

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030920\
 Data File : VN060397.D
 Acq On : 9 Mar 2020 12:55
 Operator : JC/MD
 Sample : PB127354ZHE#02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127354ZHE#02

Quant Time: Mar 09 16:25:33 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	205557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	329910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137478	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	131246	49.76	ug/l	0.00
Spiked Amount						
			Recovery	=	99.52%	
35) Dibromofluoromethane	7.56	113	96009	62.70	ug/l	0.00
Spiked Amount						
			Recovery	=	125.40%	
50) Toluene-d8	10.08	98	409195	52.80	ug/l	0.00
Spiked Amount						
			Recovery	=	105.60%	
62) 4-Bromofluorobenzene	12.40	95	148424	50.52	ug/l	0.00
Spiked Amount						
			Recovery	=	101.04%	

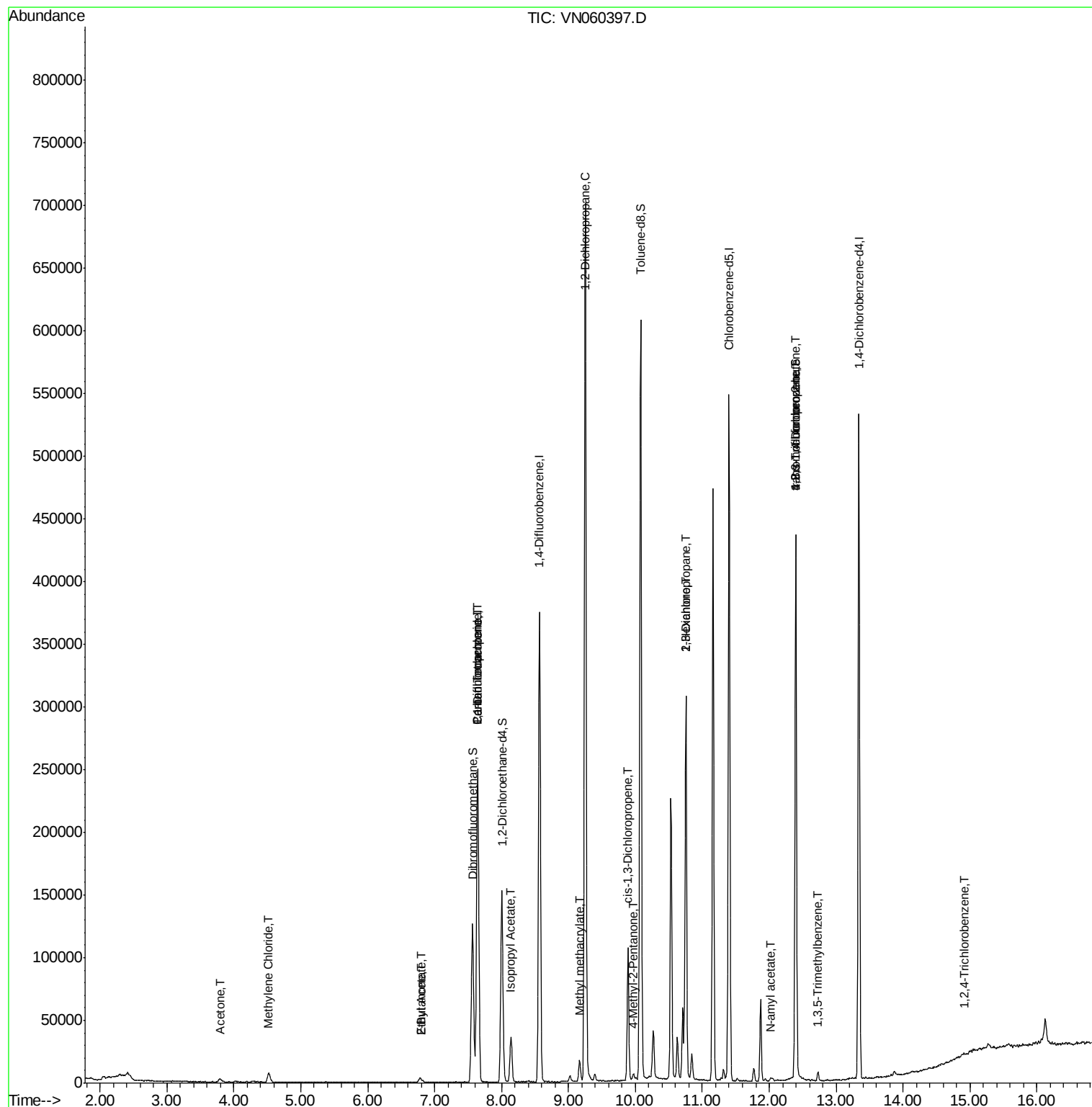
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.76	96	30	Below Cal	#	1
16) Acetone	3.79	43	5705	6.70	ug/l	93
17) Carbon Disulfide	4.02	76	94	Below Cal	#	75
20) Methylene Chloride	4.52	84	5289	2.26	ug/l	96
21) trans-1,2-Dichloroethene	5.02	96	60	Below Cal	#	1
25) 2-Butanone	6.81	43	1010	0.73	ug/l	85
31) Cyclohexane	7.64	56	4543	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15694	4.99	ug/l	49
37) Ethyl Acetate	6.81	43	1010	0.34	ug/l	68
38) Carbon Tetrachloride	7.64	117	19835	6.48	ug/l	16
43) Isopropyl Acetate	8.14	43	43687	8.38	ug/l	90
45) 1,2-Dichloropropane	9.25	63	890	0.37	ug/l	44
48) Methyl methacrylate	9.17	41	2486	1.05	ug/l	13
51) 4-Methyl-2-Pentanone	9.97	43	4028	1.36	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	18746	4.68	ug/l	62
57) 1,3-Dichloropropane	10.75	76	3061	0.81	ug/l	42
59) 2-Hexanone	10.75	43	46228	21.31	ug/l	51
74) N-amyl acetate	12.02	43	2884	0.65	ug/l	44
76) 1,2,3-Trichloropropane	12.40	75	76310	25.30	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	4356	0.51	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76310	69.84	ug/l	8
87) 1,3-Dichlorobenzene	13.27	146	146	Below Cal	#	12
88) 1,4-Dichlorobenzene	13.36	146	440	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.90	180	329	0.21	ug/l	76
95) Naphthalene	15.13	128	965	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	266	Below Cal	#	54

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

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Acq On : 9 Mar 2020 12:55
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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

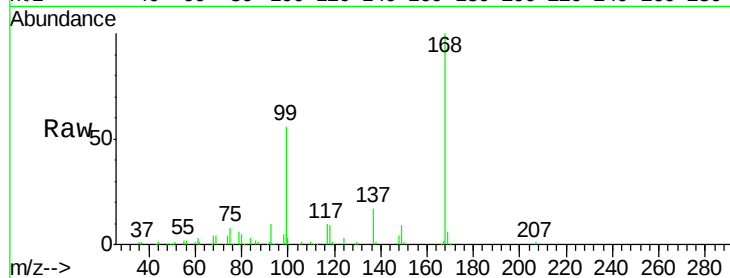
PB127354ZHE#02

Tgt Ion:168 Resp: 205557

Ion Ratio Lower Upper

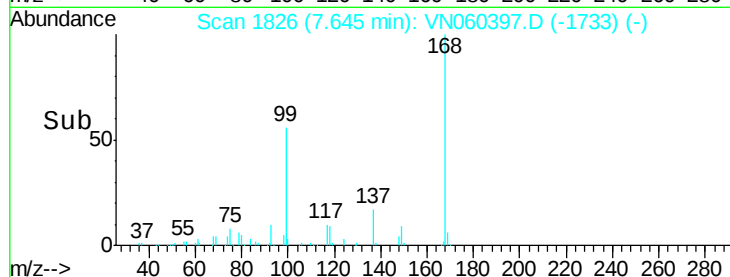
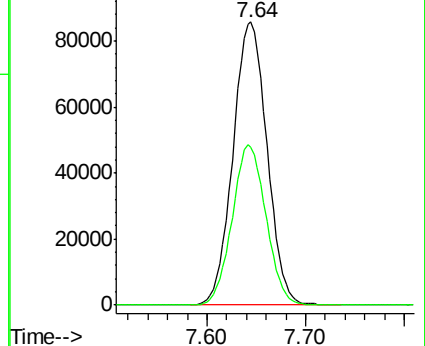
168 100

99 55.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060397.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060397.D (-1733) (-)



#16

Acetone

Concen: 6.70 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060397.D

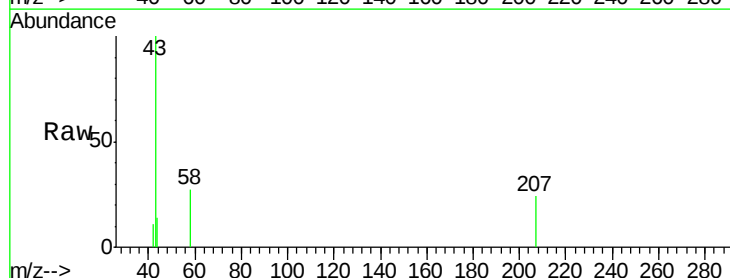
Acq: 9 Mar 2020 12:55

Tgt Ion: 43 Resp: 5705

Ion Ratio Lower Upper

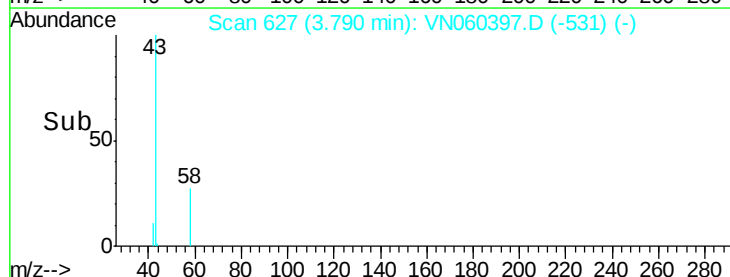
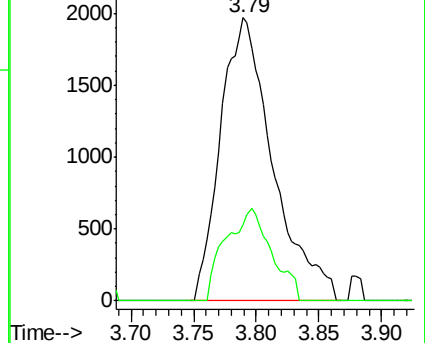
43 100

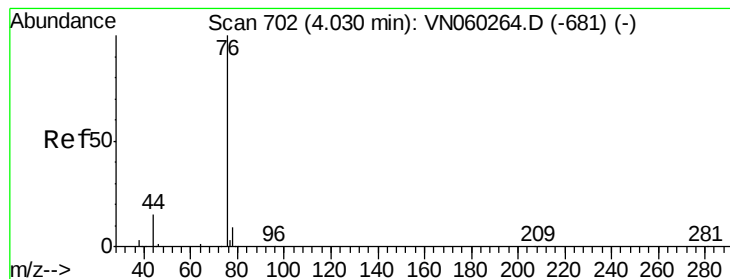
58 26.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060397.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060397.D (-531) (-)





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

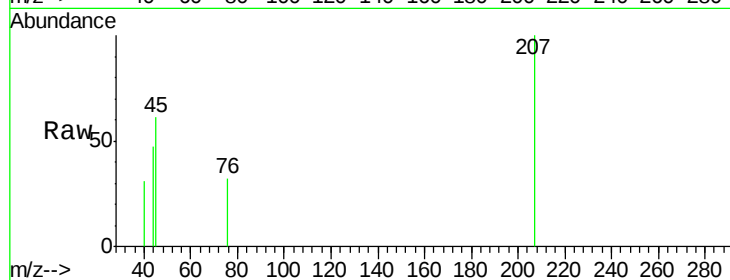
PB127354ZHE#02

Tgt Ion: 76 Resp: 94

Ion Ratio Lower Upper

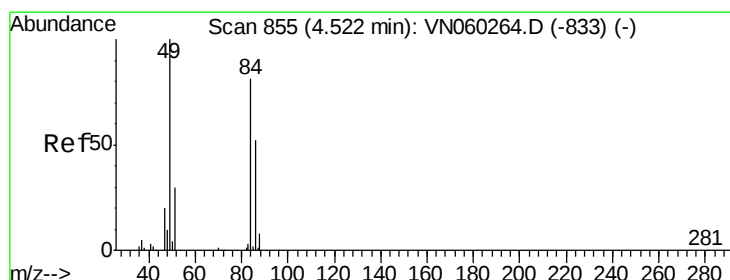
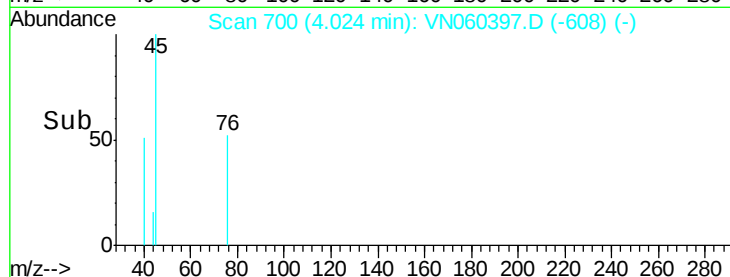
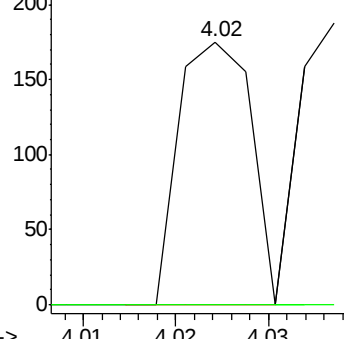
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: 2.26 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Tgt Ion: 84 Resp: 5289

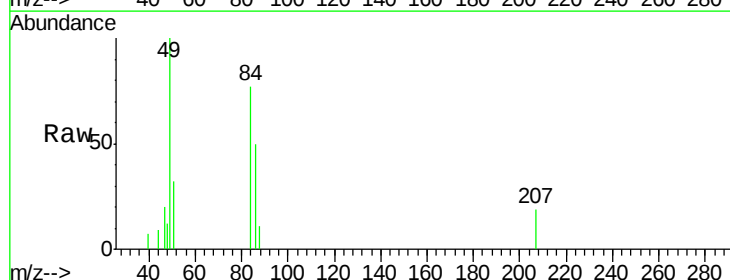
Ion Ratio Lower Upper

84 100

49 129.9 99.3 148.9

51 41.0 30.1 45.1

86 65.5 51.1 76.7

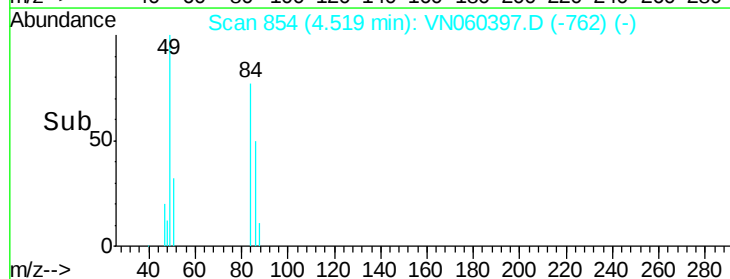
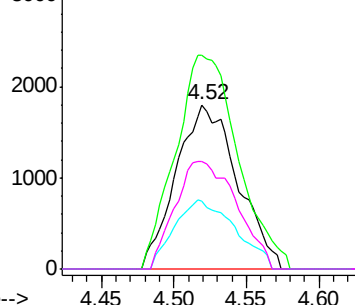


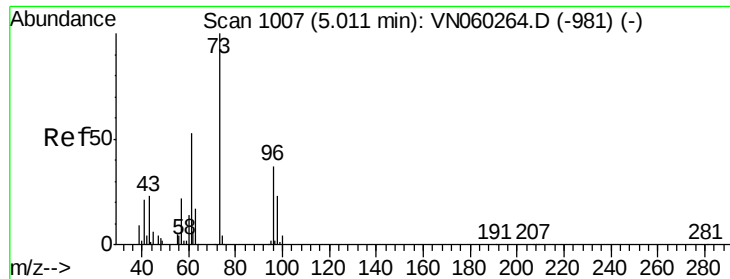
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.02 min Scan# 1010

Delta R.T. 0.01 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

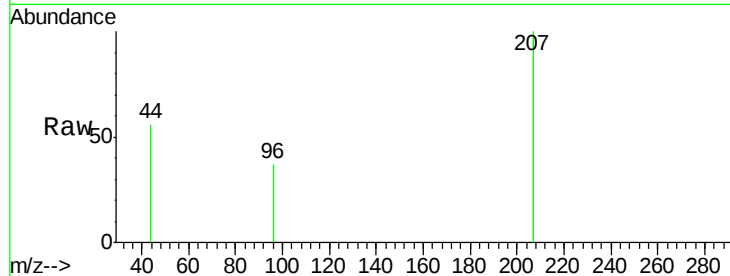
Tgt Ion: 96 Resp: 60

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

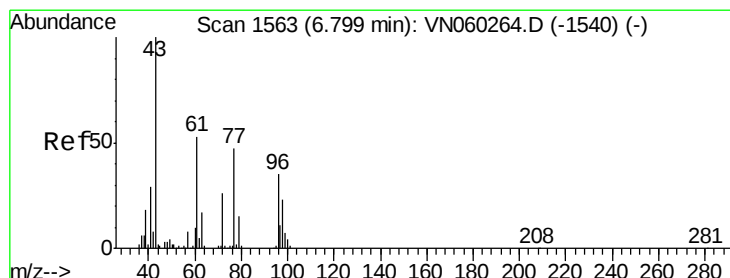
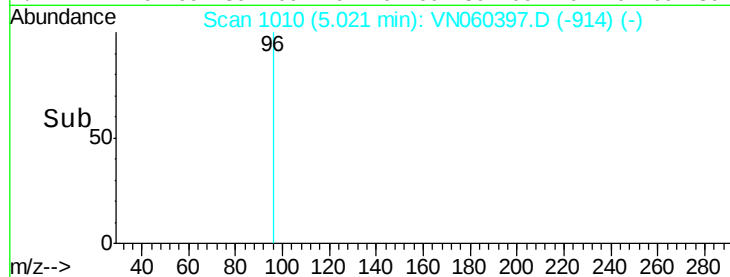
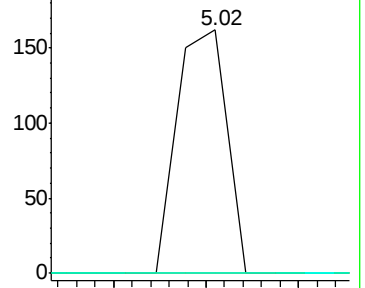
98 0.0 48.8 73.2#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#25

2-Butanone

Concen: 0.73 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060397.D

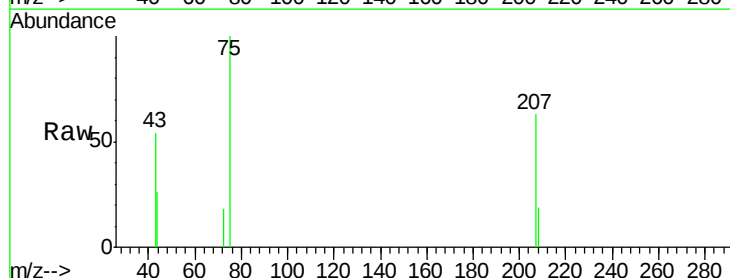
Acq: 9 Mar 2020 12:55

Tgt Ion: 43 Resp: 1010

Ion Ratio Lower Upper

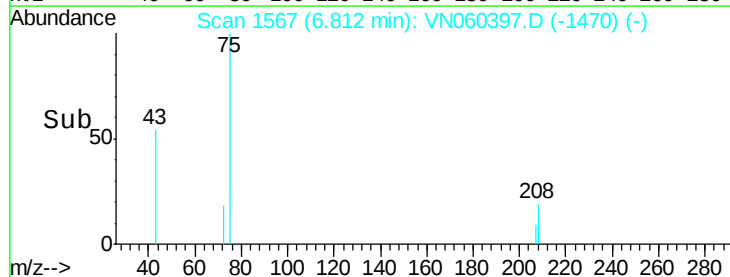
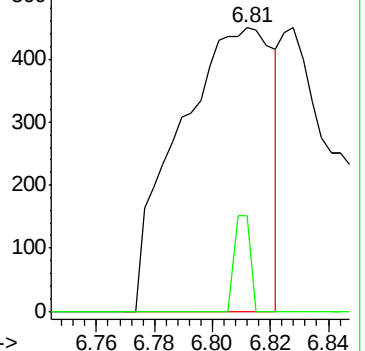
43 100

72 33.6 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

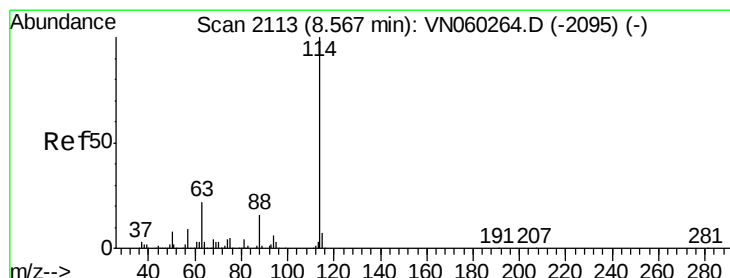
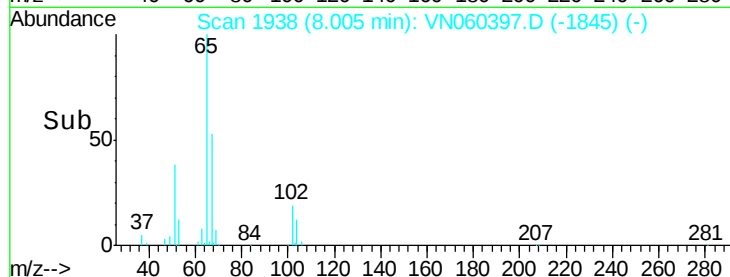
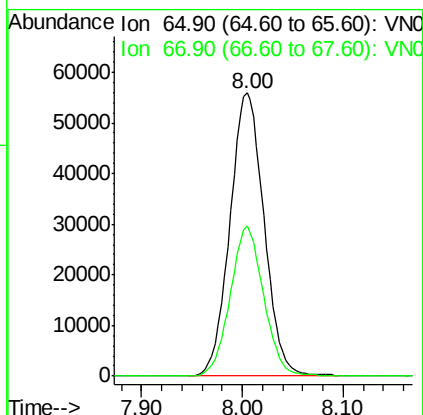
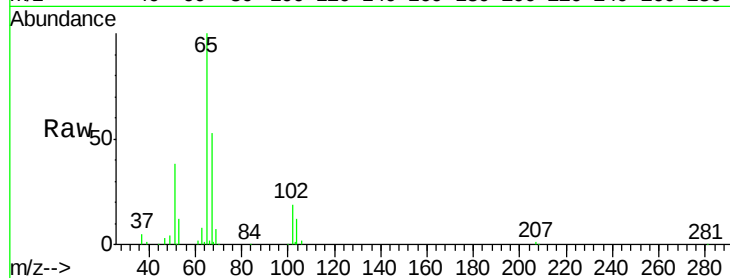




#33
 1,2-Dichloroethane-d4
 Concen: 49.76 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060397.D
 Acq: 9 Mar 2020 12:55

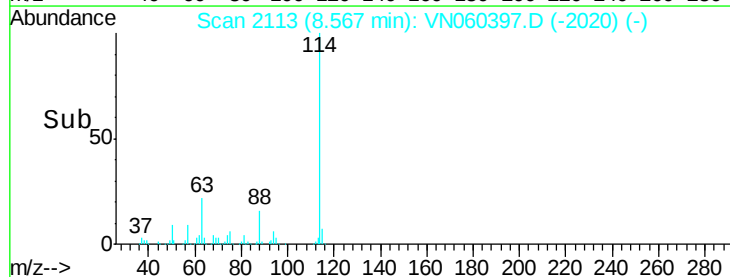
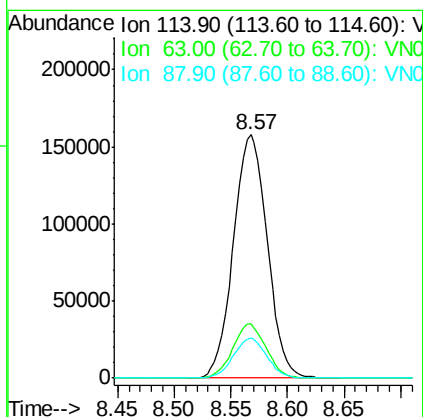
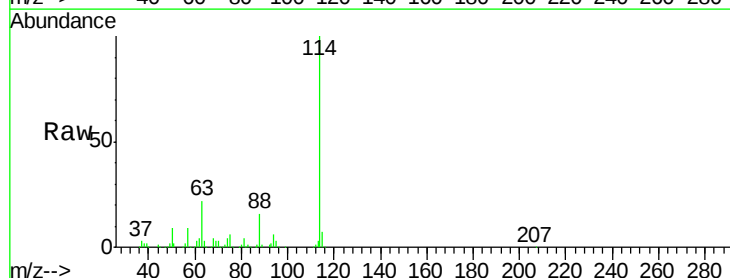
Instrument :
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 PB127354ZHE#02

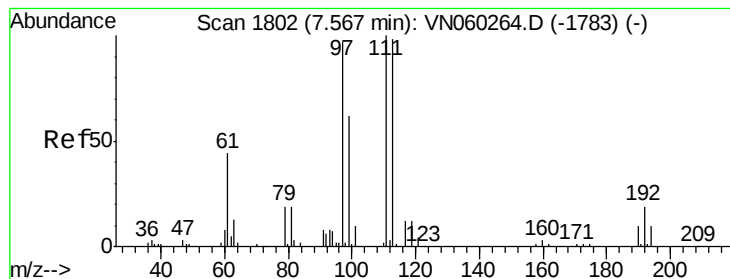
Tgt Ion: 65 Resp: 131246
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060397.D
 Acq: 9 Mar 2020 12:55

Tgt Ion: 114 Resp: 329910
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.2
 88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 62.70 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

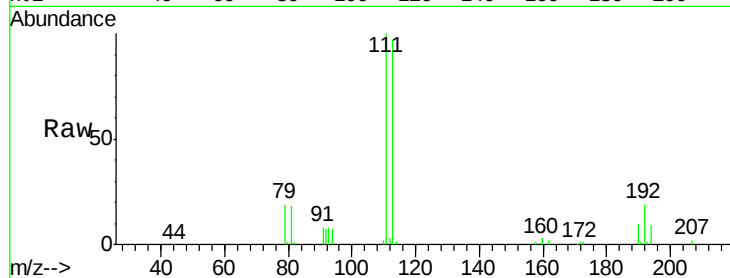
Tgt Ion:113 Resp: 96009

Ion Ratio Lower Upper

113 100

111 103.2 82.4 123.6

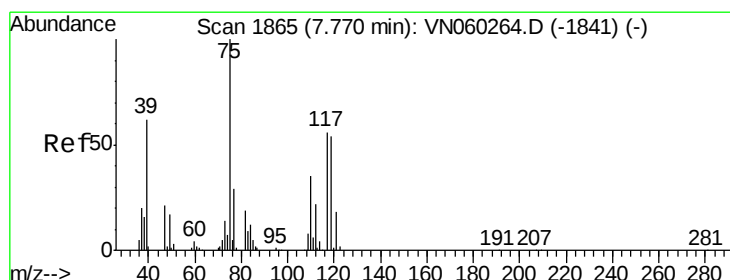
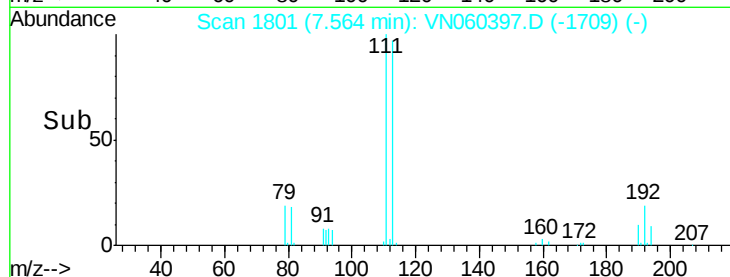
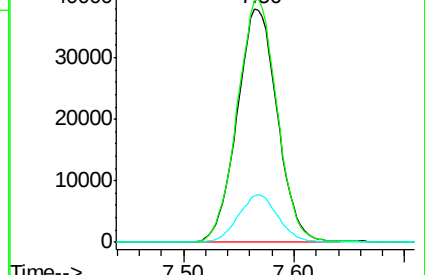
192 20.1 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.99 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

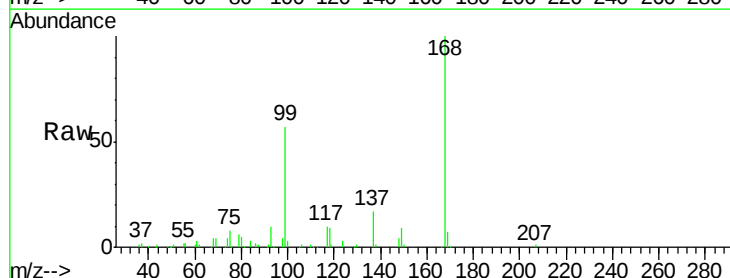
Tgt Ion: 75 Resp: 15694

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

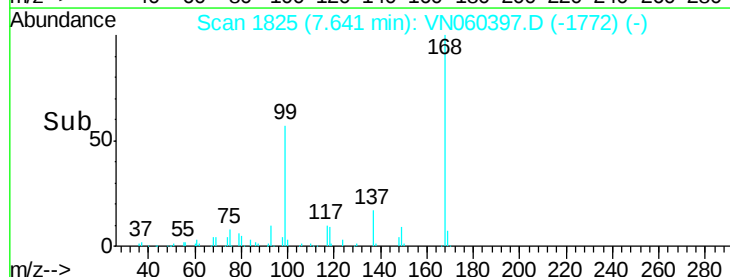
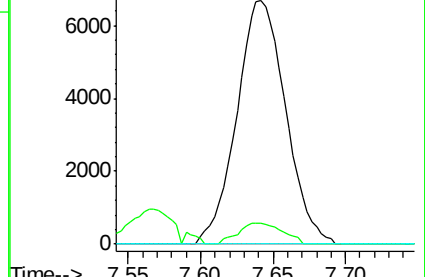
77 0.0 24.2 36.2#

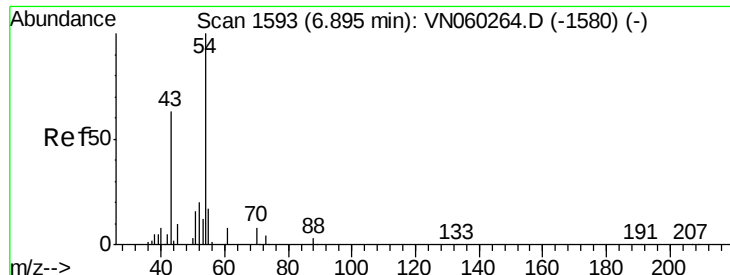


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

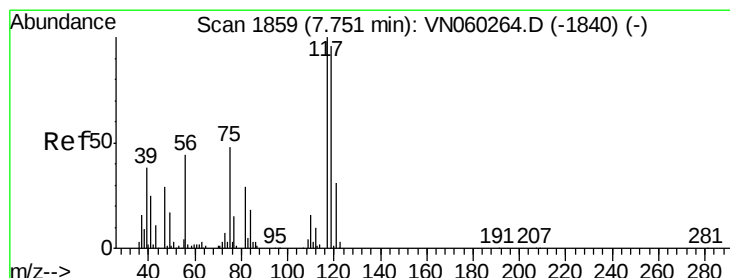
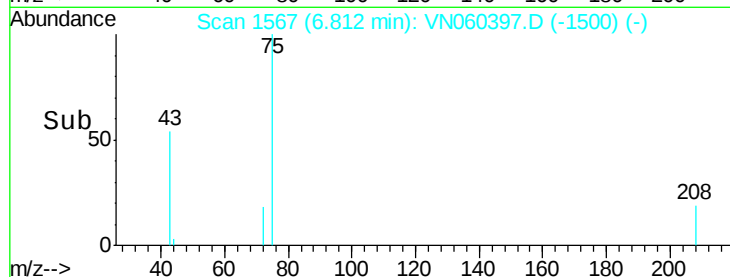
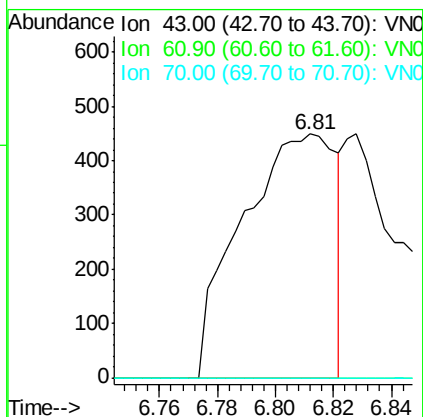
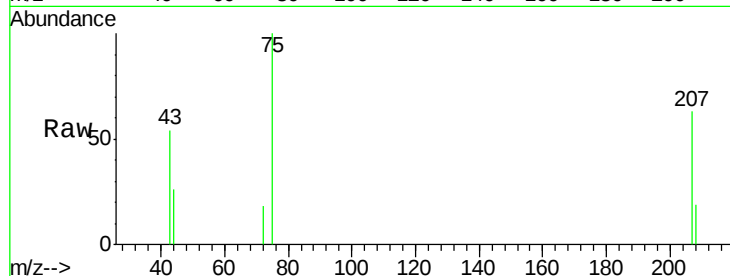




#37
Ethyl Acetate
 Concen: 0.34 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.08 min
 Lab File: VN060397.D
 Acq: 9 Mar 2020 12:55

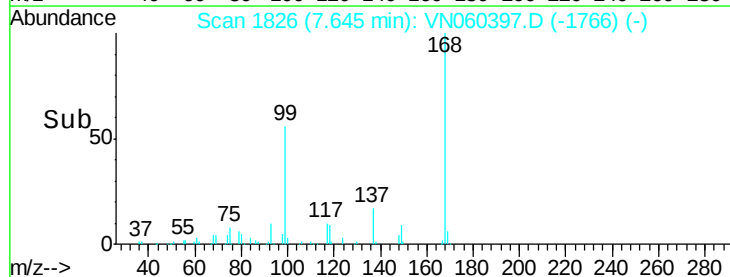
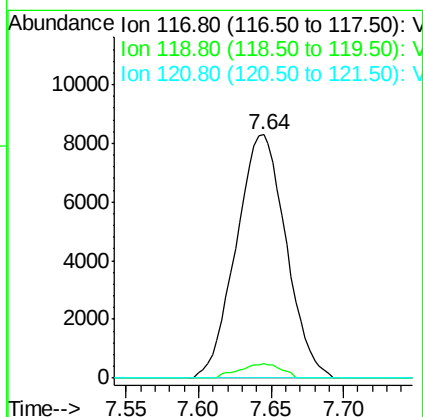
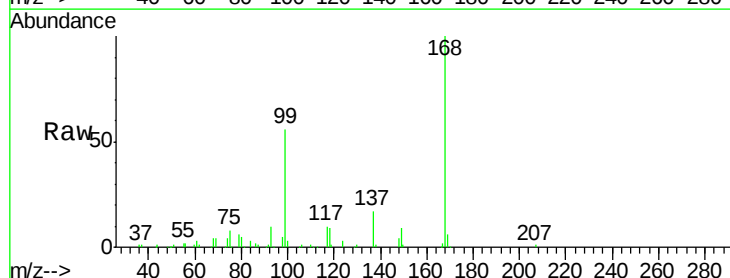
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127354ZHE#02

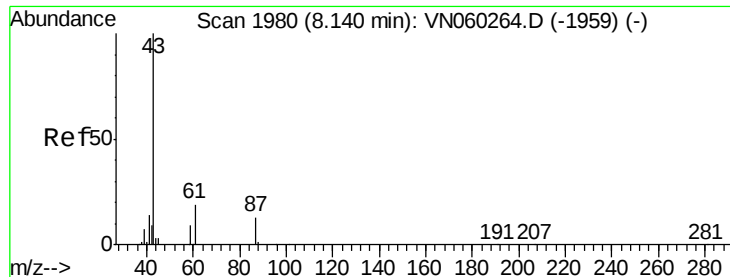
Tgt Ion: 43 Resp: 1010
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.1 16.7#
 70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
 Concen: 6.48 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060397.D
 Acq: 9 Mar 2020 12:55

Tgt Ion: 117 Resp: 19835
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.7 115.1#
 121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 8.38 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

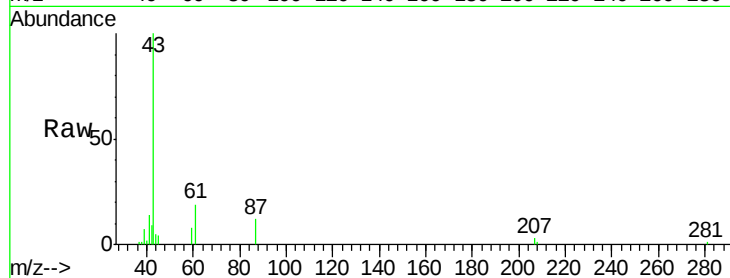
Tgt Ion: 43 Resp: 43687

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

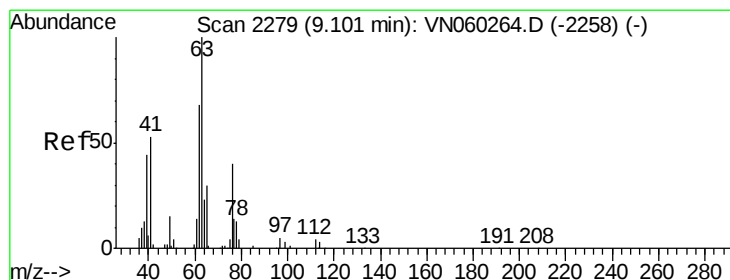
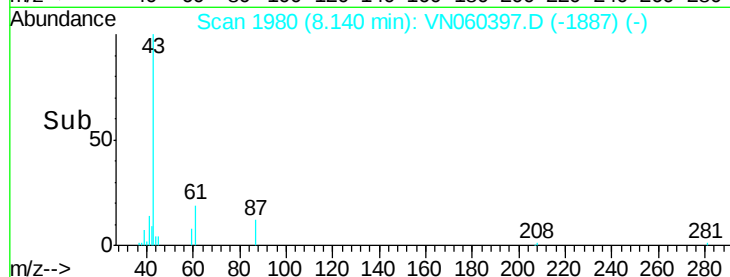
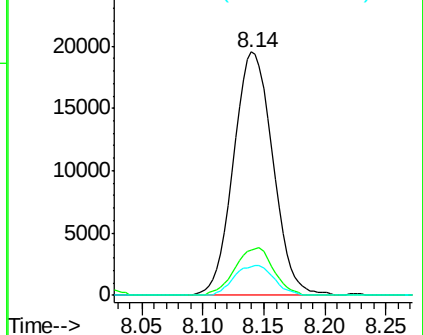
87 12.4 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.37 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060397.D

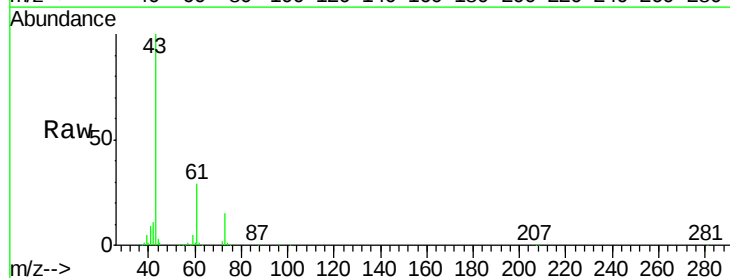
Acq: 9 Mar 2020 12:55

Tgt Ion: 63 Resp: 890

Ion Ratio Lower Upper

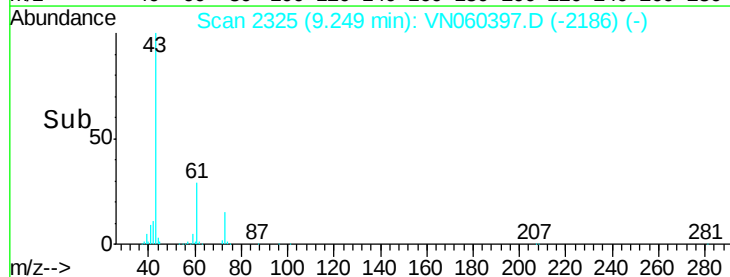
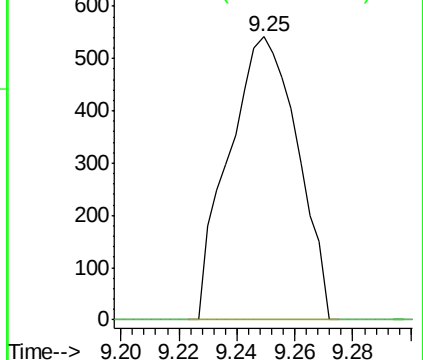
63 100

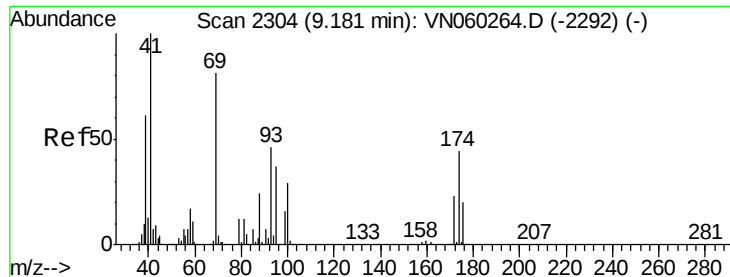
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

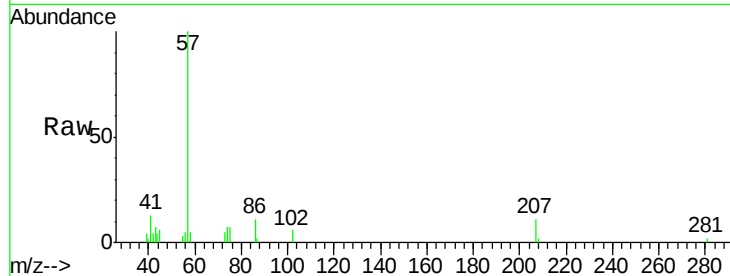




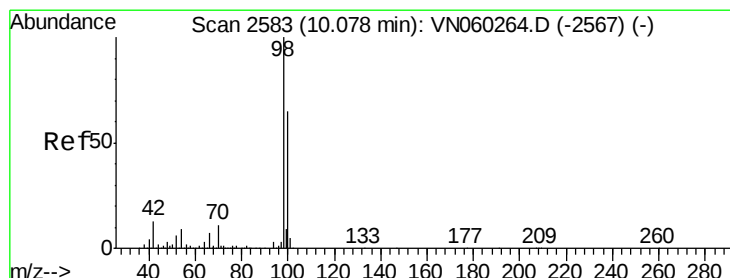
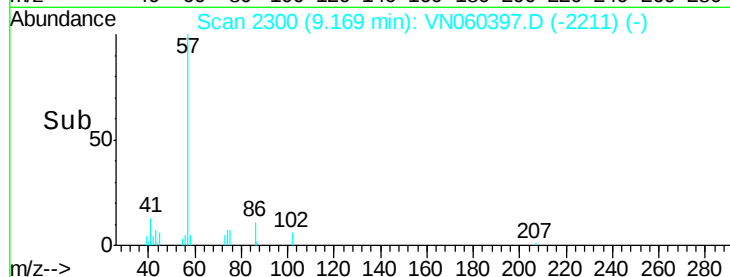
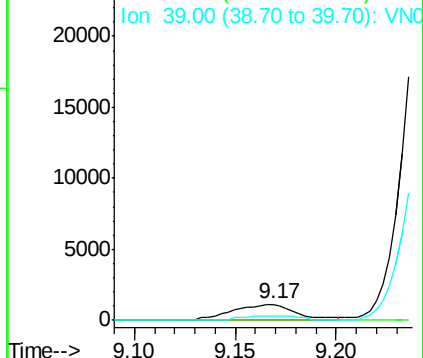
#48
Methyl methacrylate
Concen: 1.05 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.01 min
Lab File: VN060397.D
Acq: 9 Mar 2020 12:55

Instrument :
MSVOA_N
ClientSampleId :
PB127354ZHE#02

Tgt Ion: 41 Resp: 2486
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

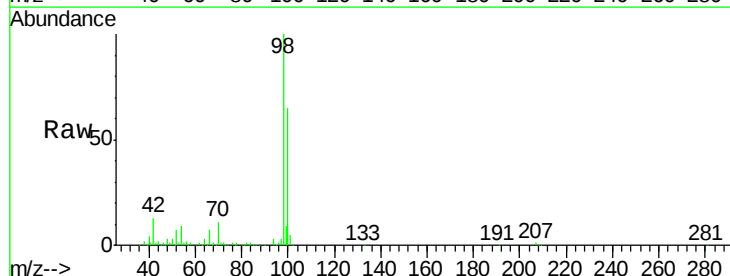


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

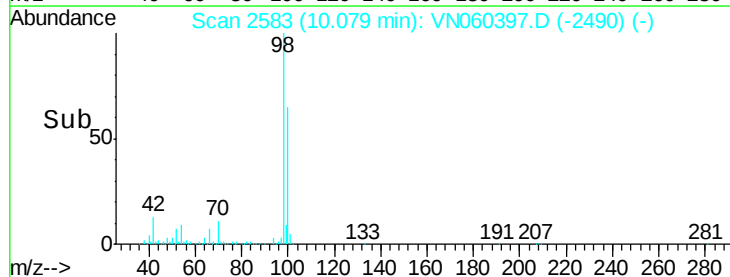
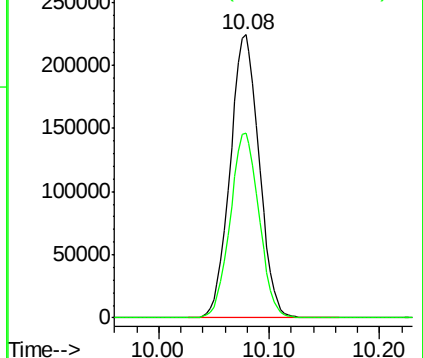


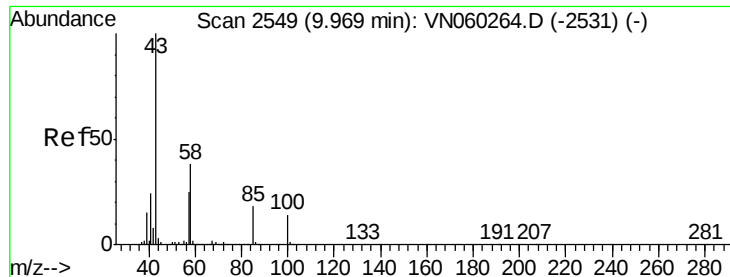
#50
Toluene-d8
Concen: 52.80 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060397.D
Acq: 9 Mar 2020 12:55

Tgt Ion: 98 Resp: 409195
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



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

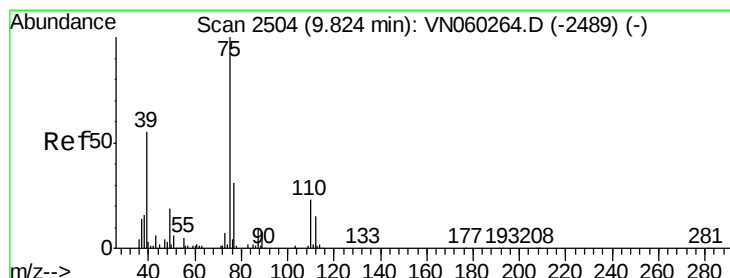
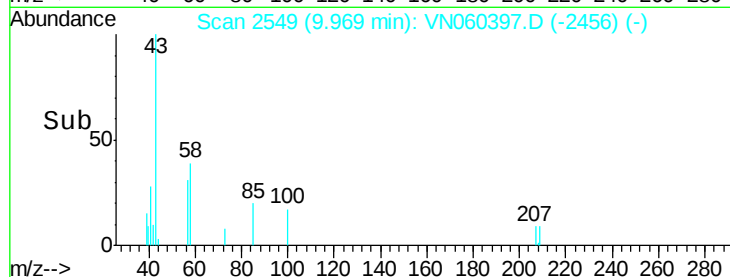
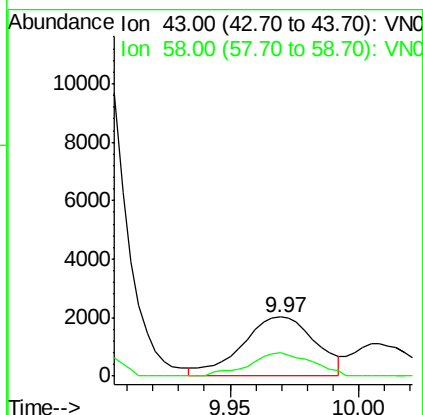
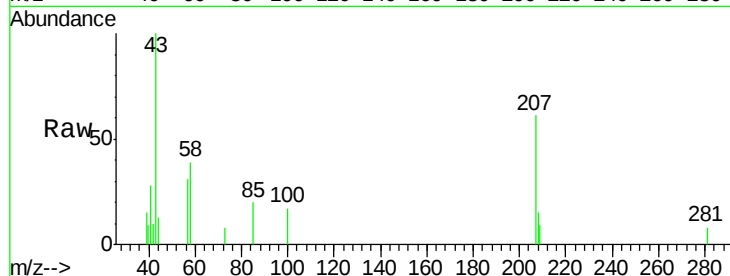




#51
 4-Methyl-2-Pentanone
 Concen: 1.36 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060397.D
 Acq: 9 Mar 2020 12:55

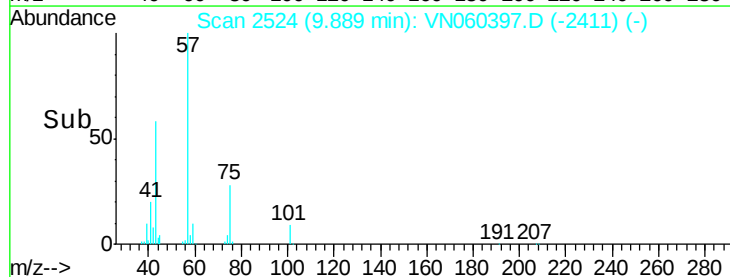
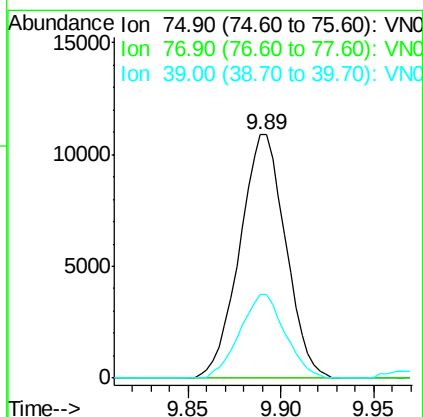
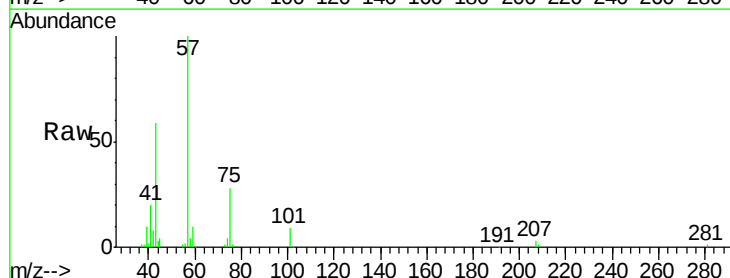
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127354ZHE#02

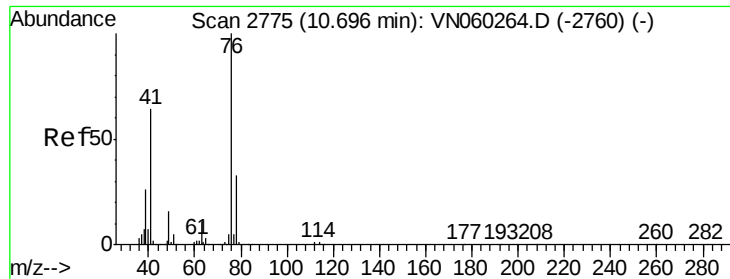
Tgt Ion: 43 Resp: 4028
 Ion Ratio Lower Upper
 43 100
 58 33.6 30.9 46.3



#54
 cis-1,3-Dichloropropene
 Concen: 4.68 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060397.D
 Acq: 9 Mar 2020 12:55

Tgt Ion: 75 Resp: 18746
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.5 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 0.81 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

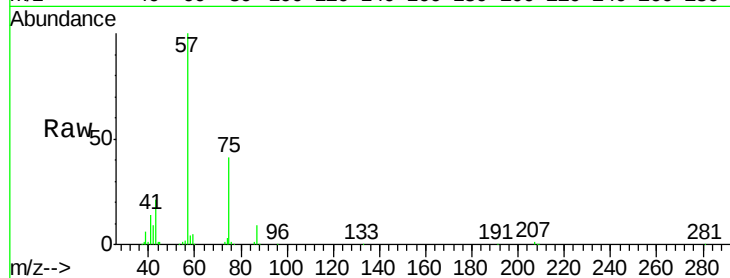
PB127354ZHE#02

Tgt Ion: 76 Resp: 3061

Ion Ratio Lower Upper

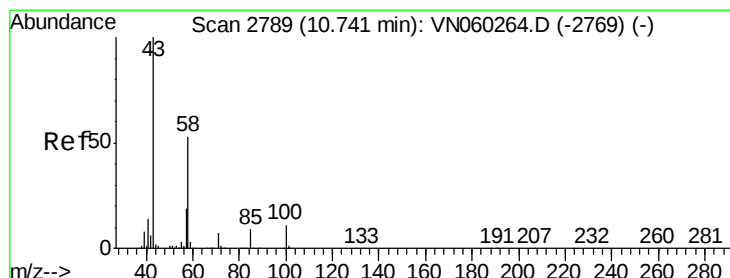
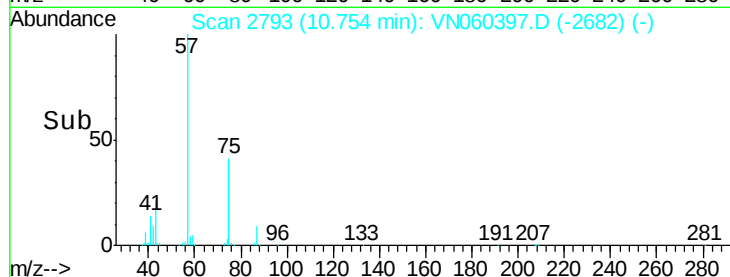
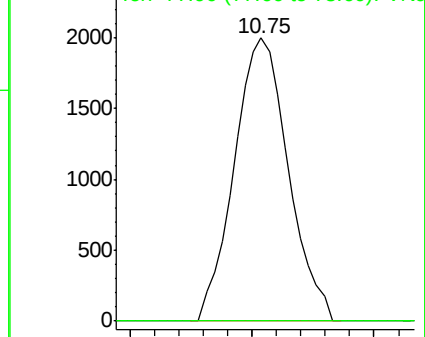
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 21.31 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060397.D

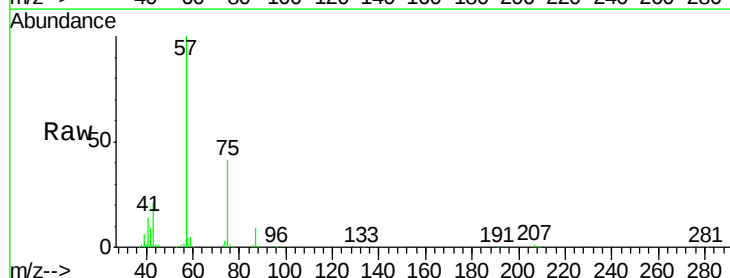
Acq: 9 Mar 2020 12:55

Tgt Ion: 43 Resp: 46228

Ion Ratio Lower Upper

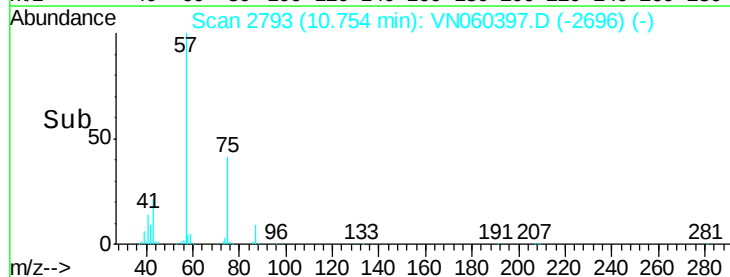
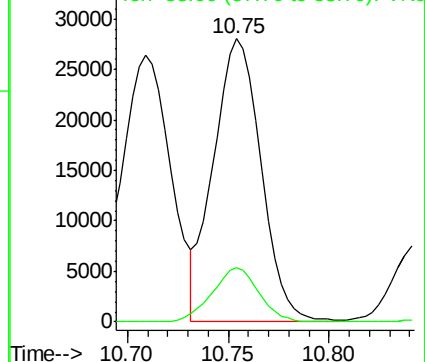
43 100

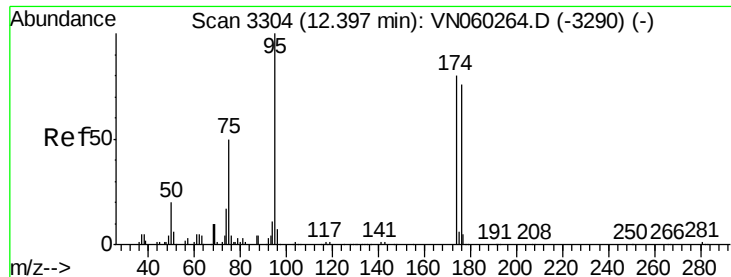
58 18.5 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.52 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

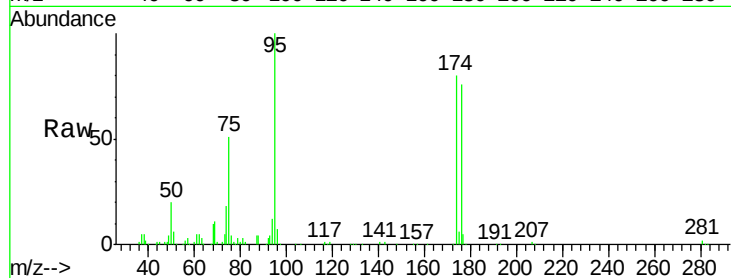
Tgt Ion: 95 Resp: 148424

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.2

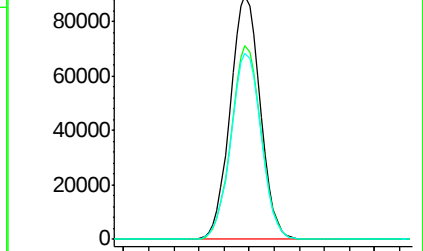
176 77.4 0.0 153.8



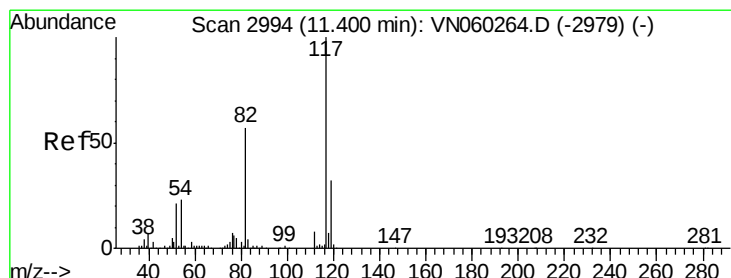
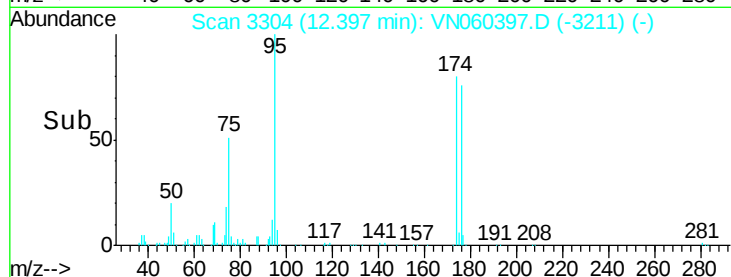
Abundance Ion 94.90 (94.60 to 95.60): VN060397.D (-2901) (-)

Ion 173.80 (173.50 to 174.50): VN060397.D (-2901) (-)

Ion 175.80 (175.50 to 176.50): VN060397.D (-2901) (-)



Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

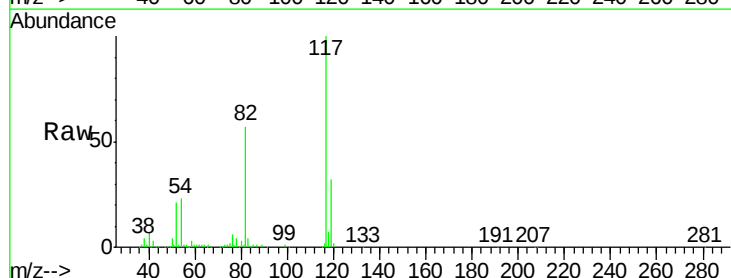
Tgt Ion: 117 Resp: 307372

Ion Ratio Lower Upper

117 100

82 57.2 45.8 68.6

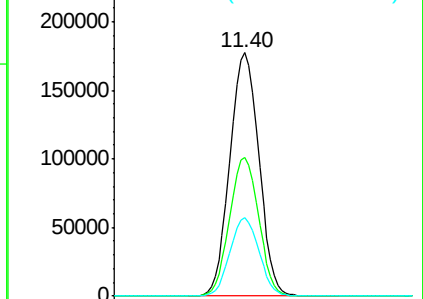
119 32.1 25.8 38.8



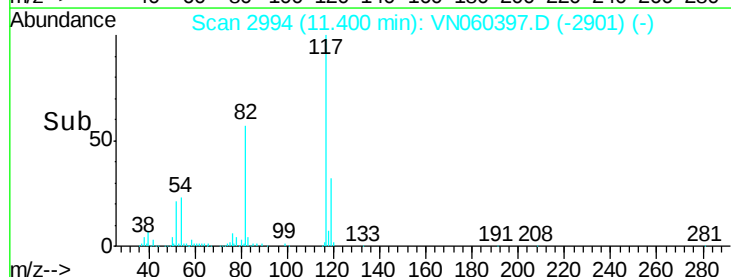
Abundance Ion 116.90 (116.60 to 117.60): VN060397.D (-2901) (-)

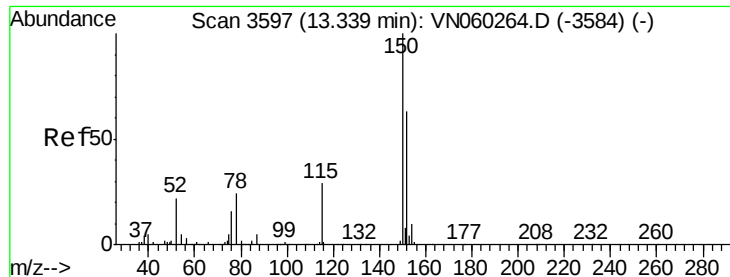
Ion 82.00 (81.70 to 82.70): VN060397.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060397.D (-2901) (-)



Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

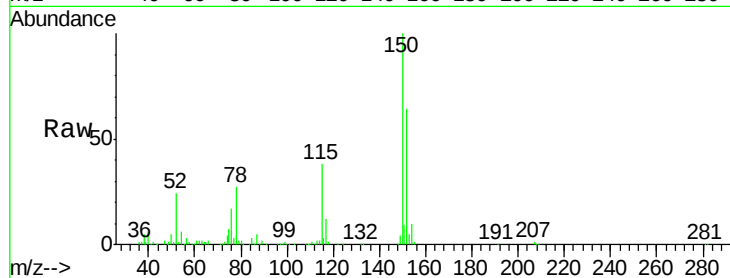
Tgt Ion:152 Resp: 137478

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

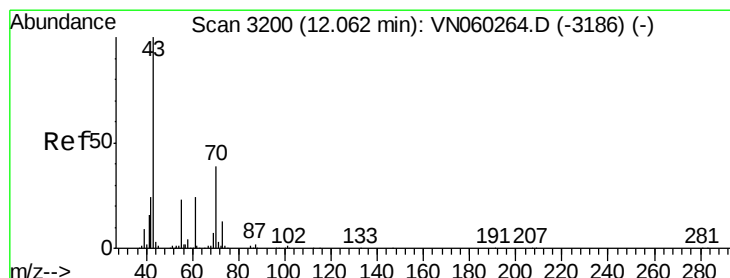
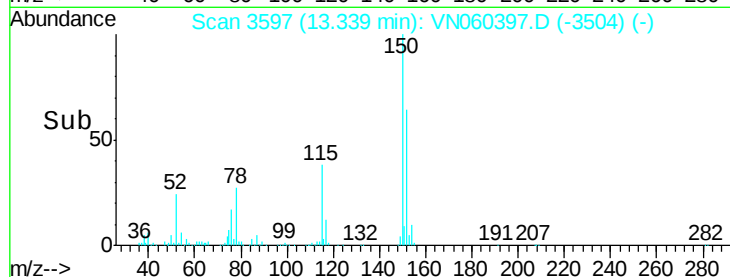
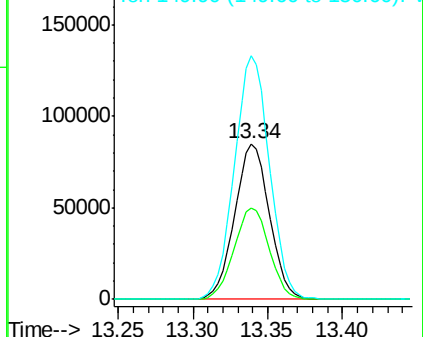
150 157.9 0.0 349.6



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: 0.65 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Tgt Ion: 43 Resp: 2884

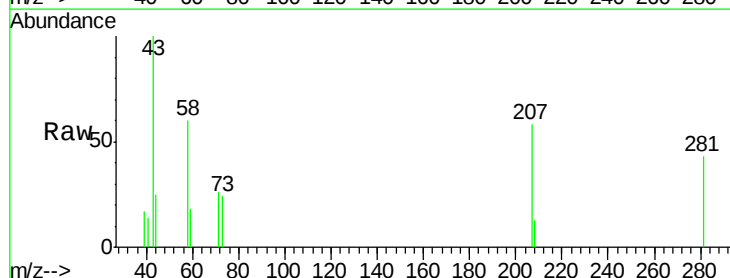
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

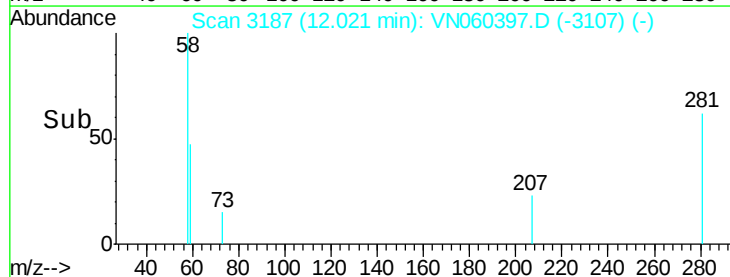
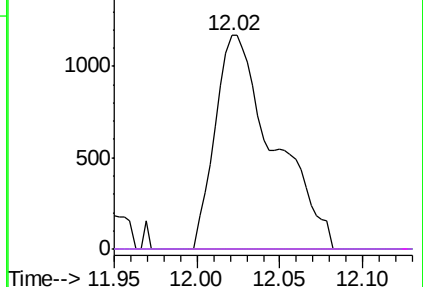


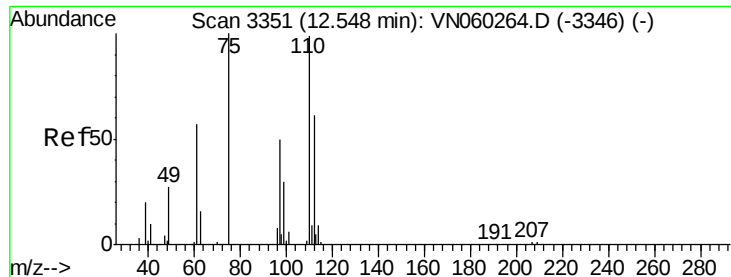
Abundance Ion 43.00 (42.70 to 43.70): V

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: 25.30 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

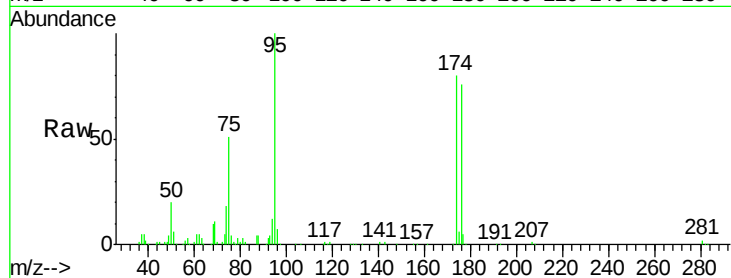
PB127354ZHE#02

Tgt Ion: 75 Resp: 76310

Ion Ratio Lower Upper

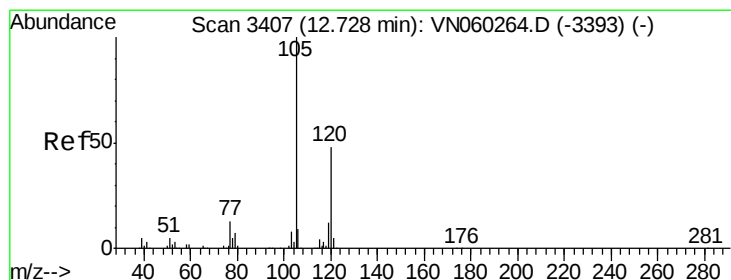
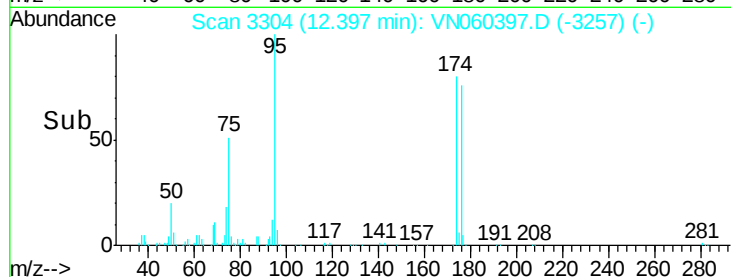
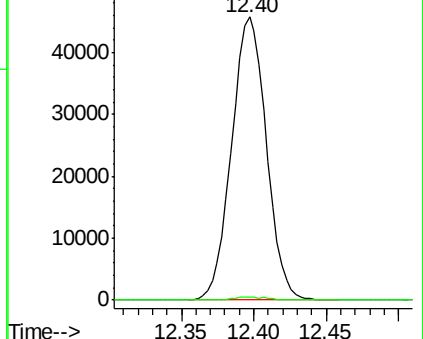
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.51 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060397.D

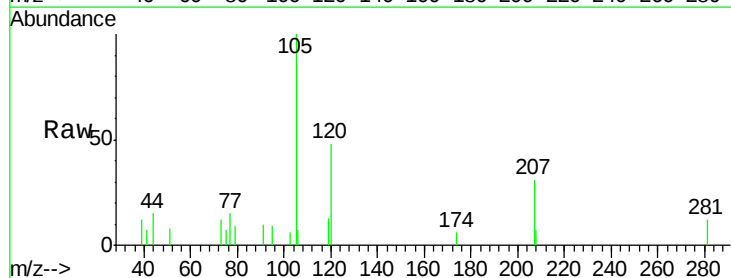
Acq: 9 Mar 2020 12:55

Tgt Ion: 105 Resp: 4356

Ion Ratio Lower Upper

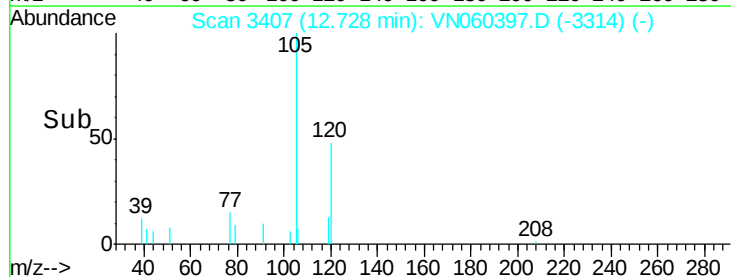
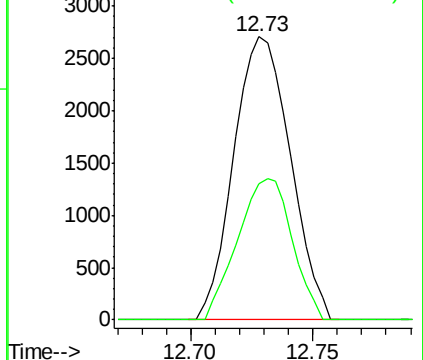
105 100

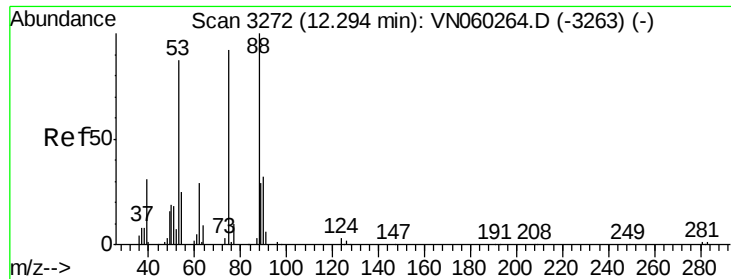
120 48.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.84 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

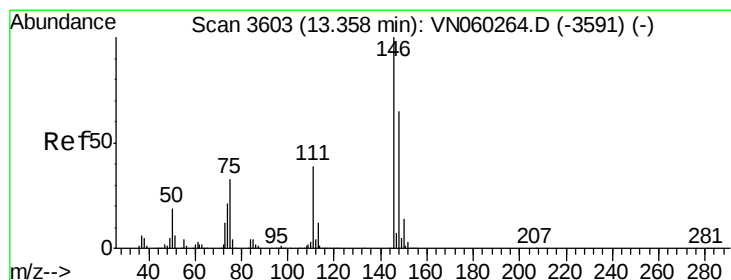
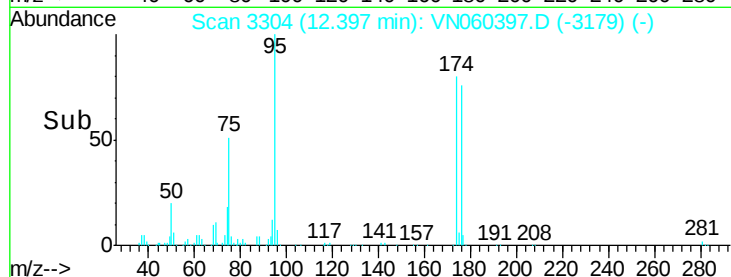
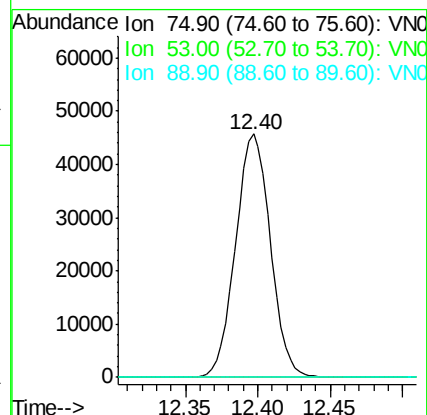
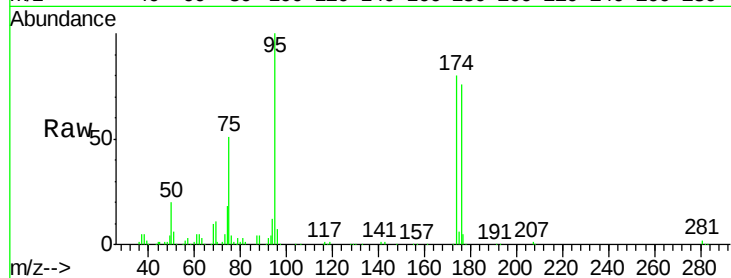
Tgt Ion: 75 Resp: 76310

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: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

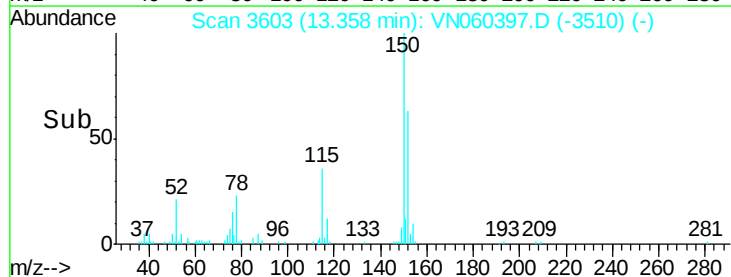
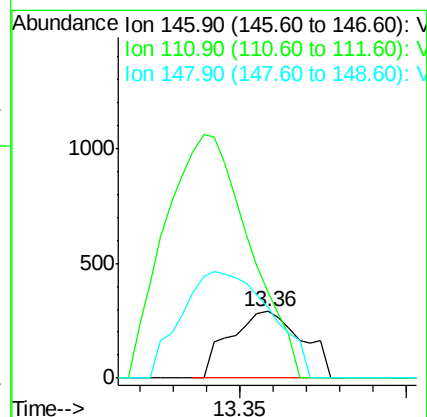
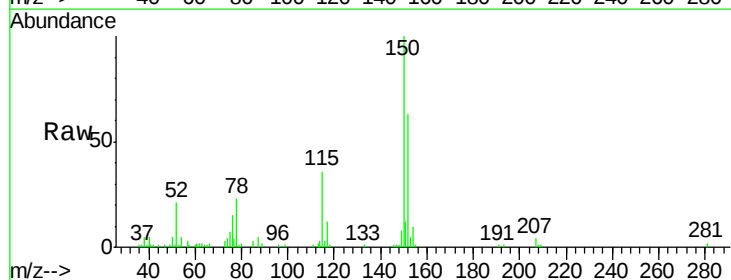
Tgt Ion: 146 Resp: 440

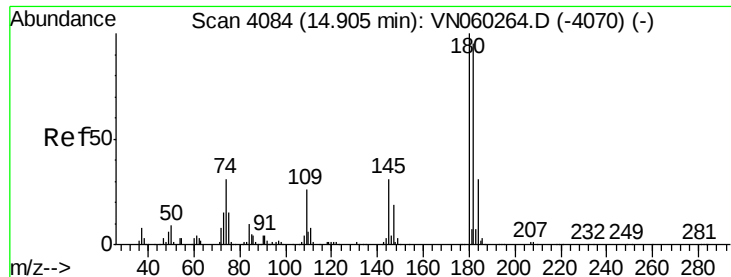
Ion Ratio Lower Upper

146 100

111 425.0 19.8 59.4#

148 196.6 32.3 96.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.21 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VN060397.D

Acq: 9 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#02

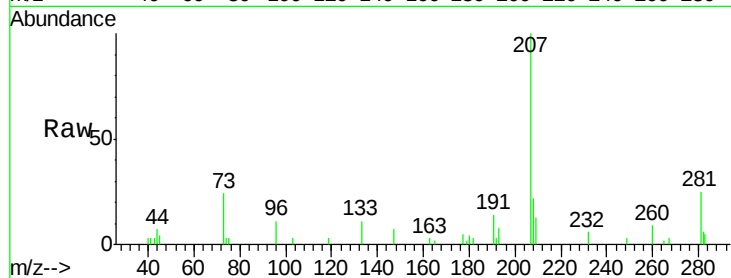
Tgt Ion:180 Resp: 329

Ion Ratio Lower Upper

180 100

182 81.8 47.8 143.3

145 0.0 15.4 46.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

