

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057900.D
 Acq On : 11 Sep 2019 5:54
 Operator : JC/SP
 Sample : K4820-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-47.0-52.0-091019

Quant Time: Sep 11 07:16:33 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

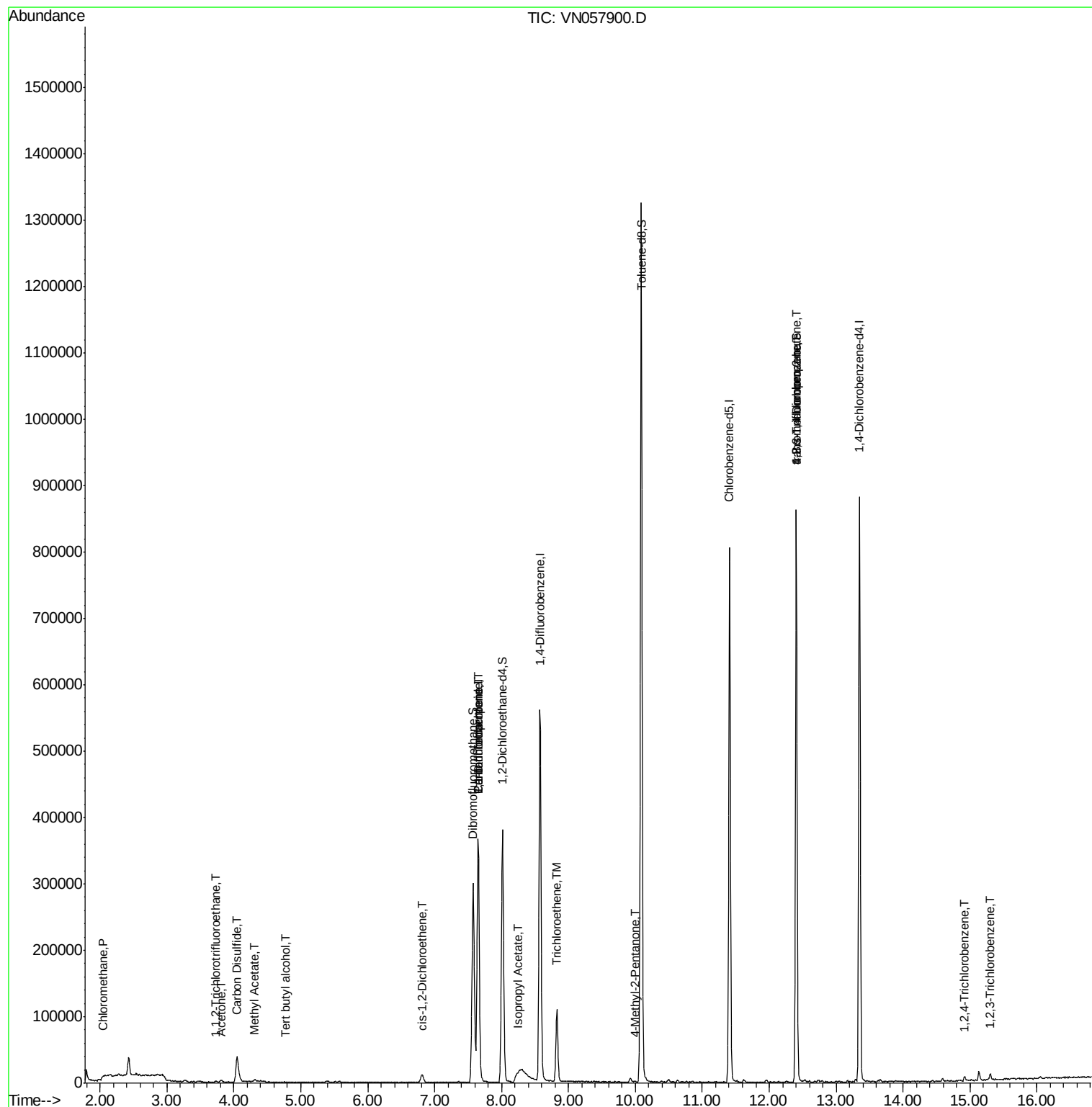
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	284710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	487827	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	439931	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	222077	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	324438	56.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.52%	
35) Dibromofluoromethane	7.58	113	224037	49.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.52%	
50) Toluene-d8	10.09	98	899827	51.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.40	95	292185	43.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.72%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	918	0.229 ug/l #		87
5) Bromomethane	2.55	94	832	Below Cal		99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	744	0.221 ug/l #		51
11) Tert butyl alcohol	4.77	59	318	0.456 ug/l #		72
16) Acetone	3.81	43	3278	1.734 ug/l		91
17) Carbon Disulfide	4.03	76	1037	0.378 ug/l #		75
18) Methyl Acetate	4.31	43	2250	0.446 ug/l		98
20) Methylene Chloride	4.53	84	196	Below Cal #		52
27) cis-1,2-Dichloroethene	6.80	96	2697	0.614 ug/l		37
31) Cyclohexane	7.65	56	7703	Below Cal #		33
36) 1,1-Dichloropropene	7.65	75	23774	4.202 ug/l #		51
38) Carbon Tetrachloride	7.65	117	28913	5.598 ug/l #		15
43) Isopropyl Acetate	8.23	43	11143	1.134 ug/l #		56
44) Trichloroethene	8.83	130	38610	9.242 ug/l		100
51) 4-Methyl-2-Pentanone	9.99	43	1240	0.213 ug/l #		38
76) 1,2,3-Trichloropropane	12.40	75	160919	32.032 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	160919	112.720 ug/l #		6
93) 1,2,4-Trichlorobenzene	14.92	180	2505	0.486 ug/l		94
95) Naphthalene	15.13	128	10205	Below Cal #		94
96) 1,2,3-Trichlorobenzene	15.30	180	3061	1.665 ug/l		95

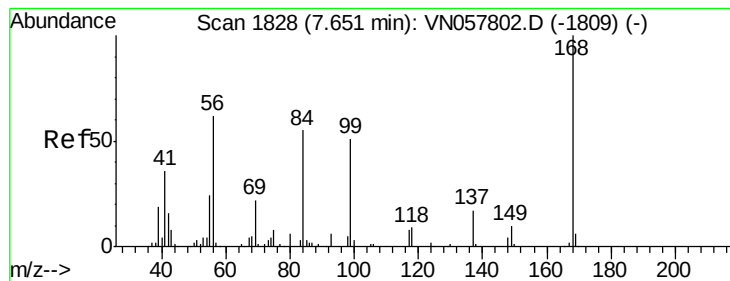
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

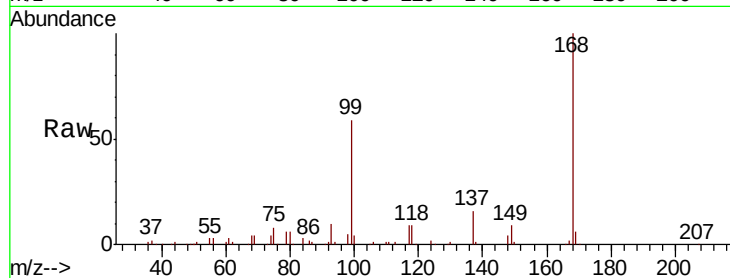
GW200A-B4-47.0-52.0-091019

Tgt Ion:168 Resp: 284710

Ion Ratio Lower Upper

168 100

99 59.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

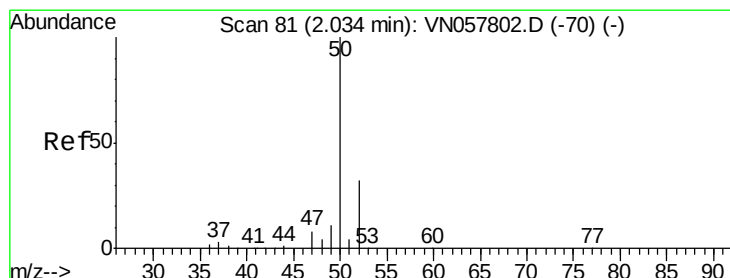
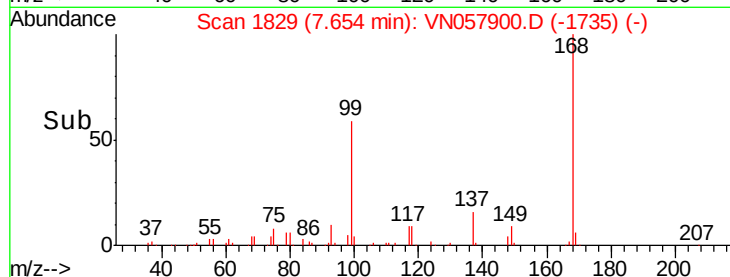
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.229 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057900.D

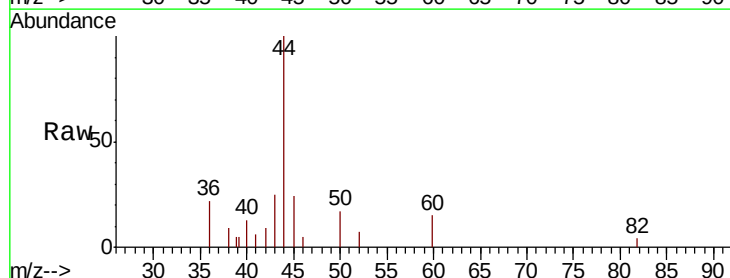
Acq: 11 Sep 2019 5:54

Tgt Ion: 50 Resp: 918

Ion Ratio Lower Upper

50 100

52 39.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.04

800

600

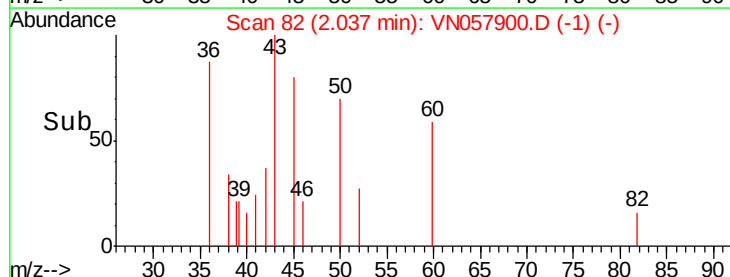
400

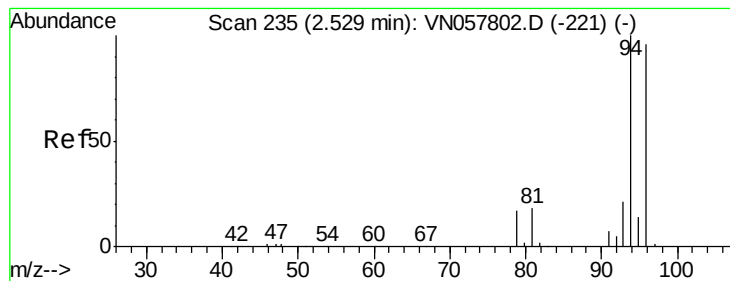
200

0

2.00 2.02 2.04 2.06 2.08

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

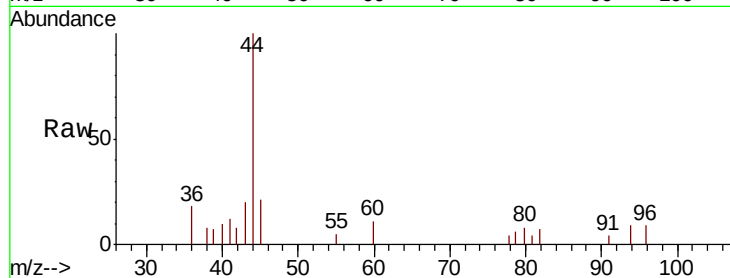
GW200A-B4-47.0-52.0-091019

Tgt Ion: 94 Resp: 832

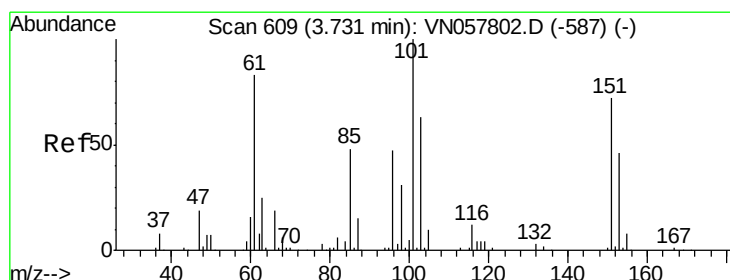
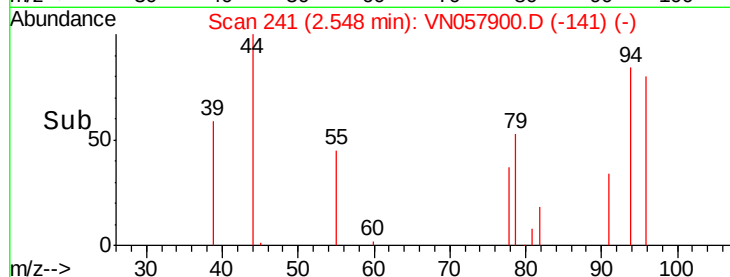
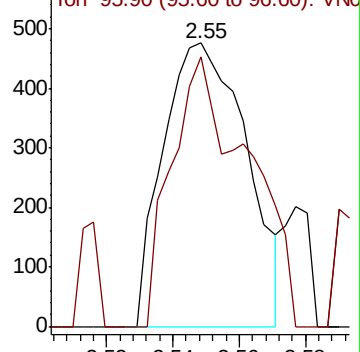
Ion Ratio Lower Upper

94 100

96 95.2 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.221 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

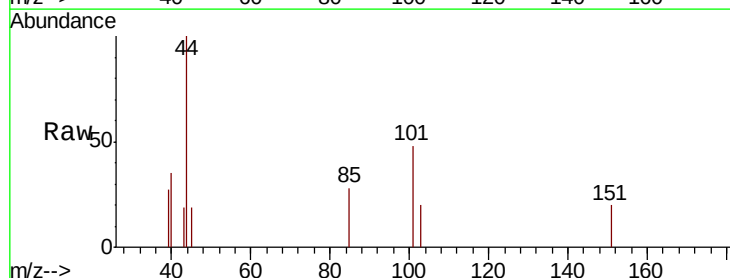
Tgt Ion: 101 Resp: 744

Ion Ratio Lower Upper

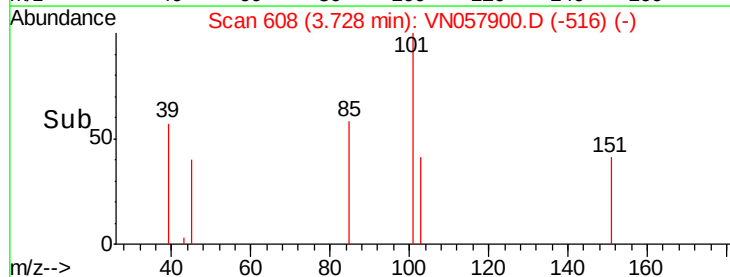
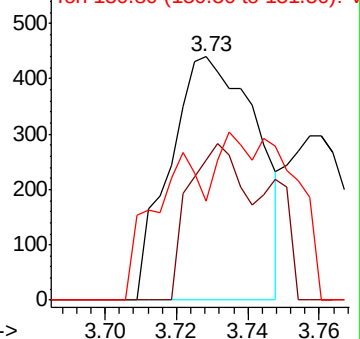
101 100

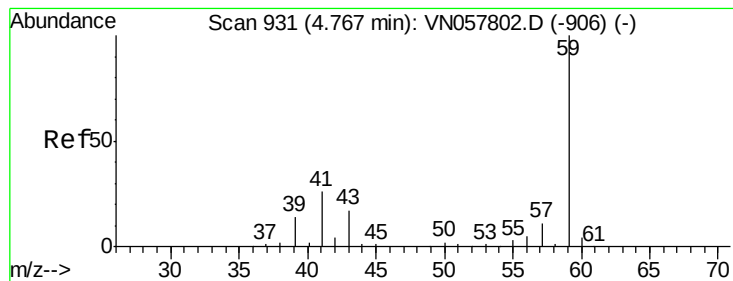
85 41.3 38.1 57.1

151 10.2 58.4 87.6#



Abundance Ion 100.90 (100.60 to 101.60): VN057802.D (-587) (-)





#11

Tert butyl alcohol

Concen: 0.456 ug/l

RT: 4.77 min Scan# 932

Delta R.T. 0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

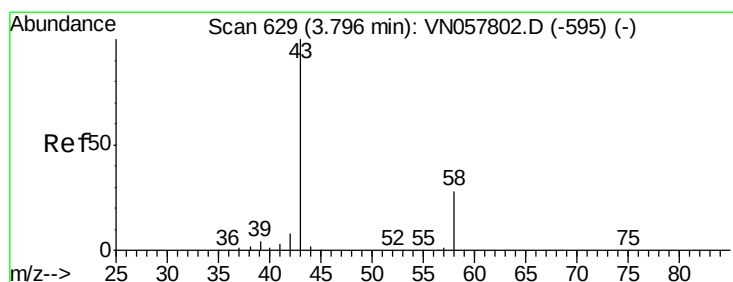
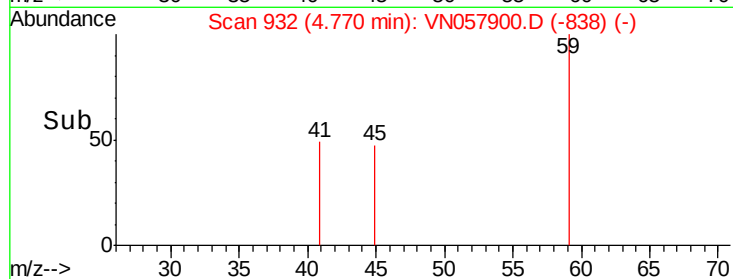
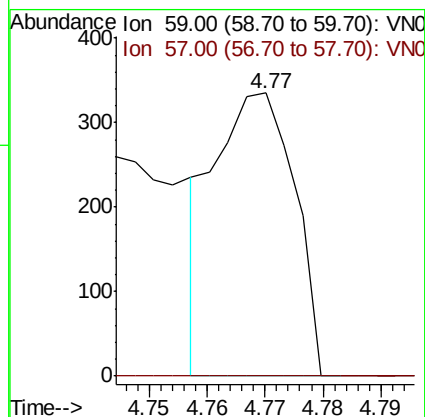
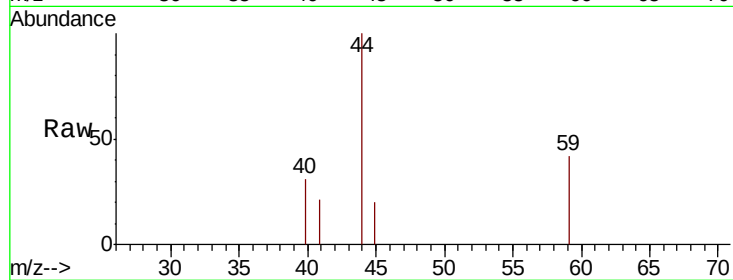
GW200A-B4-47.0-52.0-091019

Tgt Ion: 59 Resp: 318

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#16

Acetone

Concen: 1.734 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057900.D

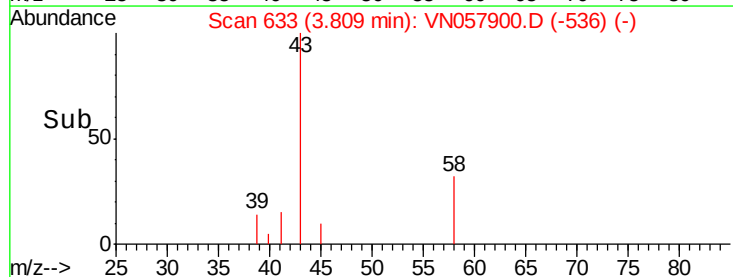
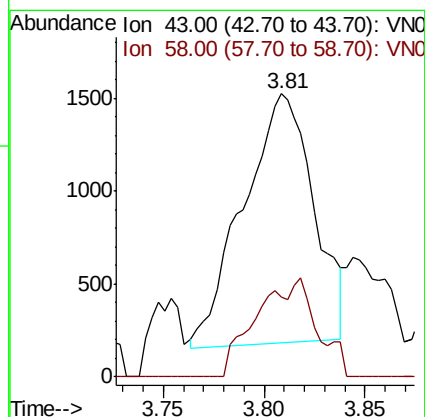
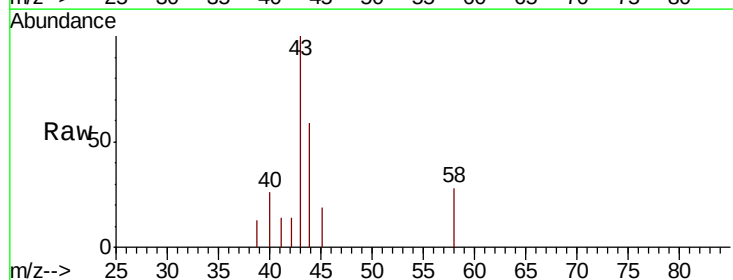
Acq: 11 Sep 2019 5:54

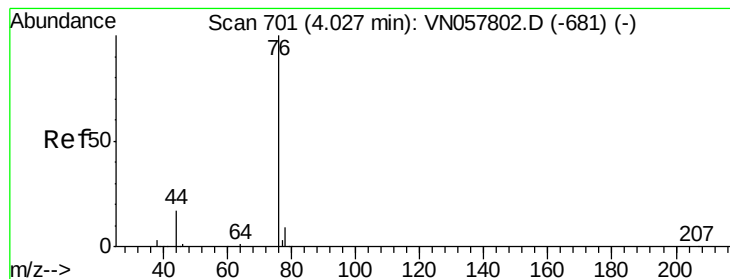
Tgt Ion: 43 Resp: 3278

Ion Ratio Lower Upper

43 100

58 32.6 22.2 33.2





#17

Carbon Disulfide

Concen: 0.378 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

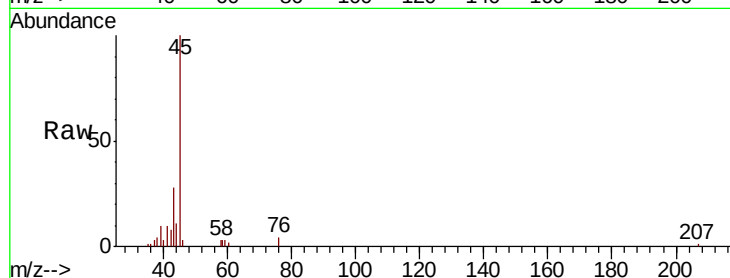
GW200A-B4-47.0-52.0-091019

Tgt Ion: 76 Resp: 1037

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

500

400

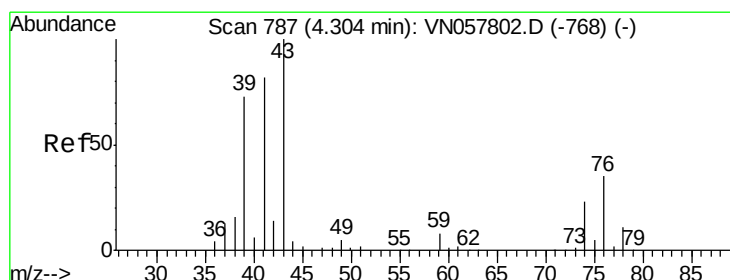
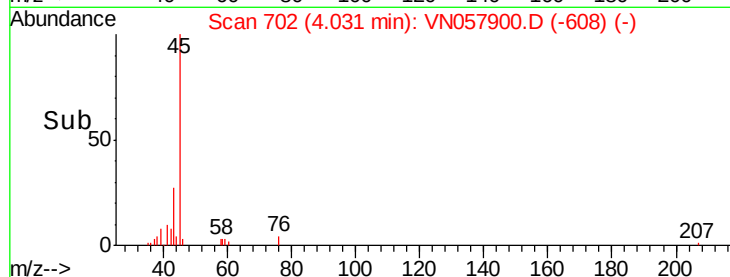
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 0.446 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN057900.D

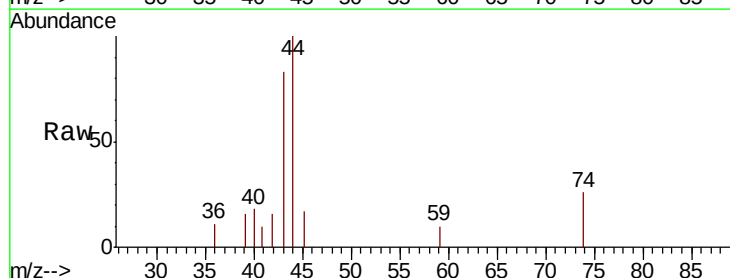
Acq: 11 Sep 2019 5:54

Tgt Ion: 43 Resp: 2250

Ion Ratio Lower Upper

43 100

74 23.5 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

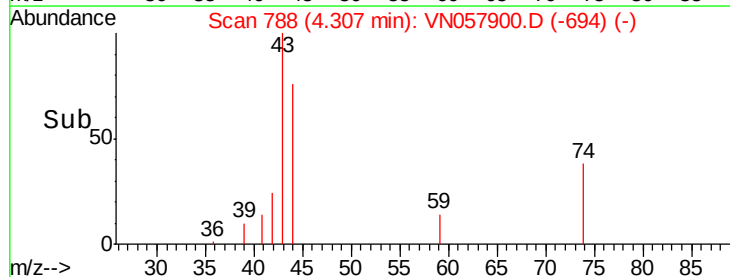
1500

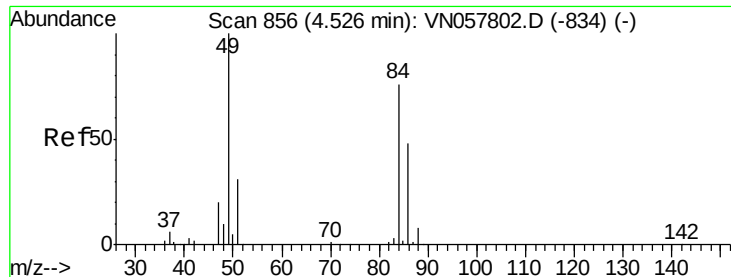
1000

500

0

Time-->

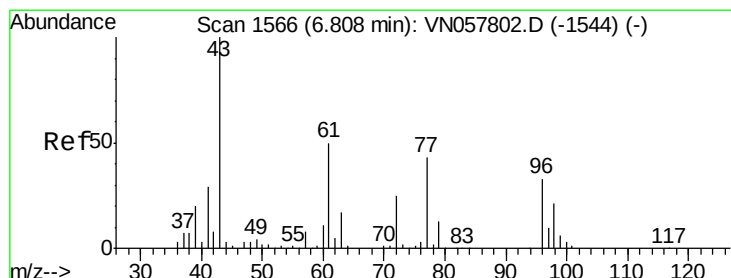
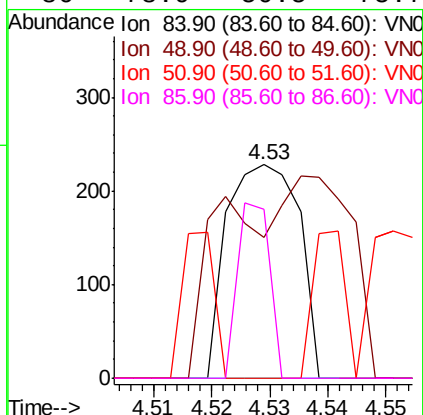
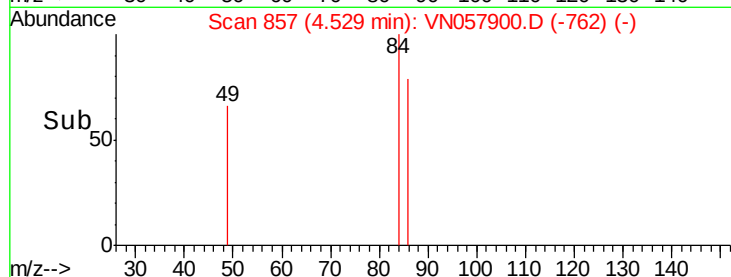
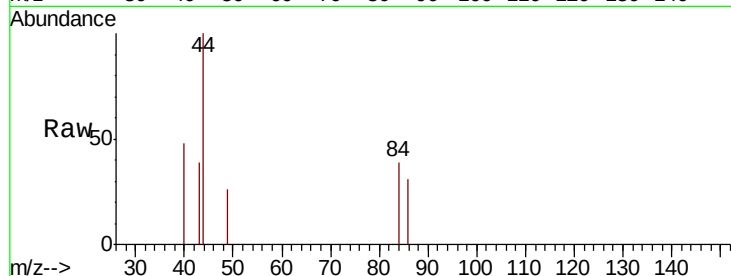




#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057900.D
Acq: 11 Sep 2019 5:54

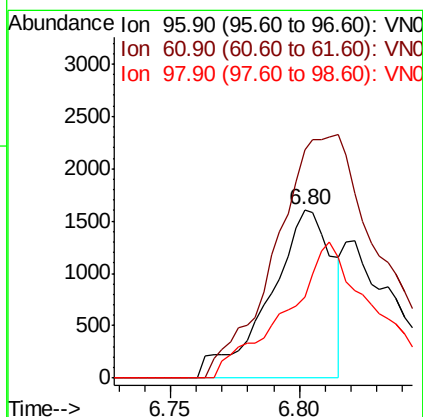
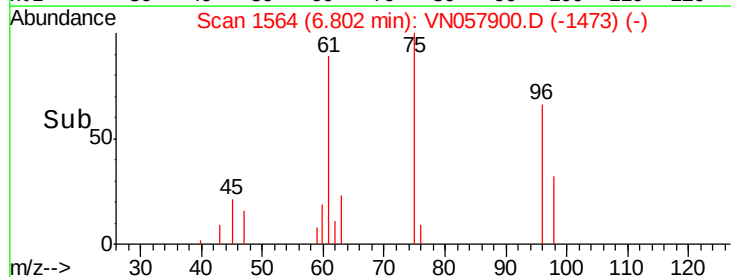
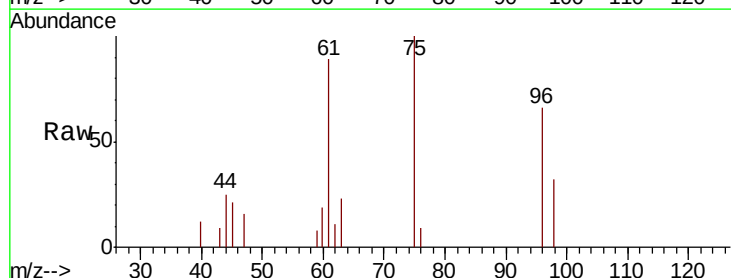
Instrument :
MSVOA_N
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GW200A-B4-47.0-52.0-091019

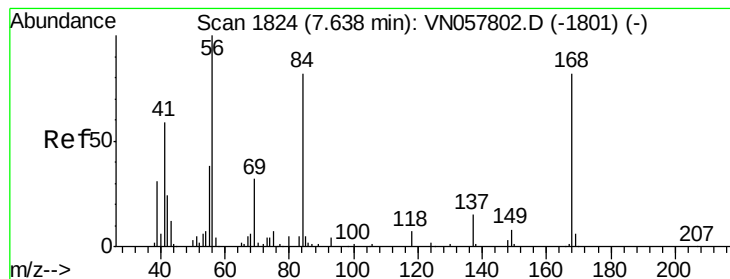
Tgt Ion: 84 Resp: 196
Ion Ratio Lower Upper
84 100
49 65.8 104.8 157.2#
51 0.0 33.0 49.4#
86 78.9 50.5 75.7#



#27
cis-1,2-Dichloroethene
Concen: 0.614 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VN057900.D
Acq: 11 Sep 2019 5:54

Tgt Ion: 96 Resp: 2697
Ion Ratio Lower Upper
96 100
61 239.6 0.0 314.0
98 111.9 0.0 128.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019

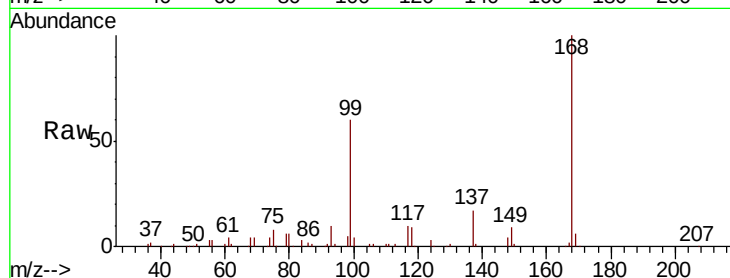
Tgt Ion: 56 Resp: 7703

Ion Ratio Lower Upper

56 100

69 140.6 25.9 38.9#

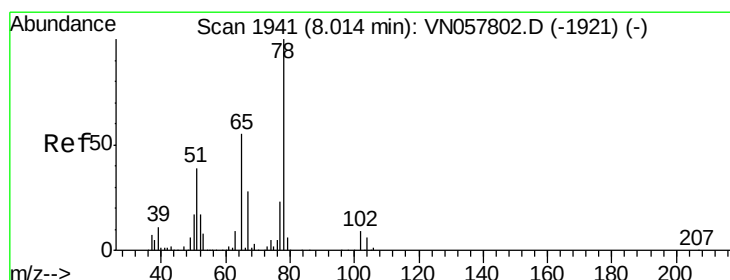
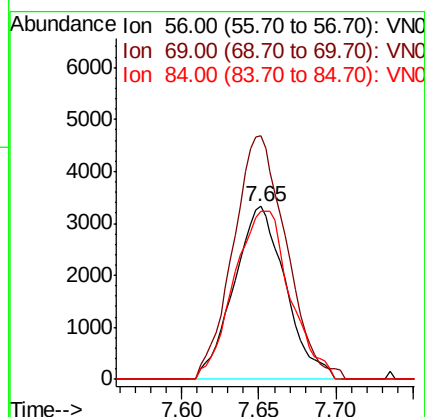
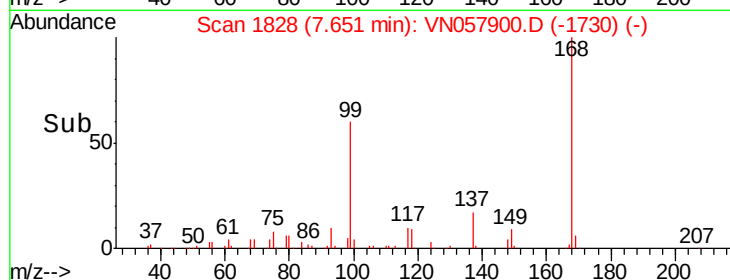
84 97.4 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 56.262 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057900.D

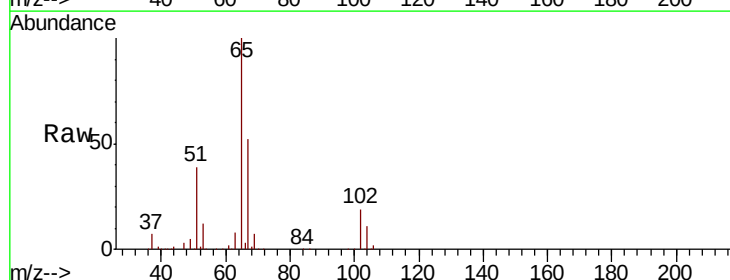
Acq: 11 Sep 2019 5:54

Tgt Ion: 65 Resp: 324438

Ion Ratio Lower Upper

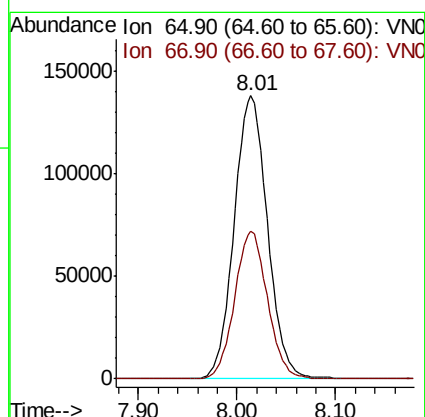
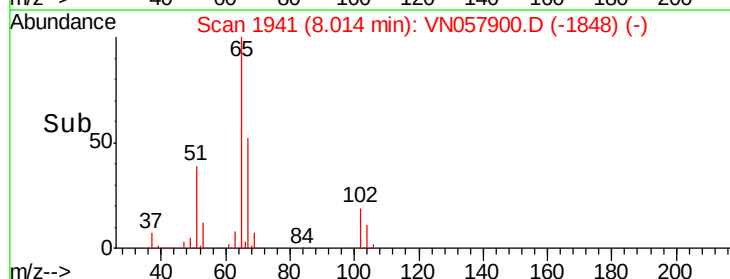
65 100

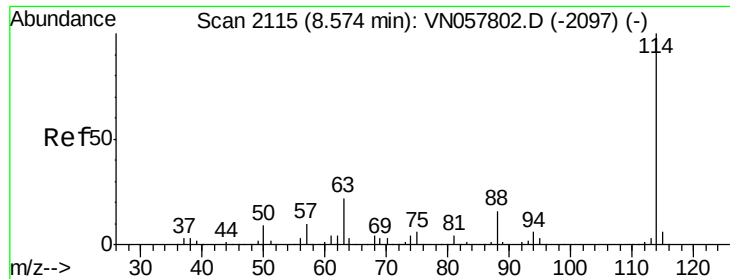
67 51.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

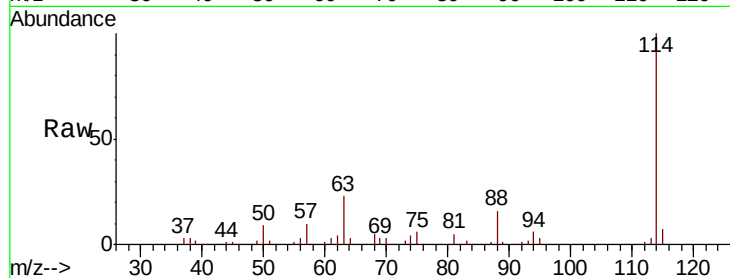




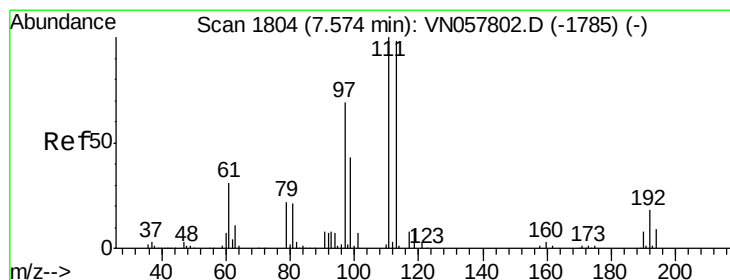
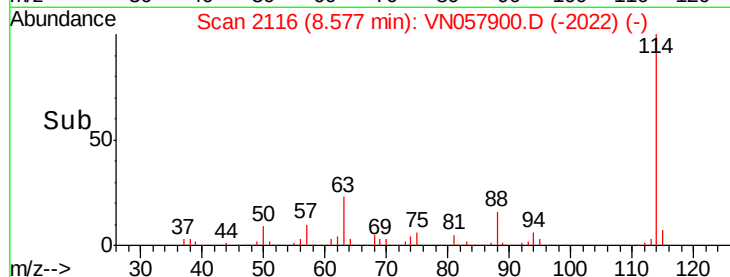
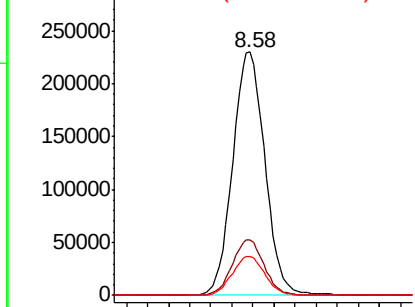
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057900.D
 Acq: 11 Sep 2019 5:54

Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-47.0-52.0-091019

Tgt Ion:114 Resp: 487827
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.0
 88 16.2 0.0 31.4

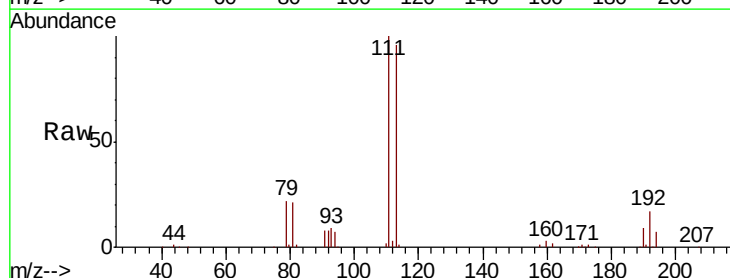


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

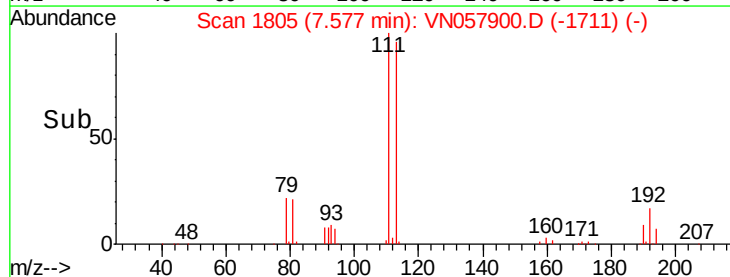
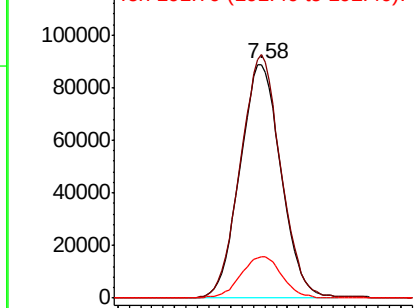


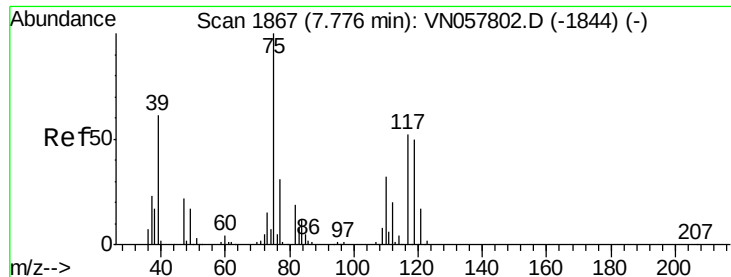
#35
 Dibromofluoromethane
 Concen: 49.759 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057900.D
 Acq: 11 Sep 2019 5:54

Tgt Ion:113 Resp: 224037
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.3 121.9
 192 17.9 14.6 22.0



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: 4.202 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019

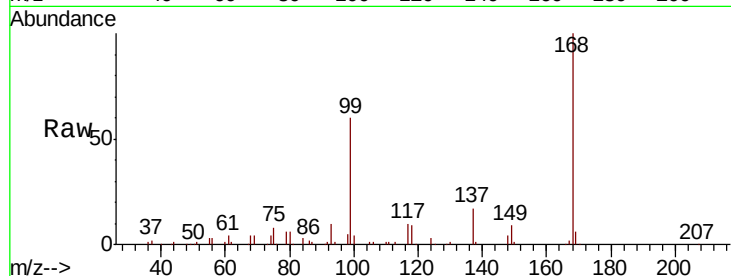
Tgt Ion: 75 Resp: 23774

Ion Ratio Lower Upper

75 100

110 8.9 16.3 48.9#

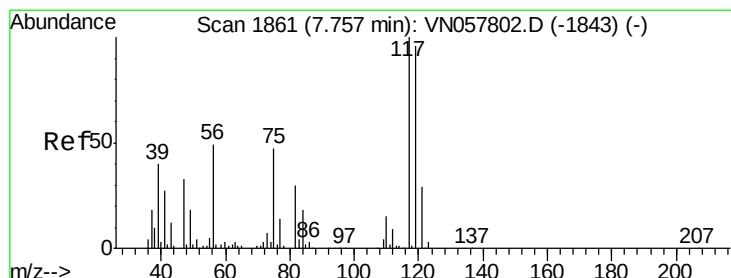
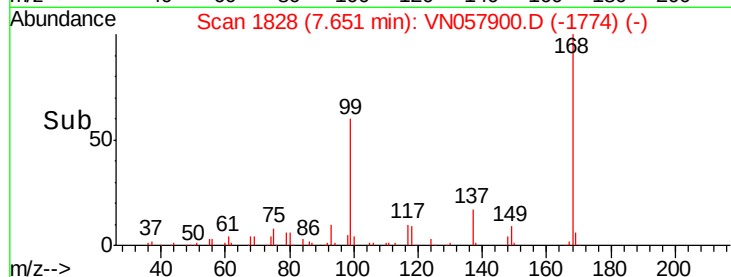
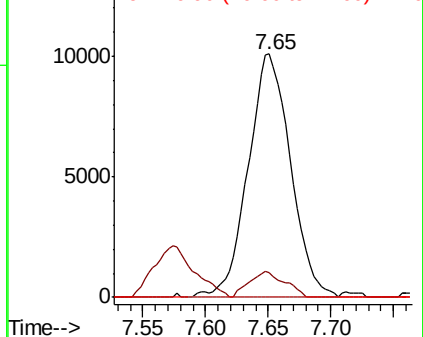
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)



#38

Carbon Tetrachloride

Concen: 5.598 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

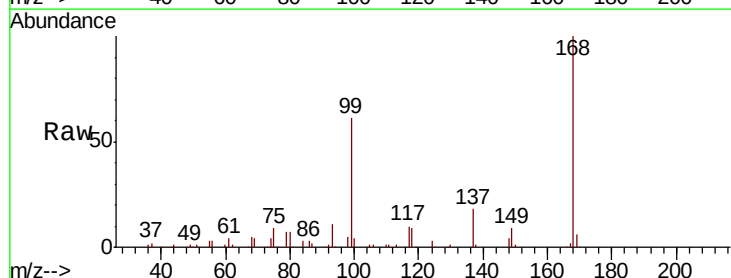
Tgt Ion: 117 Resp: 28913

Ion Ratio Lower Upper

117 100

119 4.3 76.9 115.3#

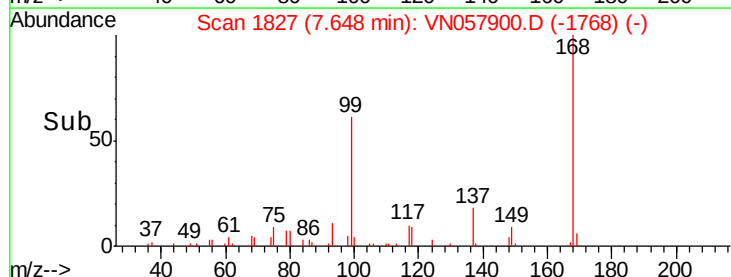
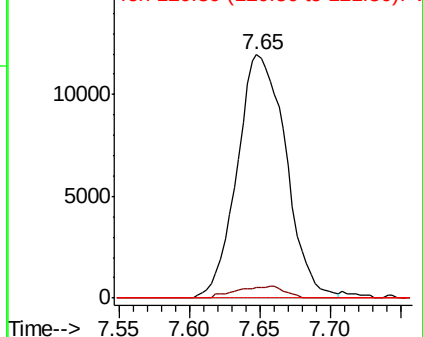
121 0.0 23.4 35.2#

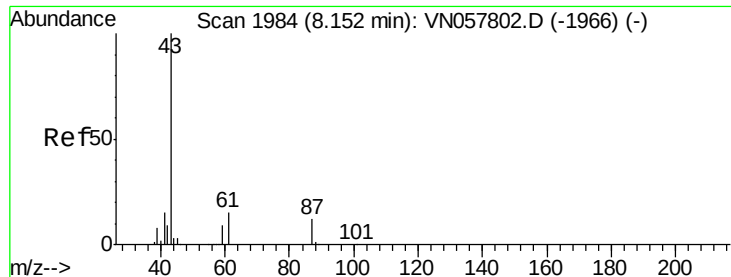


Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)

Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)

Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 1.134 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.08 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019

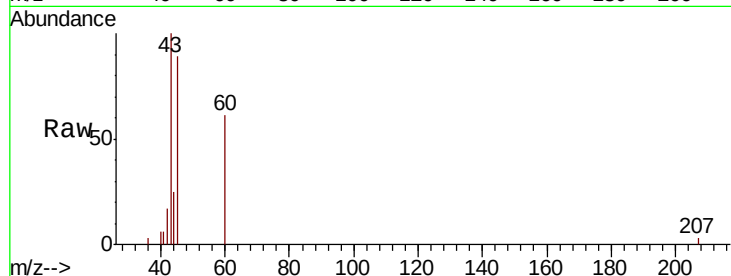
Tgt Ion: 43 Resp: 11143

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

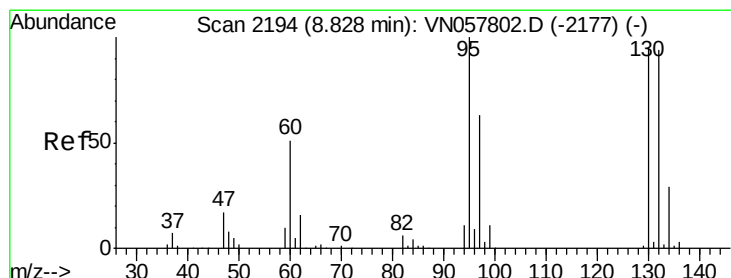
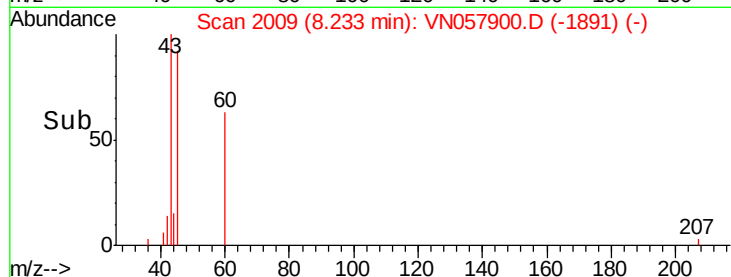
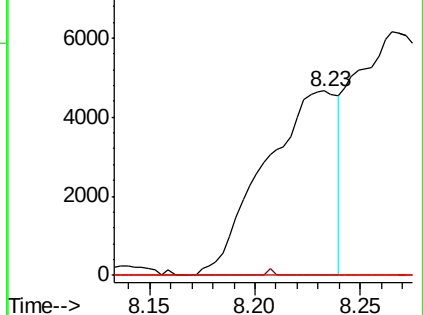
87 0.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 9.242 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN057900.D

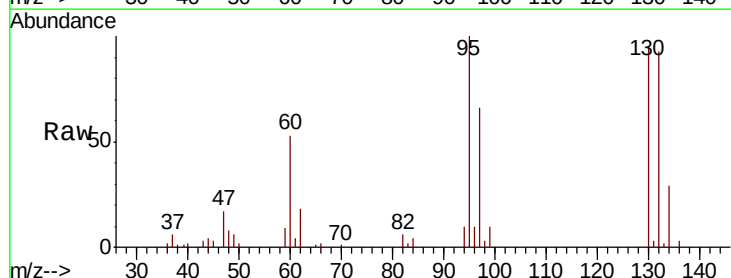
Acq: 11 Sep 2019 5:54

Tgt Ion: 130 Resp: 38610

Ion Ratio Lower Upper

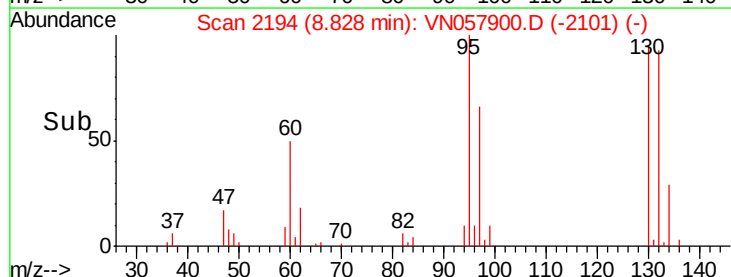
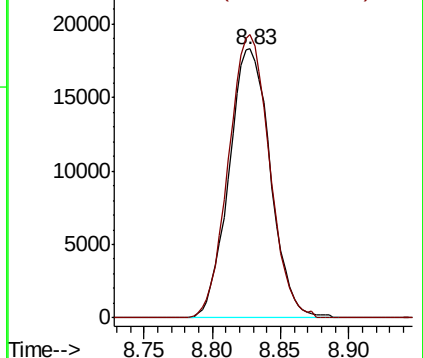
130 100

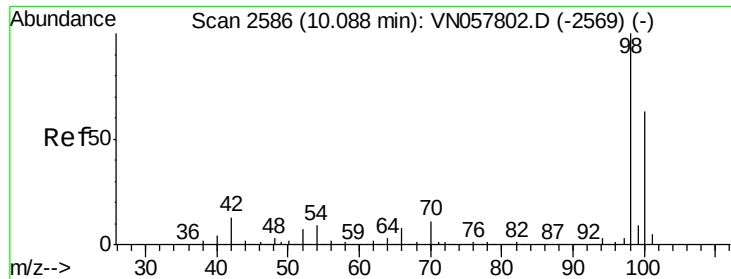
95 105.3 0.0 211.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

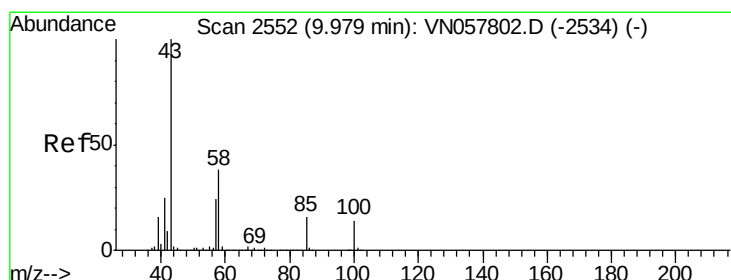
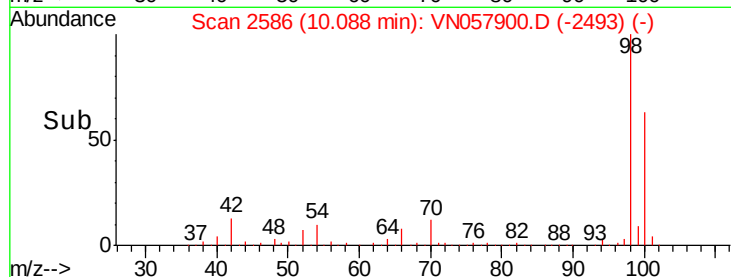
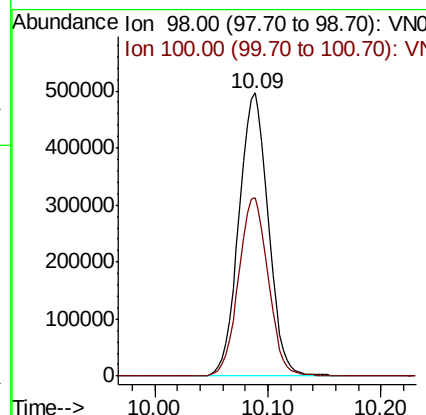
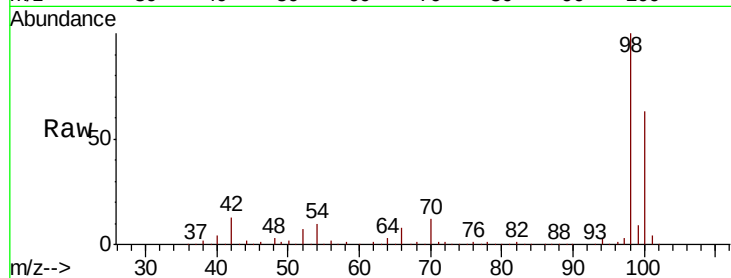




#50
Toluene-d8
Concen: 51.475 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057900.D
Acq: 11 Sep 2019 5:54

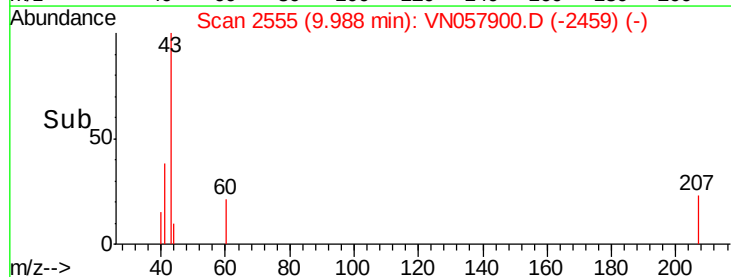
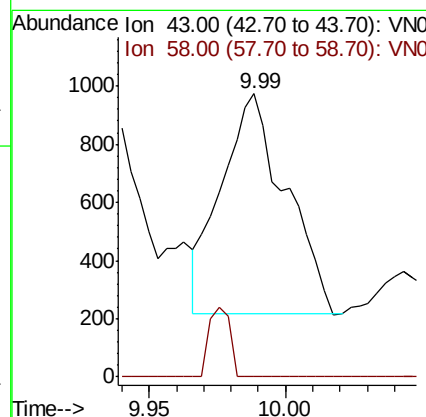
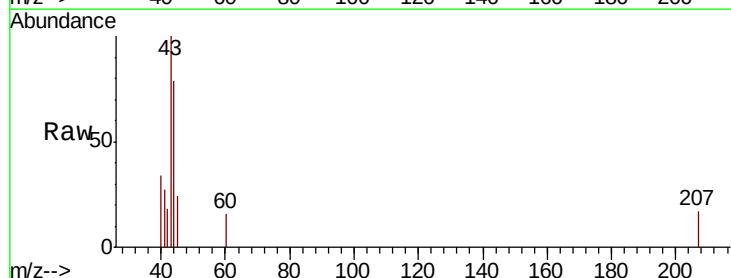
Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-47.0-52.0-091019

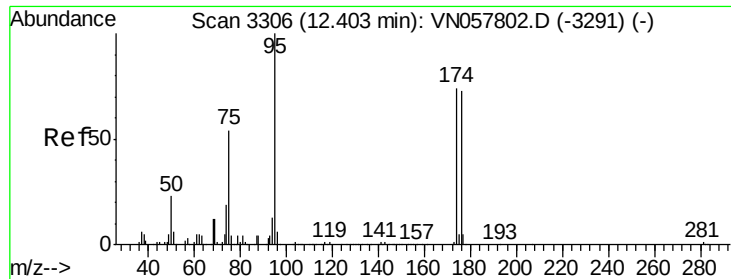
Tgt Ion: 98 Resp: 899827
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 0.213 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VN057900.D
Acq: 11 Sep 2019 5:54

Tgt Ion: 43 Resp: 1240
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 43.860 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019

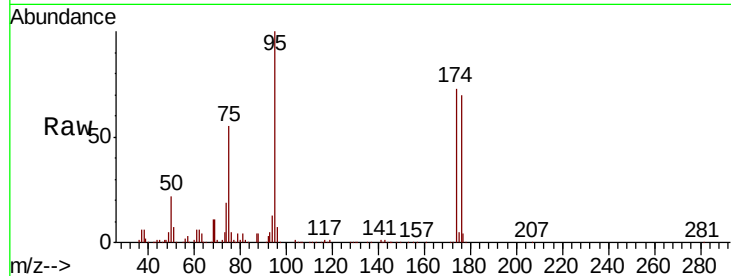
Tgt Ion: 95 Resp: 292185

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

176 72.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

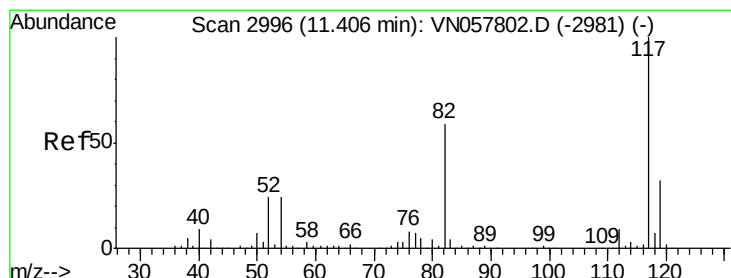
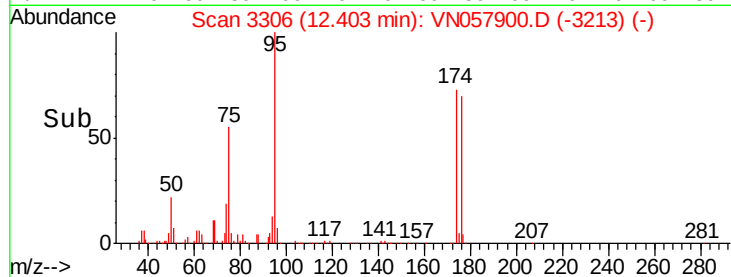
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

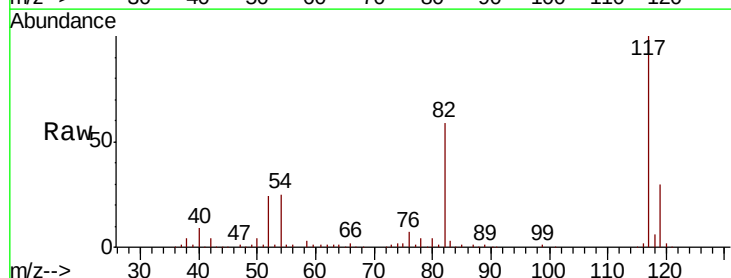
Tgt Ion: 117 Resp: 439931

Ion Ratio Lower Upper

117 100

82 59.3 47.2 70.8

119 29.9 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

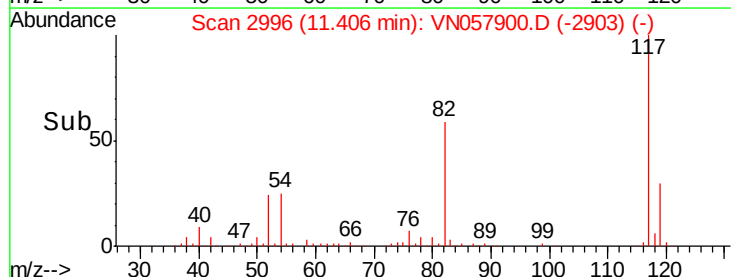
300000

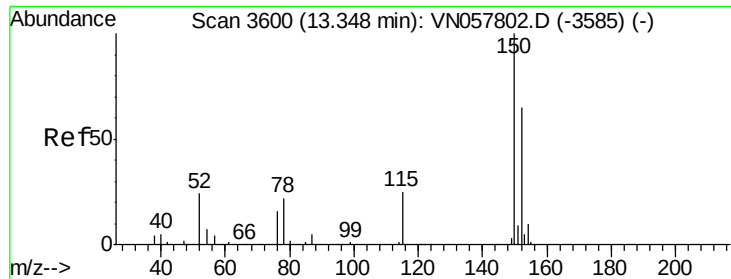
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057900.D

Acq: 11 Sep 2019 5:54

Instrument :

MSVOA_N

ClientSampleId :

GW200A-B4-47.0-52.0-091019

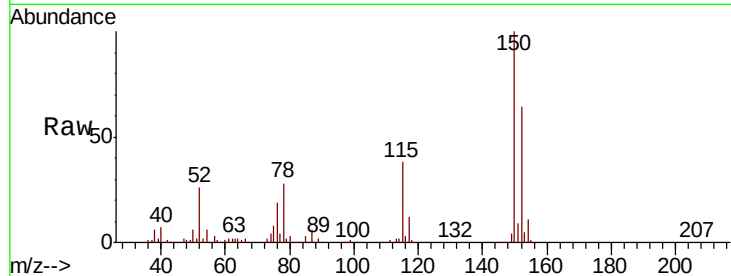
Tgt Ion:152 Resp: 222077

Ion Ratio Lower Upper

152 100

115 60.3 30.3 91.0

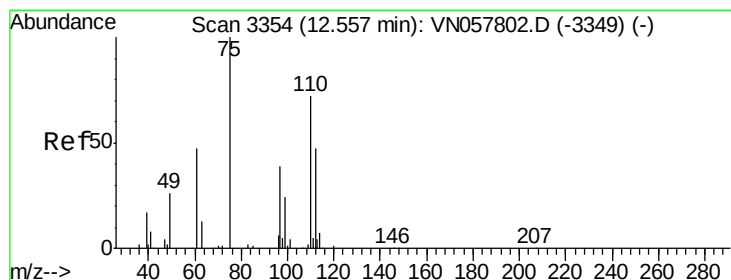
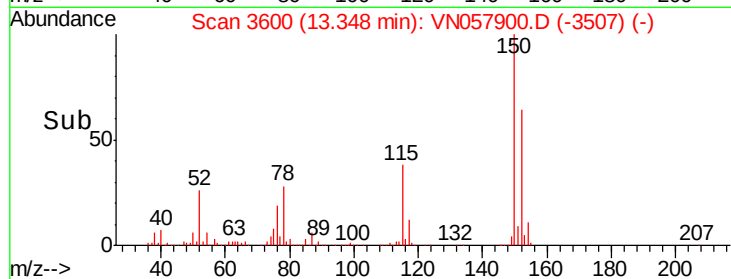
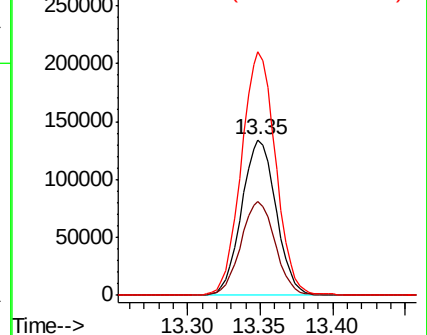
150 156.0 0.0 352.4



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: 32.032 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057900.D

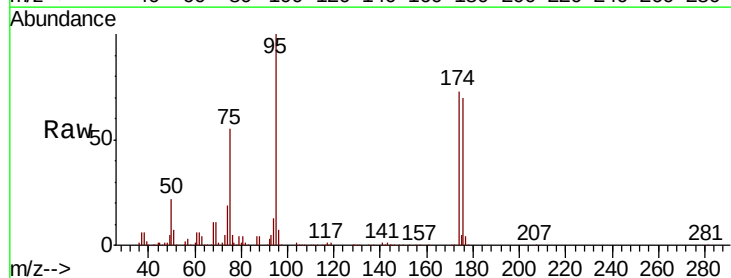
Acq: 11 Sep 2019 5:54

Tgt Ion: 75 Resp: 160919

Ion Ratio Lower Upper

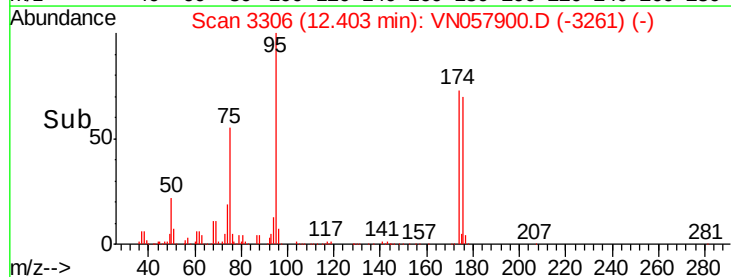
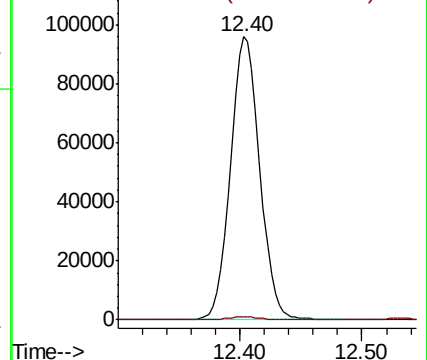
75 100

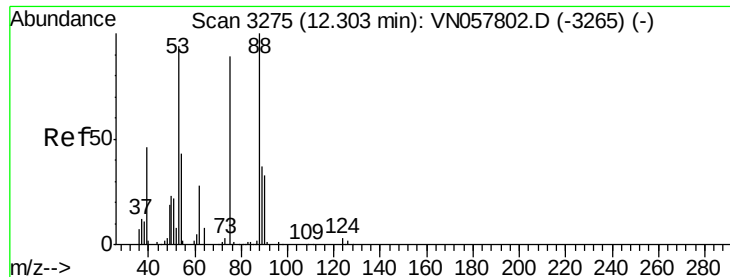
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

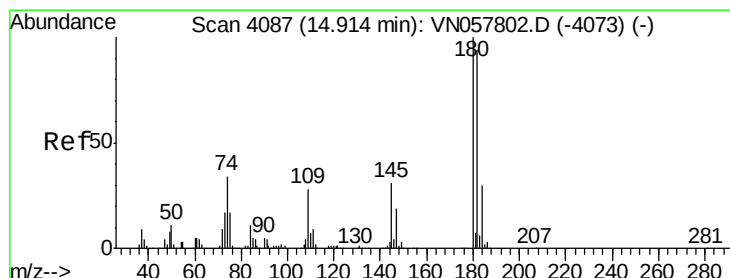
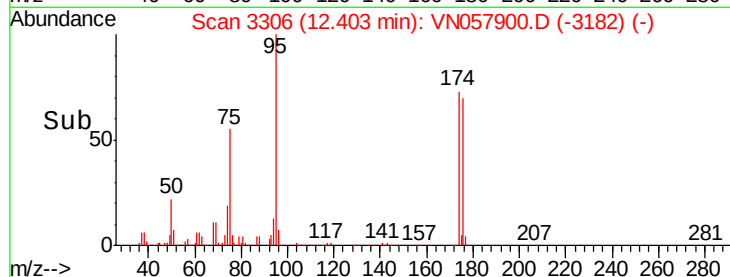
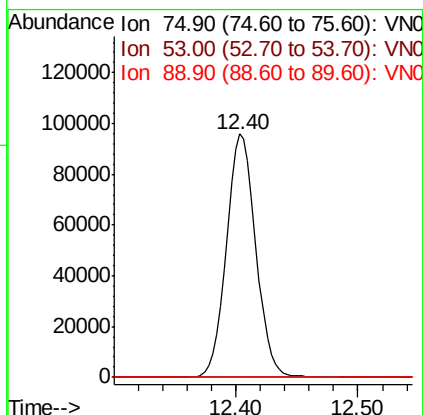
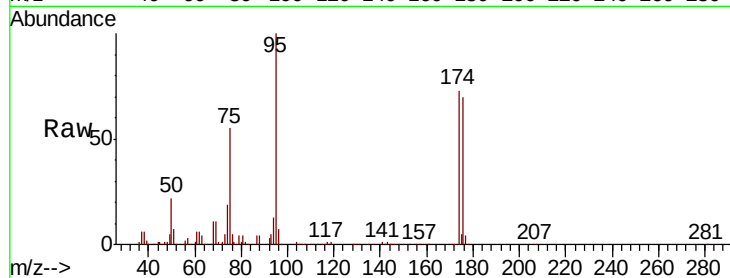




#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.720 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057900.D
 Acq: 11 Sep 2019 5:54

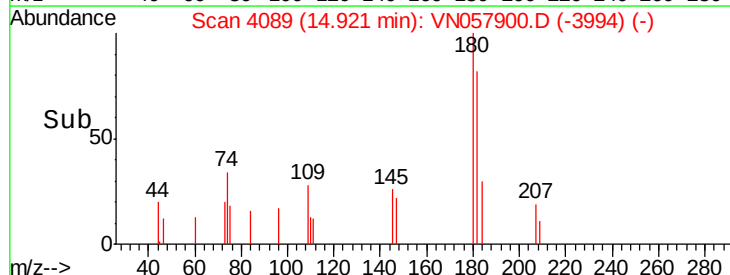
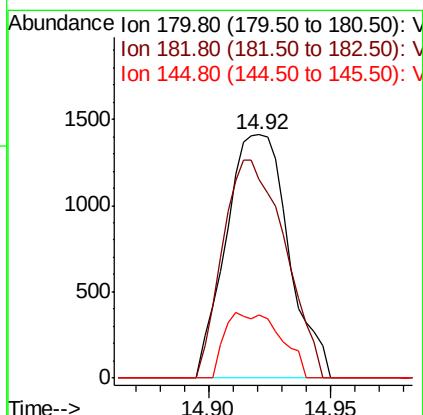
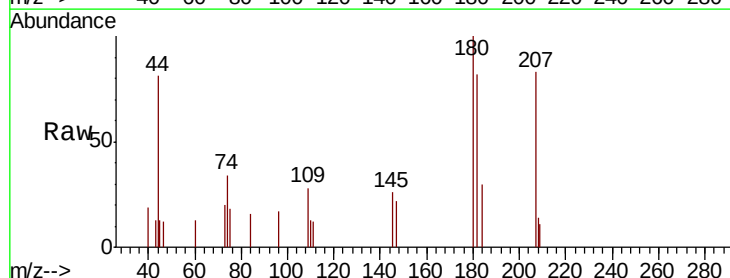
Instrument :
 MSVOA_N
 ClientSampleId :
 GW200A-B4-47.0-52.0-091019

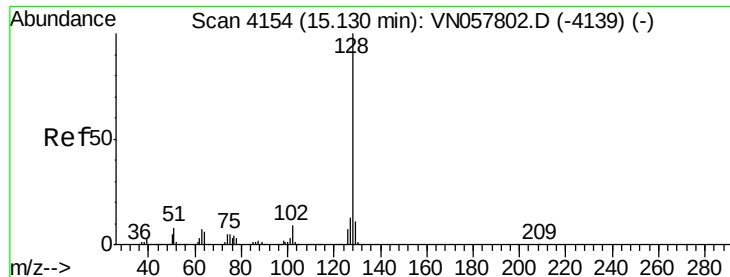
Tgt Ion: 75 Resp: 160919
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.486 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057900.D
 Acq: 11 Sep 2019 5:54

Tgt Ion: 180 Resp: 2505
 Ion Ratio Lower Upper
 180 100
 182 89.4 46.9 140.8
 145 24.1 14.9 44.7

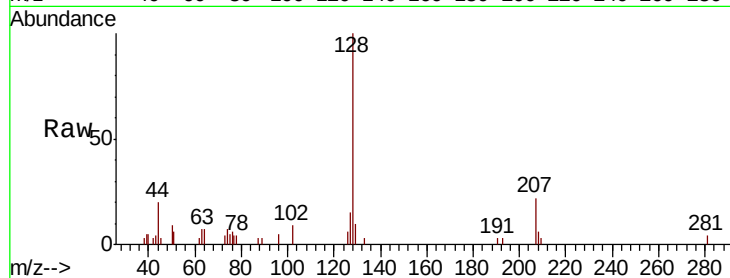




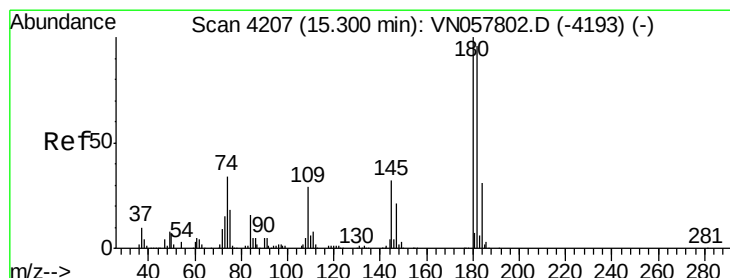
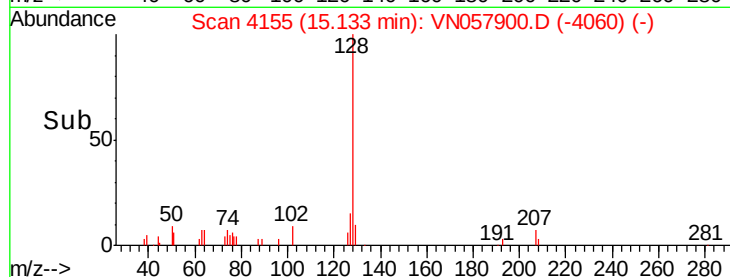
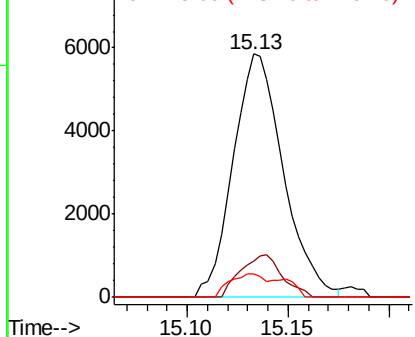
#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN057900.D
Acq: 11 Sep 2019 5:54

Instrument :
MSVOA_N
ClientSampleId :
GW200A-B4-47.0-52.0-091019

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.3	15.5
129	7.5	8.6	12.8#

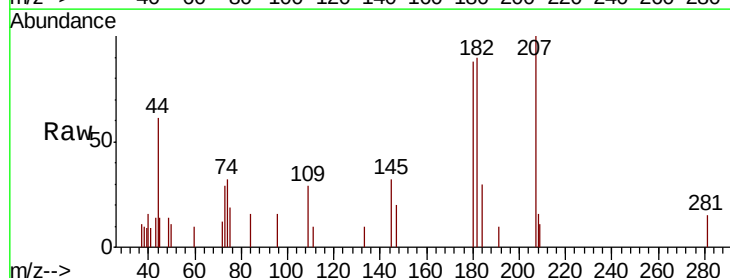


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.665 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. 0.00 min
Lab File: VN057900.D
Acq: 11 Sep 2019 5:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	48.3	144.8
145	27.8	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

