

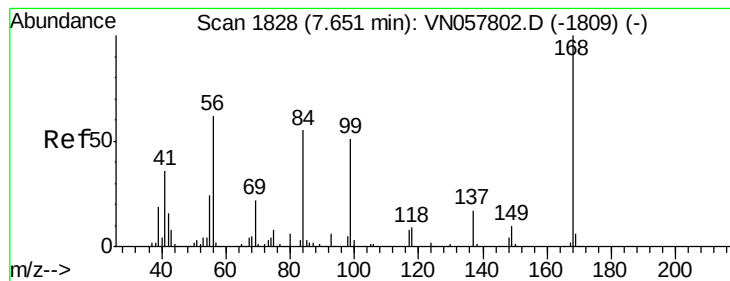
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057898.D
 Acq On : 11 Sep 2019 5:10
 Operator : JC/SP
 Sample : K4820-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-13.0-18.0-091019

Quant Time: Sep 11 05:38:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	295846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	502225	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	448852	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231819	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	321660	53.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.36%	
35) Dibromofluoromethane	7.58	113	220903	47.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.32%	
50) Toluene-d8	10.09	98	896952	49.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.41	95	291536	42.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.02%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1484	0.356	ug/l	99
5) Bromomethane	2.55	94	809	Below Cal	#	24
11) Tert butyl alcohol	4.76	59	406	0.560	ug/l #	72
16) Acetone	3.80	43	24401	12.422	ug/l	100
17) Carbon Disulfide	4.02	76	492	0.259	ug/l #	75
18) Methyl Acetate	4.31	43	1639	0.313	ug/l #	78
20) Methylene Chloride	4.53	84	642	Below Cal	#	57
25) 2-Butanone	6.83	43	1722	0.606	ug/l	100
28) Bromochloromethane	7.35	49	6667	1.689	ug/l #	19
30) Chloroform	7.36	83	69487	8.411	ug/l	98
31) Cyclohexane	7.65	56	7556	Below Cal	#	16
36) 1,1-Dichloropropene	7.65	75	25650	4.404	ug/l #	50
38) Carbon Tetrachloride	7.65	117	29459	5.540	ug/l #	16
43) Isopropyl Acetate	8.24	43	15351	1.517	ug/l #	56
47) Bromodichloromethane	9.40	83	9293	1.509	ug/l #	99
51) 4-Methyl-2-Pentanone	9.98	43	10827	1.808	ug/l #	70
52) Toluene	10.15	92	4115	0.373	ug/l	98
60) Dibromochloromethane	10.90	129	1510	0.348	ug/l	91
64) Tetrachloroethene	10.63	164	953	0.288	ug/l	87
76) 1,2,3-Trichloropropane	12.40	75	160587	30.622	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160587	107.760	ug/l #	6
95) Naphthalene	15.14	128	4726	Below Cal		98
96) 1,2,3-Trichlorobenzene	15.32	180	406	1.083	ug/l #	74

(#) = 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: VN057898.D

Acq: 11 Sep 2019 5:10

Instrument :

MSVOA_N

ClientSampleId :

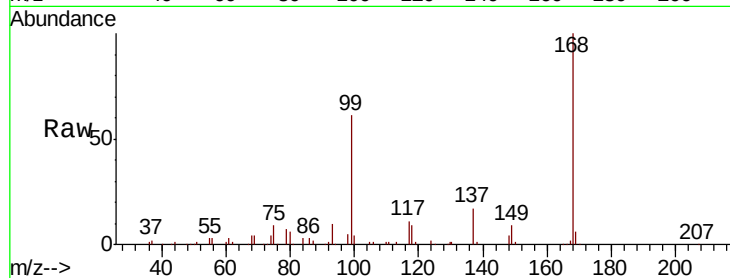
GW200A-B4-13.0-18.0-091019

Tgt Ion: 168 Resp: 295846

Ion Ratio Lower Upper

168 100

99 61.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

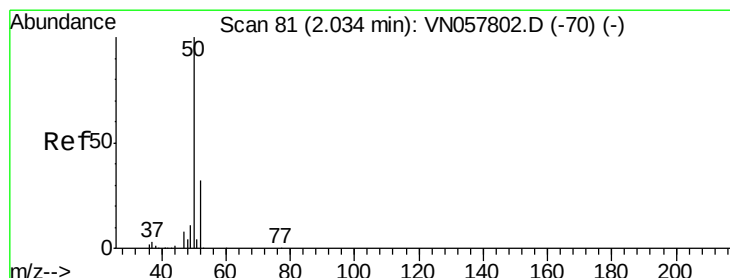
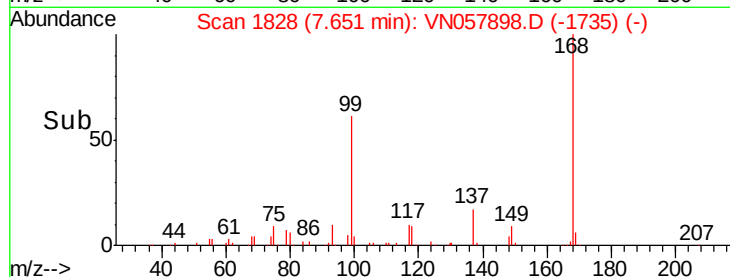
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.356 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057898.D

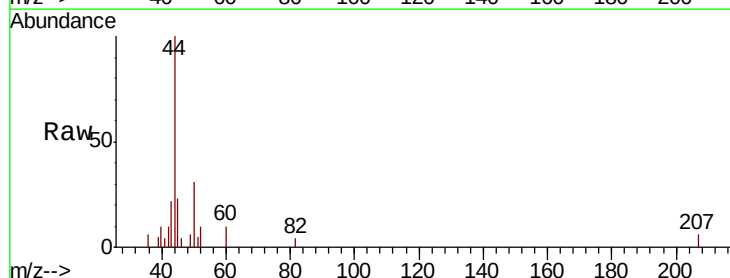
Acq: 11 Sep 2019 5:10

Tgt Ion: 50 Resp: 1484

Ion Ratio Lower Upper

50 100

52 32.3 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

1500

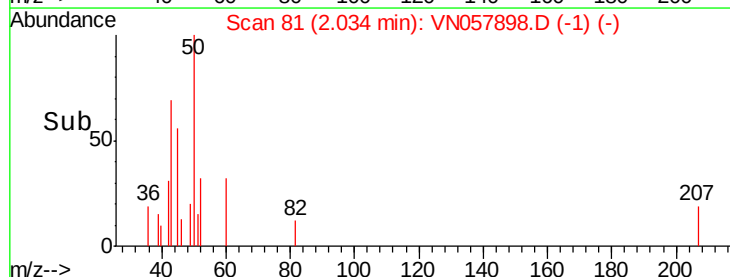
1000

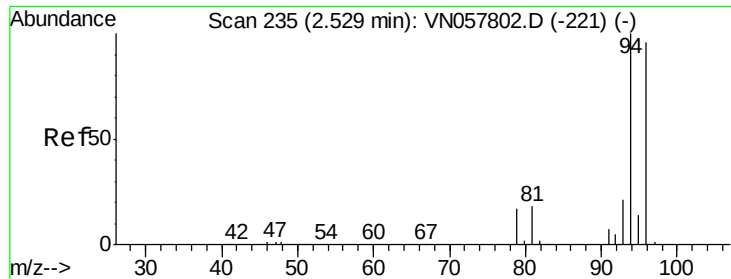
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0

2.00 2.02 2.04 2.06

Time-->

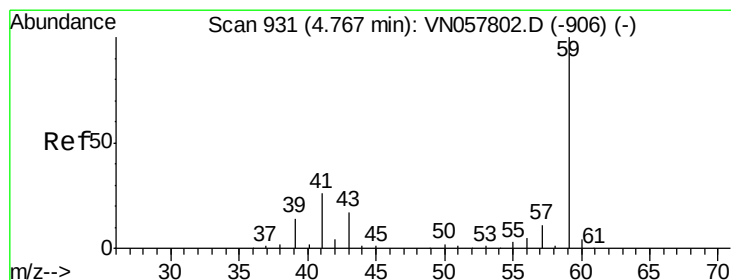
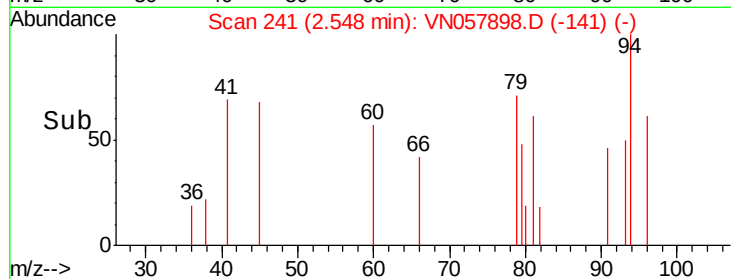
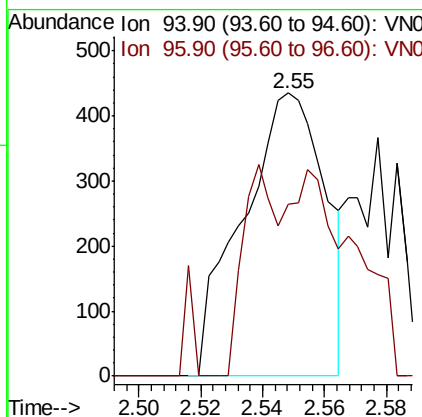
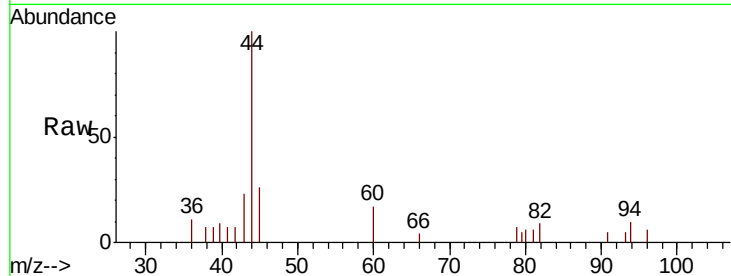




#5
Bromomethane
Concen: Below Cal
RT: 2.55 min Scan# 241
Delta R.T. 0.02 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

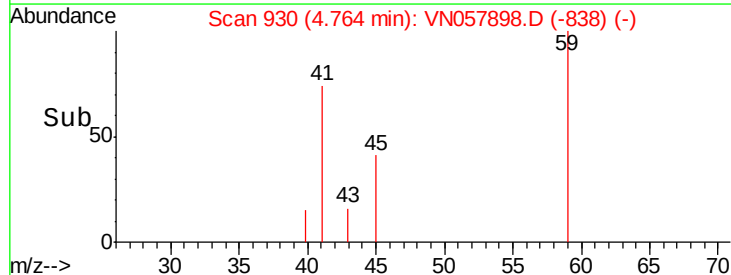
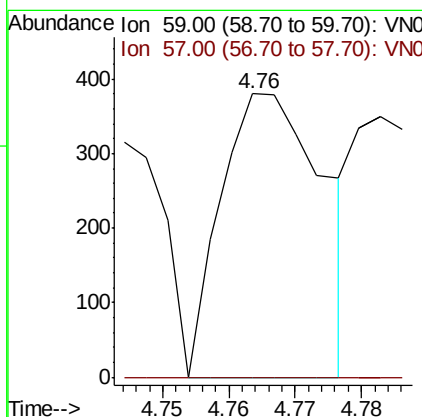
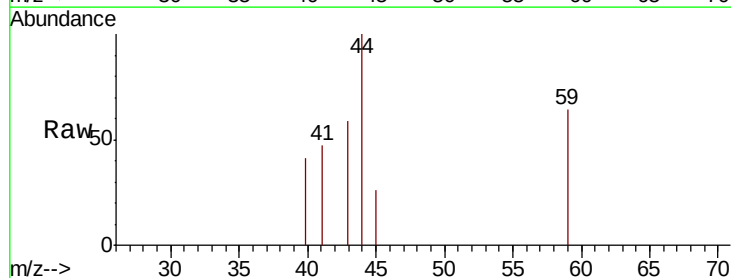
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MSVOA_N
ClientSampleId :
GW200A-B4-13.0-18.0-091019

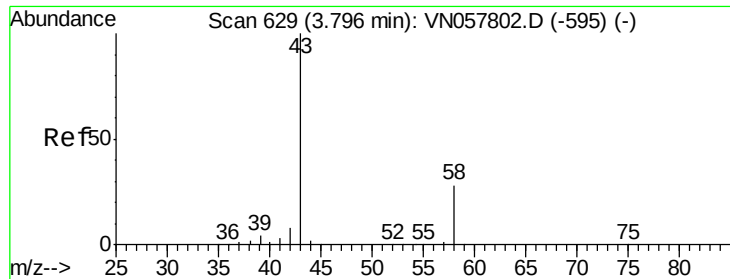
Tgt Ion: 94 Resp: 809
Ion Ratio Lower Upper
94 100
96 21.8 77.0 115.4#



#11
Tert butyl alcohol
Concen: 0.560 ug/l
RT: 4.76 min Scan# 930
Delta R.T. -0.00 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

Tgt Ion: 59 Resp: 406
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 12.422 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057898.D

Acq: 11 Sep 2019 5:10

Instrument :

MSVOA_N

ClientSampleId :

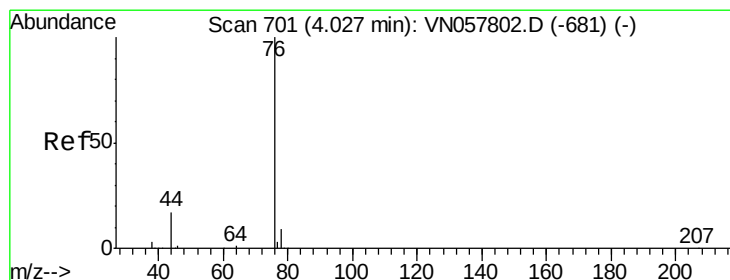
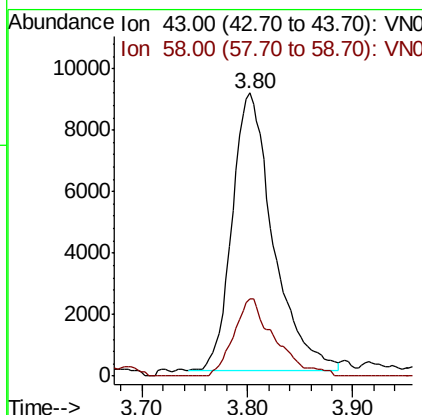
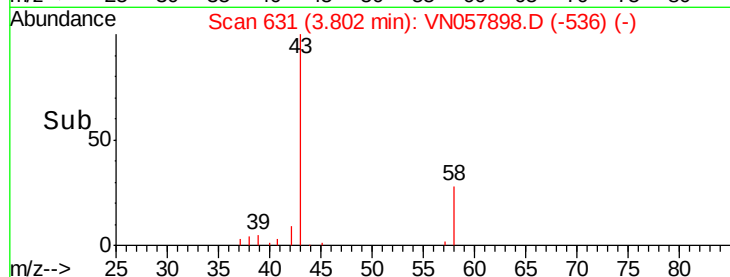
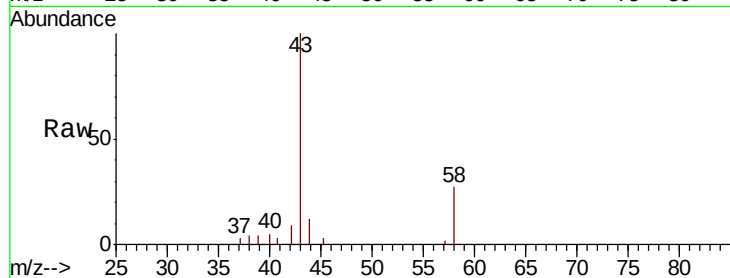
GW200A-B4-13.0-18.0-091019

Tgt Ion: 43 Resp: 24401

Ion Ratio Lower Upper

43 100

58 27.9 22.2 33.2



#17

Carbon Disulfide

Concen: 0.259 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN057898.D

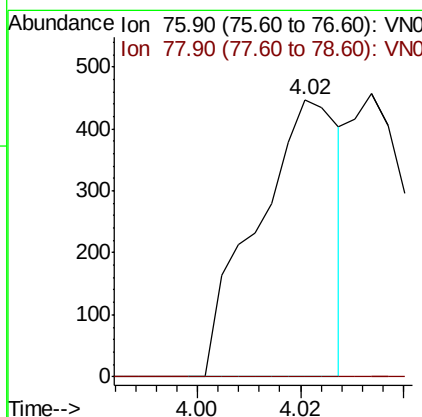
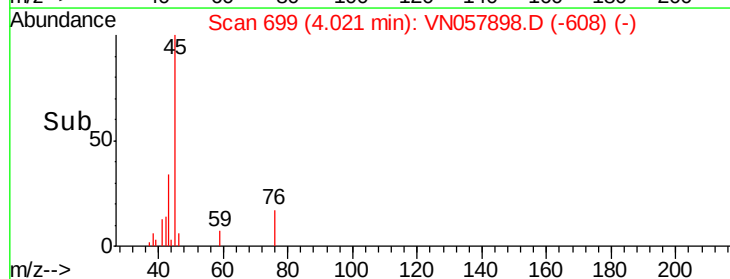
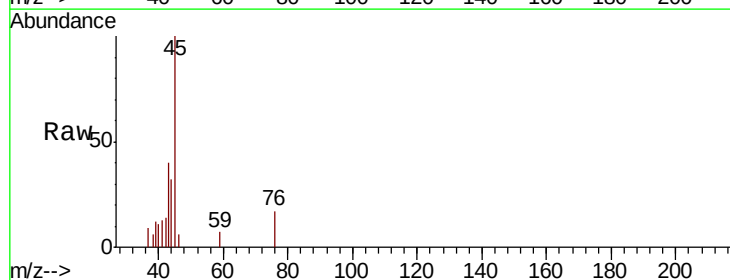
Acq: 11 Sep 2019 5:10

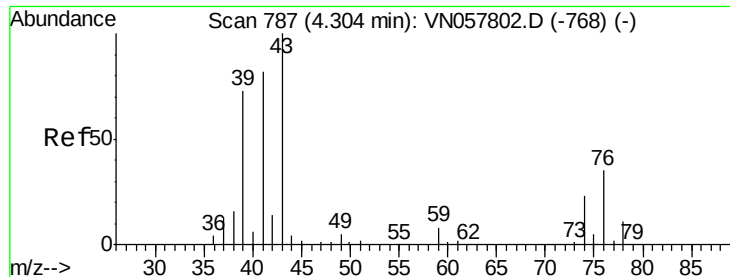
Tgt Ion: 76 Resp: 492

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

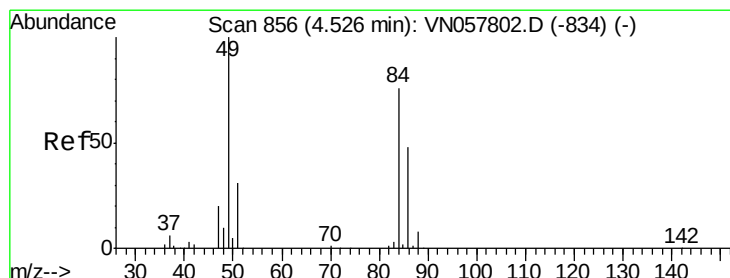
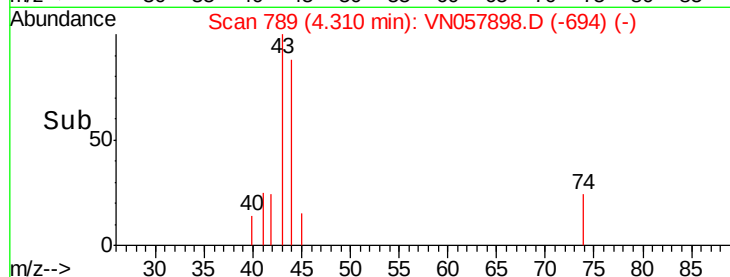
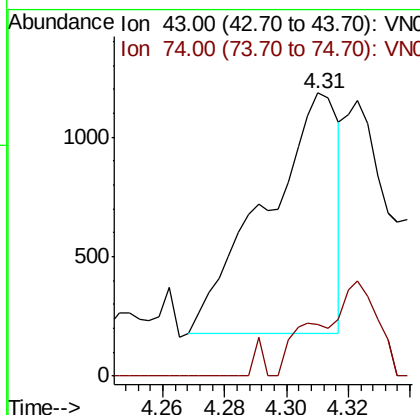
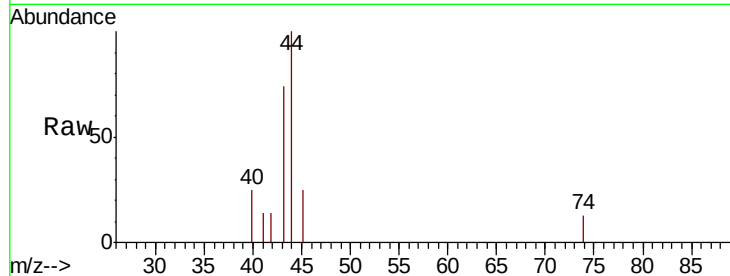




#18
Methyl Acetate
Concen: 0.313 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

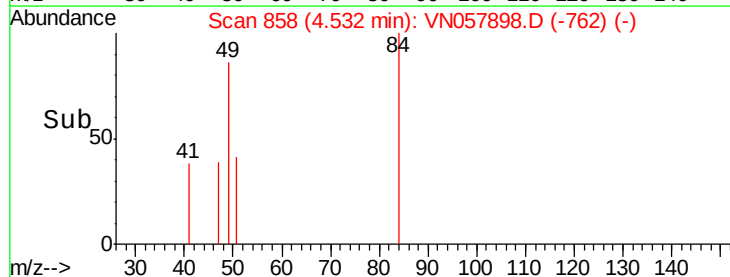
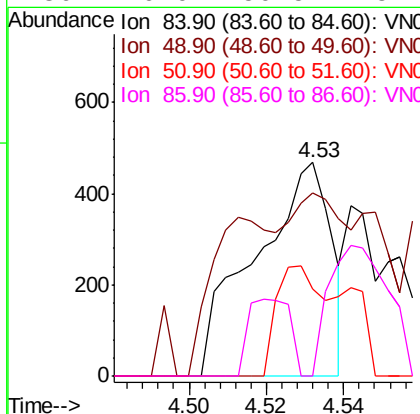
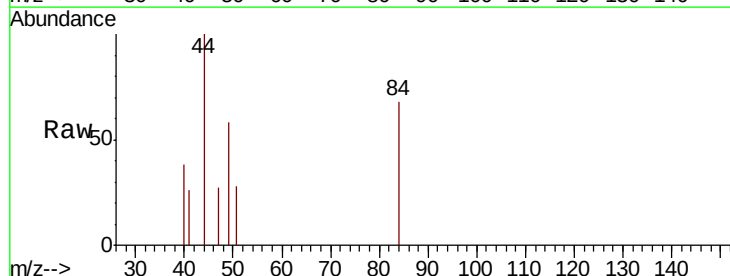
Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-13.0-18.0-091019

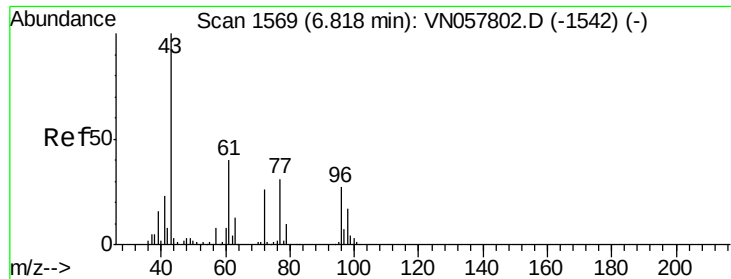
Tgt Ion: 43 Resp: 1639
Ion Ratio Lower Upper
43 100
74 11.7 17.9 26.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

Tgt Ion: 84 Resp: 642
Ion Ratio Lower Upper
84 100
49 85.9 104.8 157.2#
51 40.7 33.0 49.4
86 0.0 50.5 75.7#

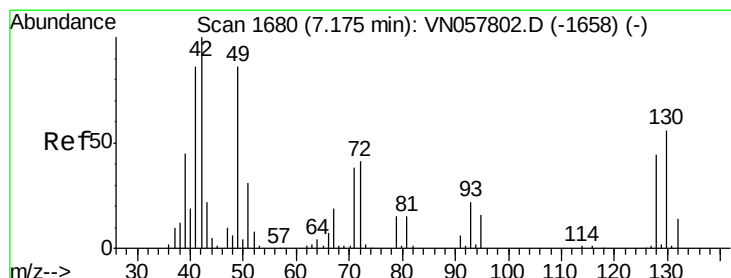
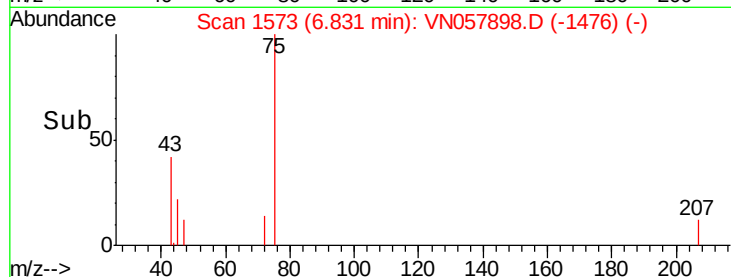
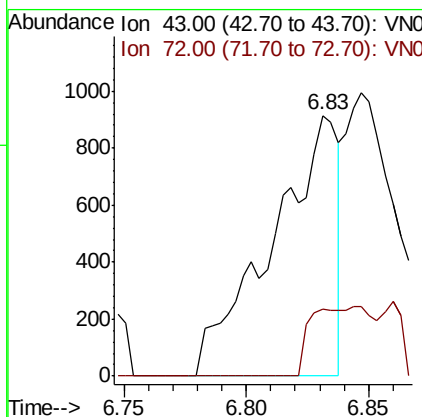
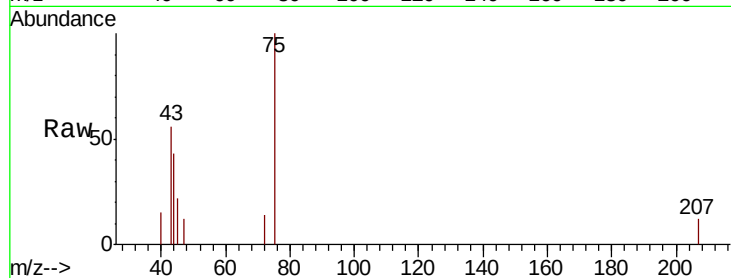




#25
 2-Butanone
 Concen: 0.606 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

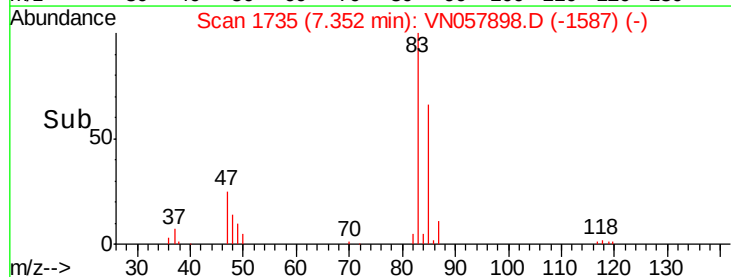
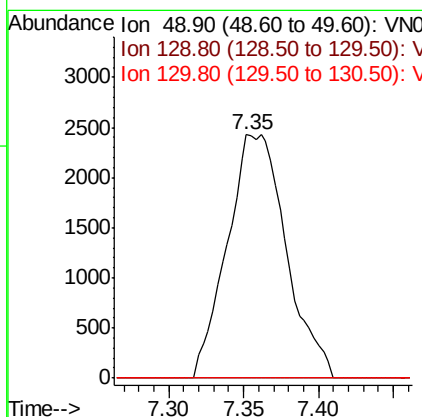
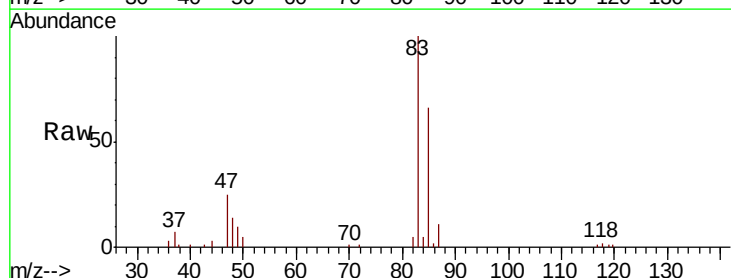
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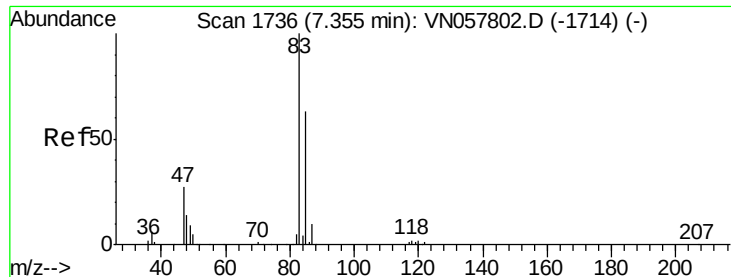
Tgt Ion: 43 Resp: 1722
 Ion Ratio Lower Upper
 43 100
 72 25.8 20.6 30.8



#28
 Bromochloromethane
 Concen: 1.689 ug/l
 RT: 7.35 min Scan# 1735
 Delta R.T. 0.18 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

Tgt Ion: 49 Resp: 6667
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 53.0 79.6#

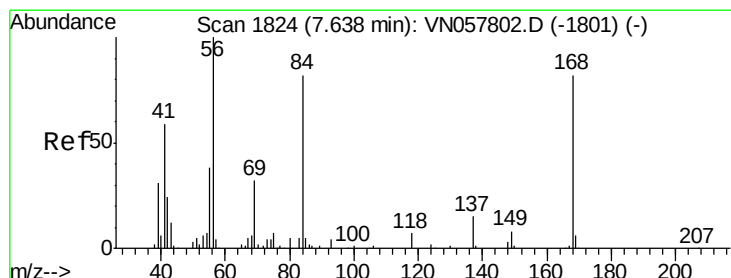
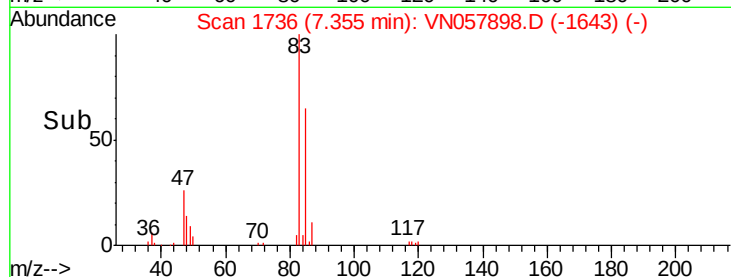
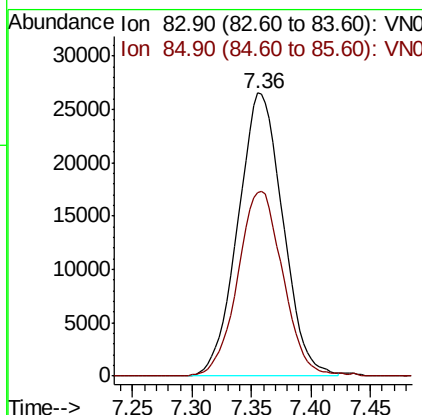
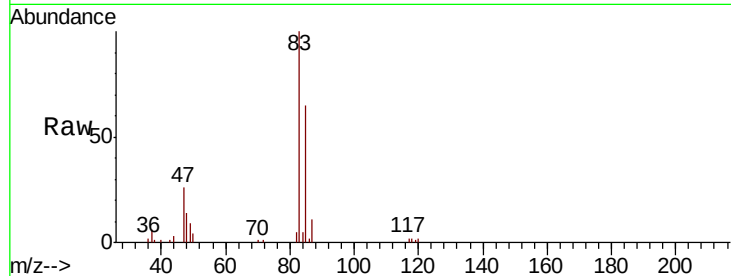




#30
Chloroform
Concen: 8.411 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

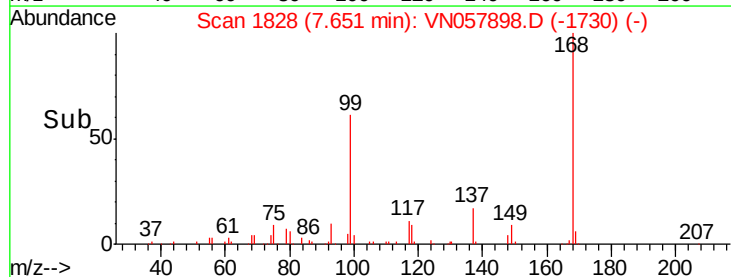
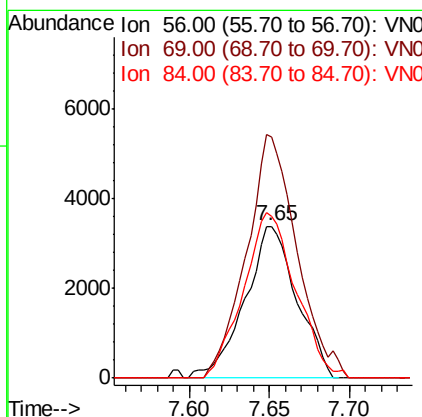
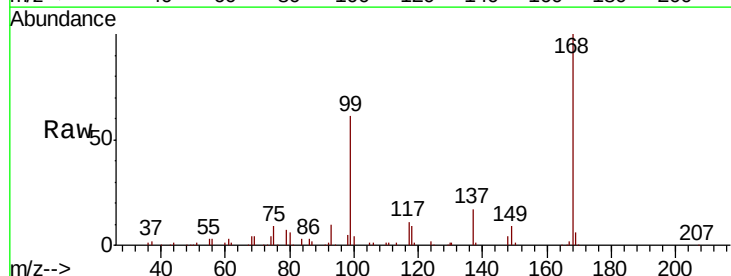
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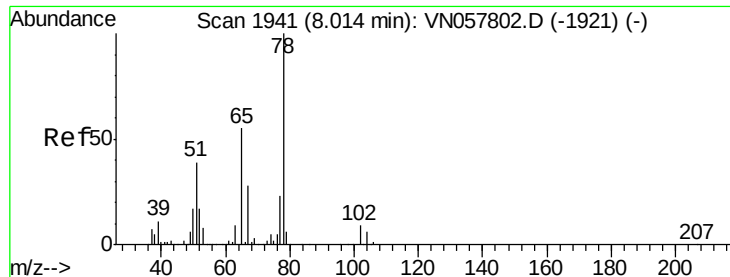
Tgt Ion: 83 Resp: 69487
Ion Ratio Lower Upper
83 100
85 64.9 50.6 75.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

Tgt Ion: 56 Resp: 7556
Ion Ratio Lower Upper
56 100
69 159.1 25.9 38.9#
84 106.9 65.6 98.4#

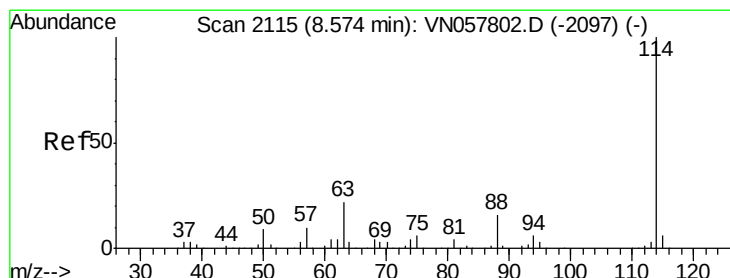
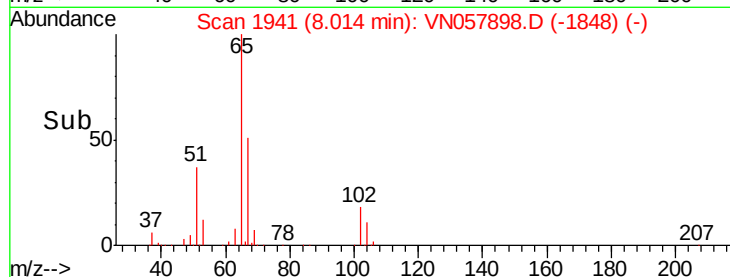
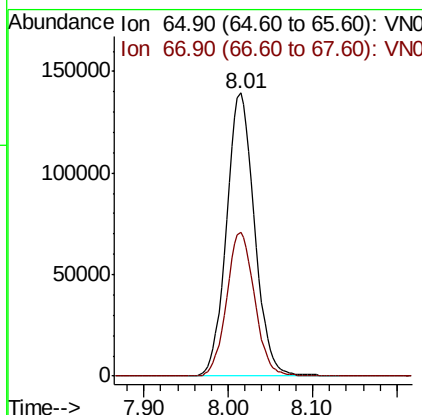
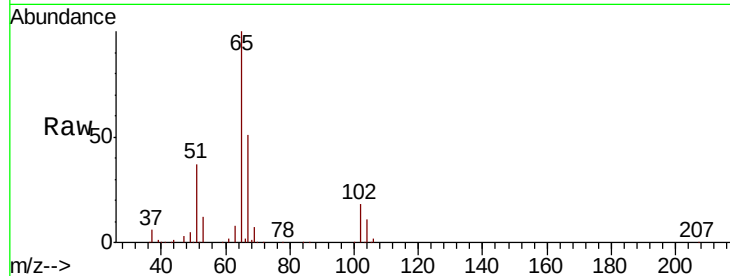




#33
 1,2-Dichloroethane-d4
 Concen: 53.680 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

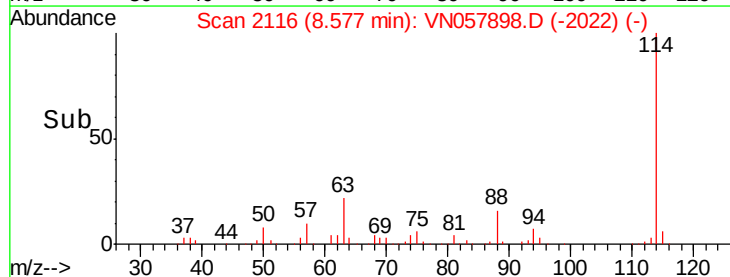
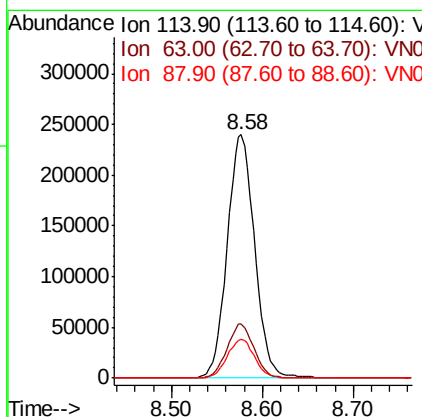
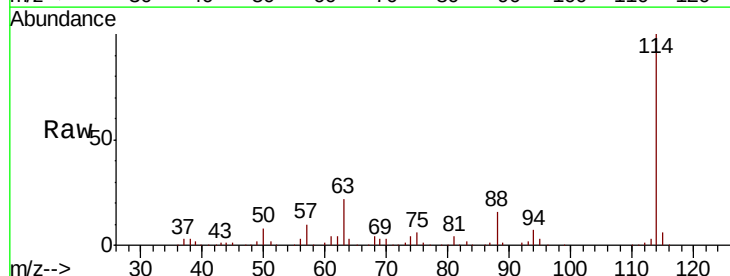
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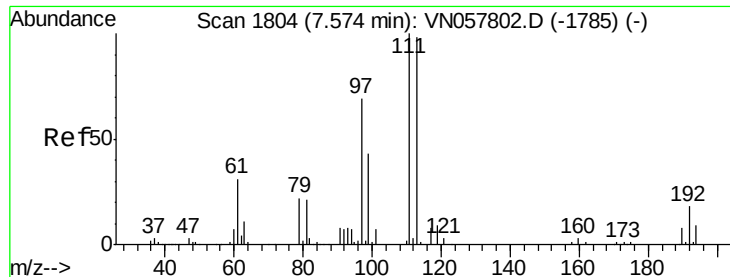
Tgt Ion: 65 Resp: 321660
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

Tgt Ion: 114 Resp: 502225
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 15.9 0.0 31.4

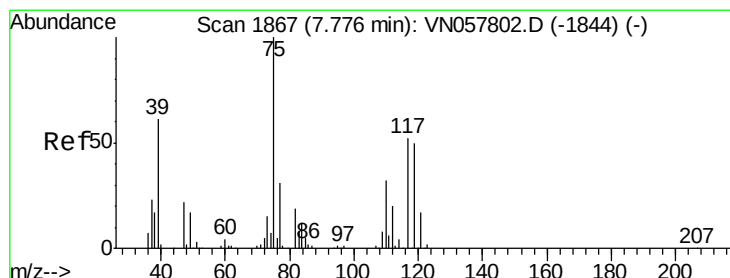
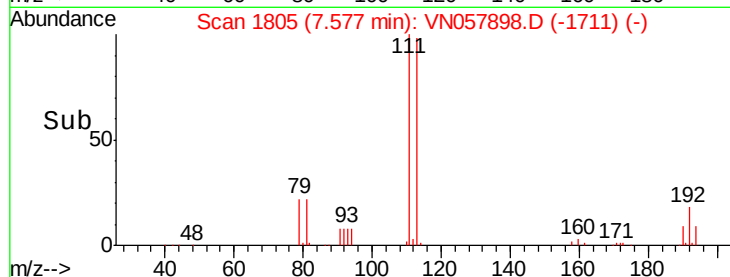
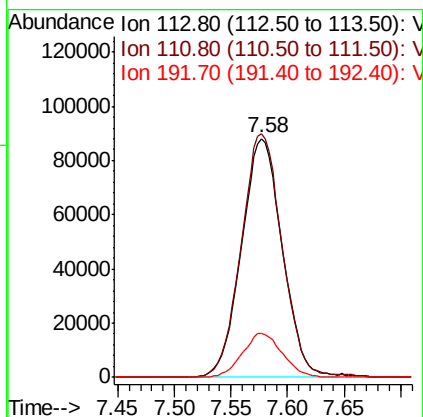
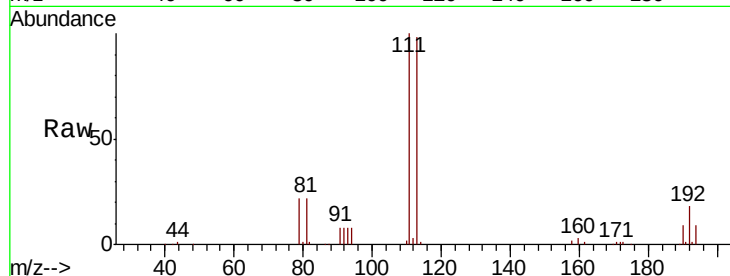




#35
Dibromofluoromethane
Concen: 47.656 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

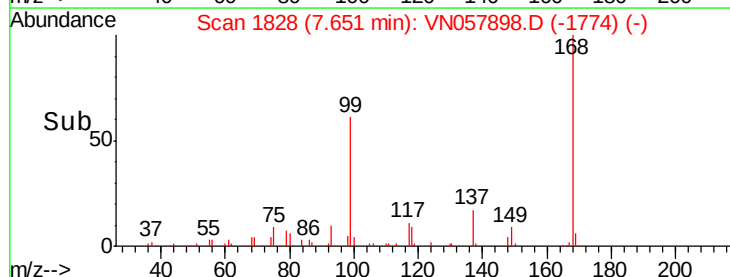
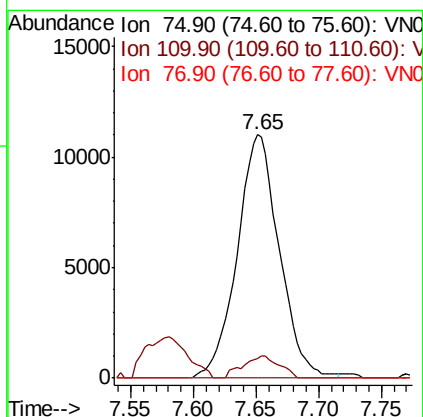
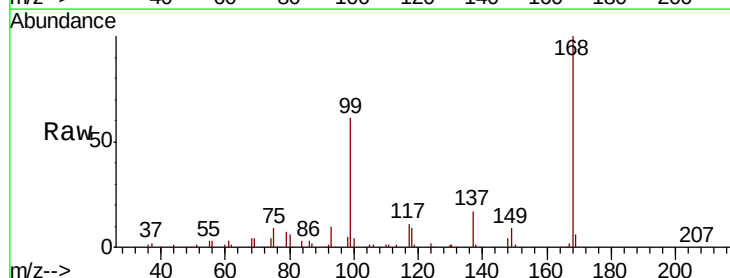
Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-13.0-18.0-091019

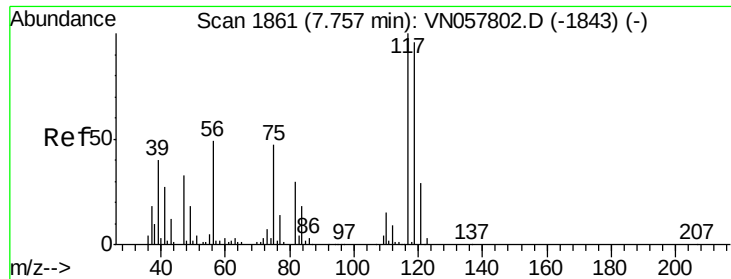
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.3	121.9
192	18.1	14.6	22.0



#36
1,1-Dichloropropene
Concen: 4.404 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.13 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.3	48.9#
77	0.0	25.0	37.4#

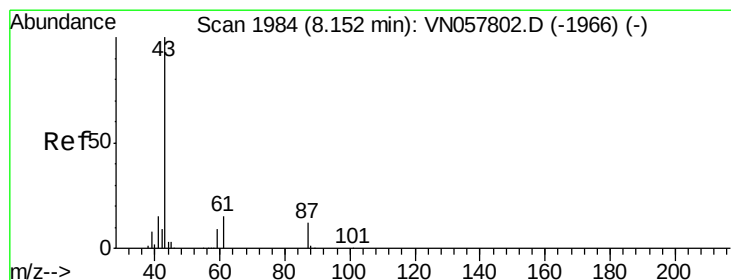
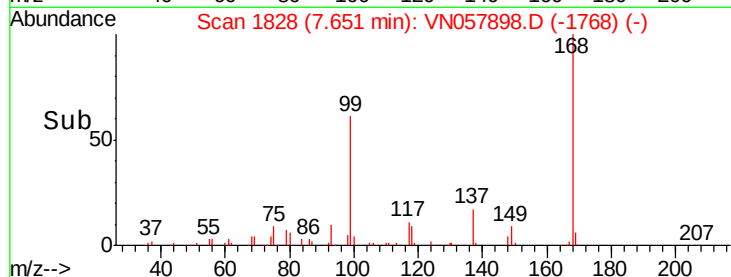
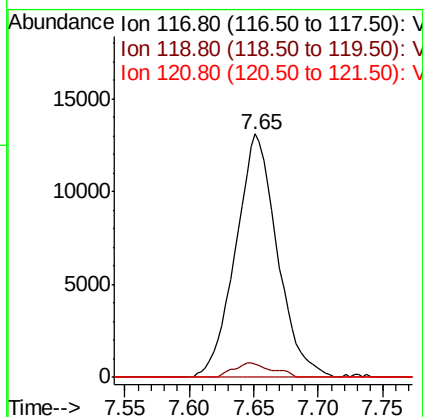
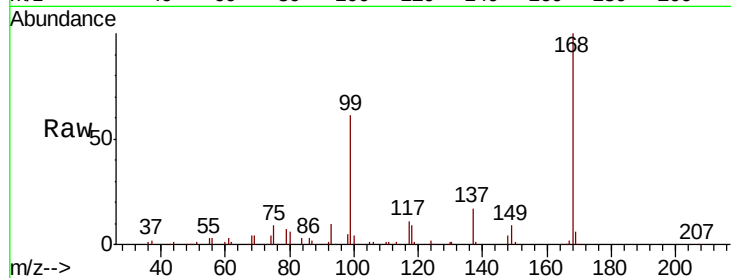




#38
Carbon Tetrachloride
Concen: 5.540 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

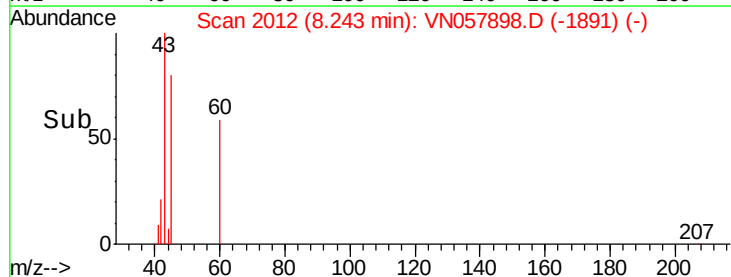
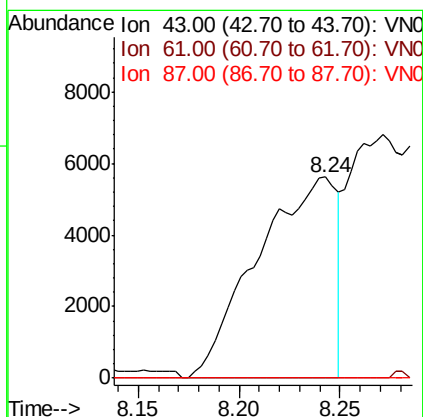
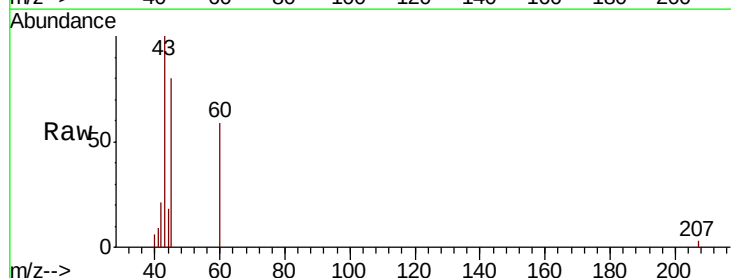
Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-13.0-18.0-091019

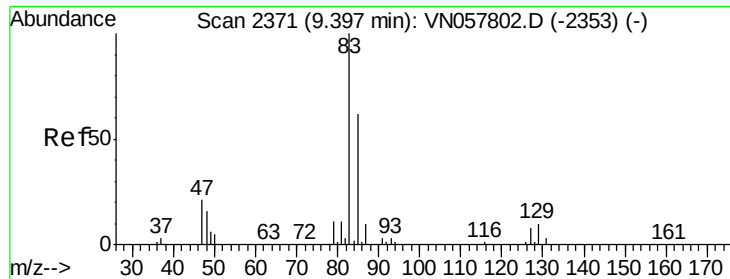
Tgt Ion: 117 Resp: 29459
Ion Ratio Lower Upper
117 100
119 5.5 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 1.517 ug/l
RT: 8.24 min Scan# 2012
Delta R.T. 0.09 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

Tgt Ion: 43 Resp: 15351
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#
87 0.0 9.5 14.3#





#47

Bromodichloromethane

Concen: 1.509 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN057898.D

Acq: 11 Sep 2019 5:10

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-13.0-18.0-091019

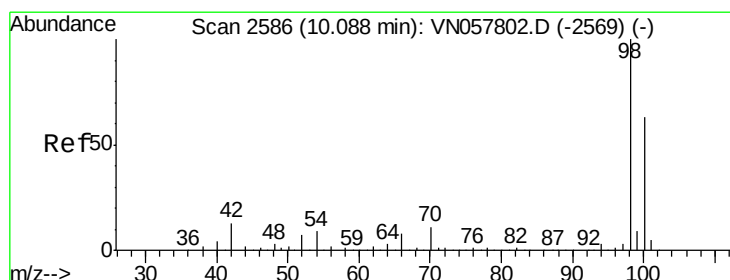
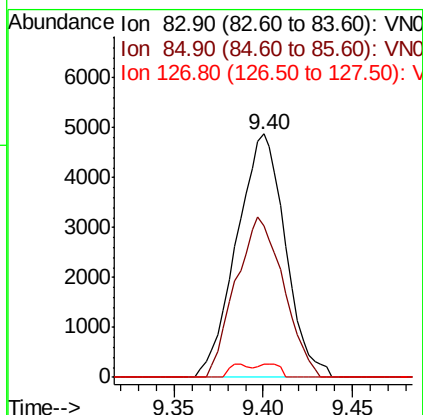
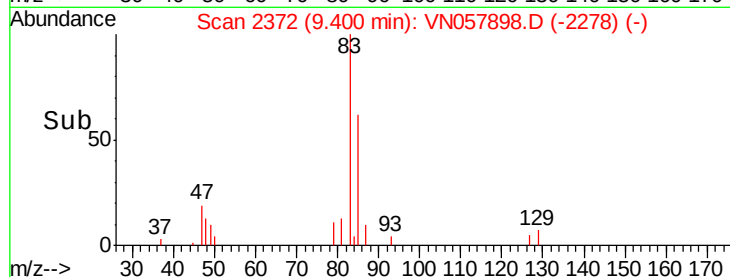
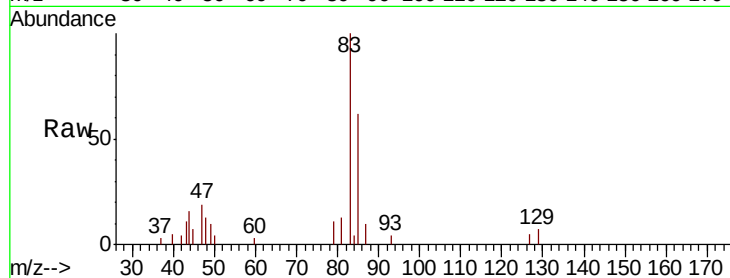
Tgt Ion: 83 Resp: 9293

Ion Ratio Lower Upper

83 100

85 62.4 49.9 74.9

127 5.4 6.5 9.7#



#50

Toluene-d8

Concen: 49.839 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057898.D

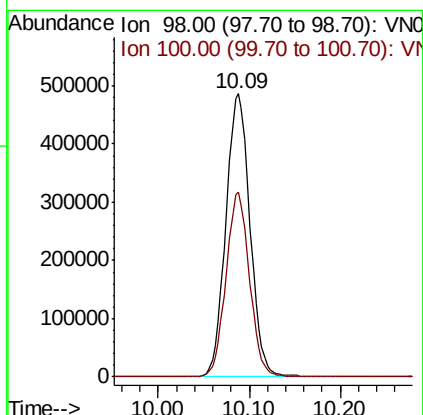
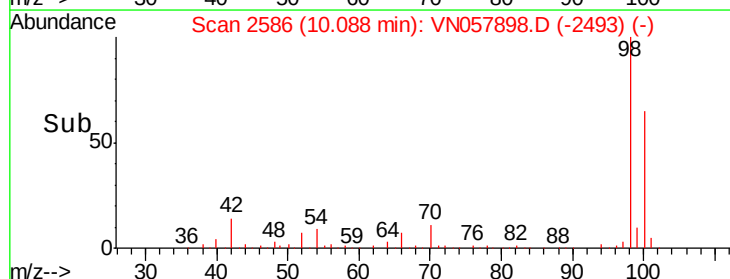
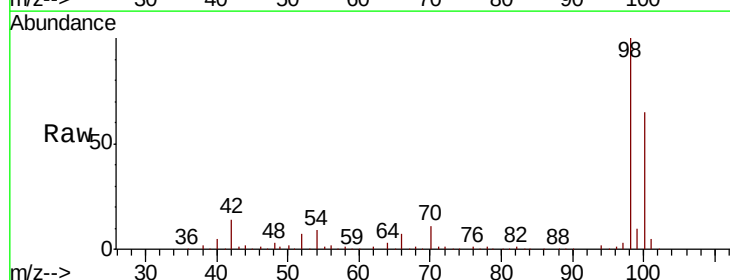
Acq: 11 Sep 2019 5:10

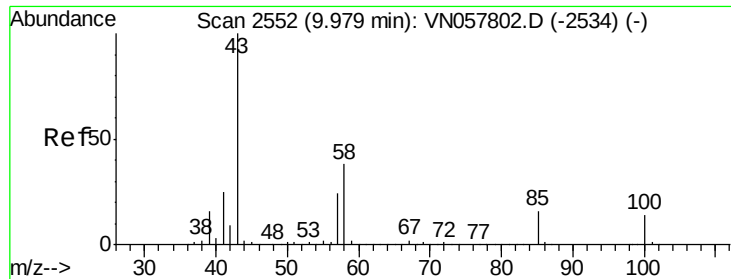
Tgt Ion: 98 Resp: 896952

Ion Ratio Lower Upper

98 100

100 63.5 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.808 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057898.D

Acq: 11 Sep 2019 5:10

Instrument :

MSVOA_N

ClientSampleId :

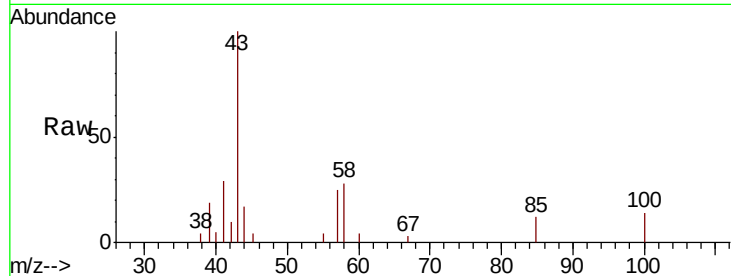
GW200A-B4-13.0-18.0-091019

Tgt Ion: 43 Resp: 10827

Ion Ratio Lower Upper

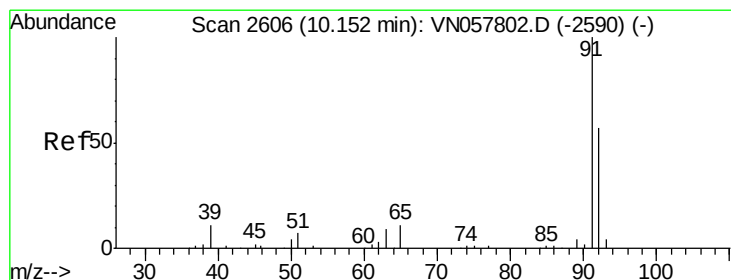
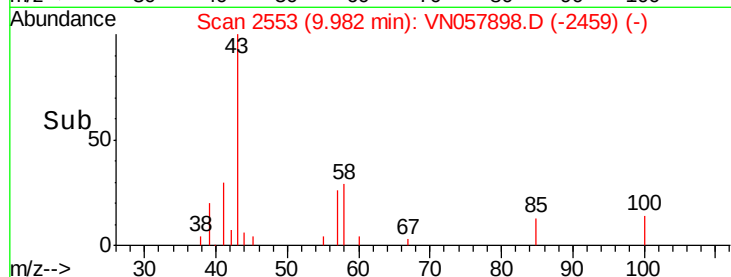
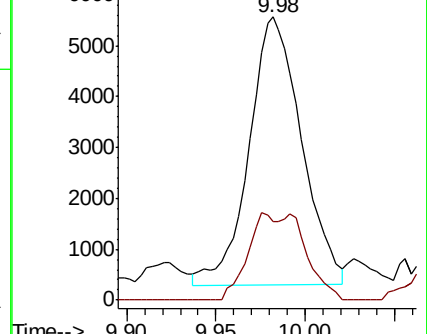
43 100

58 19.1 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.373 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057898.D

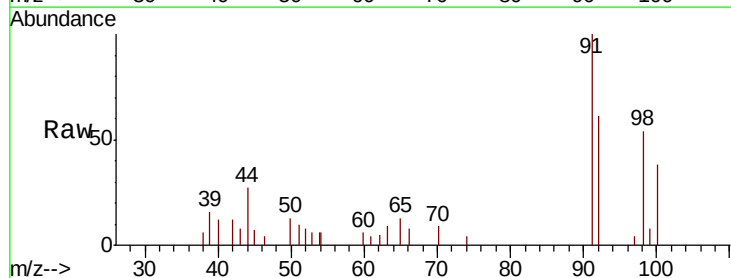
Acq: 11 Sep 2019 5:10

Tgt Ion: 92 Resp: 4115

Ion Ratio Lower Upper

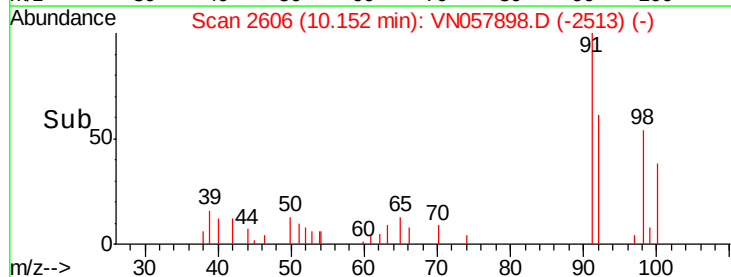
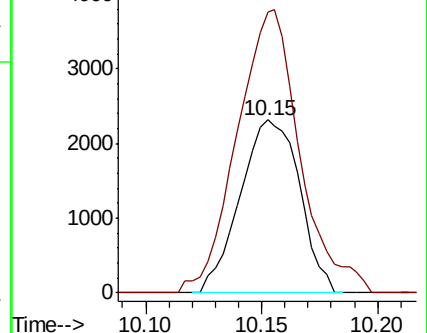
92 100

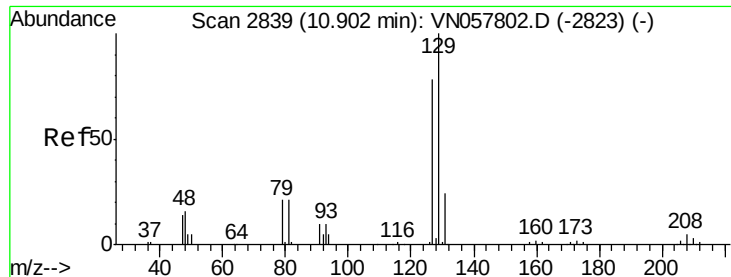
91 173.5 141.0 211.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

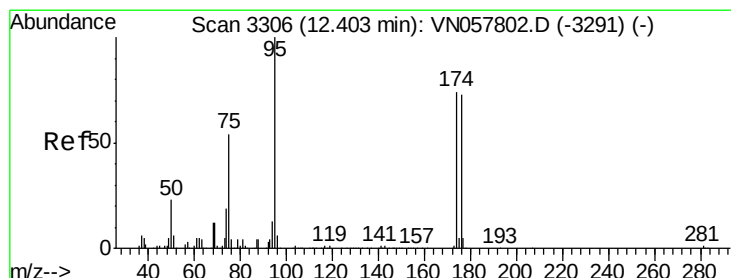
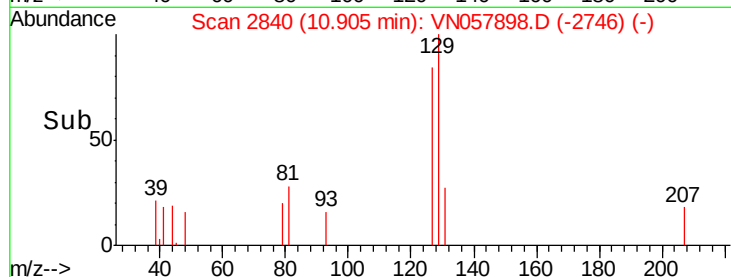
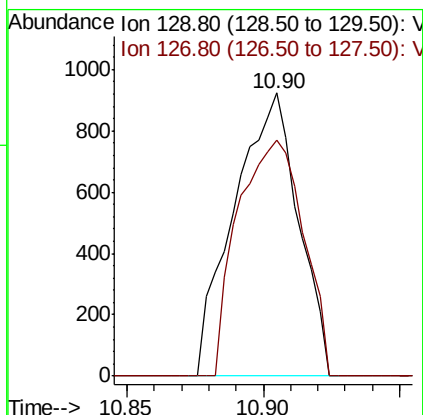
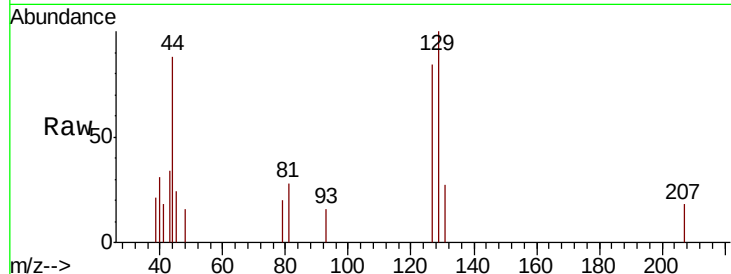




#60
 Dibromochloromethane
 Concen: 0.348 ug/l
 RT: 10.90 min Scan# 2840
 Delta R.T. 0.00 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

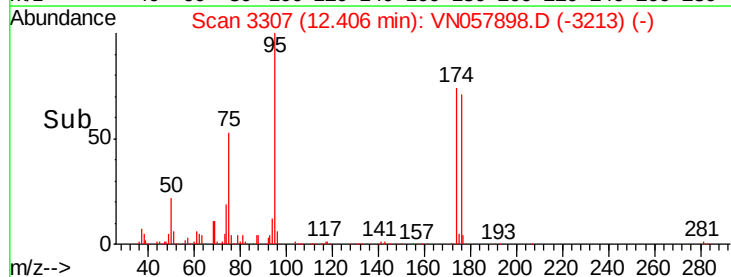
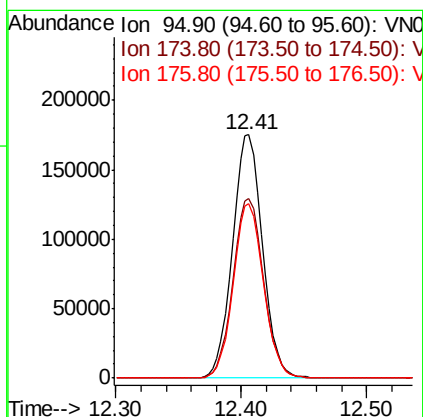
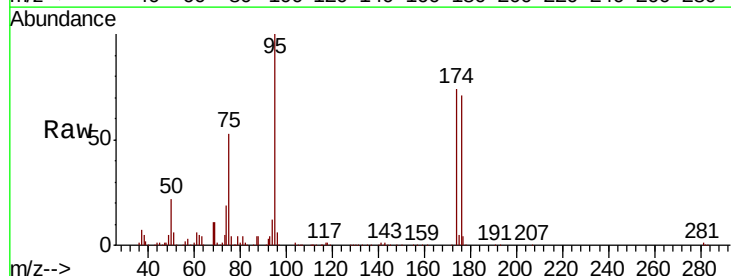
Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-13.0-18.0-091019

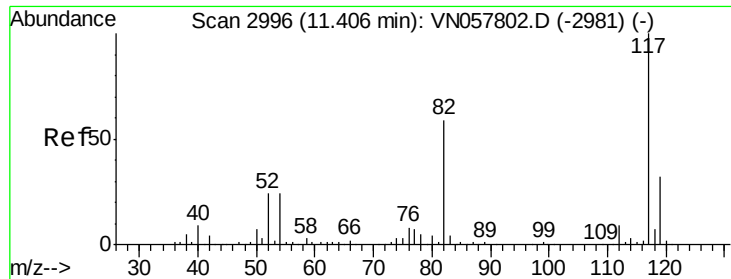
Tgt Ion: 129 Resp: 1510
 Ion Ratio Lower Upper
 129 100
 127 85.3 38.6 116.0



#62
 4-Bromofluorobenzene
 Concen: 42.508 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

Tgt Ion: 95 Resp: 291536
 Ion Ratio Lower Upper
 95 100
 174 75.3 0.0 150.2
 176 72.0 0.0 146.0

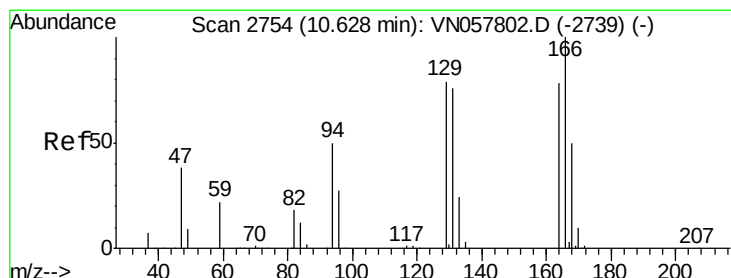
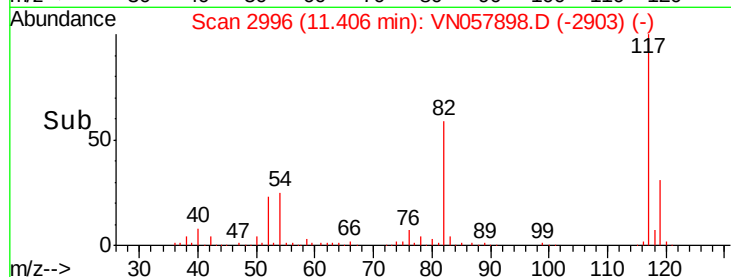
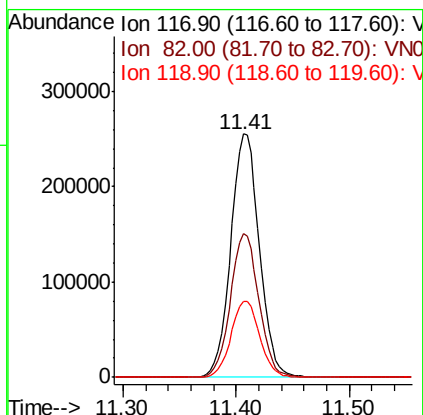
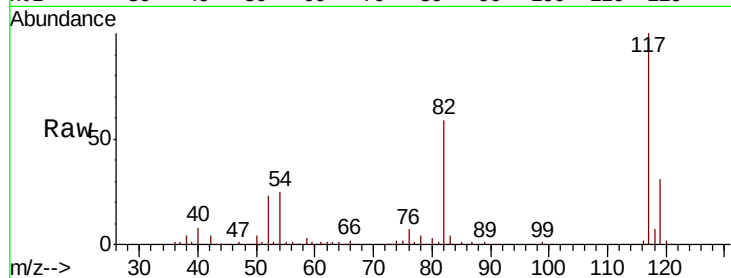




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

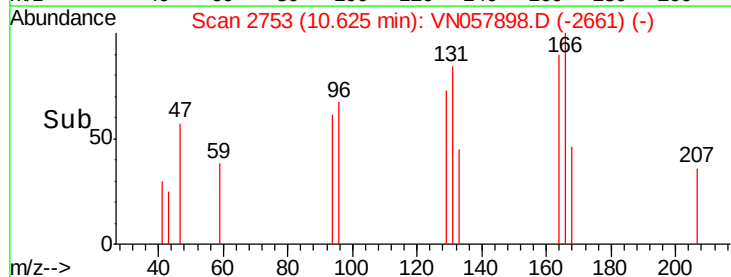
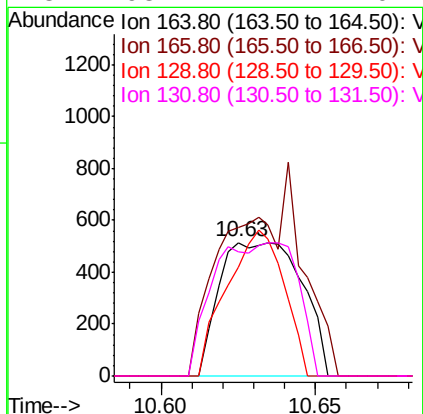
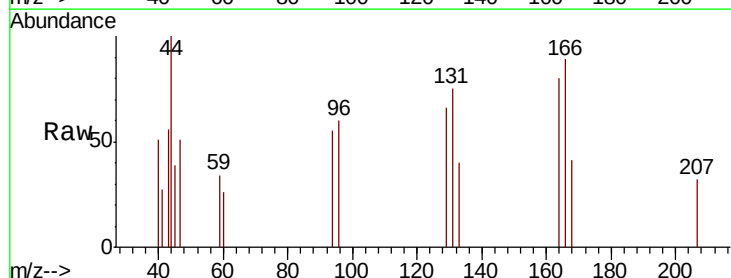
Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-13.0-18.0-091019

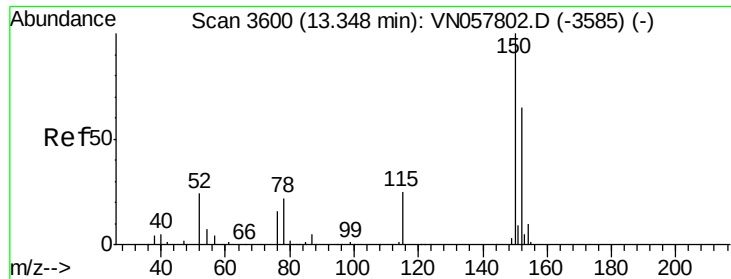
Tgt Ion:117 Resp: 448852
Ion Ratio Lower Upper
117 100
82 59.3 47.2 70.8
119 31.2 25.3 37.9



#64
Tetrachloroethene
Concen: 0.288 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN057898.D
Acq: 11 Sep 2019 5:10

Tgt Ion:164 Resp: 953
Ion Ratio Lower Upper
164 100
166 111.5 102.2 153.2
129 81.7 80.8 121.2
131 93.4 77.4 116.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057898.D

Acq: 11 Sep 2019 5:10

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-13.0-18.0-091019

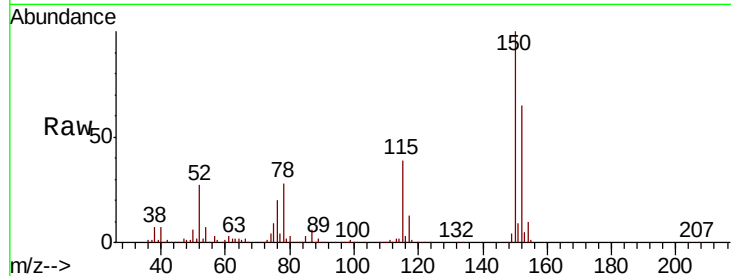
Tgt Ion: 152 Resp: 231819

Ion Ratio Lower Upper

152 100

115 60.2 30.3 91.0

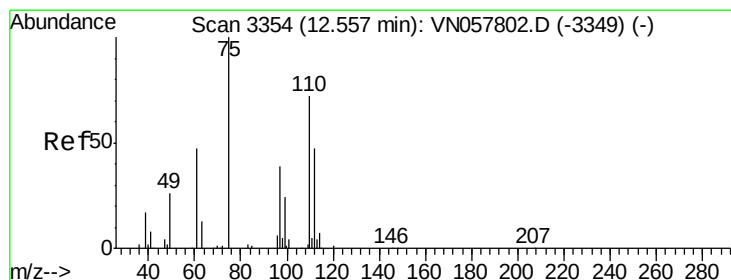
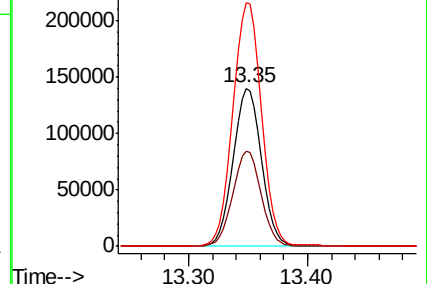
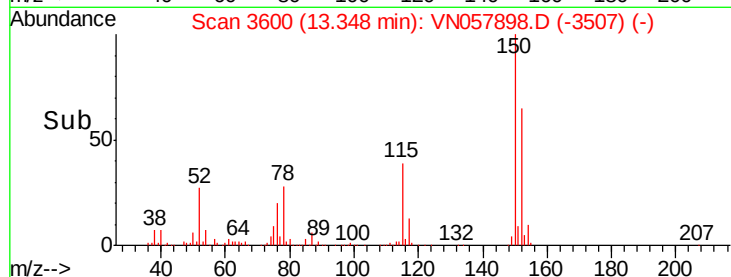
150 156.2 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 30.622 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057898.D

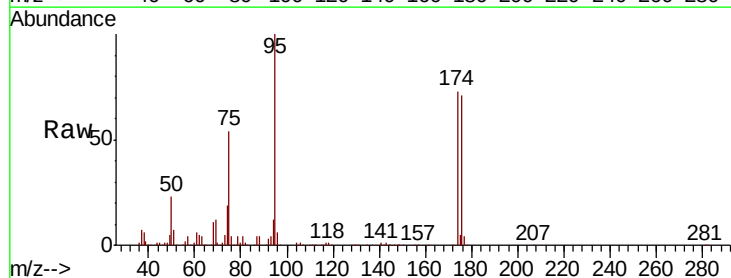
Acq: 11 Sep 2019 5:10

Tgt Ion: 75 Resp: 160587

Ion Ratio Lower Upper

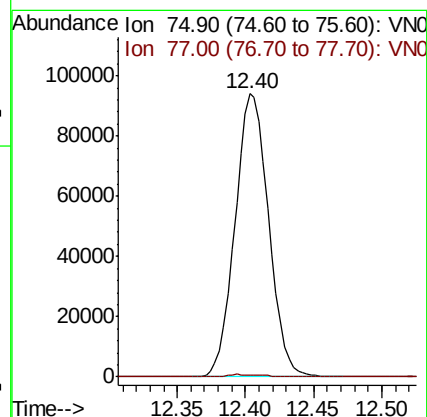
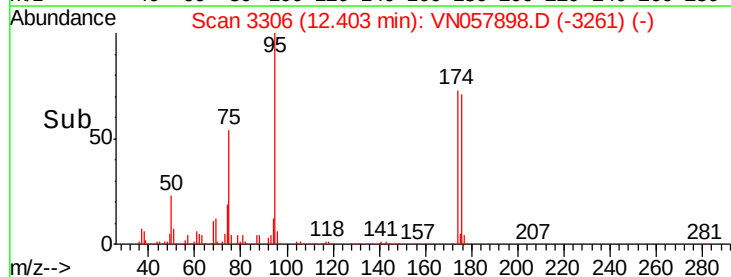
75 100

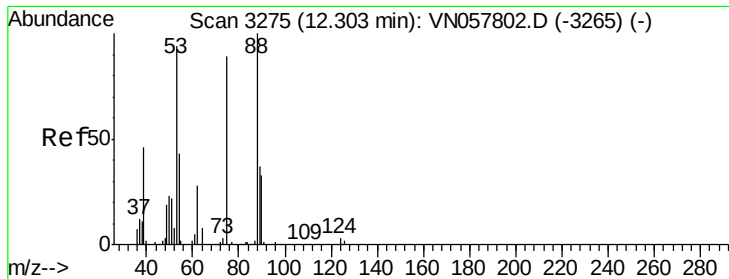
77 0.5 0.0 0.0#



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: 107.760 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057898.D

Acq: 11 Sep 2019 5:10

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-13.0-18.0-091019

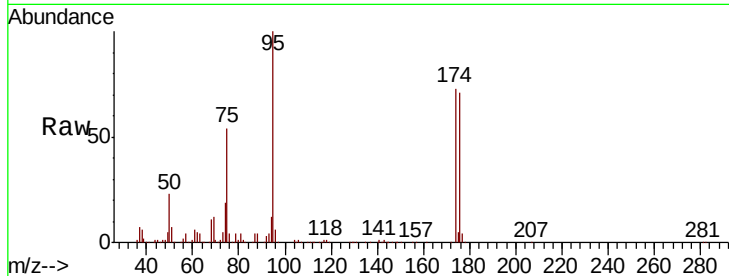
Tgt Ion: 75 Resp: 160587

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

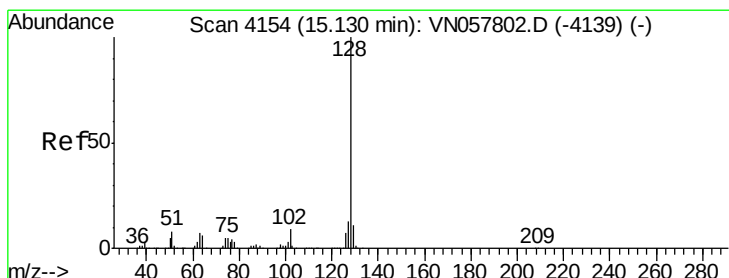
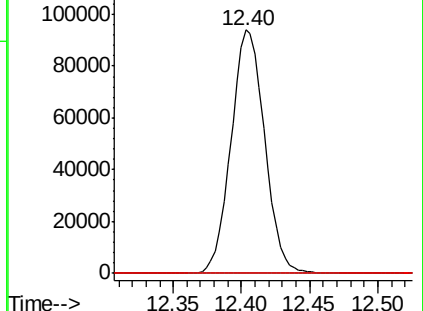
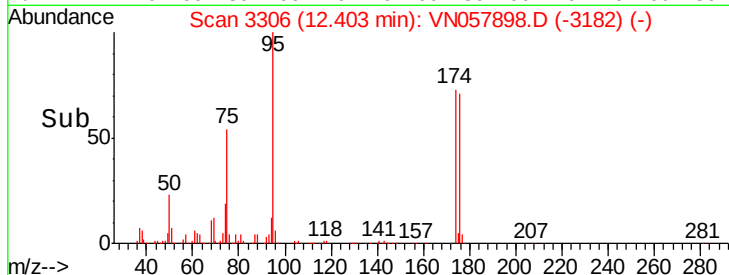
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057898.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN057898.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN057898.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057898.D

Acq: 11 Sep 2019 5:10

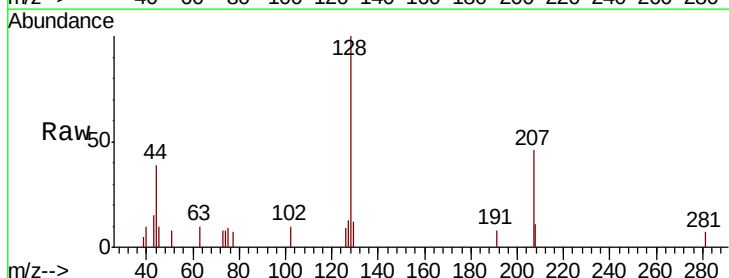
Tgt Ion: 128 Resp: 4726

Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

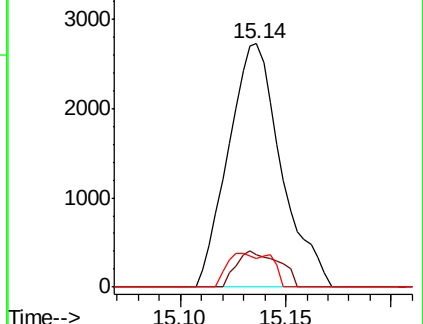
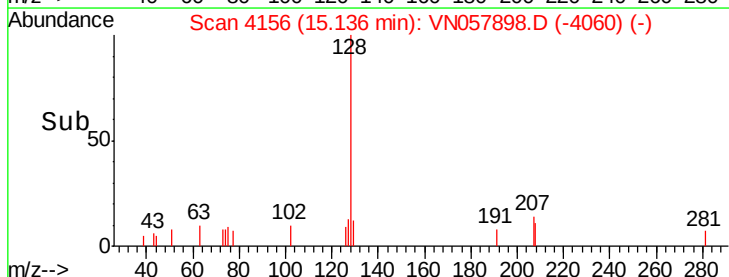
129 11.7 8.6 12.8

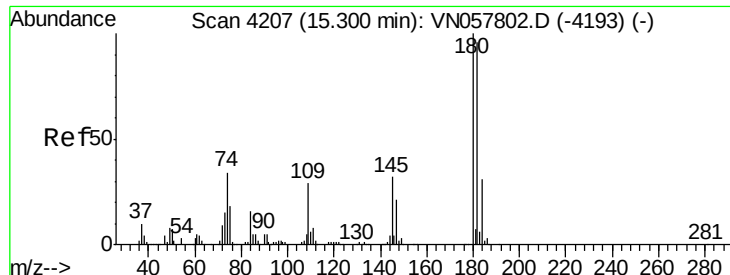


Abundance Ion 128.00 (127.70 to 128.70): VN057898.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN057898.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN057898.D (-4060) (-)

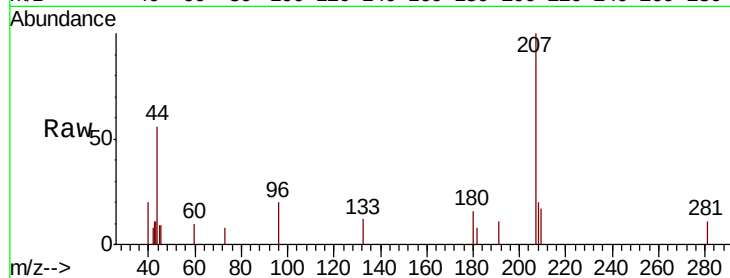




#96
 1,2,3-Trichlorobenzene
 Concen: 1.083 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.02 min
 Lab File: VN057898.D
 Acq: 11 Sep 2019 5:10

Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-13.0-18.0-091019

Tgt Ion	Ratio	Lower	Upper
180	100		
182	82.0	48.3	144.8
145	0.0	16.3	48.8#



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

