

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112918\
 Data File : VN052567.D
 Acq On : 29 Nov 2018 16:12
 Operator : MD\SY
 Sample : PB115155ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115155ZHE#05

Quant Time: Nov 30 00:26:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 28 01:11:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1284649	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1949532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1719228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	633277	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	664367	47.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.00%	
35) Dibromofluoromethane	7.59	113	604581	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	10.09	98	2380134	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.40	95	744973	47.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.78%	

Target Compounds

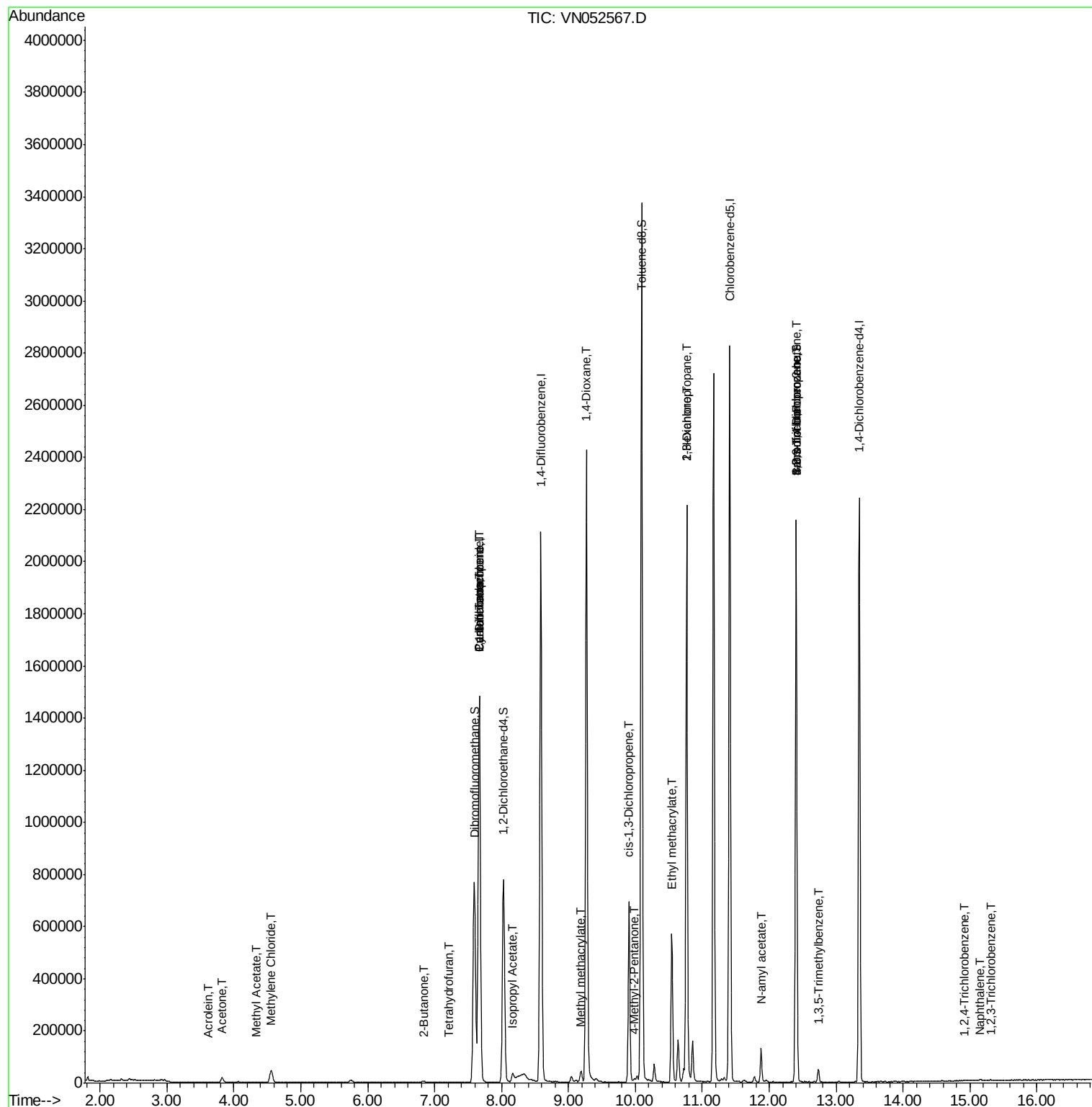
						Qvalue
13) Acrolein	3.62	56	245	33.648	ug/l	96
16) Acetone	3.82	43	32422	8.788	ug/l	97
18) Methyl Acetate	4.34	43	4562	0.431	ug/l #	65
20) Methylene Chloride	4.56	84	34979	2.423	ug/l	96
25) 2-Butanone	6.84	43	3685	0.705	ug/l #	85
29) Tetrahydrofuran	7.23	42	2075	0.615	ug/l #	42
31) Cyclohexane	7.66	56	23095	0.598	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	87474	4.751	ug/l #	49
38) Carbon Tetrachloride	7.67	117	113827	6.830	ug/l #	15
43) Isopropyl Acetate	8.17	43	48208	2.535	ug/l #	84
48) Methyl methacrylate	9.18	41	14332	1.446	ug/l #	13
49) 1,4-Dioxane	9.28	88	131	1.273	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	7599	0.712	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	129089	6.378	ug/l #	61
56) Ethyl methacrylate	10.55	69	1725	2.796	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	24030	1.187	ug/l #	43
59) 2-Hexanone	10.77	43	325984	45.529	ug/l #	51
71) Bromoform	12.40	173	4352	0.533	ug/l #	1
74) N-amyl acetate	11.88	43	39986	3.186	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	351567	36.001	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	25443	0.642	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	351567	120.226	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	469	2.869	ug/l #	58
95) Naphthalene	15.14	128	2272	3.517	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.32	180	894	2.809	ug/l #	55

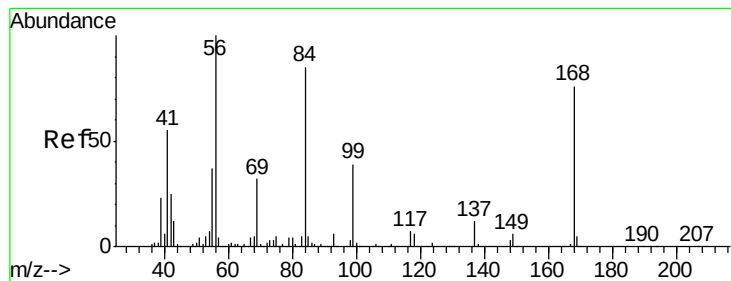
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 28 01:11:38 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: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

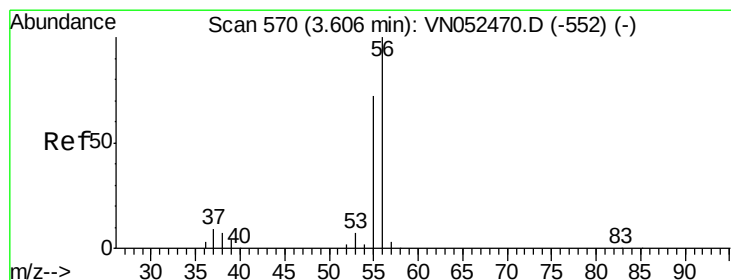
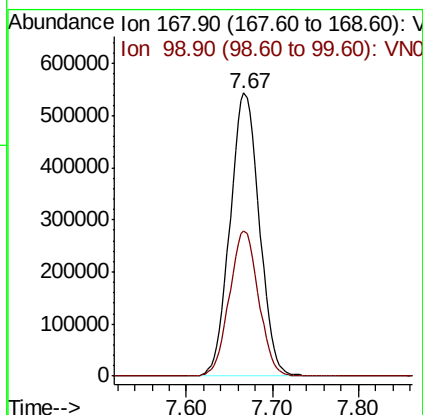
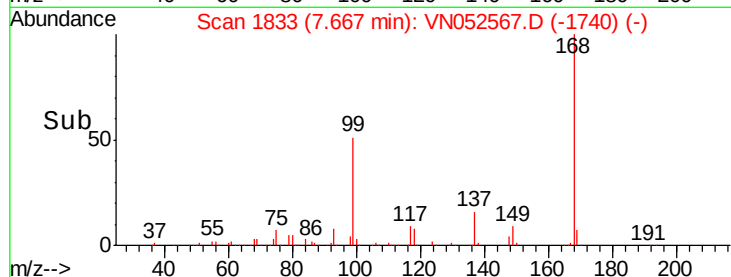
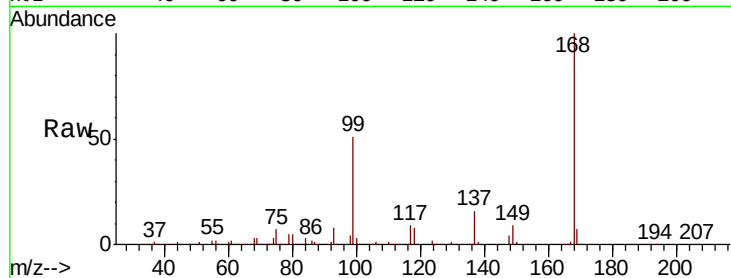
PB115155ZHE#05

Tot Ion:168 Resp: 1284649

Ion Ratio Lower Upper

168 100

99 51.4 41.7 62.5



#13

Acrolein

Concen: 33.648 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052567.D

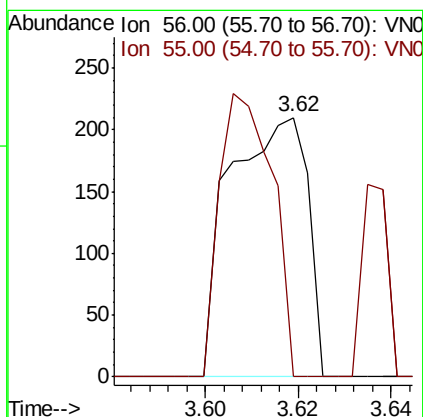
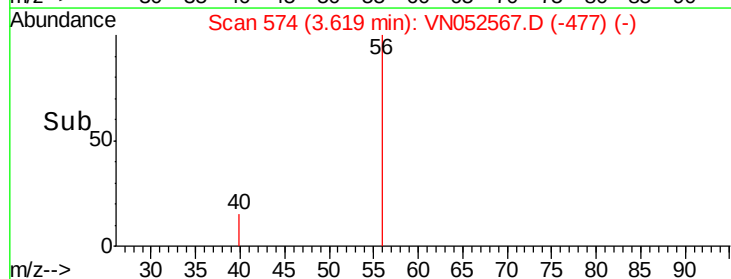
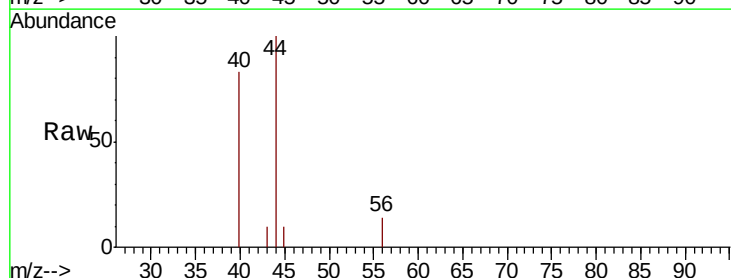
Acq: 29 Nov 2018 16:12

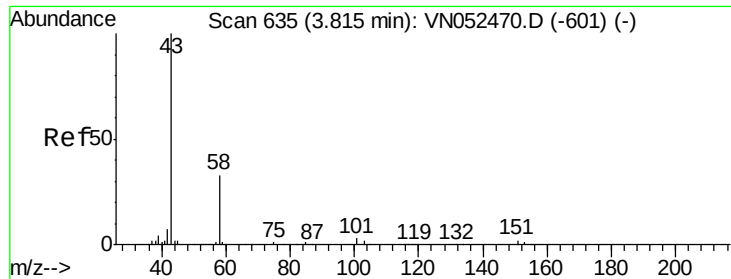
Tgt Ion: 56 Resp: 245

Ion Ratio Lower Upper

56 100

55 74.3 56.8 85.2

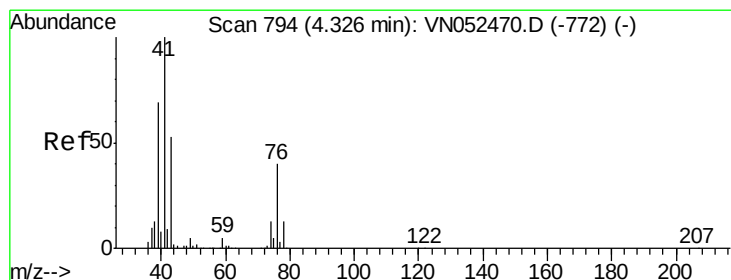
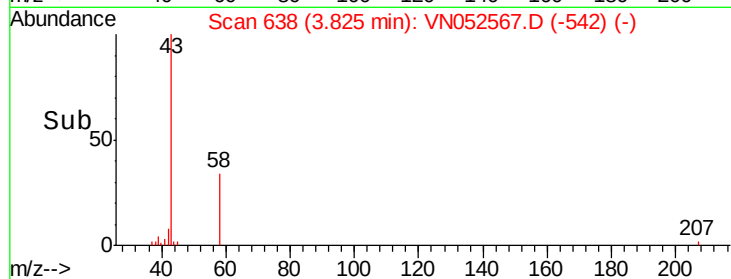
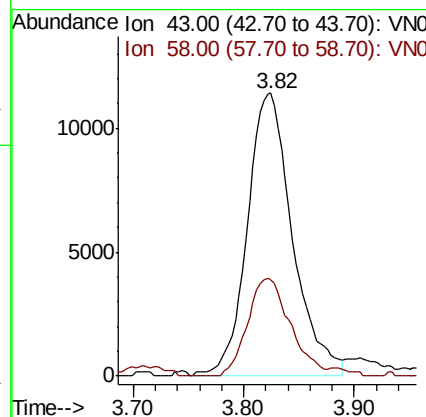
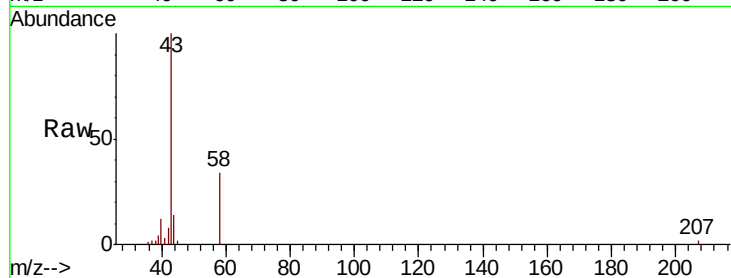




#16
Acetone
Concen: 8.788 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

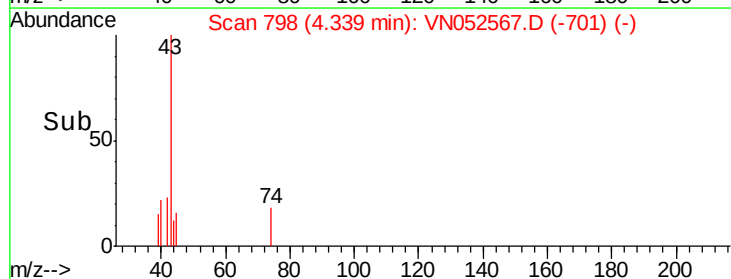
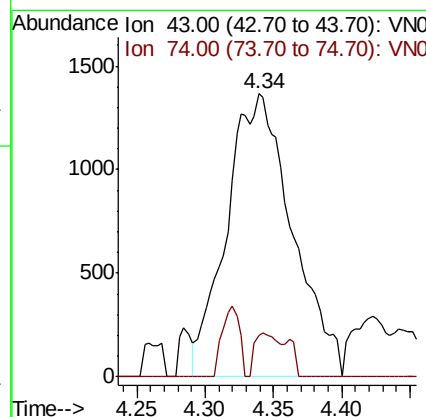
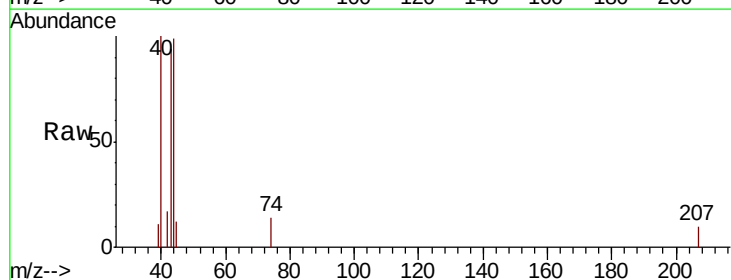
Instrument :
MSVOA_N
ClientSampleId :
PB115155ZHE#05

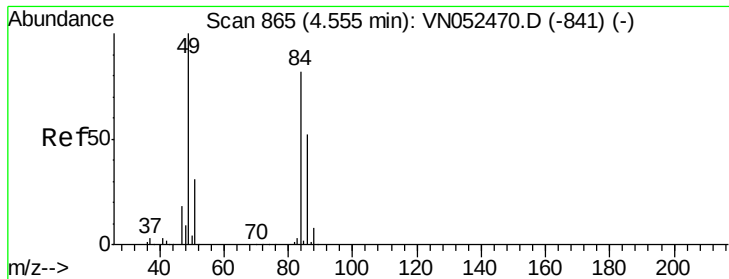
Tot Ion: 43 Resp: 32422
Ion Ratio Lower Upper
43 100
58 34.2 26.0 39.0



#18
Methyl Acetate
Concen: 0.431 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

Tgt Ion: 43 Resp: 4562
Ion Ratio Lower Upper
43 100
74 6.2 18.6 27.8#

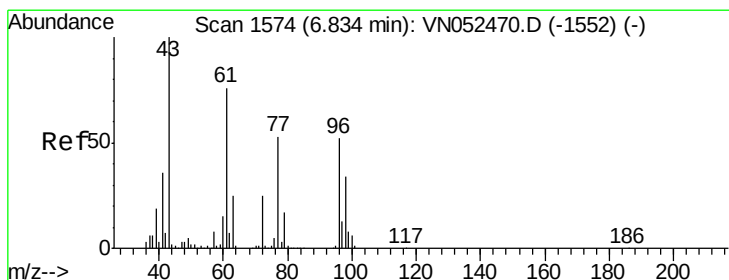
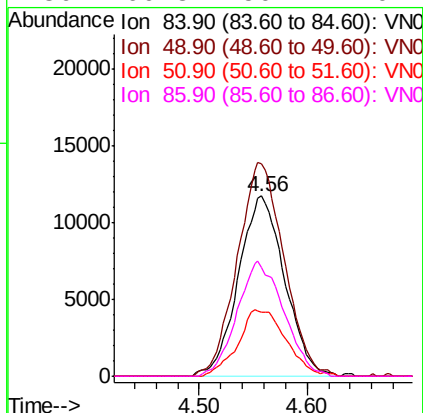
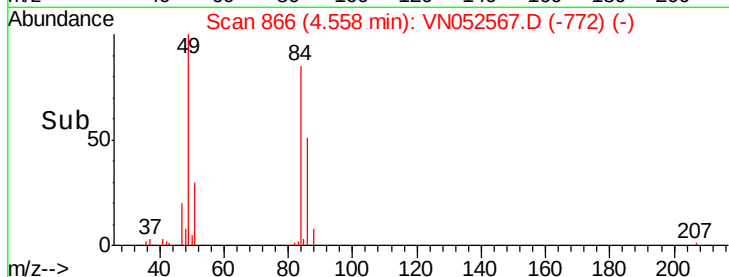
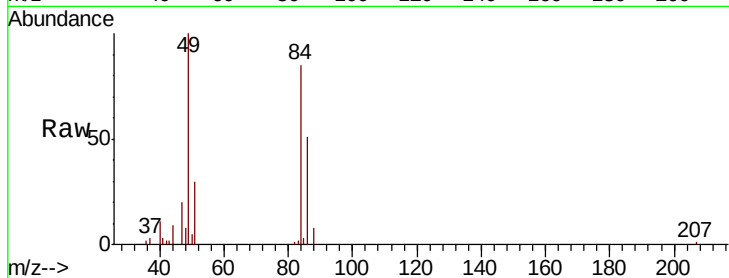




#20
Methylene Chloride
Concen: 2.423 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

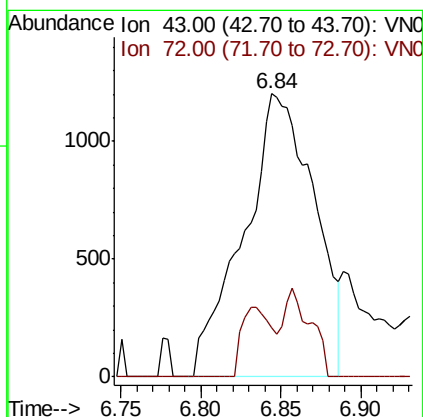
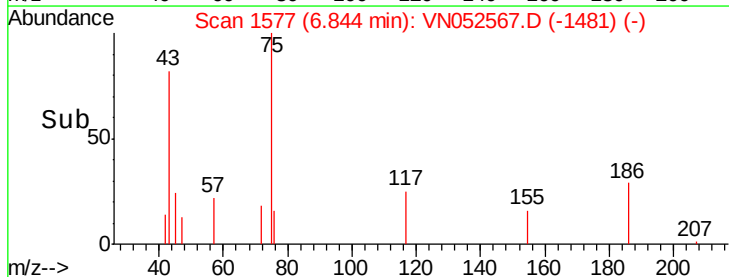
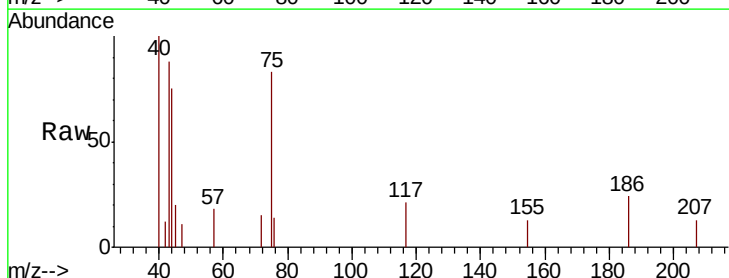
Instrument :
MSVOA_N
ClientSampleId :
PB115155ZHE#05

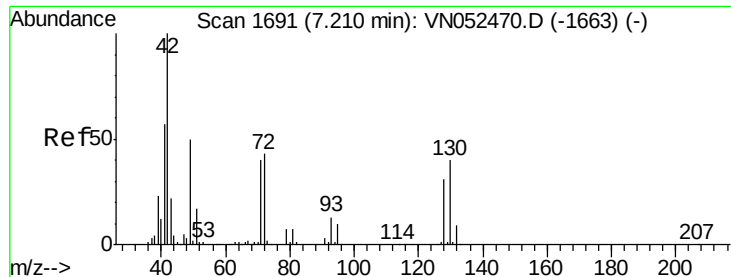
Tot Ion: 84 Resp: 34979
Ion Ratio Lower Upper
84 100
49 117.9 98.0 147.0
51 35.4 30.1 45.1
86 60.3 50.7 76.1



#25
2-Butanone
Concen: 0.705 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

Tgt Ion: 43 Resp: 3685
Ion Ratio Lower Upper
43 100
72 17.5 20.1 30.1#





#29

Tetrahydrofuran

Concen: 0.615 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

PB115155ZHE#05

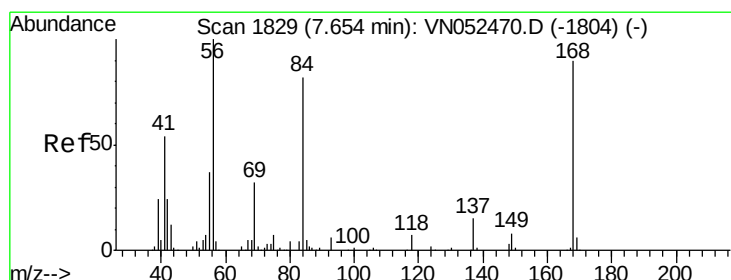
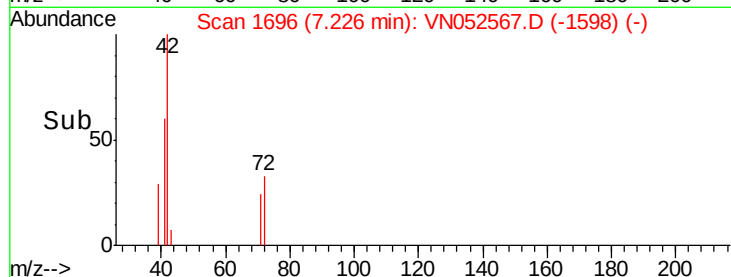
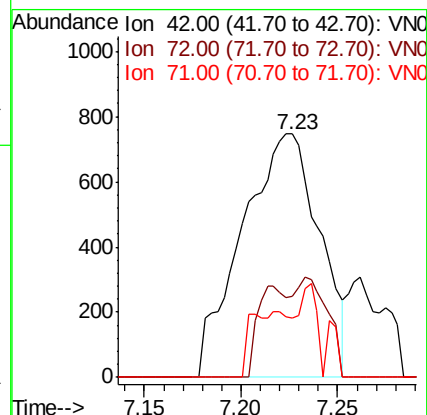
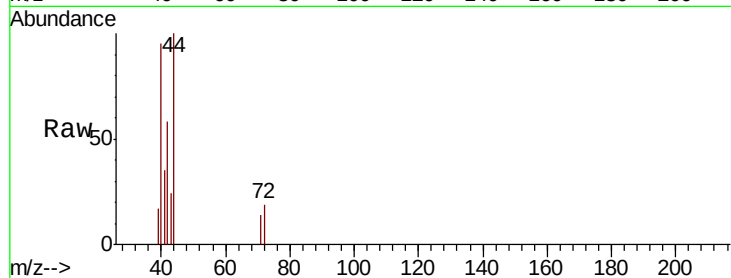
Tot Ion: 42 Resp: 2075

Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

71 8.9 32.0 48.0#



#31

Cyclohexane

Concen: 0.598 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

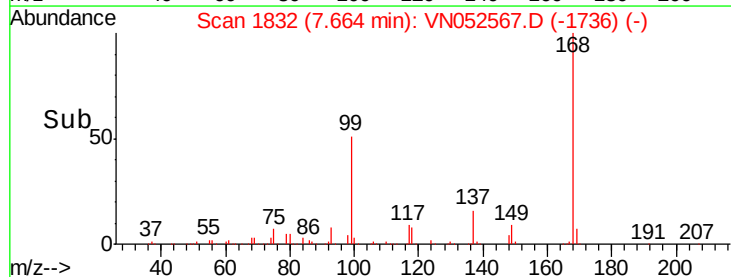
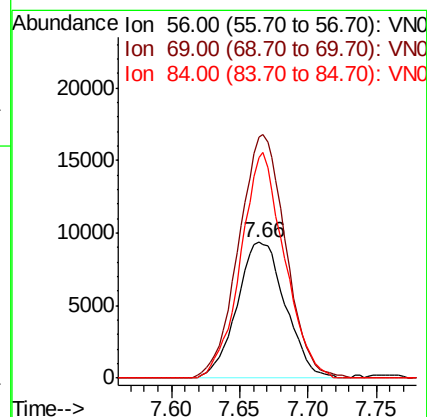
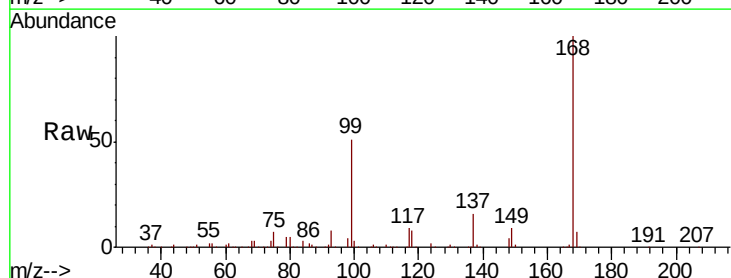
Tgt Ion: 56 Resp: 23095

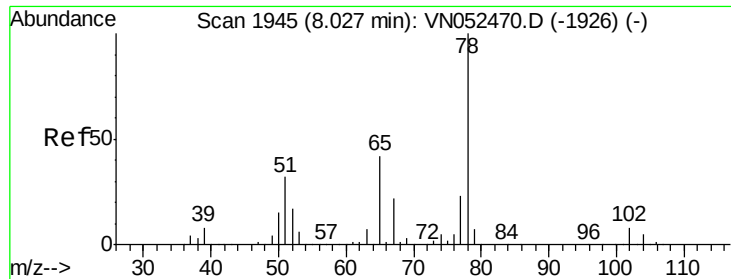
Ion Ratio Lower Upper

56 100

69 177.2 25.8 38.6#

84 162.8 65.3 97.9#

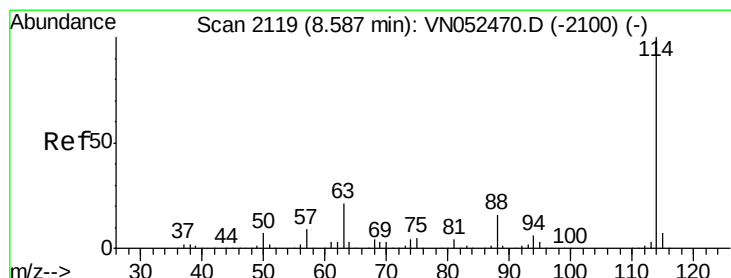
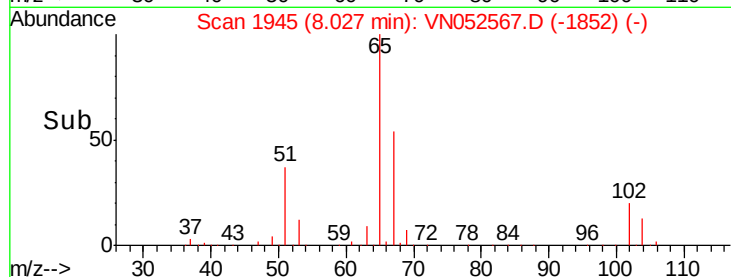
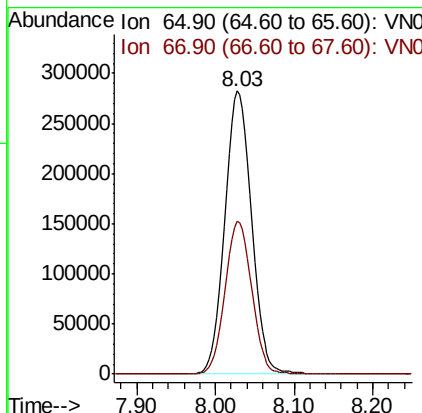
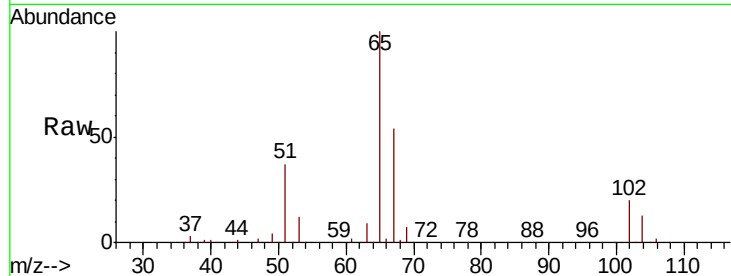




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

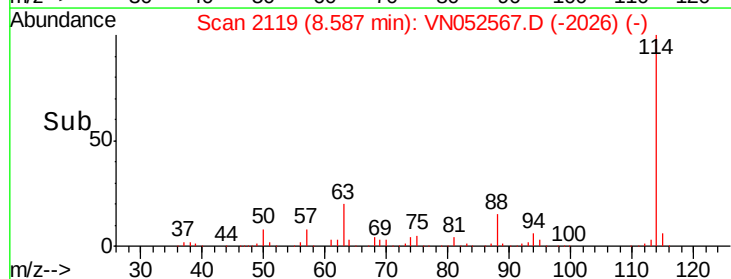
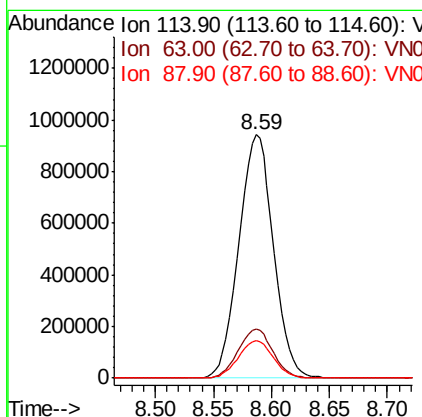
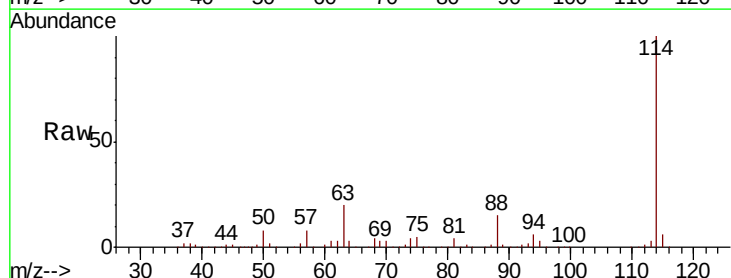
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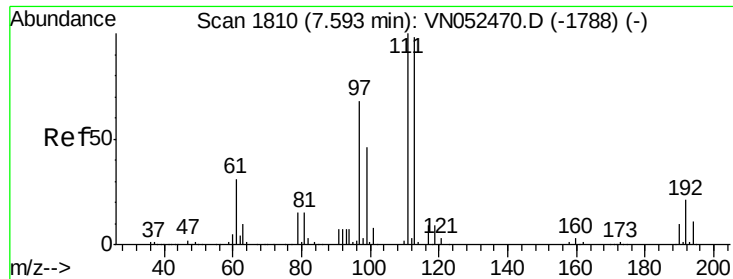
Tot Ion: 65 Resp: 664367
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

Tgt Ion: 114 Resp: 1949532
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.8
 88 15.4 0.0 31.6

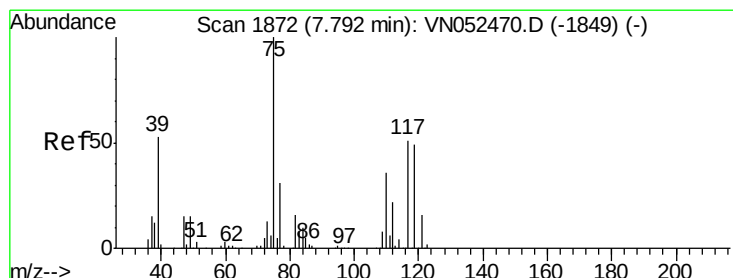
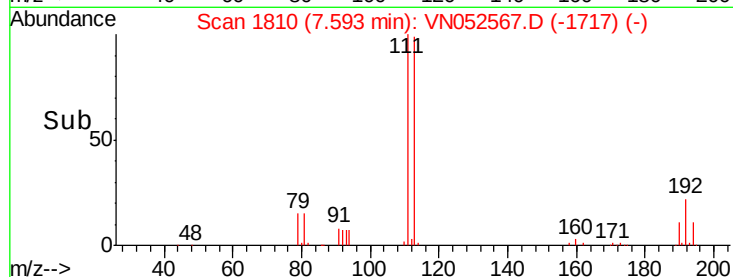
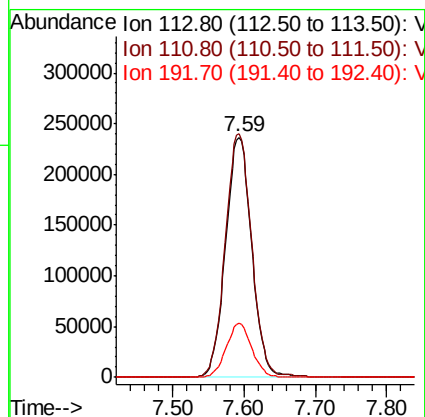
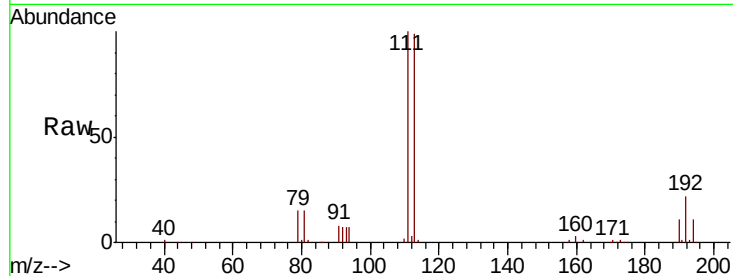




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

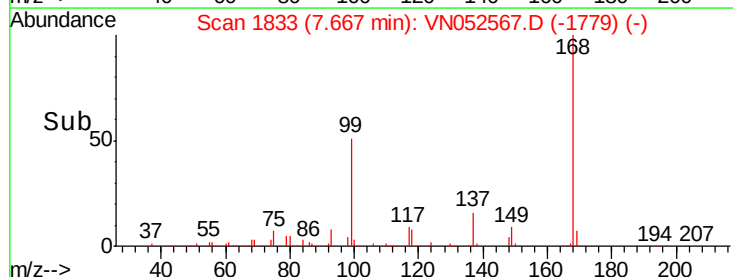
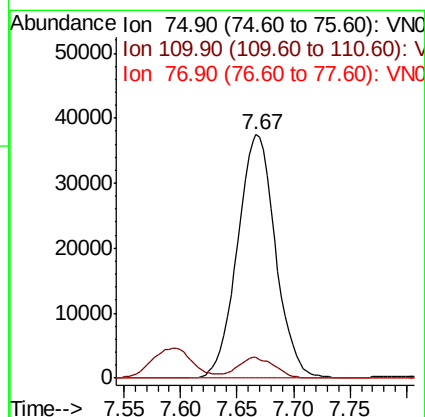
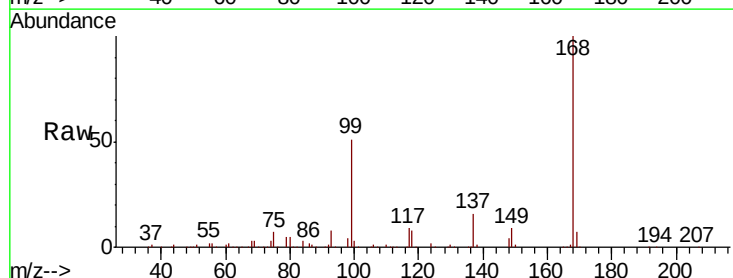
Instrument :
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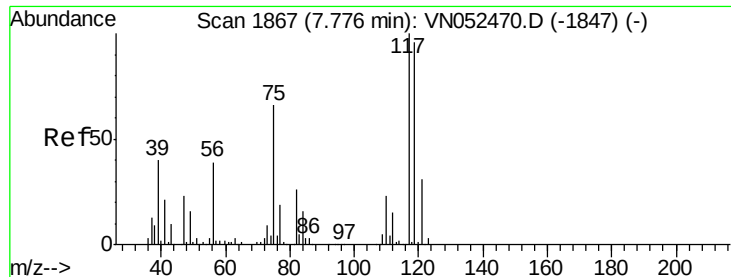
Tot Ion:113 Resp: 604581
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.0 123.0
 192 21.9 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 4.751 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

Tgt Ion: 75 Resp: 87474
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.5 52.6#
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.830 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

PB115155ZHE#05

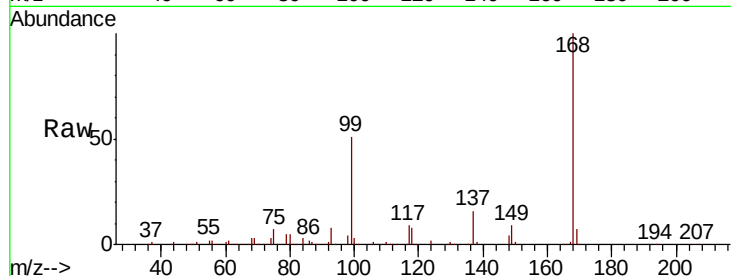
Tot Ion:117 Resp: 113827

Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

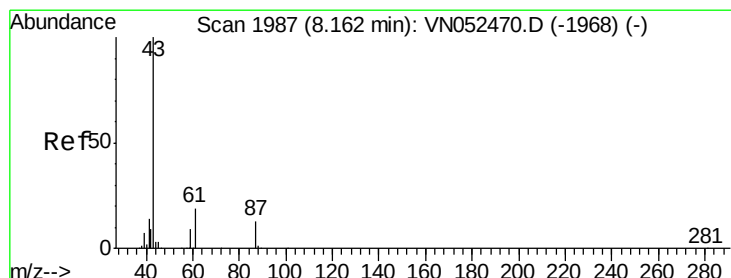
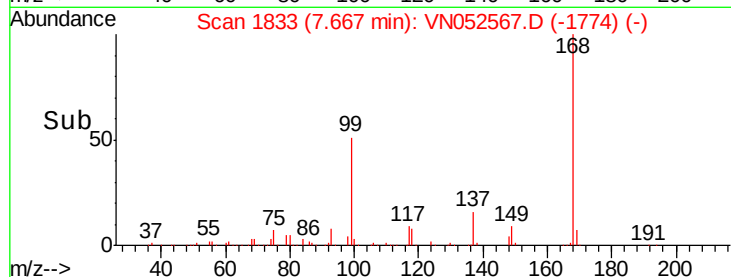
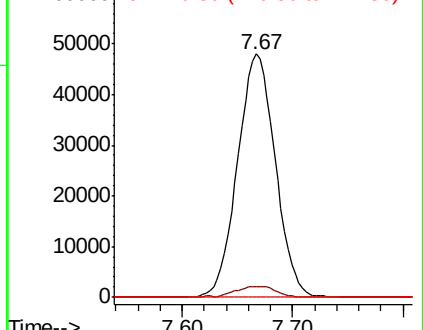
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.535 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

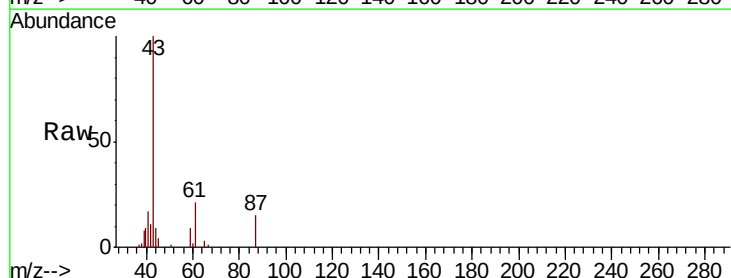
Tgt Ion: 43 Resp: 48208

Ion Ratio Lower Upper

43 100

61 18.0 24.1 36.1#

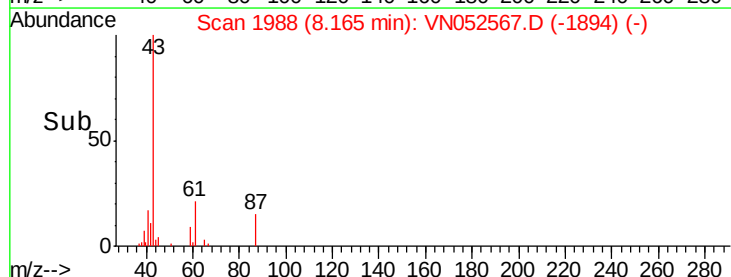
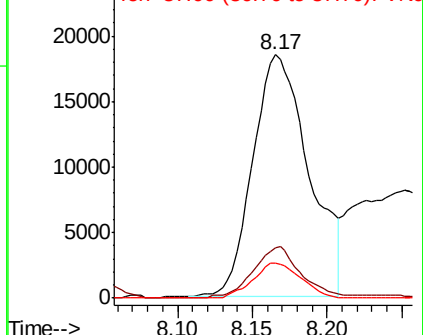
87 12.3 10.6 15.8

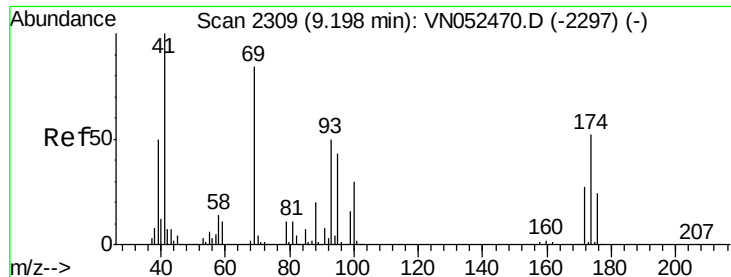


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

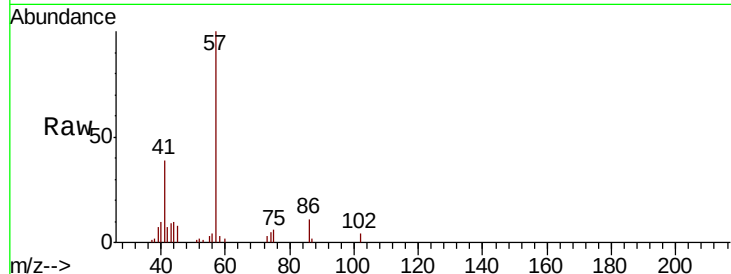




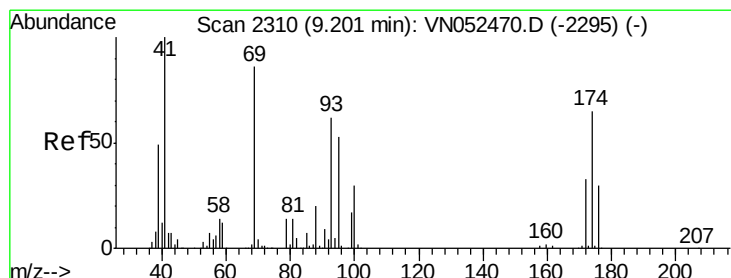
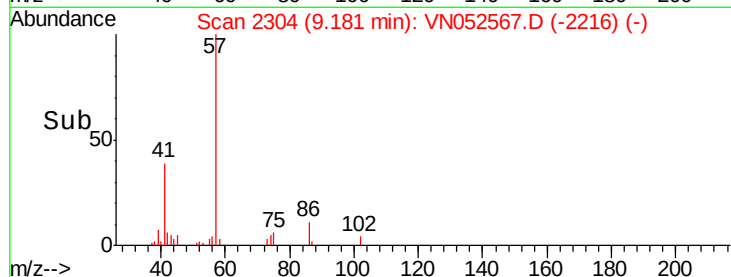
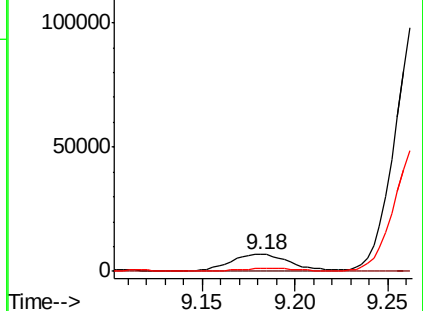
#48
Methvl methacrylate
Concen: 1.446 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
PB115155ZHE#05

Tot Ion: 41 Resp: 14332
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 0.0 42.6 64.0#

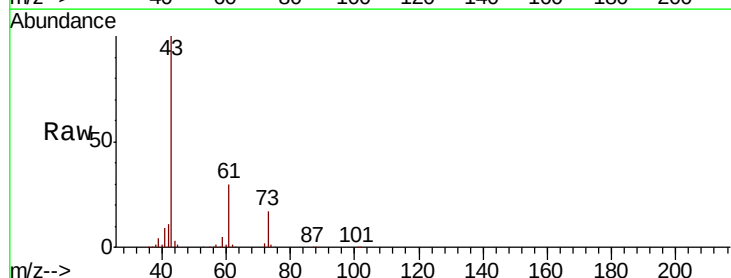


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

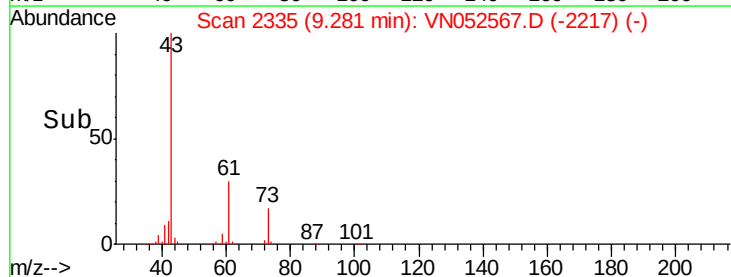
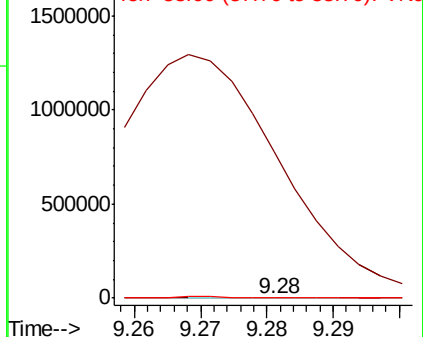


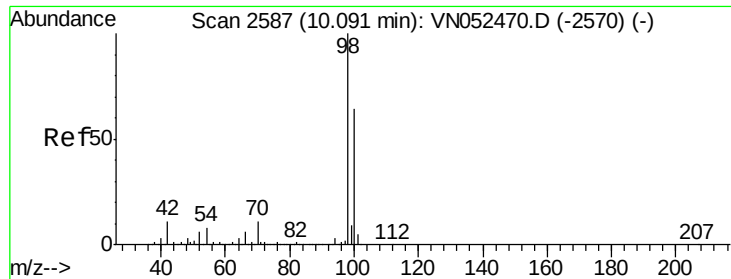
#49
1,4-Dioxane
Concen: 1.273 ug/l
RT: 9.28 min Scan# 2335
Delta R.T. 0.08 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

Tgt Ion: 88 Resp: 131
Ion Ratio Lower Upper
88 100
43 1851467.9 26.4 39.6#
58 8409.2 55.4 83.0#



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





#50

Toluene-d8

Concen: 1.273 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

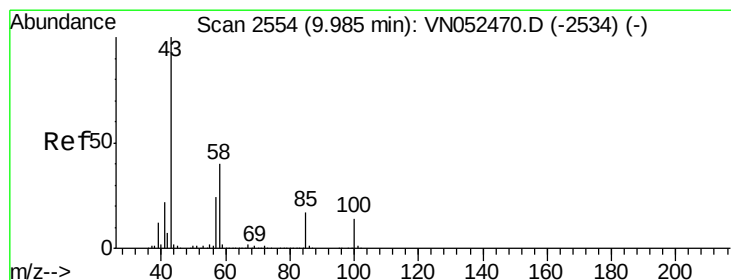
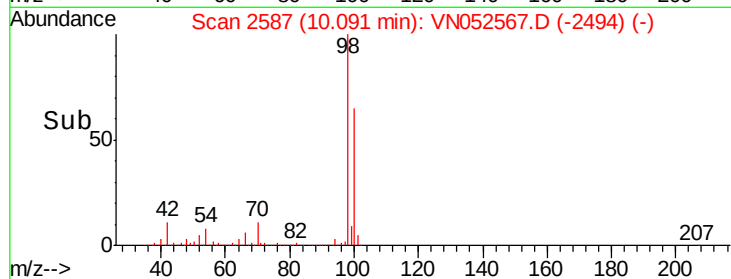
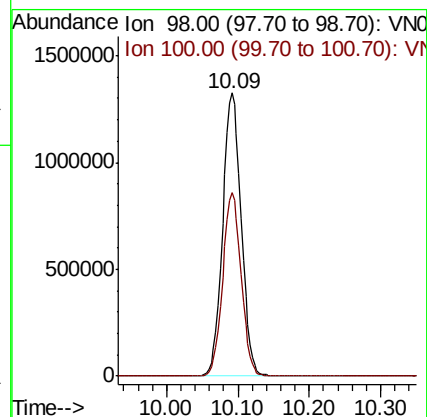
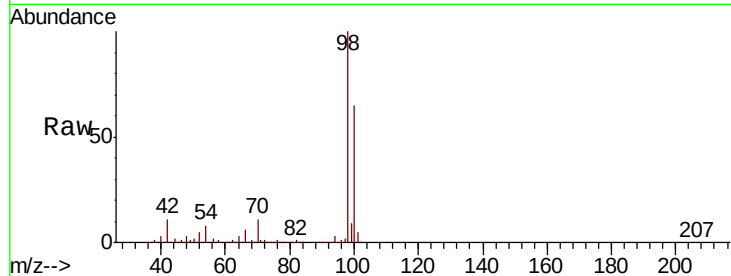
PB115155ZHE#05

Tot Ion: 98 Resp: 2380134

Ion Ratio Lower Upper

98 100

100 64.4 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 0.712 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN052567.D

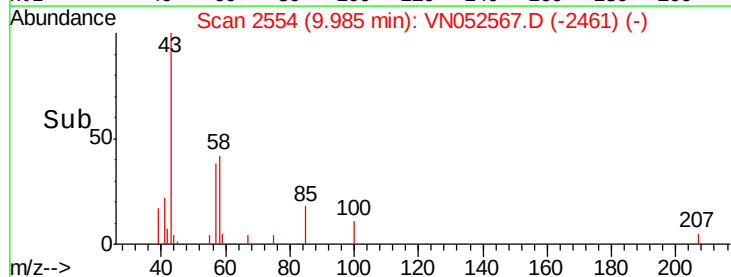
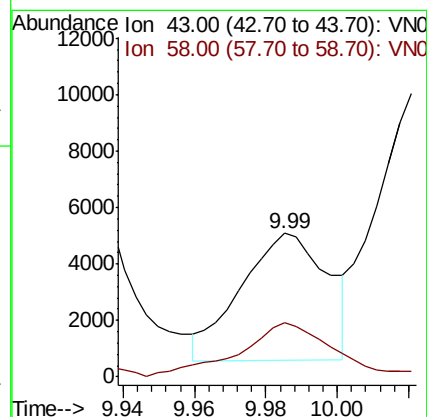
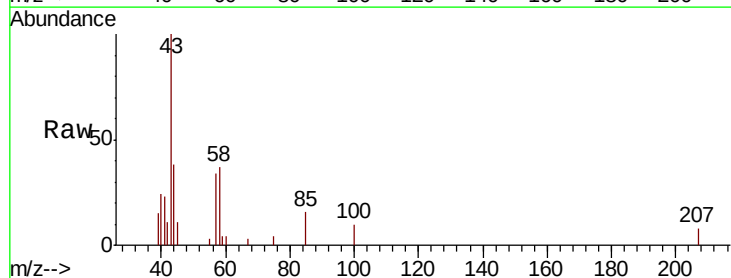
Acq: 29 Nov 2018 16:12

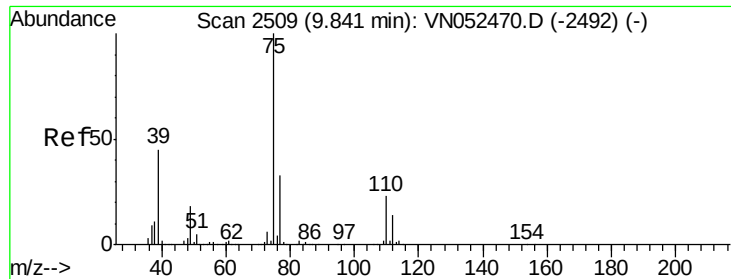
Tgt Ion: 43 Resp: 7599

Ion Ratio Lower Upper

43 100

58 45.8 31.5 47.3





#54

cis-1,3-Dichloropropene

Concen: 6.378 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

PB115155ZHE#05

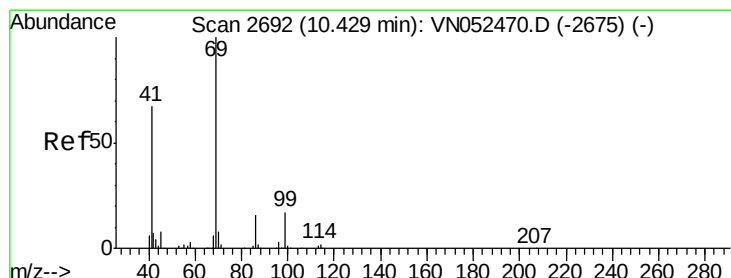
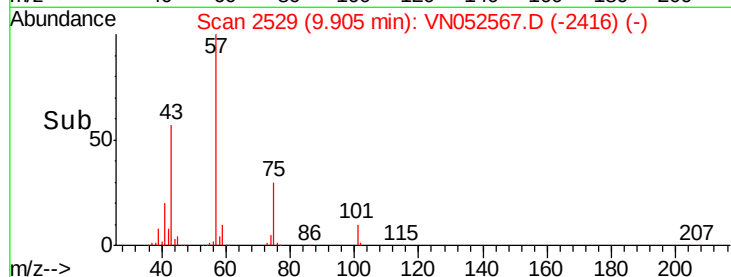
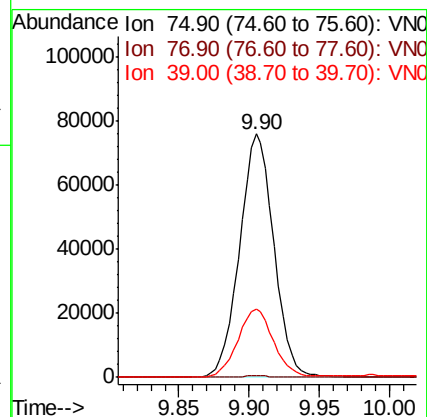
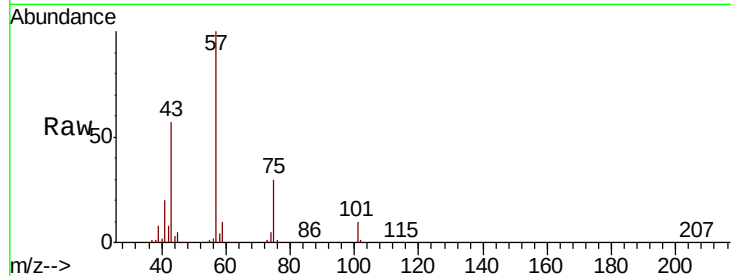
Tot Ion: 75 Resp: 129089

Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

39 27.9 36.0 54.0#



#56

Ethyl methacrylate

Concen: 2.796 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

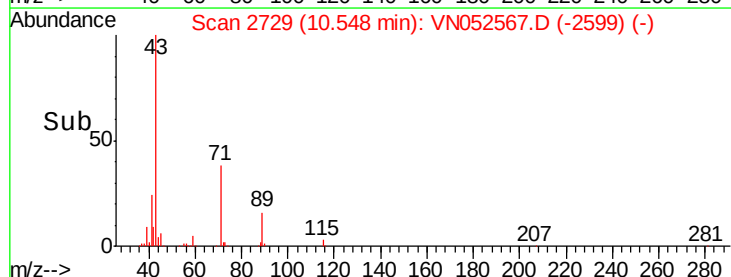
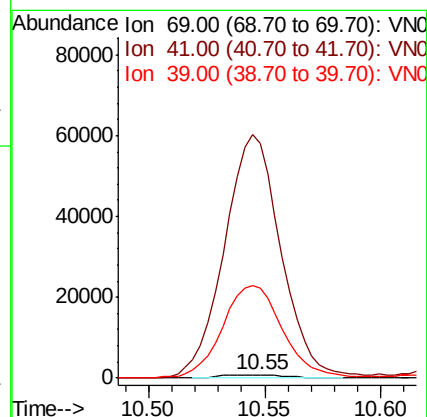
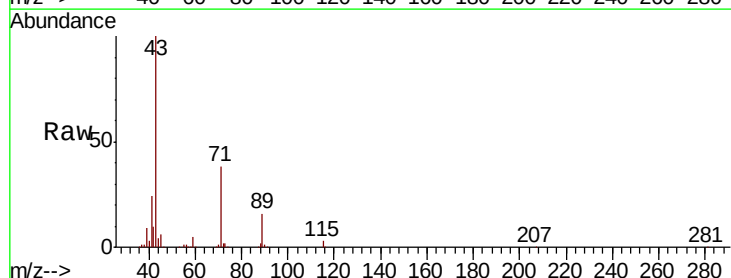
Tgt Ion: 69 Resp: 1725

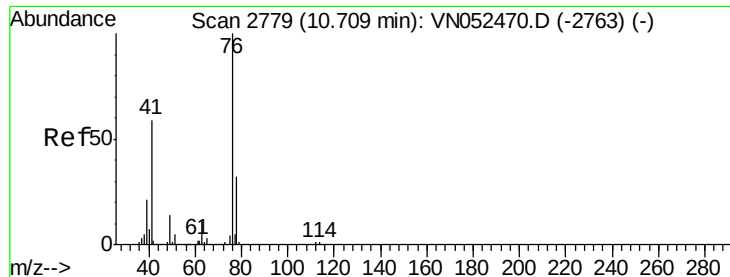
Ion Ratio Lower Upper

69 100

41 5931.5 52.6 79.0#

39 2408.3 25.9 38.9#





#57

1,3-Dichloropropane

Concen: 1.187 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

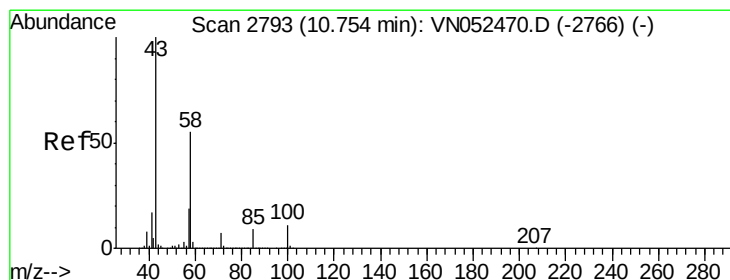
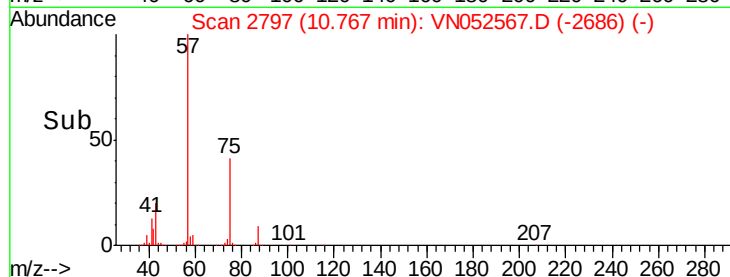
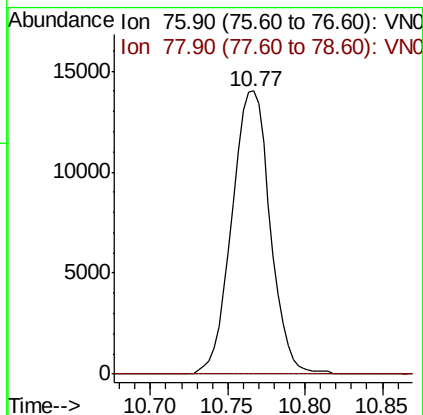
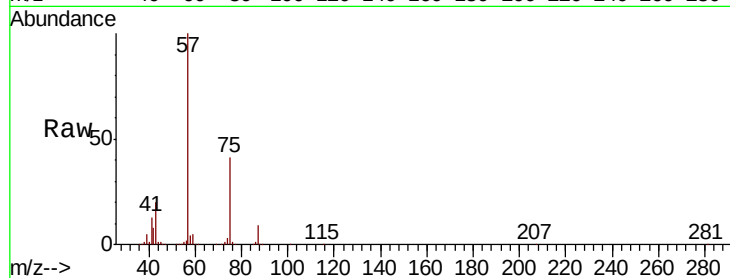
PB115155ZHE#05

Tot Ion: 76 Resp: 24030

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 45.529 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN052567.D

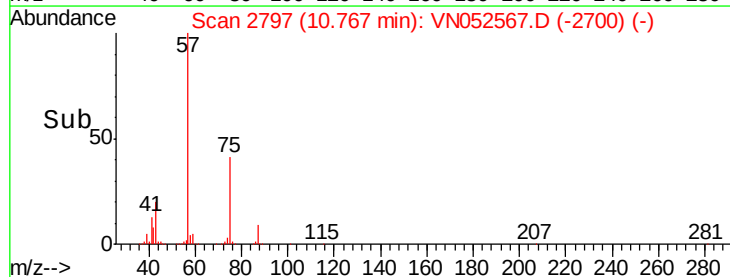
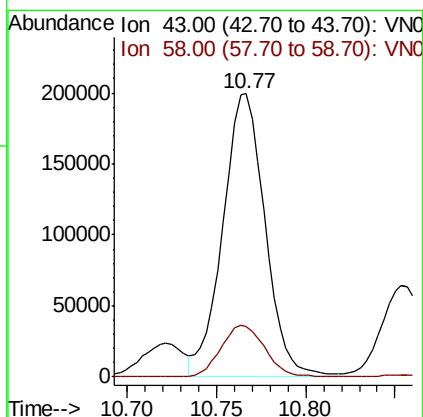
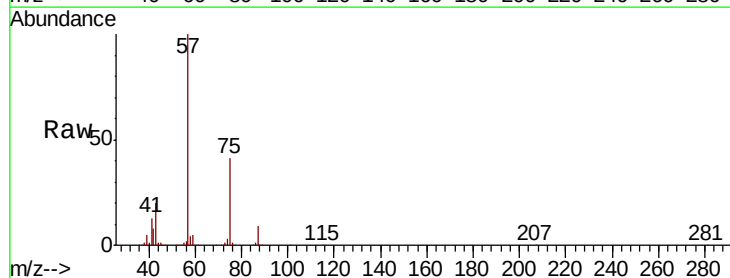
Acq: 29 Nov 2018 16:12

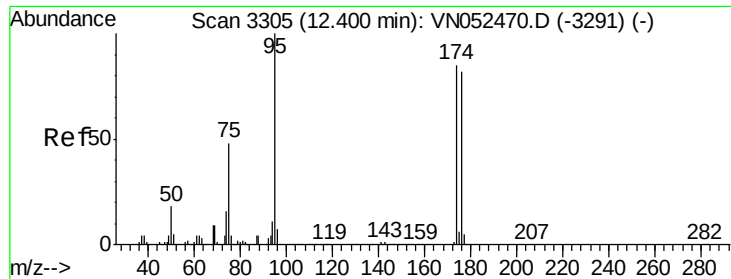
Tgt Ion: 43 Resp: 325984

Ion Ratio Lower Upper

43 100

58 19.2 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: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

PB115155ZHE#05

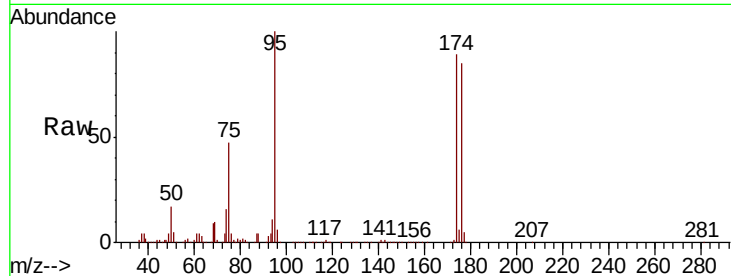
Tot Ion: 95 Resp: 744973

Ion Ratio Lower Upper

95 100

174 88.7 0.0 173.0

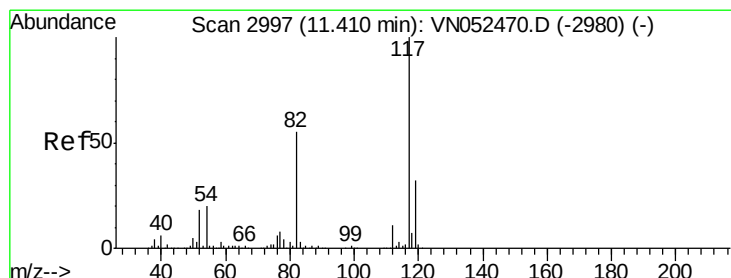
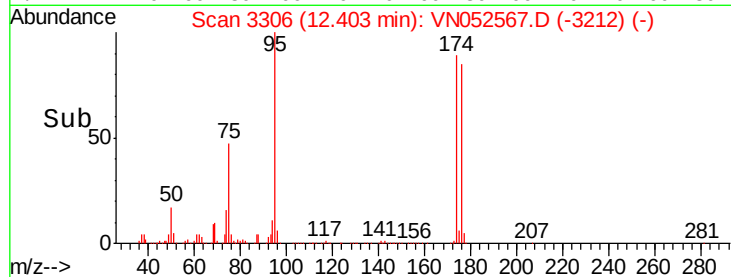
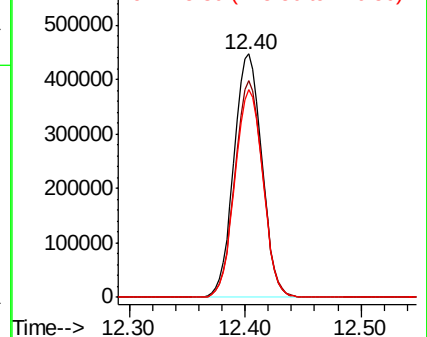
176 85.6 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VN052470.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052470.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052470.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

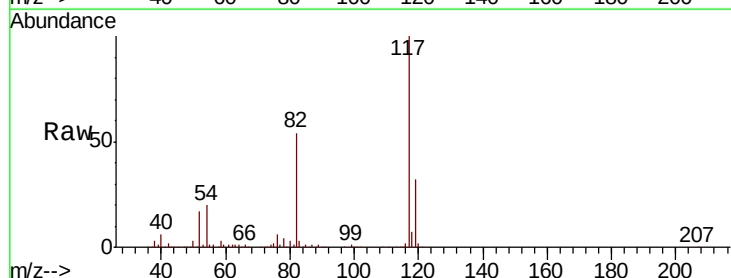
Tgt Ion: 117 Resp: 1719228

Ion Ratio Lower Upper

117 100

82 53.6 43.6 65.4

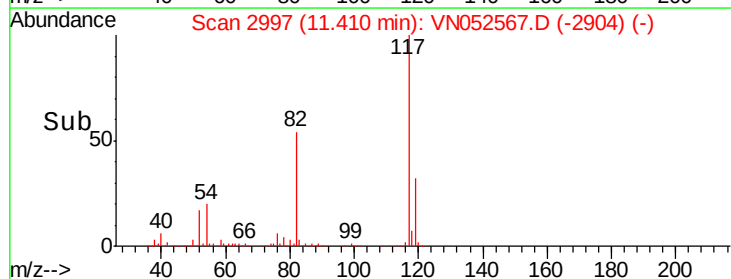
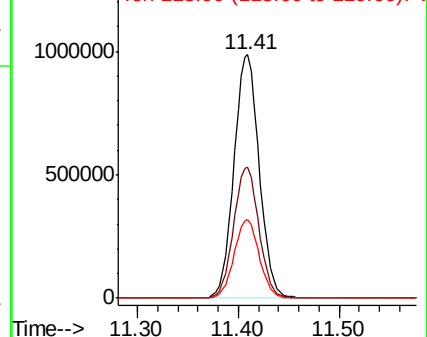
119 32.0 25.4 38.2

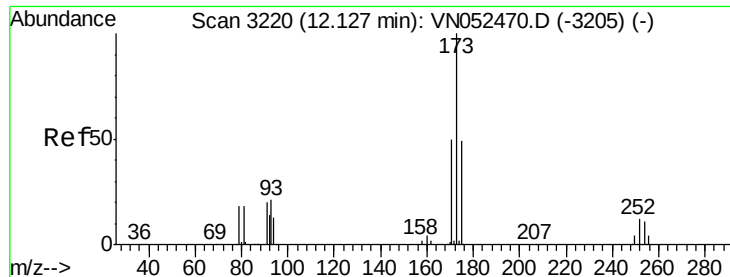


Abundance Ion 116.90 (116.60 to 117.60): VN052470.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052470.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052470.D (-2980) (-)





#71

Bromoform

Concen: 0.533 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

PB115155ZHE#05

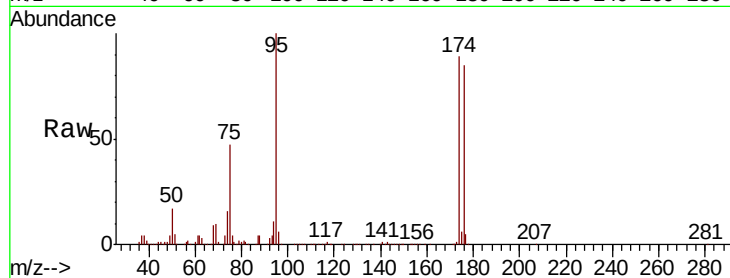
Tot Ion:173 Resp: 4352

Ion Ratio Lower Upper

173 100

175 924.6 24.4 73.2#

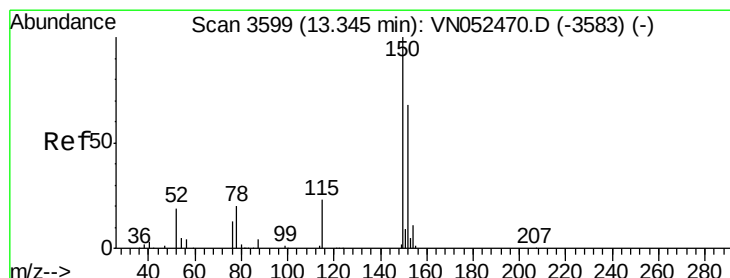
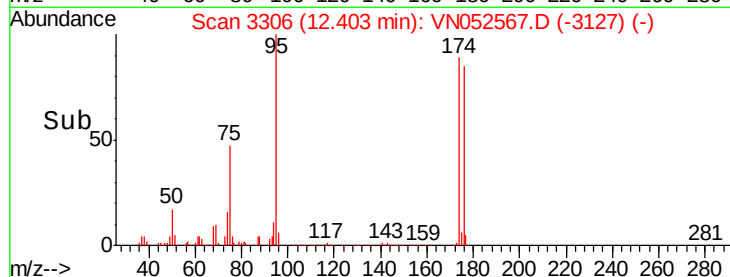
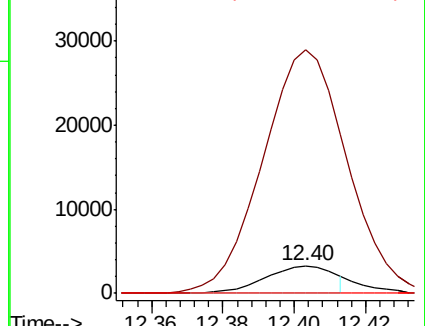
254 0.0 0.1 0.1#



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: VN052567.D

Acq: 29 Nov 2018 16:12

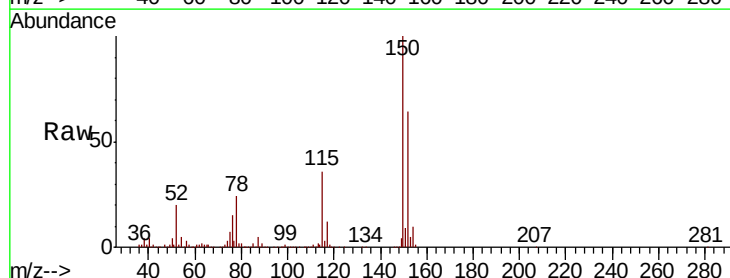
Tgt Ion:152 Resp: 633277

Ion Ratio Lower Upper

152 100

115 56.9 28.4 85.2

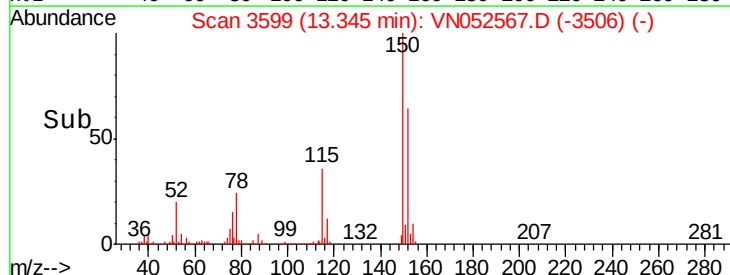
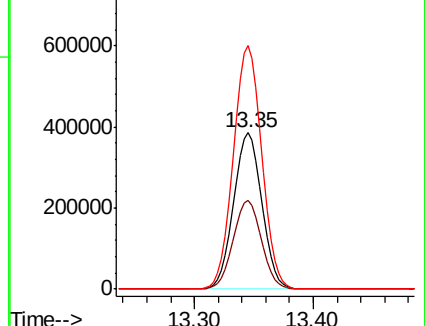
150 156.5 0.0 346.0

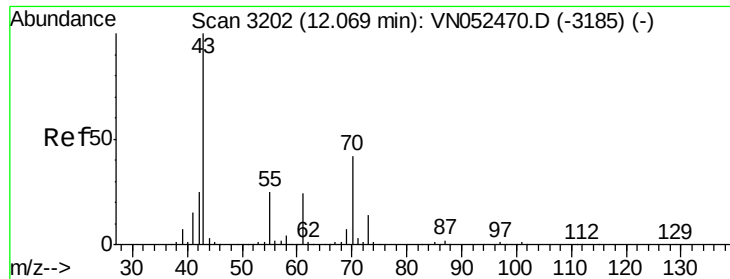


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

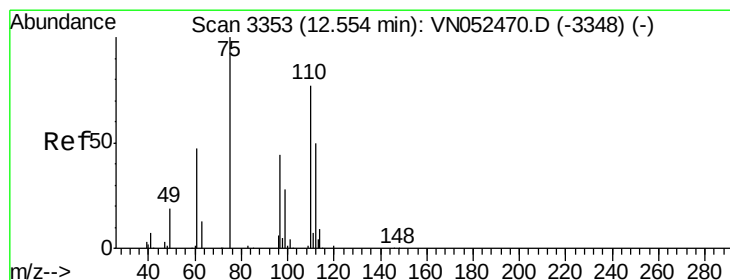
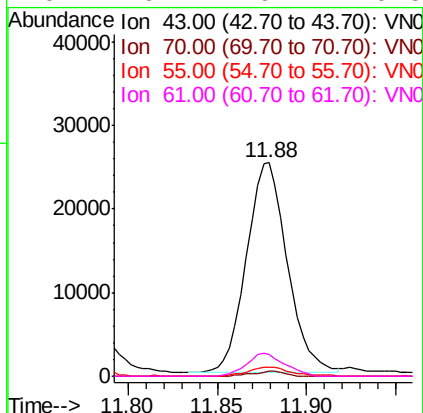
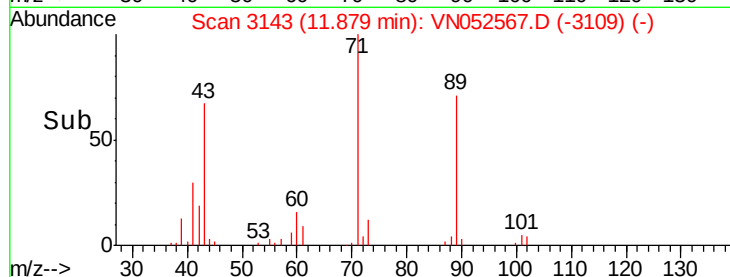
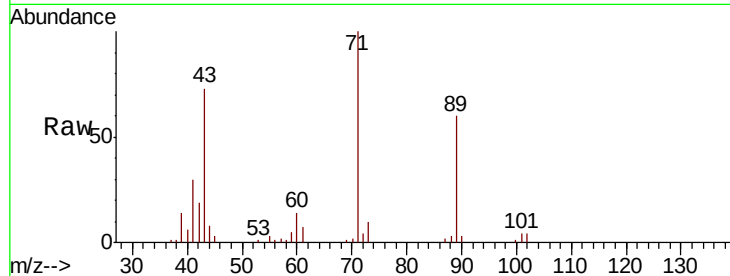




#74
N-amvl acetate
Concen: 3.186 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

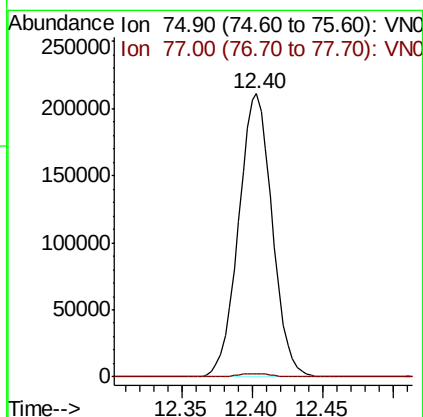
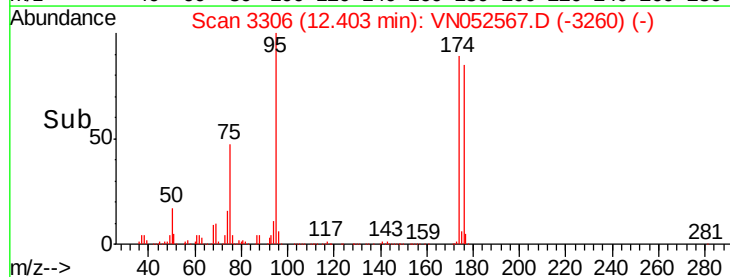
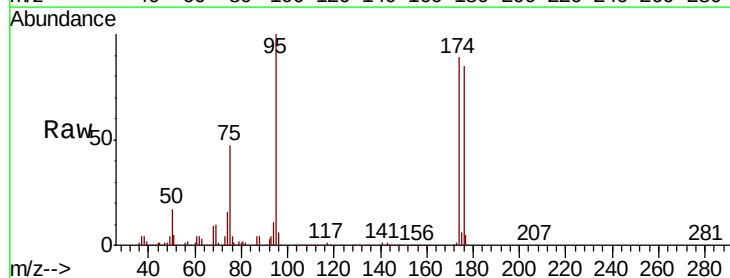
Instrument :
MSVOA_N
ClientSampleId :
PB115155ZHE#05

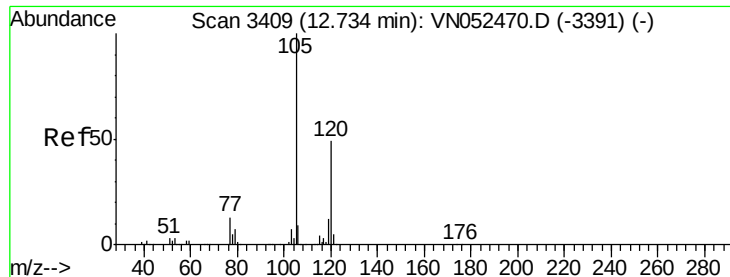
Tot Ion: 43 Resp: 39986
Ion Ratio Lower Upper
43 100
70 1.9 33.8 50.8#
55 4.5 20.0 30.0#
61 10.2 19.7 29.5#



#76
1,2,3-Trichloropropane
Concen: 36.001 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN052567.D
Acq: 29 Nov 2018 16:12

Tgt Ion: 75 Resp: 351567
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.642 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

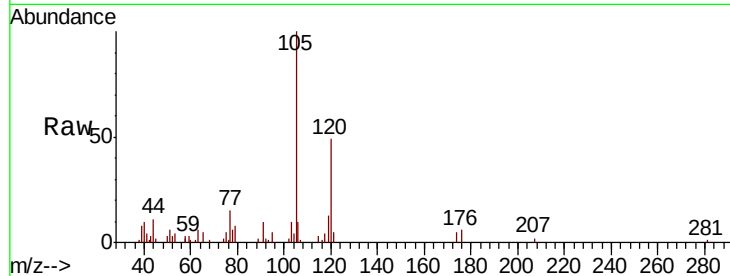
PB115155ZHE#05

Tot Ion:105 Resp: 25443

Ion Ratio Lower Upper

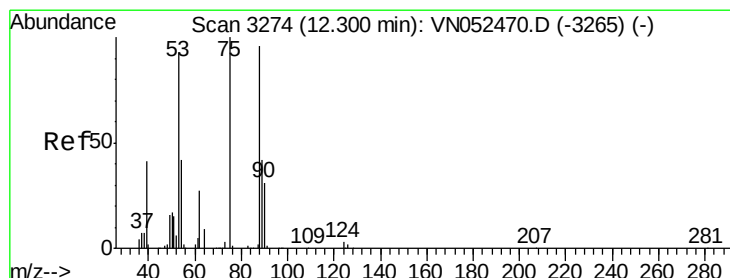
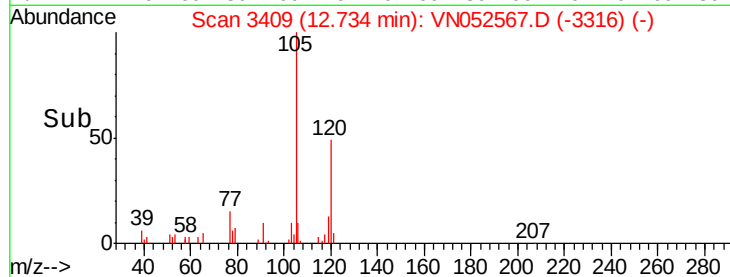
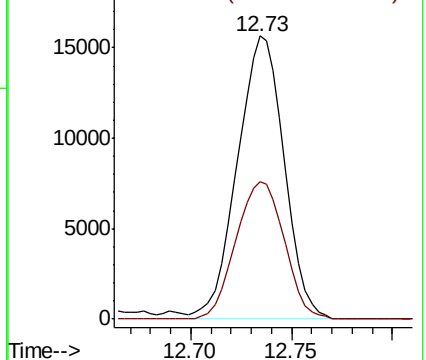
105 100

120 50.3 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 120.226 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052567.D

Acq: 29 Nov 2018 16:12

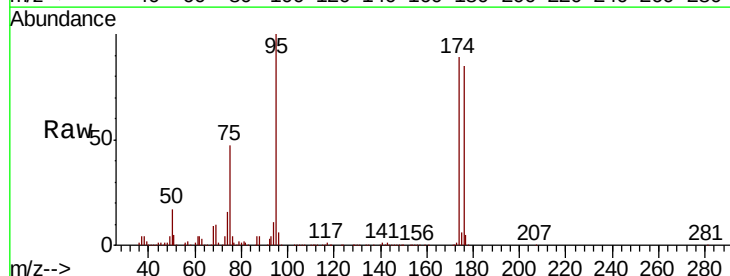
Tgt Ion: 75 Resp: 351567

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

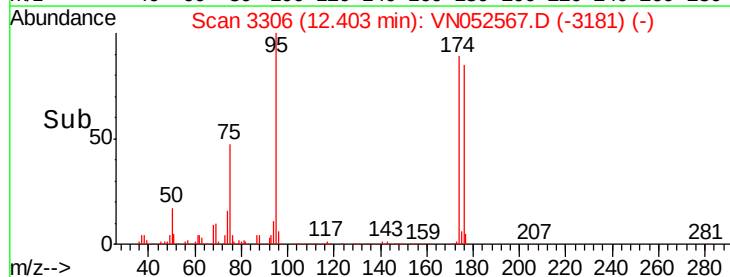
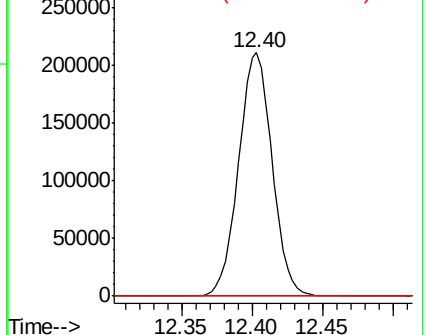
89 0.0 35.4 53.2#

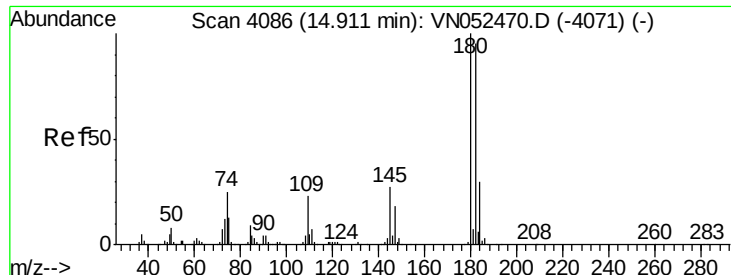


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

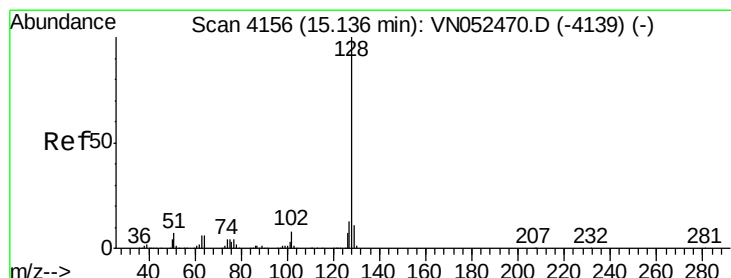
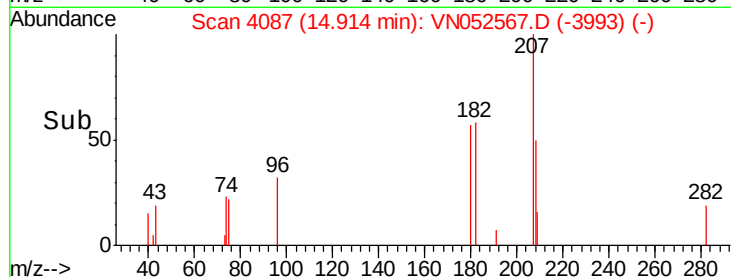
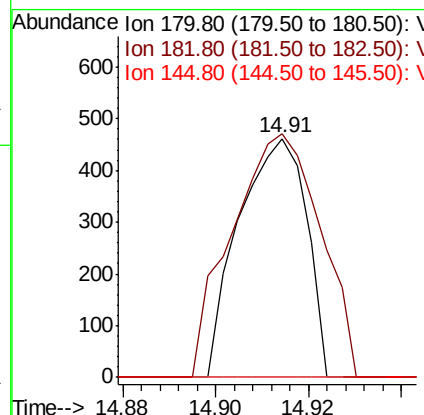
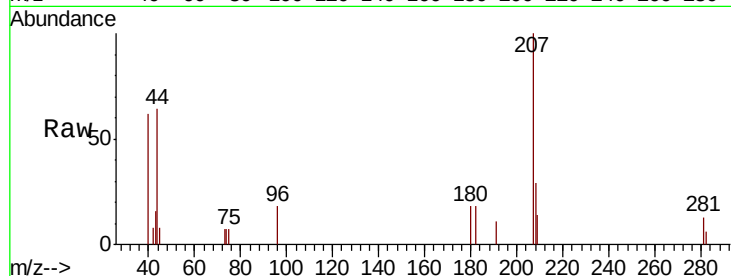




#93
 1,2,4-Trichlorobenzene
 Concen: 2.869 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

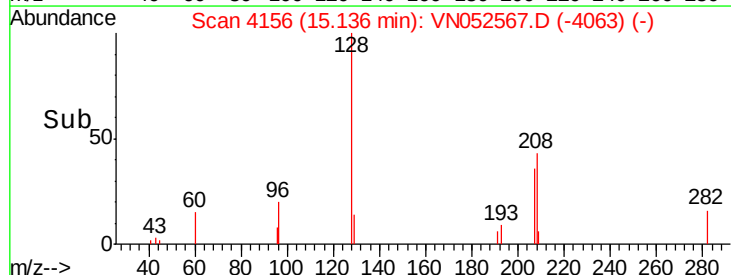
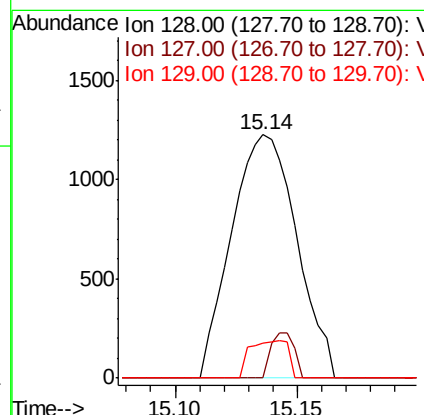
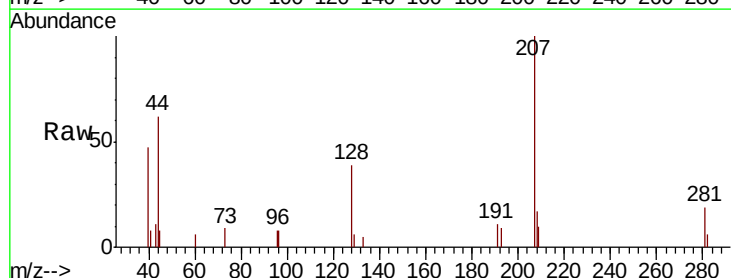
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115155ZHE#05

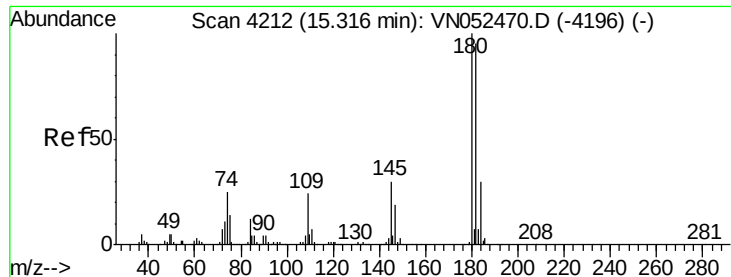
Tot Ion:180 Resp: 469
 Ion Ratio Lower Upper
 180 100
 182 133.0 47.8 143.4
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 3.517 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

Tgt Ion:128 Resp: 2272
 Ion Ratio Lower Upper
 128 100
 127 6.6 10.2 15.2#
 129 8.9 8.7 13.1

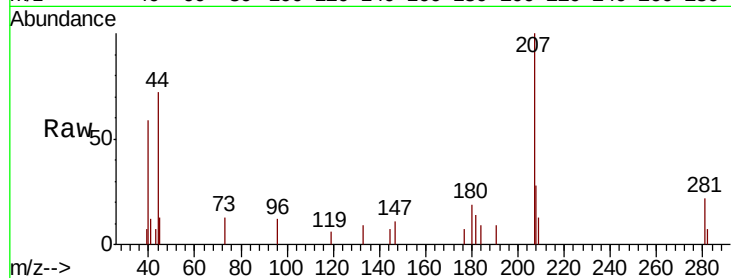




#96
 1,2,3-Trichlorobenzene
 Concen: 2.809 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN052567.D
 Acq: 29 Nov 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115155ZHE#05

Tot Ion	Ratio	Lower	Upper
180	100		
182	46.4	47.8	143.3#
145	14.8	15.2	45.5#



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

