

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057808.D
 Acq On : 9 Sep 2019 18:22
 Operator : JC/SP
 Sample : VN0910WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:09:14 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

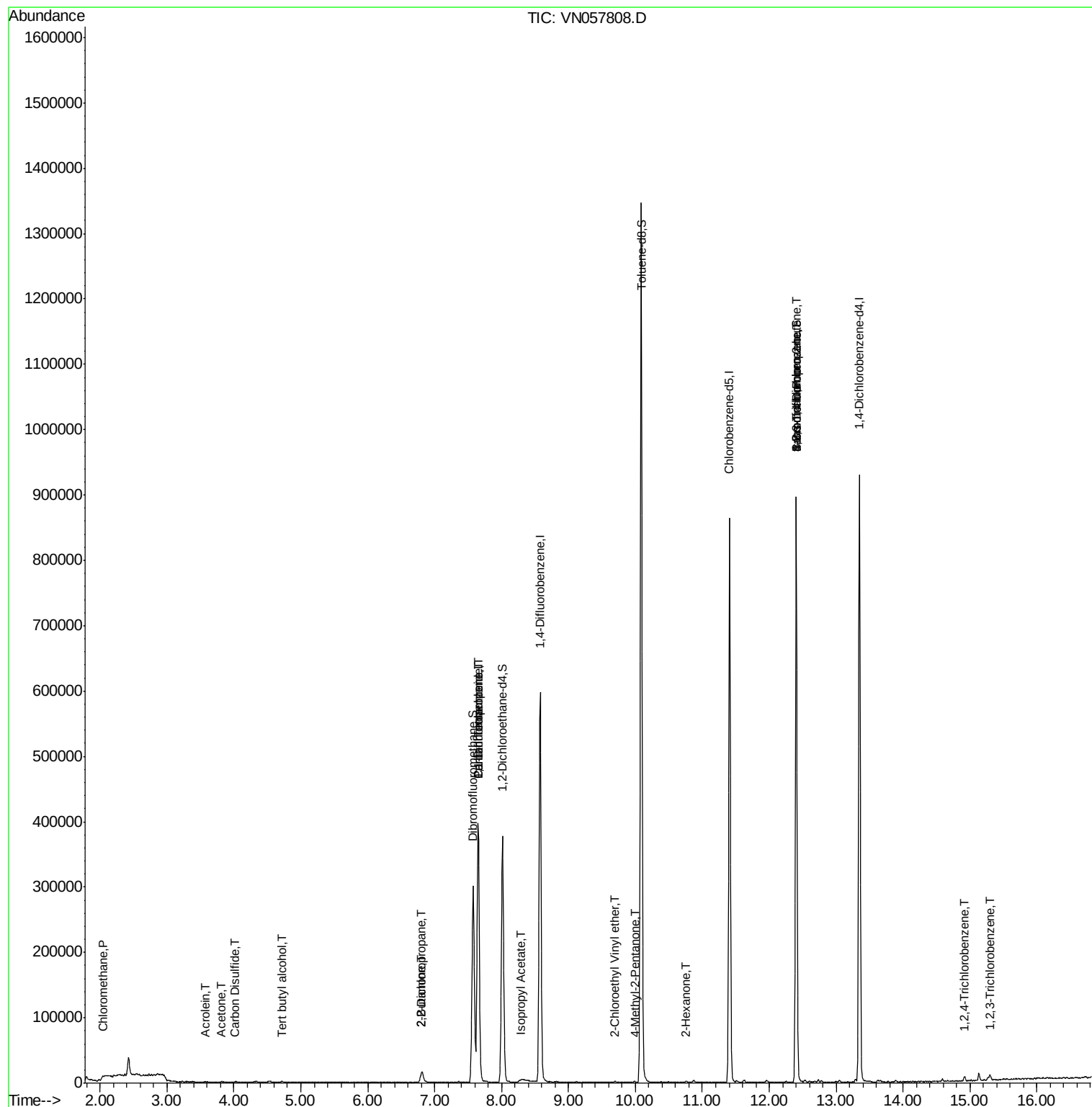
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	310829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	515002	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	465679	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	237524	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	325486	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
35) Dibromofluoromethane	7.57	113	223868	47.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.20%	
50) Toluene-d8	10.08	98	923624	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.40	95	292725	41.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.24%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1024	0.234	ug/l	99
5) Bromomethane	2.54	94	683	Below Cal		94
11) Tert butyl alcohol	4.72	59	673	0.883	ug/l #	72
13) Acrolein	3.59	56	285	0.441	ug/l #	59
16) Acetone	3.80	43	665	0.322	ug/l #	47
17) Carbon Disulfide	4.02	76	1121	0.375	ug/l #	75
20) Methylene Chloride	4.52	84	1139	Below Cal	#	55
25) 2-Butanone	6.81	43	1074	0.360	ug/l #	49
26) 2,2-Dichloropropane	6.81	77	1430	0.218	ug/l #	54
31) Cyclohexane	7.65	56	7855	Below Cal	#	16
36) 1,1-Dichloropropene	7.65	75	27221	4.558	ug/l #	50
38) Carbon Tetrachloride	7.65	117	32252	5.915	ug/l #	15
43) Isopropyl Acetate	8.28	43	2748	0.265	ug/l #	56
51) 4-Methyl-2-Pentanone	9.99	43	1629	0.265	ug/l #	38
58) 2-Chloroethyl Vinyl ether	9.69	63	914	0.269	ug/l #	63
59) 2-Hexanone	10.76	43	1587	0.345	ug/l	71
71) Bromoform	12.40	173	1196	0.454	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	165354	30.774	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165354	108.294	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	2248	0.408	ug/l	80
95) Naphthalene	15.13	128	8584	Below Cal	#	95
96) 1,2,3-Trichlorobenzene	15.30	180	2550	1.518	ug/l	96

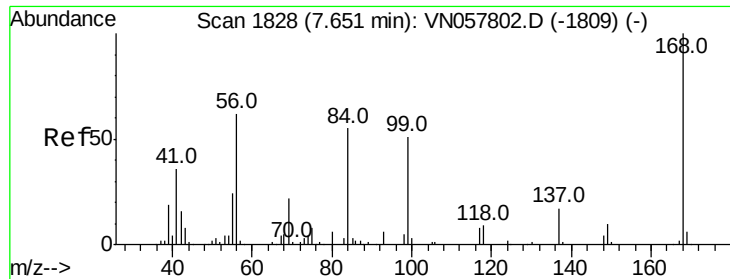
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampleId :

Quant Time: Sep 10 07:09:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
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: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

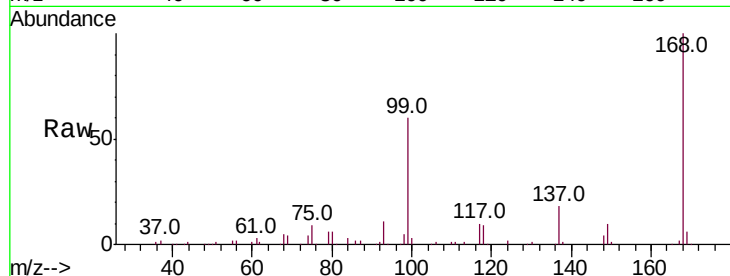
ClientSampled :

Tot Ion:168 Resp: 310829

Ion Ratio Lower Upper

168 100

99 59.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057808.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN057808.D (-1735) (-)

7.65

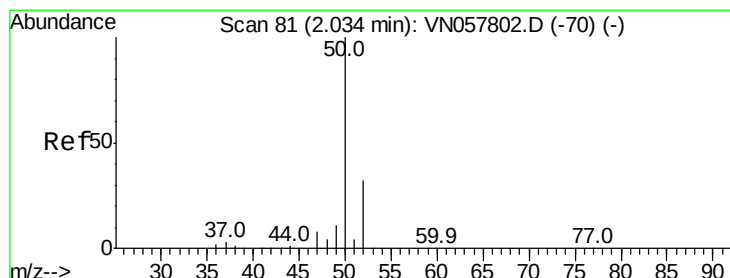
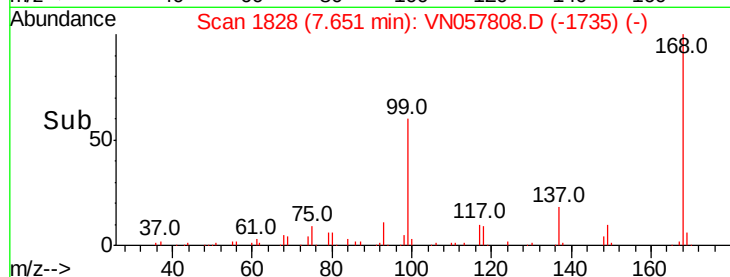
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.234 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057808.D

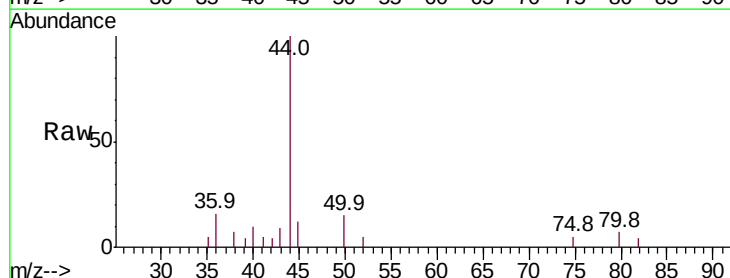
Acq: 9 Sep 2019 18:22

Tgt Ion: 50 Resp: 1024

Ion Ratio Lower Upper

50 100

52 32.3 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN057808.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN057808.D (-1) (-)

2.03

800

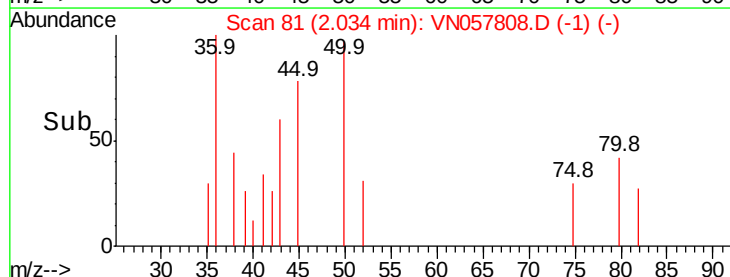
600

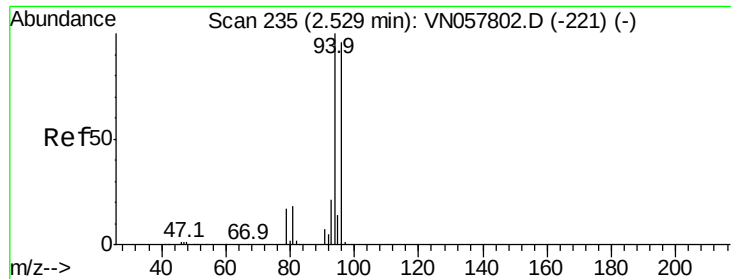
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

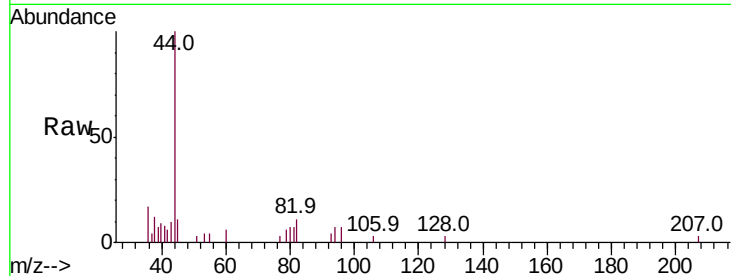
ClientSampled :

Tot Ion: 94 Resp: 683

Ion Ratio Lower Upper

94 100

96 89.9 77.0 115.4

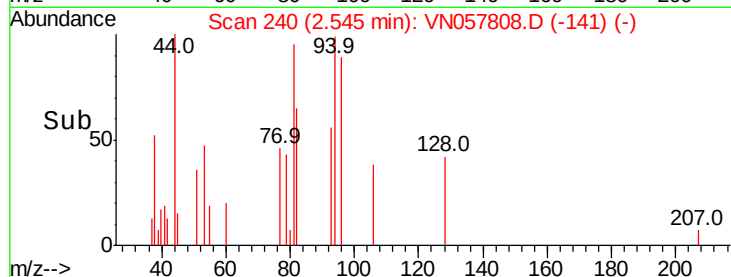


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

Time-->

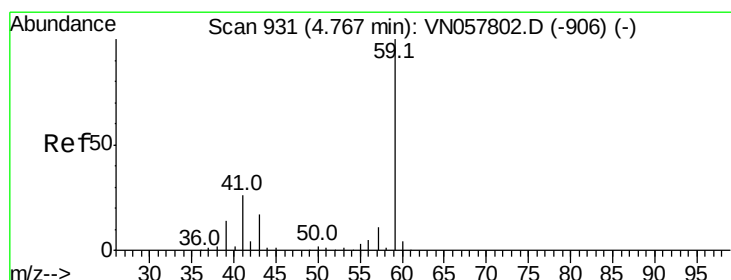


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

Time-->



#11

Tert butyl alcohol

Concen: 0.883 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.04 min

Lab File: VN057808.D

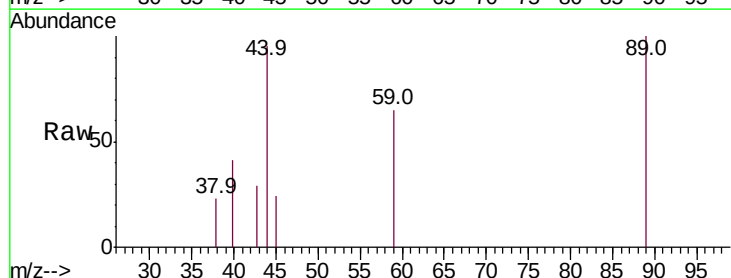
Acq: 9 Sep 2019 18:22

Tgt Ion: 59 Resp: 673

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#

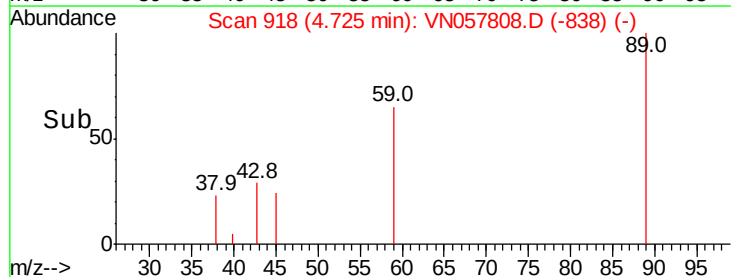


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

Time-->

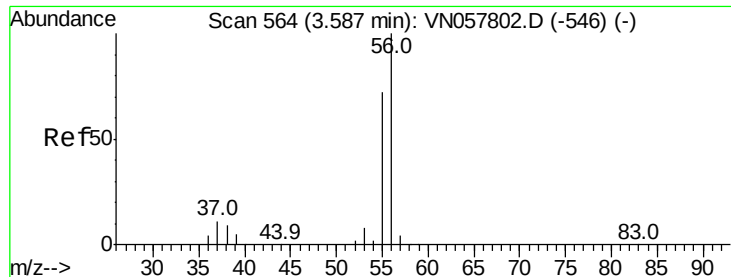


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

Time-->



#13

Acrolein

Concen: 0.441 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

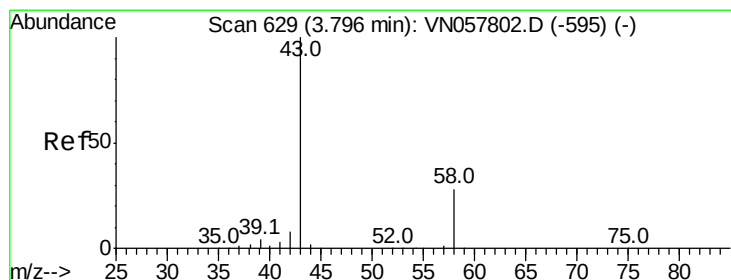
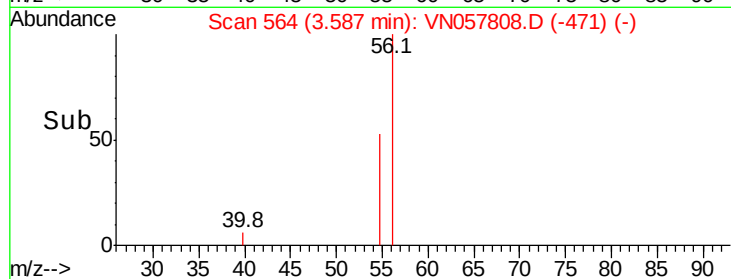
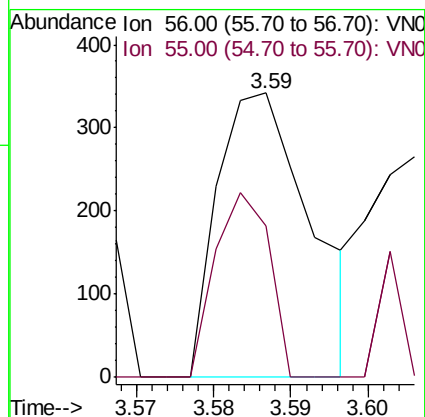
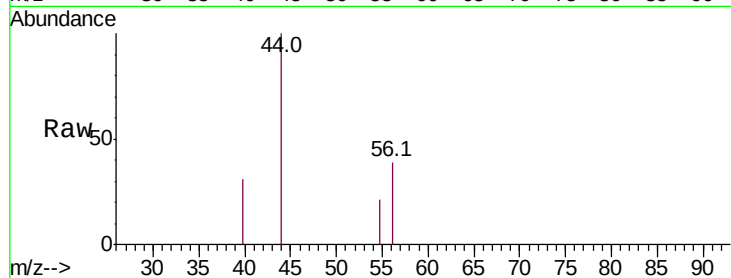
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 285

Ion Ratio Lower Upper

56 100

55 37.9 57.3 85.9#



#16

Acetone

Concen: 0.322 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057808.D

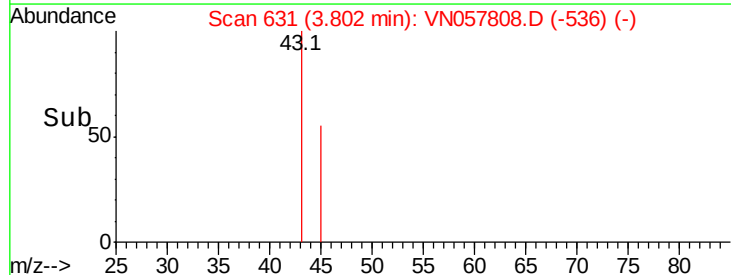
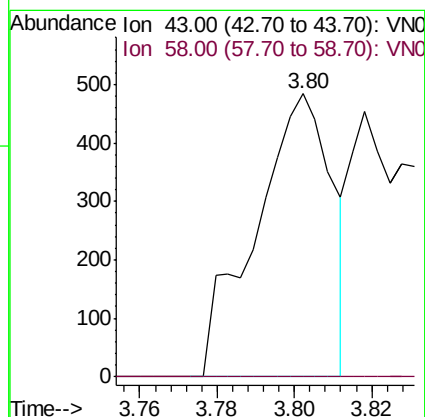
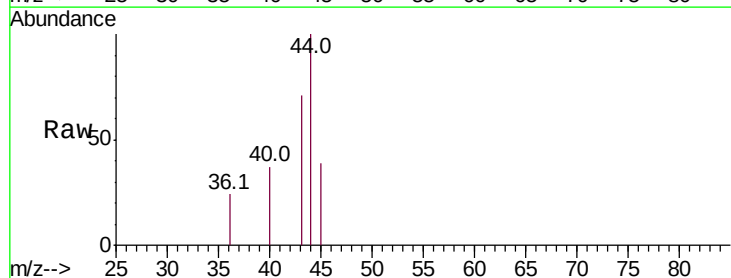
Acq: 9 Sep 2019 18:22

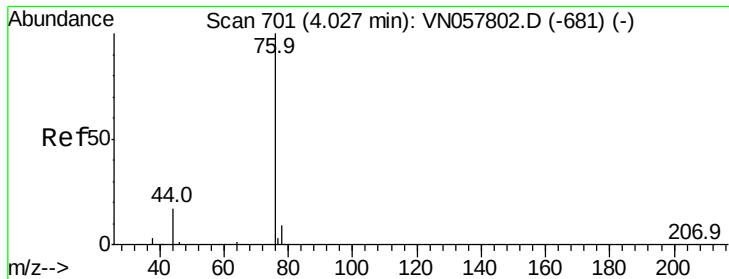
Tgt Ion: 43 Resp: 665

Ion Ratio Lower Upper

43 100

58 0.0 22.2 33.2#





#17

Carbon Disulfide

Concen: 0.375 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

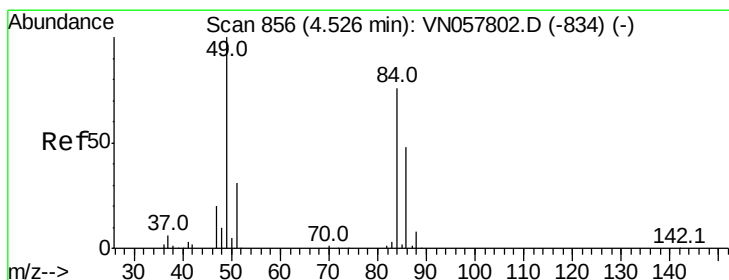
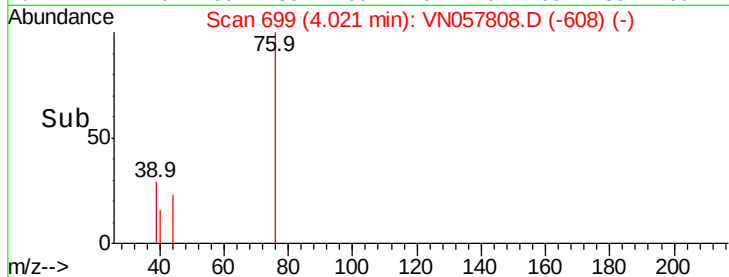
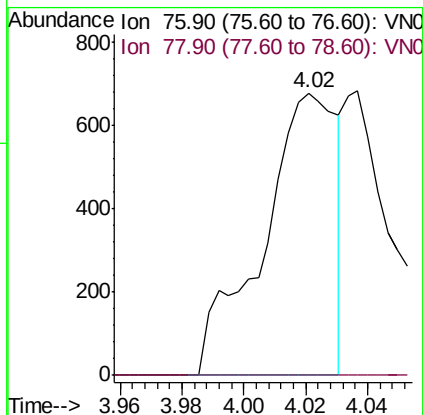
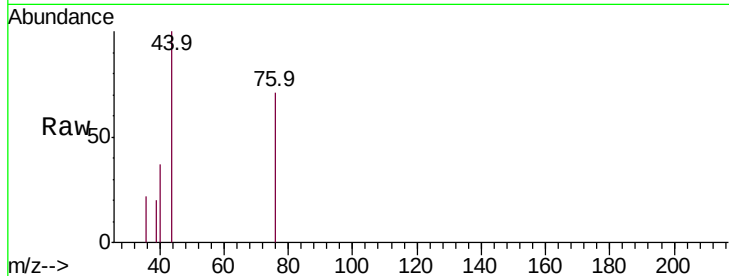
ClientSampled :

Tot Ion: 76 Resp: 1121

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Tgt Ion: 84 Resp: 1139

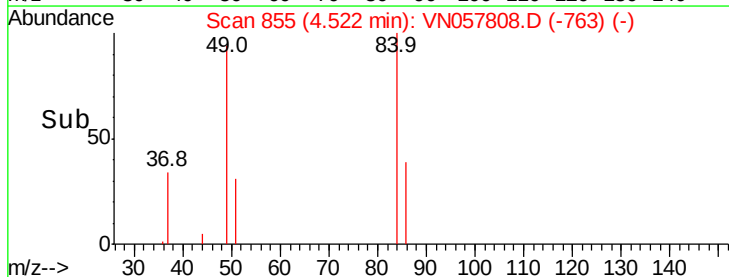
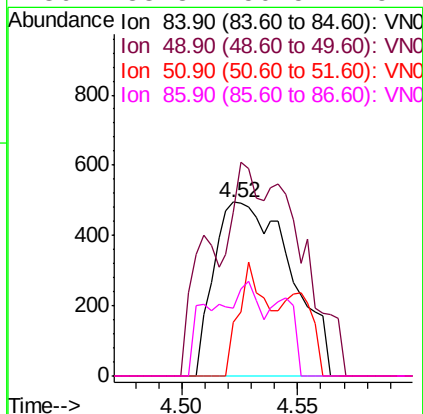
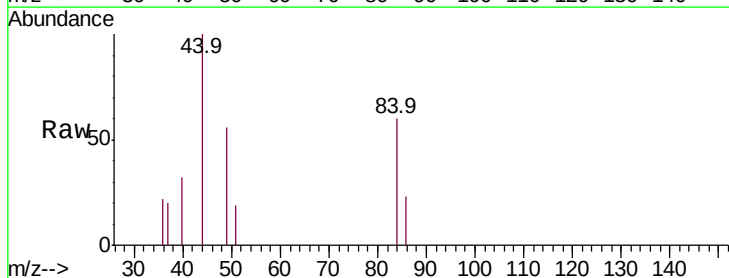
Ion Ratio Lower Upper

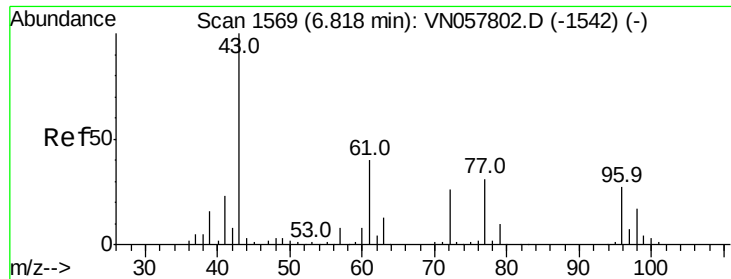
84 100

49 60.8 104.8 157.2#

51 31.3 33.0 49.4#

86 38.8 50.5 75.7#





#25

2-Butanone

Concen: 0.360 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

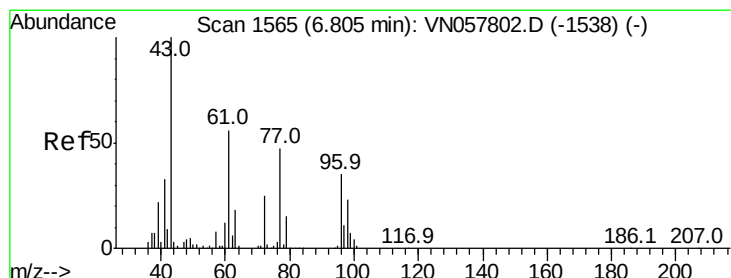
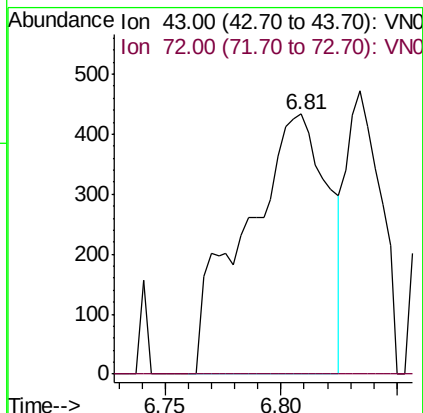
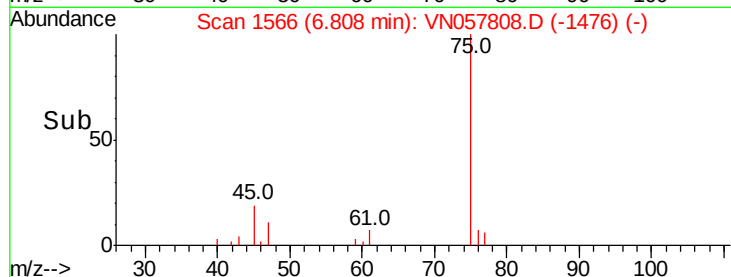
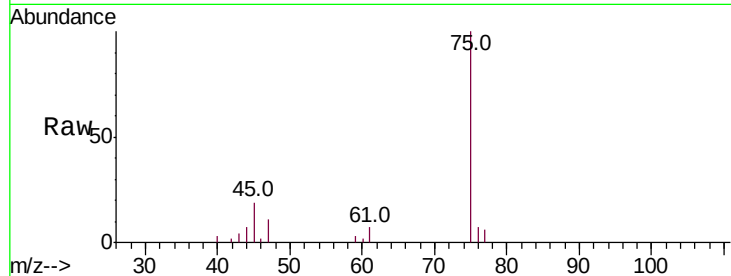
ClientSampled :

Tot Ion: 43 Resp: 1074

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



#26

2,2-Dichloropropane

Concen: 0.218 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN057808.D

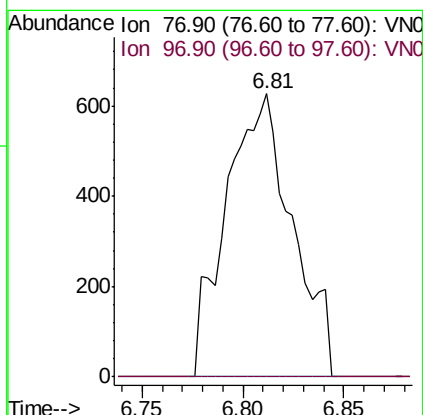
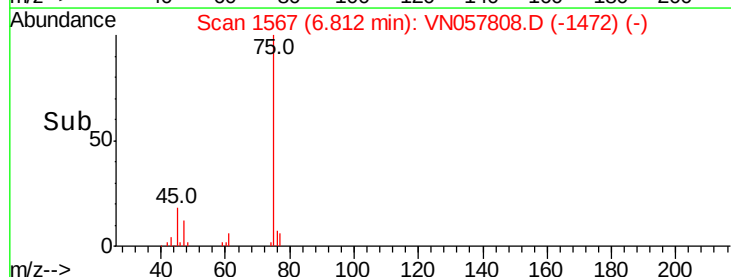
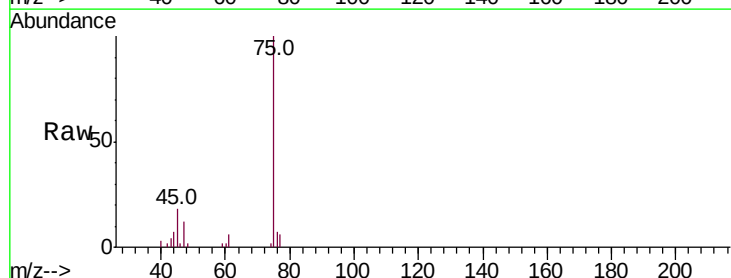
Acq: 9 Sep 2019 18:22

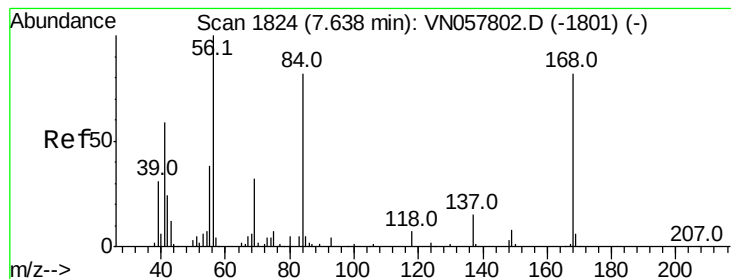
Tgt Ion: 77 Resp: 1430

Ion Ratio Lower Upper

77 100

97 0.0 11.1 33.3#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :
MSVOA_N
ClientSampled :

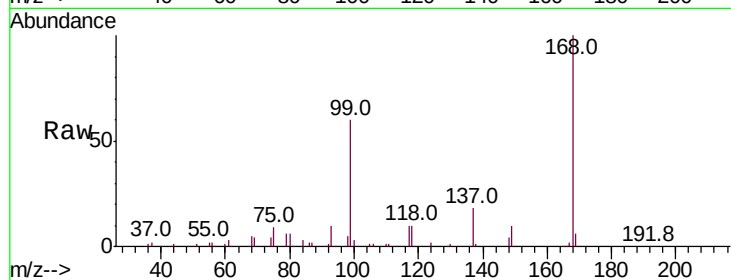
Tot Ion: 56 Resp: 7855

Ion Ratio Lower Upper

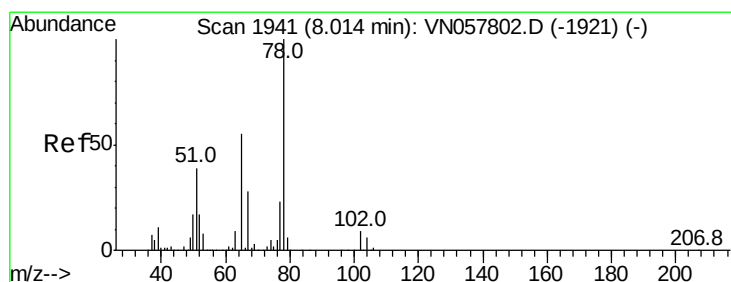
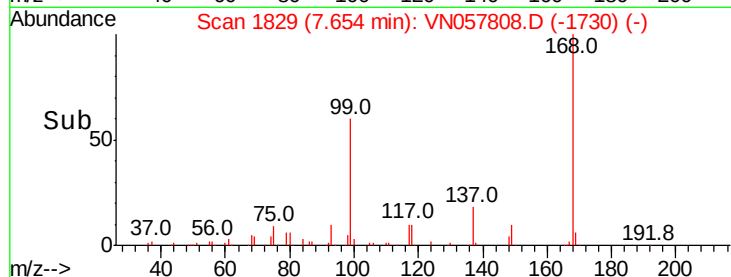
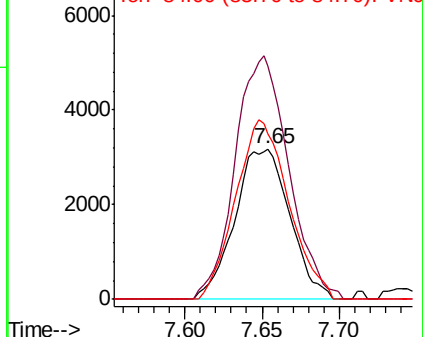
56 100

69 155.0 25.9 38.9#

84 109.7 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: 51.701 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057808.D

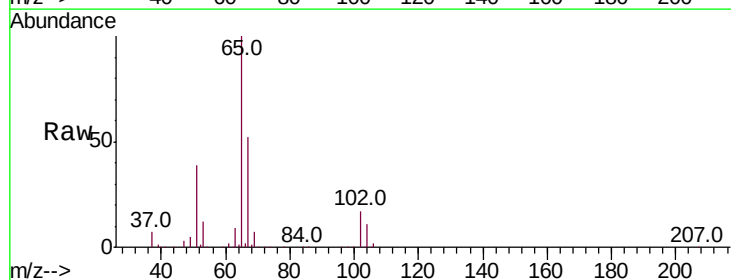
Acq: 9 Sep 2019 18:22

Tgt Ion: 65 Resp: 325486

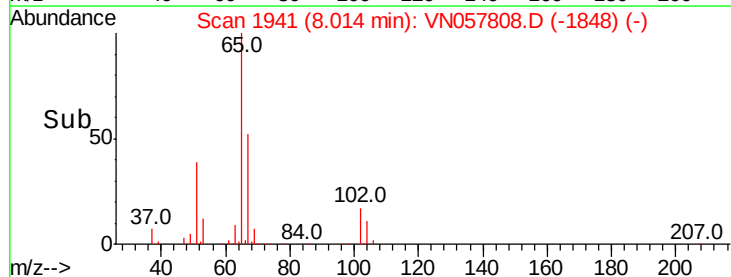
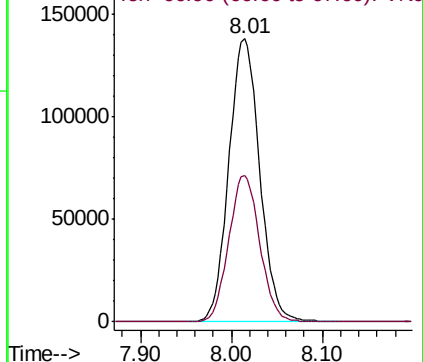
Ion Ratio Lower Upper

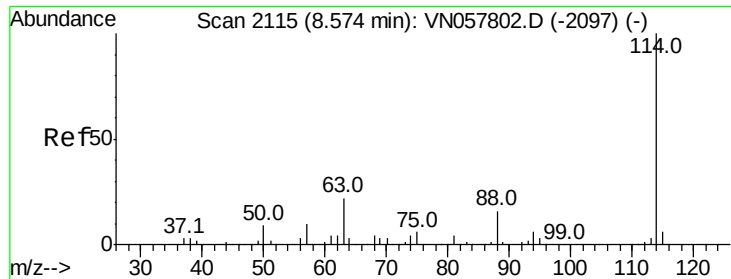
65 100

67 52.1 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: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

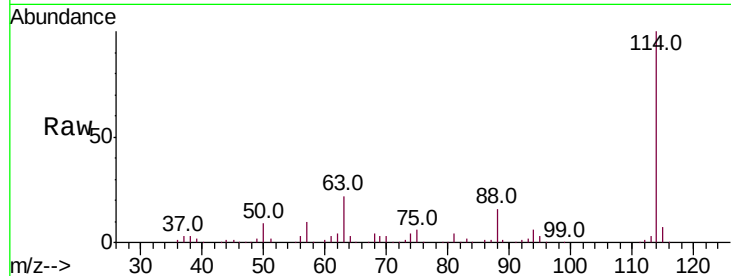
Tot Ion:114 Resp: 515002

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

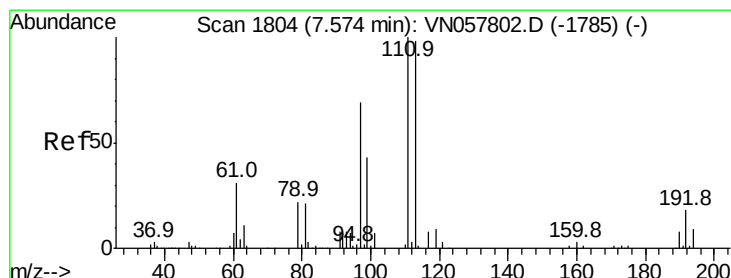
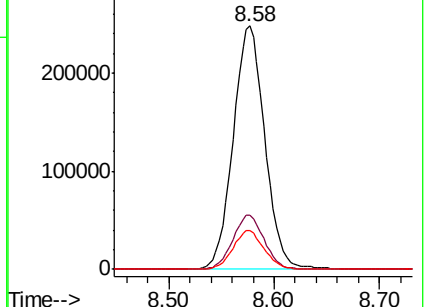
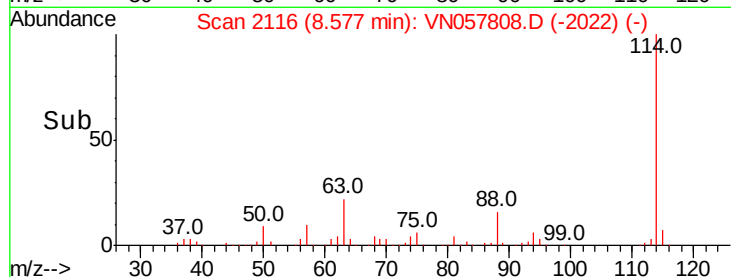
88 15.9 0.0 31.4



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: 47.098 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

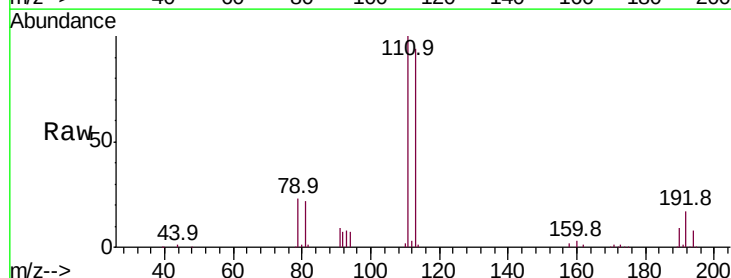
Tgt Ion:113 Resp: 223868

Ion Ratio Lower Upper

113 100

111 105.2 81.3 121.9

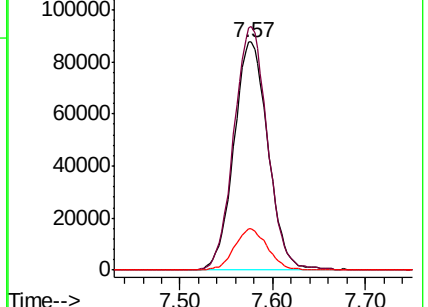
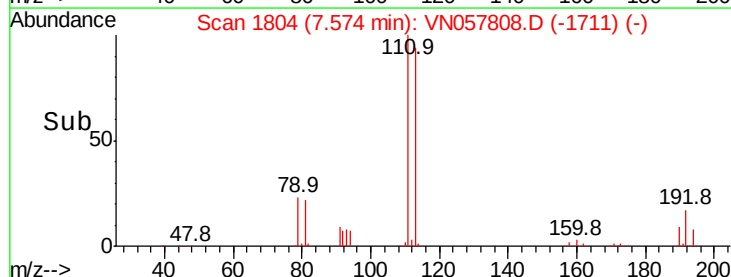
192 17.6 14.6 22.0

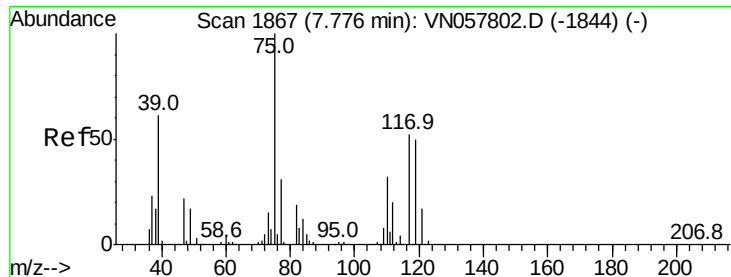


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

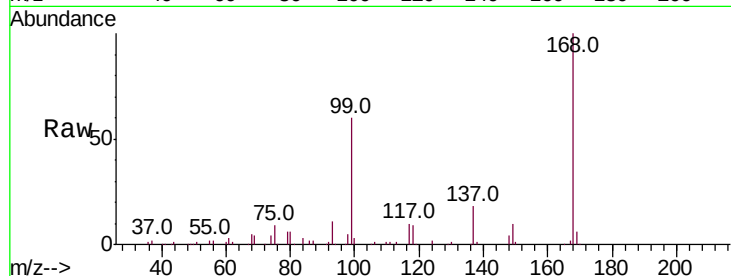




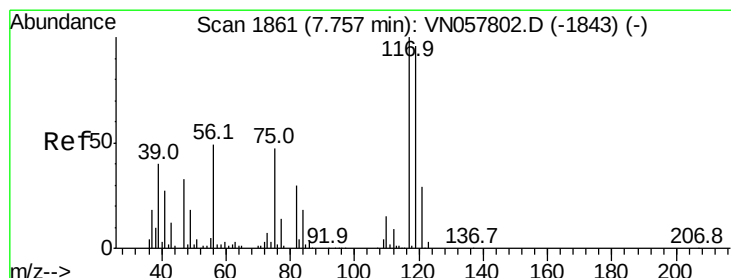
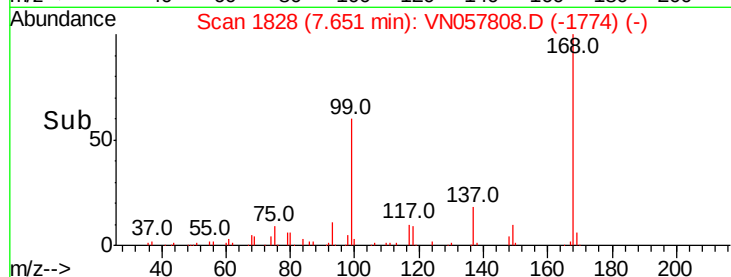
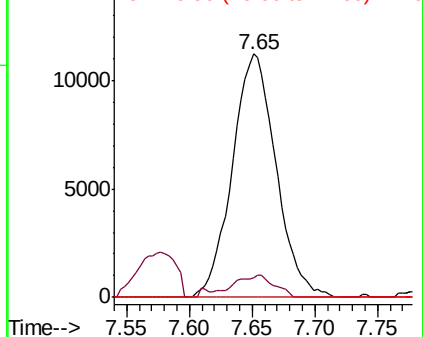
#36
 1,1-Dichloropropene
 Concen: 4.558 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057808.D
 Acq: 9 Sep 2019 18:22

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 27221
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.3 48.9#
 77 0.0 25.0 37.4#

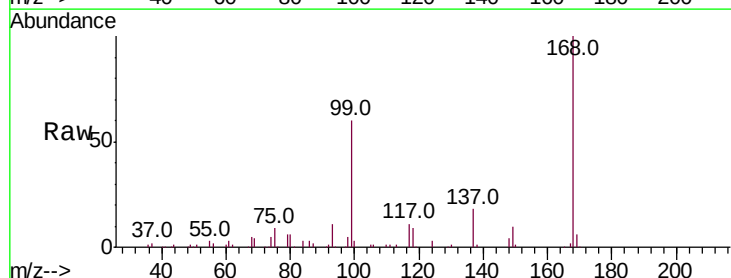


Abundance Ion 74.90 (74.60 to 75.60): VN0
 15000 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

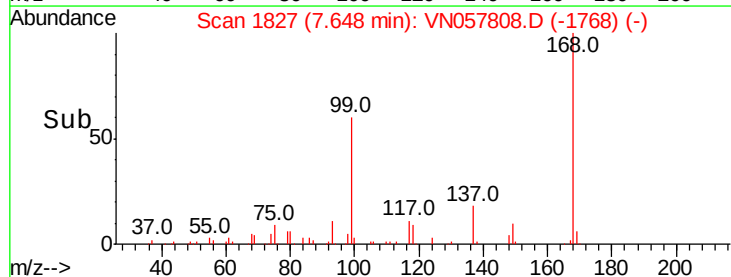
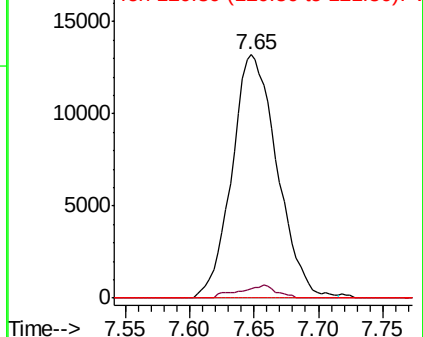


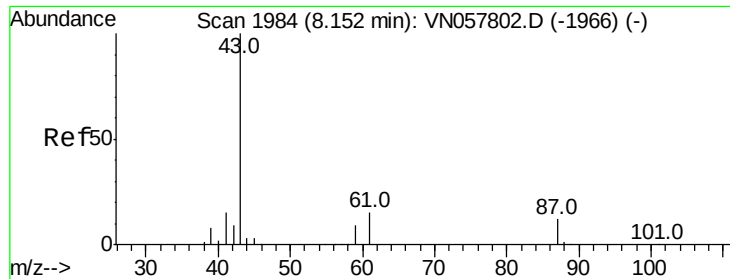
#38
 Carbon Tetrachloride
 Concen: 5.915 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN057808.D
 Acq: 9 Sep 2019 18:22

Tgt Ion: 117 Resp: 32252
 Ion Ratio Lower Upper
 117 100
 119 3.9 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: 0.265 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.13 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

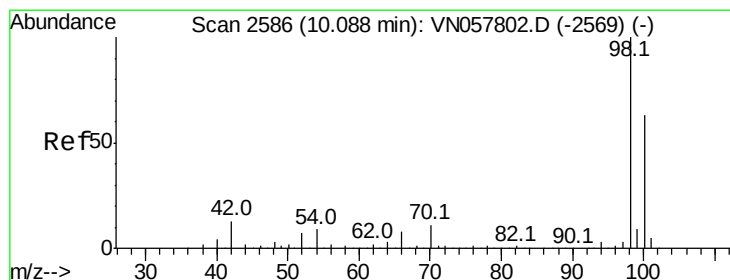
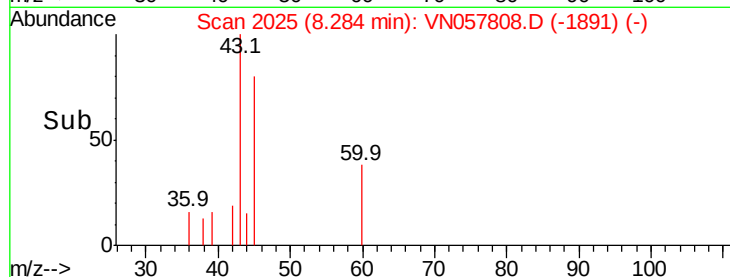
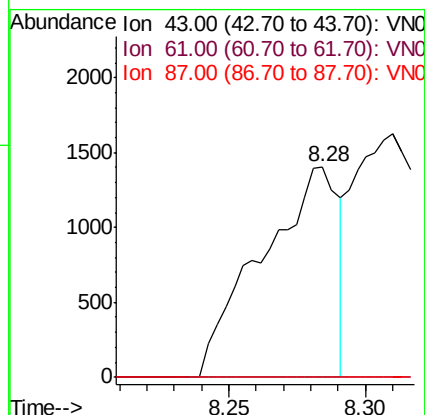
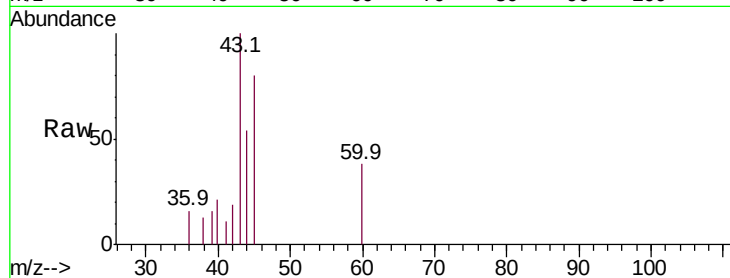
Tot Ion: 43 Resp: 2748

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

87 0.0 9.5 14.3#



#50

Toluene-d8

Concen: 50.048 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057808.D

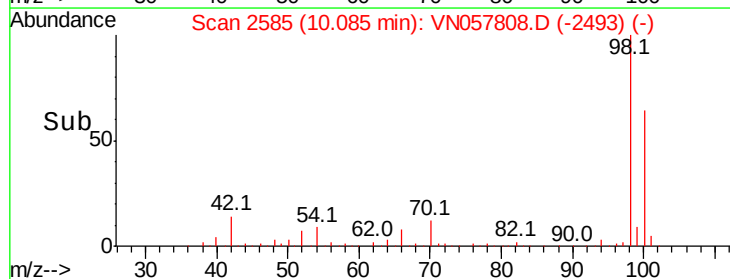
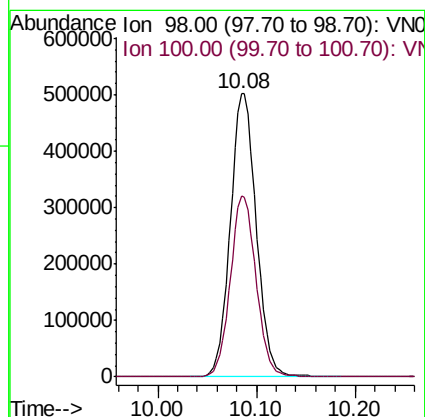
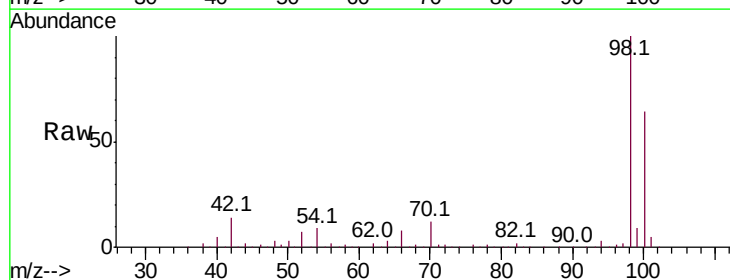
Acq: 9 Sep 2019 18:22

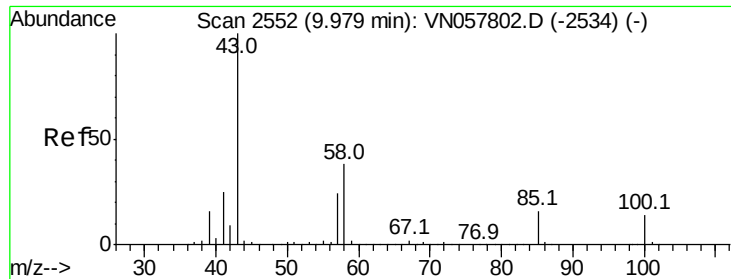
Tgt Ion: 98 Resp: 923624

Ion Ratio Lower Upper

98 100

100 63.4 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.265 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

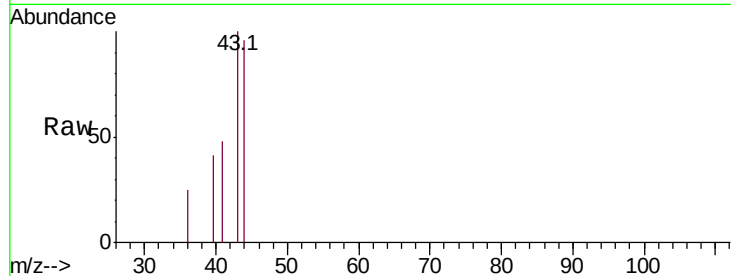
ClientSampled :

Tot Ion: 43 Resp: 1629

Ion Ratio Lower Upper

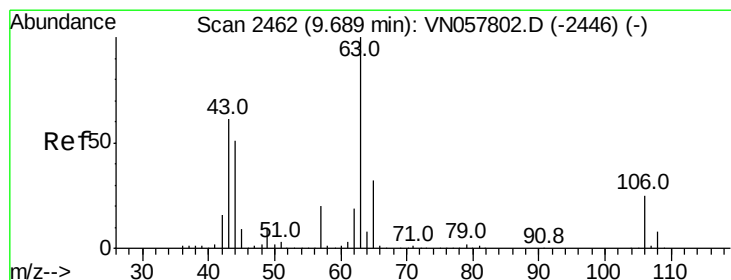
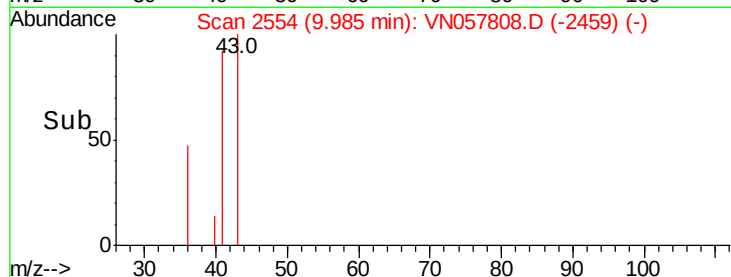
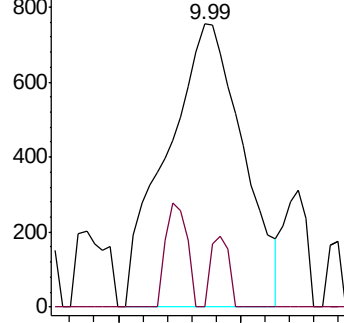
43 100

58 0.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 0.269 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN057808.D

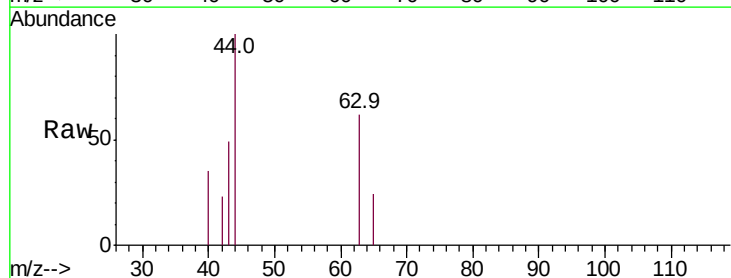
Acq: 9 Sep 2019 18:22

Tgt Ion: 63 Resp: 914

Ion Ratio Lower Upper

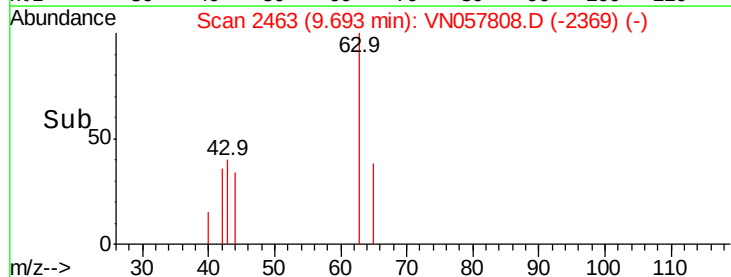
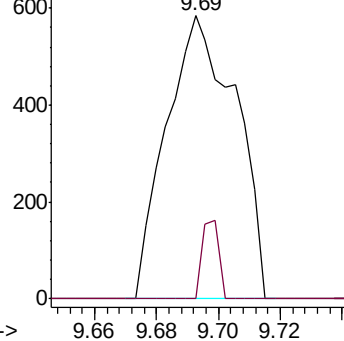
63 100

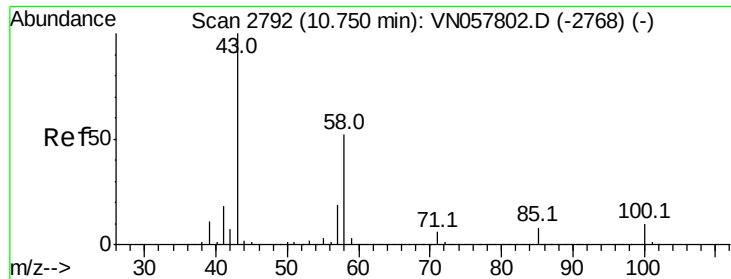
106 6.7 20.0 30.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 0.345 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

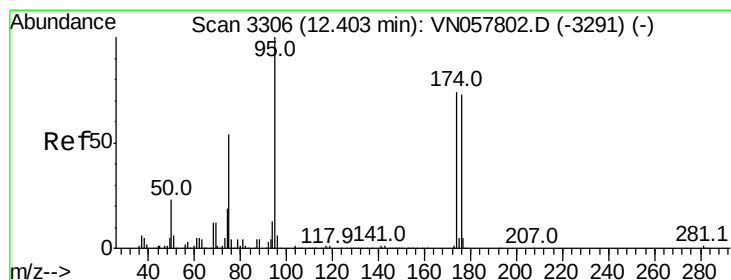
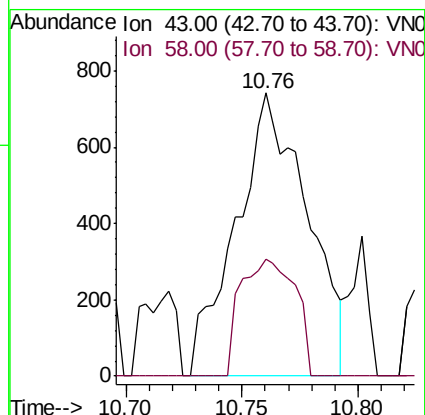
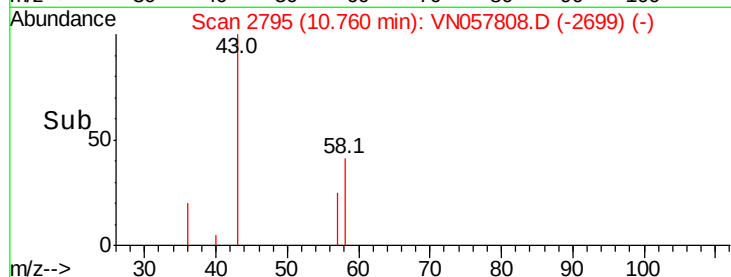
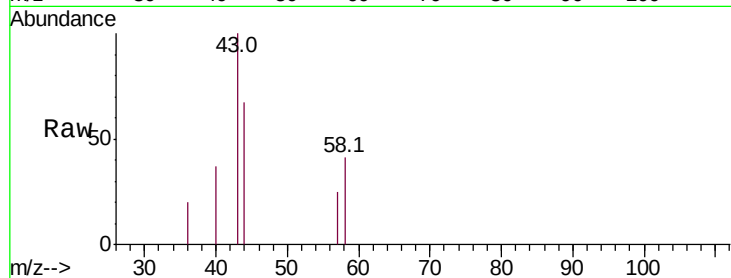
ClientSampleId :

Tot Ion: 43 Resp: 1587

Ion Ratio Lower Upper

43 100

58 31.3 25.6 76.8



#62

4-Bromofluorobenzene

Concen: 41.622 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

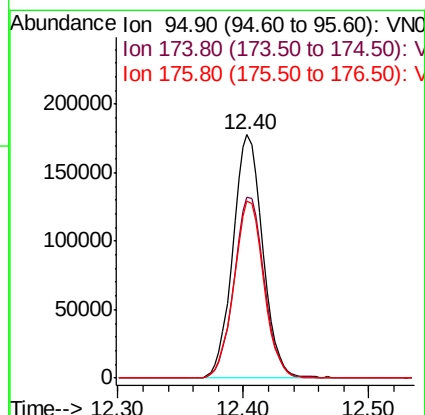
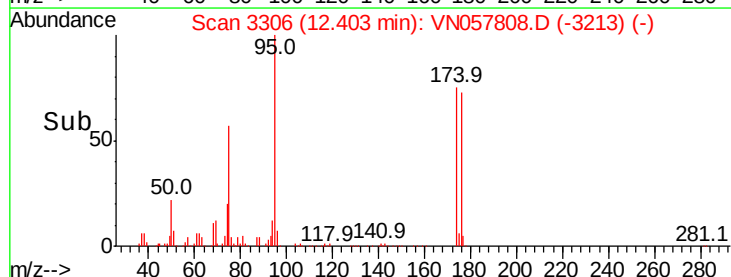
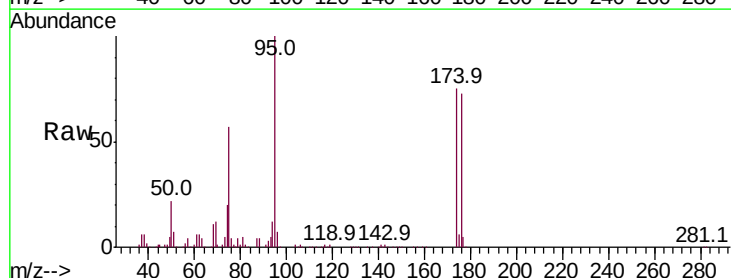
Tgt Ion: 95 Resp: 292725

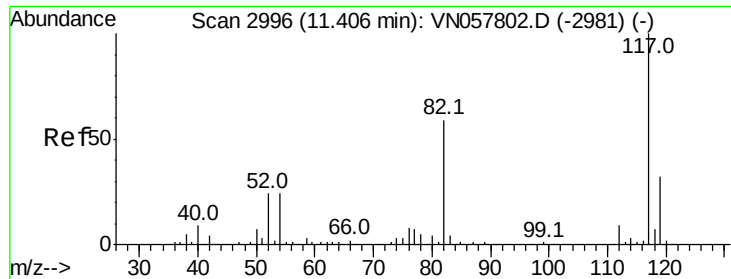
Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.2

176 73.4 0.0 146.0

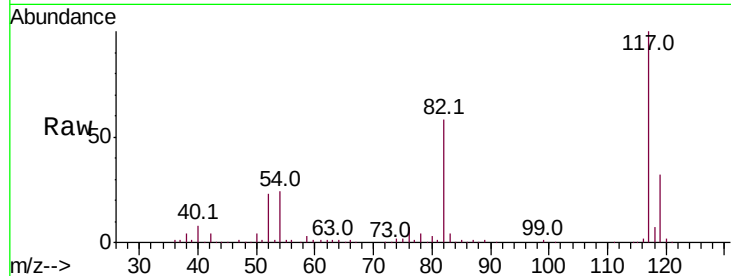




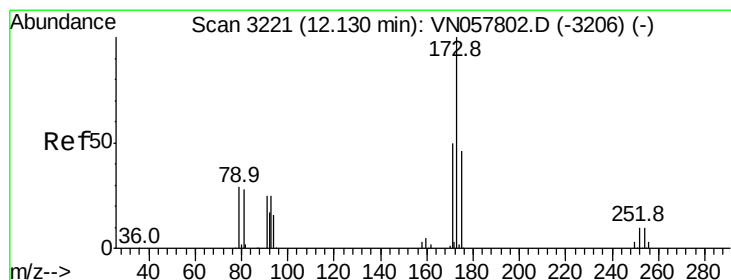
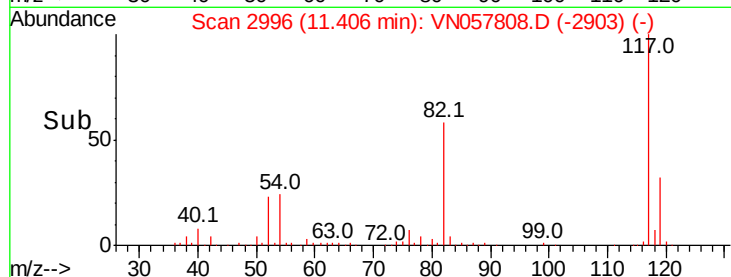
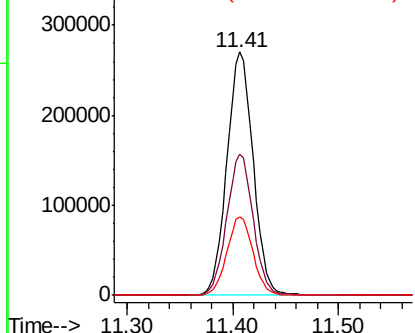
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057808.D
Acq: 9 Sep 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 465679
Ion Ratio Lower Upper
117 100
82 58.0 47.2 70.8
119 32.4 25.3 37.9

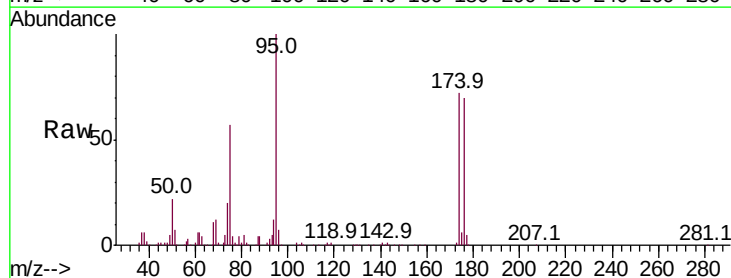


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

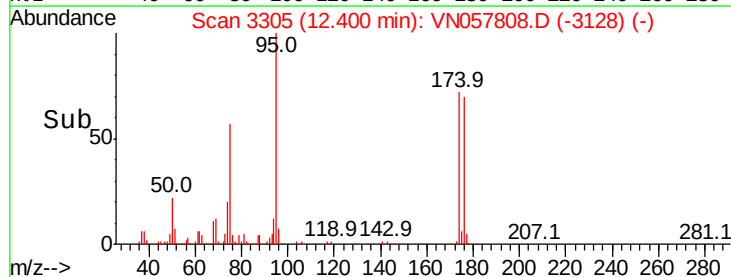
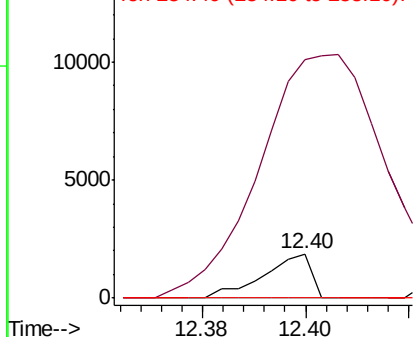


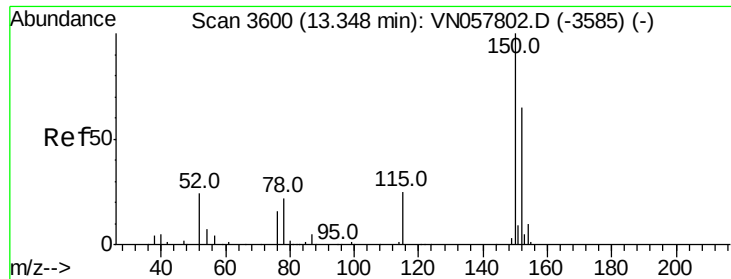
#71
Bromoform
Concen: 0.454 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057808.D
Acq: 9 Sep 2019 18:22

Tgt Ion:173 Resp: 1196
Ion Ratio Lower Upper
173 100
175 1314.3 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: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

ClientSampled :

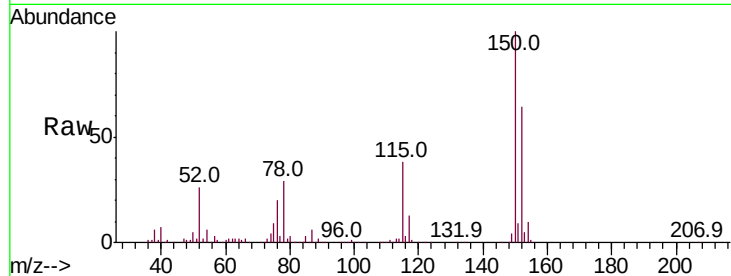
Tot Ion:152 Resp: 237524

Ion Ratio Lower Upper

152 100

115 59.6 30.3 91.0

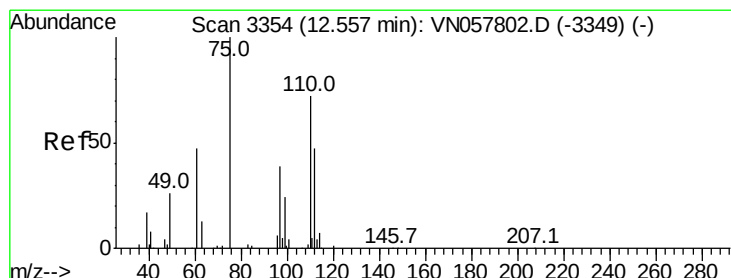
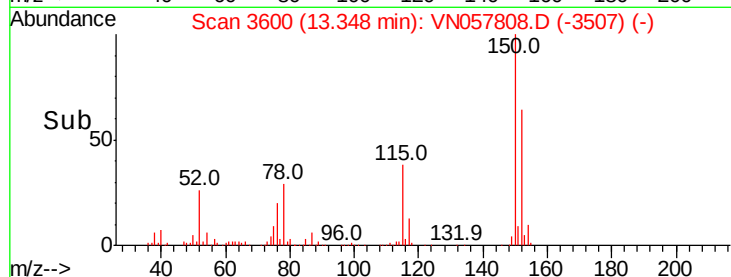
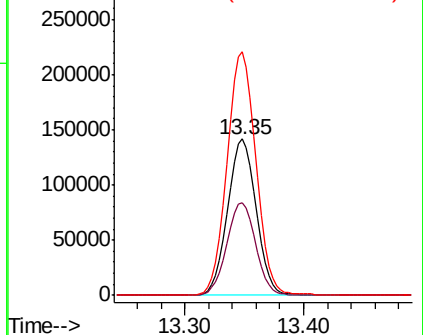
150 156.6 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 30.774 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057808.D

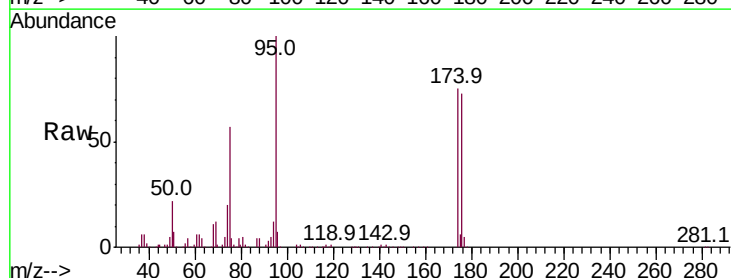
Acq: 9 Sep 2019 18:22

Tgt Ion: 75 Resp: 165354

Ion Ratio Lower Upper

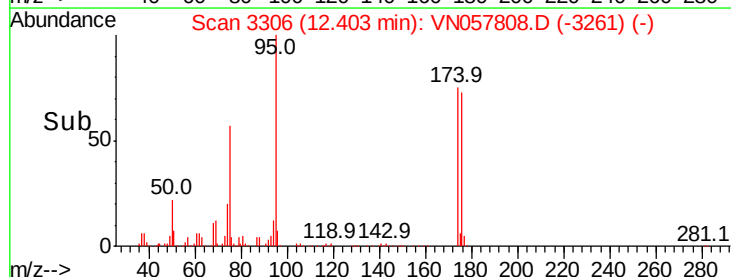
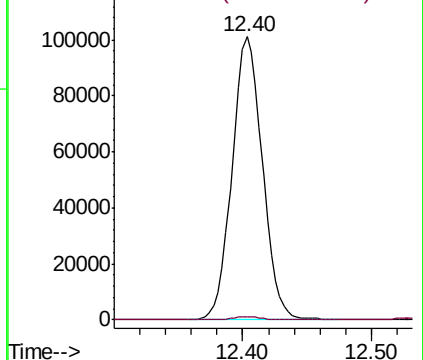
75 100

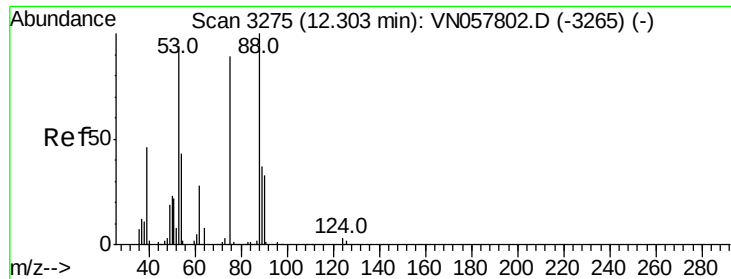
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

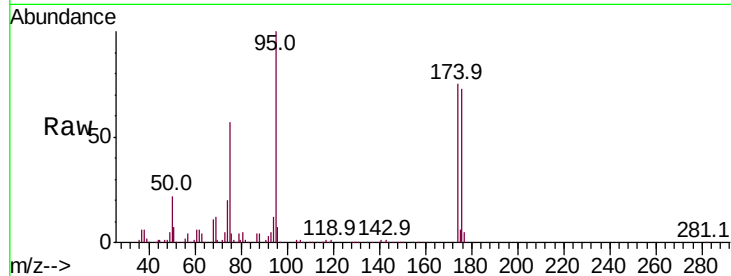




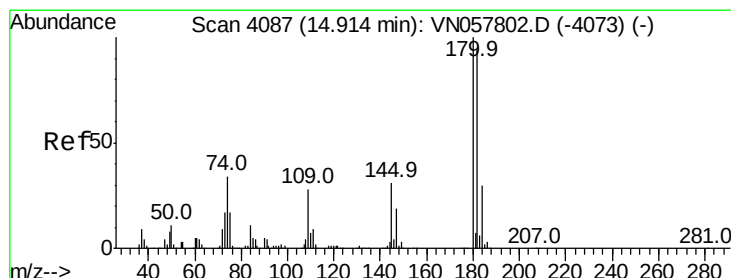
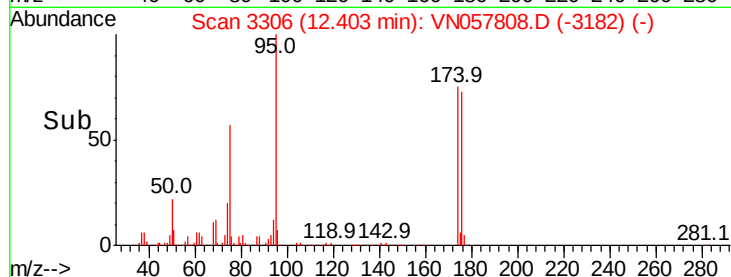
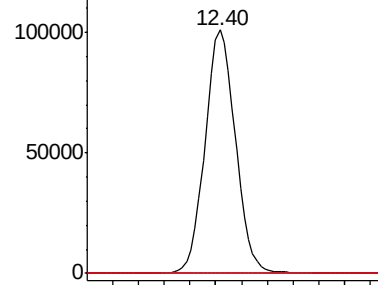
#81
trans-1,4-Dichloro-2-butene
Concen: 108.294 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057808.D
Acq: 9 Sep 2019 18:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 165354
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#

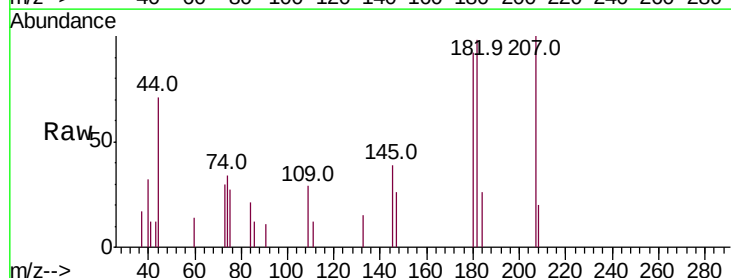


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

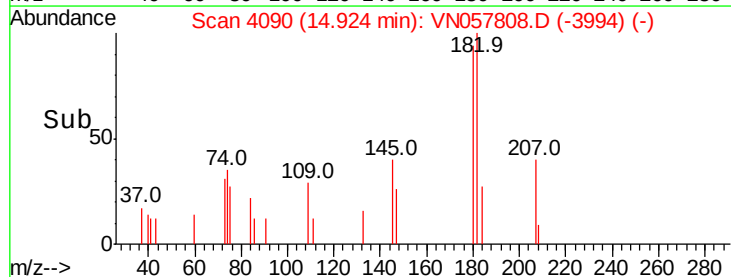
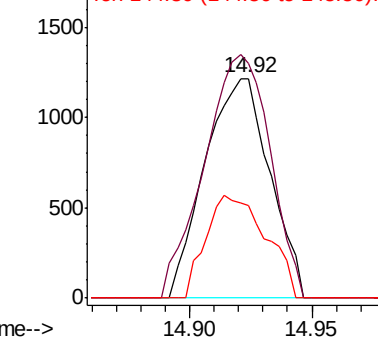


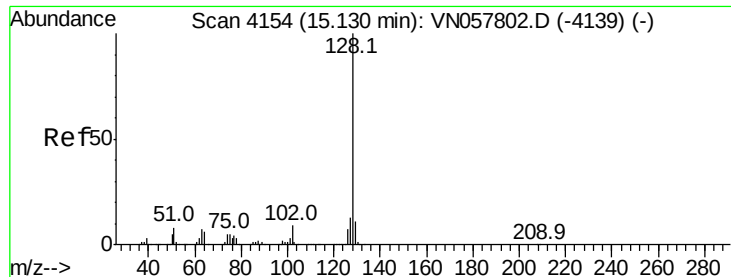
#93
1,2,4-Trichlorobenzene
Concen: 0.408 ug/l
RT: 14.92 min Scan# 4090
Delta R.T. 0.01 min
Lab File: VN057808.D
Acq: 9 Sep 2019 18:22

Tgt Ion: 180 Resp: 2248
Ion Ratio Lower Upper
180 100
182 112.2 46.9 140.8
145 43.2 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

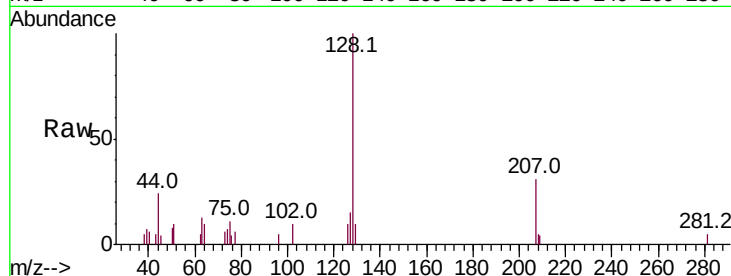
Tot Ion:128 Resp: 8584

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

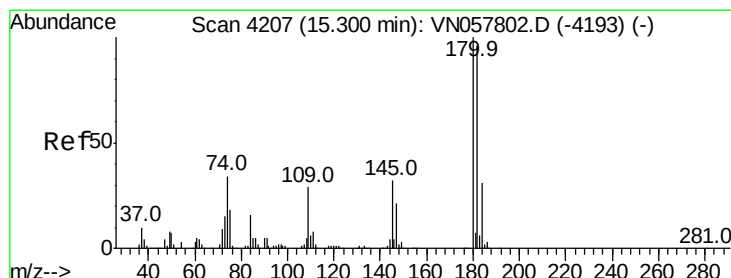
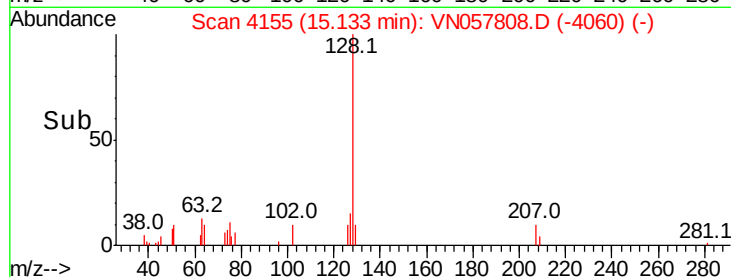
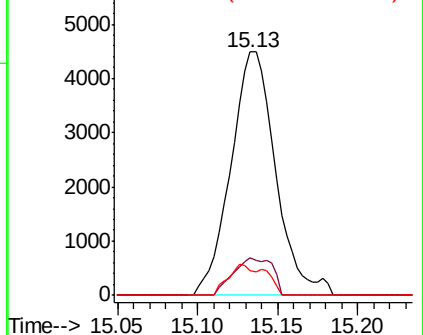
129 7.3 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.518 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057808.D

Acq: 9 Sep 2019 18:22

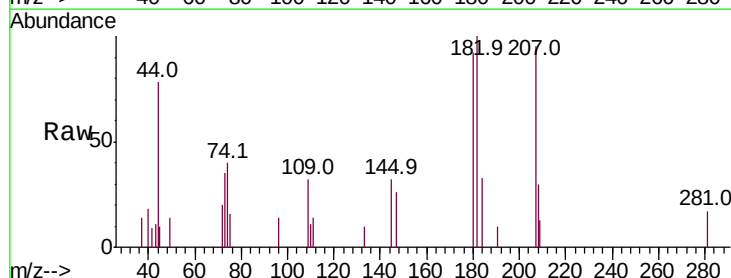
Tgt Ion:180 Resp: 2550

Ion Ratio Lower Upper

180 100

182 99.5 48.3 144.8

145 29.6 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

