

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120418\
 Data File : VN052658.D
 Acq On : 4 Dec 2018 16:54
 Operator : MD\SY
 Sample : PB115293ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#04

Quant Time: Dec 05 03:09:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1190369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1848340	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1621799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	578509	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	629908	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	7.59	113	568234	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
50) Toluene-d8	10.09	98	2263676	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.40	95	693856	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	

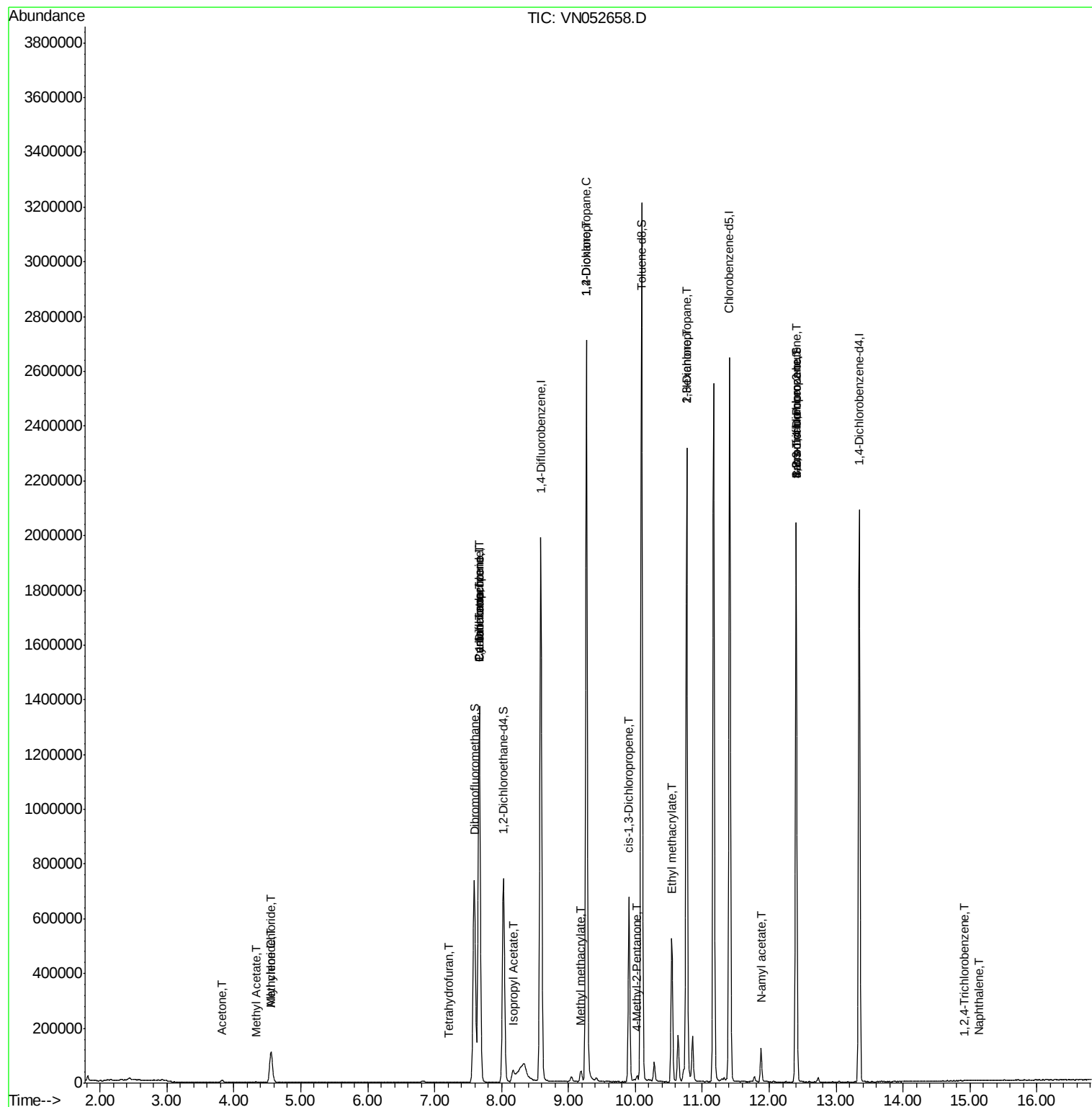
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	4077	0.212	ug/l #	26
16) Acetone	3.82	43	15411	4.508	ug/l #	88
18) Methyl Acetate	4.34	43	6032	0.615	ug/l #	76
20) Methylene Chloride	4.55	84	85847	6.417	ug/l	91
29) Tetrahydrofuran	7.21	42	1764	0.564	ug/l #	41
31) Cyclohexane	7.66	56	20824	0.572	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82642	4.735	ug/l #	50
38) Carbon Tetrachloride	7.67	117	105551	6.680	ug/l #	16
43) Isopropyl Acetate	8.17	43	68070	3.776	ug/l #	75
45) 1,2-Dichloropropane	9.27	63	3636	0.263	ug/l #	43
48) Methyl methacrylate	9.18	41	15325	1.630	ug/l #	13
49) 1,4-Dioxane	9.27	88	181	1.855	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	19326	1.911	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	123042	6.412	ug/l #	63
56) Ethyl methacrylate	10.54	69	1974	2.817	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	25215	1.314	ug/l #	43
59) 2-Hexanone	10.77	43	346232	51.004	ug/l #	51
71) Bromoform	12.40	173	4166	0.541	ug/l #	1
74) N-amyl acetate	11.88	43	38131	3.325	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	331733	37.186	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	331733	124.183	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	184	2.846	ug/l #	41
95) Naphthalene	15.14	128	529	3.451	ug/l #	69

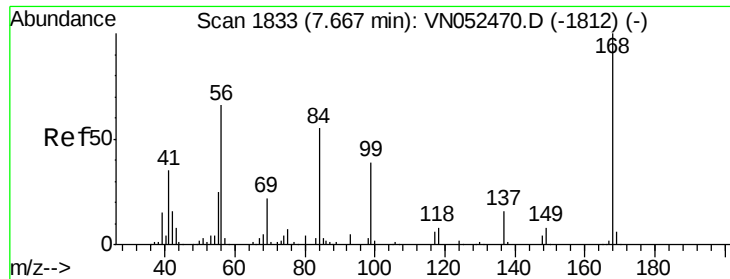
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120418\
Data File : VN052658.D
Acq On : 4 Dec 2018 16:54
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Sample : PB115293ZHE#04
Misc : 5.00mL/MSVOA N/WATER
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Quant Time: Dec 05 03:09:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 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: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

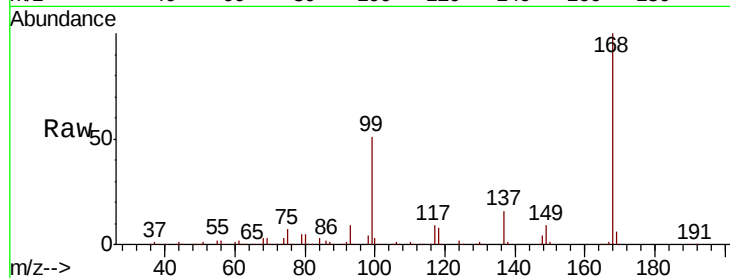
PB115293ZHE#04

Tot Ion:168 Resp: 1190369

Ion Ratio Lower Upper

168 100

99 51.2 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

300000

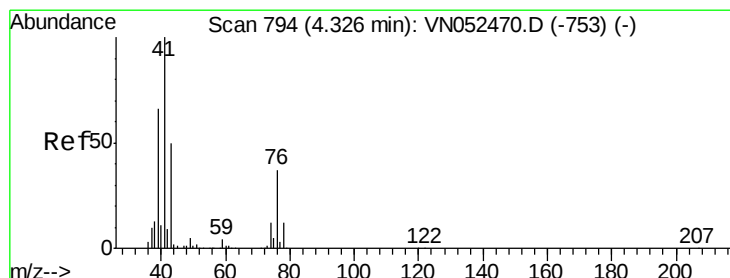
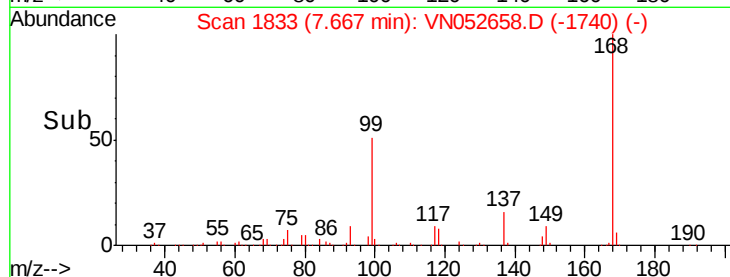
200000

100000

0

Time-->

7.60 7.70 7.80



#14

Allyl chloride

Concen: 0.212 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.22 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

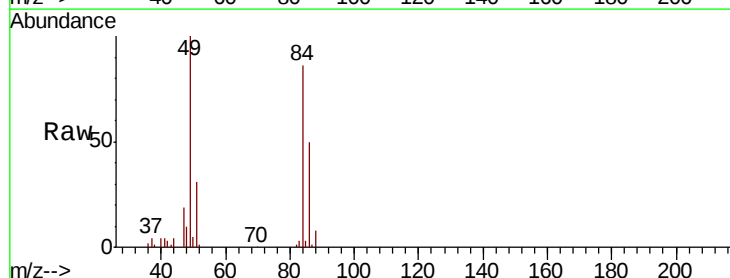
Tgt Ion: 41 Resp: 4077

Ion Ratio Lower Upper

41 100

39 0.0 50.6 76.0#

76 0.0 27.4 41.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

1500

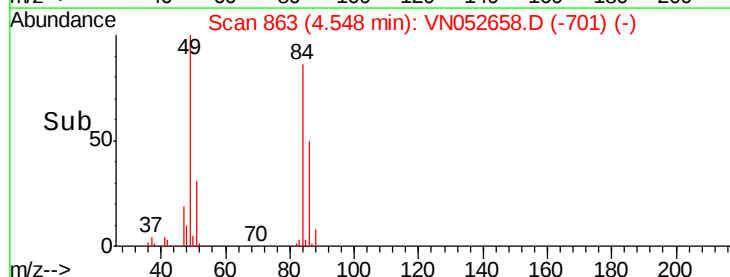
1000

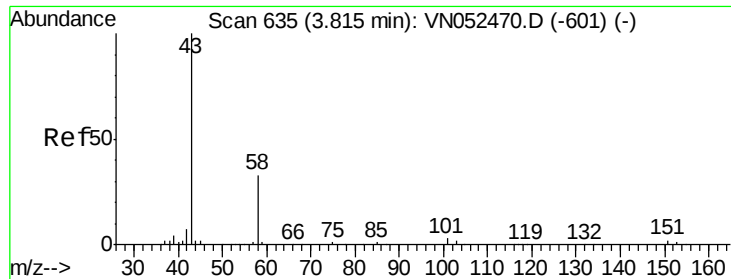
500

0

Time-->

4.45 4.50 4.55 4.60





#16

Acetone

Concen: 4.508 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

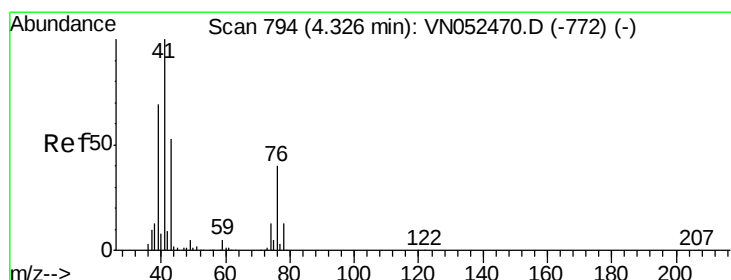
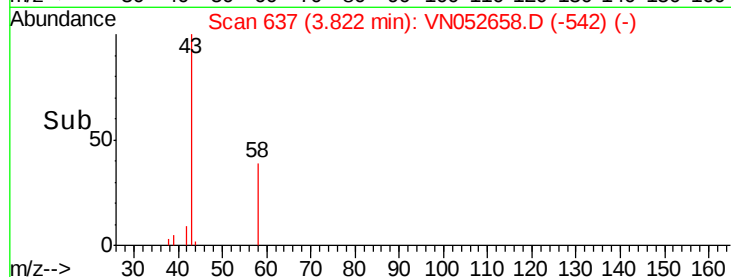
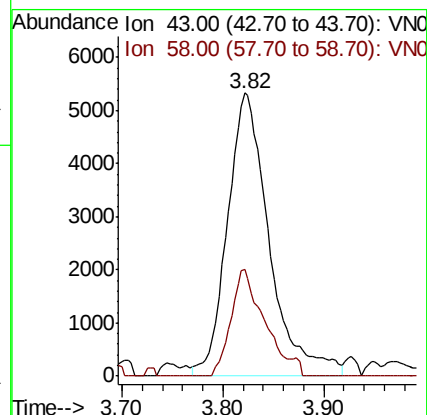
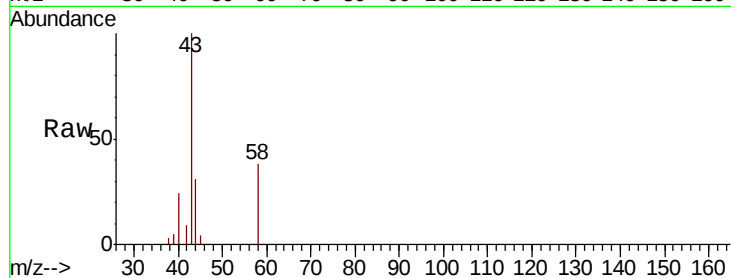
PB115293ZHE#04

Tot Ion: 43 Resp: 15411

Ion Ratio Lower Upper

43 100

58 39.2 26.0 39.0#



#18

Methyl Acetate

Concen: 0.615 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN052658.D

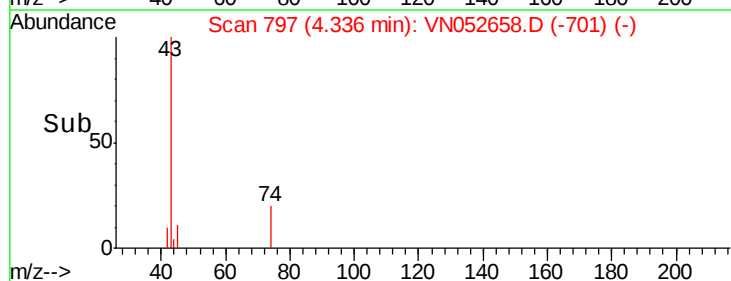
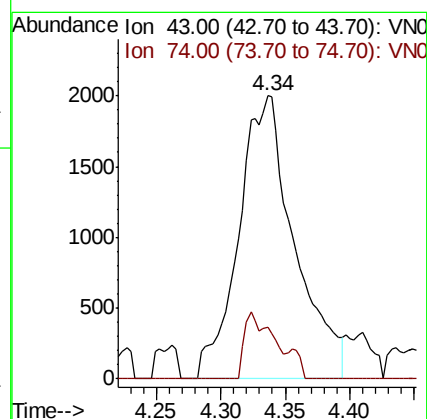
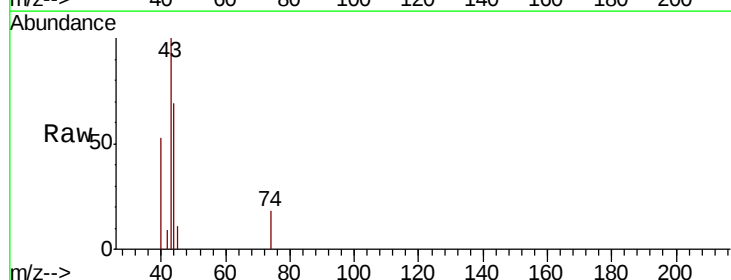
Acq: 4 Dec 2018 16:54

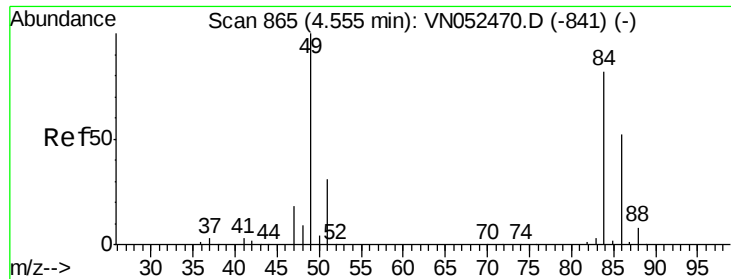
Tgt Ion: 43 Resp: 6032

Ion Ratio Lower Upper

43 100

74 11.4 18.6 27.8#

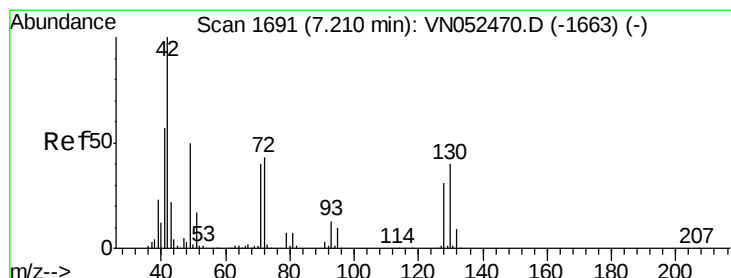
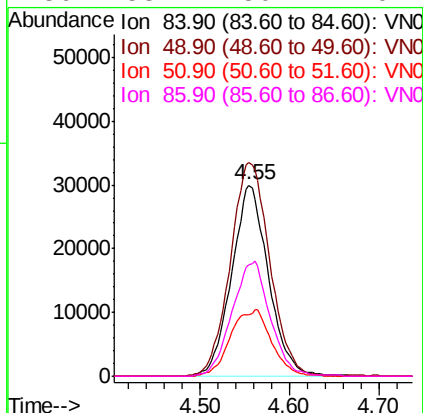
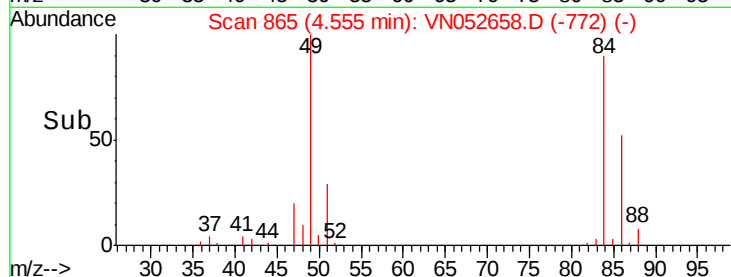
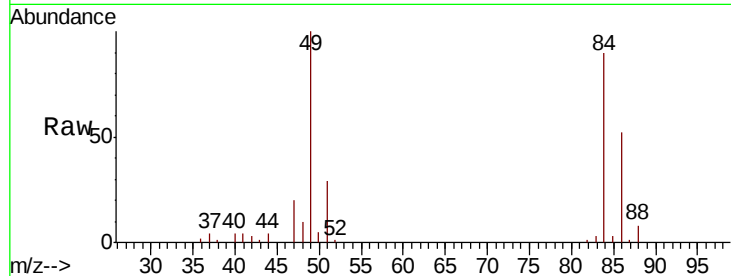




#20
Methvlene Chloride
Concen: 6.417 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052658.D
Acq: 4 Dec 2018 16:54

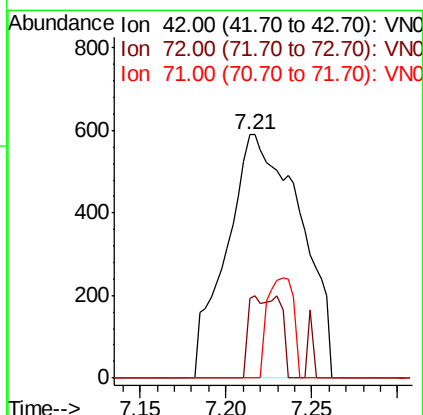
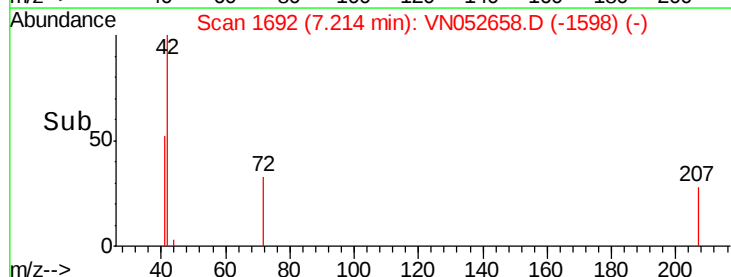
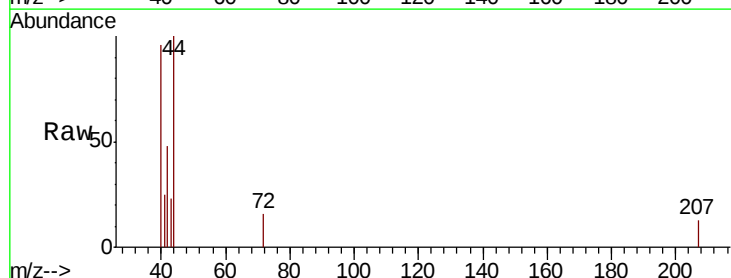
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#04

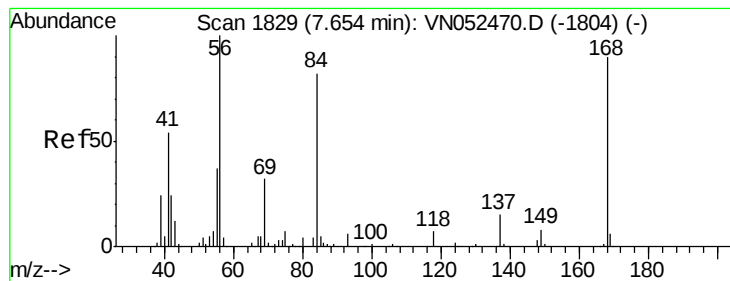
Tot Ion: 84 Resp: 85847
Ion Ratio Lower Upper
84 100
49 111.6 98.0 147.0
51 32.3 30.1 45.1
86 58.1 50.7 76.1



#29
Tetrahydrofuran
Concen: 0.564 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052658.D
Acq: 4 Dec 2018 16:54

Tgt Ion: 42 Resp: 1764
Ion Ratio Lower Upper
42 100
72 8.3 33.3 49.9#
71 0.0 32.0 48.0#





#31

Cyclohexane

Concen: 0.572 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

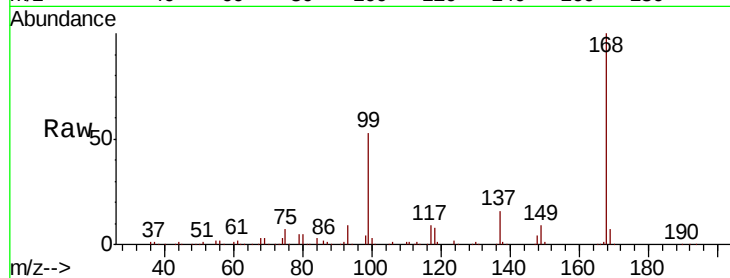
Tot Ion: 56 Resp: 20824

Ion Ratio Lower Upper

56 100

69 185.5 25.8 38.6#

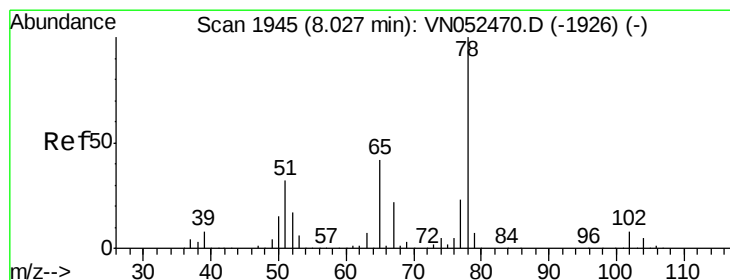
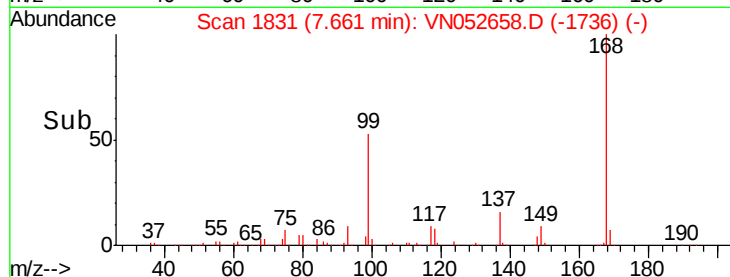
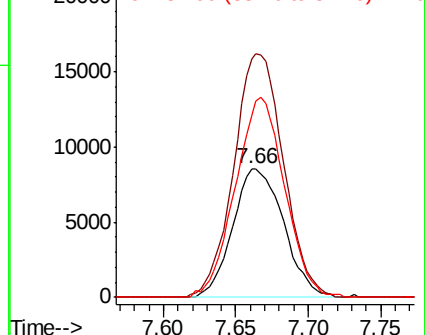
84 141.8 65.3 97.9#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052658.D

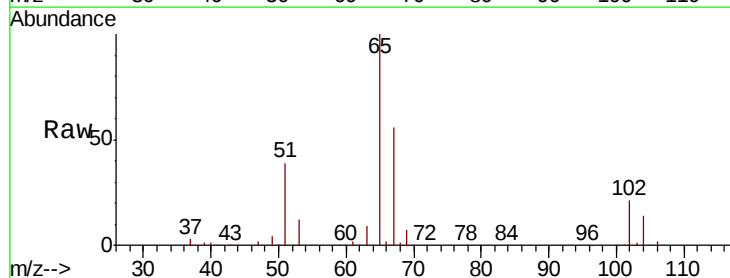
Acq: 4 Dec 2018 16:54

Tgt Ion: 65 Resp: 629908

Ion Ratio Lower Upper

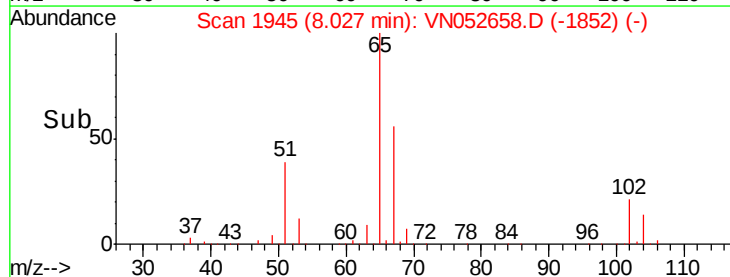
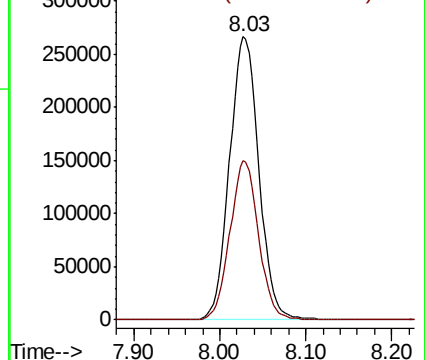
65 100

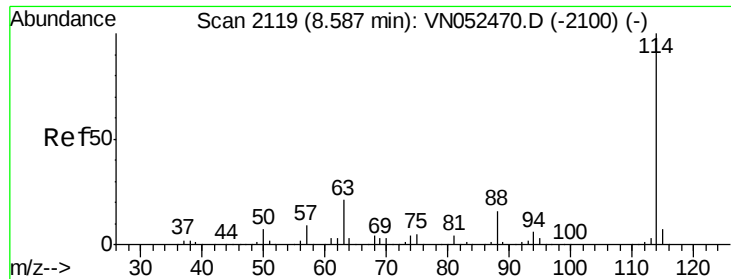
67 54.8 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

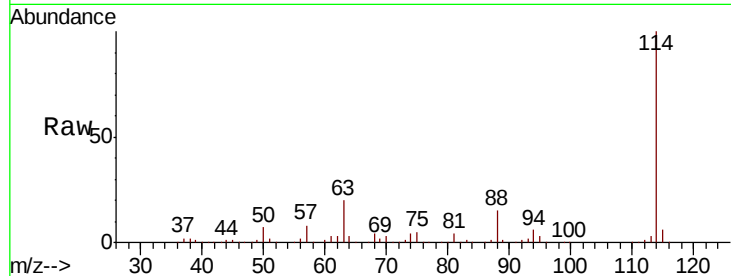




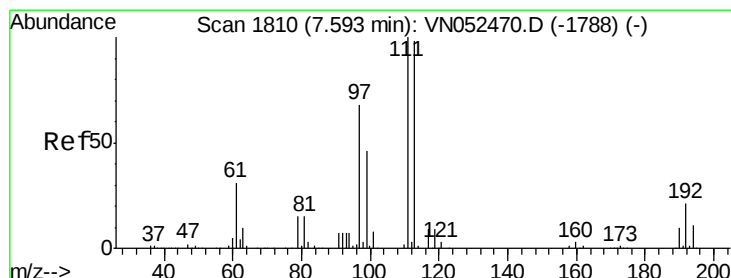
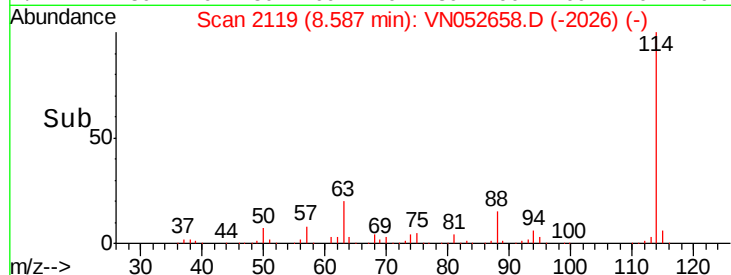
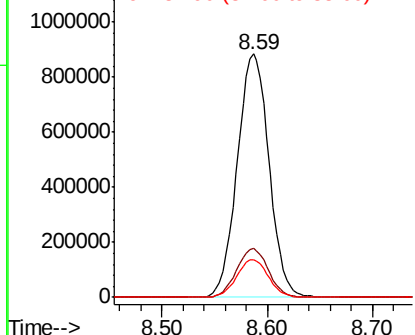
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052658.D
 Acq: 4 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#04

Tot Ion:114 Resp: 1848340
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.8
 88 15.5 0.0 31.6

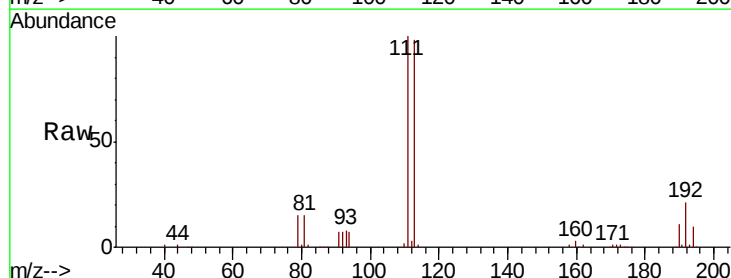


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

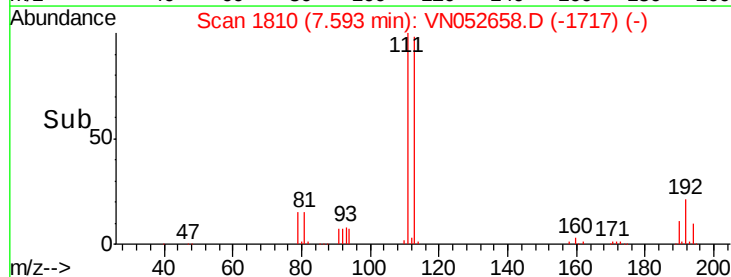
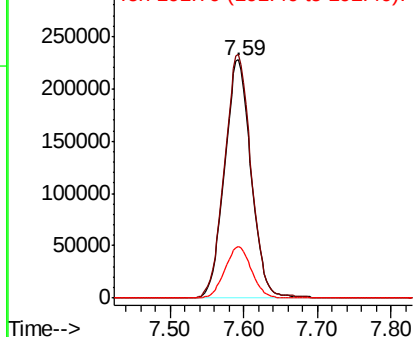


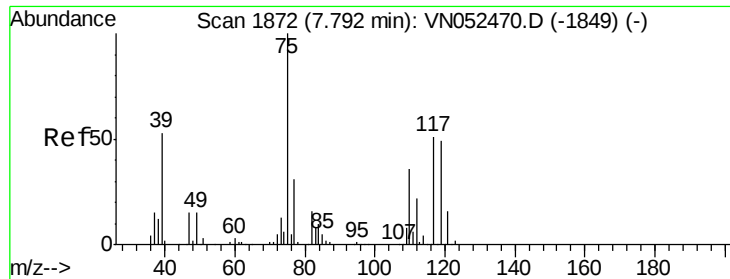
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052658.D
 Acq: 4 Dec 2018 16:54

Tgt Ion:113 Resp: 568234
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.0 123.0
 192 21.7 17.0 25.6



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

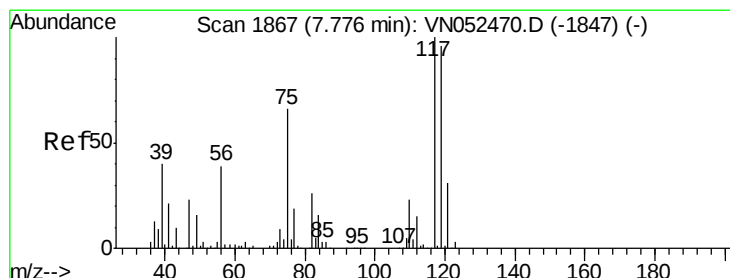
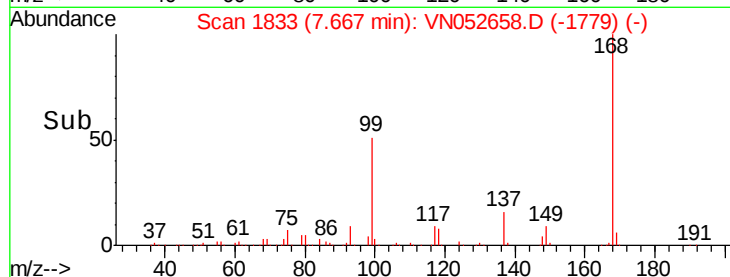
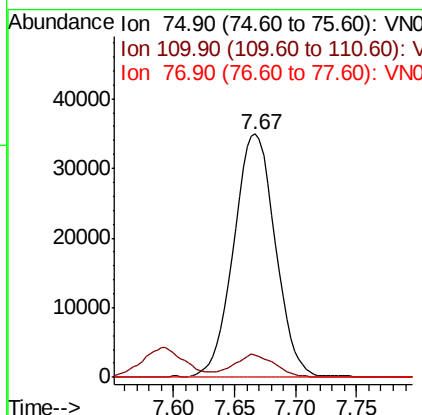
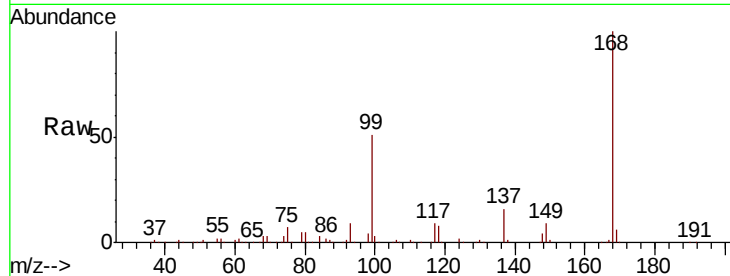




#36
 1,1-Dichloropropene
 Concen: 4.735 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052658.D
 Acq: 4 Dec 2018 16:54

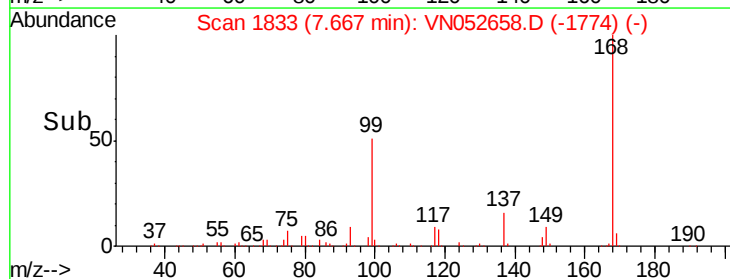
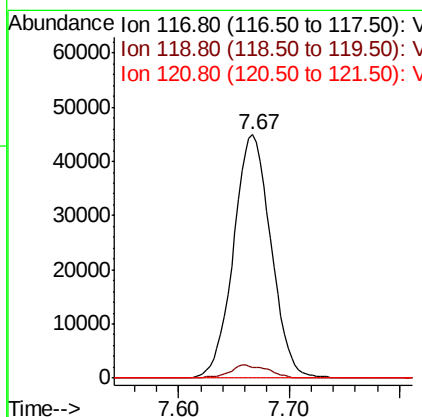
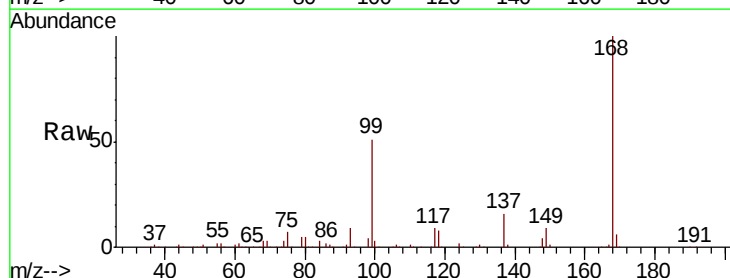
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#04

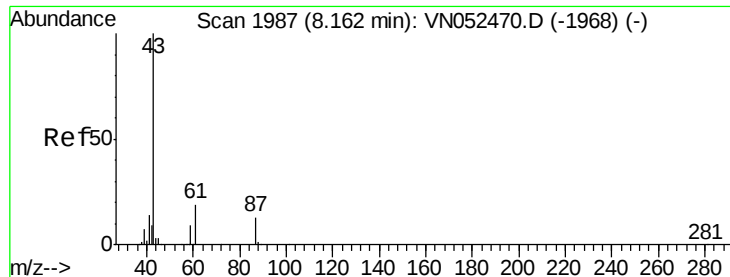
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.5	52.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.680 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052658.D
 Acq: 4 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.8	115.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 3.776 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

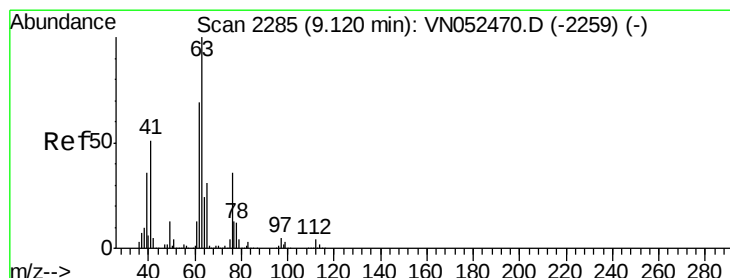
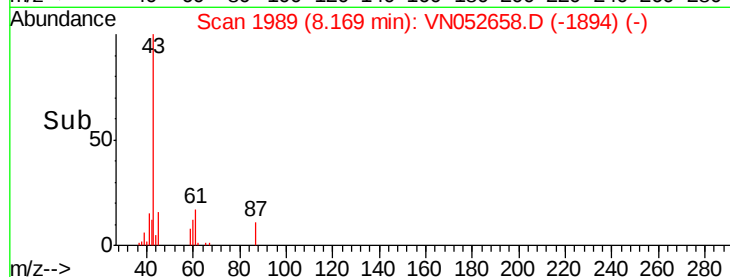
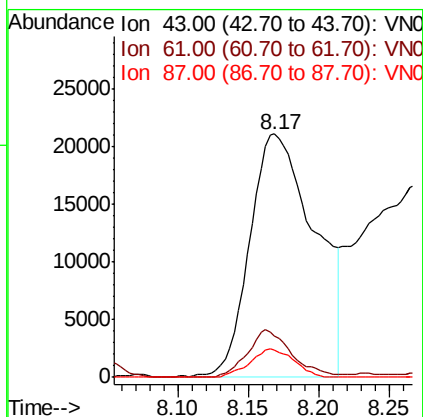
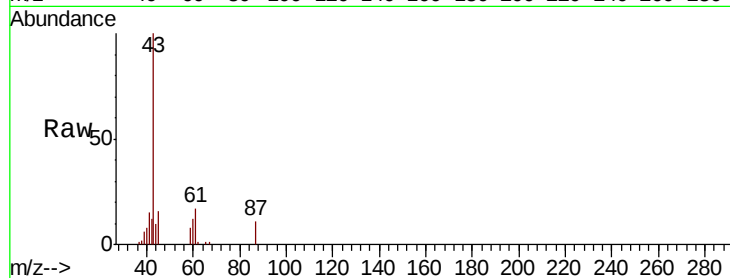
Tot Ion: 43 Resp: 68070

Ion Ratio Lower Upper

43 100

61 13.4 24.1 36.1#

87 7.8 10.6 15.8#



#45

1,2-Dichloropropane

Concen: 0.263 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052658.D

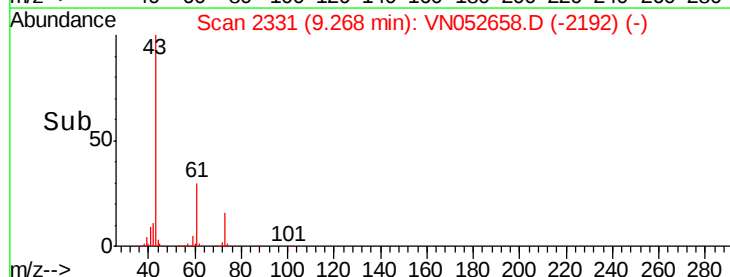
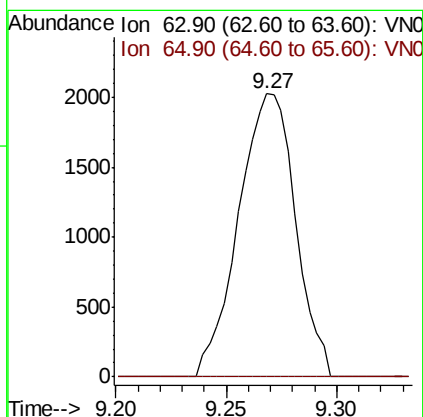
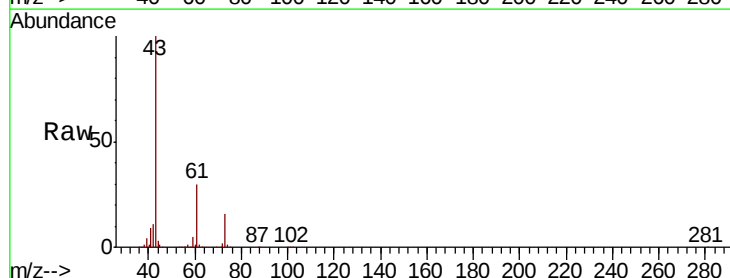
Acq: 4 Dec 2018 16:54

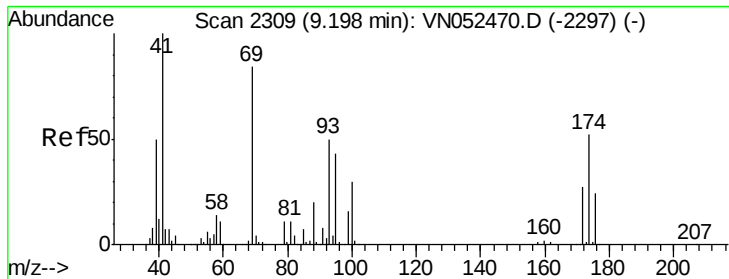
Tgt Ion: 63 Resp: 3636

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

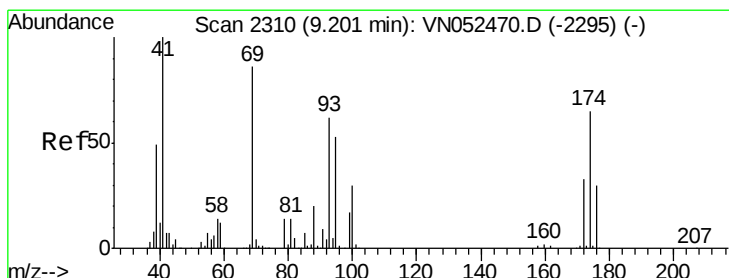
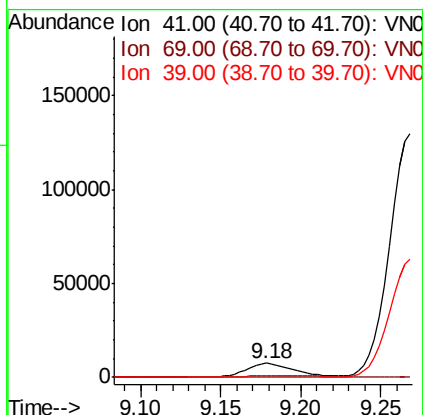
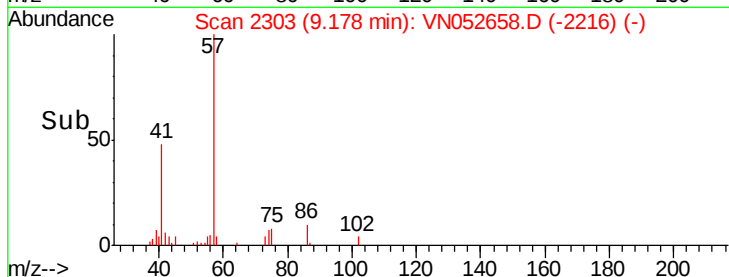
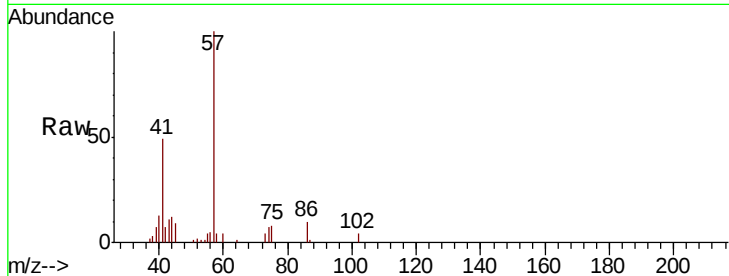




#48
Methvl methacrylate
Concen: 1.630 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052658.D
Acq: 4 Dec 2018 16:54

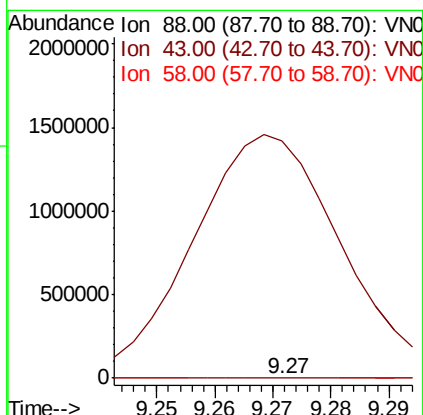
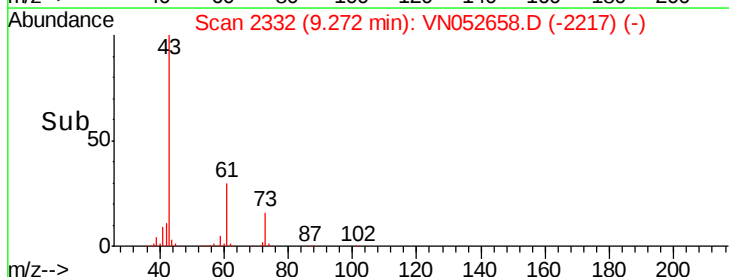
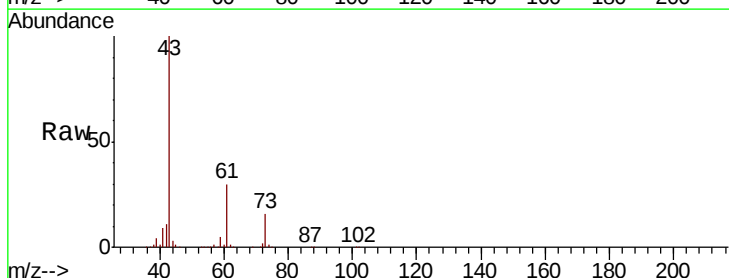
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#04

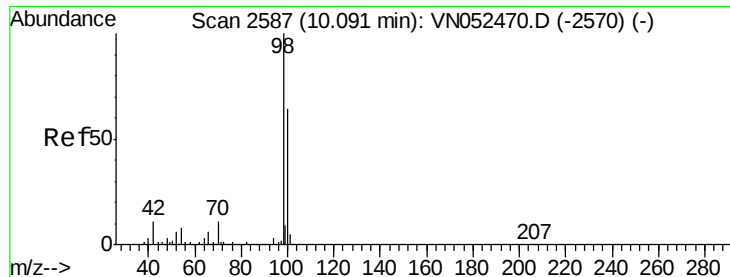
Tot Ion: 41 Resp: 15325
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 0.0 42.6 64.0#



#49
1,4-Dioxane
Concen: 1.855 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN052658.D
Acq: 4 Dec 2018 16:54

Tgt Ion: 88 Resp: 181
Ion Ratio Lower Upper
88 100
43 1472498.3 26.4 39.6#
58 6958.0 55.4 83.0#





#50

Toluene-d8

Concen: 1.855 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

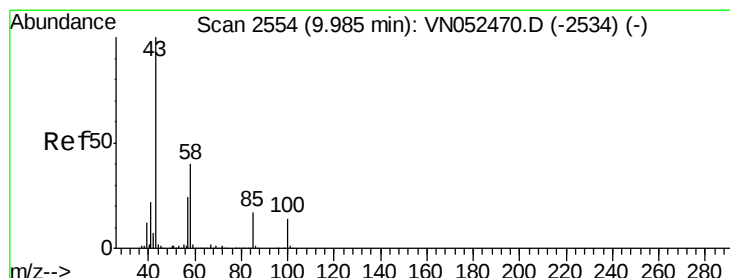
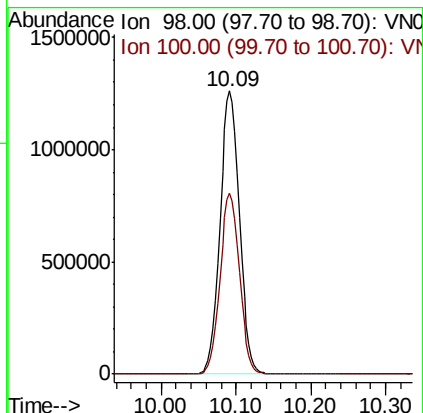
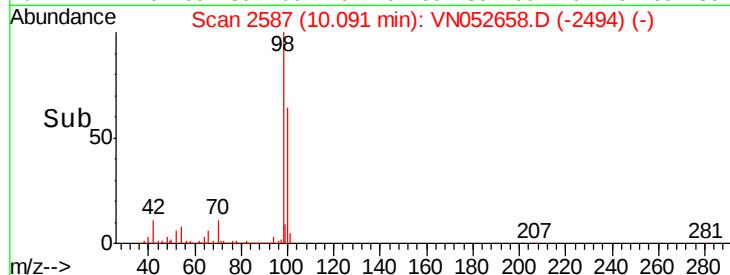
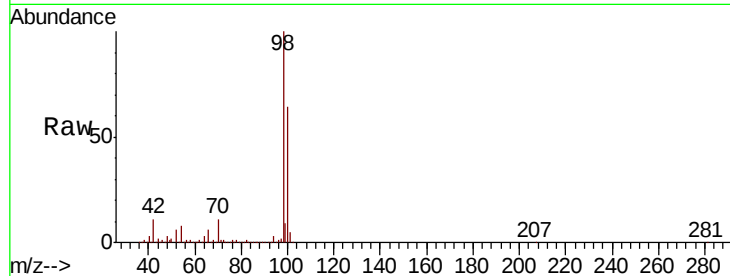
PB115293ZHE#04

Tot Ion: 98 Resp: 2263676

Ion Ratio Lower Upper

98 100

100 64.0 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 1.911 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052658.D

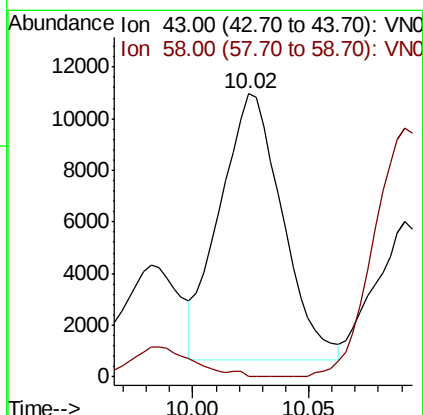
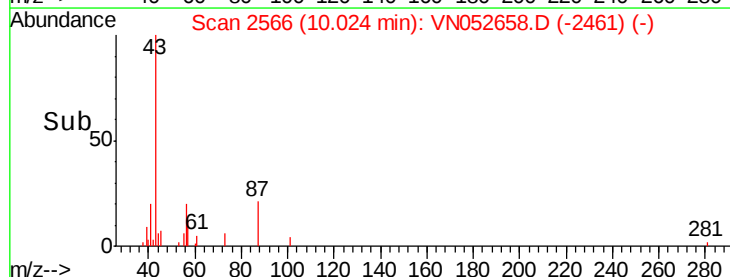
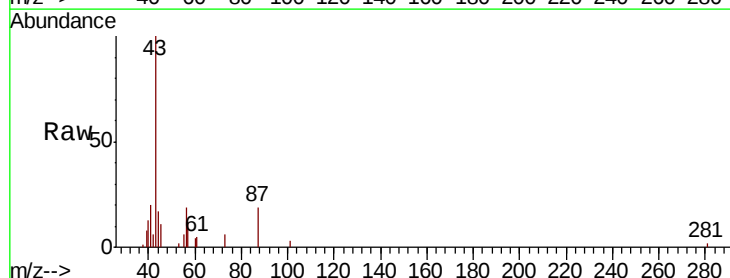
Acq: 4 Dec 2018 16:54

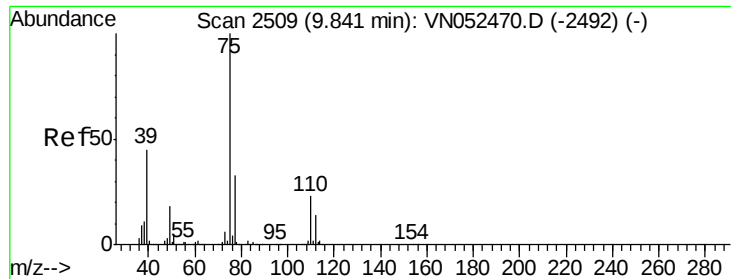
Tgt Ion: 43 Resp: 19326

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#





#54

cis-1,3-Dichloropropene

Concen: 6.412 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

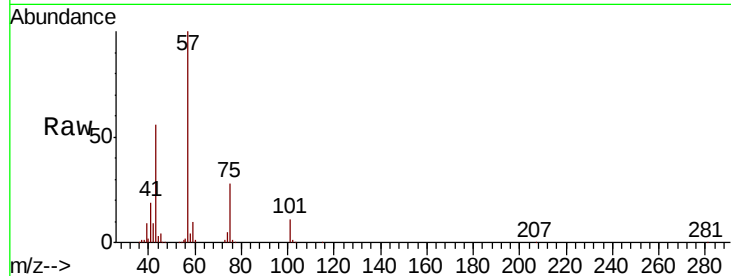
Tot Ion: 75 Resp: 123042

Ion Ratio Lower Upper

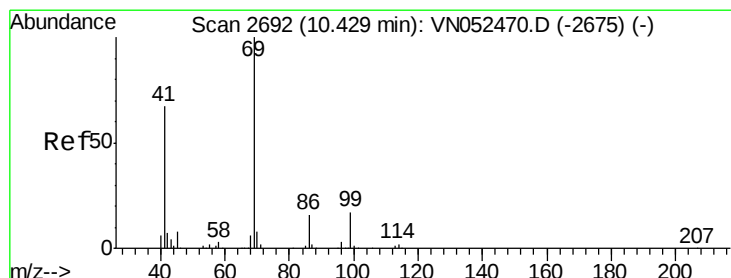
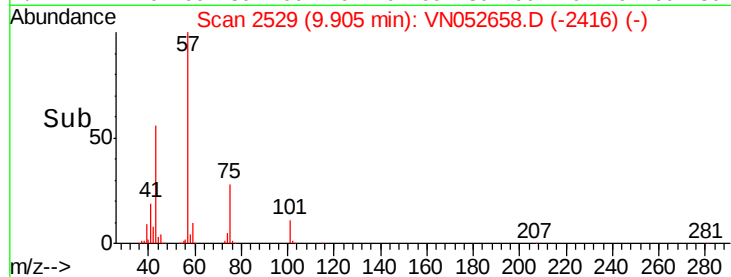
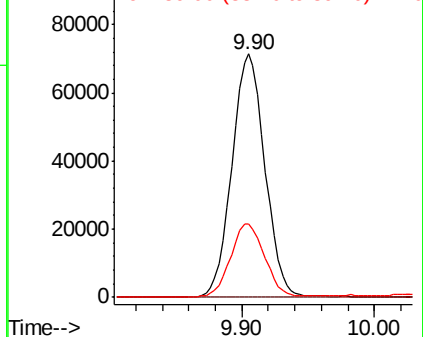
75 100

77 0.4 26.2 39.2#

39 30.2 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 2.817 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

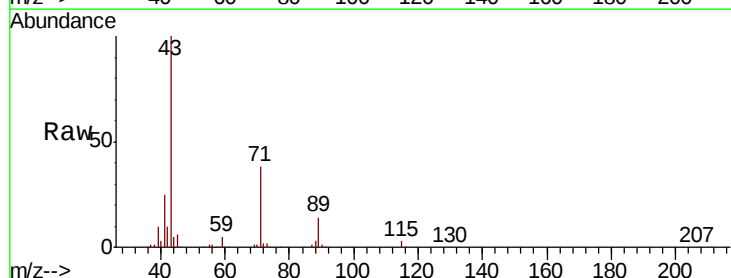
Tgt Ion: 69 Resp: 1974

Ion Ratio Lower Upper

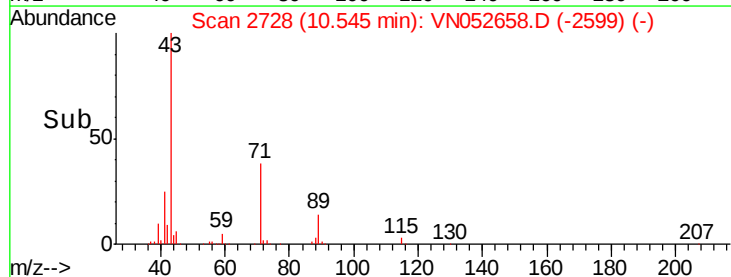
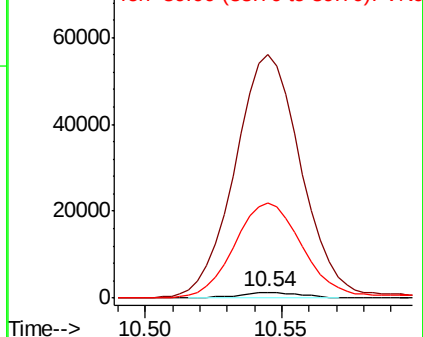
69 100

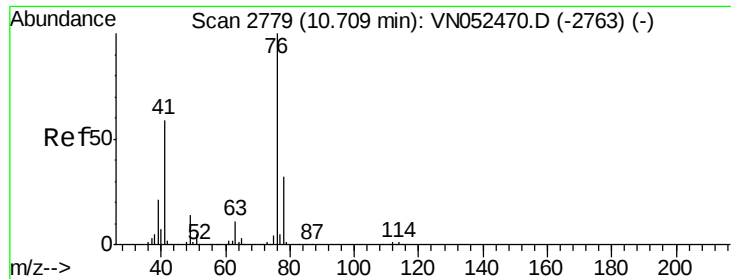
41 4841.2 52.6 79.0#

39 1941.5 25.9 38.9#



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

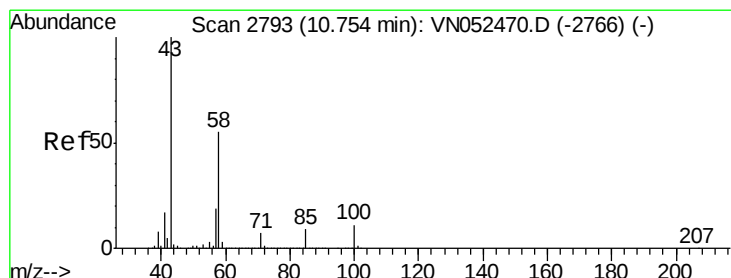
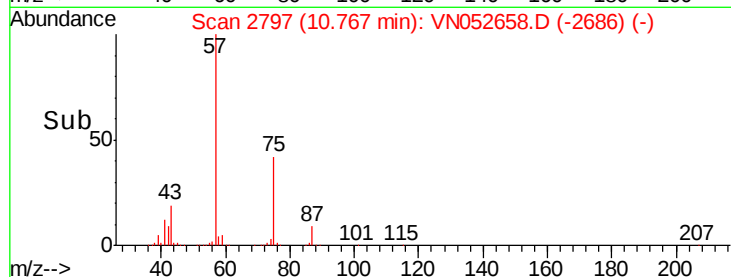
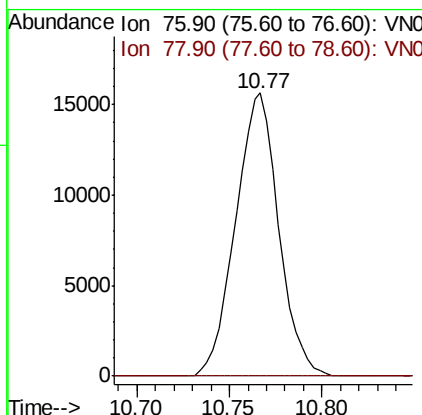
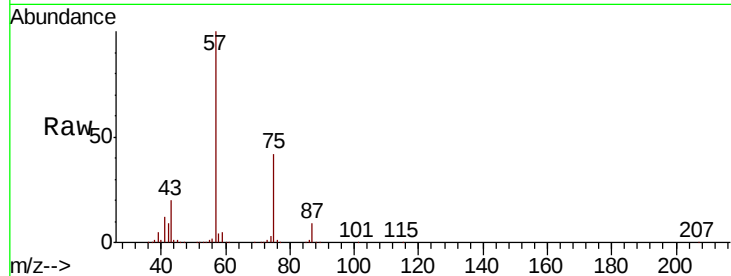




#57
 1,3-Dichloropropane
 Concen: 1.314 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN052658.D
 Acq: 4 Dec 2018 16:54

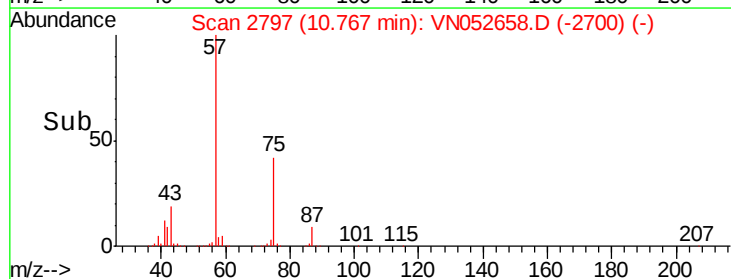
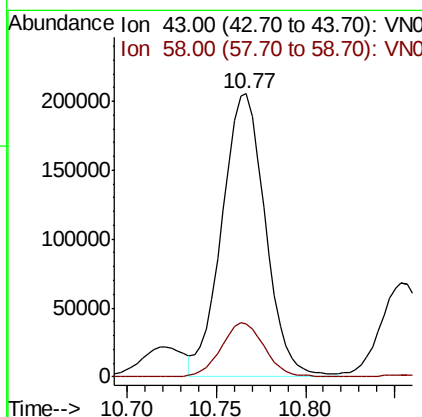
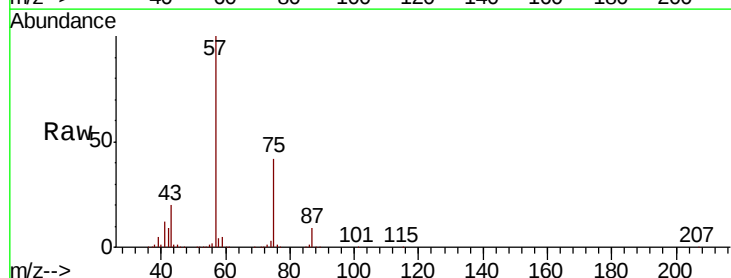
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#04

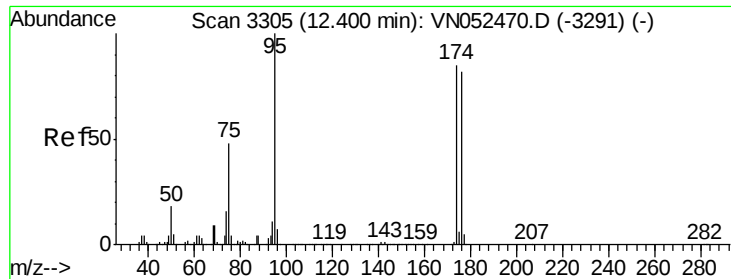
Tot Ion: 76 Resp: 25215
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 51.004 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN052658.D
 Acq: 4 Dec 2018 16:54

Tgt Ion: 43 Resp: 346232
 Ion Ratio Lower Upper
 43 100
 58 19.5 27.4 82.0#

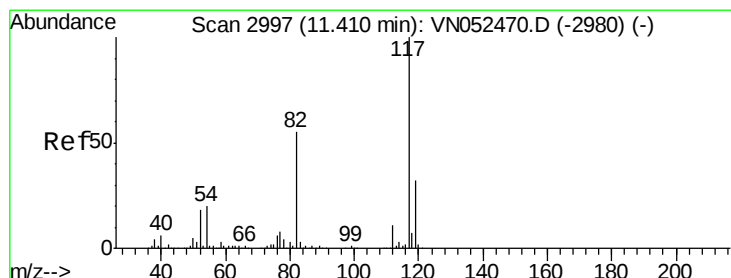
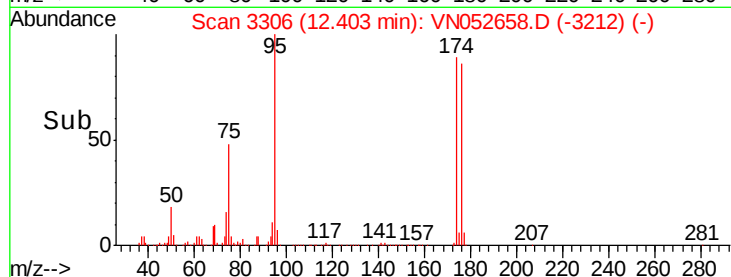
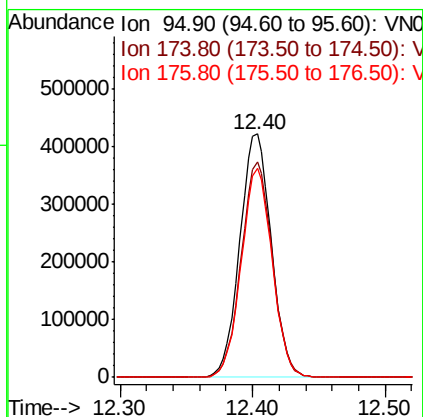
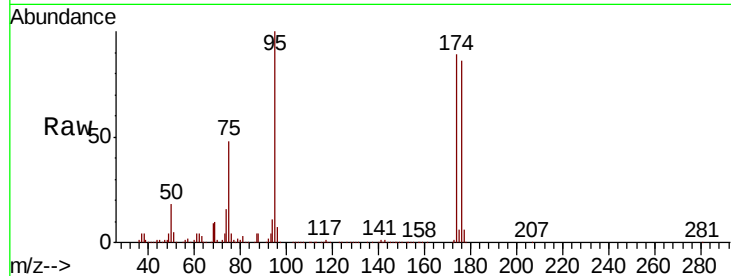




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052658.D
Acq: 4 Dec 2018 16:54

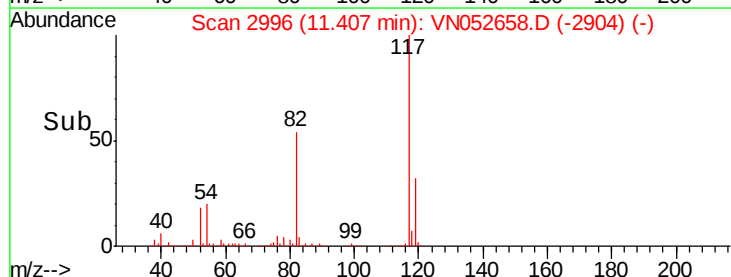
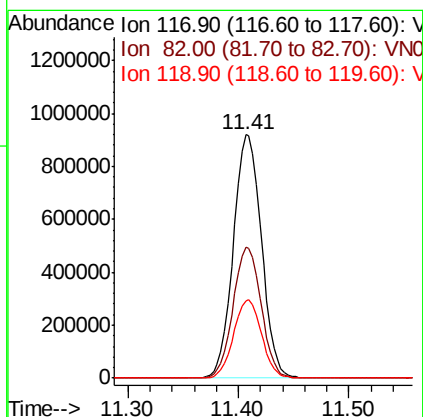
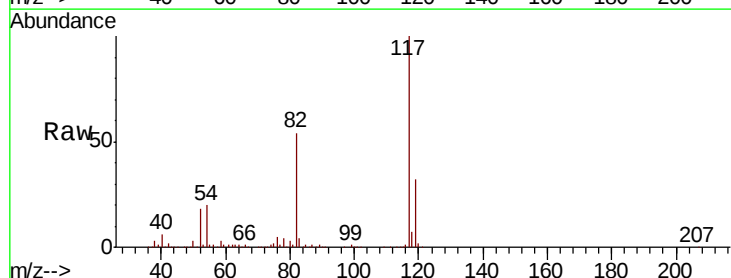
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#04

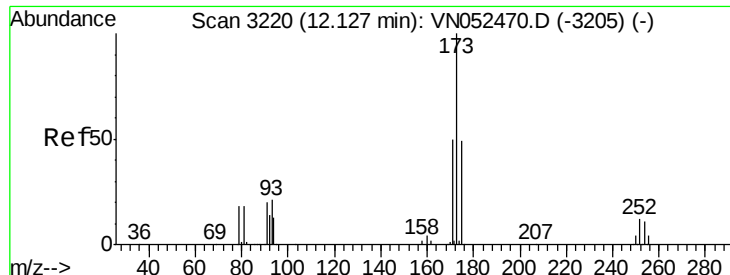
Tot Ion: 95 Resp: 693856
Ion Ratio Lower Upper
95 100
174 88.0 0.0 173.0
176 84.8 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052658.D
Acq: 4 Dec 2018 16:54

Tgt Ion: 117 Resp: 1621799
Ion Ratio Lower Upper
117 100
82 53.6 43.6 65.4
119 31.9 25.4 38.2





#71

Bromoform

Concen: 0.541 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

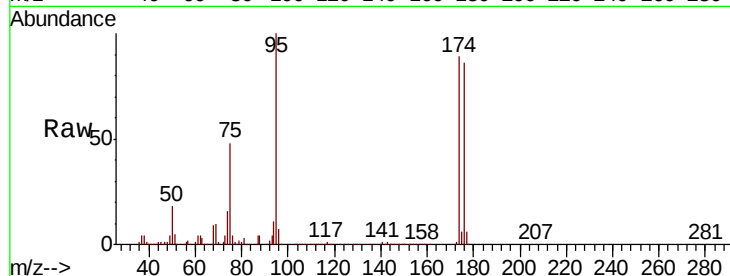
Tot Ion:173 Resp: 4166

Ion Ratio Lower Upper

173 100

175 905.2 24.4 73.2#

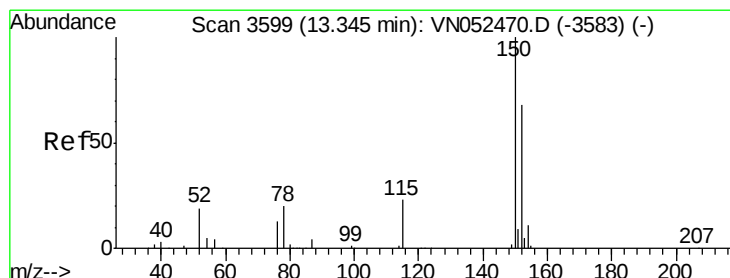
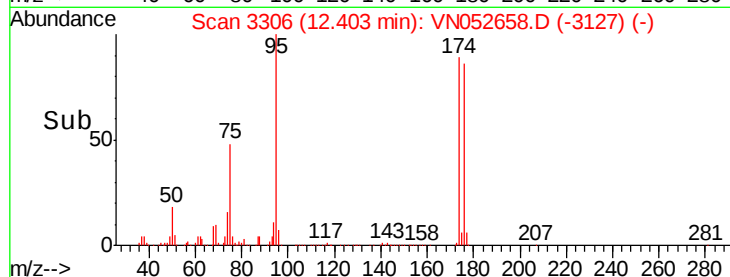
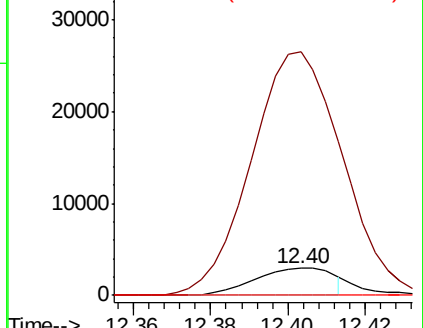
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

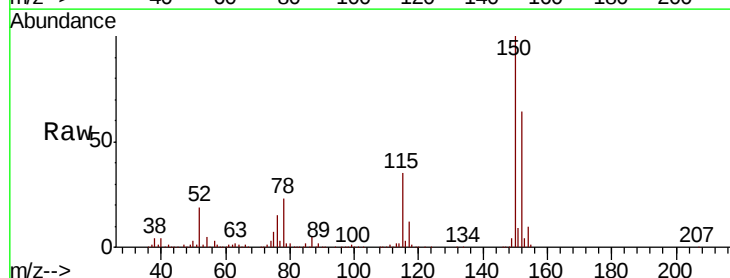
Tgt Ion:152 Resp: 578509

Ion Ratio Lower Upper

152 100

115 55.8 28.4 85.2

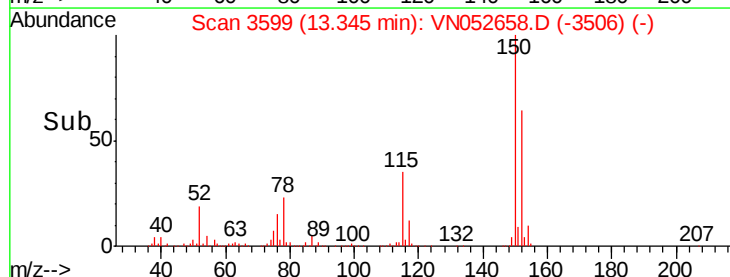
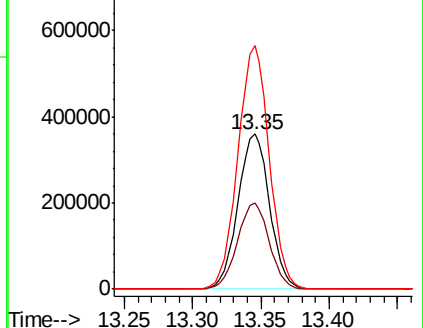
150 155.7 0.0 346.0

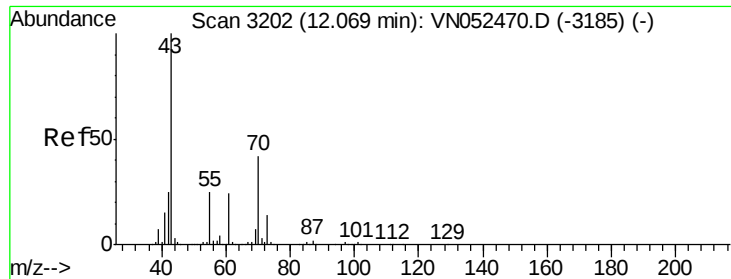


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.325 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

Tot Ion: 43 Resp: 38131

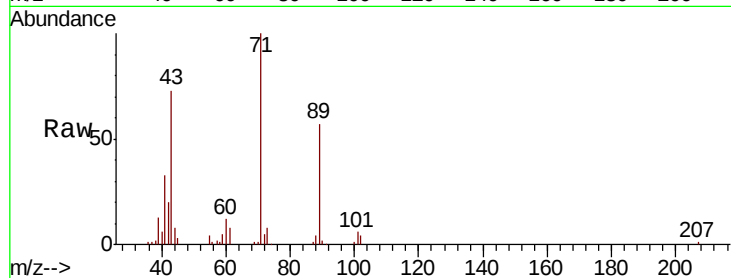
Ion Ratio Lower Upper

43 100

70 1.8 33.8 50.8#

55 4.3 20.0 30.0#

61 11.9 19.7 29.5#

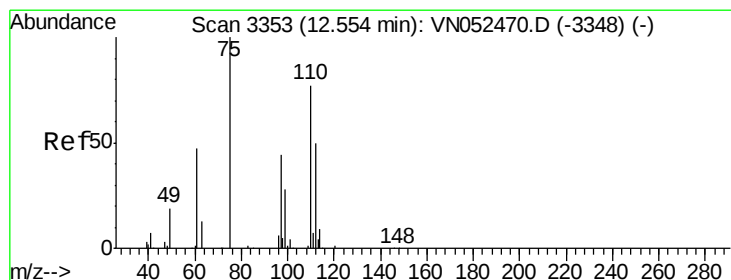
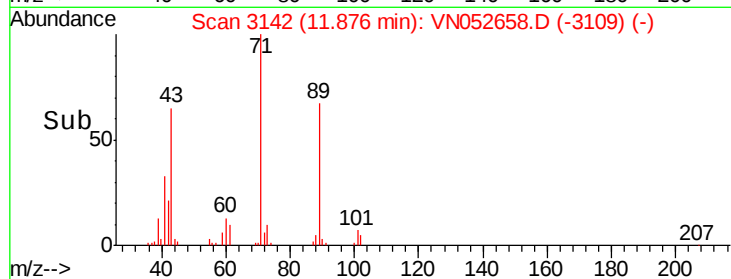
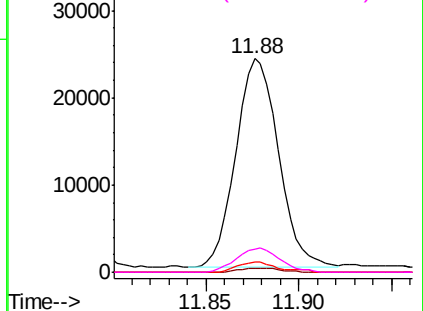


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 37.186 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052658.D

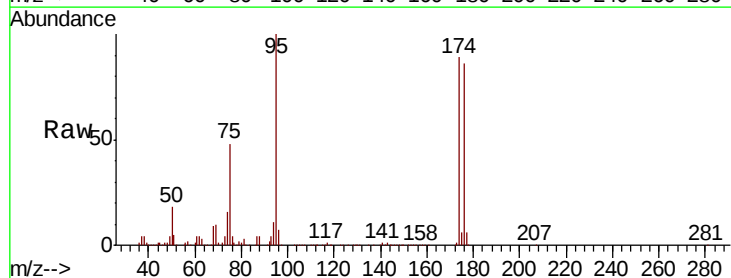
Acq: 4 Dec 2018 16:54

Tgt Ion: 75 Resp: 331733

Ion Ratio Lower Upper

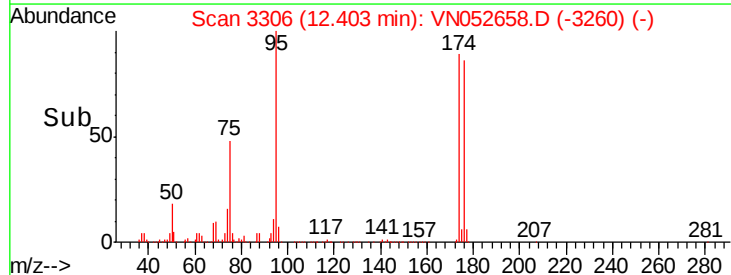
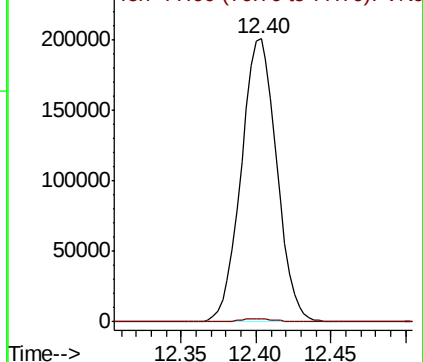
75 100

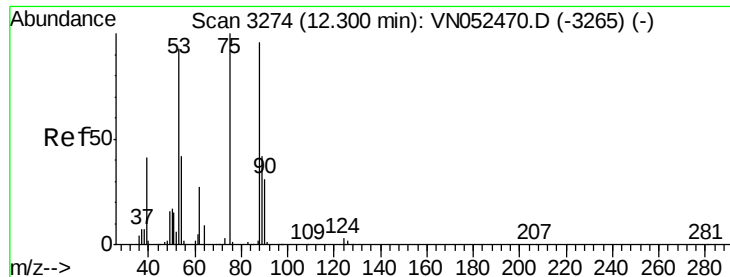
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 124.183 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

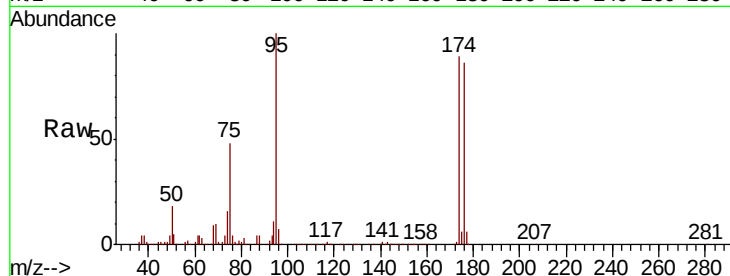
Tot Ion: 75 Resp: 331733

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

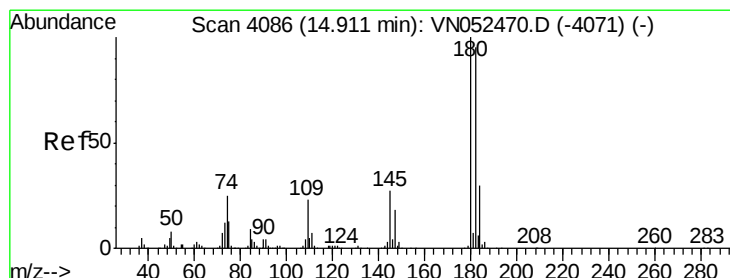
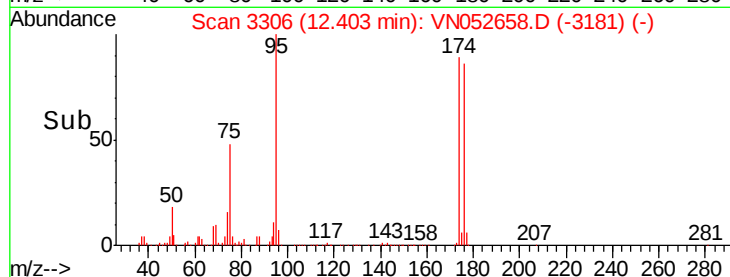
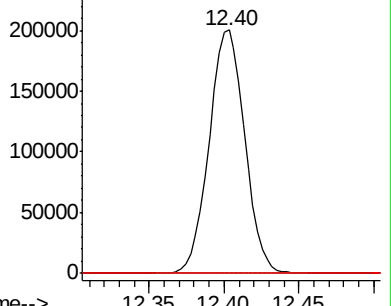
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052470.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN052470.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.846 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

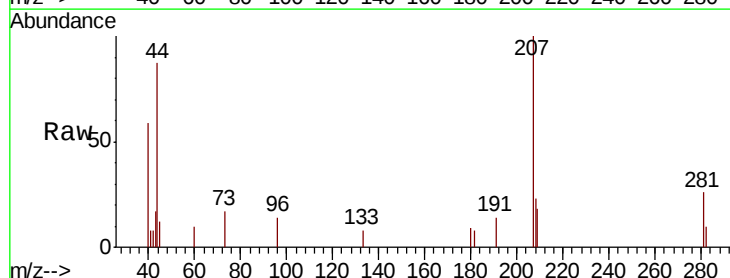
Tgt Ion: 180 Resp: 184

Ion Ratio Lower Upper

180 100

182 36.4 47.8 143.4#

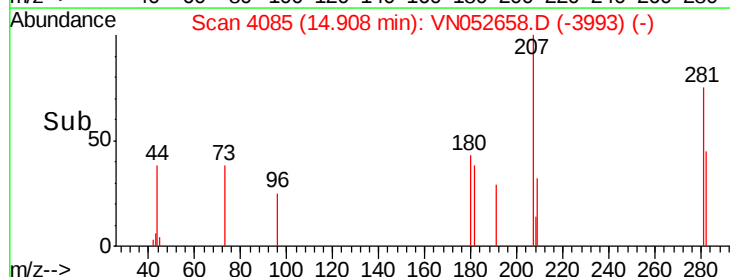
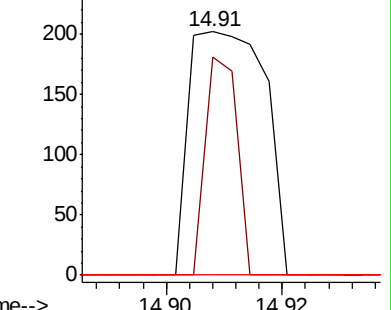
145 0.0 14.1 42.3#

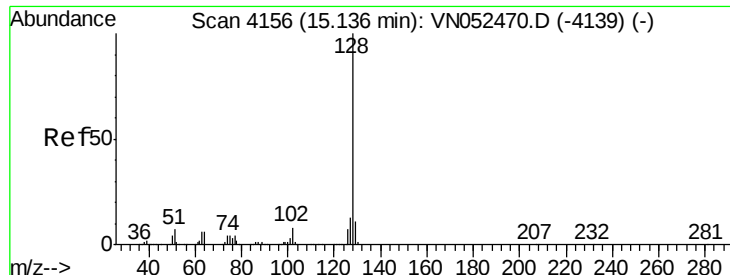


Abundance Ion 179.80 (179.50 to 180.50): VN052470.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052470.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052470.D (-4071) (-)





#95

Naphthalene

Concen: 3.451 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052658.D

Acq: 4 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#04

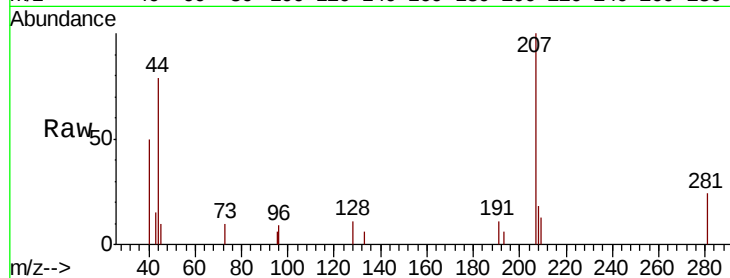
Tot Ion:128 Resp: 529

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.7 13.1#



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

