

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057847.D
 Acq On : 10 Sep 2019 9:26
 Operator : JC/SP
 Sample : K4602-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 11:00:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	241588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	445795	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	391503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	184410	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	291837	59.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.28%	
35) Dibromofluoromethane	7.58	113	198606	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
50) Toluene-d8	10.09	98	711852	44.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.12%	
62) 4-Bromofluorobenzene	12.40	95	231957	38.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.20%	

Target Compounds

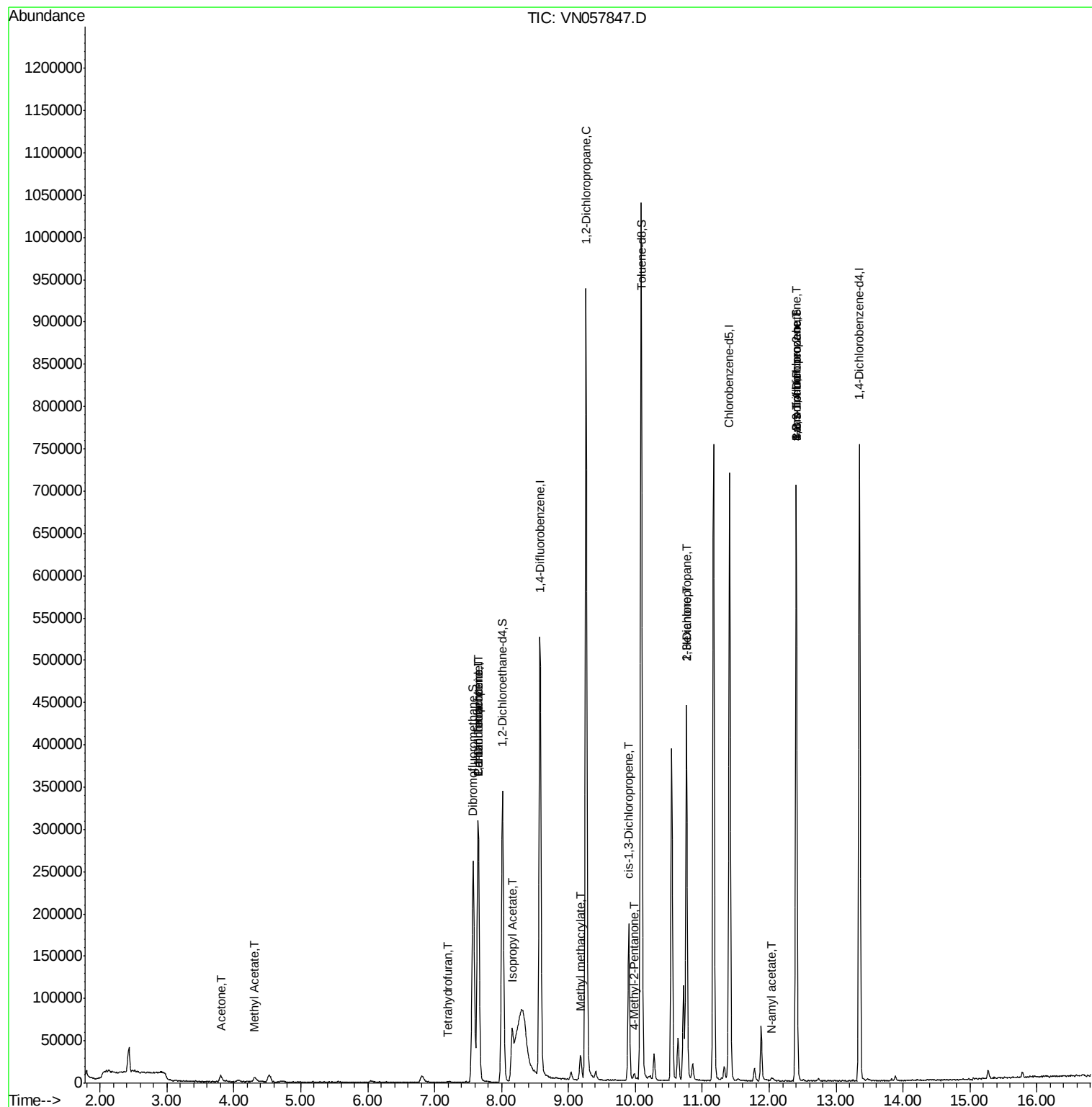
				Qvalue	
5) Bromomethane	2.55	94	121	Below Cal	# 80
16) Acetone	3.80	43	13185	8.220 ug/l	# 87
18) Methyl Acetate	4.31	43	10228	2.391 ug/l	# 84
20) Methylene Chloride	4.53	84	3535	Below Cal	# 85
29) Tetrahydrofuran	7.19	42	367	0.257 ug/l	# 34
31) Cyclohexane	7.65	56	6727	Below Cal	# 29
36) 1,1-Dichloropropene	7.65	75	21433	4.146 ug/l	# 46
38) Carbon Tetrachloride	7.65	117	25460	5.394 ug/l	# 16
43) Isopropyl Acetate	8.16	43	80724	8.986 ug/l	# 84
45) 1,2-Dichloropropane	9.26	63	1193	0.263 ug/l	# 44
48) Methyl methacrylate	9.18	41	3555	0.780 ug/l	# 13
51) 4-Methyl-2-Pentanone	9.99	43	4419	0.831 ug/l	# 78
54) cis-1,3-Dichloropropene	9.90	75	31633	4.978 ug/l	# 65
57) 1,3-Dichloropropane	10.76	76	4123	0.576 ug/l	# 43
59) 2-Hexanone	10.76	43	70027	17.575 ug/l	# 53
71) Bromoform	12.40	173	601	0.271 ug/l	# 1
74) N-amyl acetate	12.04	43	3155	0.507 ug/l	# 49
76) 1,2,3-Trichloropropane	12.40	75	127748	30.623 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	127748	107.762 ug/l	# 6
95) Naphthalene	15.14	128	475	Below Cal	# 69

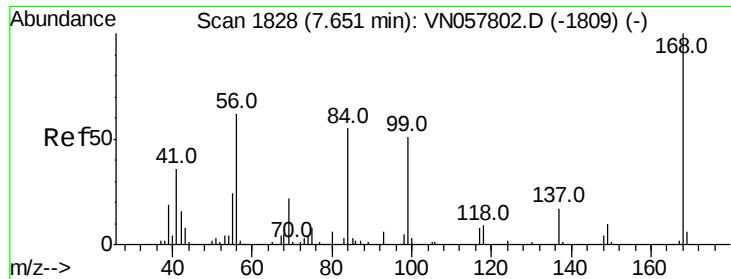
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 10 03:02:13 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

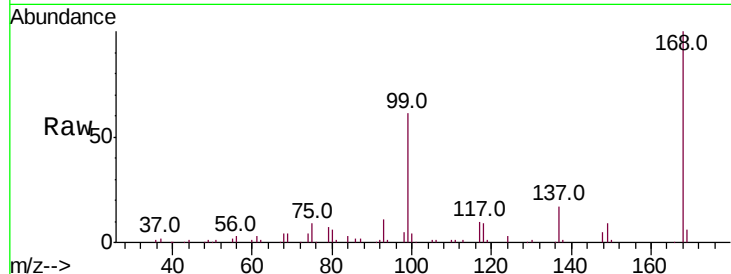
ClientSampled :

Tot Ion:168 Resp: 241588

Ion Ratio Lower Upper

168 100

99 60.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

100000

80000

60000

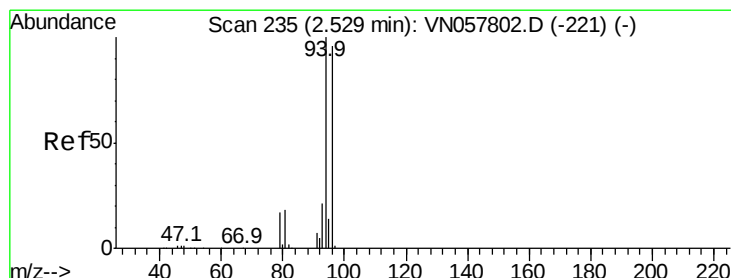
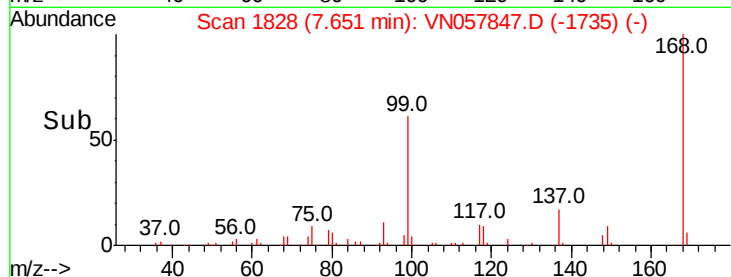
40000

20000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057847.D

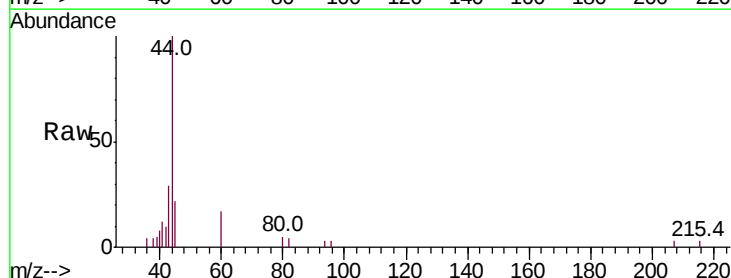
Acq: 10 Sep 2019 9:26

Tgt Ion: 94 Resp: 121

Ion Ratio Lower Upper

94 100

96 115.5 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.55

200

150

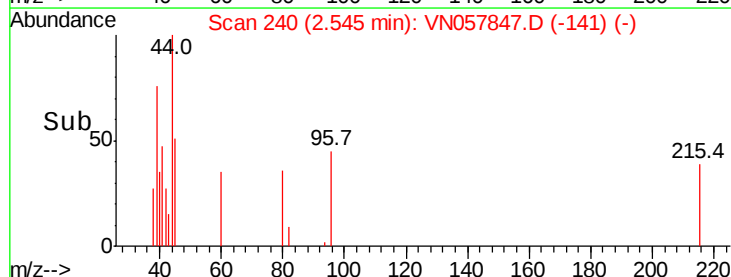
100

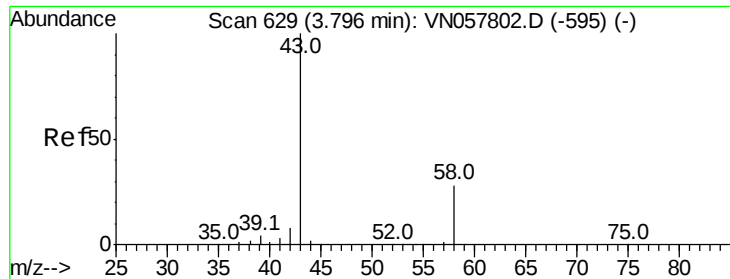
50

0

Time-->

2.53 2.54 2.55 2.56





#16

Acetone

Concen: 8.220 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

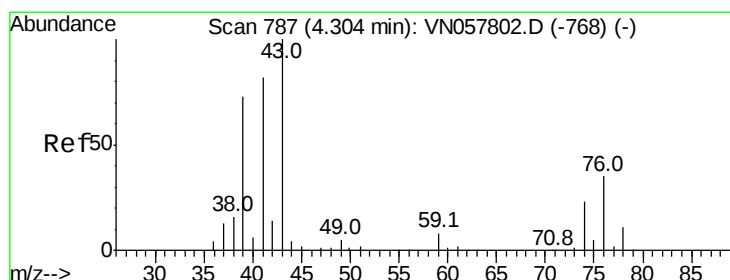
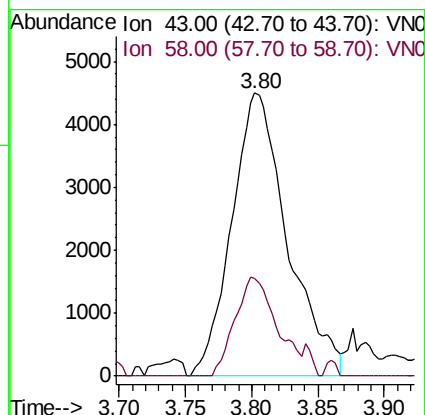
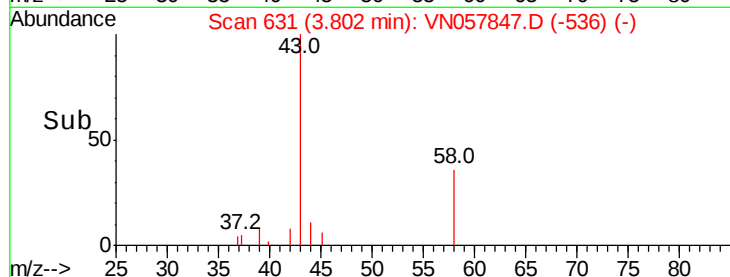
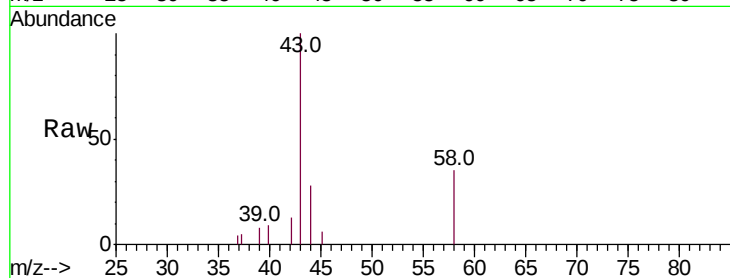
ClientSampled :

Tot Ion: 43 Resp: 13185

Ion Ratio Lower Upper

43 100

58 34.7 22.2 33.2#



#18

Methyl Acetate

Concen: 2.391 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057847.D

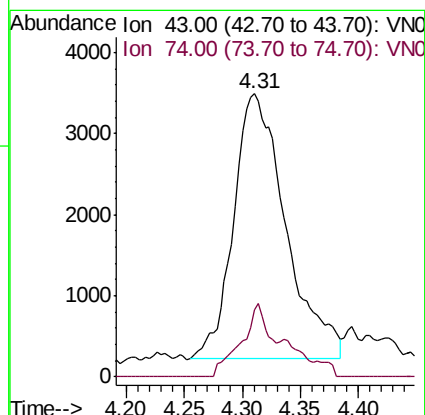
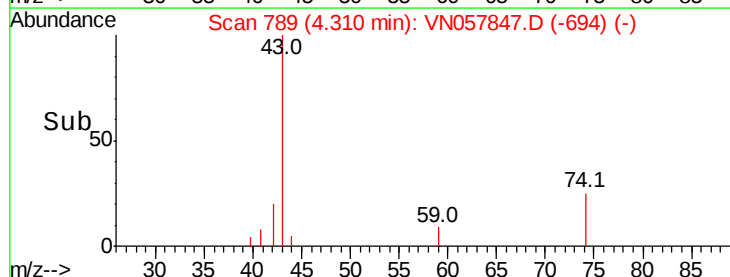
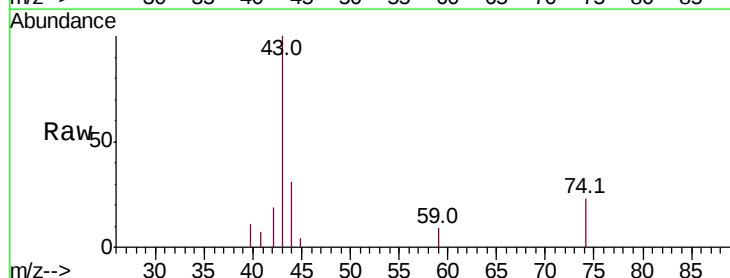
Acq: 10 Sep 2019 9:26

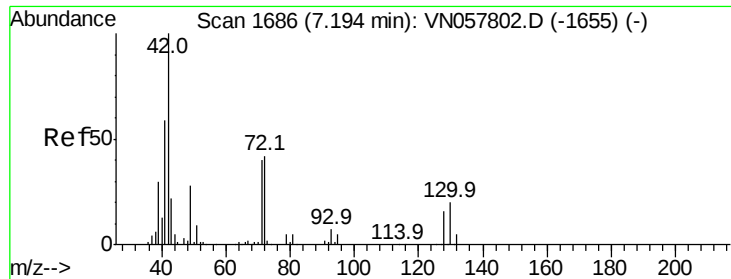
Tgt Ion: 43 Resp: 10228

Ion Ratio Lower Upper

43 100

74 14.7 17.9 26.9#





#29

Tetrahydrofuran

Concen: 0.257 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

ClientSampled :

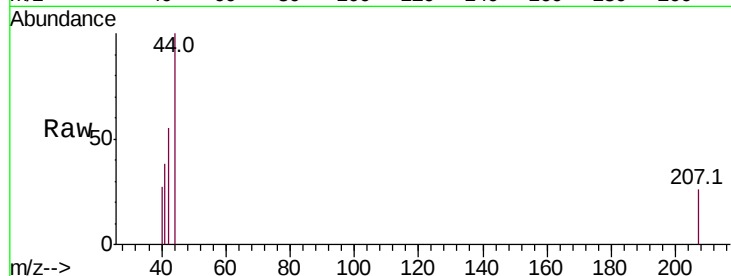
Tot Ion: 42 Resp: 367

Ion Ratio Lower Upper

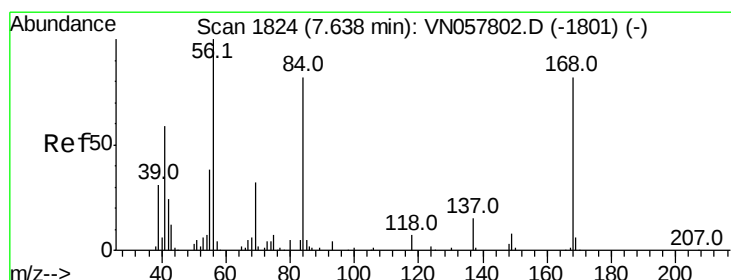
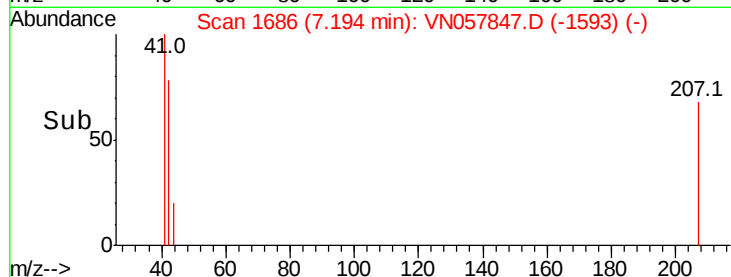
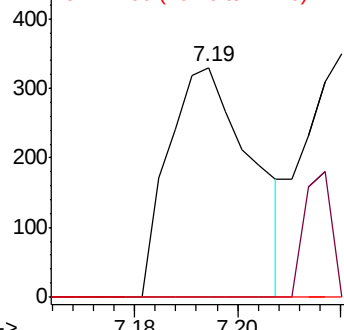
42 100

72 0.0 33.7 50.5#

71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

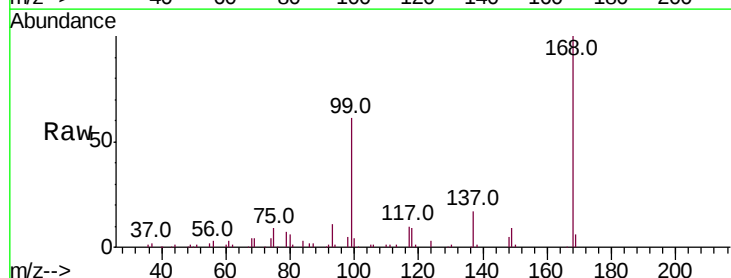
Tgt Ion: 56 Resp: 6727

Ion Ratio Lower Upper

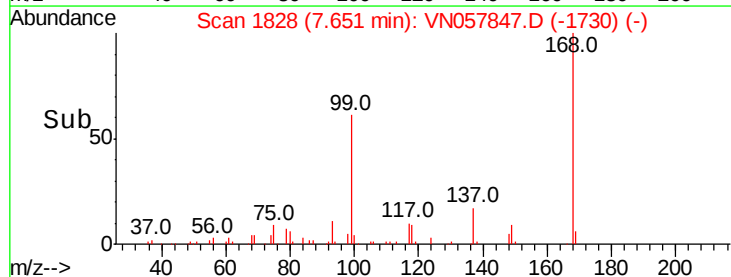
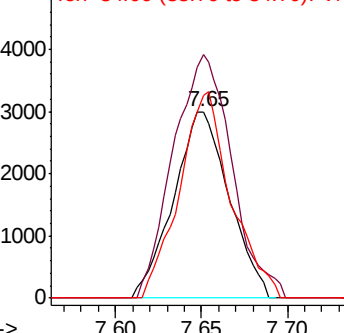
56 100

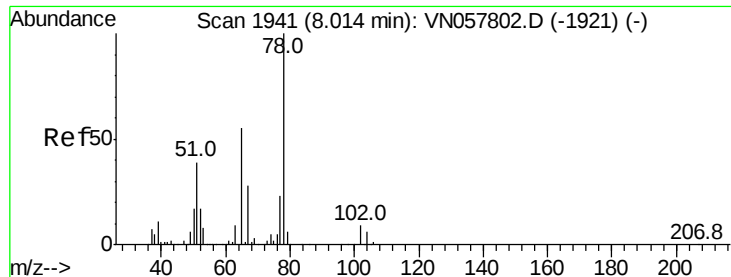
69 130.5 25.9 38.9#

84 108.6 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 59.642 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

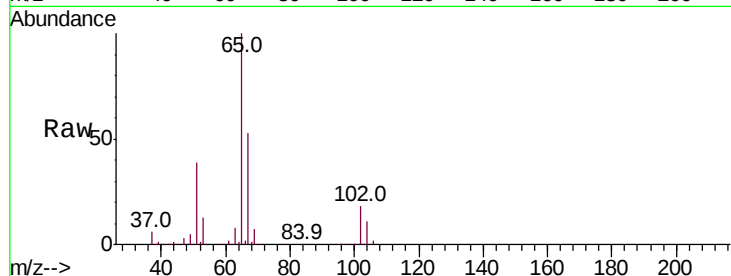
ClientSampled :

Tot Ion: 65 Resp: 291837

Ion Ratio Lower Upper

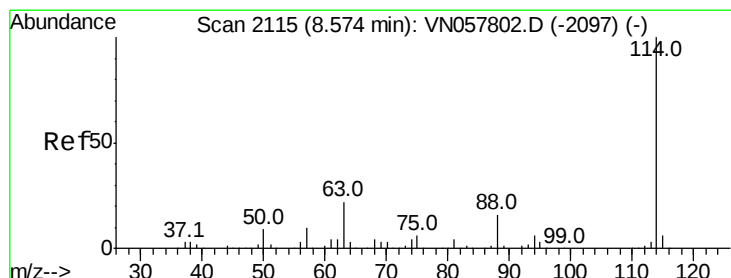
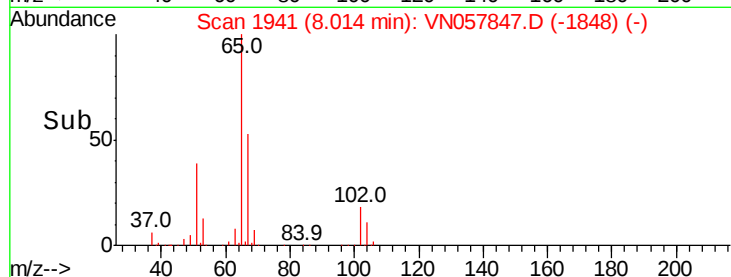
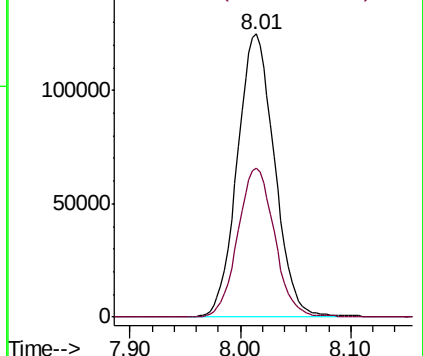
65 100

67 52.1 0.0 104.0



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: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

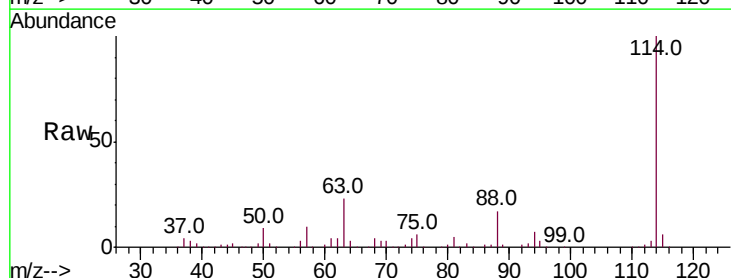
Tgt Ion: 114 Resp: 445795

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.0

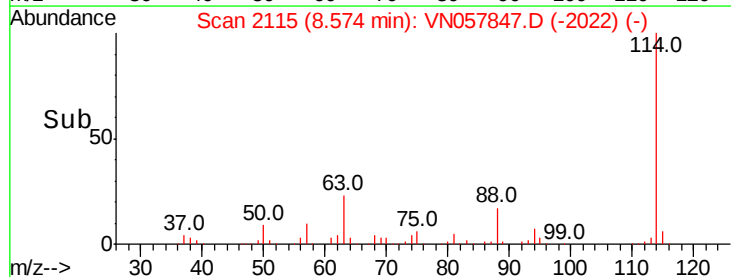
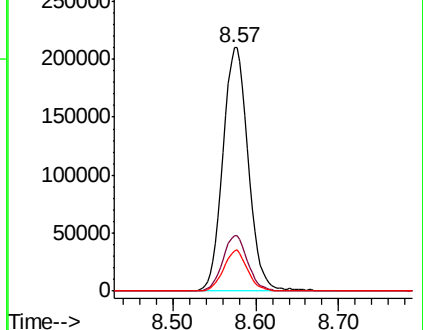
88 16.6 0.0 31.4

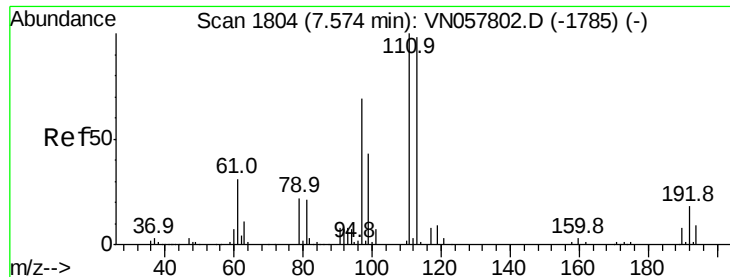


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

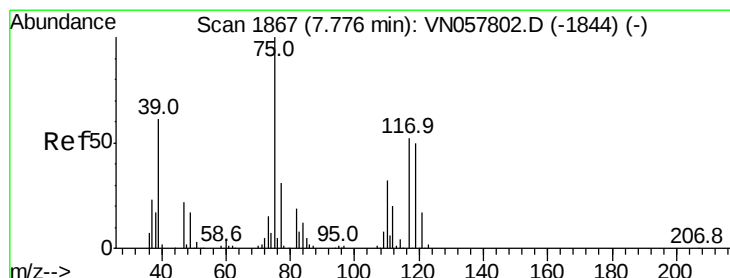
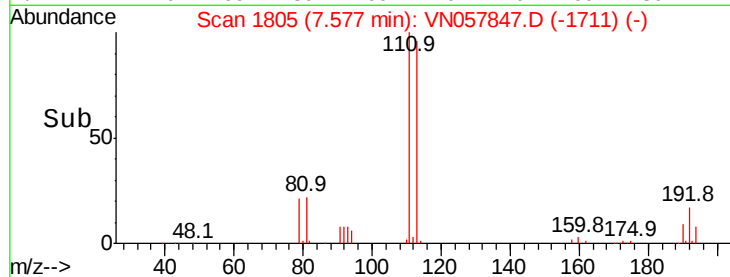
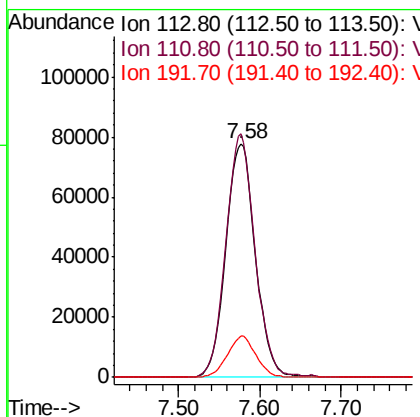
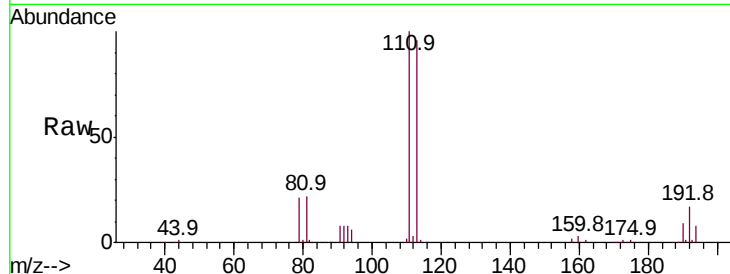




#35
 Dibromofluoromethane
 Concen: 48.270 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

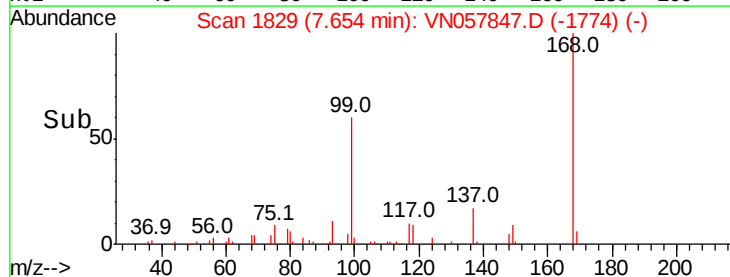
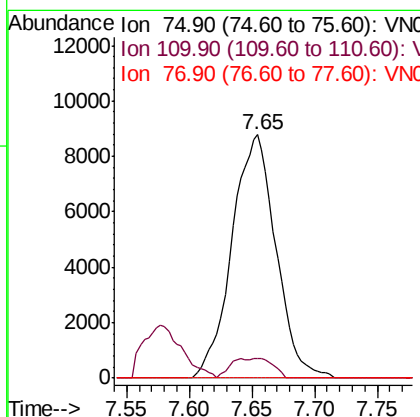
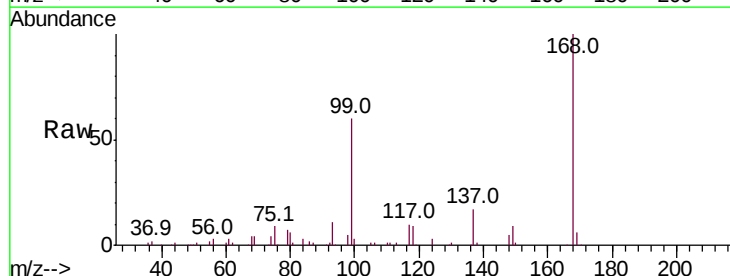
Instrument :
 MSVOA_N
 ClientSampled :

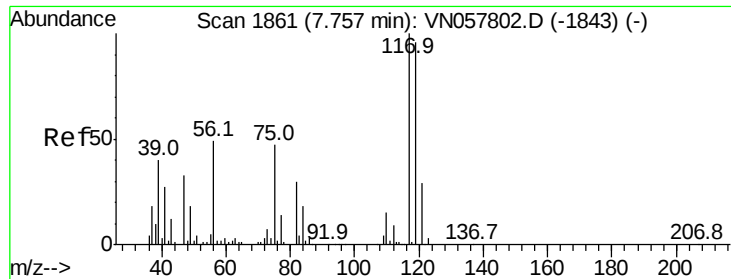
Tot Ion:113 Resp: 198606
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.3 121.9
 192 17.1 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.146 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

Tgt Ion: 75 Resp: 21433
 Ion Ratio Lower Upper
 75 100
 110 3.7 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.394 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

ClientSampled :

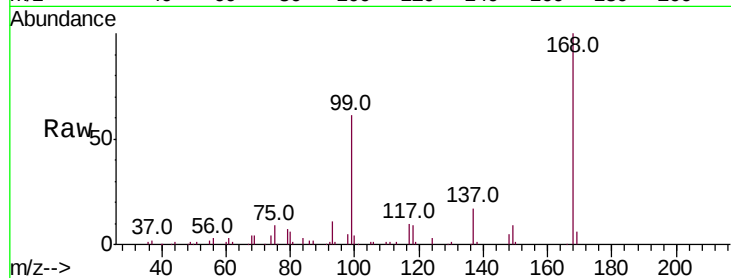
Tot Ion:117 Resp: 25460

Ion Ratio Lower Upper

117 100

119 5.6 76.9 115.3#

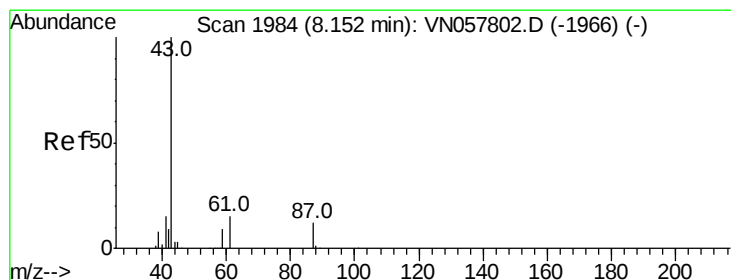
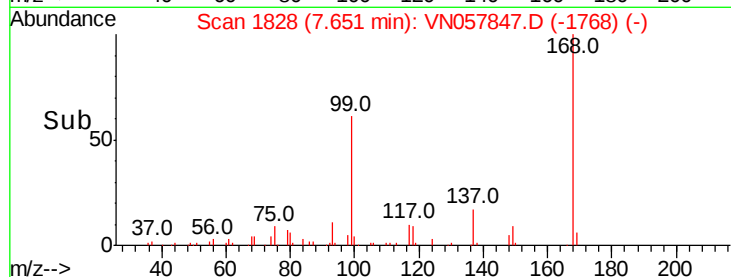
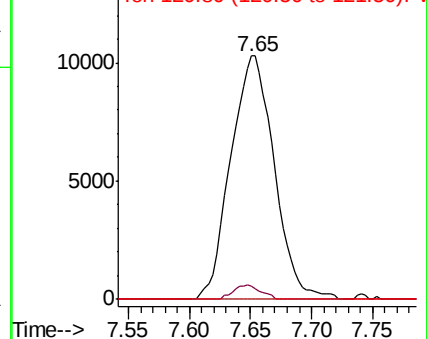
121 0.0 23.4 35.2#



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: 8.986 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

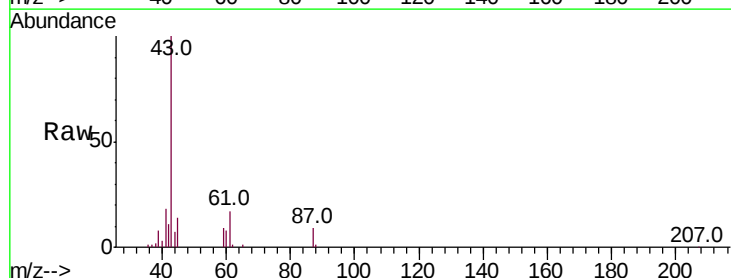
Tgt Ion: 43 Resp: 80724

Ion Ratio Lower Upper

43 100

61 15.2 20.1 30.1#

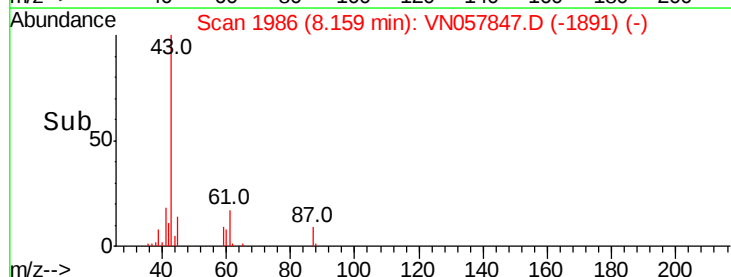
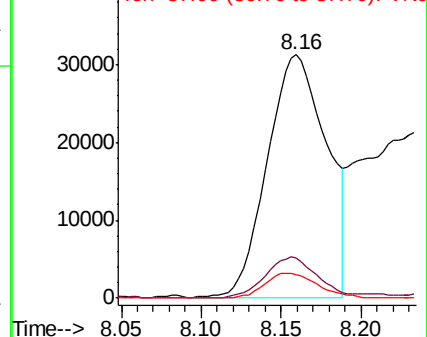
87 9.0 9.5 14.3#

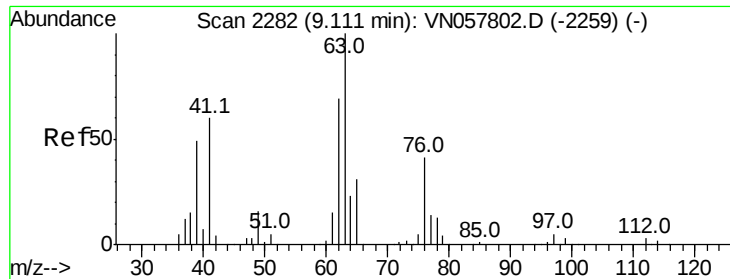


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

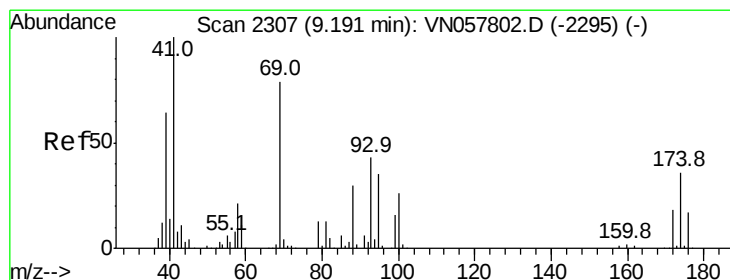
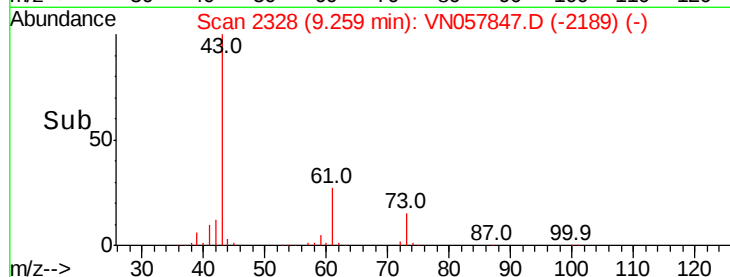
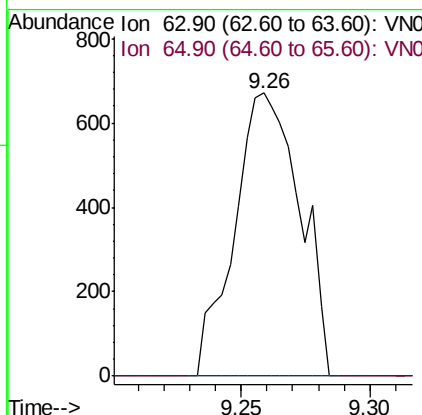
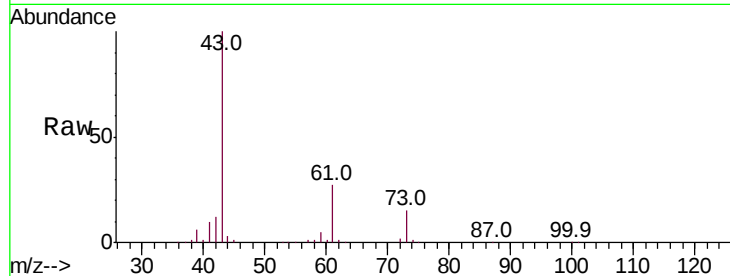




#45
 1,2-Dichloropropane
 Concen: 0.263 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

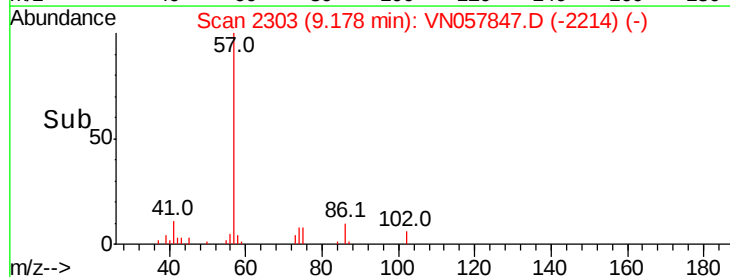
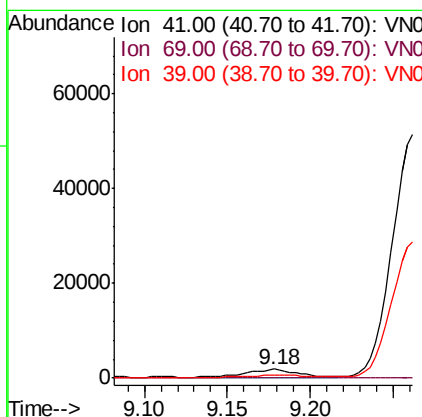
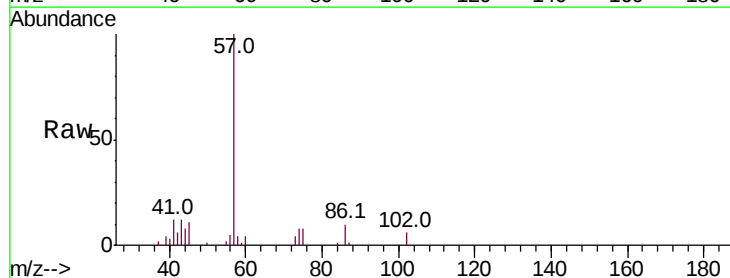
Instrument :
 MSVOA_N
 ClientSampleId :

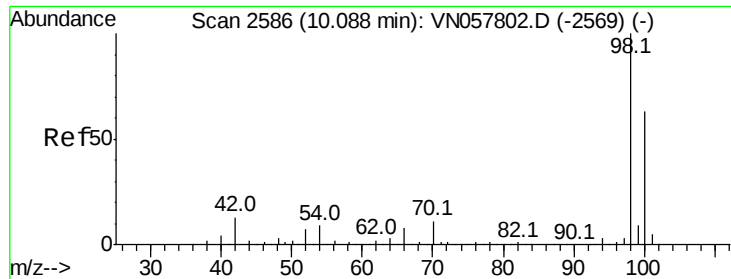
Tot Ion: 63 Resp: 1193
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.780 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.01 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

Tgt Ion: 41 Resp: 3555
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 44.561 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

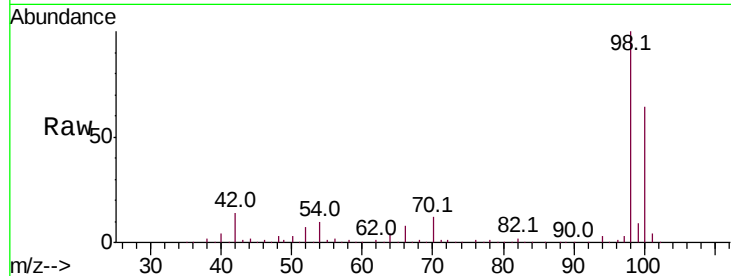
ClientSampled :

Tot Ion: 98 Resp: 711852

Ion Ratio Lower Upper

98 100

100 63.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

400000

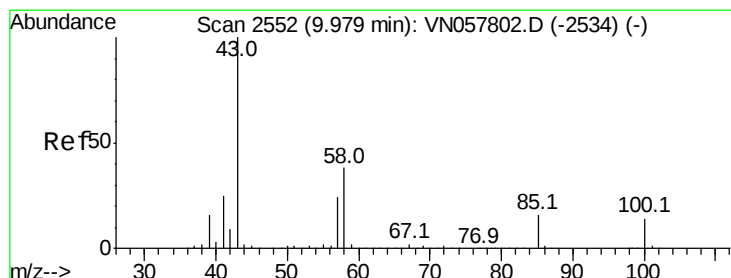
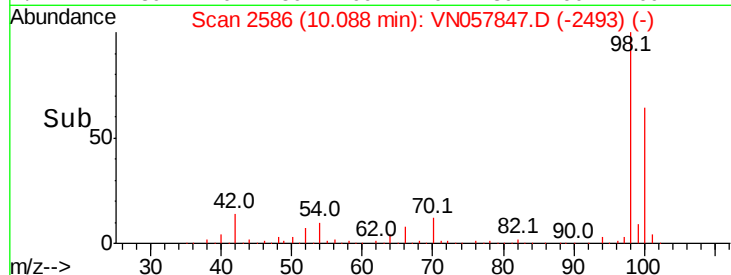
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.831 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057847.D

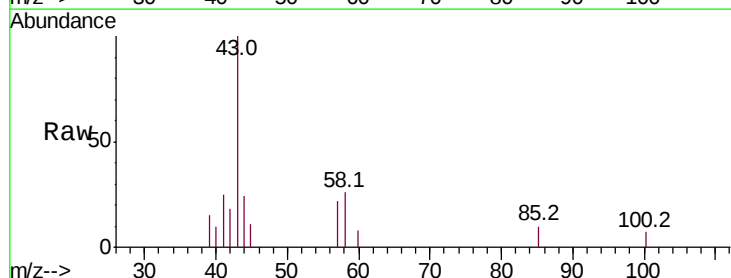
Acq: 10 Sep 2019 9:26

Tgt Ion: 43 Resp: 4419

Ion Ratio Lower Upper

43 100

58 50.2 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

12000

10000

8000

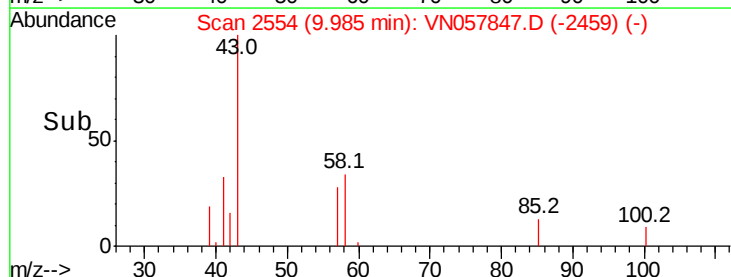
6000

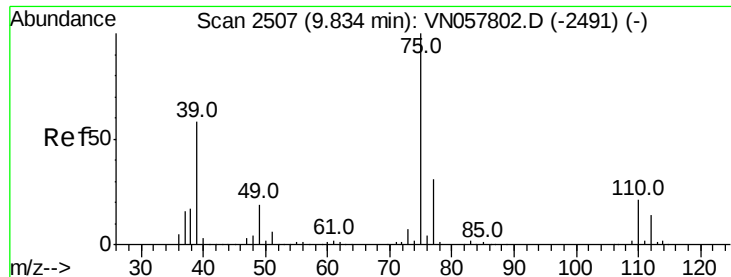
4000

2000

0

Time-->



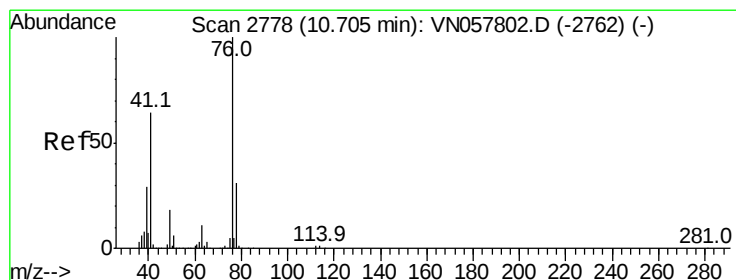
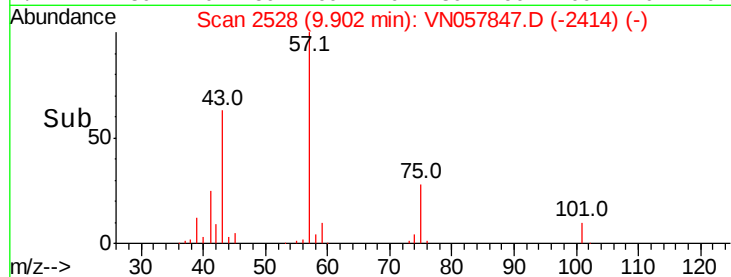
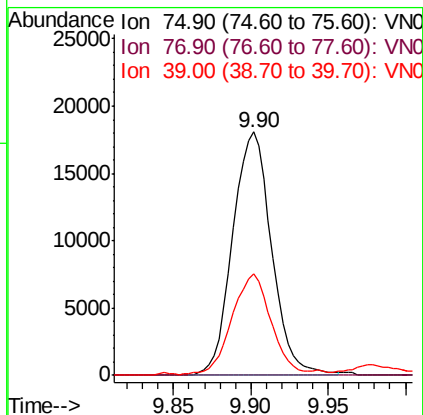
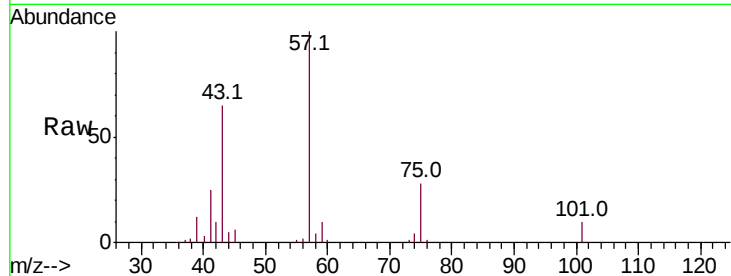


#54

cis-1,3-Dichloropropene
 Concen: 4.978 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

Instrument :
 MSVOA_N
 ClientSampleId :

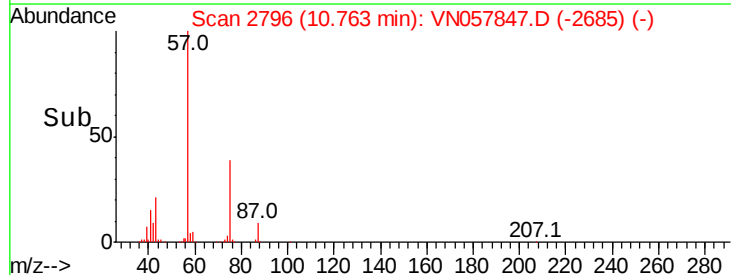
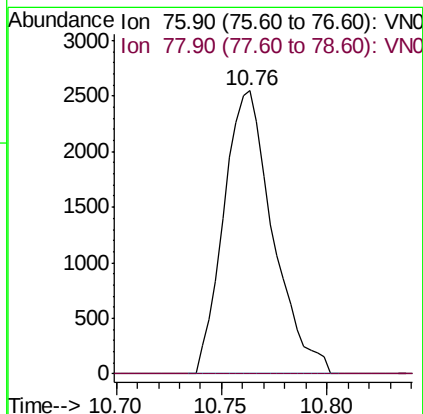
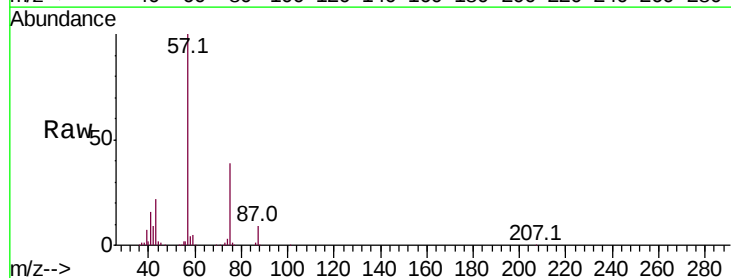
Tot Ion: 75 Resp: 31633
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 40.7 46.2 69.4#

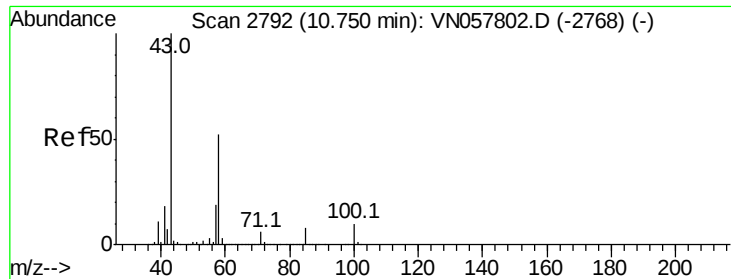


#57

1,3-Dichloropropane
 Concen: 0.576 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

Tgt Ion: 76 Resp: 4123
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 17.575 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

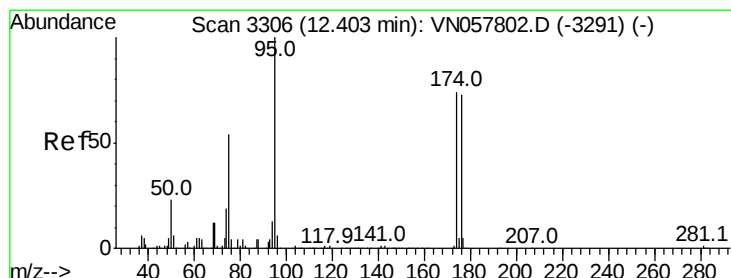
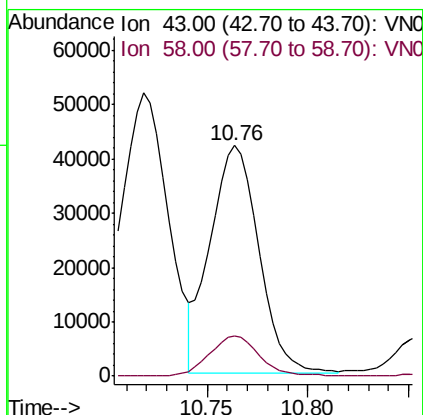
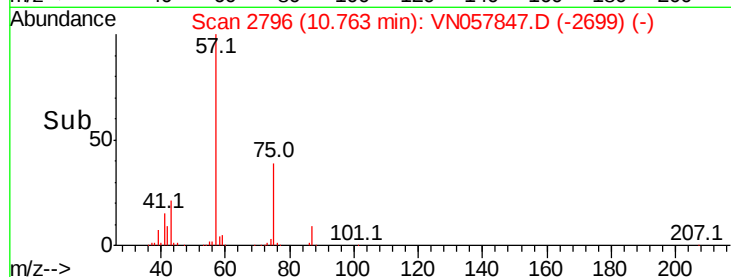
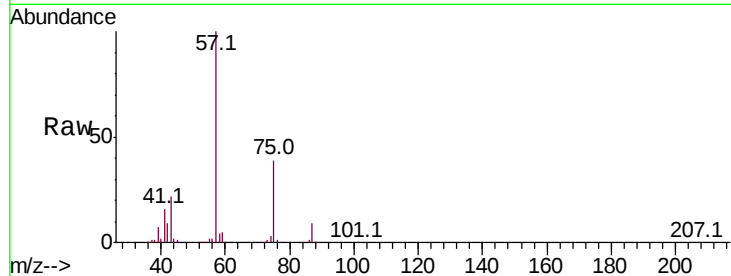
ClientSampleId :

Tot Ion: 43 Resp: 70027

Ion Ratio Lower Upper

43 100

58 18.2 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 38.102 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

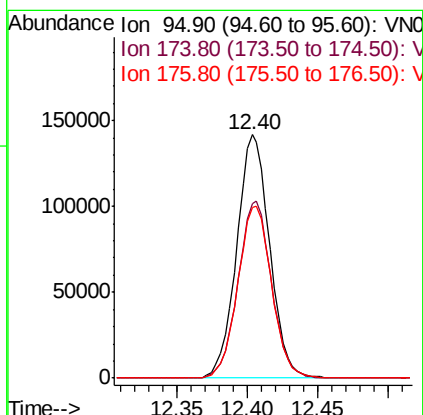
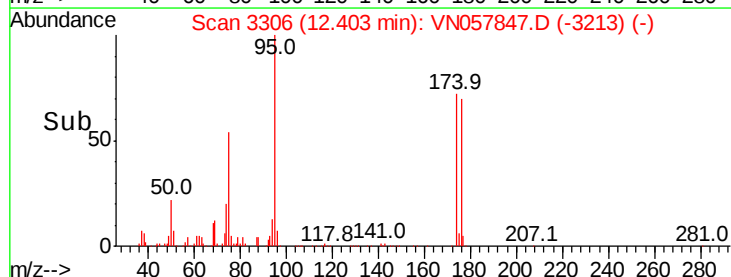
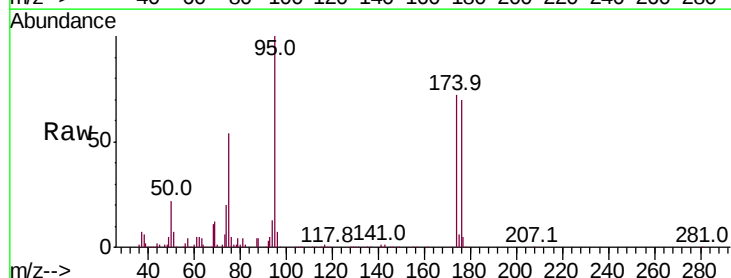
Tgt Ion: 95 Resp: 231957

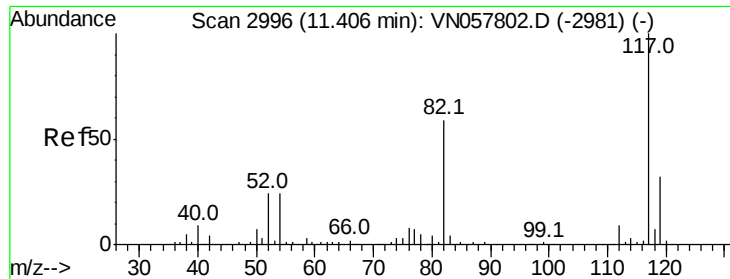
Ion Ratio Lower Upper

95 100

174 74.0 0.0 150.2

176 72.9 0.0 146.0

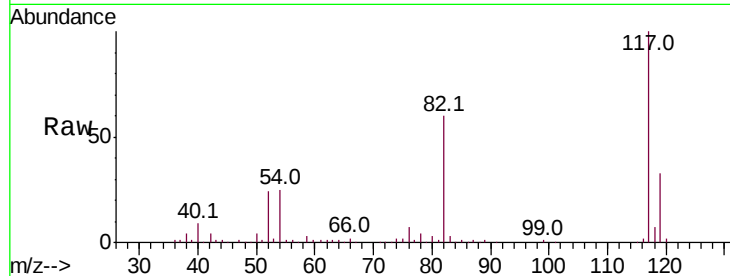




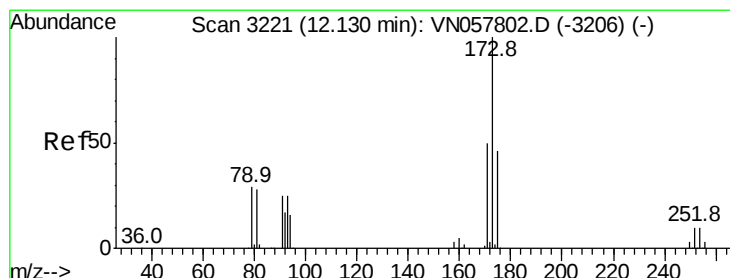
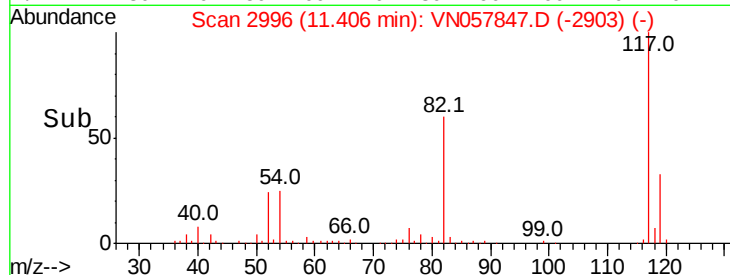
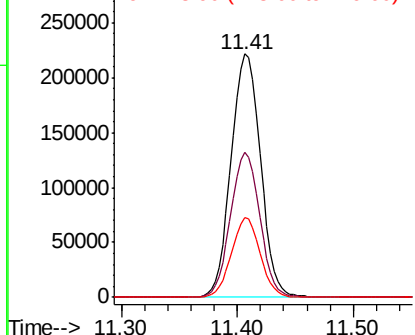
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057847.D
Acq: 10 Sep 2019 9:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 391503
Ion Ratio Lower Upper
117 100
82 59.6 47.2 70.8
119 32.7 25.3 37.9

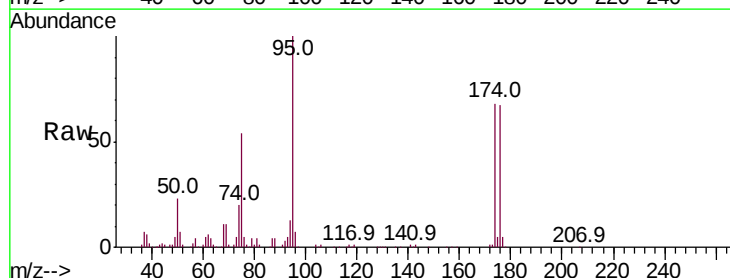


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

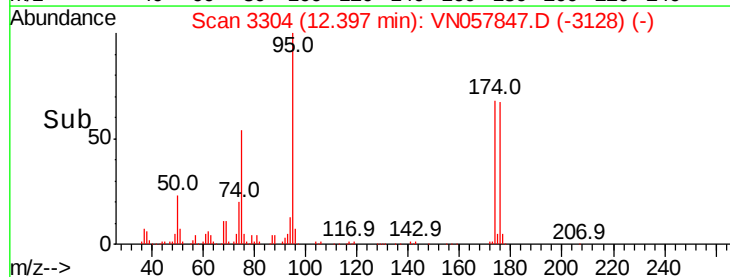
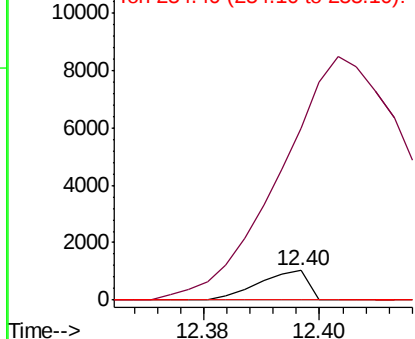


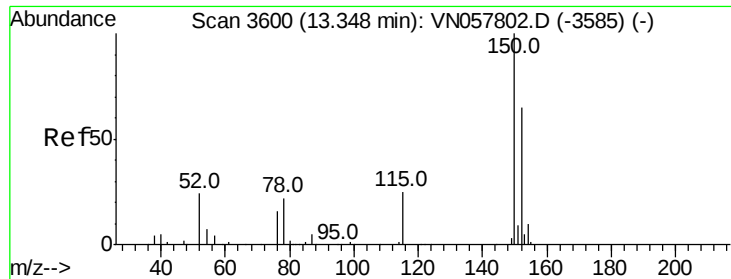
#71
Bromoform
Concen: 0.271 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN057847.D
Acq: 10 Sep 2019 9:26

Tgt Ion:173 Resp: 601
Ion Ratio Lower Upper
173 100
175 1964.1 23.5 70.6#
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# 3600

Delta R.T. 0.00 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

ClientSampleId :

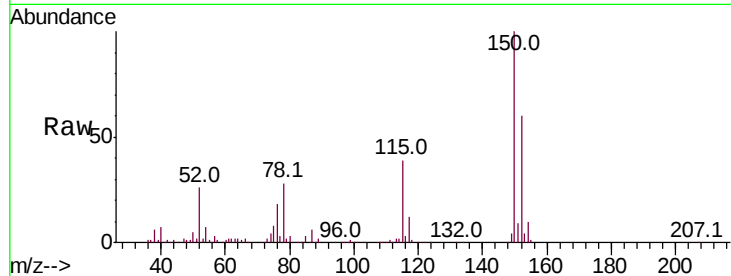
Tot Ion:152 Resp: 184410

Ion Ratio Lower Upper

152 100

115 62.2 30.3 91.0

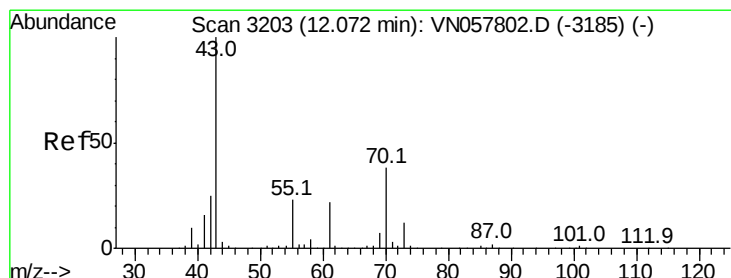
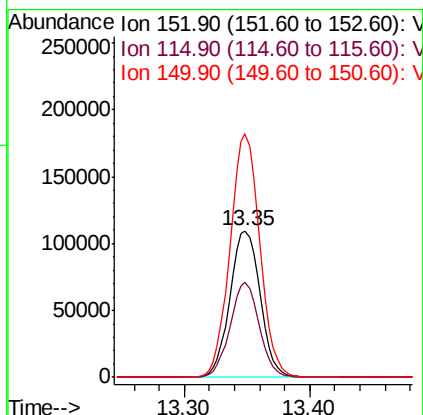
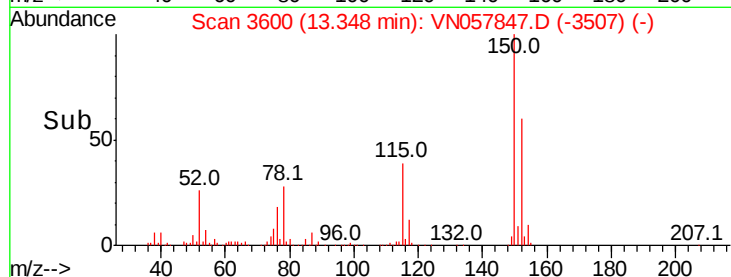
150 162.1 0.0 352.4



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: 0.507 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Tgt Ion: 43 Resp: 3155

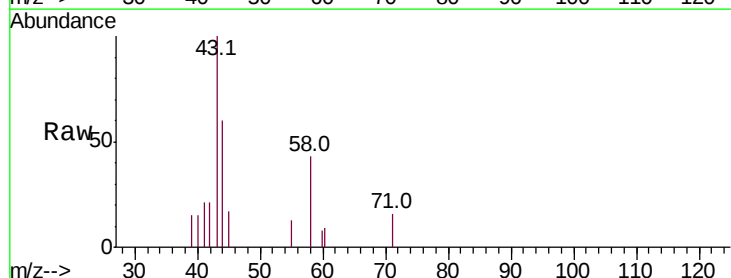
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.6 18.6 27.8#

61 0.0 17.4 26.2#

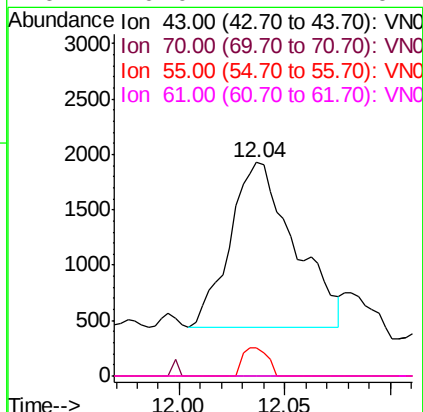
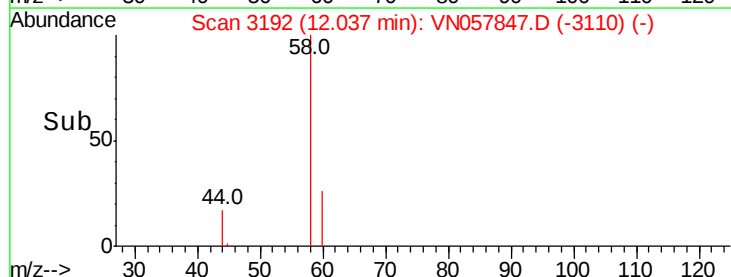


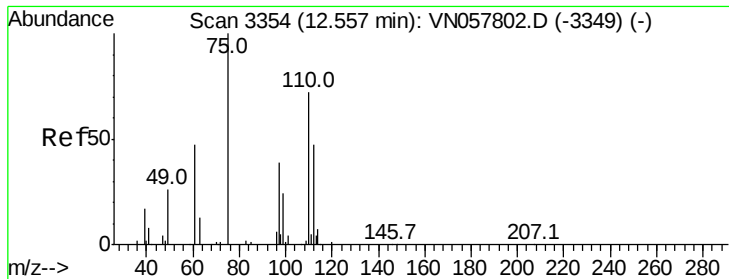
Abundance Ion 43.00 (42.70 to 43.70): V

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

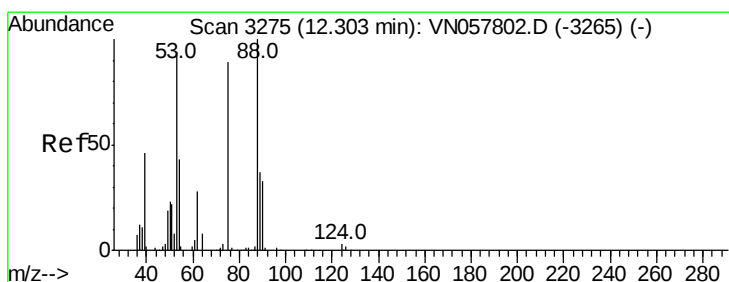
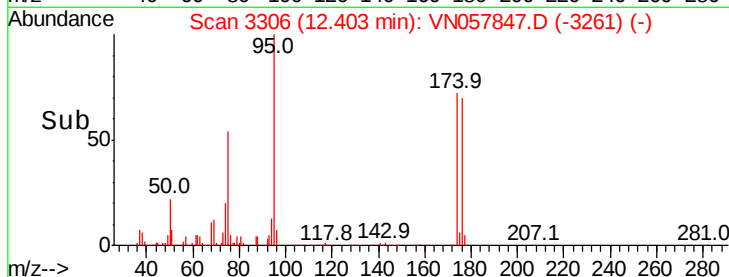
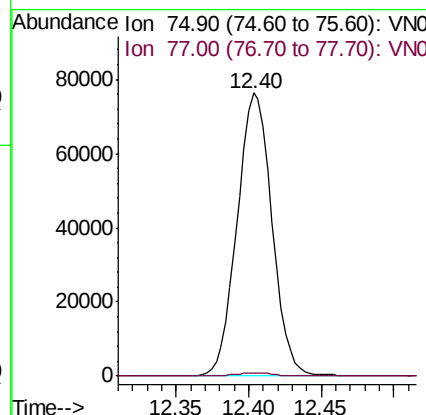
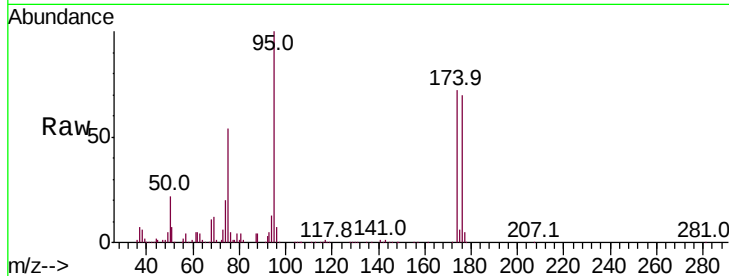




#76
 1,2,3-Trichloropropane
 Concen: 30.623 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

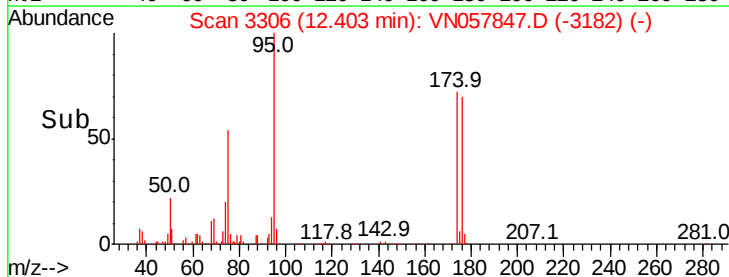
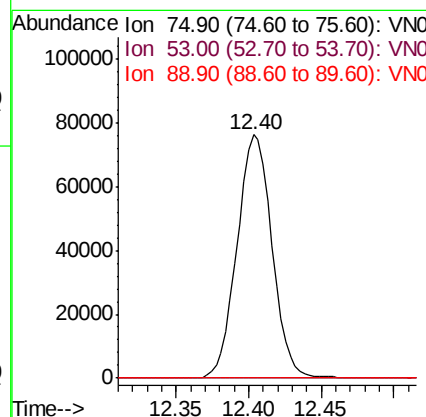
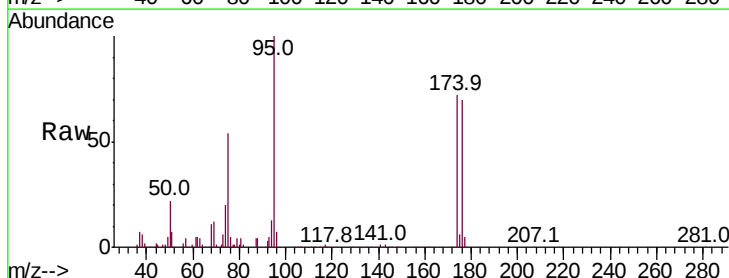
Instrument :
 MSVOA_N
 ClientSampleId :

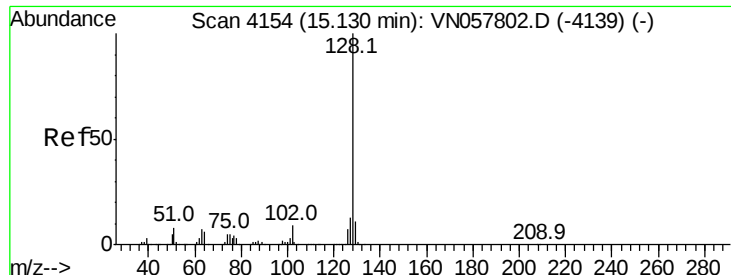
Tot Ion: 75 Resp: 127748
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.762 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057847.D
 Acq: 10 Sep 2019 9:26

Tgt Ion: 75 Resp: 127748
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057847.D

Acq: 10 Sep 2019 9:26

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 475

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#

