

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120419\
 Data File : VN059478.D
 Acq On : 4 Dec 2019 11:00
 Operator : JC/SP
 Sample : VN1204WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 00:43:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	324581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	505615	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	436074	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	156413	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	198509	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
35) Dibromofluoromethane	7.57	113	154367	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	
50) Toluene-d8	10.08	98	615657	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.40	95	190012	43.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.64%	

Target Compounds

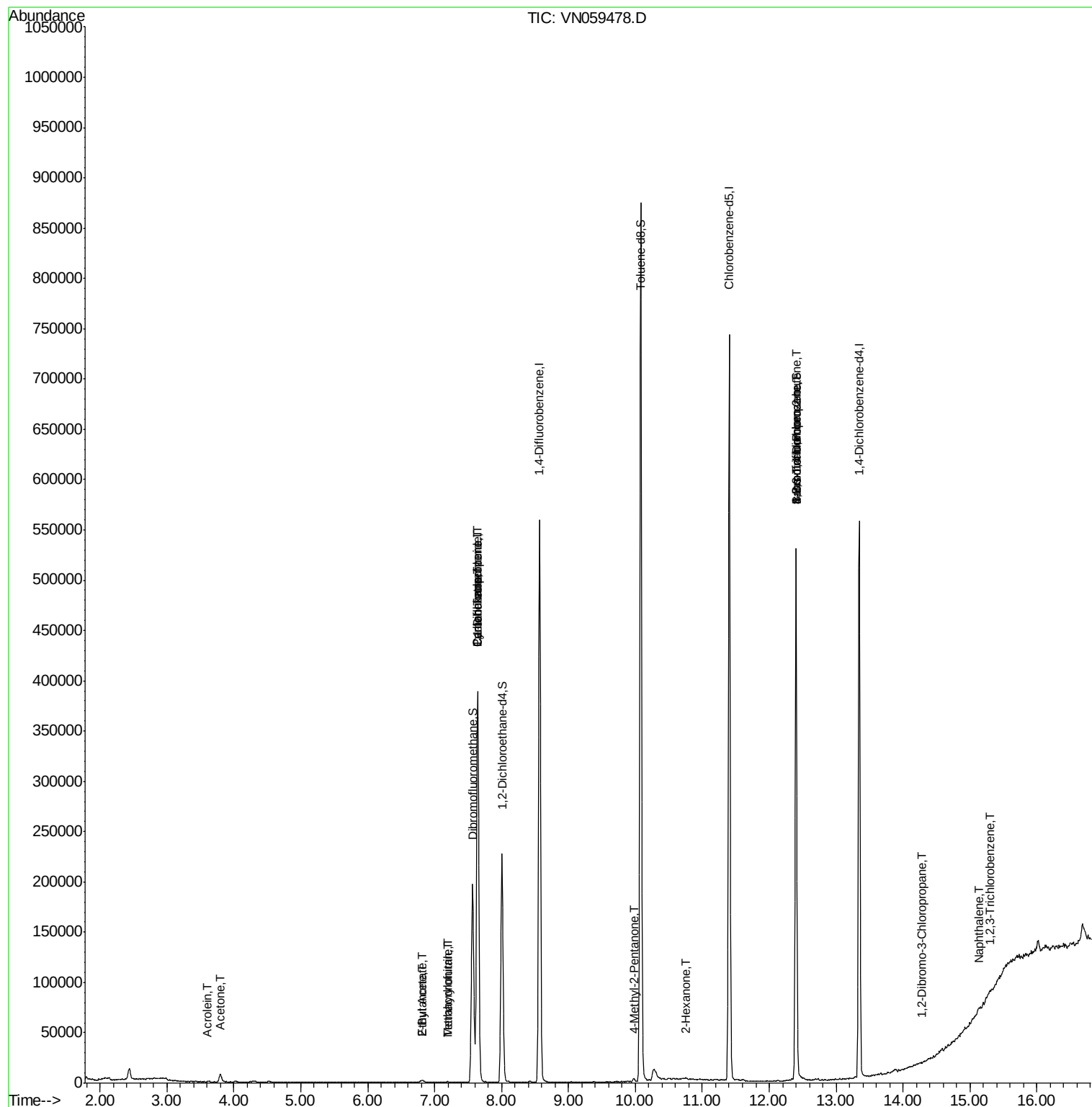
					Qvalue
13) Acrolein	3.60	56	236	0.358 ug/l #	14
16) Acetone	3.80	43	14173	1.113 ug/l	98
20) Methylene Chloride	4.53	84	790	Below Cal #	70
25) 2-Butanone	6.83	43	2353	0.768 ug/l	99
29) Tetrahydrofuran	7.20	42	784	0.407 ug/l #	34
31) Cyclohexane	7.64	56	6365	0.937 ug/l #	1
36) 1,1-Dichloropropene	7.64	75	25161	4.782 ug/l #	49
37) Ethyl Acetate	6.83	43	2353	0.400 ug/l #	68
38) Carbon Tetrachloride	7.64	117	31039	6.133 ug/l #	15
41) Methacrylonitrile	7.20	41	521	0.219 ug/l #	100
51) 4-Methyl-2-Pentanone	9.98	43	2593	0.500 ug/l	92
59) 2-Hexanone	10.75	43	975	0.250 ug/l #	51
71) Bromoform	12.40	173	1135	0.425 ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	92923	23.893 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	92923	62.705 ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.26	75	389	0.338 ug/l #	2
94) Hexachlorobutadiene	15.01	225	255	Below Cal #	42
95) Naphthalene	15.13	128	3750	2.828 ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	1177	2.314 ug/l	84

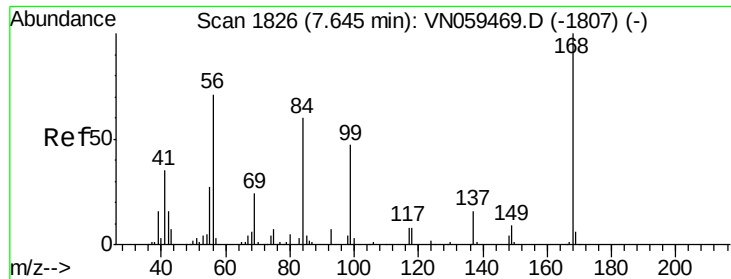
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 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: VN059478.D

Acq: 4 Dec 2019 11:00

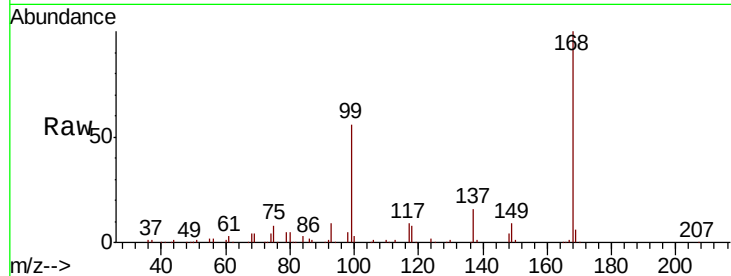
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 324581

Ion Ratio Lower Upper

168 100

99 55.7 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): VN059469.D

Ion 98.90 (98.60 to 99.60): VN059469.D

7.64

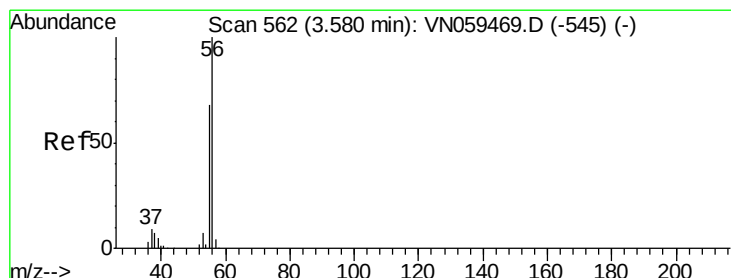
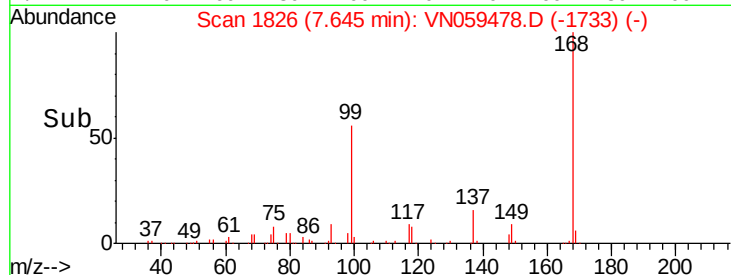
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.358 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.02 min

Lab File: VN059478.D

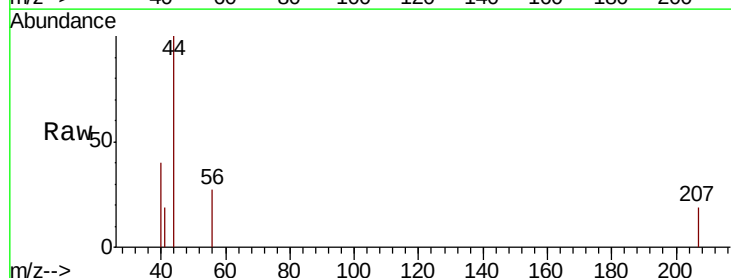
Acq: 4 Dec 2019 11:00

Tgt Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN059469.D

Ion 55.00 (54.70 to 55.70): VN059469.D

250

200

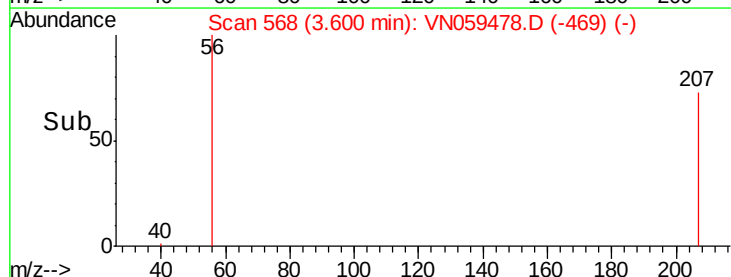
150

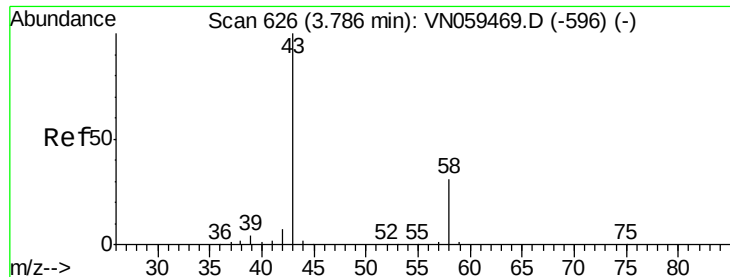
100

50

0

Time-->

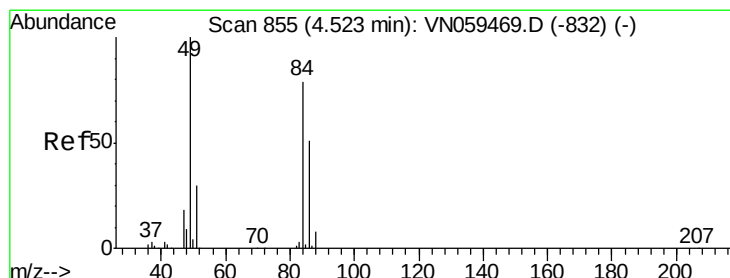
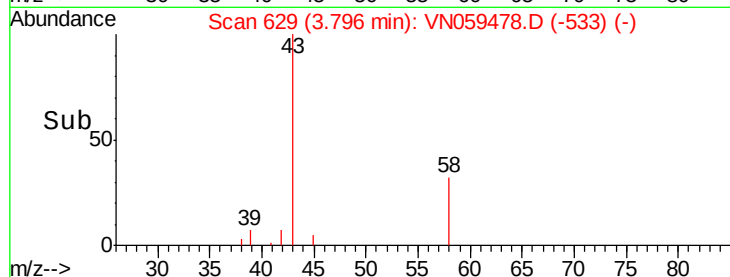
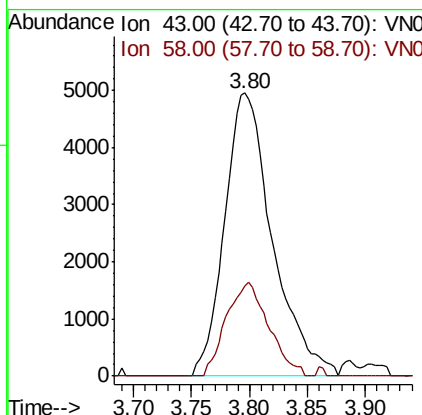
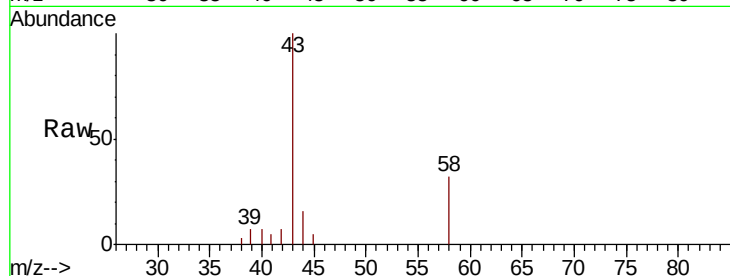




#16
Acetone
Concen: 1.113 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

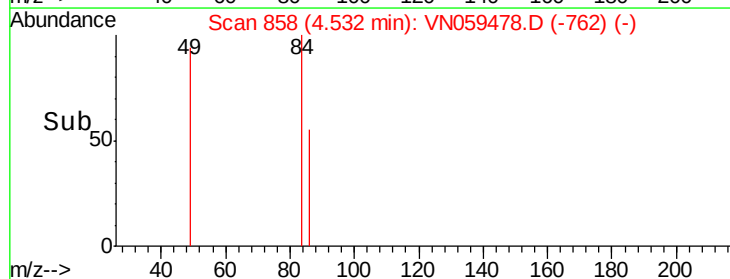
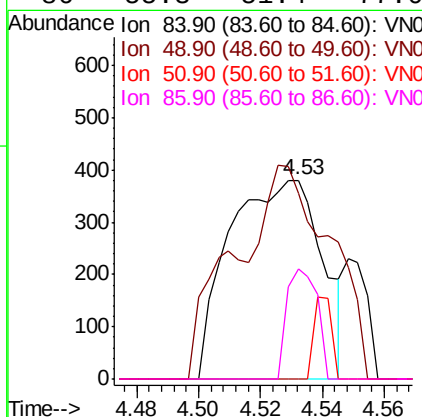
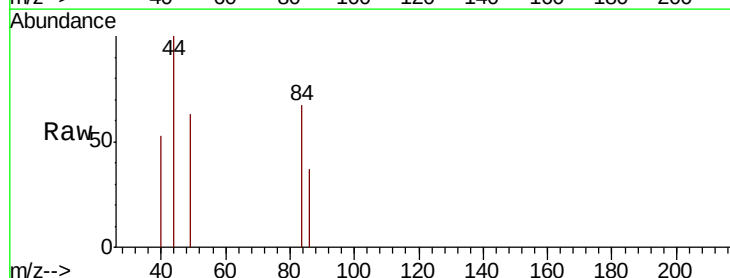
Instrument :
MSVOA_N
ClientSampled :

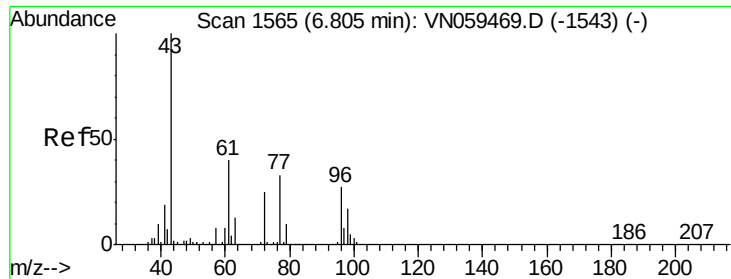
Tot Ion: 43 Resp: 14173
Ion Ratio Lower Upper
43 100
58 31.9 24.9 37.3



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Tgt Ion: 84 Resp: 790
Ion Ratio Lower Upper
84 100
49 93.7 101.1 151.7#
51 0.0 30.7 46.1#
86 55.3 51.4 77.0





#25

2-Butanone

Concen: 0.768 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

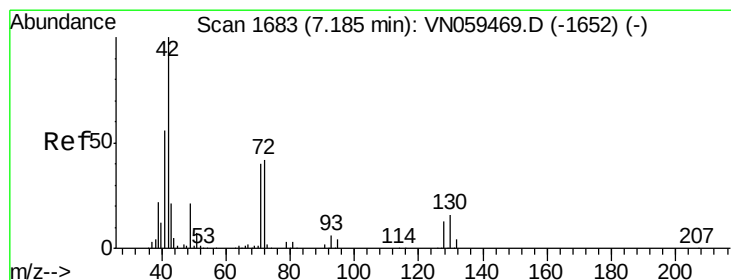
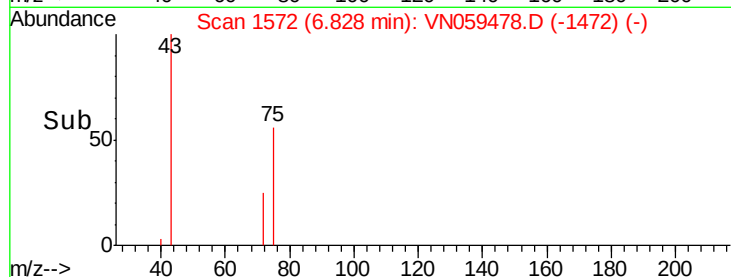
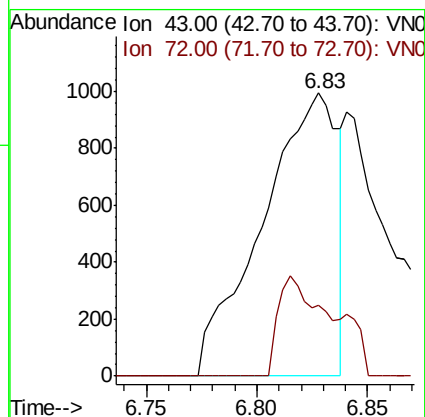
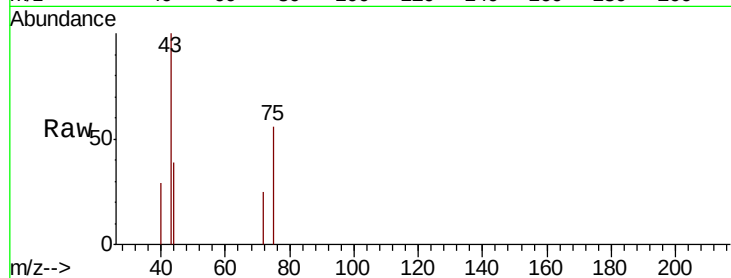
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2353

Ion Ratio Lower Upper

43 100

72 24.8 20.2 30.2



#29

Tetrahydrofuran

Concen: 0.407 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

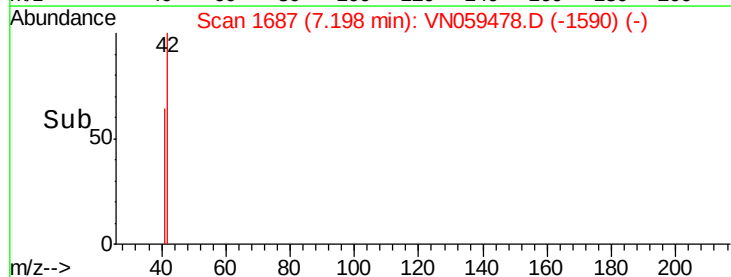
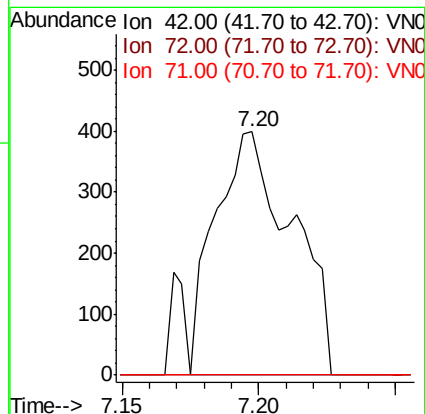
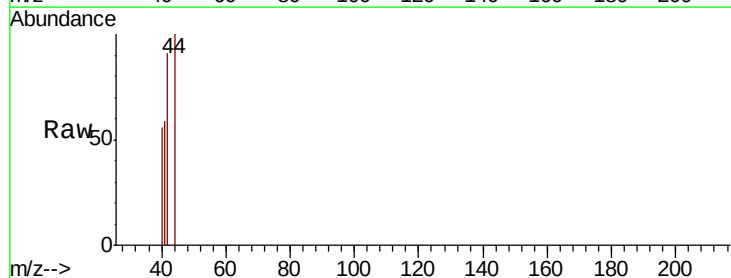
Tgt Ion: 42 Resp: 784

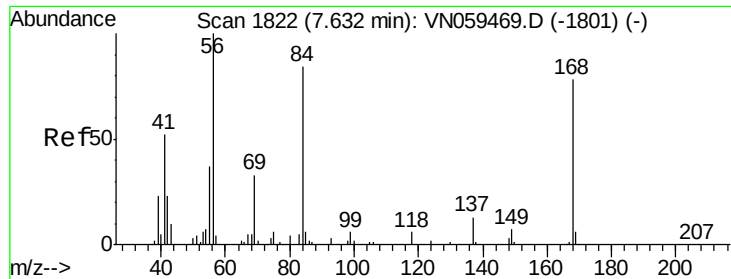
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 32.0 48.0#

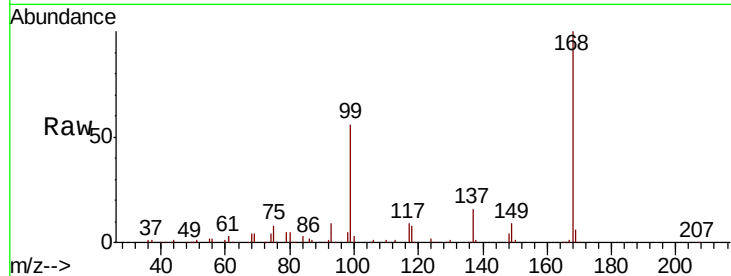




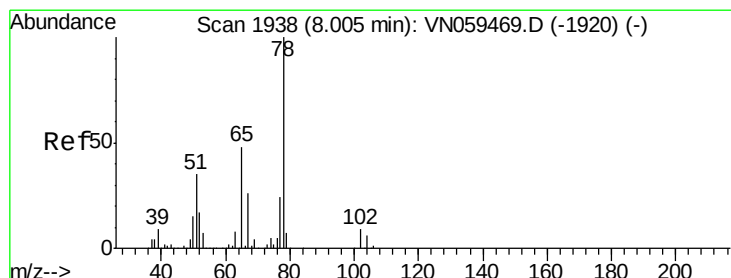
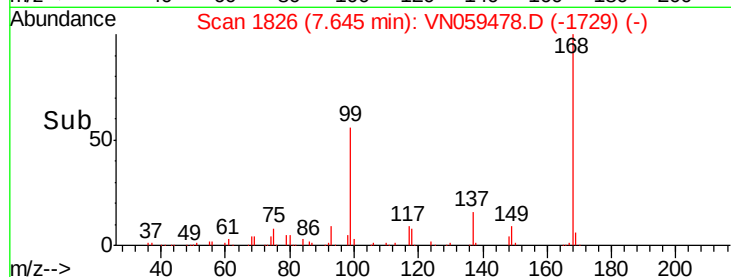
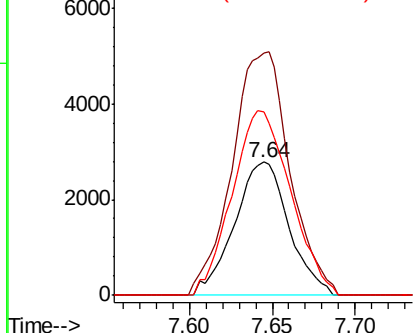
#31
Cyclohexane
Concen: 0.937 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6365
Ion Ratio Lower Upper
56 100
69 181.4 26.2 39.4#
84 137.8 66.8 100.2#

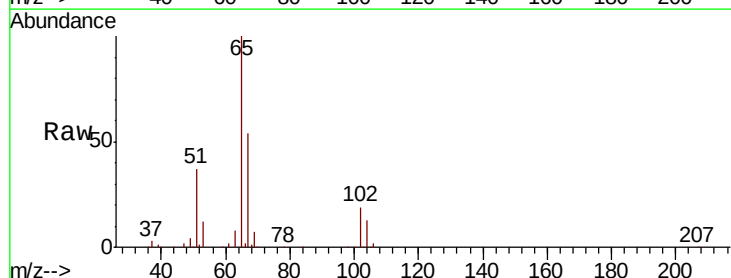


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

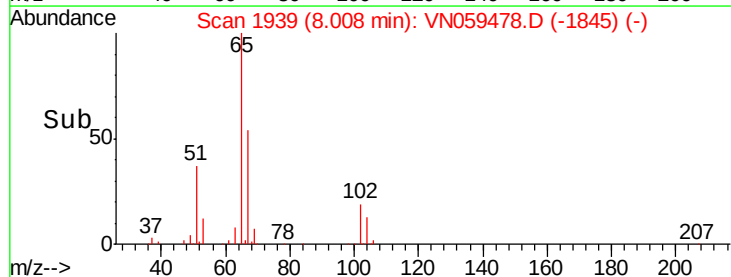
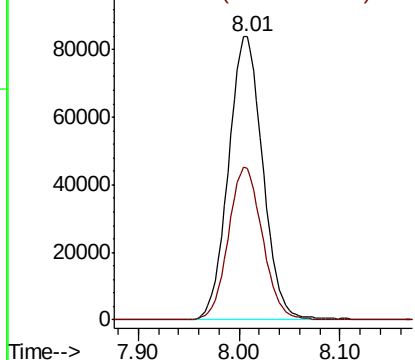


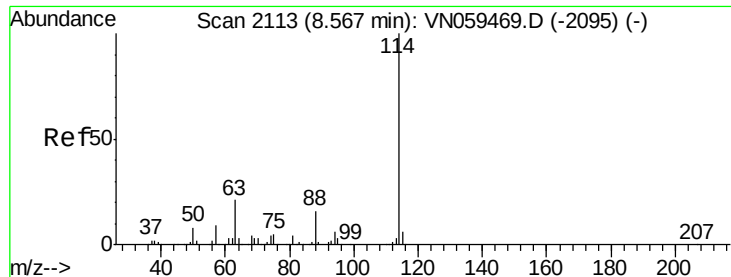
#33
1,2-Dichloroethane-d4
Concen: 49.231 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Tgt Ion: 65 Resp: 198509
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.4



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

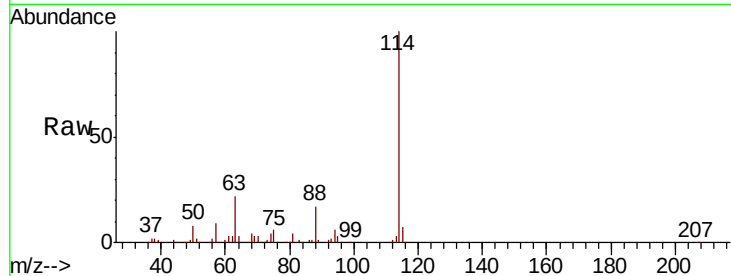




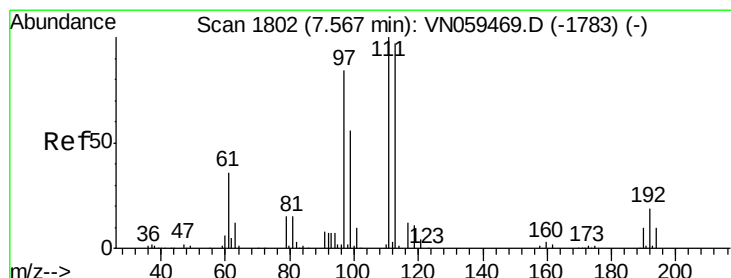
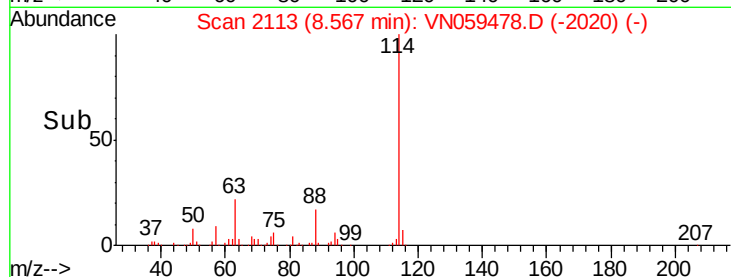
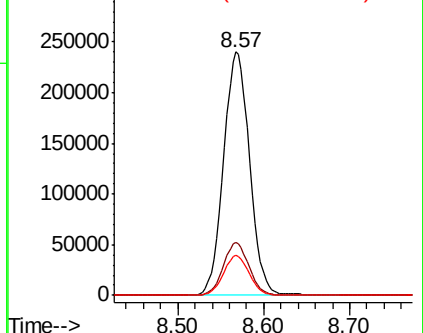
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.5	0.0	32.8

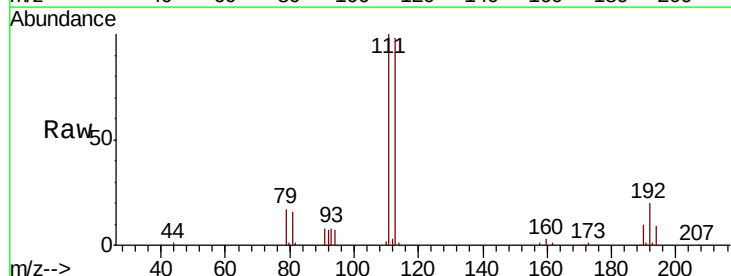


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

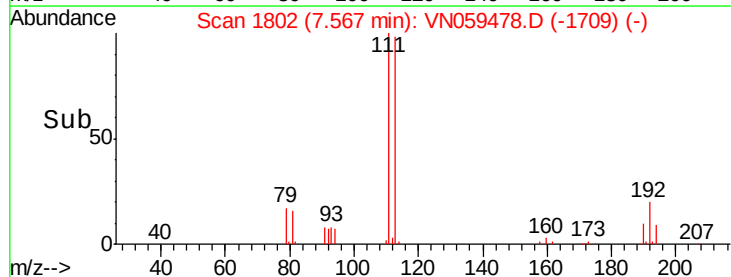
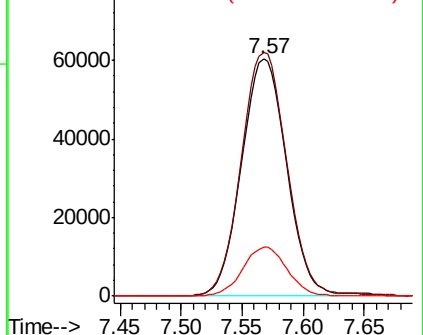


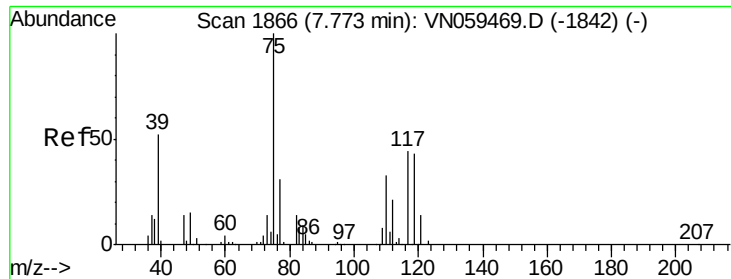
#35
Dibromofluoromethane
Concen: 49.019 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.5	123.7
192	20.3	16.1	24.1



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

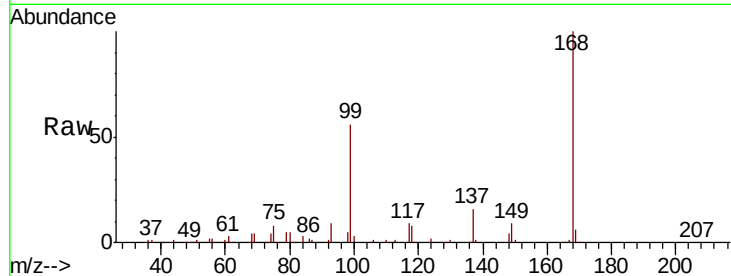




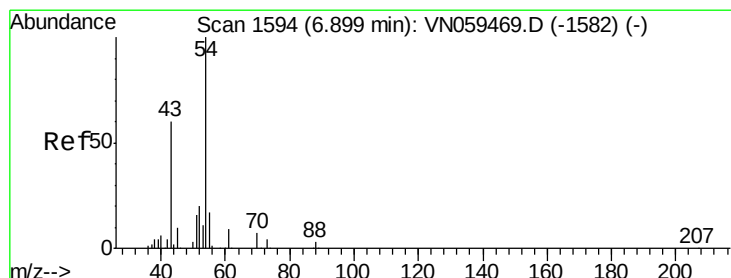
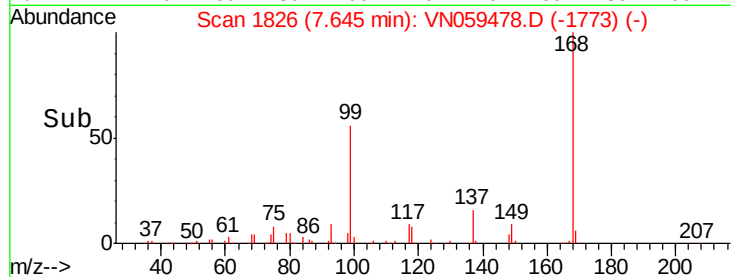
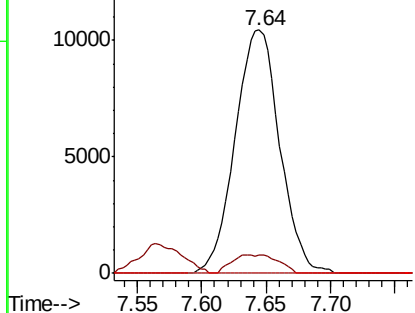
#36
 1,1-Dichloropropene
 Concen: 4.782 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059478.D
 Acq: 4 Dec 2019 11:00

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	25161
Ion Ratio	Lower	Upper	
75	100		
110	7.9	16.9	50.7#
77	0.0	25.1	37.7#

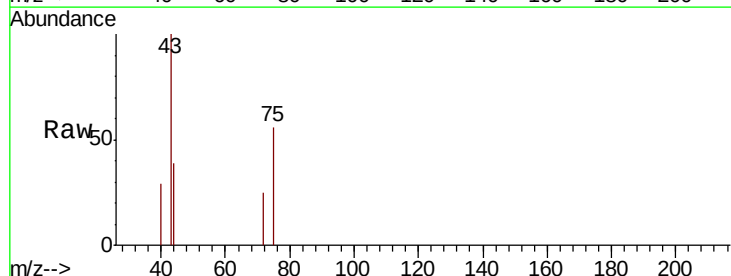


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

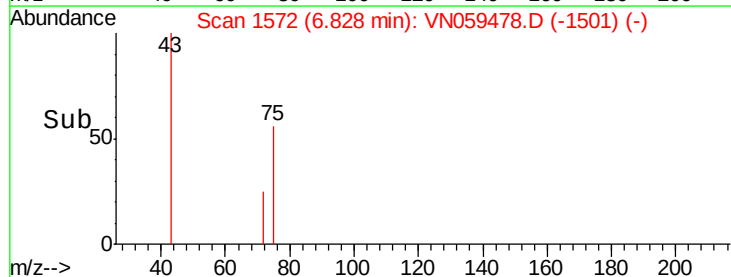
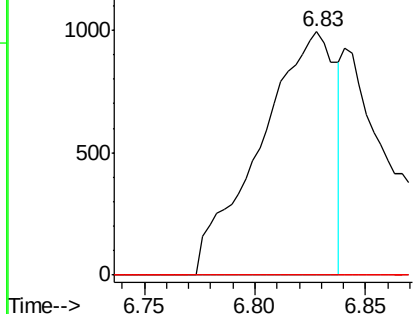


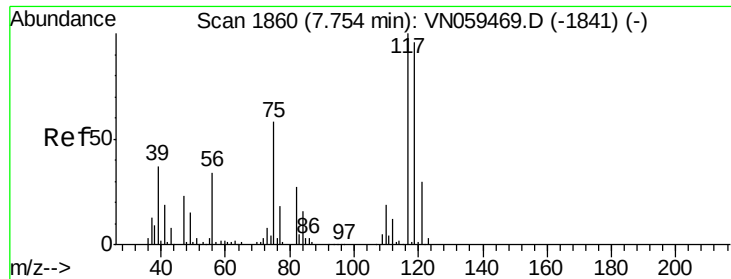
#37
 Ethyl Acetate
 Concen: 0.400 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.07 min
 Lab File: VN059478.D
 Acq: 4 Dec 2019 11:00

Tgt Ion	43	Resp	2353
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.3	16.9#
70	0.0	8.3	12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.133 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

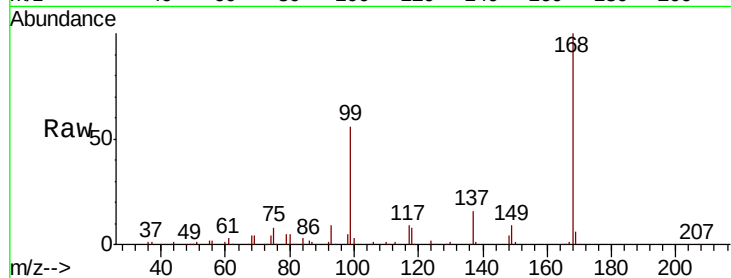
Tot Ion:117 Resp: 31039

Ion Ratio Lower Upper

117 100

119 4.3 76.6 114.8#

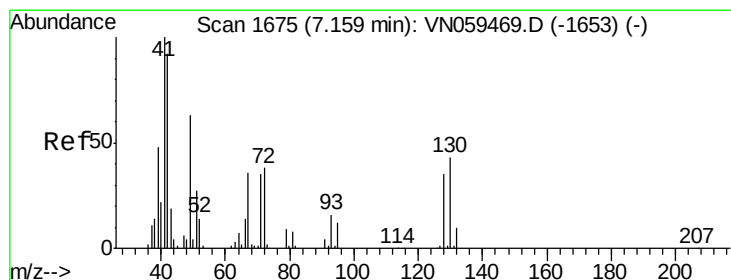
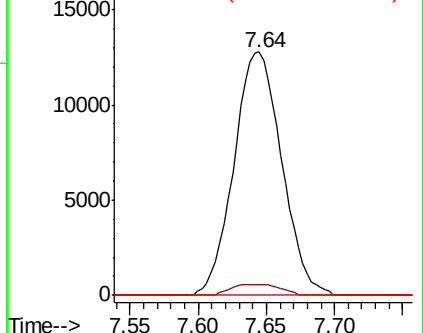
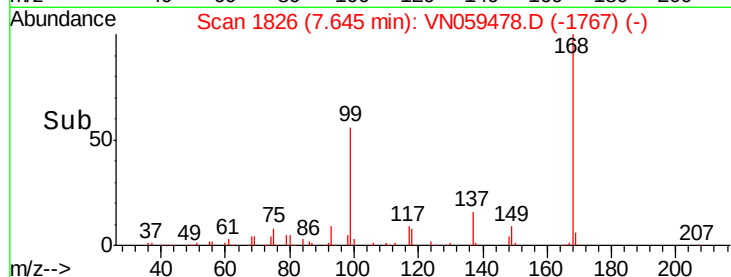
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 0.219 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

Tgt Ion: 41 Resp: 521

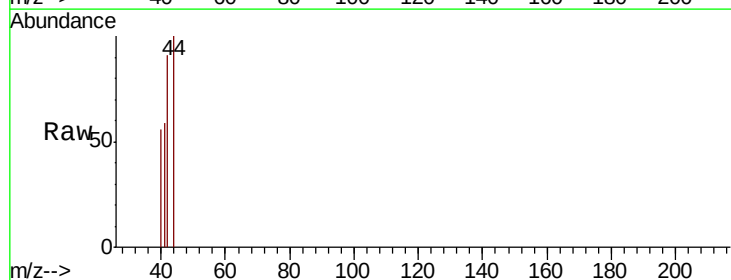
Ion Ratio Lower Upper

41 100

39 11.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

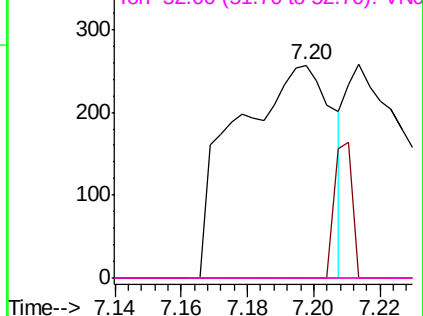
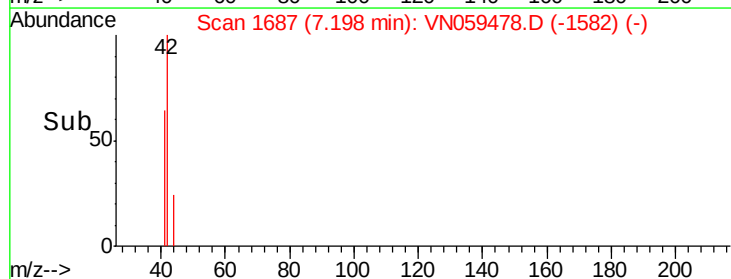


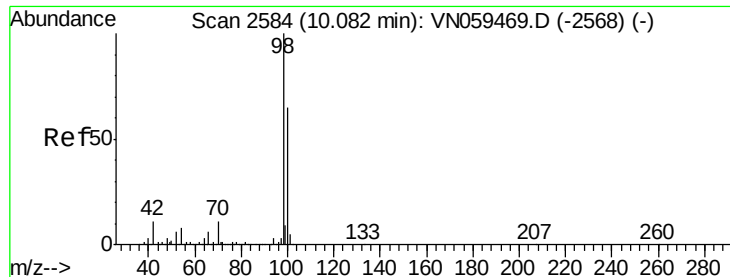
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC

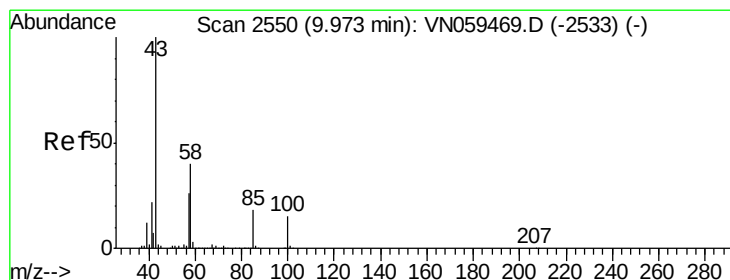
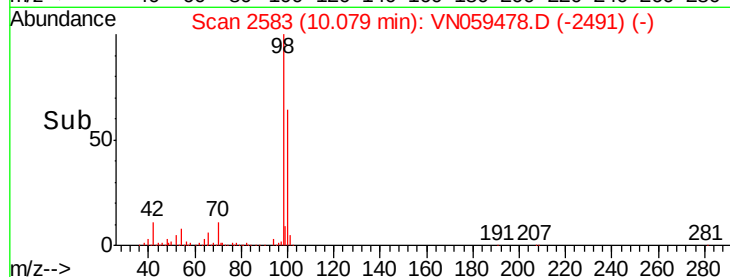
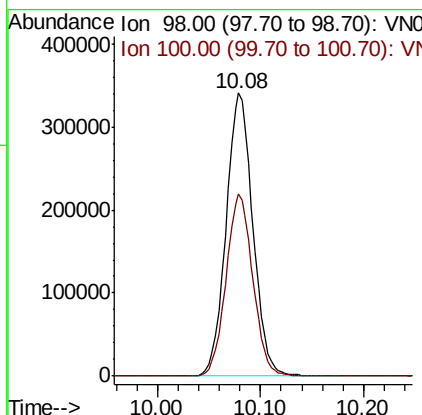
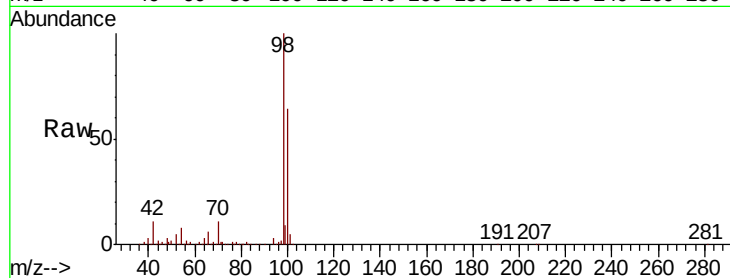




#50
Toluene-d8
Concen: 49.585 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

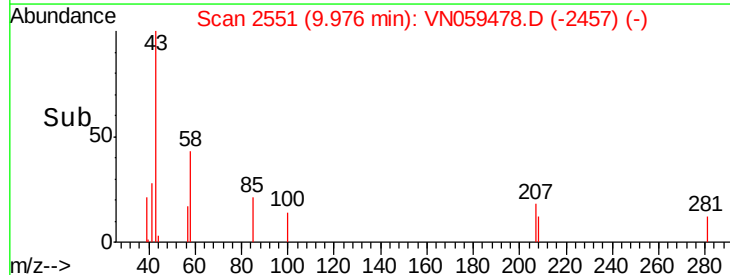
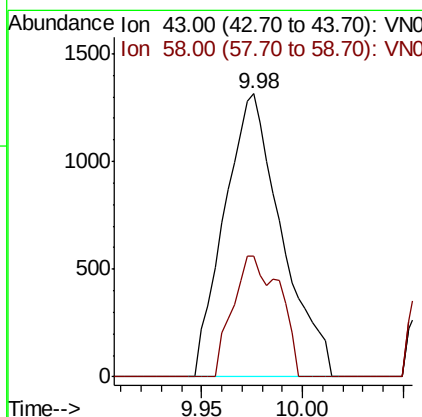
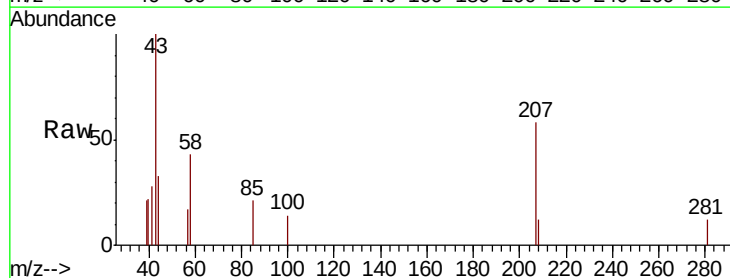
Instrument :
MSVOA_N
ClientSampleId :

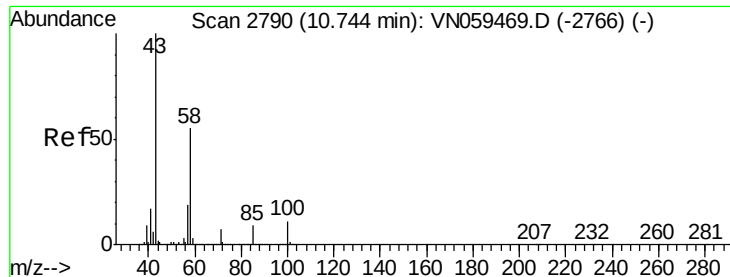
Tot Ion: 98 Resp: 615657
Ion Ratio Lower Upper
98 100
100 64.3 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.500 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Tgt Ion: 43 Resp: 2593
Ion Ratio Lower Upper
43 100
58 35.1 32.1 48.1

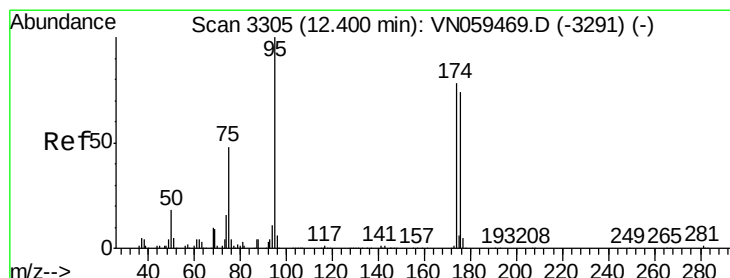
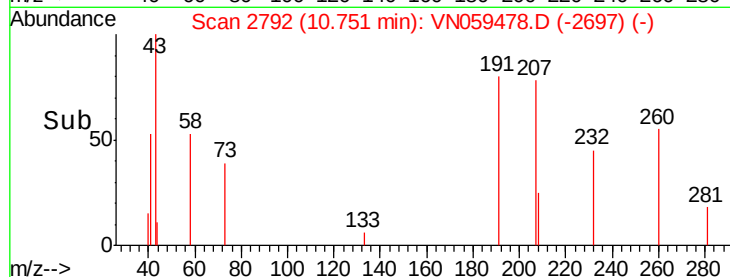
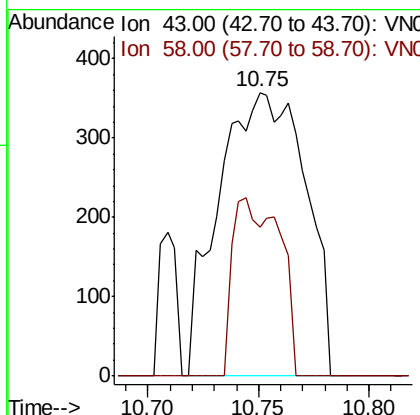
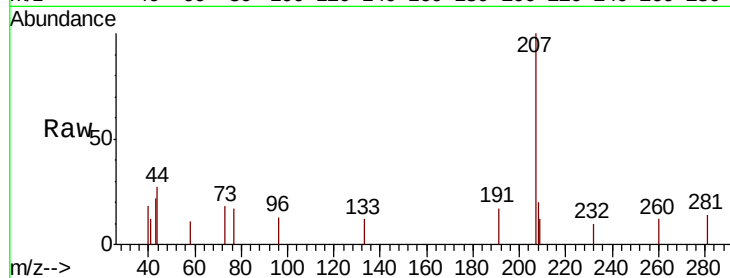




#59
2-Hexanone
Concen: 0.250 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

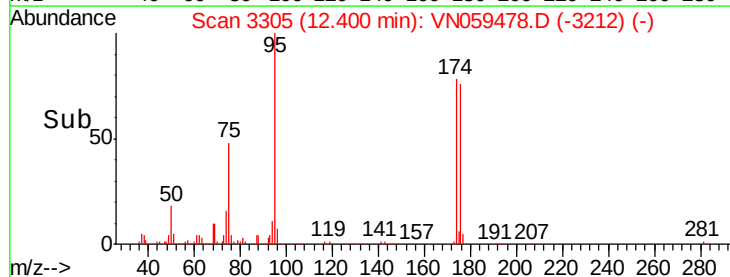
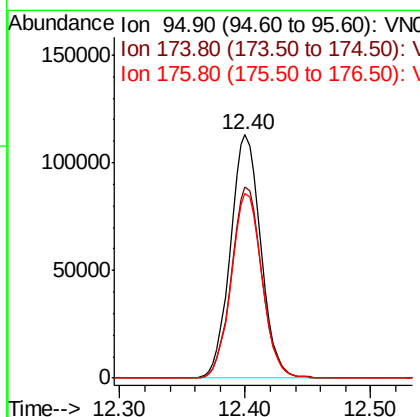
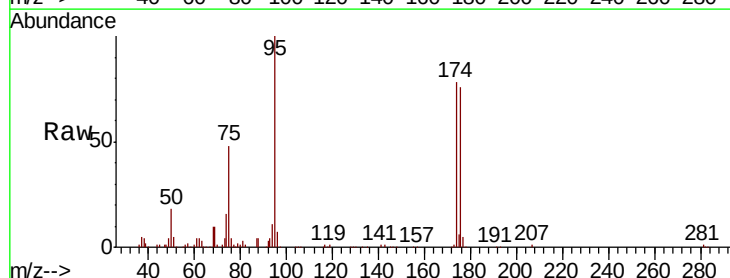
Instrument :
MSVOA_N
ClientSampled :

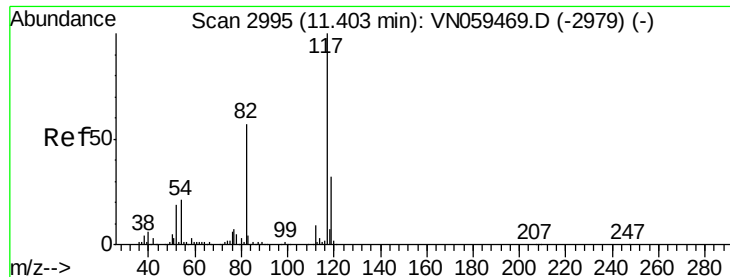
Tot Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
58 19.8 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 43.821 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Tgt Ion: 95 Resp: 190012
Ion Ratio Lower Upper
95 100
174 78.9 0.0 157.0
176 76.7 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

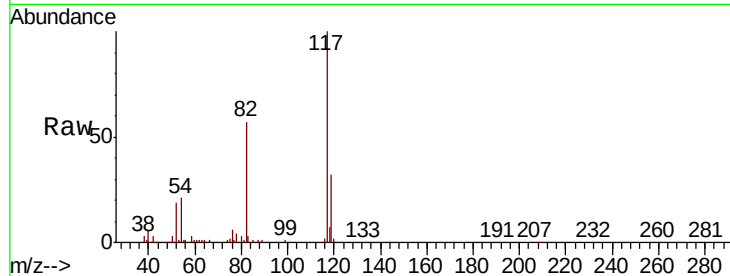
Tot Ion:117 Resp: 436074

Ion Ratio Lower Upper

117 100

82 57.1 45.8 68.8

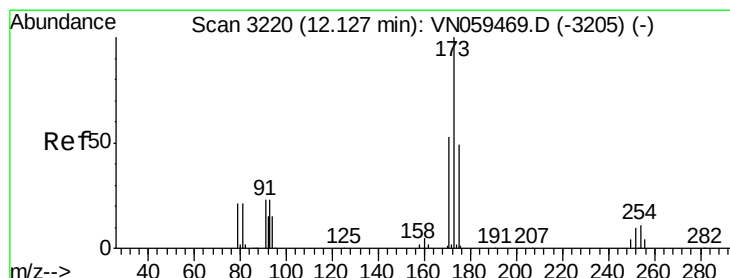
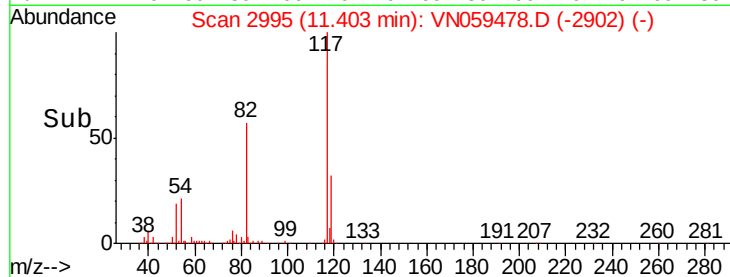
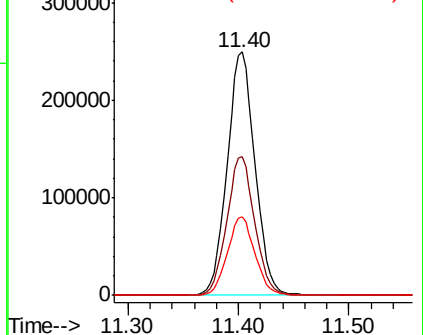
119 32.4 25.4 38.0



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: 0.425 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

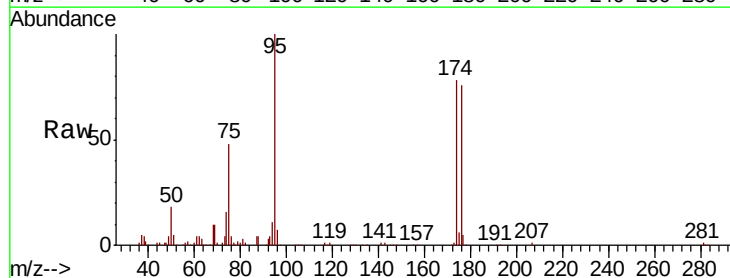
Tgt Ion:173 Resp: 1135

Ion Ratio Lower Upper

173 100

175 826.0 24.3 73.0#

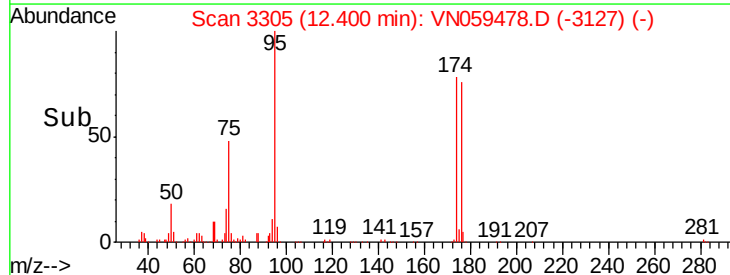
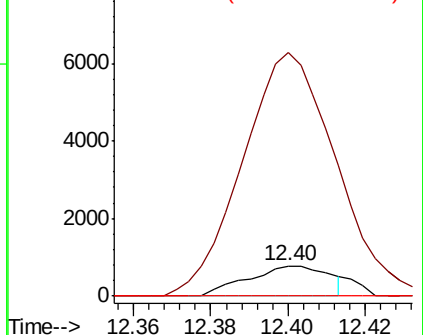
254 0.0 0.0 0.0

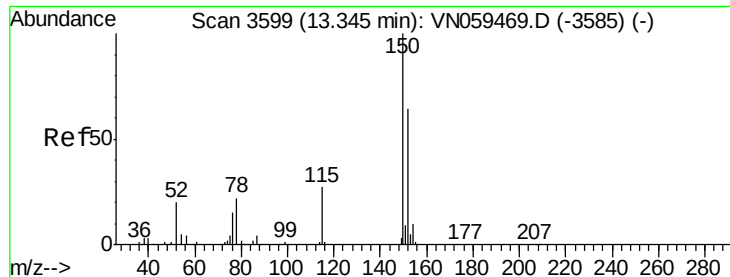


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



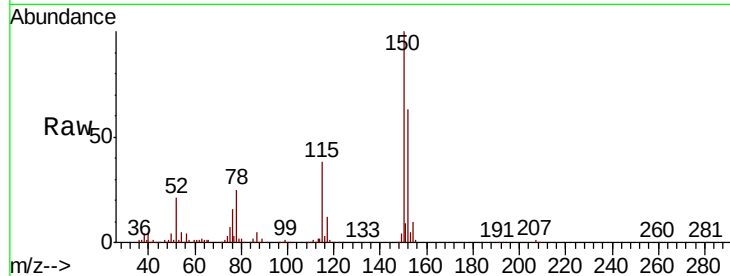


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.8	29.2	87.6
150	156.2	0.0	352.8

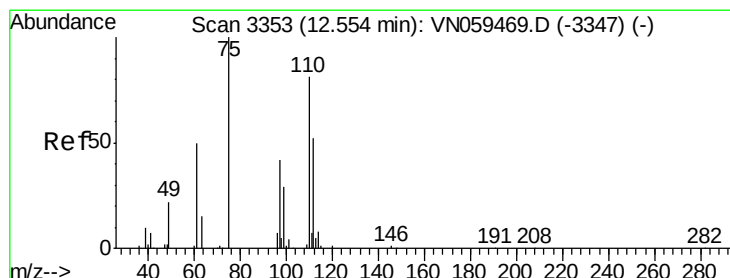
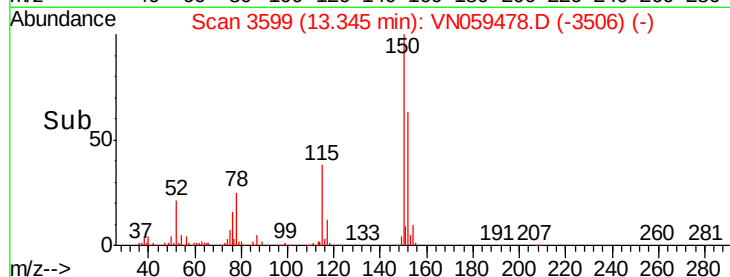
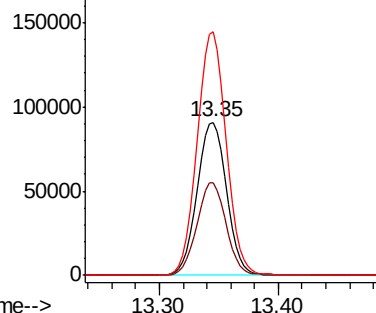


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

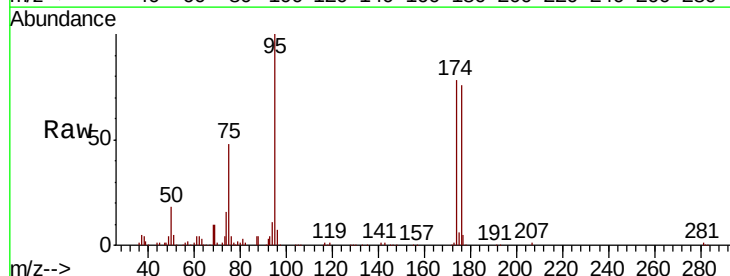
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 23.893 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059478.D
Acq: 4 Dec 2019 11:00

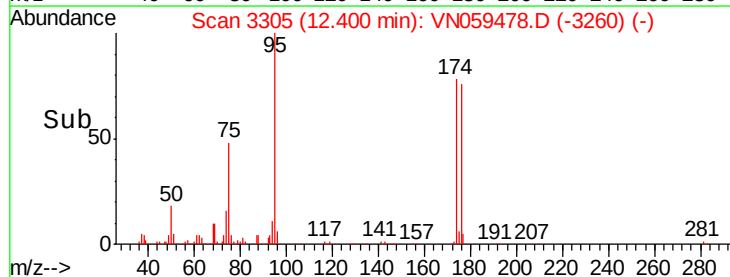
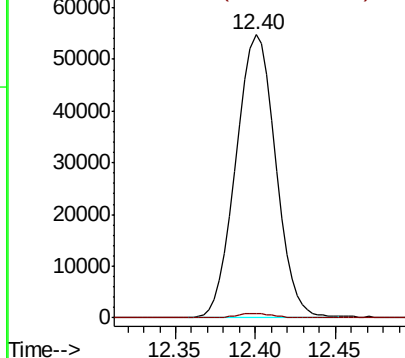
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#

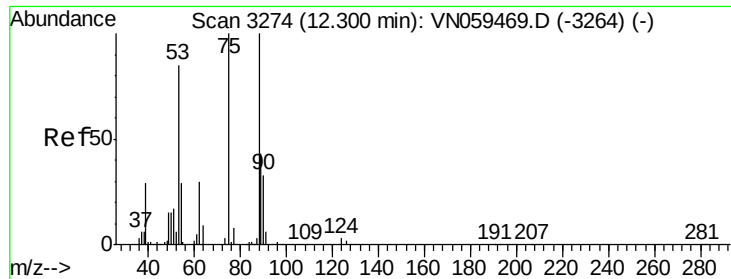


Abundance

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: 62.705 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

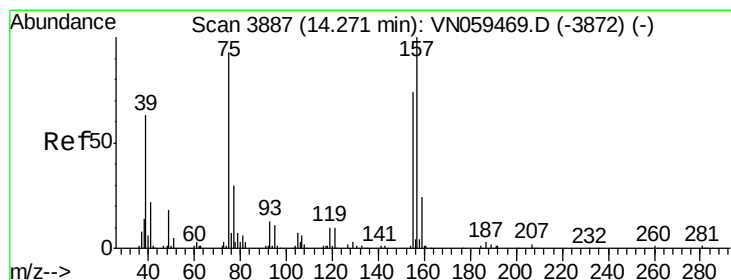
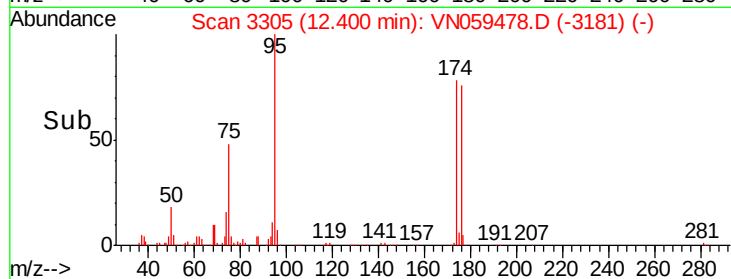
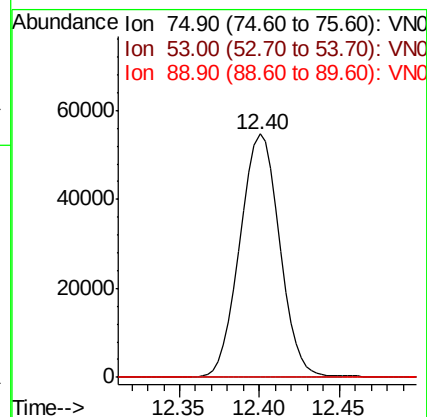
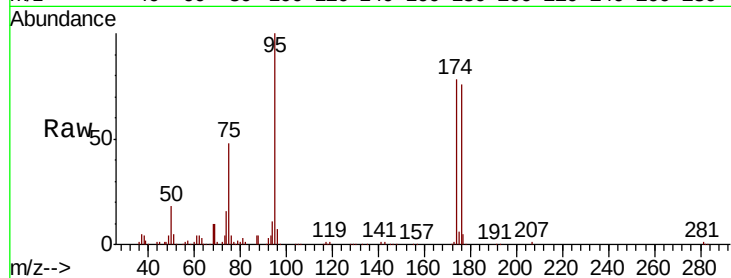
Tot Ion: 75 Resp: 92923

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.338 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.01 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

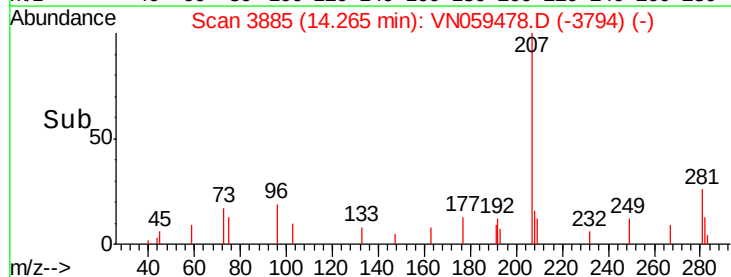
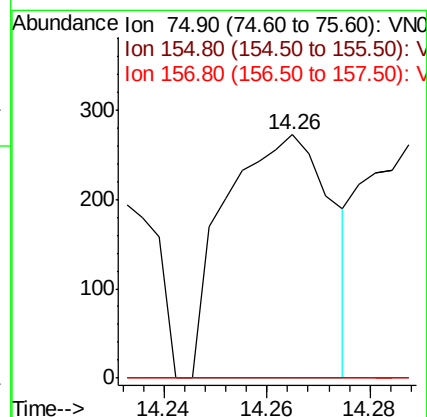
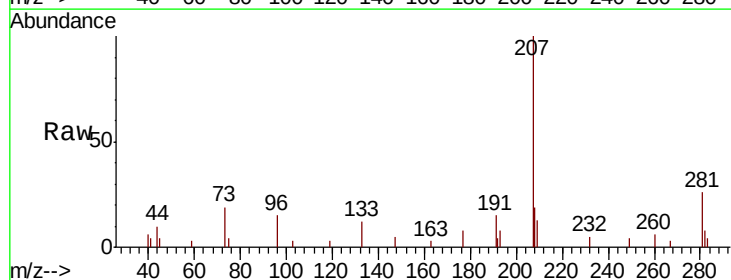
Tgt Ion: 75 Resp: 389

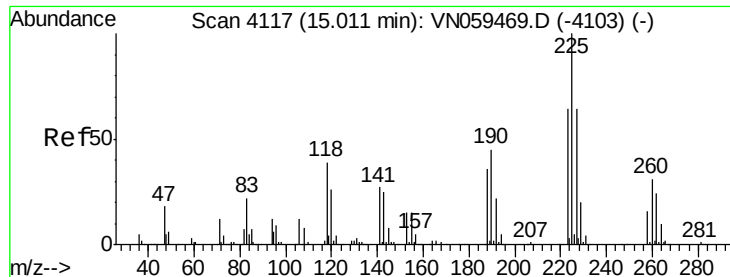
Ion Ratio Lower Upper

75 100

155 0.0 40.6 122.0#

157 0.0 52.9 158.7#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

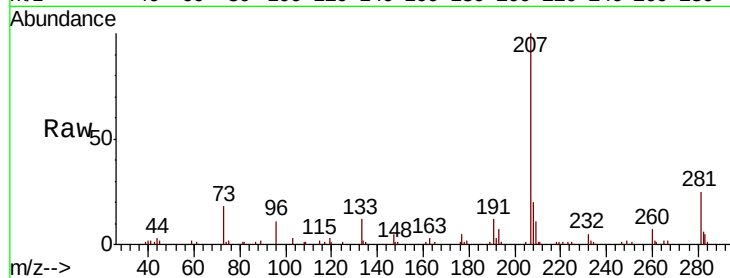
Tot Ion:225 Resp: 255

Ion Ratio Lower Upper

225 100

223 36.9 31.9 95.5

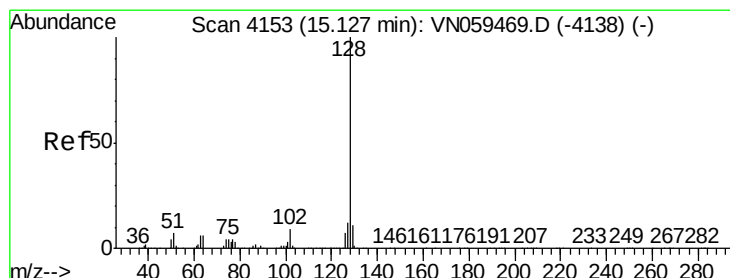
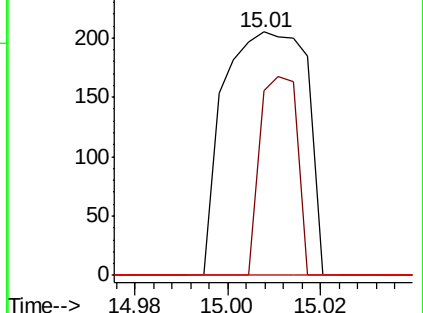
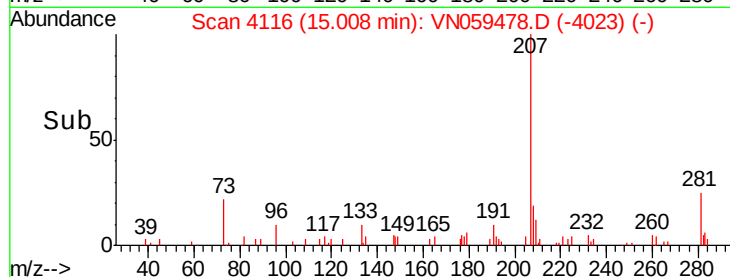
227 0.0 32.0 96.2#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.828 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059478.D

Acq: 4 Dec 2019 11:00

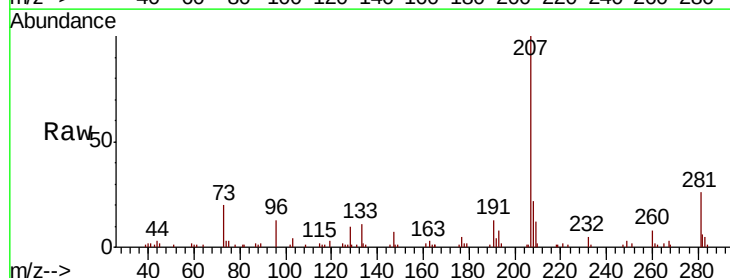
Tgt Ion:128 Resp: 3750

Ion Ratio Lower Upper

128 100

127 11.5 10.2 15.4

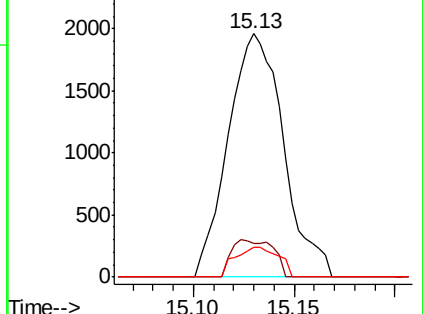
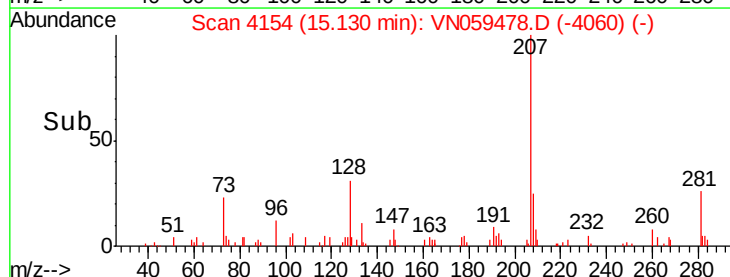
129 9.8 8.8 13.2

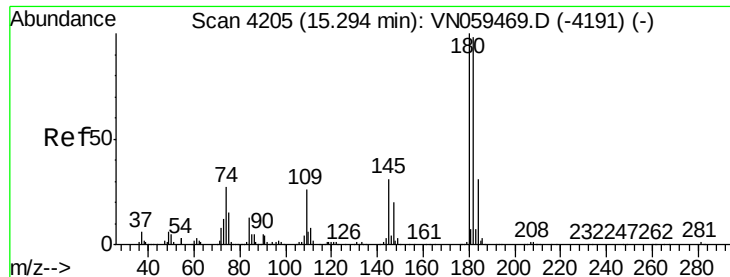


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

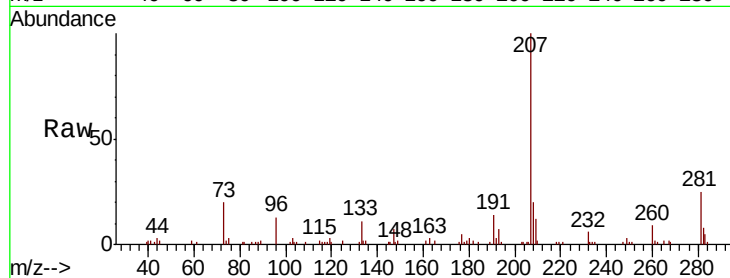




#96
 1,2,3-Trichlorobenzene
 Concen: 2.314 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN059478.D
 Acq: 4 Dec 2019 11:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	78.8	48.5	145.5
145	26.9	16.1	48.2



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

