

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060738.D
 Acq On : 27 Mar 2020 13:45
 Operator : JC/MD
 Sample : PB127814ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#03

Quant Time: Mar 28 01:58:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	191099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	317966	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	299755	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136745	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	123175	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
35) Dibromofluoromethane	7.56	113	93771	48.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	
50) Toluene-d8	10.08	98	391222	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
62) 4-Bromofluorobenzene	12.40	95	147316	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	

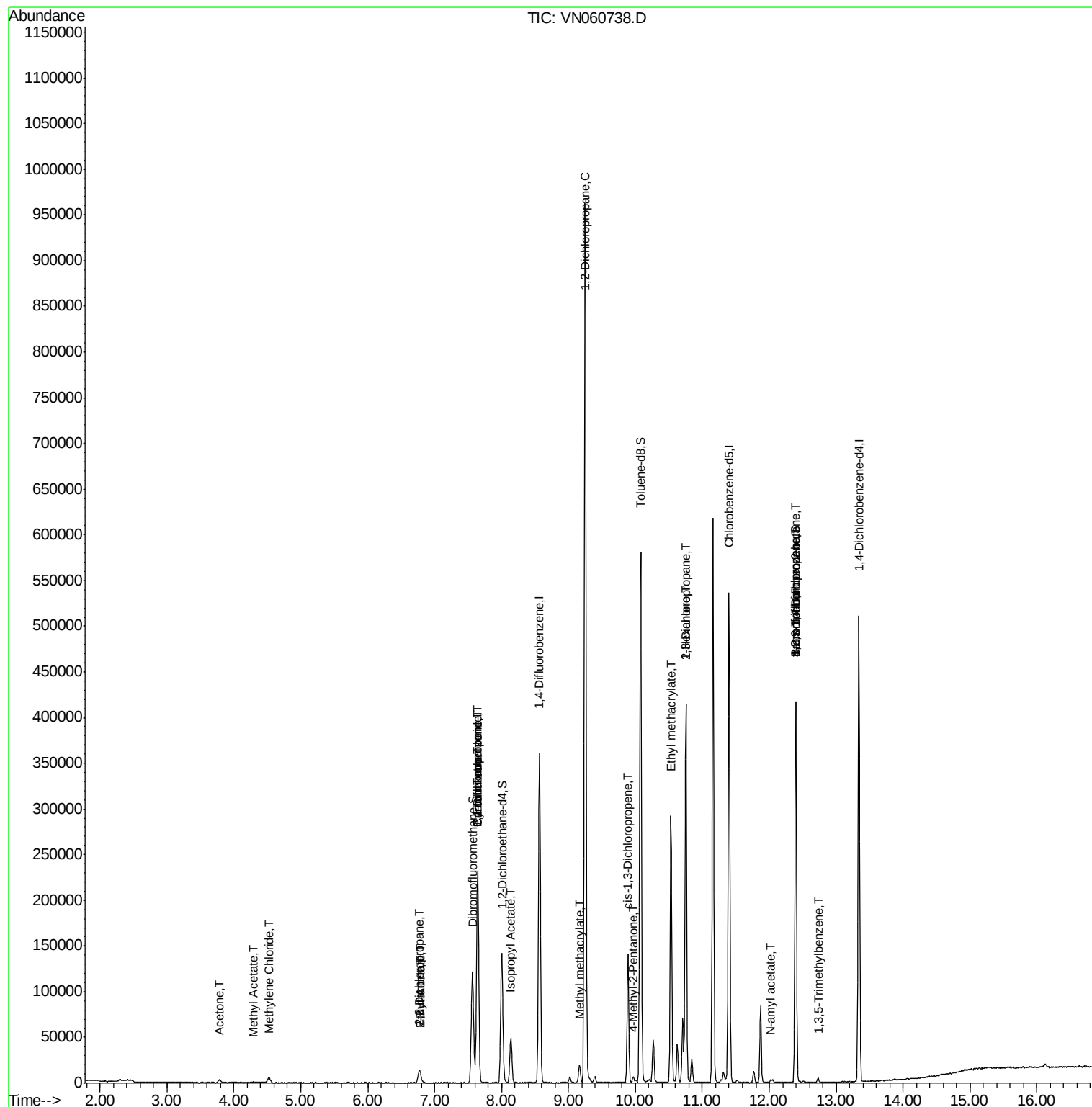
Target Compounds						Qvalue
16) Acetone	3.78	43	5825	6.269	ug/l	91
18) Methyl Acetate	4.29	43	1831	0.700	ug/l #	61
20) Methylene Chloride	4.52	84	4374	1.913	ug/l	95
25) 2-Butanone	6.80	43	1890	1.257	ug/l #	50
26) 2,2-Dichloropropane	6.78	77	899	0.273	ug/l #	53
31) Cyclohexane	7.63	56	4194	0.993	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14721	4.781	ug/l #	49
37) Ethyl Acetate	6.80	43	1890	0.568	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18596	6.739	ug/l #	16
43) Isopropyl Acetate	8.14	43	59091	10.770	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1107	0.451	ug/l #	43
48) Methyl methacrylate	9.16	41	2970	1.216	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4737	1.517	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	25104	6.466	ug/l #	62
56) Ethyl methacrylate	10.54	69	679	0.202	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4049	1.080	ug/l #	42
59) 2-Hexanone	10.75	43	60326	26.823	ug/l #	52
71) Bromoform	12.39	173	289	1.837	ug/l #	1
74) N-amyl acetate	12.02	43	2784	0.587	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	74505	25.250	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3164	0.363	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	74505	64.850	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.54	75	69	Below Cal	#	3

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

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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: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

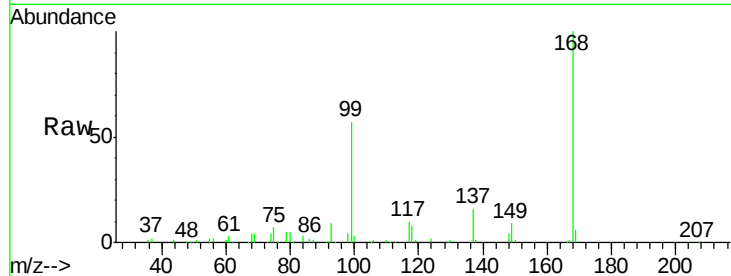
PB127814ZHE#03

Tgt Ion:168 Resp: 191099

Ion Ratio Lower Upper

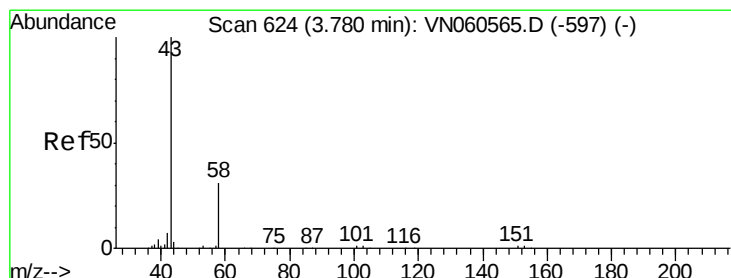
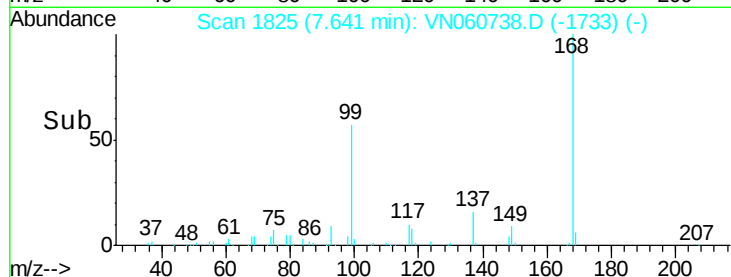
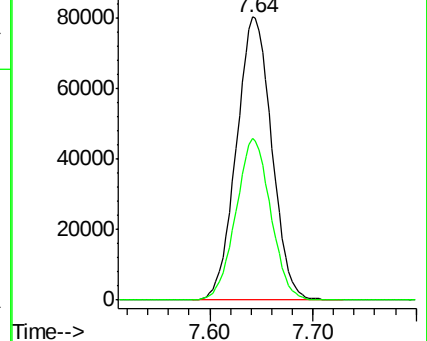
168 100

99 57.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 6.269 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060738.D

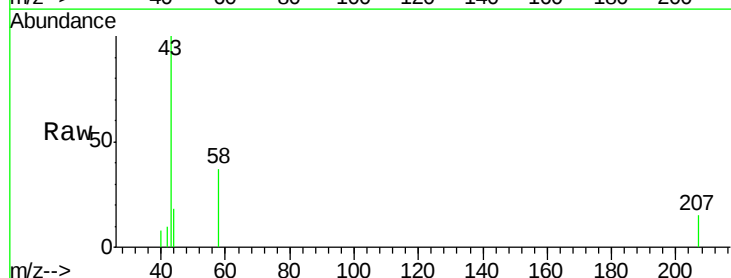
Acq: 27 Mar 2020 13:45

Tgt Ion: 43 Resp: 5825

Ion Ratio Lower Upper

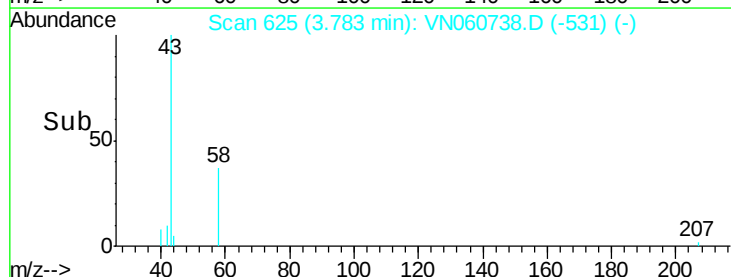
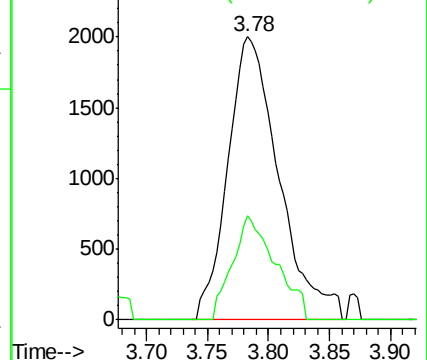
43 100

58 36.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

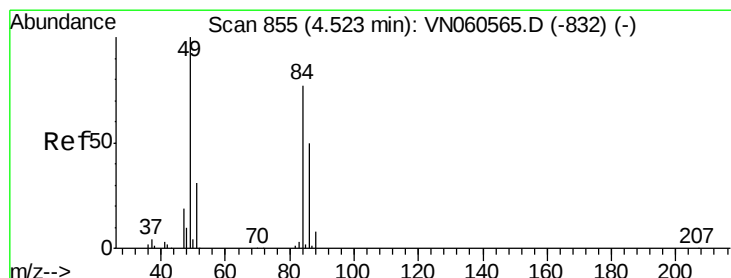
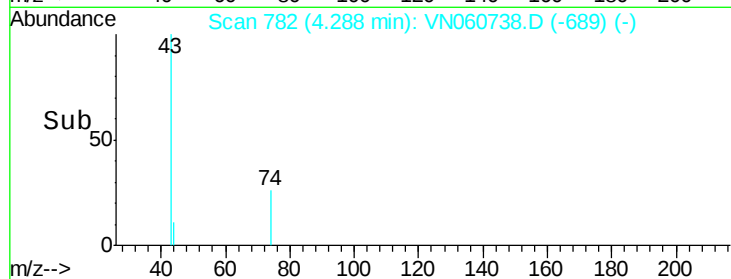
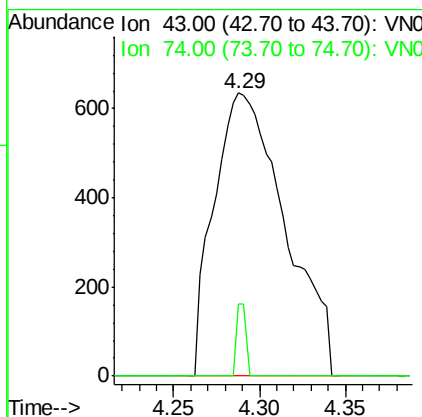
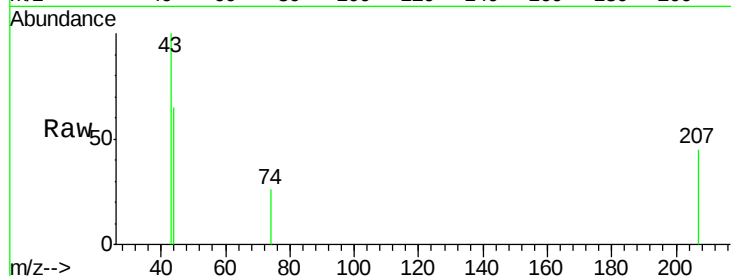




#18
Methyl Acetate
Concen: 0.700 ug/l
RT: 4.29 min Scan# 782
Delta R.T. -0.00 min
Lab File: VN060738.D
Acq: 27 Mar 2020 13:45

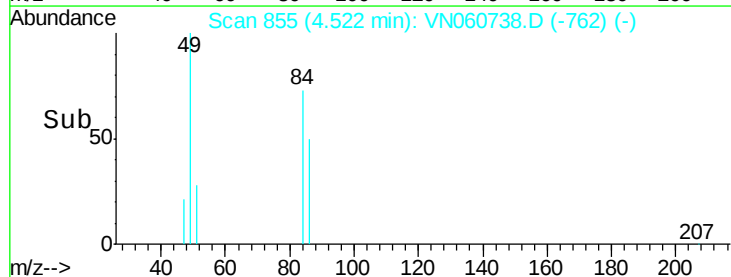
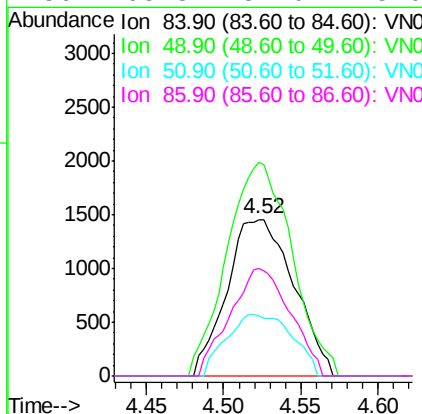
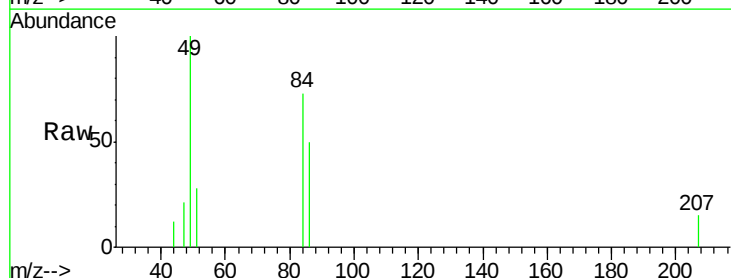
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#03

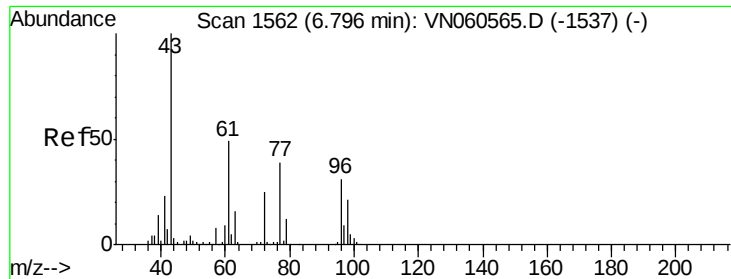
Tgt Ion: 43 Resp: 1831
Ion Ratio Lower Upper
43 100
74 3.4 17.5 26.3#



#20
Methylene Chloride
Concen: 1.913 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060738.D
Acq: 27 Mar 2020 13:45

Tgt Ion: 84 Resp: 4374
Ion Ratio Lower Upper
84 100
49 136.4 103.3 154.9
51 38.0 31.6 47.4
86 68.8 52.0 78.0

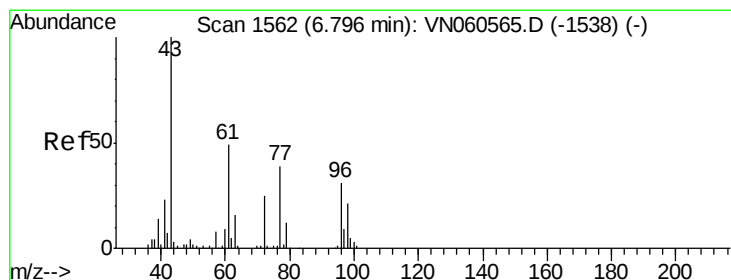
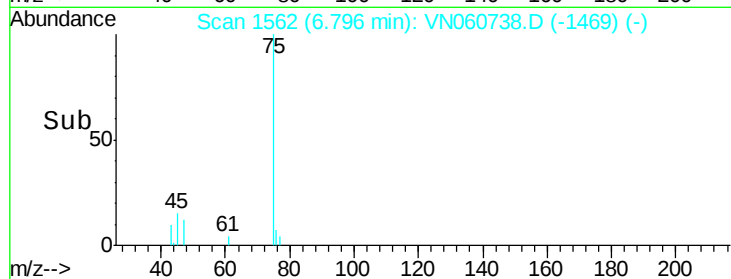
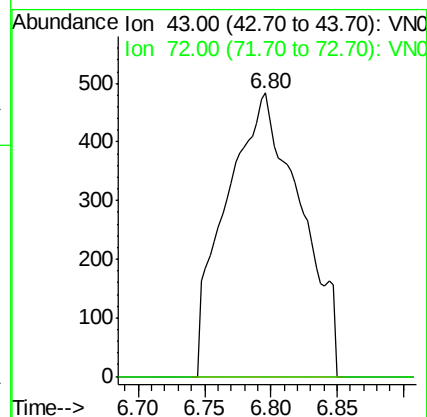
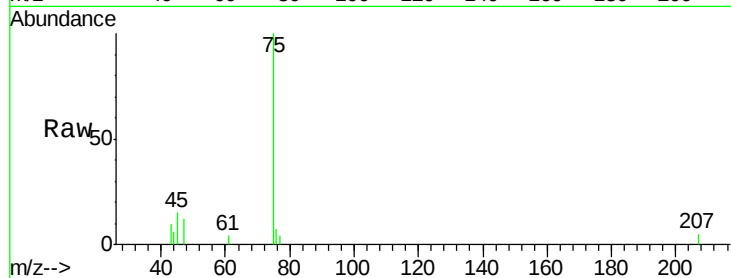




#25
 2-Butanone
 Concen: 1.257 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VN060738.D
 Acq: 27 Mar 2020 13:45

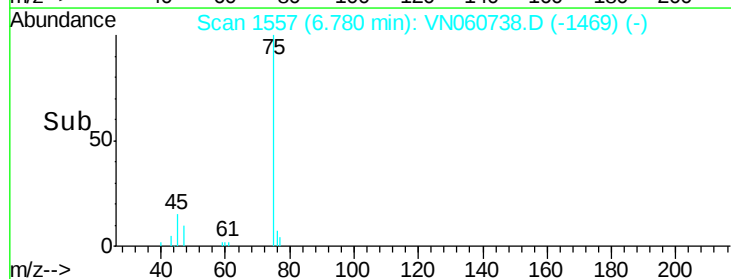
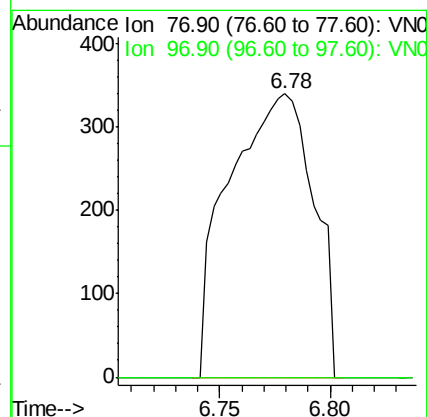
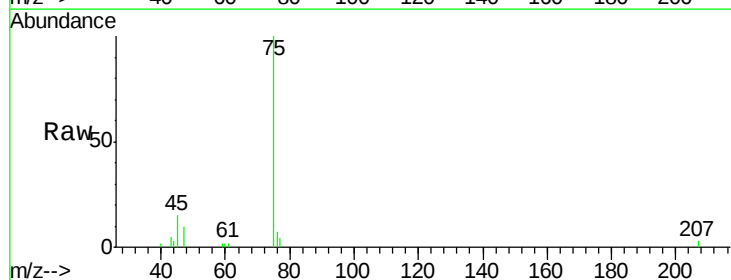
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#03

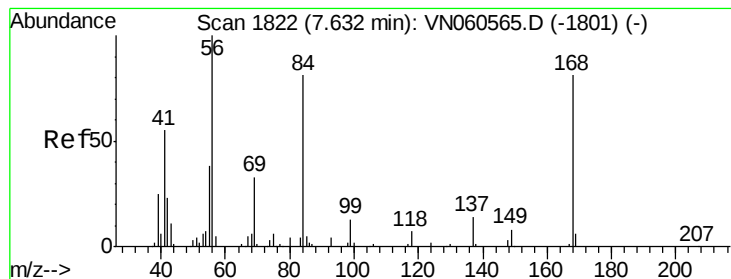
Tgt Ion: 43 Resp: 1890
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.4 30.6#



#26
 2,2-Dichloropropane
 Concen: 0.273 ug/l
 RT: 6.78 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: VN060738.D
 Acq: 27 Mar 2020 13:45

Tgt Ion: 77 Resp: 899
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.1#





#31

Cyclohexane

Concen: 0.993 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#03

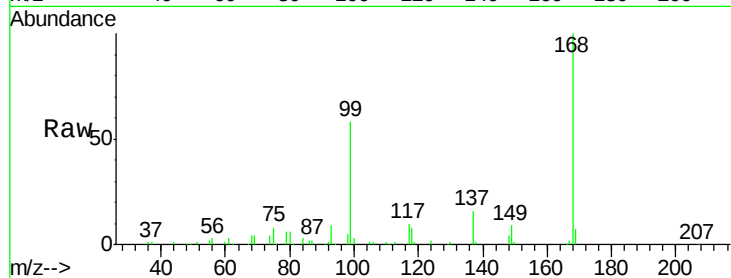
Tgt Ion: 56 Resp: 4194

Ion Ratio Lower Upper

56 100

69 146.2 26.6 40.0#

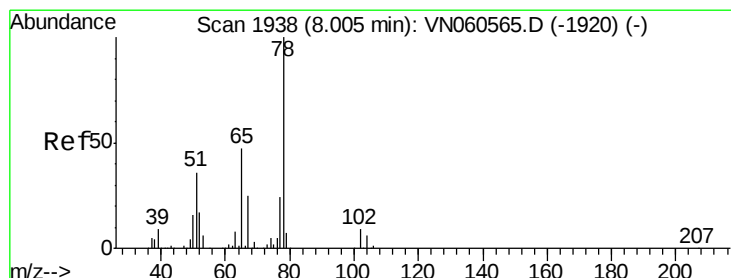
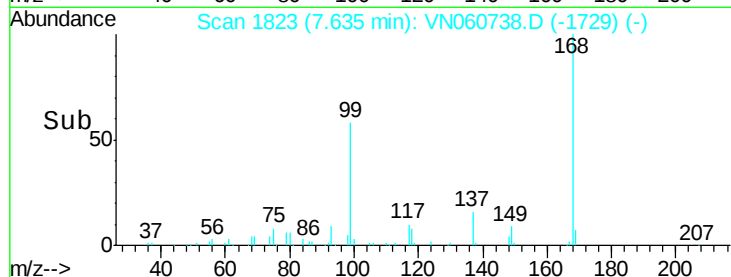
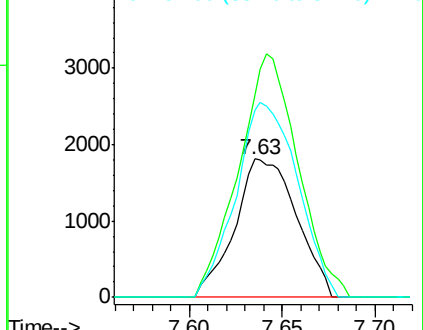
84 135.4 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 46.953 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060738.D

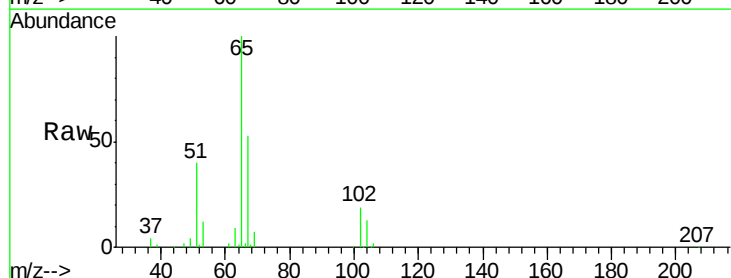
Acq: 27 Mar 2020 13:45

Tgt Ion: 65 Resp: 123175

Ion Ratio Lower Upper

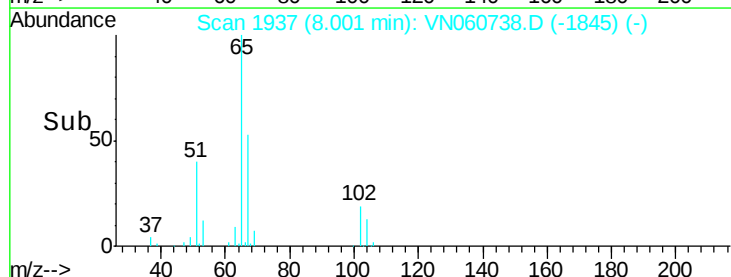
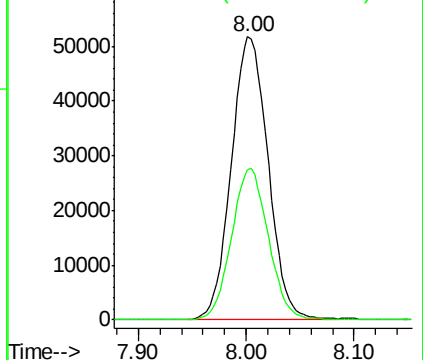
65 100

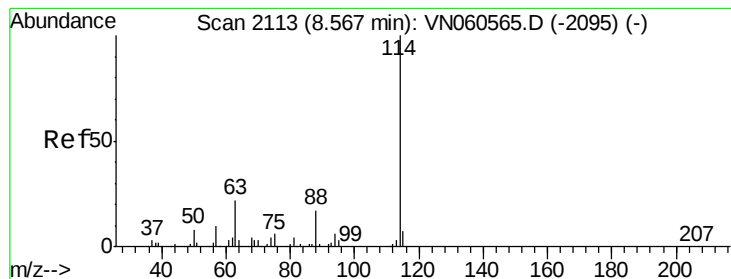
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#03

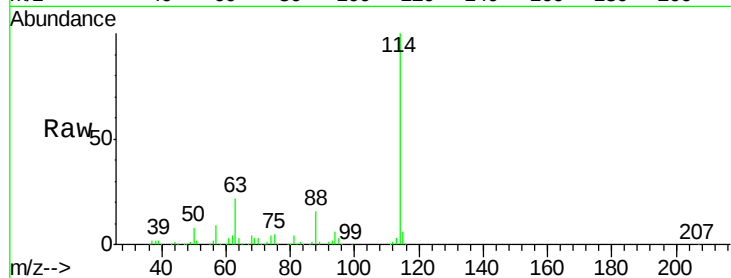
Tgt Ion:114 Resp: 317966

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

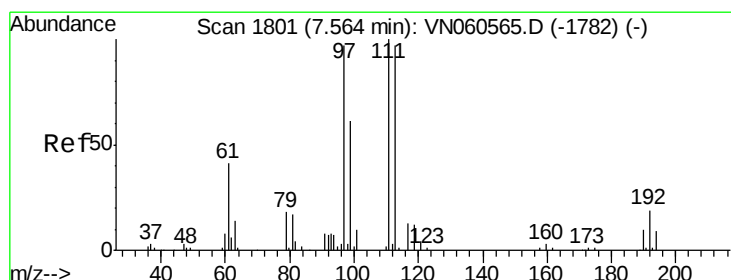
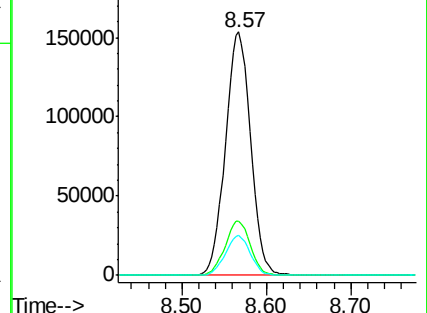
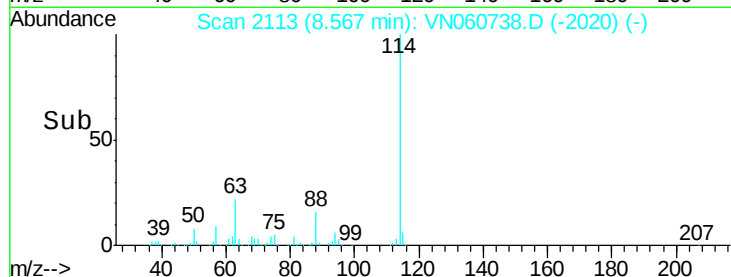
88 16.3 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.772 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

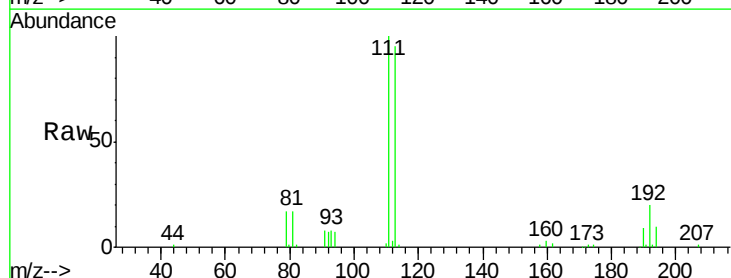
Tgt Ion:113 Resp: 93771

Ion Ratio Lower Upper

113 100

111 103.5 82.9 124.3

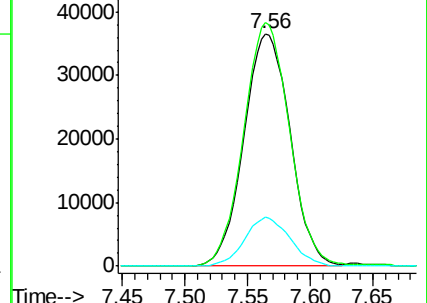
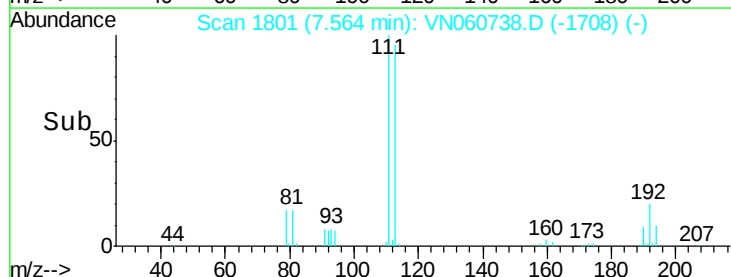
192 20.4 15.8 23.8

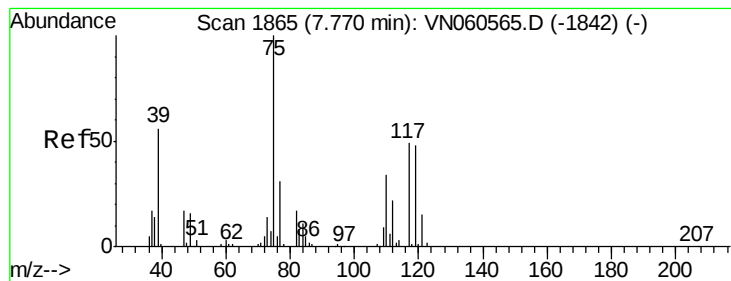


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.781 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

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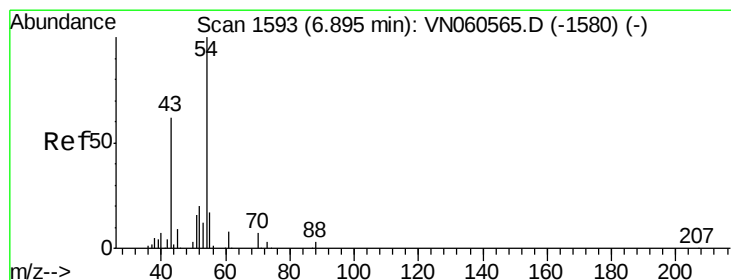
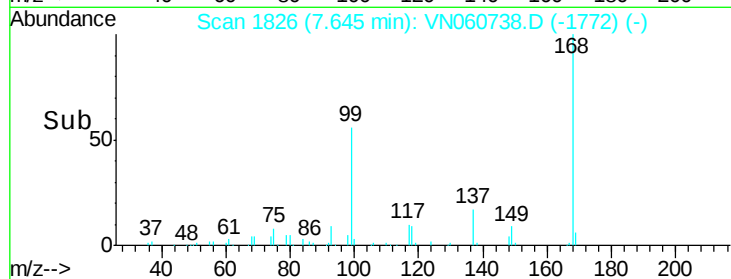
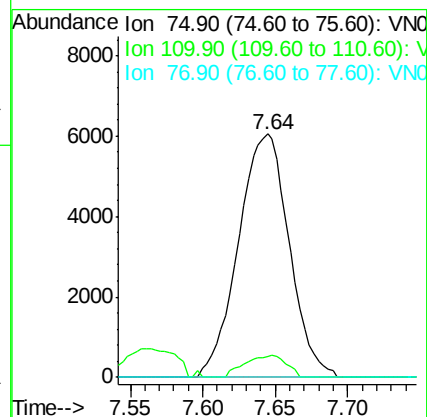
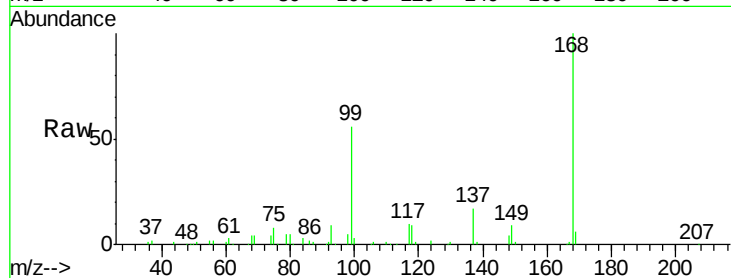
Tgt Ion: 75 Resp: 14721

Ion Ratio Lower Upper

75 100

110 7.5 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 0.568 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.10 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

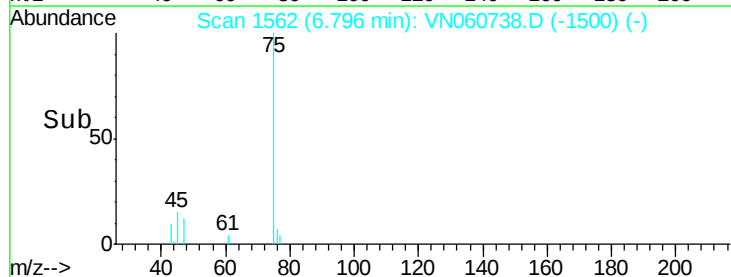
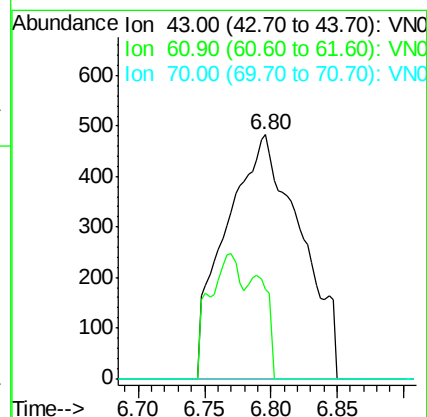
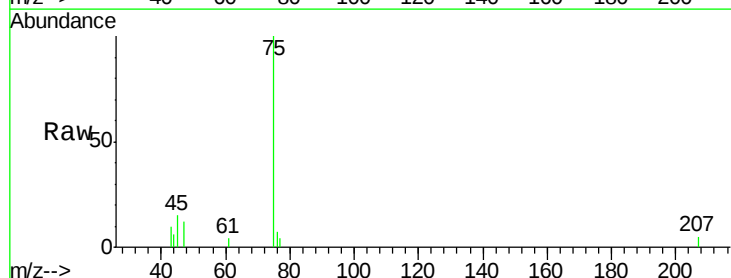
Tgt Ion: 43 Resp: 1890

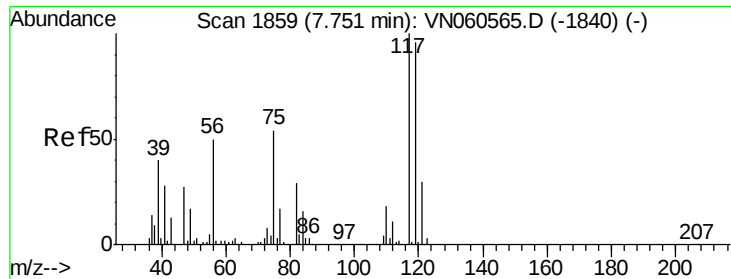
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#

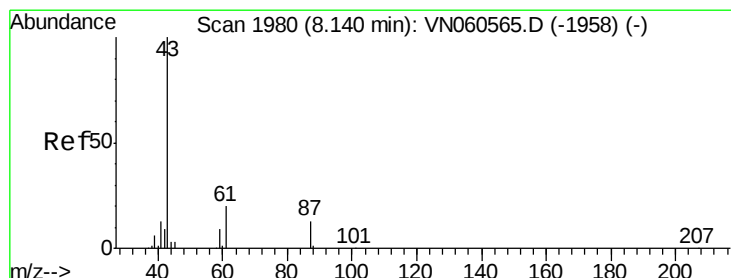
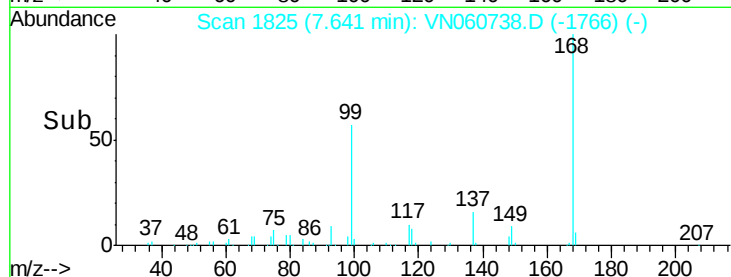
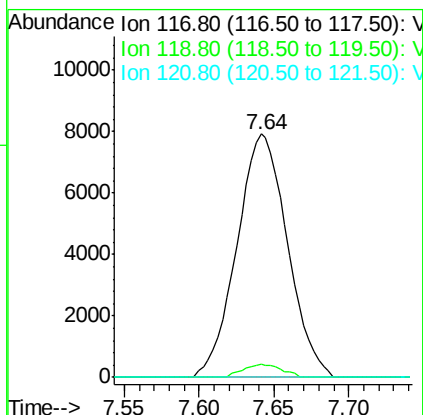
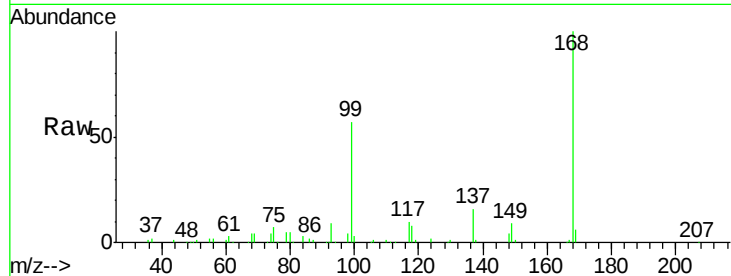




#38
Carbon Tetrachloride
Concen: 6.739 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060738.D
Acq: 27 Mar 2020 13:45

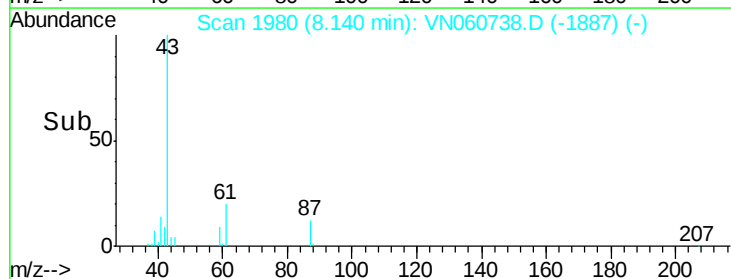
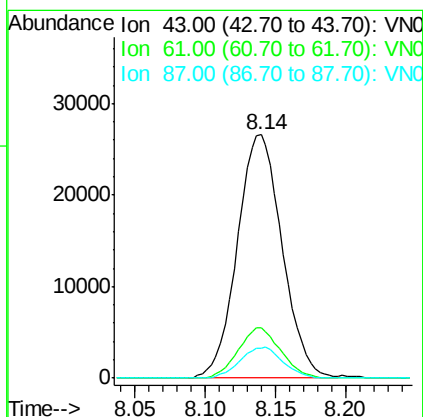
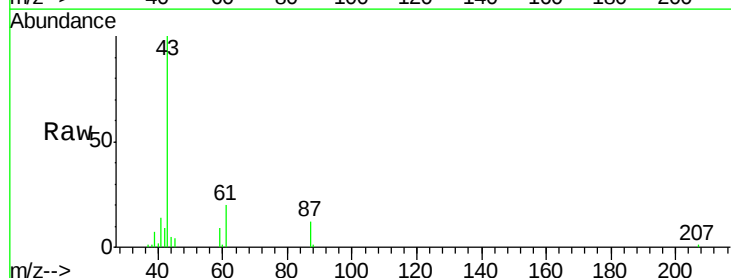
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MSVOA_N
ClientSampleId :
PB127814ZHE#03

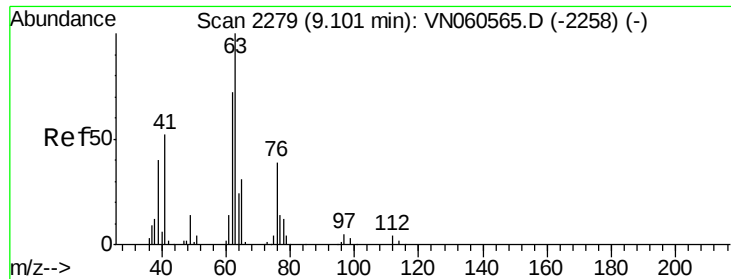
Tgt Ion:117 Resp: 18596
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.2#
121 0.0 23.7 35.5#



#43
Isopropyl Acetate
Concen: 10.770 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060738.D
Acq: 27 Mar 2020 13:45

Tgt Ion: 43 Resp: 59091
Ion Ratio Lower Upper
43 100
61 19.5 20.7 31.1#
87 12.0 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.451 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

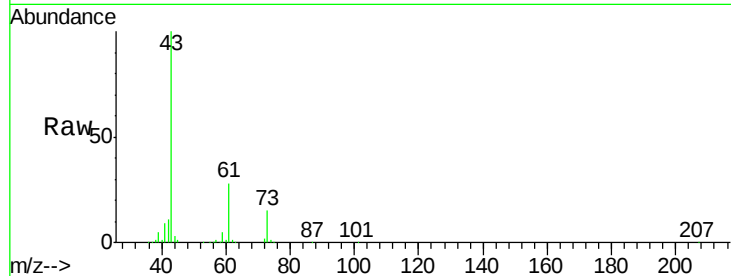
PB127814ZHE#03

Tgt Ion: 63 Resp: 1107

Ion Ratio Lower Upper

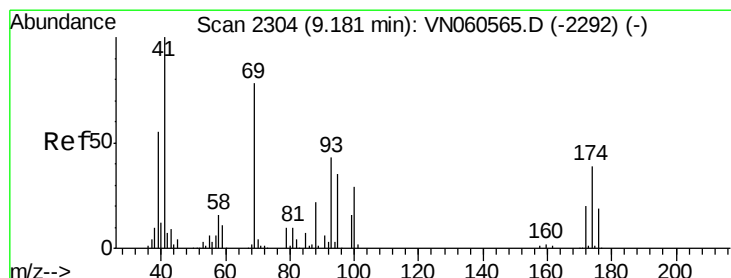
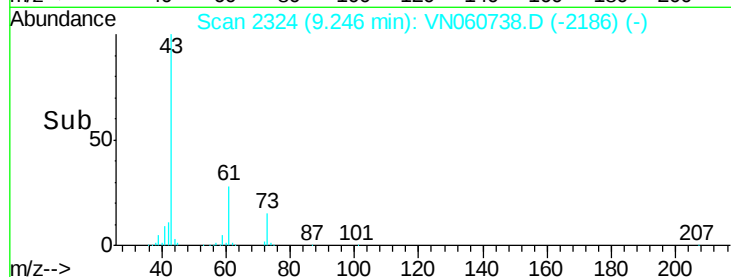
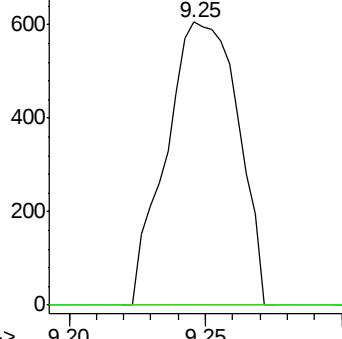
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.216 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

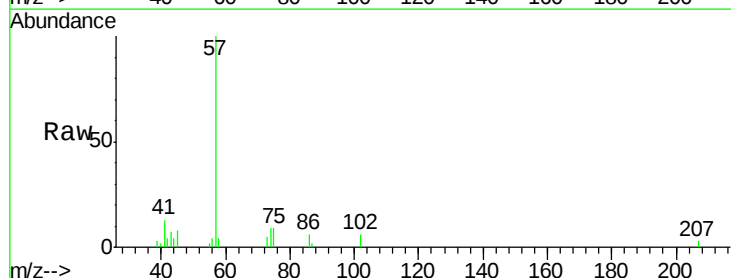
Tgt Ion: 41 Resp: 2970

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

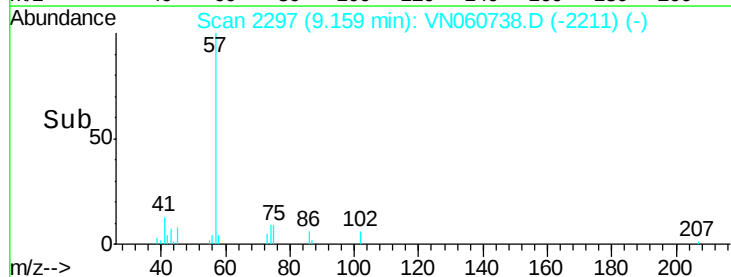
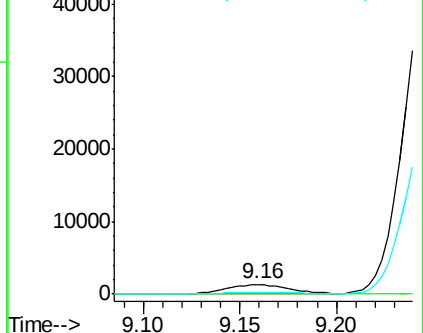
39 0.0 44.0 66.0#

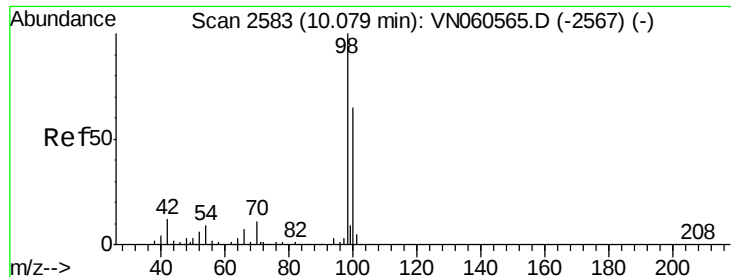


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.817 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

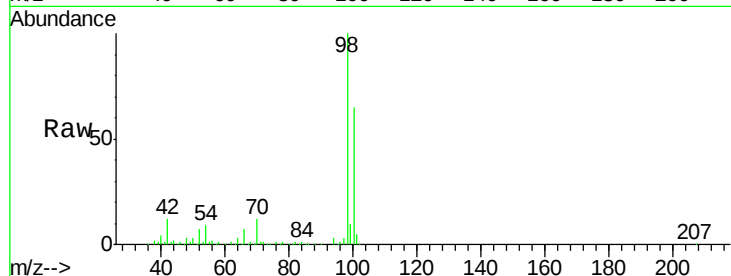
PB127814ZHE#03

Tgt Ion: 98 Resp: 391222

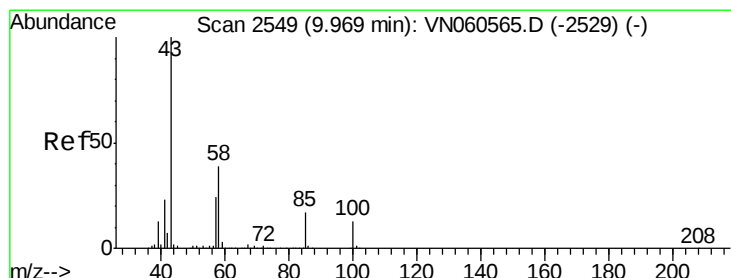
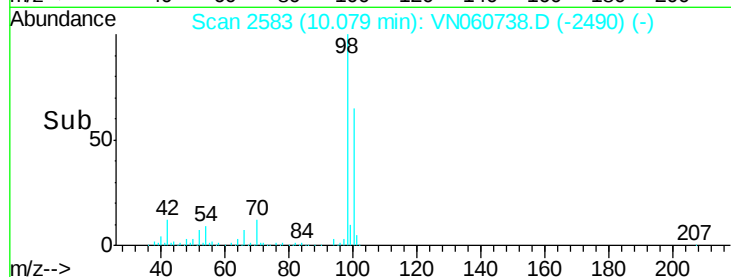
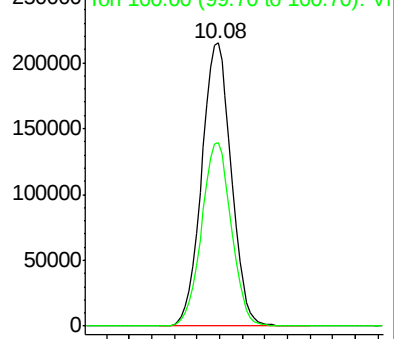
Ion Ratio Lower Upper

98 100

100 64.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060738.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.517 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060738.D

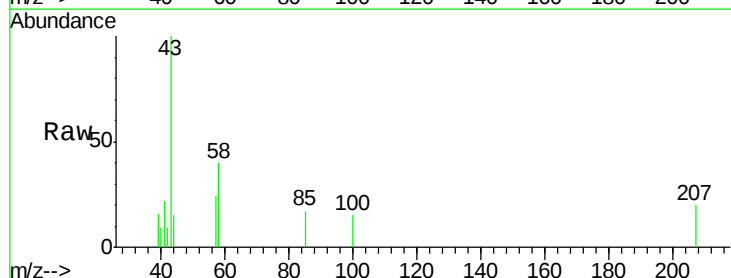
Acq: 27 Mar 2020 13:45

Tgt Ion: 43 Resp: 4737

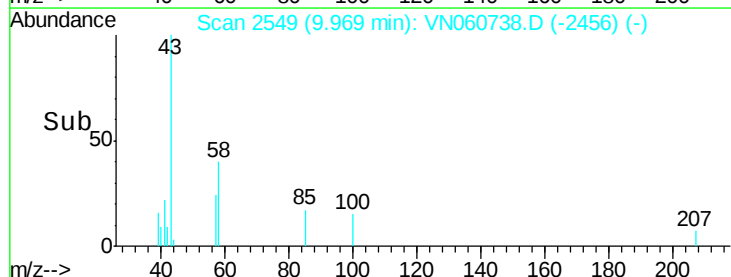
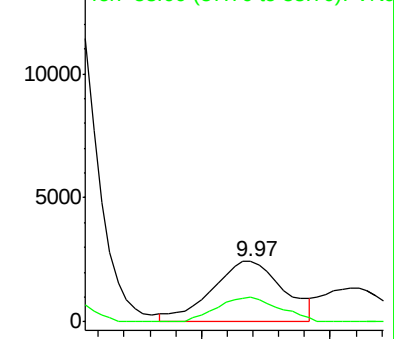
Ion Ratio Lower Upper

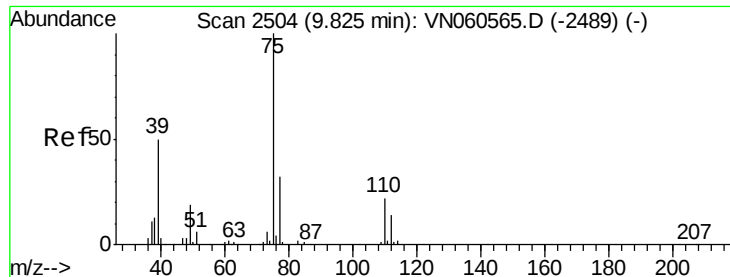
43 100

58 35.2 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060738.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.466 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#03

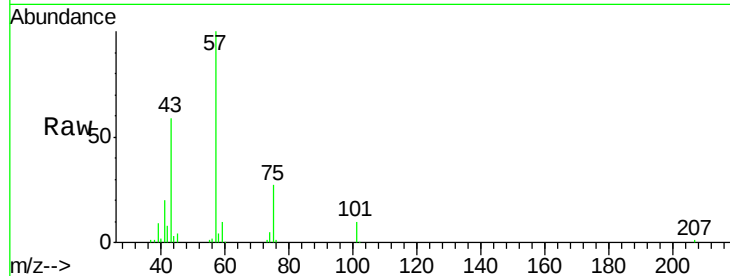
Tgt Ion: 75 Resp: 25104

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

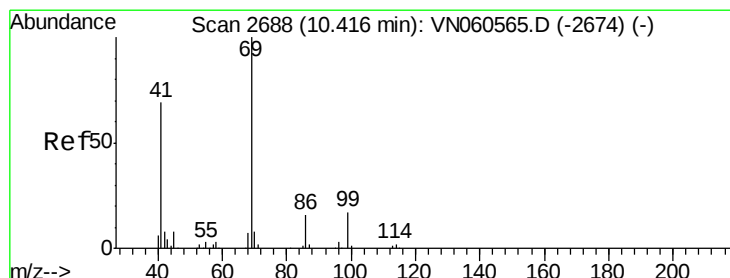
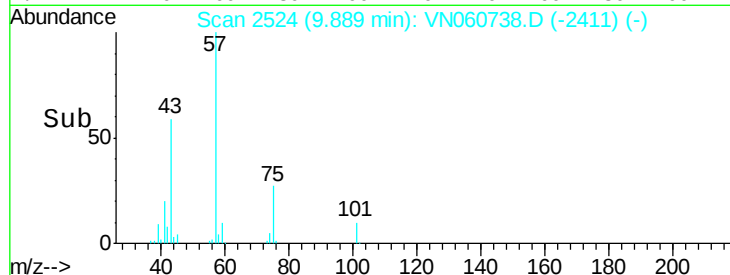
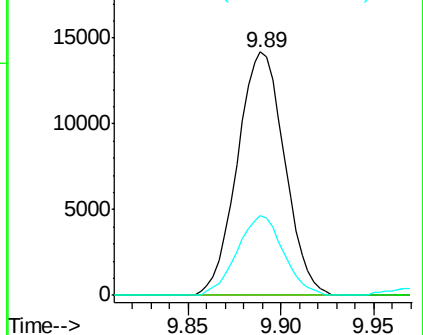
39 32.9 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.202 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.12 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

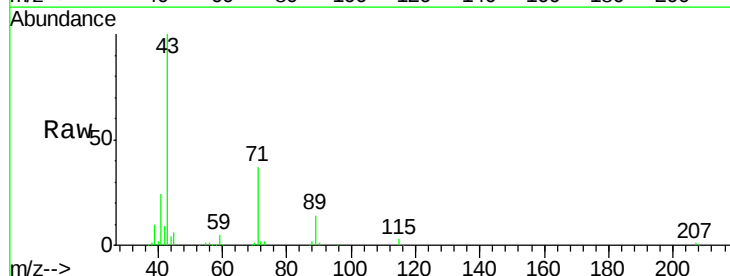
Tgt Ion: 69 Resp: 679

Ion Ratio Lower Upper

69 100

41 7688.4 55.4 83.2#

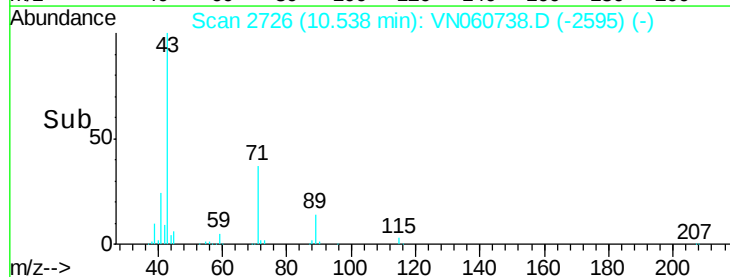
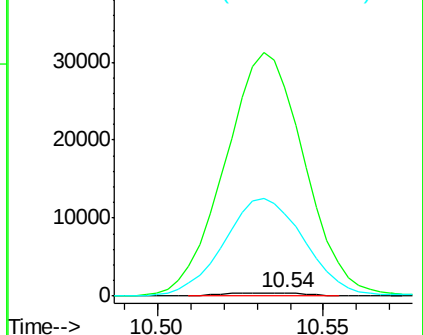
39 3181.4 29.4 44.0#

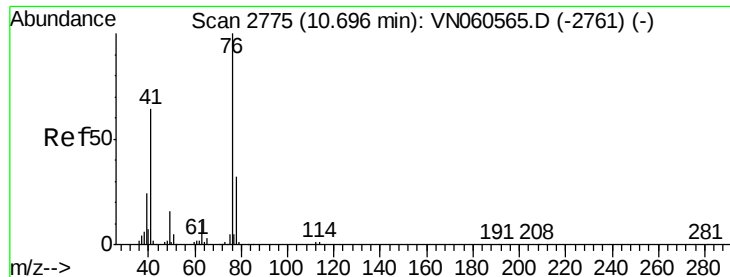


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

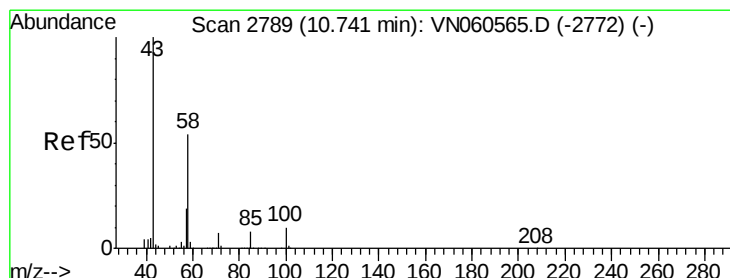
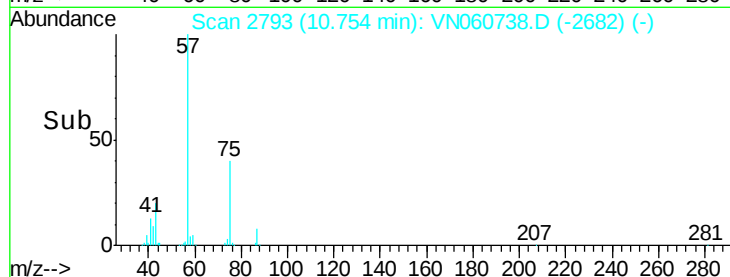
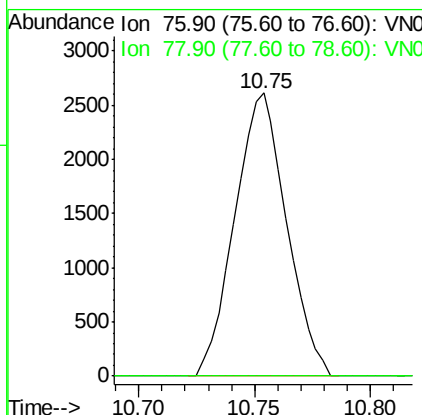
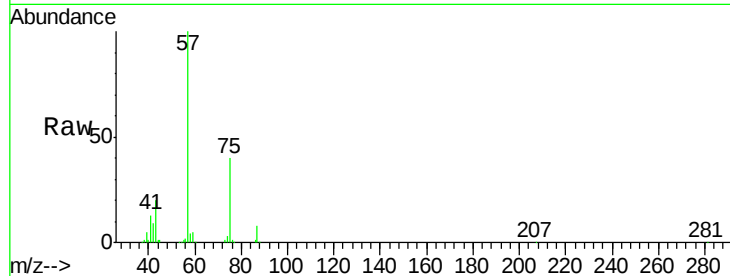




#57
 1,3-Dichloropropane
 Concen: 1.080 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060738.D
 Acq: 27 Mar 2020 13:45

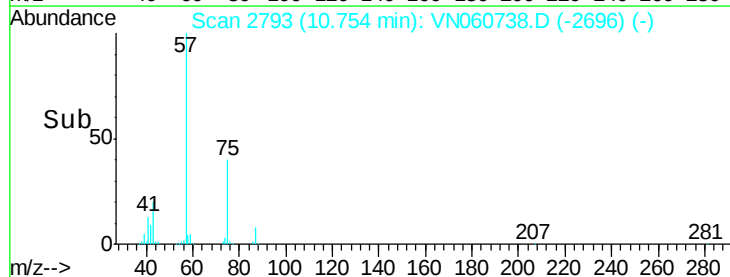
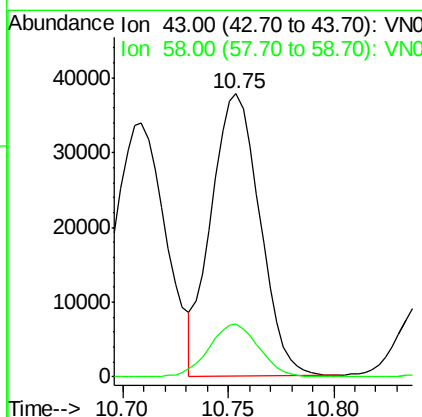
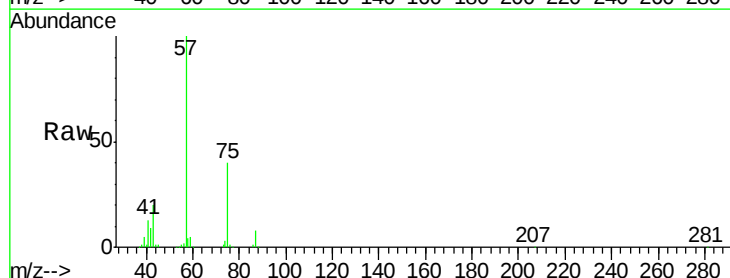
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#03

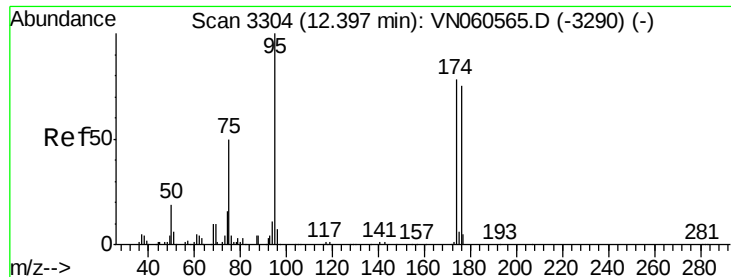
Tgt Ion: 76 Resp: 4049
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 26.823 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060738.D
 Acq: 27 Mar 2020 13:45

Tgt Ion: 43 Resp: 60326
 Ion Ratio Lower Upper
 43 100
 58 19.2 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.185 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#03

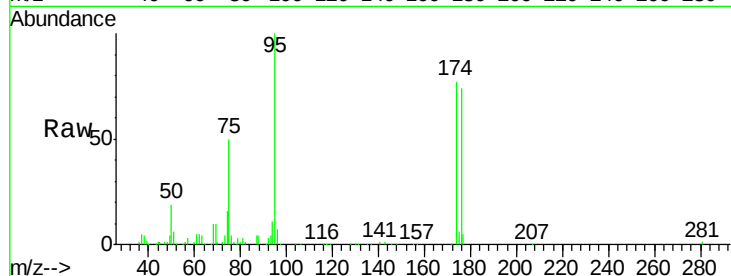
Tgt Ion: 95 Resp: 147316

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

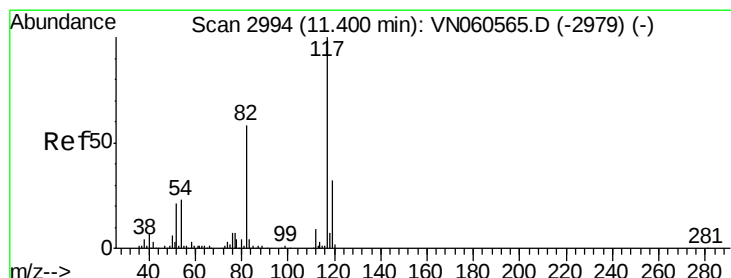
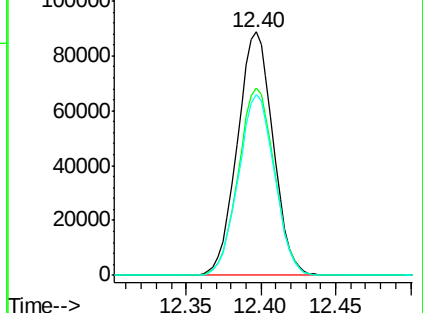
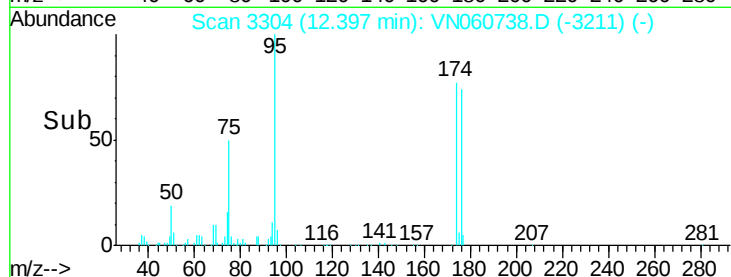
176 75.2 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060738.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060738.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060738.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

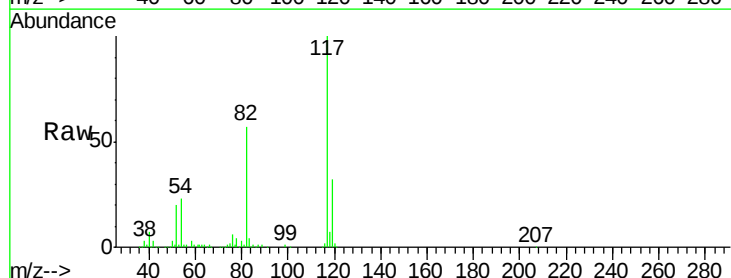
Tgt Ion: 117 Resp: 299755

Ion Ratio Lower Upper

117 100

82 57.3 46.7 70.1

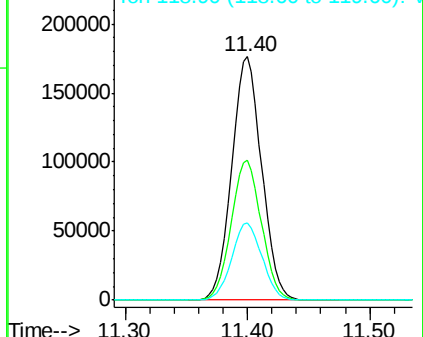
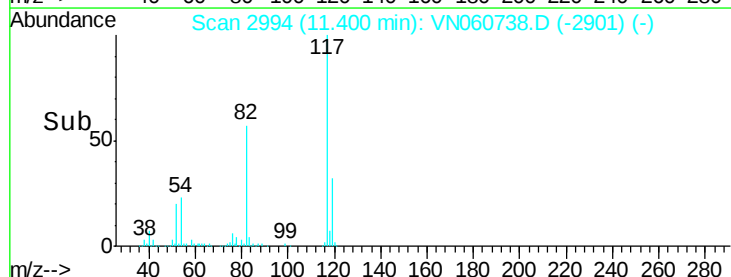
119 31.7 25.5 38.3

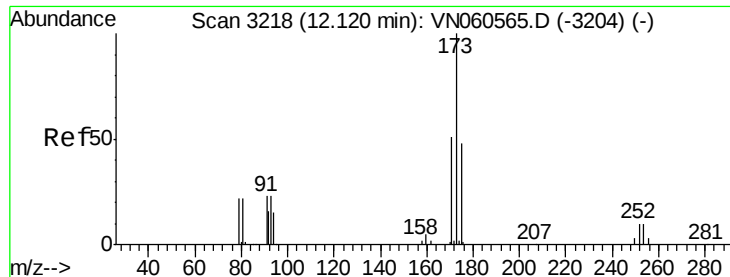


Abundance Ion 116.90 (116.60 to 117.60): VN060738.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060738.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060738.D (-2901) (-)





#71

Bromoform

Concen: 1.837 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#03

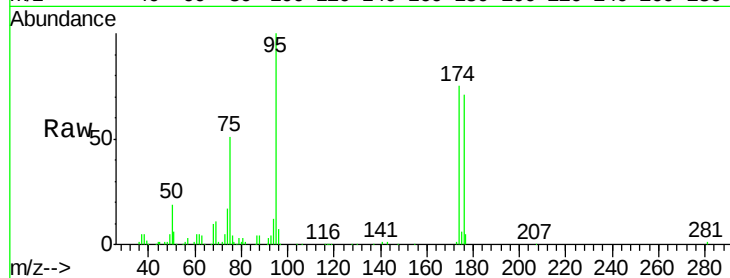
Tgt Ion:173 Resp: 289

Ion Ratio Lower Upper

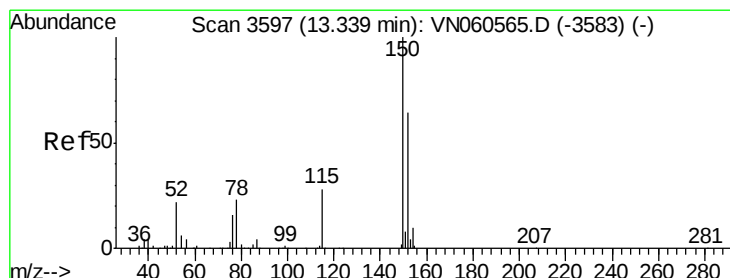
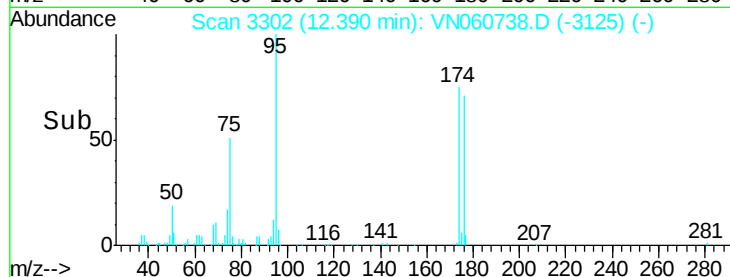
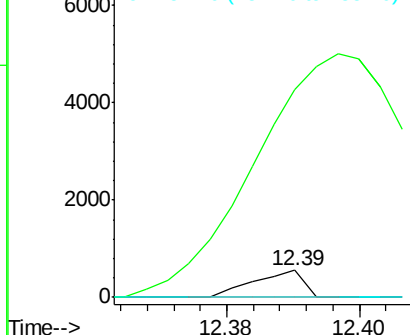
173 100

175 2488.6 24.1 72.4#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

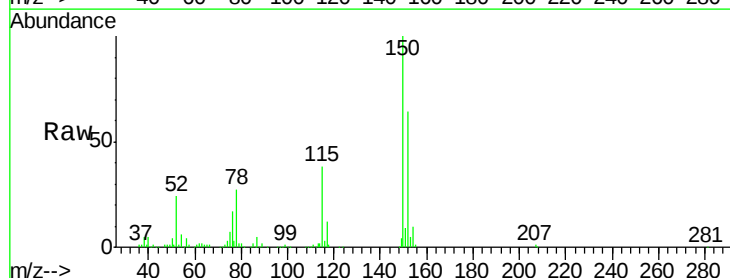
Tgt Ion:152 Resp: 136745

Ion Ratio Lower Upper

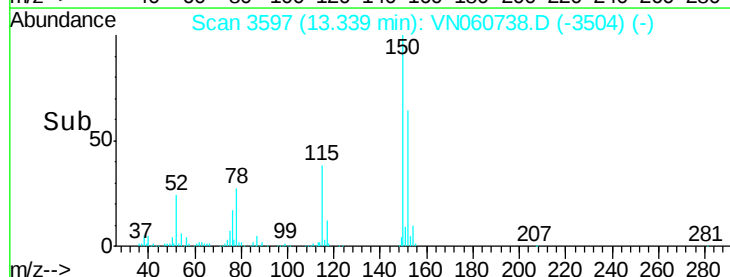
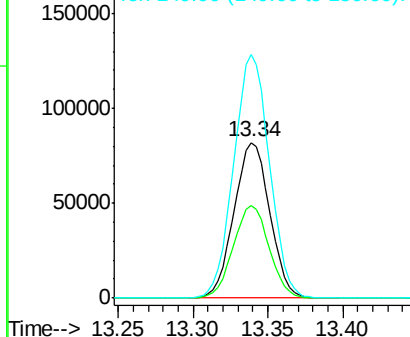
152 100

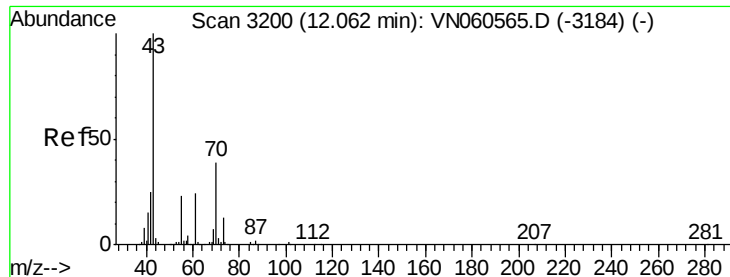
115 59.5 30.2 90.6

150 156.3 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.587 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060738.D

Acq: 27 Mar 2020 13:45

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#03

Tgt Ion: 43 Resp: 2784

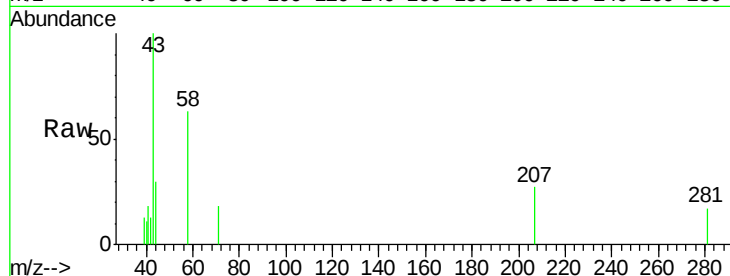
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

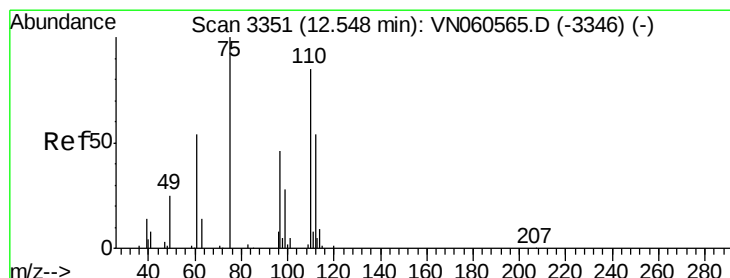
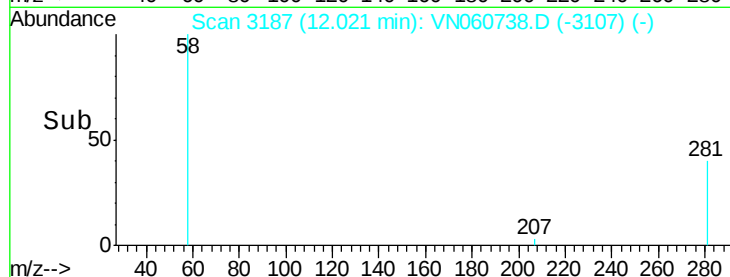
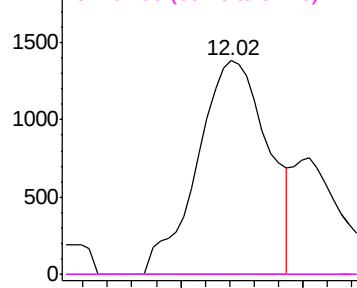


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.250 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060738.D

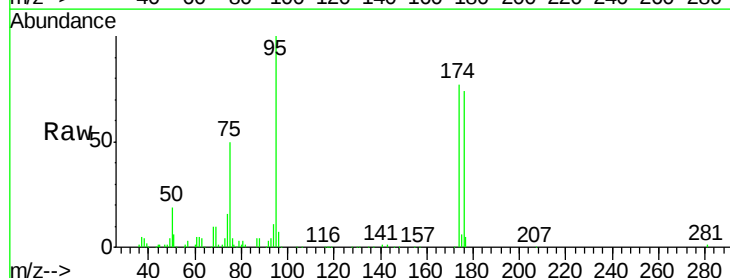
Acq: 27 Mar 2020 13:45

Tgt Ion: 75 Resp: 74505

Ion Ratio Lower Upper

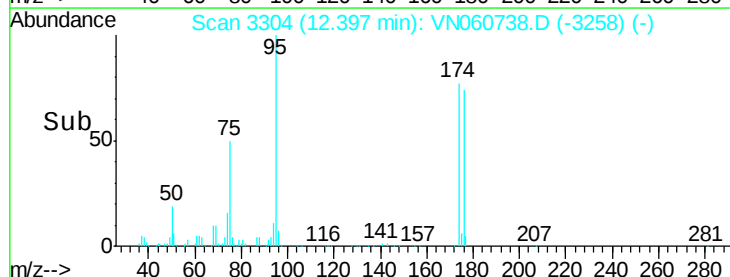
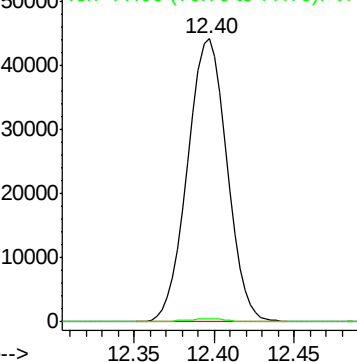
75 100

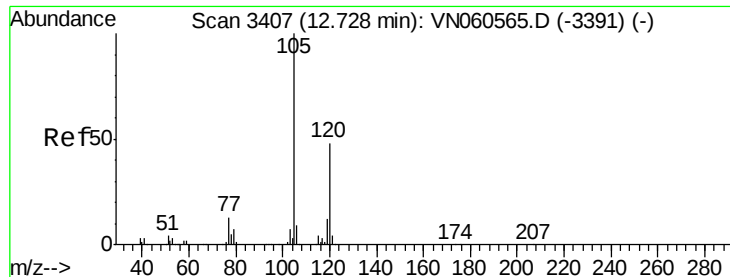
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

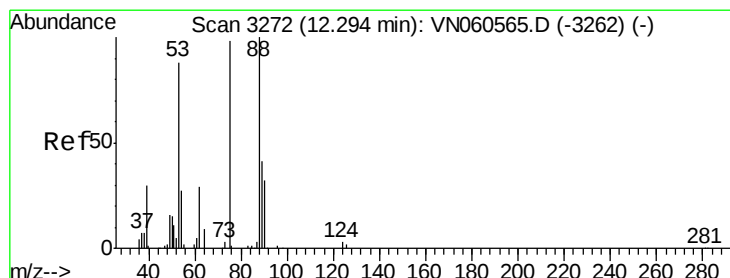
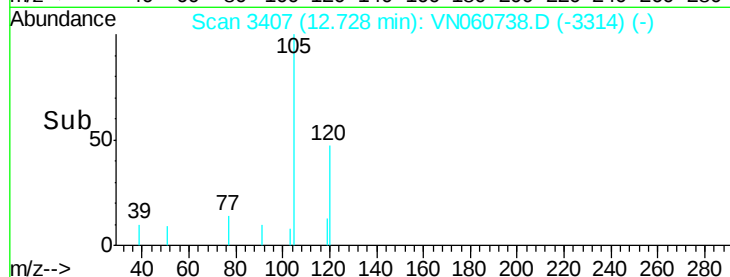
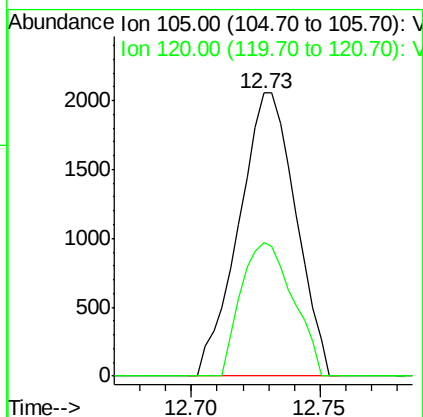
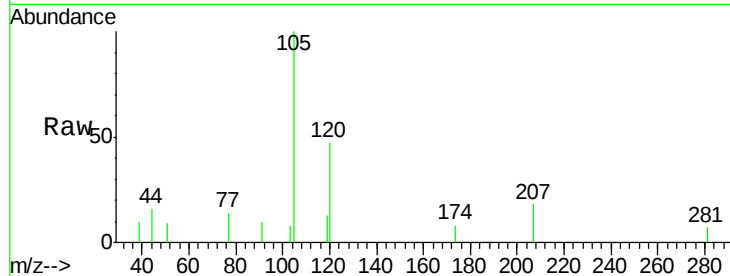




#80
 1,3,5-Trimethylbenzene
 Concen: 0.363 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN060738.D
 Acq: 27 Mar 2020 13:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#03

Tgt Ion: 105 Resp: 3164
 Ion Ratio Lower Upper
 105 100
 120 43.0 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.850 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060738.D
 Acq: 27 Mar 2020 13:45

Tgt Ion: 75 Resp: 74505
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

