

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058584.D
 Acq On : 7 Oct 2019 21:56
 Operator : JC/SP
 Sample : K5215-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

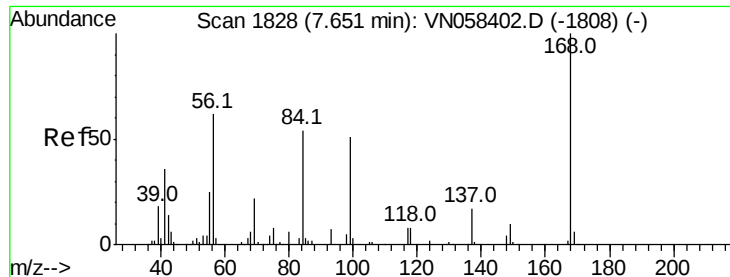
Quant Time: Oct 08 14:08:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	486480	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	747117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	657884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	272739	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	325951	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
35) Dibromofluoromethane	7.57	113	233957	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
50) Toluene-d8	10.08	98	934150	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
62) 4-Bromofluorobenzene	12.41	95	310247	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2208	0.377	ug/l #	88
11) Tert butyl alcohol	4.76	59	5073	6.423	ug/l #	71
16) Acetone	3.80	43	15774	6.509	ug/l	100
18) Methyl Acetate	4.31	43	2395	0.393	ug/l #	59
19) Methyl tert-butyl Ether	5.02	73	206542	12.756	ug/l	99
20) Methylene Chloride	4.54	84	5228	0.935	ug/l #	75
22) Diisopropyl ether	5.93	45	4238	0.236	ug/l #	89
29) Tetrahydrofuran	7.20	42	18294	8.663	ug/l	96
31) Cyclohexane	7.64	56	11343	1.153	ug/l #	20
36) 1,1-Dichloropropene	7.65	75	39058	5.467	ug/l #	52
38) Carbon Tetrachloride	7.65	117	48683	7.550	ug/l #	16
41) Methacrylonitrile	7.19	41	11105	3.985	ug/l #	40
60) Dibromochloromethane	10.63	129	429	Below Cal	#	11
71) Bromoform	12.41	173	1194	1.081	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	166643	33.452	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	166643	101.597	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

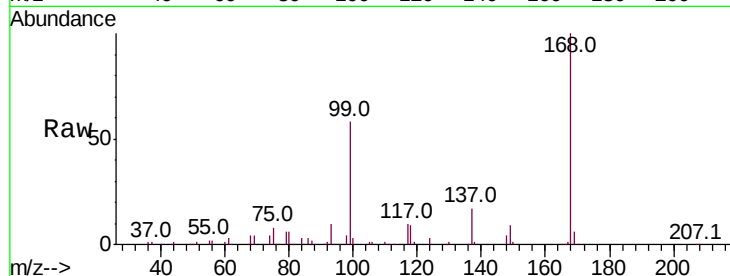
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 486480

Ion Ratio Lower Upper

168 100

99 58.2 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

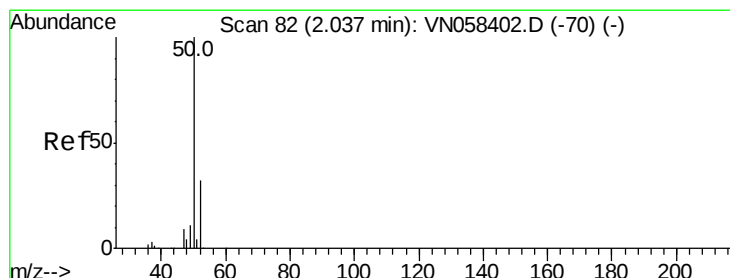
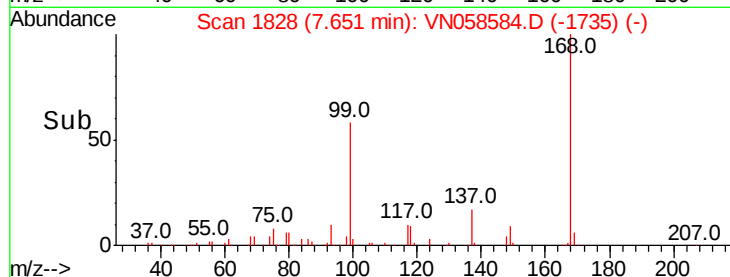
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.377 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058584.D

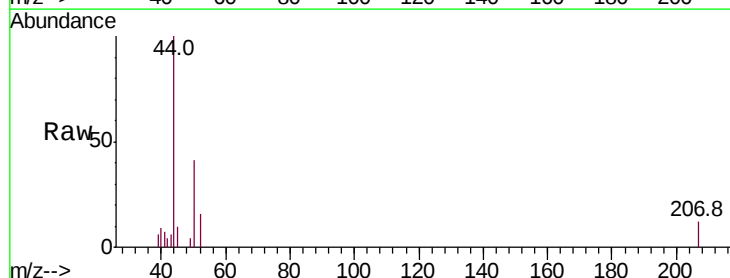
Acq: 7 Oct 2019 21:56

Tgt Ion: 50 Resp: 2208

Ion Ratio Lower Upper

50 100

52 39.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VN

2.04

1500

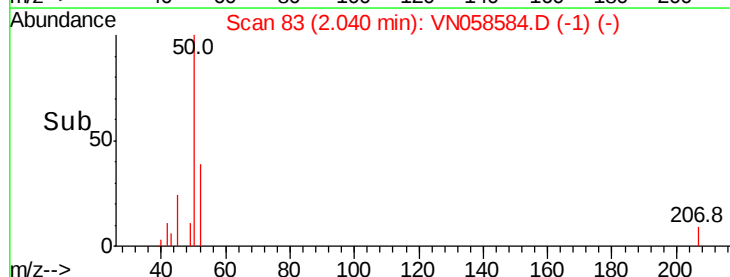
1000

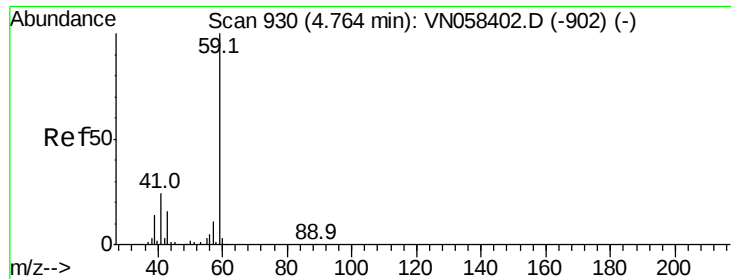
500

0

2.00 2.05

Time-->

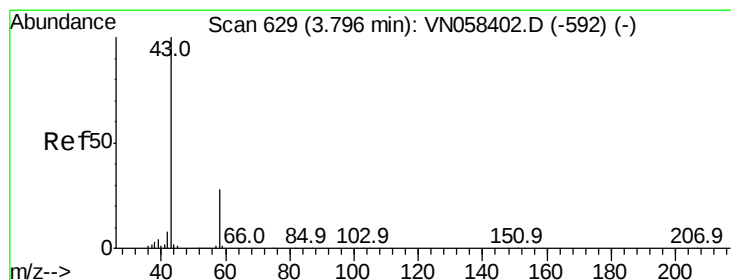
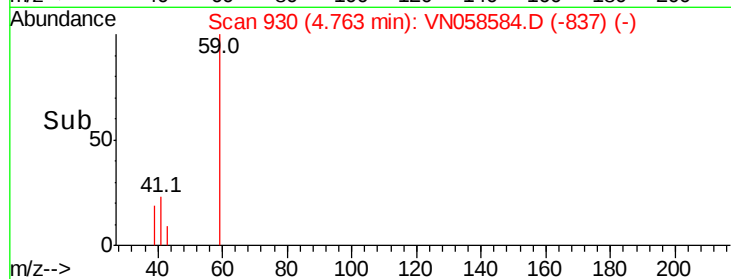
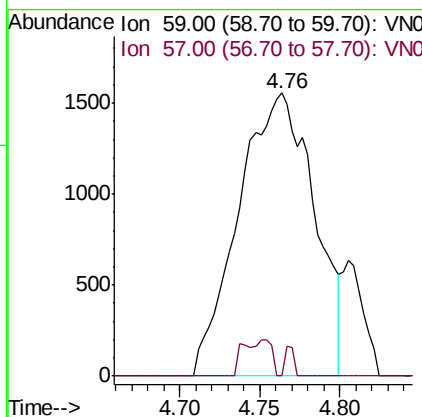
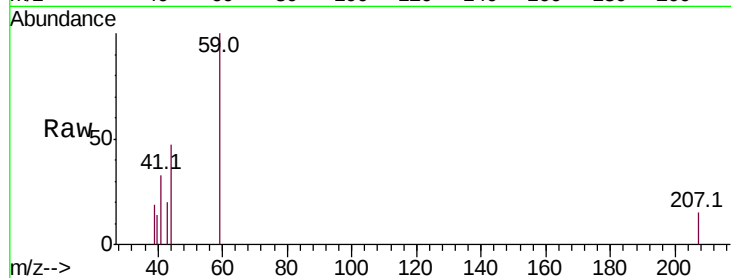




#11
Tert butyl alcohol
Concen: 6.423 ug/l
RT: 4.76 min Scan# 930
Delta R.T. -0.00 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

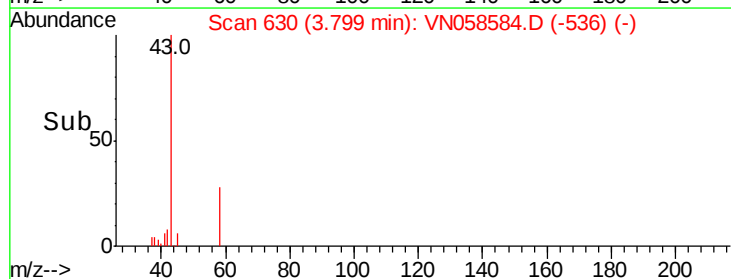
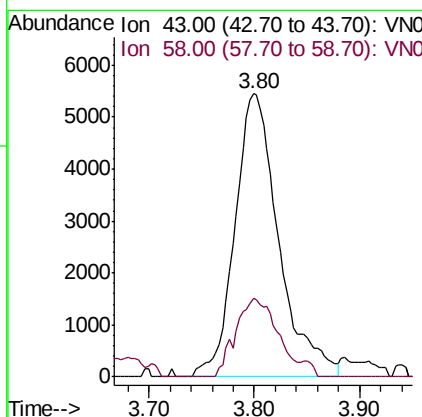
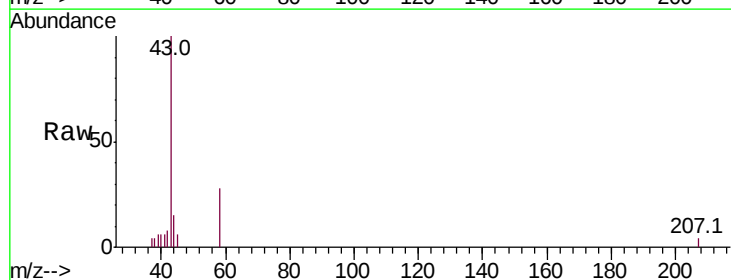
Instrument :
MSVOA_N
ClientSampled :

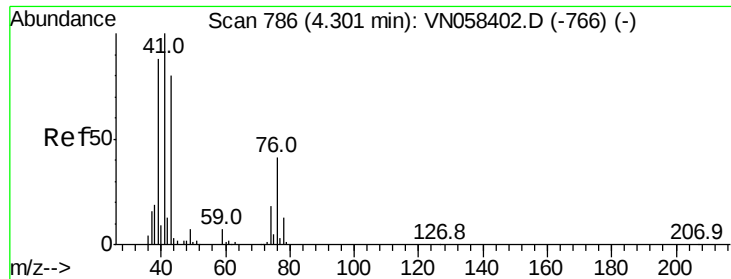
Tot Ion: 59 Resp: 5073
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 6.509 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

Tgt Ion: 43 Resp: 15774
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

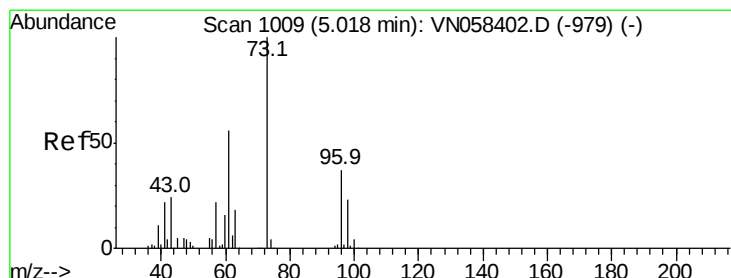
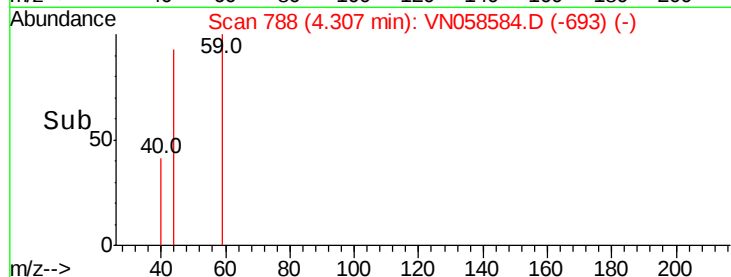
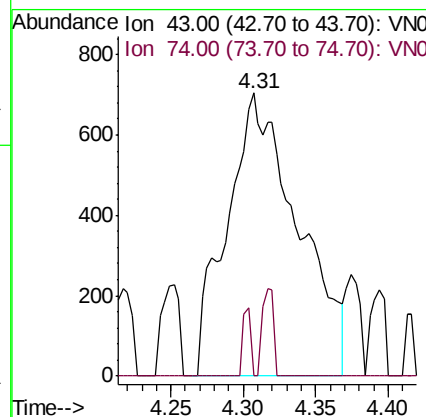
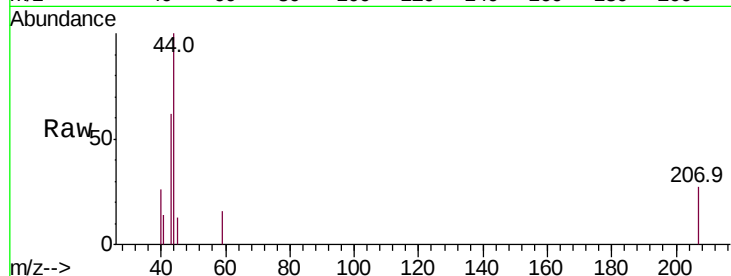




#18
Methyl Acetate
Concen: 0.393 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

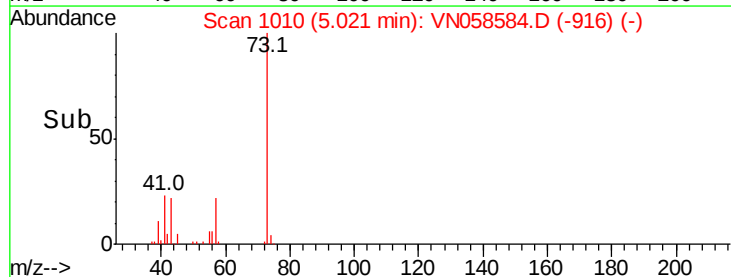
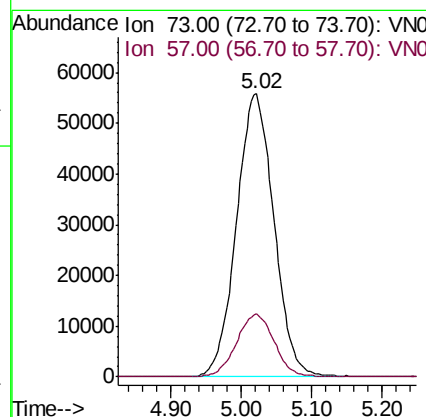
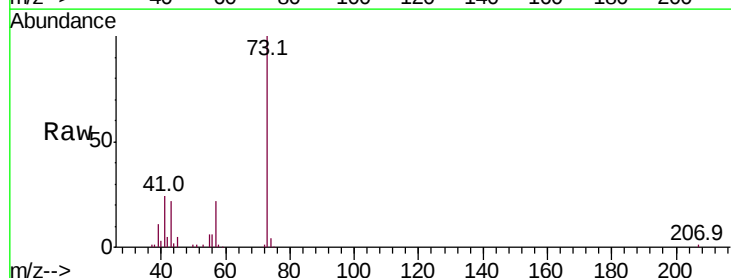
Instrument :
MSVOA_N
ClientSampled :

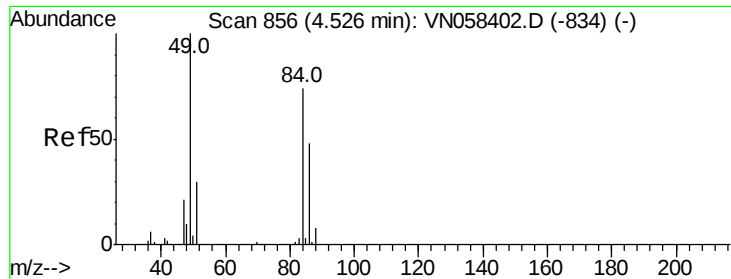
Tot Ion: 43 Resp: 2395
Ion Ratio Lower Upper
43 100
74 2.6 18.0 27.0#



#19
Methyl tert-butyl Ether
Concen: 12.756 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

Tgt Ion: 73 Resp: 206542
Ion Ratio Lower Upper
73 100
57 22.3 17.6 26.4

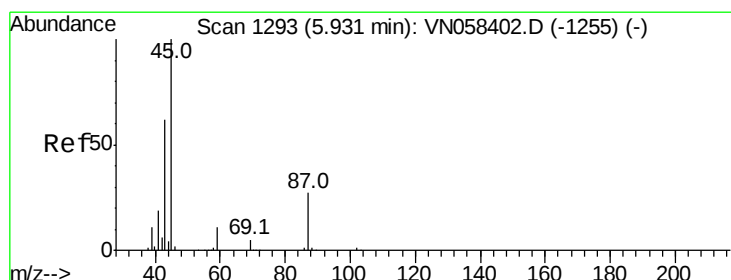
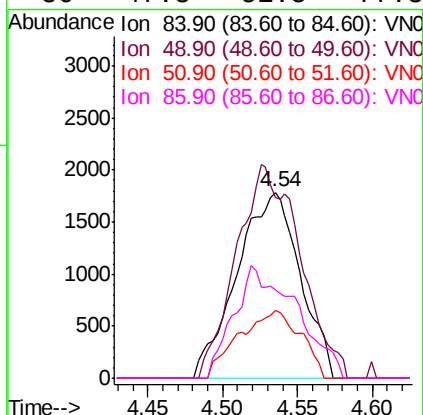
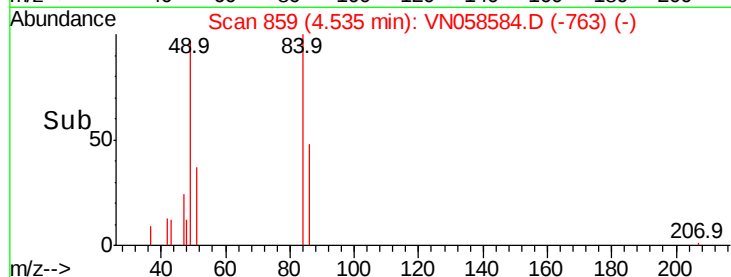
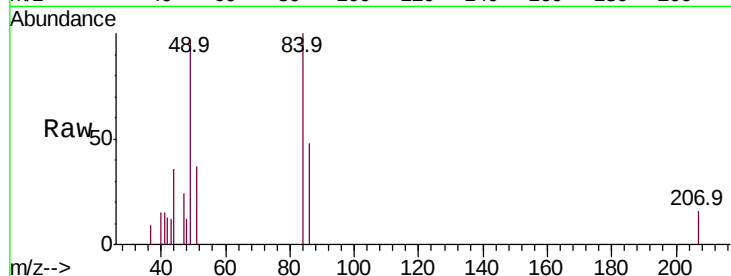




#20
Methvlene Chloride
Concen: 0.935 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

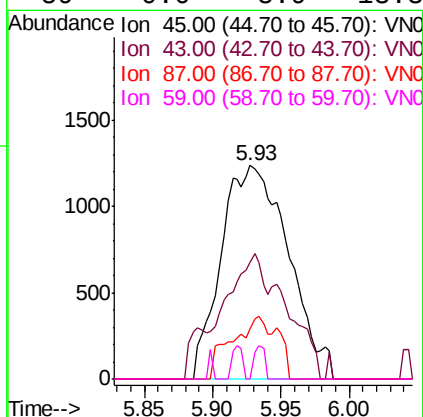
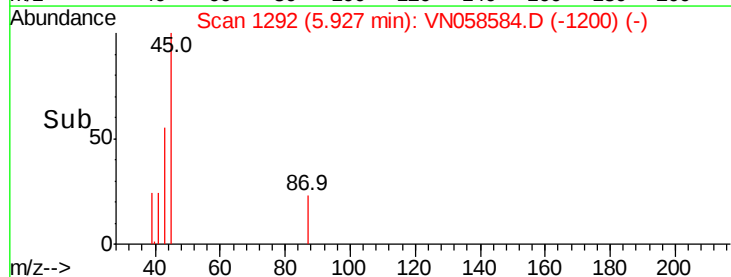
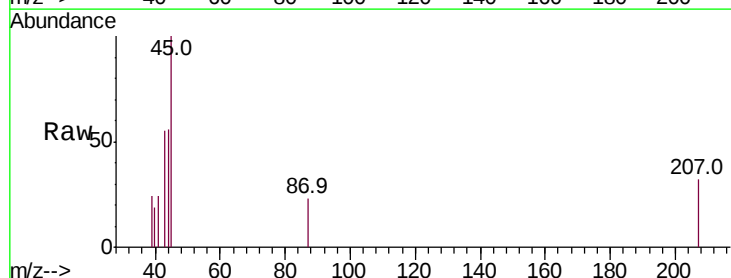
Instrument :
MSVOA_N
ClientSampleId :

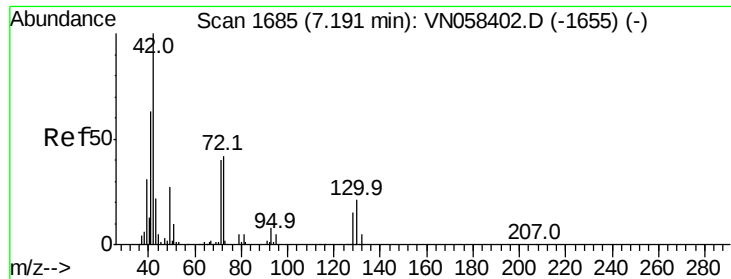
Tot Ion: 84 Resp: 5228
Ion Ratio Lower Upper
84 100
49 96.7 107.9 161.9#
51 36.5 32.8 49.2
86 47.8 51.5 77.3#



#22
Diisopropyl ether
Concen: 0.236 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

Tgt Ion: 45 Resp: 4238
Ion Ratio Lower Upper
45 100
43 54.8 49.7 74.5
87 23.1 21.5 32.3
59 0.0 8.9 13.3#

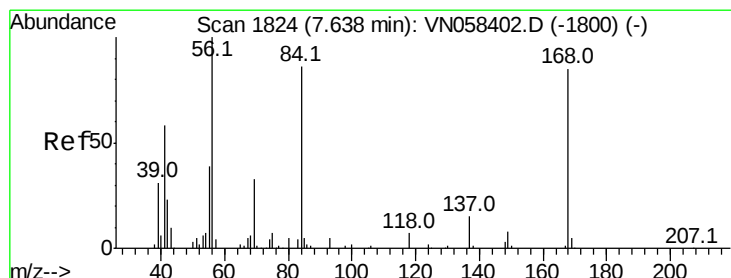
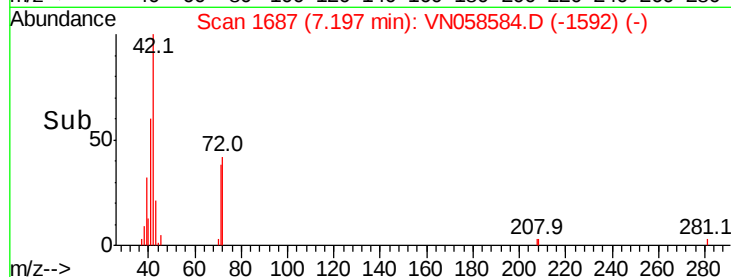
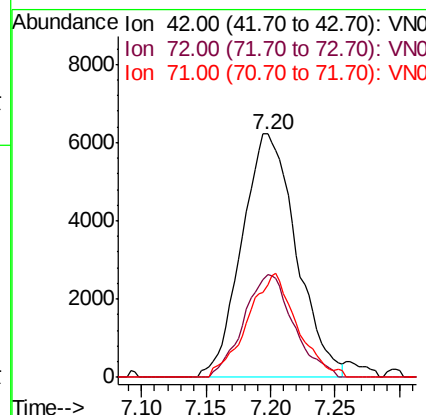
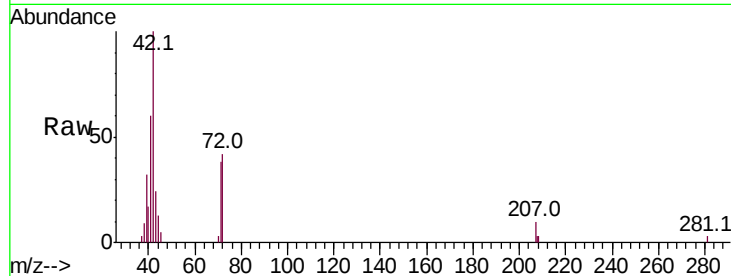




#29
Tetrahydrofuran
Concen: 8.663 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

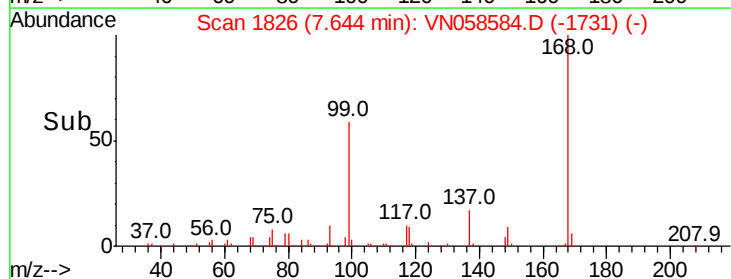
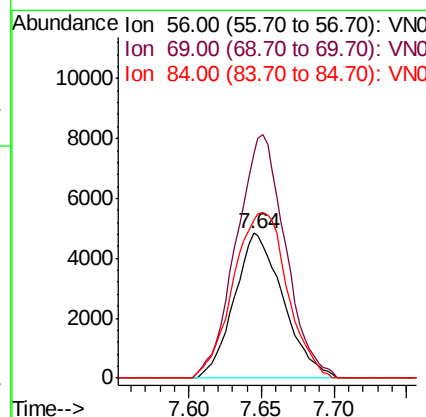
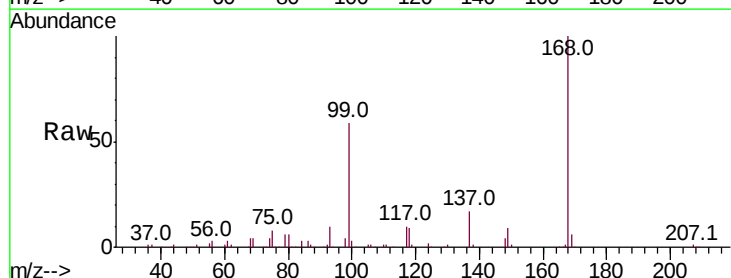
Instrument :
MSVOA_N
ClientSampleId :

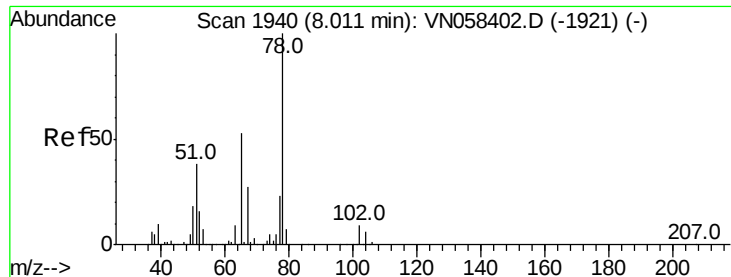
Tot Ion: 42 Resp: 18294
Ion Ratio Lower Upper
42 100
72 38.6 33.7 50.5
71 38.8 31.8 47.6



#31
Cyclohexane
Concen: 1.153 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

Tgt Ion: 56 Resp: 11343
Ion Ratio Lower Upper
56 100
69 155.0 26.2 39.4#
84 109.0 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 45.850 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

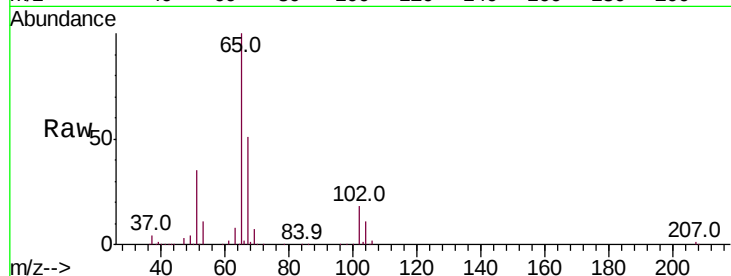
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 325951

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058402.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN058402.D (-1921) (-)

8.01

150000

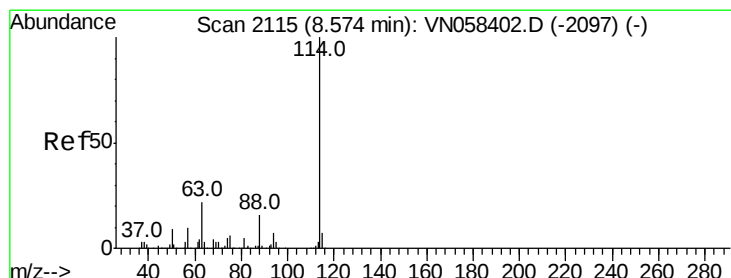
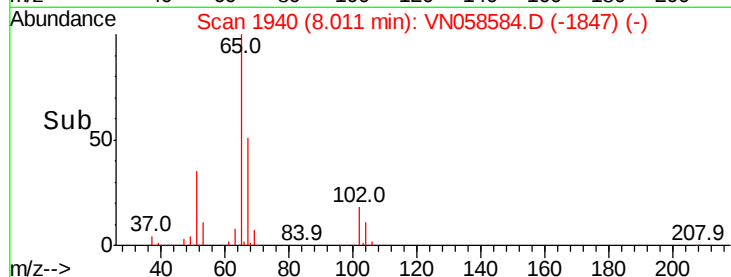
100000

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: VN058584.D

Acq: 7 Oct 2019 21:56

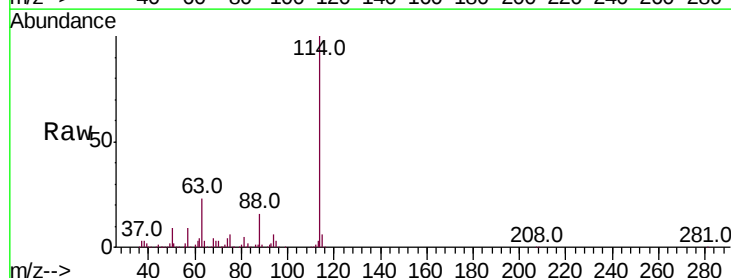
Tgt Ion: 114 Resp: 747117

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.0

88 16.4 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN058402.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN058402.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN058402.D (-2097) (-)

8.57

400000

300000

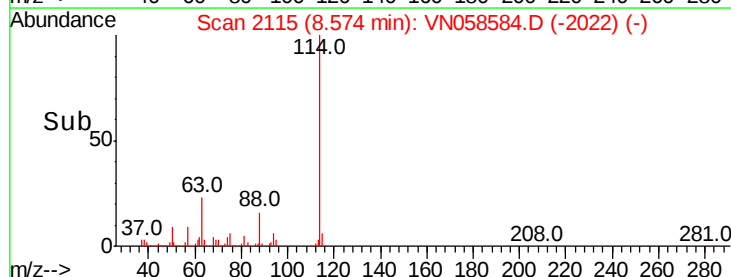
200000

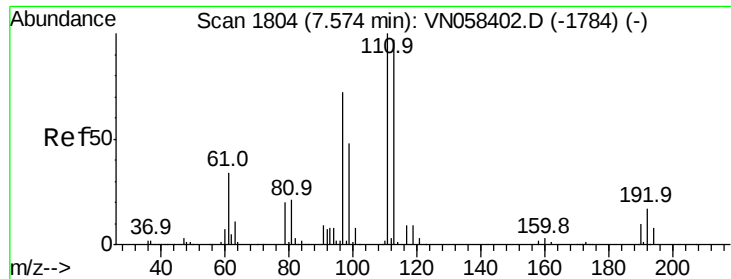
100000

0

8.50 8.60 8.70

Time-->

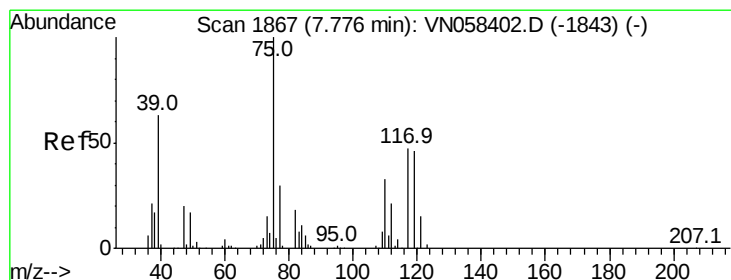
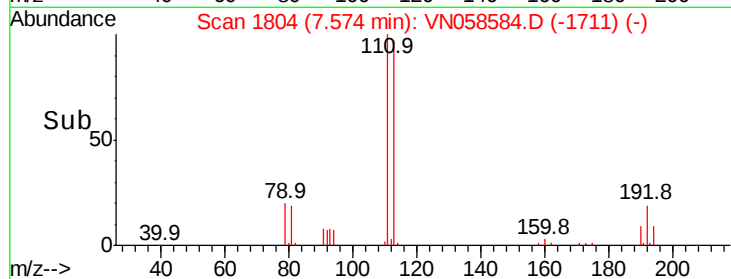
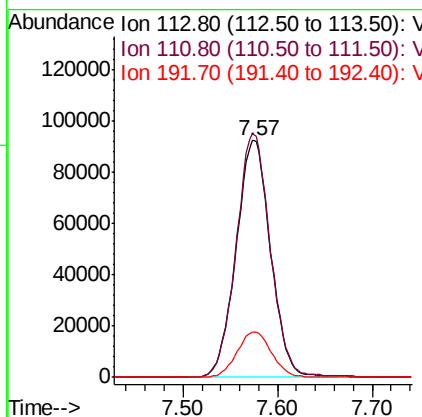
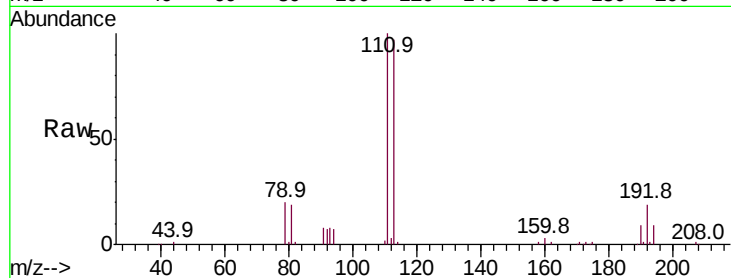




#35
Dibromofluoromethane
Concen: 51.093 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

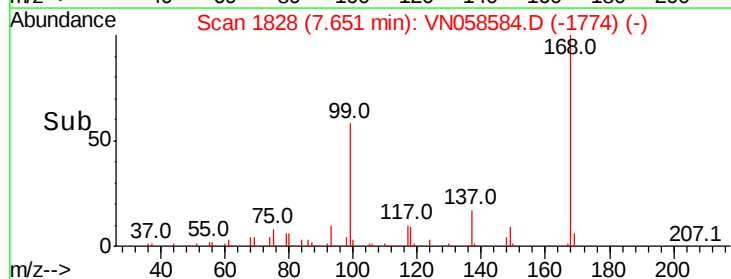
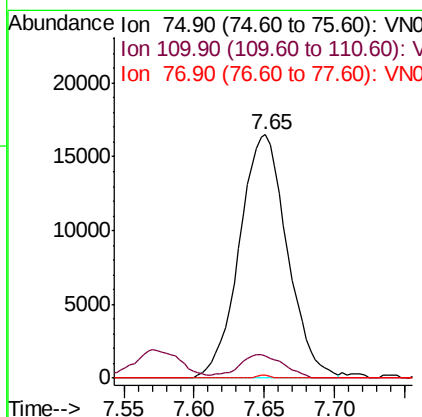
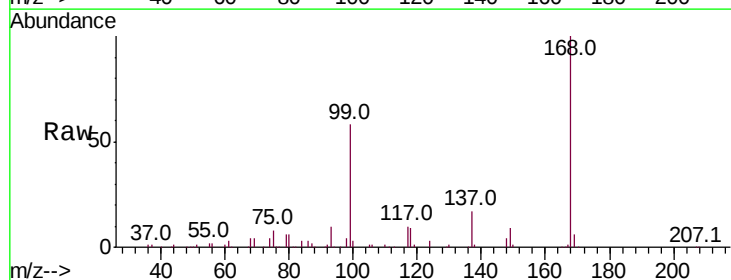
Instrument :
MSVOA_N
ClientSampleId :

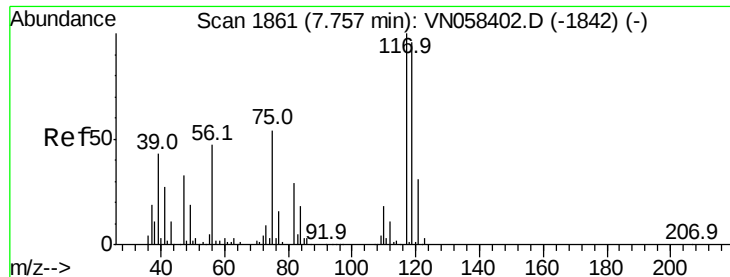
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.4	125.2
192	19.2	14.9	22.3



#36
1,1-Dichloropropene
Concen: 5.467 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.13 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.4	49.2#
77	0.3	24.3	36.5#

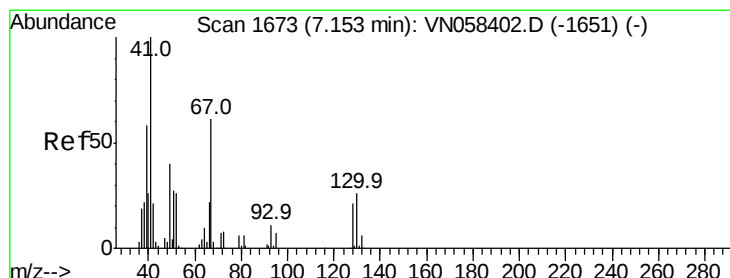
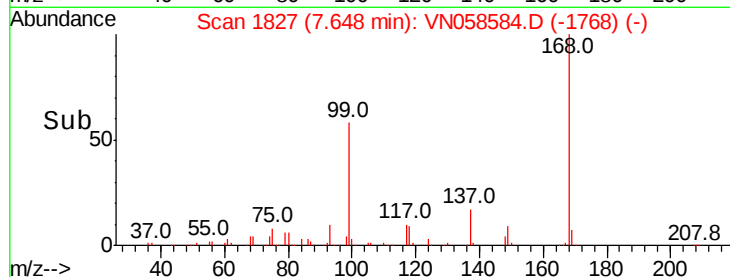
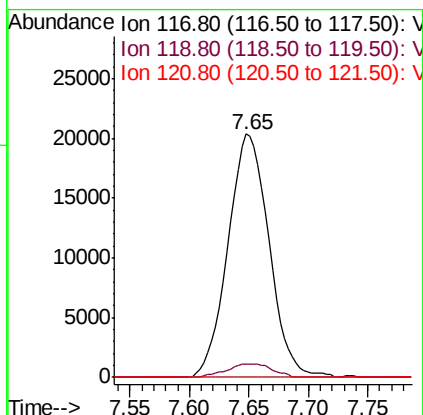
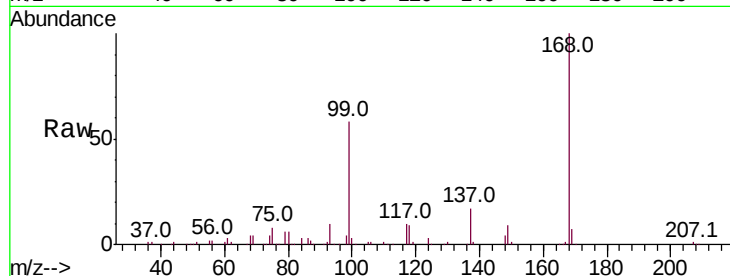




#38
Carbon Tetrachloride
Concen: 7.550 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

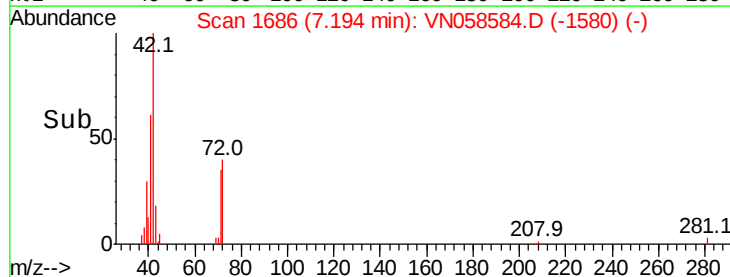
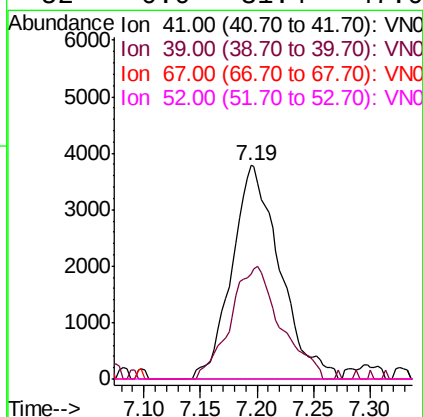
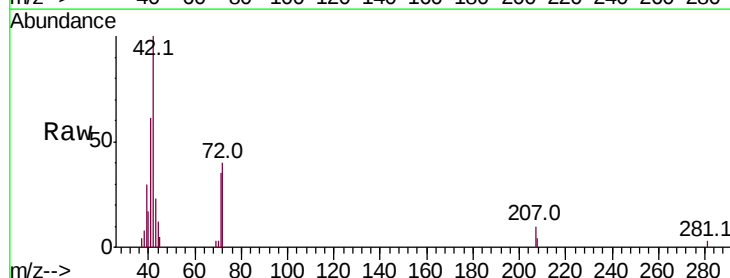
Instrument :
MSVOA_N
ClientSampled :

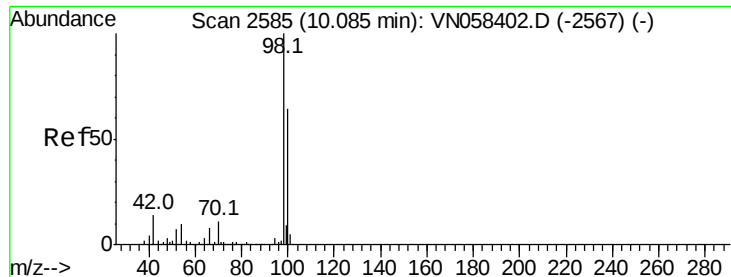
Tot Ion:117 Resp: 48683
Ion Ratio Lower Upper
117 100
119 5.4 76.6 115.0#
121 0.0 24.7 37.1#



#41
Methacrylonitrile
Concen: 3.985 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN058584.D
Acq: 7 Oct 2019 21:56

Tgt Ion: 41 Resp: 11105
Ion Ratio Lower Upper
41 100
39 55.0 50.2 75.4
67 0.0 70.2 105.4#
52 0.0 31.4 47.0#





#50

Toluene-d8

Concen: 52.077 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

Instrument :

MSVOA_N

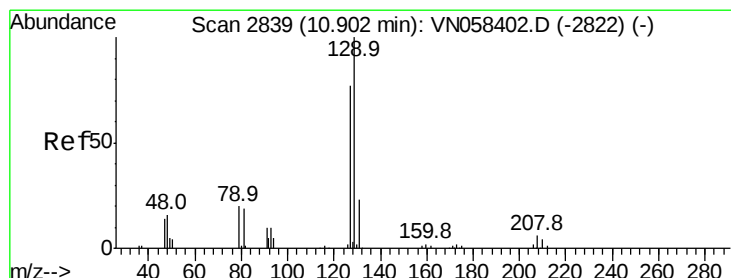
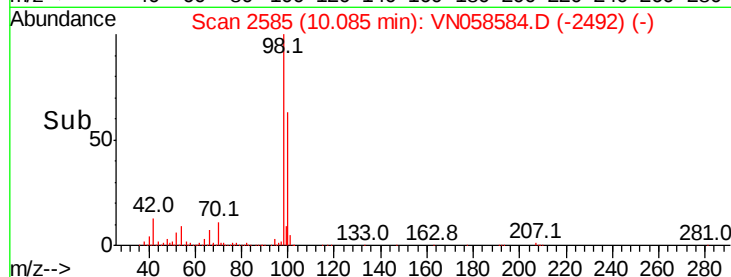
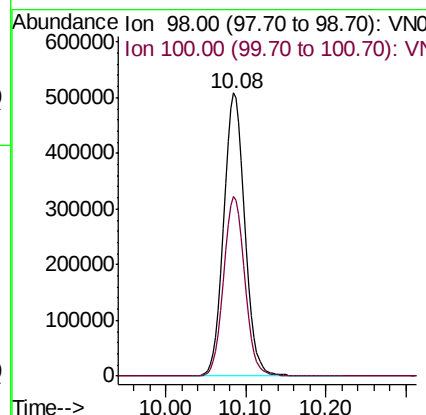
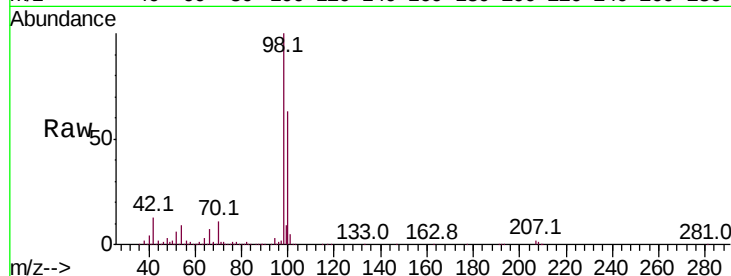
ClientSampleId :

Tot Ion: 98 Resp: 934150

Ion Ratio Lower Upper

98 100

100 63.8 51.0 76.6



#60

Dibromochloromethane

Concen: Below Cal

RT: 10.63 min Scan# 2753

Delta R.T. -0.28 min

Lab File: VN058584.D

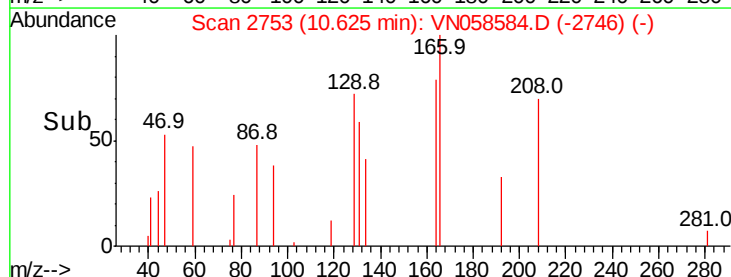
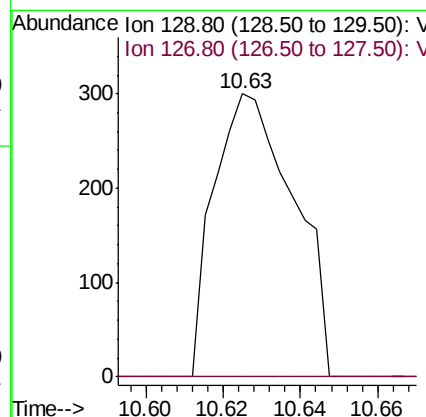
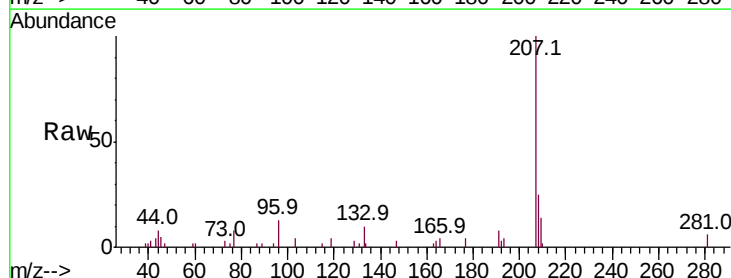
Acq: 7 Oct 2019 21:56

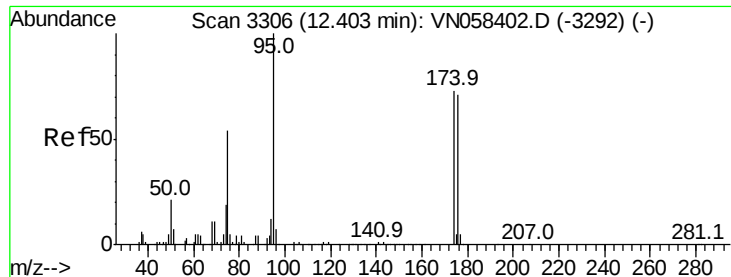
Tgt Ion: 129 Resp: 429

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 47.833 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

Instrument :

MSVOA_N

ClientSampleId :

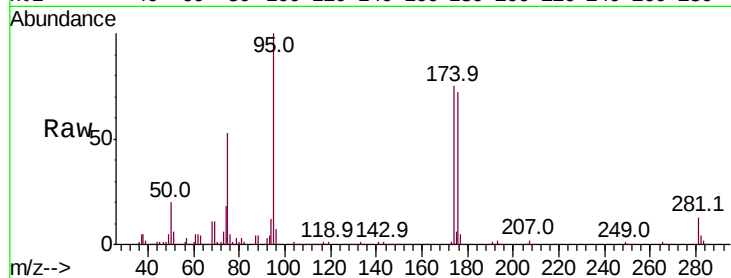
Tot Ion: 95 Resp: 310247

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.6

176 73.7 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

12.41

250000

200000

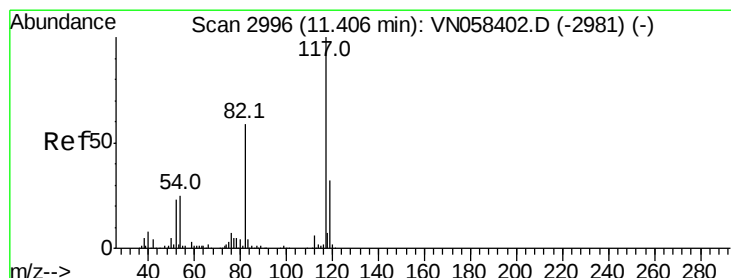
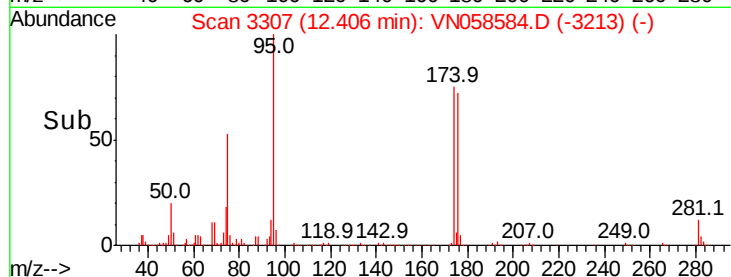
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

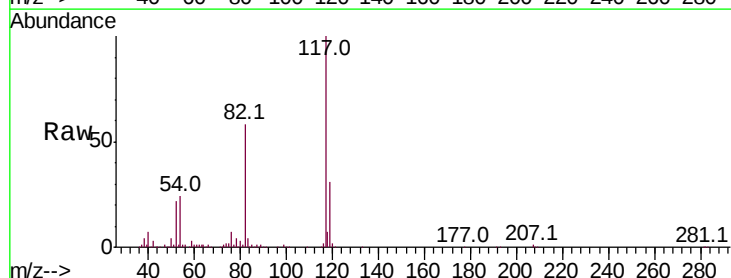
Tgt Ion: 117 Resp: 657884

Ion Ratio Lower Upper

117 100

82 58.4 47.4 71.0

119 31.2 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

11.41

500000

400000

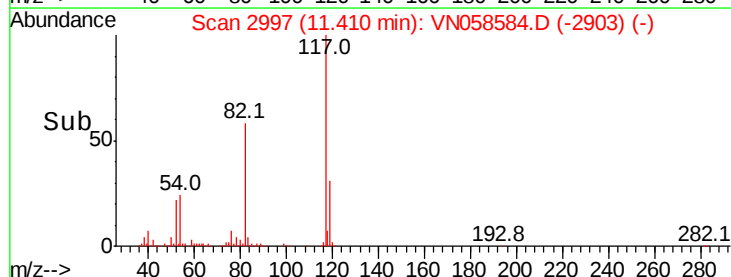
300000

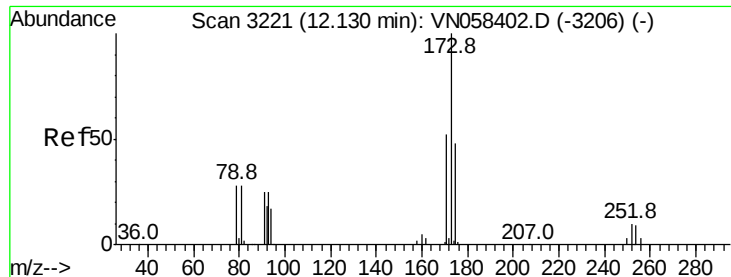
200000

100000

0

Time-->





#71

Bromoform

Concen: 1.081 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

Instrument :

MSVOA_N

ClientSampled :

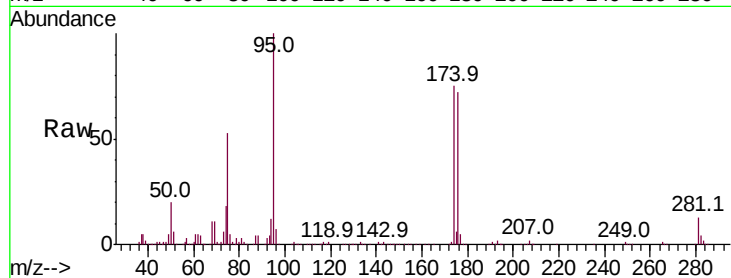
Tot Ion:173 Resp: 1194

Ion Ratio Lower Upper

173 100

175 1240.7 24.3 73.0#

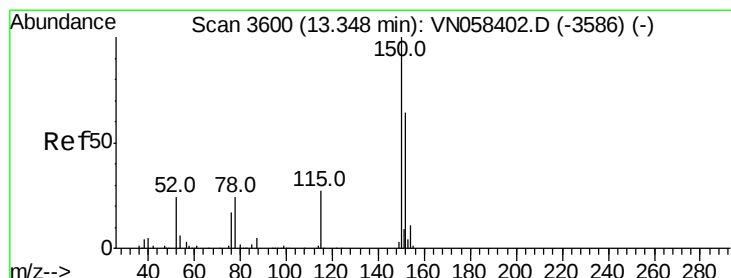
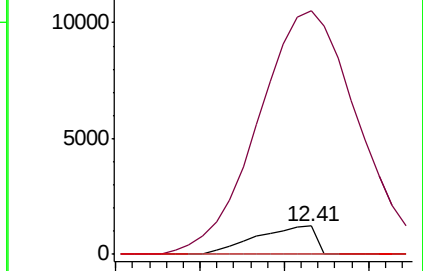
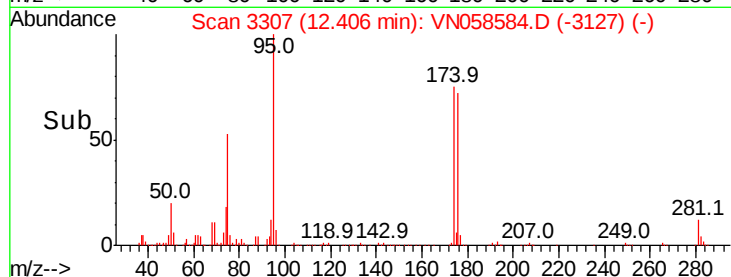
254 0.0 0.1 0.1#



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: VN058584.D

Acq: 7 Oct 2019 21:56

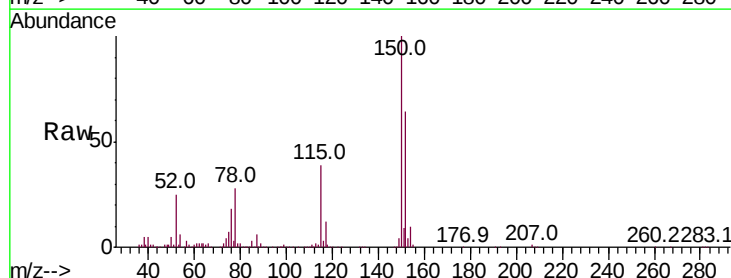
Tgt Ion:152 Resp: 272739

Ion Ratio Lower Upper

152 100

115 60.6 30.0 90.0

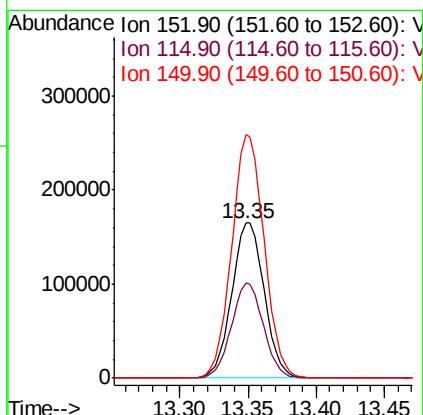
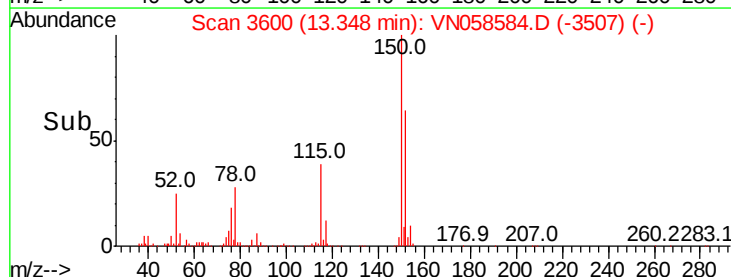
150 156.6 0.0 348.2

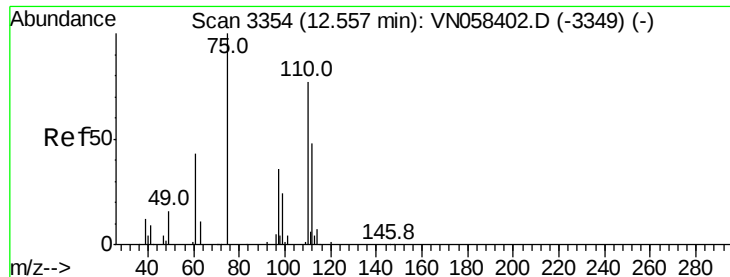


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.452 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

Instrument :

MSVOA_N

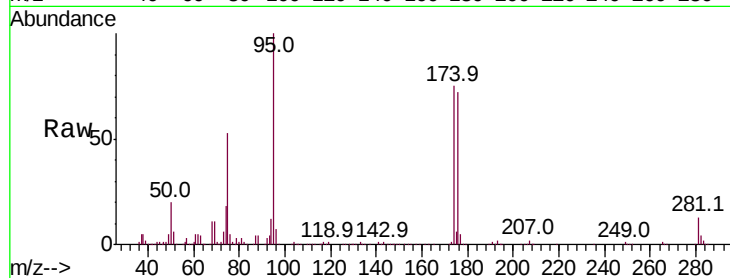
ClientSampleId :

Tot Ion: 75 Resp: 166643

Ion Ratio Lower Upper

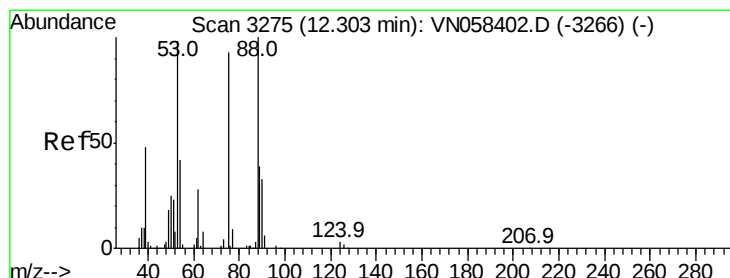
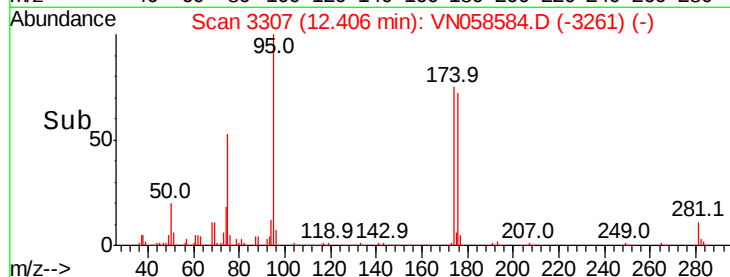
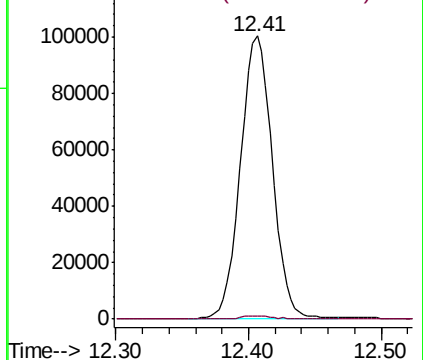
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC



#81

trans-1,4-Dichloro-2-butene

Concen: 101.597 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058584.D

Acq: 7 Oct 2019 21:56

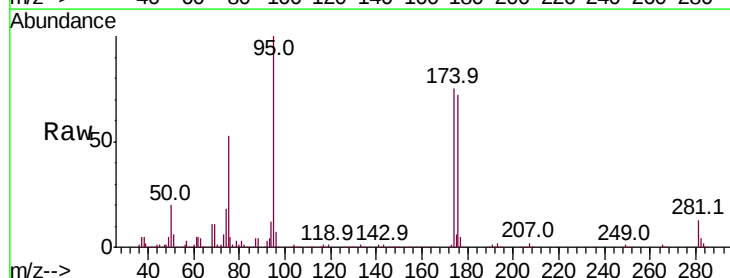
Tgt Ion: 75 Resp: 166643

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.2 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 53.00 (52.70 to 53.70): VNC

Ion 88.90 (88.60 to 89.60): VNC

