

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052873.D
 Acq On : 13 Dec 2018 19:08
 Operator : MD\SY
 Sample : PB115614ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115614ZHE#04

Quant Time: Dec 14 01:42:54 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	1256491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1942553	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1760296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	748964	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	640934	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	7.59	113	558206	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
50) Toluene-d8	10.09	98	2369212	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
62) 4-Bromofluorobenzene	12.40	95	799265	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	

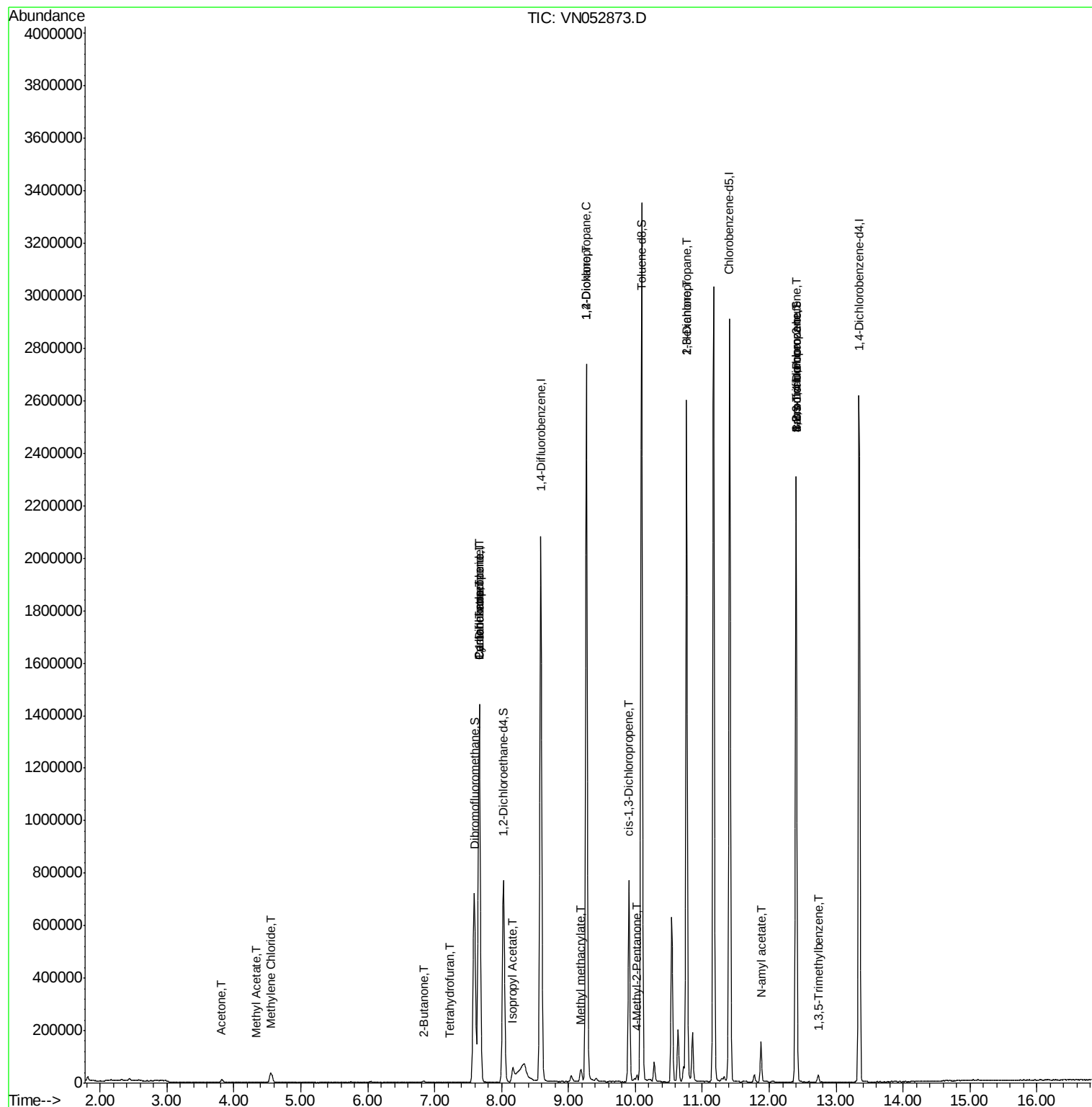
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	18542	6.179	ug/l	94
18) Methyl Acetate	4.33	43	5403	0.491	ug/l #	54
20) Methylene Chloride	4.55	84	28159	2.085	ug/l	95
25) 2-Butanone	6.84	43	1222	0.262	ug/l #	86
29) Tetrahydrofuran	7.22	42	1231	0.387	ug/l #	41
31) Cyclohexane	7.67	56	19968	0.305	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83755	4.682	ug/l #	49
38) Carbon Tetrachloride	7.67	117	109416	6.645	ug/l #	15
43) Isopropyl Acetate	8.17	43	76018	3.450	ug/l #	77
45) 1,2-Dichloropropane	9.27	63	3765	0.268	ug/l #	44
48) Methyl methacrylate	9.18	41	16884	1.747	ug/l #	12
49) 1,4-Dioxane	9.26	88	139	1.267	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21590	2.137	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	144511	7.126	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	27239	1.368	ug/l #	42
59) 2-Hexanone	10.76	43	369415	53.355	ug/l #	50
71) Bromoform	12.40	173	4668	0.541	ug/l #	1
74) N-amyl acetate	11.88	43	48330	3.148	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	375563	33.987	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	12433	0.275	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	375563	109.184	ug/l #	12

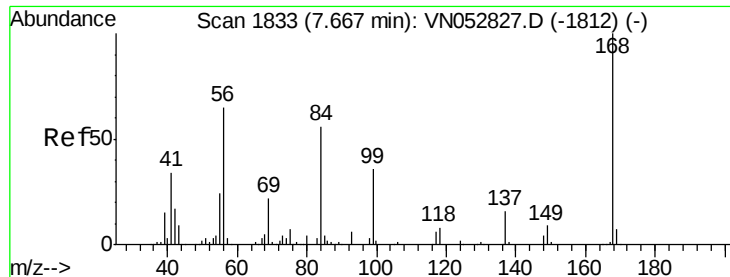
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121318\
Data File : VN052873.D
Acq On : 13 Dec 2018 19:08
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Sample : PB115614ZHE#04
Misc : 5.00mL/MSVOA N/WATER
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Quant Time: Dec 14 01:42:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

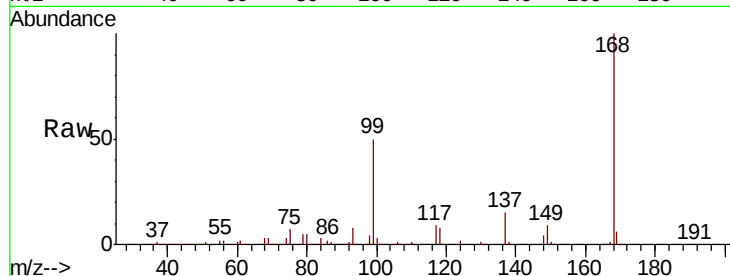
PB115614ZHE#04

Tot Ion:168 Resp: 1256491

Ion Ratio Lower Upper

168 100

99 49.8 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

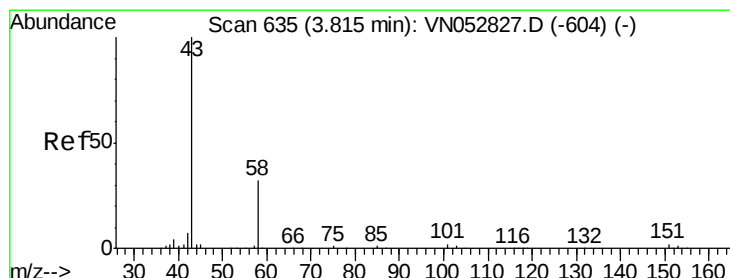
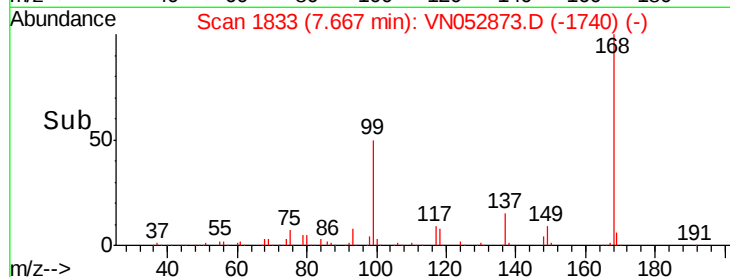
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 6.179 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052873.D

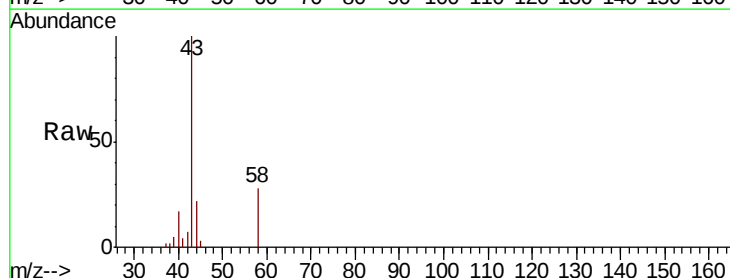
Acq: 13 Dec 2018 19:08

Tgt Ion: 43 Resp: 18542

Ion Ratio Lower Upper

43 100

58 28.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN052827.D (-604) (-)

3.82

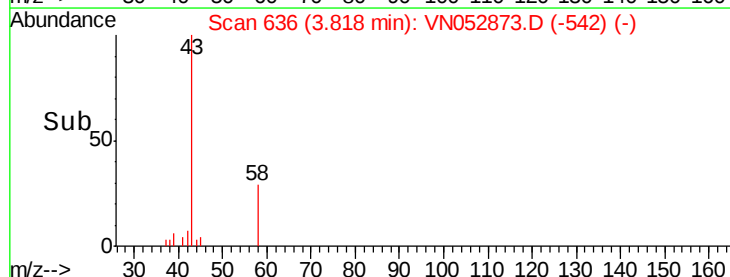
6000

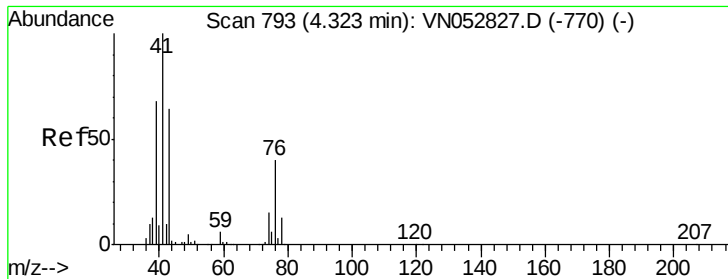
4000

2000

0

Time-->

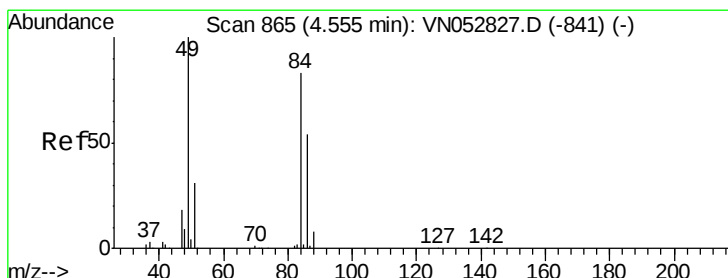
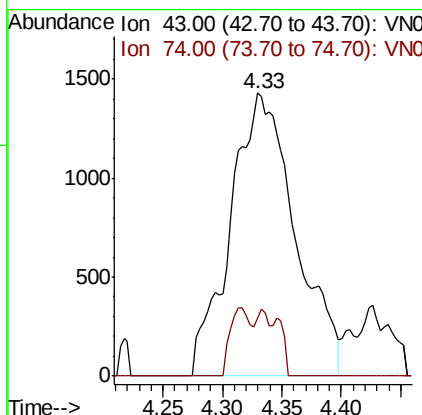
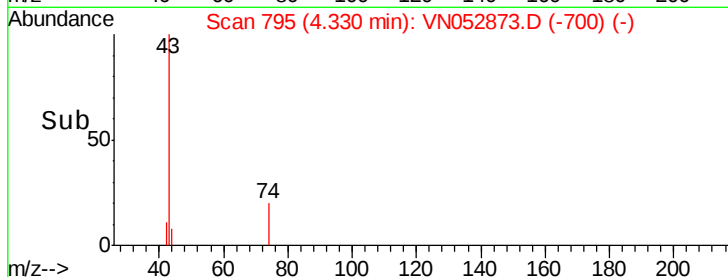
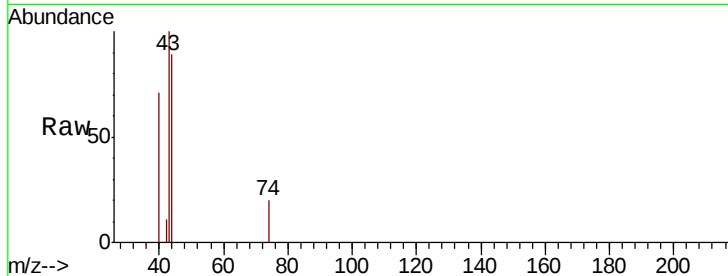




#18
Methyl Acetate
Concen: 0.491 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

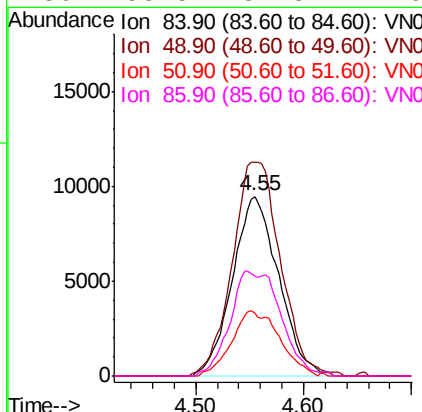
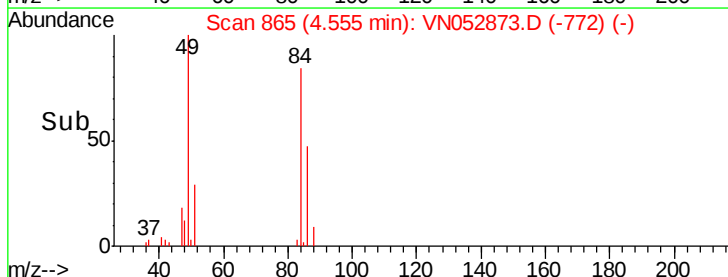
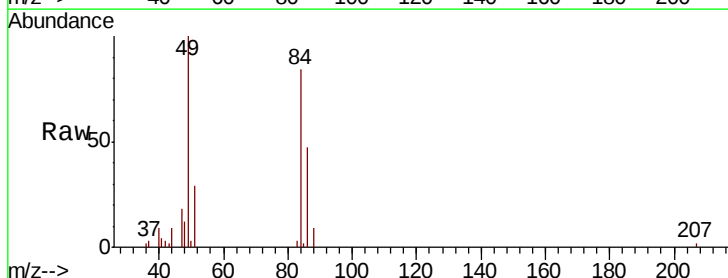
Instrument :
MSVOA_N
ClientSampleId :
PB115614ZHE#04

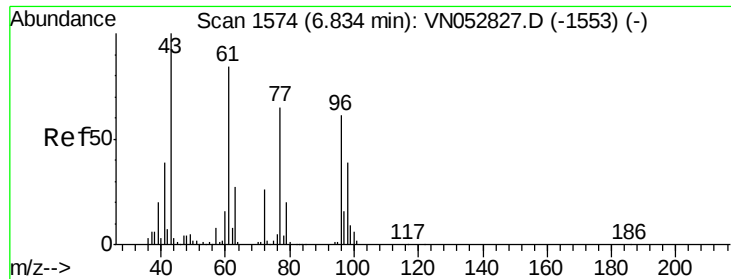
Tot Ion: 43 Resp: 5403
Ion Ratio Lower Upper
43 100
74 1.5 19.2 28.8#



#20
Methylene Chloride
Concen: 2.085 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

Tgt Ion: 84 Resp: 28159
Ion Ratio Lower Upper
84 100
49 118.8 96.8 145.2
51 34.9 29.9 44.9
86 55.5 51.8 77.6





#25

2-Butanone

Concen: 0.262 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

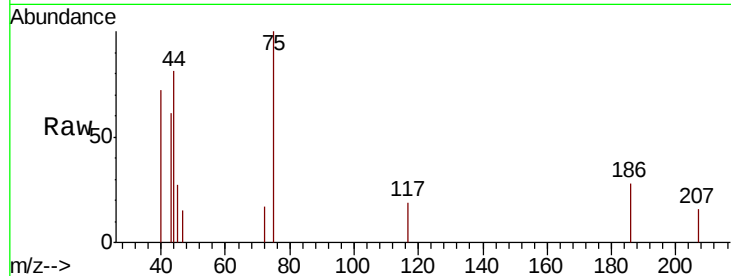
PB115614ZHE#04

Tot Ion: 43 Resp: 1222

Ion Ratio Lower Upper

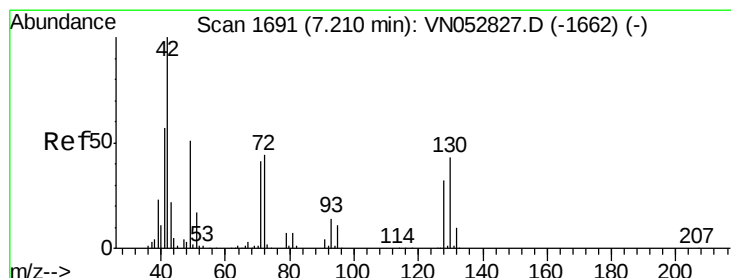
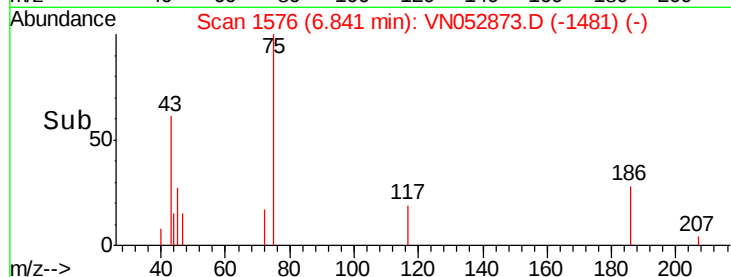
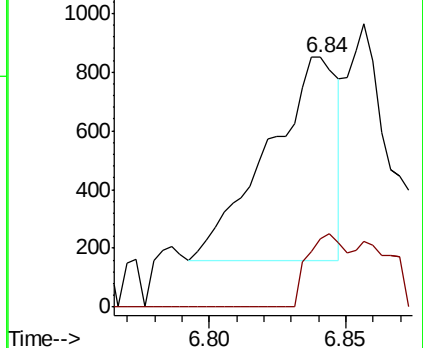
43 100

72 33.7 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.387 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

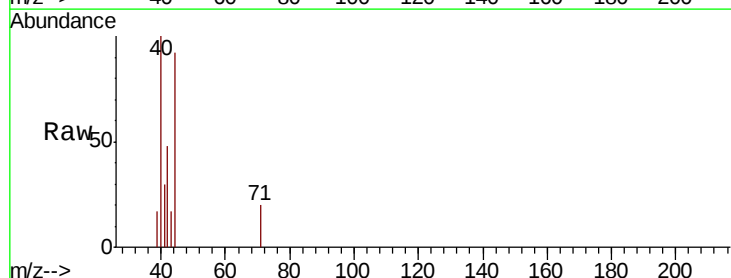
Tgt Ion: 42 Resp: 1231

Ion Ratio Lower Upper

42 100

72 0.0 34.7 52.1#

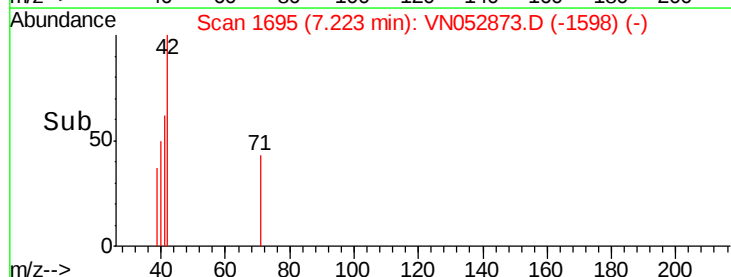
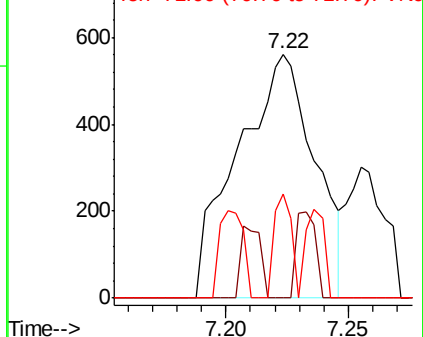
71 9.8 32.3 48.5#

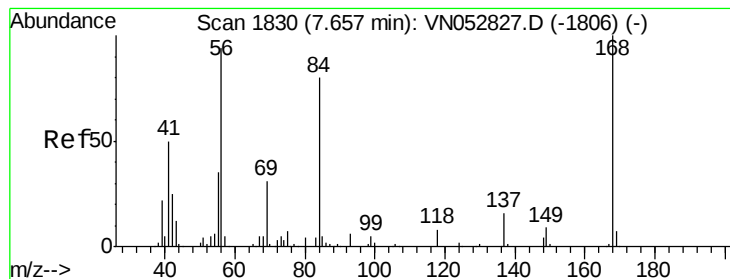


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.305 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB115614ZHE#04

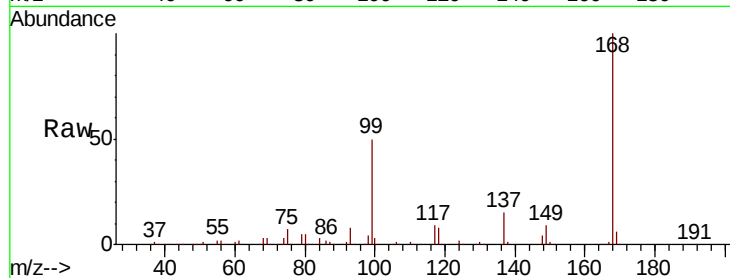
Tot Ion: 56 Resp: 19968

Ion Ratio Lower Upper

56 100

69 206.4 26.6 39.8#

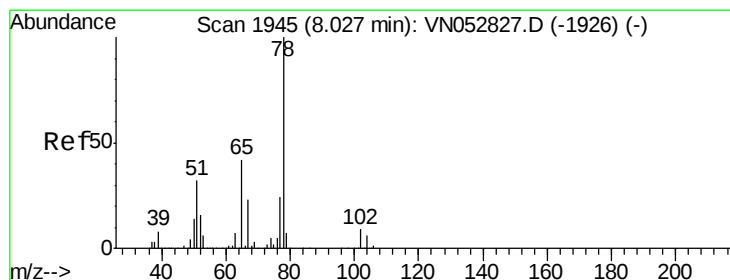
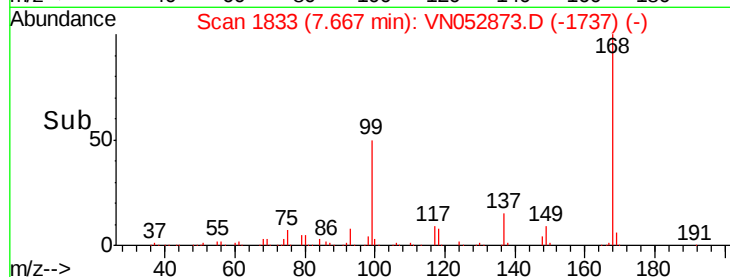
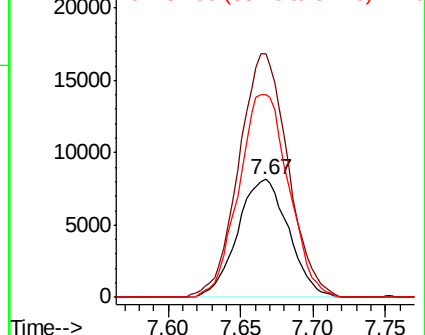
84 171.9 68.4 102.6#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052873.D

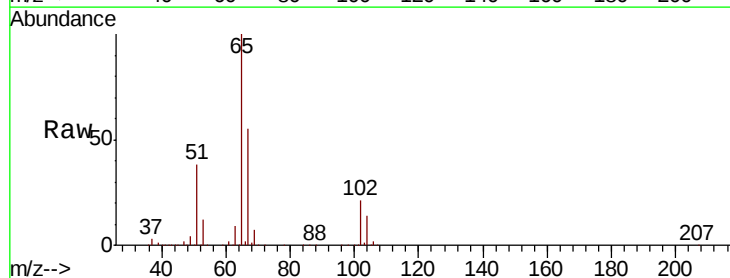
Acq: 13 Dec 2018 19:08

Tgt Ion: 65 Resp: 640934

Ion Ratio Lower Upper

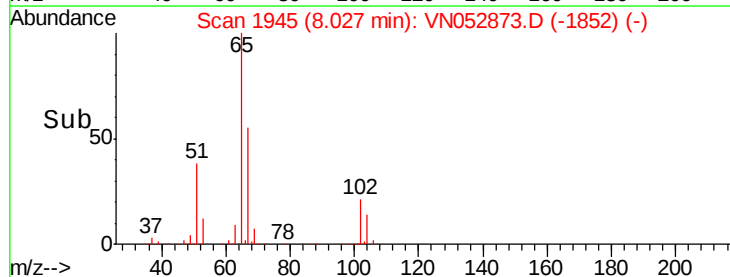
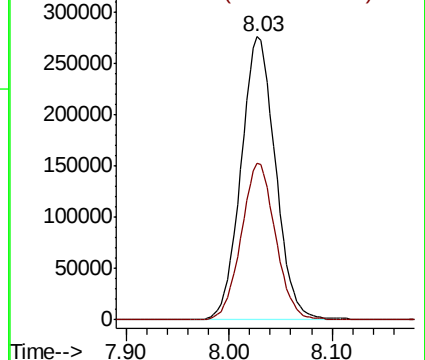
65 100

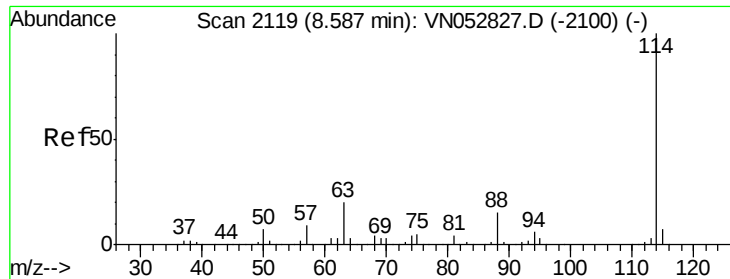
67 54.9 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

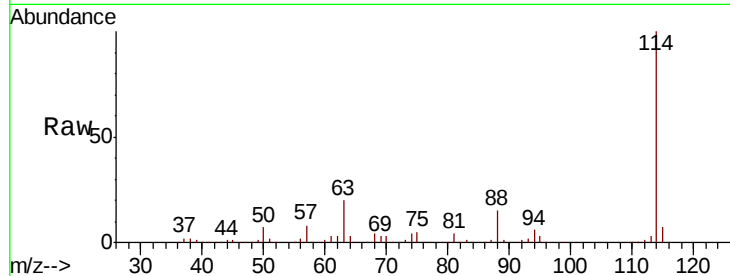




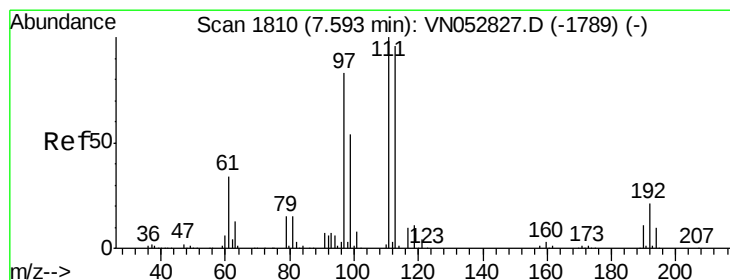
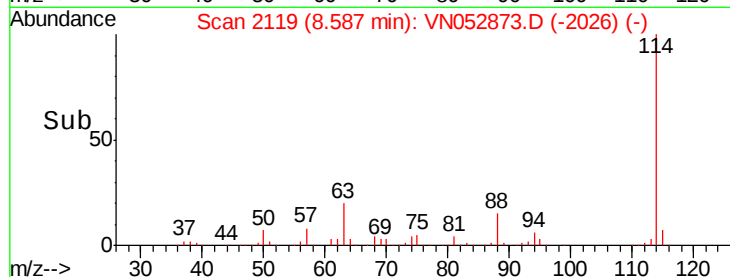
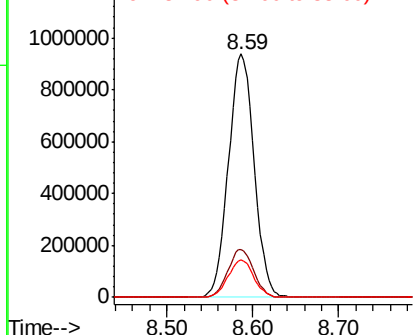
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052873.D
 Acq: 13 Dec 2018 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115614ZHE#04

Tot Ion:114 Resp: 1942553
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.5 0.0 31.0

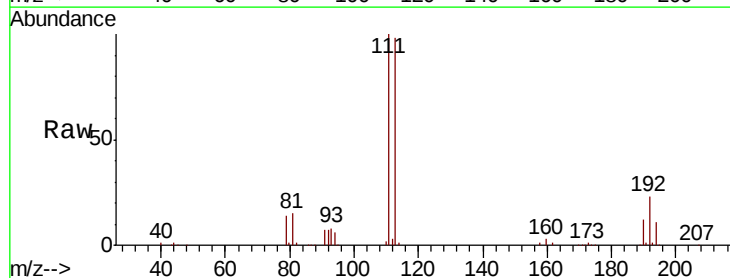


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

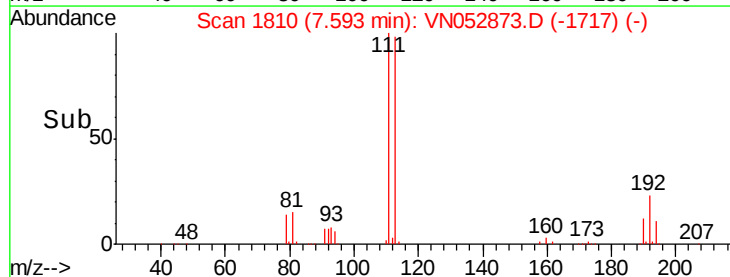
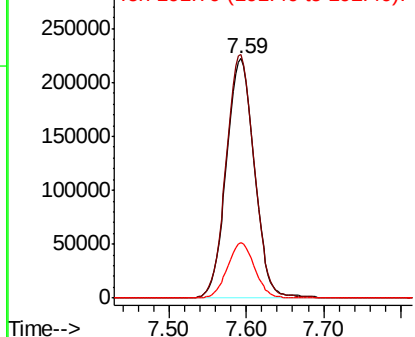


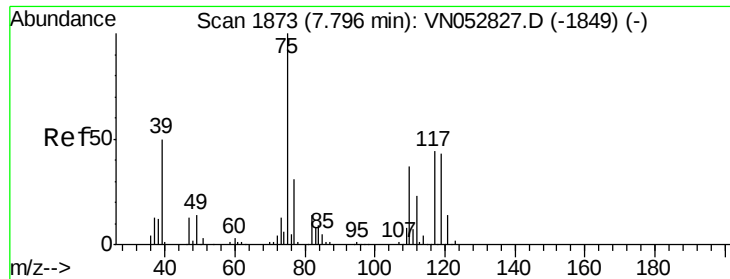
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052873.D
 Acq: 13 Dec 2018 19:08

Tgt Ion:113 Resp: 558206
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.0 124.4
 192 22.4 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: 4.682 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB115614ZHE#04

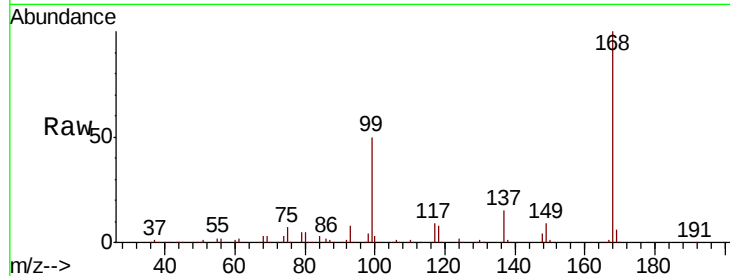
Tot Ion: 75 Resp: 83755

Ion Ratio Lower Upper

75 100

110 8.5 18.2 54.6#

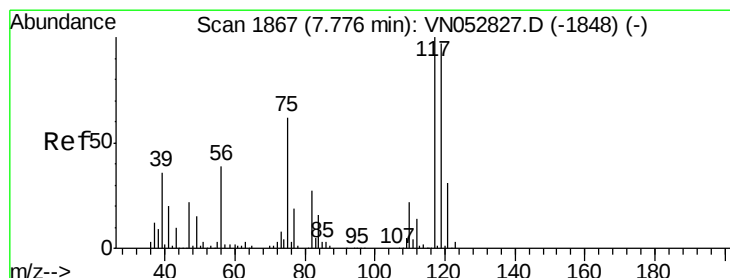
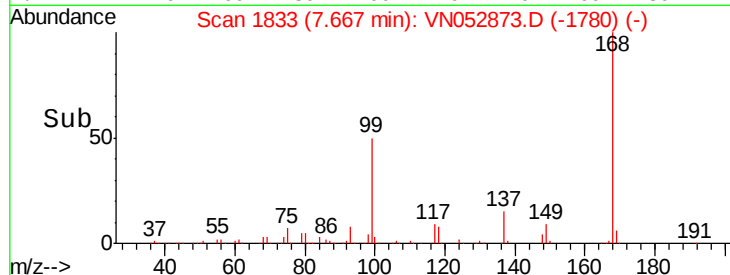
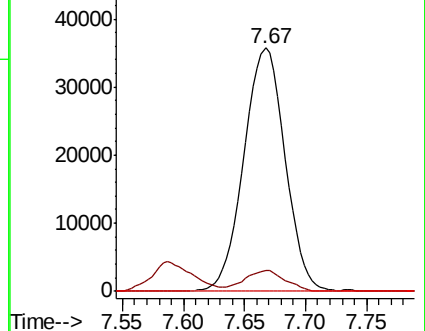
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN052827.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN052827.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 6.645 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

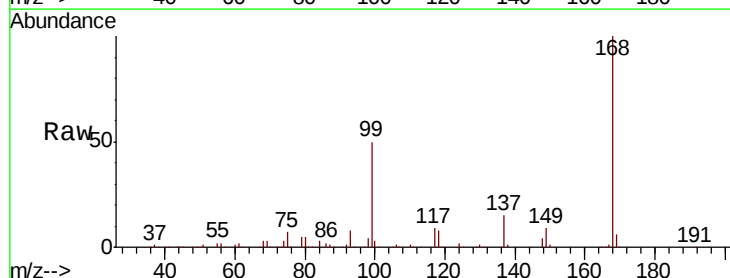
Tgt Ion: 117 Resp: 109416

Ion Ratio Lower Upper

117 100

119 4.5 77.1 115.7#

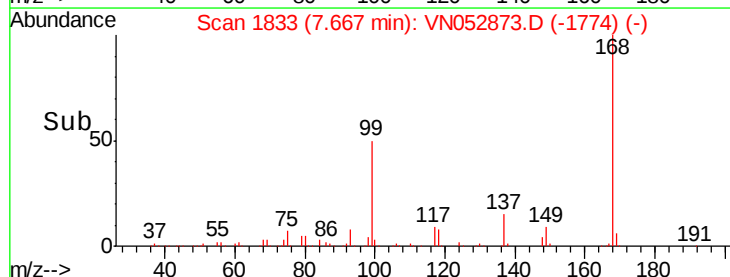
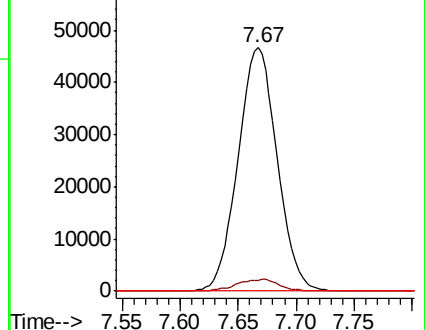
121 0.0 24.9 37.3#

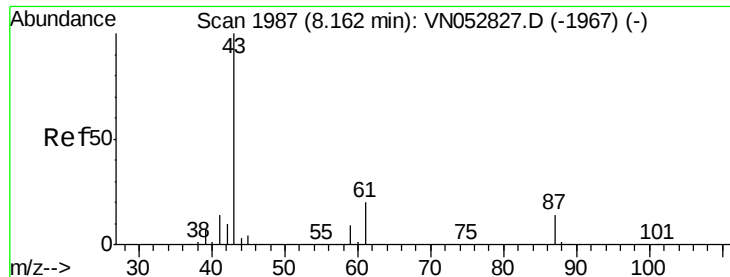


Abundance Ion 116.80 (116.50 to 117.50): VN052827.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN052827.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN052827.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 3.450 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB115614ZHE#04

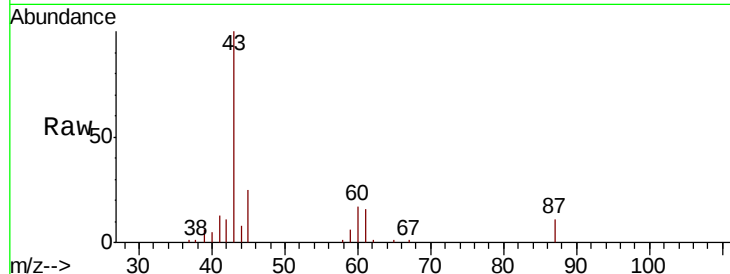
Tot Ion: 43 Resp: 76018

Ion Ratio Lower Upper

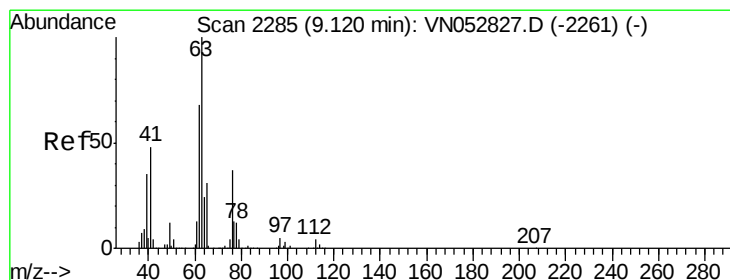
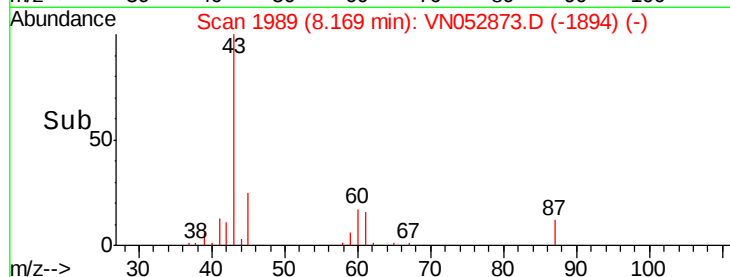
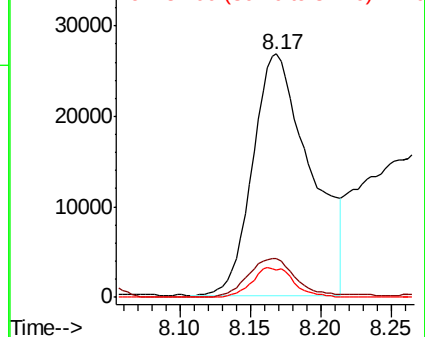
43 100

61 13.6 22.9 34.3#

87 9.0 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: 0.268 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052873.D

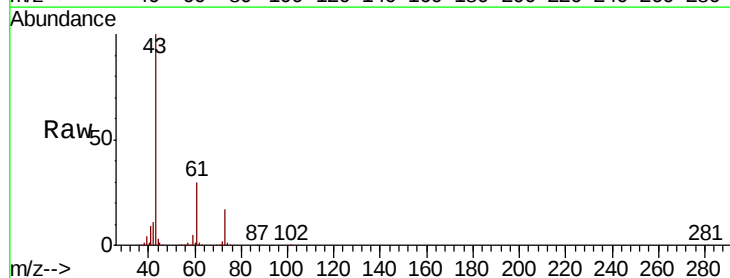
Acq: 13 Dec 2018 19:08

Tgt Ion: 63 Resp: 3765

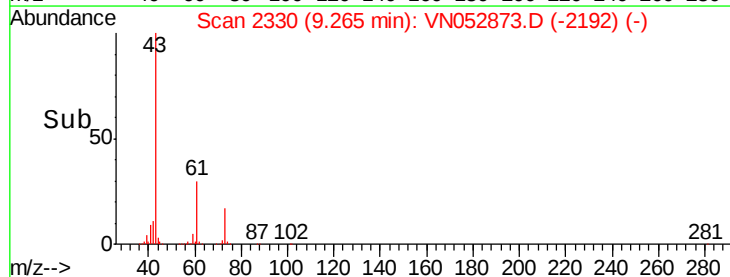
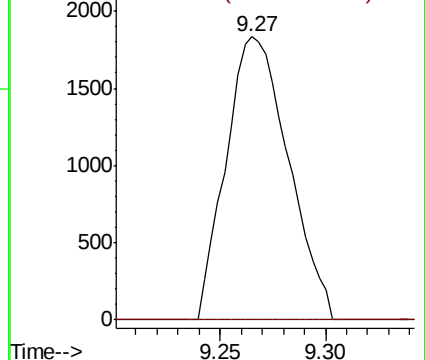
Ion Ratio Lower Upper

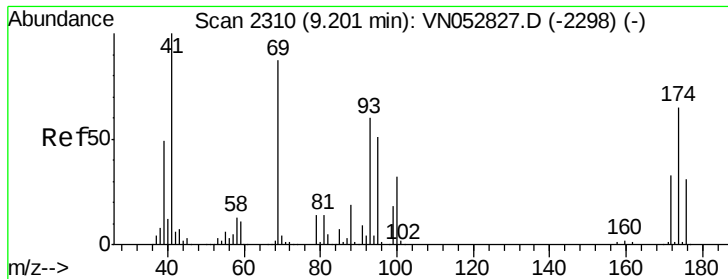
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

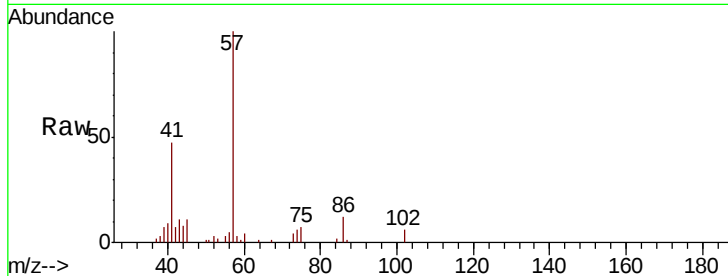




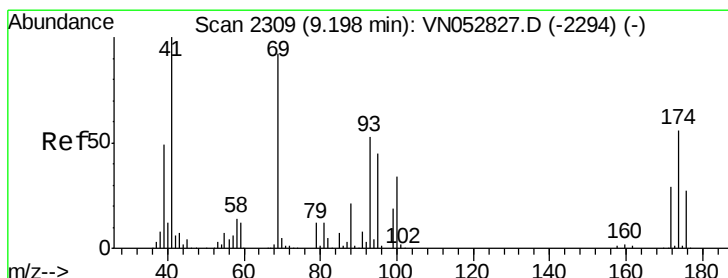
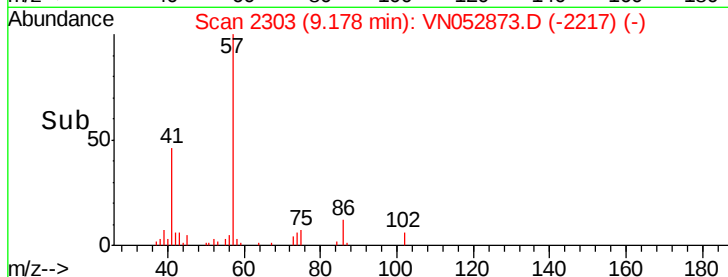
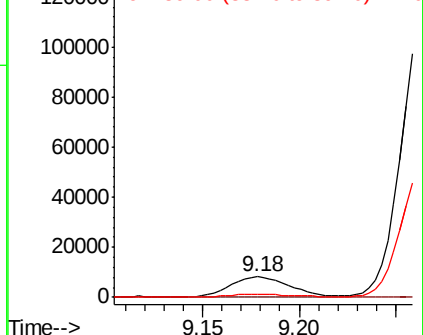
#48
Methvl methacrylate
Concen: 1.747 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
PB115614ZHE#04

Tot Ion: 41 Resp: 16884
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#

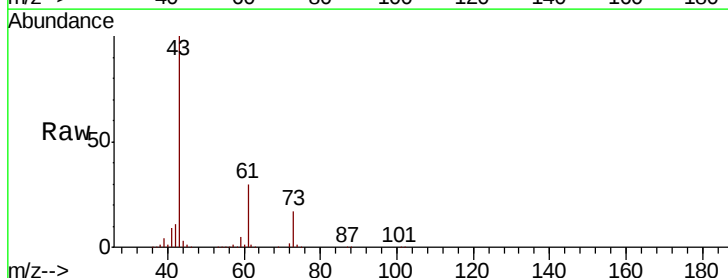


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

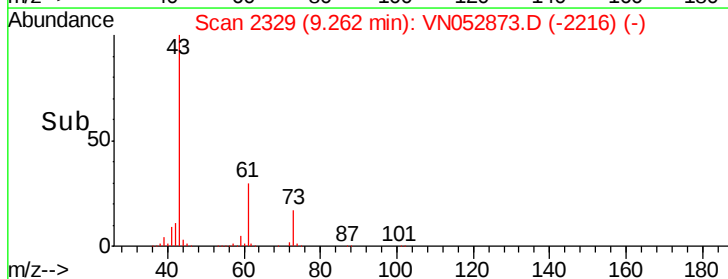
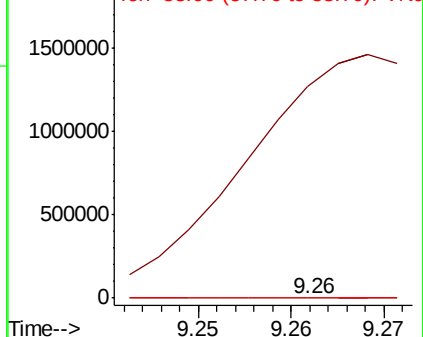


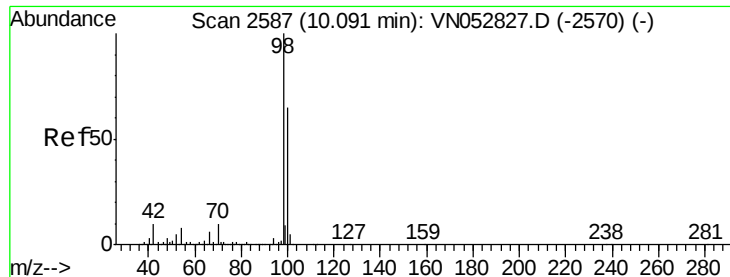
#49
1,4-Dioxane
Concen: 1.267 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

Tgt Ion: 88 Resp: 139
Ion Ratio Lower Upper
88 100
43 1942107.2 26.6 40.0#
58 7936.7 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: 1.267 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

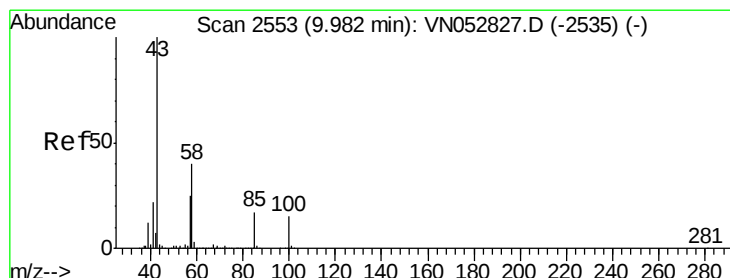
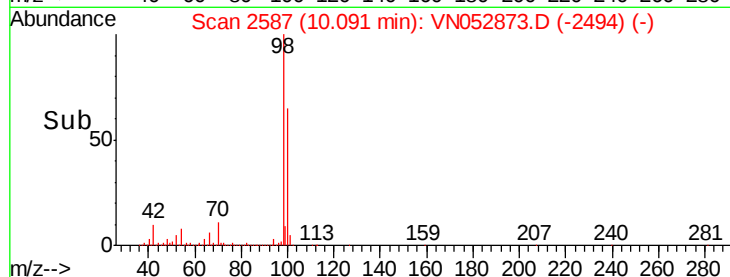
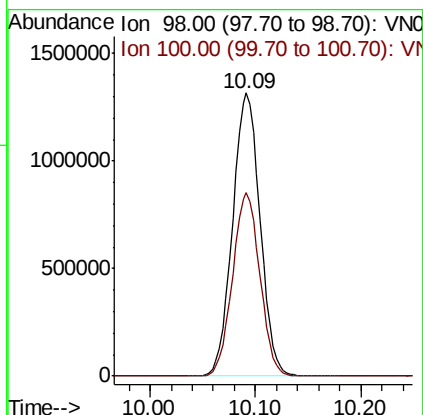
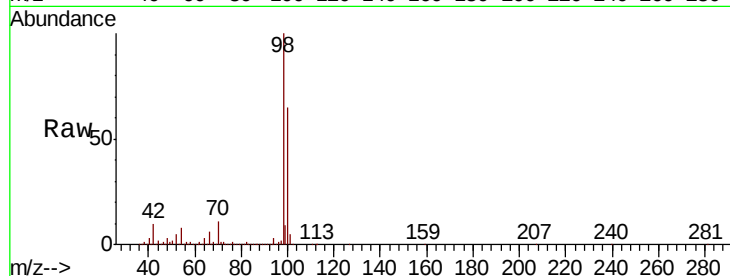
PB115614ZHE#04

Tot Ion: 98 Resp: 2369212

Ion Ratio Lower Upper

98 100

100 64.3 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 2.137 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052873.D

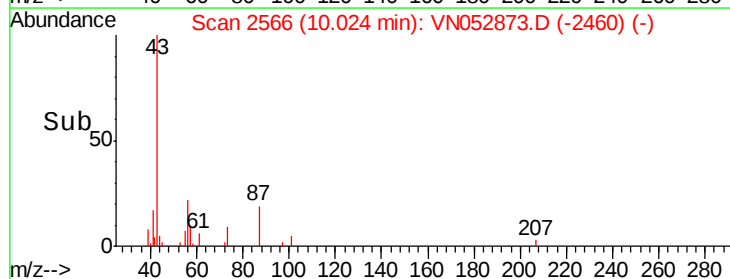
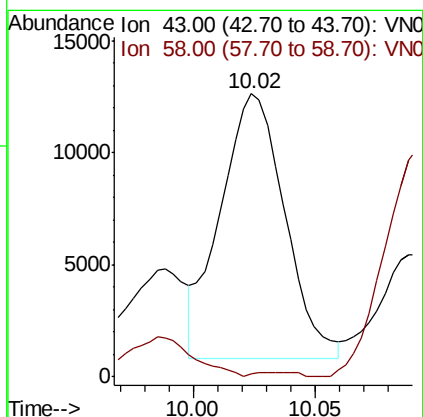
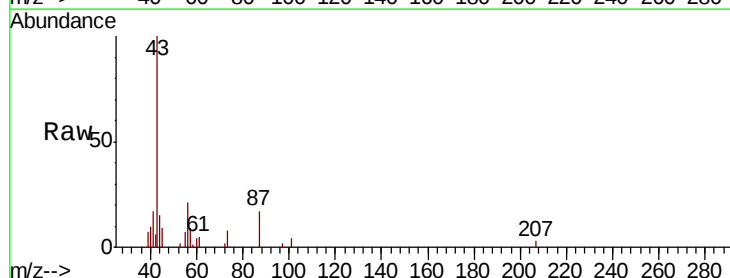
Acq: 13 Dec 2018 19:08

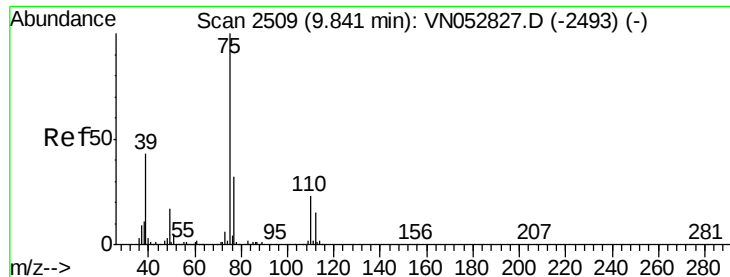
Tgt Ion: 43 Resp: 21590

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 7.126 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB115614ZHE#04

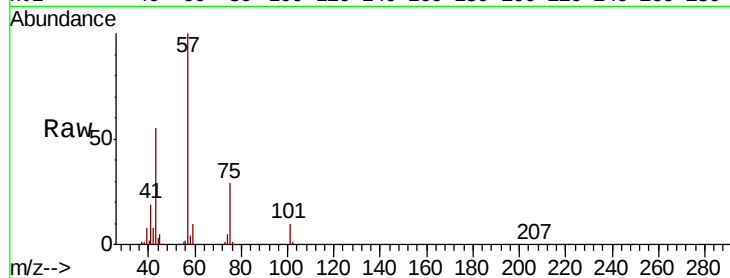
Tot Ion: 75 Resp: 144511

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

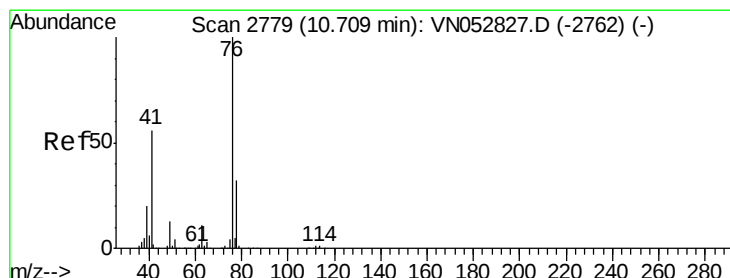
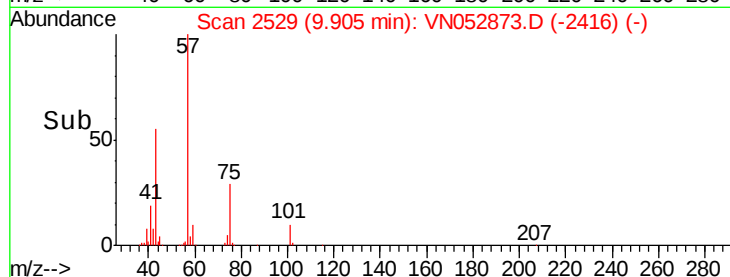
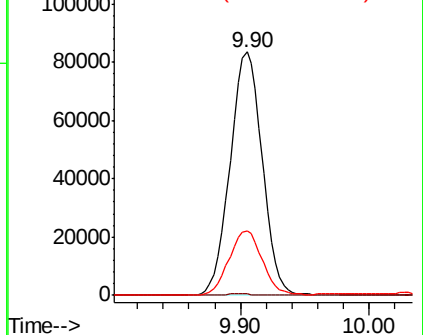
39 26.4 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.368 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052873.D

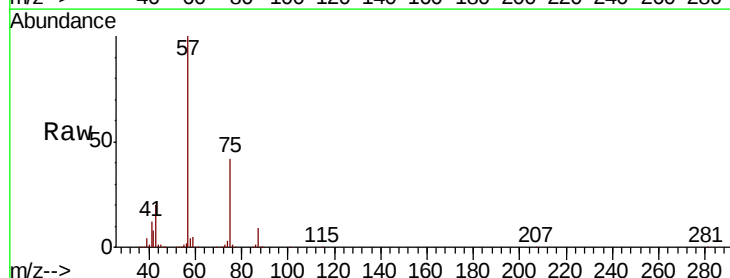
Acq: 13 Dec 2018 19:08

Tgt Ion: 76 Resp: 27239

Ion Ratio Lower Upper

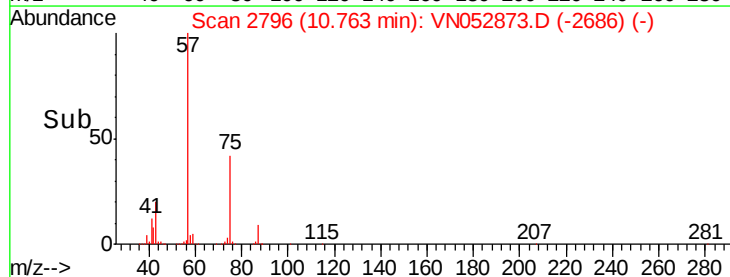
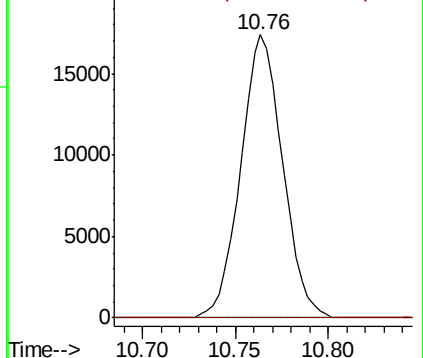
76 100

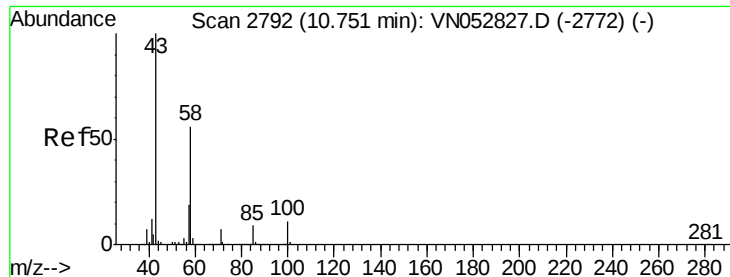
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

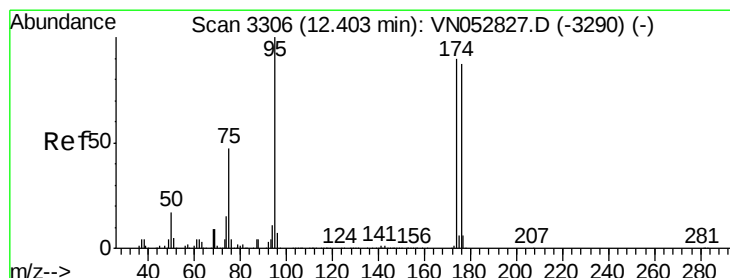
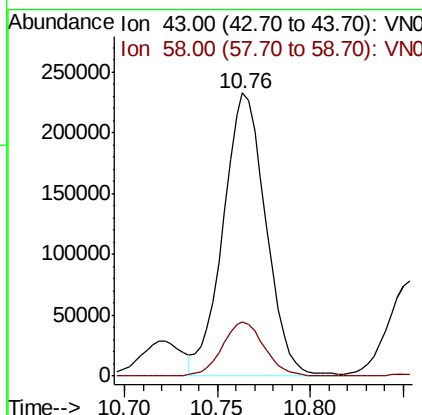
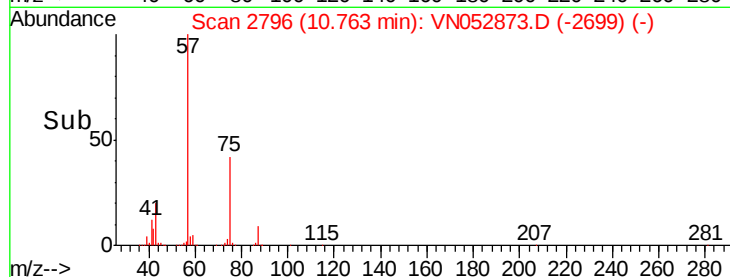
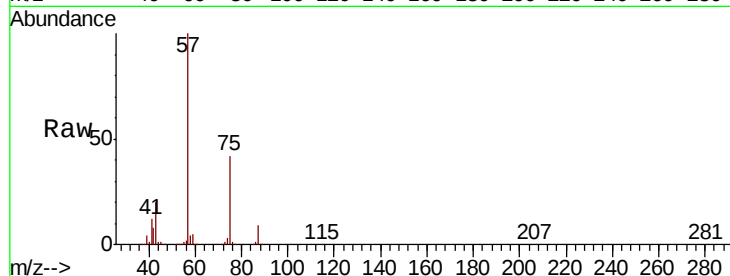




#59
2-Hexanone
Concen: 53.355 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

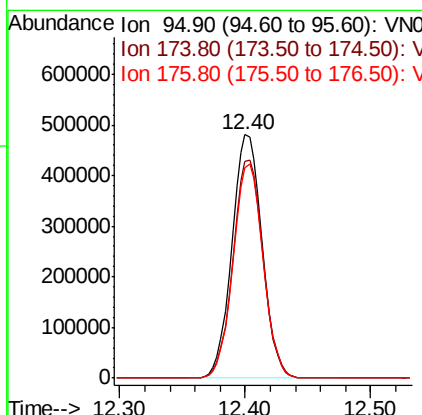
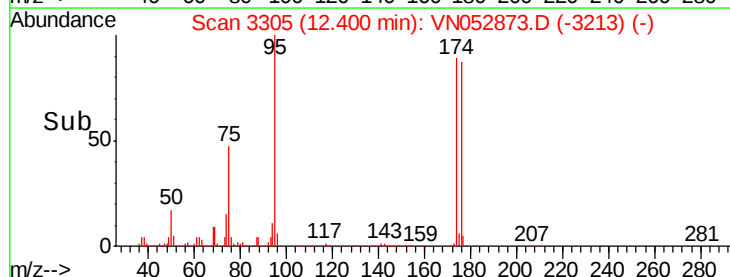
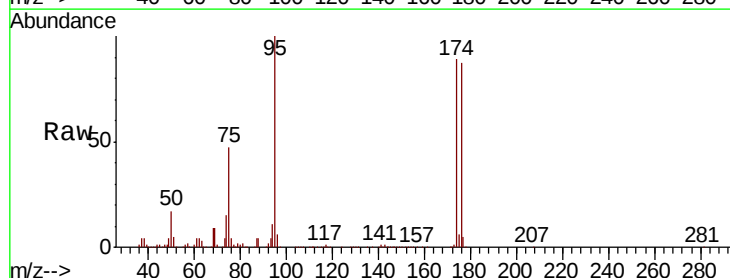
Instrument :
MSVOA_N
ClientSampleId :
PB115614ZHE#04

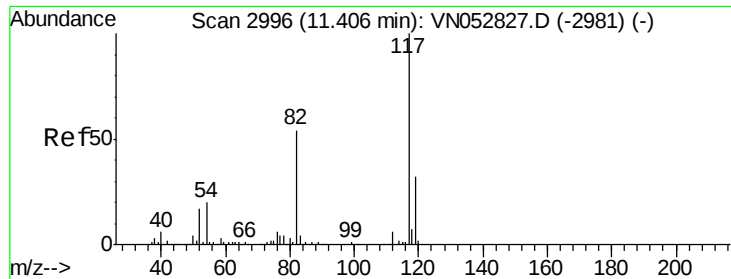
Tot Ion: 43 Resp: 369415
Ion Ratio Lower Upper
43 100
58 19.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

Tgt Ion: 95 Resp: 799265
Ion Ratio Lower Upper
95 100
174 89.8 0.0 178.8
176 87.7 0.0 173.8

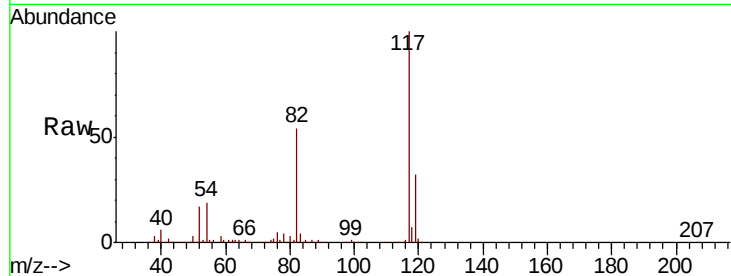




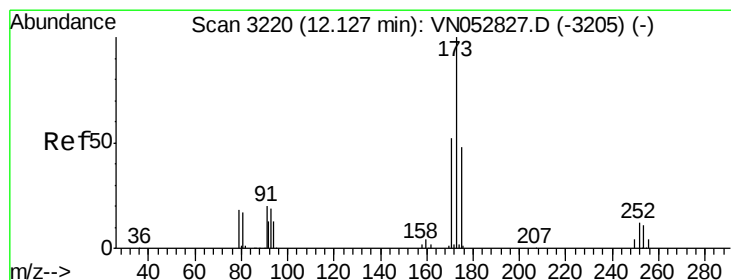
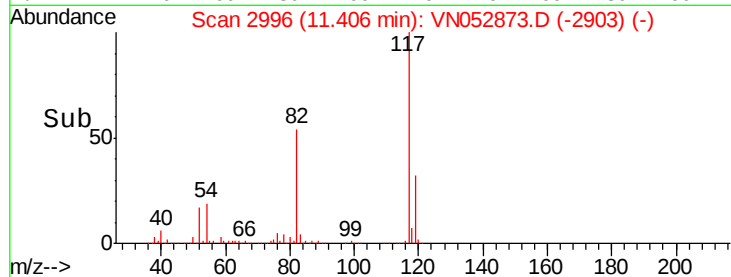
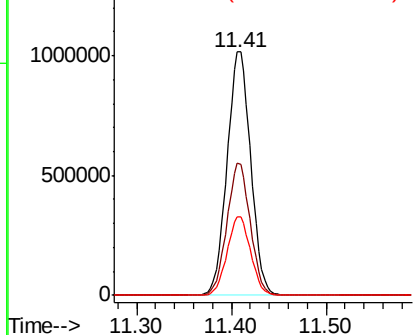
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

Instrument :
MSVOA_N
ClientSampleId :
PB115614ZHE#04

Tot Ion:117 Resp: 1760296
Ion Ratio Lower Upper
117 100
82 54.1 42.8 64.2
119 32.1 25.5 38.3

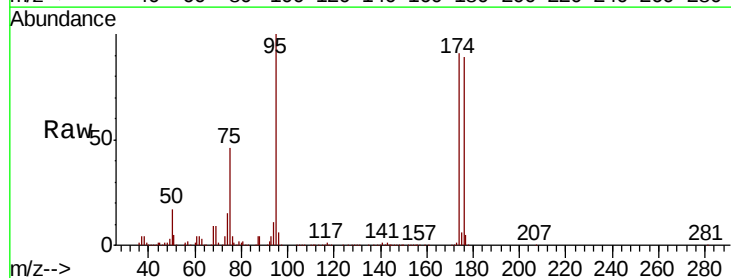


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

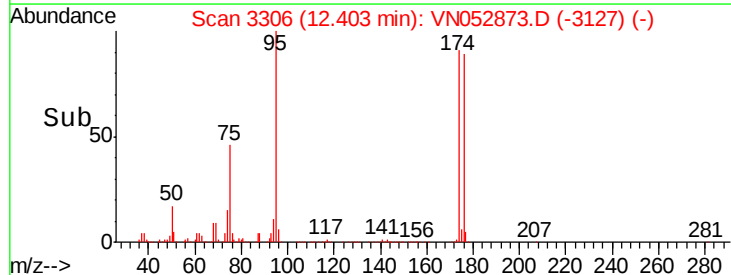
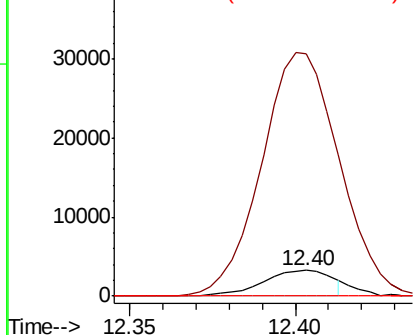


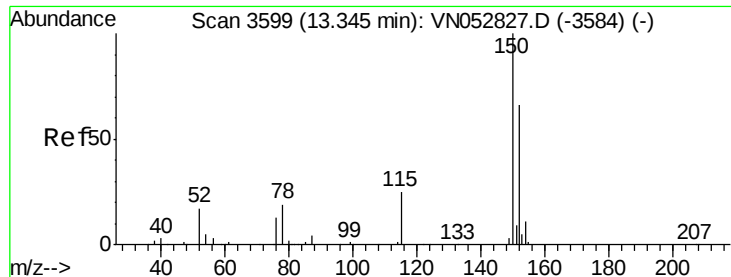
#71
Bromoform
Concen: 0.541 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052873.D
Acq: 13 Dec 2018 19:08

Tgt Ion:173 Resp: 4668
Ion Ratio Lower Upper
173 100
175 949.1 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: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB115614ZHE#04

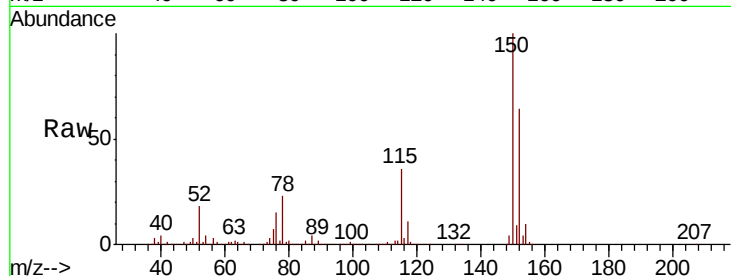
Tot Ion:152 Resp: 748964

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

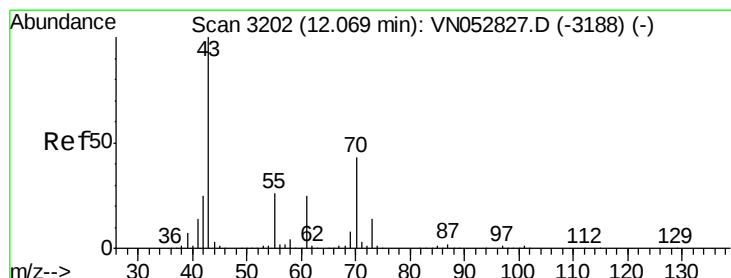
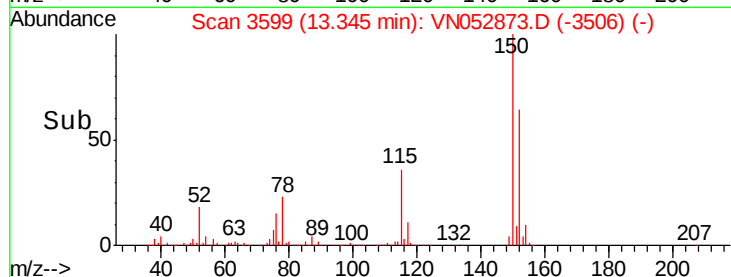
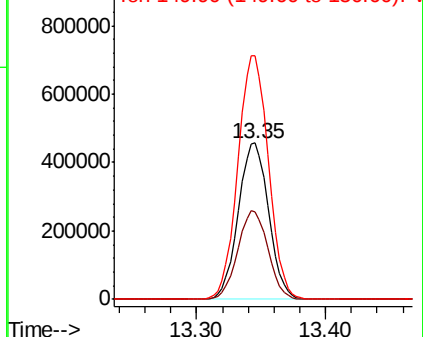
150 156.4 0.0 347.8



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-ethyl acetate

Concen: 3.148 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Tgt Ion: 43 Resp: 48330

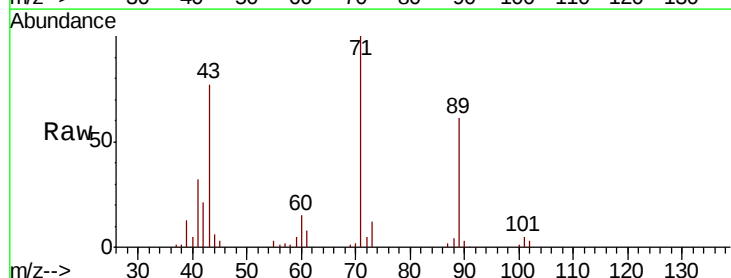
Ion Ratio Lower Upper

43 100

70 2.1 34.2 51.4#

55 4.0 20.3 30.5#

61 11.3 20.0 30.0#

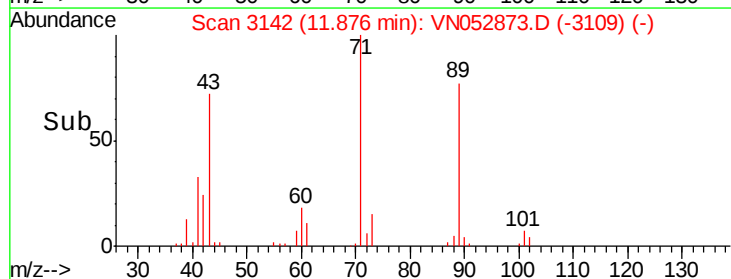
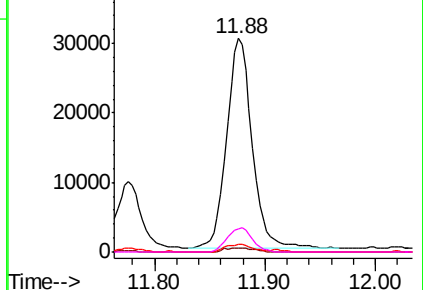


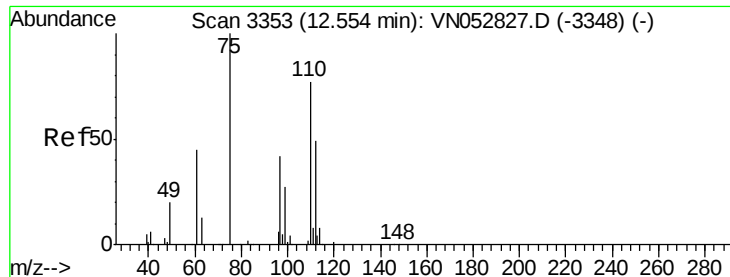
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 33.987 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

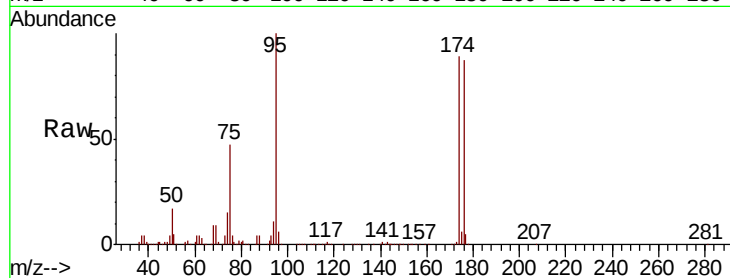
PB115614ZHE#04

Tot Ion: 75 Resp: 375563

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052827.D (-3348) (-)

12.40

250000

200000

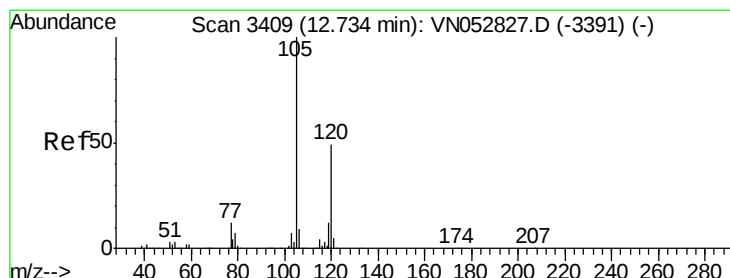
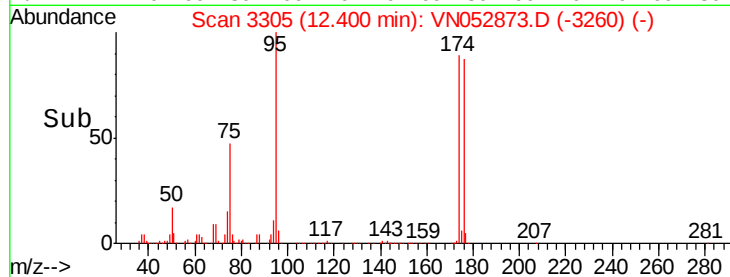
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.275 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052873.D

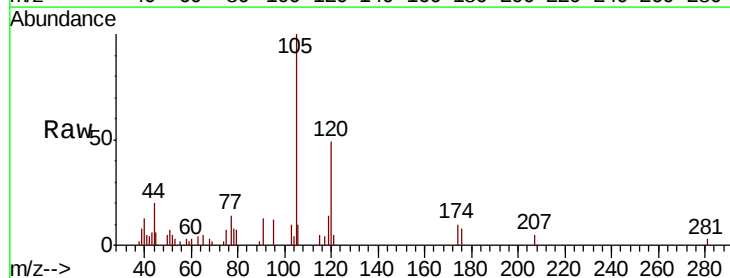
Acq: 13 Dec 2018 19:08

Tgt Ion: 105 Resp: 12433

Ion Ratio Lower Upper

105 100

120 52.1 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052827.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052827.D (-3391) (-)

12.73

8000

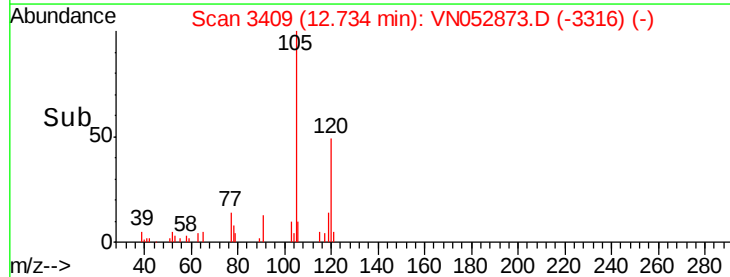
6000

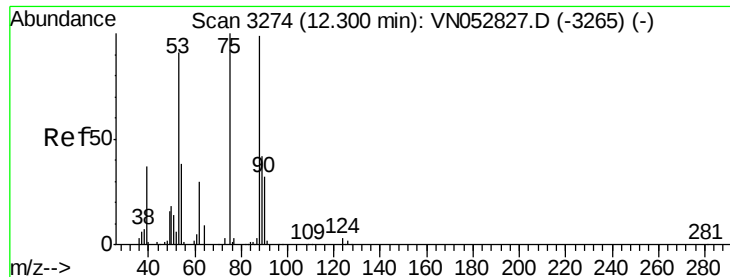
4000

2000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 109.184 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052873.D

Acq: 13 Dec 2018 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB115614ZHE#04

Tot Ion: 75 Resp: 375563

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

