

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121119\
 Data File : VN059565.D
 Acq On : 11 Dec 2019 16:36
 Operator : JC/SP
 Sample : K5664-04 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

Quant Time: Dec 12 00:53:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	242189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	387802	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	345797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137609	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	170715	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
35) Dibromofluoromethane	7.57	113	121297	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
50) Toluene-d8	10.08	98	482593	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
62) 4-Bromofluorobenzene	12.40	95	155365	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

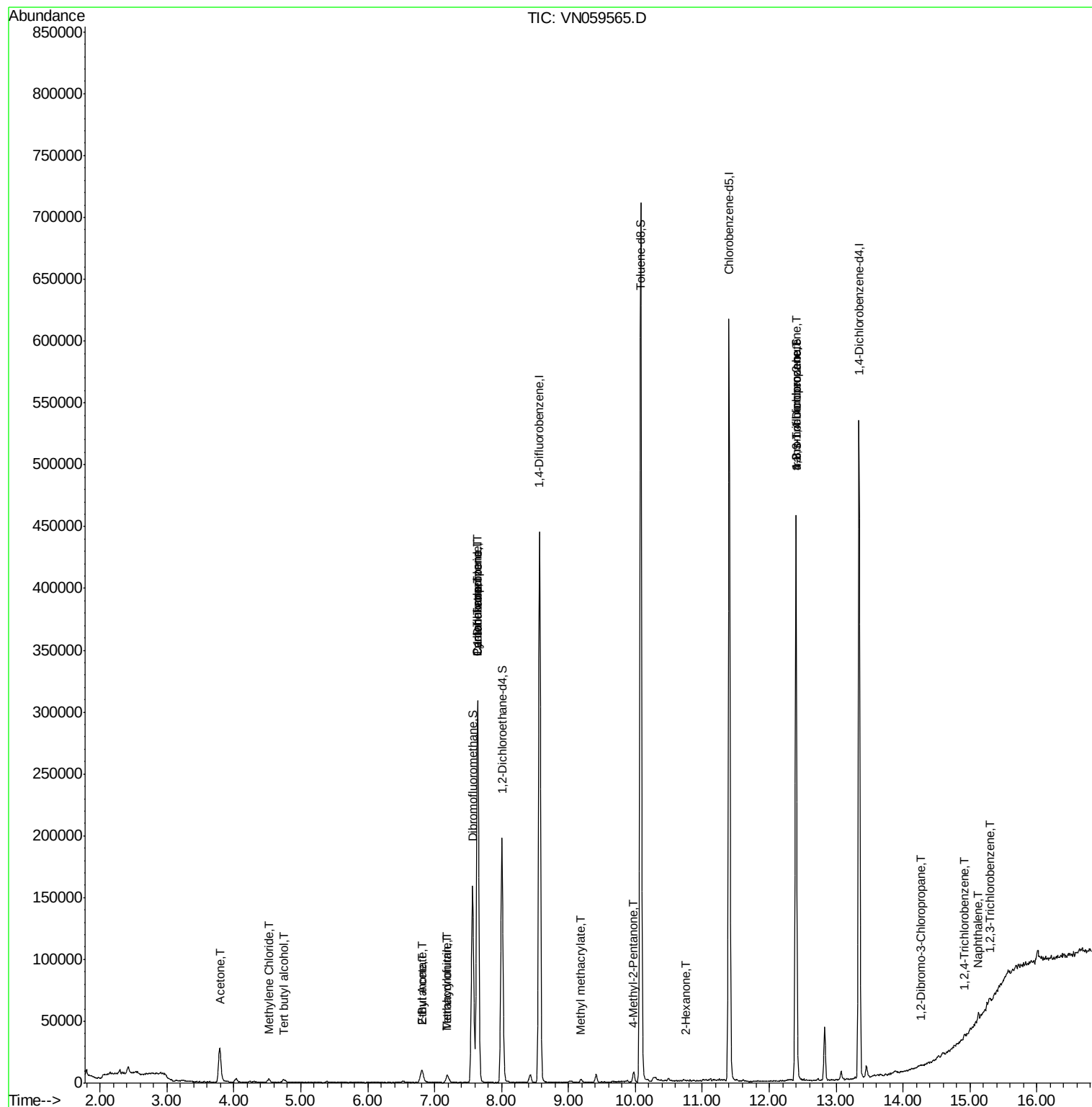
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	3993	7.131	ug/l #	71
16) Acetone	3.79	43	47591	30.098	ug/l	97
17) Carbon Disulfide	4.03	76	3242	Below Cal	#	74
20) Methylene Chloride	4.52	84	2096	0.464	ug/l	86
25) 2-Butanone	6.81	43	17934	8.426	ug/l	93
29) Tetrahydrofuran	7.18	42	5566	3.760	ug/l #	80
31) Cyclohexane	7.64	56	5805	1.138	ug/l #	11
36) 1,1-Dichloropropene	7.64	75	20139	5.062	ug/l #	51
37) Ethyl Acetate	6.81	43	17934	5.284	ug/l #	69
38) Carbon Tetrachloride	7.64	117	25201	6.426	ug/l #	16
41) Methacrylonitrile	7.18	41	1828	0.945	ug/l #	100
48) Methyl methacrylate	9.19	41	867	0.289	ug/l #	87
51) 4-Methyl-2-Pentanone	9.97	43	6126	0.595	ug/l	98
59) 2-Hexanone	10.75	43	272	2.295	ug/l	79
76) 1,2,3-Trichloropropane	12.40	75	84952	24.141	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84952	64.951	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.27	75	397	2.555	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	771	0.251	ug/l	86
95) Naphthalene	15.13	128	3958	0.441	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.29	180	959	2.715	ug/l	97

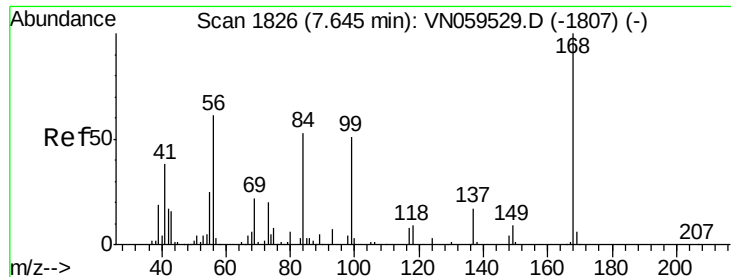
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 00:53:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

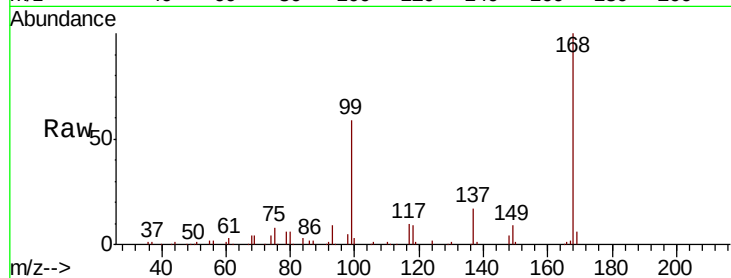
02-03-08-09-10-11-12-COMP

Tot Ion:168 Resp: 242189

Ion Ratio Lower Upper

168 100

99 58.8 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

120000

100000

80000

60000

40000

20000

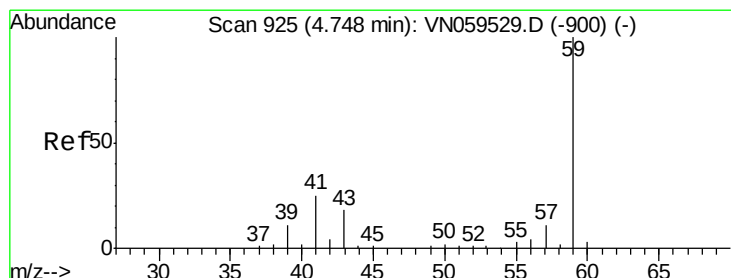
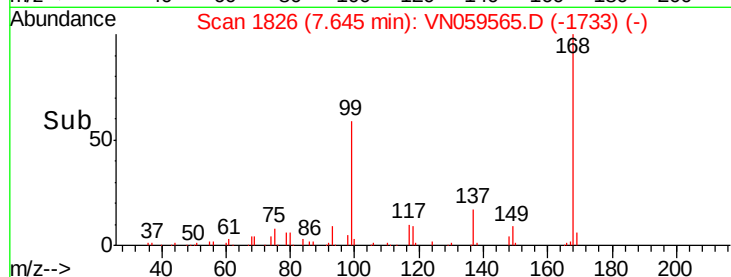
0

7.60

7.64

7.70

Time-->



#11

Tert butyl alcohol

Concen: 7.131 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.01 min

Lab File: VN059565.D

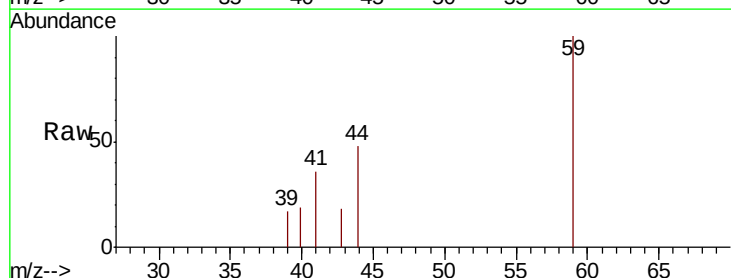
Acq: 11 Dec 2019 16:36

Tgt Ion: 59 Resp: 3993

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

1000

500

0

4.65

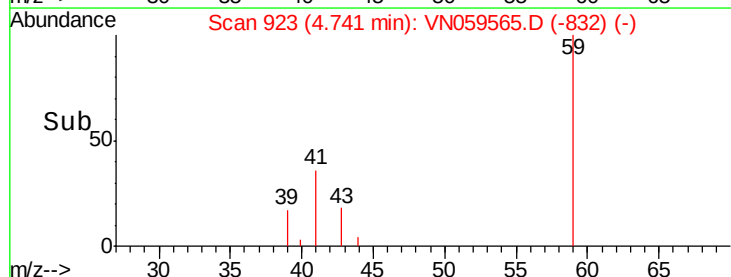
4.70

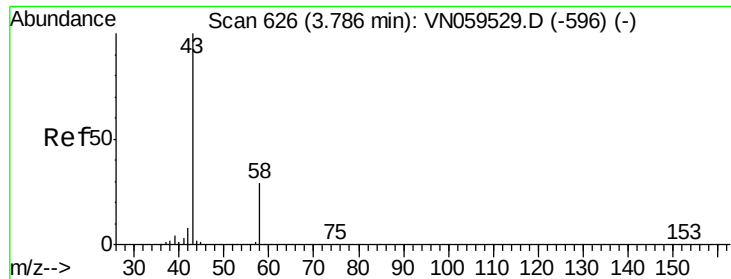
4.74

4.80

4.85

Time-->





#16

Acetone

Concen: 30.098 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

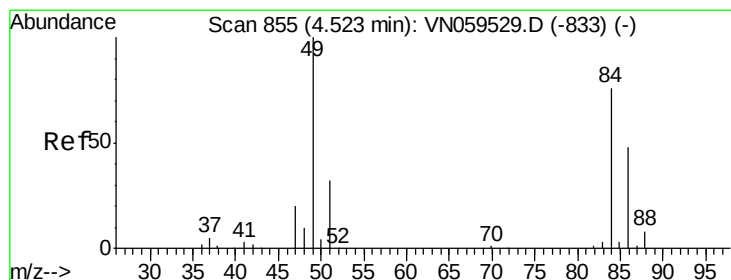
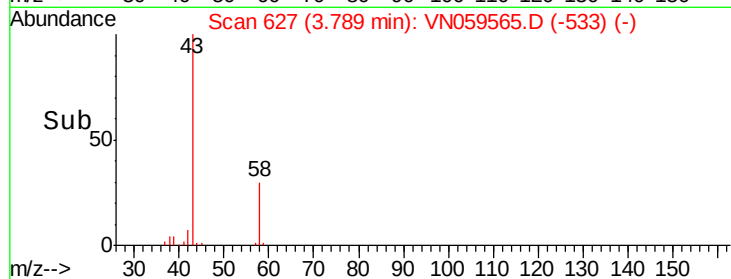
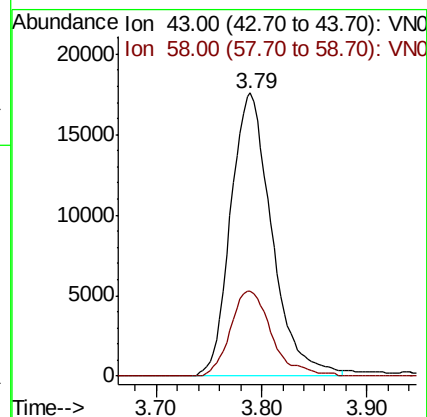
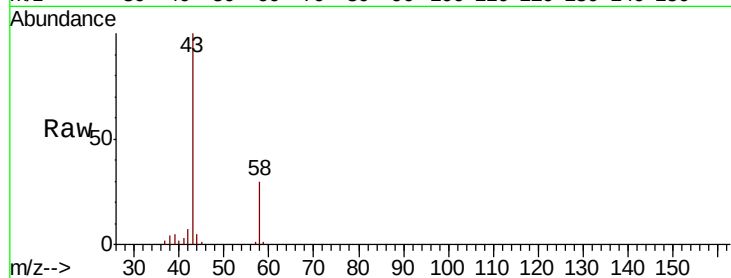
02-03-08-09-10-11-12-COMP

Tot Ion: 43 Resp: 47591

Ion Ratio Lower Upper

43 100

58 30.1 23.0 34.4



#20

Methylene Chloride

Concen: 0.464 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

Tgt Ion: 84 Resp: 2096

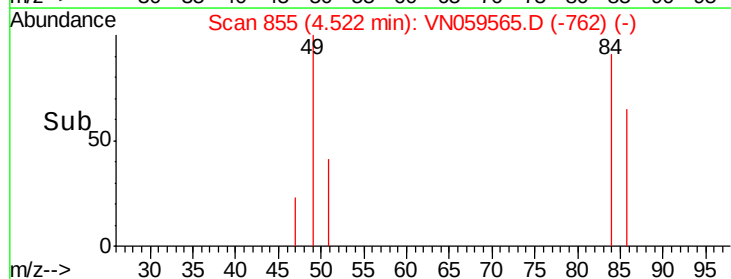
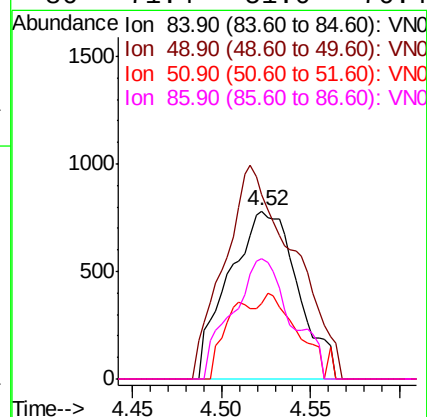
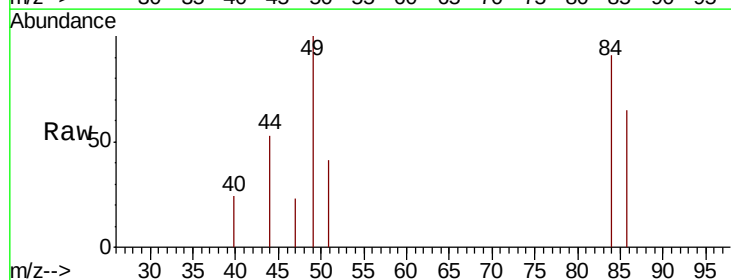
Ion Ratio Lower Upper

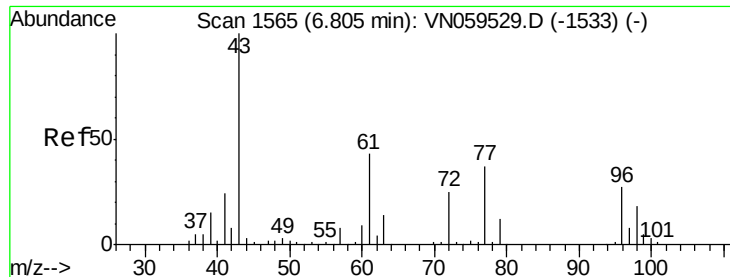
84 100

49 109.9 105.8 158.8

51 45.2 33.7 50.5

86 71.4 51.0 76.4

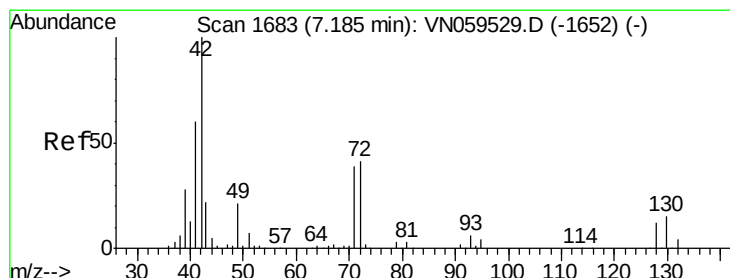
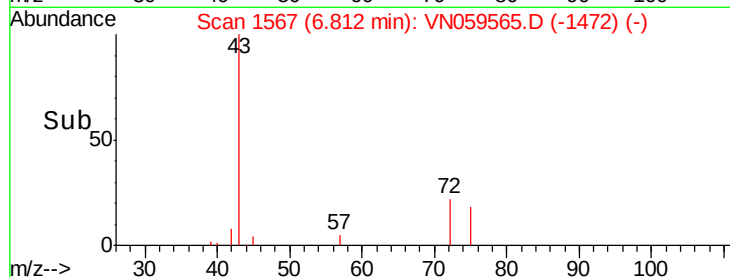
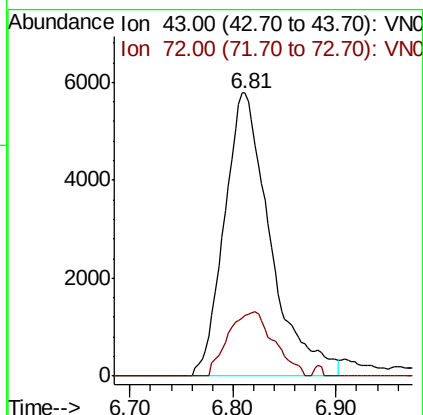
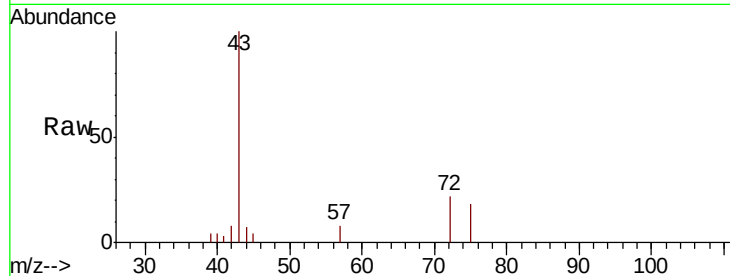




#25
2-Butanone
Concen: 8.426 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

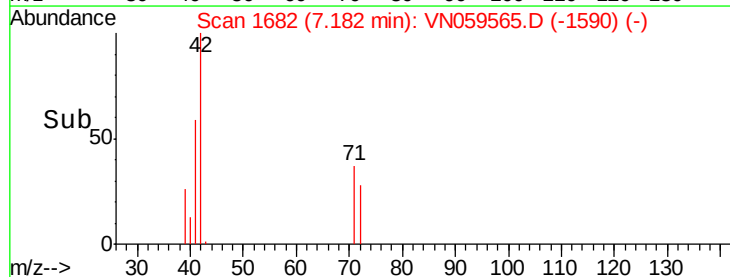
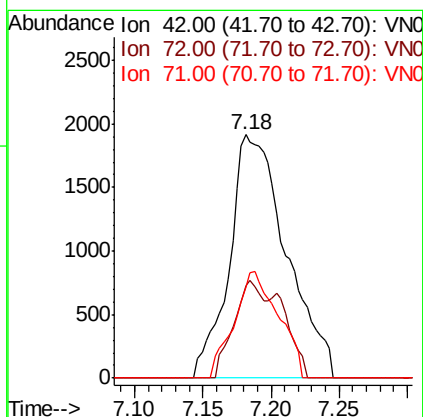
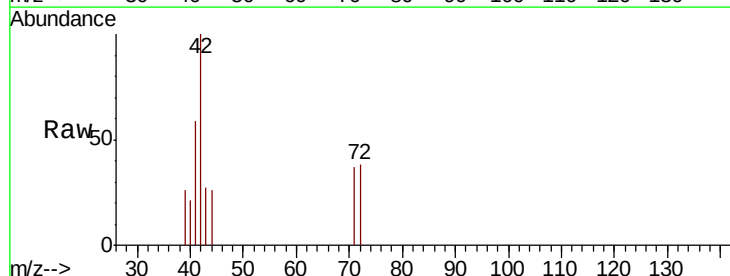
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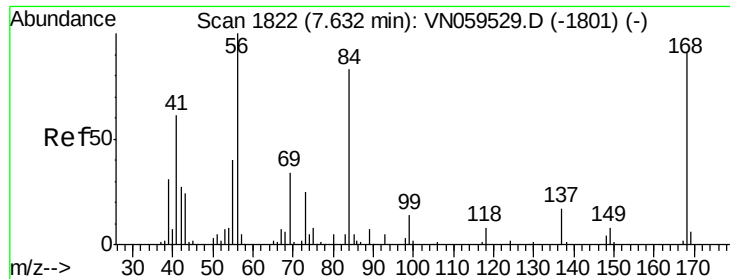
Tot Ion: 43 Resp: 17934
Ion Ratio Lower Upper
43 100
72 21.5 19.9 29.9



#29
Tetrahydrofuran
Concen: 3.760 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Tgt Ion: 42 Resp: 5566
Ion Ratio Lower Upper
42 100
72 22.0 32.7 49.1#
71 33.9 31.4 47.2

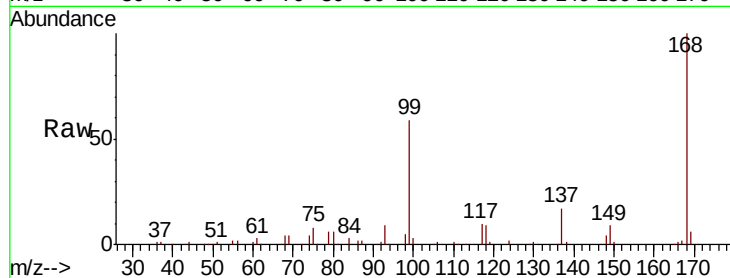




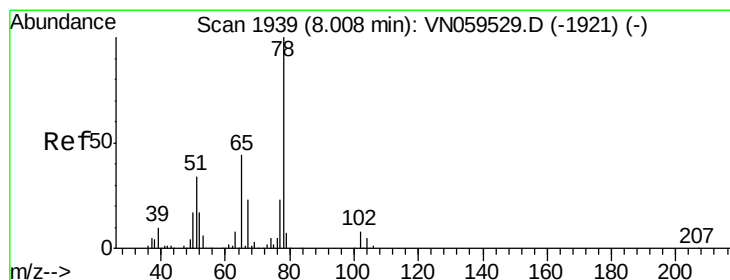
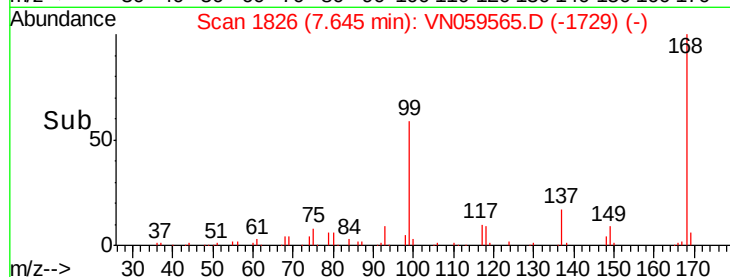
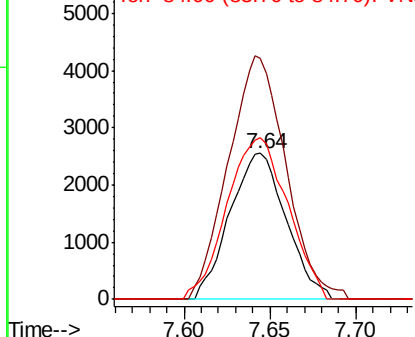
#31
Cyclohexane
Concen: 1.138 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion: 56 Resp: 5805
Ion Ratio Lower Upper
56 100
69 164.9 26.9 40.3#
84 111.2 66.5 99.7#

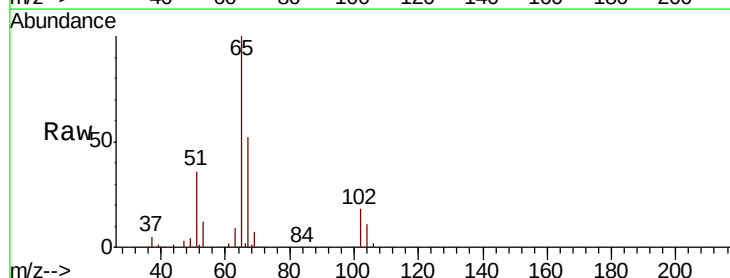


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

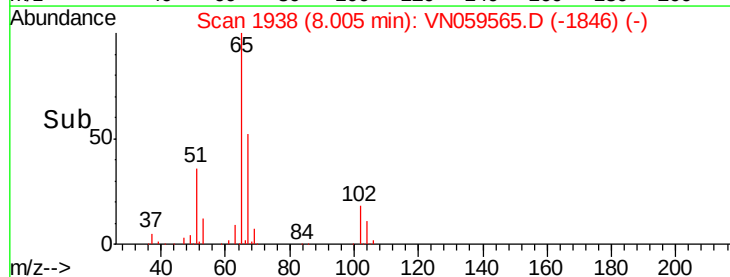
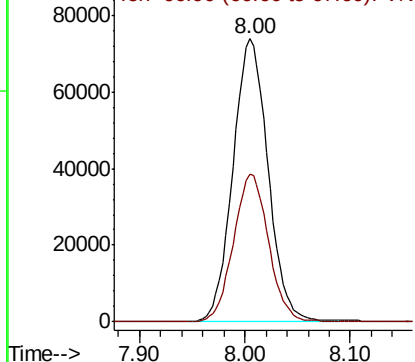


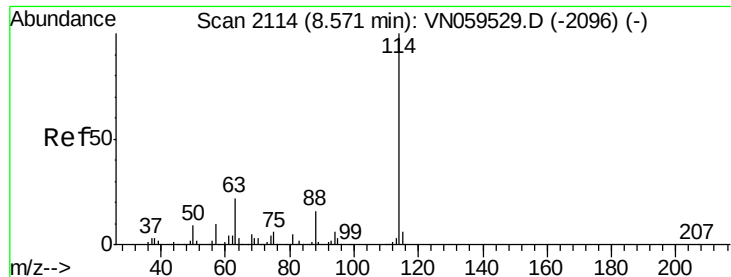
#33
1,2-Dichloroethane-d4
Concen: 50.435 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Tgt Ion: 65 Resp: 170715
Ion Ratio Lower Upper
65 100
67 52.2 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

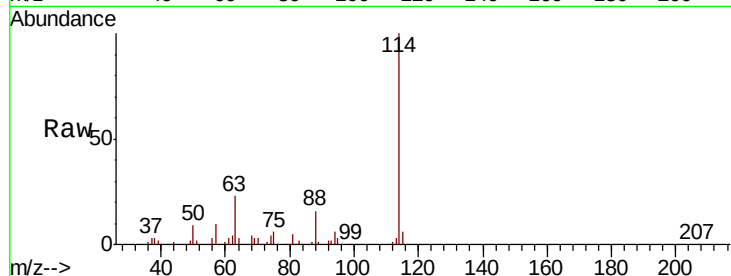




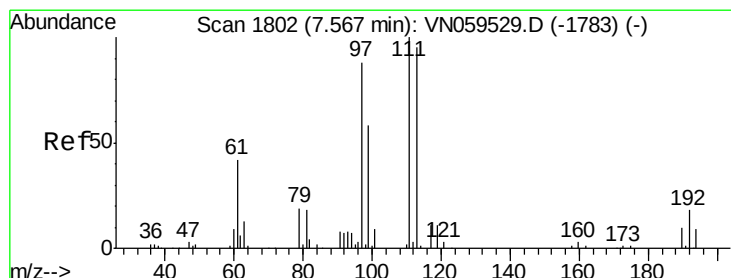
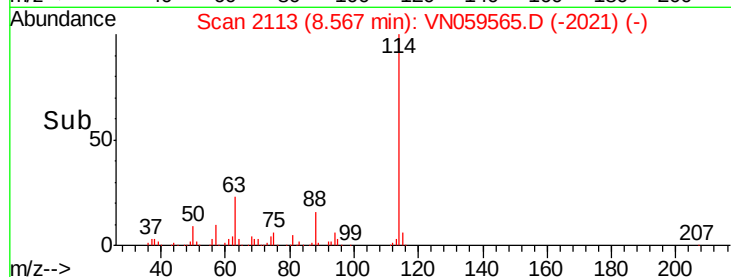
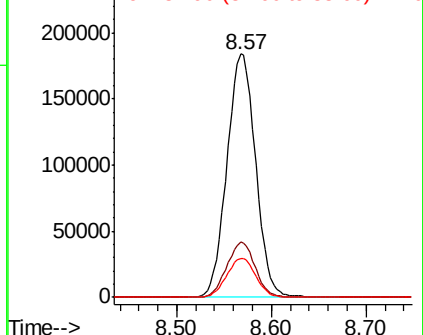
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059565.D
 Acq: 11 Dec 2019 16:36

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Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	45.0
88	16.0	0.0	32.2

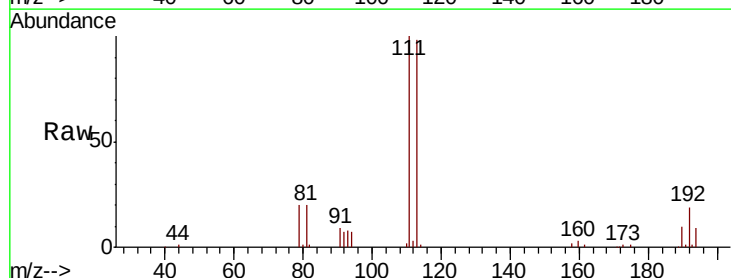


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

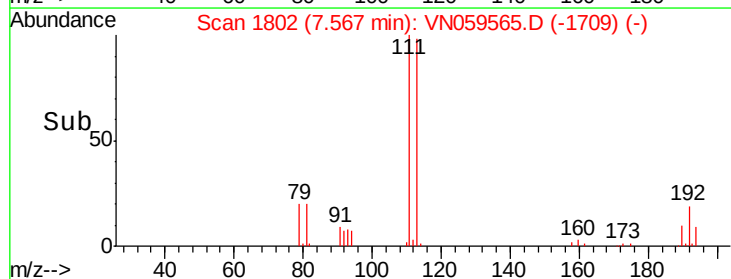
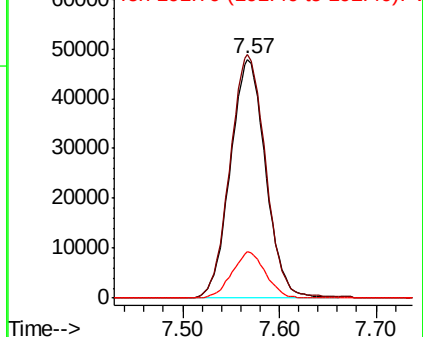


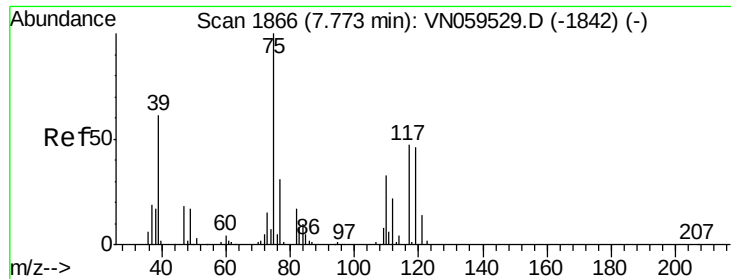
#35
 Dibromofluoromethane
 Concen: 52.415 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059565.D
 Acq: 11 Dec 2019 16:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	18.5	14.8	22.2



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

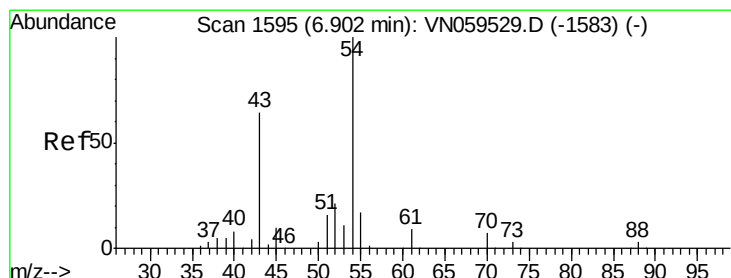
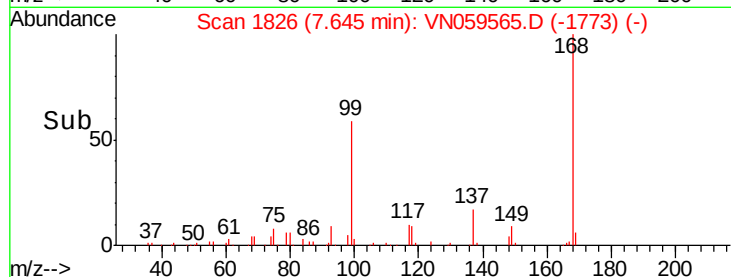
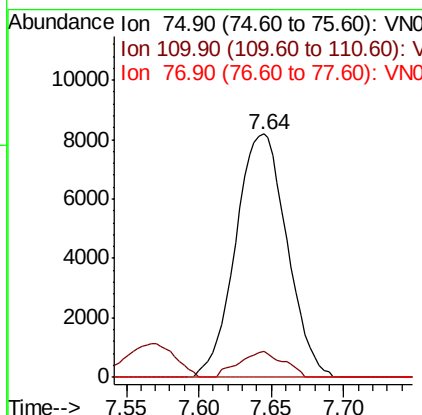
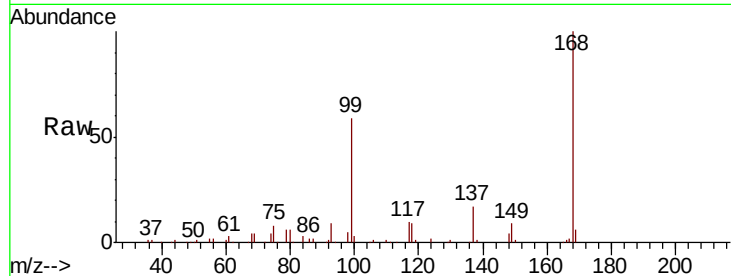




#36
 1,1-Dichloropropene
 Concen: 5.062 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059565.D
 Acq: 11 Dec 2019 16:36

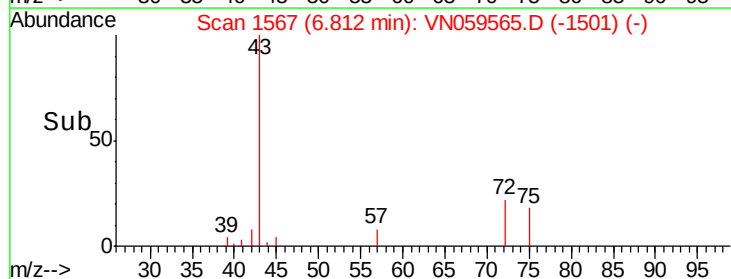
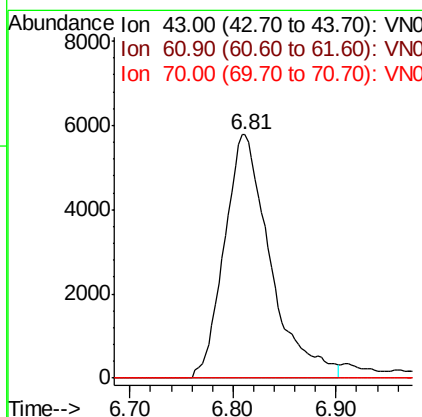
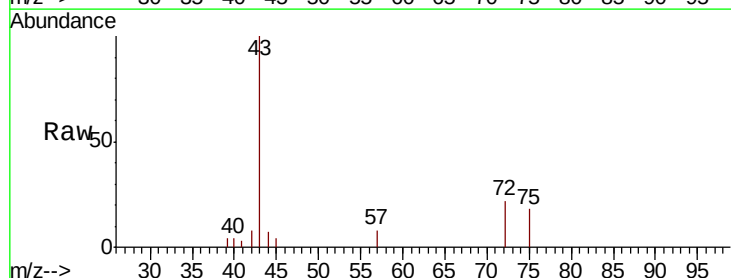
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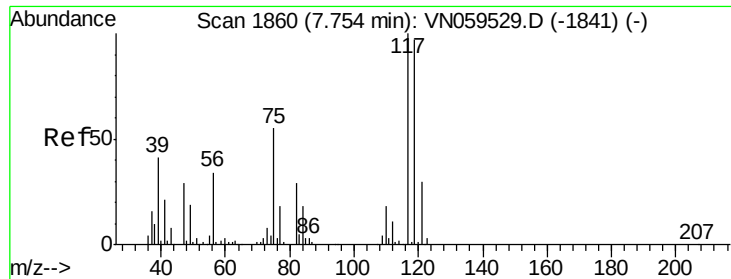
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.7	50.0#
77	0.0	24.6	37.0#



#37
 Ethyl Acetate
 Concen: 5.284 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.09 min
 Lab File: VN059565.D
 Acq: 11 Dec 2019 16:36

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6#
70	0.0	7.7	11.5#

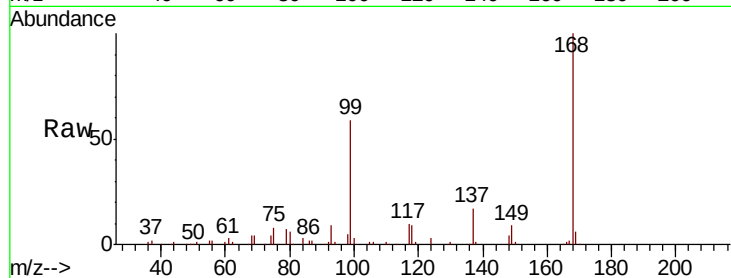




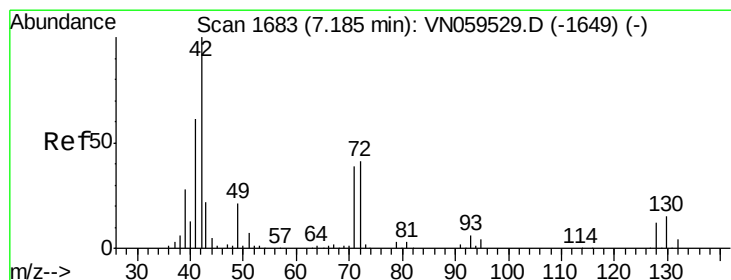
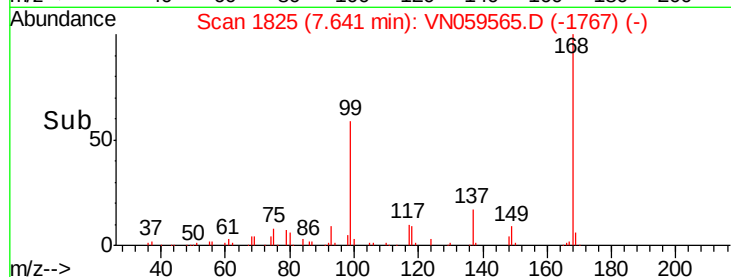
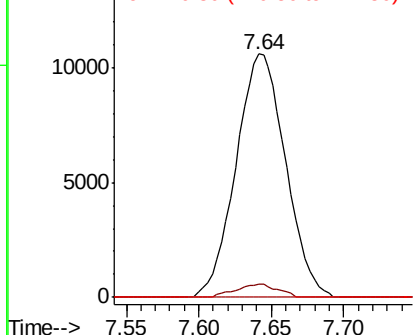
#38
Carbon Tetrachloride
Concen: 6.426 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion:117 Resp: 25201
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.4#
121 0.0 24.1 36.1#

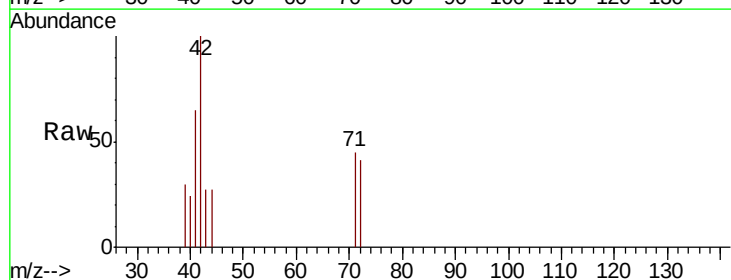


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

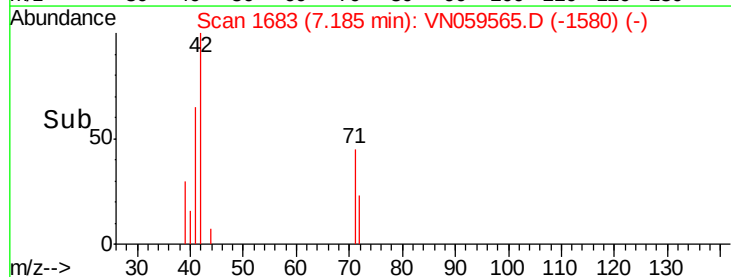
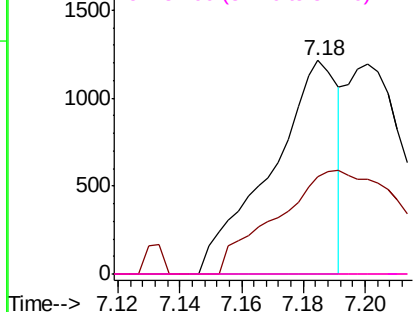


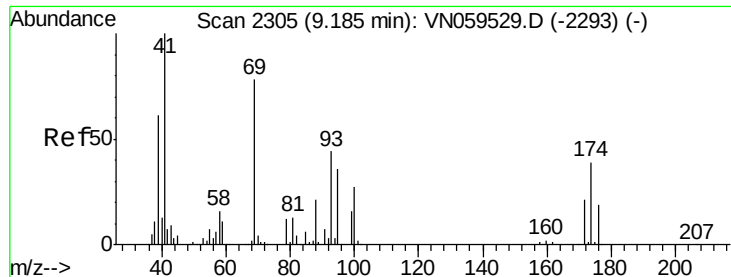
#41
Methacrylonitrile
Concen: 0.945 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.03 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Tgt Ion: 41 Resp: 1828
Ion Ratio Lower Upper
41 100
39 90.0 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V

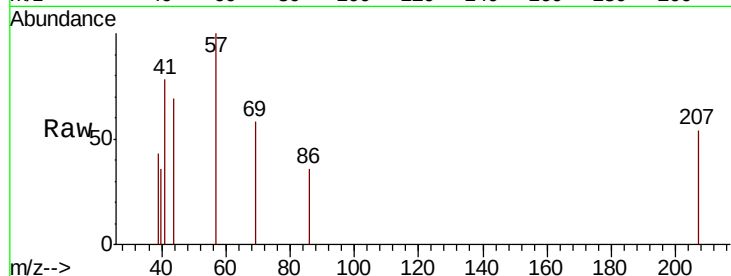




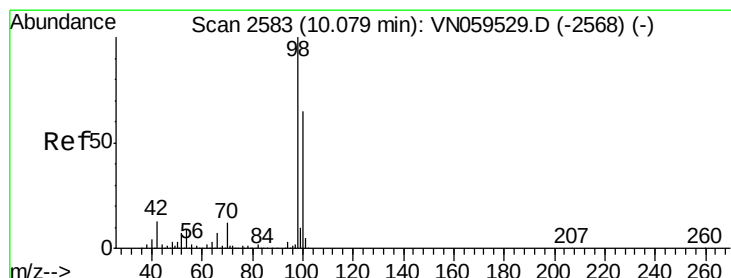
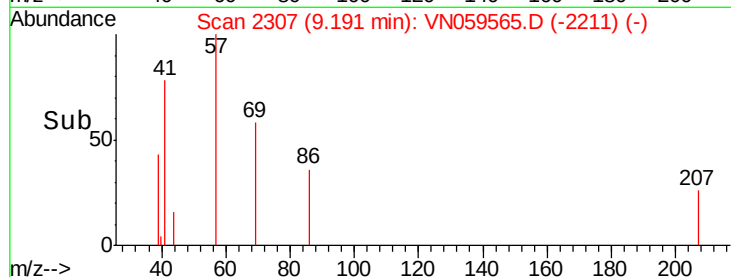
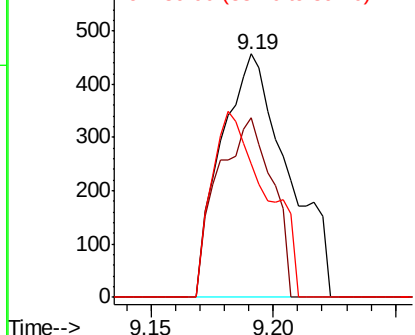
#48
Methvl methacrylate
Concen: 0.289 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.01 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion: 41 Resp: 867
Ion Ratio Lower Upper
41 100
69 60.0 64.0 96.0#
39 62.7 50.0 75.0

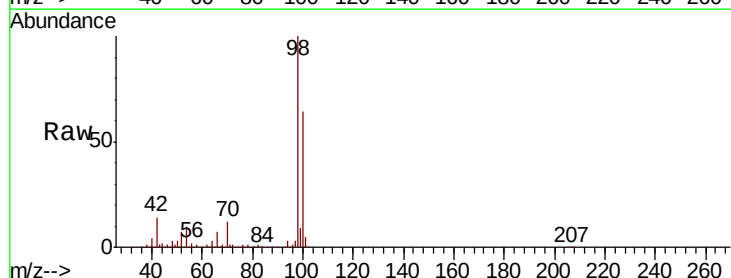


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

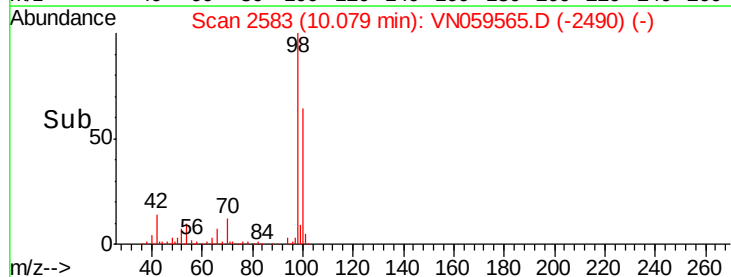
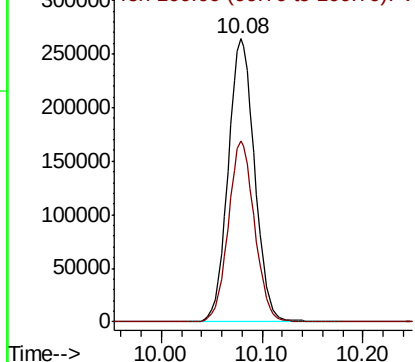


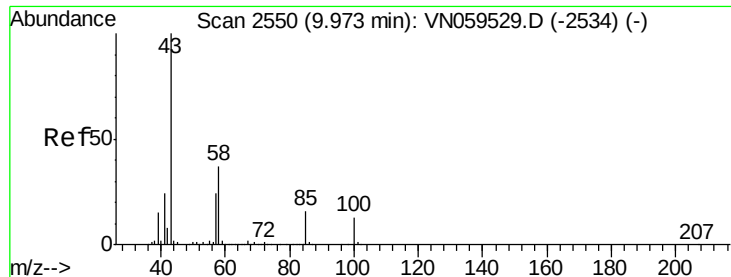
#50
Toluene-d8
Concen: 51.080 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Tgt Ion: 98 Resp: 482593
Ion Ratio Lower Upper
98 100
100 63.5 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

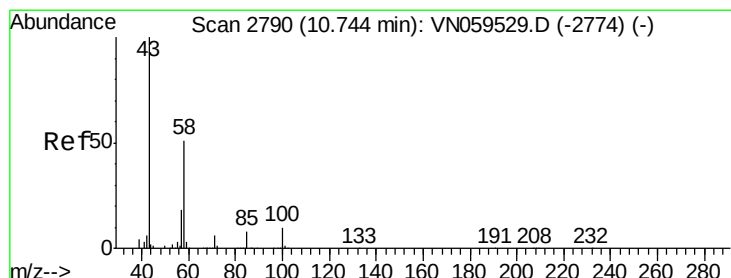
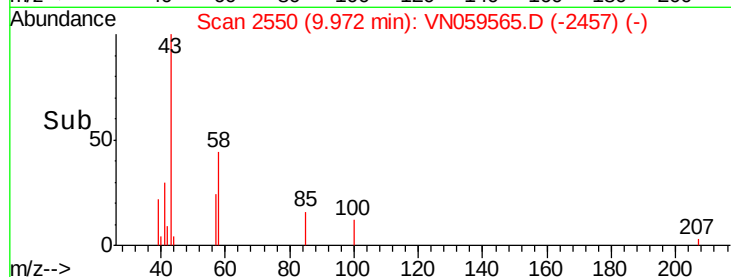
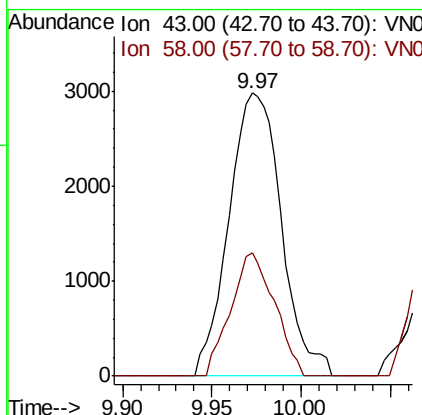
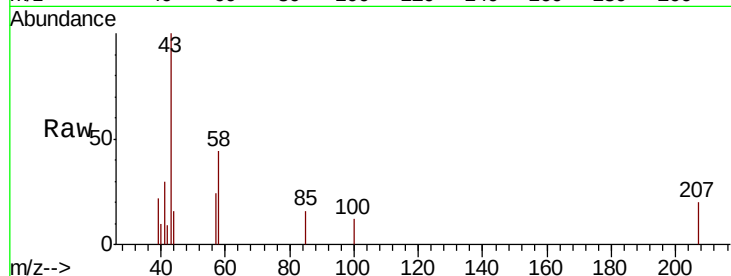




#51
4-Methyl-2-Pentanone
Concen: 0.595 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

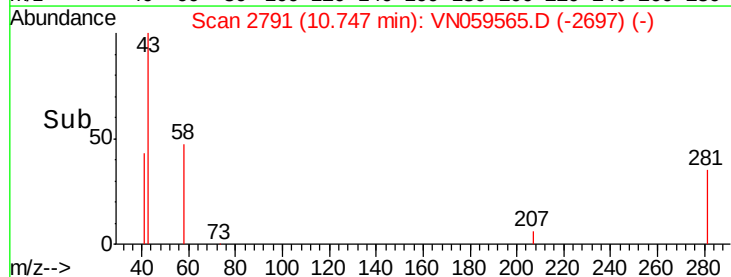
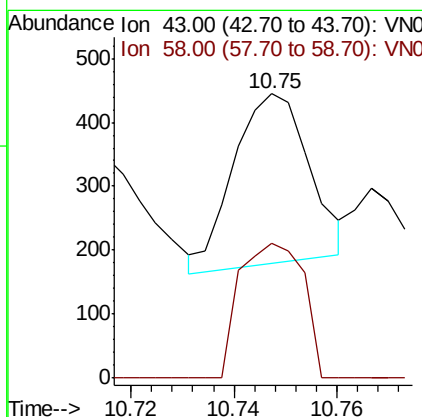
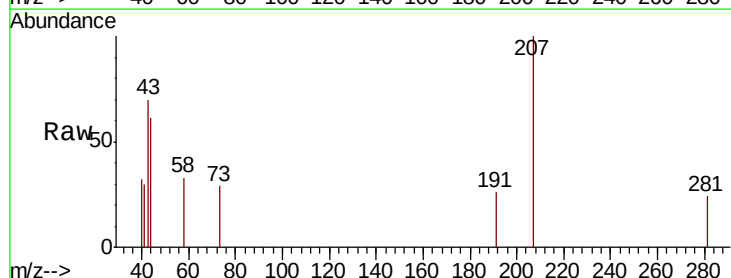
Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

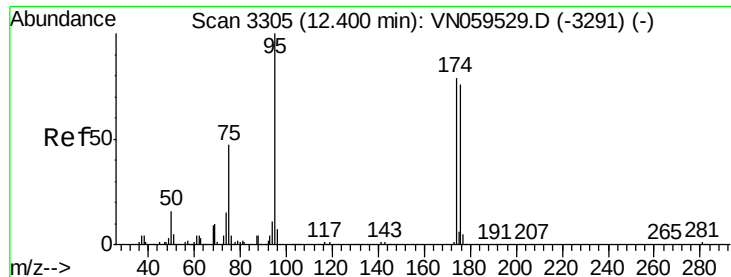
Tot Ion: 43 Resp: 6126
Ion Ratio Lower Upper
43 100
58 36.3 30.1 45.1



#59
2-Hexanone
Concen: 2.295 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Tgt Ion: 43 Resp: 272
Ion Ratio Lower Upper
43 100
58 66.2 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 44.425 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

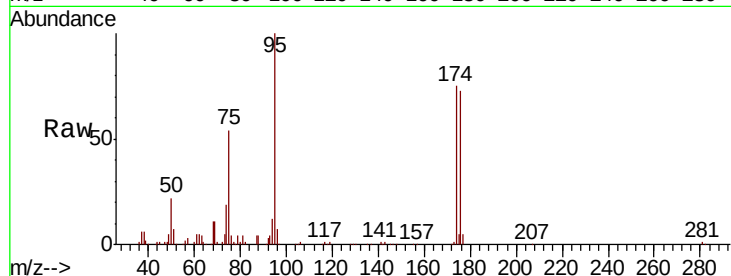
Tot Ion: 95 Resp: 155365

Ion Ratio Lower Upper

95 100

174 76.8 0.0 158.0

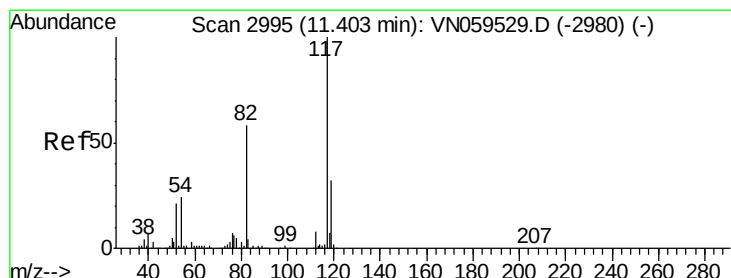
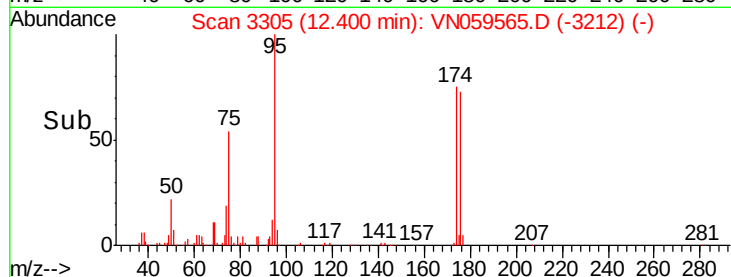
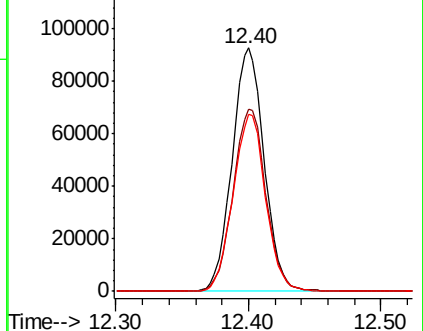
176 73.8 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VN059529.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059529.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059529.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

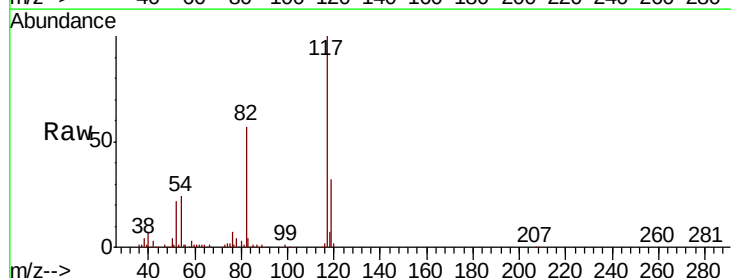
Tgt Ion: 117 Resp: 345797

Ion Ratio Lower Upper

117 100

82 57.2 46.5 69.7

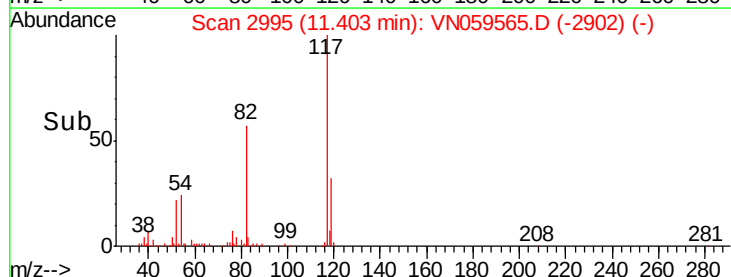
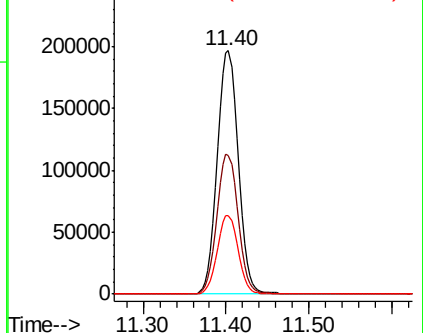
119 32.2 25.2 37.8

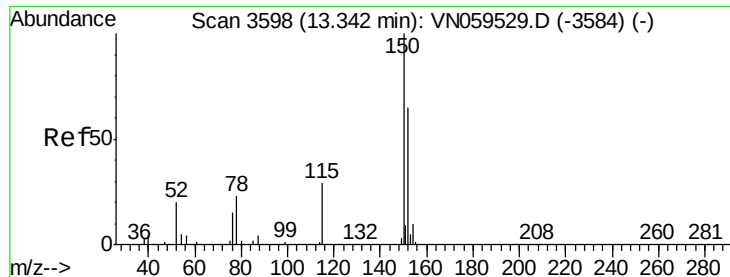


Abundance Ion 116.90 (116.60 to 117.60): VN059529.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN059529.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN059529.D (-2980) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

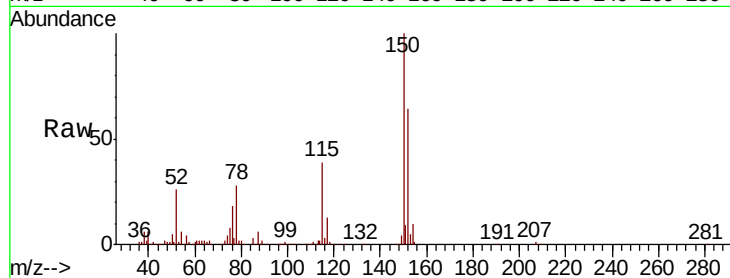
Tot Ion:152 Resp: 137609

Ion Ratio Lower Upper

152 100

115 60.7 29.4 88.2

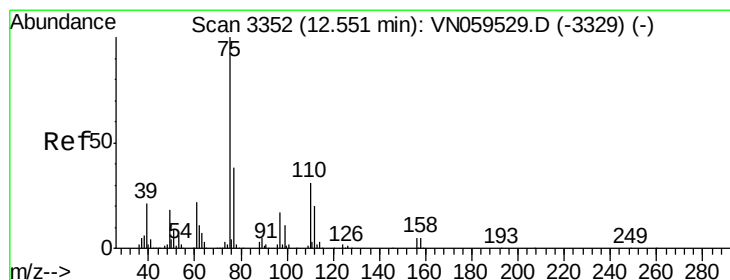
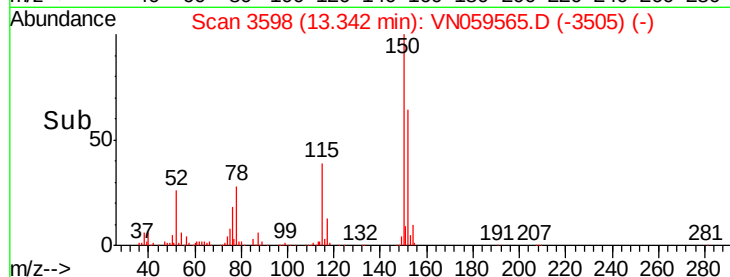
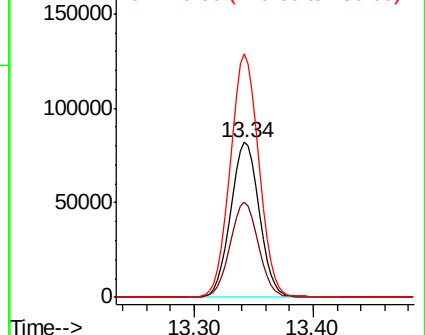
150 156.9 0.0 342.4



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: 24.141 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059565.D

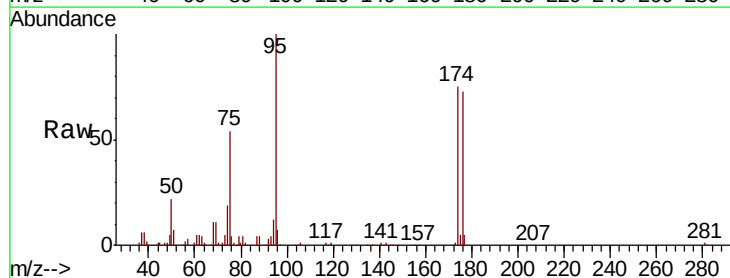
Acq: 11 Dec 2019 16:36

Tgt Ion: 75 Resp: 84952

Ion Ratio Lower Upper

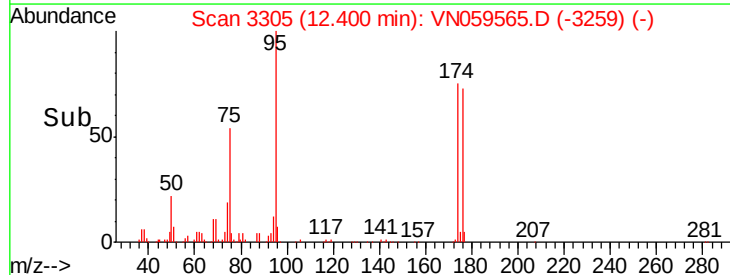
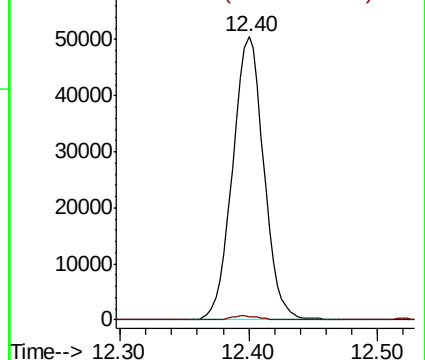
75 100

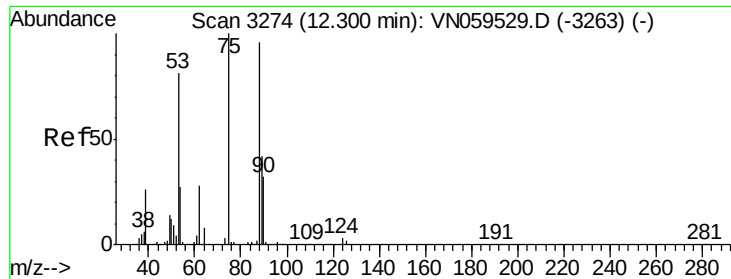
77 1.3 0.0 0.0#



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: 64.951 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

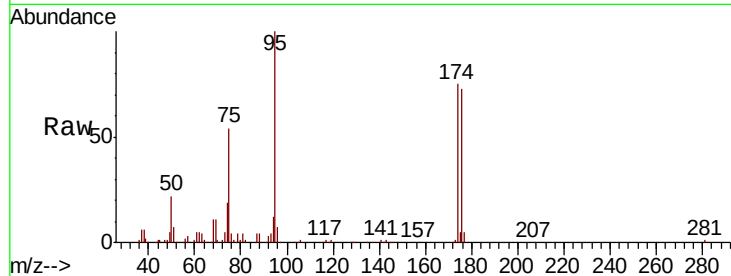
Tot Ion: 75 Resp: 84952

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

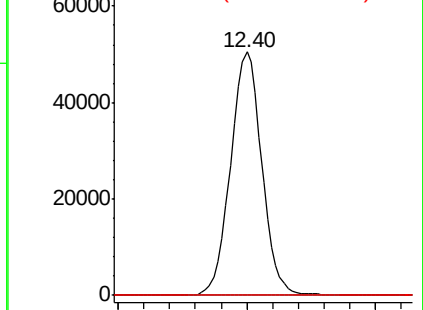
89 0.0 35.5 53.3#



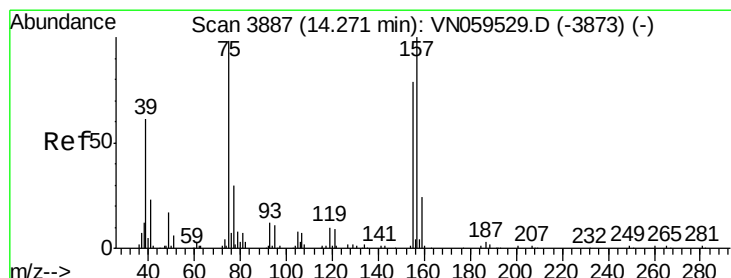
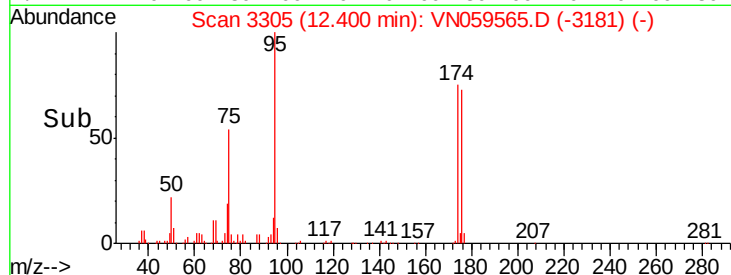
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.555 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN059565.D

Acq: 11 Dec 2019 16:36

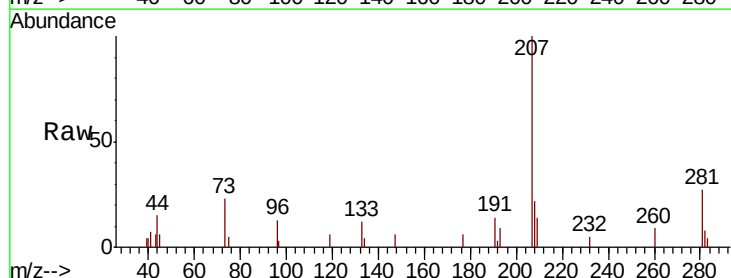
Tgt Ion: 75 Resp: 397

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

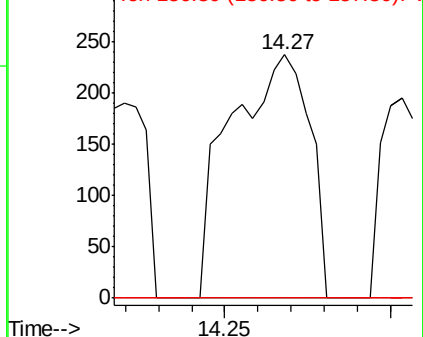
157 0.0 51.1 153.3#



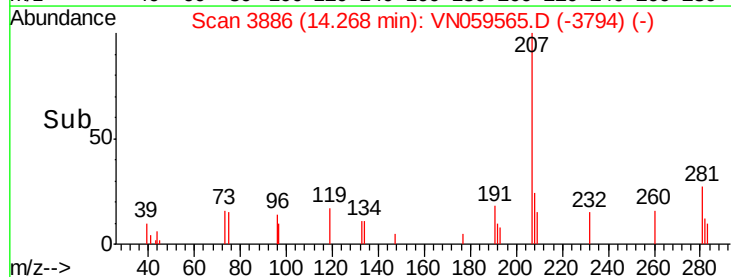
Abundance Ion 74.90 (74.60 to 75.60): VN0

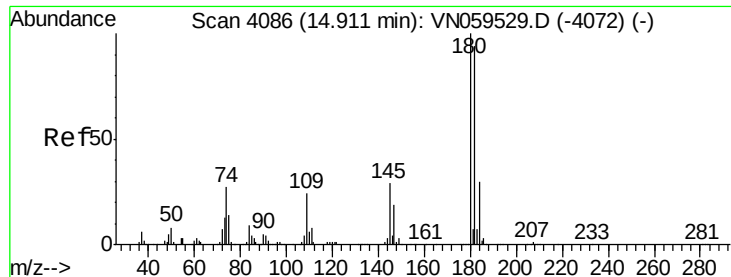
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time--> 14.25

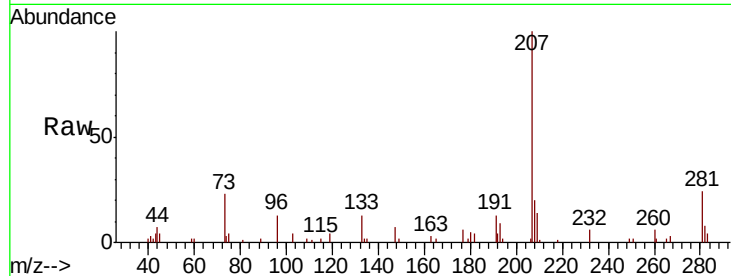




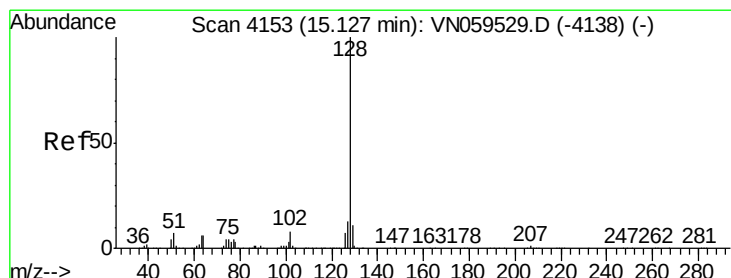
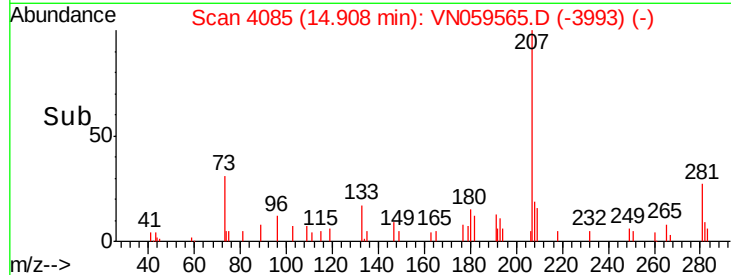
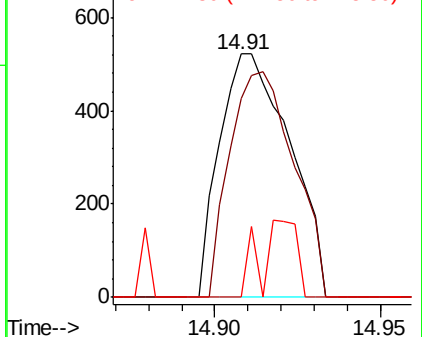
#93
1,2,4-Trichlorobenzene
Concen: 0.251 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. -0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

Tot Ion:180 Resp: 771
Ion Ratio Lower Upper
180 100
182 84.7 47.3 142.0
145 16.0 14.9 44.7

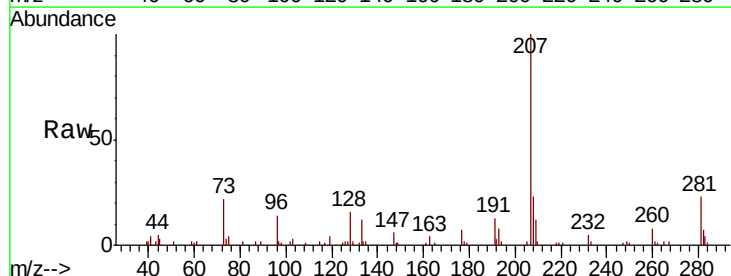


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

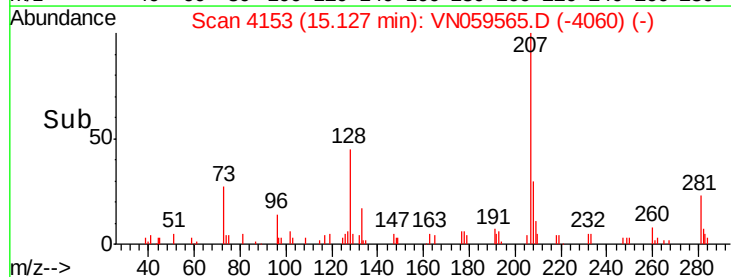
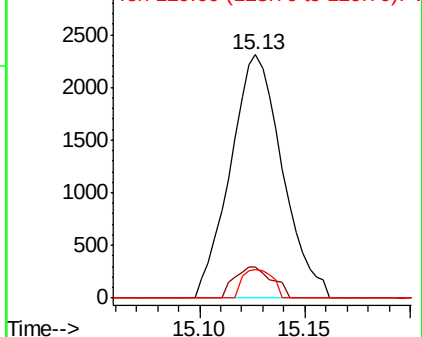


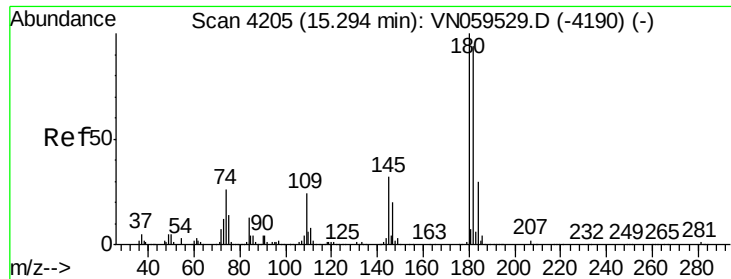
#95
Naphthalene
Concen: 0.441 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN059565.D
Acq: 11 Dec 2019 16:36

Tgt Ion:128 Resp: 3958
Ion Ratio Lower Upper
128 100
127 9.3 10.2 15.4#
129 6.8 8.6 13.0#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 2.715 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN059565.D
 Acq: 11 Dec 2019 16:36

Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.1	141.4
145	36.6	15.8	47.4

