

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060530.D
 Acq On : 16 Mar 2020 17:53
 Operator : JC/MD
 Sample : PB127541ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#03

Quant Time: Mar 17 08:46:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	204540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	337425	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	316837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146282	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	133087	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
35) Dibromofluoromethane	7.57	113	100934	64.44	ug/l	0.00
Spiked Amount			Recovery	=	128.88%	
50) Toluene-d8	10.08	98	418552	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	
62) 4-Bromofluorobenzene	12.40	95	156900	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	

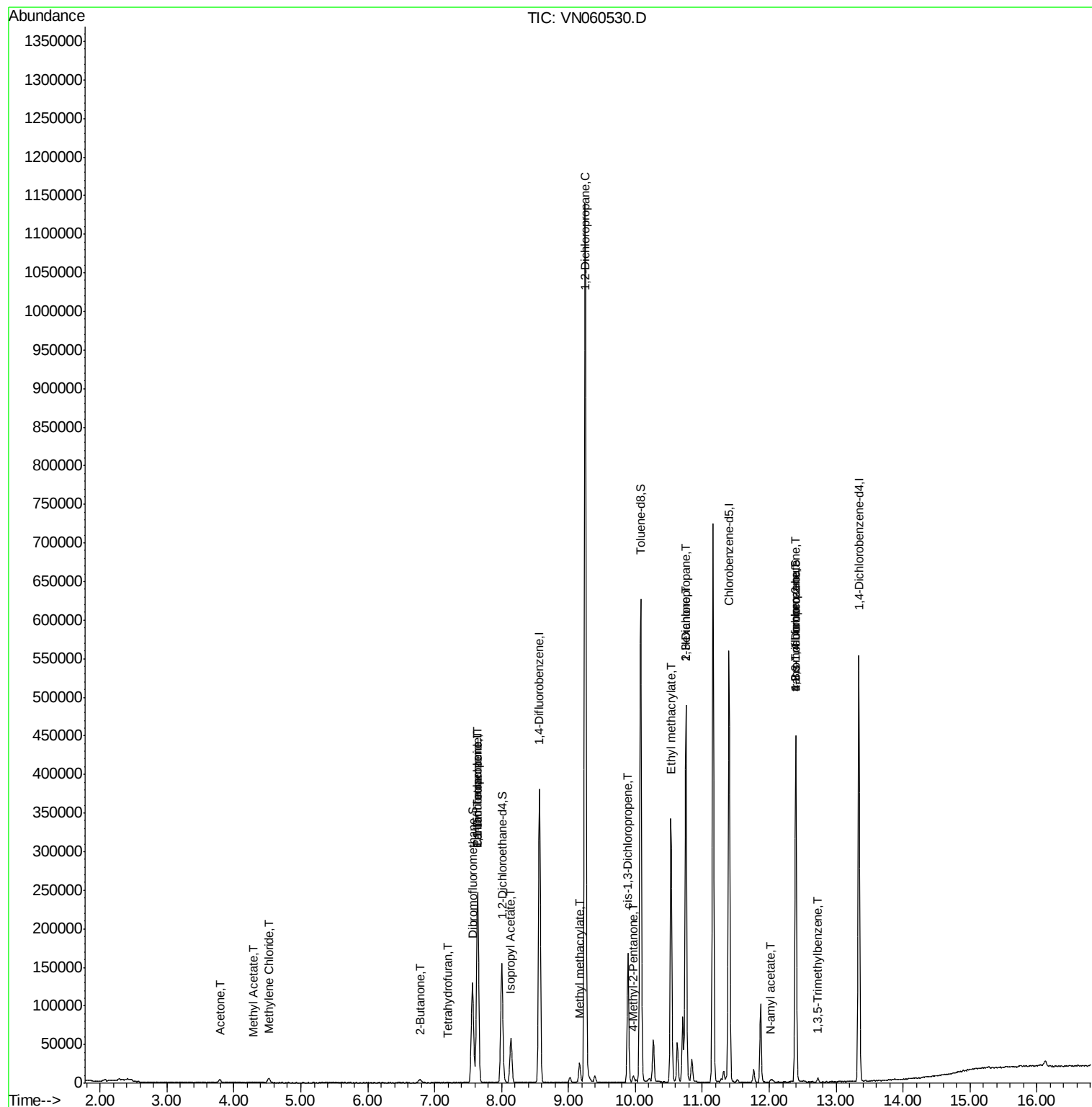
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6908	8.151	ug/l	96
18) Methyl Acetate	4.29	43	1950	0.690	ug/l #	52
20) Methylene Chloride	4.52	84	4074	1.750	ug/l	97
25) 2-Butanone	6.80	43	514	0.375	ug/l #	49
29) Tetrahydrofuran	7.19	42	310	0.326	ug/l #	33
31) Cyclohexane	7.64	56	4192	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15718	4.888	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19449	6.212	ug/l #	16
43) Isopropyl Acetate	8.14	43	71061	13.330	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1290	0.527	ug/l #	44
48) Methyl methacrylate	9.16	41	3500	1.440	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5959	1.972	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	30102	7.341	ug/l #	57
56) Ethyl methacrylate	10.53	69	737	0.217	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	5040	1.307	ug/l #	42
59) 2-Hexanone	10.75	43	72707	32.763	ug/l #	52
74) N-amyl acetate	12.02	43	3201	0.676	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	80054	24.943	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3078	0.337	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	80054	68.855	ug/l #	8
87) 1,3-Dichlorobenzene	13.35	146	58	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.35	146	58	Below Cal	#	26
95) Naphthalene	15.13	128	134	Below Cal	#	69

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

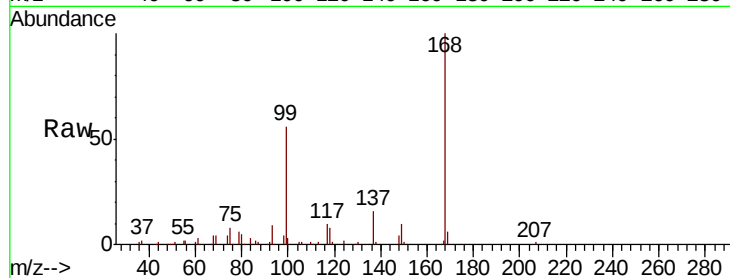
PB127541ZHE#03

Tot Ion:168 Resp: 204540

Ion Ratio Lower Upper

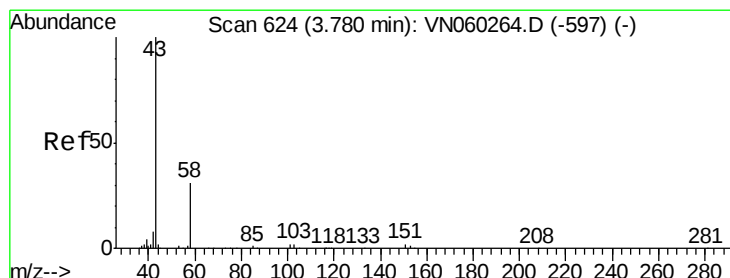
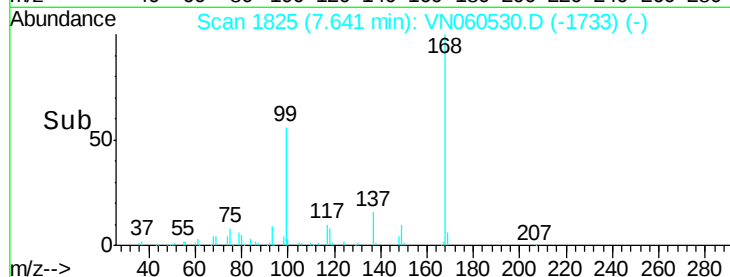
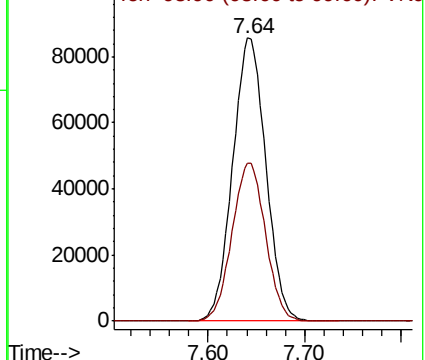
168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 8.151 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060530.D

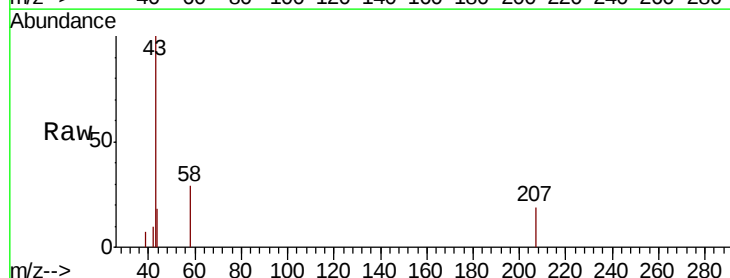
Acq: 16 Mar 2020 17:53

Tgt Ion: 43 Resp: 6908

Ion Ratio Lower Upper

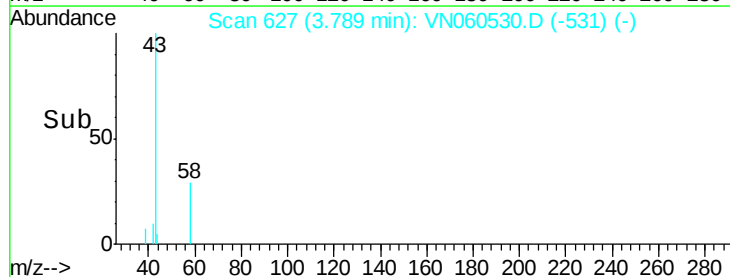
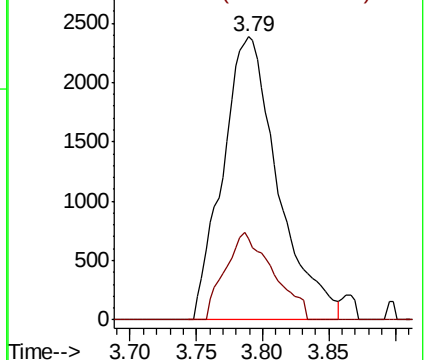
43 100

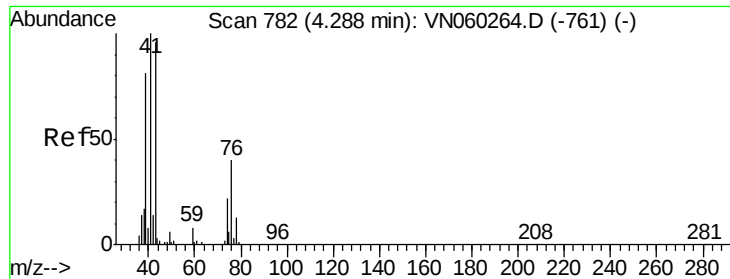
58 28.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

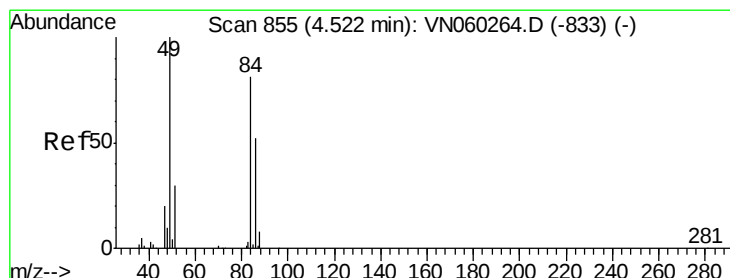
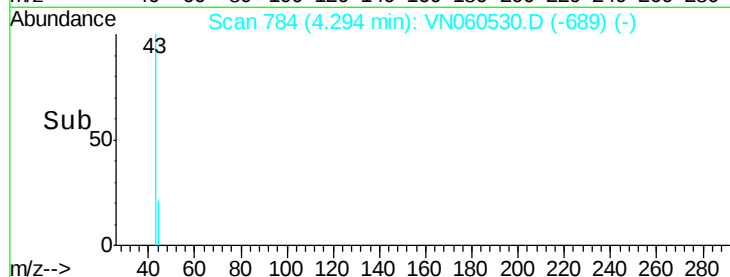
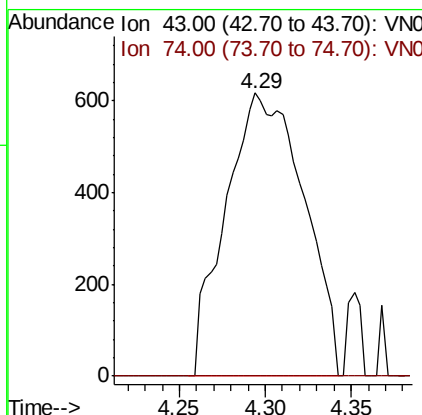
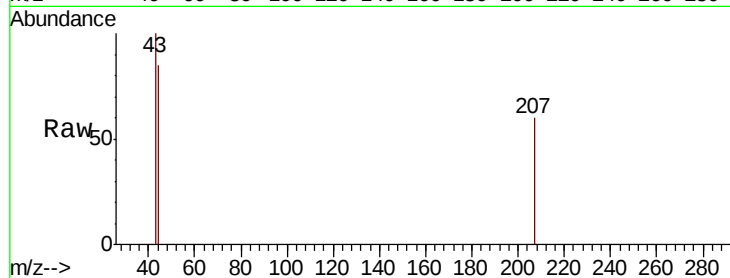




#18
Methvl Acetate
Concen: 0.690 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060530.D
Acq: 16 Mar 2020 17:53

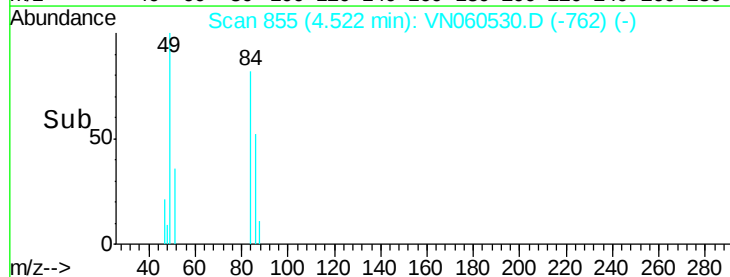
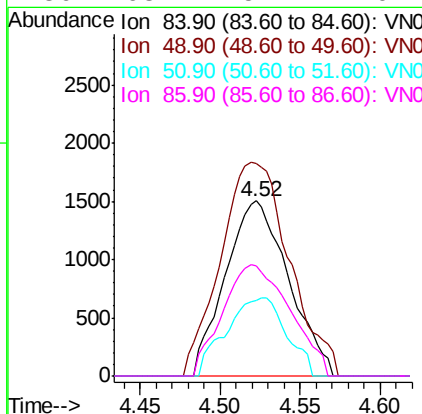
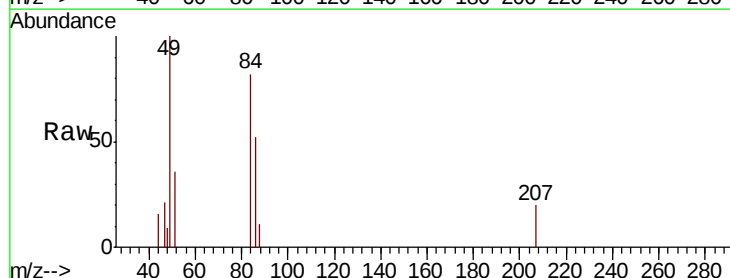
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#03

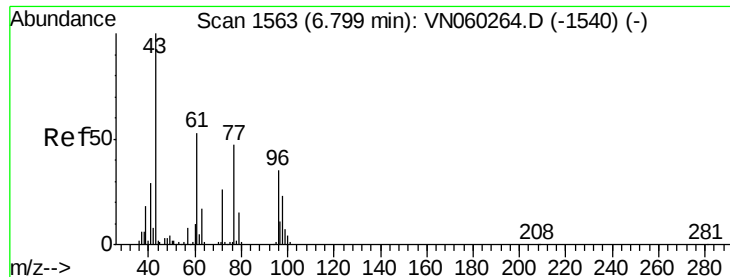
Tot Ion: 43 Resp: 1950
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.750 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060530.D
Acq: 16 Mar 2020 17:53

Tgt Ion: 84 Resp: 4074
Ion Ratio Lower Upper
84 100
49 121.4 99.3 148.9
51 43.3 30.1 45.1
86 63.2 51.1 76.7





#25

2-Butanone

Concen: 0.375 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

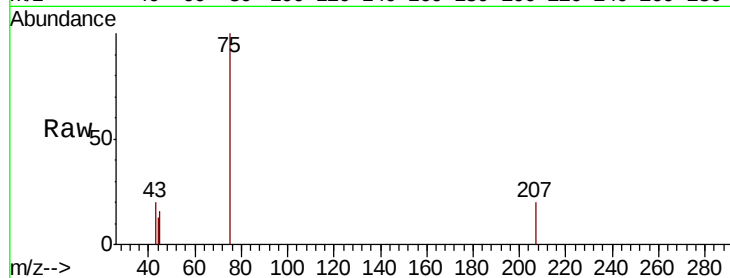
PB127541ZHE#03

Tot Ion: 43 Resp: 514

Ion Ratio Lower Upper

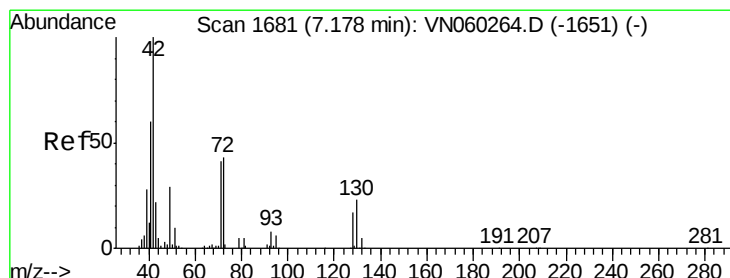
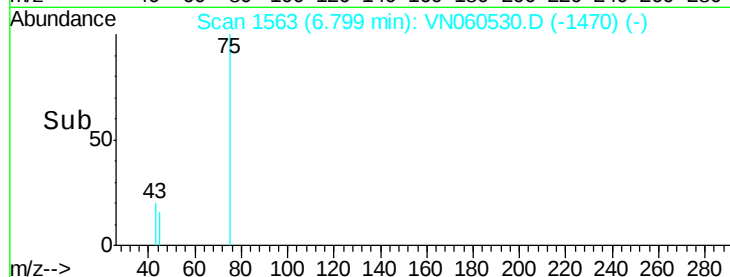
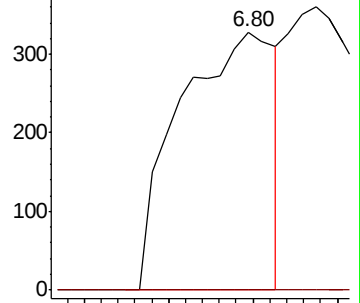
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.326 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

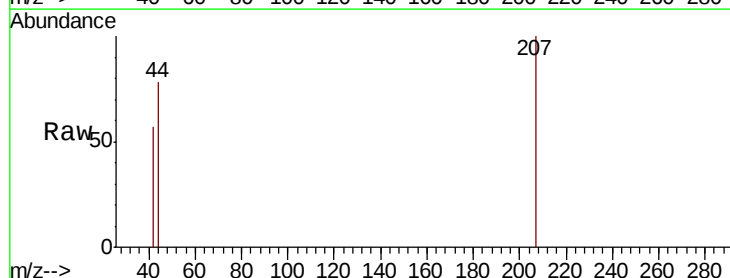
Tgt Ion: 42 Resp: 310

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

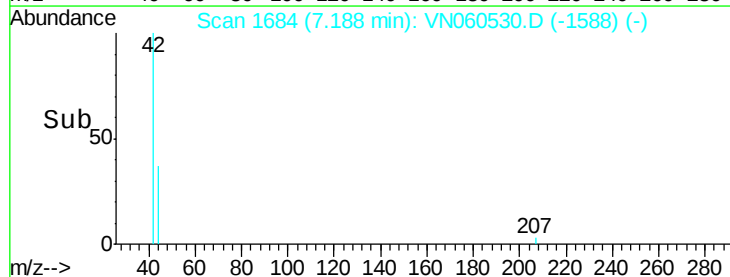
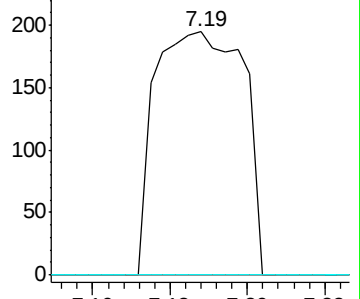
71 0.0 32.9 49.3#

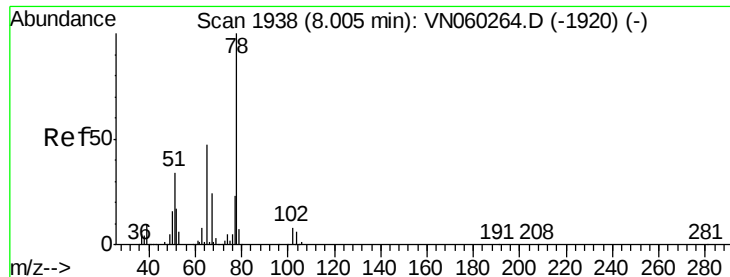


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

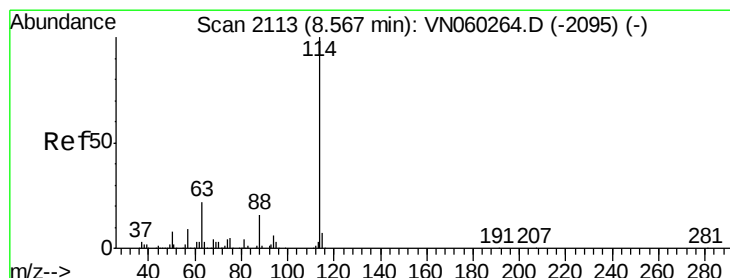
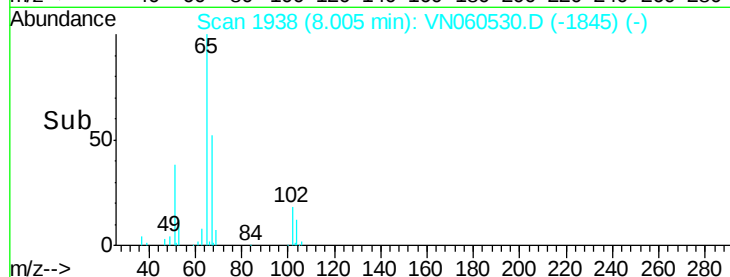
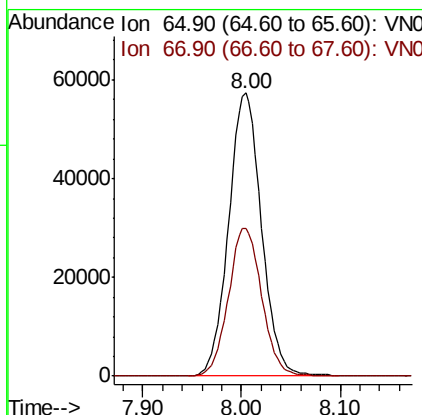
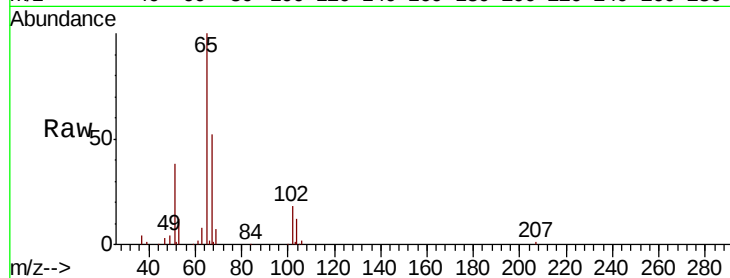




#33
 1,2-Dichloroethane-d4
 Concen: 50.714 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060530.D
 Acq: 16 Mar 2020 17:53

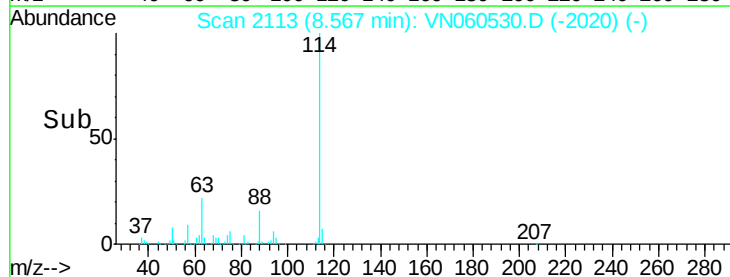
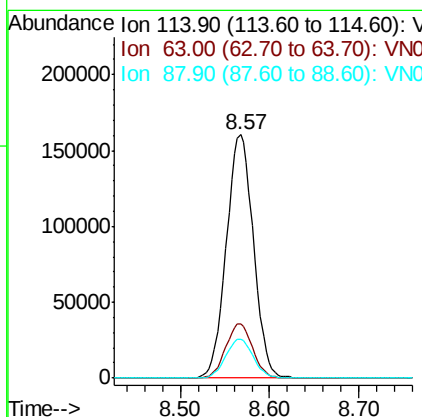
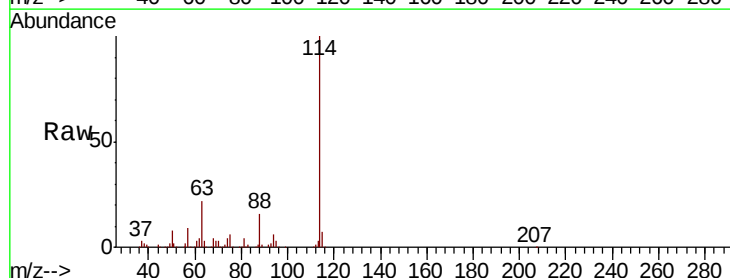
Instrument :
 MSVOA_N
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 PB127541ZHE#03

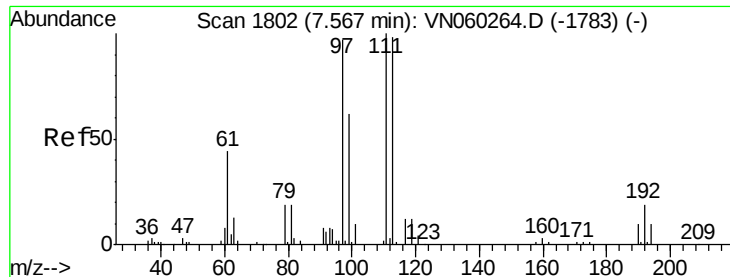
Tot Ion: 65 Resp: 133087
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060530.D
 Acq: 16 Mar 2020 17:53

Tgt Ion: 114 Resp: 337425
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.2
 88 16.2 0.0 31.6

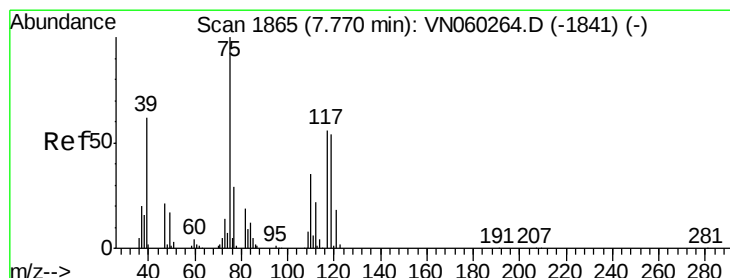
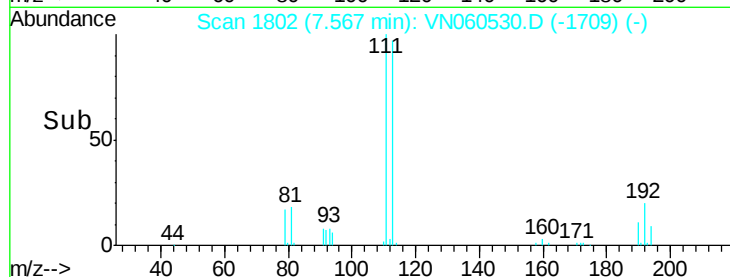
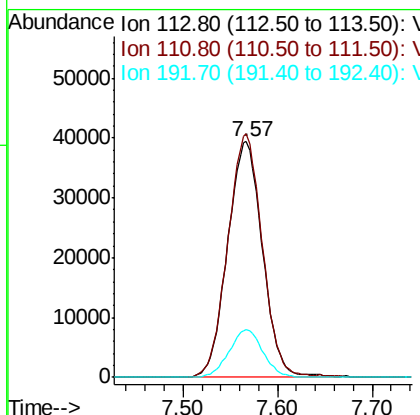
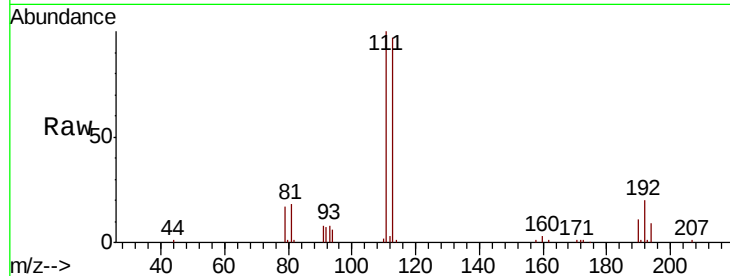




#35
 Dibromofluoromethane
 Concen: 64.444 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060530.D
 Acq: 16 Mar 2020 17:53

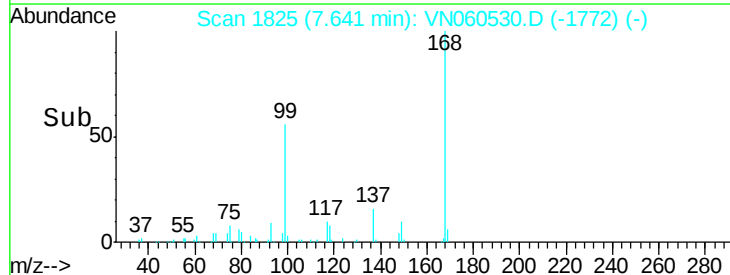
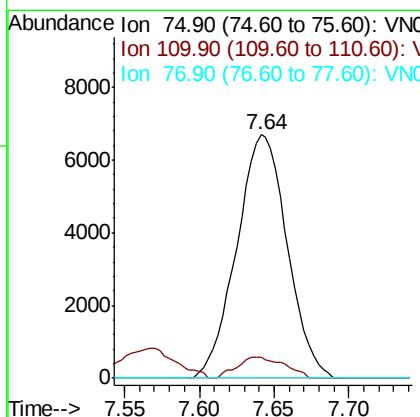
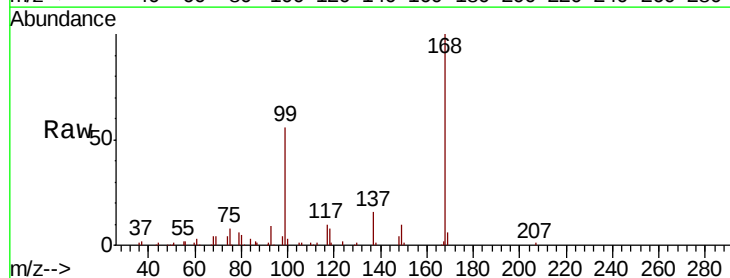
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#03

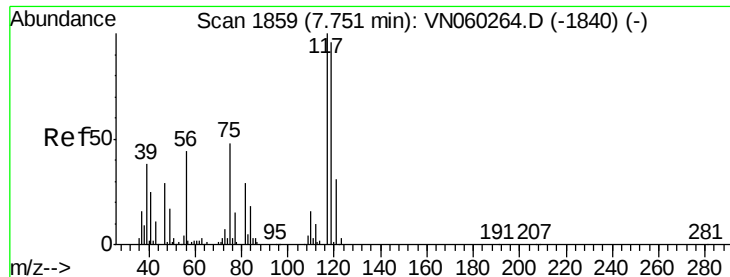
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.4	123.6
192	19.6	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.888 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060530.D
 Acq: 16 Mar 2020 17:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.212 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#03

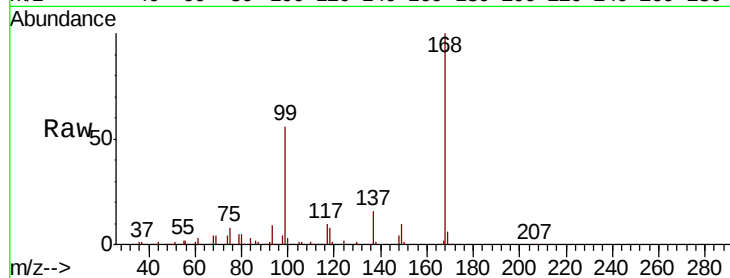
Tot Ion:117 Resp: 19449

Ion Ratio Lower Upper

117 100

119 5.5 76.7 115.1#

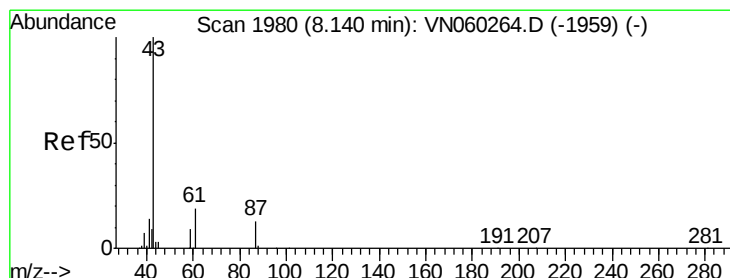
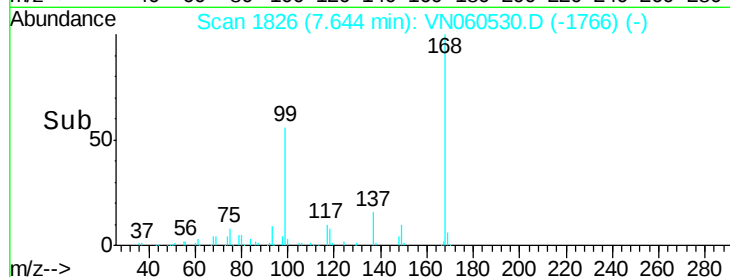
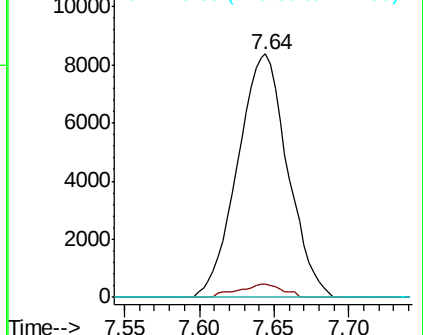
121 0.0 24.5 36.7#



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



#43

Isopropyl Acetate

Concen: 13.330 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

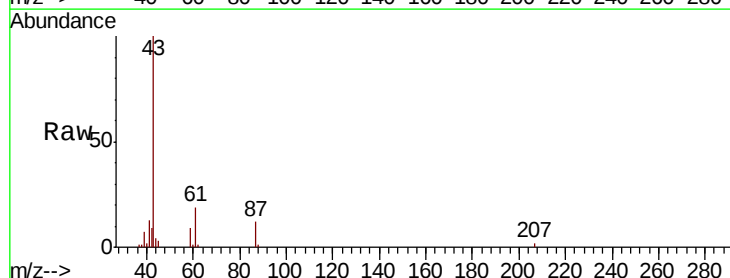
Tgt Ion: 43 Resp: 71061

Ion Ratio Lower Upper

43 100

61 19.2 20.9 31.3#

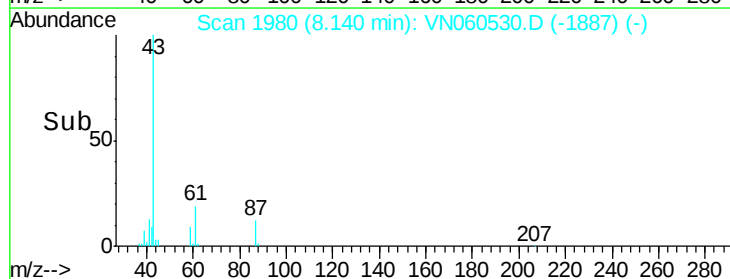
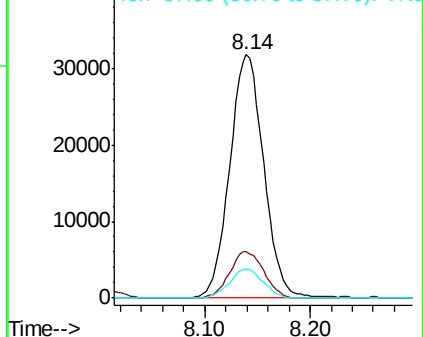
87 11.7 10.6 16.0

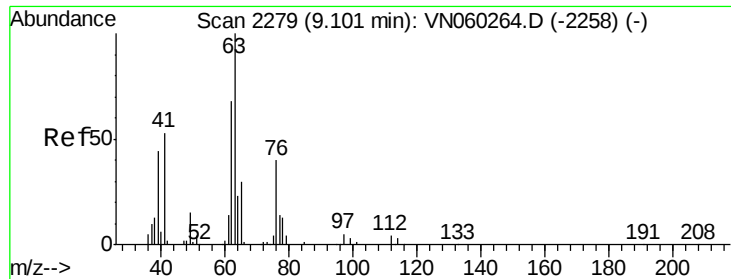


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.527 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

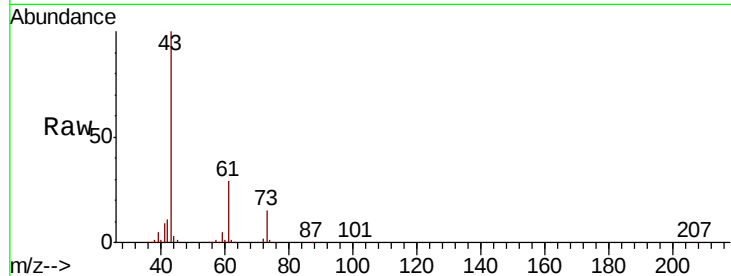
PB127541ZHE#03

Tot Ion: 63 Resp: 1290

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

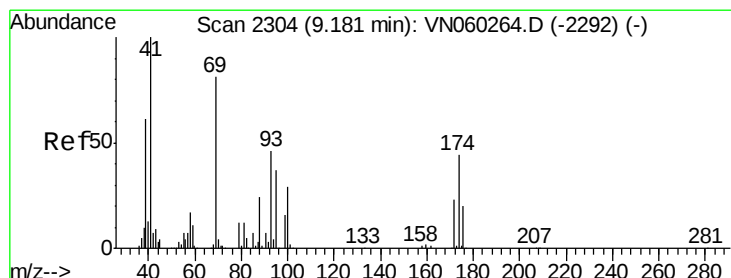
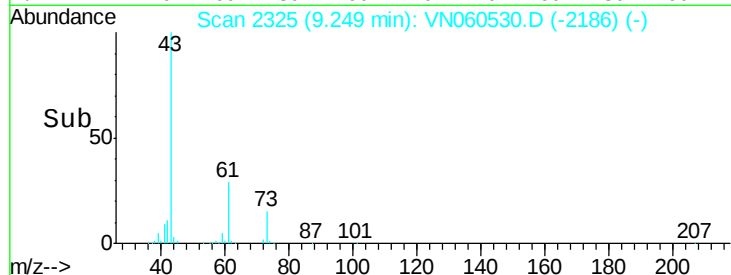
600

400

200

0

Time--> 9.20 9.25



#48

Methyl methacrylate

Concen: 1.440 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

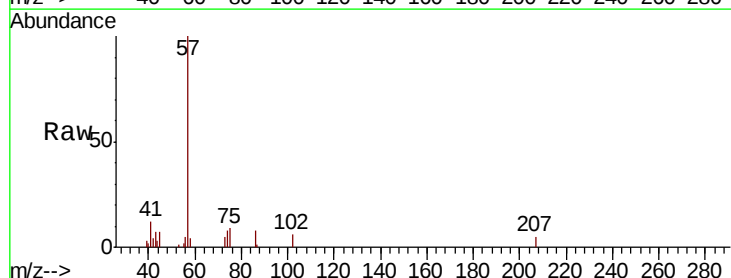
Tgt Ion: 41 Resp: 3500

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



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

60000

50000

40000

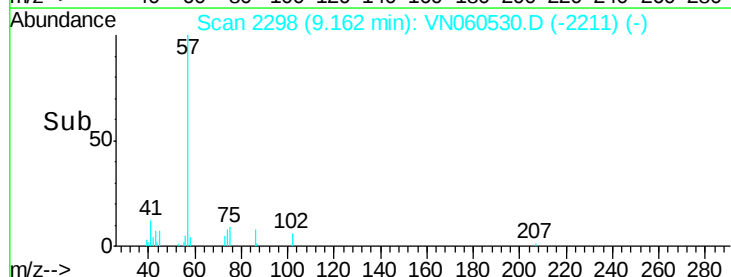
30000

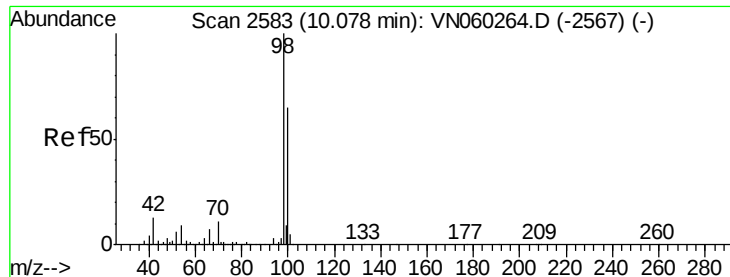
20000

10000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 52.802 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

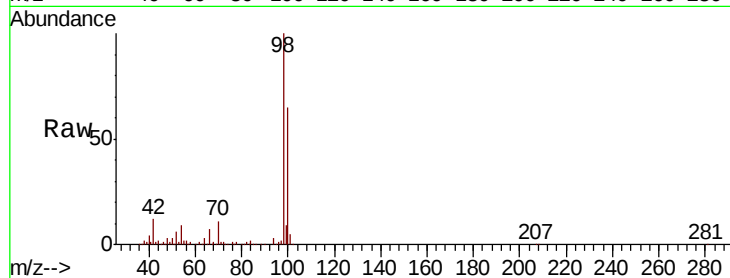
PB127541ZHE#03

Tot Ion: 98 Resp: 41852

Ion Ratio Lower Upper

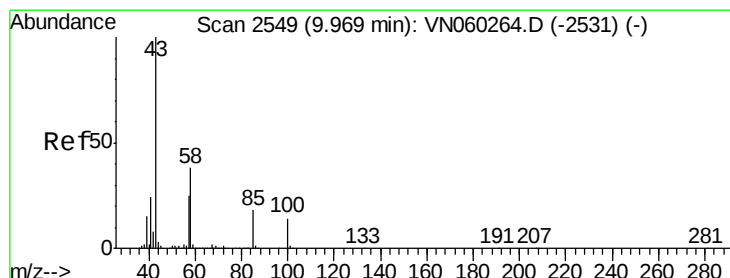
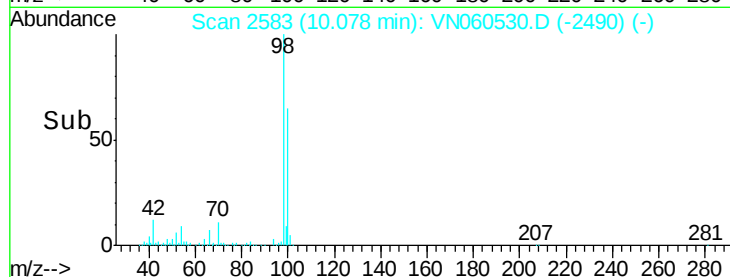
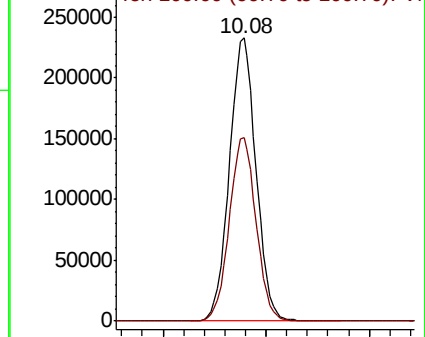
98 100

100 65.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.972 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060530.D

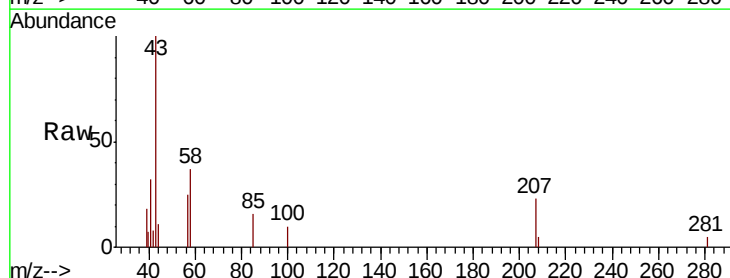
Acq: 16 Mar 2020 17:53

Tgt Ion: 43 Resp: 5959

Ion Ratio Lower Upper

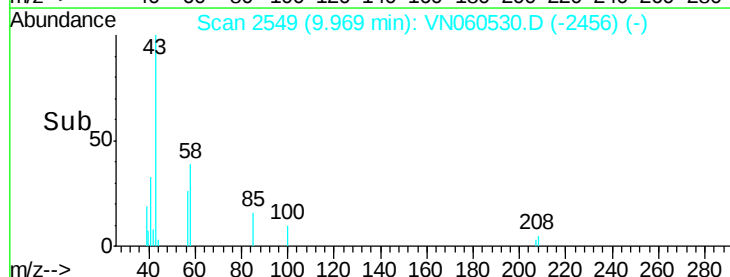
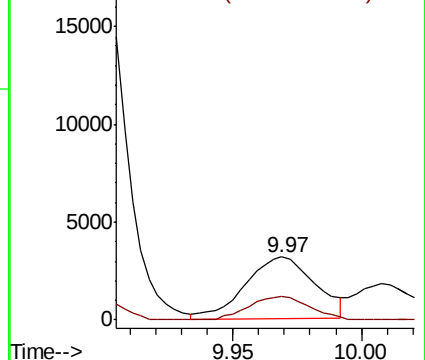
43 100

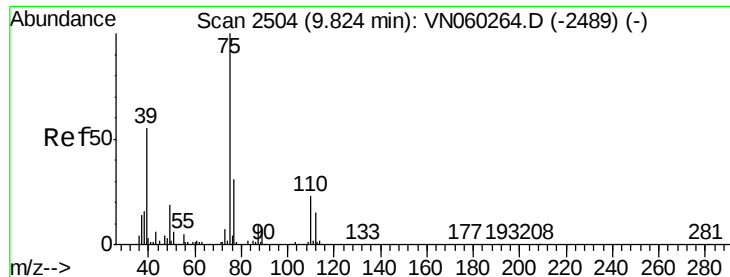
58 32.7 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 7.341 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#03

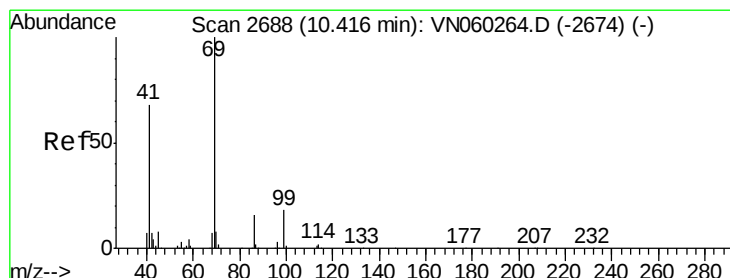
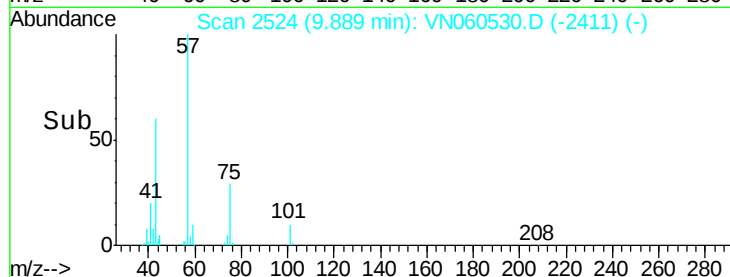
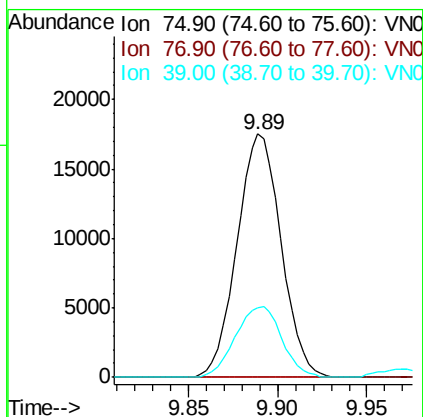
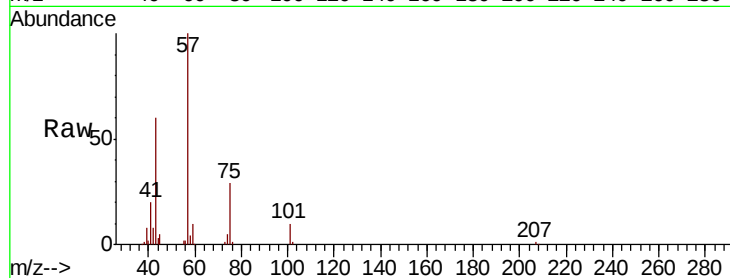
Tot Ion: 75 Resp: 30102

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 28.8 43.8 65.8#



#56

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 10.53 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

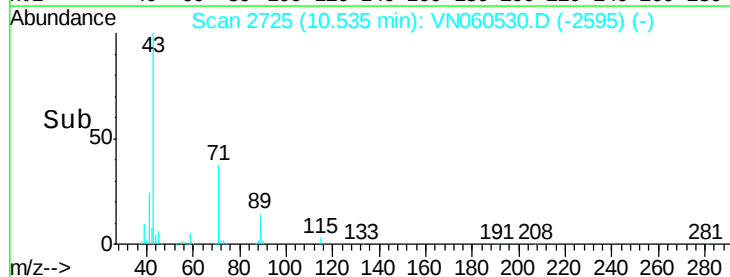
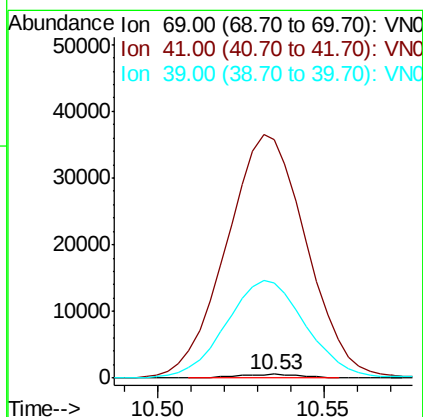
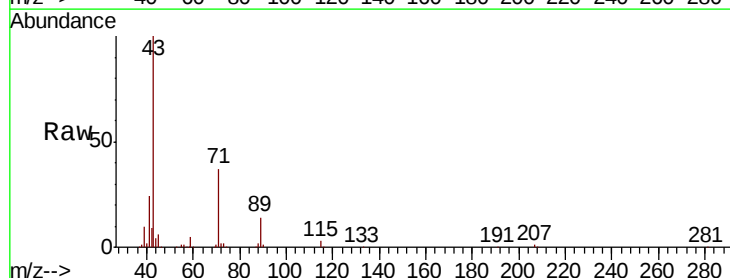
Tgt Ion: 69 Resp: 737

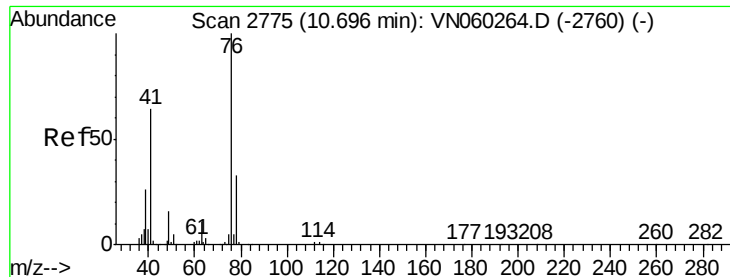
Ion Ratio Lower Upper

69 100

41 8321.7 54.1 81.1#

39 3342.1 32.5 48.7#





#57

1,3-Dichloropropane

Concen: 1.307 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

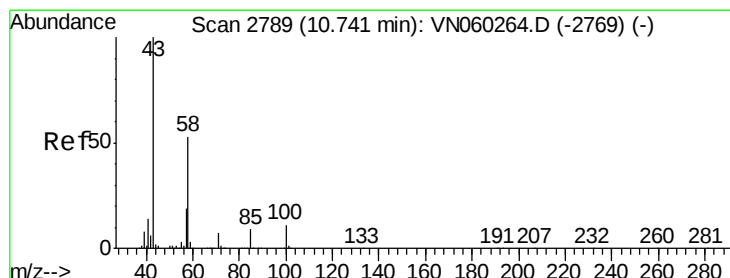
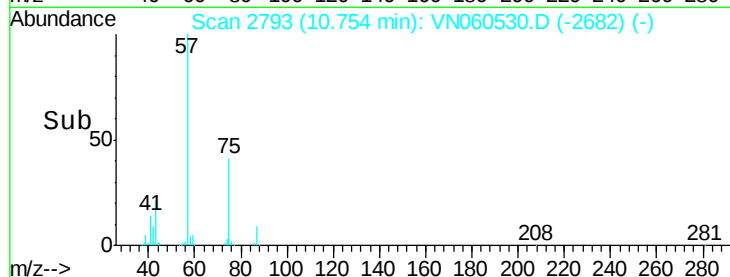
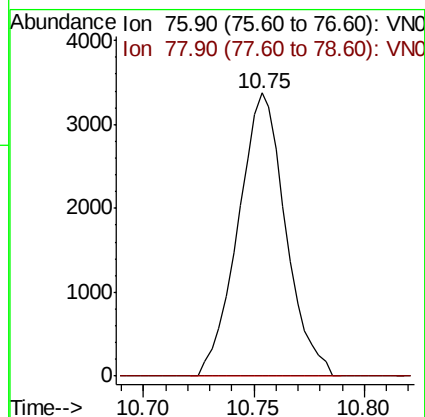
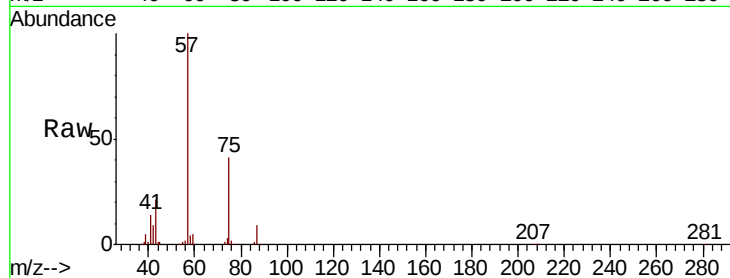
PB127541ZHE#03

Tot Ion: 76 Resp: 5040

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 32.763 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060530.D

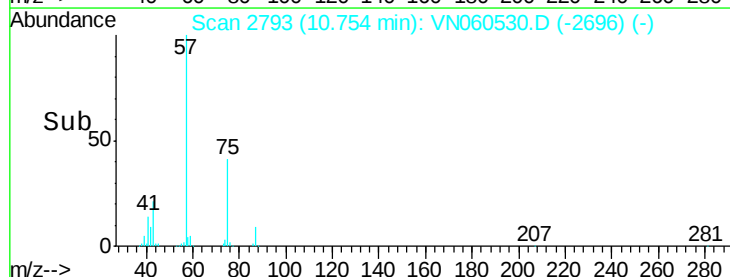
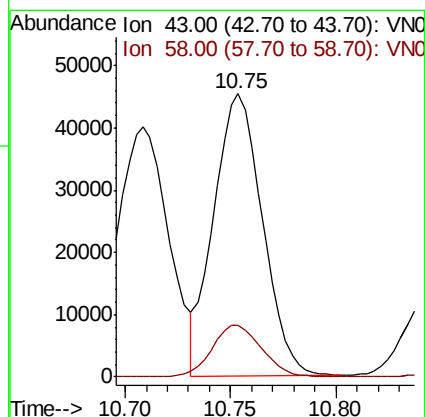
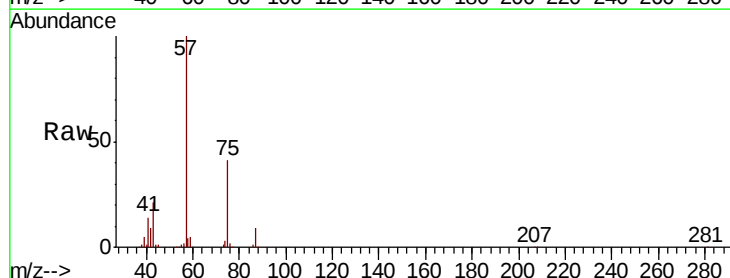
Acq: 16 Mar 2020 17:53

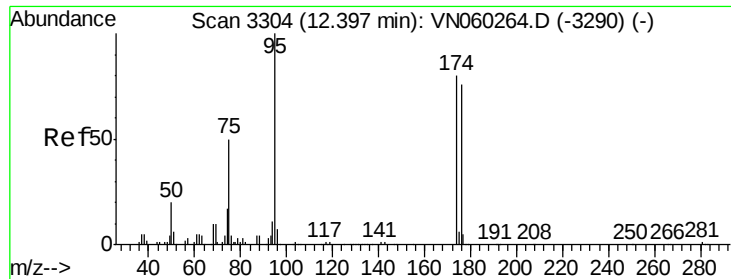
Tgt Ion: 43 Resp: 72707

Ion Ratio Lower Upper

43 100

58 18.7 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 52.215 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#03

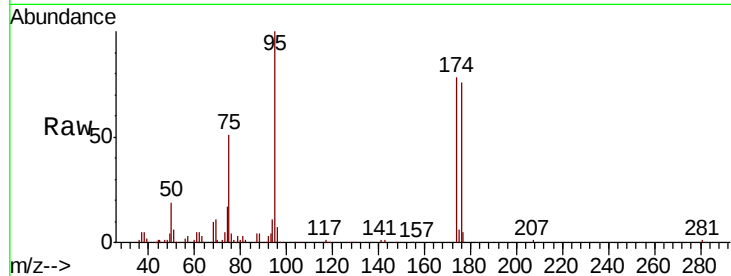
Tot Ion: 95 Resp: 156900

Ion Ratio Lower Upper

95 100

174 77.7 0.0 159.2

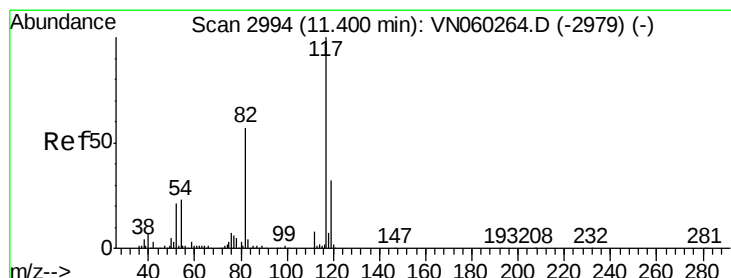
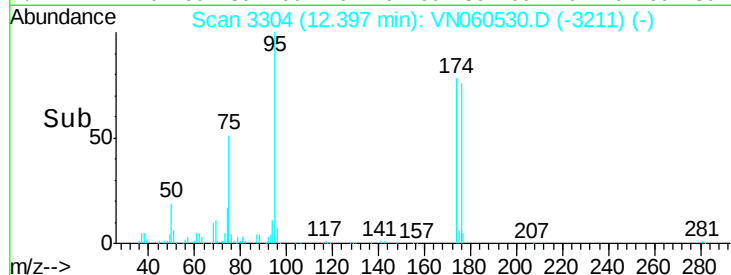
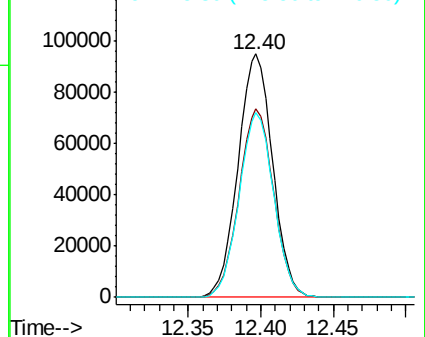
176 76.0 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060530.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060530.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060530.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

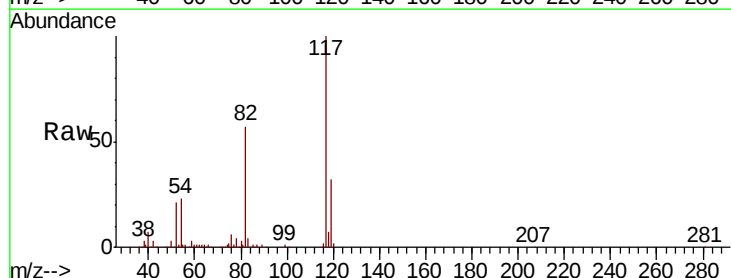
Tgt Ion: 117 Resp: 316837

Ion Ratio Lower Upper

117 100

82 57.3 45.8 68.6

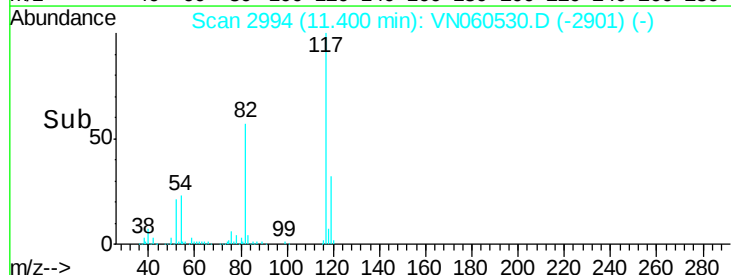
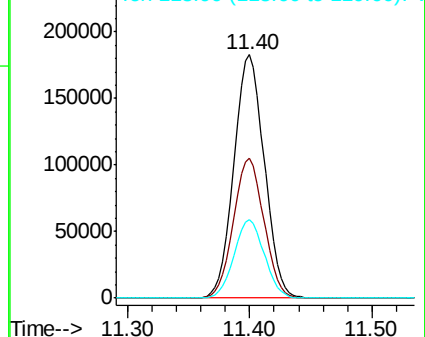
119 32.2 25.8 38.8

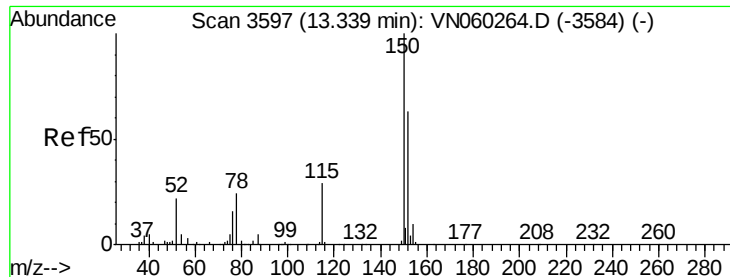


Abundance Ion 116.90 (116.60 to 117.60): VN060530.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060530.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060530.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#03

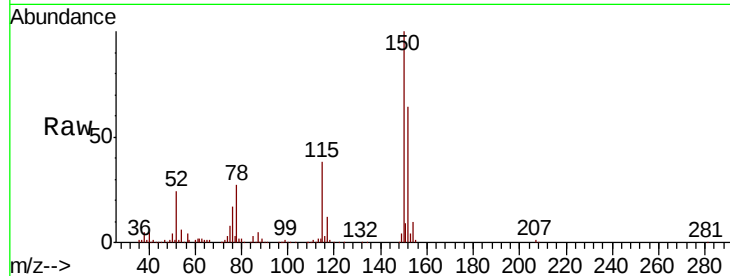
Tot Ion:152 Resp: 146282

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

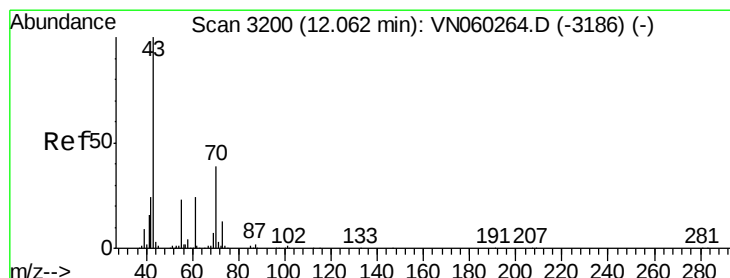
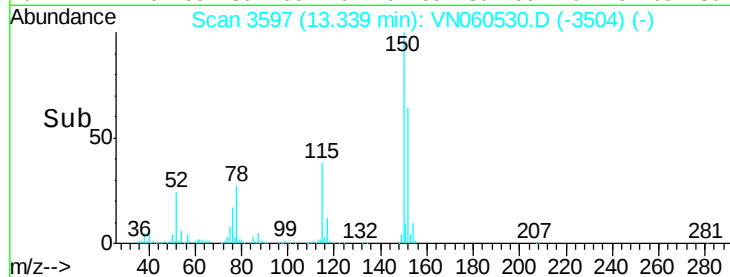
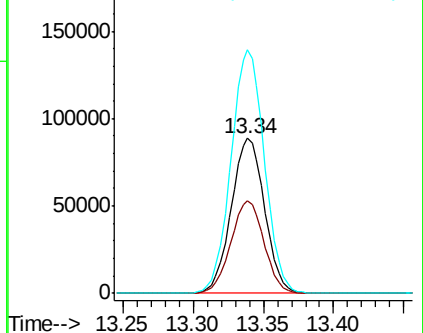
150 157.7 0.0 349.6



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: 0.676 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Tgt Ion: 43 Resp: 3201

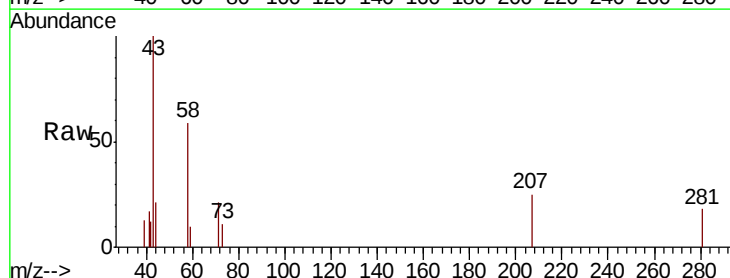
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

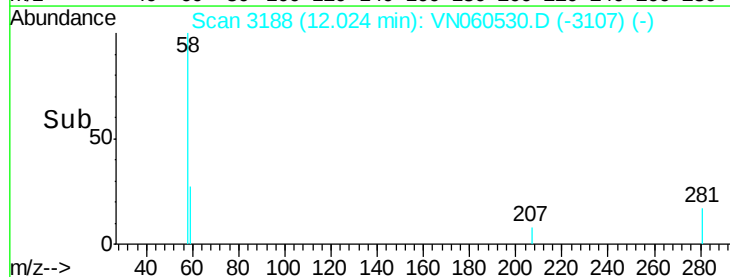
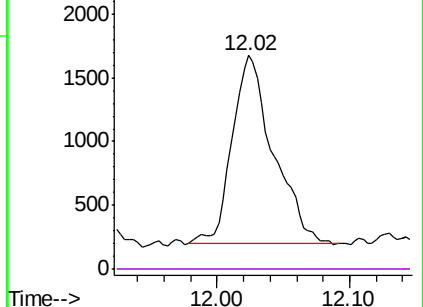


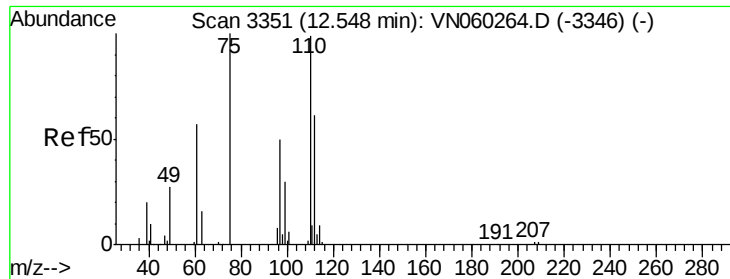
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.943 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

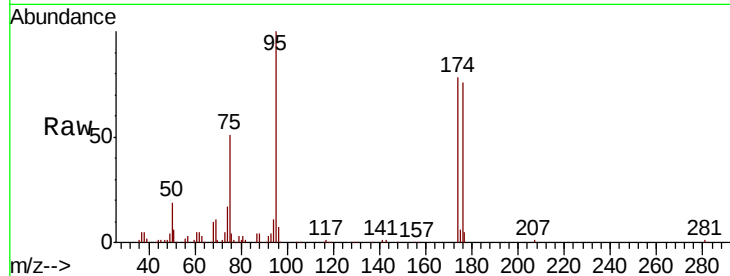
PB127541ZHE#03

Tot Ion: 75 Resp: 80054

Ion Ratio Lower Upper

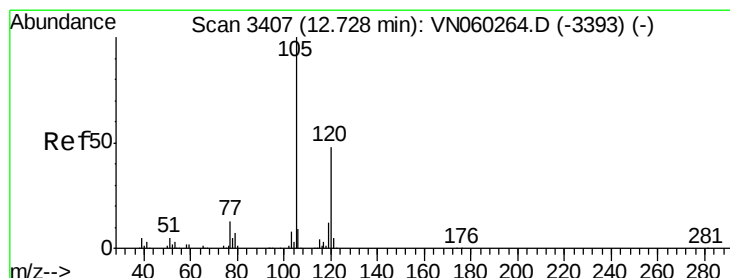
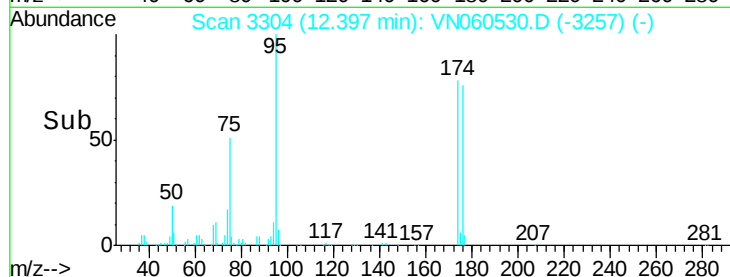
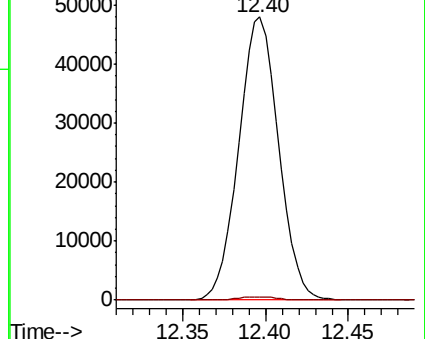
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060530.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060530.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.337 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060530.D

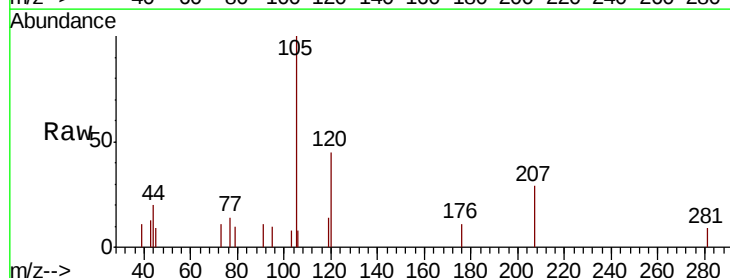
Acq: 16 Mar 2020 17:53

Tgt Ion: 105 Resp: 3078

Ion Ratio Lower Upper

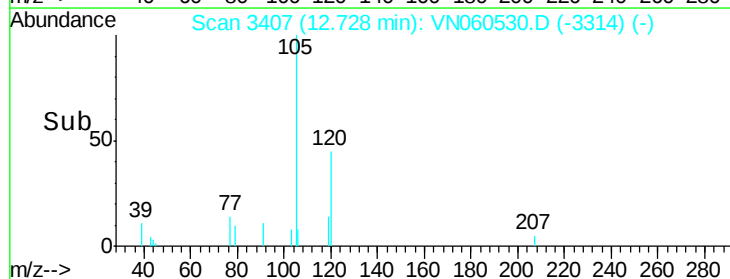
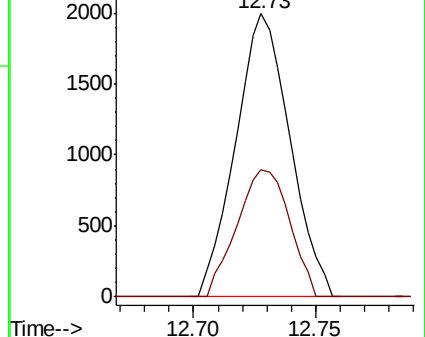
105 100

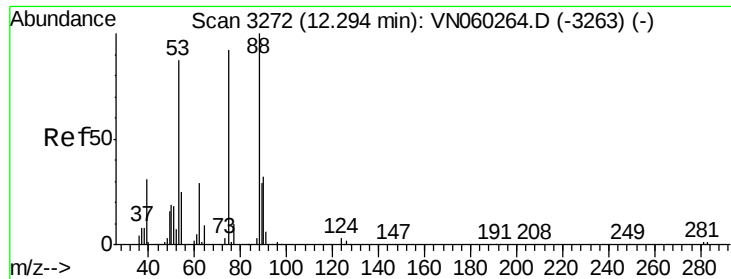
120 43.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060530.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060530.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.855 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#03

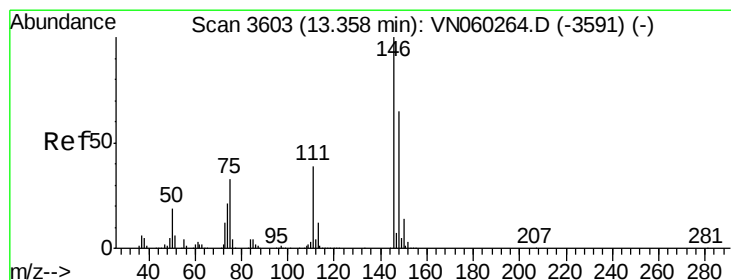
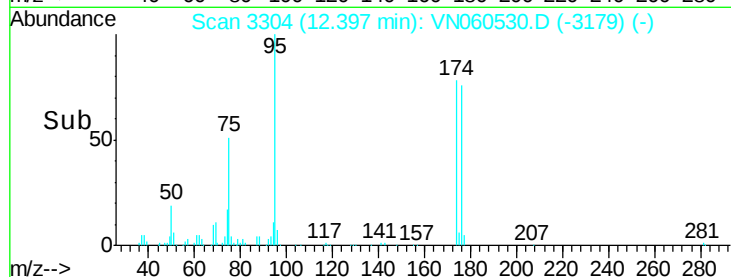
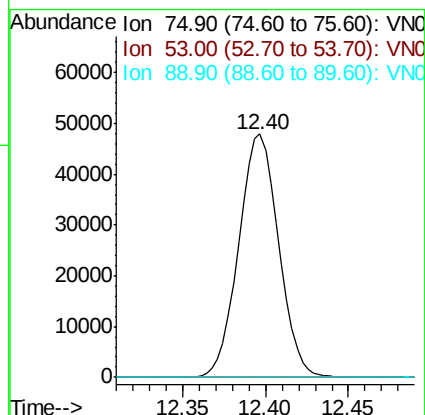
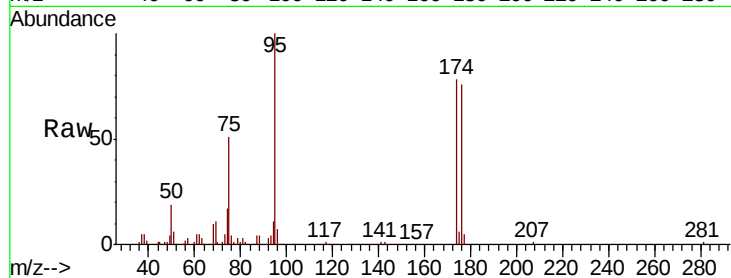
Tot Ion: 75 Resp: 80054

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.35 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

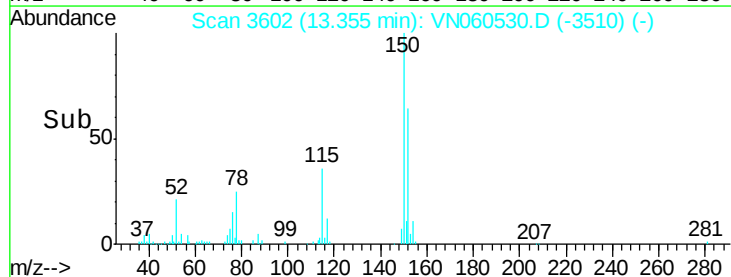
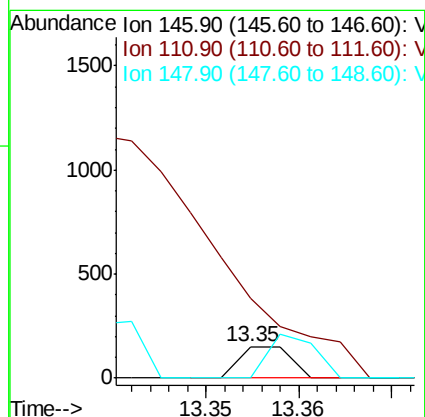
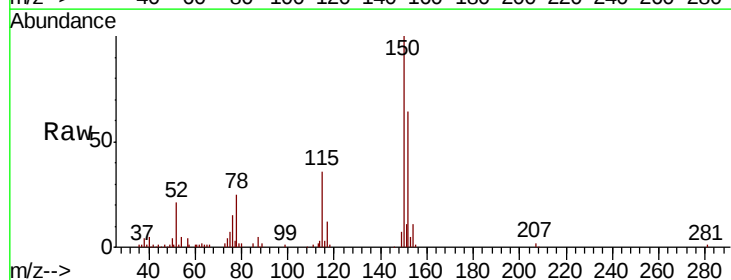
Tgt Ion: 146 Resp: 58

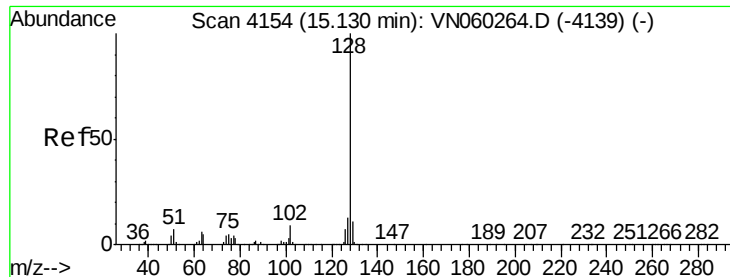
Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.4#

148 127.6 32.3 96.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060530.D

Acq: 16 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#03

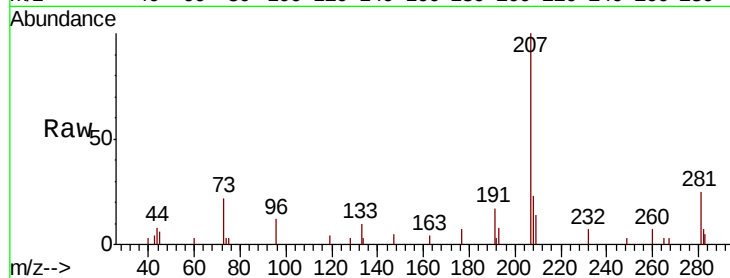
Tot Ion:128 Resp: 134

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

