

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112919\
 Data File : VN059438.D
 Acq On : 29 Nov 2019 11:20
 Operator : JC/SP
 Sample : VN1129WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 22:24:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112719W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 16:56:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	350745	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	535806	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	455278	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	165606	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	200093	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
35) Dibromofluoromethane	7.57	113	163768	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
50) Toluene-d8	10.08	98	645132	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	200654	44.32	ug/l	0.00
Spiked Amount			Recovery	=	88.64%	

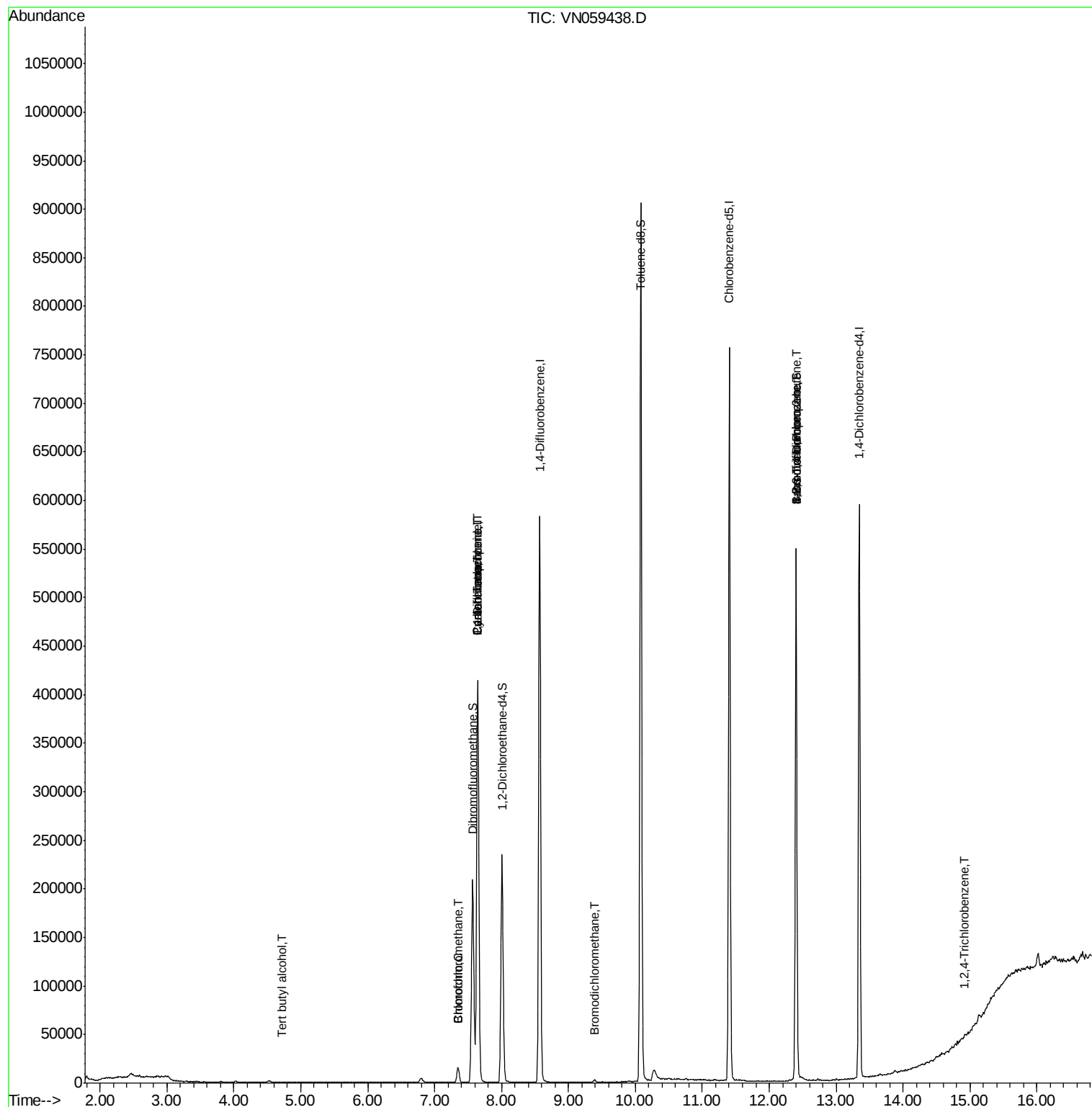
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	221	0.310	ug/l #	85
28) Bromochloromethane	7.35	49	1123	1.658	ug/l #	14
30) Chloroform	7.35	83	16791	2.417	ug/l	98
31) Cyclohexane	7.64	56	6420	0.928	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	25358	4.921	ug/l #	49
38) Carbon Tetrachloride	7.64	117	32052	6.591	ug/l #	16
47) Bromodichloromethane	9.39	83	2199	0.440	ug/l #	80
70) Styrene	11.97	104	100	Below Cal	#	26
71) Bromoform	12.40	173	986	0.387	ug/l #	1
74) N-amyl acetate	12.07	43	448	Below Cal	#	42
76) 1,2,3-Trichloropropane	12.40	75	96130	25.659	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	96130	65.930	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.27	75	273	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	763	0.235	ug/l	95
95) Naphthalene	15.13	128	3738	Below Cal	#	92
96) 1,2,3-Trichlorobenzene	15.30	180	1346	Below Cal	#	69

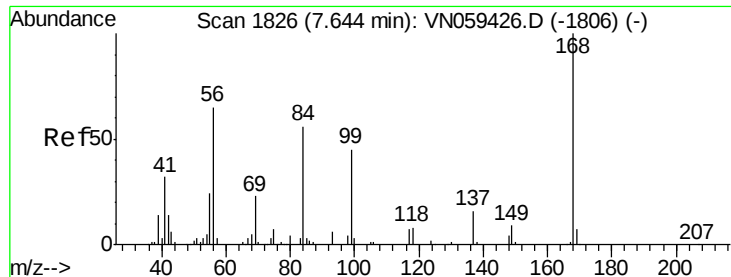
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 27 16:56:05 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

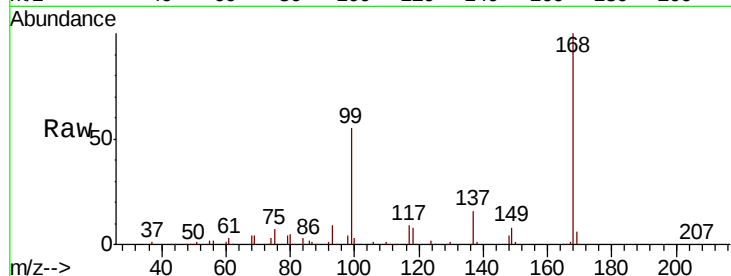
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 350745

Ion Ratio Lower Upper

168 100

99 54.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

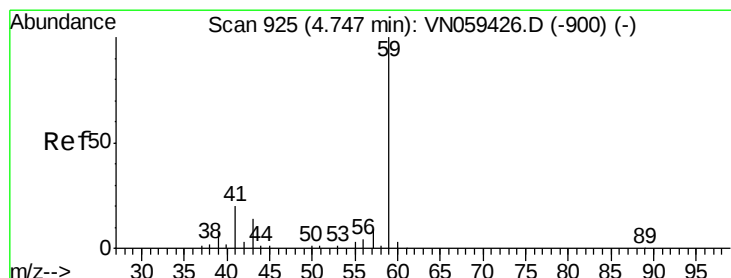
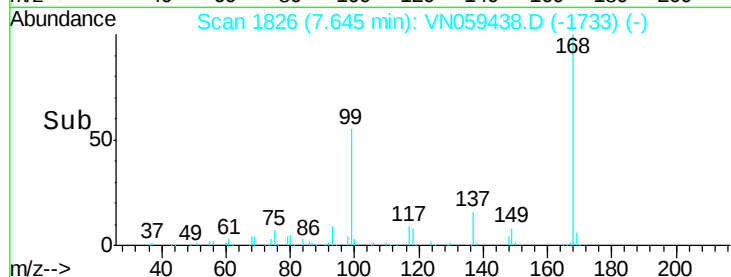
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.310 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.03 min

Lab File: VN059438.D

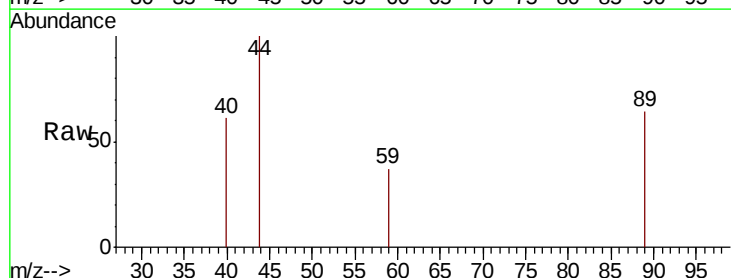
Acq: 29 Nov 2019 11:20

Tgt Ion: 59 Resp: 221

Ion Ratio Lower Upper

59 100

57 0.0 3.8 5.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.72

200

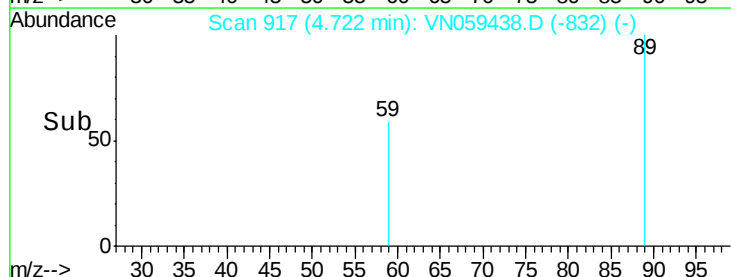
150

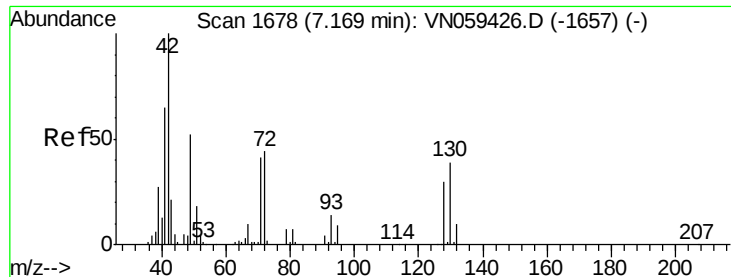
100

50

0

Time--> 4.70 4.72 4.74





#28

Bromochloromethane

Concen: 1.658 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. 0.18 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :
MSVOA_N
ClientSampleId :

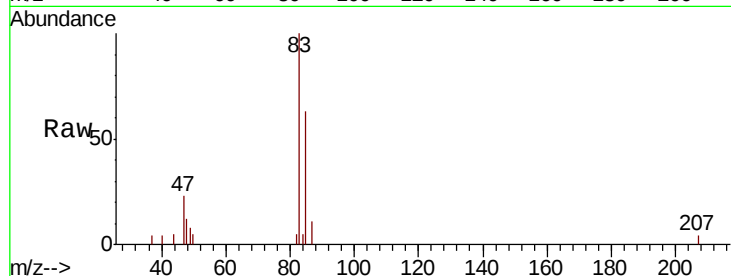
Tot Ion: 49 Resp: 1123

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

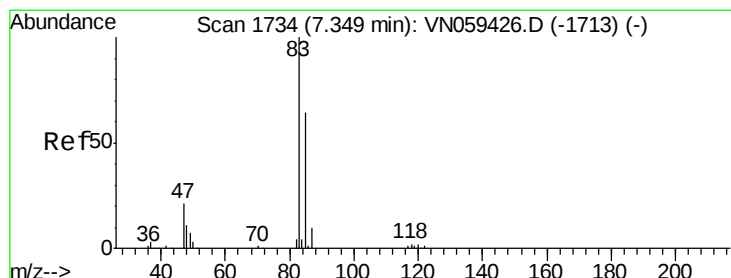
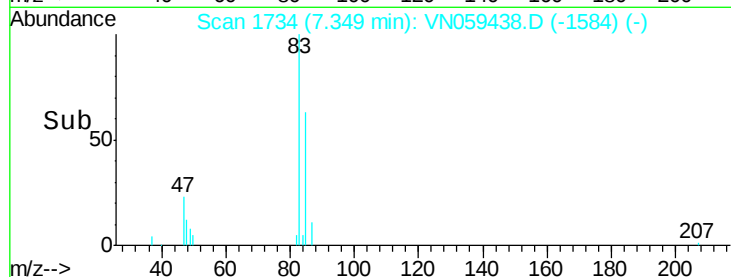
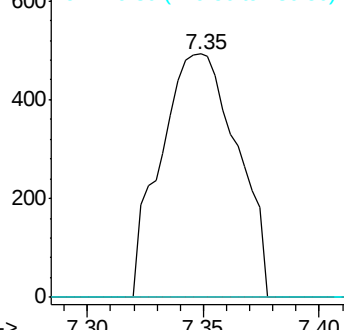
130 0.0 60.5 90.7#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 2.417 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. 0.00 min

Lab File: VN059438.D

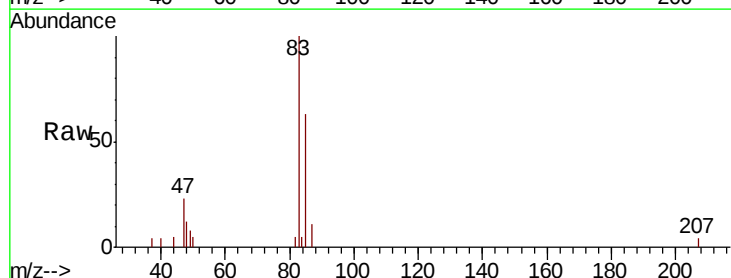
Acq: 29 Nov 2019 11:20

Tgt Ion: 83 Resp: 16791

Ion Ratio Lower Upper

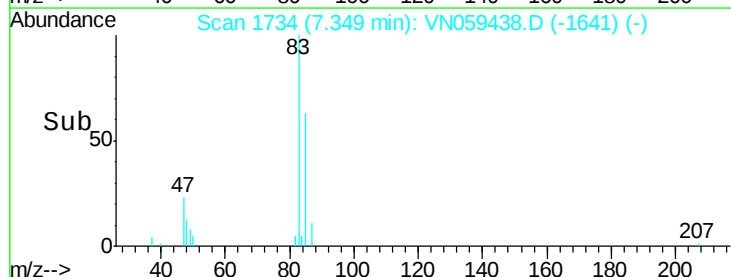
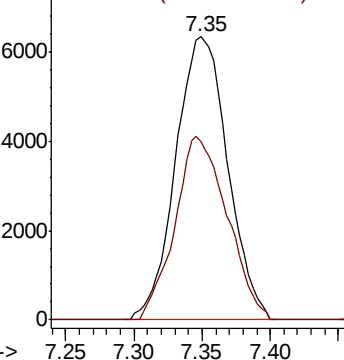
83 100

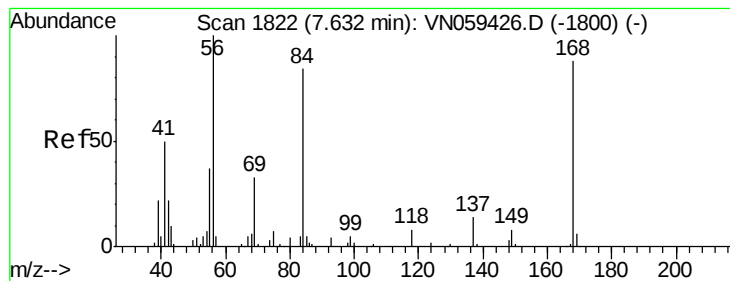
85 63.2 51.6 77.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.928 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :
MSVOA_N
ClientSampled :

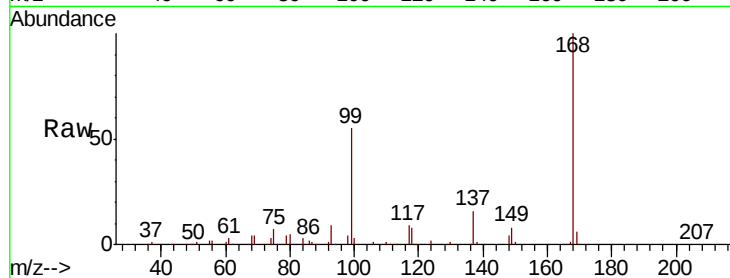
Tot Ion: 56 Resp: 6420

Ion Ratio Lower Upper

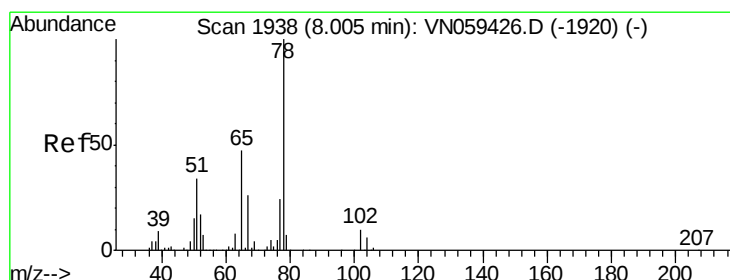
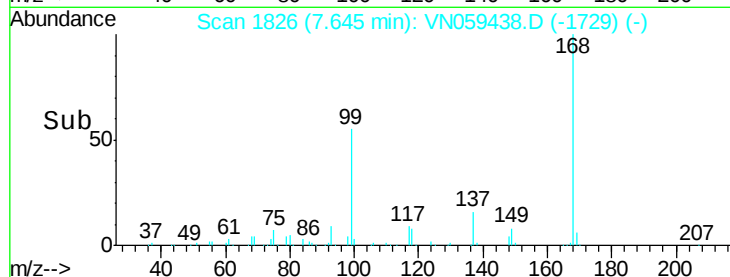
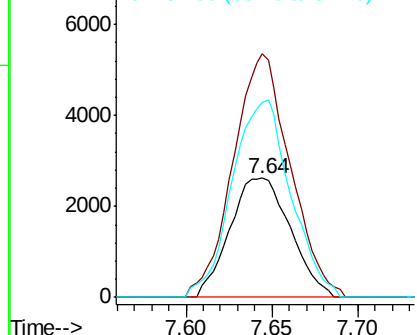
56 100

69 197.1 26.4 39.6#

84 163.5 67.0 100.6#



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: 48.701 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059438.D

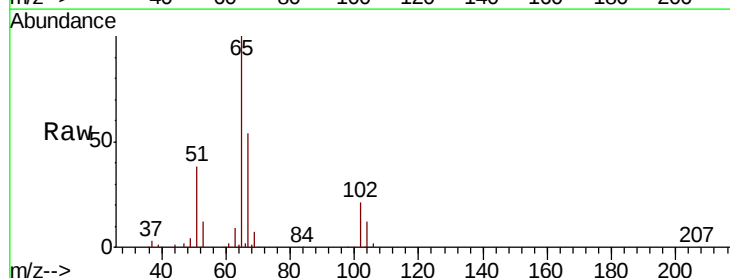
Acq: 29 Nov 2019 11:20

Tgt Ion: 65 Resp: 200093

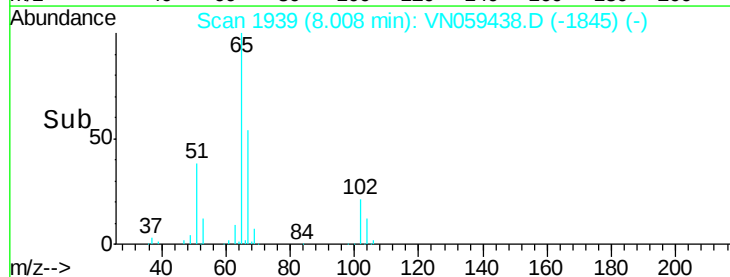
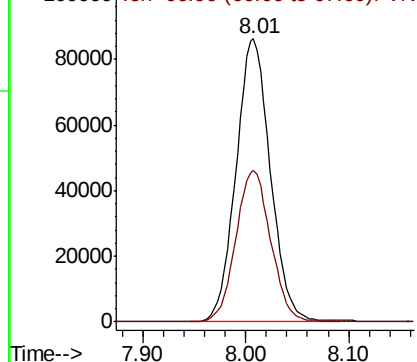
Ion Ratio Lower Upper

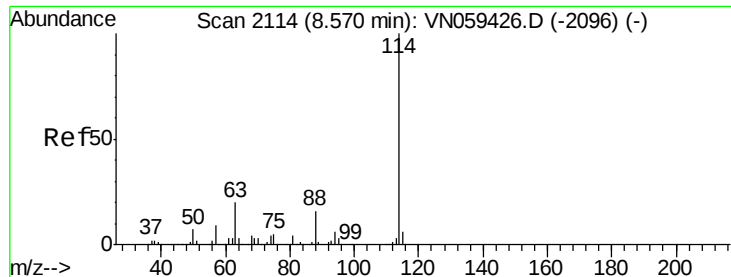
65 100

67 54.3 0.0 111.2



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

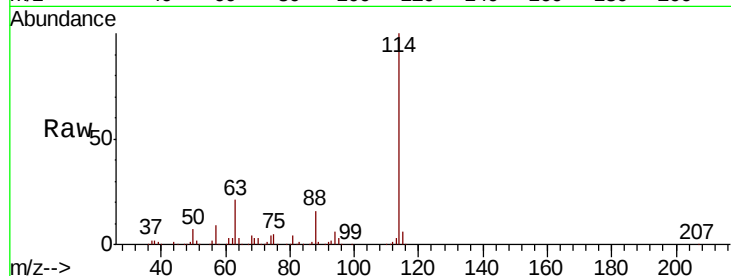




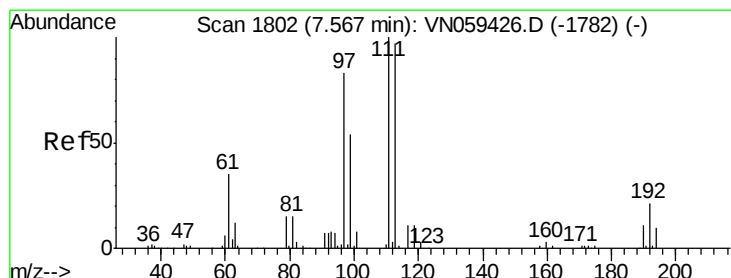
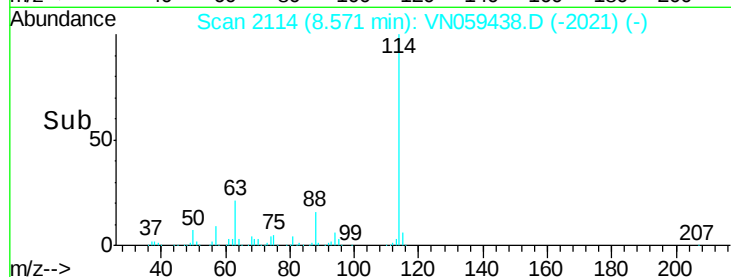
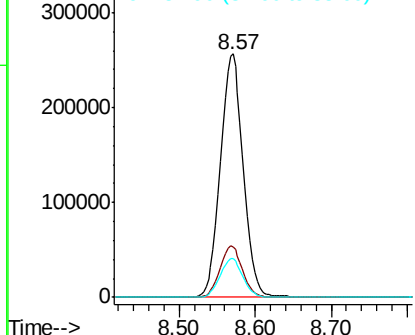
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN059438.D
Acq: 29 Nov 2019 11:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.4
88	15.7	0.0	32.2

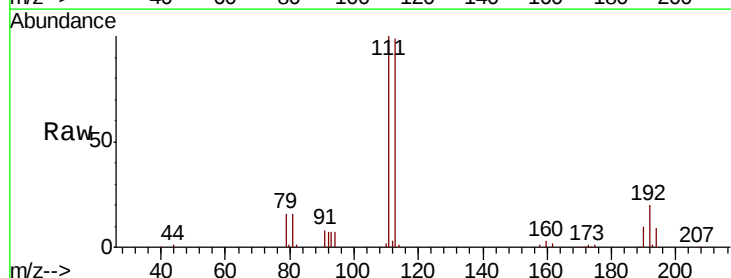


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

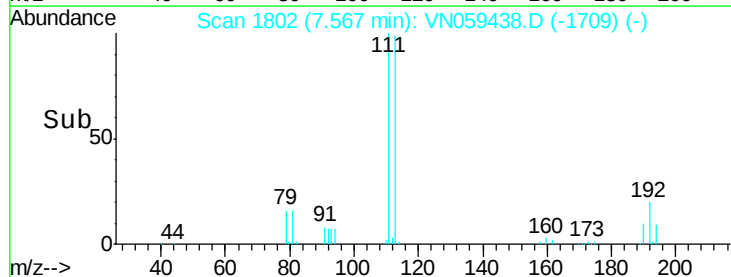
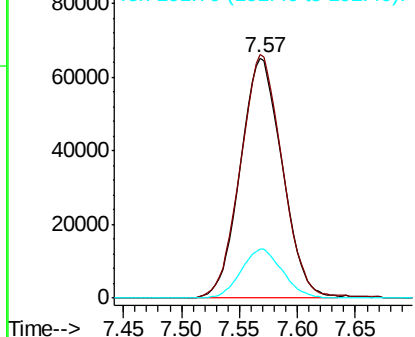


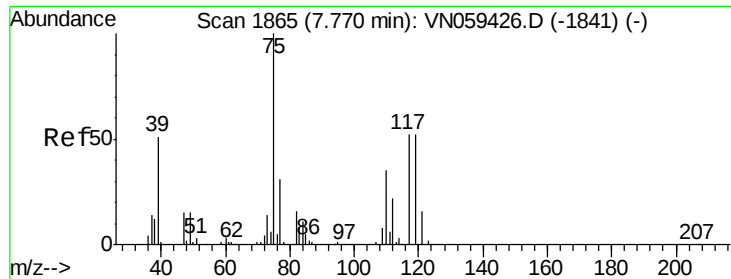
#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059438.D
Acq: 29 Nov 2019 11:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	20.2	16.6	24.8



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

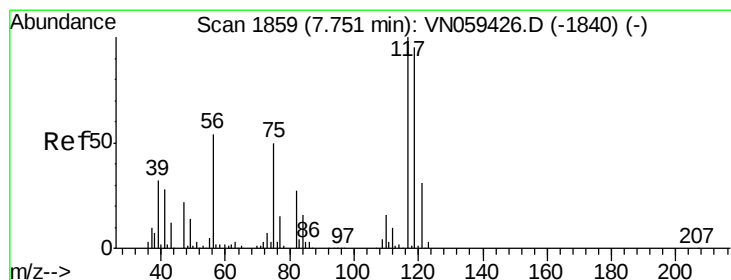
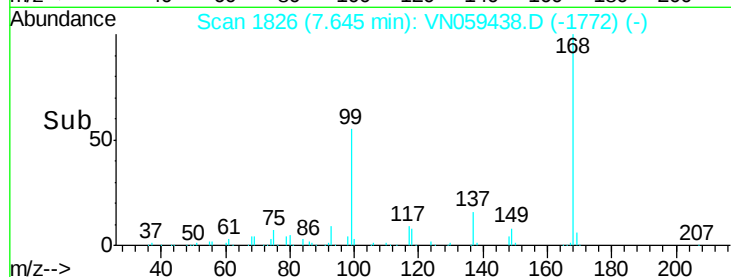
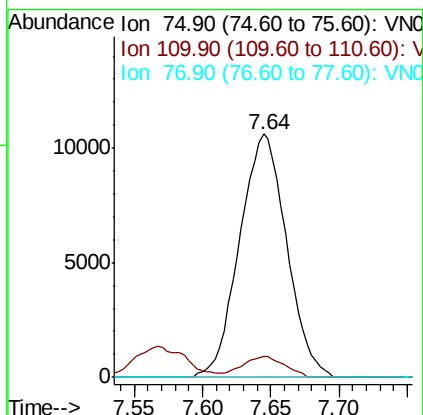
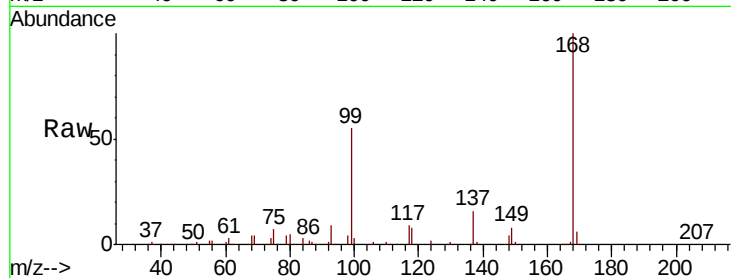




#36
 1,1-Dichloropropene
 Concen: 4.921 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059438.D
 Acq: 29 Nov 2019 11:20

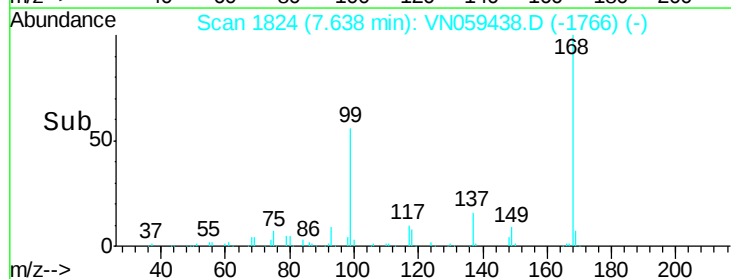
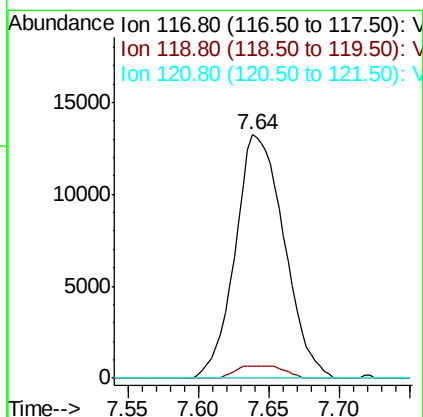
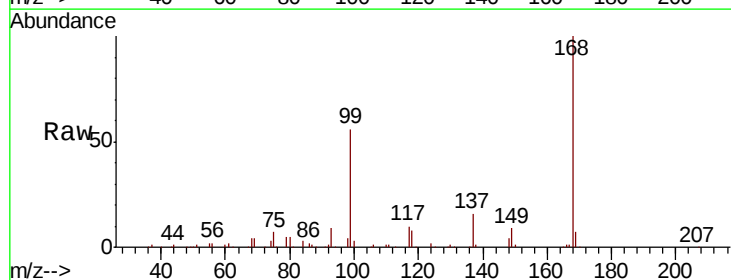
Instrument :
 MSVOA_N
 ClientSampled :

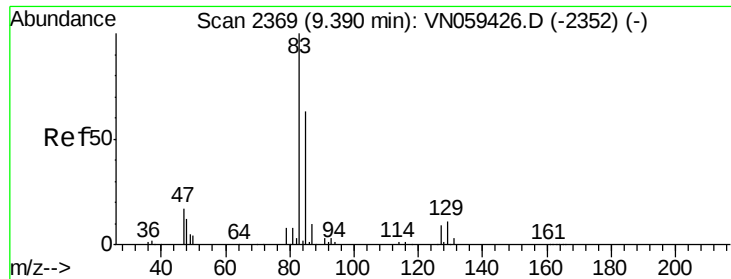
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.3	52.0#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.591 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.11 min
 Lab File: VN059438.D
 Acq: 29 Nov 2019 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.9	113.9#
121	0.0	24.6	36.8#





#47

Bromodichloromethane

Concen: 0.440 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

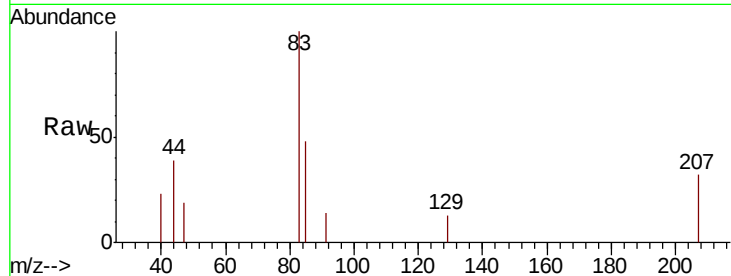
Tot Ion: 83 Resp: 2199

Ion Ratio Lower Upper

83 100

85 48.2 50.6 75.8#

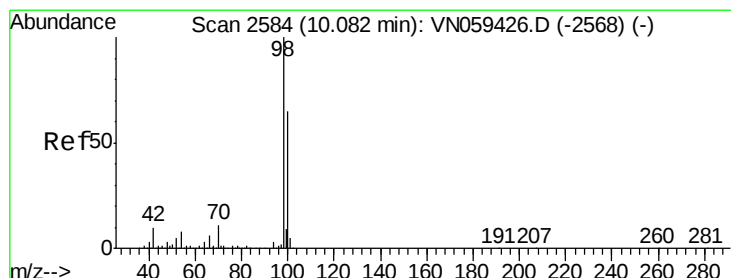
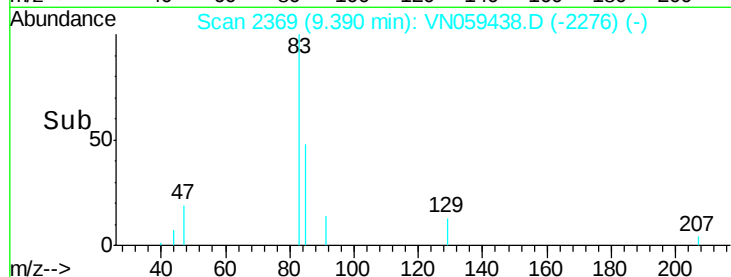
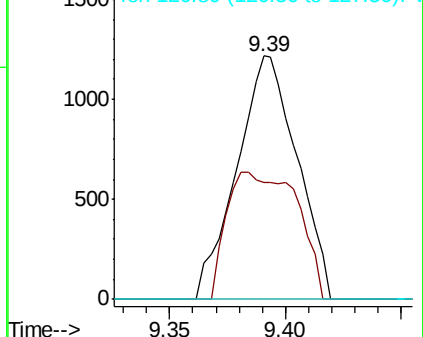
127 0.0 6.8 10.2#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0



#50

Toluene-d8

Concen: 49.609 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059438.D

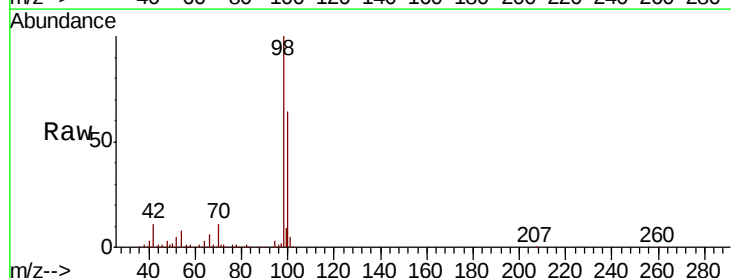
Acq: 29 Nov 2019 11:20

Tgt Ion: 98 Resp: 645132

Ion Ratio Lower Upper

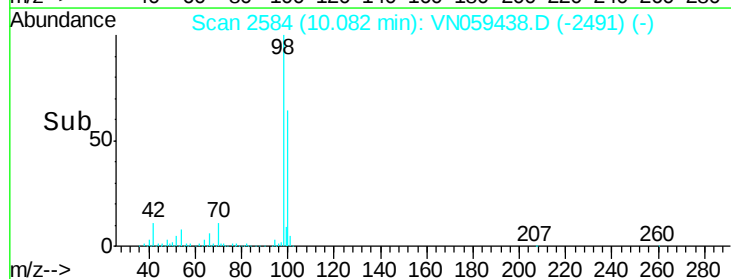
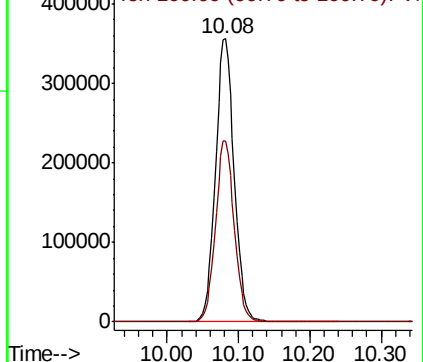
98 100

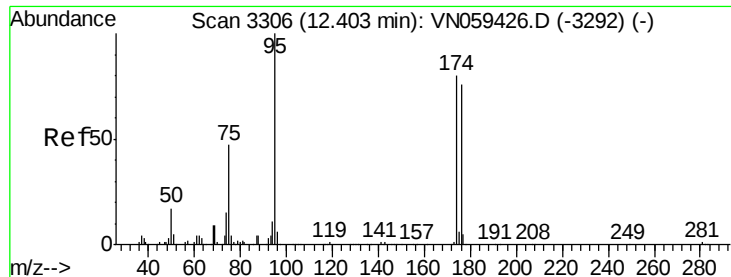
100 64.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.315 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

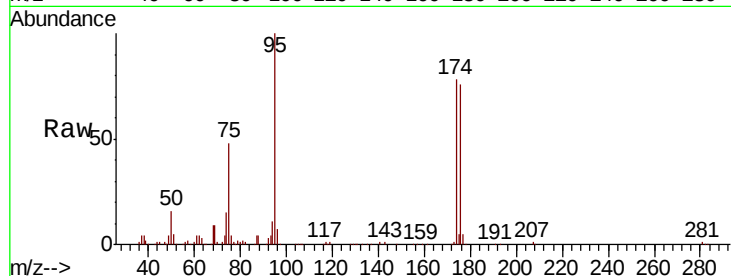
Tot Ion: 95 Resp: 200654

Ion Ratio Lower Upper

95 100

174 79.3 0.0 158.0

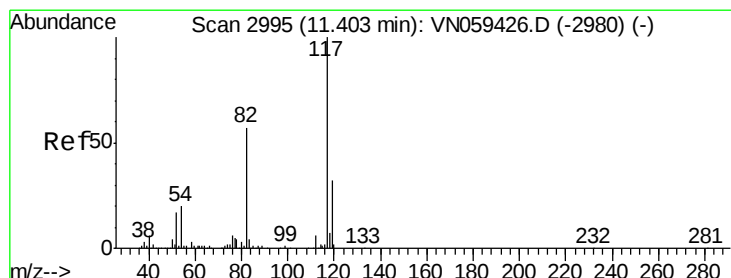
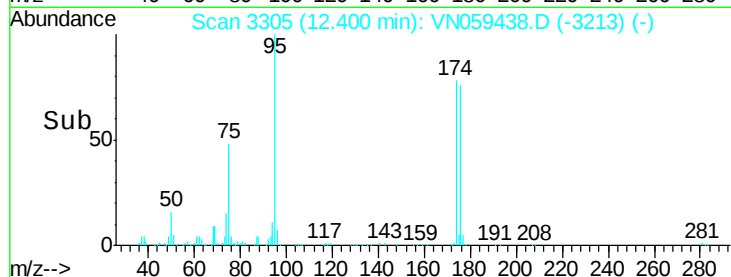
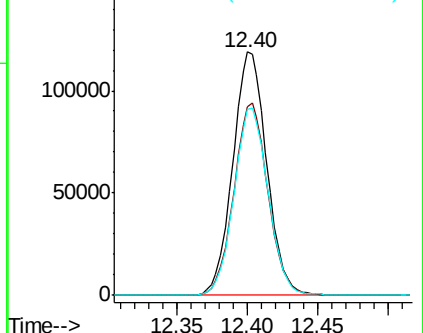
176 77.7 0.0 153.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

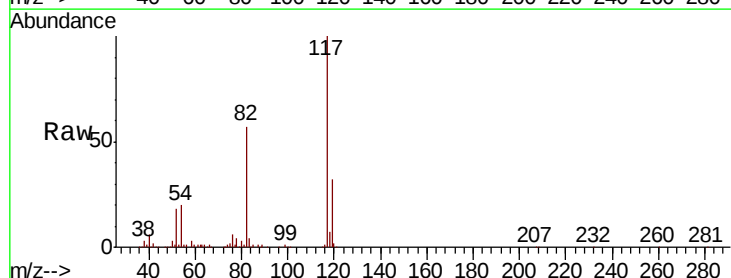
Tgt Ion: 117 Resp: 455278

Ion Ratio Lower Upper

117 100

82 56.7 45.4 68.0

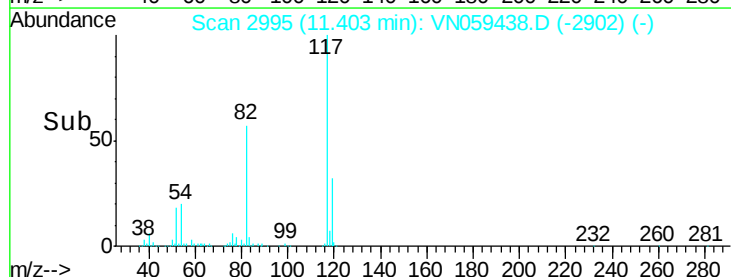
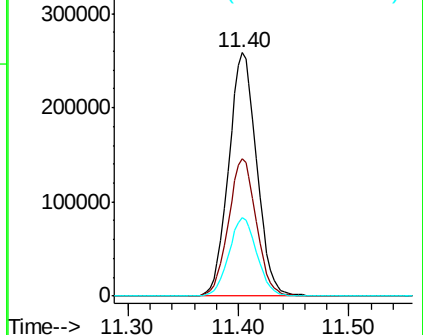
119 32.1 25.6 38.4

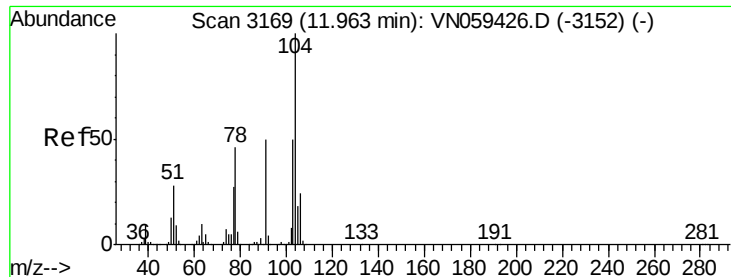


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

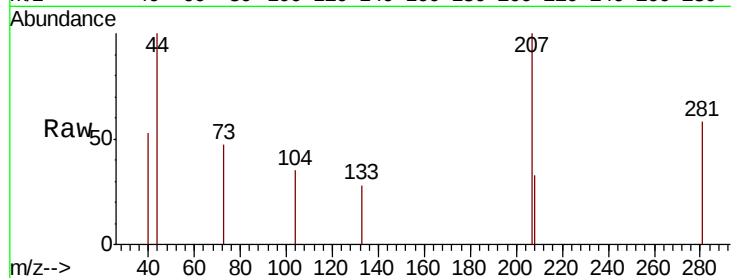




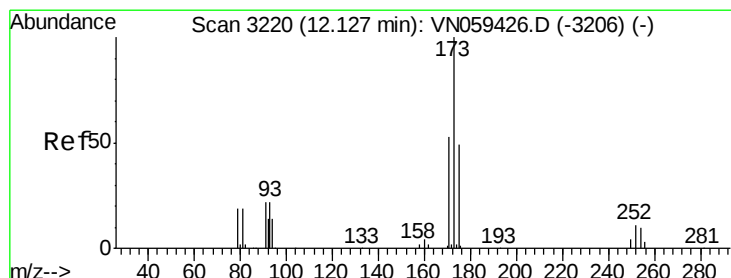
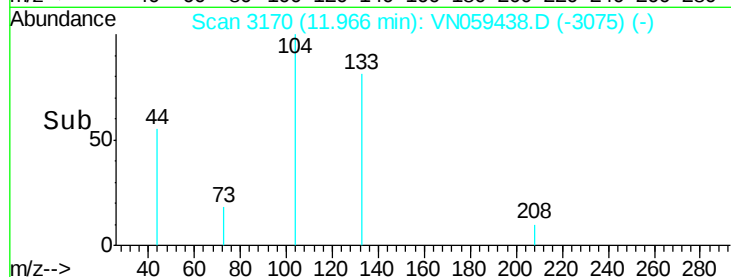
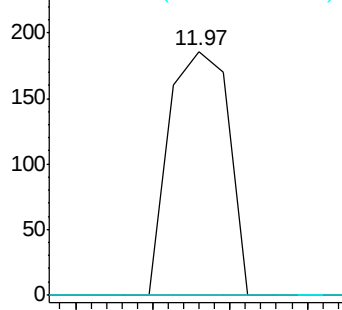
#70
Stvrene
Concen: Below Cal
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN059438.D
Acq: 29 Nov 2019 11:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	40.4	60.6#
103	0.0	43.8	65.6#

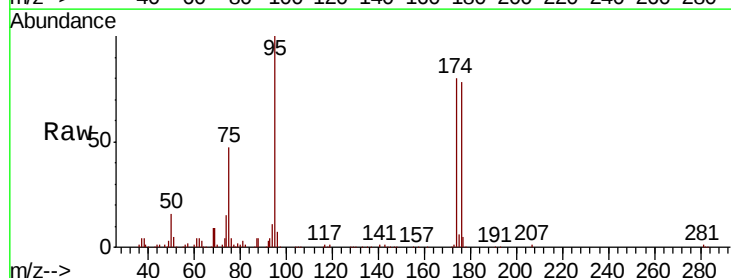


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

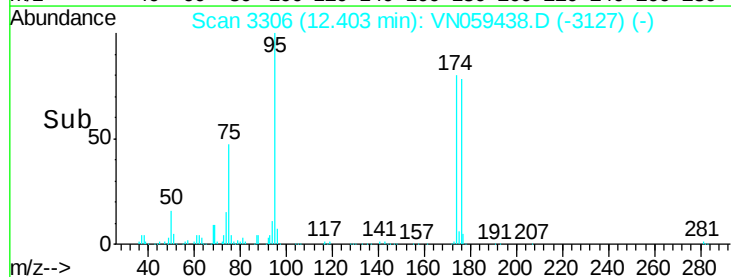
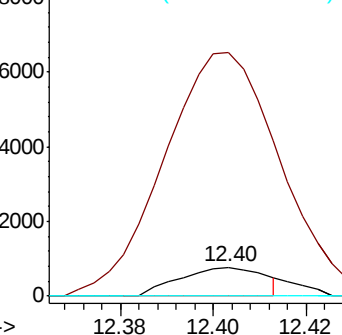


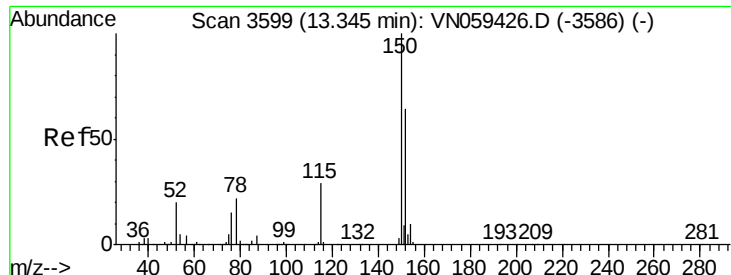
#71
Bromoform
Concen: 0.387 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN059438.D
Acq: 29 Nov 2019 11:20

Tgt Ion	Ratio	Lower	Upper
173	100		
175	994.0	24.1	72.3#
254	0.0	0.0	0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

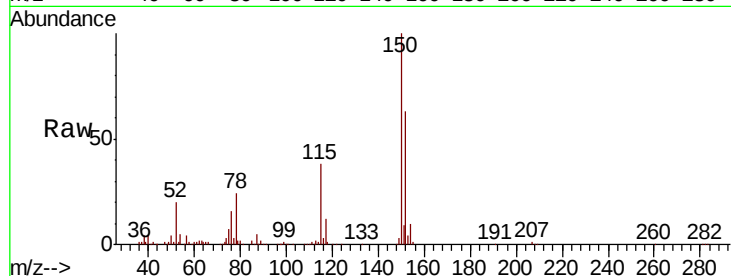
Tot Ion:152 Resp: 165606

Ion Ratio Lower Upper

152 100

115 60.1 29.5 88.6

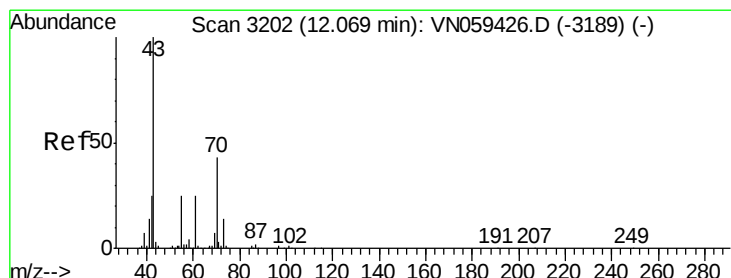
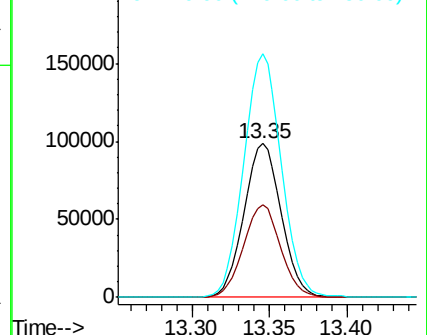
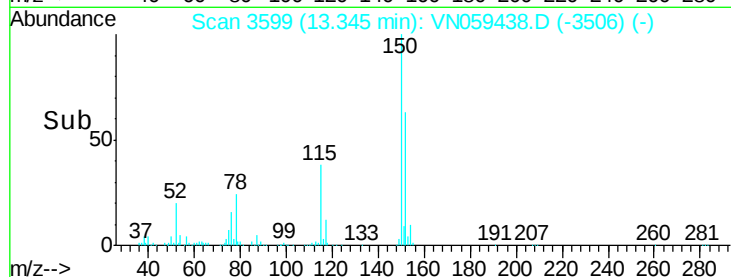
150 159.9 0.0 347.2



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: Below Cal

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Tgt Ion: 43 Resp: 448

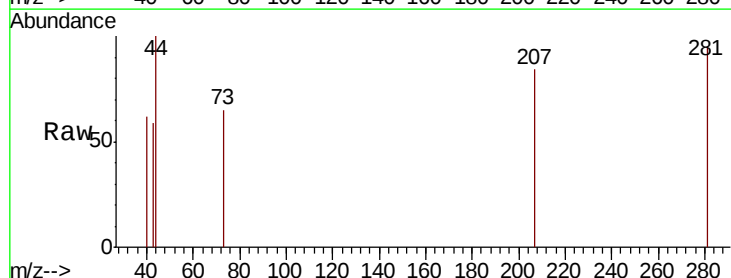
Ion Ratio Lower Upper

43 100

70 0.0 34.6 52.0#

55 0.0 20.5 30.7#

61 0.0 20.2 30.4#

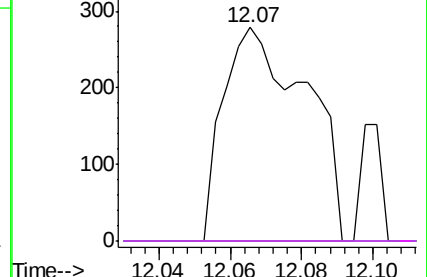
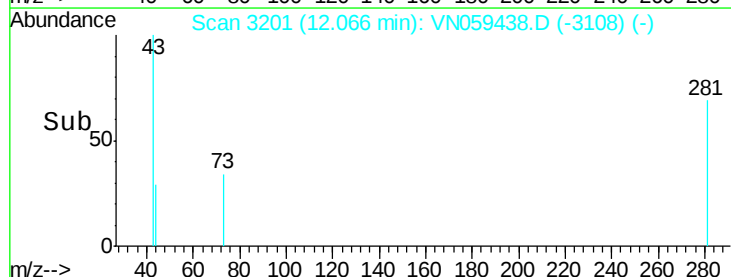


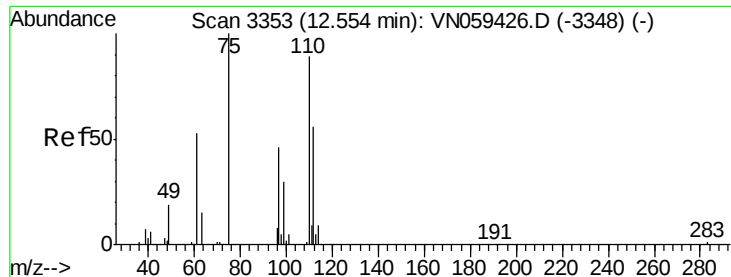
Abundance Ion 43.00 (42.70 to 43.70): V

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: 25.659 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :

MSVOA_N

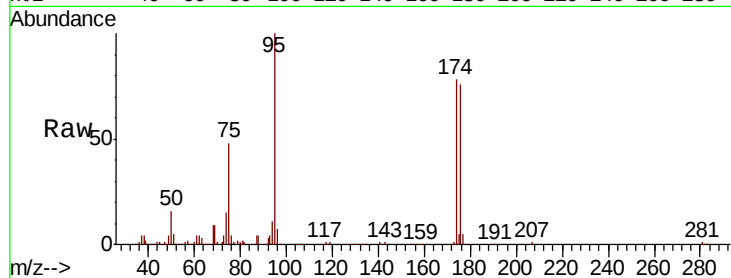
ClientSampleId :

Tot Ion: 75 Resp: 96130

Ion Ratio Lower Upper

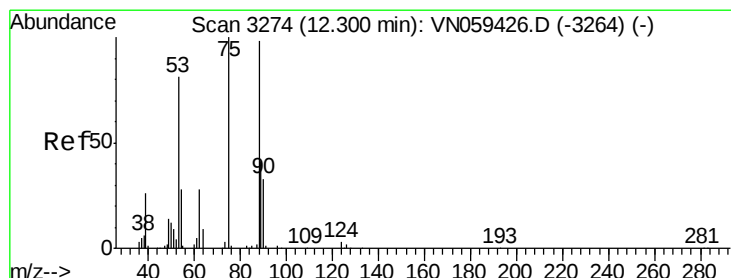
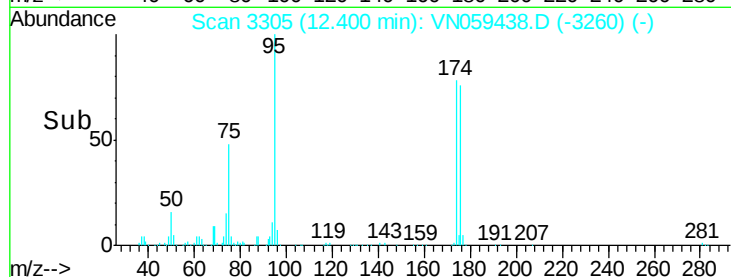
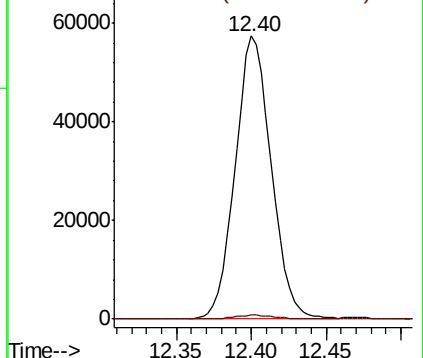
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 65.930 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

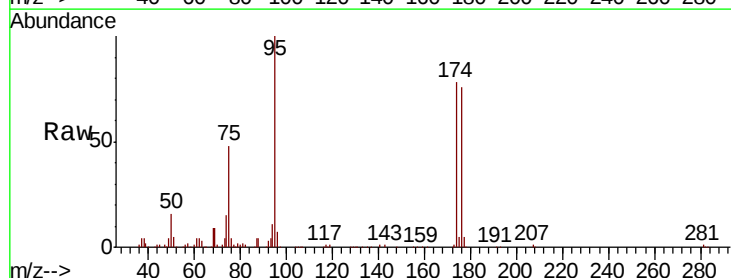
Tgt Ion: 75 Resp: 96130

Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.4#

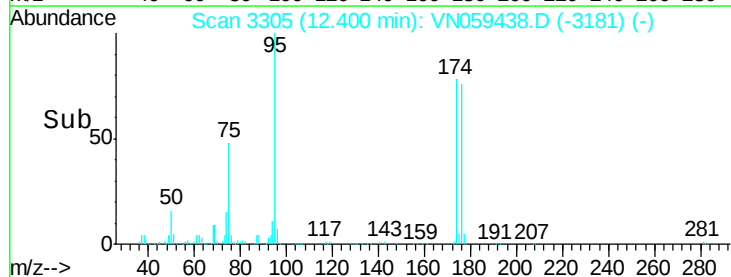
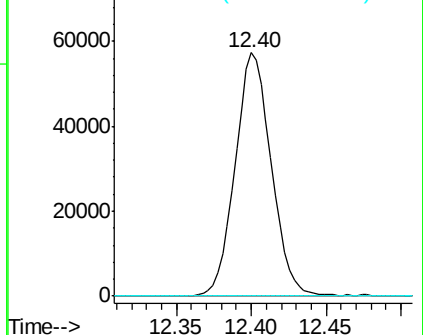
89 0.0 33.9 50.9#

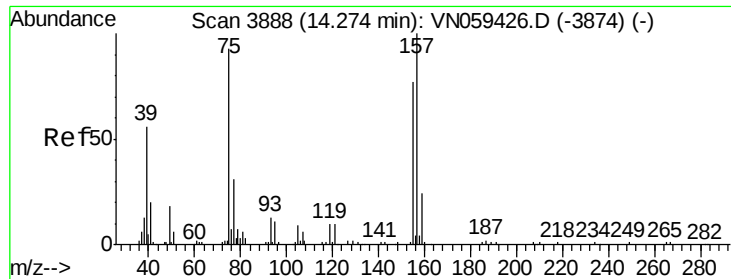


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

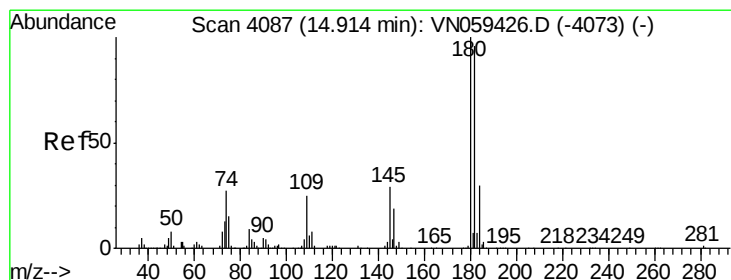
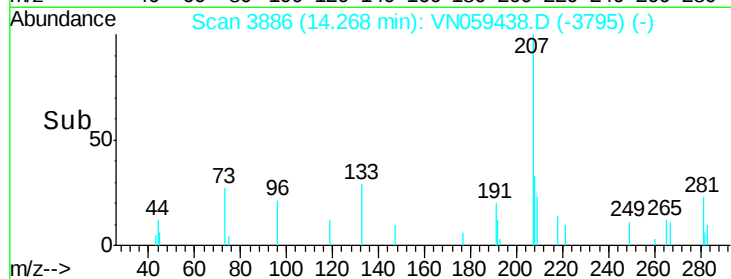
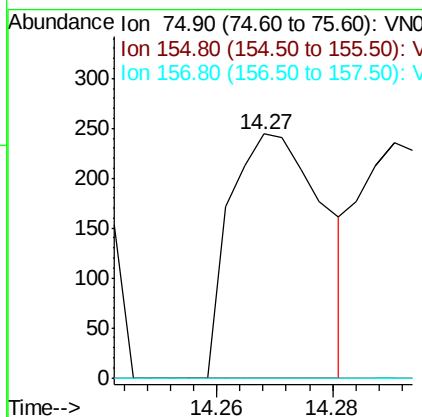
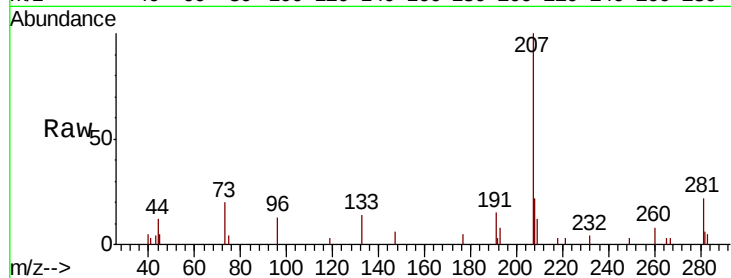




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.01 min
 Lab File: VN059438.D
 Acq: 29 Nov 2019 11:20

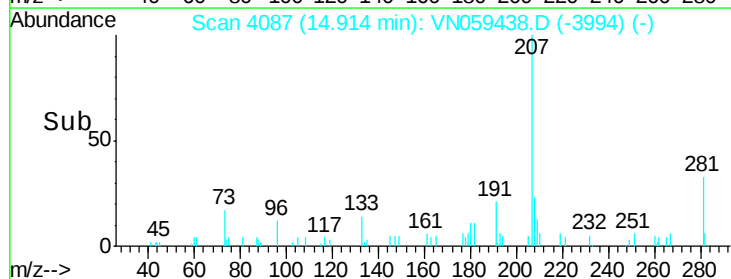
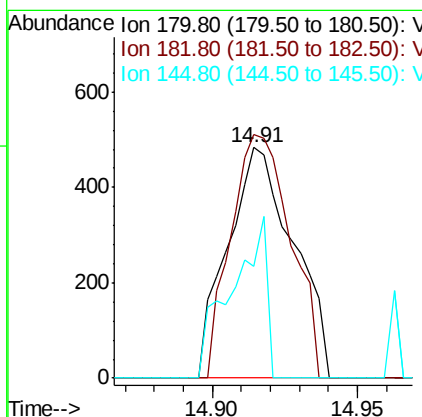
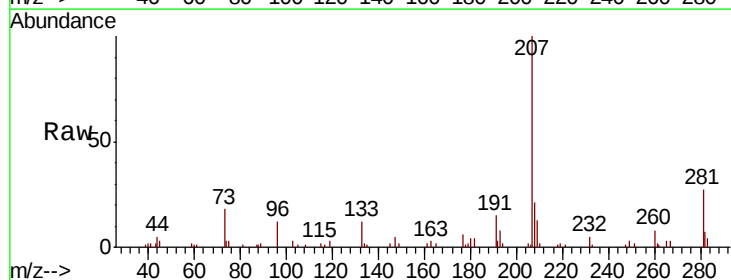
Instrument :
 MSVOA_N
 ClientSampled :

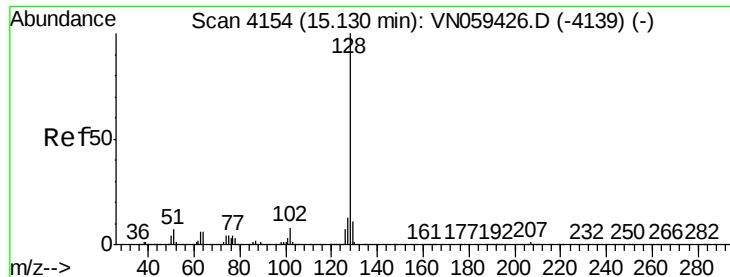
Tot Ion: 75 Resp: 273
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.9 125.8#
 157 0.0 54.1 162.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.235 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059438.D
 Acq: 29 Nov 2019 11:20

Tgt Ion: 180 Resp: 763
 Ion Ratio Lower Upper
 180 100
 182 96.1 47.3 142.0
 145 37.5 14.8 44.4





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

Instrument :

MSVOA_N

ClientSampled :

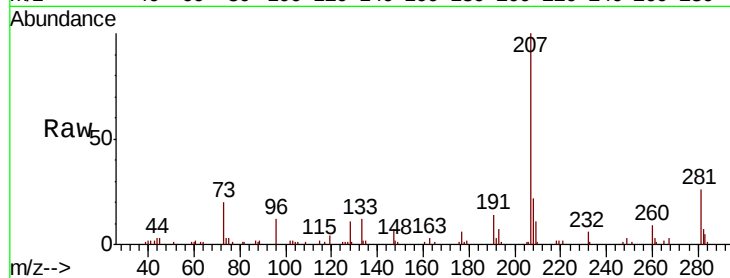
Tot Ion:128 Resp: 3738

Ion Ratio Lower Upper

128 100

127 8.1 10.1 15.1#

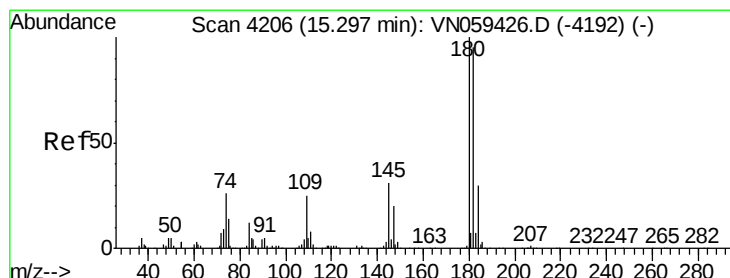
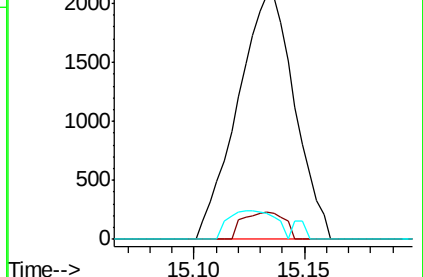
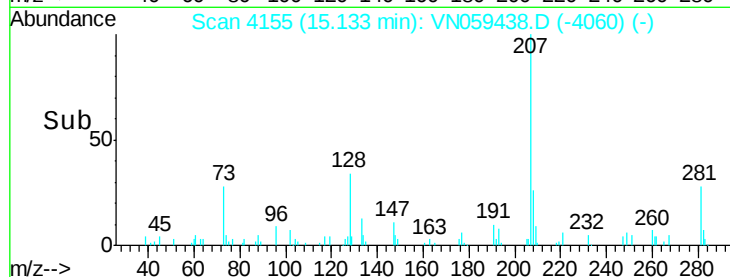
129 9.6 8.6 12.8



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: Below Cal

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN059438.D

Acq: 29 Nov 2019 11:20

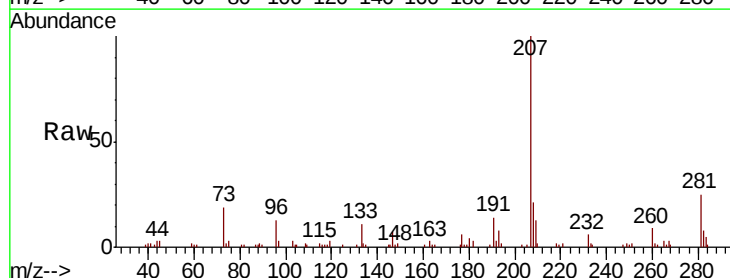
Tgt Ion:180 Resp: 1346

Ion Ratio Lower Upper

180 100

182 70.1 47.5 142.6

145 5.8 15.7 47.1#



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

