

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057842.D
 Acq On : 10 Sep 2019 7:36
 Operator : JC/SP
 Sample : K4622-27
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 08:44:57 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	296833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	507320	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	468936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	238543	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	329288	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	
35) Dibromofluoromethane	7.58	113	225873	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	10.09	98	935281	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
62) 4-Bromofluorobenzene	12.40	95	304311	43.92	ug/l	0.00
Spiked Amount			Recovery	=	87.84%	

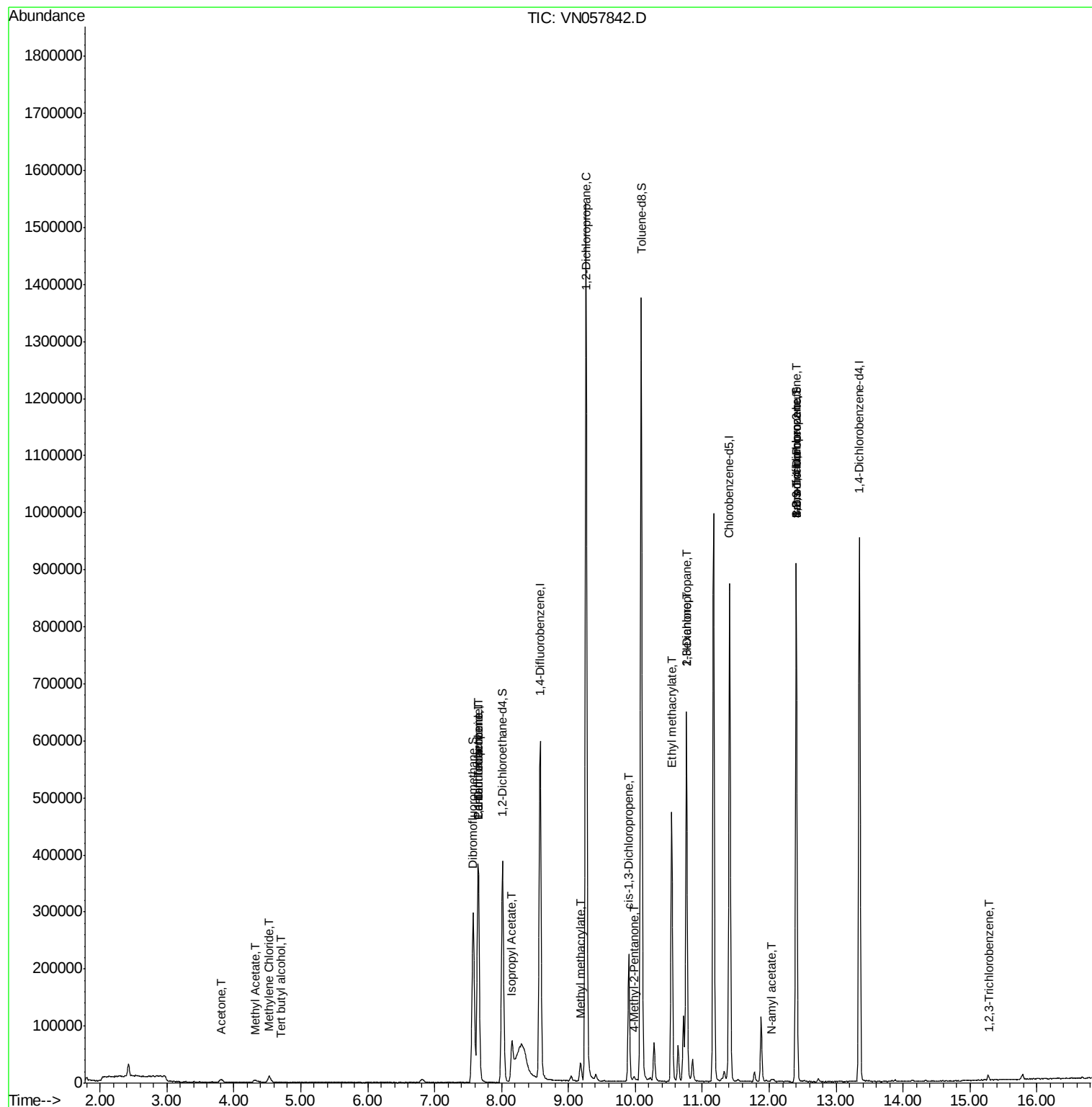
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	250	Below Cal	#	2
11) Tert butyl alcohol	4.70	59	287	0.394	ug/l #	72
16) Acetone	3.81	43	7892	4.004	ug/l	93
18) Methyl Acetate	4.32	43	7855	1.495	ug/l #	72
20) Methylene Chloride	4.53	84	7977	0.918	ug/l	97
31) Cyclohexane	7.65	56	7853	Below Cal	#	14
36) 1,1-Dichloropropene	7.65	75	26222	4.457	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30555	5.688	ug/l #	17
43) Isopropyl Acetate	8.15	43	100903	9.871	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1871	0.363	ug/l #	44
48) Methyl methacrylate	9.17	41	4780	0.922	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5472	0.905	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	38195	5.282	ug/l #	69
56) Ethyl methacrylate	10.54	69	1732	0.243	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6257	0.768	ug/l #	43
59) 2-Hexanone	10.76	43	98215	21.661	ug/l #	53
71) Bromoform	12.40	173	2187	0.824	ug/l #	1
74) N-amyl acetate	12.03	43	4465	0.554	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	165198	30.613	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165198	107.729	ug/l #	6
95) Naphthalene	15.14	128	937	Below Cal	#	86
96) 1,2,3-Trichlorobenzene	15.29	180	30	1.004	ug/l #	12

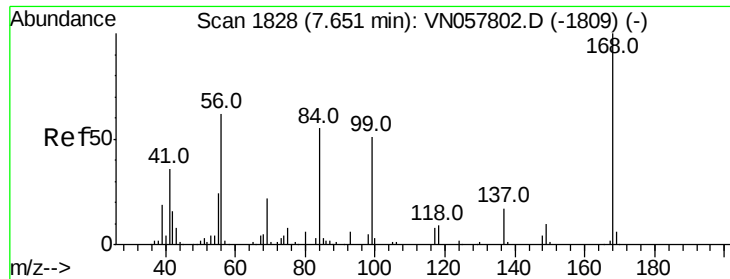
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

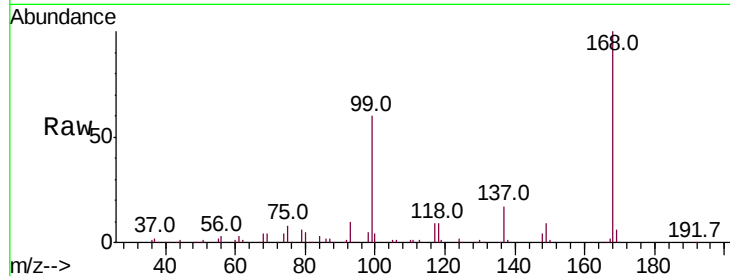
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 296833

Ion Ratio Lower Upper

168 100

99 60.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

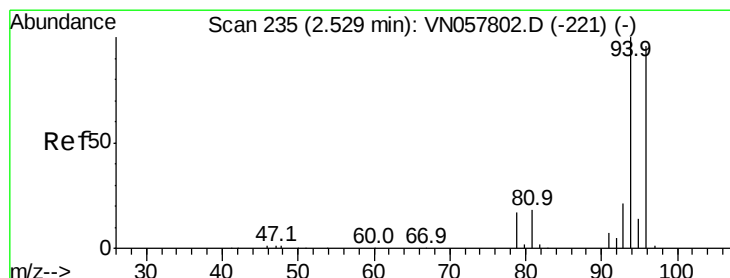
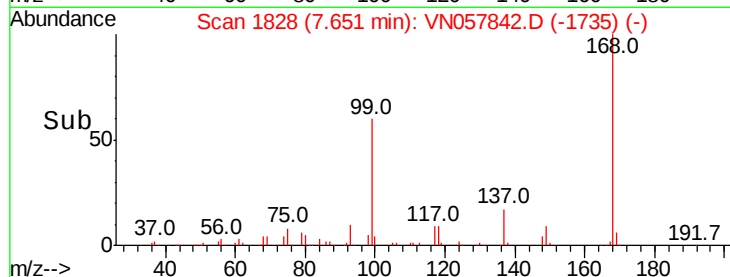
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057842.D

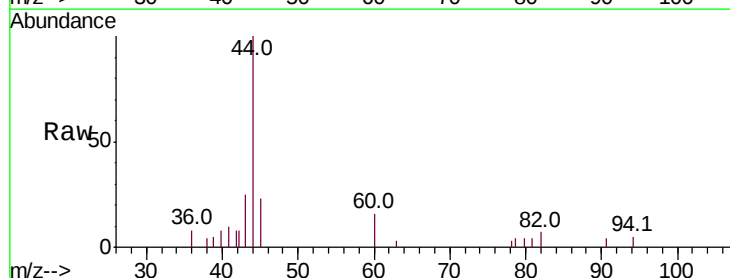
Acq: 10 Sep 2019 7:36

Tgt Ion: 94 Resp: 250

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

300

250

200

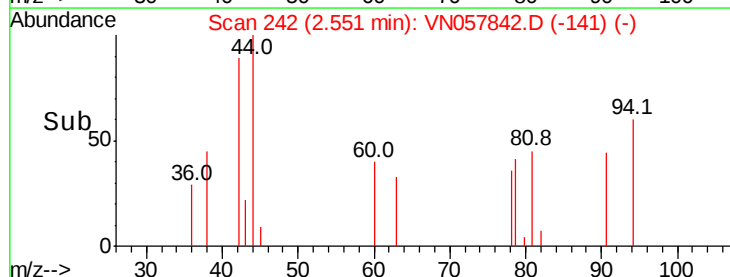
150

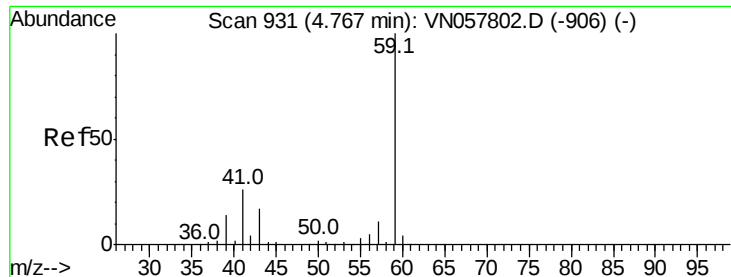
100

50

0

Time-->

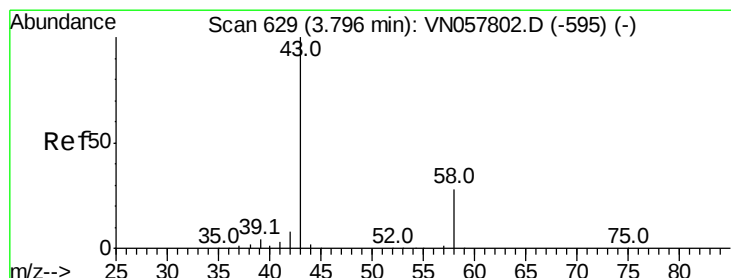
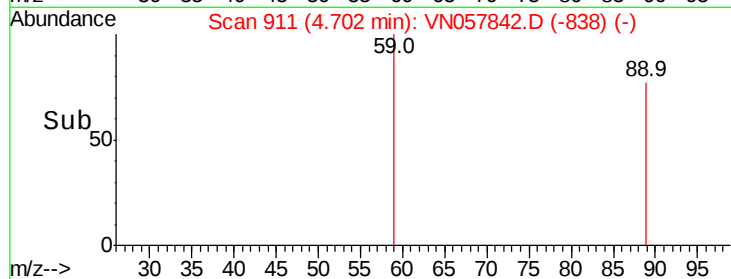
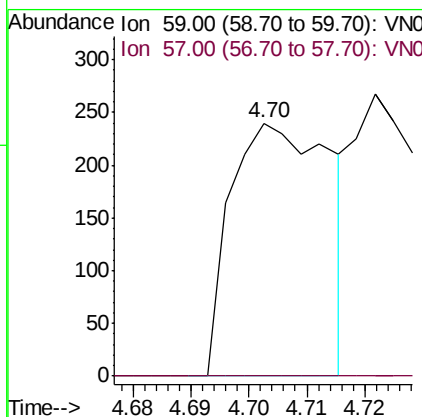
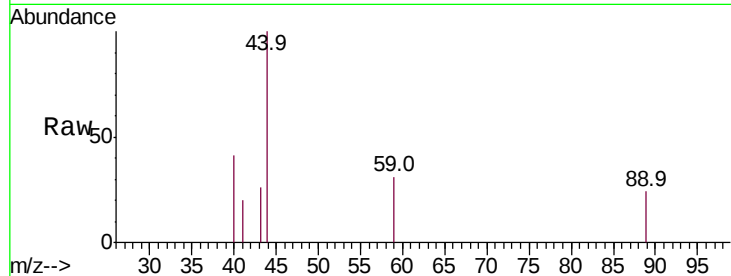




#11
Tert butyl alcohol
Concen: 0.394 ug/l
RT: 4.70 min Scan# 911
Delta R.T. -0.06 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

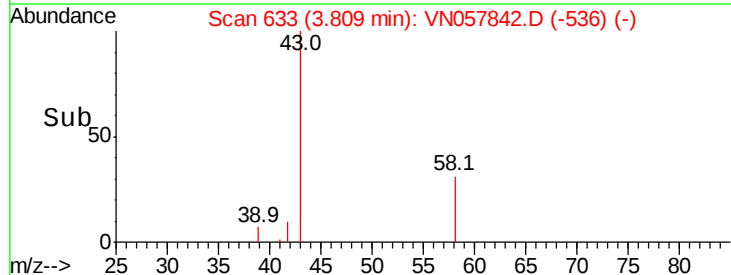
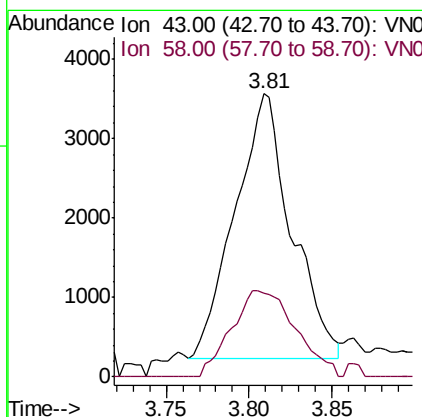
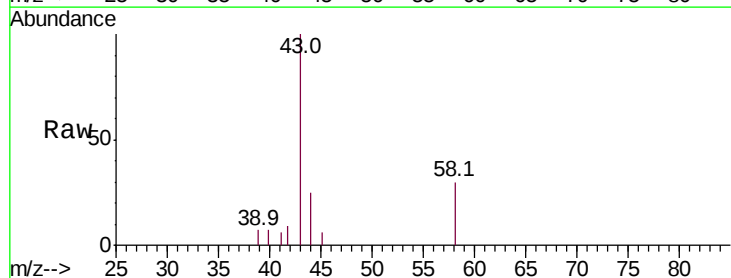
Instrument :
MSVOA_N
ClientSampled :

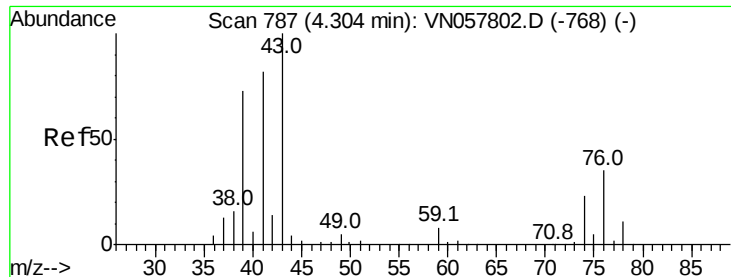
Tot Ion: 59 Resp: 287
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 4.004 ug/l
RT: 3.81 min Scan# 633
Delta R.T. 0.01 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

Tgt Ion: 43 Resp: 7892
Ion Ratio Lower Upper
43 100
58 31.6 22.2 33.2

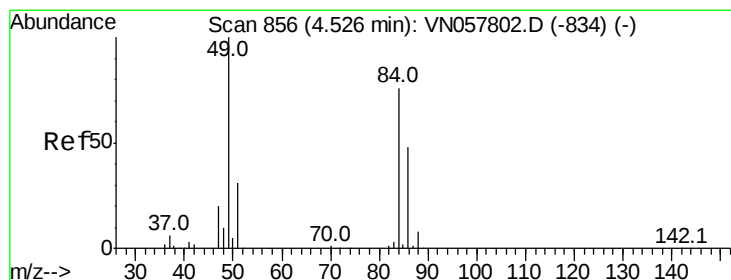
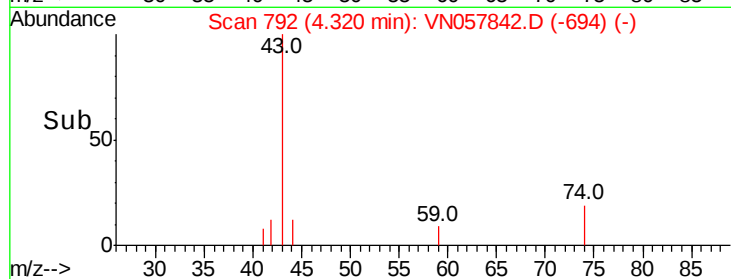
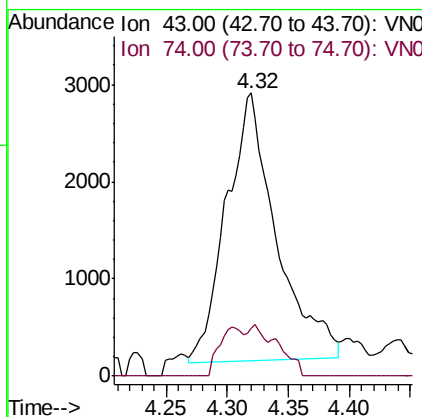
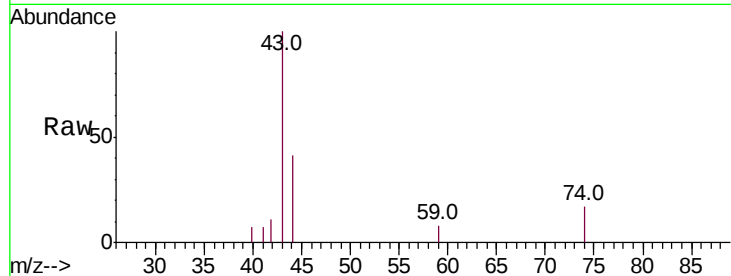




#18
Methvl Acetate
Concen: 1.495 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

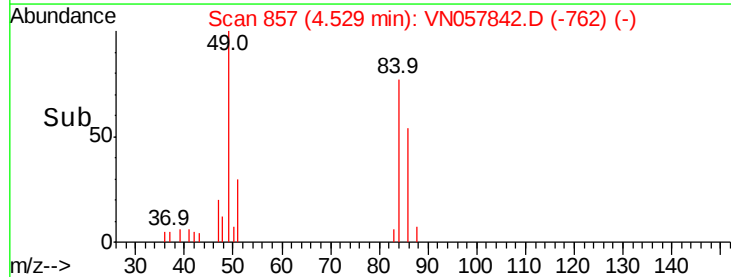
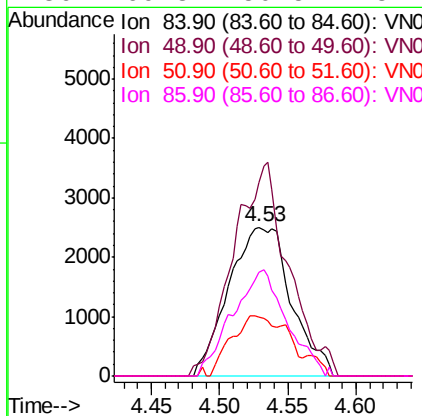
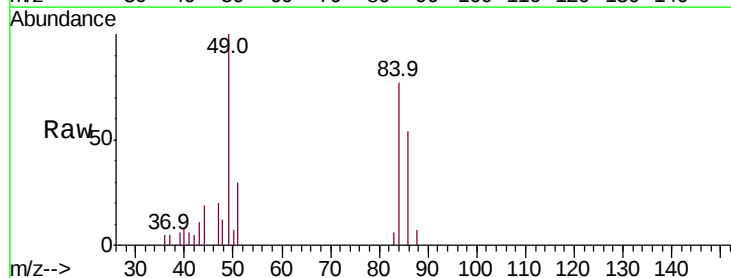
Instrument :
MSVOA_N
ClientSampleId :

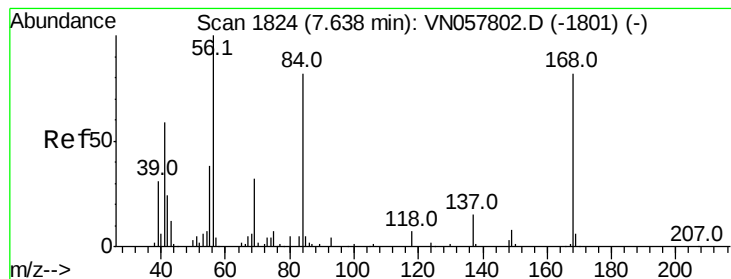
Tot Ion: 43 Resp: 7855
Ion Ratio Lower Upper
43 100
74 8.9 17.9 26.9#



#20
Methylene Chloride
Concen: 0.918 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

Tgt Ion: 84 Resp: 7977
Ion Ratio Lower Upper
84 100
49 129.7 104.8 157.2
51 39.5 33.0 49.4
86 69.8 50.5 75.7





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :
MSVOA_N
ClientSampled :

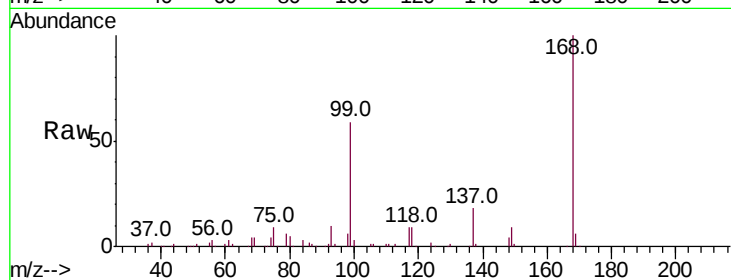
Tot Ion: 56 Resp: 7853

Ion Ratio Lower Upper

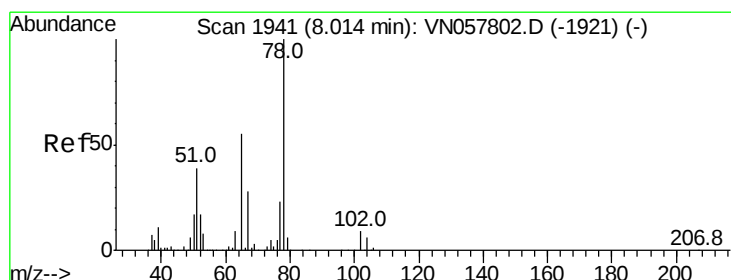
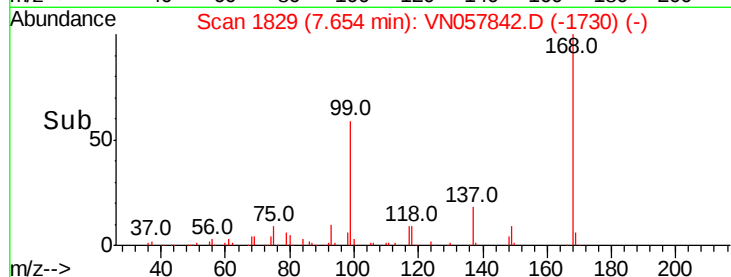
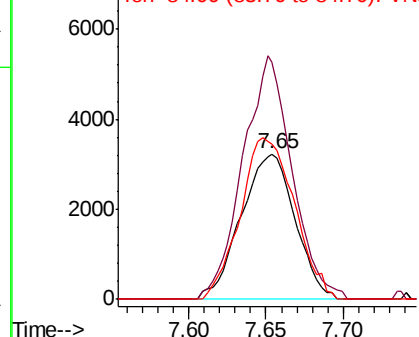
56 100

69 162.6 25.9 38.9#

84 107.0 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 54.771 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057842.D

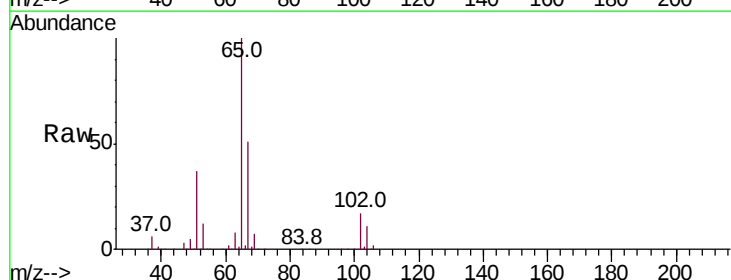
Acq: 10 Sep 2019 7:36

Tgt Ion: 65 Resp: 329288

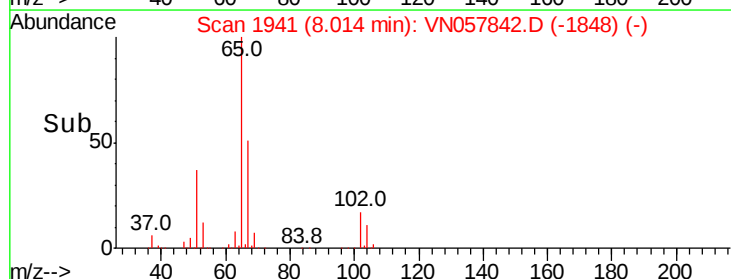
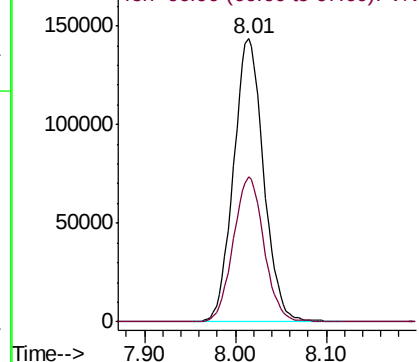
Ion Ratio Lower Upper

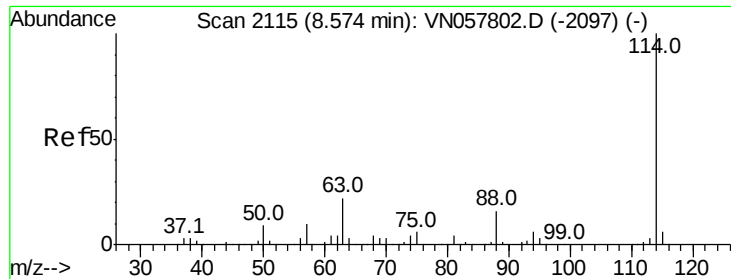
65 100

67 52.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

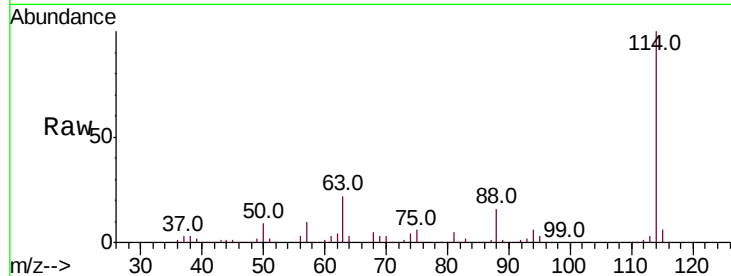




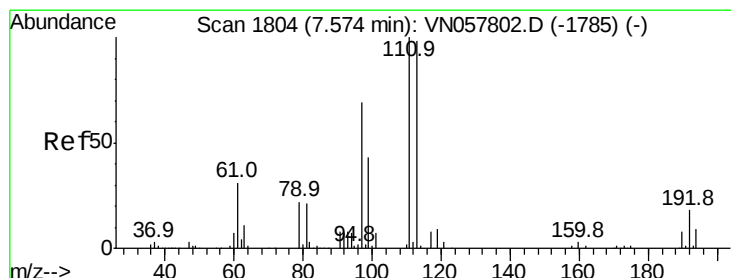
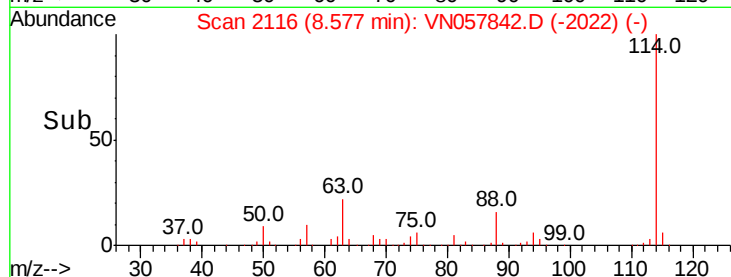
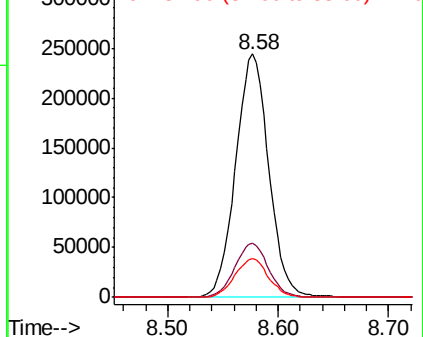
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057842.D
 Acq: 10 Sep 2019 7:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	15.7	0.0	31.4

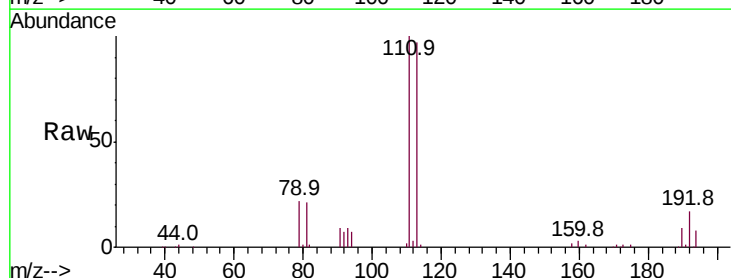


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

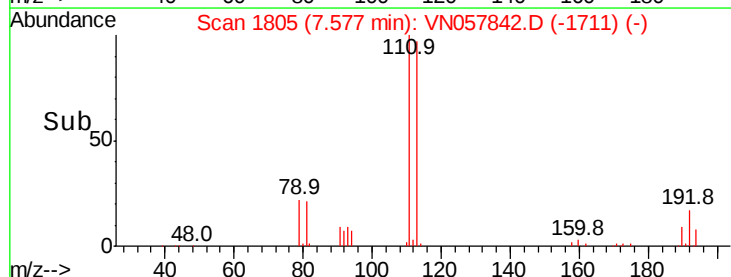
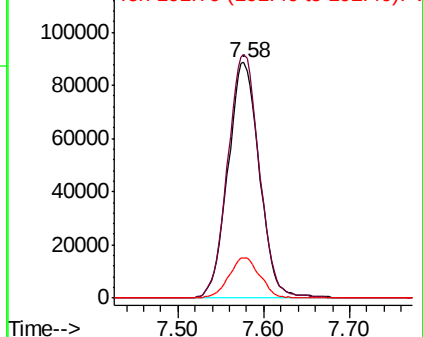


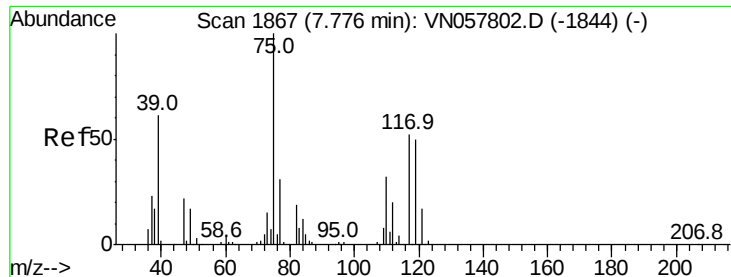
#35
 Dibromofluoromethane
 Concen: 48.239 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057842.D
 Acq: 10 Sep 2019 7:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.3	121.9
192	16.8	14.6	22.0



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

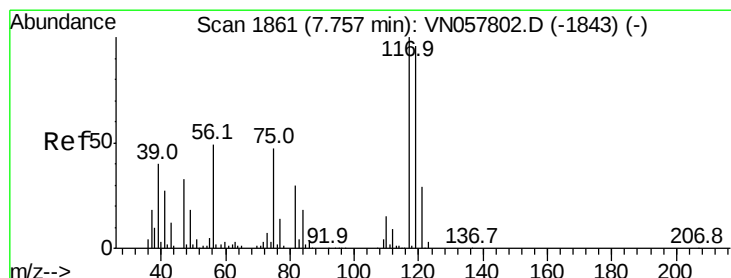
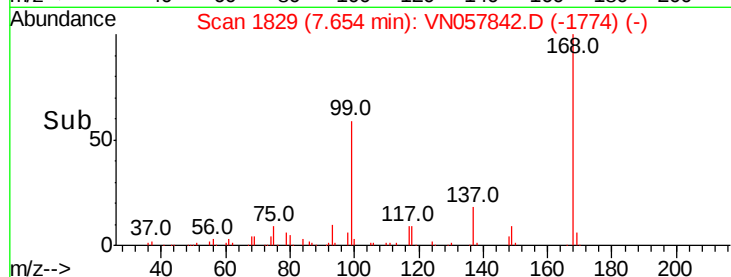
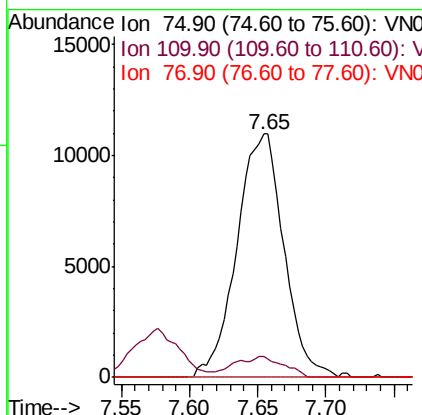
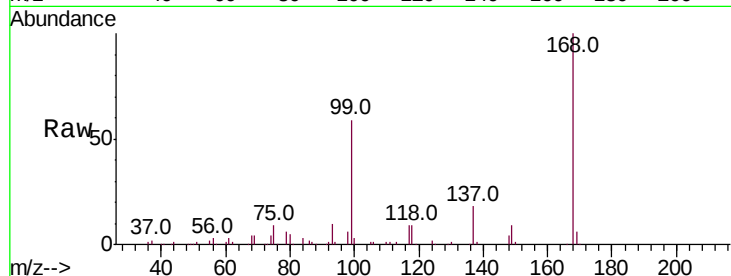




#36
 1,1-Dichloropropene
 Concen: 4.457 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057842.D
 Acq: 10 Sep 2019 7:36

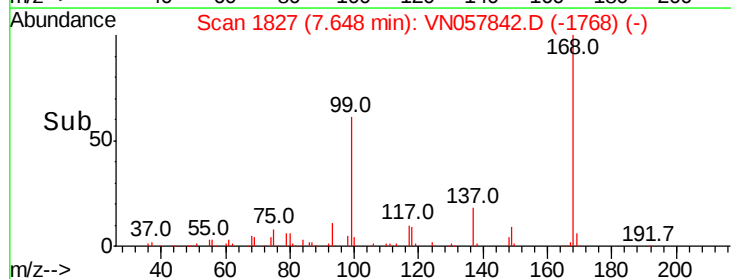
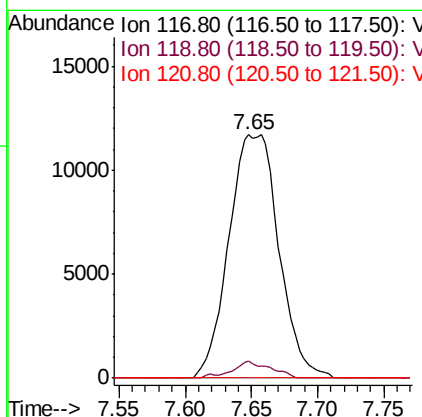
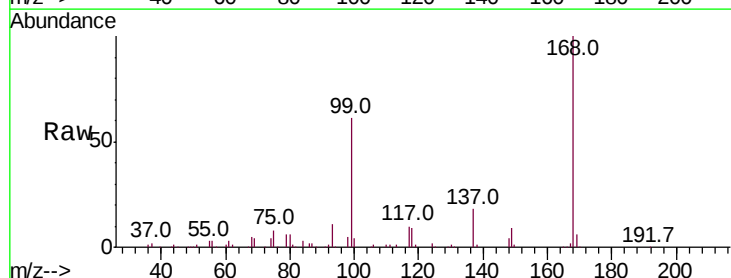
Instrument :
 MSVOA_N
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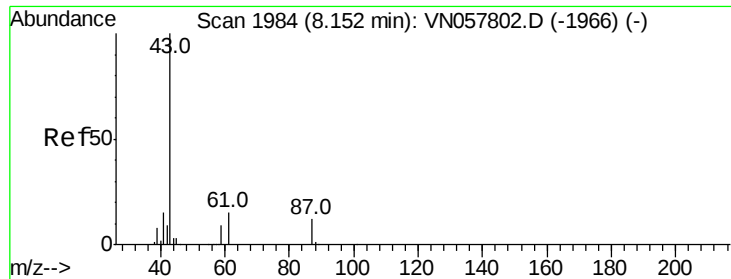
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.688 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN057842.D
 Acq: 10 Sep 2019 7:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 9.871 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :
MSVOA_N
ClientSampled :

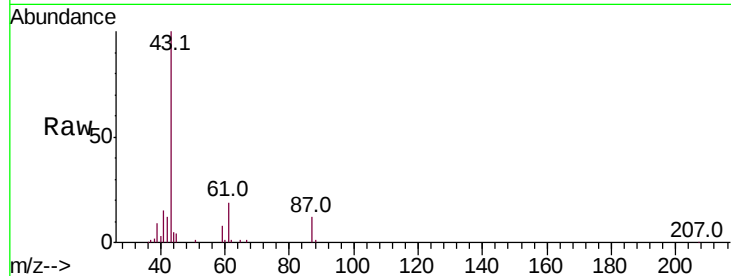
Tot Ion: 43 Resp: 100903

Ion Ratio Lower Upper

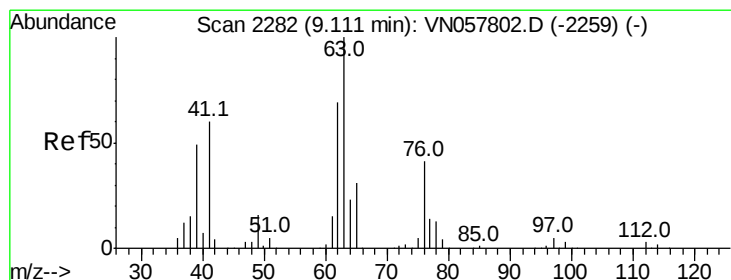
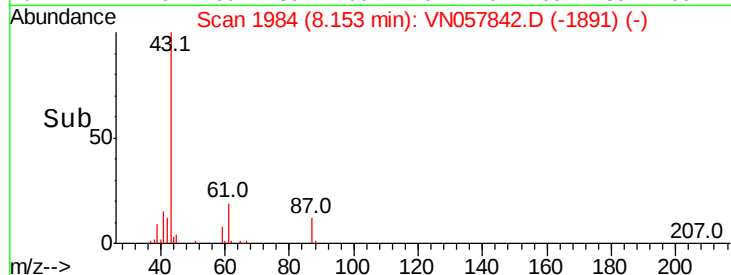
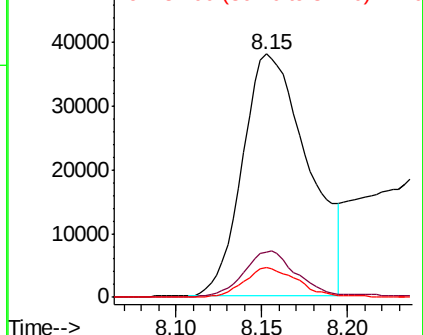
43 100

61 15.4 20.1 30.1#

87 10.0 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.363 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057842.D

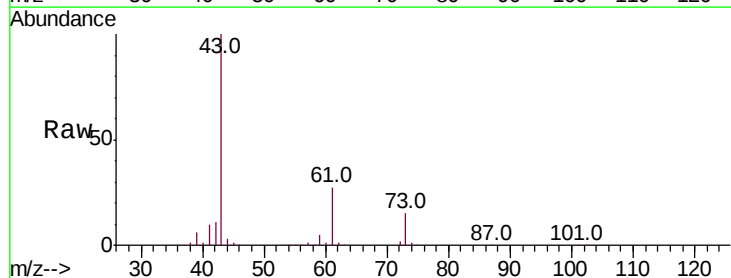
Acq: 10 Sep 2019 7:36

Tgt Ion: 63 Resp: 1871

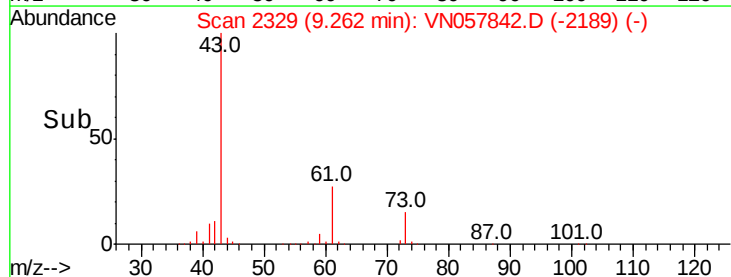
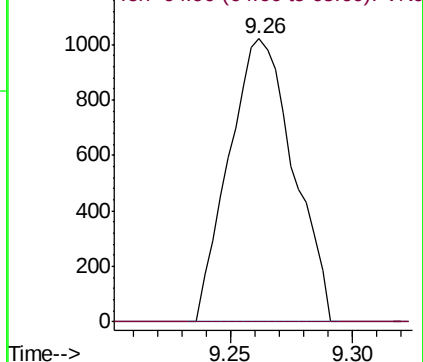
Ion Ratio Lower Upper

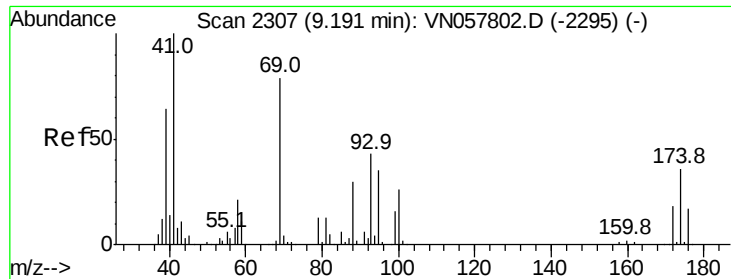
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

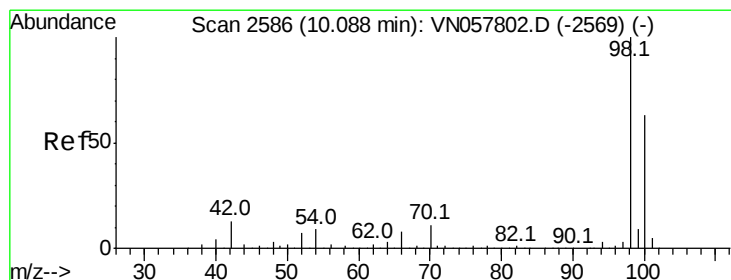
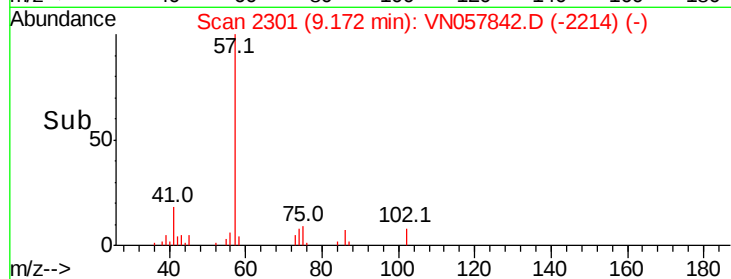
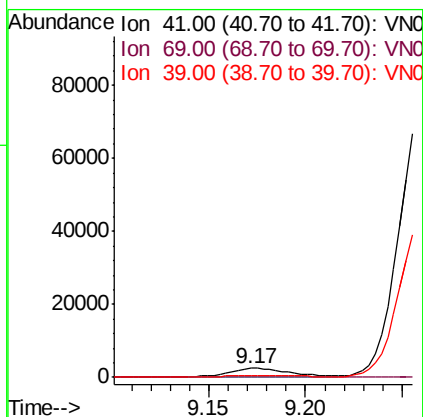
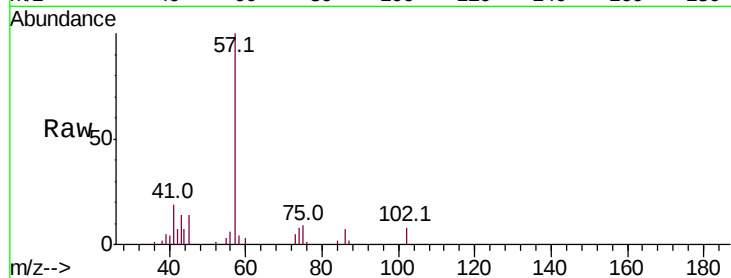




#48
Methvl methacrylate
Concen: 0.922 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

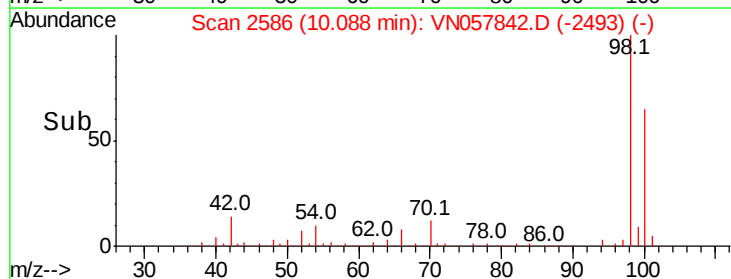
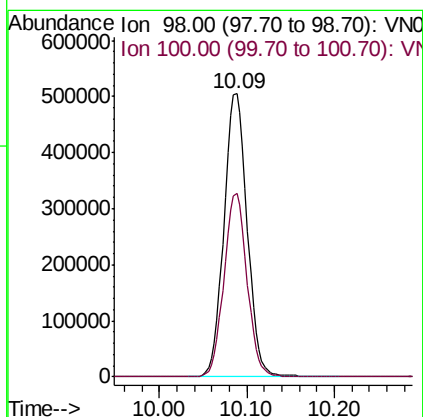
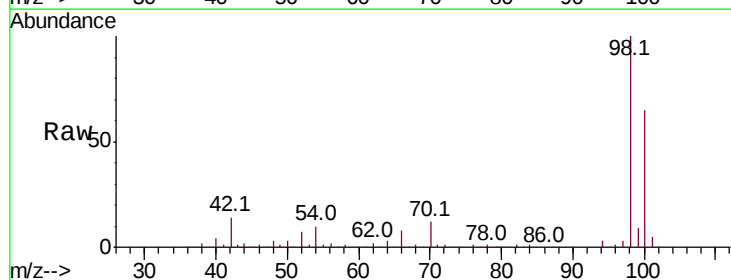
Instrument :
MSVOA_N
ClientSampleId :

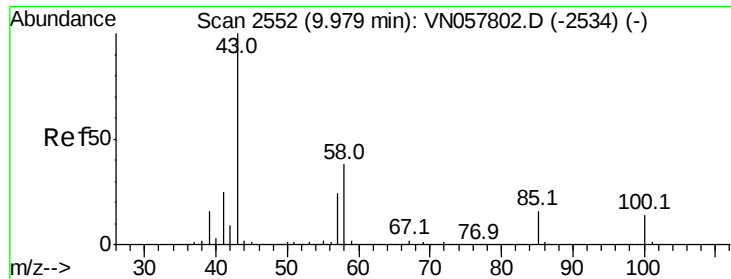
Tot Ion: 41 Resp: 4780
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 51.447 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

Tgt Ion: 98 Resp: 935281
Ion Ratio Lower Upper
98 100
100 64.2 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.905 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

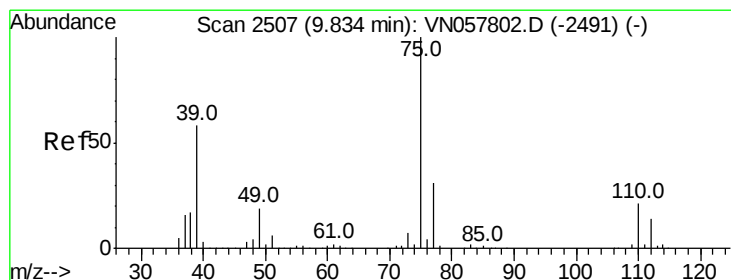
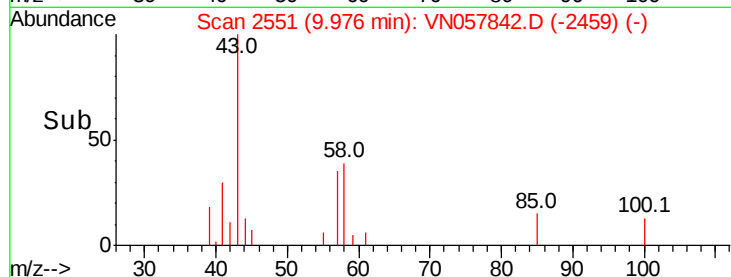
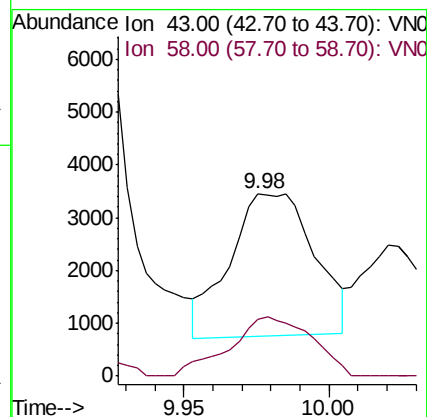
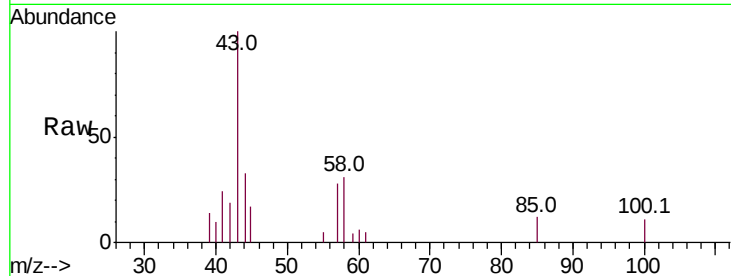
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 5472

Ion Ratio Lower Upper

43 100

58 40.5 29.8 44.6



#54

cis-1,3-Dichloropropene

Concen: 5.282 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

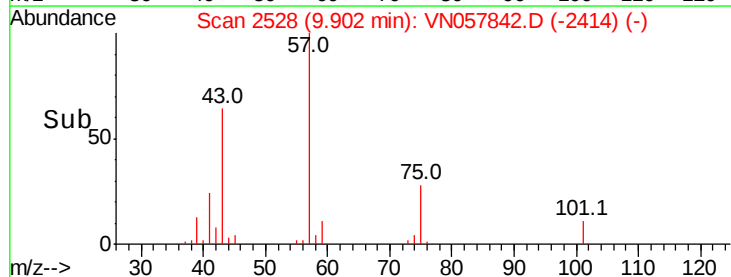
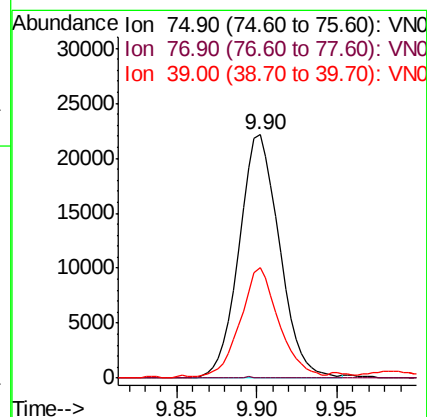
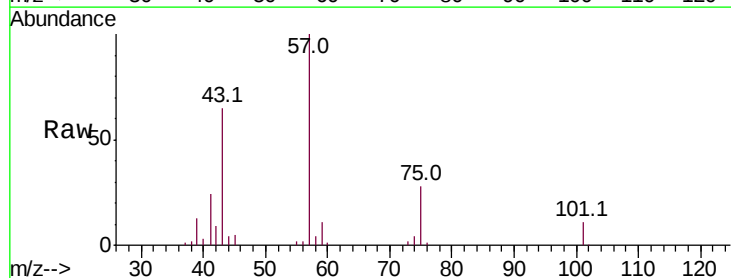
Tgt Ion: 75 Resp: 38195

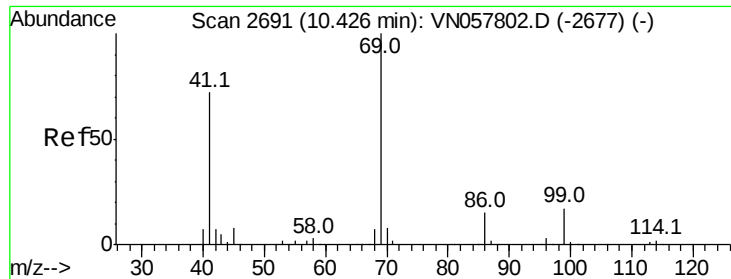
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 44.8 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :

MSVOA_N

ClientSampleId :

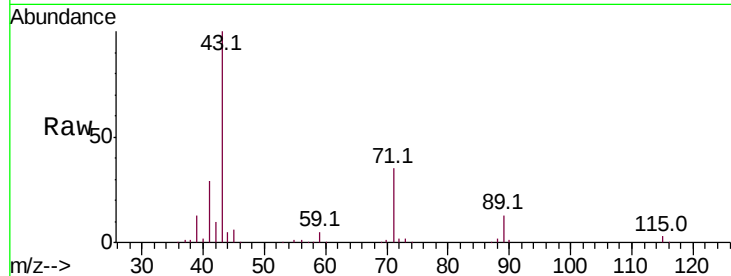
Tot Ion: 69 Resp: 1732

Ion Ratio Lower Upper

69 100

41 5542.0 56.7 85.1#

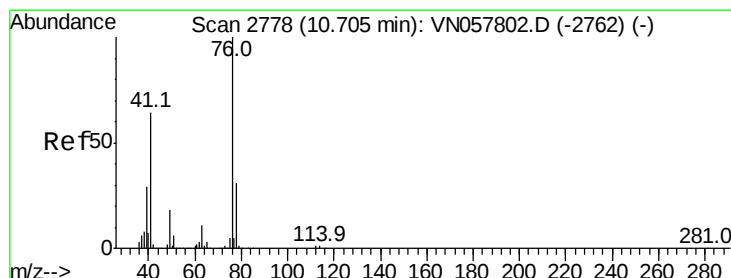
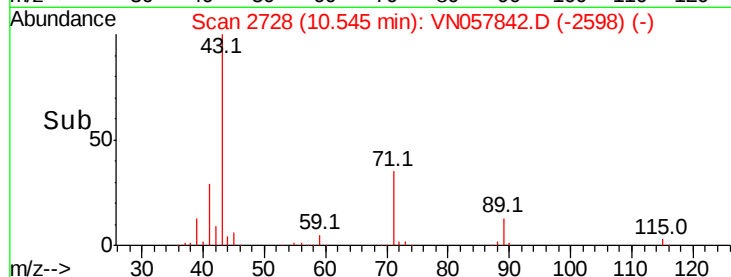
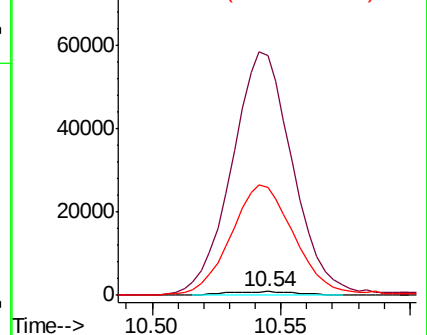
39 2651.5 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.768 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057842.D

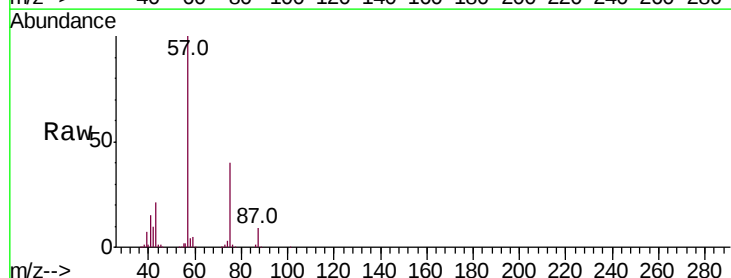
Acq: 10 Sep 2019 7:36

Tgt Ion: 76 Resp: 6257

Ion Ratio Lower Upper

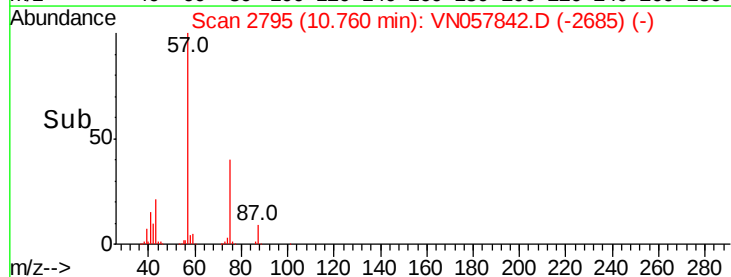
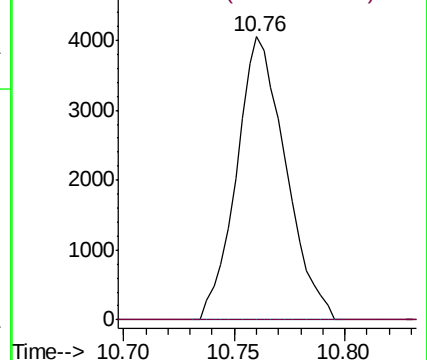
76 100

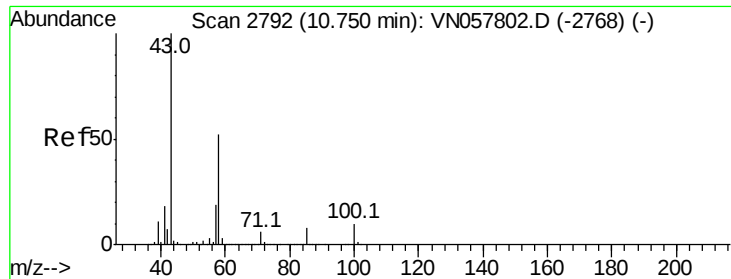
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 21.661 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :

MSVOA_N

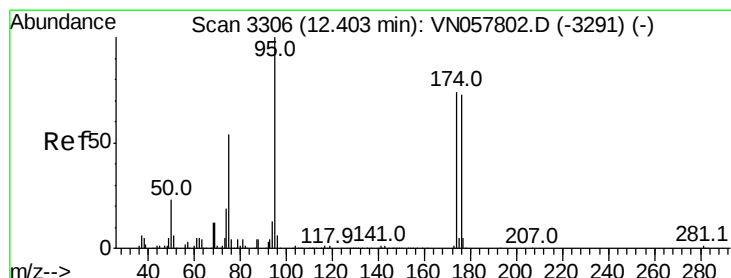
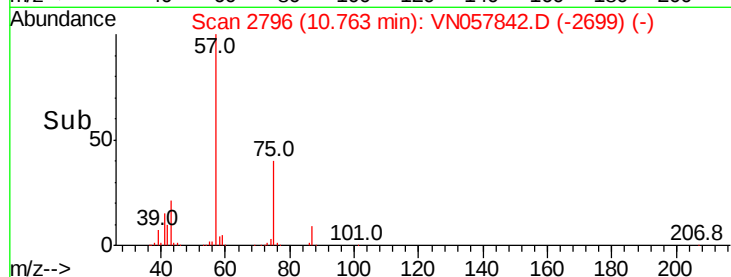
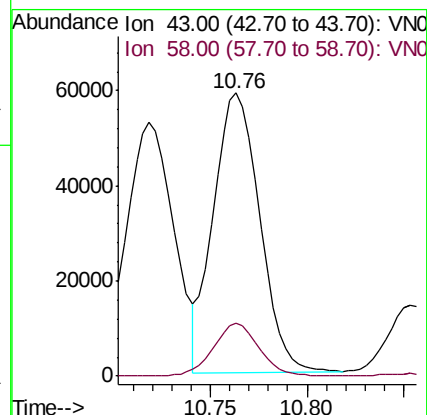
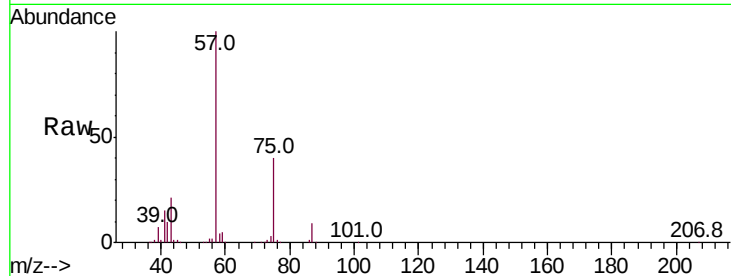
ClientSampleId :

Tot Ion: 43 Resp: 98215

Ion Ratio Lower Upper

43 100

58 18.6 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 43.925 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

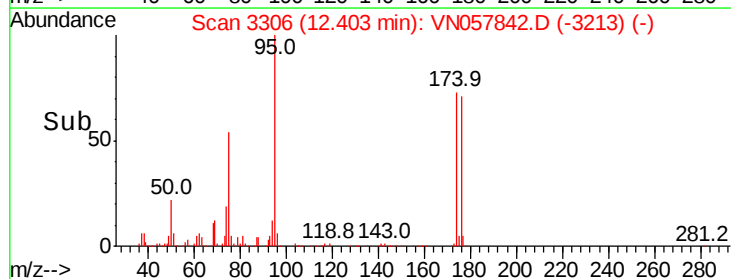
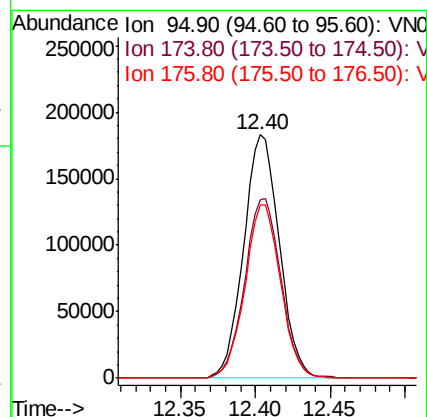
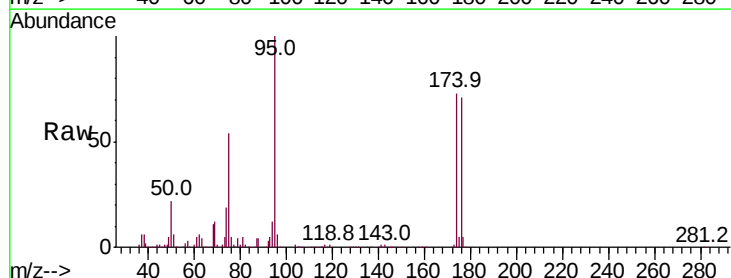
Tgt Ion: 95 Resp: 304311

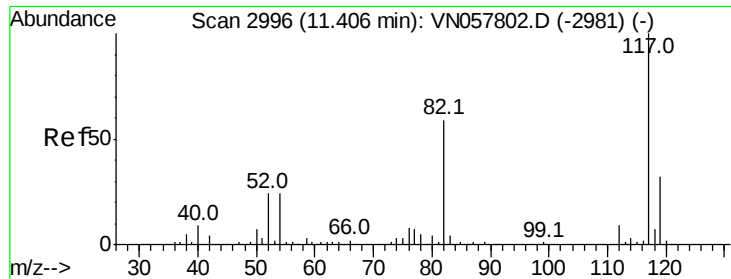
Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.2

176 71.1 0.0 146.0

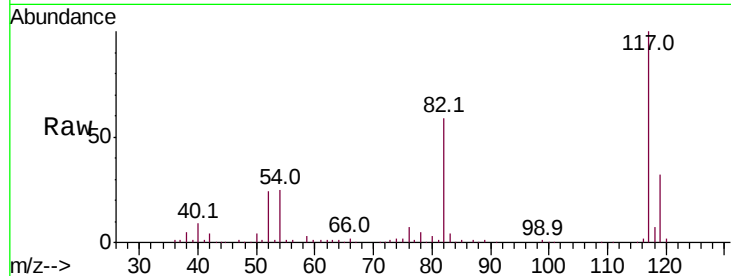




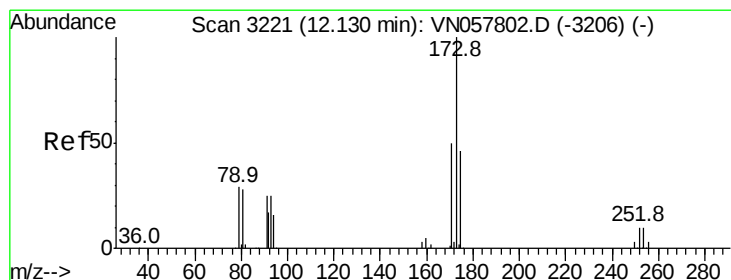
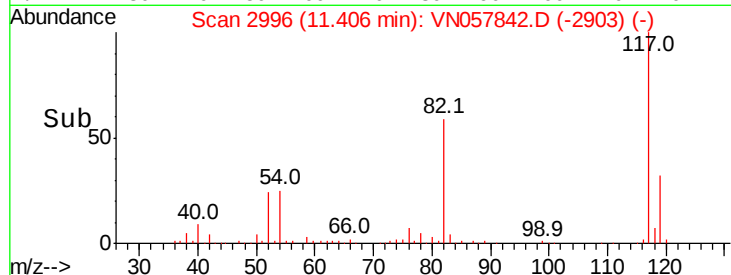
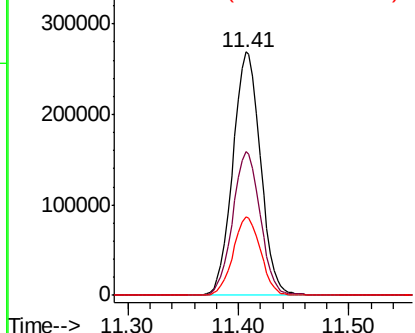
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 468936
Ion Ratio Lower Upper
117 100
82 58.9 47.2 70.8
119 32.3 25.3 37.9

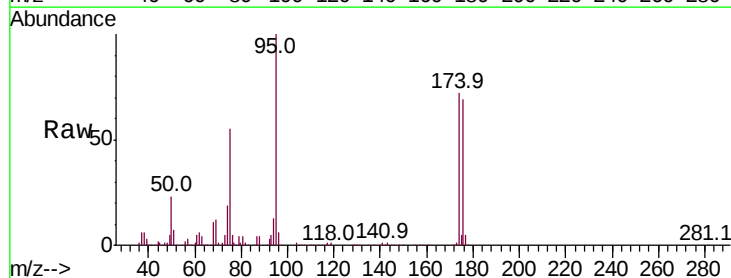


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

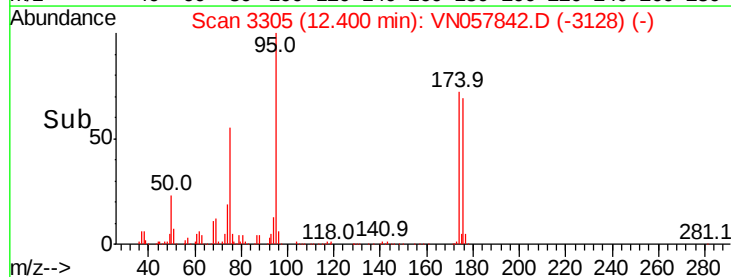
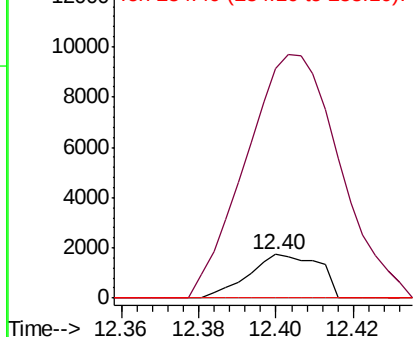


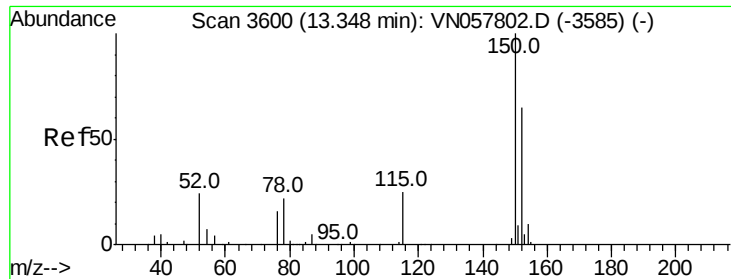
#71
Bromoform
Concen: 0.824 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057842.D
Acq: 10 Sep 2019 7:36

Tgt Ion:173 Resp: 2187
Ion Ratio Lower Upper
173 100
175 661.3 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: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :

MSVOA_N

ClientSampled :

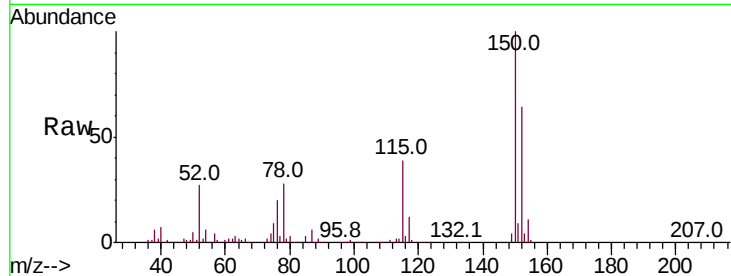
Tot Ion:152 Resp: 238543

Ion Ratio Lower Upper

152 100

115 62.1 30.3 91.0

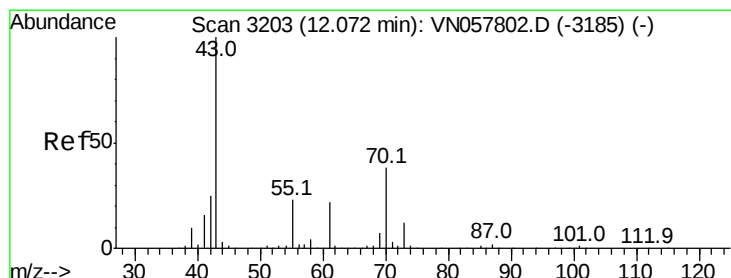
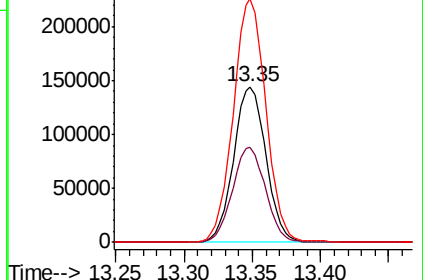
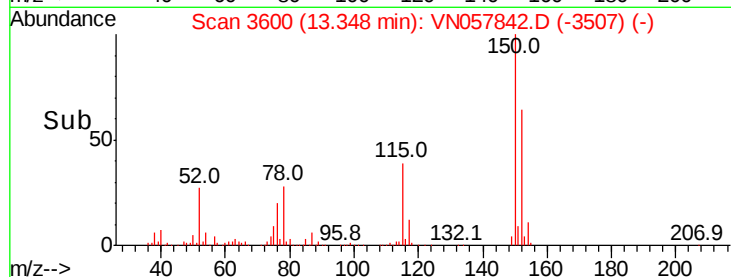
150 157.2 0.0 352.4



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: 0.554 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Tgt Ion: 43 Resp: 4465

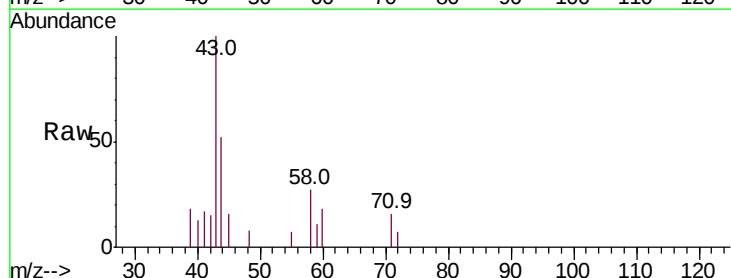
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.4 18.6 27.8#

61 0.0 17.4 26.2#

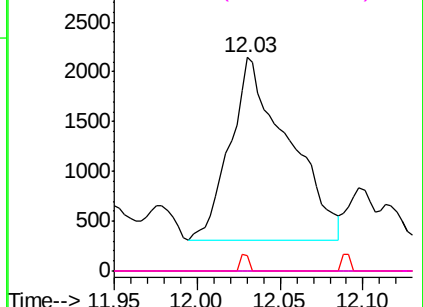
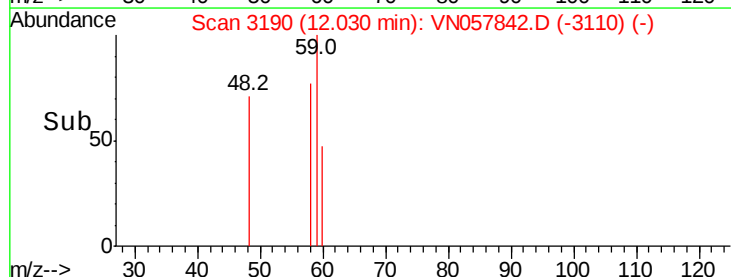


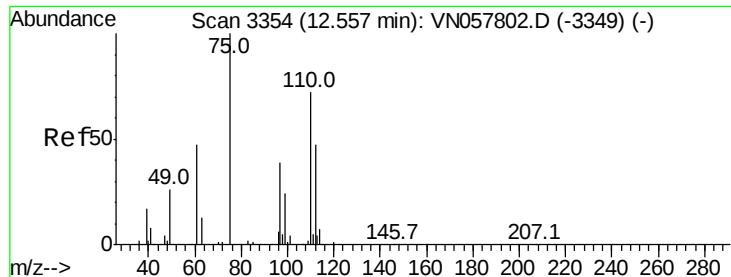
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.613 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :

MSVOA_N

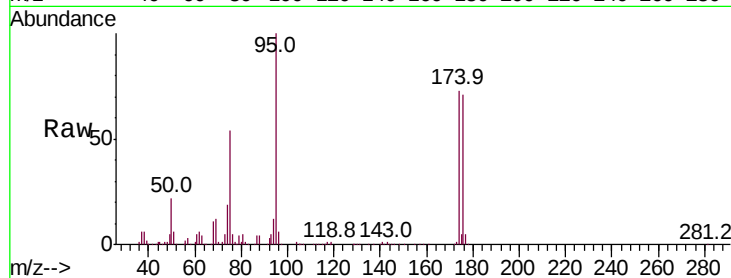
ClientSampleId :

Tot Ion: 75 Resp: 165198

Ion Ratio Lower Upper

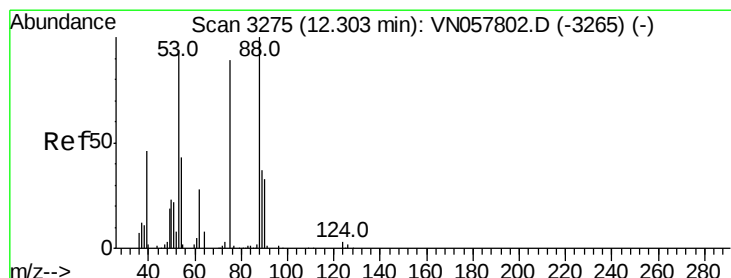
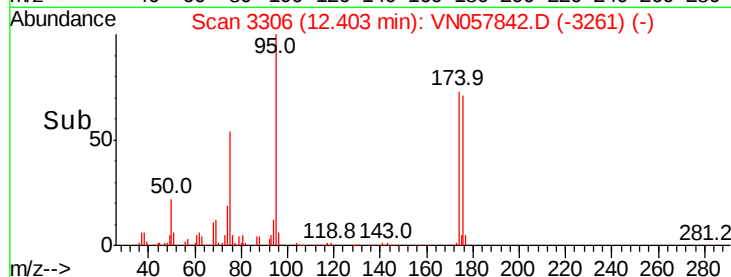
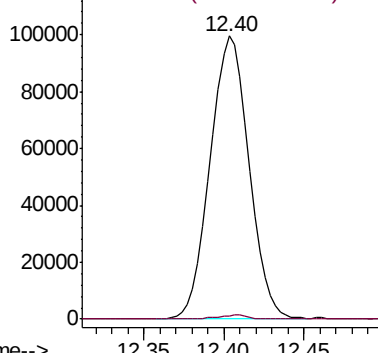
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 107.729 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

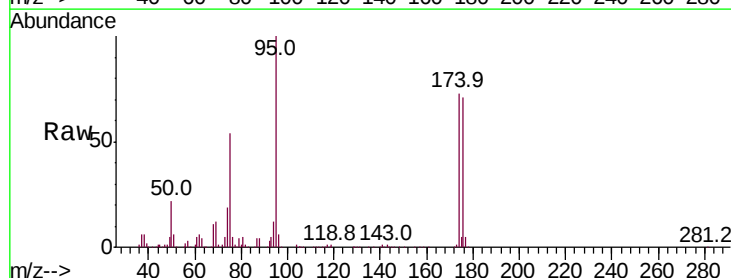
Tgt Ion: 75 Resp: 165198

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

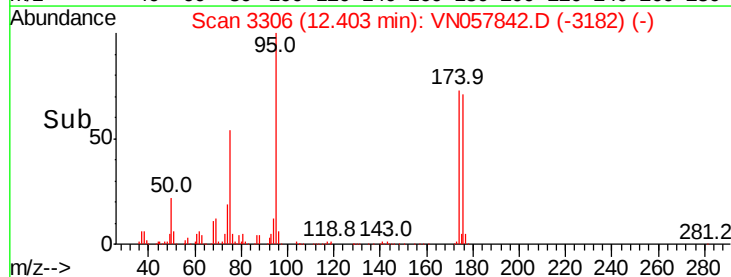
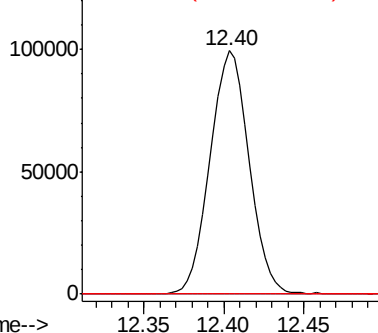
89 0.0 35.3 52.9#

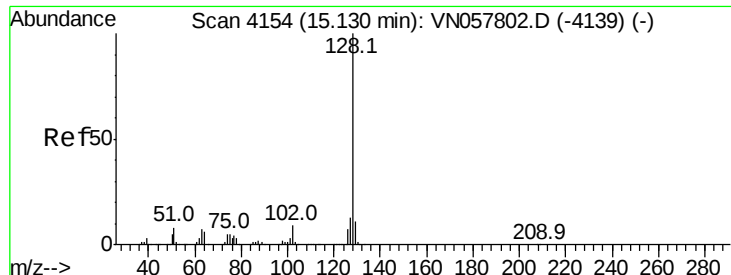


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

Instrument :

MSVOA_N

ClientSampleId :

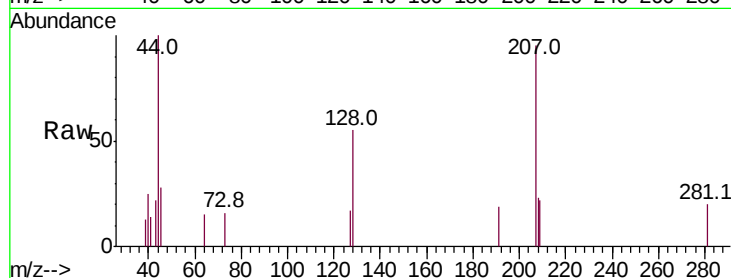
Tot Ion:128 Resp: 937

Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14

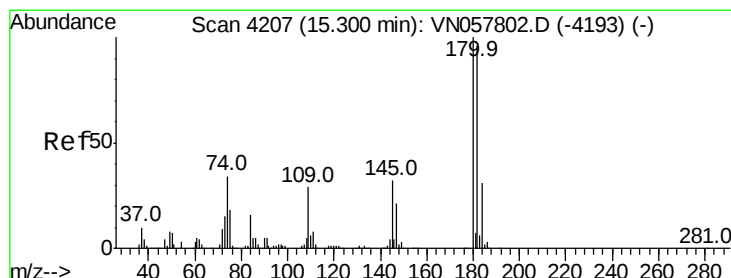
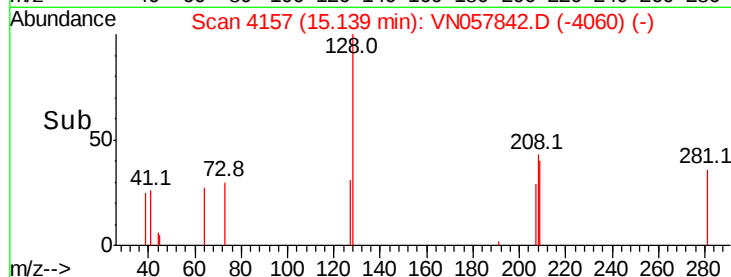
600

400

200

0

Time--> 15.10 15.15



#96

1,2,3-Trichlorobenzene

Concen: 1.004 ug/l

RT: 15.29 min Scan# 4204

Delta R.T. -0.01 min

Lab File: VN057842.D

Acq: 10 Sep 2019 7:36

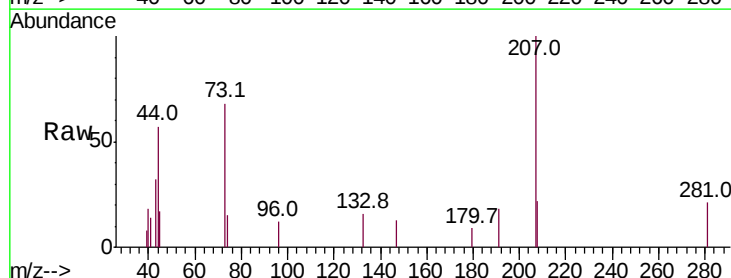
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.8#

145 0.0 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.29

200

150

100

50

0

Time--> 15.28 15.29 15.30

