

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058068.D
 Acq On : 14 Sep 2019 11:28
 Operator : JC/SP
 Sample : K4863-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 71 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 01:58:37 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	321237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	569900	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	518727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276158	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	389540	59.87	ug/l	0.00
Spiked Amount			Recovery	=	119.74%	
35) Dibromofluoromethane	7.57	113	260503	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
50) Toluene-d8	10.08	98	1040448	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	346802	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	

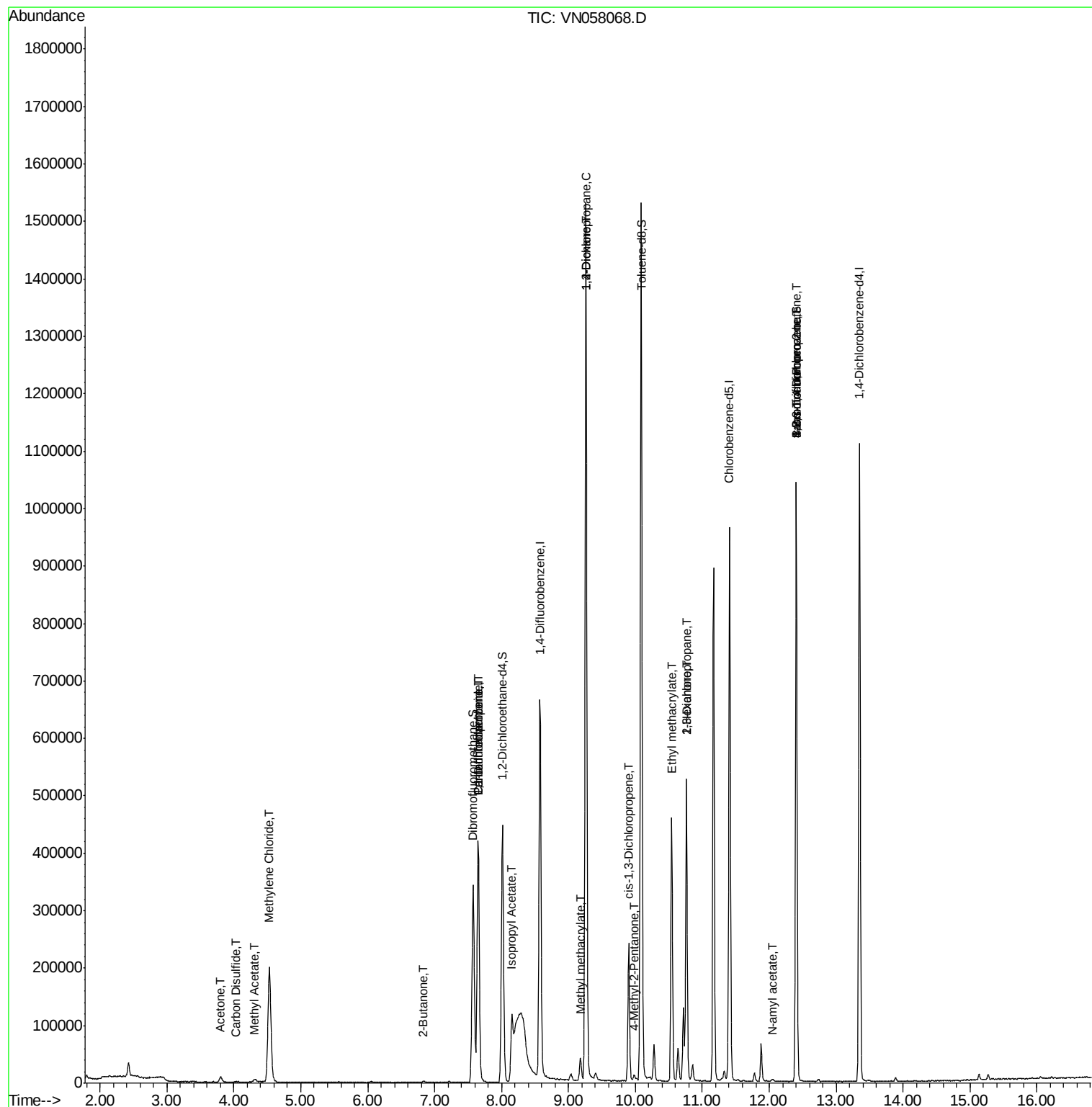
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	187	Below Cal	#	78
16) Acetone	3.80	43	15216	7.134	ug/l	99
17) Carbon Disulfide	4.03	76	269	0.209	ug/l #	75
18) Methyl Acetate	4.32	43	8088	1.422	ug/l	93
20) Methylene Chloride	4.53	84	146558	35.743	ug/l	99
25) 2-Butanone	6.81	43	1275	0.413	ug/l #	49
31) Cyclohexane	7.65	56	8959	Below Cal	#	16
36) 1,1-Dichloropropene	7.65	75	28398	4.297	ug/l #	51
38) Carbon Tetrachloride	7.65	117	33607	5.569	ug/l #	15
43) Isopropyl Acetate	8.15	43	143390	12.487	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1901	0.328	ug/l #	44
48) Methyl methacrylate	9.17	41	5618	0.964	ug/l #	13
49) 1,4-Dioxane	9.26	88	158	1.604	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7108	1.046	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	40984	5.045	ug/l #	64
56) Ethyl methacrylate	10.54	69	1612	0.202	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5292	0.578	ug/l #	43
59) 2-Hexanone	10.76	43	81128	15.927	ug/l #	53
71) Bromoform	12.40	173	917	0.312	ug/l #	1
74) N-amyl acetate	12.04	43	4053	0.435	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	191551	30.662	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	191551	107.900	ug/l #	6
95) Naphthalene	15.14	128	8271	Below Cal		95

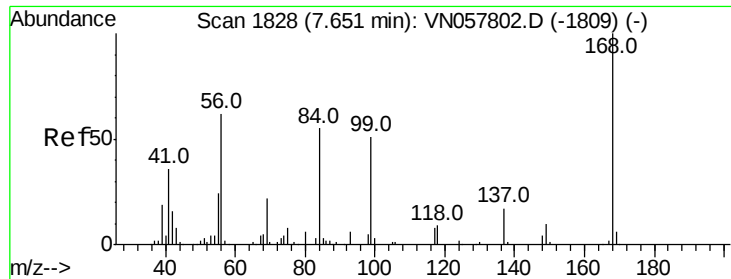
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091419\
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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: VN058068.D

Acq: 14 Sep 2019 11:28

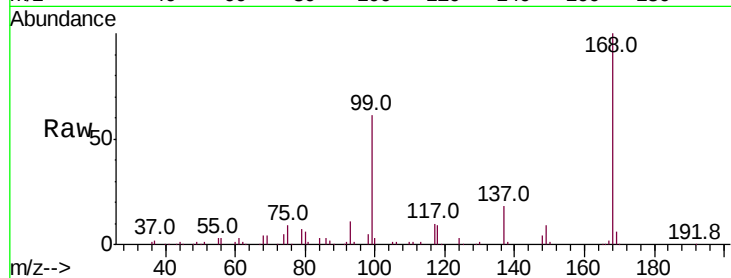
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 321237

Ion Ratio Lower Upper

168 100

99 61.2 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

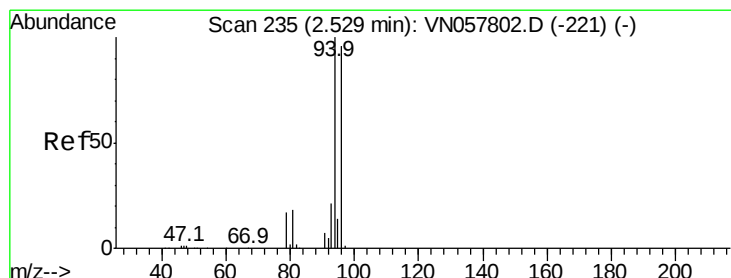
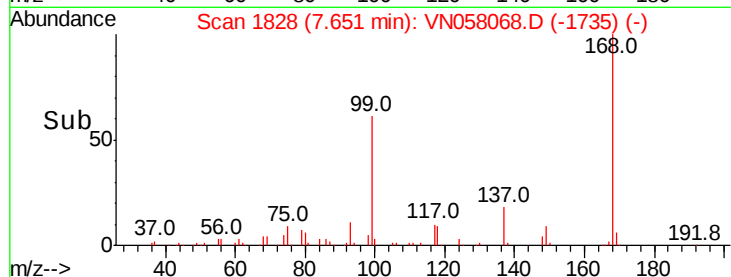
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. 0.03 min

Lab File: VN058068.D

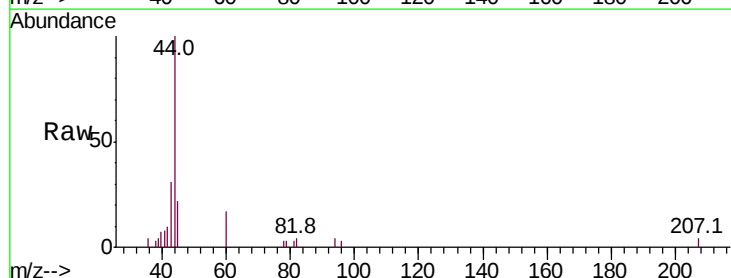
Acq: 14 Sep 2019 11:28

Tgt Ion: 94 Resp: 187

Ion Ratio Lower Upper

94 100

96 74.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

300

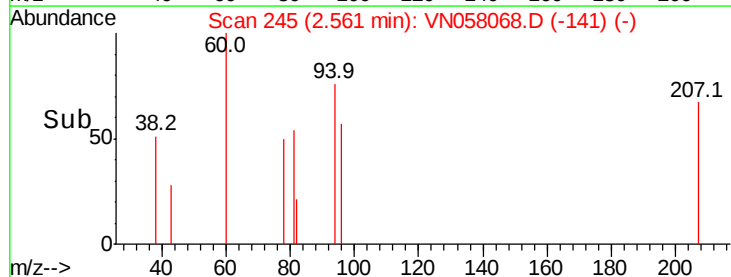
200

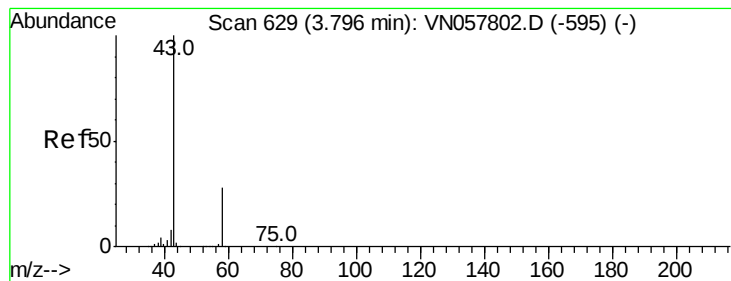
100

0

2.54 2.55 2.56 2.57 2.58

Time-->





#16

Acetone

Concen: 7.134 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

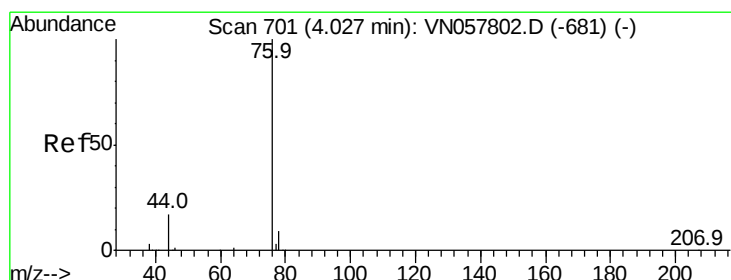
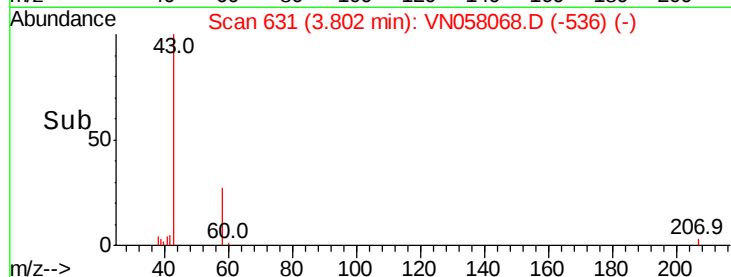
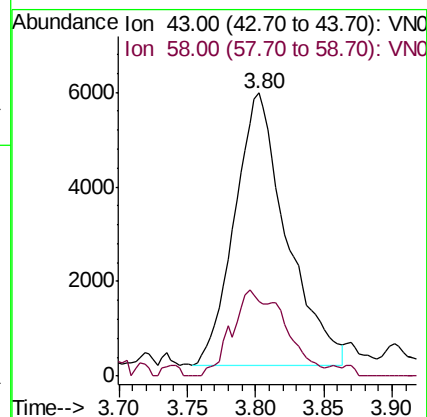
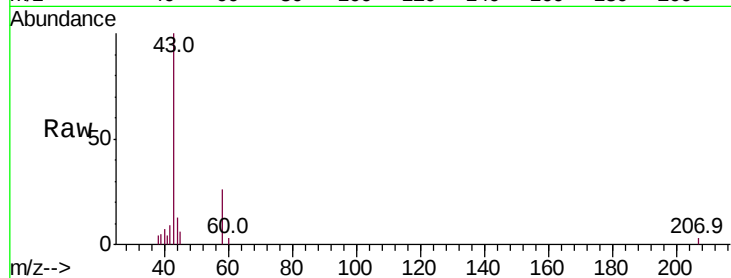
ClientSampled :

Tot Ion: 43 Resp: 15216

Ion Ratio Lower Upper

43 100

58 27.3 22.2 33.2



#17

Carbon Disulfide

Concen: 0.209 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN058068.D

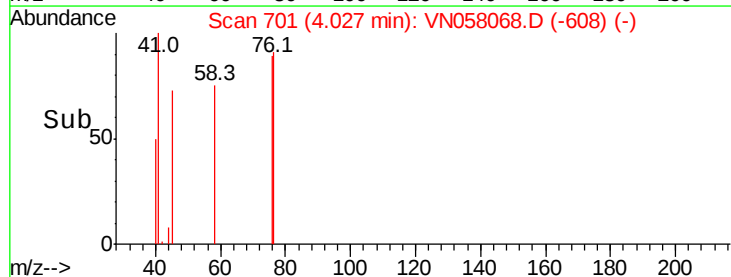
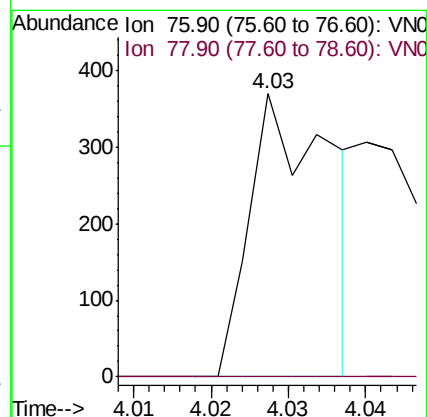
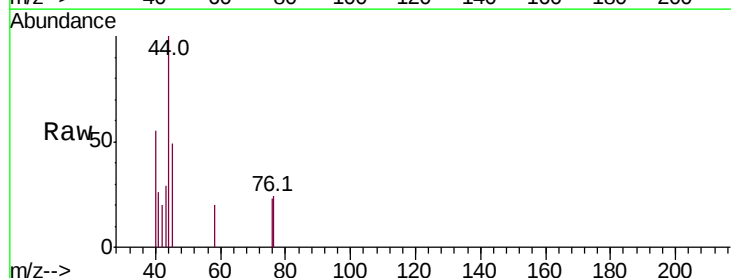
Acq: 14 Sep 2019 11:28

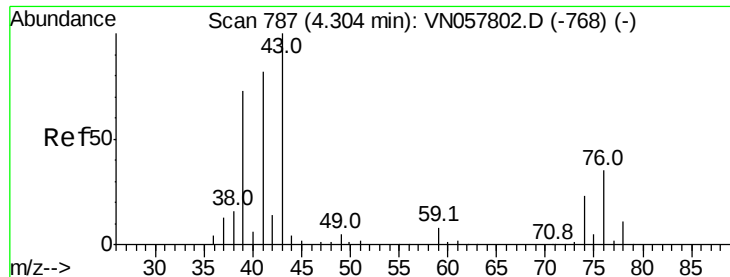
Tgt Ion: 76 Resp: 269

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

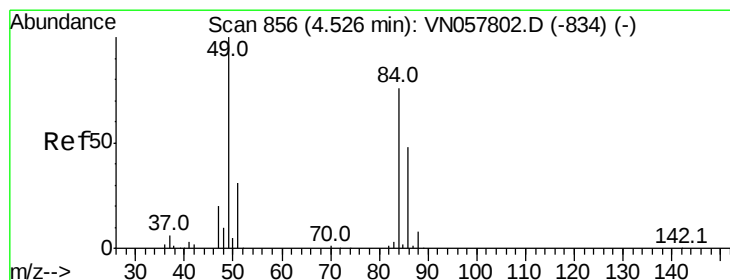
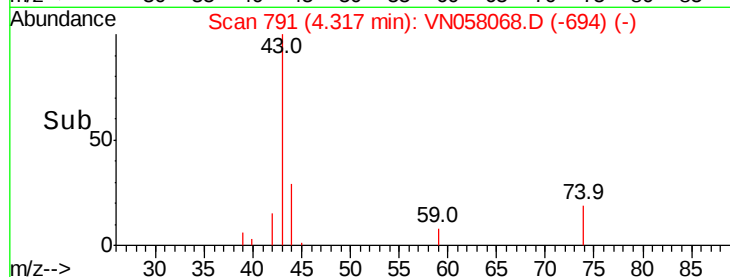
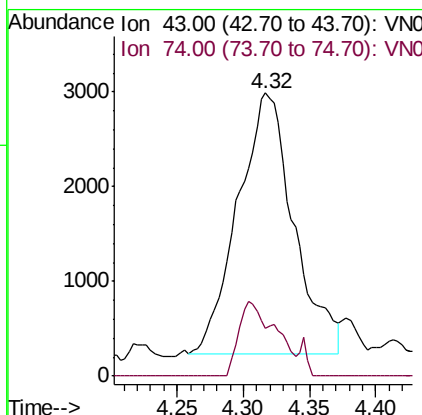
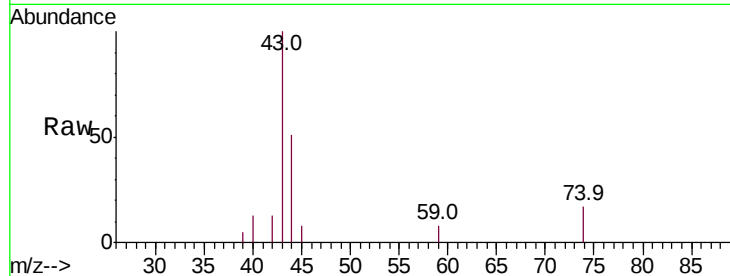




#18
Methyl Acetate
Concen: 1.422 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN058068.D
Acq: 14 Sep 2019 11:28

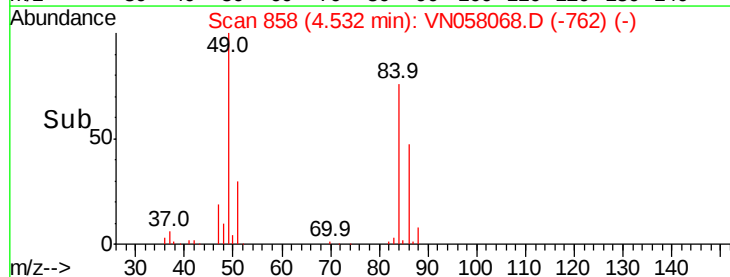
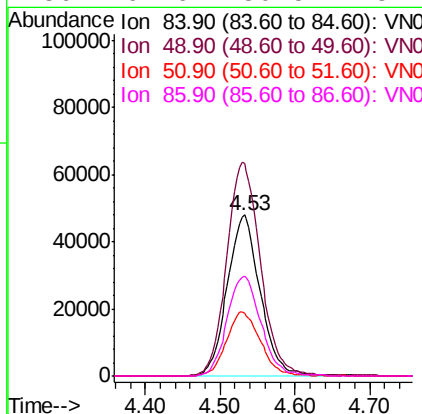
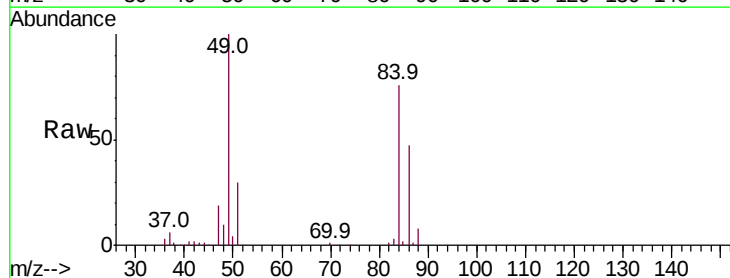
Instrument :
MSVOA_N
ClientSampleId :

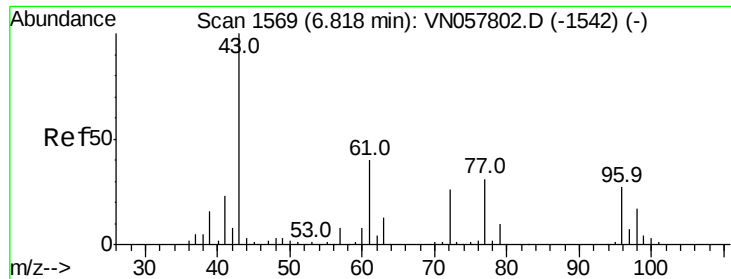
Tot Ion: 43 Resp: 8088
Ion Ratio Lower Upper
43 100
74 18.8 17.9 26.9



#20
Methylene Chloride
Concen: 35.743 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058068.D
Acq: 14 Sep 2019 11:28

Tgt Ion: 84 Resp: 146558
Ion Ratio Lower Upper
84 100
49 131.5 104.8 157.2
51 39.0 33.0 49.4
86 61.6 50.5 75.7





#25

2-Butanone

Concen: 0.413 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

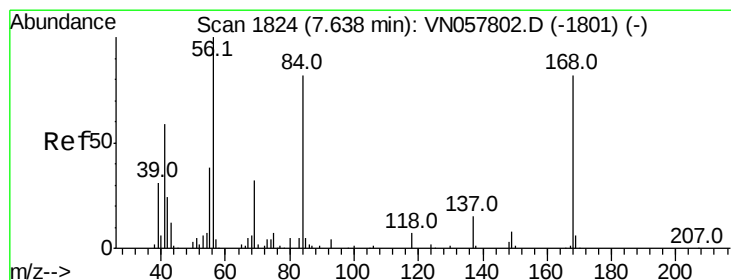
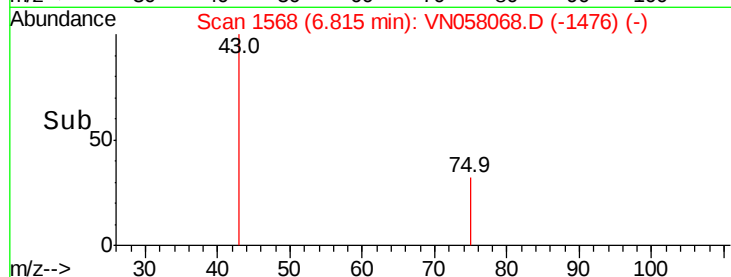
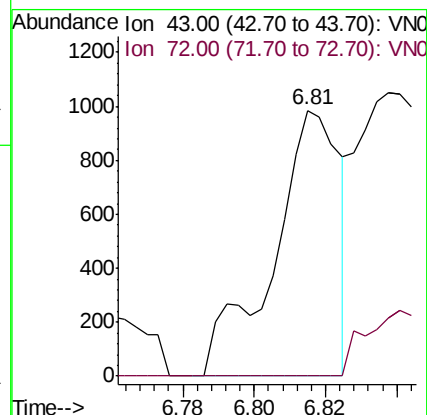
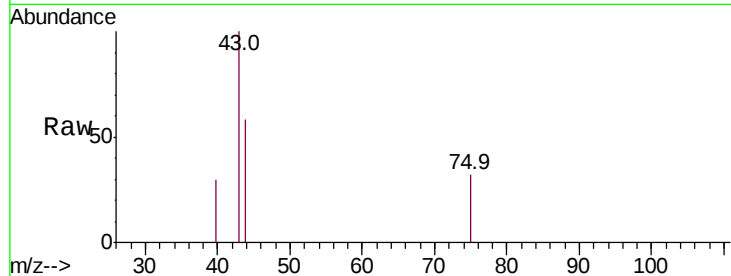
ClientSampleId :

Tot Ion: 43 Resp: 1275

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

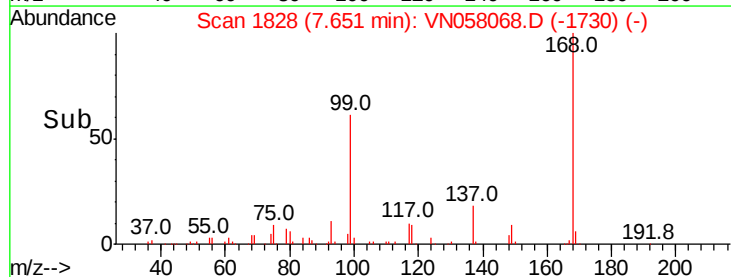
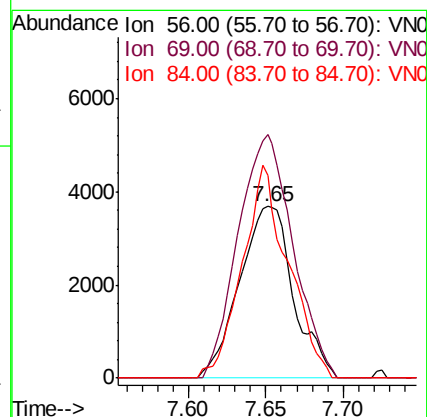
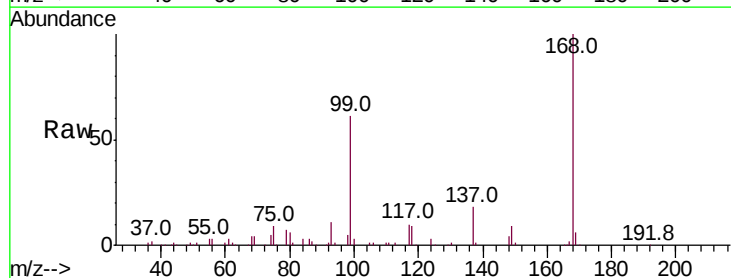
Tgt Ion: 56 Resp: 8959

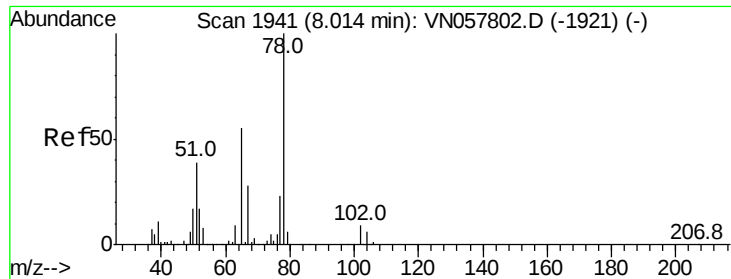
Ion Ratio Lower Upper

56 100

69 141.8 25.9 38.9#

84 117.8 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 59.870 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

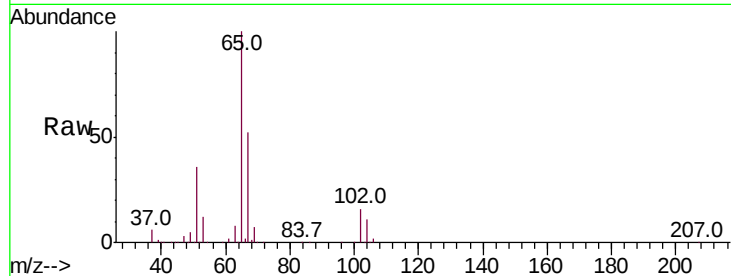
ClientSampleId :

Tot Ion: 65 Resp: 389540

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

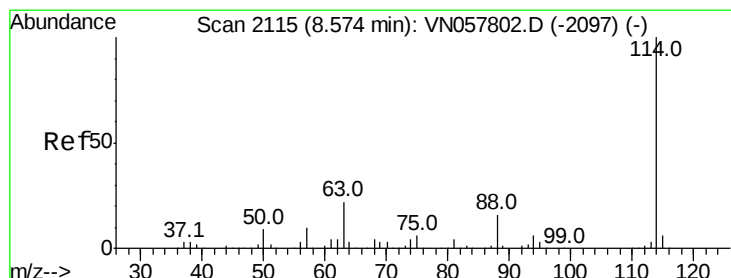
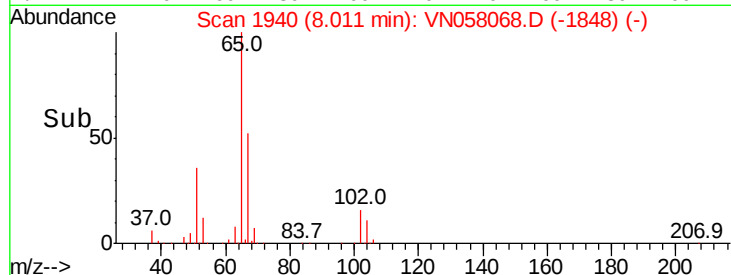
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

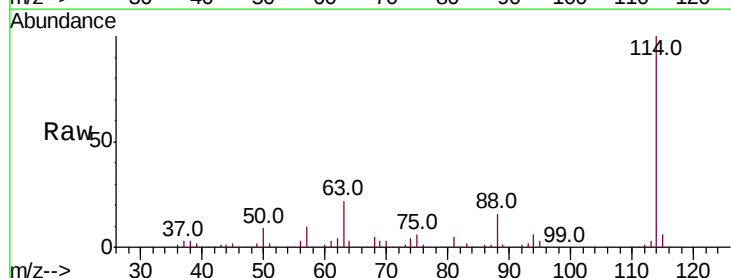
Tgt Ion: 114 Resp: 569900

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 15.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.57

300000

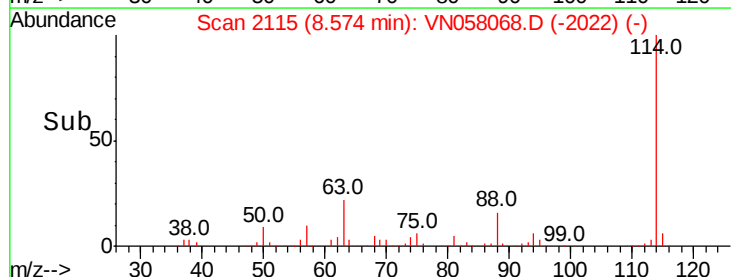
200000

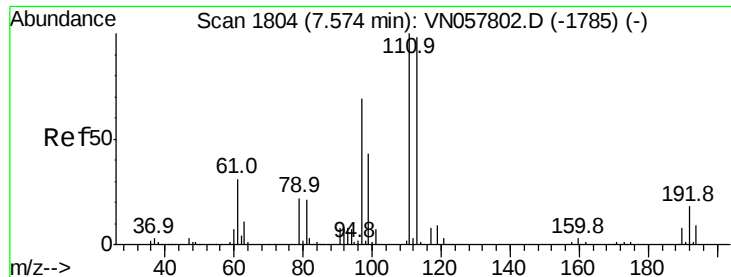
100000

0

8.50 8.60 8.70

Time-->

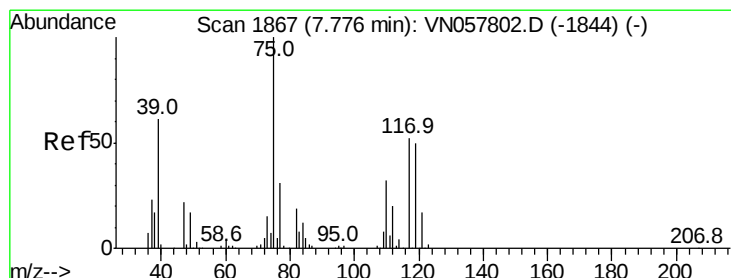
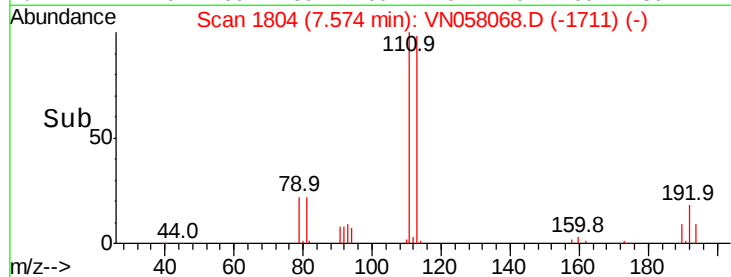
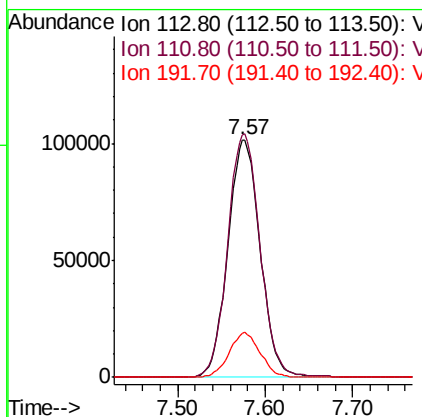
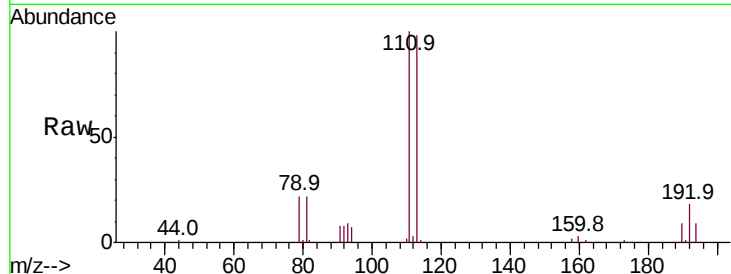




#35
 Dibromofluoromethane
 Concen: 49.526 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058068.D
 Acq: 14 Sep 2019 11:28

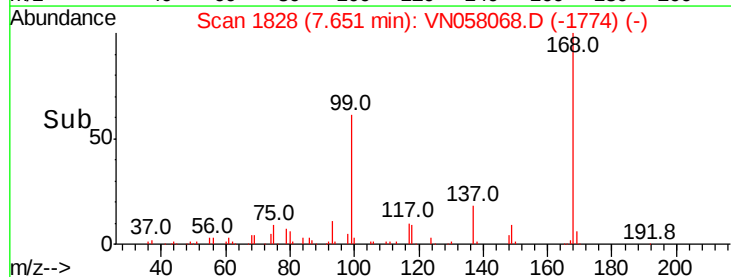
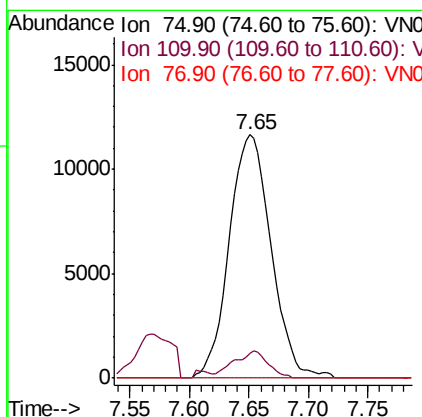
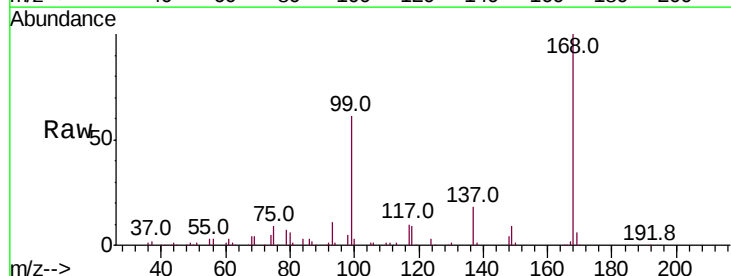
Instrument :
 MSVOA_N
 ClientSampled :

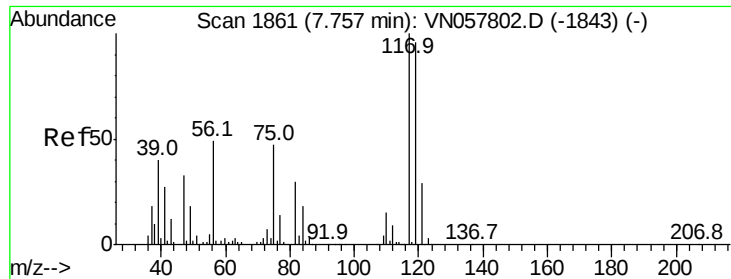
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.3	121.9
192	18.1	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.297 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058068.D
 Acq: 14 Sep 2019 11:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.569 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

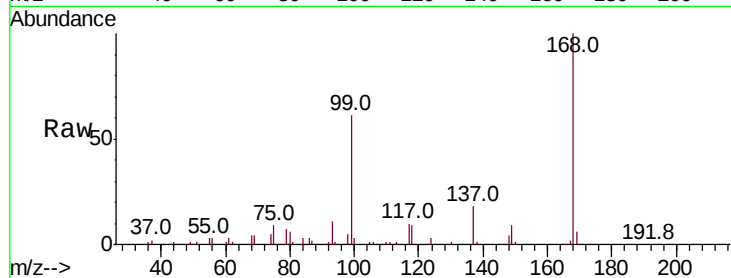
Tot Ion:117 Resp: 33607

Ion Ratio Lower Upper

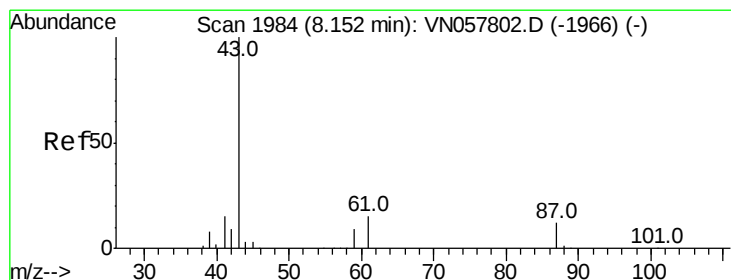
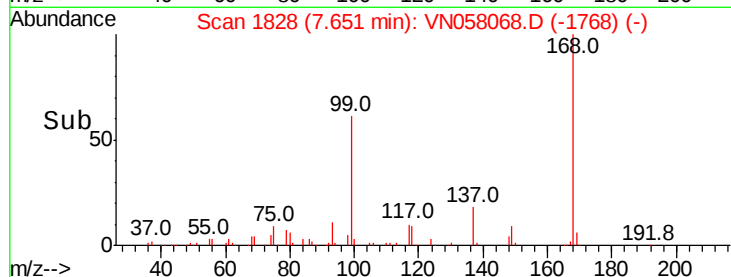
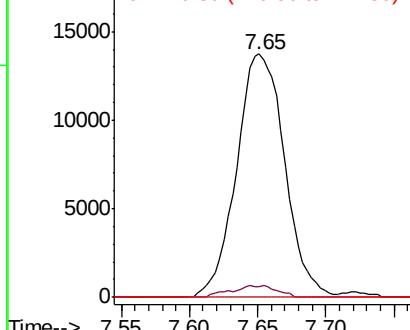
117 100

119 4.4 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: 12.487 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

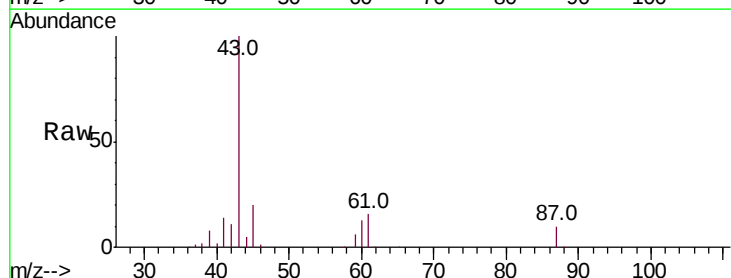
Tgt Ion: 43 Resp: 143390

Ion Ratio Lower Upper

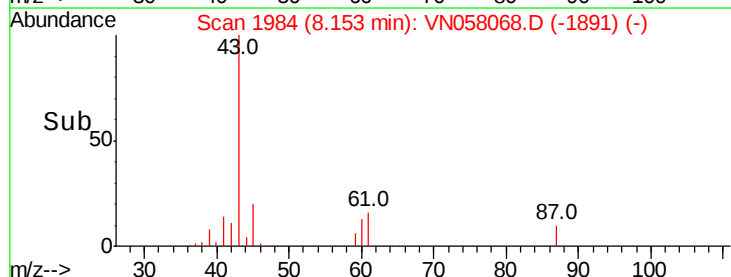
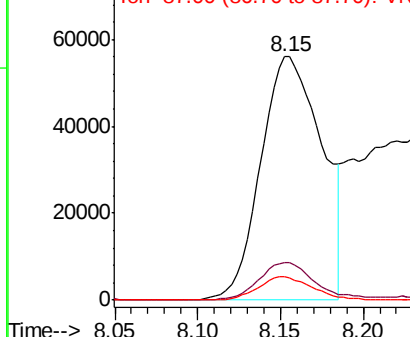
43 100

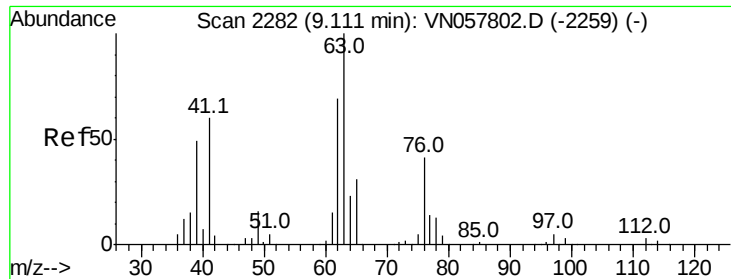
61 14.2 20.1 30.1#

87 8.7 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

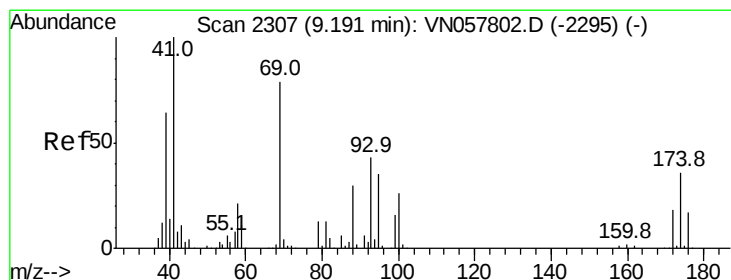
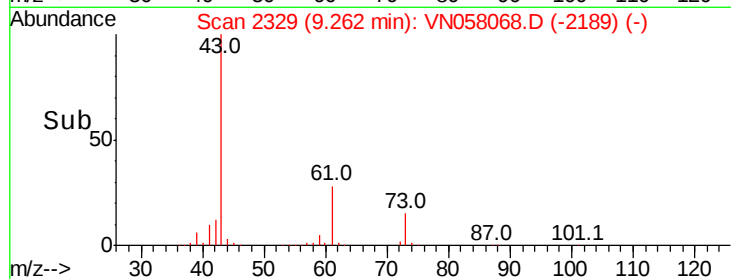
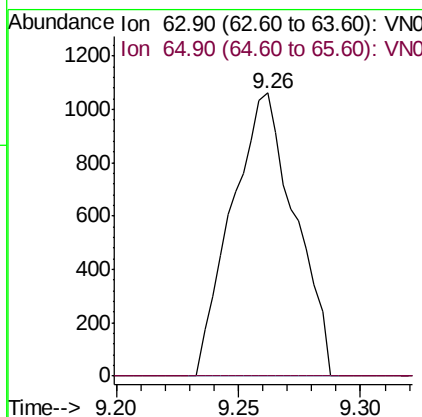
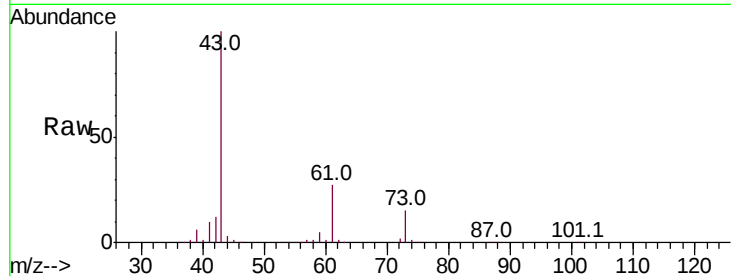




#45
 1,2-Dichloropropane
 Concen: 0.328 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058068.D
 Acq: 14 Sep 2019 11:28

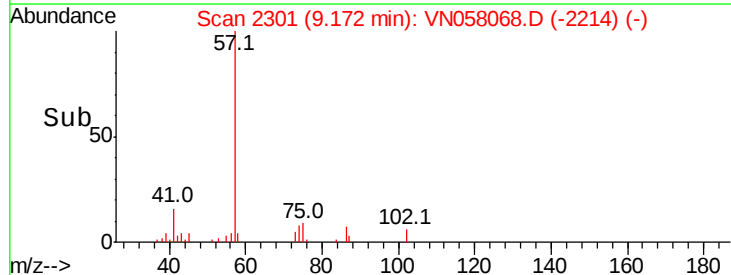
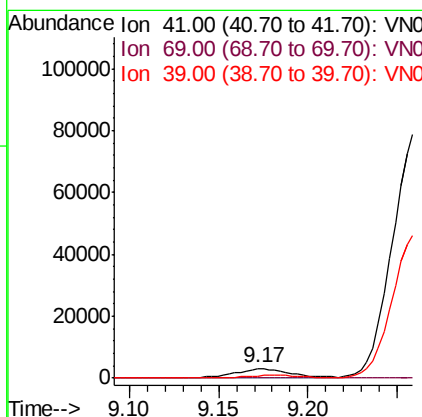
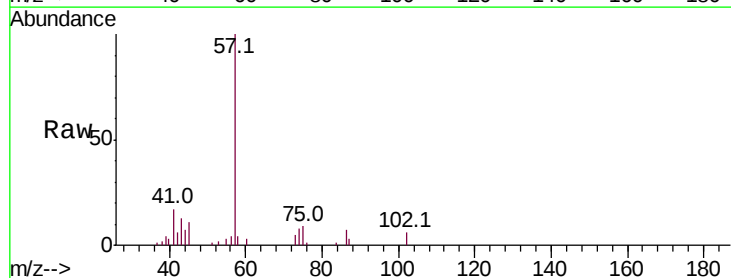
Instrument :
 MSVOA_N
 ClientSampleId :

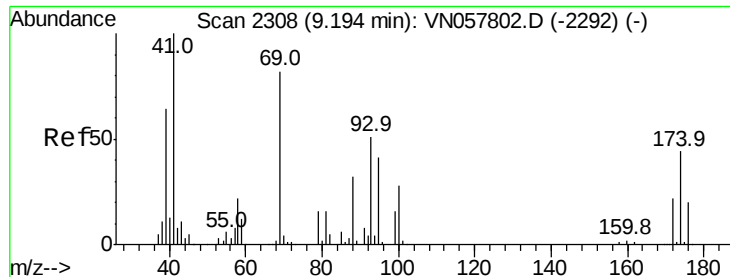
Tot Ion: 63 Resp: 1901
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.964 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058068.D
 Acq: 14 Sep 2019 11:28

Tgt Ion: 41 Resp: 5618
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 1.604 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :
MSVOA_N
ClientSampled :

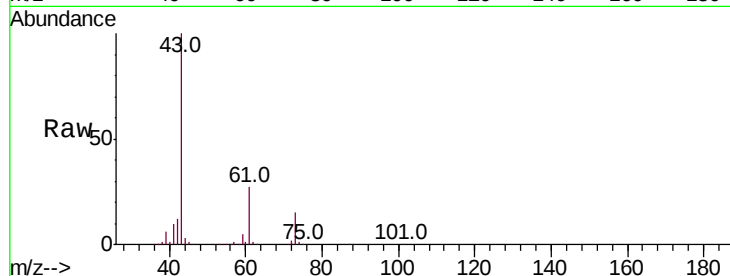
Tot Ion: 88 Resp: 158

Ion Ratio Lower Upper

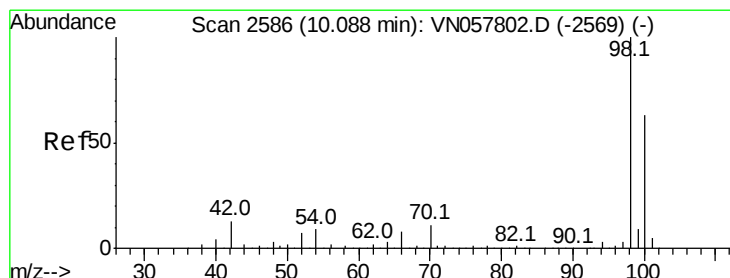
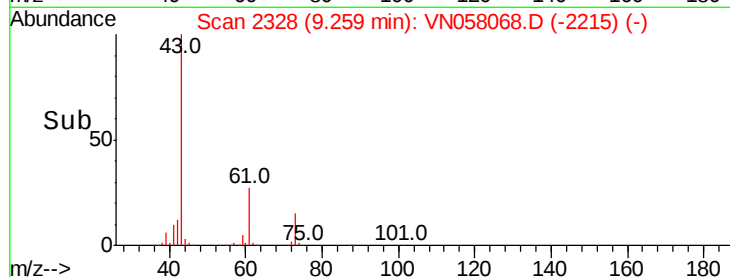
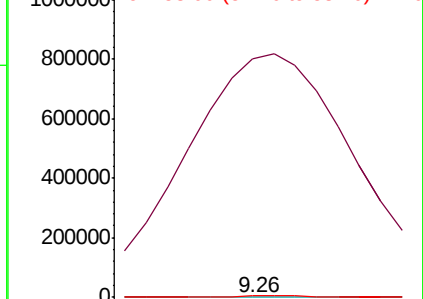
88 100

43 966868.4 28.5 42.7#

58 4661.4 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.948 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058068.D

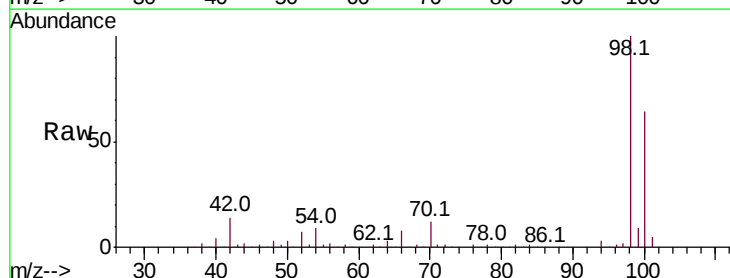
Acq: 14 Sep 2019 11:28

Tgt Ion: 98 Resp: 1040448

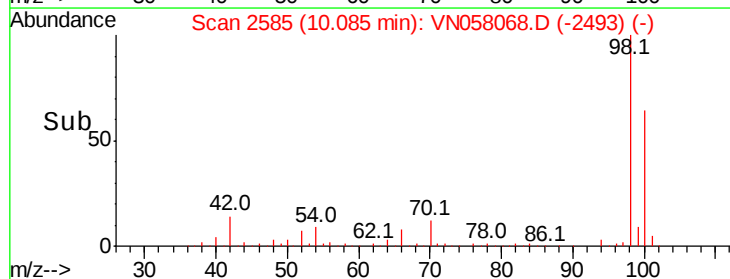
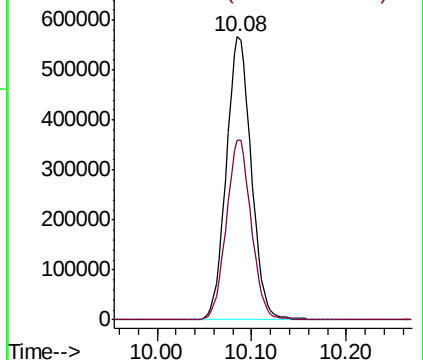
Ion Ratio Lower Upper

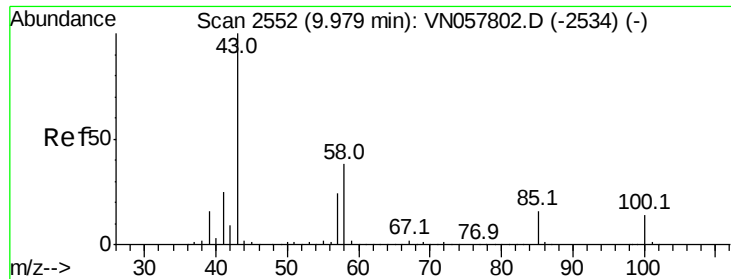
98 100

100 63.4 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.046 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

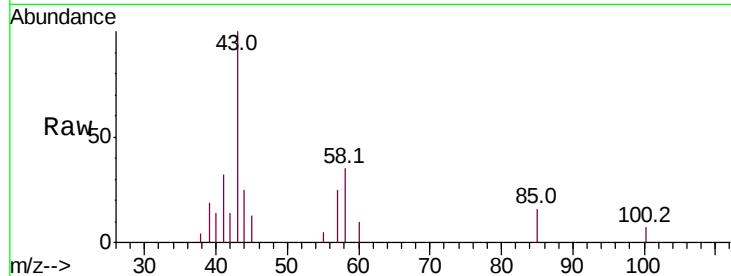
ClientSampled :

Tot Ion: 43 Resp: 7108

Ion Ratio Lower Upper

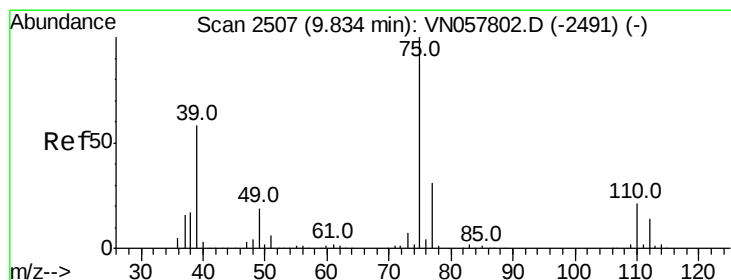
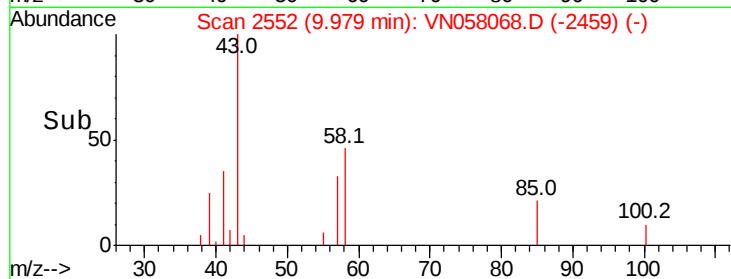
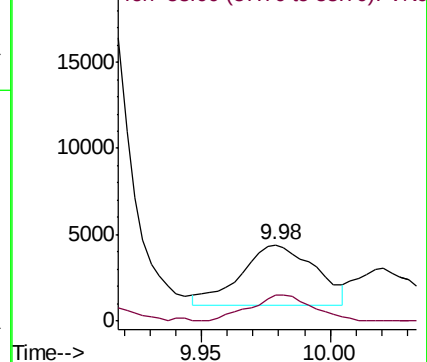
43 100

58 36.5 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.045 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

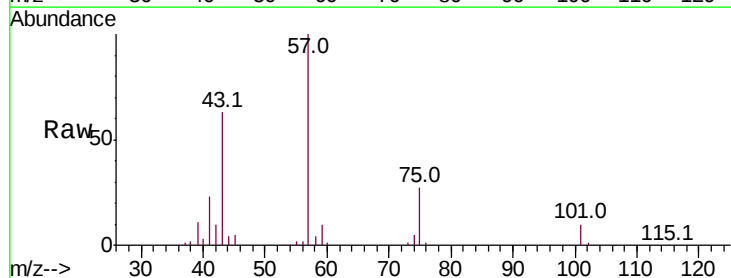
Tgt Ion: 75 Resp: 40984

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

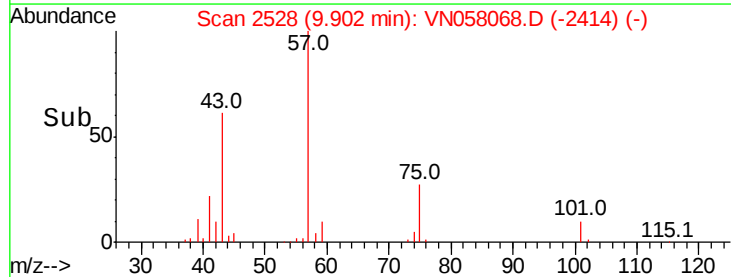
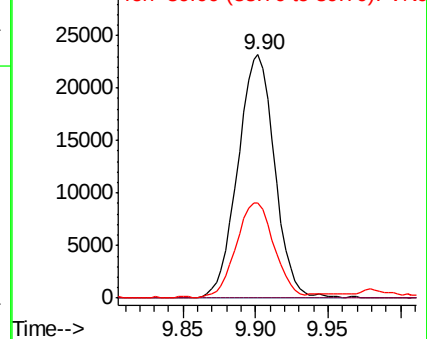
39 39.2 46.2 69.4#

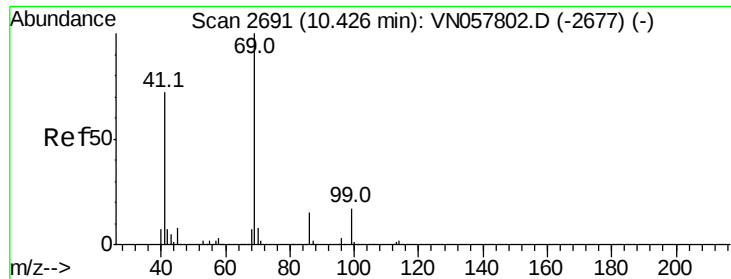


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.202 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

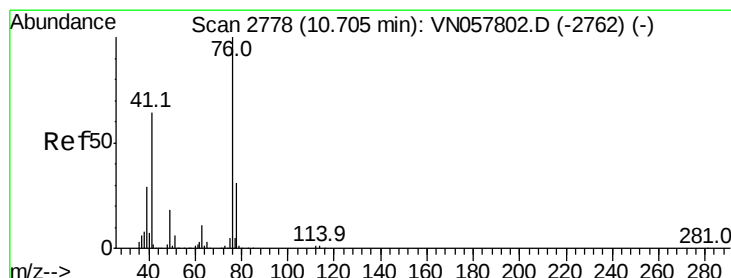
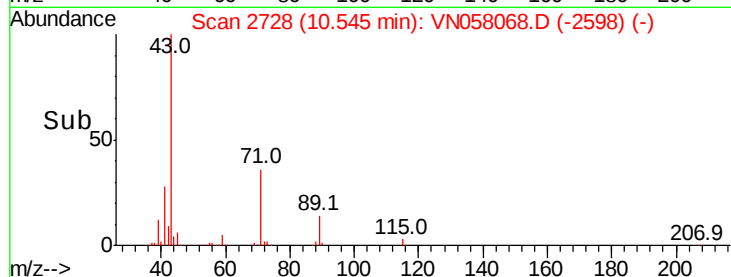
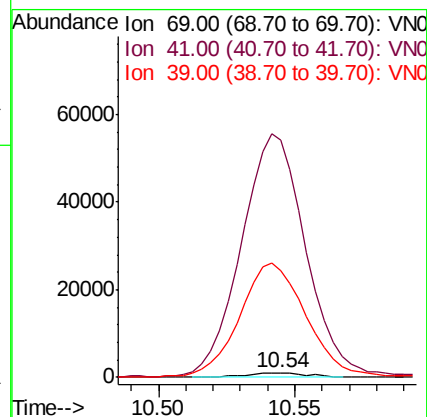
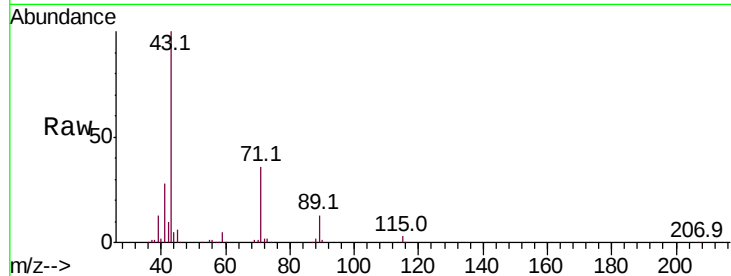
Tot Ion: 69 Resp: 1612

Ion Ratio Lower Upper

69 100

41 5616.6 56.7 85.1#

39 2786.0 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.578 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058068.D

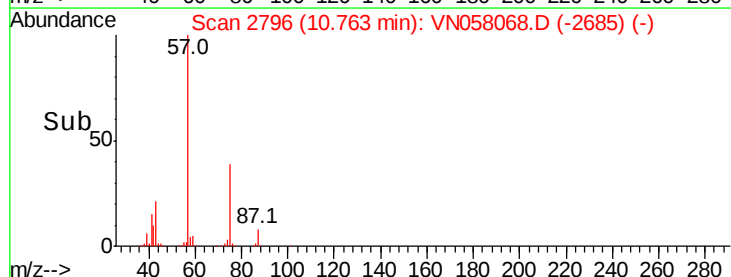
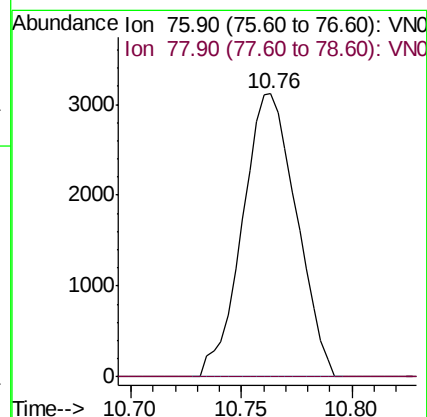
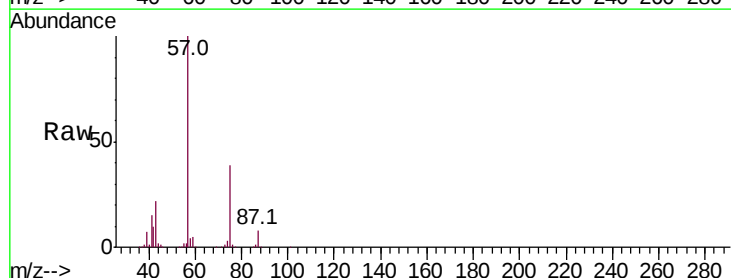
Acq: 14 Sep 2019 11:28

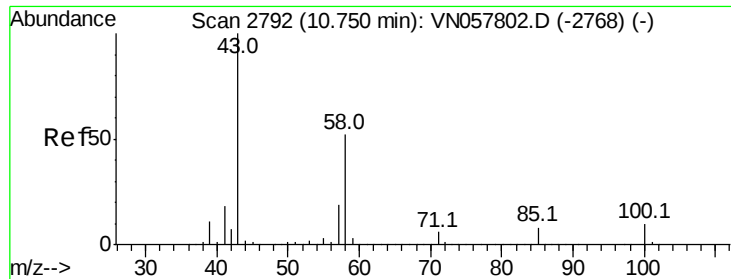
Tgt Ion: 76 Resp: 5292

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 15.927 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

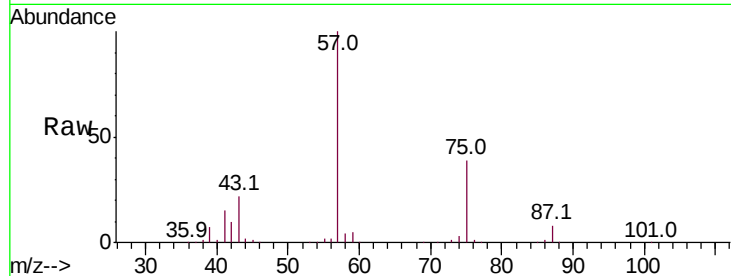
ClientSampleId :

Tot Ion: 43 Resp: 81128

Ion Ratio Lower Upper

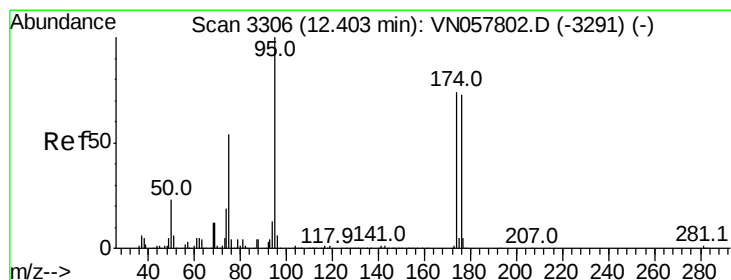
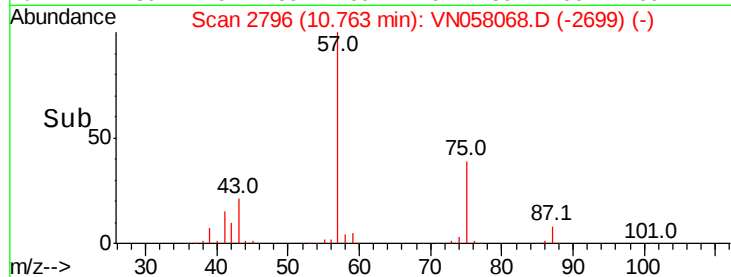
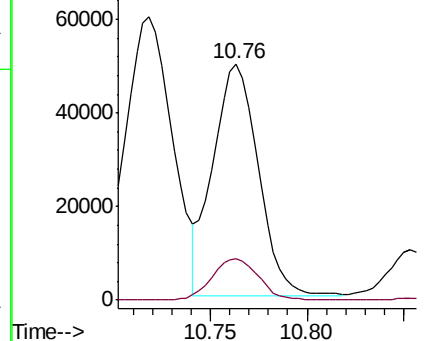
43 100

58 18.3 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.561 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

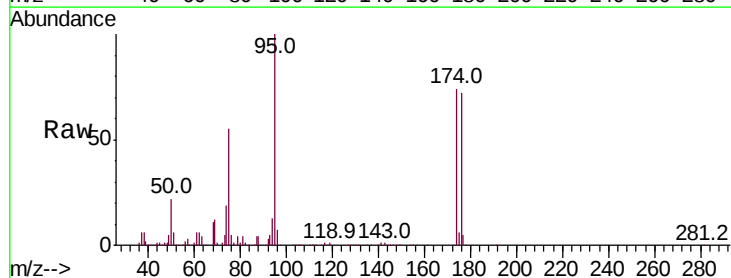
Tgt Ion: 95 Resp: 346802

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

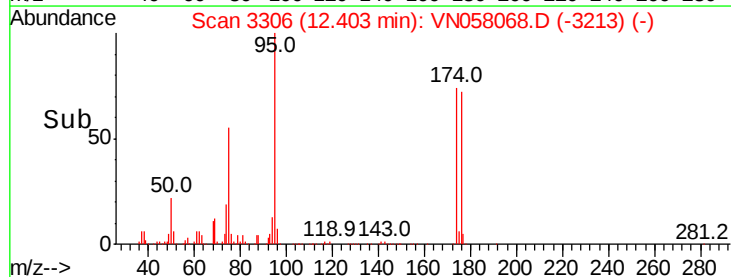
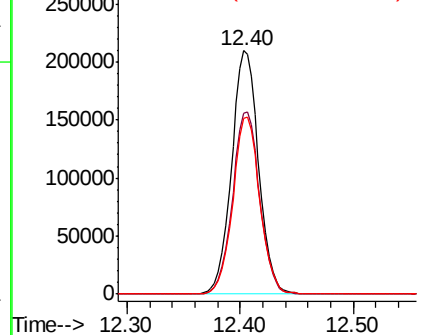
176 72.6 0.0 146.0

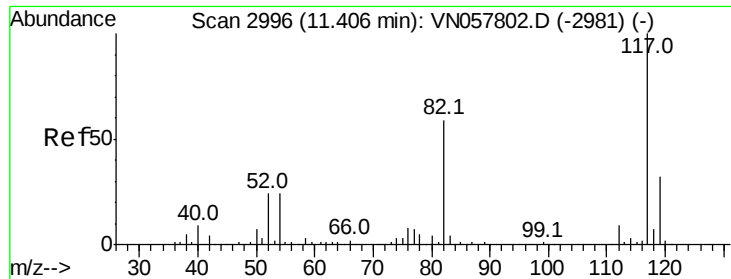


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

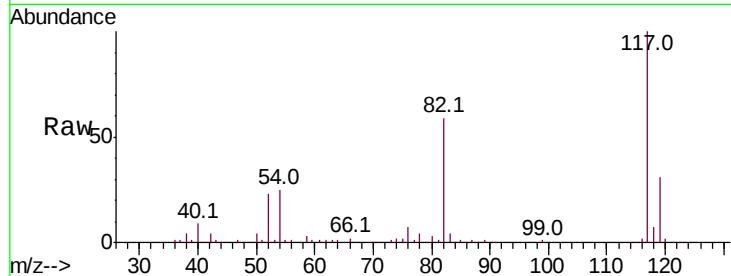




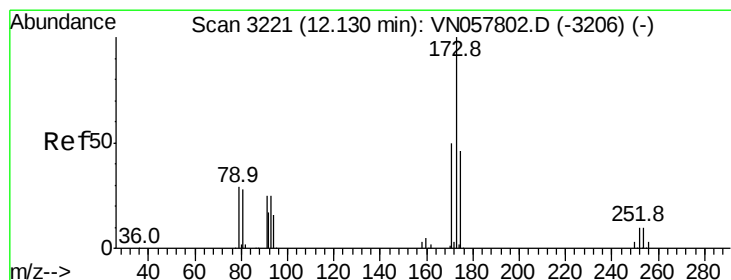
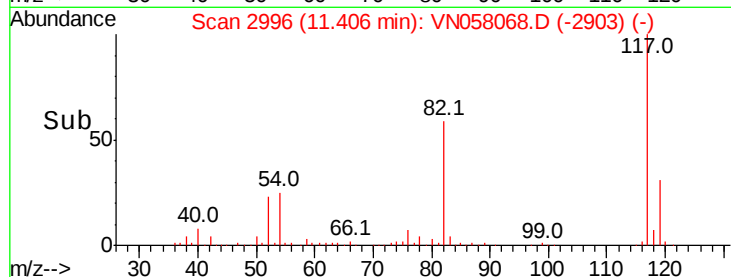
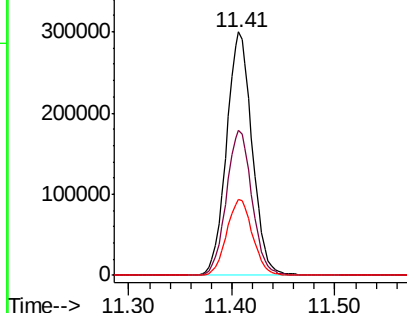
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058068.D
Acq: 14 Sep 2019 11:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 518727
Ion Ratio Lower Upper
117 100
82 59.3 47.2 70.8
119 30.9 25.3 37.9

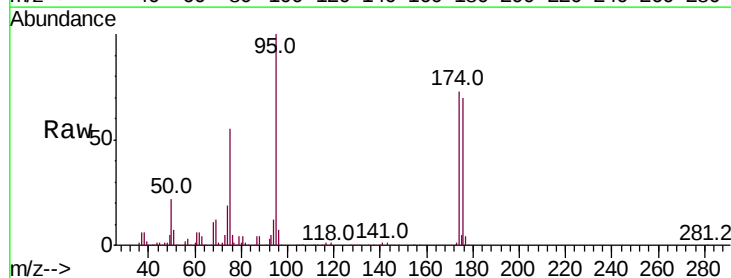


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

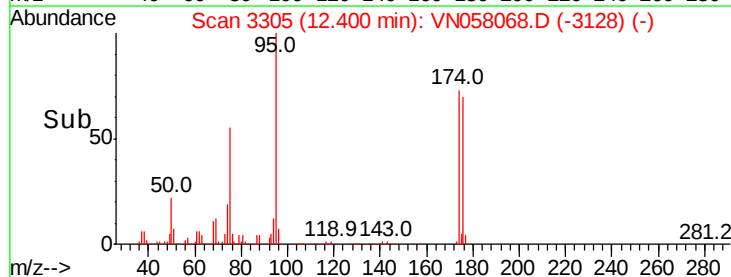
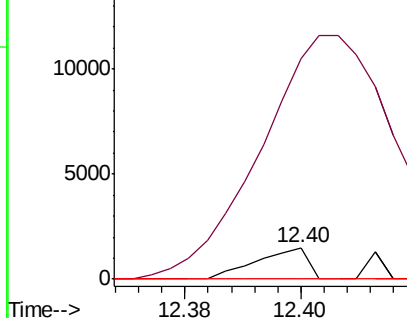


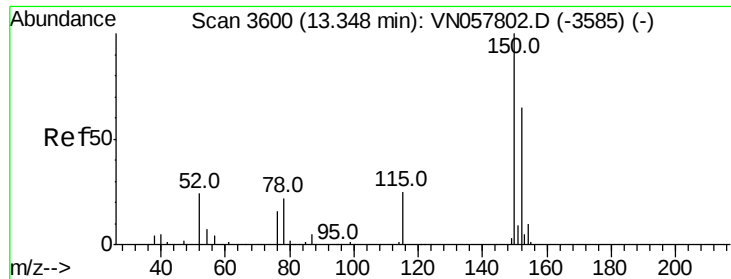
#71
Bromoform
Concen: 0.312 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN058068.D
Acq: 14 Sep 2019 11:28

Tgt Ion:173 Resp: 917
Ion Ratio Lower Upper
173 100
175 1822.9 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: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

ClientSampleId :

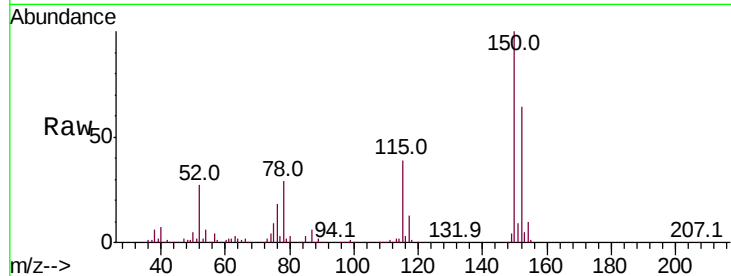
Tot Ion:152 Resp: 276158

Ion Ratio Lower Upper

152 100

115 61.1 30.3 91.0

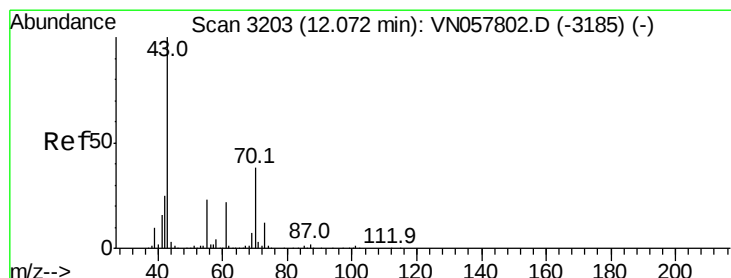
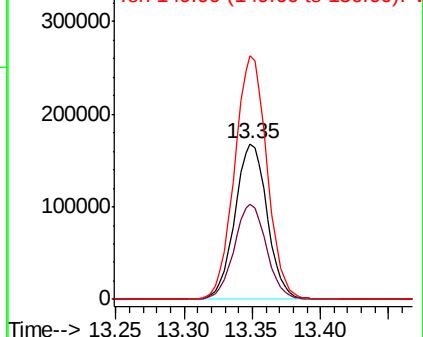
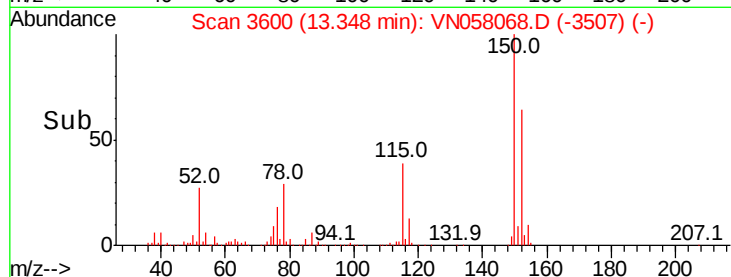
150 157.5 0.0 352.4



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: 0.435 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Tgt Ion: 43 Resp: 4053

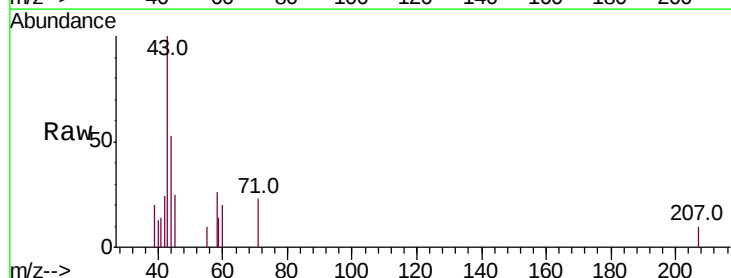
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.9 18.6 27.8#

61 0.0 17.4 26.2#

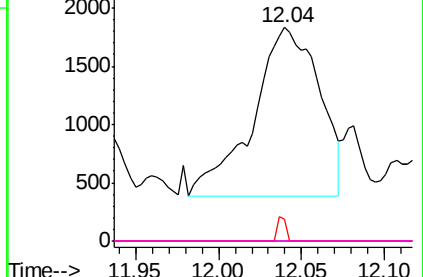
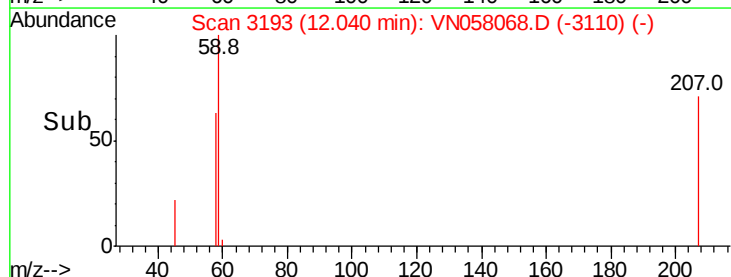


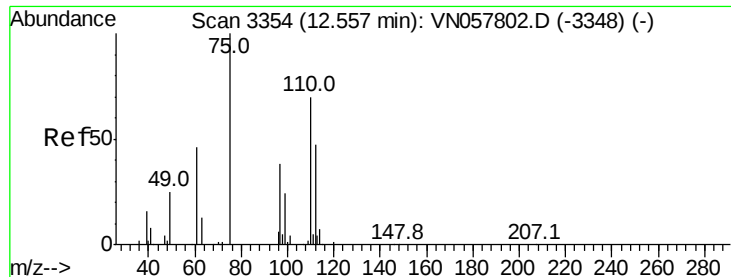
Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC





#76

1,2,3-Trichloropropane

Concen: 30.662 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

Instrument :

MSVOA_N

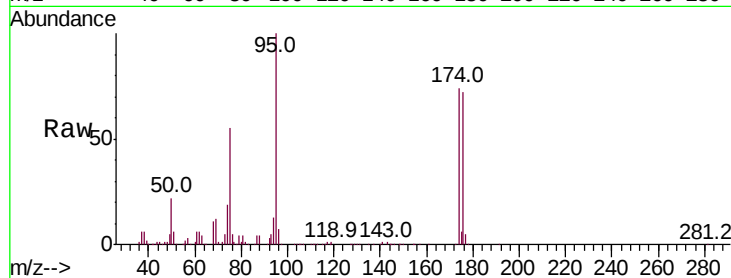
ClientSampled :

Tot Ion: 75 Resp: 191551

Ion Ratio Lower Upper

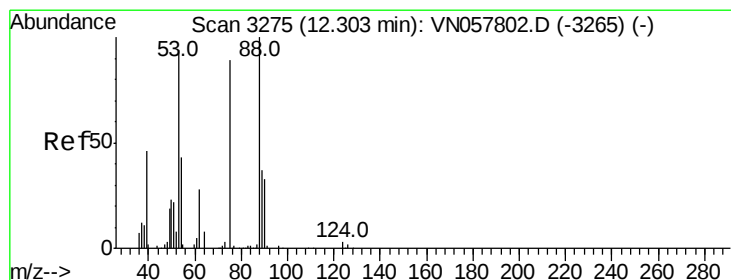
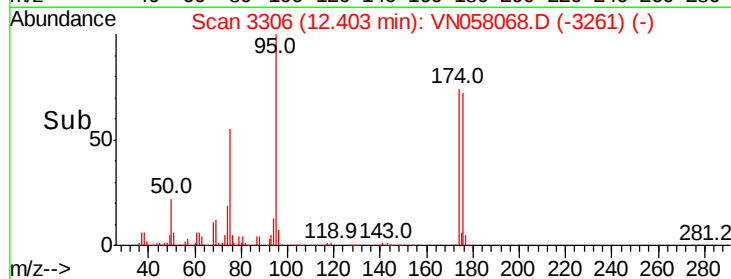
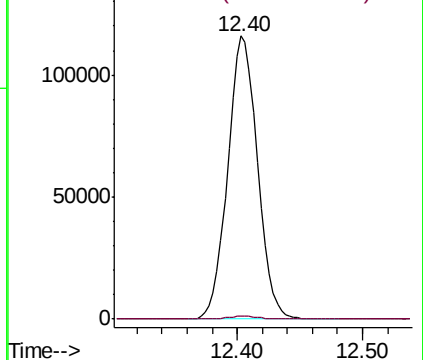
75 100

77 1.1 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: 107.900 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058068.D

Acq: 14 Sep 2019 11:28

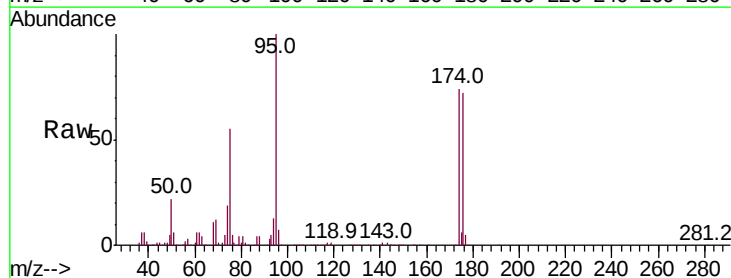
Tgt Ion: 75 Resp: 191551

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

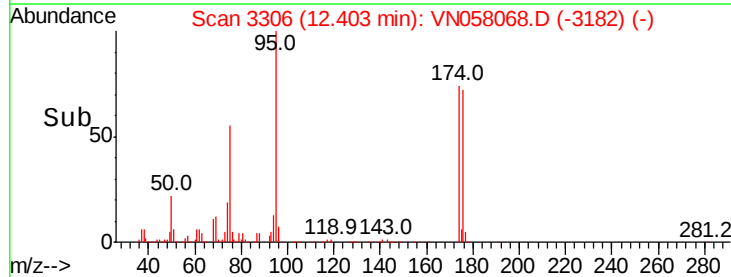
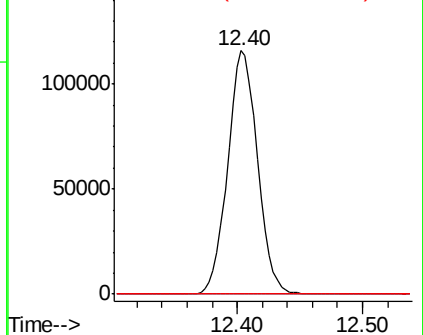
89 0.0 35.3 52.9#

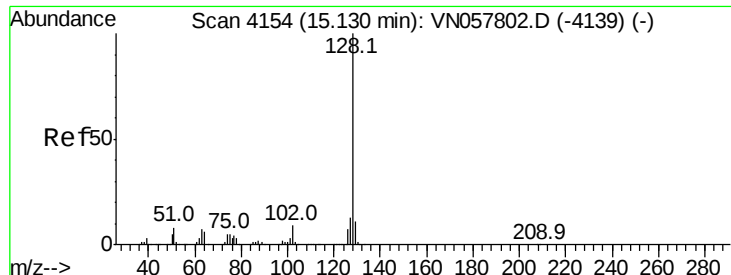


Abundance Ion 74.90 (74.60 to 75.60): VN0

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# 4156
Delta R.T. 0.01 min
Lab File: VN058068.D
Acq: 14 Sep 2019 11:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 8271
Ion Ratio Lower Upper
128 100
127 11.1 10.3 15.5
129 8.6 8.6 12.8

