

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060749.D
 Acq On : 27 Mar 2020 18:11
 Operator : JC/MD
 Sample : PB127814ZHE#14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#14

Quant Time: Mar 28 02:02:01 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	201491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	338332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	317322	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144186	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	131180	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
35) Dibromofluoromethane	7.56	113	100262	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
50) Toluene-d8	10.08	98	414573	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	155479	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	

Target Compounds						Qvalue
16) Acetone	3.78	43	6074	6.199	ug/l	97
18) Methyl Acetate	4.29	43	1819	0.660	ug/l #	54
20) Methylene Chloride	4.53	84	4343	1.802	ug/l	92
25) 2-Butanone	6.79	43	883	0.557	ug/l #	50
31) Cyclohexane	7.64	56	4176	0.937	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16140	4.927	ug/l #	49
37) Ethyl Acetate	6.79	43	883	0.249	ug/l #	87
38) Carbon Tetrachloride	7.64	117	19347	6.589	ug/l #	17
43) Isopropyl Acetate	8.14	43	58545	10.028	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1071	0.410	ug/l #	43
48) Methyl methacrylate	9.16	41	3027	1.165	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4734	1.425	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	25228	6.107	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4006	1.005	ug/l #	42
59) 2-Hexanone	10.75	43	59044	24.673	ug/l #	52
71) Bromoform	12.40	173	972	2.177	ug/l #	1
74) N-amyl acetate	12.02	43	2247	0.449	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	78538	25.243	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3162	0.344	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	78538	64.832	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

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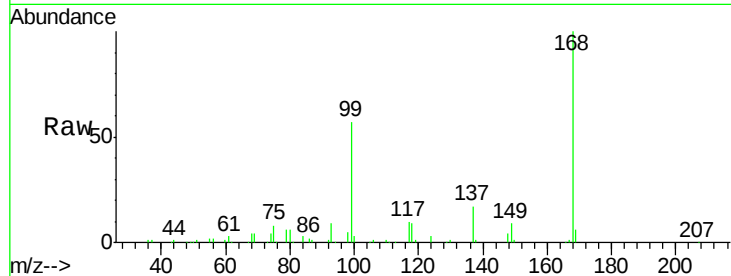
PB127814ZHE#14

Tgt Ion:168 Resp: 201491

Ion Ratio Lower Upper

168 100

99 56.9 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

80000

60000

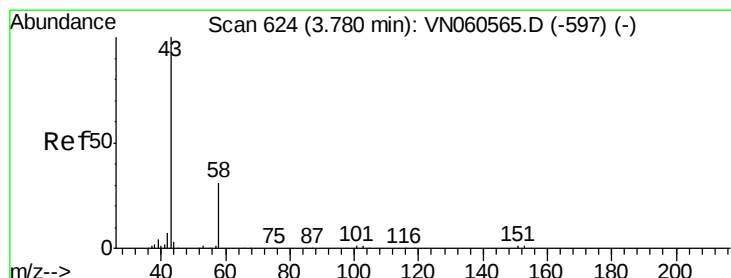
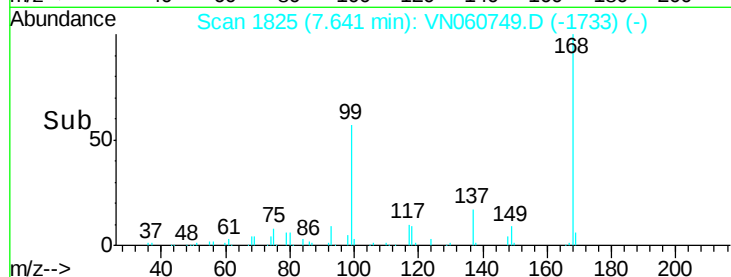
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 6.199 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060749.D

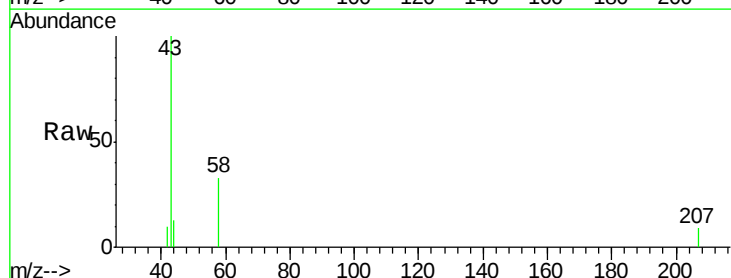
Acq: 27 Mar 2020 18:11

Tgt Ion: 43 Resp: 6074

Ion Ratio Lower Upper

43 100

58 33.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

2000

1500

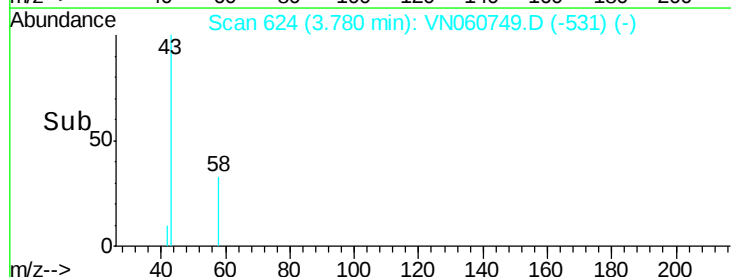
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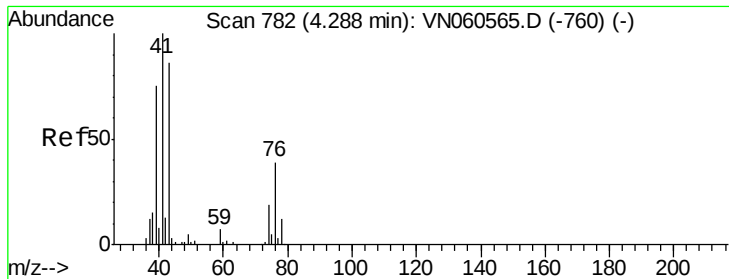
500

0

3.70 3.75 3.80 3.85 3.90

Time-->

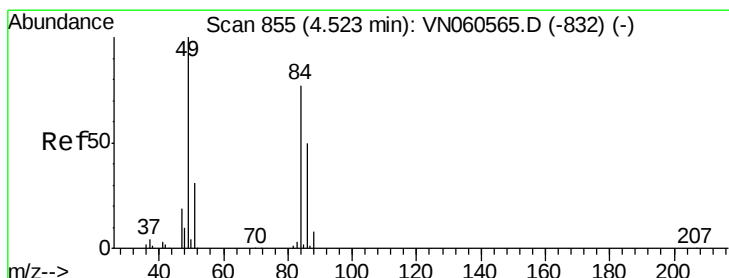
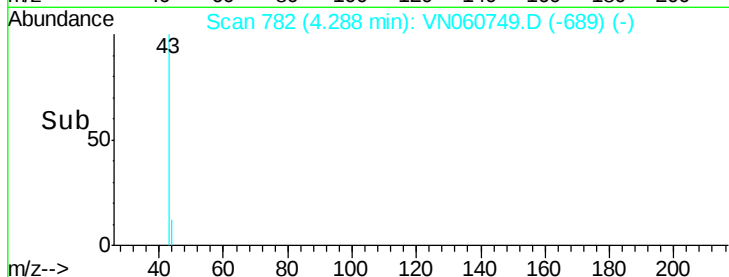
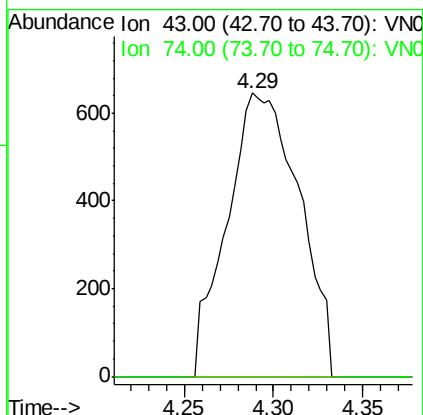
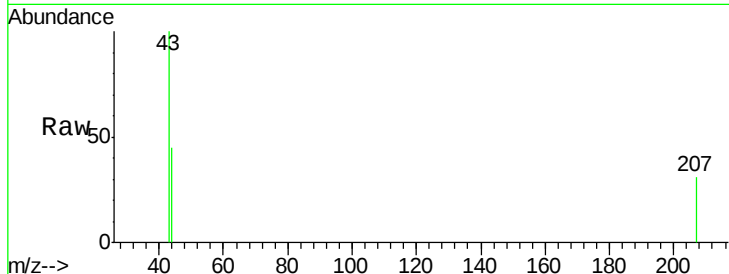




#18
Methyl Acetate
Concen: 0.660 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

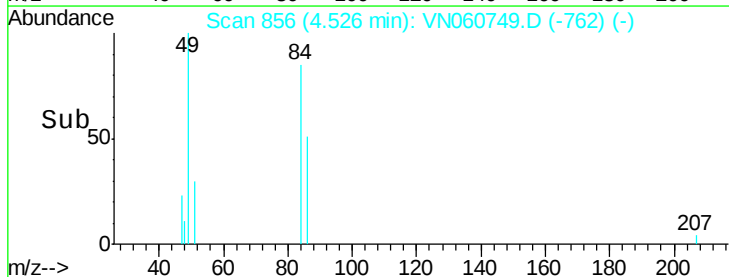
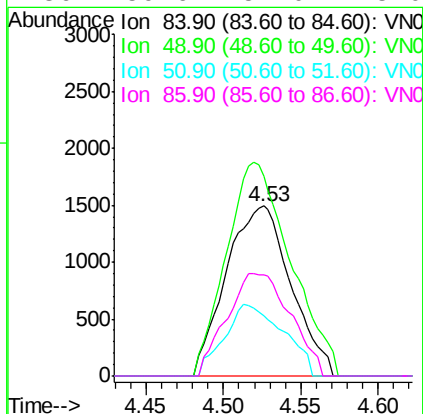
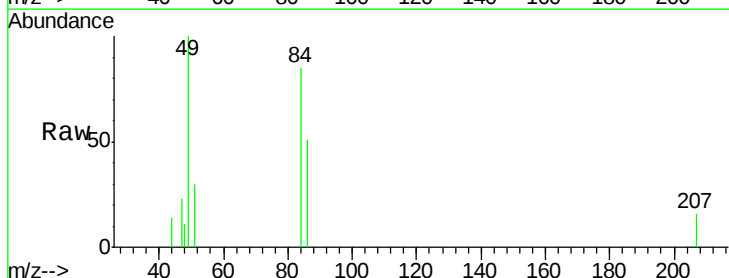
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#14

Tgt Ion: 43 Resp: 1819
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.802 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

Tgt Ion: 84 Resp: 4343
Ion Ratio Lower Upper
84 100
49 117.9 103.3 154.9
51 35.7 31.6 47.4
86 59.6 52.0 78.0

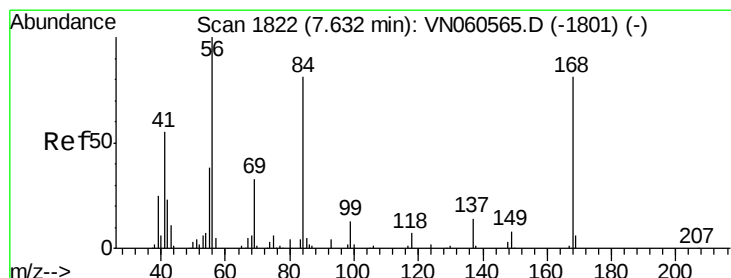
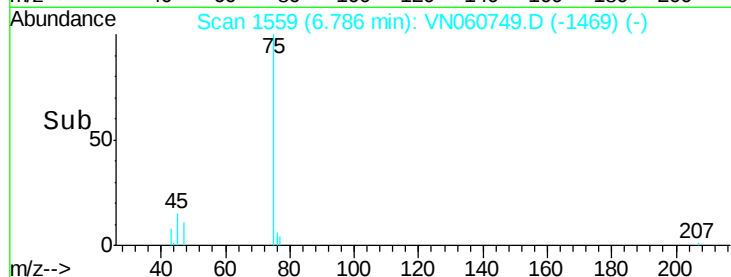
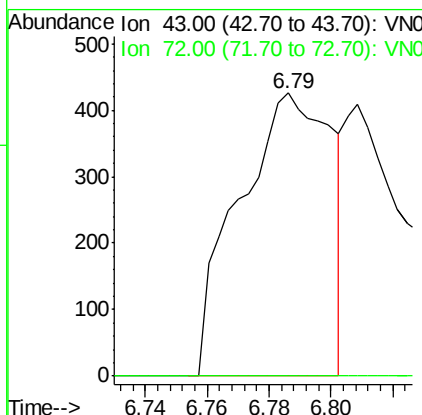
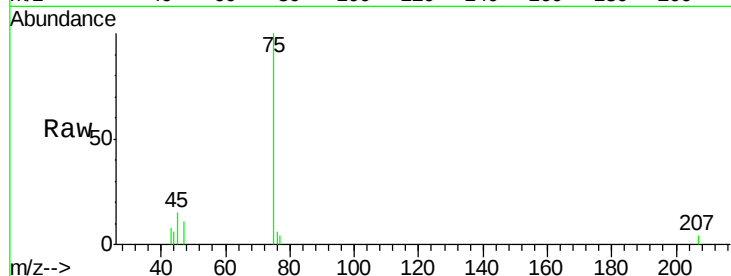




#25
2-Butanone
Concen: 0.557 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.01 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

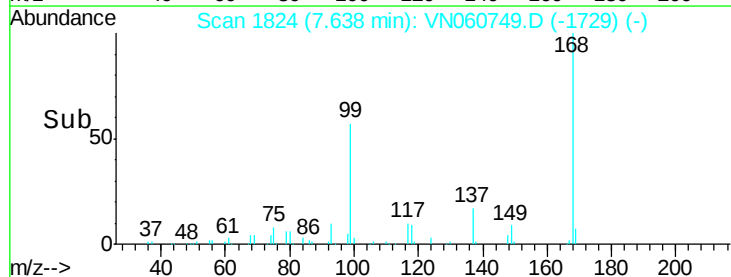
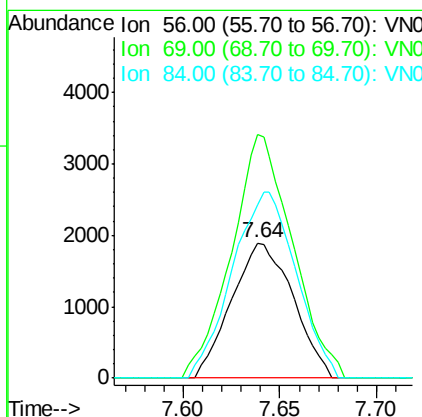
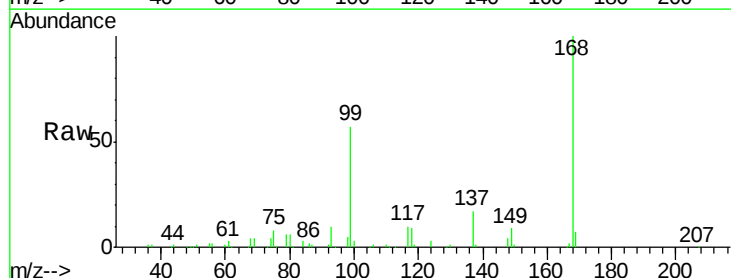
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#14

Tgt Ion: 43 Resp: 883
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.937 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

Tgt Ion: 56 Resp: 4176
Ion Ratio Lower Upper
56 100
69 170.2 26.6 40.0#
84 128.2 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 47.426 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

Instrument :

MSVOA_N

ClientSampleId :

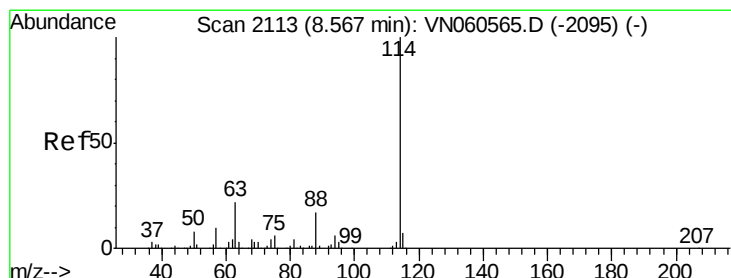
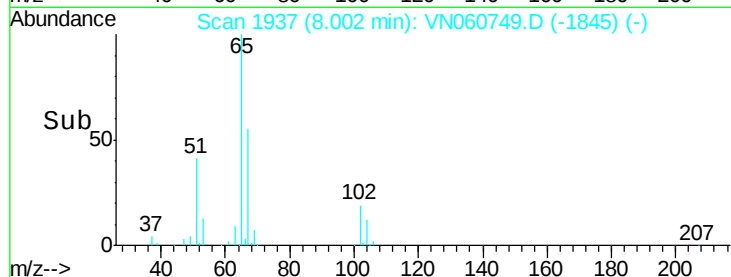
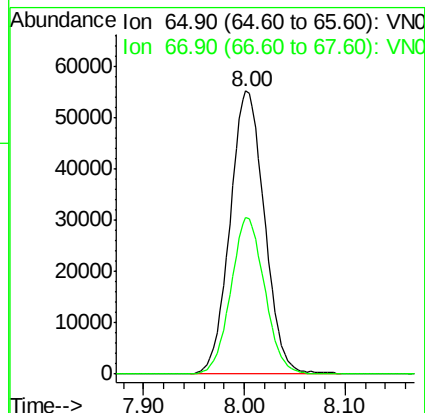
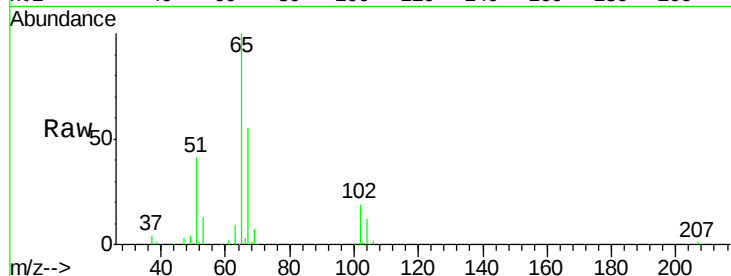
PB127814ZHE#14

Tgt Ion: 65 Resp: 131180

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

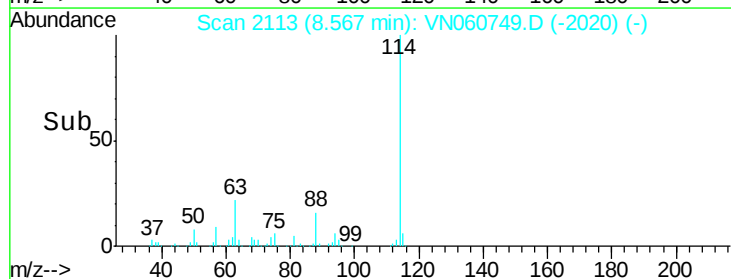
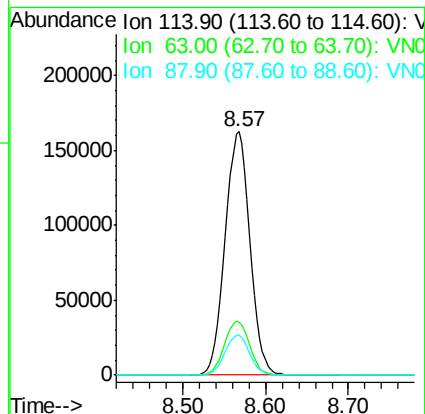
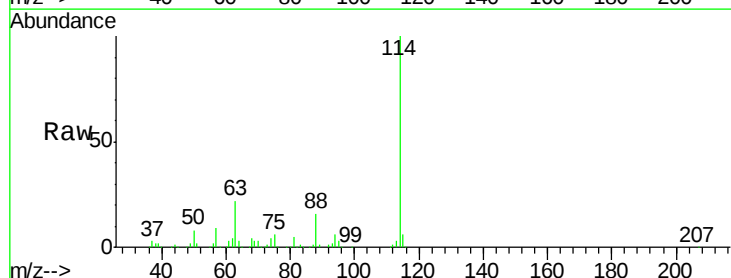
Tgt Ion: 114 Resp: 338332

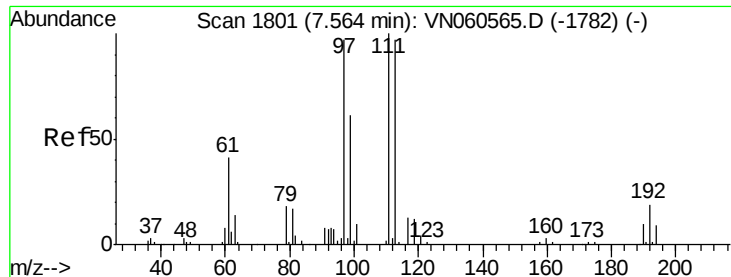
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

88 16.5 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.009 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#14

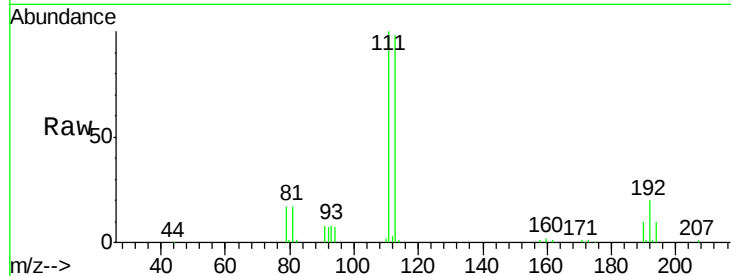
Tgt Ion:113 Resp: 100262

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

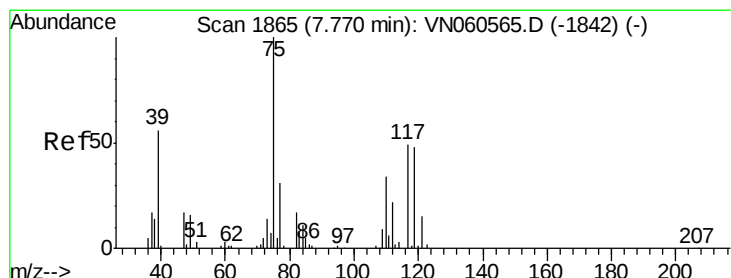
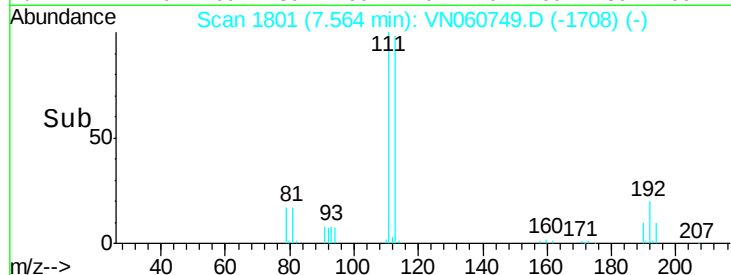
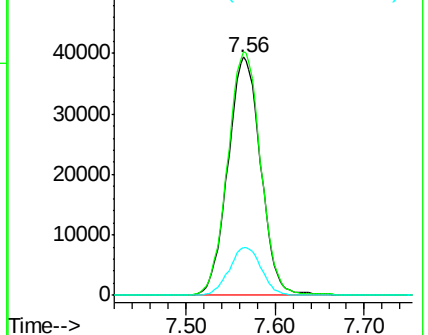
192 19.7 15.8 23.8



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: 4.927 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

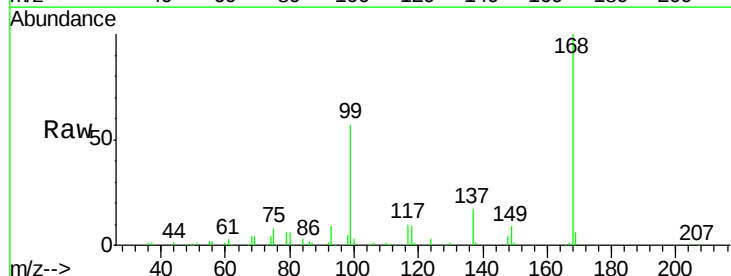
Tgt Ion: 75 Resp: 16140

Ion Ratio Lower Upper

75 100

110 7.4 16.9 50.6#

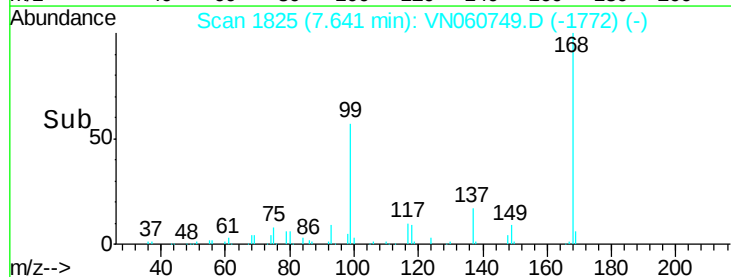
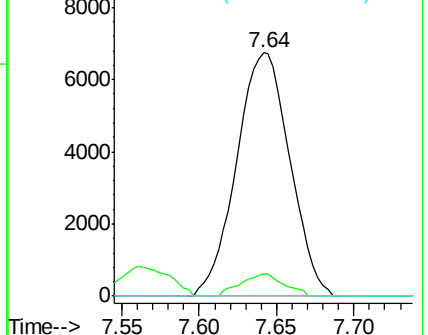
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

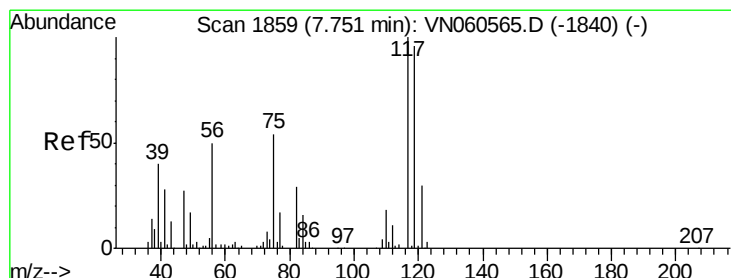
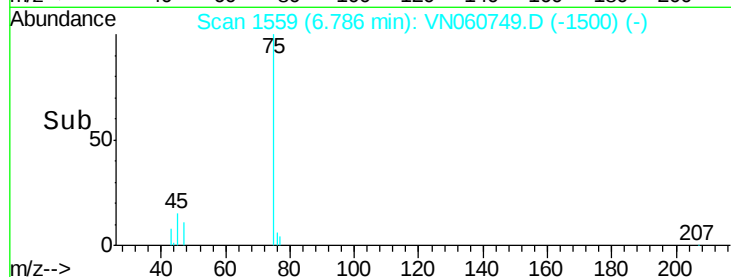
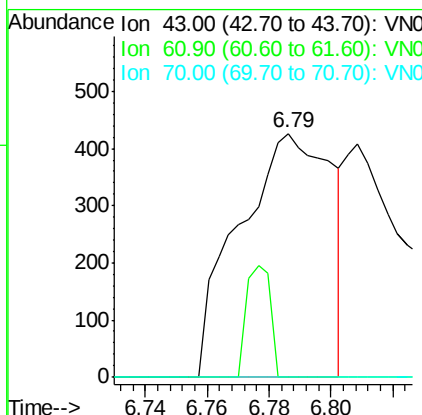
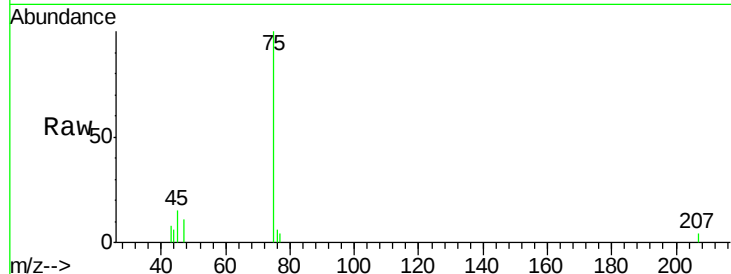




#37
 Ethyl Acetate
 Concen: 0.249 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. -0.11 min
 Lab File: VN060749.D
 Acq: 27 Mar 2020 18:11

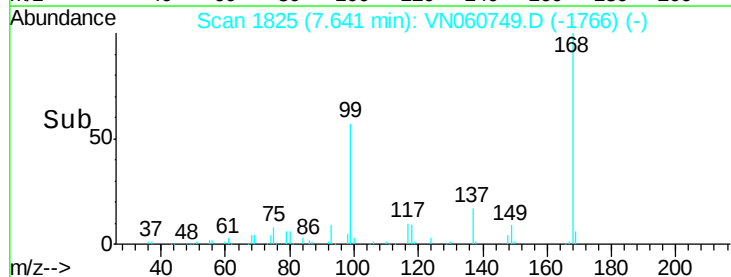
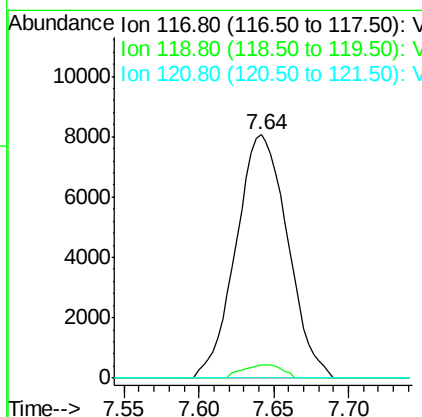
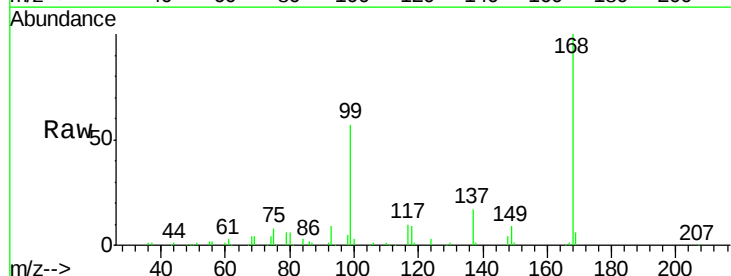
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 MSVOA_N
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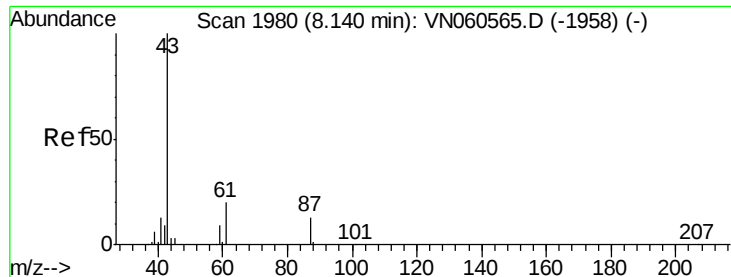
Tgt Ion: 43 Resp: 883
 Ion Ratio Lower Upper
 43 100
 61 12.0 10.6 15.8
 70 0.0 7.9 11.9#



#38
 Carbon Tetrachloride
 Concen: 6.589 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060749.D
 Acq: 27 Mar 2020 18:11

Tgt Ion: 117 Resp: 19347
 Ion Ratio Lower Upper
 117 100
 119 5.5 76.2 114.2#
 121 0.0 23.7 35.5#

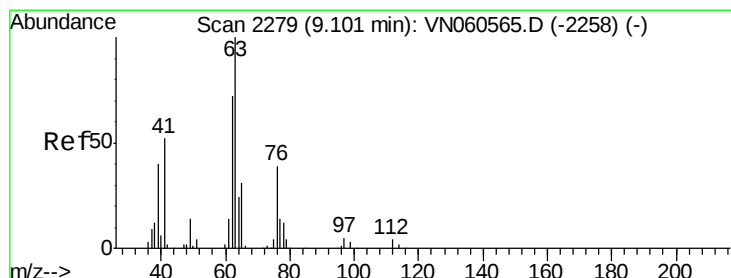
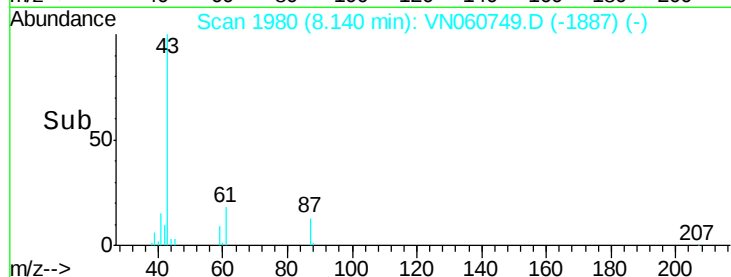
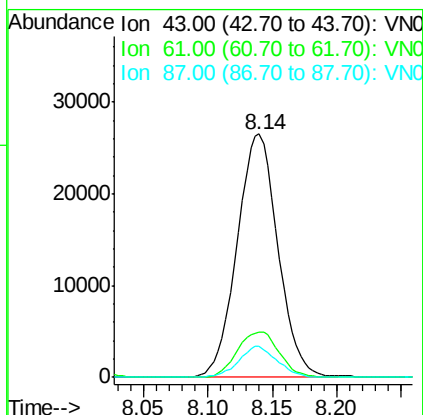
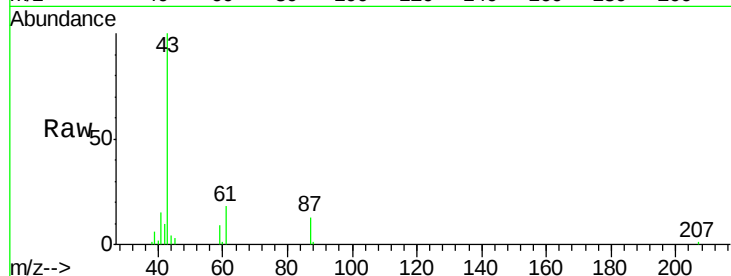




#43
Isopropyl Acetate
Concen: 10.028 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

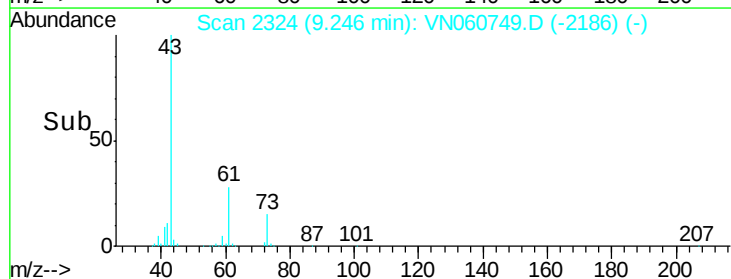
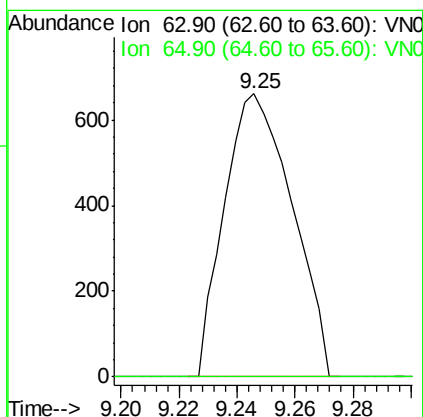
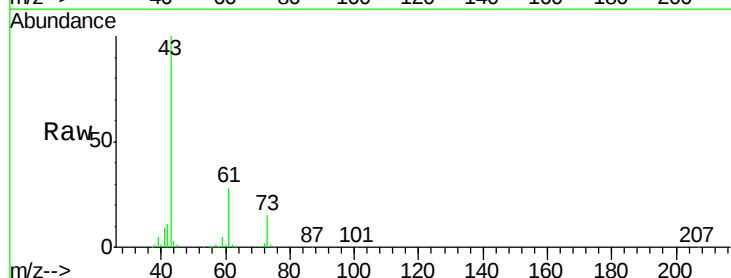
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#14

Tgt Ion: 43 Resp: 58545
Ion Ratio Lower Upper
43 100
61 19.1 20.7 31.1#
87 11.9 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.410 ug/l
RT: 9.25 min Scan# 2324
Delta R.T. 0.14 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

Tgt Ion: 63 Resp: 1071
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#

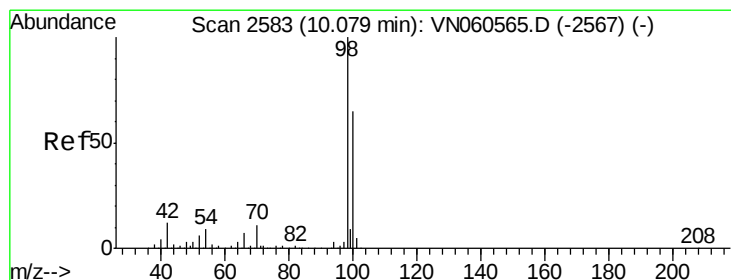
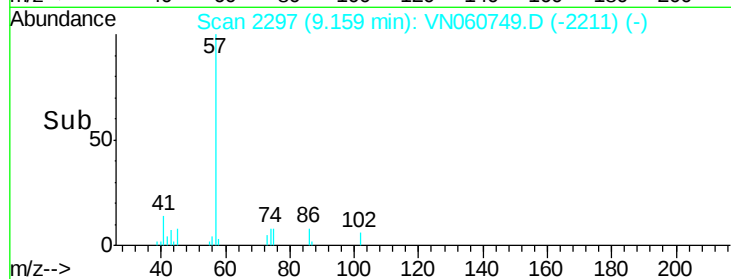
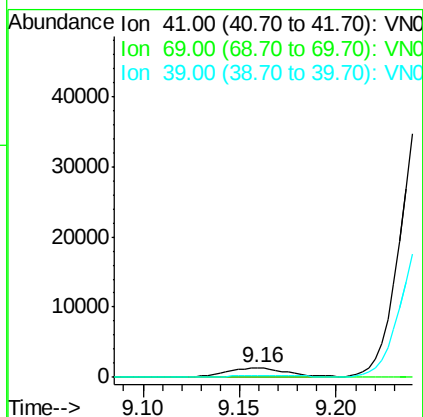
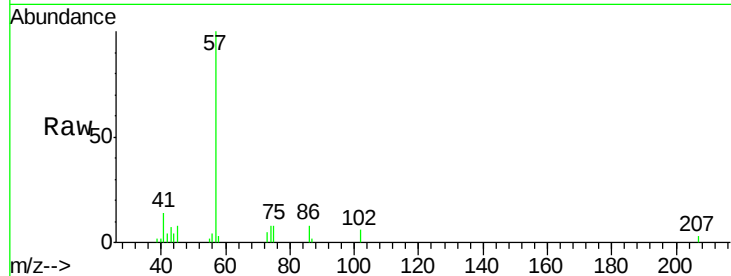




#48
Methyl methacrylate
Concen: 1.165 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

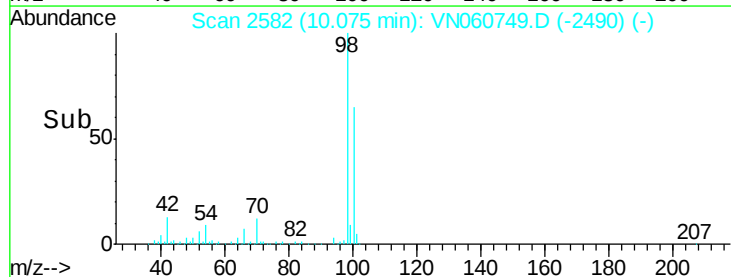
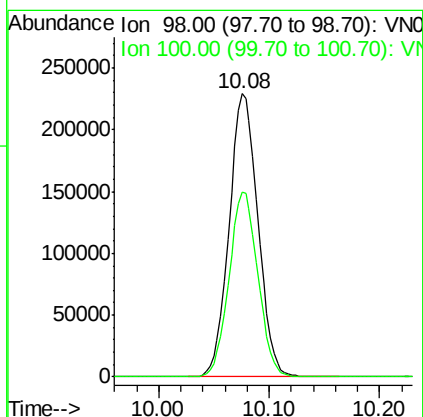
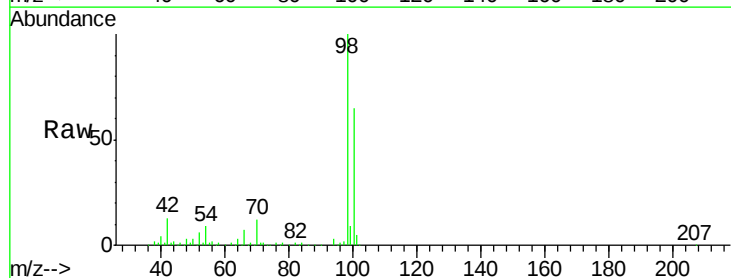
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#14

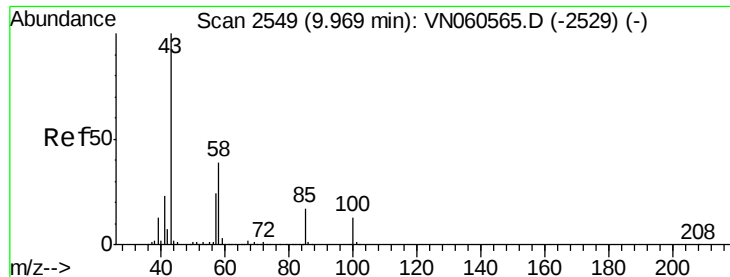
Tgt Ion: 41 Resp: 3027
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.612 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060749.D
Acq: 27 Mar 2020 18:11

Tgt Ion: 98 Resp: 414573
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8

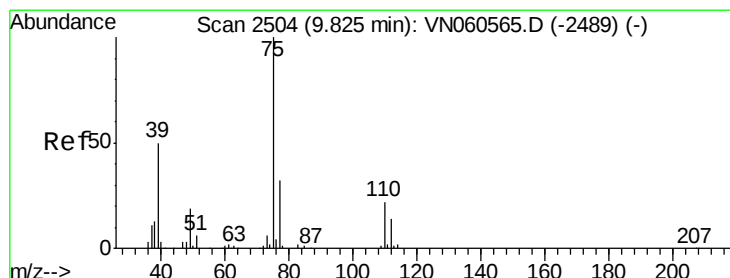
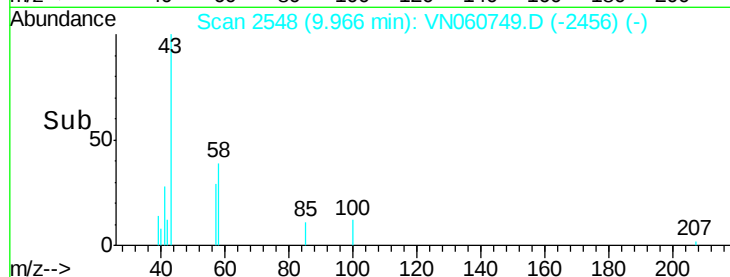
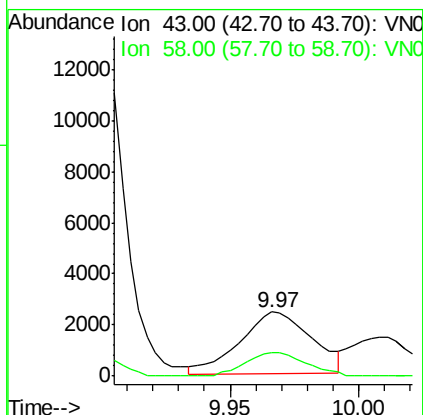
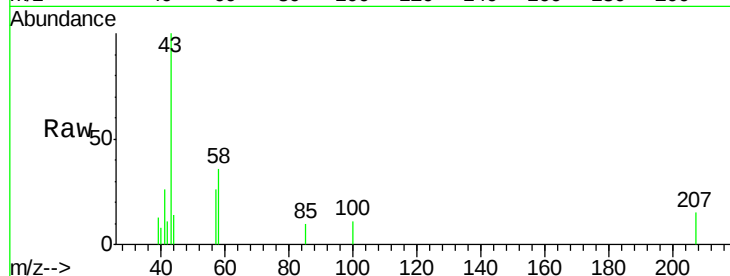




#51
 4-Methyl-2-Pentanone
 Concen: 1.425 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060749.D
 Acq: 27 Mar 2020 18:11

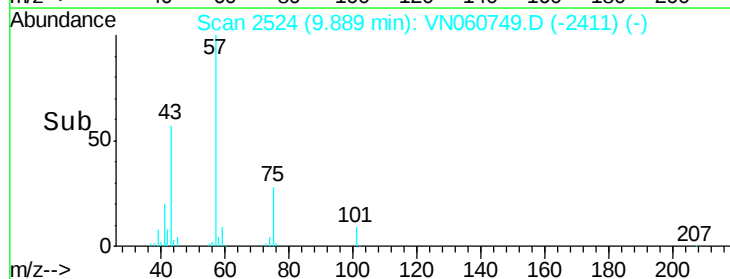
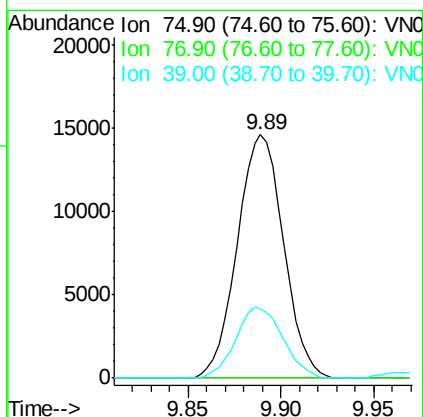
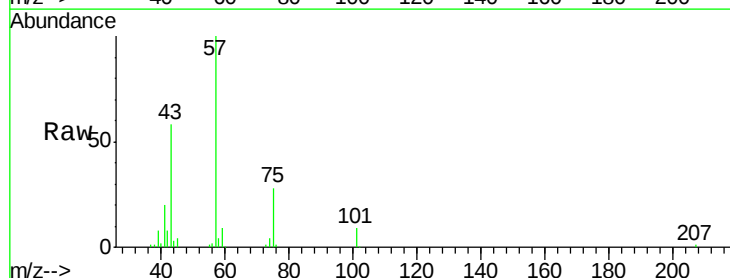
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#14

Tgt Ion: 43 Resp: 4734
 Ion Ratio Lower Upper
 43 100
 58 31.8 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 6.107 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060749.D
 Acq: 27 Mar 2020 18:11

Tgt Ion: 75 Resp: 25228
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 28.8 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 1.005 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

Instrument :

MSVOA_N

ClientSampleId :

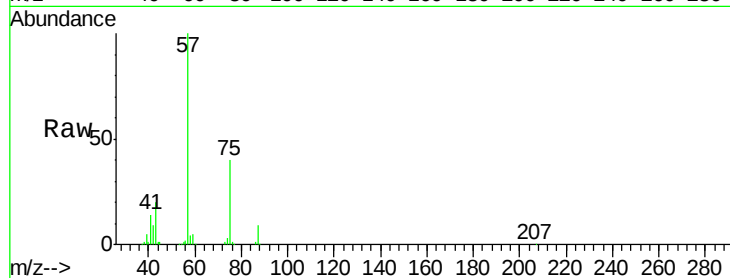
PB127814ZHE#14

Tgt Ion: 76 Resp: 4006

Ion Ratio Lower Upper

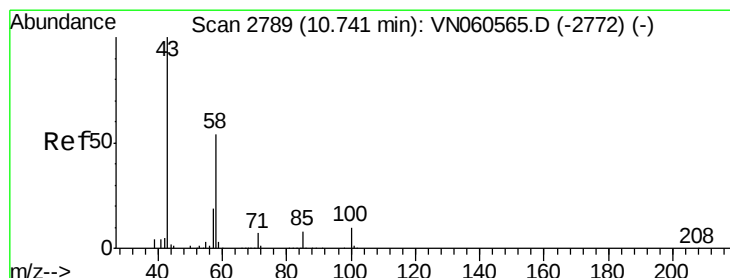
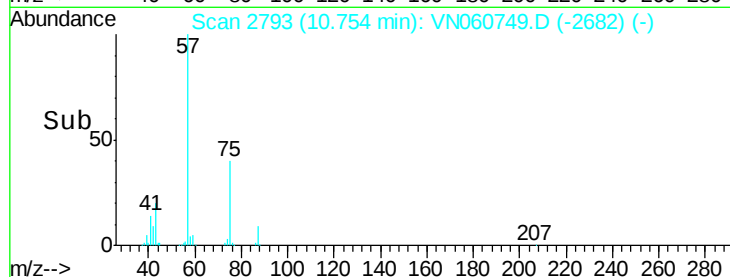
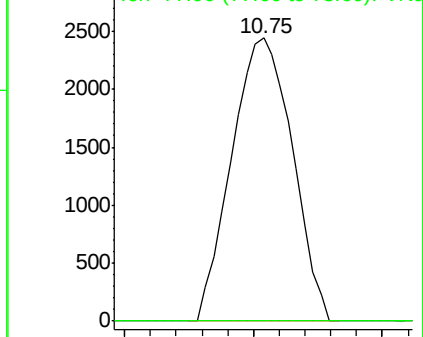
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 24.673 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060749.D

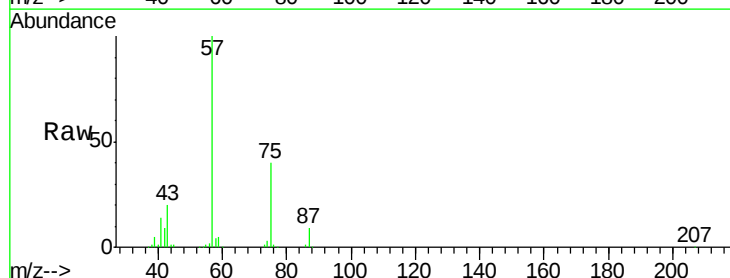
Acq: 27 Mar 2020 18:11

Tgt Ion: 43 Resp: 59044

Ion Ratio Lower Upper

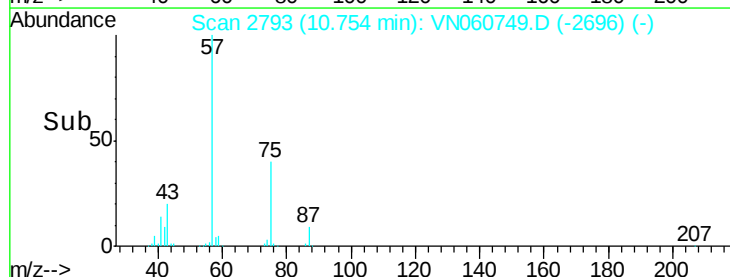
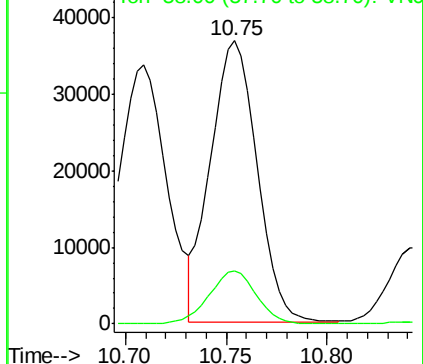
43 100

58 18.9 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: 50.770 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#14

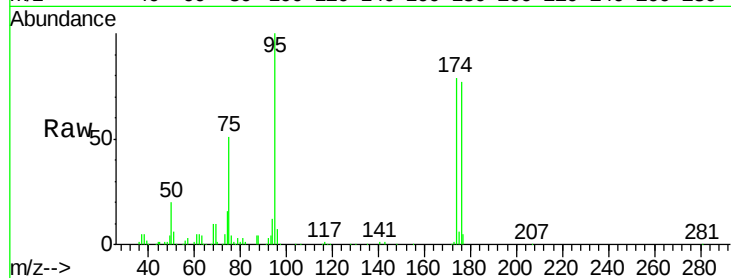
Tgt Ion: 95 Resp: 155479

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

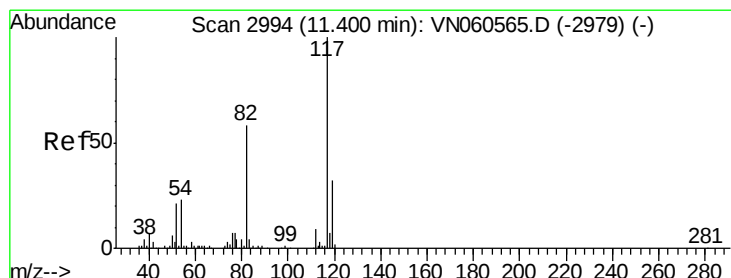
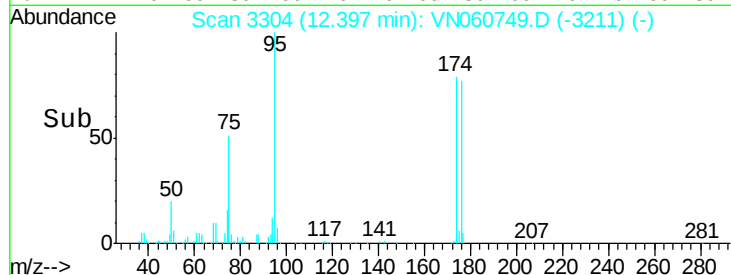
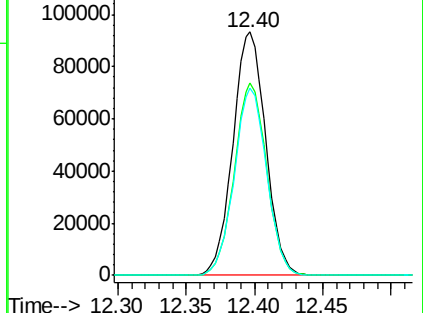
176 76.1 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060749.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060749.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060749.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

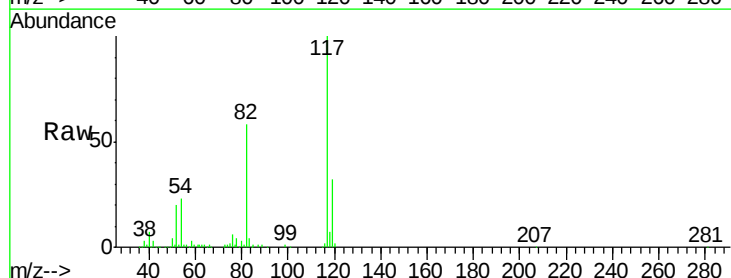
Tgt Ion: 117 Resp: 317322

Ion Ratio Lower Upper

117 100

82 58.3 46.7 70.1

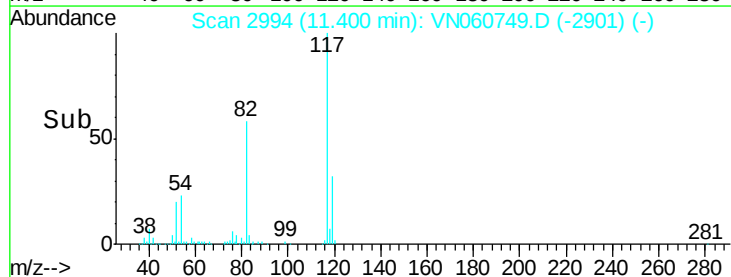
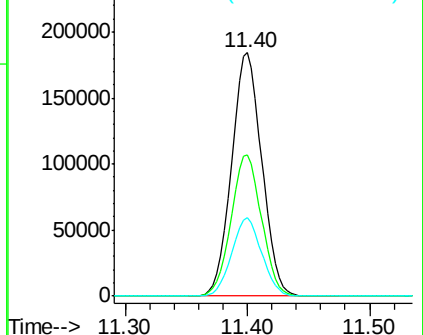
119 32.2 25.5 38.3

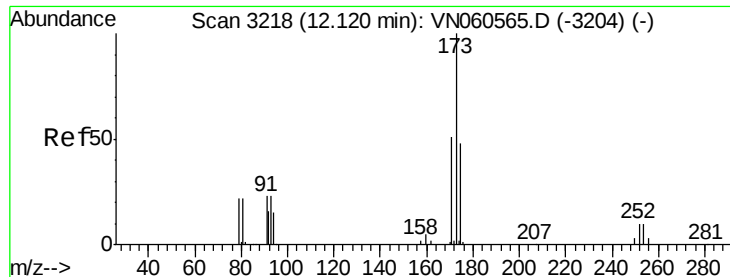


Abundance Ion 116.90 (116.60 to 117.60): VN060749.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060749.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060749.D (-2901) (-)





#71

Bromoform

Concen: 2.177 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#14

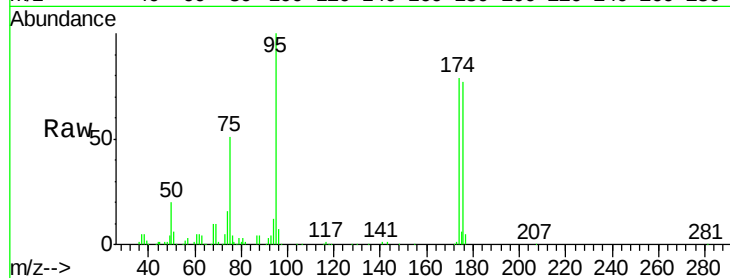
Tgt Ion:173 Resp: 972

Ion Ratio Lower Upper

173 100

175 790.4 24.1 72.4#

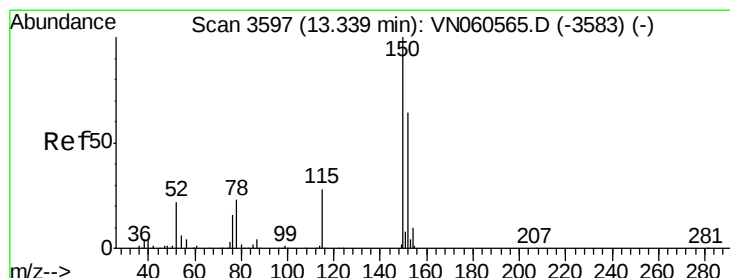
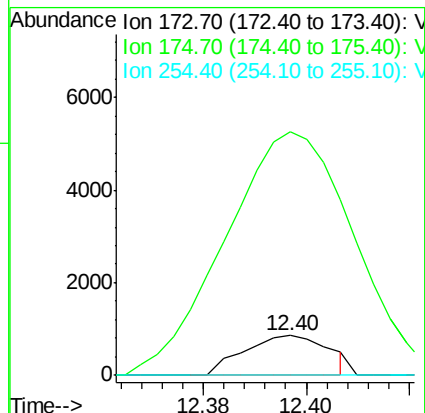
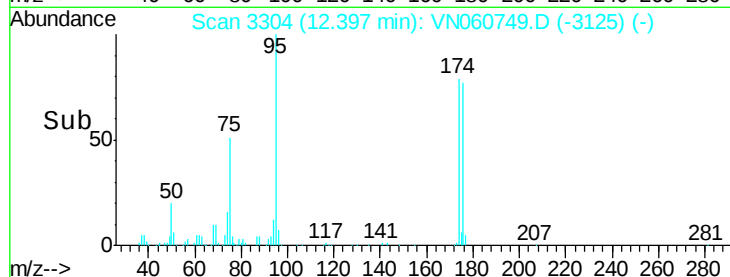
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

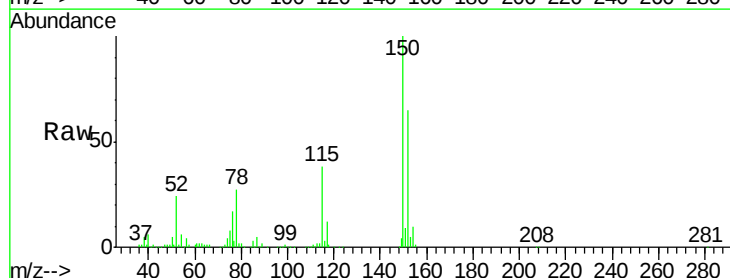
Tgt Ion:152 Resp: 144186

Ion Ratio Lower Upper

152 100

115 60.1 30.2 90.6

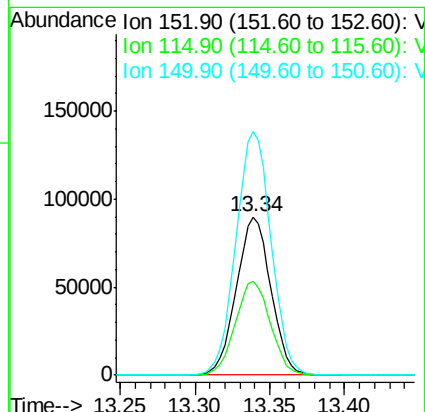
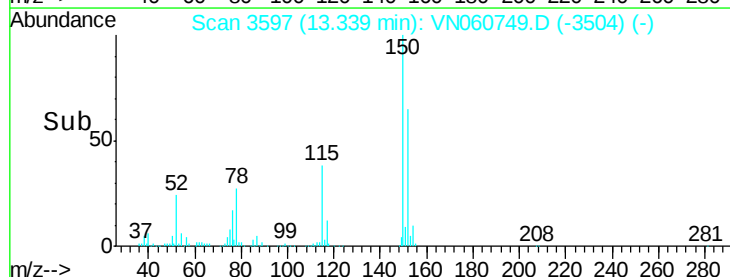
150 157.0 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.449 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060749.D

Acq: 27 Mar 2020 18:11

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#14

Tgt Ion: 43 Resp: 2247

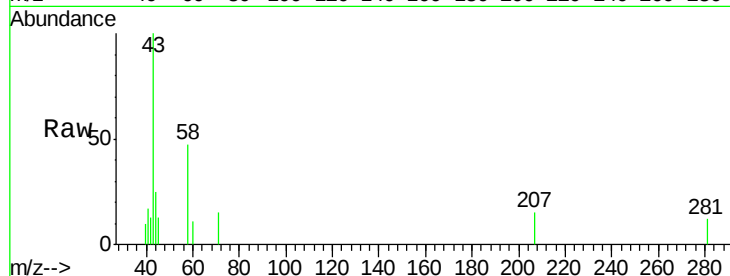
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

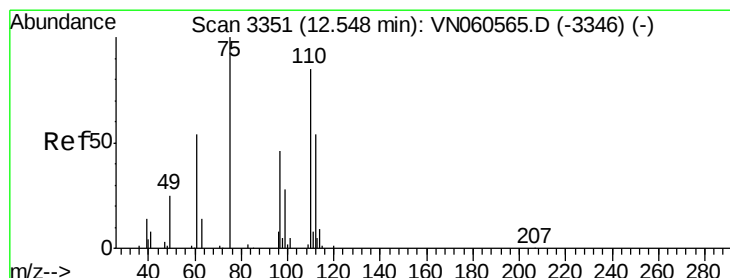
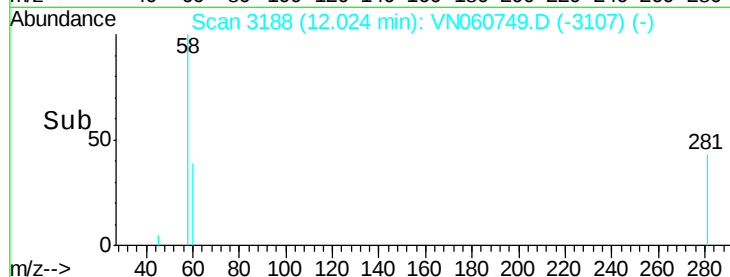
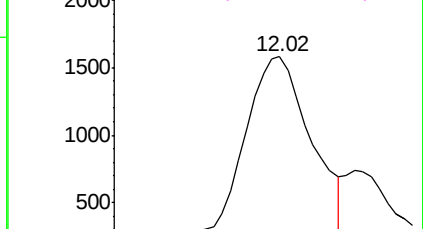


Abundance Ion 43.00 (42.70 to 43.70): VN060749.D (-3184) (-)

Ion 70.00 (69.70 to 70.70): VN060749.D (-3184) (-)

Ion 55.00 (54.70 to 55.70): VN060749.D (-3184) (-)

Ion 61.00 (60.70 to 61.70): VN060749.D (-3184) (-)



#76

1,2,3-Trichloropropane

Concen: 25.243 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060749.D

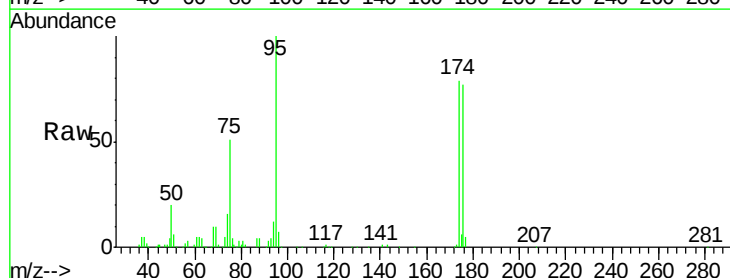
Acq: 27 Mar 2020 18:11

Tgt Ion: 75 Resp: 78538

Ion Ratio Lower Upper

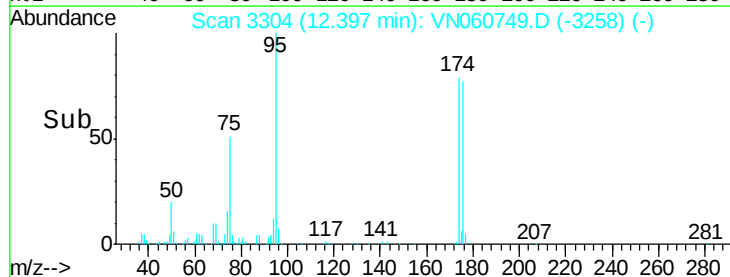
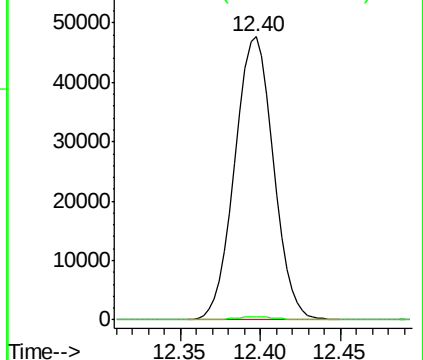
75 100

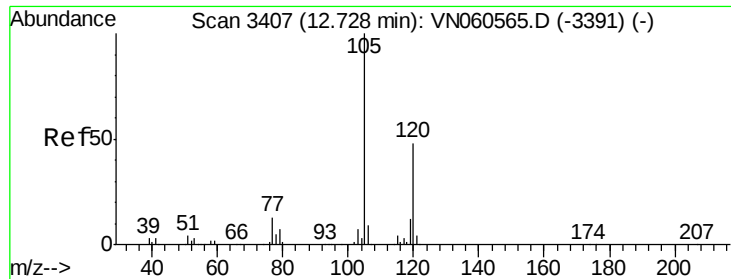
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060749.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060749.D (-3304) (-)

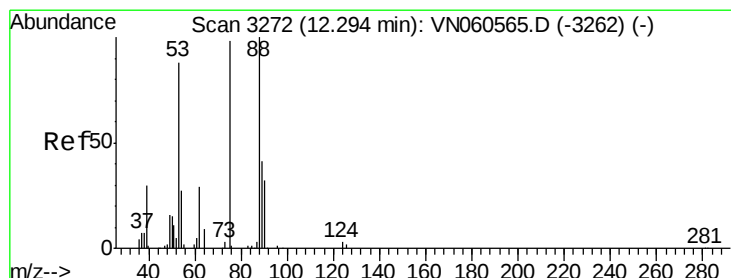
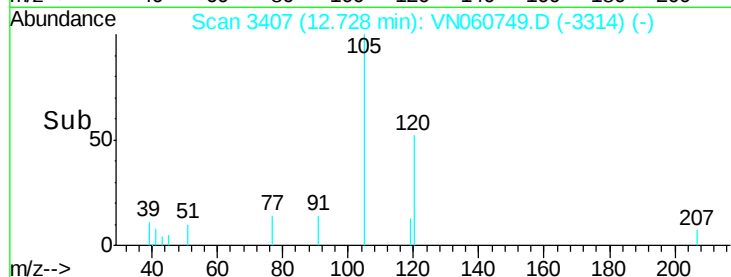
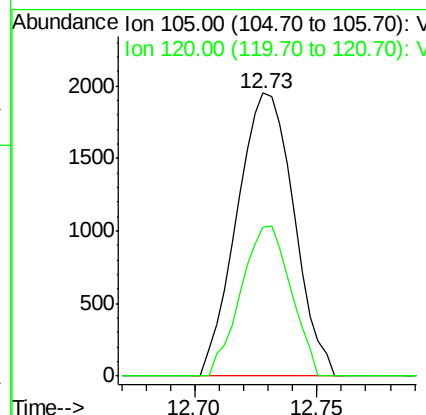
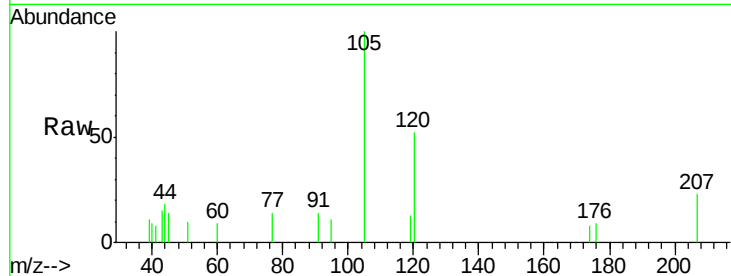




#80
 1,3,5-Trimethylbenzene
 Concen: 0.344 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060749.D
 Acq: 27 Mar 2020 18:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#14

Tgt Ion: 105 Resp: 3162
 Ion Ratio Lower Upper
 105 100
 120 46.4 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.832 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060749.D
 Acq: 27 Mar 2020 18:11

Tgt Ion: 75 Resp: 78538
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

