

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121718\
 Data File : VN052933.D
 Acq On : 17 Dec 2018 17:51
 Operator : MD\SY
 Sample : PB115729ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115729ZHE#03

Quant Time: Dec 18 04:46:00 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	1327406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2063600	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1828415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	720459	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	672070	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
35) Dibromofluoromethane	7.59	113	466735	40.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.04%	
50) Toluene-d8	10.09	98	2509870	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
62) 4-Bromofluorobenzene	12.40	95	816237	48.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.46%	

Target Compounds

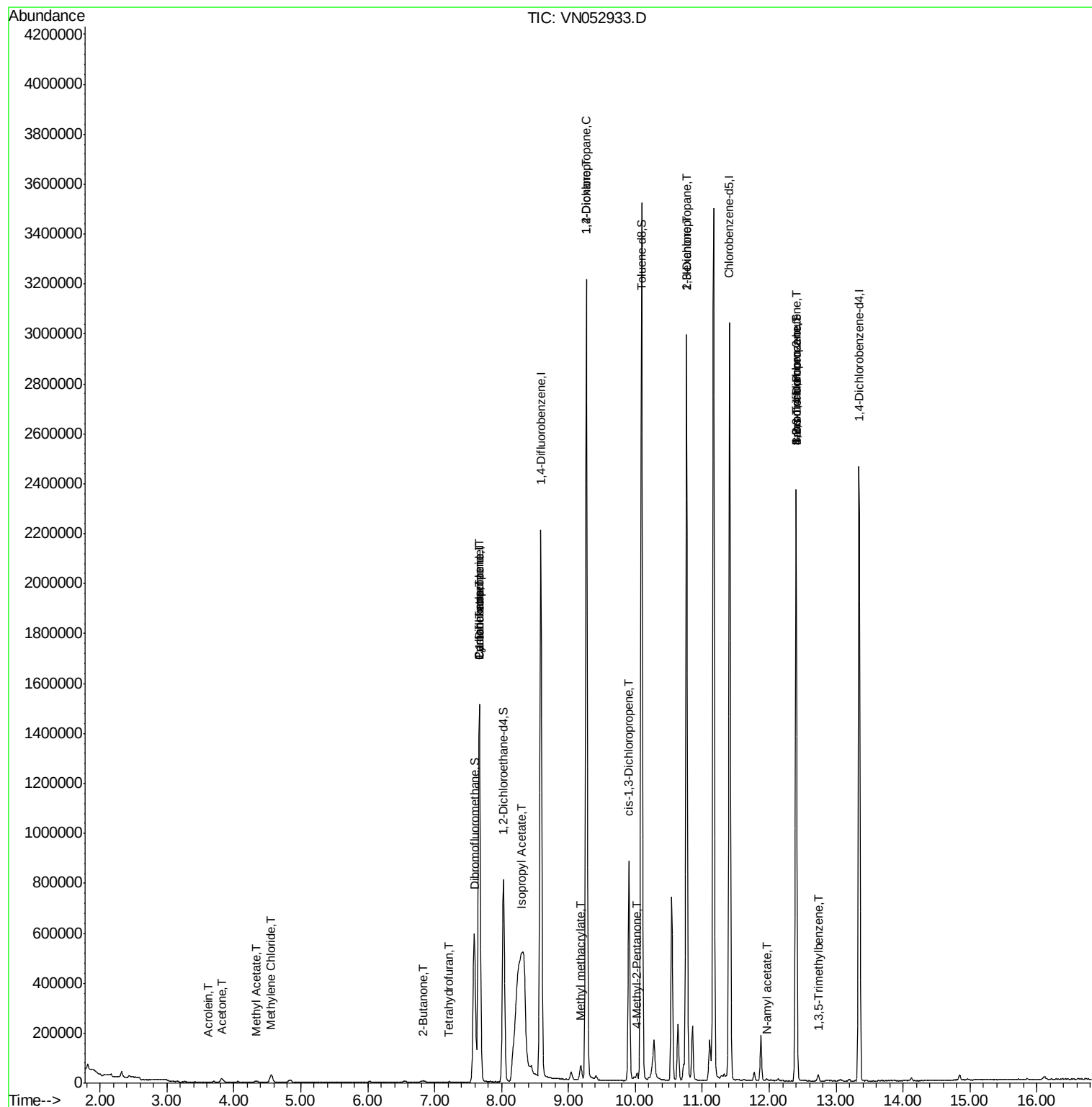
					Qvalue	
13) Acrolein	3.62	56	571	0.769	ug/l #	41
16) Acetone	3.82	43	23662	7.465	ug/l	98
18) Methyl Acetate	4.33	43	10096	0.868	ug/l	90
20) Methylene Chloride	4.55	84	22834	1.601	ug/l	98
25) 2-Butanone	6.84	43	4249	0.864	ug/l	99
29) Tetrahydrofuran	7.22	42	1321	0.393	ug/l #	65
31) Cyclohexane	7.67	56	22002	0.344	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	88198	4.641	ug/l #	48
38) Carbon Tetrachloride	7.67	117	114033	6.519	ug/l #	15
43) Isopropyl Acetate	8.29	43	1057816	45.195	ug/l #	53
45) 1,2-Dichloropropane	9.27	63	4103	0.275	ug/l #	44
48) Methyl methacrylate	9.18	41	19872	1.936	ug/l #	22
49) 1,4-Dioxane	9.27	88	283	2.429	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	25228	2.351	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	166649	7.736	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	30800	1.457	ug/l #	42
59) 2-Hexanone	10.76	43	431977	58.731	ug/l #	49
71) Bromoform	12.40	173	5040	0.562	ug/l #	1
74) N-amyl acetate	11.97	43	4710	0.319	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	384962	36.216	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	10360	0.239	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	384962	116.344	ug/l #	12

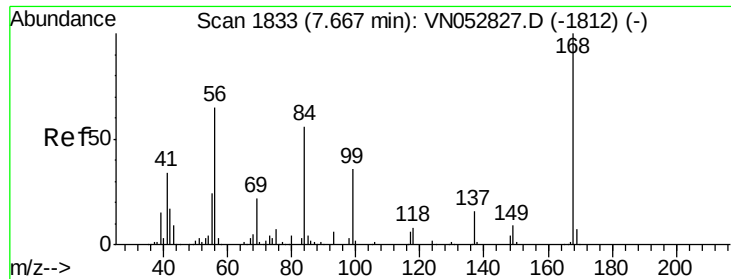
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

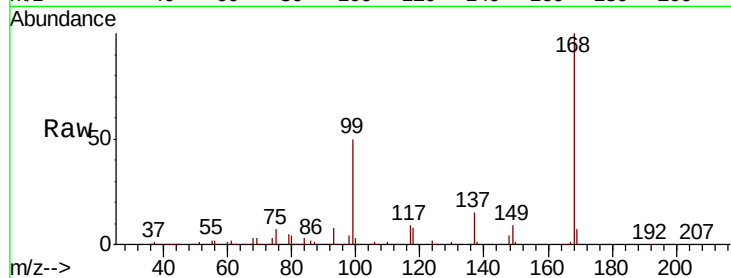
PB115729ZHE#03

Tot Ion:168 Resp: 1327406

Ion Ratio Lower Upper

168 100

99 50.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

600000

500000

400000

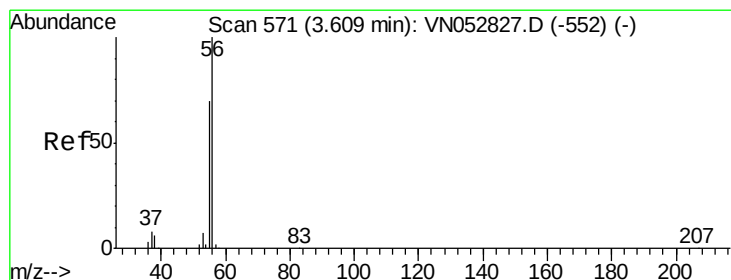
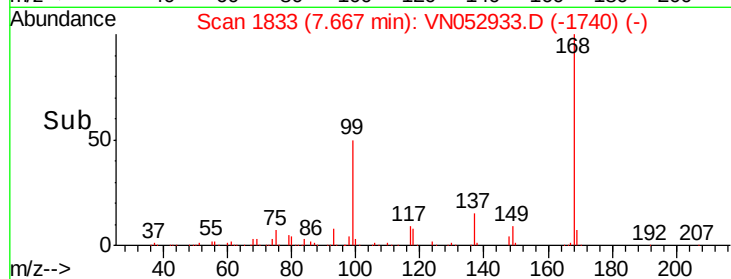
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.769 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052933.D

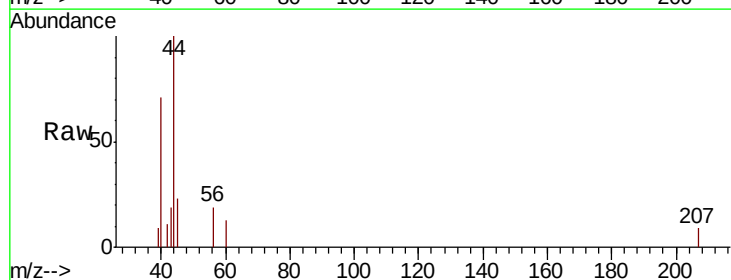
Acq: 17 Dec 2018 17:51

Tgt Ion: 56 Resp: 571

Ion Ratio Lower Upper

56 100

55 22.2 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052827.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052827.D (-552) (-)

3.62

400

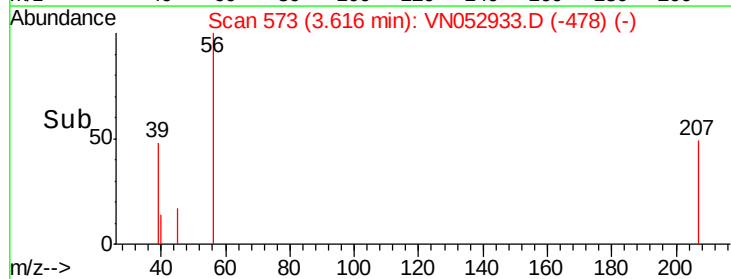
300

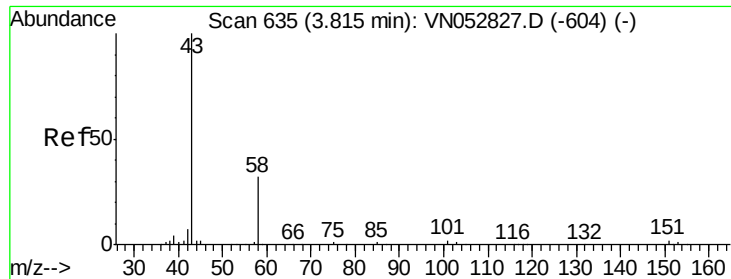
200

100

0

Time-->





#16

Acetone

Concen: 7.465 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

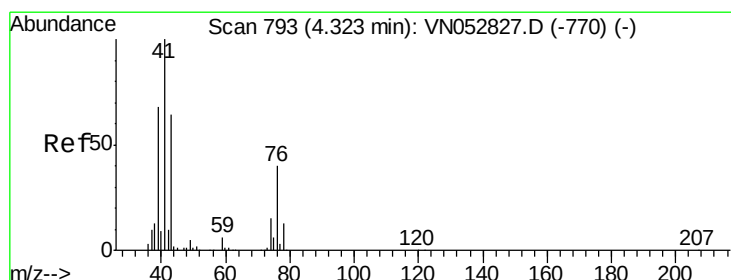
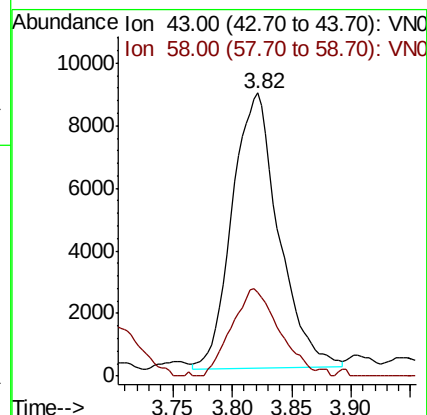
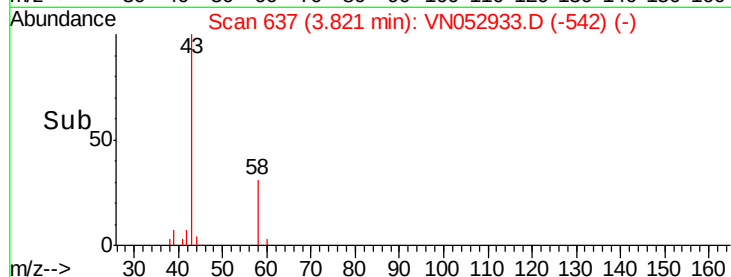
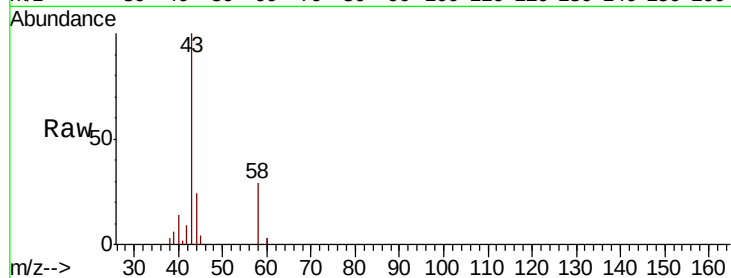
PB115729ZHE#03

Tot Ion: 43 Resp: 23662

Ion Ratio Lower Upper

43 100

58 30.7 25.4 38.0



#18

Methyl Acetate

Concen: 0.868 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052933.D

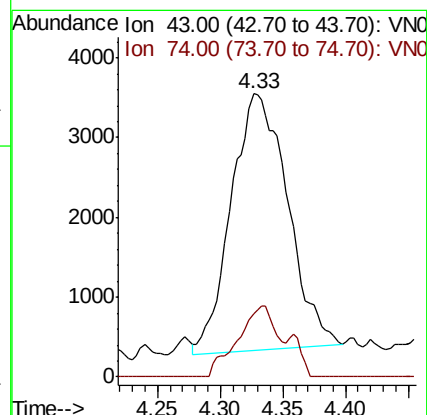
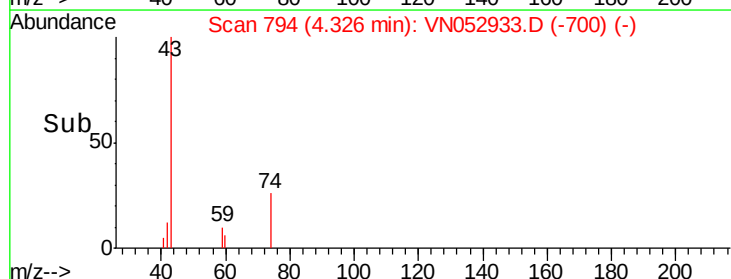
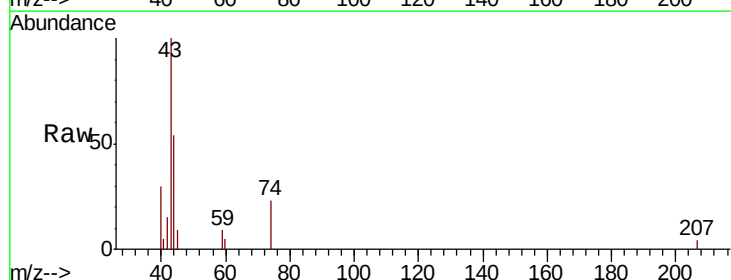
Acq: 17 Dec 2018 17:51

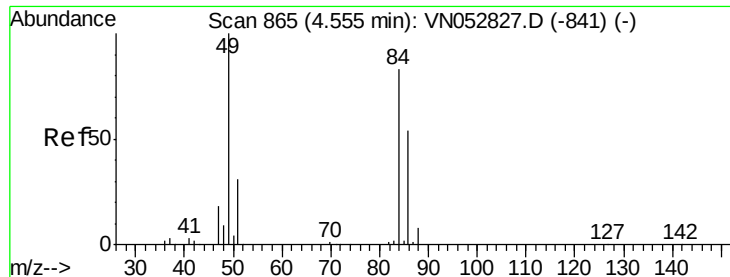
Tgt Ion: 43 Resp: 10096

Ion Ratio Lower Upper

43 100

74 19.3 19.2 28.8

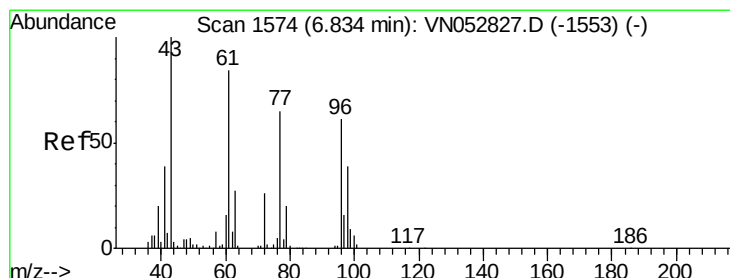
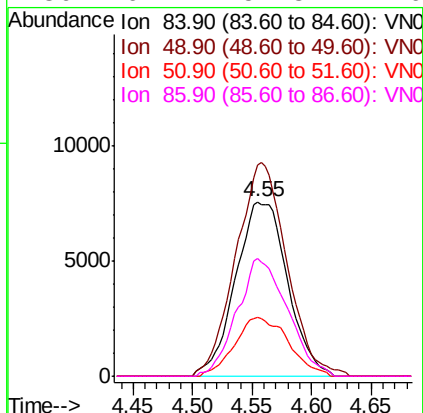
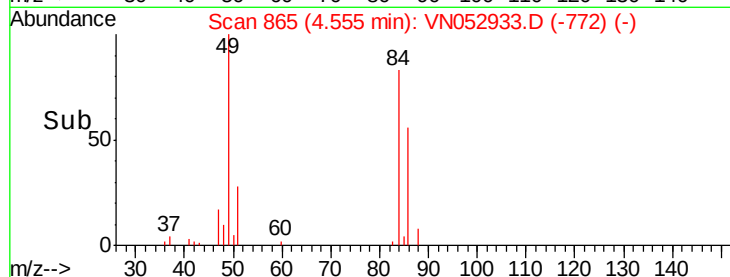
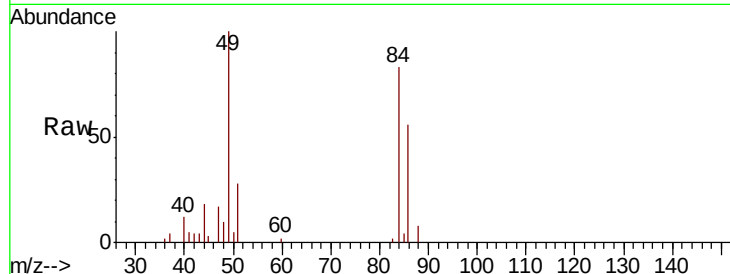




#20
Methylene Chloride
Concen: 1.601 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

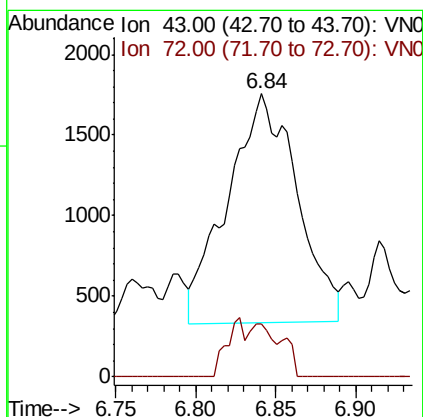
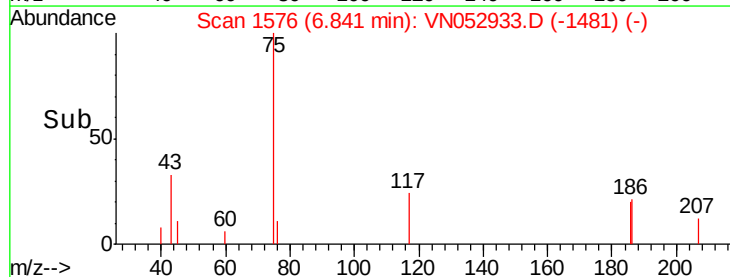
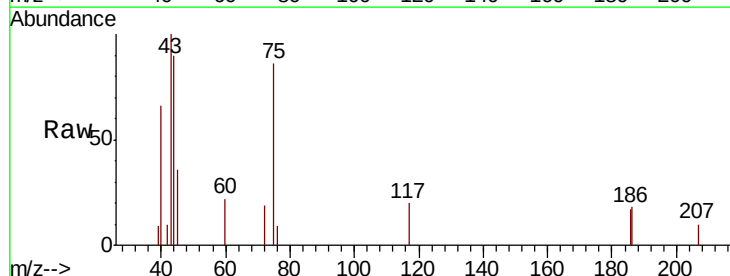
Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#03

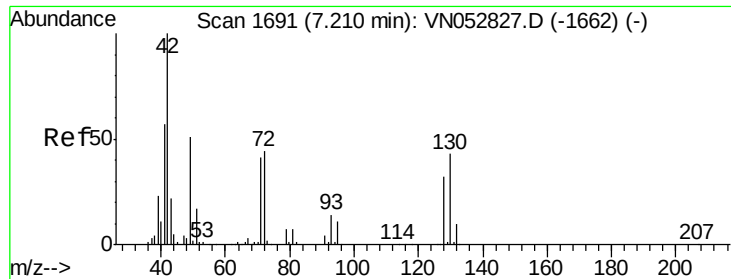
Tot Ion:	84	Resp:	22834
Ion	Ratio	Lower	Upper
84	100		
49	121.0	96.8	145.2
51	33.5	29.9	44.9
86	67.4	51.8	77.6



#25
2-Butanone
Concen: 0.864 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

Tgt Ion:	43	Resp:	4249
Ion	Ratio	Lower	Upper
43	100		
72	26.9	21.0	31.6

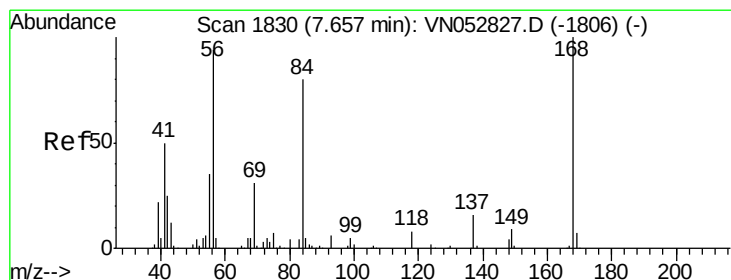
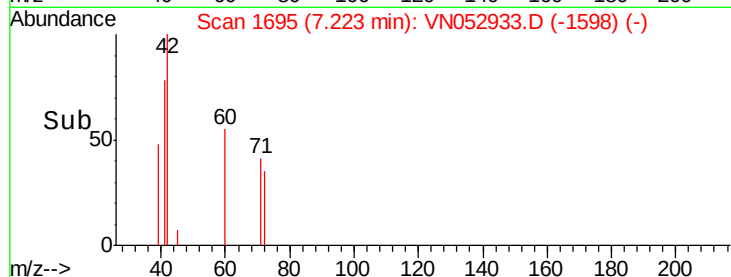
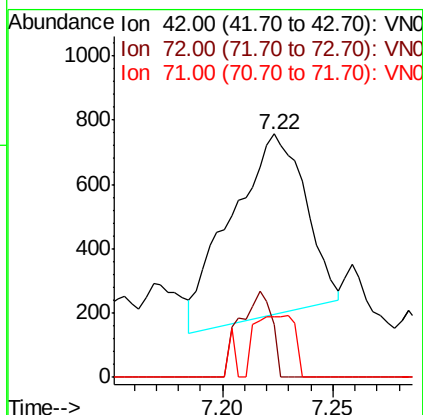
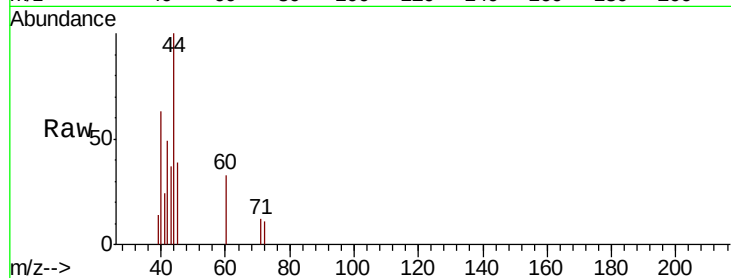




#29
Tetrahydrofuran
Concen: 0.393 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

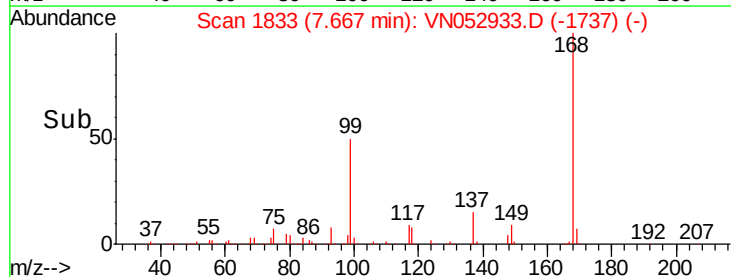
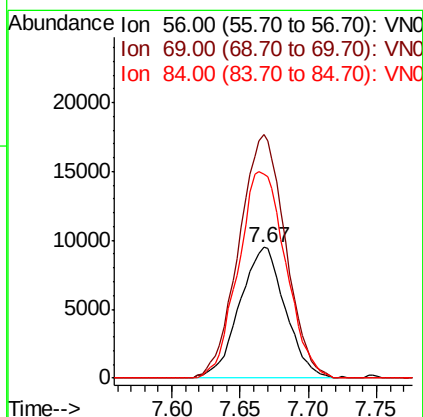
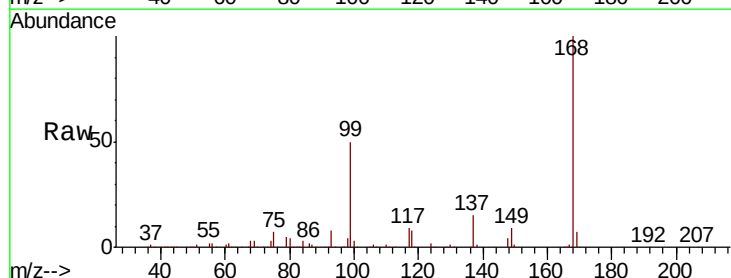
Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#03

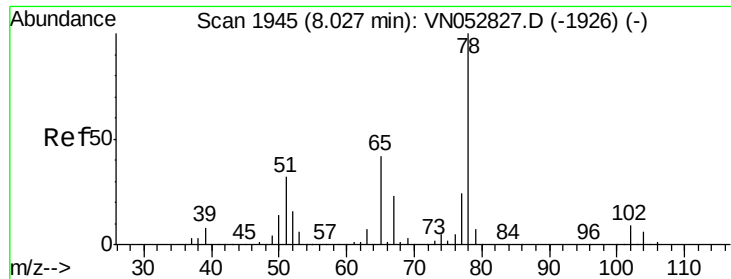
Tot Ion: 42 Resp: 1321
Ion Ratio Lower Upper
42 100
72 20.6 34.7 52.1#
71 18.5 32.3 48.5#



#31
Cyclohexane
Concen: 0.344 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

Tgt Ion: 56 Resp: 22002
Ion Ratio Lower Upper
56 100
69 186.2 26.6 39.8#
84 156.4 68.4 102.6#

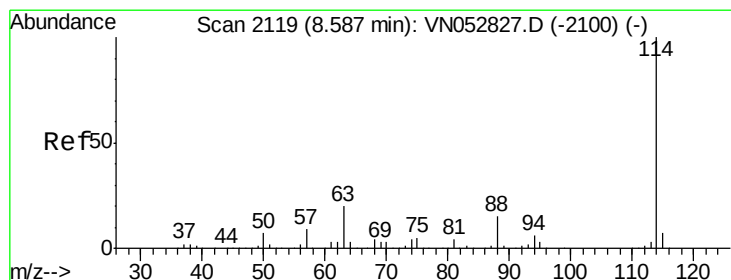
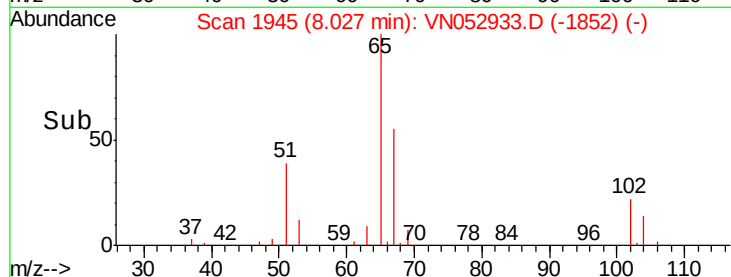
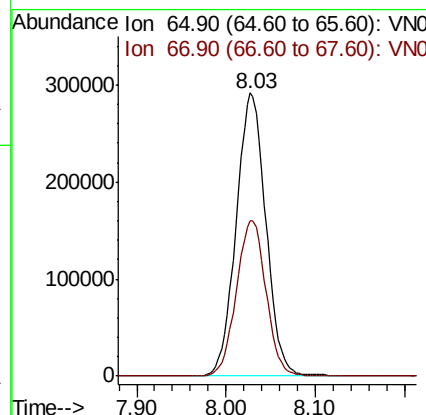
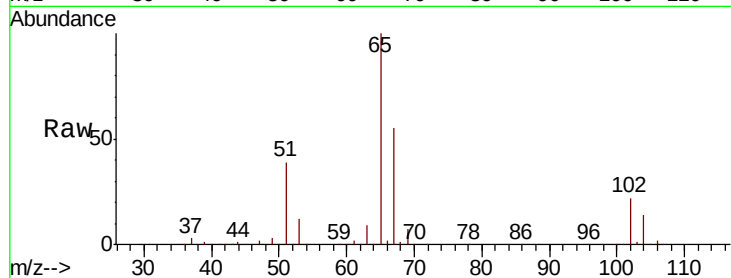




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052933.D
 Acq: 17 Dec 2018 17:51

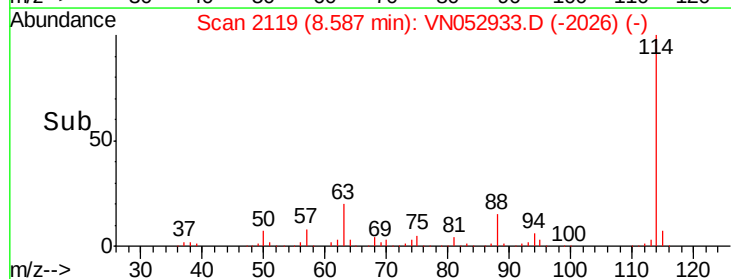
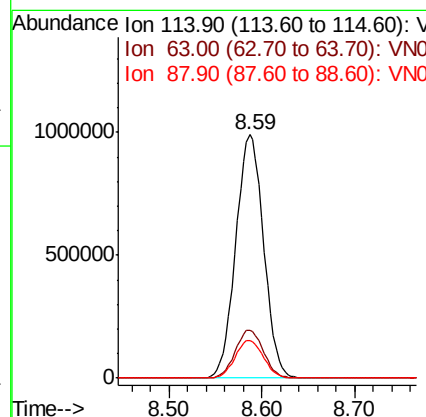
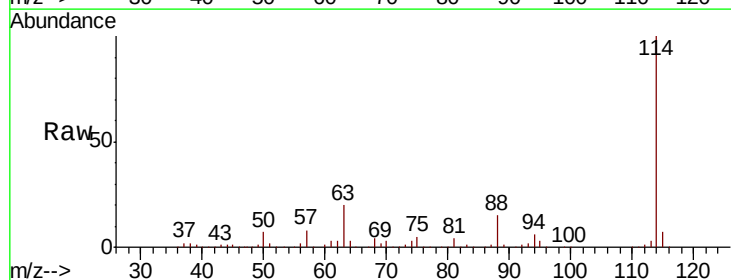
Instrument :
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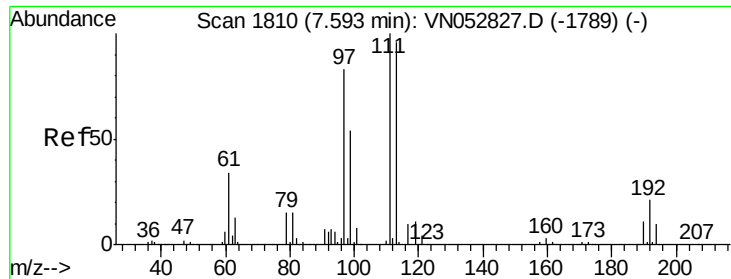
Tot Ion: 65 Resp: 672070
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052933.D
 Acq: 17 Dec 2018 17:51

Tgt Ion: 114 Resp: 2063600
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.4 0.0 31.0

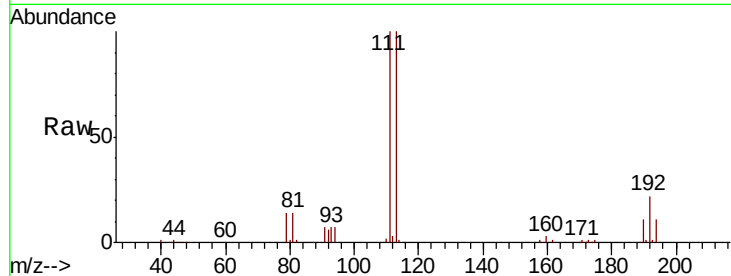




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#03

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	83.0	124.4
192	22.1	17.5	26.3

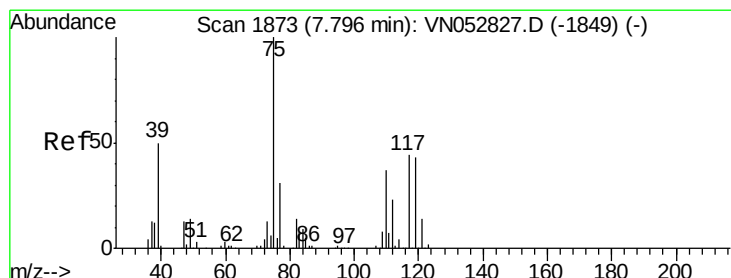
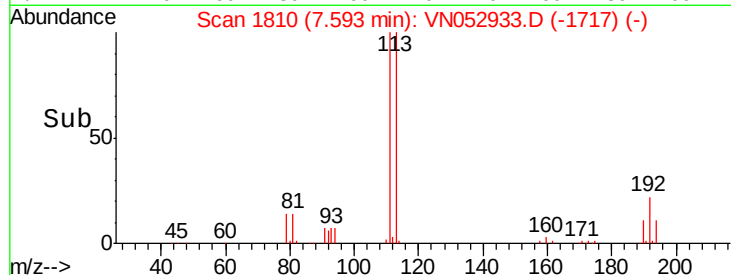
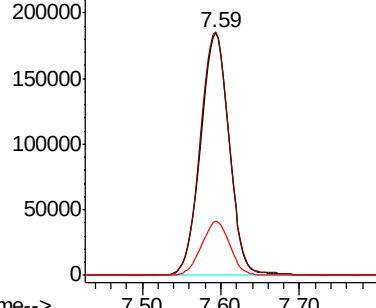


Abundance

Ion 112.80 (112.50 to 113.50): V

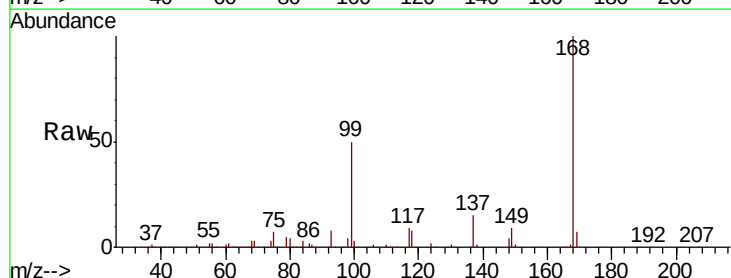
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 4.641 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.2	54.6#
77	0.0	24.9	37.3#

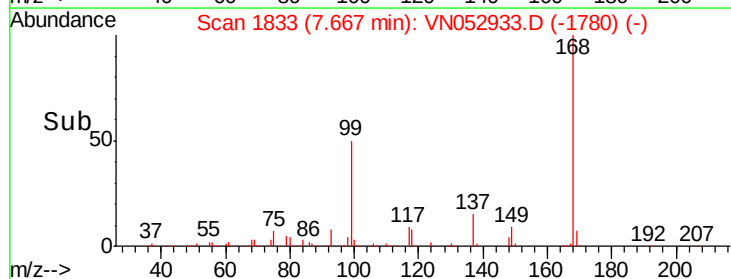
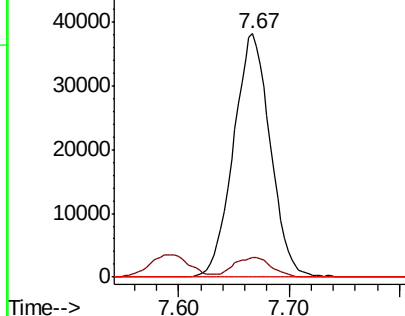


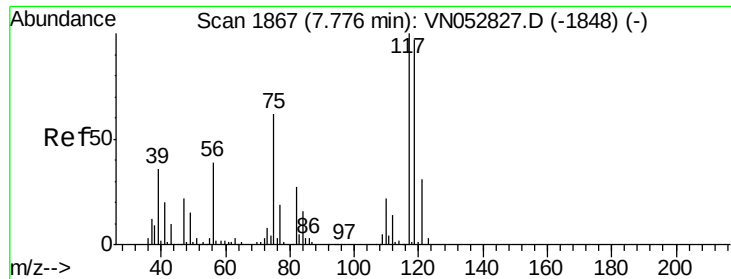
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

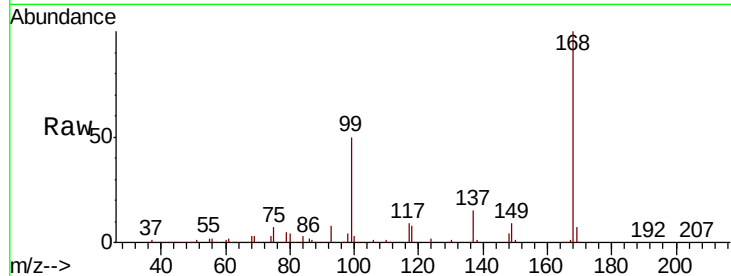




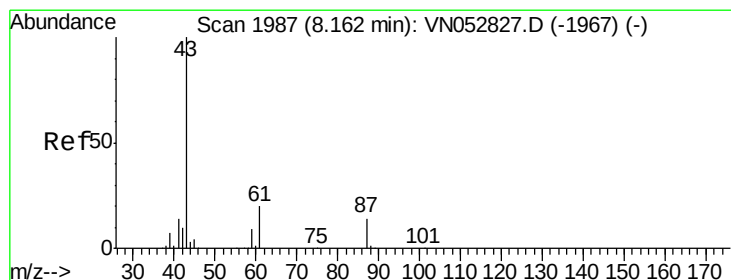
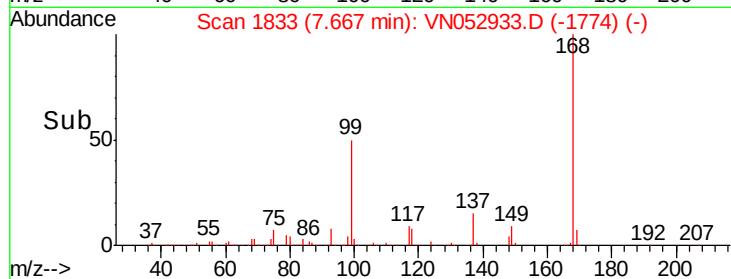
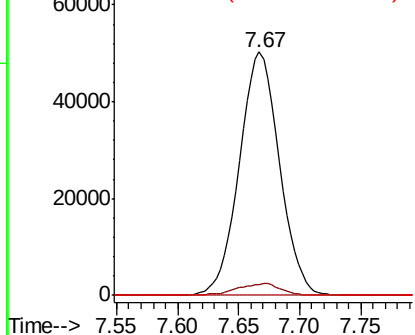
#38
Carbon Tetrachloride
Concen: 6.519 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#03

Tot Ion:117 Resp: 114033
Ion Ratio Lower Upper
117 100
119 4.3 77.1 115.7#
121 0.0 24.9 37.3#

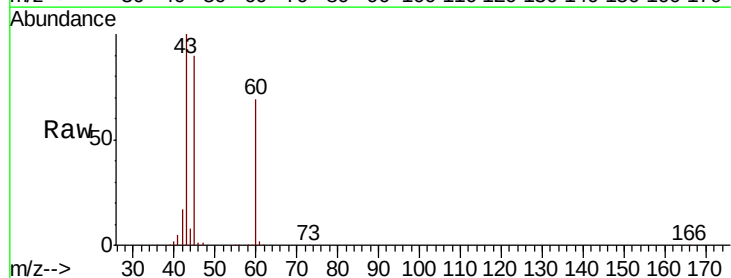


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

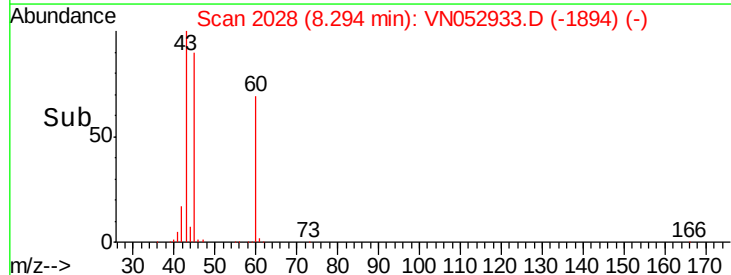
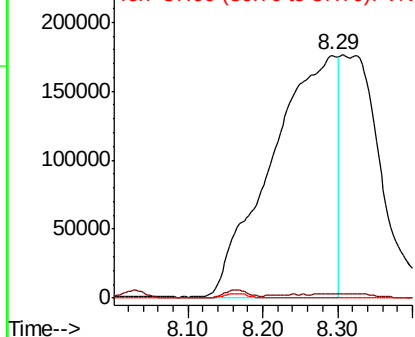


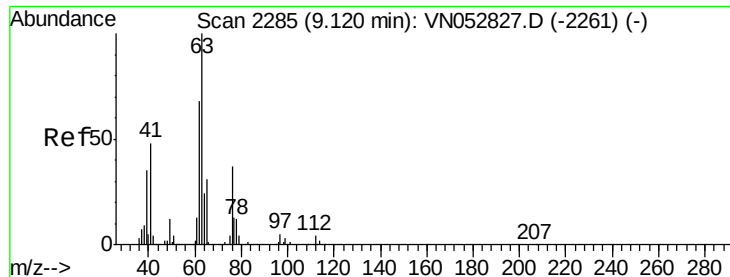
#43
Isopropyl Acetate
Concen: 45.195 ug/l
RT: 8.29 min Scan# 2028
Delta R.T. 0.13 min
Lab File: VN052933.D
Acq: 17 Dec 2018 17:51

Tgt Ion: 43 Resp: 1057816
Ion Ratio Lower Upper
43 100
61 0.0 22.9 34.3#
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.275 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

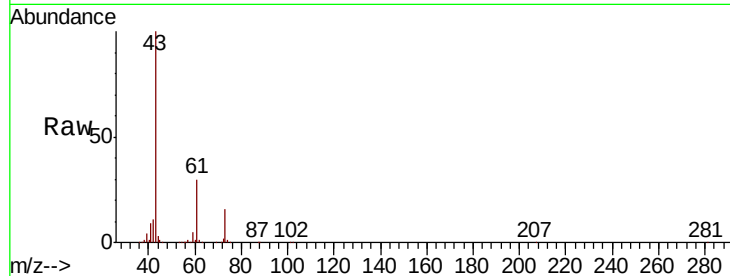
PB115729ZHE#03

Tot Ion: 63 Resp: 4103

Ion Ratio Lower Upper

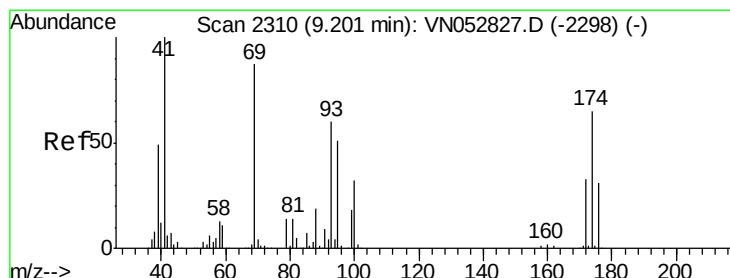
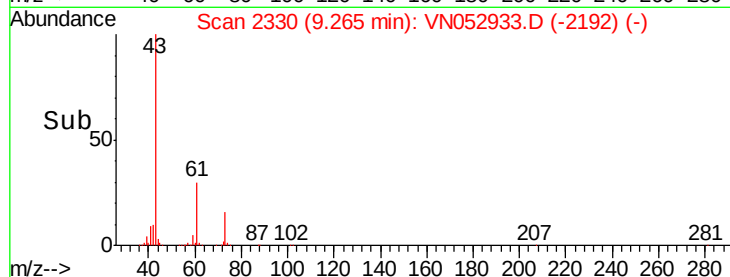
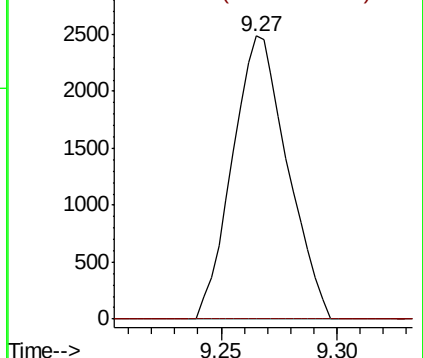
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.936 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

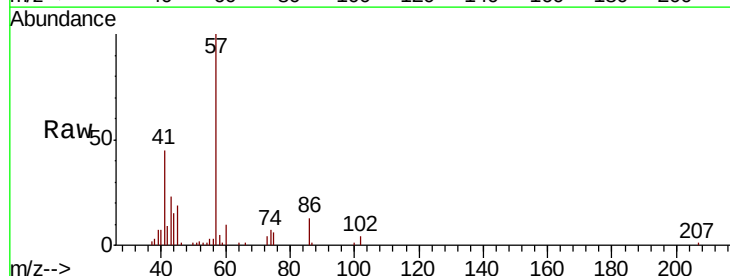
Tgt Ion: 41 Resp: 19872

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

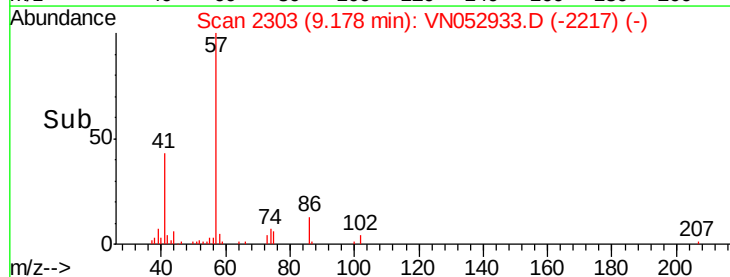
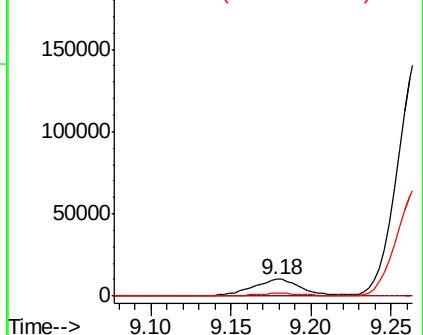
39 19.7 41.9 62.9#

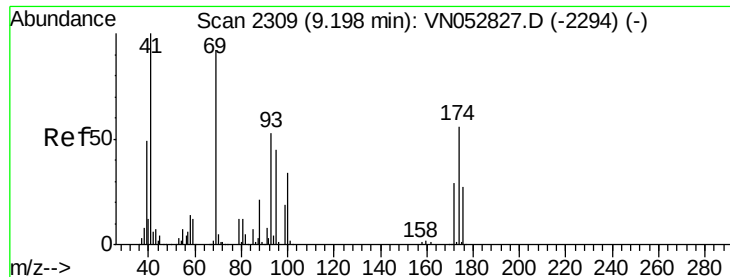


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 2.429 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#03

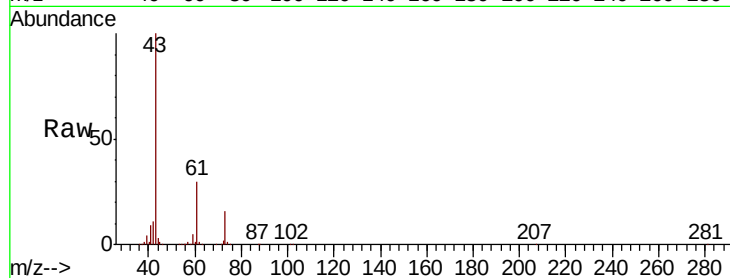
Tot Ion: 88 Resp: 283

Ion Ratio Lower Upper

88 100

43 1107878.4 26.6 40.0#

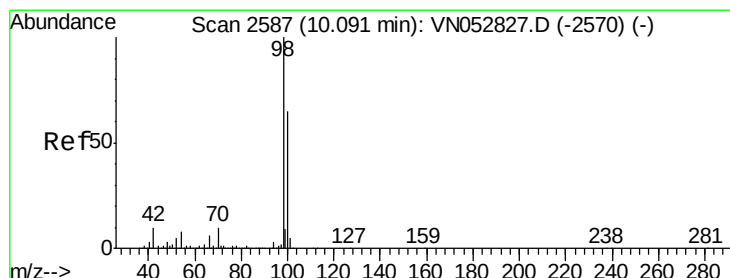
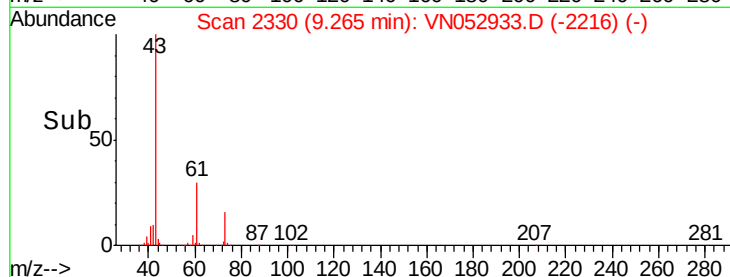
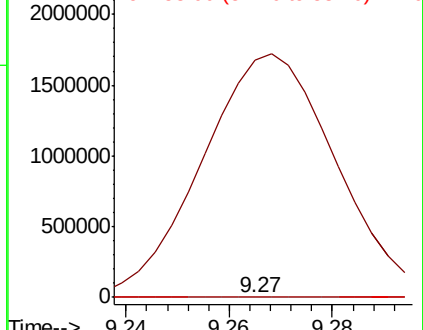
58 4536.4 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 2.429 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052933.D

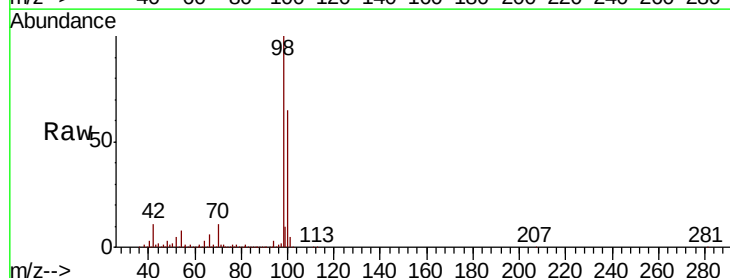
Acq: 17 Dec 2018 17:51

Tgt Ion: 98 Resp: 2509870

Ion Ratio Lower Upper

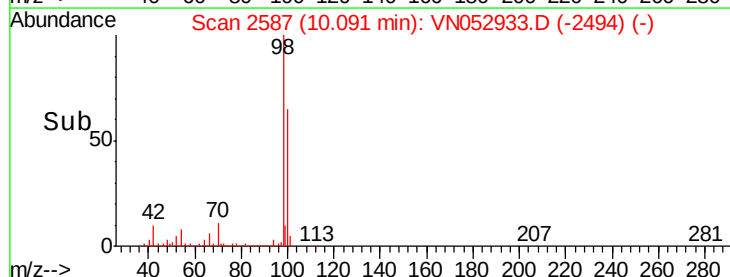
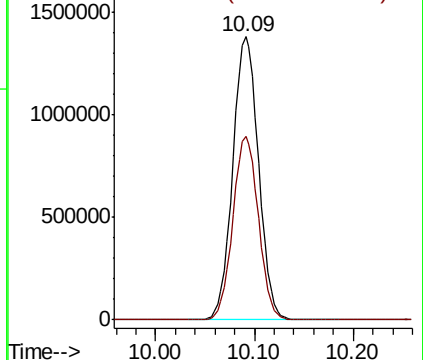
98 100

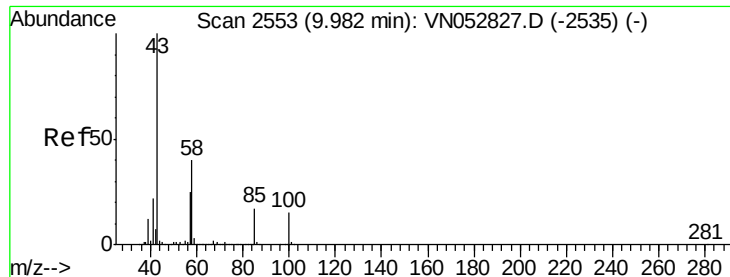
100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.351 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

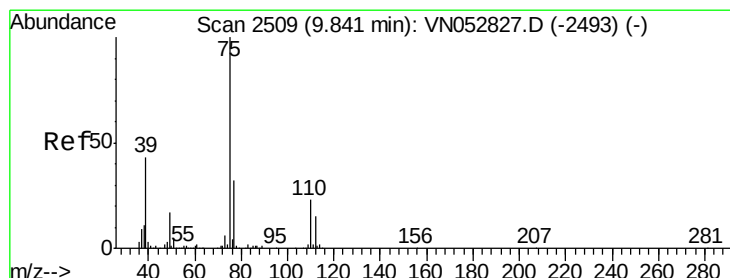
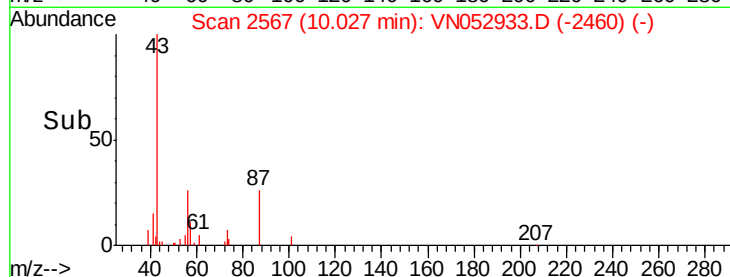
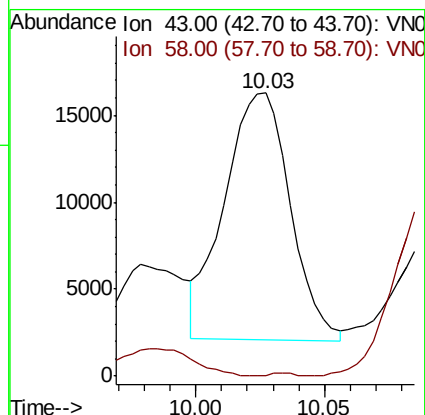
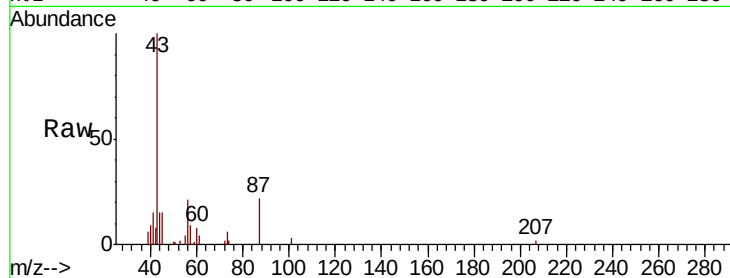
PB115729ZHE#03

Tot Ion: 43 Resp: 25228

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 7.736 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

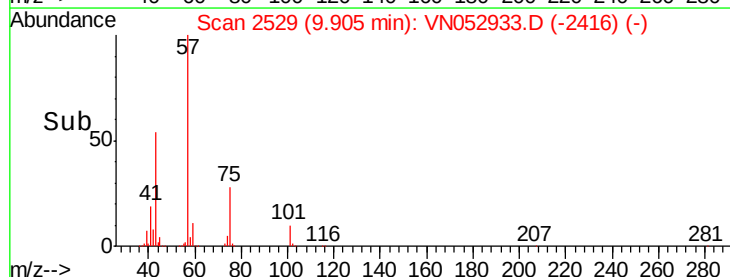
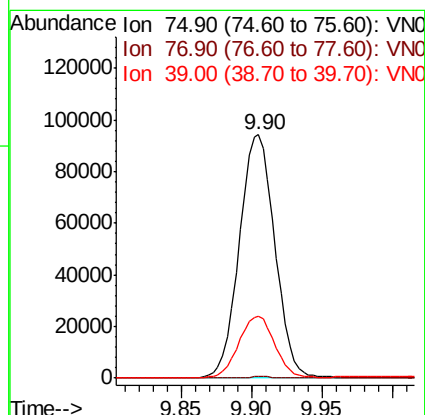
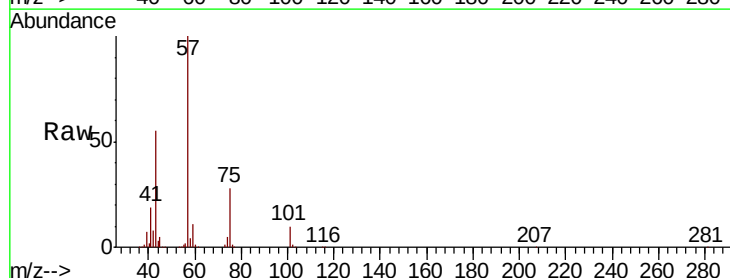
Tgt Ion: 75 Resp: 166649

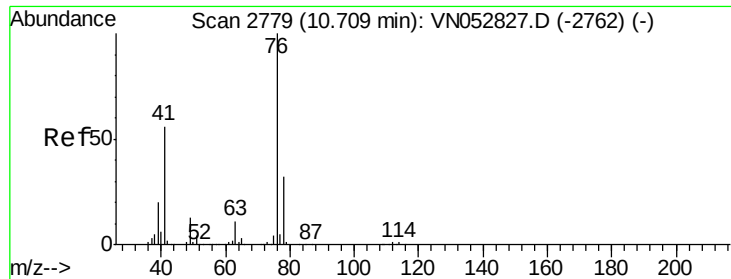
Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

39 25.5 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 1.457 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

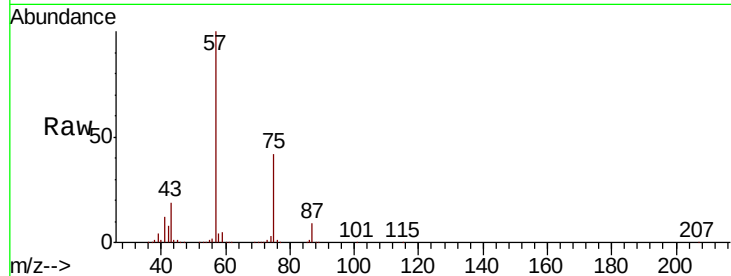
PB115729ZHE#03

Tot Ion: 76 Resp: 30800

Ion Ratio Lower Upper

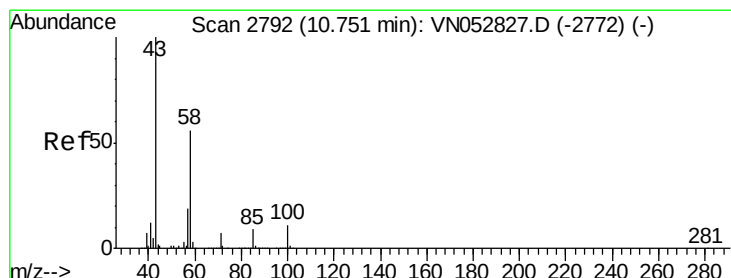
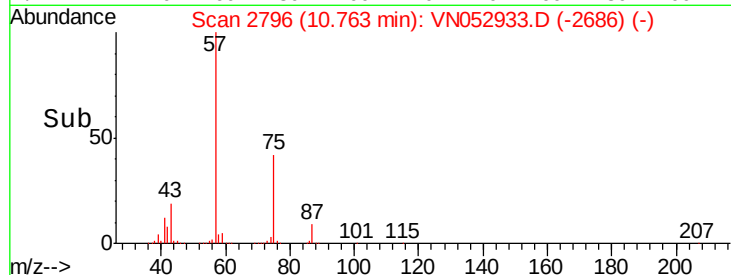
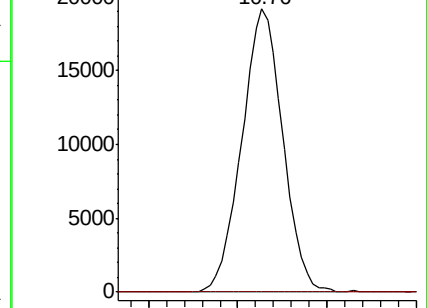
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 58.731 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052933.D

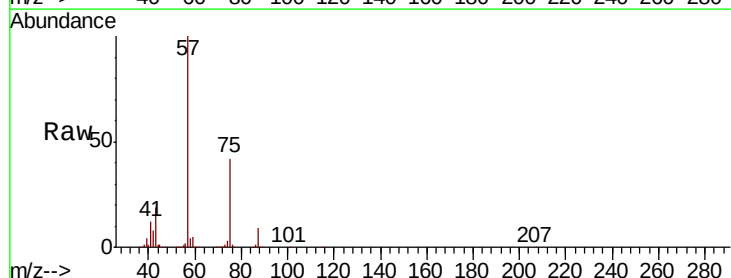
Acq: 17 Dec 2018 17:51

Tgt Ion: 43 Resp: 431977

Ion Ratio Lower Upper

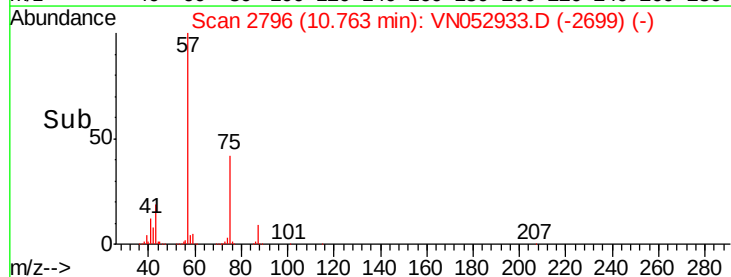
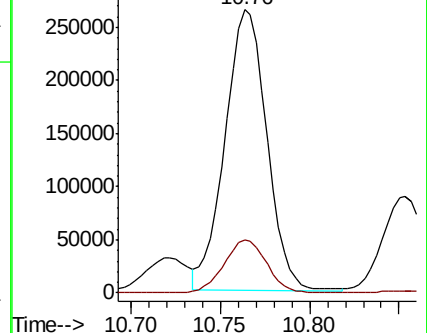
43 100

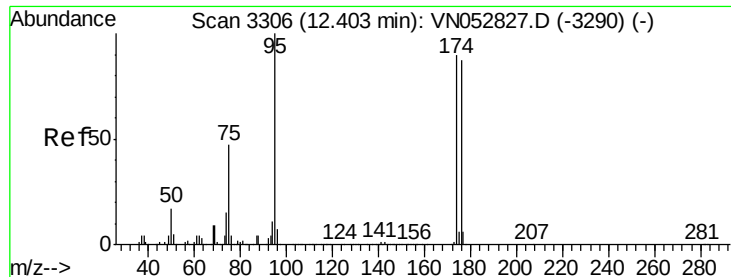
58 19.0 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#03

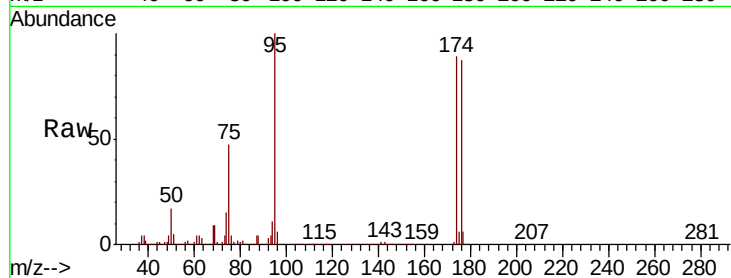
Tot Ion: 95 Resp: 816237

Ion Ratio Lower Upper

95 100

174 88.4 0.0 178.8

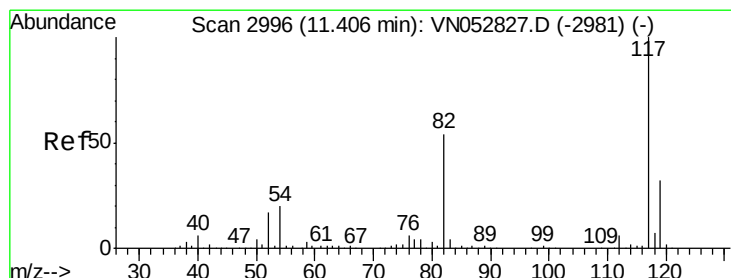
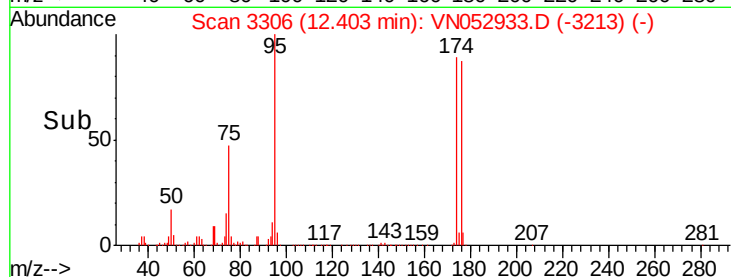
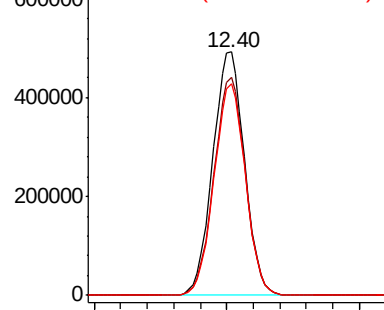
176 86.0 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052933.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052933.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052933.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

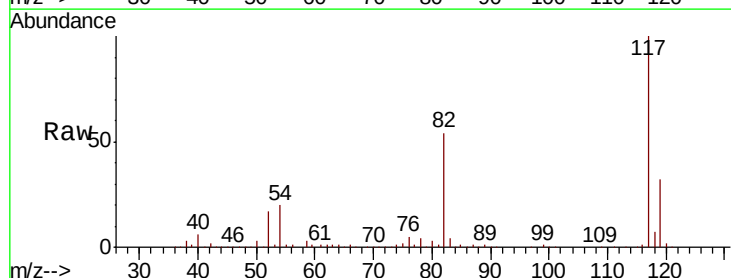
Tgt Ion: 117 Resp: 1828415

Ion Ratio Lower Upper

117 100

82 54.1 42.8 64.2

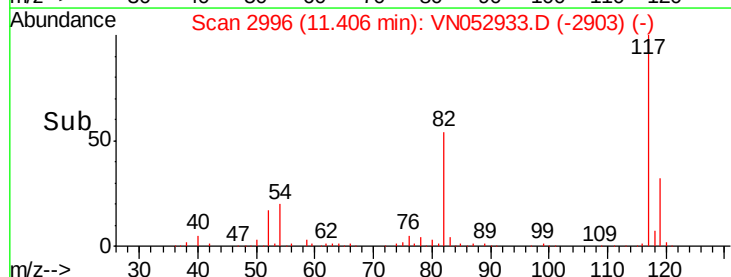
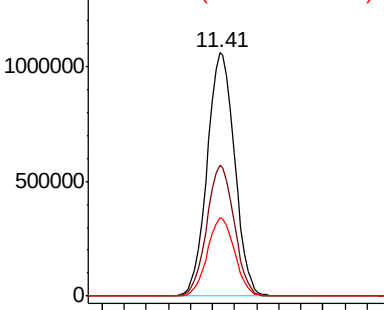
119 32.1 25.5 38.3

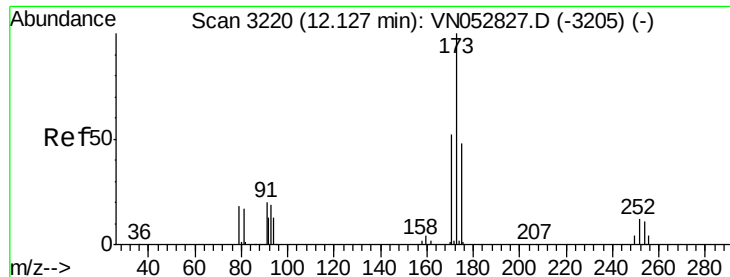


Abundance Ion 116.90 (116.60 to 117.60): VN052933.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052933.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052933.D (-2903) (-)





#71

Bromoform

Concen: 0.562 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#03

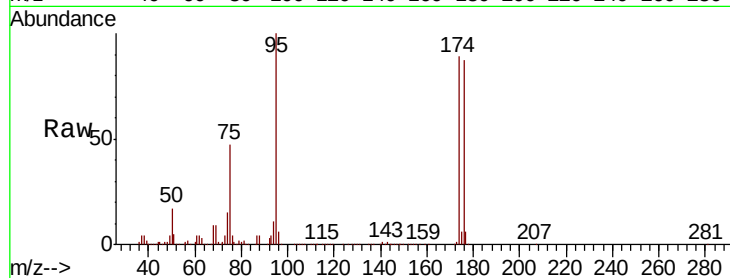
Tot Ion:173 Resp: 5040

Ion Ratio Lower Upper

173 100

175 897.0 24.3 72.9#

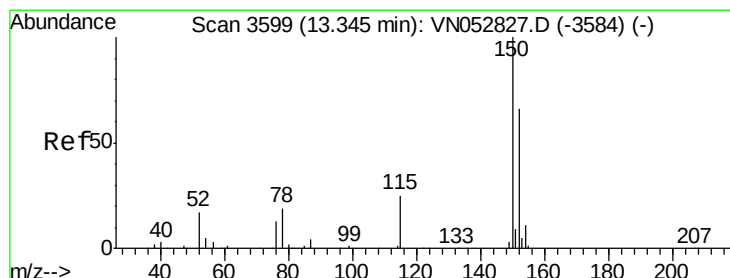
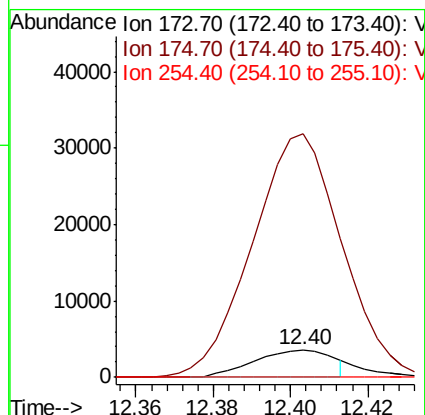
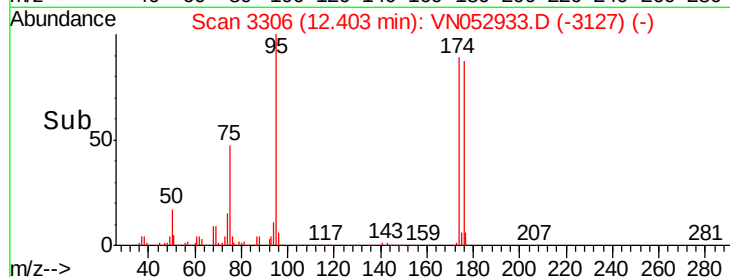
254 0.0 0.1 0.1#



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: VN052933.D

Acq: 17 Dec 2018 17:51

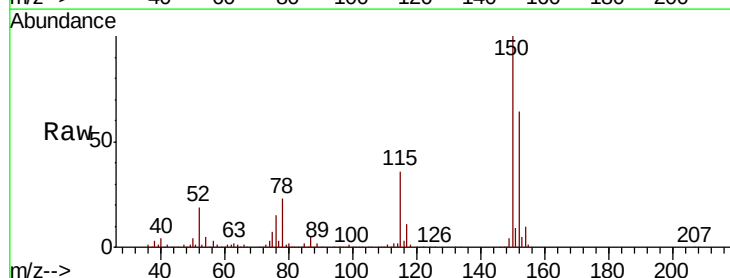
Tgt Ion:152 Resp: 720459

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

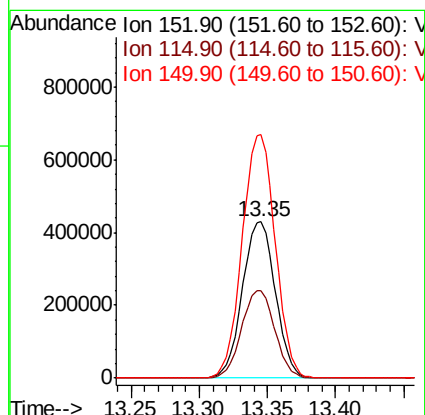
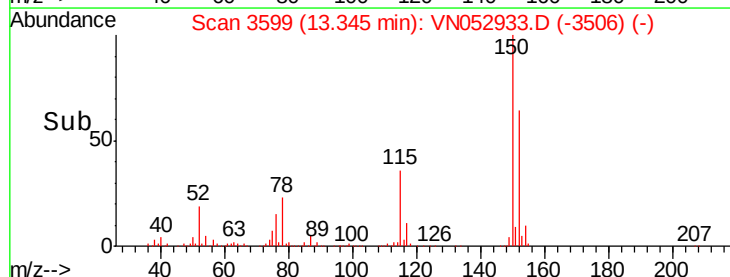
150 156.0 0.0 347.8

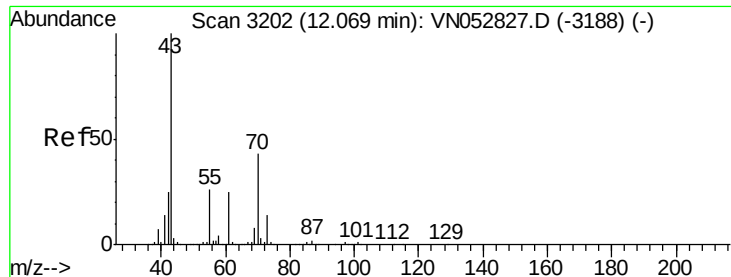


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.319 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. -0.10 min

Lab File: VN052933.D

Acq: 17 Dec 2018 17:51

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#03

Tot Ion: 43 Resp: 4710

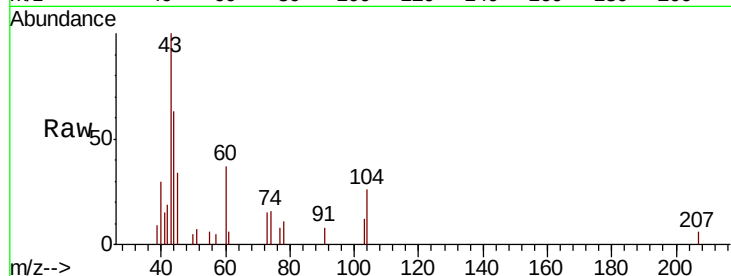
Ion Ratio Lower Upper

43 100

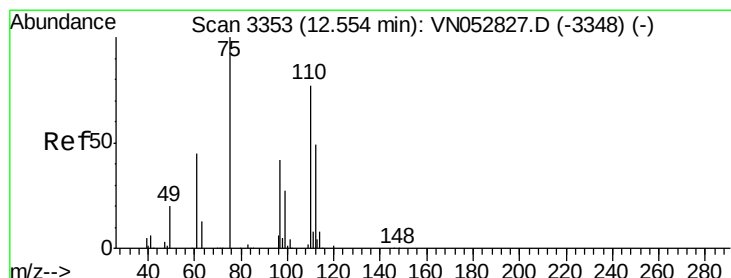
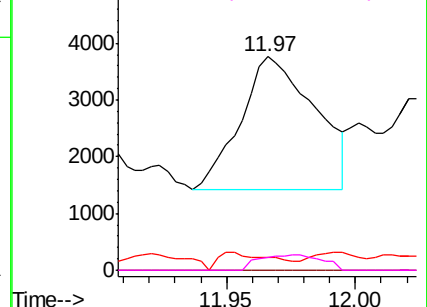
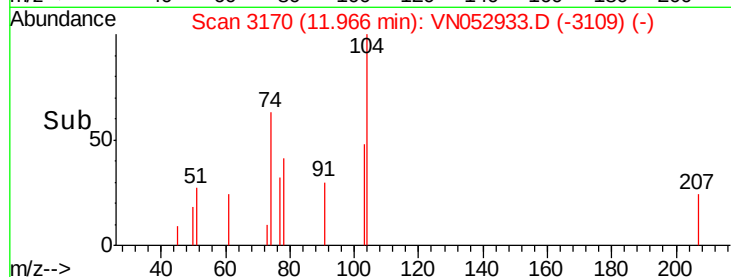
70 0.0 34.2 51.4#

55 0.0 20.3 30.5#

61 9.8 20.0 30.0#



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: 36.216 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052933.D

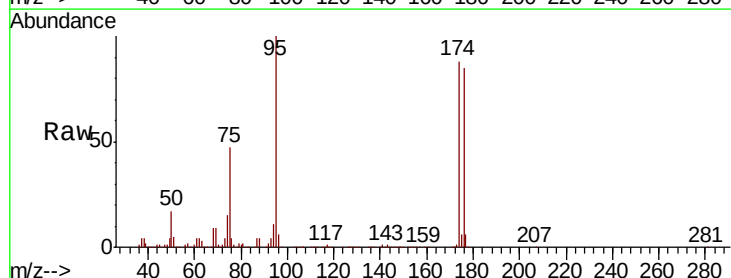
Acq: 17 Dec 2018 17:51

Tgt Ion: 75 Resp: 384962

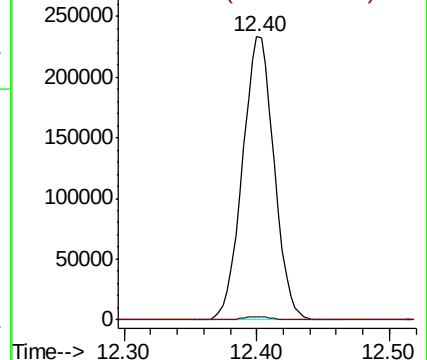
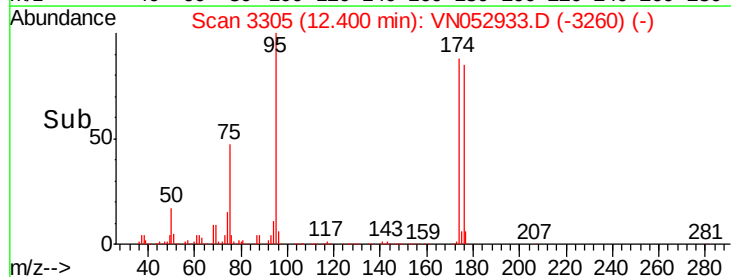
Ion Ratio Lower Upper

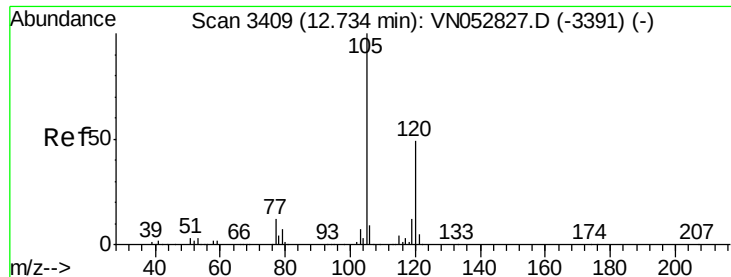
75 100

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

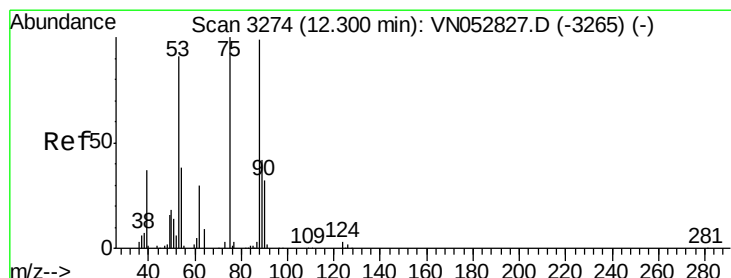
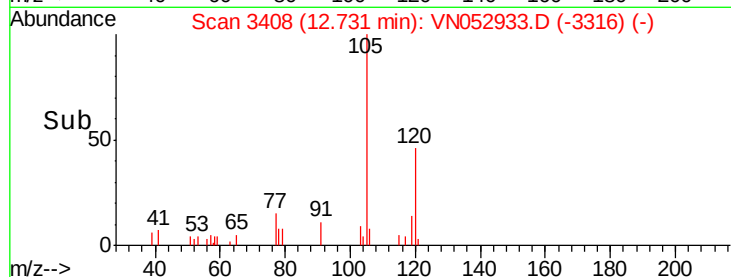
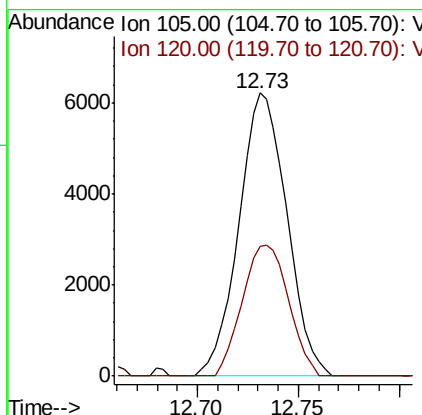
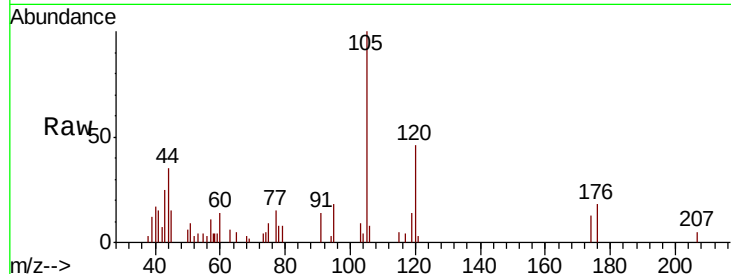




#80
 1,3,5-Trimethylbenzene
 Concen: 0.239 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052933.D
 Acq: 17 Dec 2018 17:51

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115729ZHE#03

Tot Ion:105 Resp: 10360
 Ion Ratio Lower Upper
 105 100
 120 44.6 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.344 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052933.D
 Acq: 17 Dec 2018 17:51

Tgt Ion: 75 Resp: 384962
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

