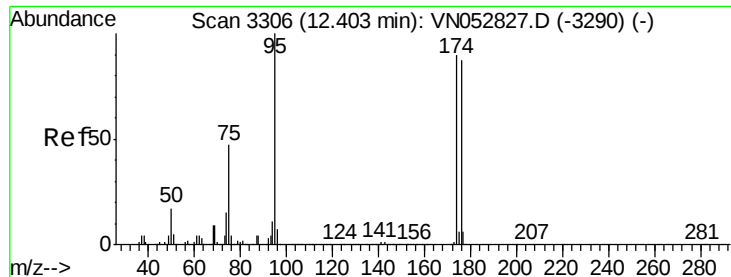
40000

20000

0

Time-->

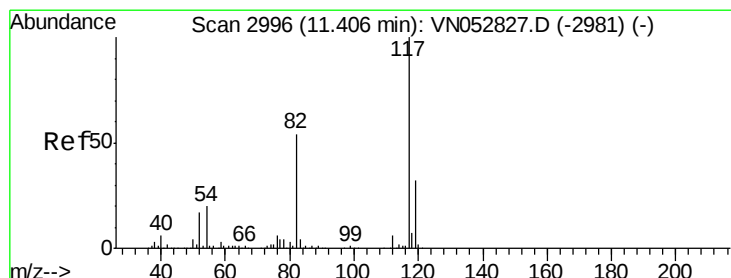
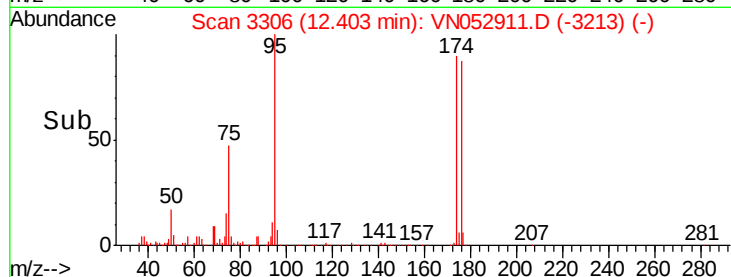
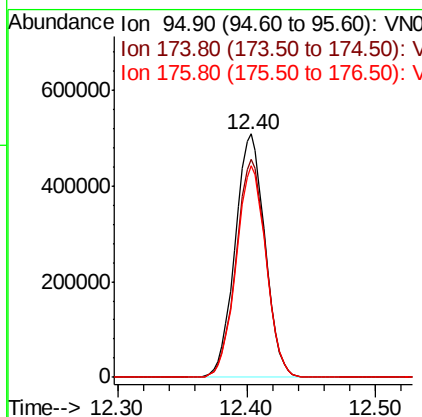
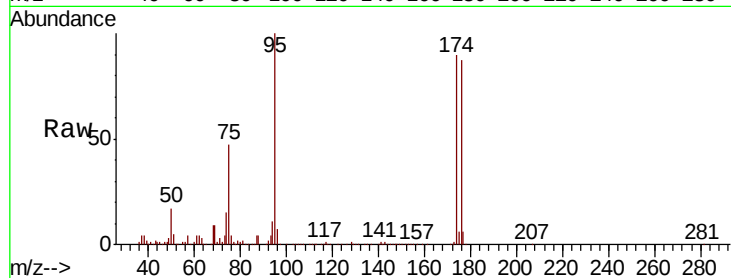




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

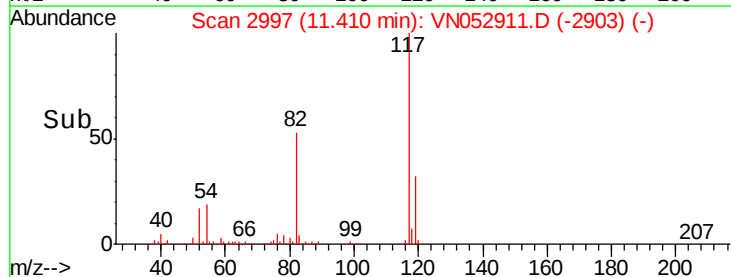
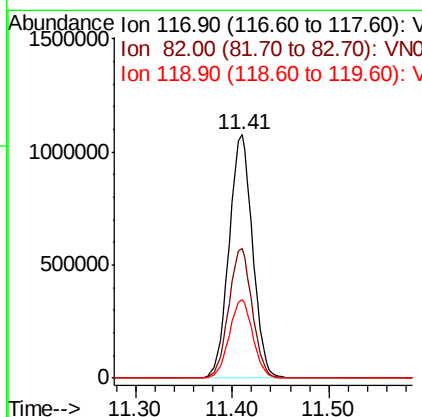
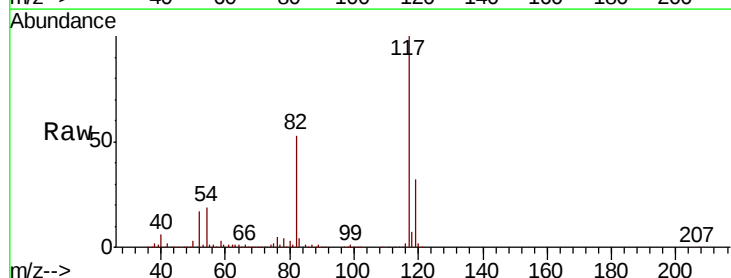
Instrument :
MSVOA_N
ClientSampleId :

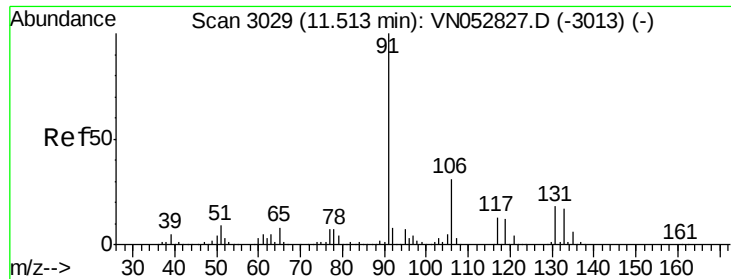
Tot Ion: 95 Resp: 818840
Ion Ratio Lower Upper
95 100
174 89.8 0.0 178.8
176 87.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 117 Resp: 1814823
Ion Ratio Lower Upper
117 100
82 53.3 42.8 64.2
119 32.3 25.5 38.3

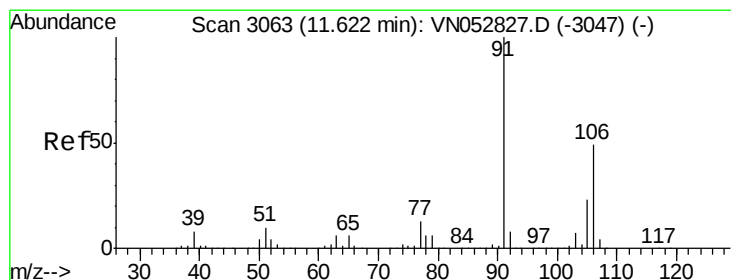
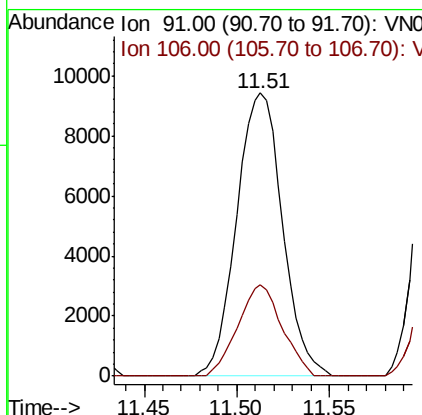
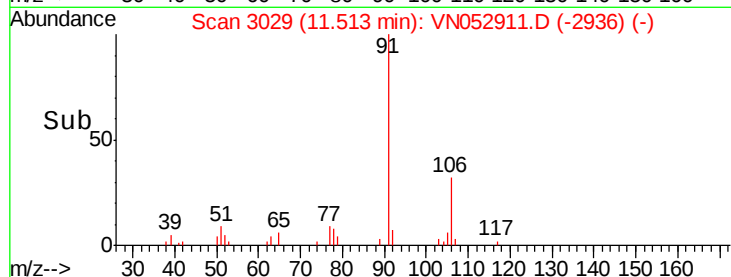
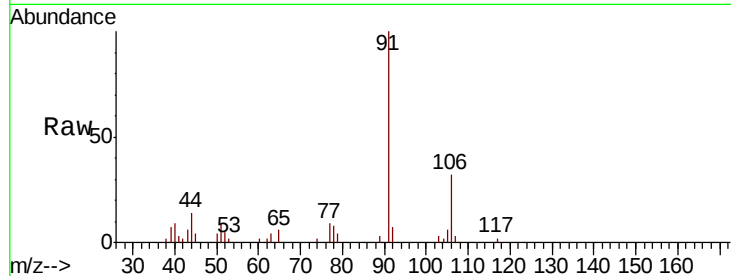




#67
Ethyl Benzene
Concen: 0.250 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

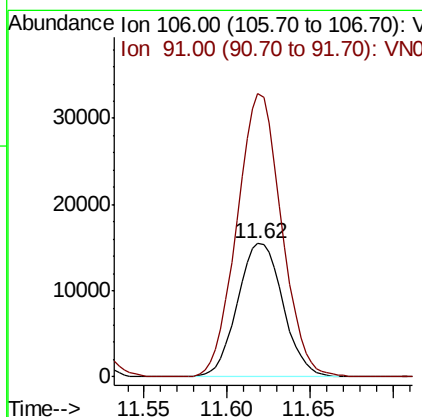
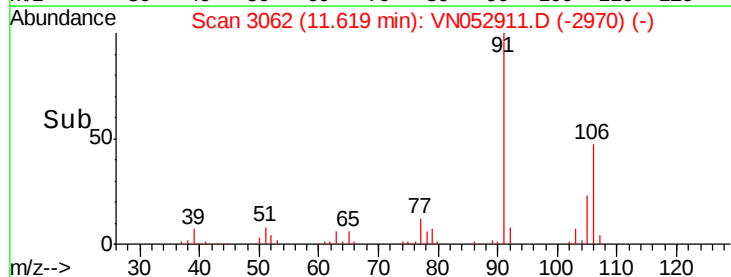
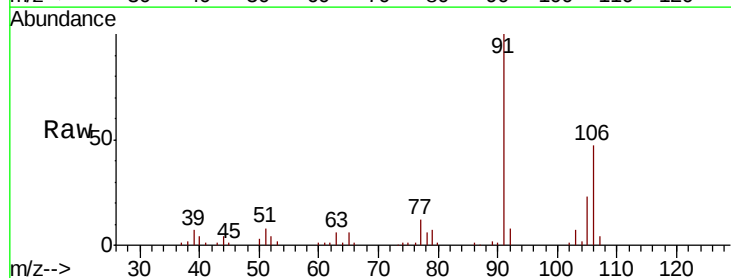
Instrument :
MSVOA_N
ClientSampled :

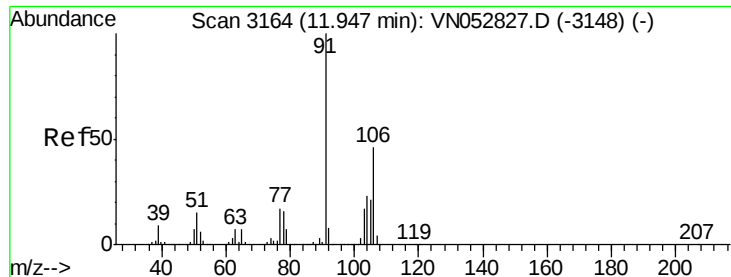
Tot Ion: 91 Resp: 16180
Ion Ratio Lower Upper
91 100
106 32.5 24.9 37.3



#68
m/p-Xylenes
Concen: 1.213 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion: 106 Resp: 29447
Ion Ratio Lower Upper
106 100
91 208.4 162.2 243.4

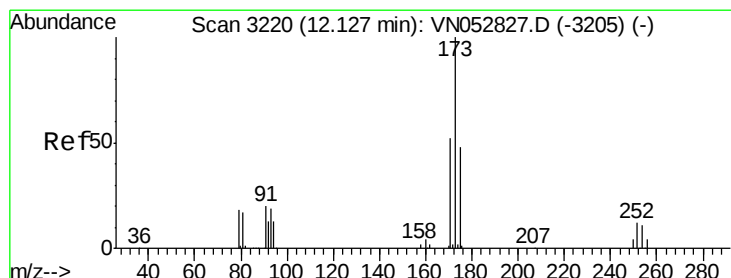
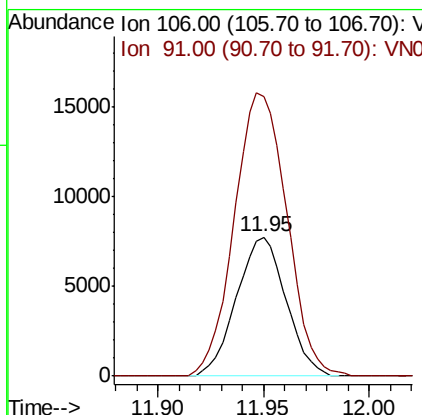
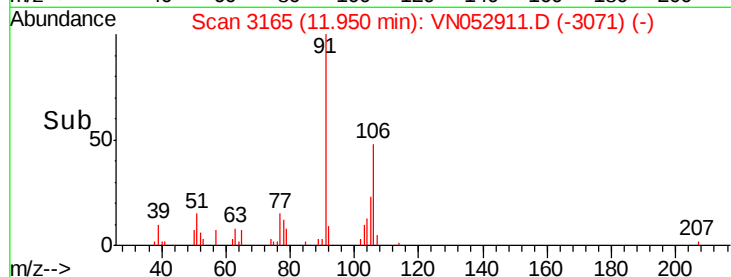
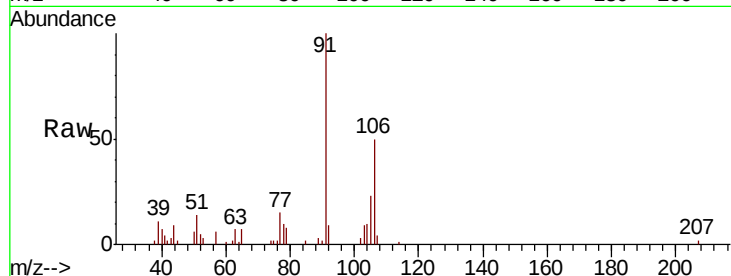




#69
o-Xylene
Concen: 0.533 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

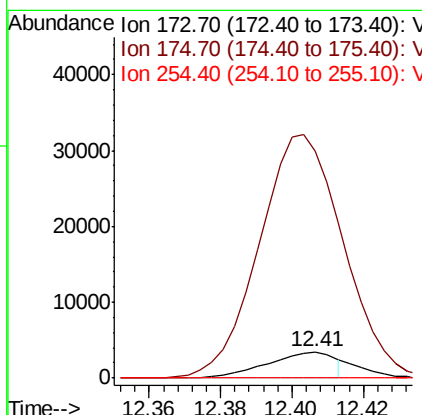
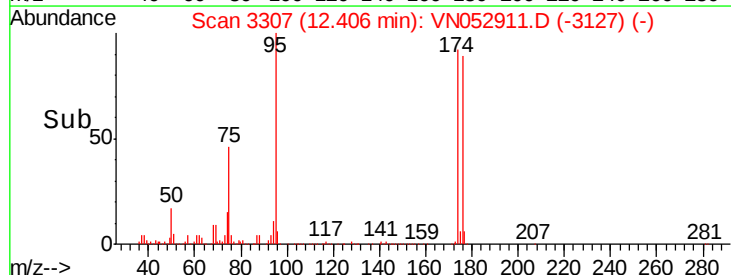
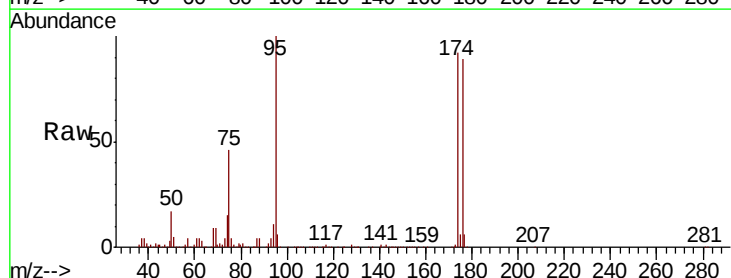
Instrument :
MSVOA_N
ClientSampled :

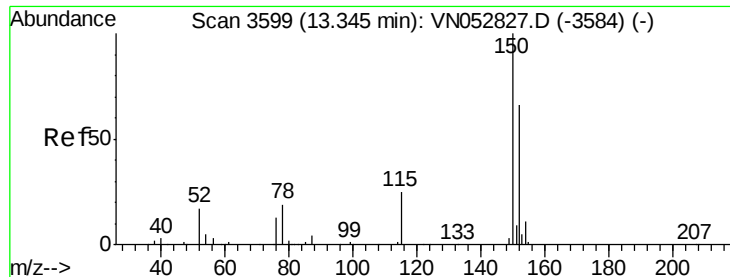
Tot Ion:106 Resp: 12633
Ion Ratio Lower Upper
106 100
91 216.5 106.6 319.8



#71
Bromoform
Concen: 0.511 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN052911.D
Acq: 15 Dec 2018 1:19

Tgt Ion:173 Resp: 4550
Ion Ratio Lower Upper
173 100
175 991.5 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052911.D

Acq: 15 Dec 2018 1:19

Instrument :

MSVOA_N

ClientSampled :

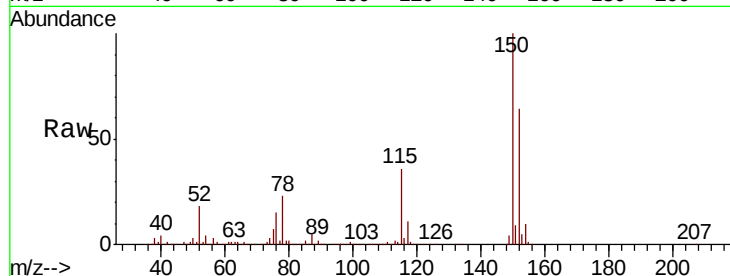
Tot Ion:152 Resp: 756513

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

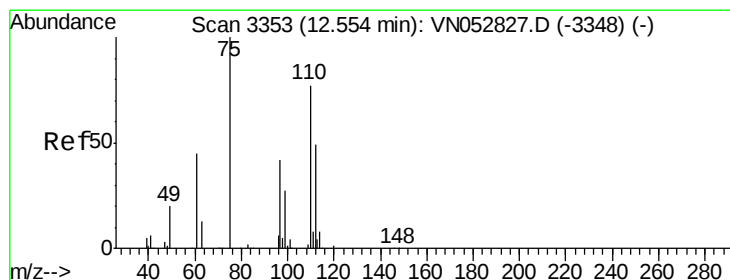
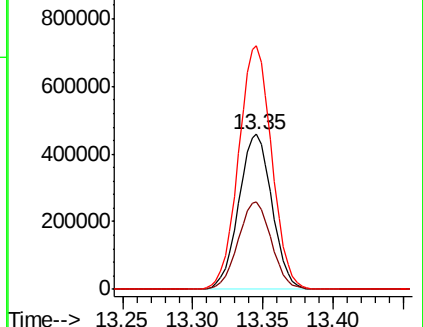
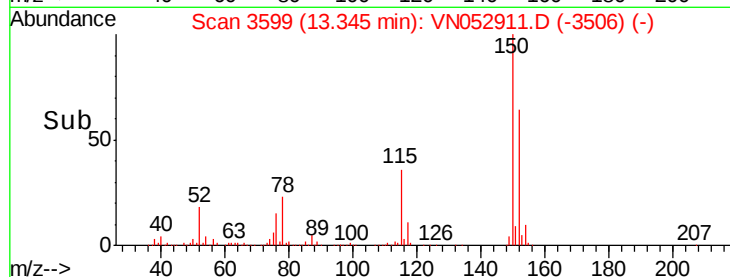
150 156.6 0.0 347.8



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: 34.802 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052911.D

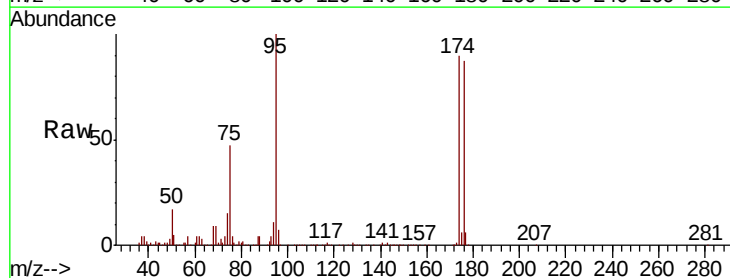
Acq: 15 Dec 2018 1:19

Tgt Ion: 75 Resp: 388438

Ion Ratio Lower Upper

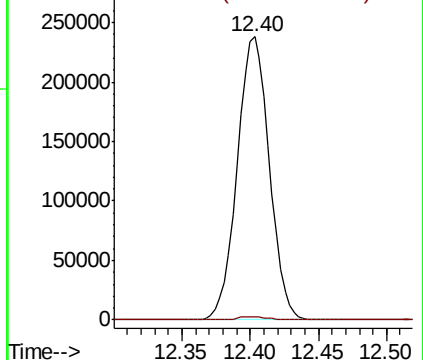
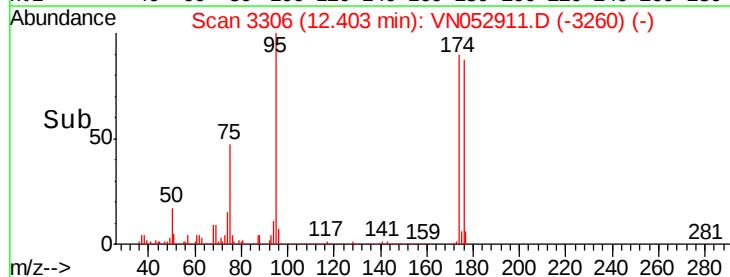
75 100

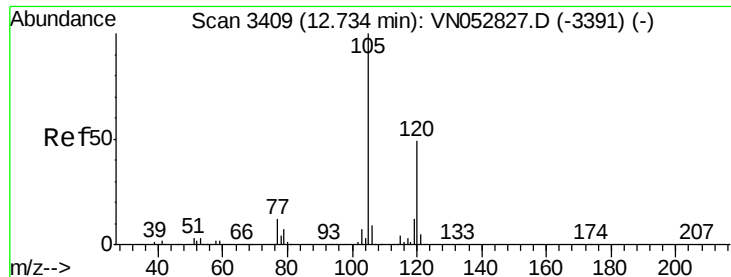
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

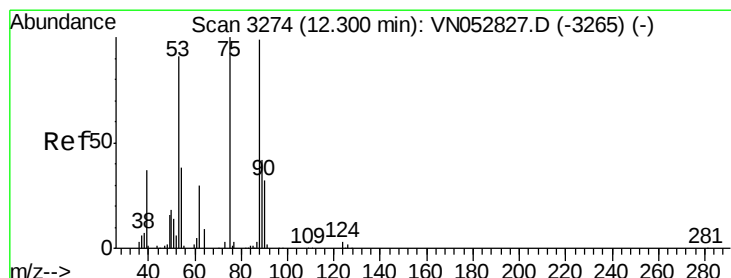
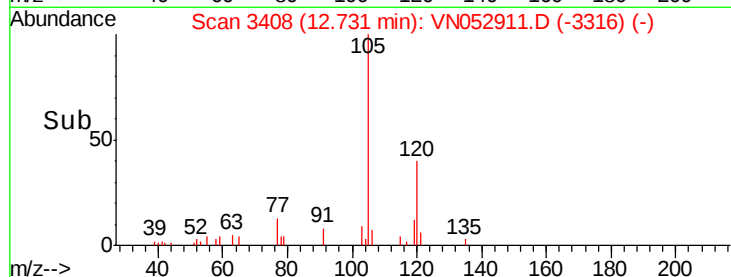
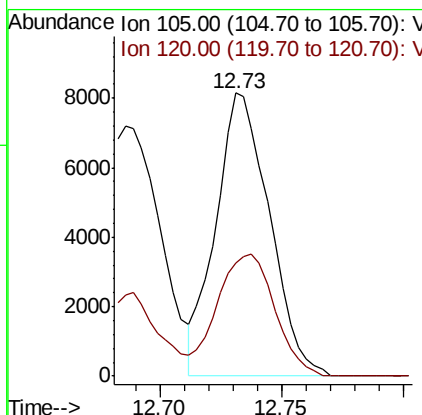
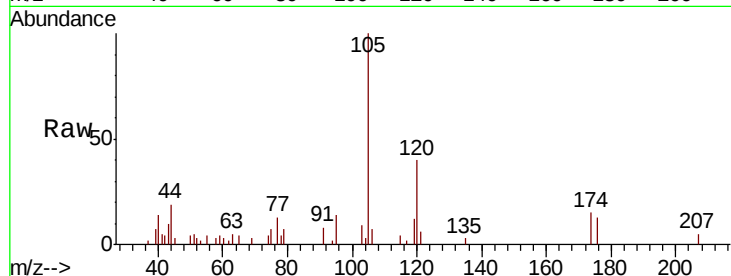




#80
 1,3,5-Trimethylbenzene
 Concen: 0.274 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

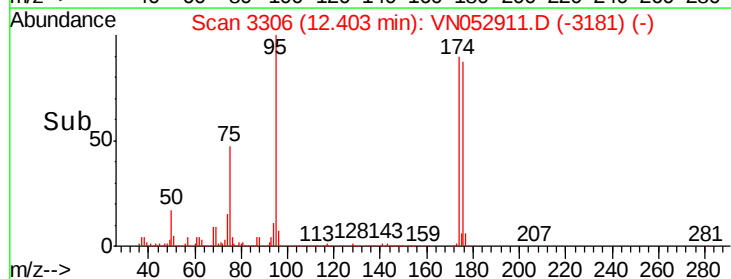
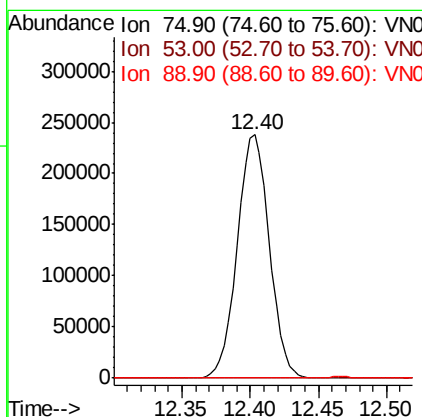
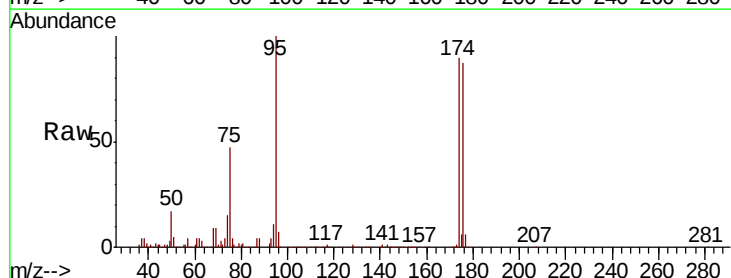
Instrument :
 MSVOA_N
 ClientSampleId :

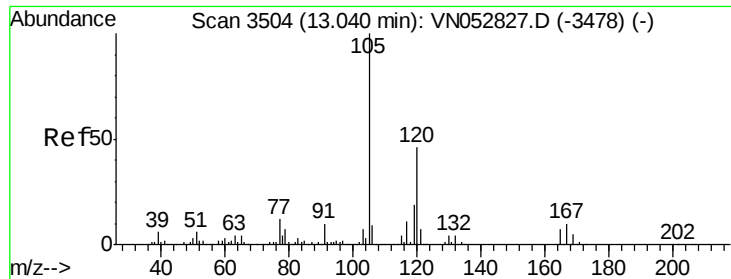
Tot Ion:105 Resp: 12498
 Ion Ratio Lower Upper
 105 100
 120 46.1 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.800 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

Tgt Ion: 75 Resp: 388438
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

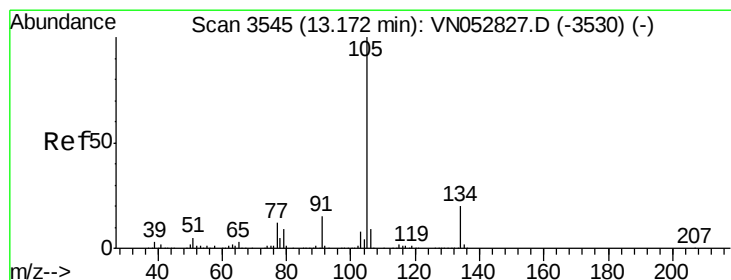
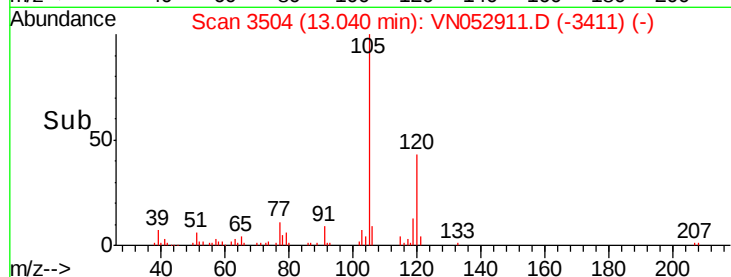
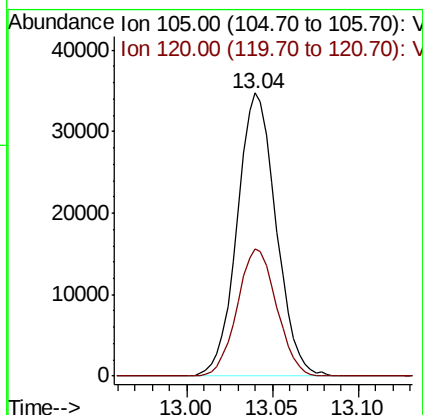
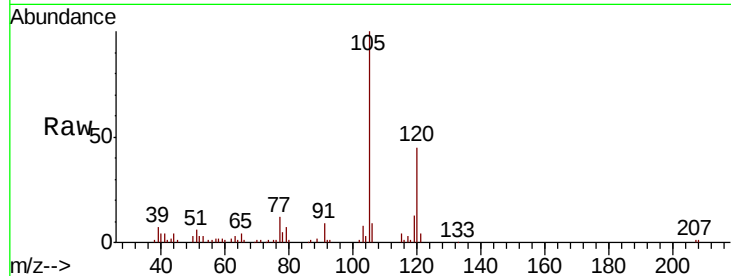




#84
 1,2,4-Trimethylbenzene
 Concen: 1.184 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

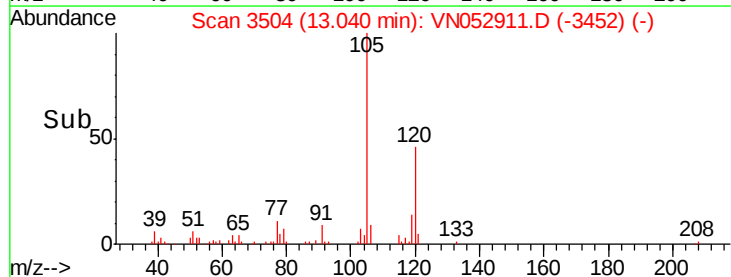
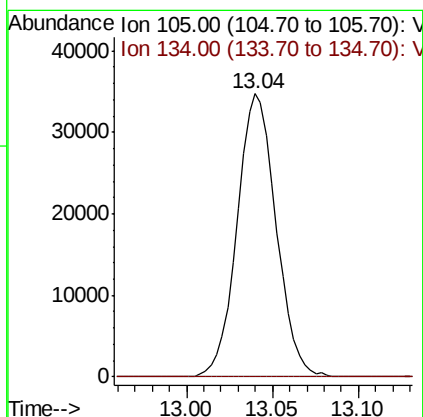
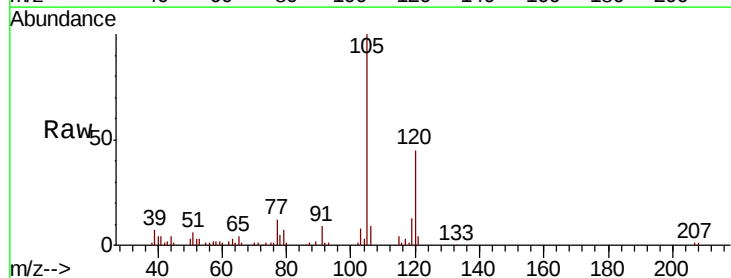
Instrument :
 MSVOA_N
 ClientSampled :

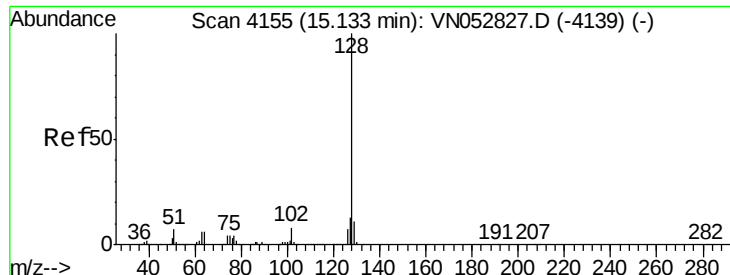
Tot Ion:105 Resp: 54635
 Ion Ratio Lower Upper
 105 100
 120 45.4 22.9 68.8



#85
 sec-Butylbenzene
 Concen: 1.003 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.13 min
 Lab File: VN052911.D
 Acq: 15 Dec 2018 1:19

Tgt Ion:105 Resp: 54635
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#





#95

Naphthalene

Concen: 0.708 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

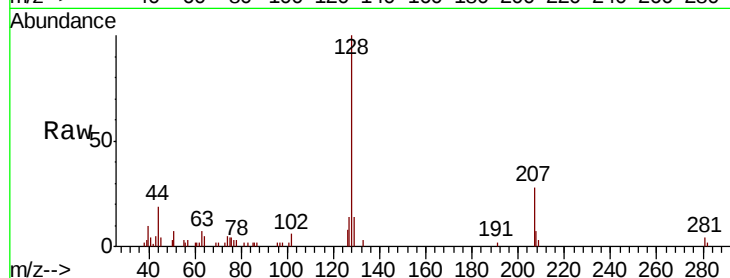
Lab File: VN052911.D

Acq: 15 Dec 2018 1:19

Instrument :

MSVOA_N

ClientSampleId :



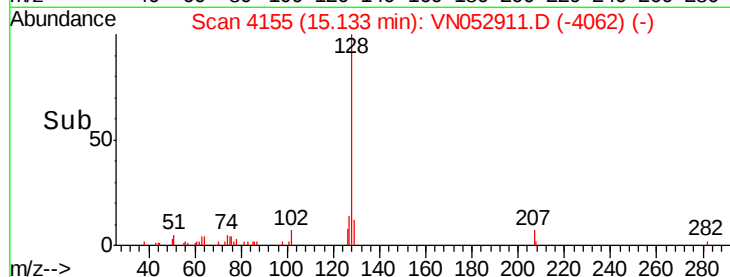
Tot Ion:128 Resp: 19585

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

129 14.3 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
15000 Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

