

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080720\
 Data File : VN062786.D
 Acq On : 7 Aug 2020 18:05
 Operator : JC/MD
 Sample : PB130790ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130790ZHE#03

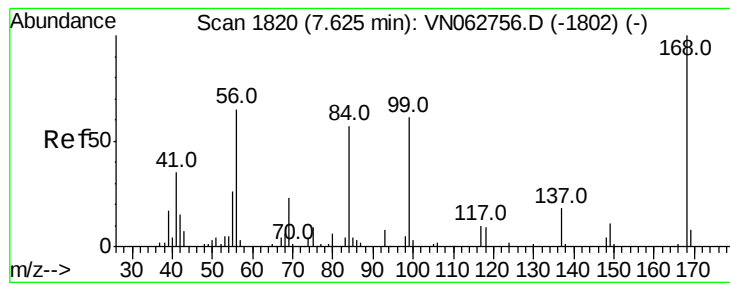
Quant Time: Aug 08 02:14:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	131034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	234210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	244688	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	86262	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	111914	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
35) Dibromofluoromethane	7.55	113	80554	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
50) Toluene-d8	10.06	98	312083	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.38	95	112710	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	821	0.968	ug/l	62
11) Tert butyl alcohol	4.72	59	145	0.408	ug/l #	72
16) Acetone	3.79	43	12327	15.744	ug/l	96
17) Carbon Disulfide	4.00	76	31	Below Cal	#	74
18) Methyl Acetate	4.29	43	3680	0.877	ug/l #	77
20) Methylene Chloride	4.50	84	12780	8.285	ug/l #	95
25) 2-Butanone	6.80	43	2535	2.286	ug/l	93
29) Tetrahydrofuran	7.17	42	551	0.765	ug/l #	33
31) Cyclohexane	7.63	56	3235	1.231	ug/l #	15
36) 1,1-Dichloropropene	7.63	75	11007	4.827	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14054	5.211	ug/l #	15
43) Isopropyl Acetate	8.13	43	48978	12.326	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1010	0.548	ug/l #	45
48) Methyl methacrylate	9.15	41	3118	1.595	ug/l #	13
51) 4-Methyl-2-Pentanone	9.95	43	5924	2.304	ug/l	92
54) cis-1,3-Dichloropropene	9.88	75	20611	6.886	ug/l #	61
56) Ethyl methacrylate	10.51	69	793	0.294	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3793	1.244	ug/l #	43
59) 2-Hexanone	10.74	43	56002	29.202	ug/l #	53
71) Bromoform	12.38	173	754	0.449	ug/l #	1
74) N-amyl acetate	12.01	43	896	0.340	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	59508	25.580	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2487	0.441	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	59508	78.087	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

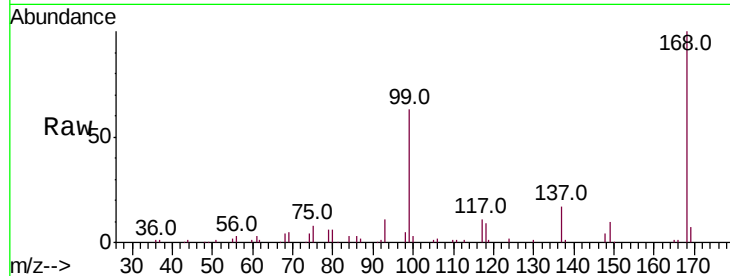
PB130790ZHE#03

Tot Ion:168 Resp: 131034

Ion Ratio Lower Upper

168 100

99 63.3 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): VN062756.D (-1802) (-)

Ion 98.90 (98.60 to 99.60): VN062756.D (-1802) (-)

7.63

60000

50000

40000

30000

20000

10000

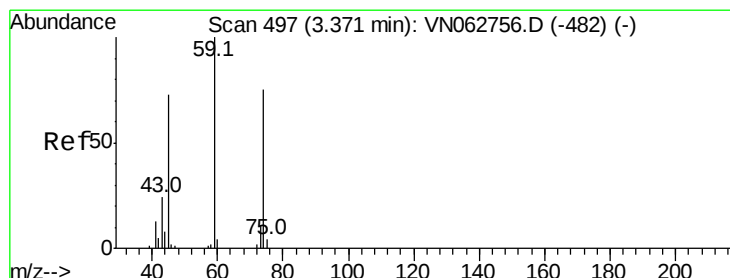
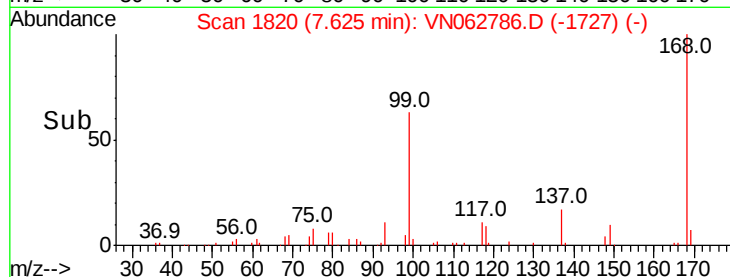
0

Time-->

7.50

7.60

7.70



#8

Diethyl Ether

Concen: 0.968 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.00 min

Lab File: VN062786.D

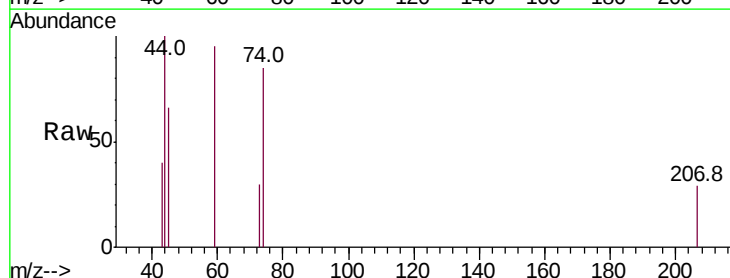
Acq: 7 Aug 2020 18:05

Tgt Ion: 74 Resp: 821

Ion Ratio Lower Upper

74 100

45 60.0 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VN062756.D (-482) (-)

Ion 45.00 (44.70 to 45.70): VN062756.D (-482) (-)

3.37

500

400

300

200

100

0

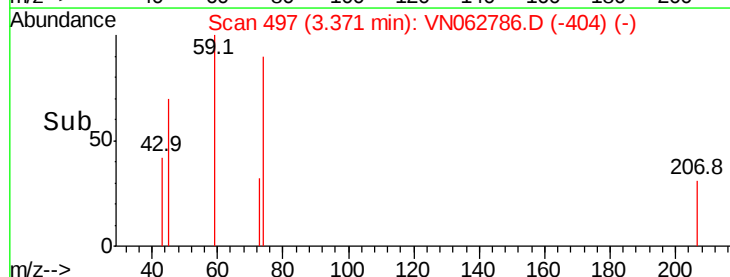
Time-->

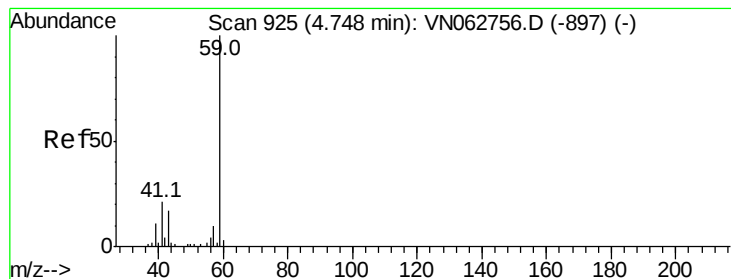
3.34

3.36

3.38

3.40



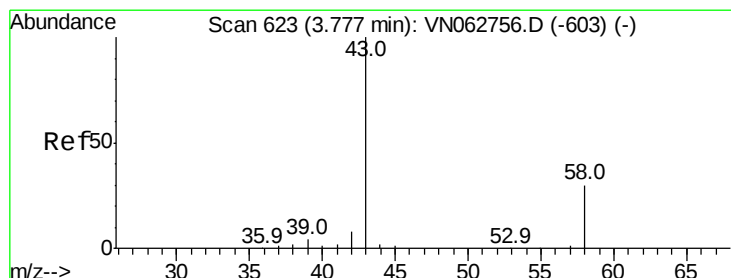
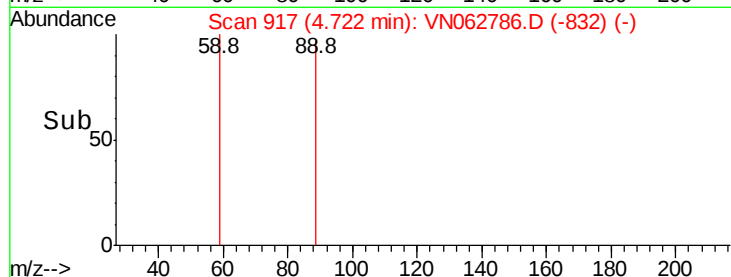
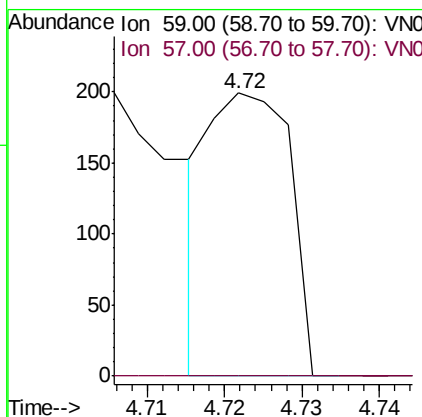
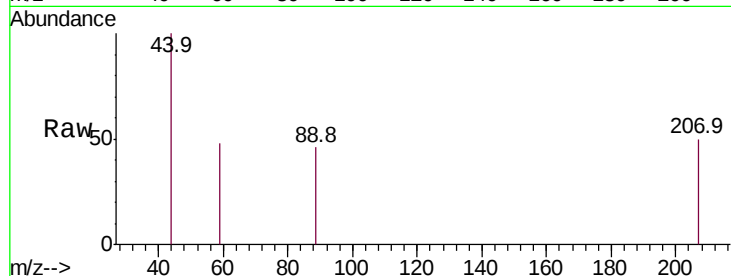


#11

Tert butyl alcohol
 Concen: 0.408 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.03 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130790ZHE#03

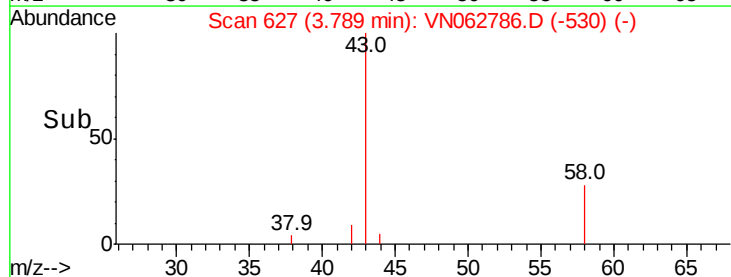
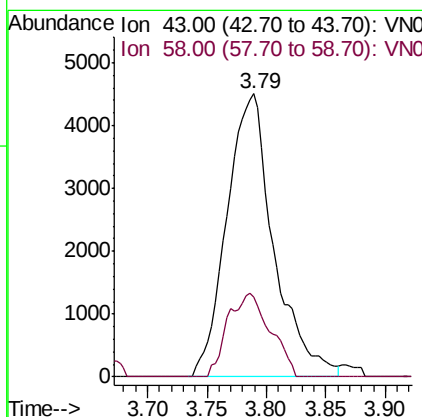
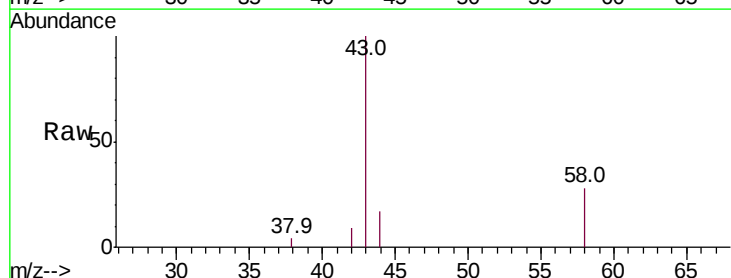
Tot Ion: 59 Resp: 145
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

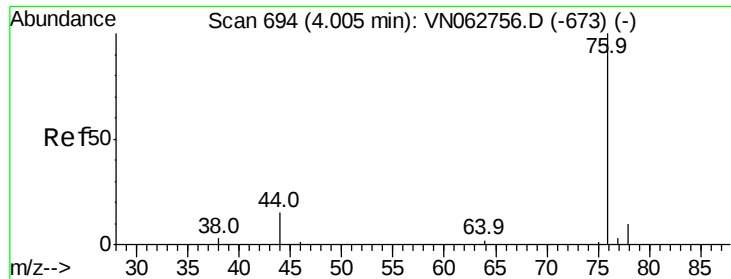


#16

Acetone
 Concen: 15.744 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. 0.01 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Tgt Ion: 43 Resp: 12327
 Ion Ratio Lower Upper
 43 100
 58 28.1 24.1 36.1

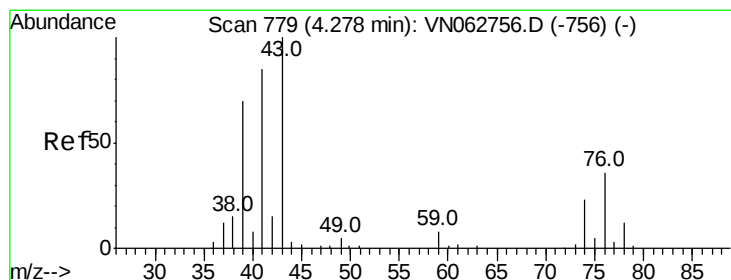
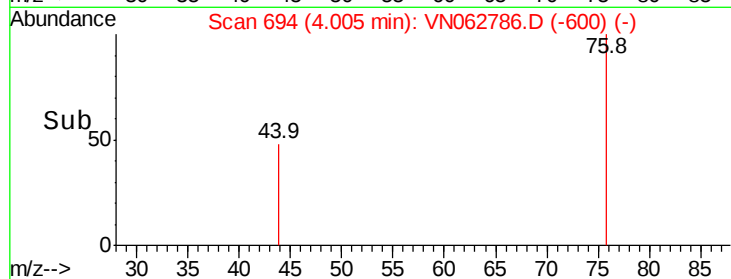
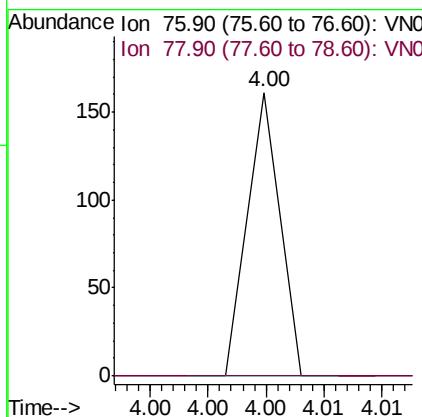
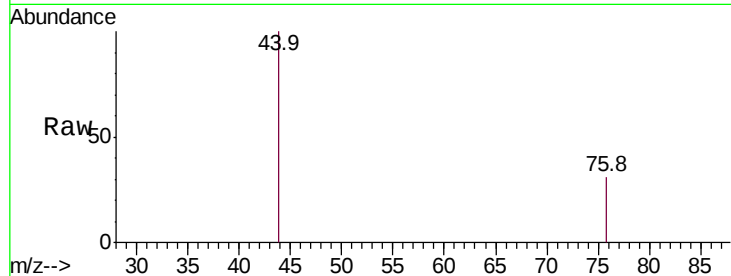




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.00 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

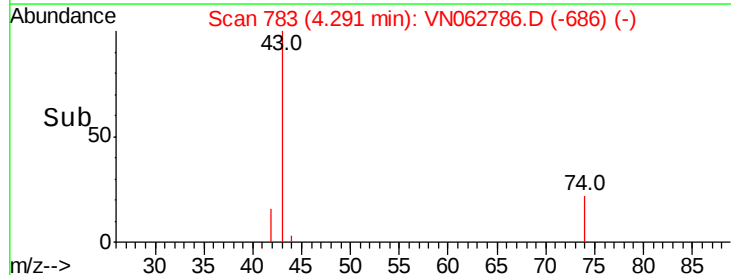
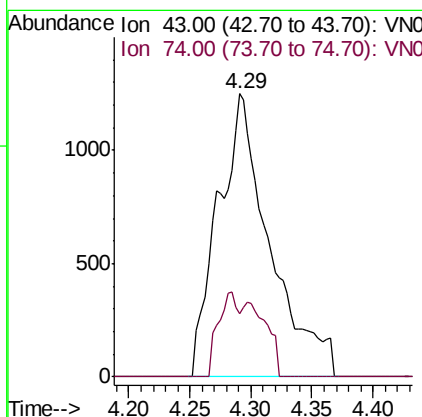
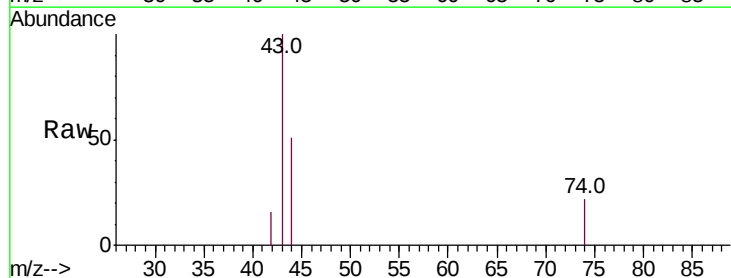
Instrument :
MSVOA_N
ClientSampleId :
PB130790ZHE#03

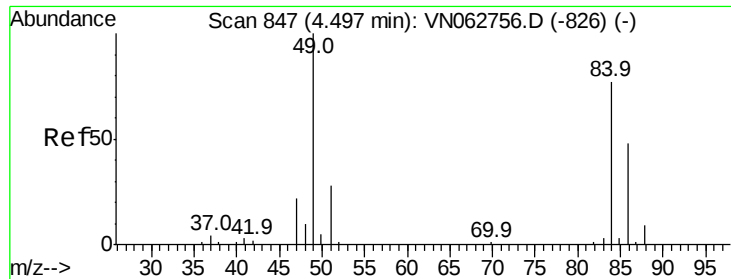
Tot Ion: 76 Resp: 31
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 0.877 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

Tgt Ion: 43 Resp: 3680
Ion Ratio Lower Upper
43 100
74 12.1 18.6 28.0#

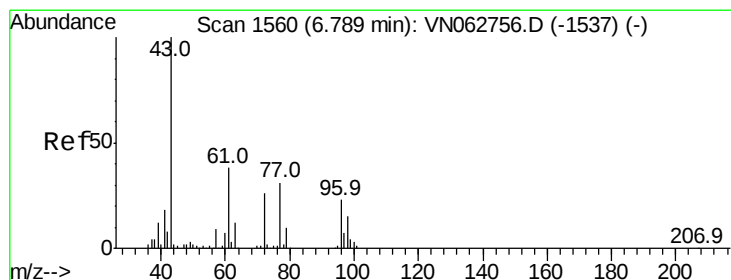
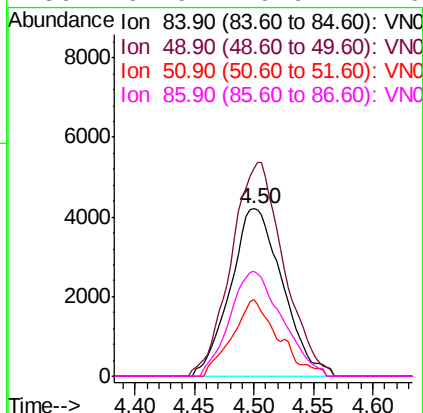
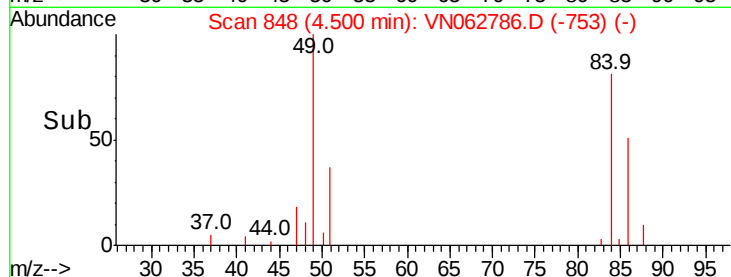
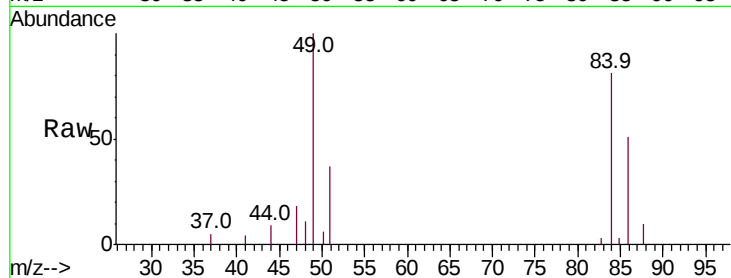




#20
Methvlene Chloride
Concen: 8.285 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

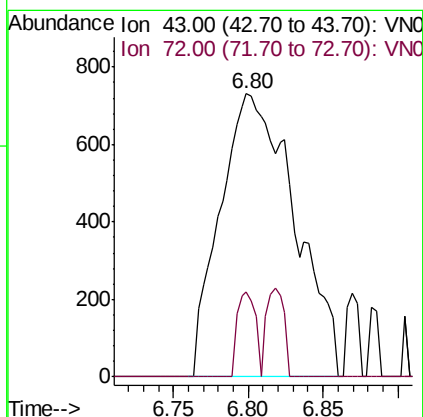
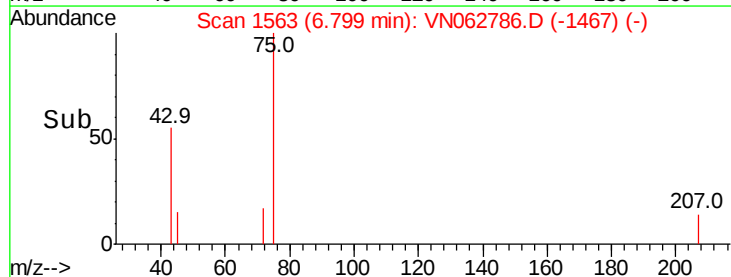
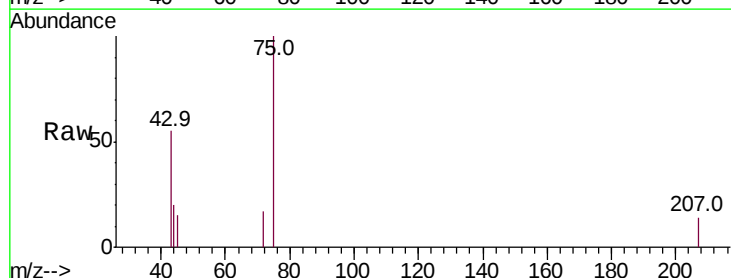
Instrument :
MSVOA_N
ClientSampleId :
PB130790ZHE#03

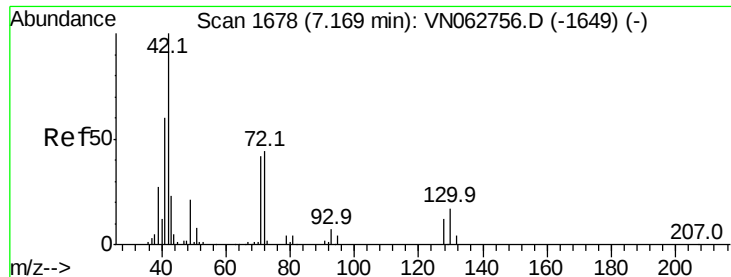
Tot Ion: 84 Resp: 12780
Ion Ratio Lower Upper
84 100
49 123.8 103.4 155.2
51 46.0 29.3 43.9#
86 62.9 49.9 74.9



#25
2-Butanone
Concen: 2.286 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

Tgt Ion: 43 Resp: 2535
Ion Ratio Lower Upper
43 100
72 30.1 21.1 31.7

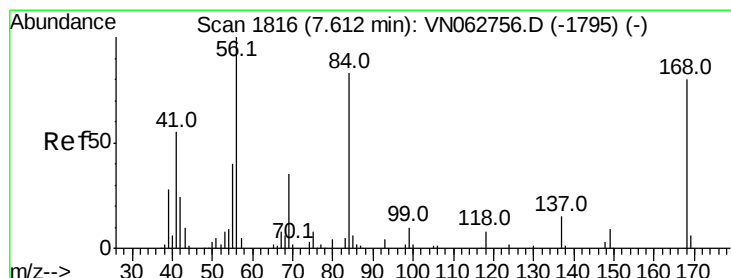
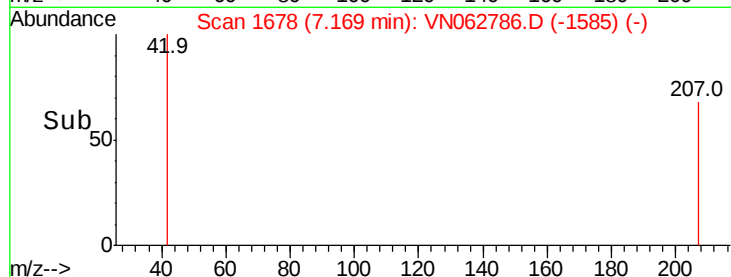
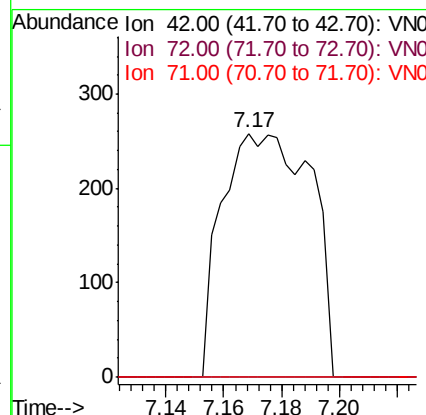
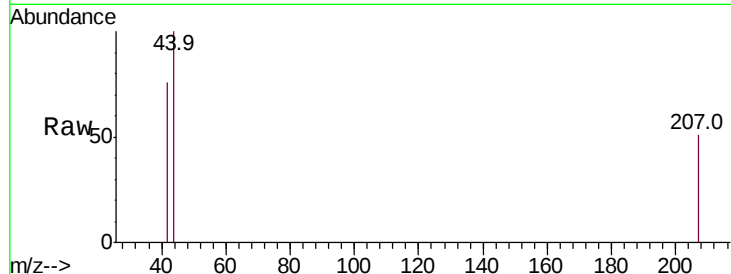




#29
Tetrahydrofuran
Concen: 0.765 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

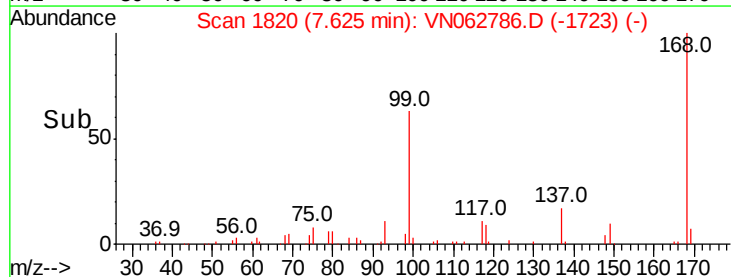
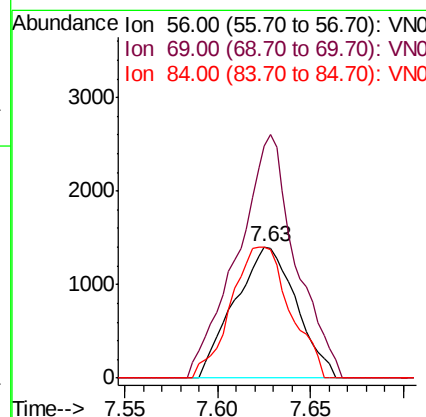
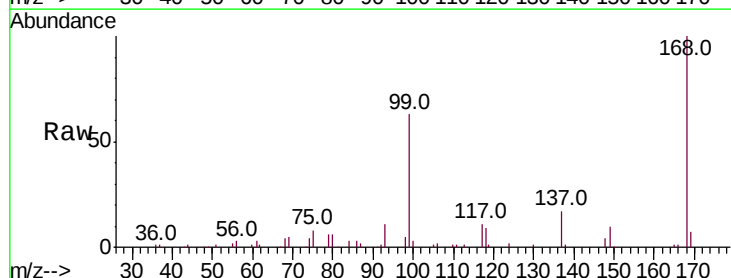
Instrument :
MSVOA_N
ClientSampleId :
PB130790ZHE#03

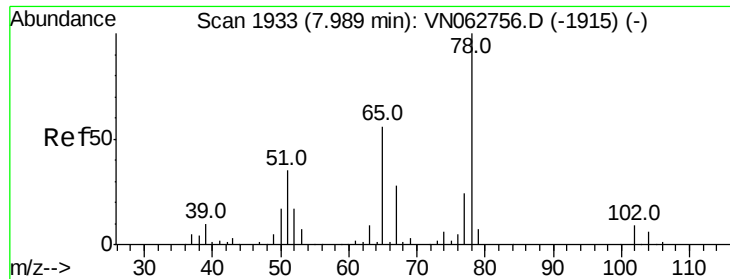
Tot Ion: 42 Resp: 551
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.4#
71 0.0 33.2 49.8#



#31
Cyclohexane
Concen: 1.231 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

Tgt Ion: 56 Resp: 3235
Ion Ratio Lower Upper
56 100
69 177.0 28.1 42.1#
84 99.6 66.8 100.2

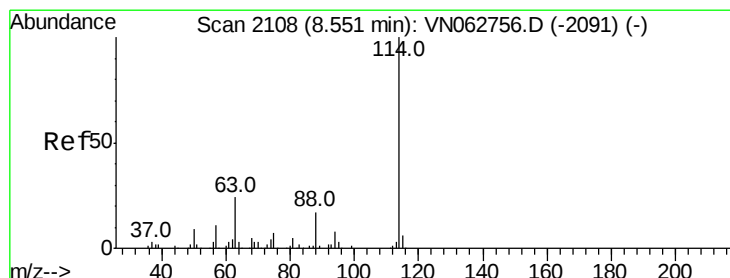
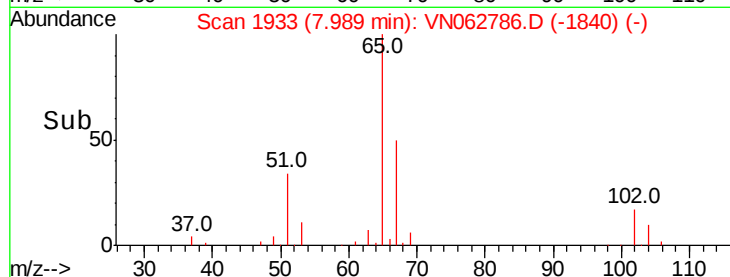
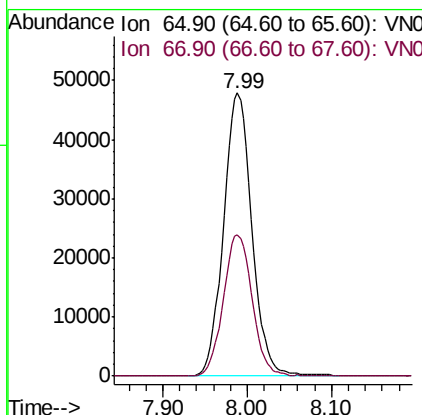
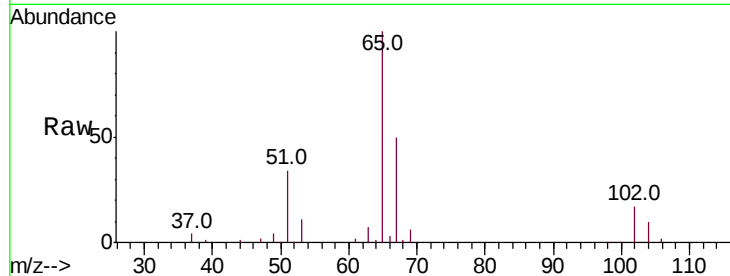




#33
 1,2-Dichloroethane-d4
 Concen: 51.647 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

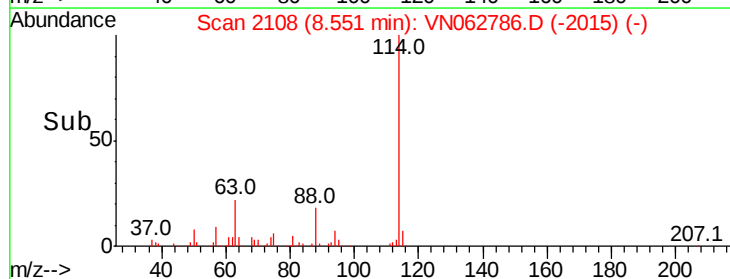
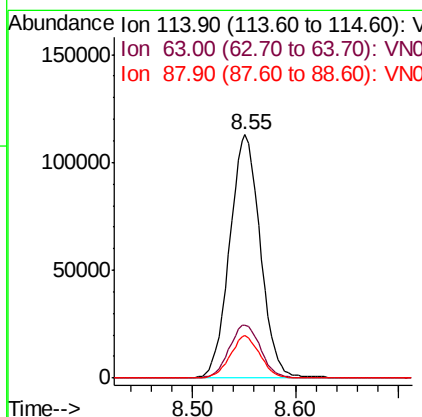
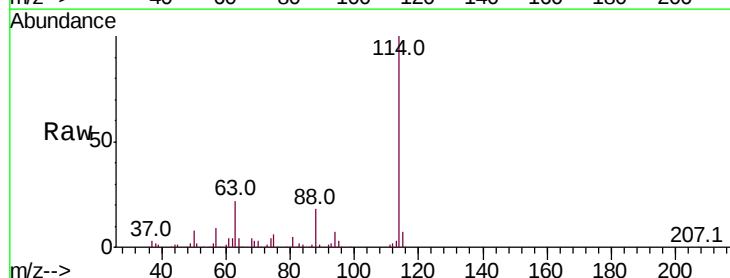
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130790ZHE#03

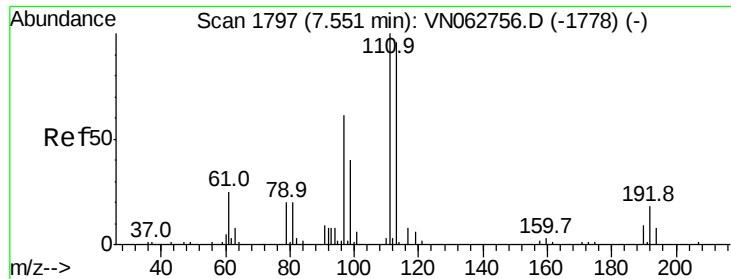
Tot Ion: 65 Resp: 111914
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Tgt Ion:114 Resp: 234210
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 47.6
 88 17.5 0.0 34.4

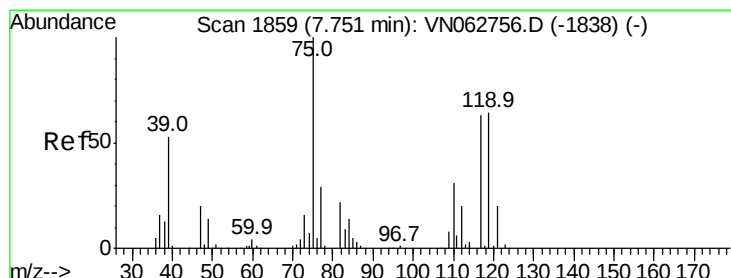
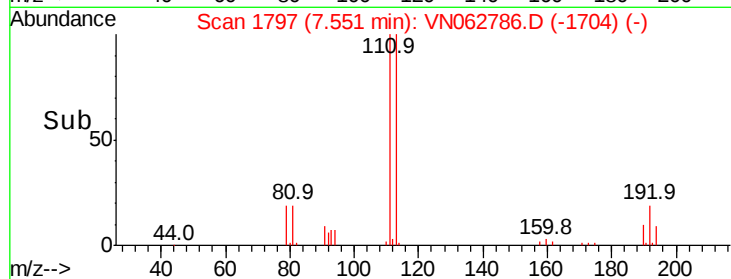
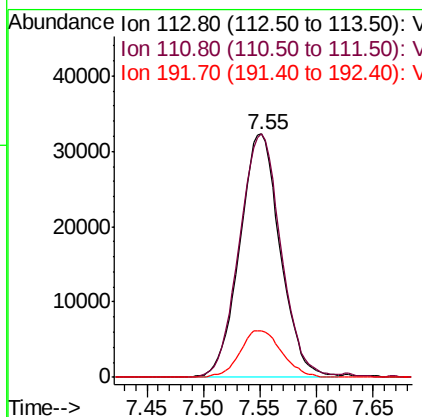
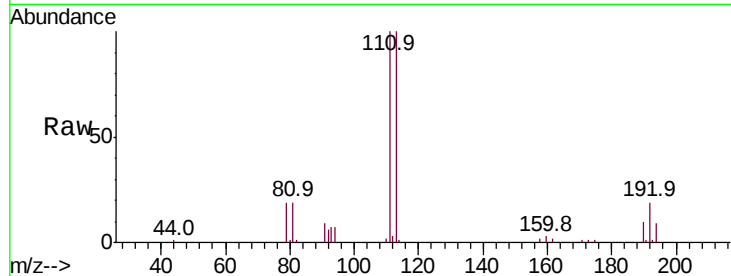




#35
 Dibromofluoromethane
 Concen: 50.279 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

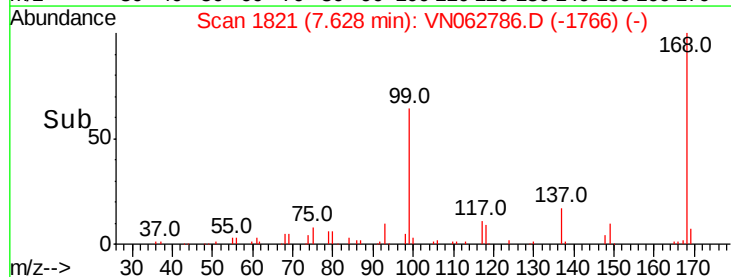
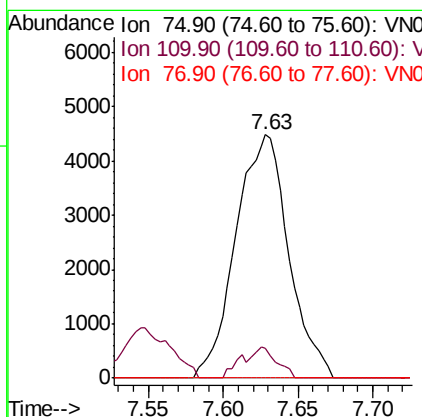
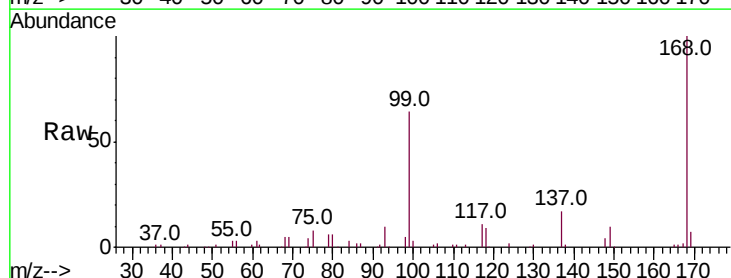
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130790ZHE#03

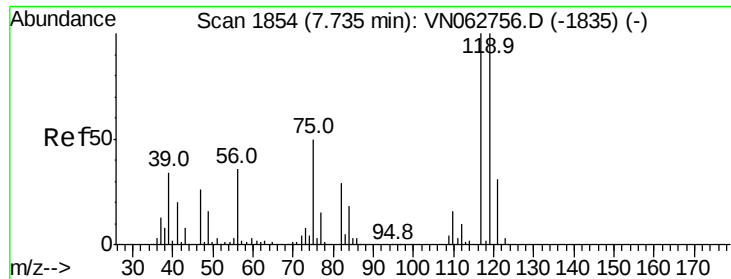
Tot Ion:113 Resp: 80554
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.8 122.6
 192 19.8 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Tgt Ion: 75 Resp: 11007
 Ion Ratio Lower Upper
 75 100
 110 5.8 15.6 46.7#
 77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.211 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

PB130790ZHE#03

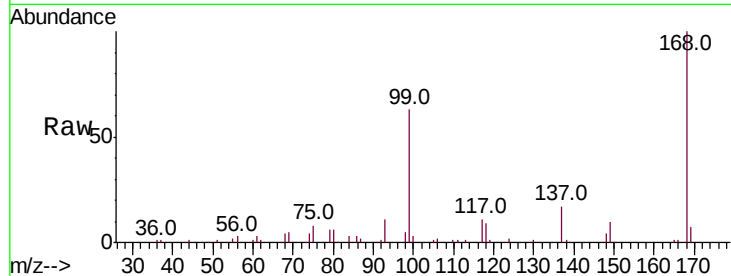
Tot Ion:117 Resp: 14054

Ion Ratio Lower Upper

117 100

119 5.5 79.4 119.2#

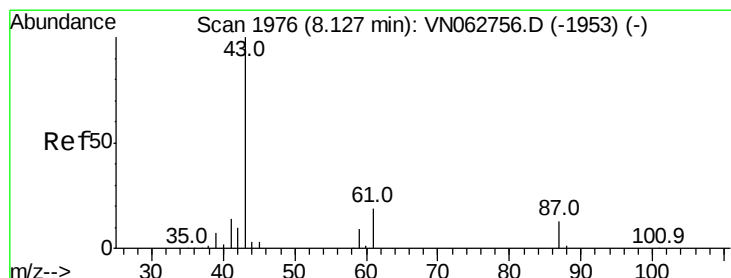
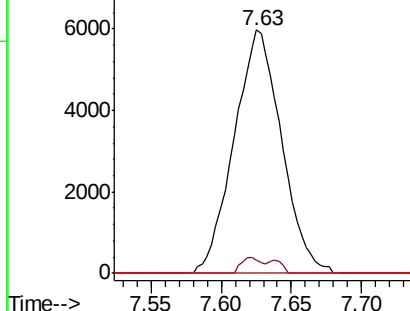
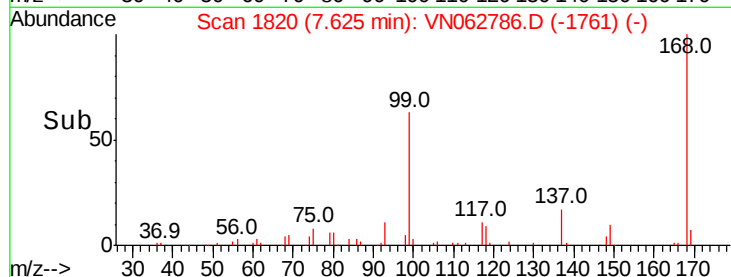
121 0.0 24.9 37.3#



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: 12.326 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

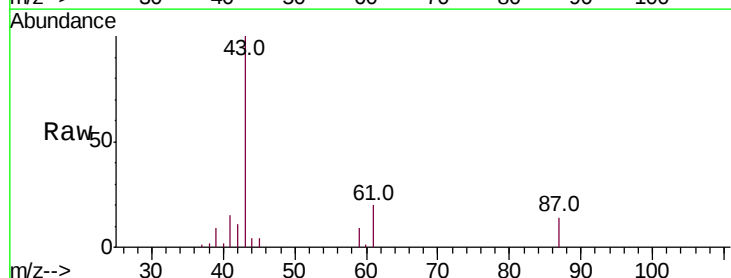
Tgt Ion: 43 Resp: 48978

Ion Ratio Lower Upper

43 100

61 19.5 15.8 23.6

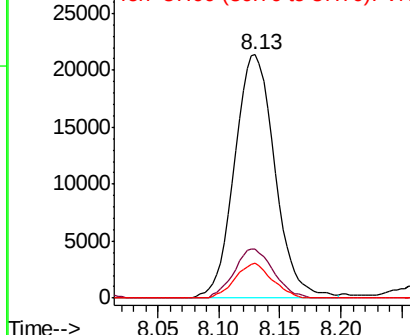
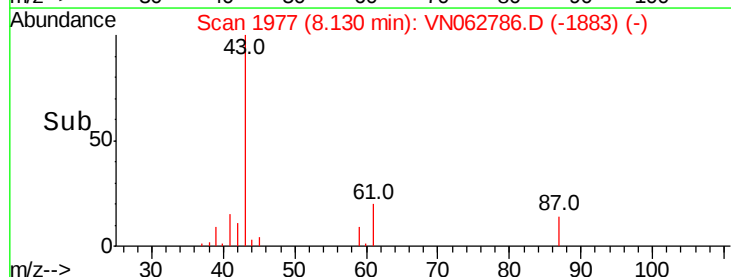
87 13.1 9.9 14.9

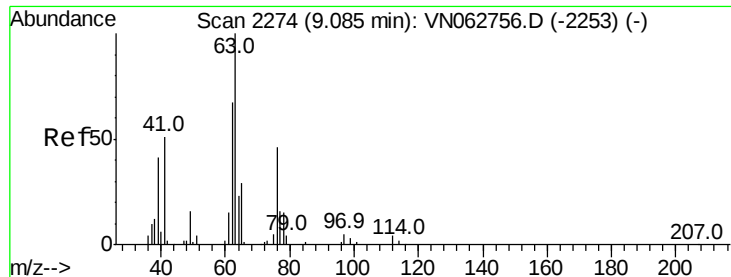


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.548 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

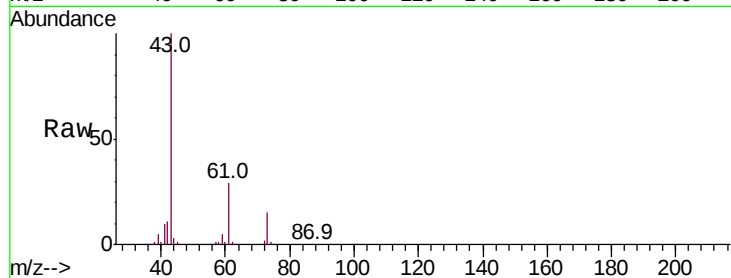
PB130790ZHE#03

Tot Ion: 63 Resp: 1010

Ion Ratio Lower Upper

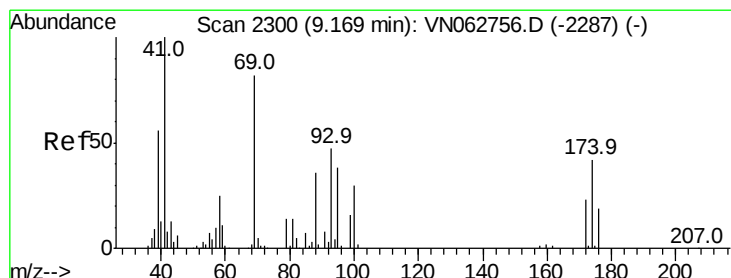
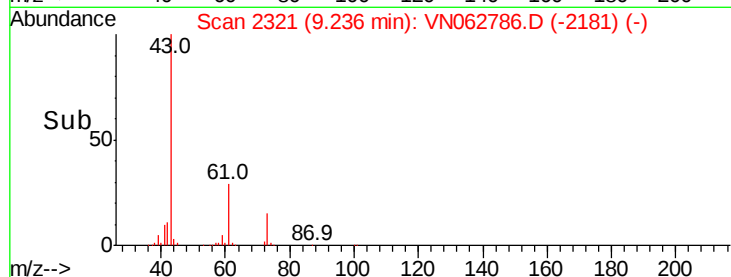
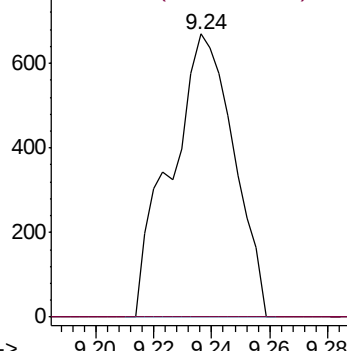
63 100

65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.595 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

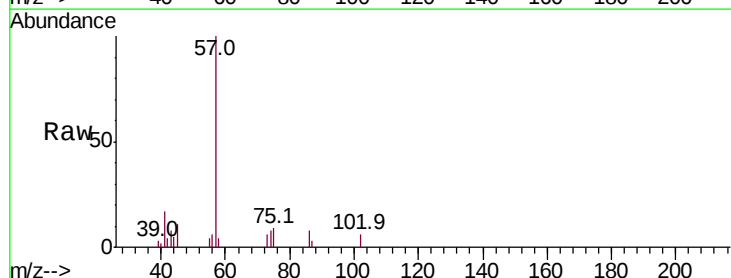
Tgt Ion: 41 Resp: 3118

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

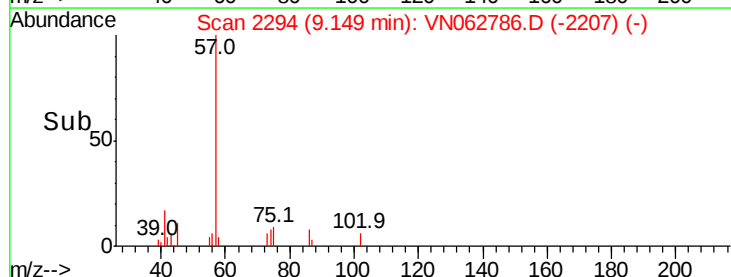
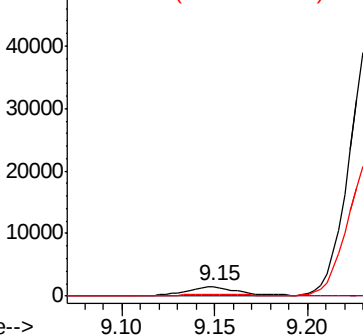
39 0.0 47.6 71.4#

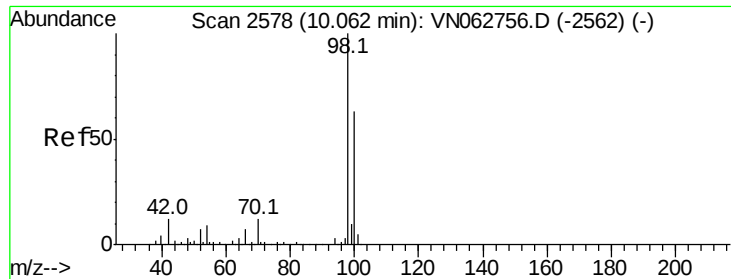


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

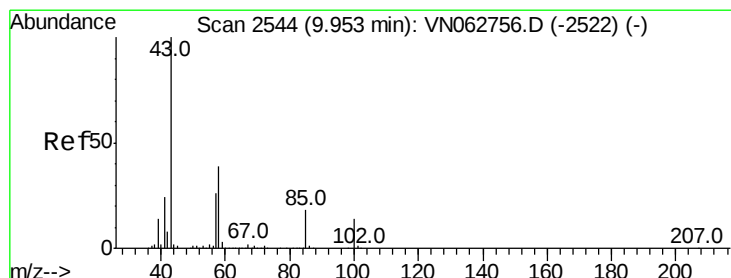
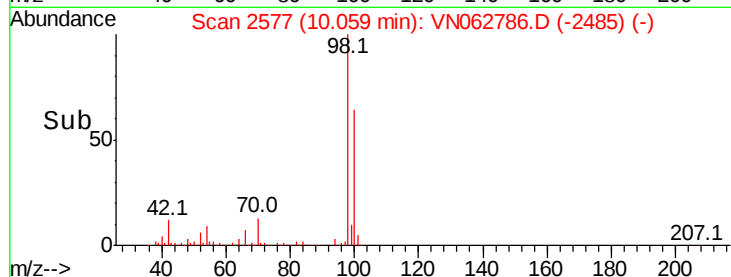
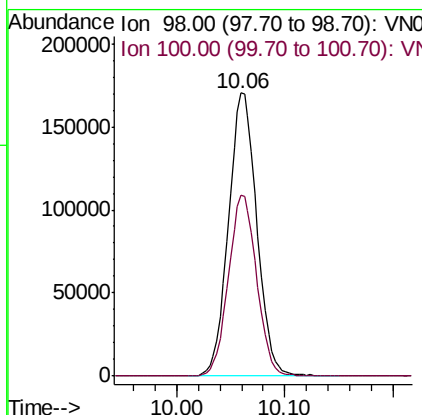
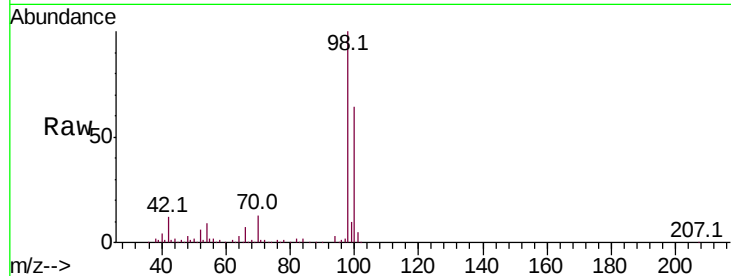




#50
Toluene-d8
Concen: 49.895 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

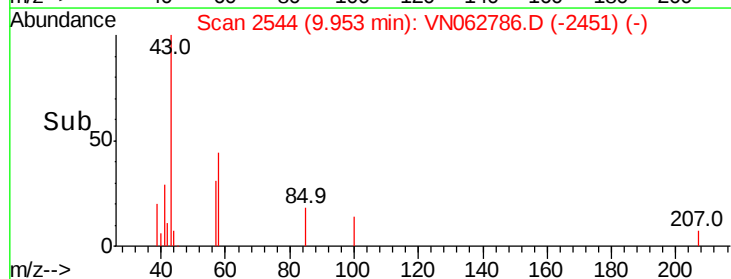
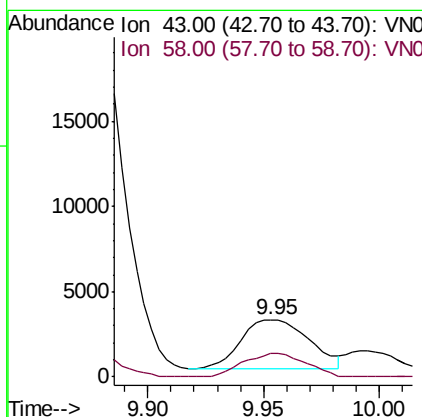
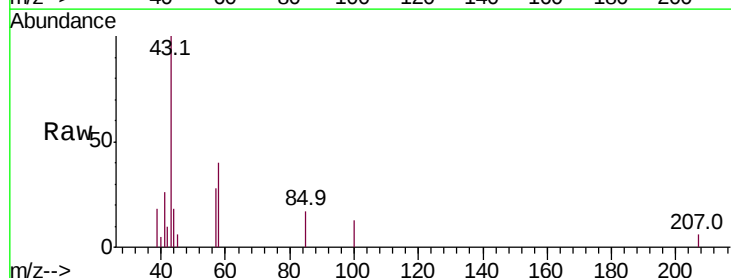
Instrument :
MSVOA_N
ClientSampleId :
PB130790ZHE#03

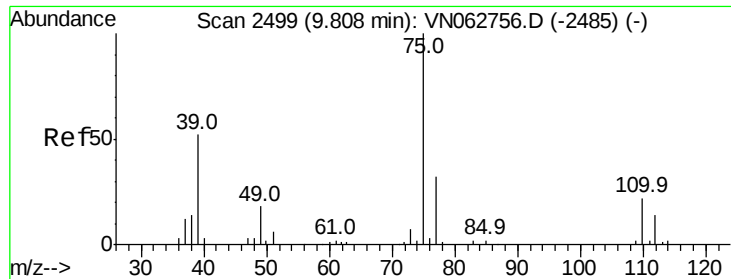
Tot Ion: 98 Resp: 312083
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 2.304 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062786.D
Acq: 7 Aug 2020 18:05

Tgt Ion: 43 Resp: 5924
Ion Ratio Lower Upper
43 100
58 43.6 31.1 46.7



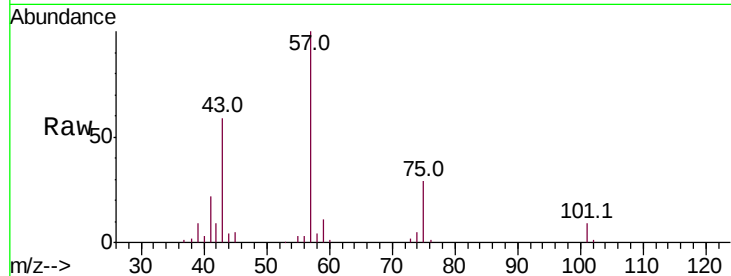


#54

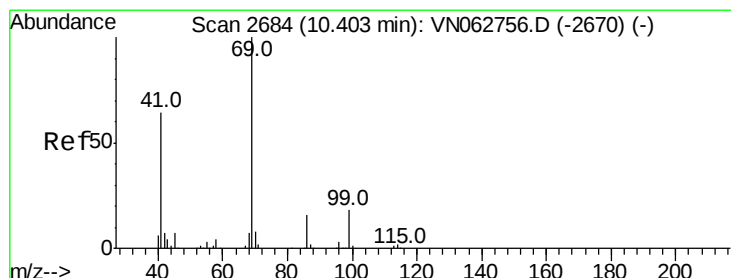
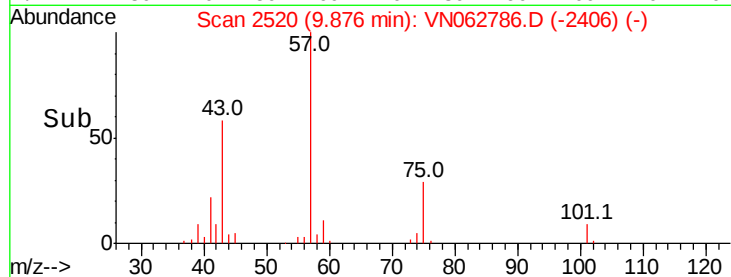
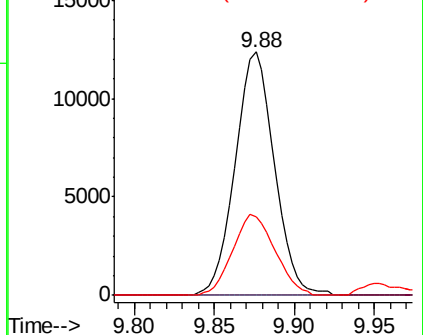
cis-1,3-Dichloropropene
 Concen: 6.886 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130790ZHE#03

Tot Ion: 75 Resp: 20611
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 32.4 41.9 62.9#



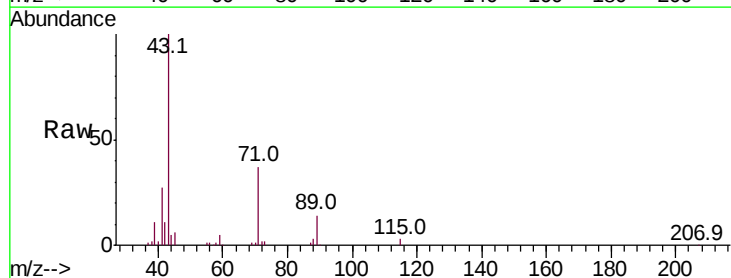
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



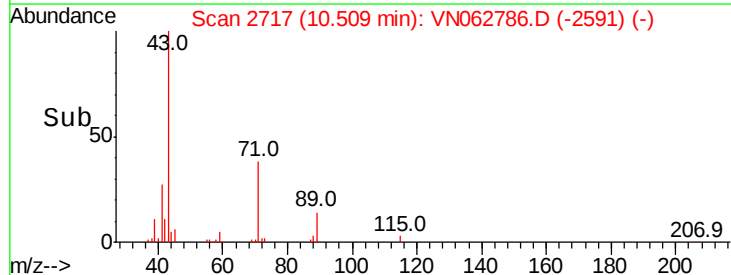
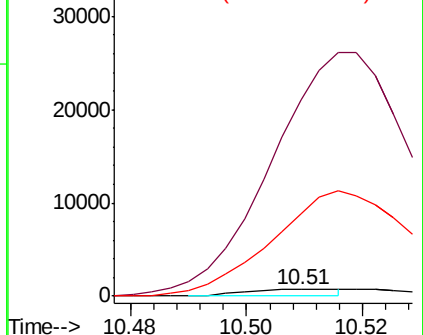
#56

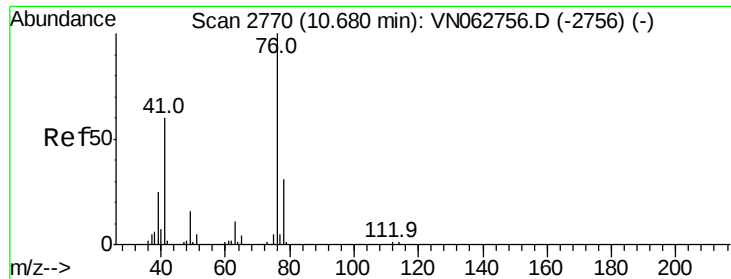
Ethyl methacrylate
 Concen: 0.294 ug/l
 RT: 10.51 min Scan# 2717
 Delta R.T. 0.11 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Tgt Ion: 69 Resp: 793
 Ion Ratio Lower Upper
 69 100
 41 5709.2 52.2 78.2#
 39 2461.0 30.9 46.3#



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





#57

1,3-Dichloropropane

Concen: 1.244 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

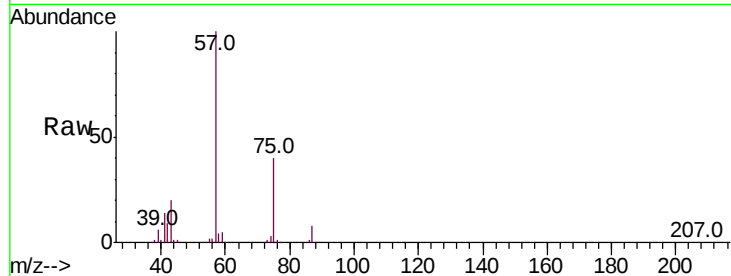
PB130790ZHE#03

Tot Ion: 76 Resp: 3793

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.74

2500

2000

1500

1000

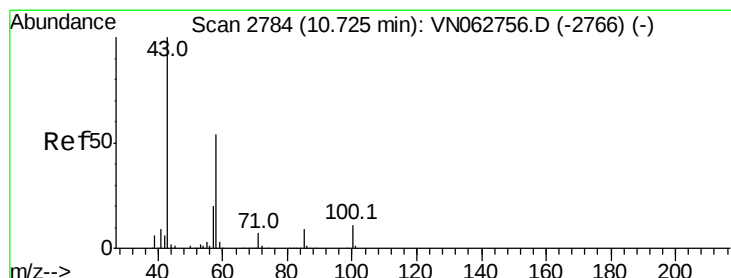
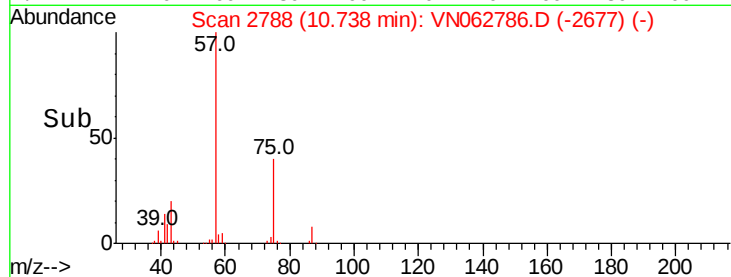
500

0

Time-->

10.70

10.75



#59

2-Hexanone

Concen: 29.202 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN062786.D

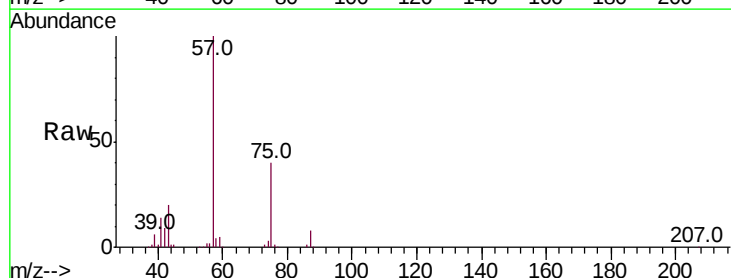
Acq: 7 Aug 2020 18:05

Tgt Ion: 43 Resp: 56002

Ion Ratio Lower Upper

43 100

58 20.0 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

40000

30000

20000

10000

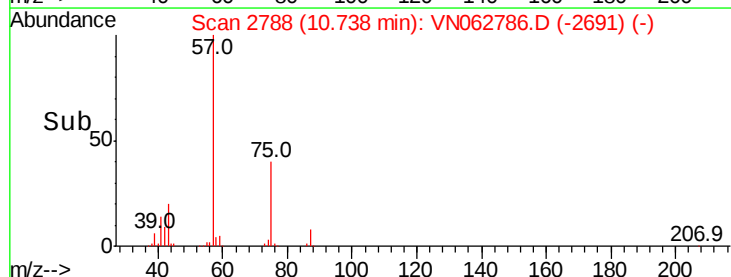
0

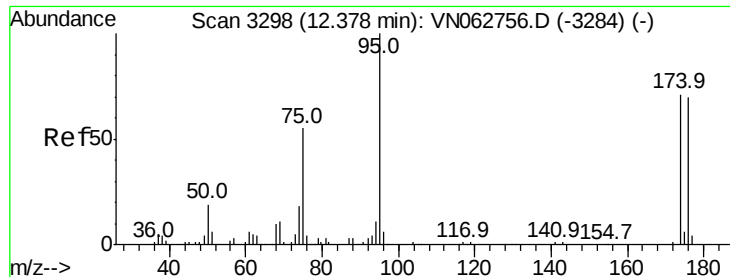
Time-->

10.70

10.75

10.80





#62

4-Bromofluorobenzene

Concen: 47.684 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

PB130790ZHE#03

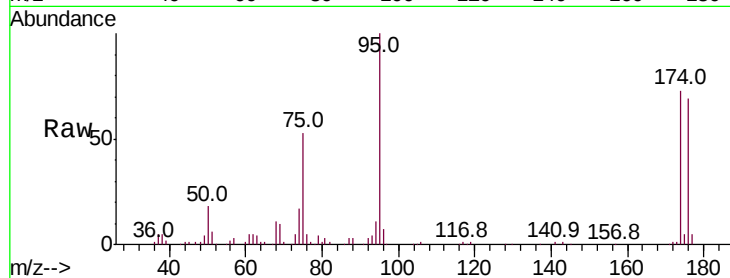
Tot Ion: 95 Resp: 112710

Ion Ratio Lower Upper

95 100

174 74.8 0.0 144.8

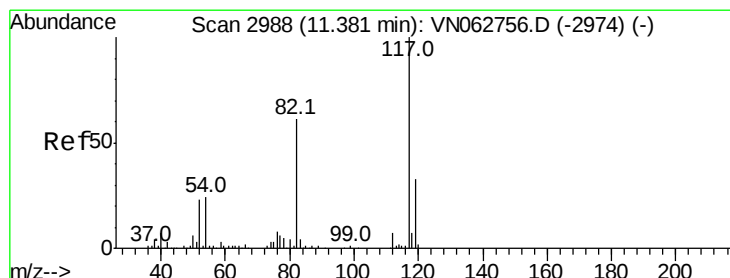
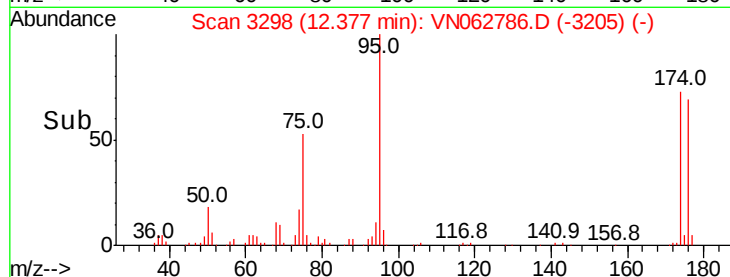
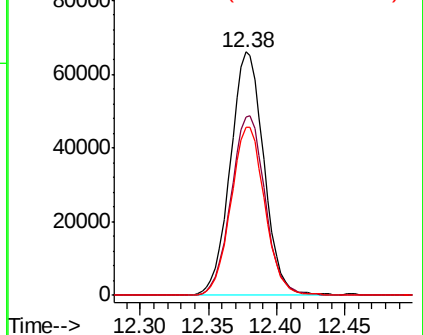
176 70.0 0.0 142.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

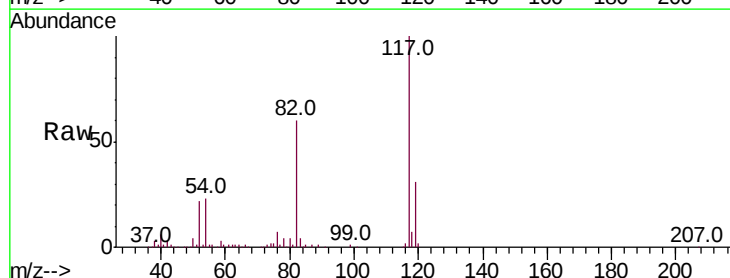
Tgt Ion: 117 Resp: 244688

Ion Ratio Lower Upper

117 100

82 59.7 49.0 73.4

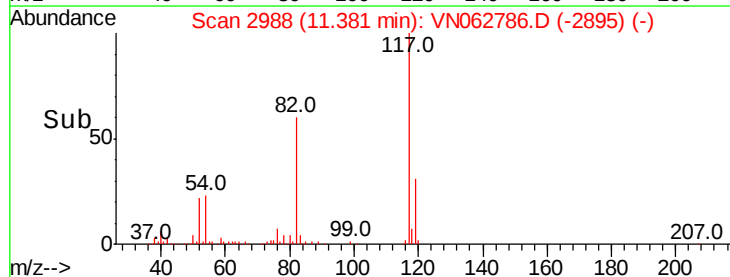
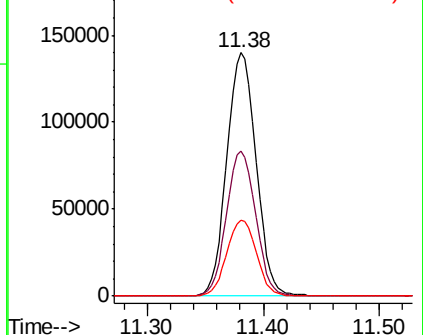
119 31.3 26.2 39.2

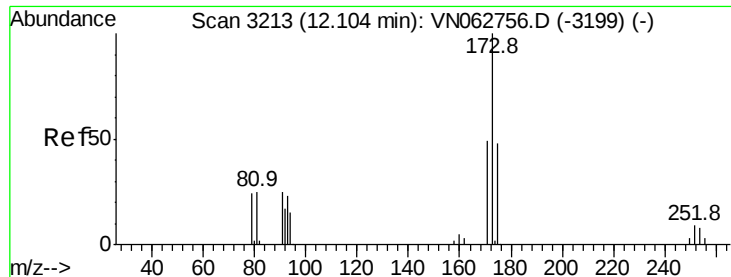


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.449 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

PB130790ZHE#03

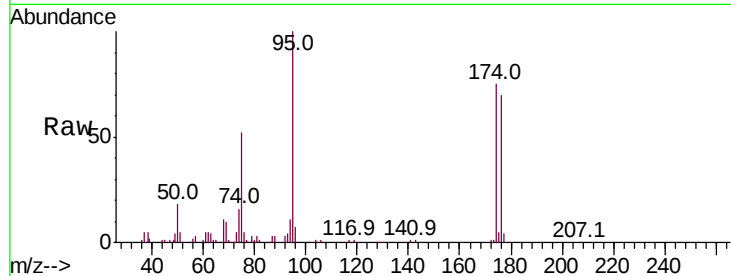
Tot Ion:173 Resp: 754

Ion Ratio Lower Upper

173 100

175 701.7 24.0 72.0#

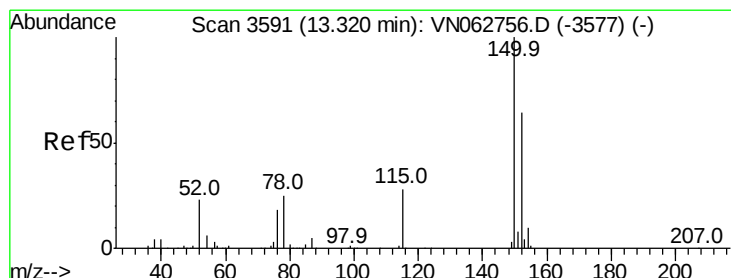
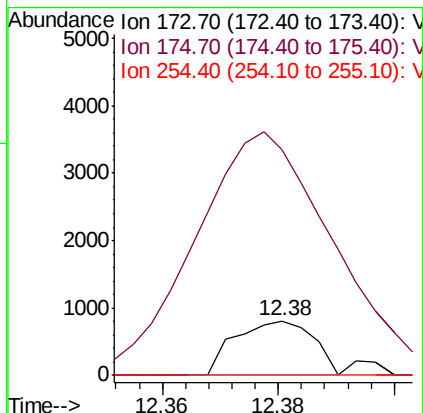
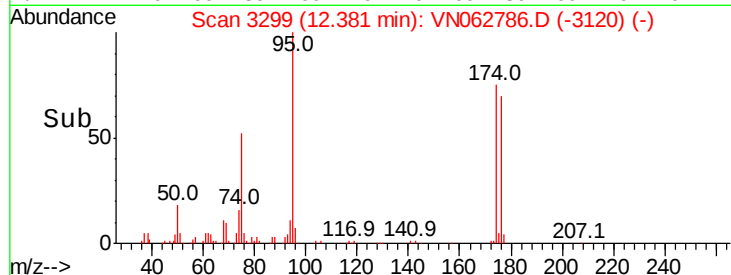
254 0.0 0.0 0.0



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: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

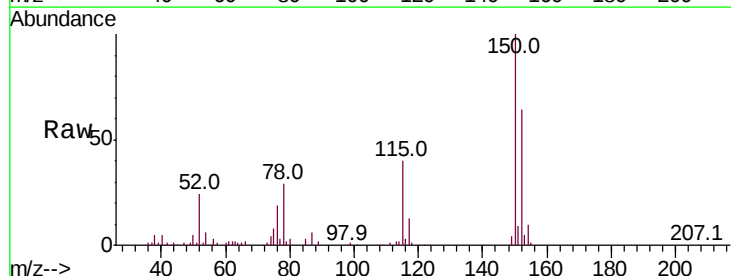
Tgt Ion:152 Resp: 86262

Ion Ratio Lower Upper

152 100

115 62.3 31.6 94.8

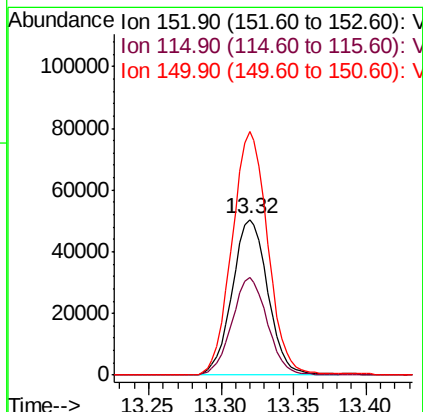
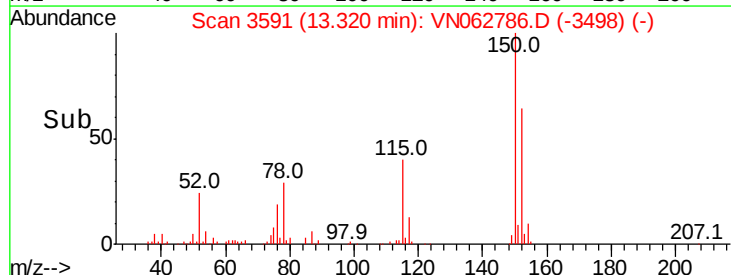
150 156.6 0.0 349.2

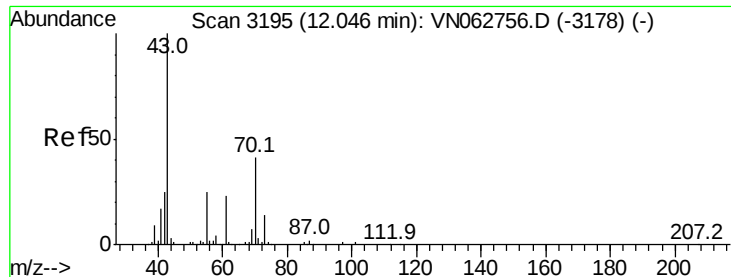


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.340 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062786.D

Acq: 7 Aug 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

PB130790ZHE#03

Tot Ion: 43 Resp: 896

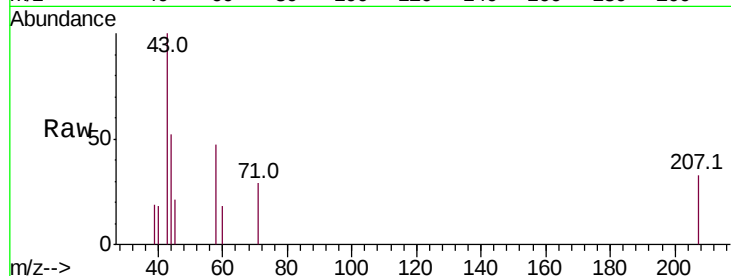
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

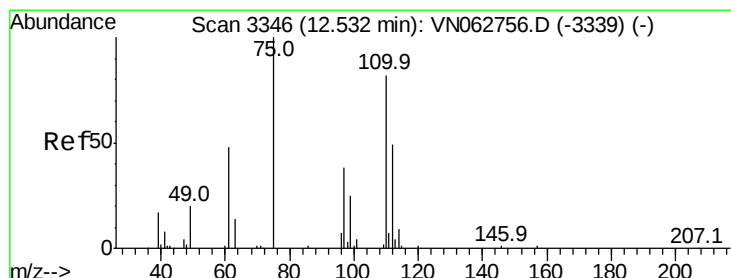
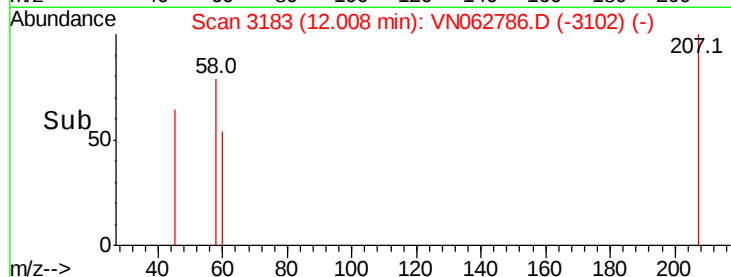
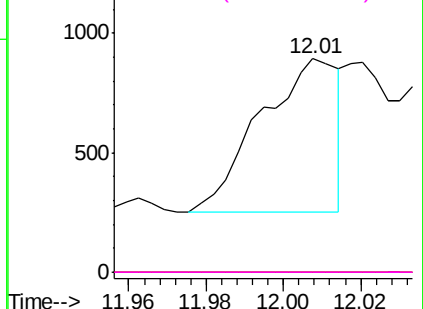


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.580 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062786.D

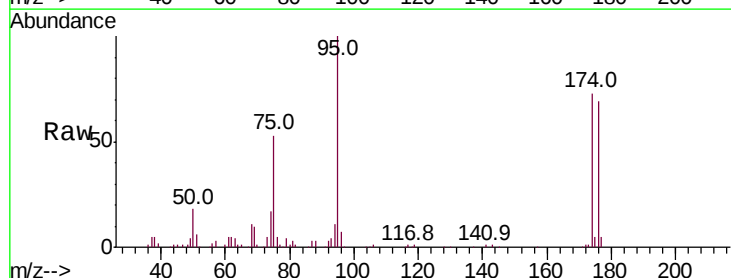
Acq: 7 Aug 2020 18:05

Tgt Ion: 75 Resp: 59508

Ion Ratio Lower Upper

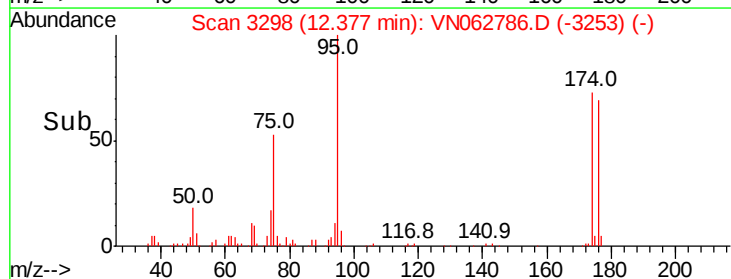
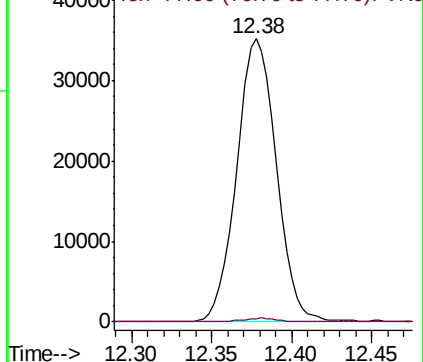
75 100

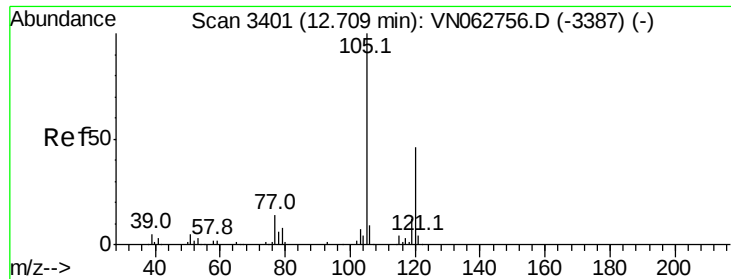
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

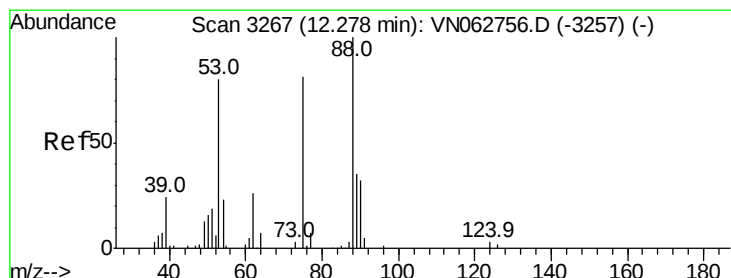
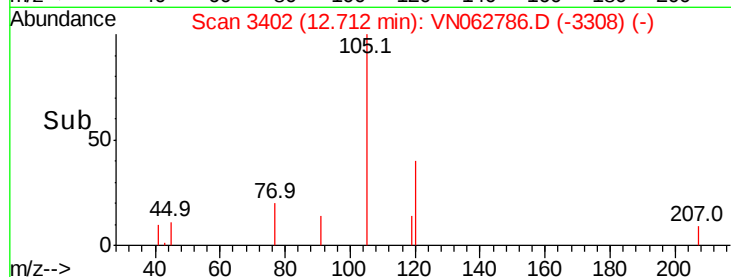
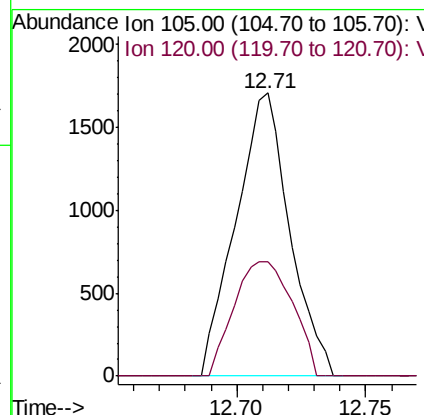
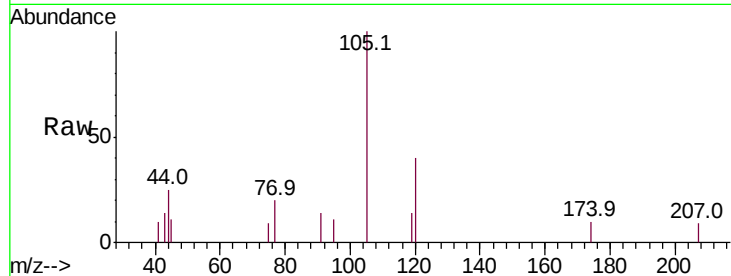




#80
 1,3,5-Trimethylbenzene
 Concen: 0.441 ug/l
 RT: 12.71 min Scan# 3402
 Delta R.T. 0.00 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130790ZHE#03

Tot Ion:105 Resp: 2487
 Ion Ratio Lower Upper
 105 100
 120 43.9 22.9 68.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.087 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062786.D
 Acq: 7 Aug 2020 18:05

Tgt Ion: 75 Resp: 59508
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.1 118.7#
 89 0.0 36.2 54.2#

