

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060987.D
 Acq On : 16 Apr 2020 1:19
 Operator : JC/MD
 Sample : L2259-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:43:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	145173	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	245324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	231674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	106972	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	97154	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
35) Dibromofluoromethane	7.56	113	73485	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	10.08	98	309044	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.39	95	115904	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	

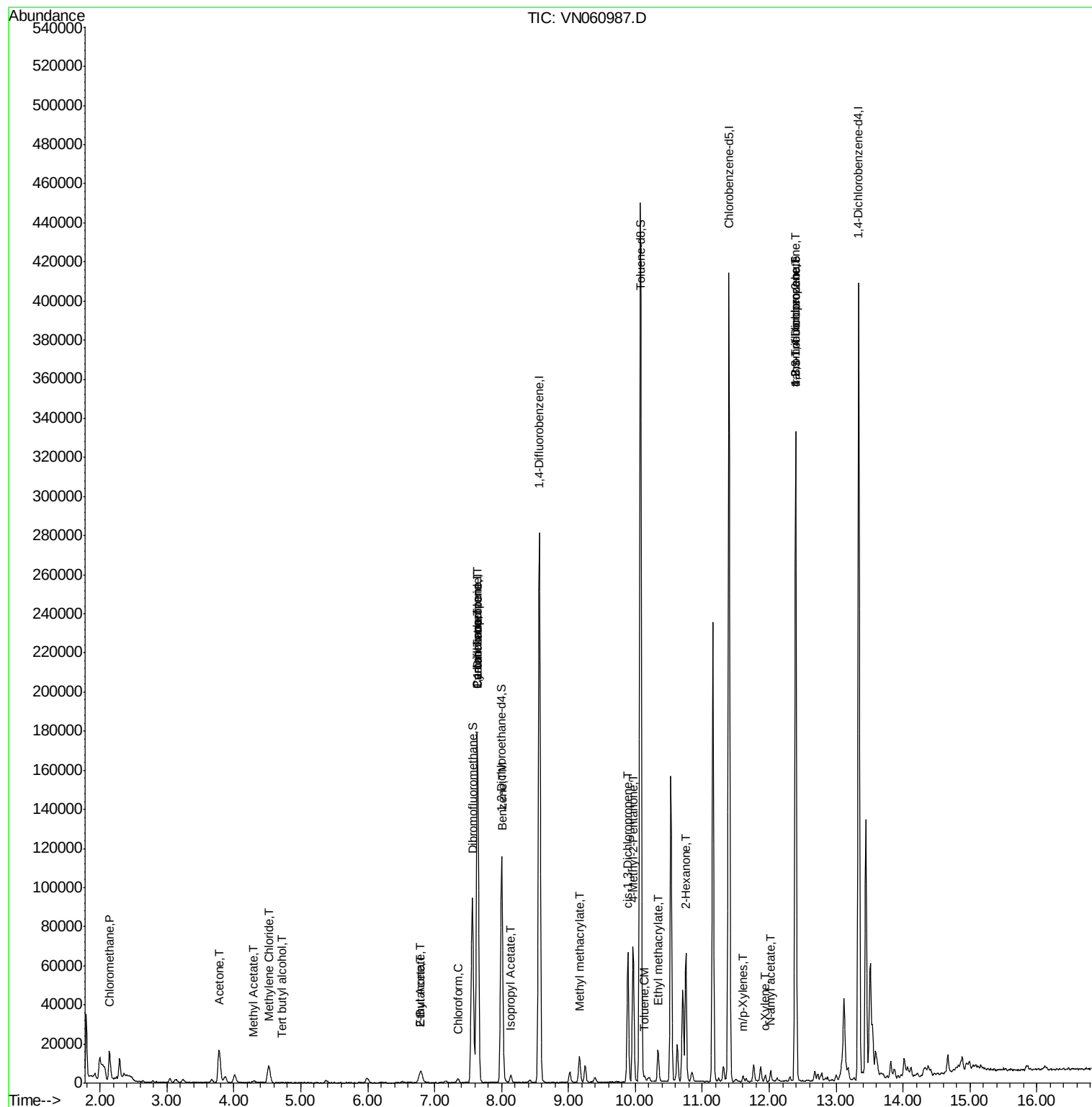
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.14	50	619	0.236	ug/l #	42
11) Tert butyl alcohol	4.72	59	91	0.310	ug/l #	72
16) Acetone	3.78	43	30171	42.740	ug/l	97
18) Methyl Acetate	4.29	43	985	0.496	ug/l #	54
20) Methylene Chloride	4.52	84	6786	3.908	ug/l	94
25) 2-Butanone	6.80	43	11051	9.674	ug/l	92
30) Chloroform	7.35	83	2541	0.833	ug/l	93
31) Cyclohexane	7.64	56	3040	0.947	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11720	4.934	ug/l #	49
37) Ethyl Acetate	6.80	43	11051	4.305	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14096	6.621	ug/l #	16
40) Benzene	8.02	78	1766	0.246	ug/l	96
43) Isopropyl Acetate	8.14	43	4829	1.141	ug/l #	84
48) Methyl methacrylate	9.16	41	2103	1.116	ug/l #	29
51) 4-Methyl-2-Pentanone	9.97	43	48819	20.267	ug/l	97
52) Toluene	10.15	92	1144	0.264	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	11893	3.970	ug/l #	60
56) Ethyl methacrylate	10.34	69	2652	1.021	ug/l #	52
59) 2-Hexanone	10.75	43	10350	5.965	ug/l #	60
68) m/p-Xylenes	11.61	106	983	0.310	ug/l	87
69) o-Xylene	11.94	106	645	0.213	ug/l	89
74) N-amyl acetate	12.02	43	4273	1.152	ug/l #	47
76) 1,2,3-Trichloropropane	12.39	75	59364	25.718	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	59364	66.052	ug/l #	13

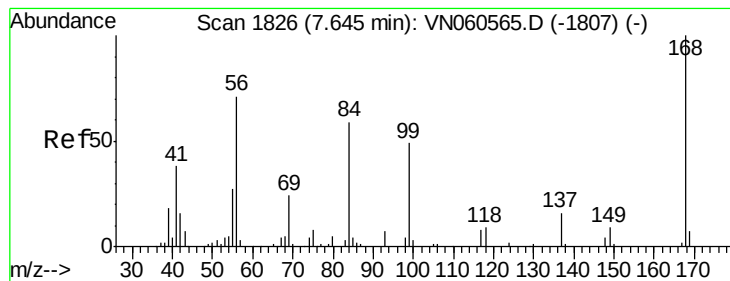
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

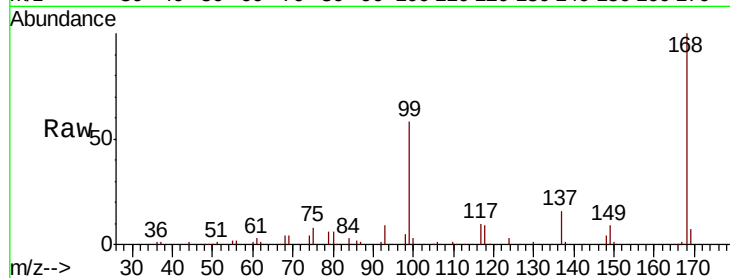
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 145173

Ion Ratio Lower Upper

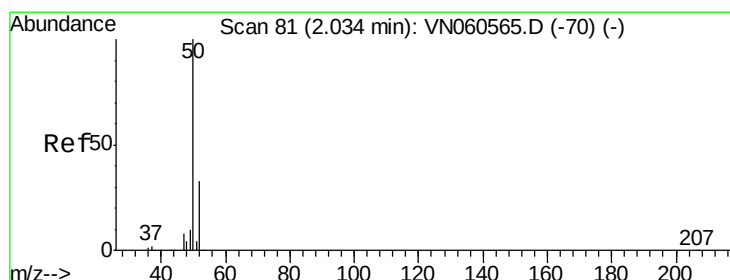
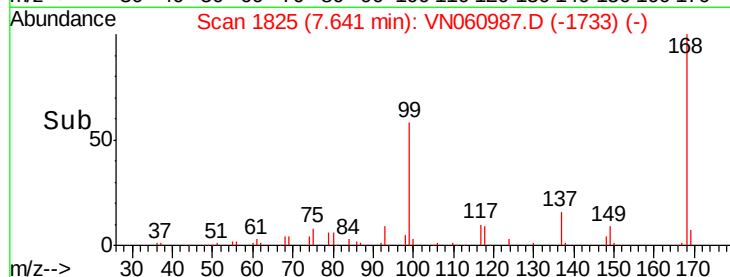
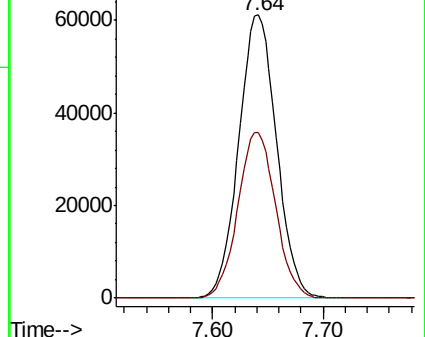
168 100

99 58.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)



#3

Chloromethane

Concen: 0.236 ug/l

RT: 2.14 min Scan# 115

Delta R.T. 0.11 min

Lab File: VN060987.D

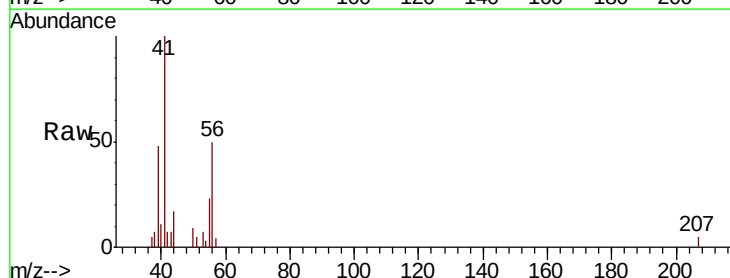
Acq: 16 Apr 2020 1:19

Tgt Ion: 50 Resp: 619

Ion Ratio Lower Upper

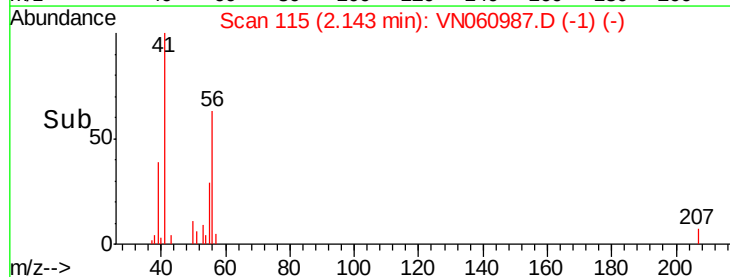
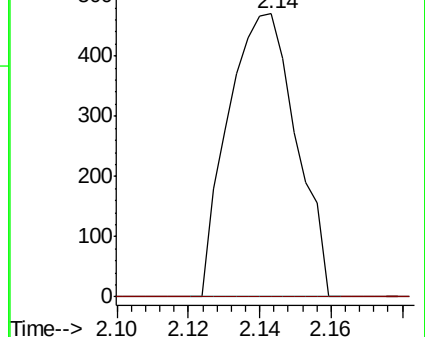
50 100

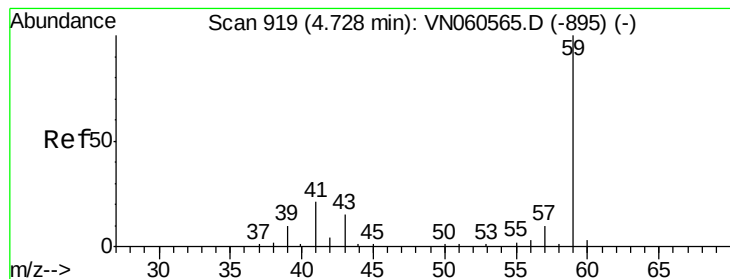
52 0.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VN060565.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN060565.D (-70) (-)



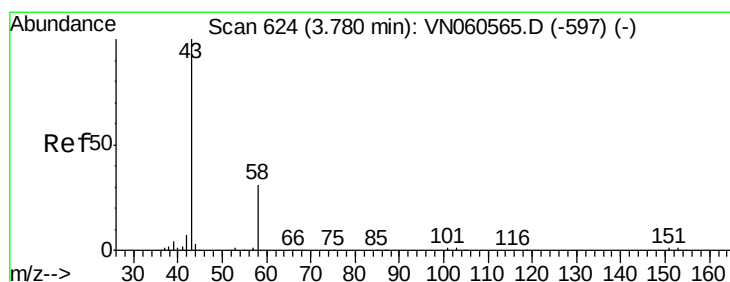
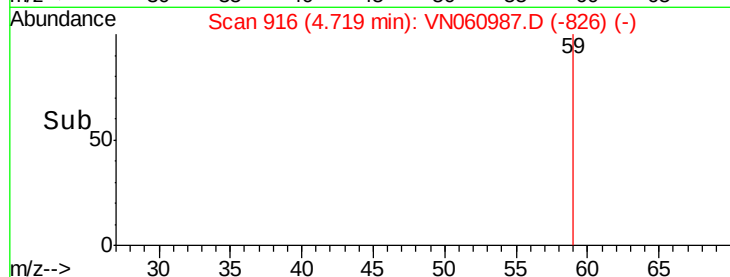
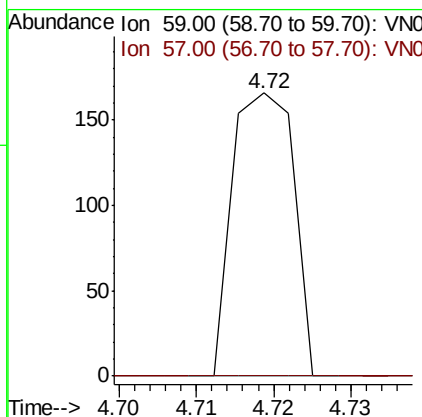
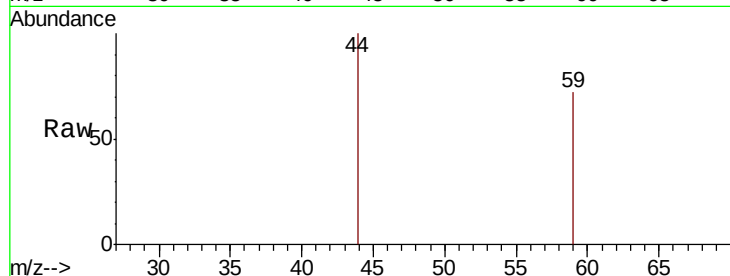


#11

Tert butyl alcohol
 Concen: 0.310 ug/l
 RT: 4.72 min Scan# 916
 Delta R.T. -0.01 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

Instrument :
 MSVOA_N
 ClientSampled :

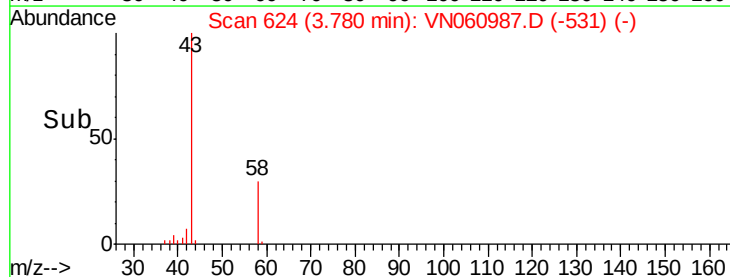
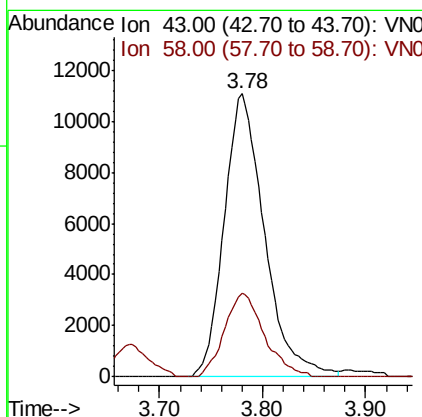
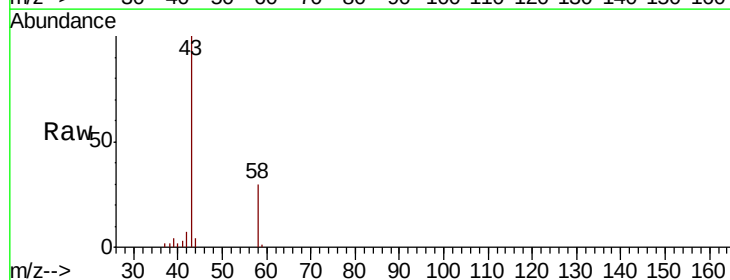
Tot Ion: 59 Resp: 91
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

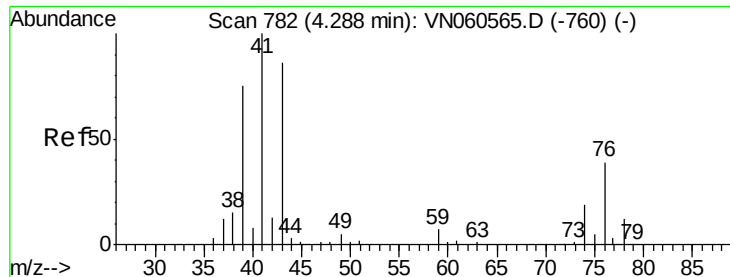


#16

Acetone
 Concen: 42.740 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.00 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

Tgt Ion: 43 Resp: 30171
 Ion Ratio Lower Upper
 43 100
 58 29.5 25.1 37.7





#18

Methyl Acetate

Concen: 0.496 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

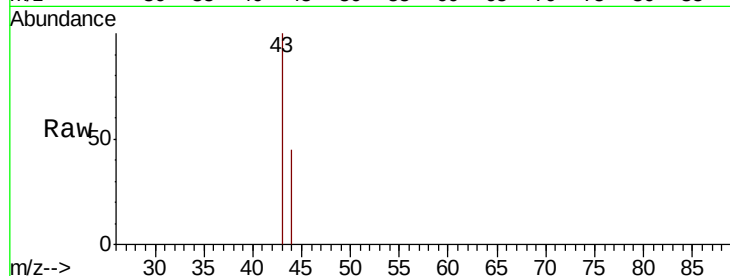
ClientSampleId :

Tot Ion: 43 Resp: 985

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

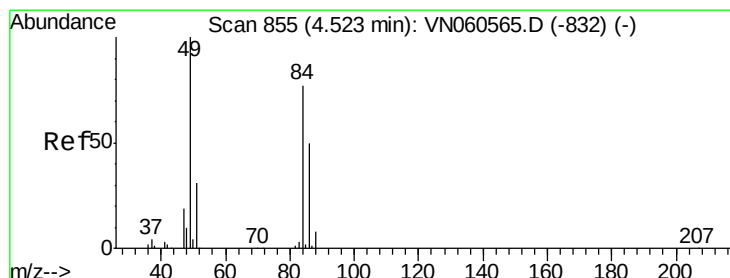
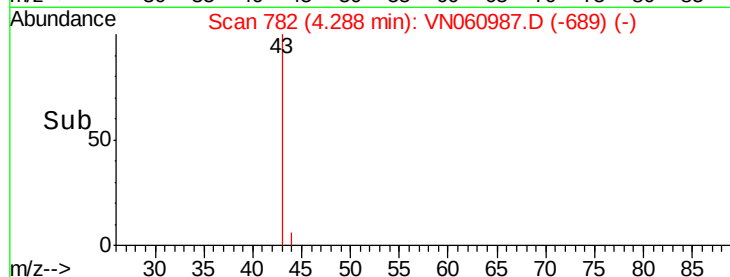
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 3.908 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Tgt Ion: 84 Resp: 6786

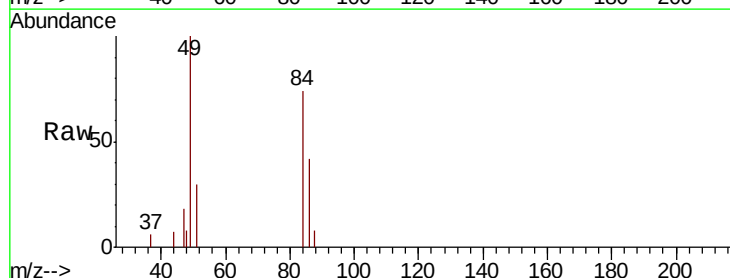
Ion Ratio Lower Upper

84 100

49 134.3 103.3 154.9

51 40.7 31.6 47.4

86 57.0 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4000

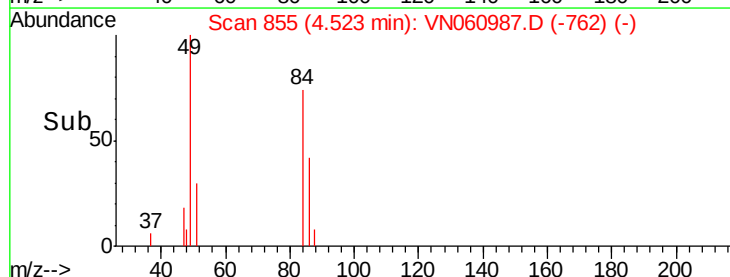
3000

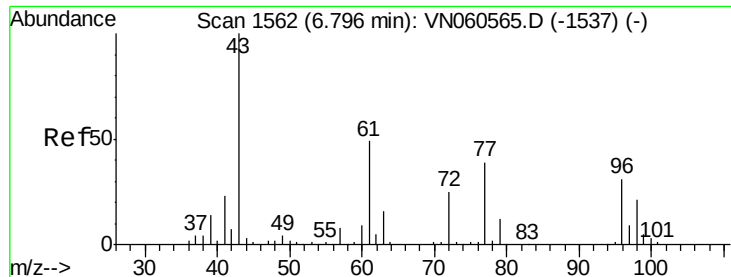
2000

1000

0

Time-->

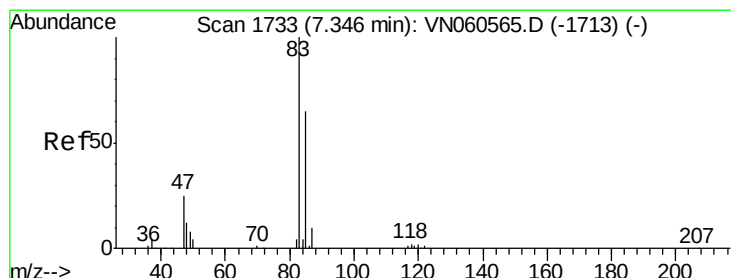
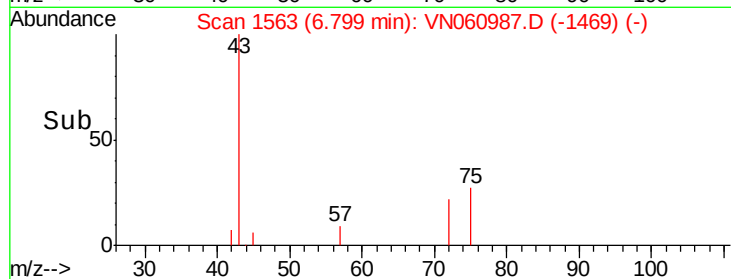
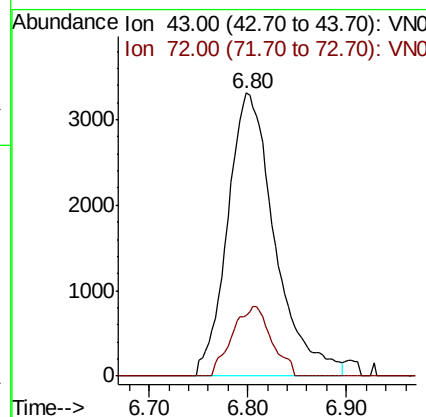
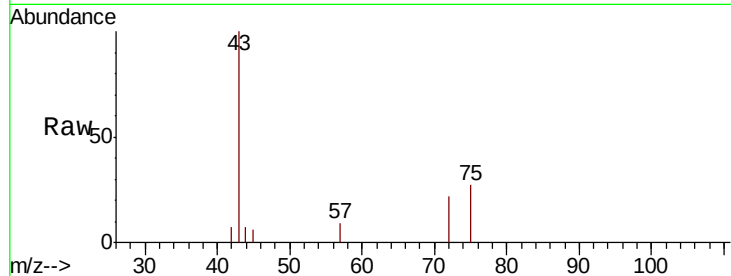




#25
 2-Butanone
 Concen: 9.674 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

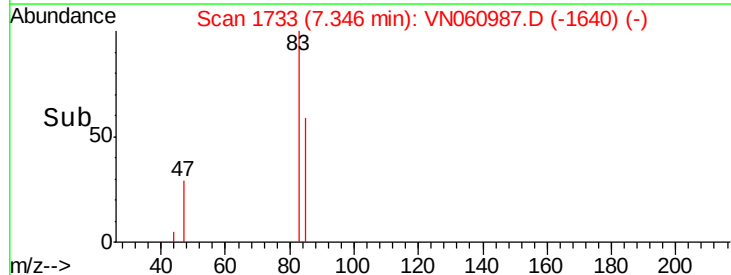
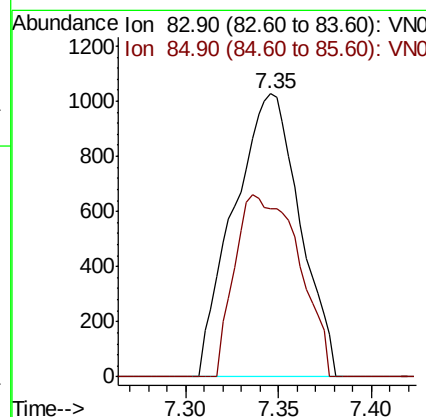
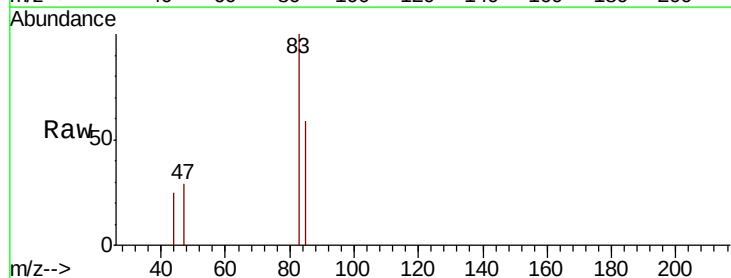
Instrument :
 MSVOA_N
 ClientSampleId :

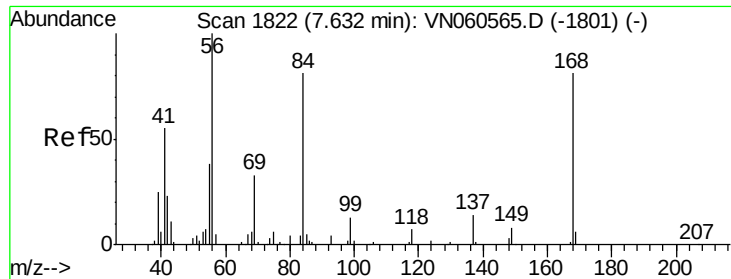
Tot Ion: 43 Resp: 11051
 Ion Ratio Lower Upper
 43 100
 72 21.6 20.4 30.6



#30
 Chloroform
 Concen: 0.833 ug/l
 RT: 7.35 min Scan# 1733
 Delta R.T. 0.00 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

Tgt Ion: 83 Resp: 2541
 Ion Ratio Lower Upper
 83 100
 85 59.3 51.8 77.8

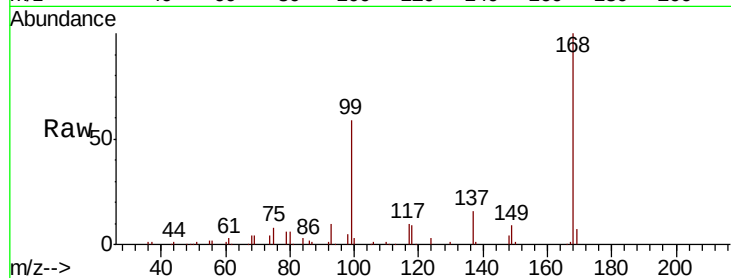




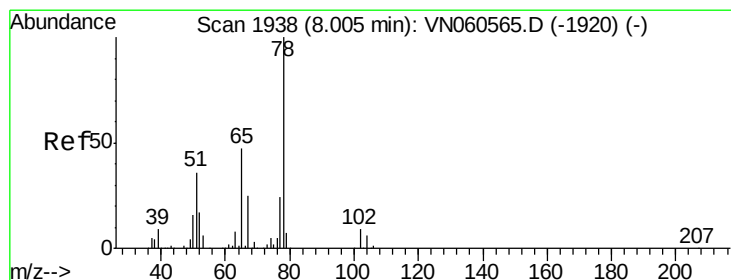
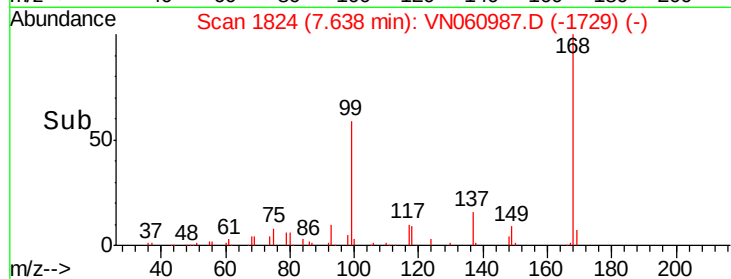
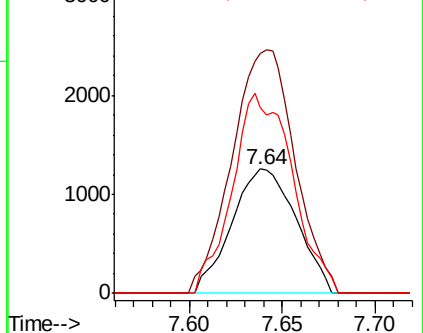
#31
Cyclohexane
Concen: 0.947 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060987.D
Acq: 16 Apr 2020 1:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3040
Ion Ratio Lower Upper
56 100
69 192.3 26.6 40.0#
84 149.3 64.3 96.5#

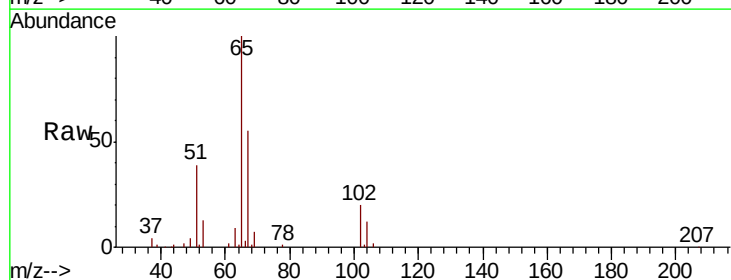


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

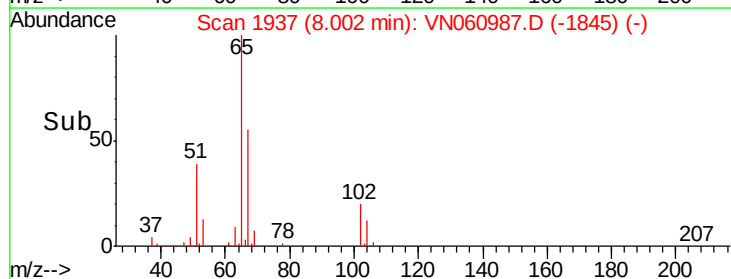
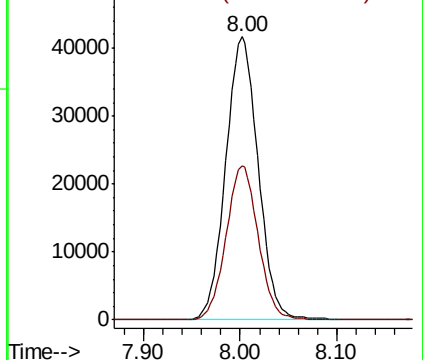


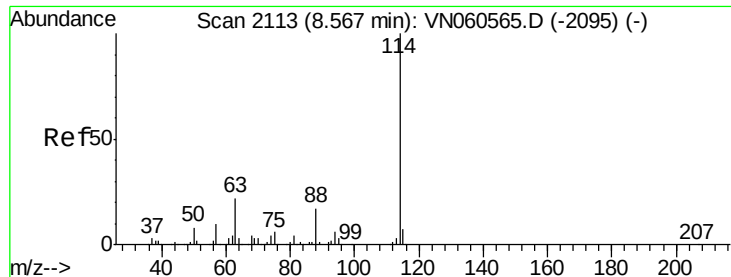
#33
1,2-Dichloroethane-d4
Concen: 48.750 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060987.D
Acq: 16 Apr 2020 1:19

Tgt Ion: 65 Resp: 97154
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.6



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

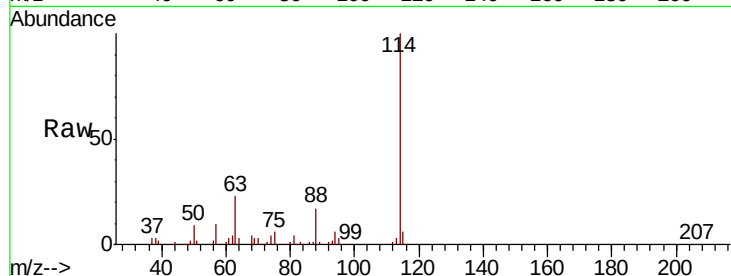




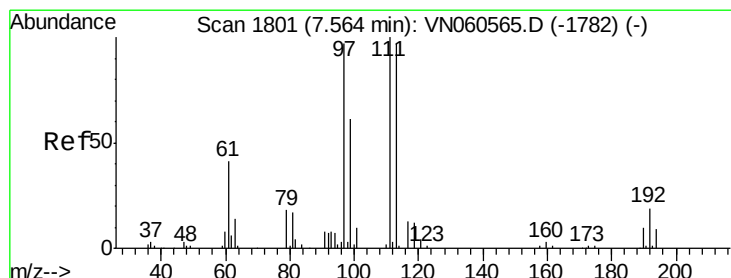
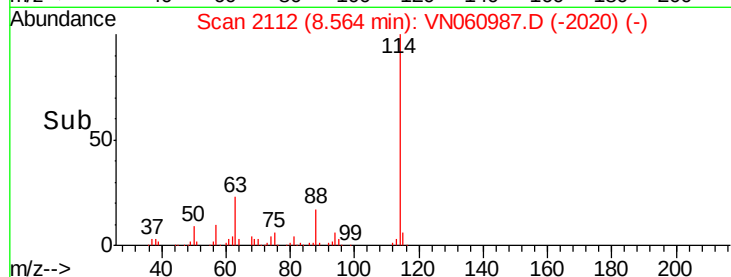
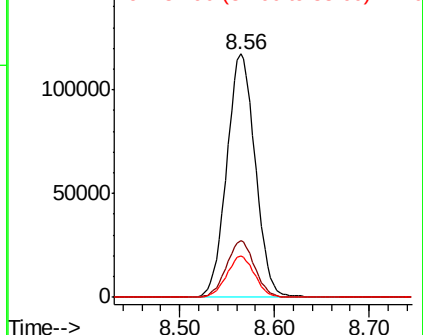
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	43.8
88	16.7	0.0	33.0

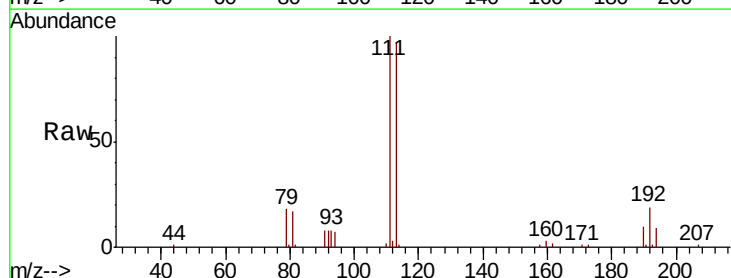


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

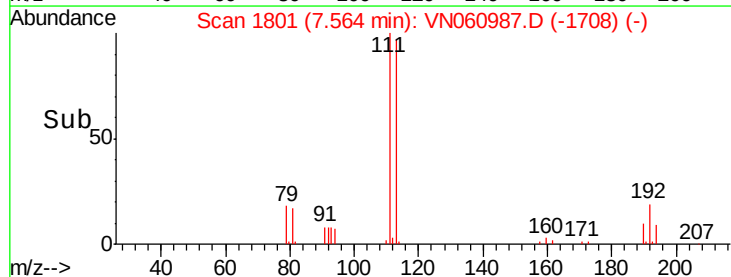
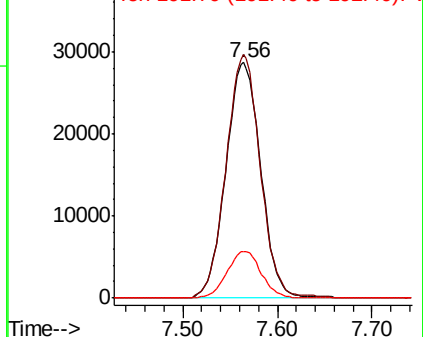


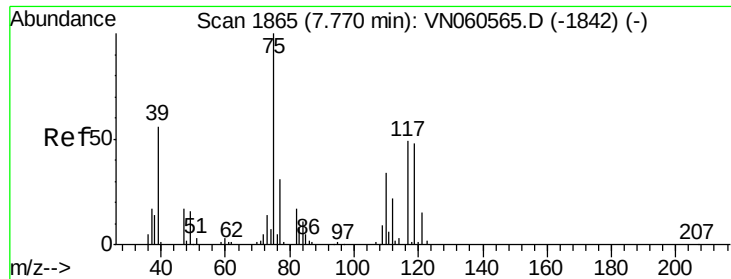
#35
 Dibromofluoromethane
 Concen: 49.538 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.9	124.3
192	19.4	15.8	23.8



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: 4.934 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

ClientSampled :

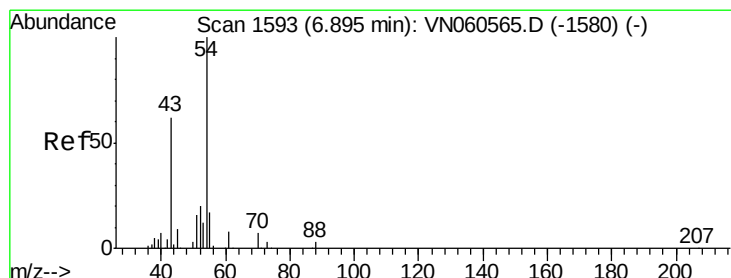
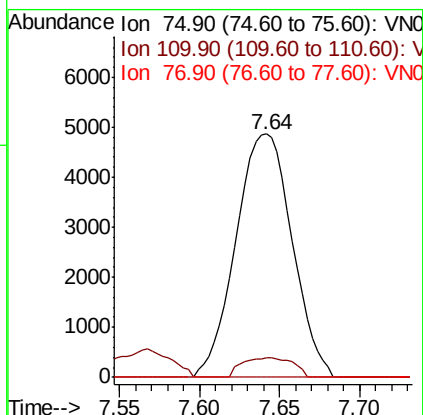
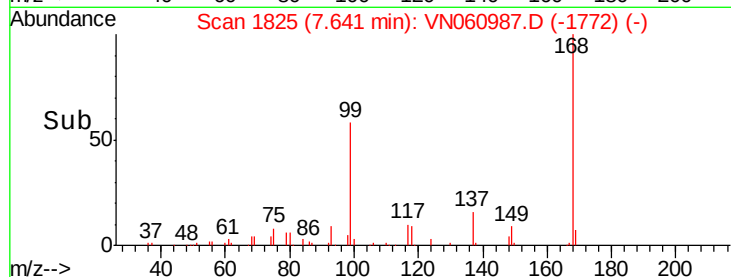
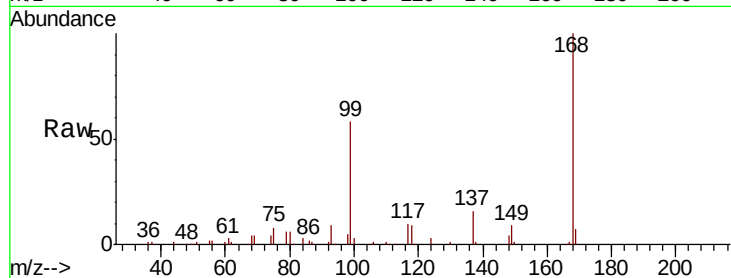
Tot Ion: 75 Resp: 11720

Ion Ratio Lower Upper

75 100

110 7.2 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 4.305 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

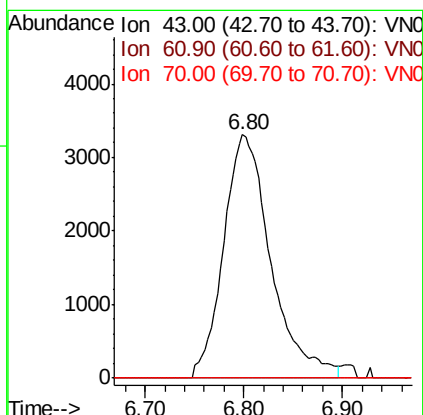
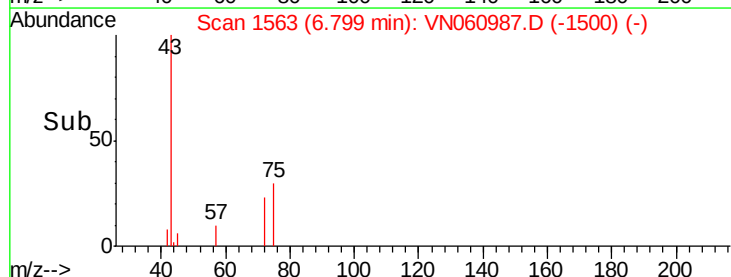
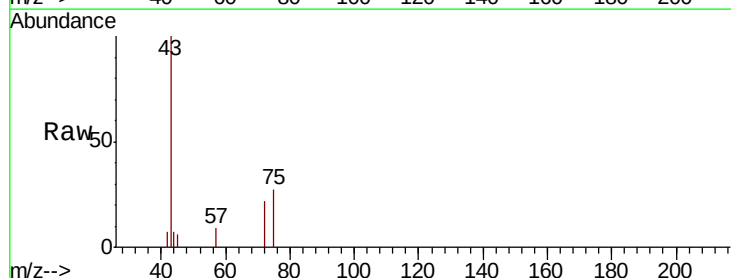
Tgt Ion: 43 Resp: 11051

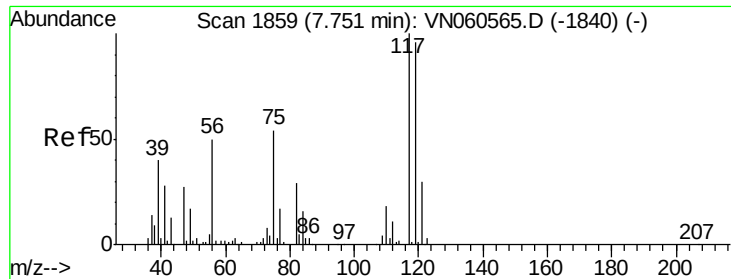
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.621 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

ClientSampled :

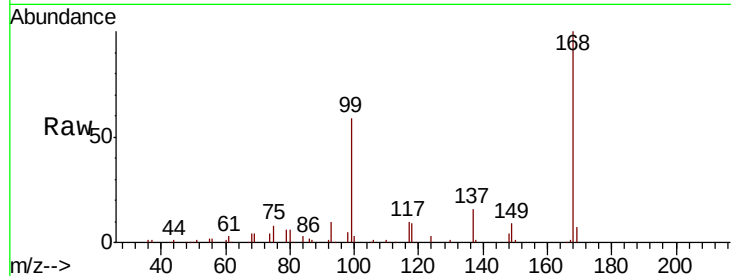
Tot Ion:117 Resp: 14096

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

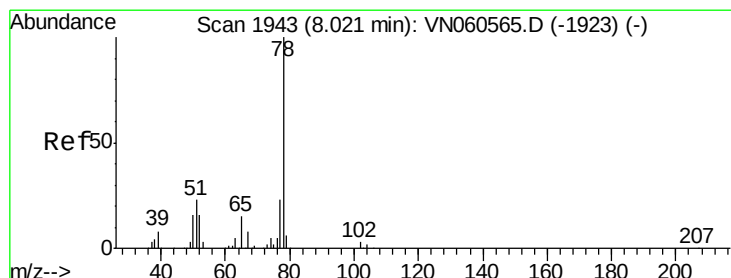
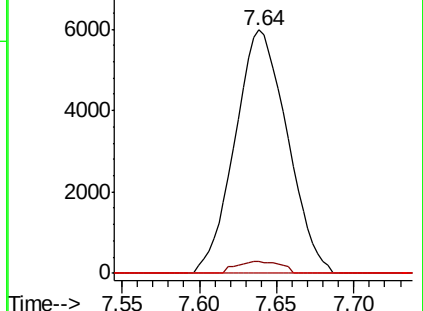
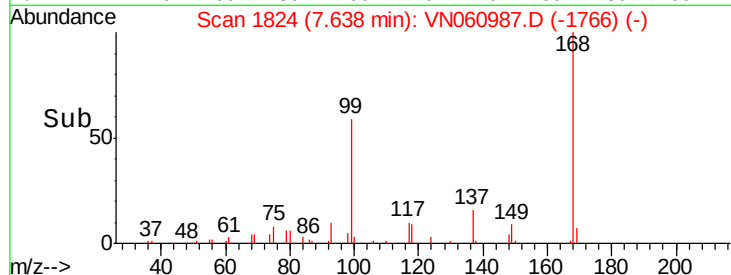
121 0.0 23.7 35.5#



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



#40

Benzene

Concen: 0.246 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN060987.D

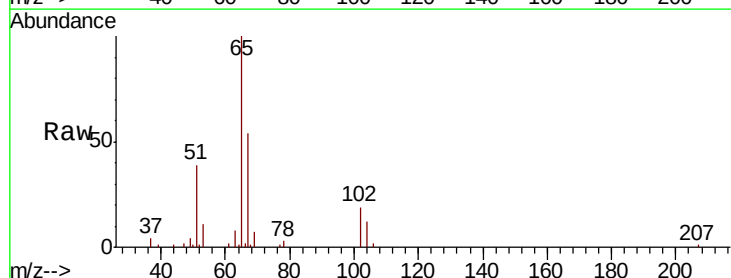
Acq: 16 Apr 2020 1:19

Tgt Ion: 78 Resp: 1766

Ion Ratio Lower Upper

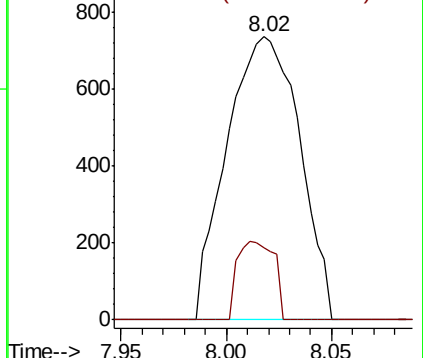
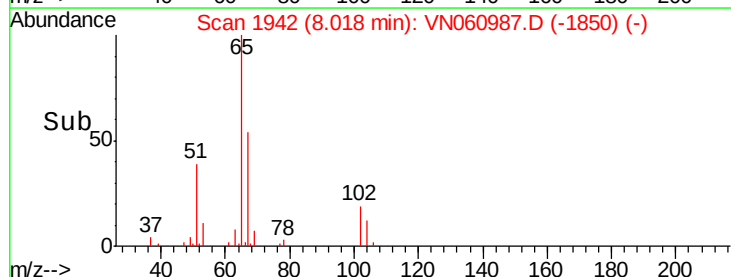
78 100

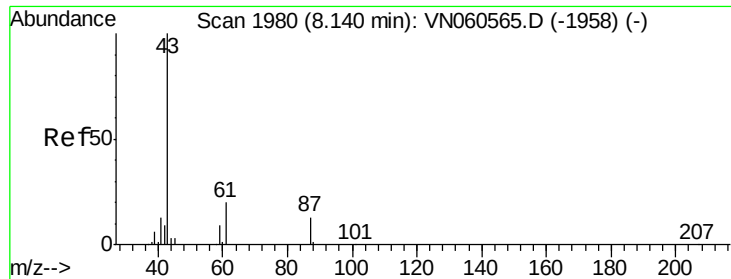
77 25.3 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 1.141 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

ClientSampled :

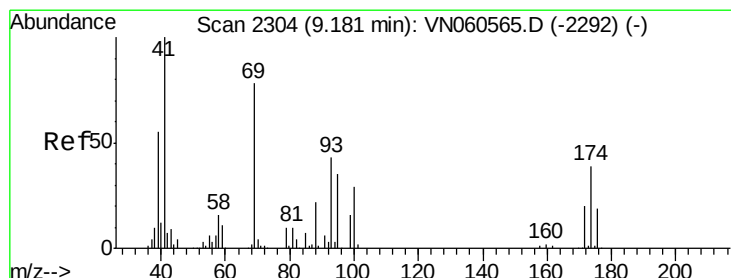
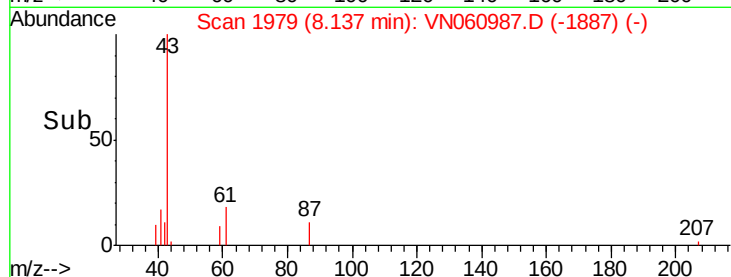
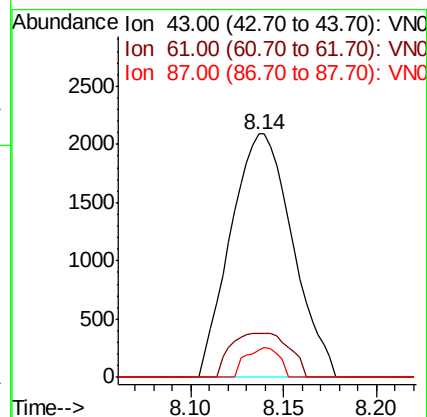
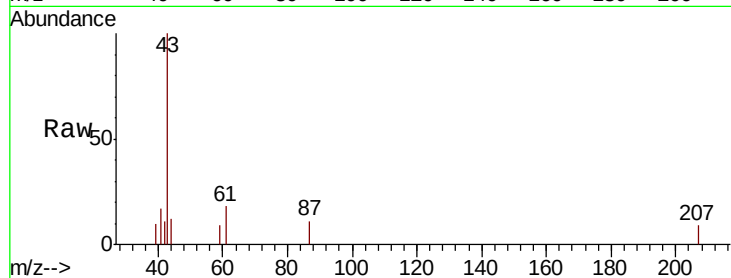
Tot Ion: 43 Resp: 4829

Ion Ratio Lower Upper

43 100

61 17.1 20.7 31.1#

87 6.6 9.8 14.8#



#48

Methyl methacrylate

Concen: 1.116 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

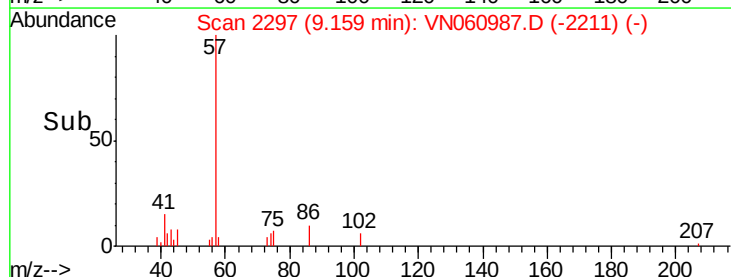
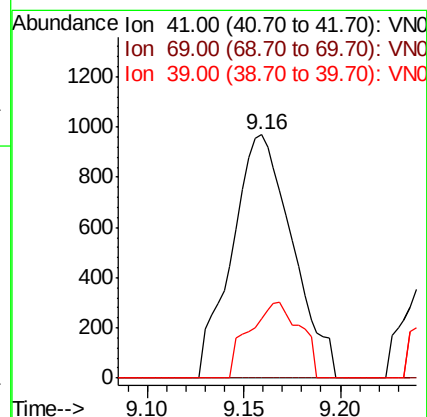
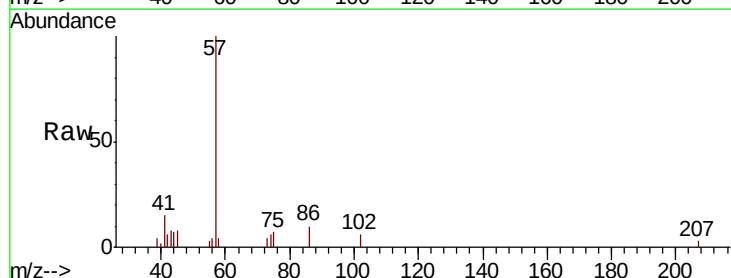
Tgt Ion: 41 Resp: 2103

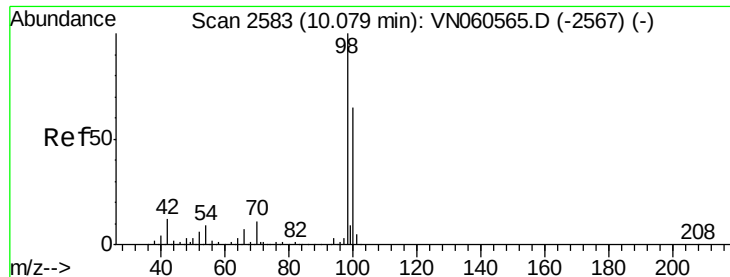
Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 26.3 44.0 66.0#

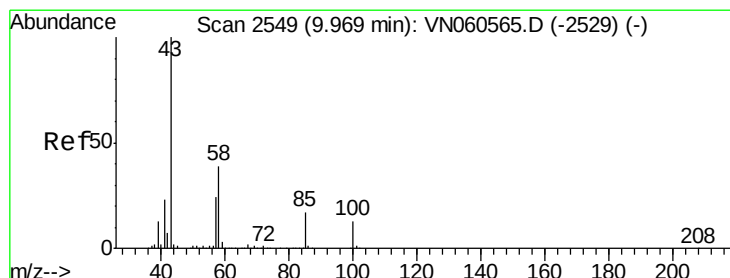
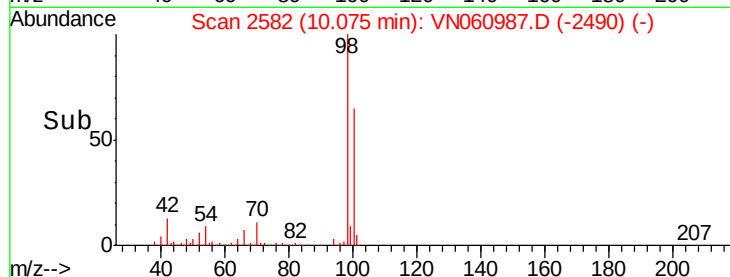
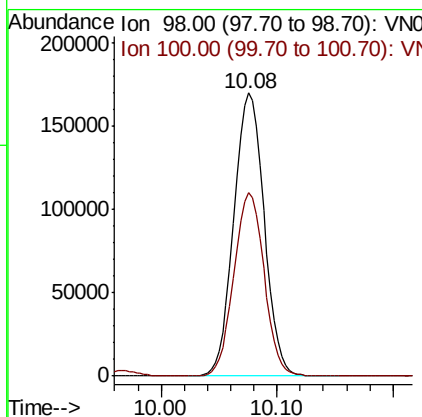
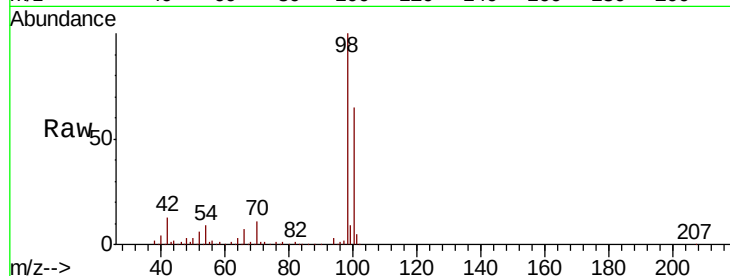




#50
Toluene-d8
Concen: 51.005 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060987.D
Acq: 16 Apr 2020 1:19

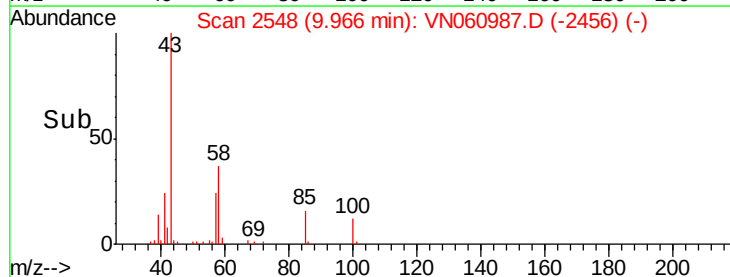
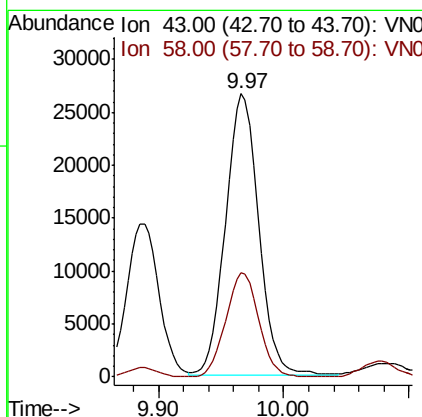
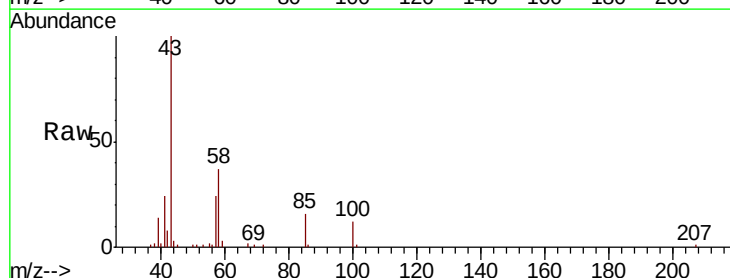
Instrument :
MSVOA_N
ClientSampleId :

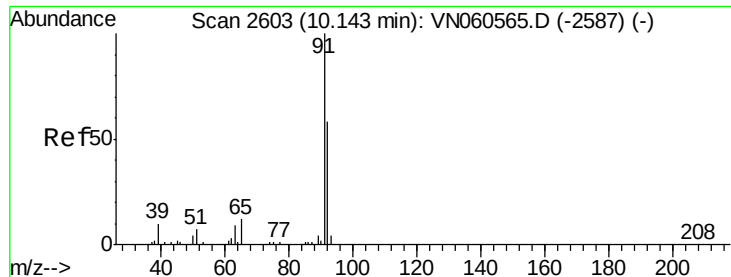
Tot Ion: 98 Resp: 309044
Ion Ratio Lower Upper
98 100
100 64.5 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 20.267 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060987.D
Acq: 16 Apr 2020 1:19

Tgt Ion: 43 Resp: 48819
Ion Ratio Lower Upper
43 100
58 36.7 30.8 46.2





#52

Toluene

Concen: 0.264 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

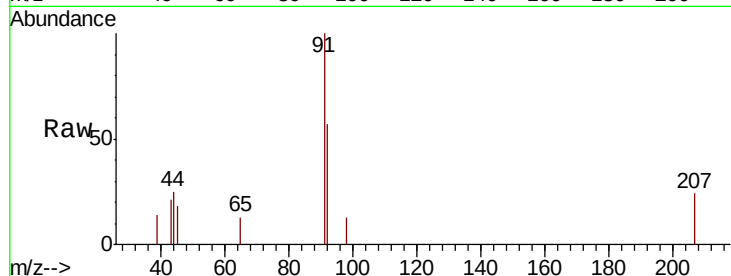
ClientSampled :

Tot Ion: 92 Resp: 1144

Ion Ratio Lower Upper

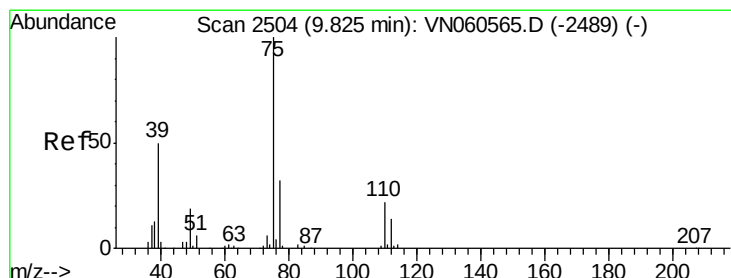
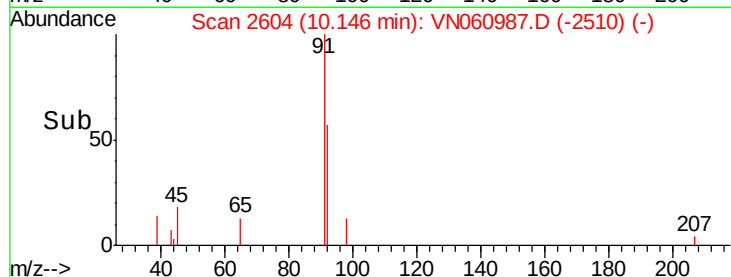
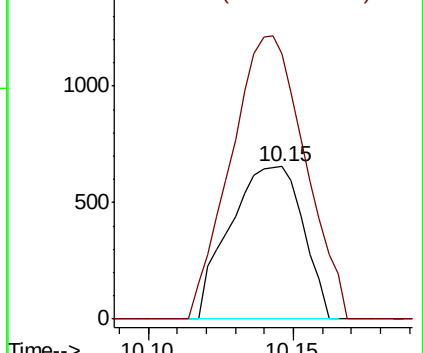
92 100

91 188.4 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 3.970 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

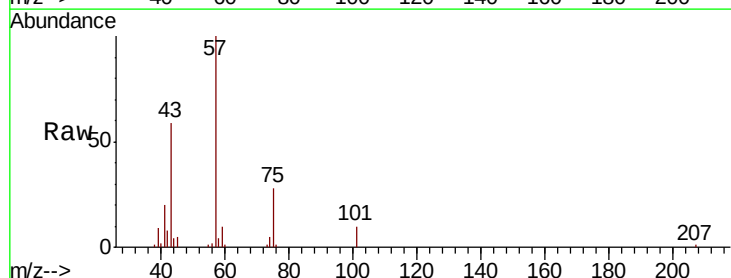
Tgt Ion: 75 Resp: 11893

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

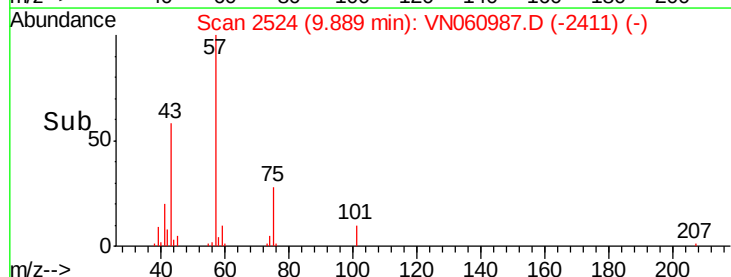
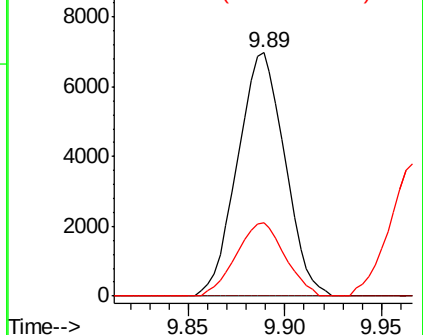
39 30.1 40.2 60.4#

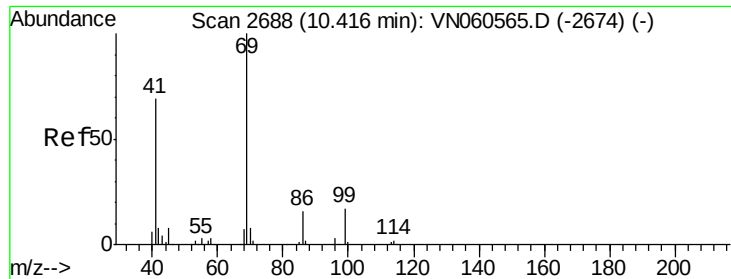


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 1.021 ug/l

RT: 10.34 min Scan# 2665

Delta R.T. -0.07 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

ClientSampleId :

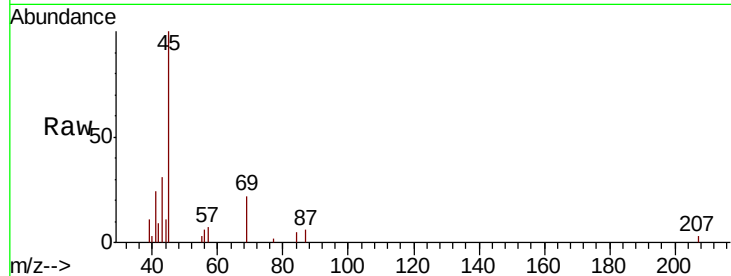
Tot Ion: 69 Resp: 2652

Ion Ratio Lower Upper

69 100

41 115.9 55.4 83.2#

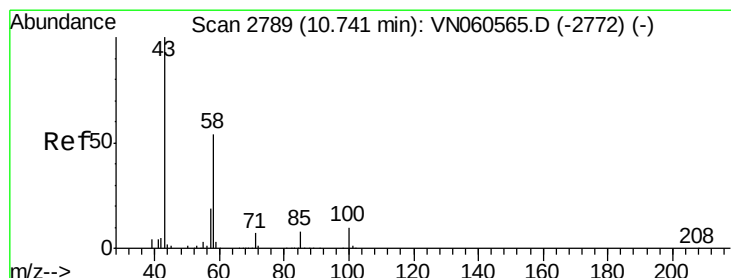
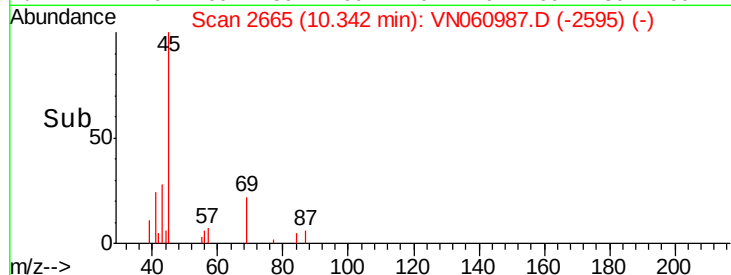
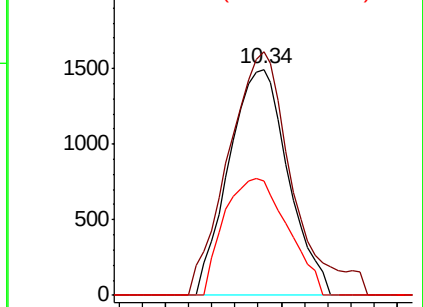
39 55.4 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 5.965 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060987.D

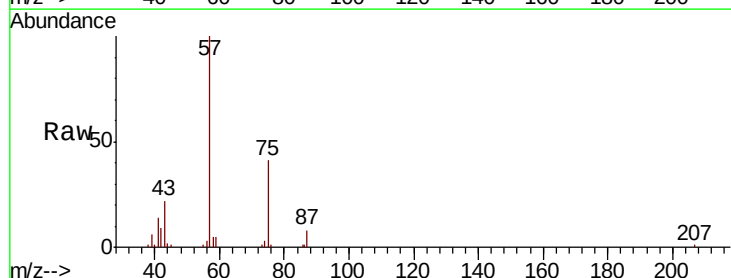
Acq: 16 Apr 2020 1:19

Tgt Ion: 43 Resp: 10350

Ion Ratio Lower Upper

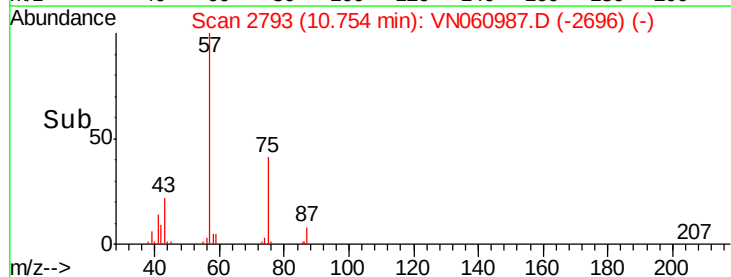
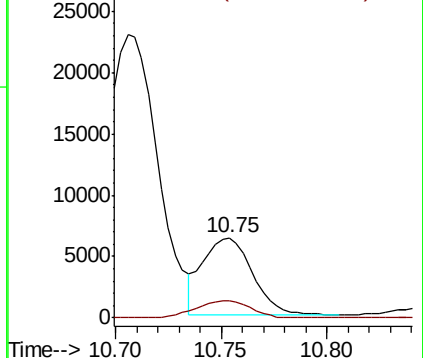
43 100

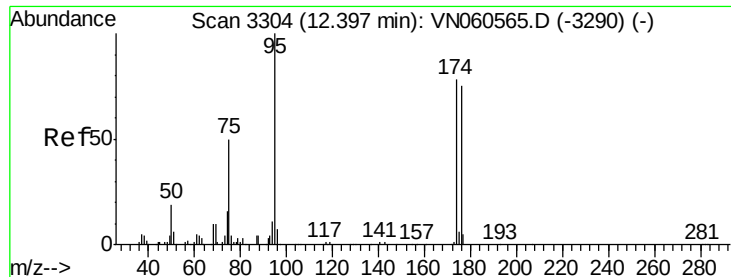
58 24.8 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.196 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

ClientSampleId :

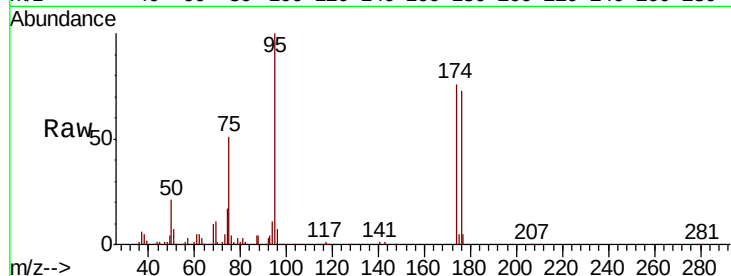
Tot Ion: 95 Resp: 115904

Ion Ratio Lower Upper

95 100

174 76.1 0.0 157.6

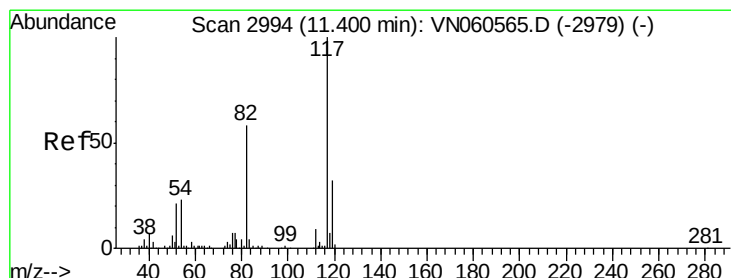
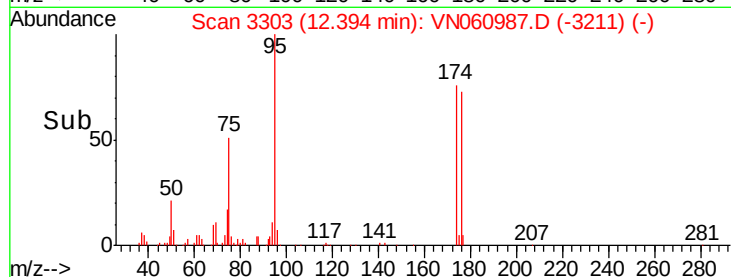
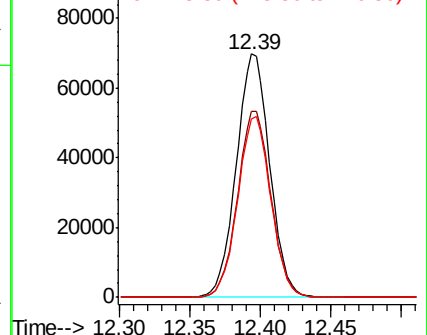
176 73.7 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060565.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060565.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060565.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

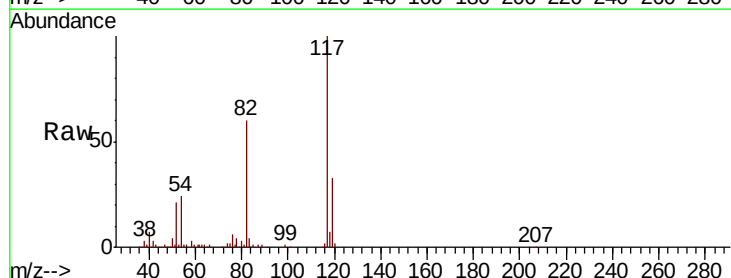
Tgt Ion: 117 Resp: 231674

Ion Ratio Lower Upper

117 100

82 59.9 46.7 70.1

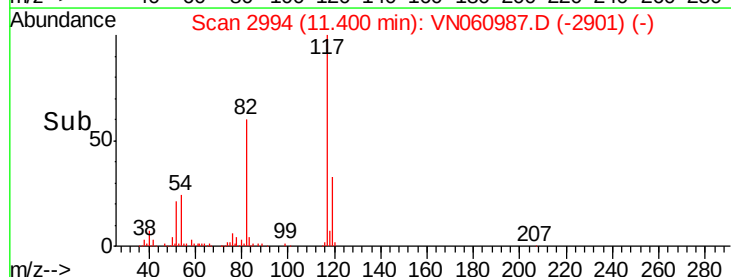
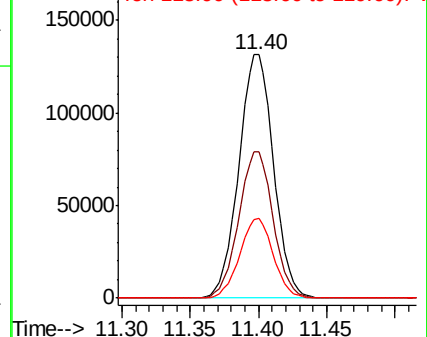
119 32.6 25.5 38.3

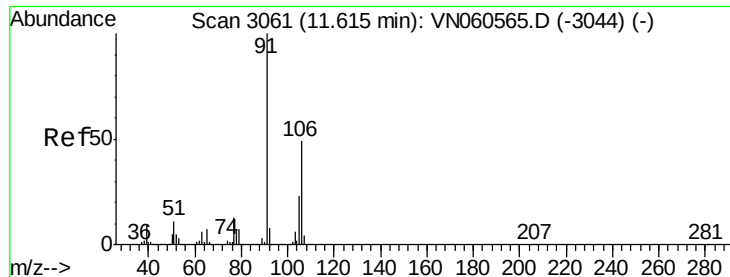


Abundance Ion 116.90 (116.60 to 117.60): VN060565.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060565.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060565.D (-2979) (-)





#68

m/p-Xylenes

Concen: 0.310 ug/l

RT: 11.61 min Scan# 3059

Delta R.T. -0.01 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

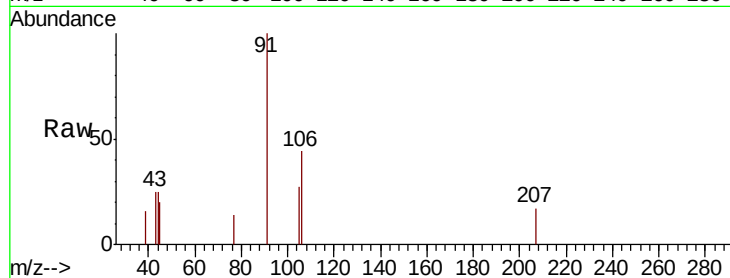
ClientSampled :

Tot Ion:106 Resp: 983

Ion Ratio Lower Upper

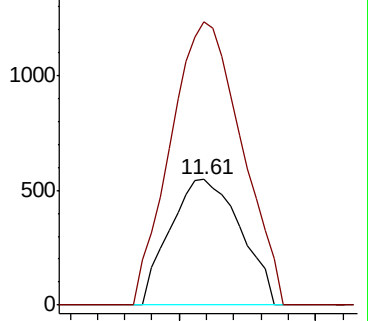
106 100

91 226.4 165.0 247.4

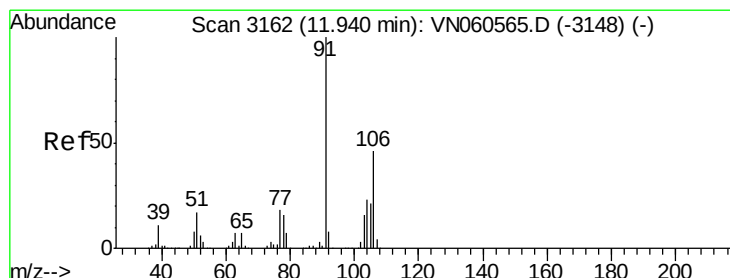
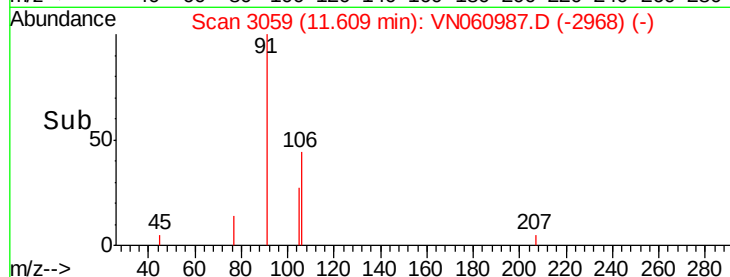


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



Time-->



#69

o-Xylene

Concen: 0.213 ug/l

RT: 11.94 min Scan# 3162

Delta R.T. 0.00 min

Lab File: VN060987.D

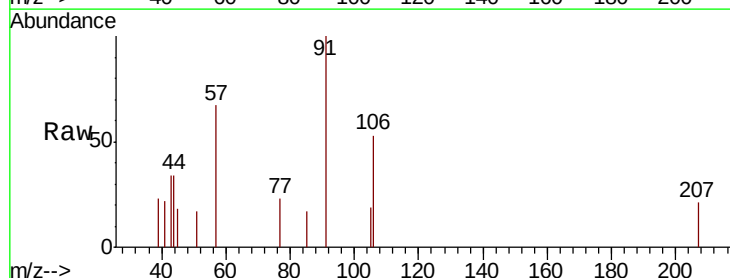
Acq: 16 Apr 2020 1:19

Tgt Ion:106 Resp: 645

Ion Ratio Lower Upper

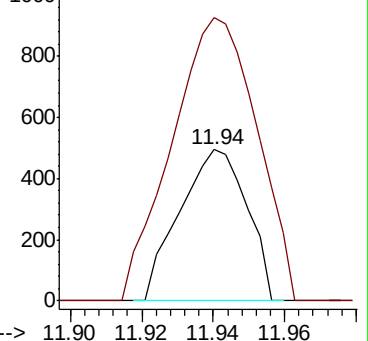
106 100

91 236.1 109.5 328.4

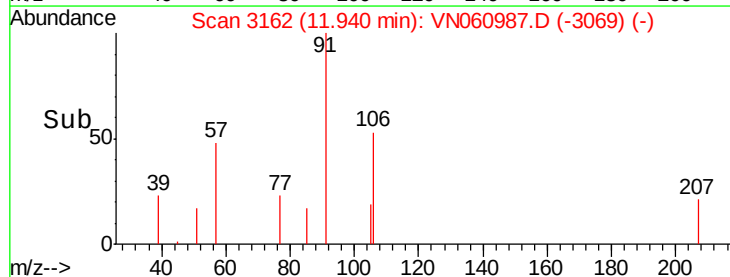


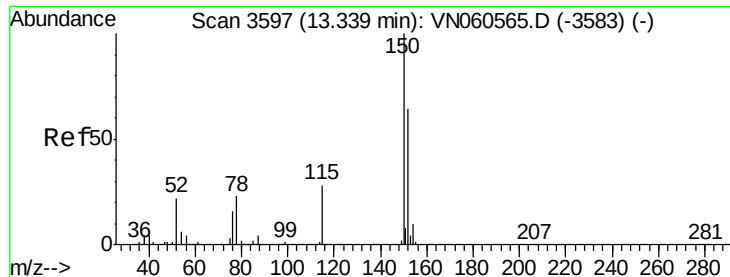
Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



Time-->

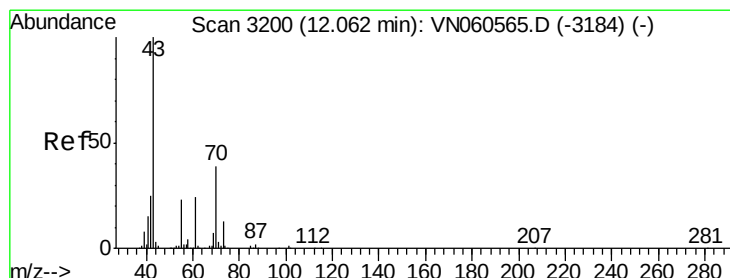
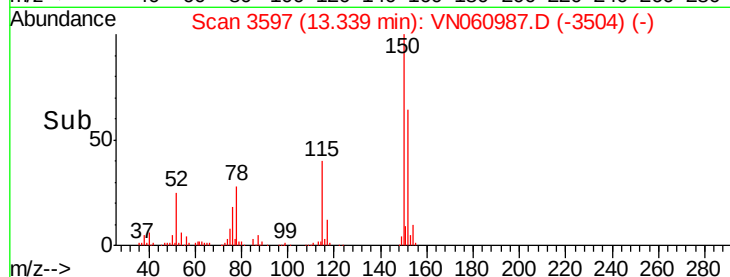
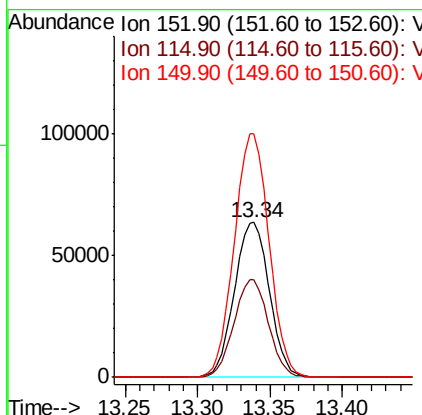
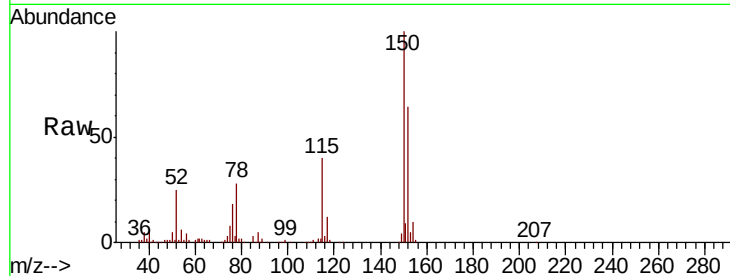




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

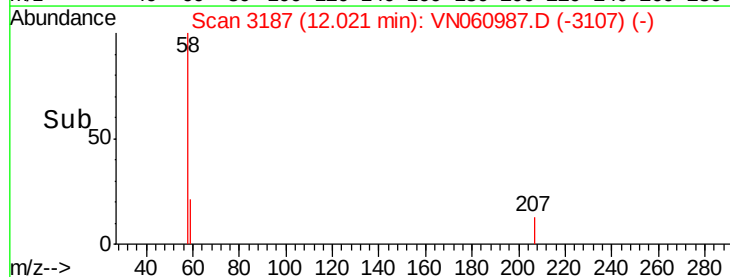
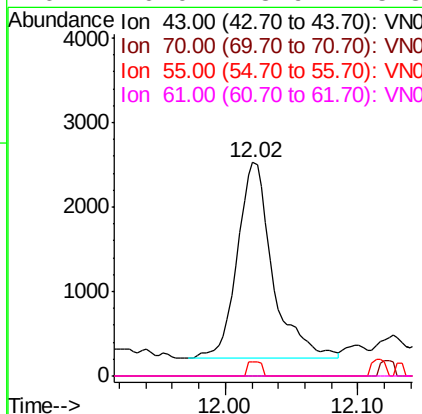
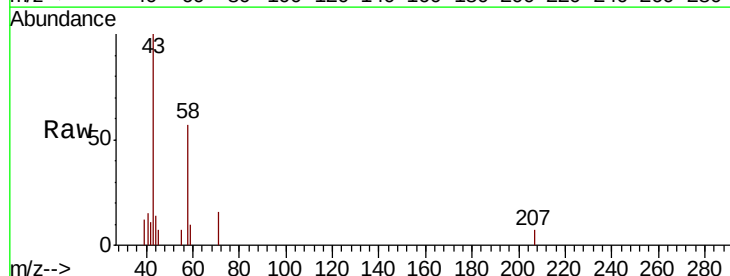
Instrument :
 MSVOA_N
 ClientSampleId :

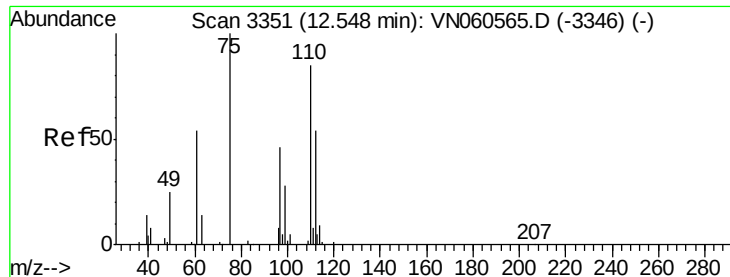
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.9	30.2	90.6
150	156.3	0.0	350.2



#74
 N-ethyl acetate
 Concen: 1.152 ug/l
 RT: 12.02 min Scan# 3187
 Delta R.T. -0.04 min
 Lab File: VN060987.D
 Acq: 16 Apr 2020 1:19

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.1	46.7#
55	3.0	18.6	27.8#
61	0.0	18.9	28.3#





#76

1,2,3-Trichloropropane

Concen: 25.718 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Instrument :

MSVOA_N

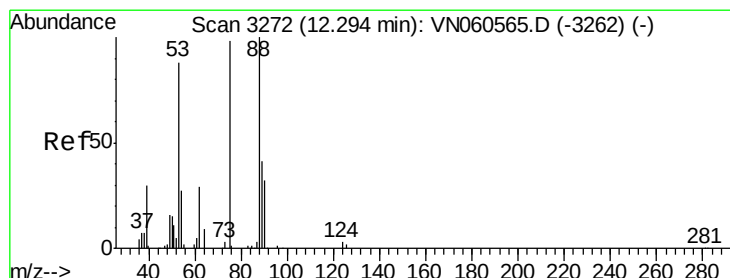
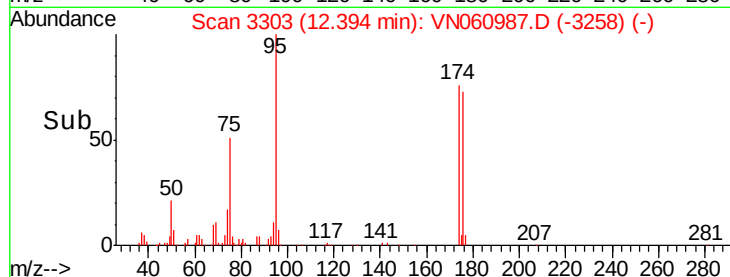
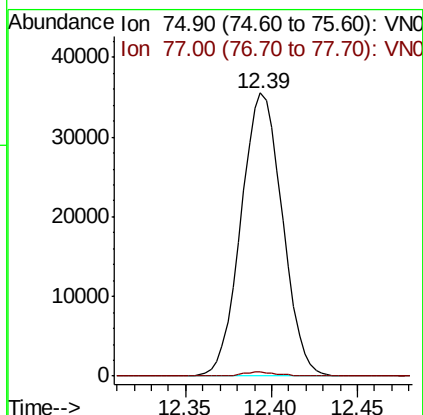
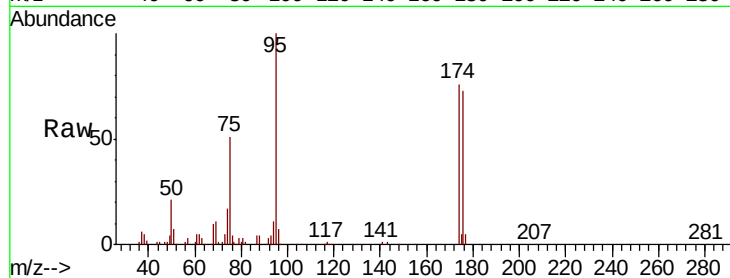
ClientSampleId :

Tot Ion: 75 Resp: 59364

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.052 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060987.D

Acq: 16 Apr 2020 1:19

Tgt Ion: 75 Resp: 59364

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

