

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058532.D
 Acq On : 4 Oct 2019 12:09
 Operator : JC/SP
 Sample : K5169-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:35:53 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

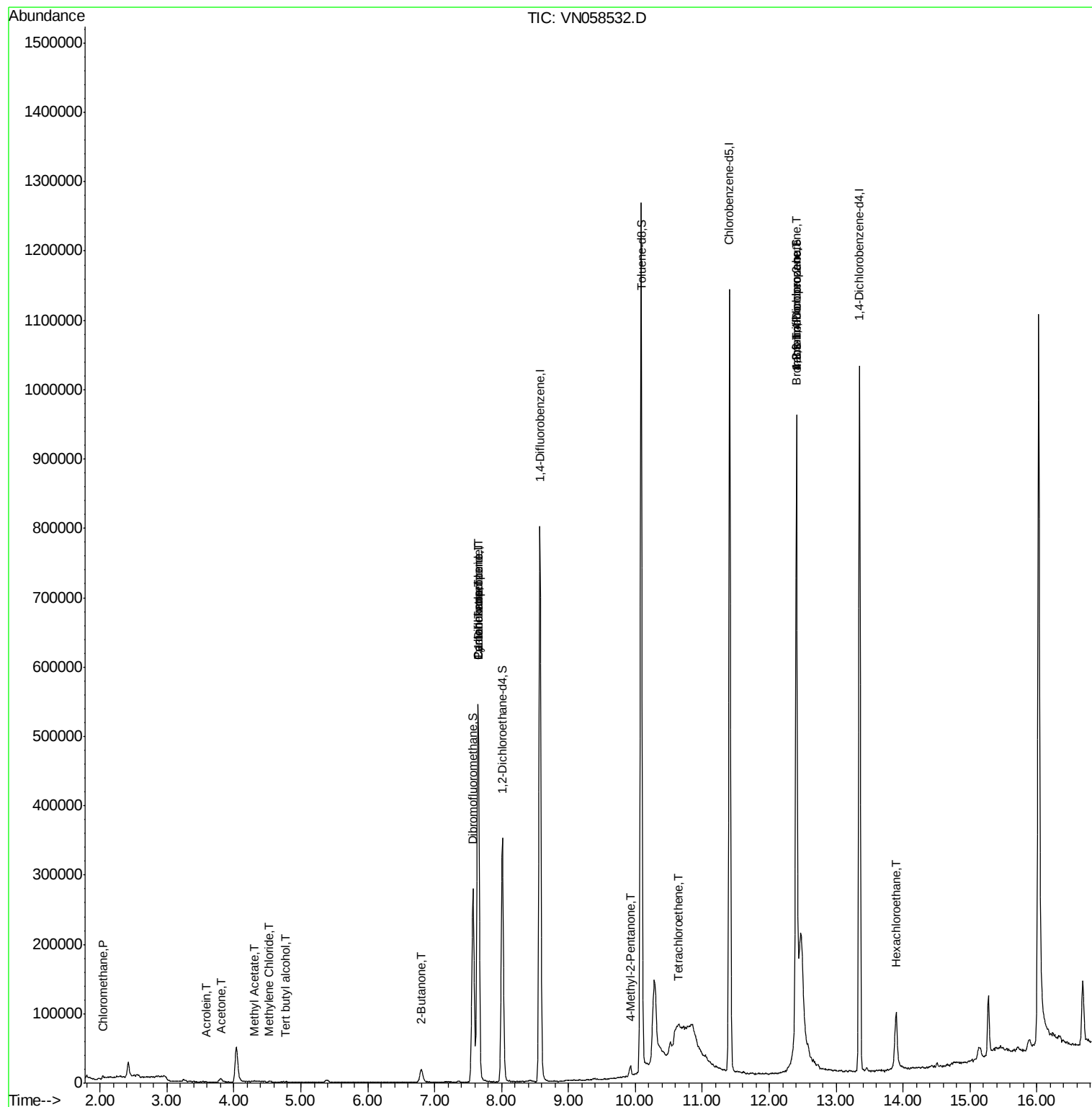
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	427490	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	695708	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	615516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	255093	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	305900	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
35) Dibromofluoromethane	7.57	113	210591	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	10.08	98	853591	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	
62) 4-Bromofluorobenzene	12.41	95	290512	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	2624	0.509	ug/l	94
11) Tert butyl alcohol	4.77	59	326	0.470	ug/l #	71
13) Acrolein	3.59	56	66	0.299	ug/l #	13
16) Acetone	3.80	43	9674	4.543	ug/l	100
18) Methyl Acetate	4.31	43	1580	0.295	ug/l #	72
20) Methylene Chloride	4.53	84	1086	0.221	ug/l	85
25) 2-Butanone	6.80	43	949	0.325	ug/l #	50
31) Cyclohexane	7.65	56	10844	1.254	ug/l #	17
36) 1,1-Dichloropropene	7.65	75	36808	5.533	ug/l #	51
38) Carbon Tetrachloride	7.65	117	44230	7.366	ug/l #	15
51) 4-Methyl-2-Pentanone	9.93	43	8572	1.573	ug/l #	37
60) Dibromochloromethane	10.63	129	536	Below Cal	#	11
64) Tetrachloroethene	10.63	164	1131	0.289	ug/l #	75
71) Bromoform	12.39	173	415	0.838	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	159491	34.231	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	159491	103.963	ug/l #	8
90) Hexachloroethane	13.90	117	595	0.257	ug/l #	11

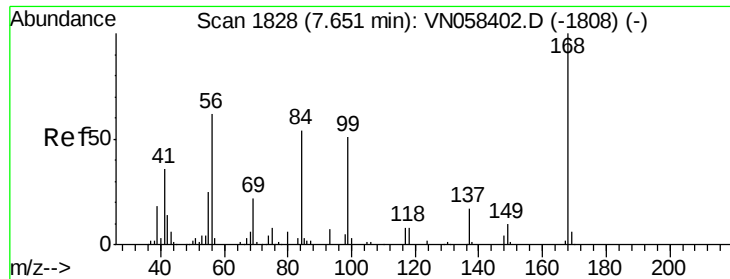
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

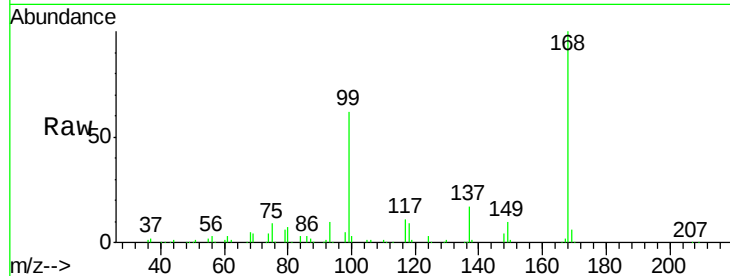
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 427490

Ion Ratio Lower Upper

168 100

99 61.7 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

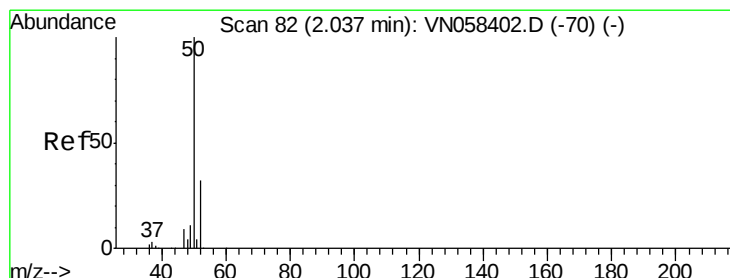
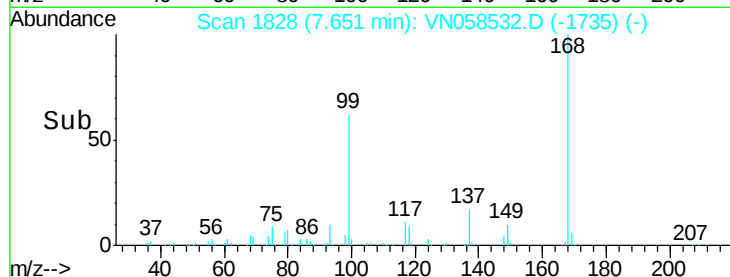
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.509 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058532.D

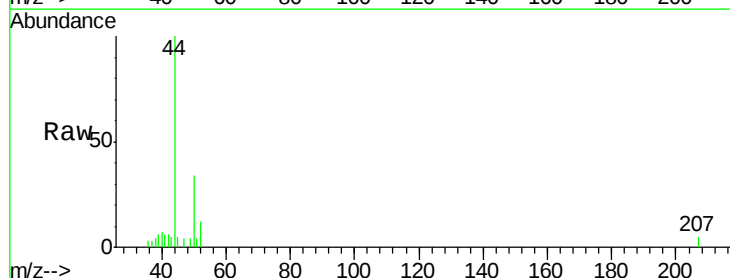
Acq: 4 Oct 2019 12:09

Tgt Ion: 50 Resp: 2624

Ion Ratio Lower Upper

50 100

52 35.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

2000

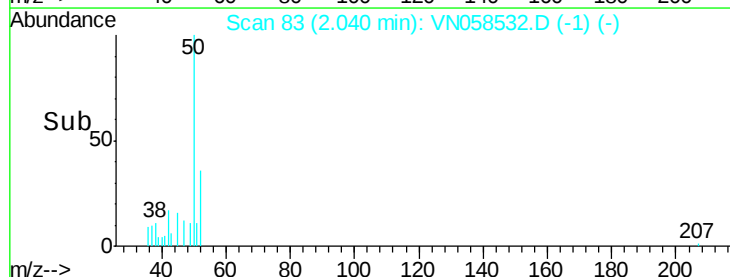
1500

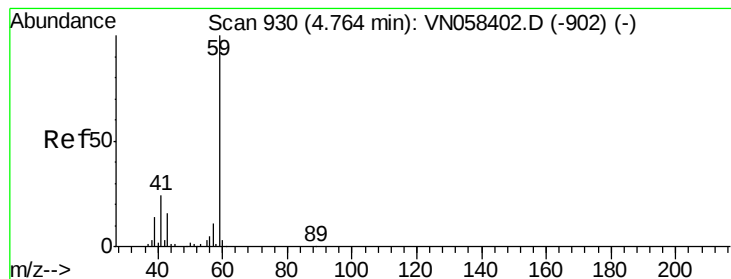
1000

500

0

Time-->



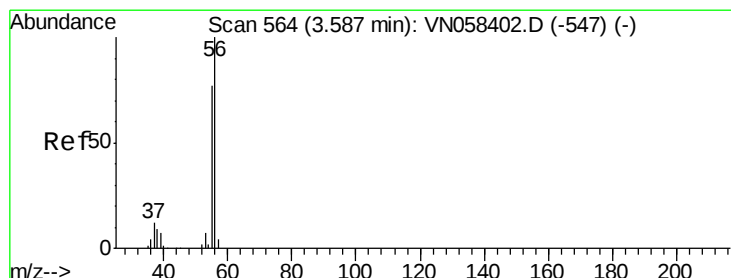
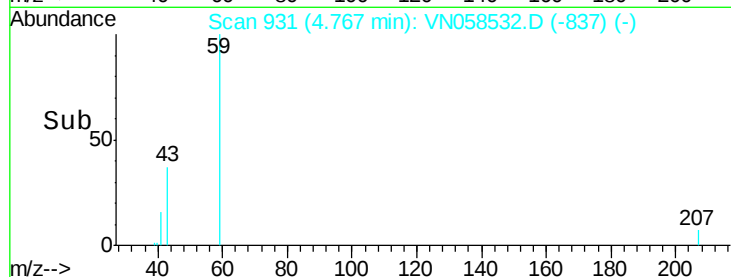
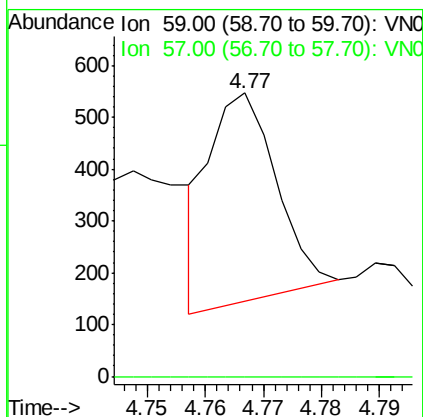
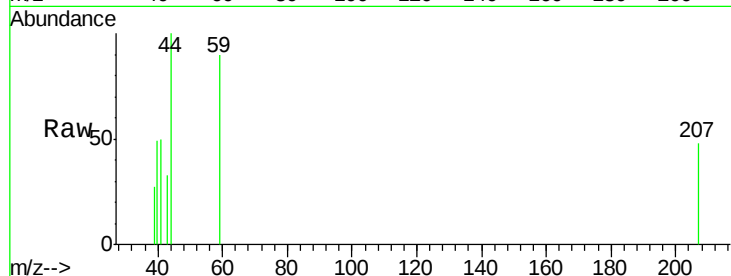


#11

Tert butyl alcohol
 Concen: 0.470 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. 0.00 min
 Lab File: VN058532.D
 Acq: 4 Oct 2019 12:09

Instrument :
 MSVOA_N
 ClientSampled :

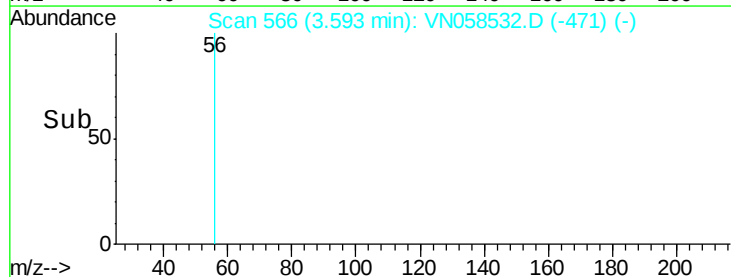
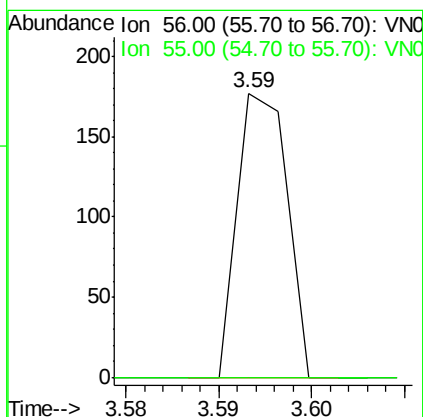
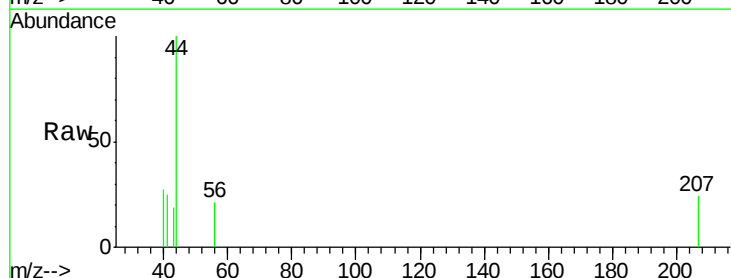
Tot Ion: 59 Resp: 326
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

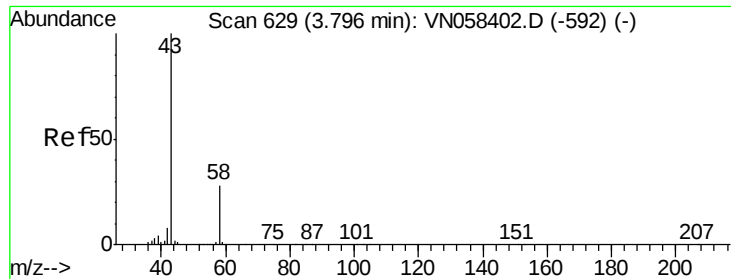


#13

Acrolein
 Concen: 0.299 ug/l
 RT: 3.59 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VN058532.D
 Acq: 4 Oct 2019 12:09

Tgt Ion: 56 Resp: 66
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.3 87.5#

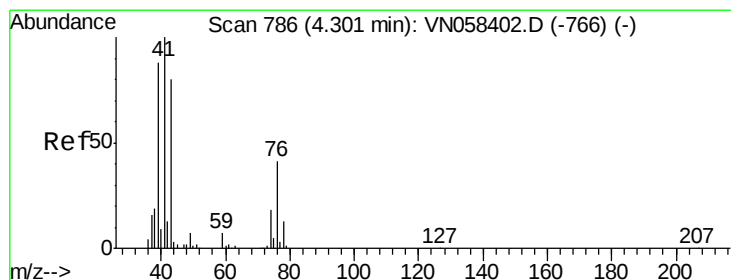
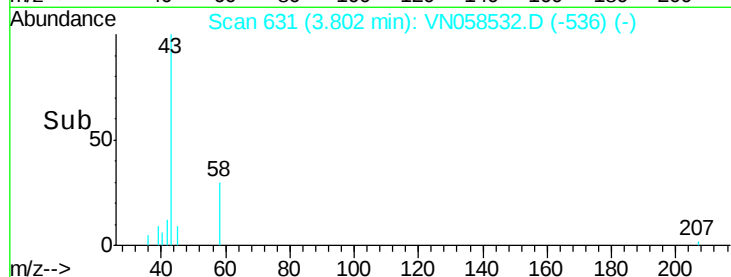
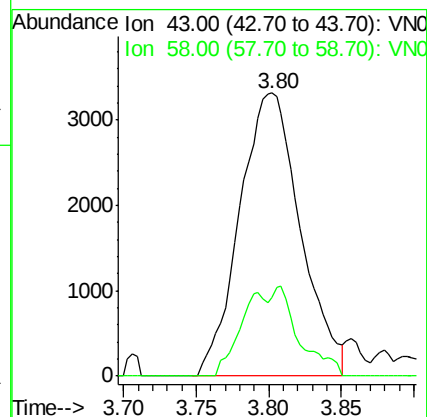
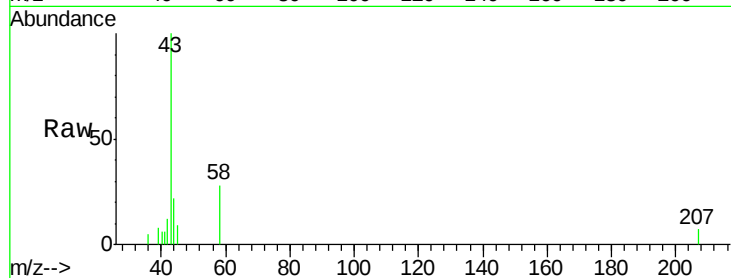




#16
Acetone
Concen: 4.543 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

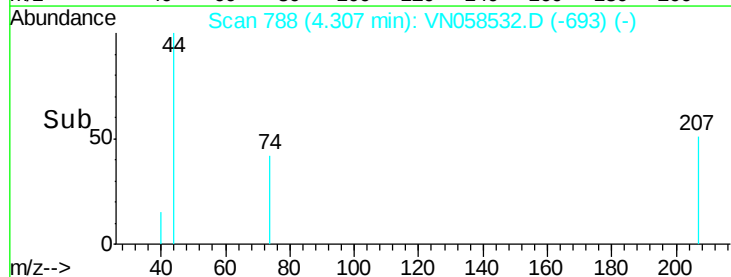
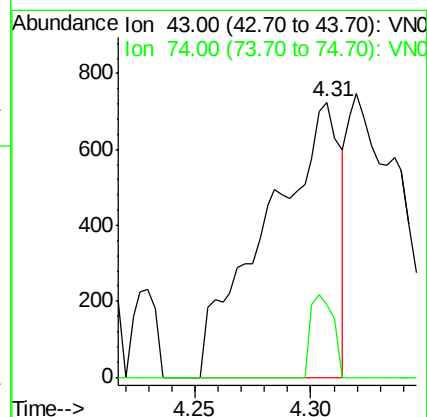
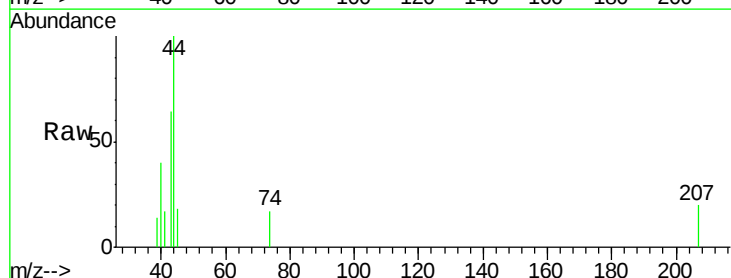
Instrument :
MSVOA_N
ClientSampled :

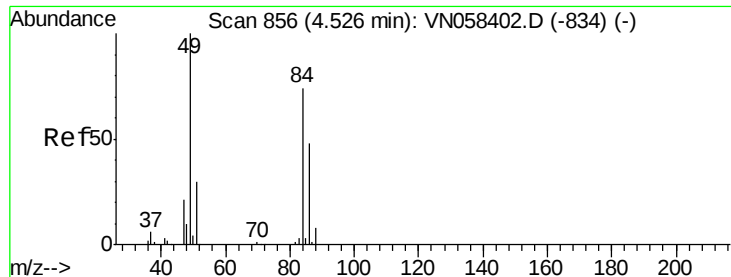
Tot Ion: 43 Resp: 9674
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#18
Methyl Acetate
Concen: 0.295 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

Tgt Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
74 9.2 18.0 27.0#

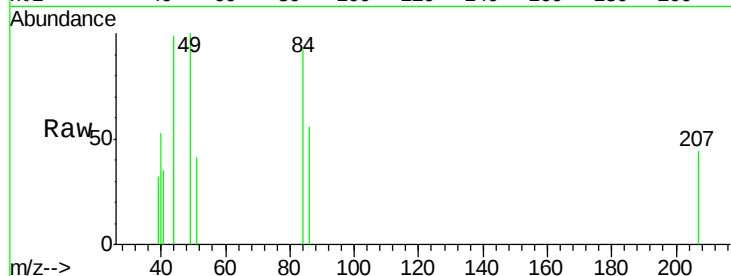




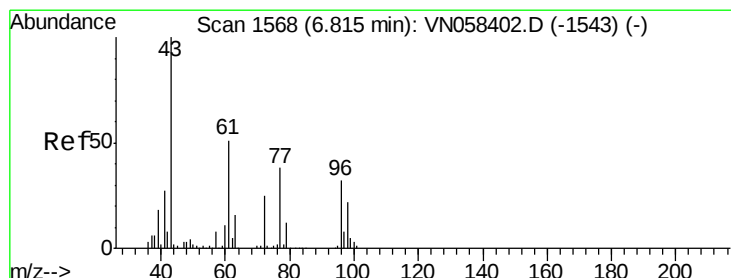
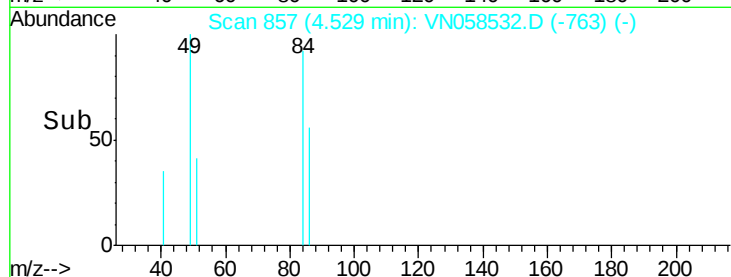
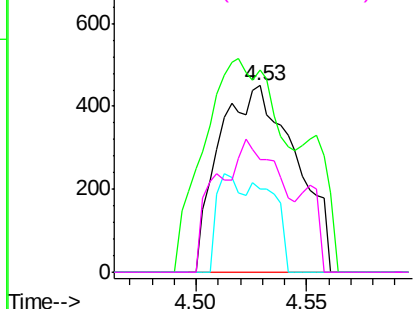
#20
Methvlene Chloride
Concen: 0.221 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 1086
Ion Ratio Lower Upper
84 100
49 108.2 107.9 161.9
51 44.7 32.8 49.2
86 60.4 51.5 77.3

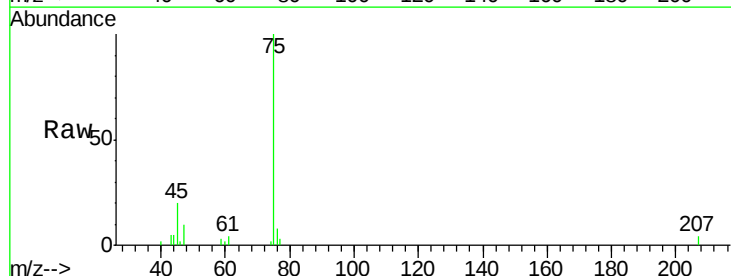


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

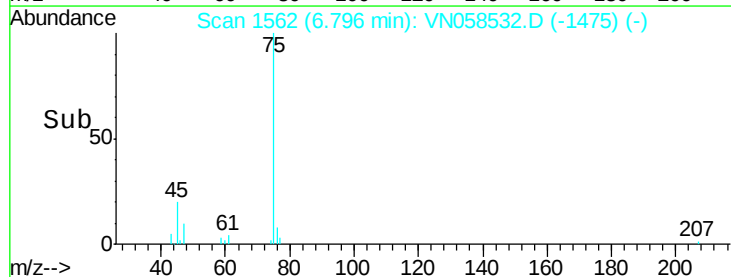
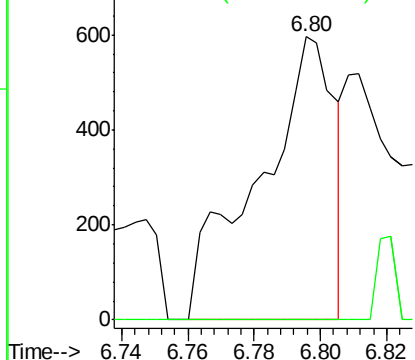


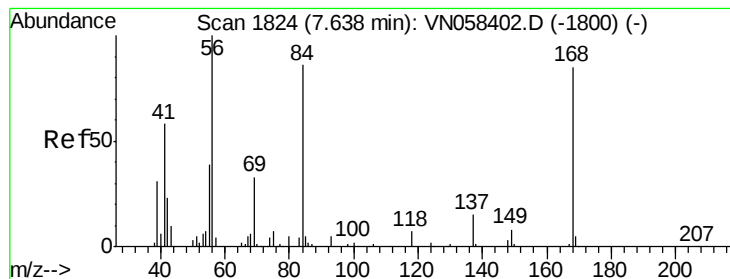
#25
2-Butanone
Concen: 0.325 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.02 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

Tgt Ion: 43 Resp: 949
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#31

Cyclohexane

Concen: 1.254 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

Instrument :
MSVOA_N
ClientSampled :

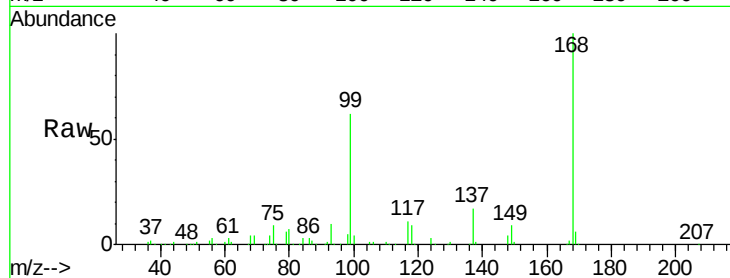
Tot Ion: 56 Resp: 10844

Ion Ratio Lower Upper

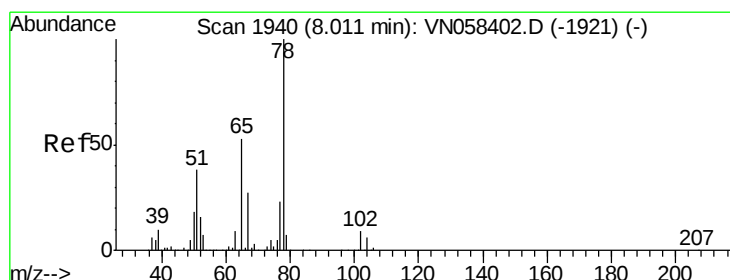
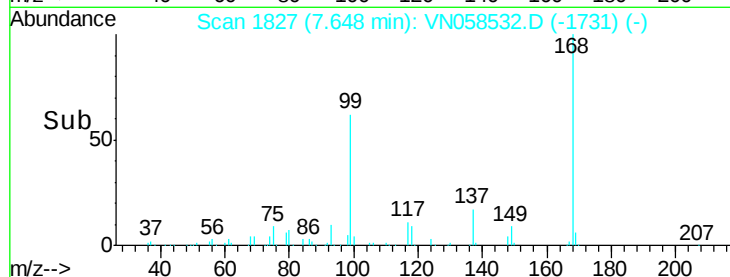
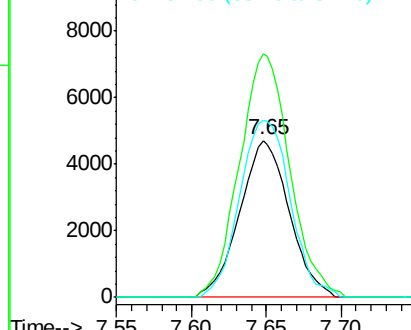
56 100

69 155.2 26.2 39.4#

84 112.5 67.6 101.4#



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



#33

1,2-Dichloroethane-d4

Concen: 48.967 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058532.D

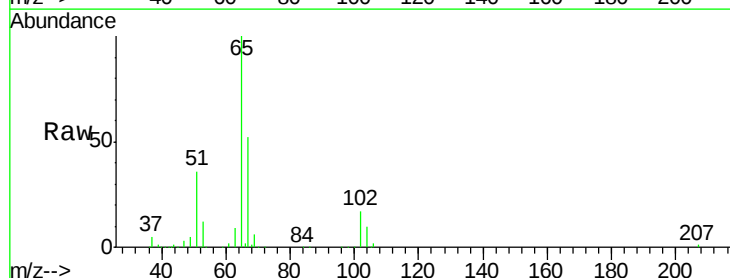
Acq: 4 Oct 2019 12:09

Tgt Ion: 65 Resp: 305900

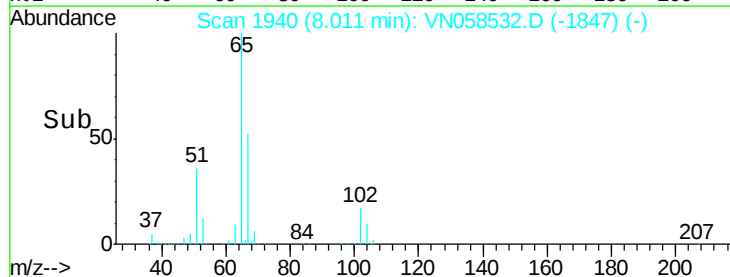
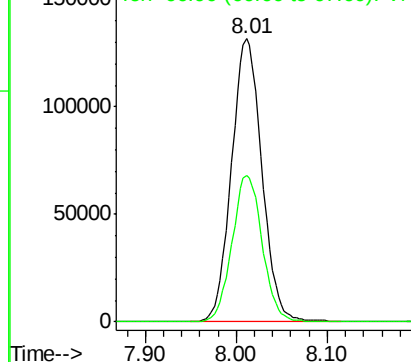
Ion Ratio Lower Upper

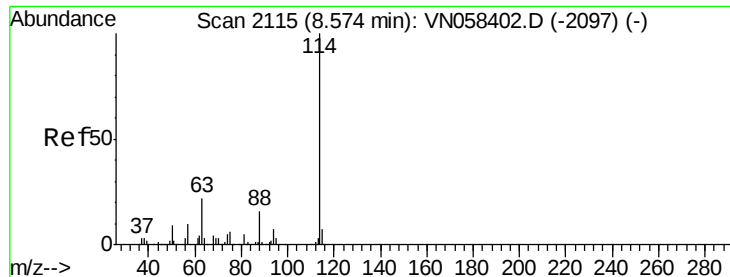
65 100

67 51.4 0.0 102.4



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

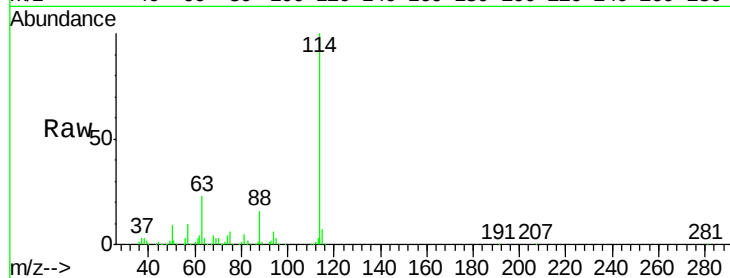




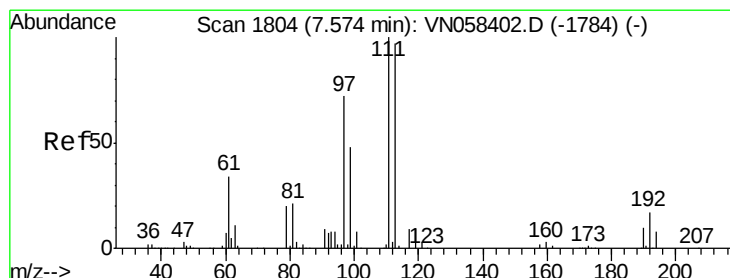
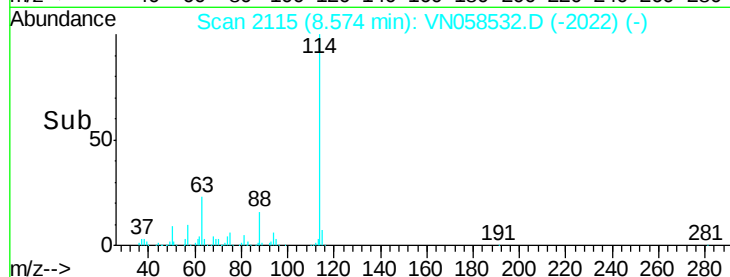
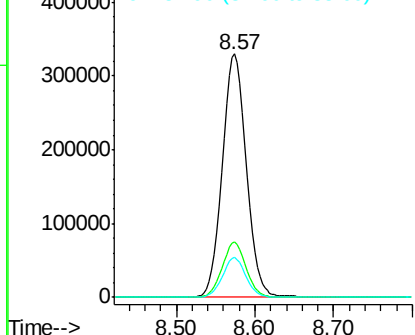
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058532.D
 Acq: 4 Oct 2019 12:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 695708
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 16.4 0.0 32.2

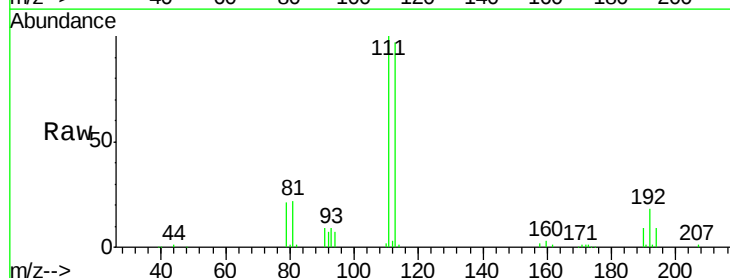


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

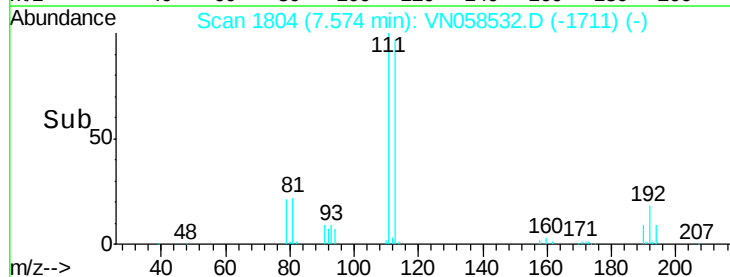
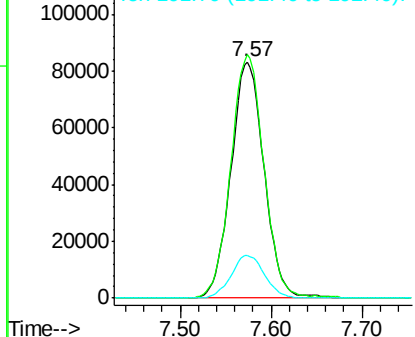


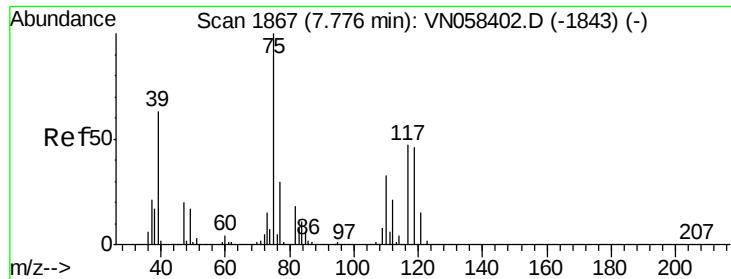
#35
 Dibromofluoromethane
 Concen: 49.389 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058532.D
 Acq: 4 Oct 2019 12:09

Tgt Ion:113 Resp: 210591
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.4 125.2
 192 18.2 14.9 22.3



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: 5.533 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

Instrument :
MSVOA_N
ClientSampleId :

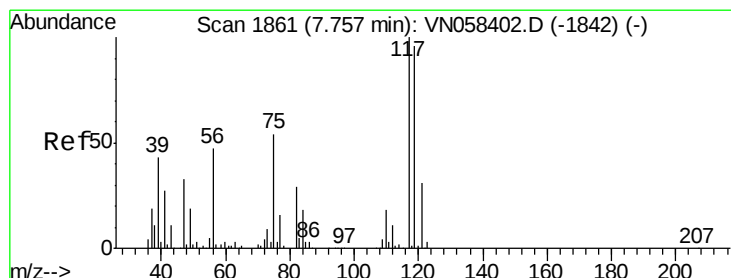
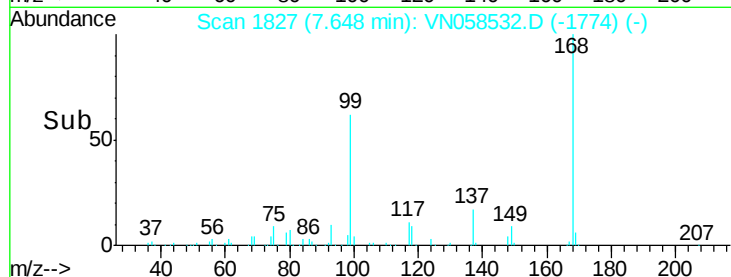
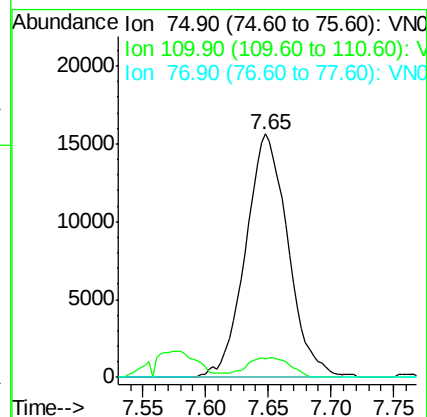
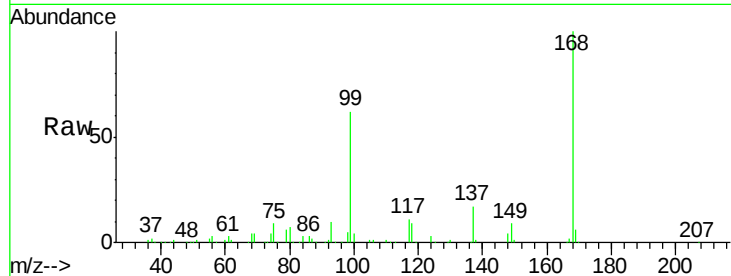
Tot Ion: 75 Resp: 36808

Ion Ratio Lower Upper

75 100

110 8.5 16.4 49.2#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 7.366 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

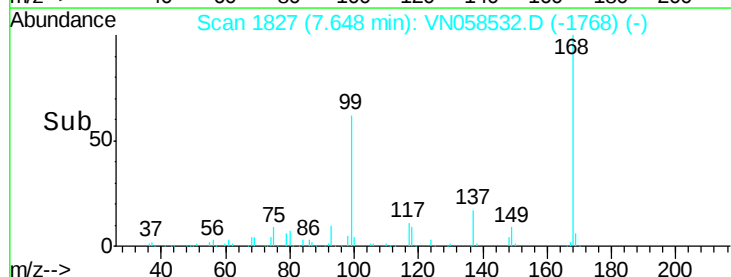
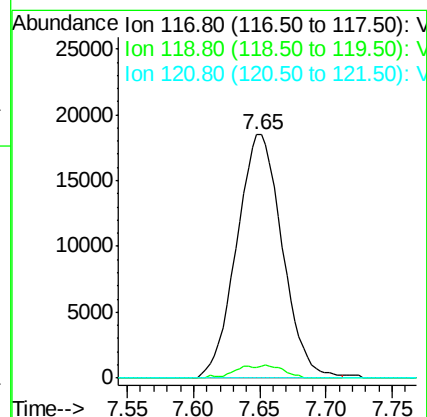
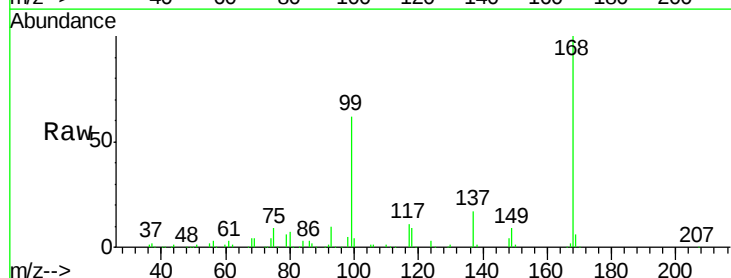
Tgt Ion: 117 Resp: 44230

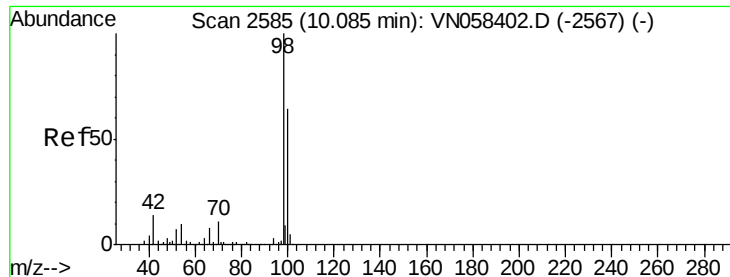
Ion Ratio Lower Upper

117 100

119 4.4 76.6 115.0#

121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 51.102 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

Instrument :

MSVOA_N

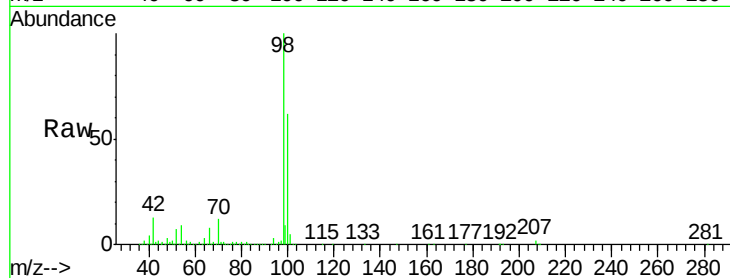
ClientSampled :

Tot Ion: 98 Resp: 853591

Ion Ratio Lower Upper

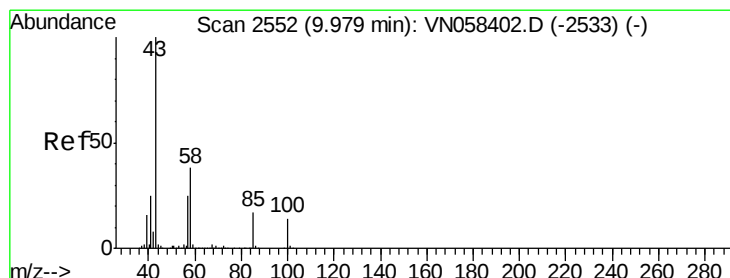
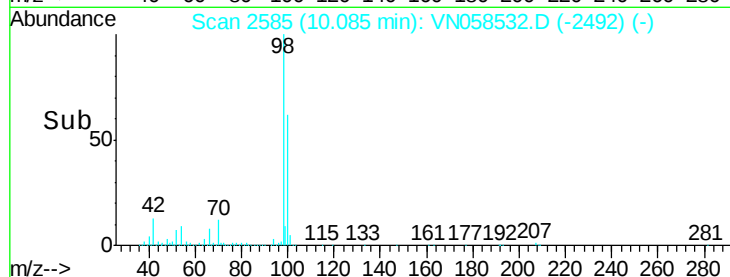
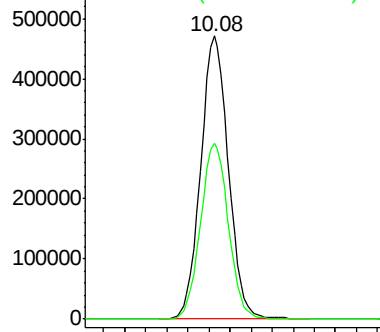
98 100

100 62.6 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.573 ug/l

RT: 9.93 min Scan# 2536

Delta R.T. -0.05 min

Lab File: VN058532.D

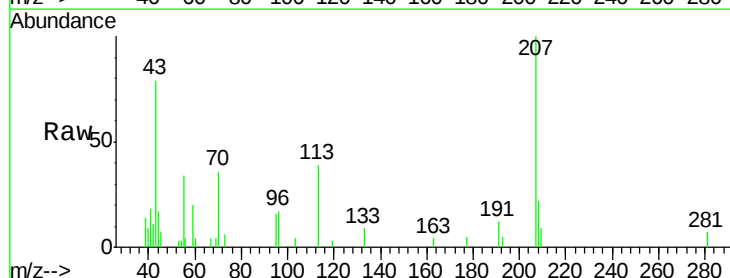
Acq: 4 Oct 2019 12:09

Tgt Ion: 43 Resp: 8572

Ion Ratio Lower Upper

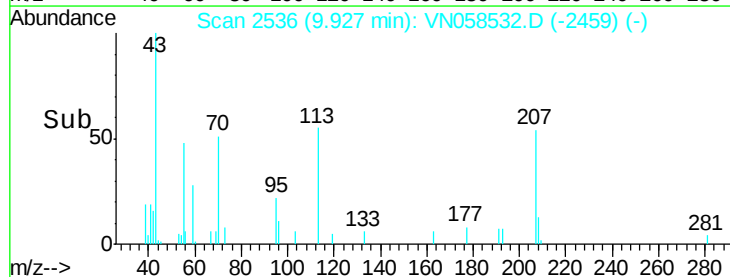
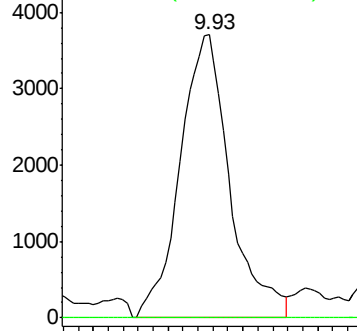
43 100

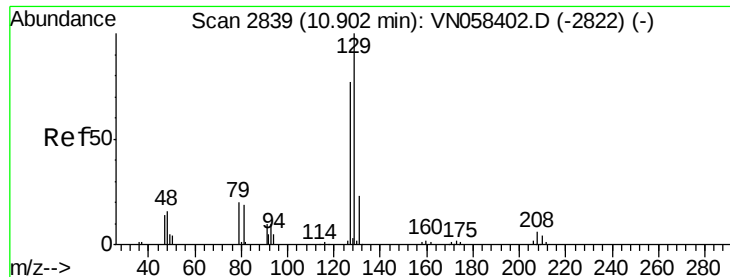
58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

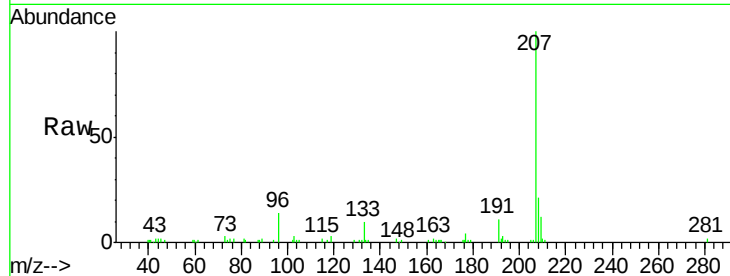




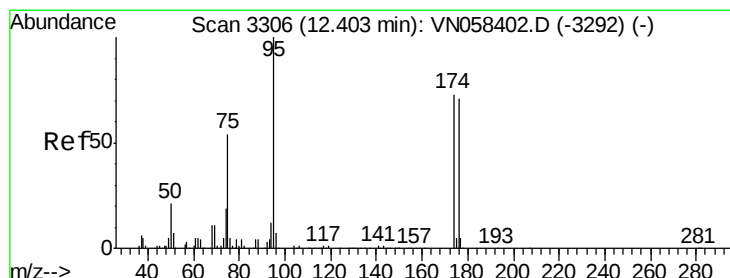
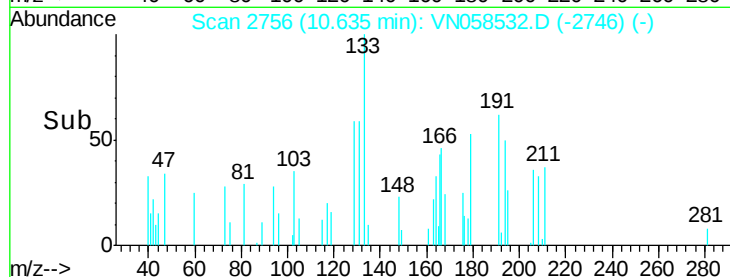
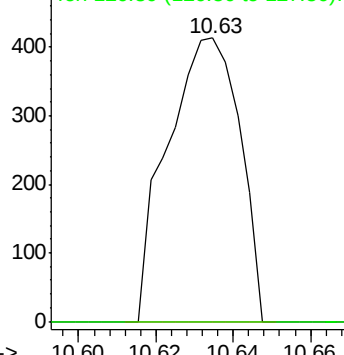
#60
Dibromochloromethane
Concen: Below Cal
RT: 10.63 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:129 Resp: 536
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#

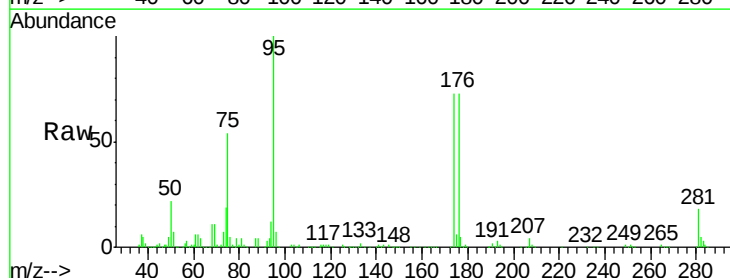


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

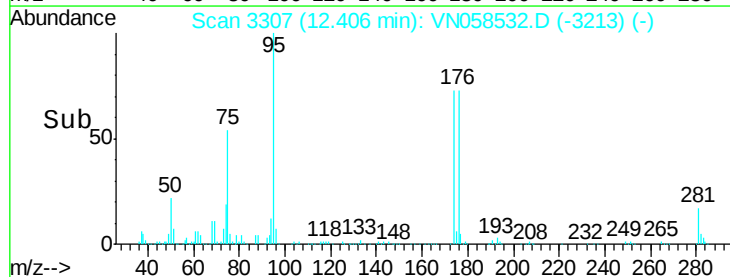
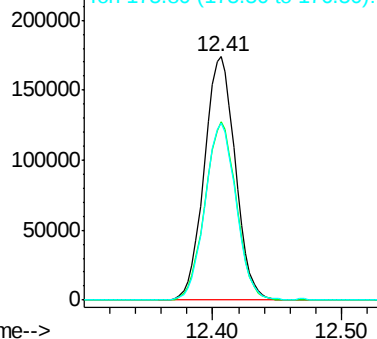


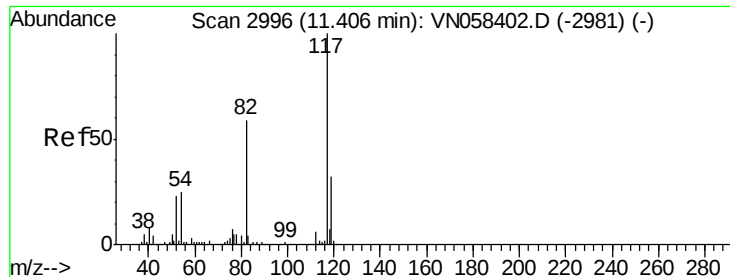
#62
4-Bromofluorobenzene
Concen: 48.100 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

Tgt Ion: 95 Resp: 290512
Ion Ratio Lower Upper
95 100
174 73.9 0.0 150.6
176 73.0 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

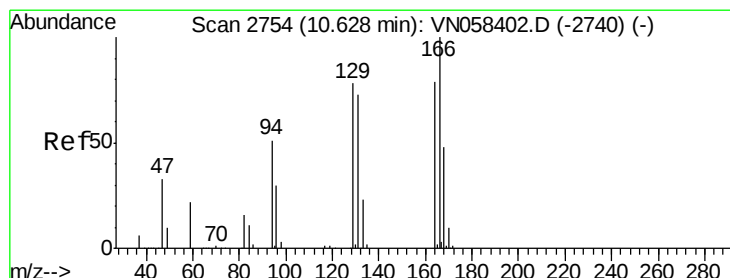
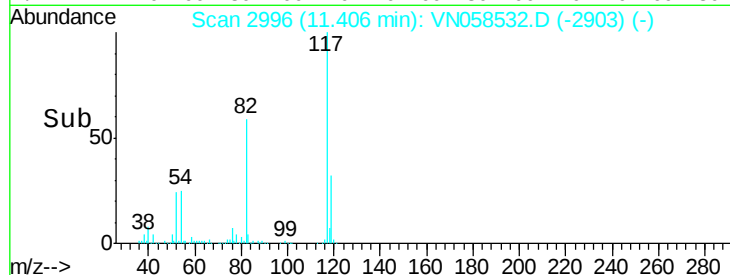
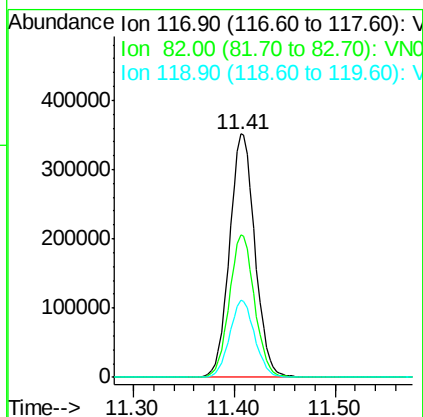
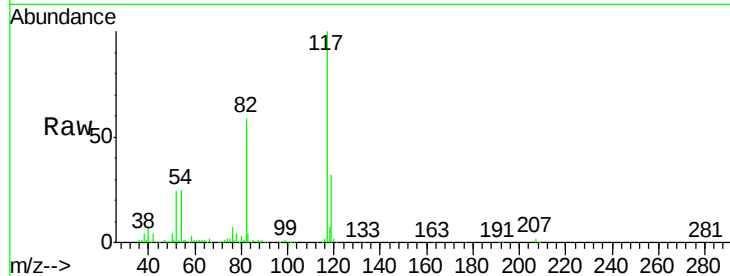




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

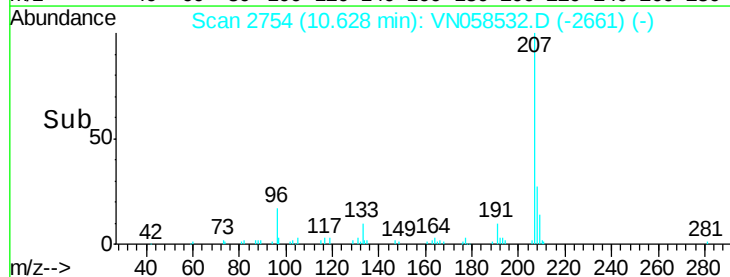
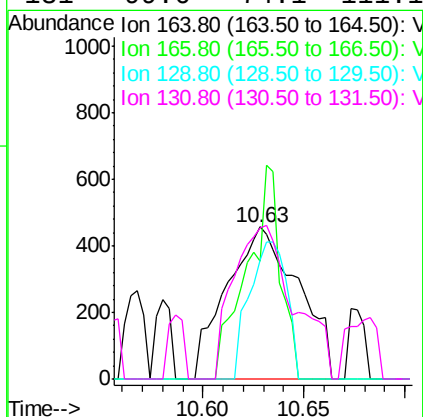
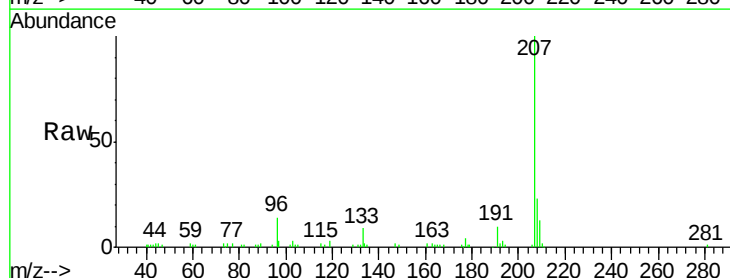
Instrument :
MSVOA_N
ClientSampled :

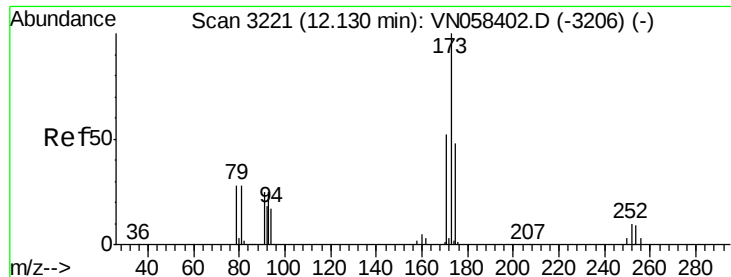
Tot Ion:117 Resp: 615516
Ion Ratio Lower Upper
117 100
82 58.5 47.4 71.0
119 31.6 25.5 38.3



#64
Tetrachloroethene
Concen: 0.289 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058532.D
Acq: 4 Oct 2019 12:09

Tgt Ion:164 Resp: 1131
Ion Ratio Lower Upper
164 100
166 77.7 101.1 151.7#
129 78.6 79.2 118.8#
131 99.6 74.1 111.1





#71

Bromoform

Concen: 0.838 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

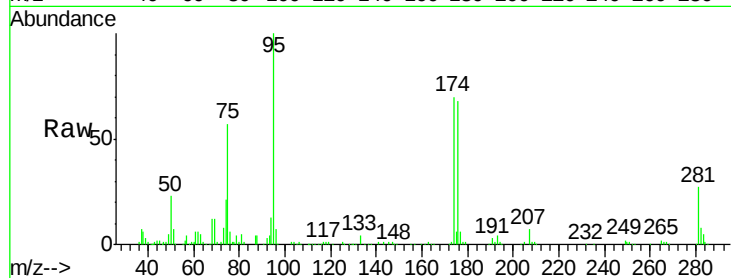
Tot Ion:173 Resp: 415

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

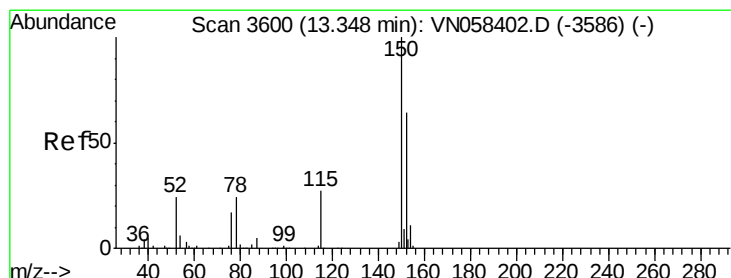
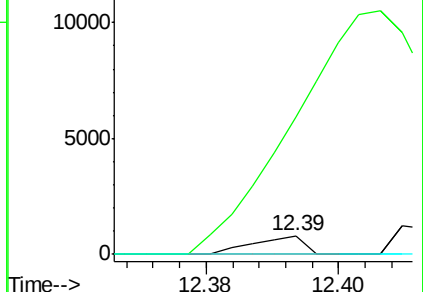
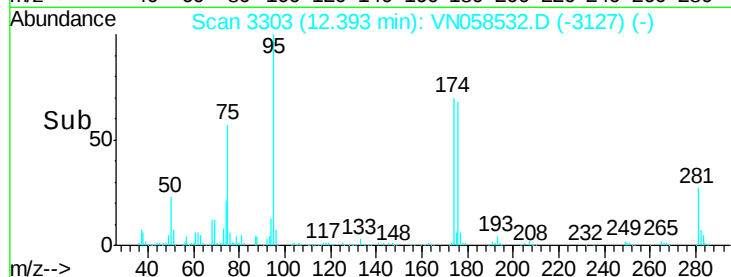
254 0.0 0.1 0.1#



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: VN058532.D

Acq: 4 Oct 2019 12:09

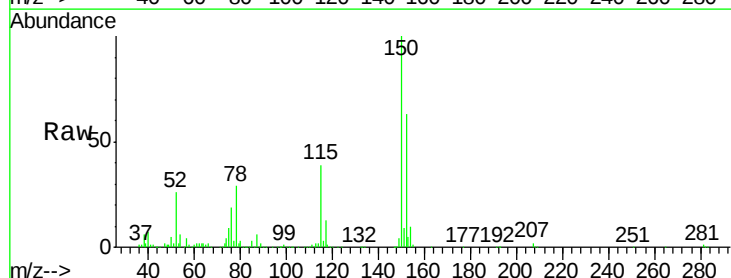
Tgt Ion:152 Resp: 255093

Ion Ratio Lower Upper

152 100

115 61.1 30.0 90.0

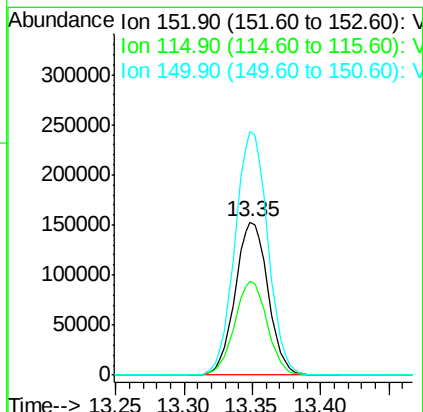
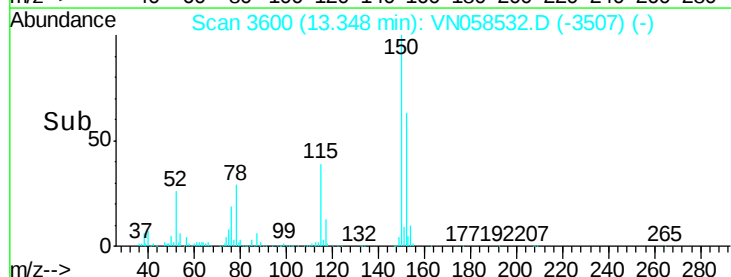
150 159.2 0.0 348.2

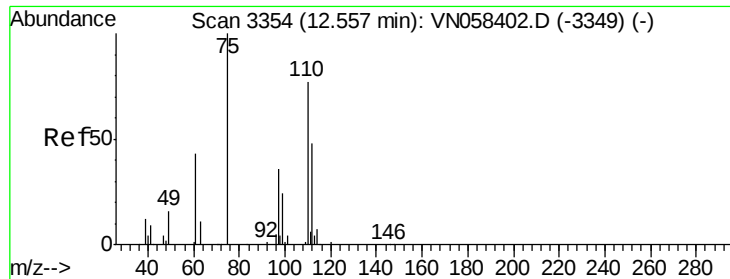


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

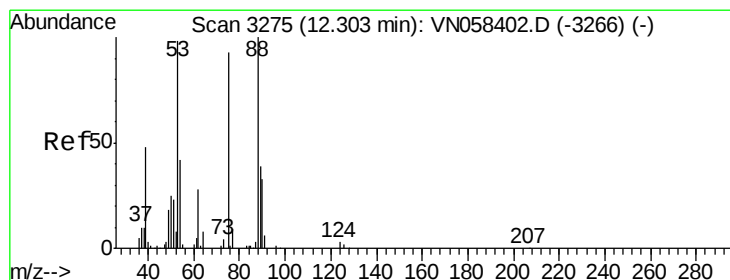
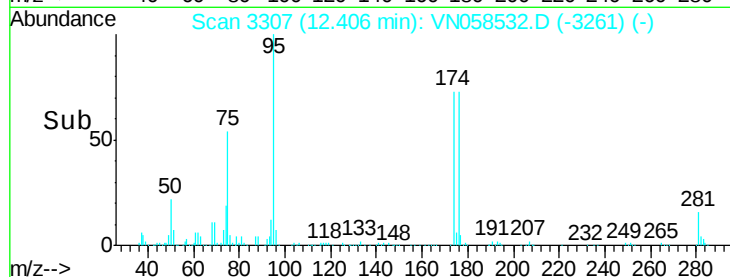
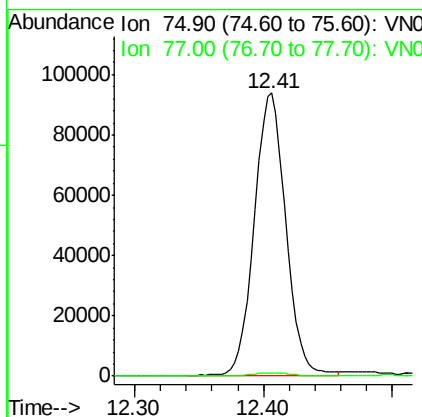
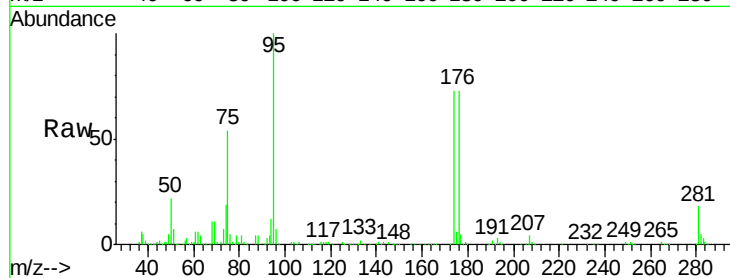




#76
 1,2,3-Trichloropropane
 Concen: 34.231 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058532.D
 Acq: 4 Oct 2019 12:09

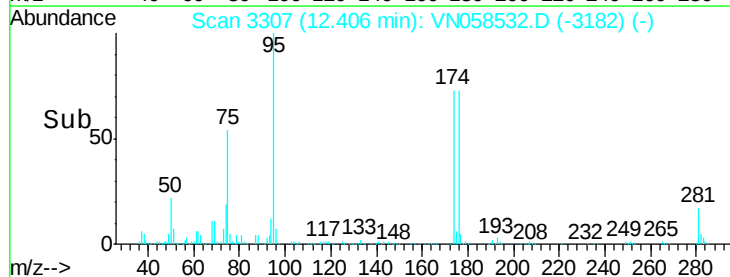
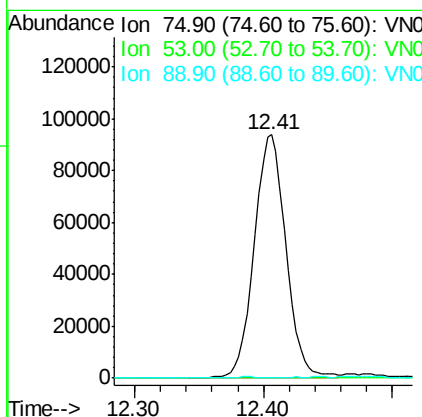
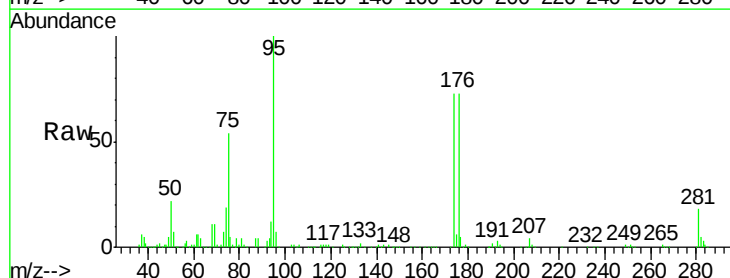
Instrument :
 MSVOA_N
 ClientSampled :

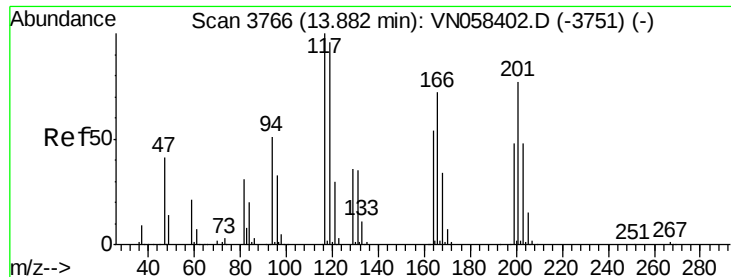
Tot Ion: 75 Resp: 159491
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 103.963 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058532.D
 Acq: 4 Oct 2019 12:09

Tgt Ion: 75 Resp: 159491
 Ion Ratio Lower Upper
 75 100
 53 0.1 85.4 128.0#
 89 0.2 35.0 52.4#





#90

Hexachloroethane

Concen: 0.257 ug/l

RT: 13.90 min Scan# 3770

Delta R.T. 0.01 min

Lab File: VN058532.D

Acq: 4 Oct 2019 12:09

Instrument :

MSVOA_N

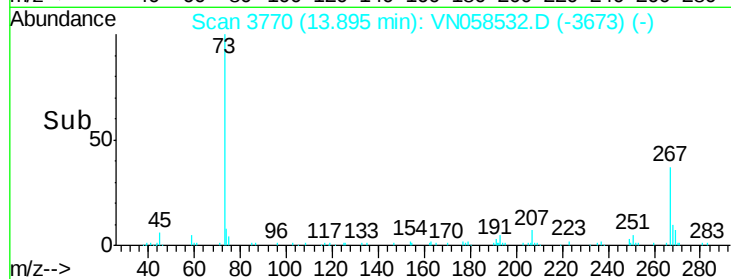
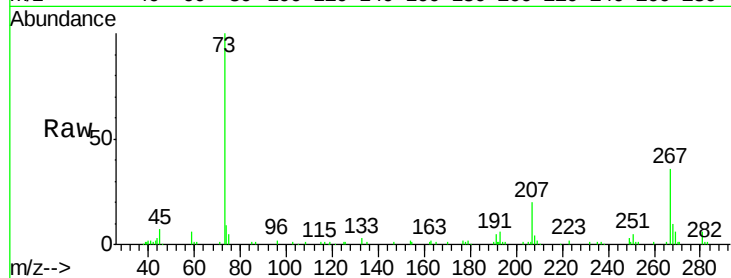
ClientSampleId :

Tot Ion:117 Resp: 595

Ion Ratio Lower Upper

117 100

201 0.0 38.6 116.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

