

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022420\
 Data File : VN060208.D
 Acq On : 24 Feb 2020 14:32
 Operator : JC/MD
 Sample : PB127001ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#01

Quant Time: Feb 24 15:50:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	189212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	298044	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	281959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	128985	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	110869	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
35) Dibromofluoromethane	7.57	113	88511	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	10.08	98	361619	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.40	95	130195	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	

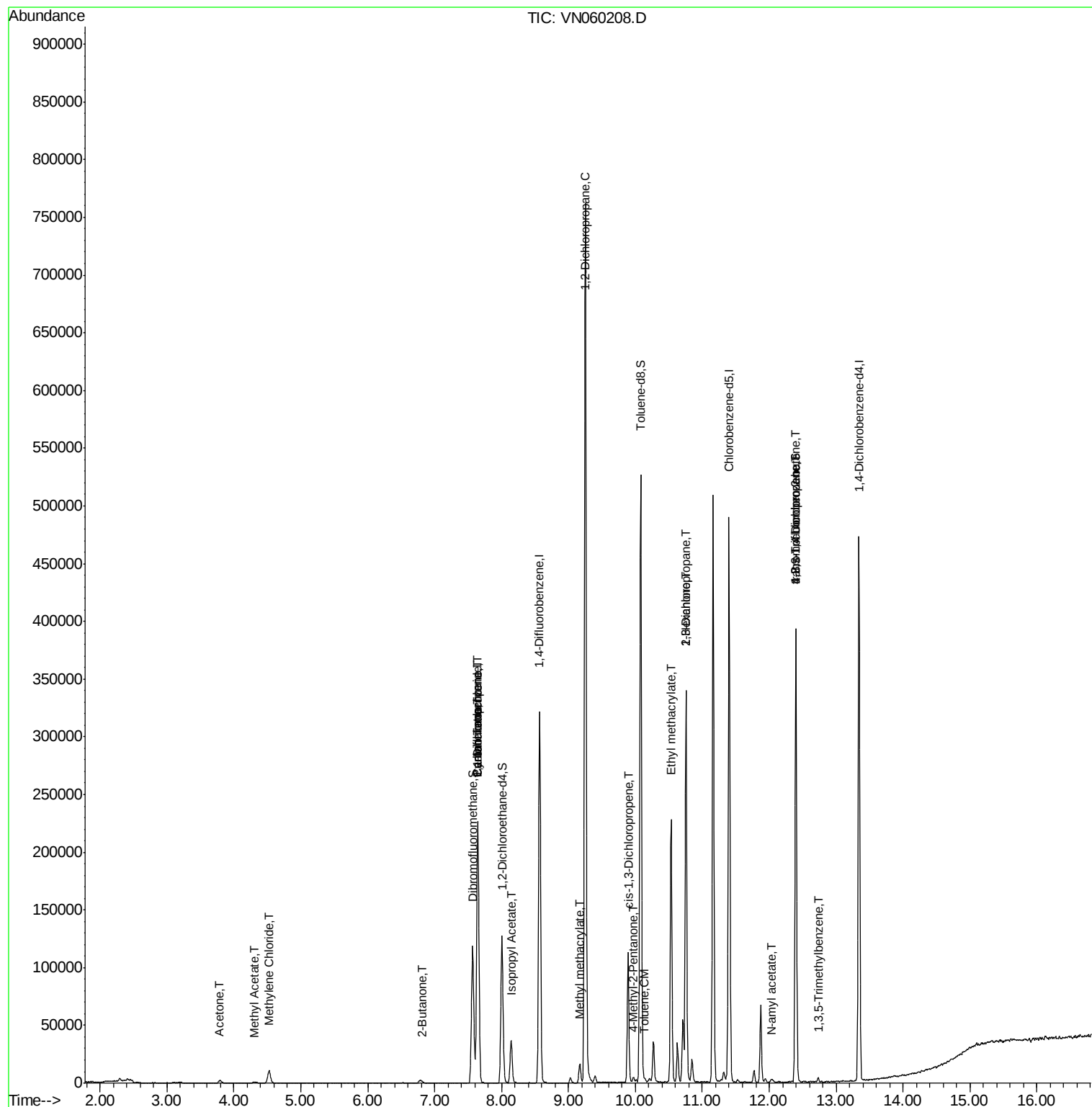
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4839	4.82	ug/l	96
18) Methyl Acetate	4.31	43	1078	0.57	ug/l #	50
20) Methylene Chloride	4.52	84	8935	4.46	ug/l	99
25) 2-Butanone	6.82	43	1115	0.88	ug/l #	46
31) Cyclohexane	7.65	56	3921	1.20	ug/l #	19
36) 1,1-Dichloropropene	7.64	75	13613	4.93	ug/l #	48
38) Carbon Tetrachloride	7.64	117	17690	5.90	ug/l #	15
43) Isopropyl Acetate	8.14	43	43499	10.20	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	919	0.45	ug/l #	43
48) Methyl methacrylate	9.16	41	2467	1.29	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3149	1.28	ug/l	89
52) Toluene	10.15	92	1159	0.22	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	20337	5.87	ug/l #	62
56) Ethyl methacrylate	10.54	69	601	0.21	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3549	1.05	ug/l #	43
59) 2-Hexanone	10.75	43	50853	26.67	ug/l #	52
74) N-amyl acetate	12.03	43	2440	0.70	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	68333	27.69	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2615	0.33	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	68333	67.80	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.18	75	60	Below Cal	#	1

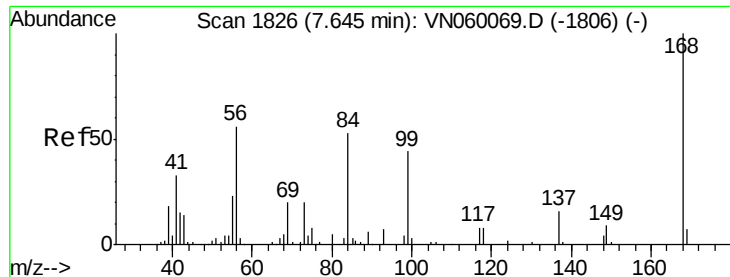
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

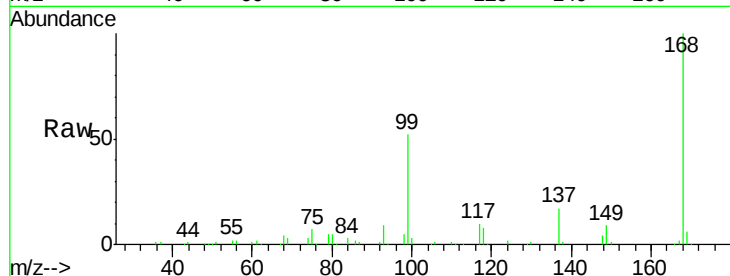
PB127001ZHE#01

Tgt Ion:168 Resp: 189212

Ion Ratio Lower Upper

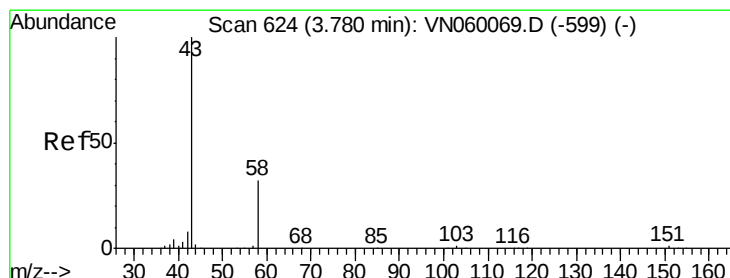
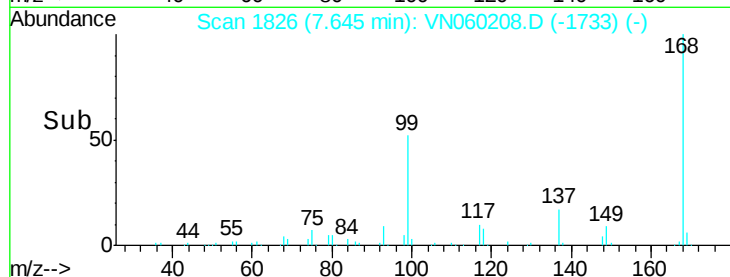
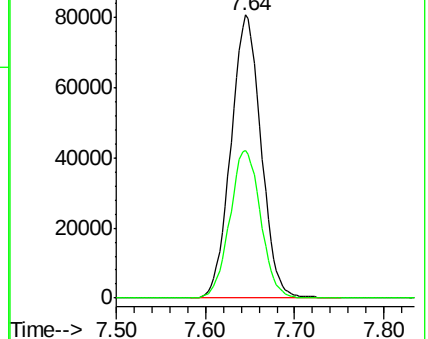
168 100

99 52.1 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060069.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN060069.D (-1806) (-)



#16

Acetone

Concen: 4.82 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060208.D

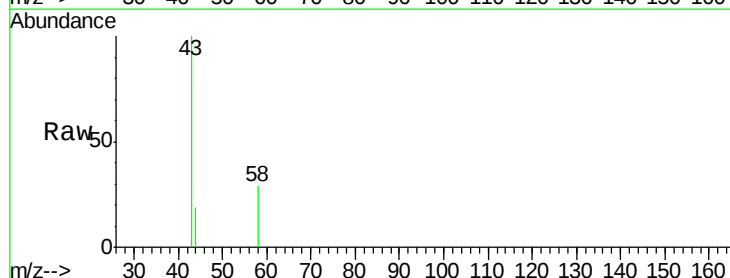
Acq: 24 Feb 2020 14:32

Tgt Ion: 43 Resp: 4839

Ion Ratio Lower Upper

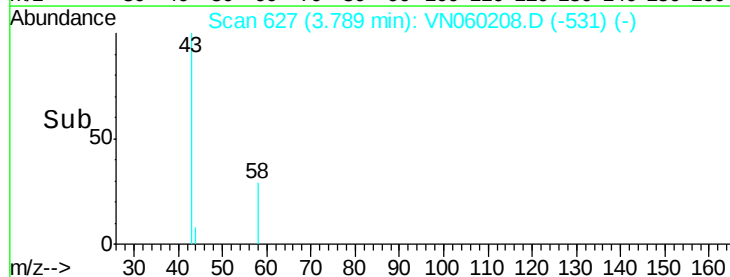
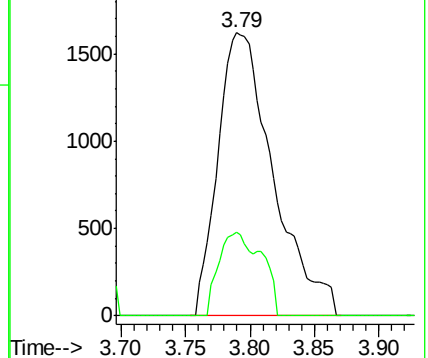
43 100

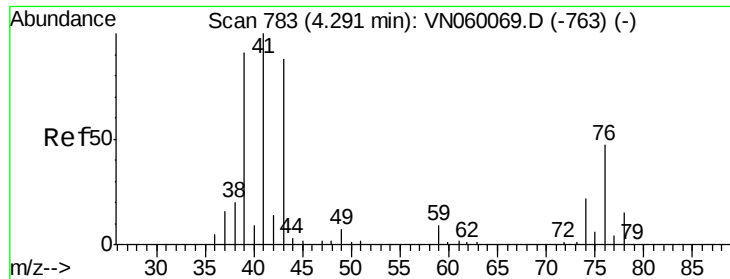
58 29.4 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-599) (-)

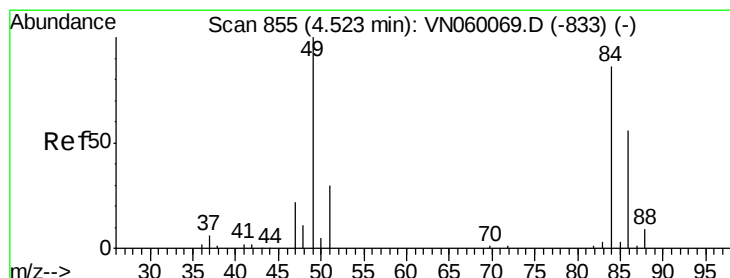
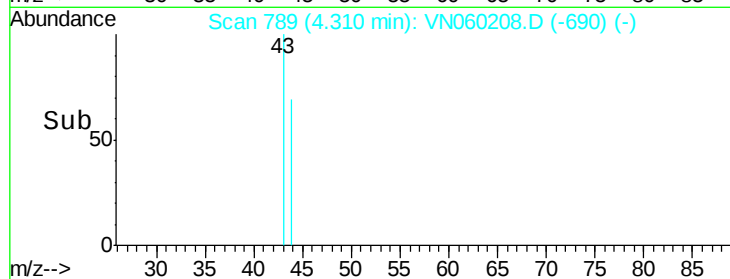
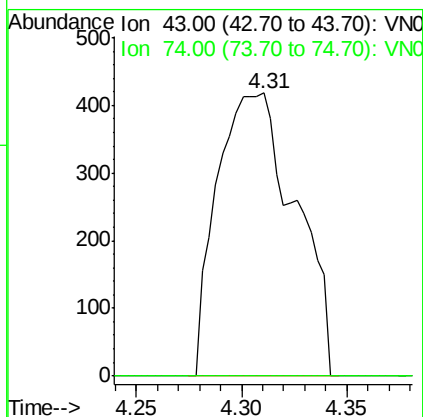
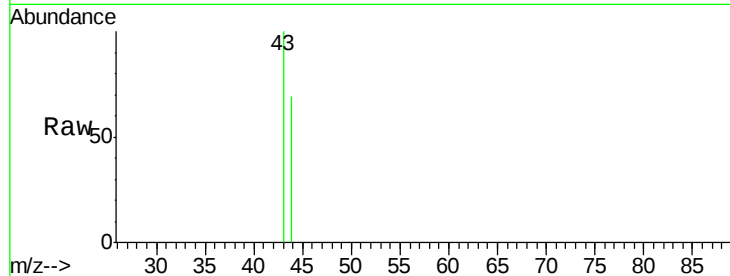




#18
Methyl Acetate
Concen: 0.57 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VN060208.D
Acq: 24 Feb 2020 14:32

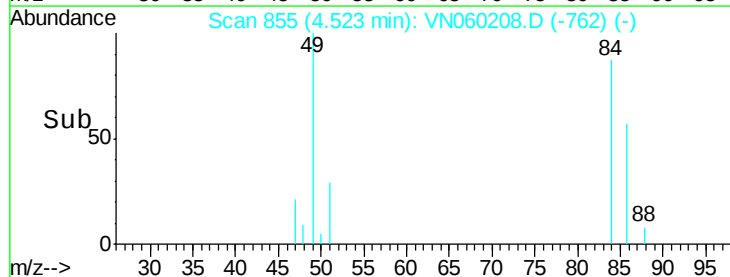
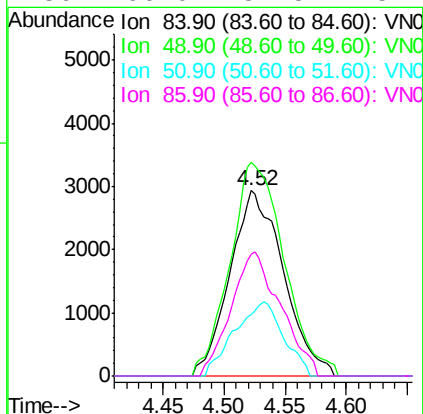
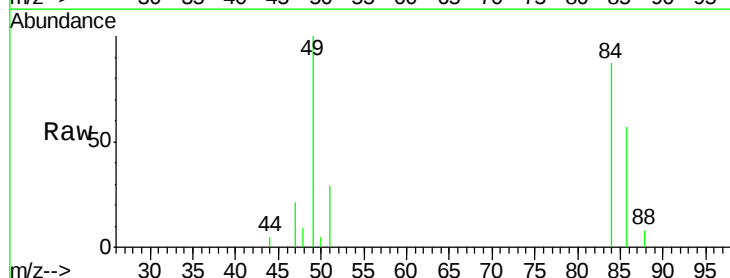
Instrument :
MSVOA_N
ClientSampleId :
PB127001ZHE#01

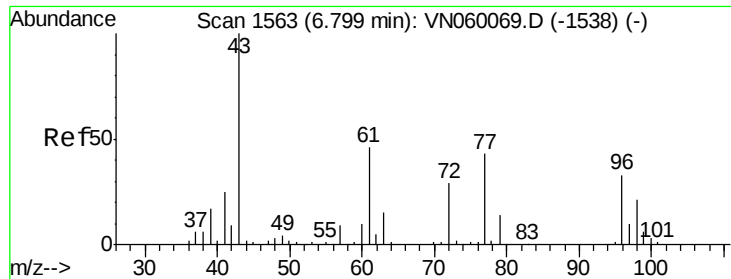
Tgt Ion: 43 Resp: 1078
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 4.46 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060208.D
Acq: 24 Feb 2020 14:32

Tgt Ion: 84 Resp: 8935
Ion Ratio Lower Upper
84 100
49 115.4 93.4 140.0
51 33.5 28.4 42.6
86 66.0 52.5 78.7

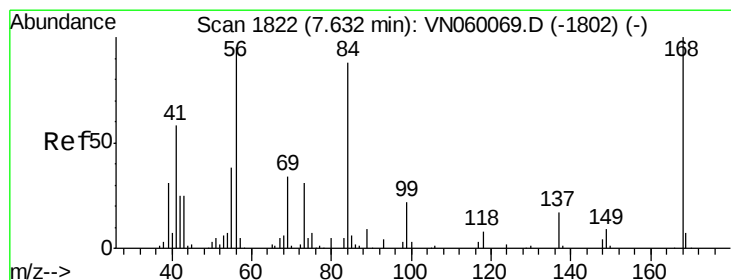
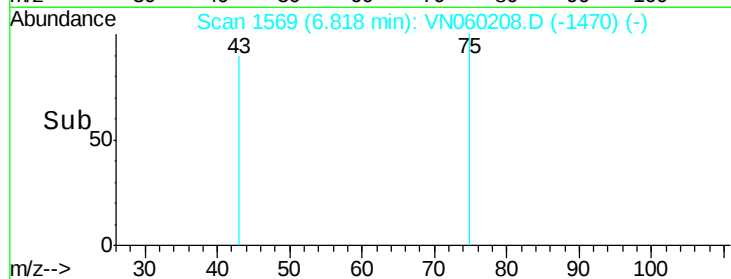
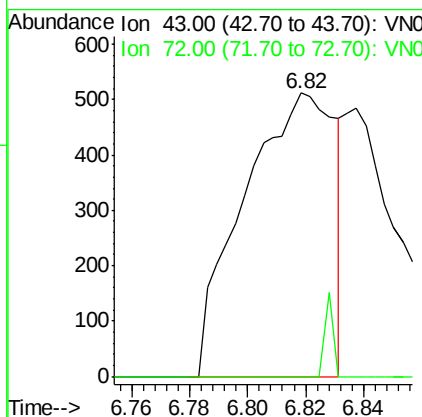
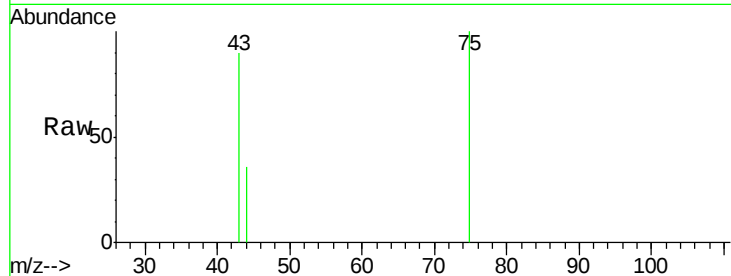




#25
2-Butanone
Concen: 0.88 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060208.D
Acq: 24 Feb 2020 14:32

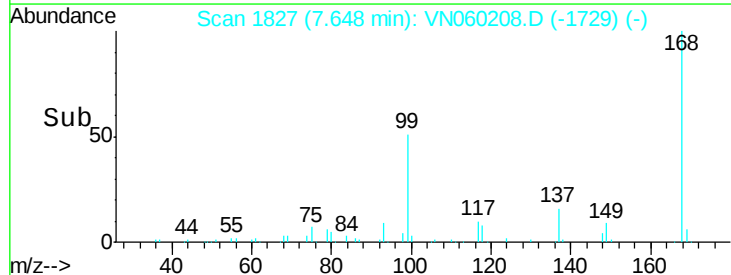
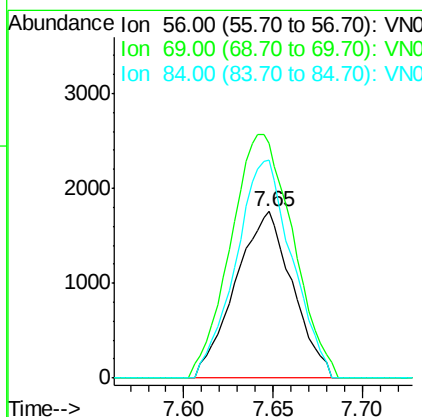
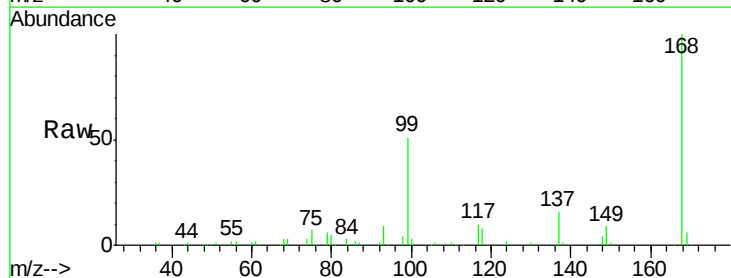
Instrument :
MSVOA_N
ClientSampleId :
PB127001ZHE#01

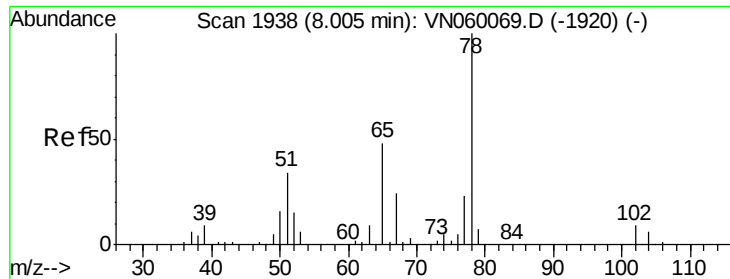
Tgt Ion: 43 Resp: 1115
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#



#31
Cyclohexane
Concen: 1.20 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: VN060208.D
Acq: 24 Feb 2020 14:32

Tgt Ion: 56 Resp: 3921
Ion Ratio Lower Upper
56 100
69 140.6 28.3 42.5#
84 130.6 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 48.15 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

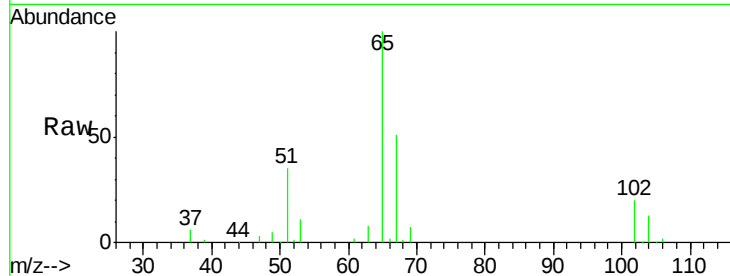
PB127001ZHE#01

Tgt Ion: 65 Resp: 110869

Ion Ratio Lower Upper

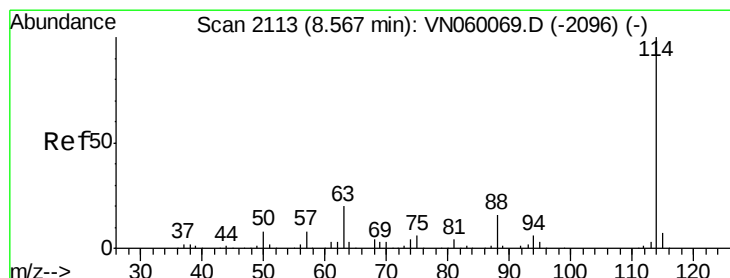
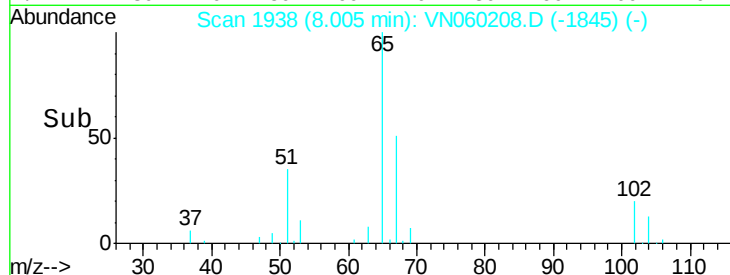
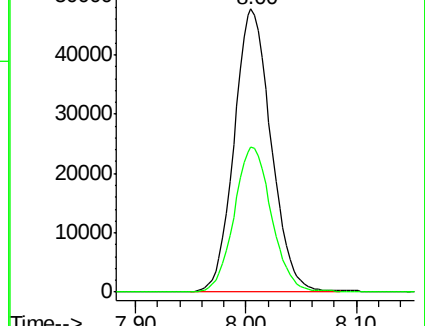
65 100

67 51.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

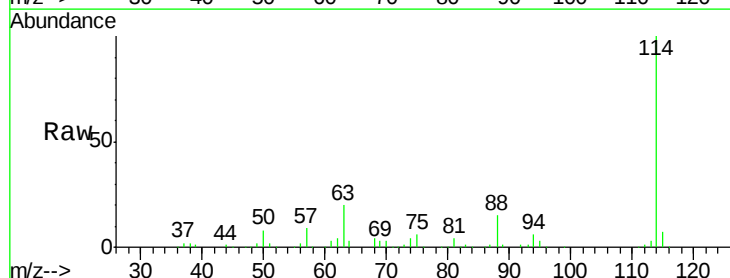
Tgt Ion: 114 Resp: 298044

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

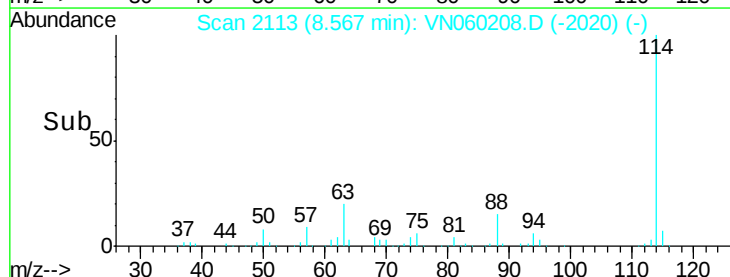
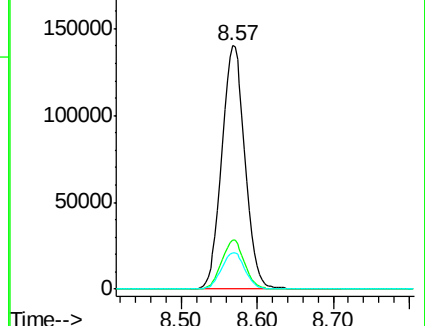
88 15.1 0.0 31.6

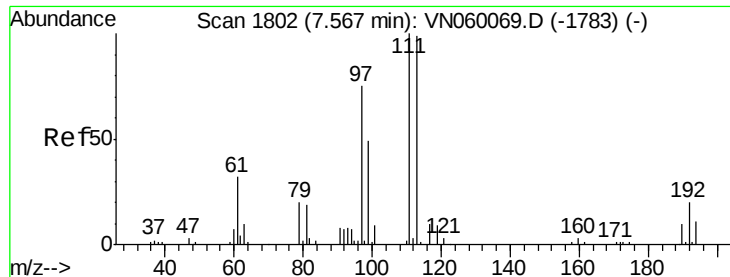


Abundance Ion 113.90 (113.60 to 114.60): VN060069.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN060069.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN060069.D (-2096) (-)

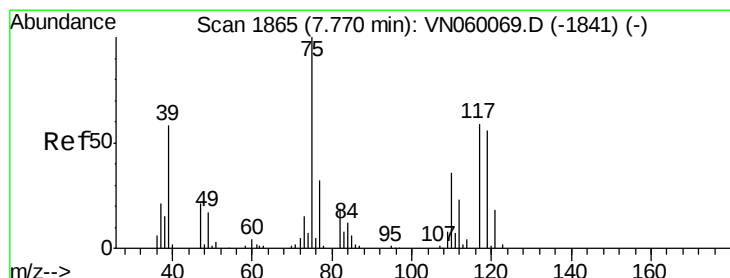
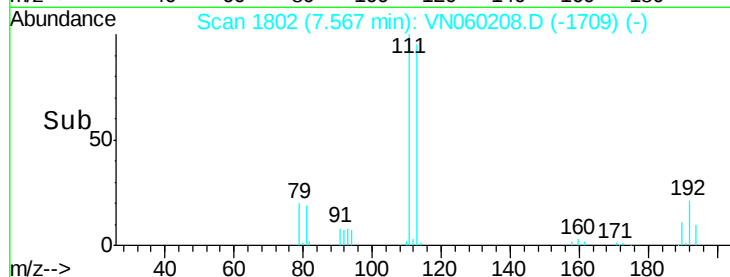
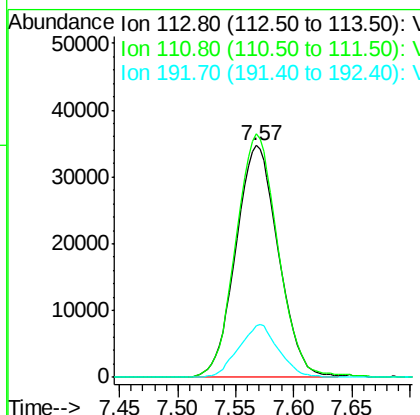
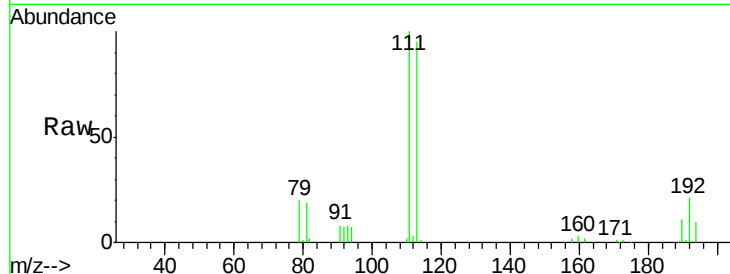




#35
 Dibromofluoromethane
 Concen: 48.31 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060208.D
 Acq: 24 Feb 2020 14:32

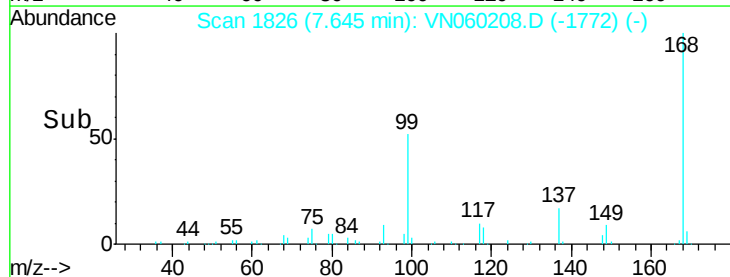
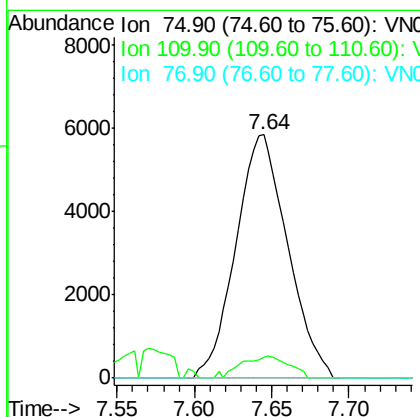
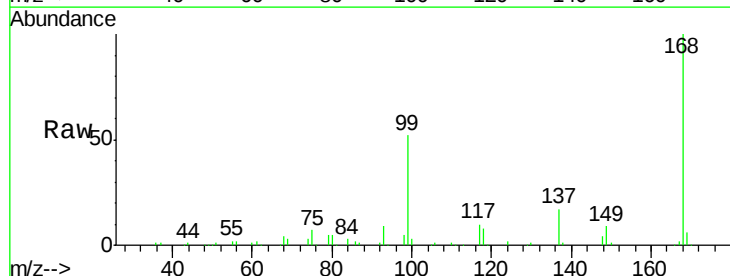
Instrument :
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 PB127001ZHE#01

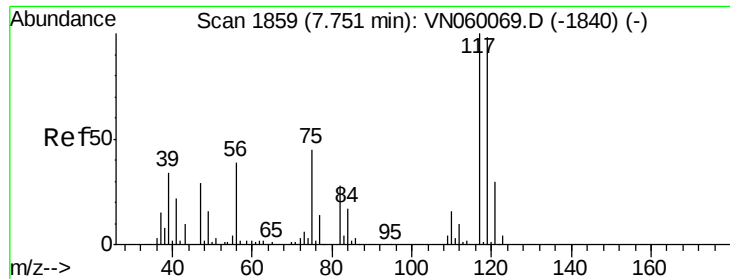
Tgt Ion: 113 Resp: 88511
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.4 122.2
 192 21.4 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.93 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060208.D
 Acq: 24 Feb 2020 14:32

Tgt Ion: 75 Resp: 13613
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.90 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#01

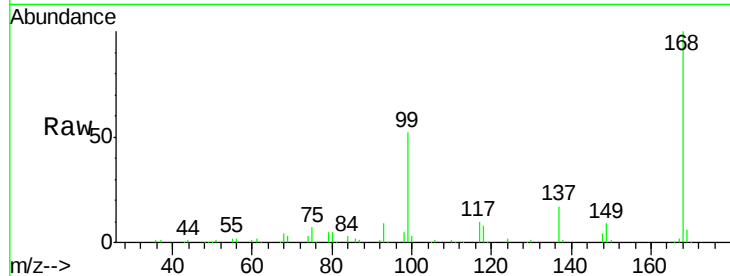
Tgt Ion: 117 Resp: 17690

Ion Ratio Lower Upper

117 100

119 4.3 78.2 117.4#

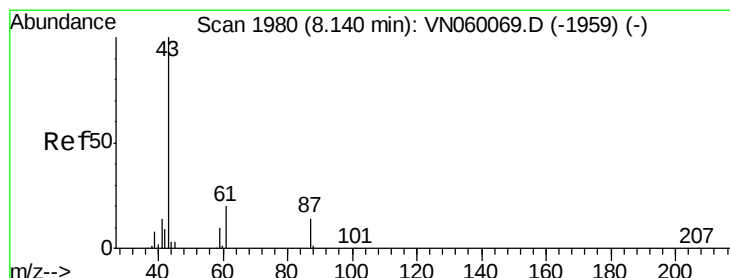
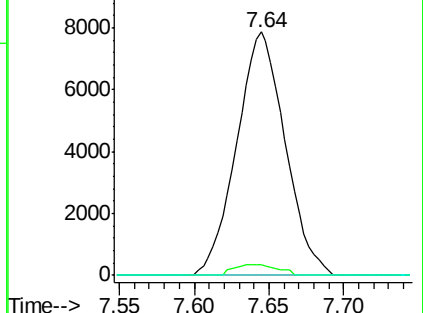
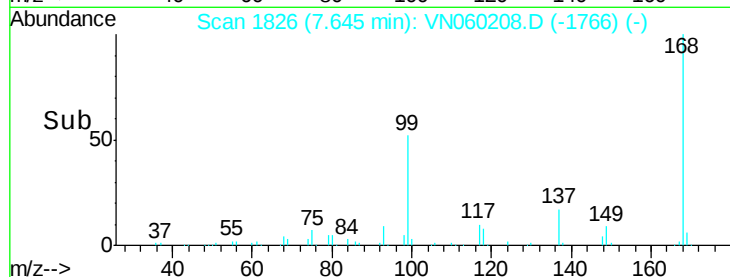
121 0.0 24.2 36.2#



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: 10.20 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

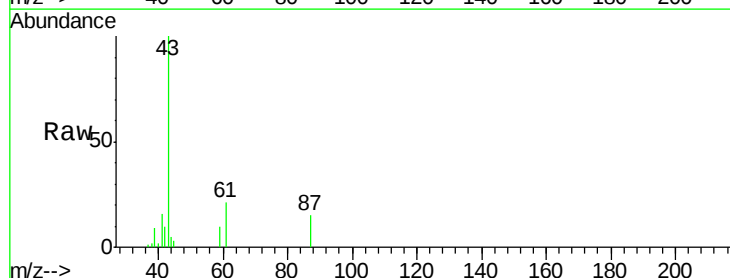
Tgt Ion: 43 Resp: 43499

Ion Ratio Lower Upper

43 100

61 20.4 21.8 32.6#

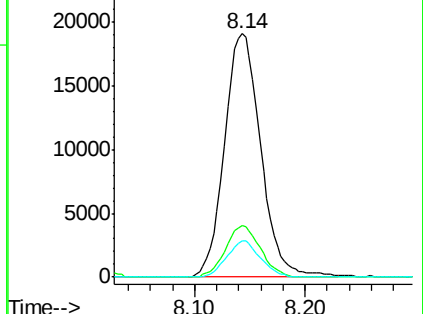
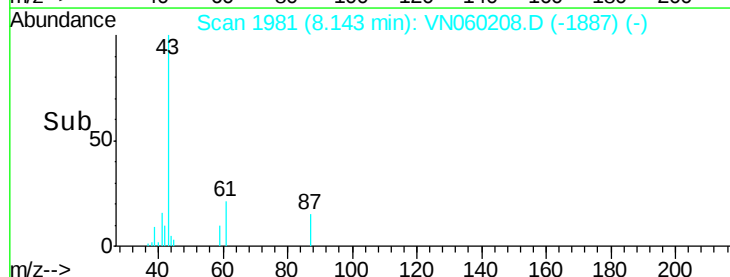
87 13.8 11.4 17.2

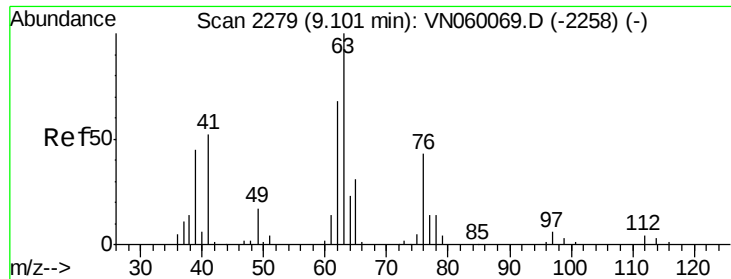


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

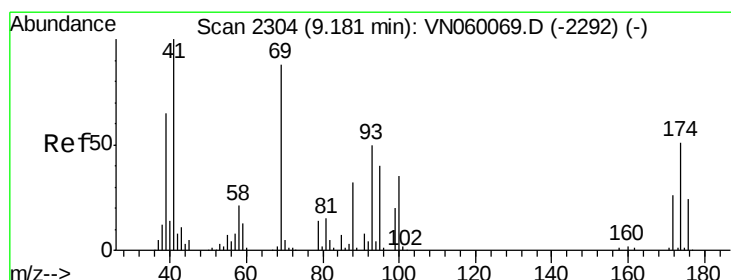
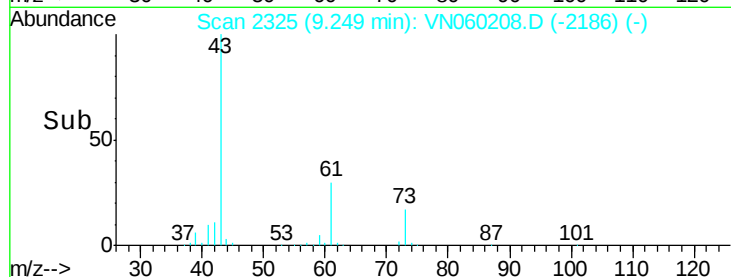
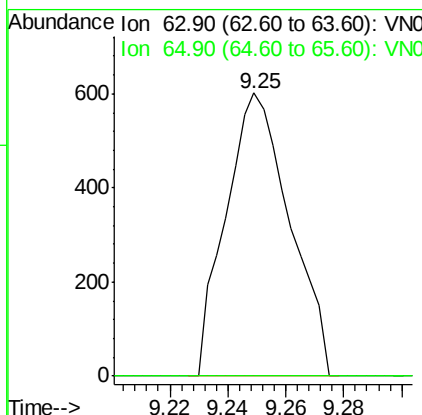
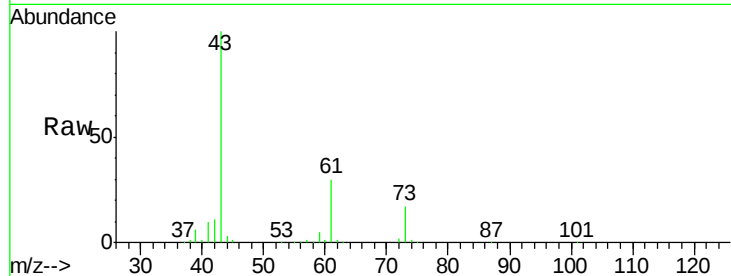




#45
 1,2-Dichloropropane
 Concen: 0.45 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060208.D
 Acq: 24 Feb 2020 14:32

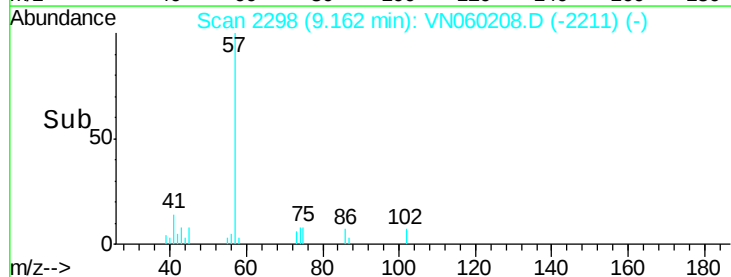
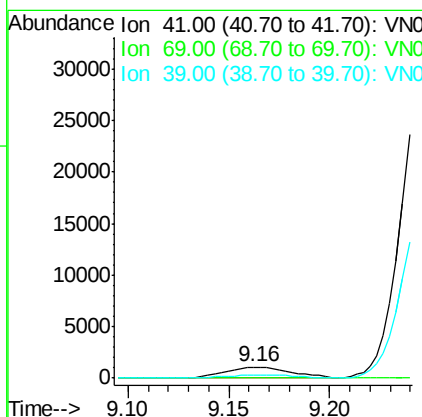
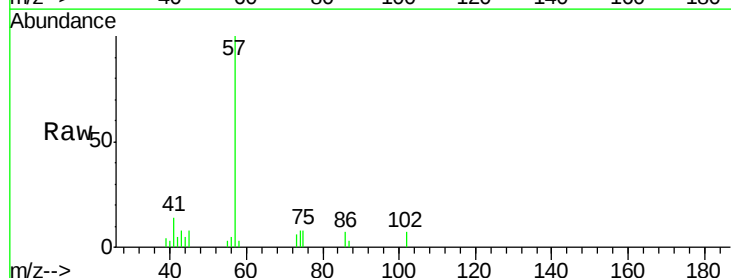
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#01

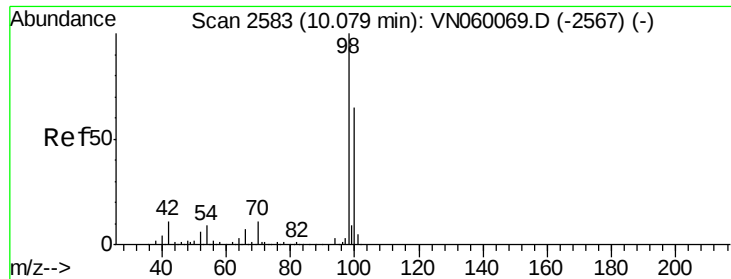
Tgt Ion: 63 Resp: 919
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.29 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060208.D
 Acq: 24 Feb 2020 14:32

Tgt Ion: 41 Resp: 2467
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 50.12 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

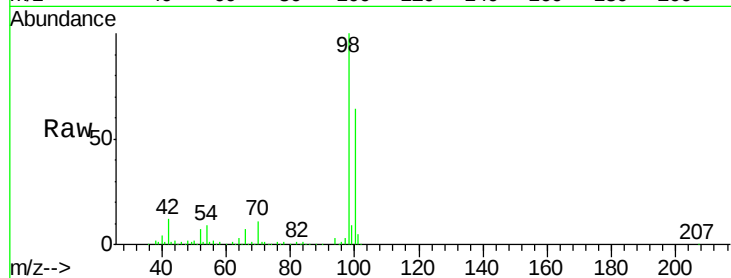
PB127001ZHE#01

Tgt Ion: 98 Resp: 361619

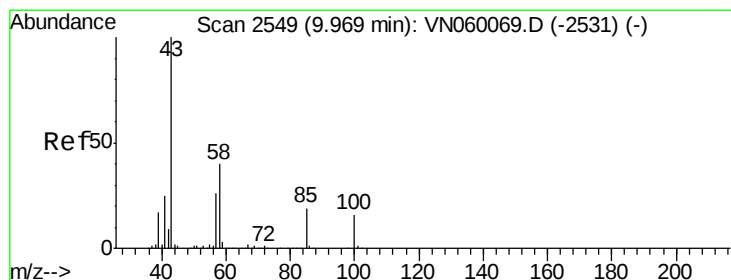
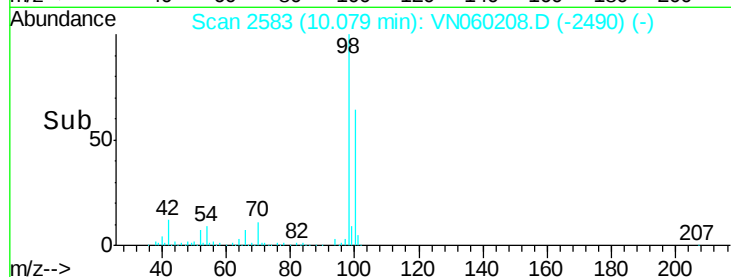
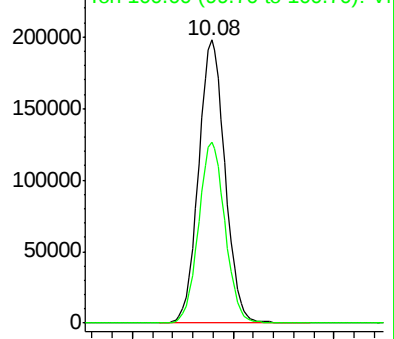
Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060069.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.28 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060208.D

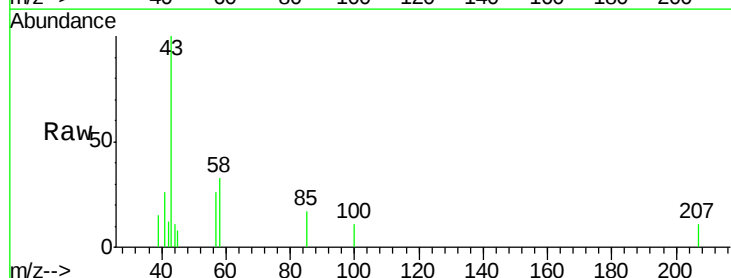
Acq: 24 Feb 2020 14:32

Tgt Ion: 43 Resp: 3149

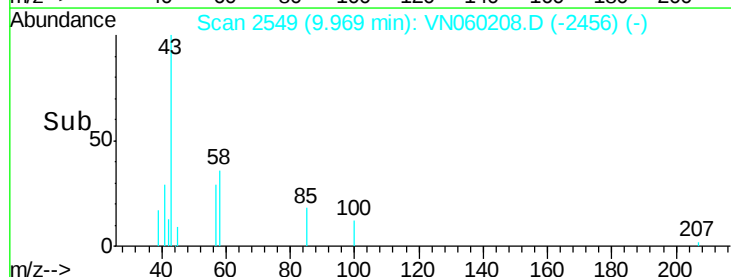
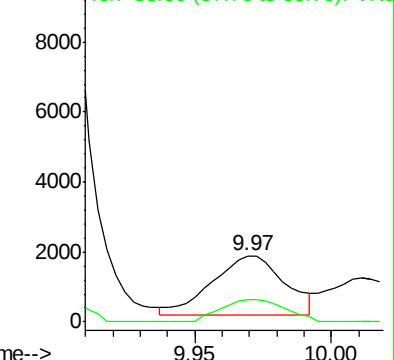
Ion Ratio Lower Upper

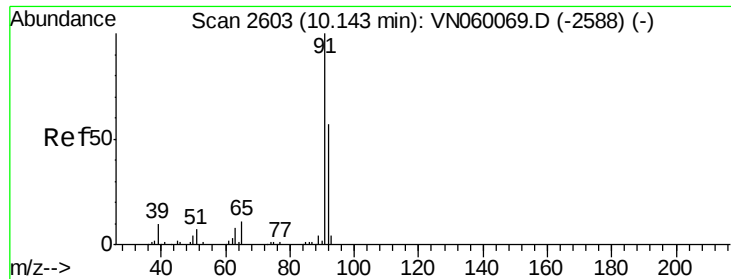
43 100

58 33.2 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2531) (-)





#52

Toluene

Concen: 0.22 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

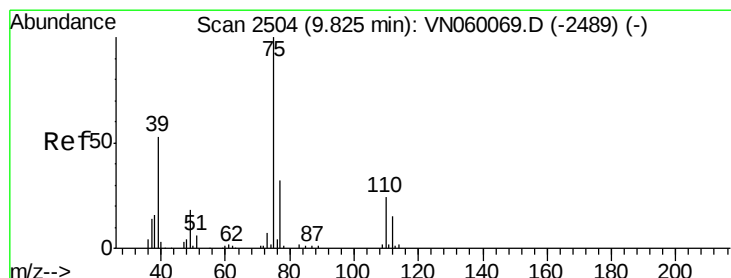
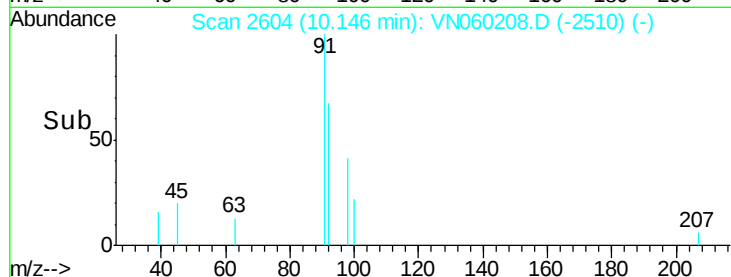
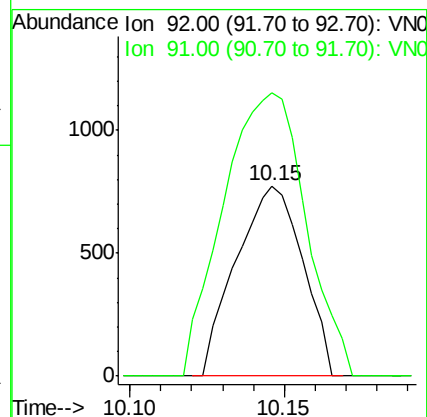
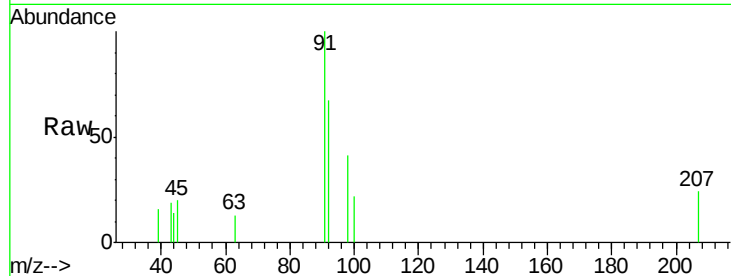
PB127001ZHE#01

Tgt Ion: 92 Resp: 1159

Ion Ratio Lower Upper

92 100

91 184.2 140.9 211.3



#54

cis-1,3-Dichloropropene

Concen: 5.87 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

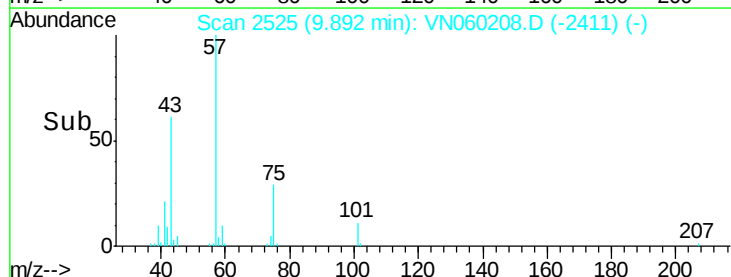
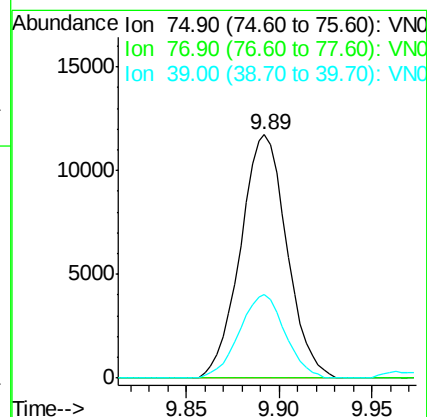
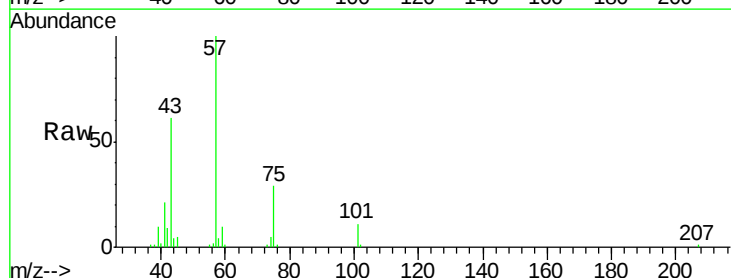
Tgt Ion: 75 Resp: 20337

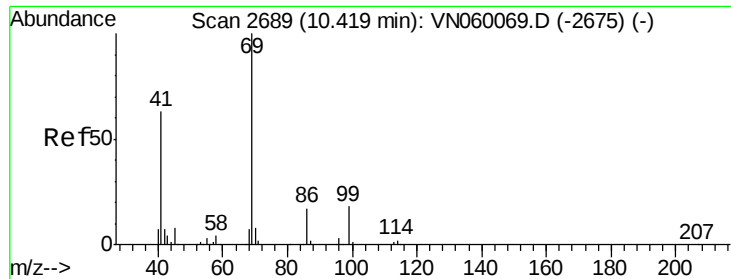
Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 34.3 42.2 63.4#





#56

Ethyl methacrylate

Concen: 0.21 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.12 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#01

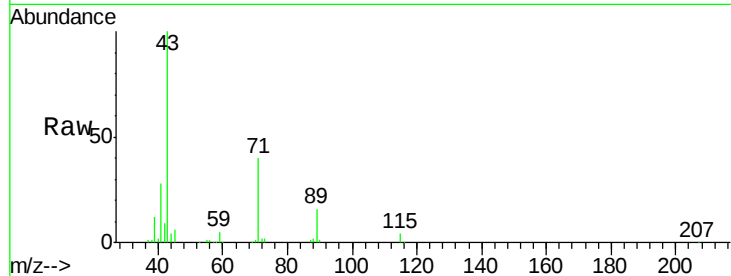
Tgt Ion: 69 Resp: 601

Ion Ratio Lower Upper

69 100

41 7399.3 51.1 76.7#

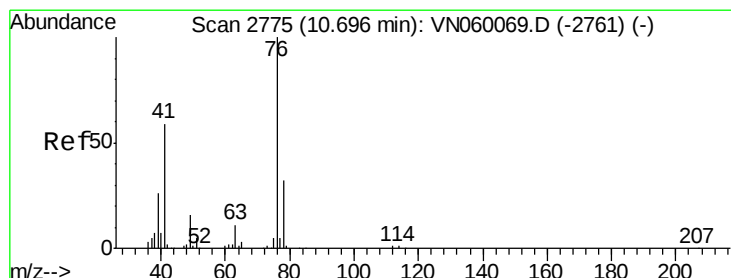
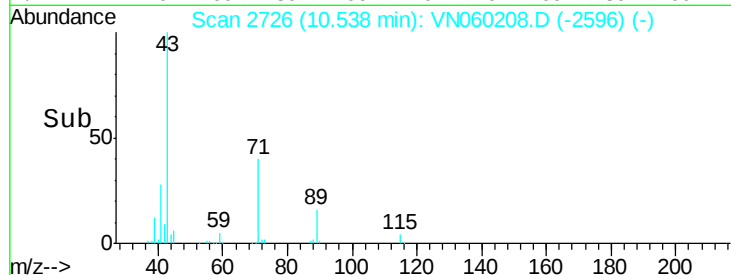
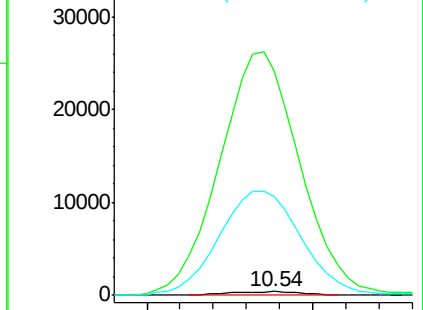
39 3256.1 33.8 50.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.05 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060208.D

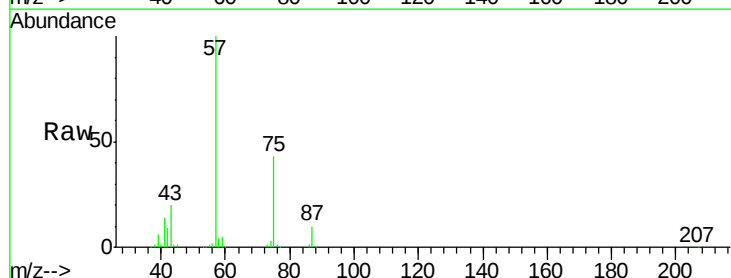
Acq: 24 Feb 2020 14:32

Tgt Ion: 76 Resp: 3549

Ion Ratio Lower Upper

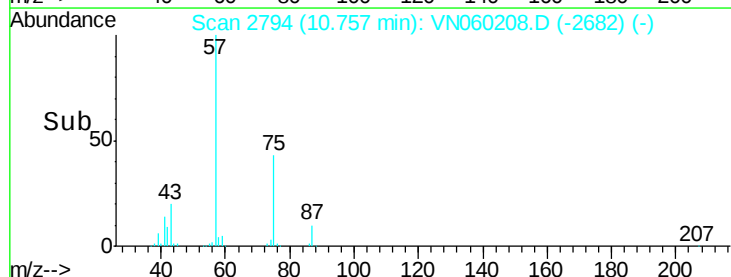
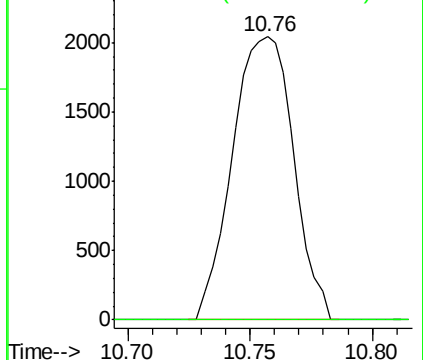
76 100

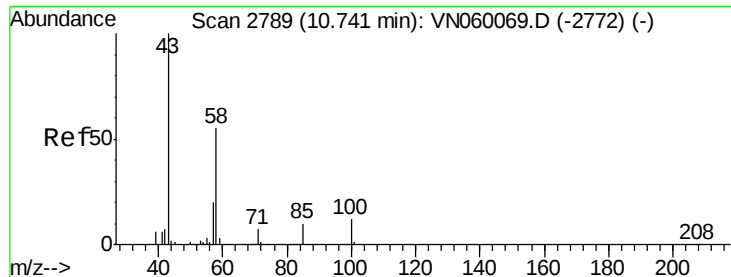
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

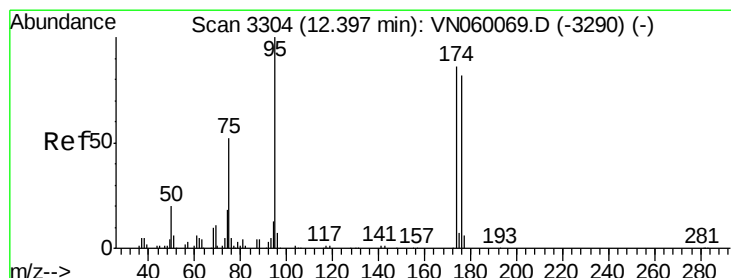
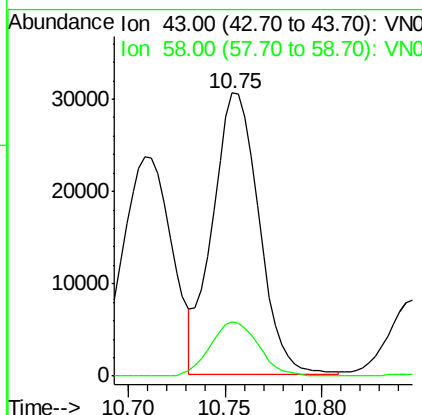
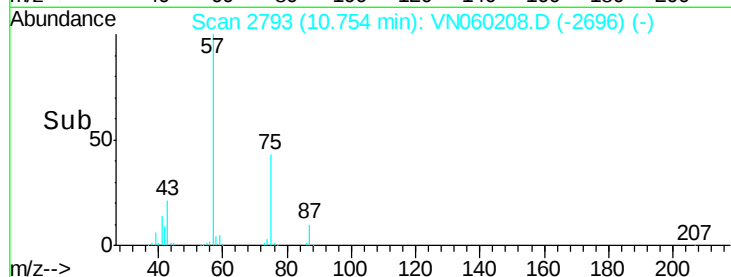
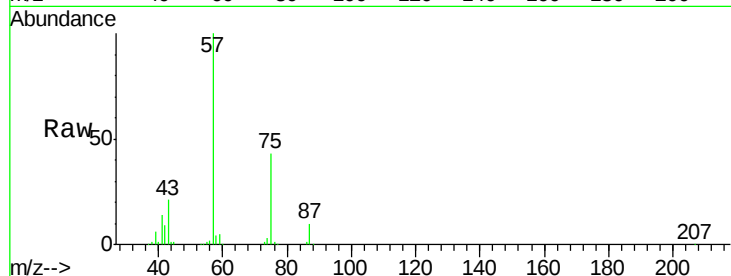




#59
2-Hexanone
Concen: 26.67 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060208.D
Acq: 24 Feb 2020 14:32

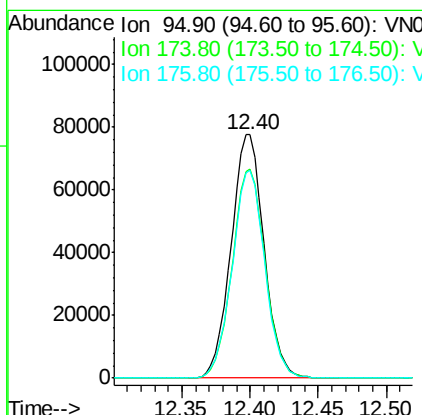
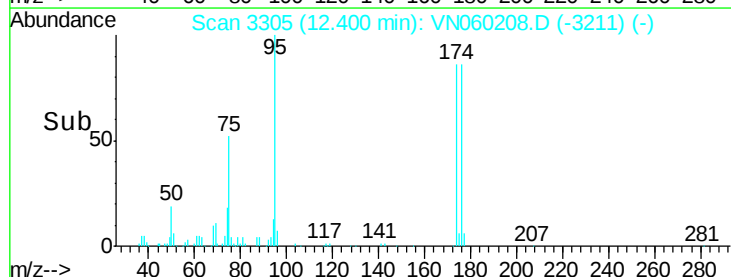
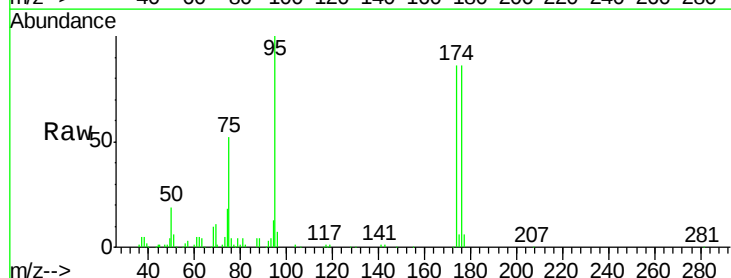
Instrument :
MSVOA_N
ClientSampleId :
PB127001ZHE#01

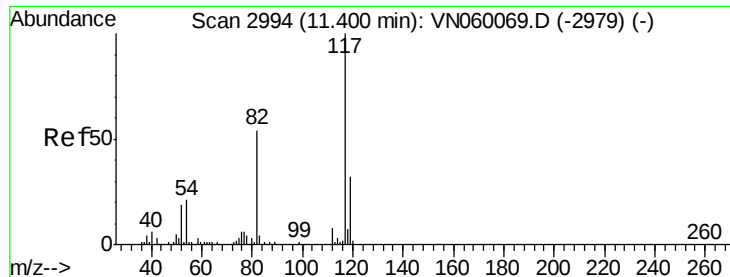
Tgt Ion: 43 Resp: 50853
Ion Ratio Lower Upper
43 100
58 20.0 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.11 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN060208.D
Acq: 24 Feb 2020 14:32

Tgt Ion: 95 Resp: 130195
Ion Ratio Lower Upper
95 100
174 85.8 0.0 169.8
176 84.5 0.0 164.8





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#01

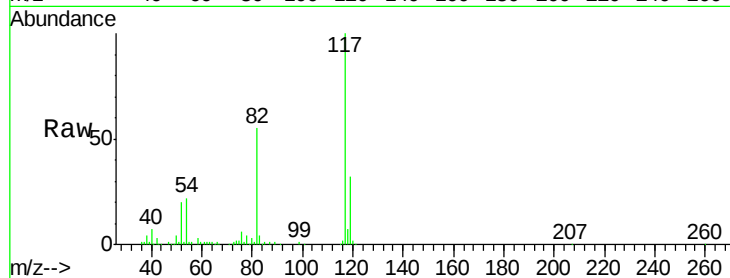
Tgt Ion:117 Resp: 281959

Ion Ratio Lower Upper

117 100

82 54.7 43.4 65.0

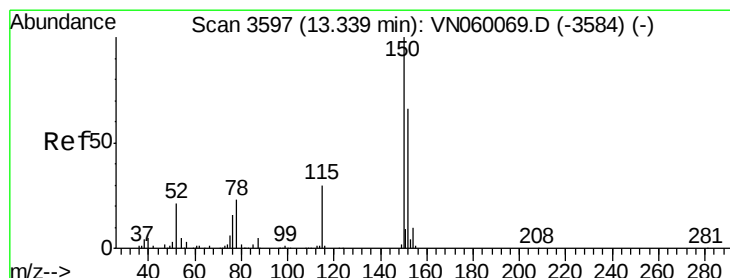
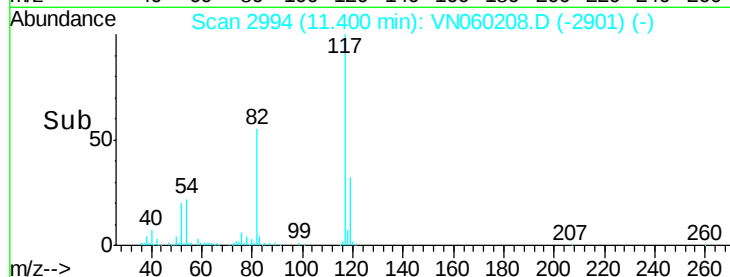
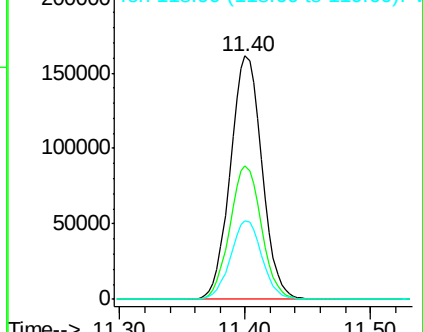
119 32.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

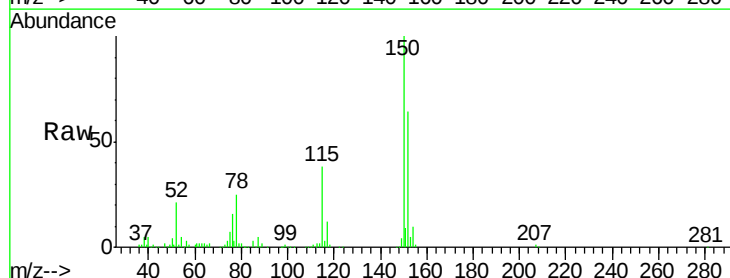
Tgt Ion:152 Resp: 128985

Ion Ratio Lower Upper

152 100

115 58.9 28.9 86.8

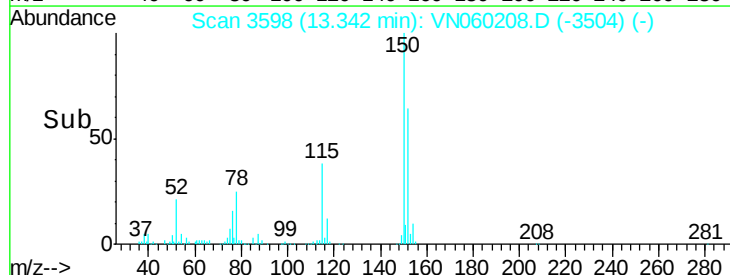
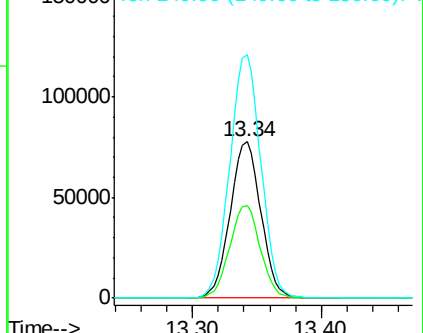
150 157.2 0.0 342.4

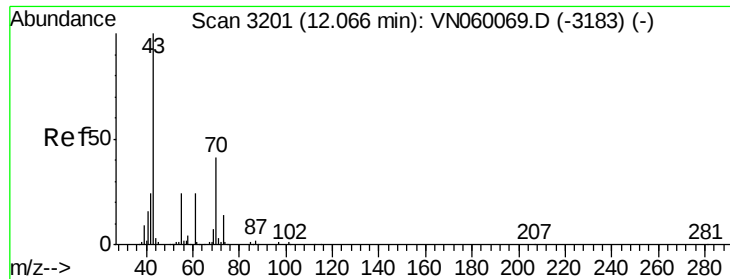


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.70 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#01

Tgt Ion: 43 Resp: 2440

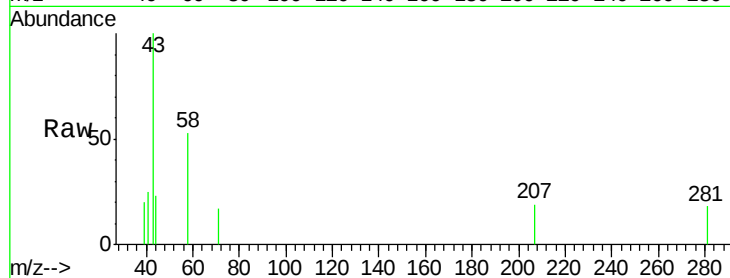
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

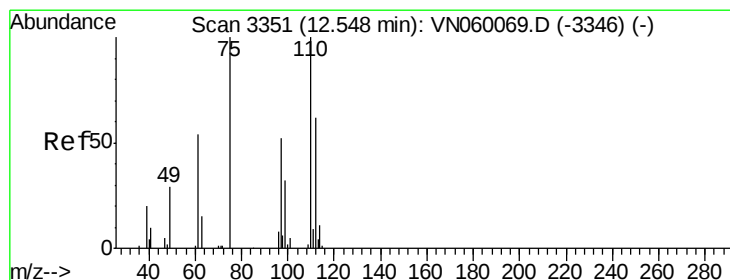
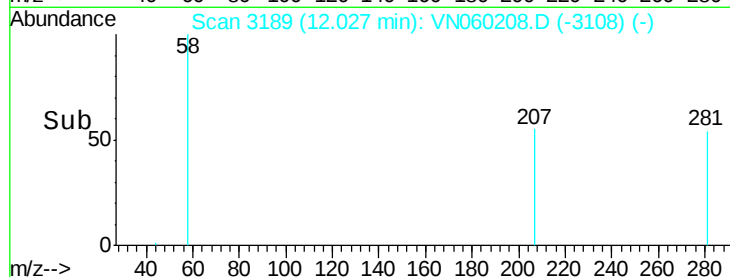
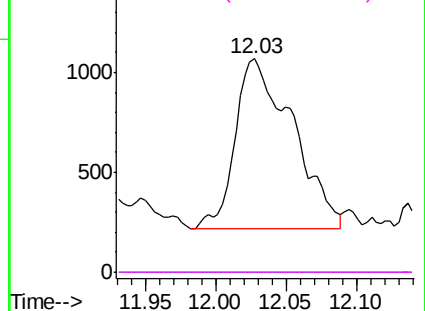


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.69 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060208.D

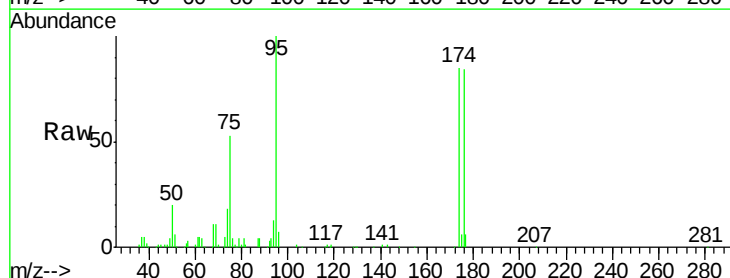
Acq: 24 Feb 2020 14:32

Tgt Ion: 75 Resp: 68333

Ion Ratio Lower Upper

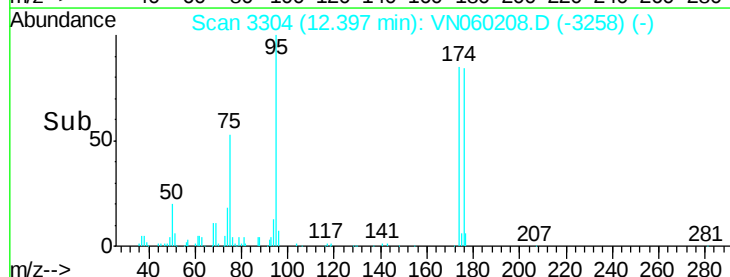
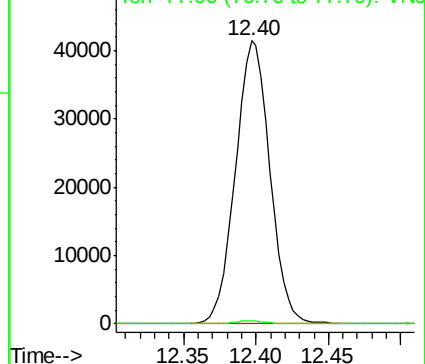
75 100

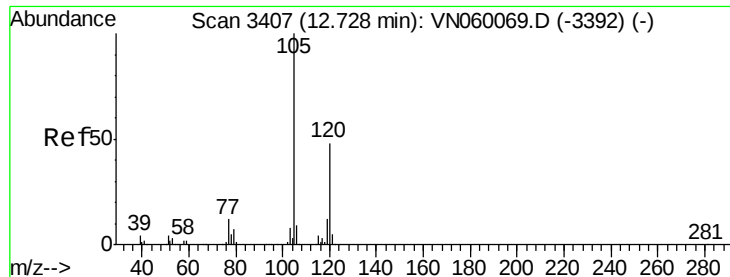
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

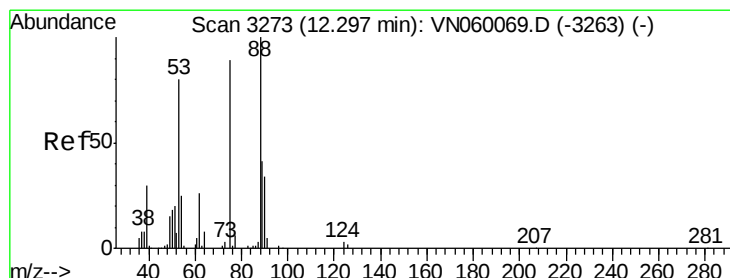
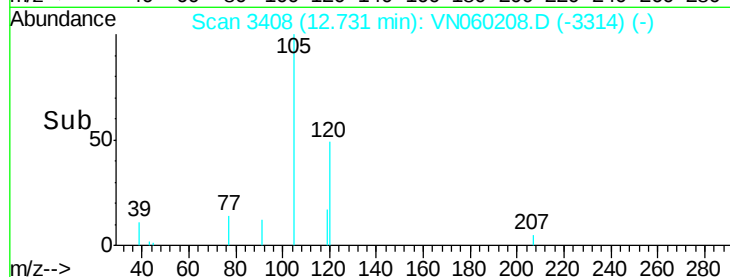
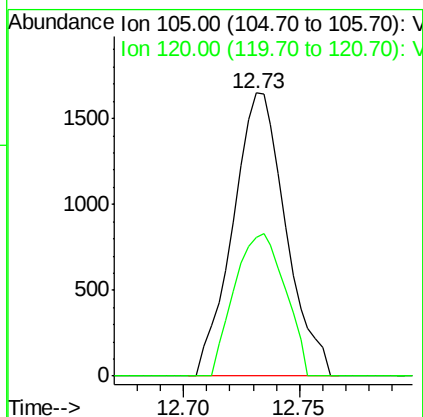
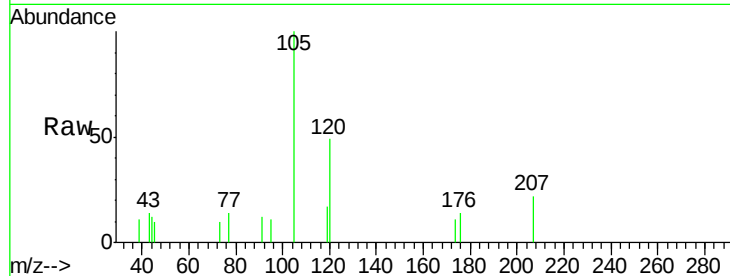




#80
 1,3,5-Trimethylbenzene
 Concen: 0.33 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN060208.D
 Acq: 24 Feb 2020 14:32

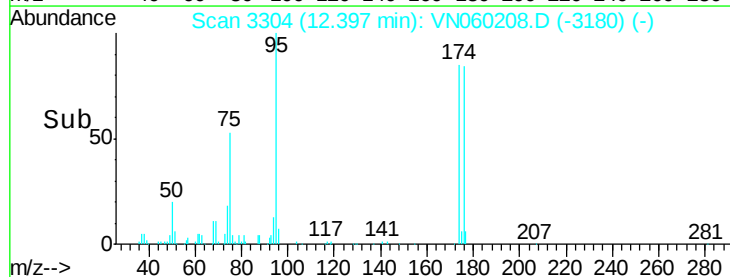
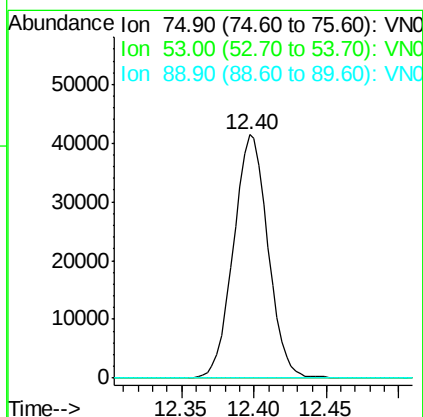
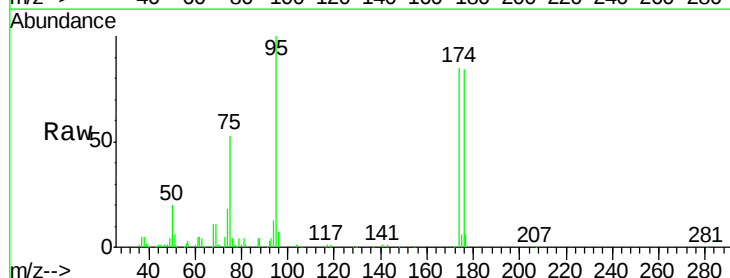
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#01

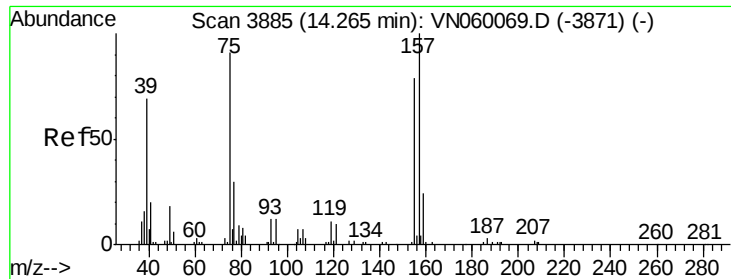
Tgt Ion: 105 Resp: 2615
 Ion Ratio Lower Upper
 105 100
 120 48.3 24.3 72.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.80 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060208.D
 Acq: 24 Feb 2020 14:32

Tgt Ion: 75 Resp: 68333
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.9 110.9#
 89 0.0 37.0 55.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.18 min Scan# 3859

Delta R.T. -0.08 min

Lab File: VN060208.D

Acq: 24 Feb 2020 14:32

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#01

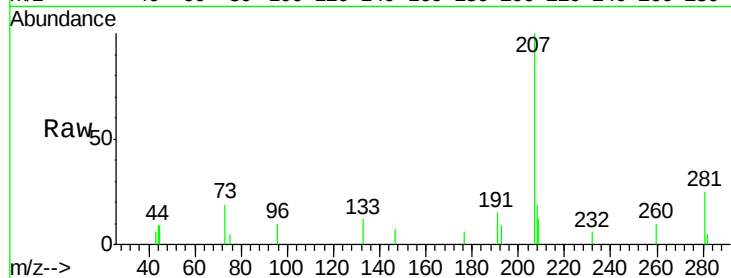
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

