

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062420\
 Data File : VN062091.D
 Acq On : 25 Jun 2020 3:03
 Operator : JC/MD
 Sample : PB129725ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129725ZHE#04

Quant Time: Jun 25 04:36:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	210352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	414851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	402500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	147890	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	152736	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
35) Dibromofluoromethane	7.55	113	129411	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	10.06	98	529697	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.38	95	170918	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	386	Below Cal	#	41
8) Diethyl Ether	3.38	74	401	0.249	ug/l	94
16) Acetone	3.78	43	13490	10.681	ug/l	95
18) Methyl Acetate	4.28	43	4491	1.914	ug/l #	67
20) Methylene Chloride	4.50	84	13792	4.894	ug/l	97
25) 2-Butanone	6.81	43	2295	1.591	ug/l	98
29) Tetrahydrofuran	7.18	42	822	0.870	ug/l #	48
31) Cyclohexane	7.63	56	5238	1.284	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	18185	4.361	ug/l #	48
37) Ethyl Acetate	6.81	43	2295	0.665	ug/l #	66
38) Carbon Tetrachloride	7.63	117	21168	5.385	ug/l #	15
43) Isopropyl Acetate	8.13	43	57782	10.266	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1490	0.475	ug/l #	43
48) Methyl methacrylate	9.15	41	3685	1.460	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	6292	1.913	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	29115	5.791	ug/l #	68
56) Ethyl methacrylate	10.52	69	1428	0.351	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5185	0.988	ug/l #	42
59) 2-Hexanone	10.74	43	65767	27.695	ug/l #	50
71) Bromoform	12.38	173	1216	0.560	ug/l #	1
74) N-amyl acetate	12.00	43	1844	3.751	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	85853	24.660	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2574	0.277	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	85853	72.017	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

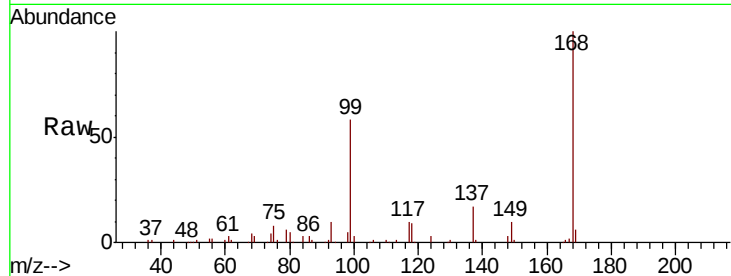
PB129725ZHE#04

Tot Ion:168 Resp: 210352

Ion Ratio Lower Upper

168 100

99 58.2 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062091.D

Ion 98.90 (98.60 to 99.60): VN062091.D

7.63

80000

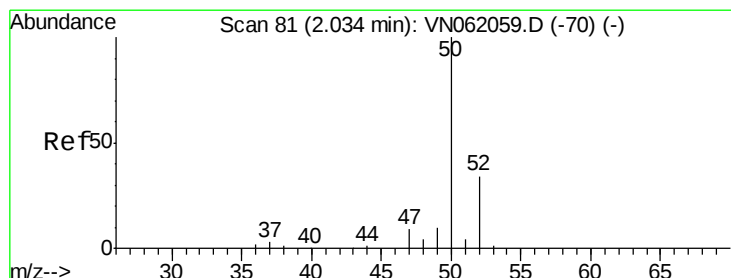
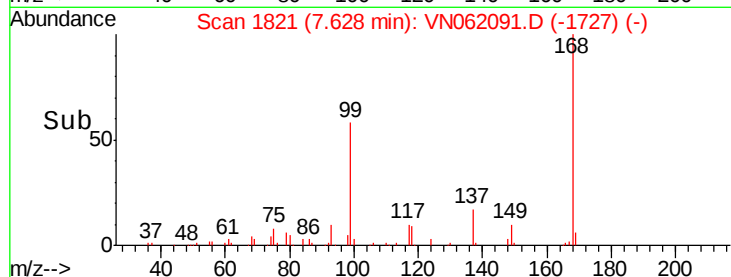
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062091.D

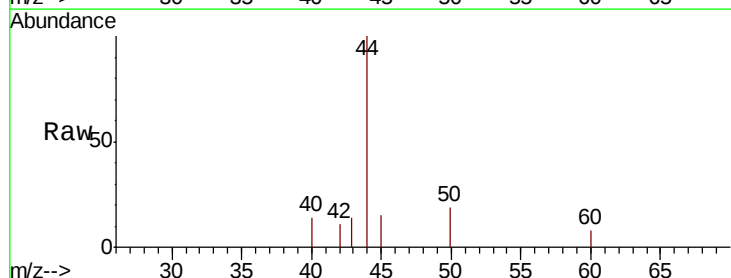
Acq: 25 Jun 2020 3:03

Tgt Ion: 50 Resp: 386

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062091.D

Ion 51.90 (51.60 to 52.60): VN062091.D

2.03

400

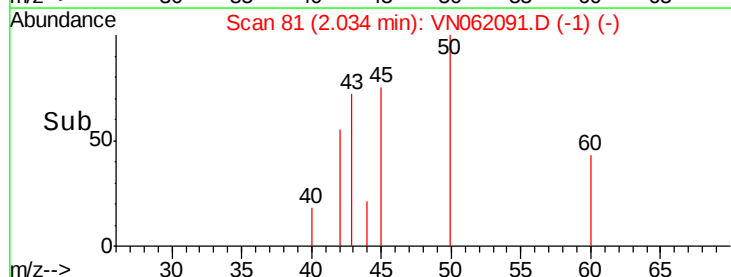
300

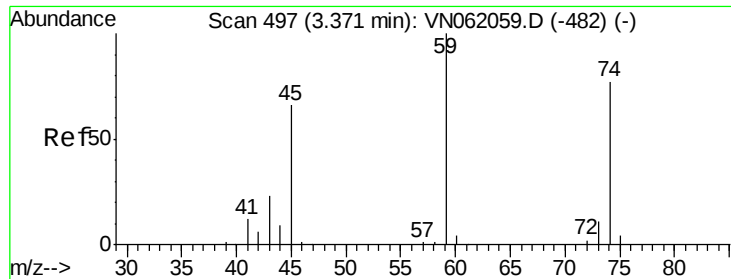
200

100

0

Time--> 2.02 2.04 2.06





#8

Diethyl Ether

Concen: 0.249 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

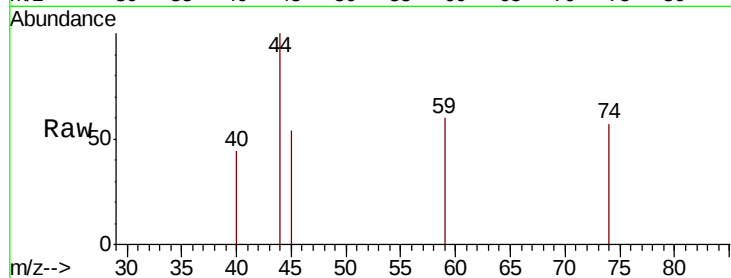
PB129725ZHE#04

Tot Ion: 74 Resp: 401

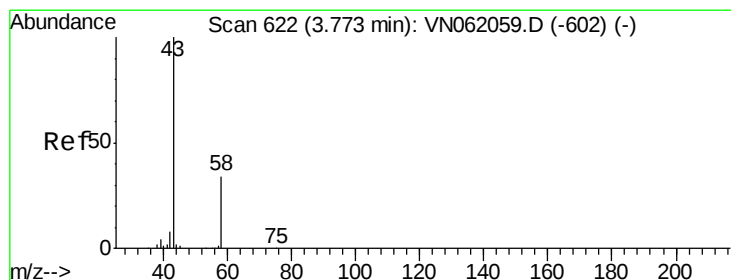
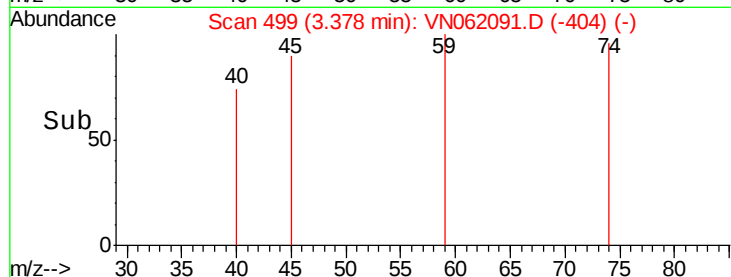
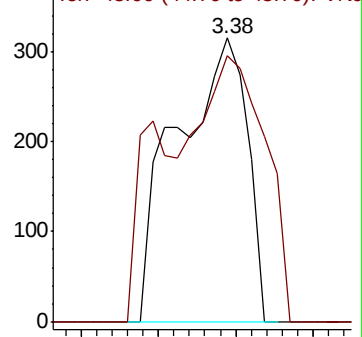
Ion Ratio Lower Upper

74 100

45 90.3 42.5 127.5



Abundance Ion 74.00 (73.70 to 74.70): VN062091.D (-404) (-)



#16

Acetone

Concen: 10.681 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062091.D

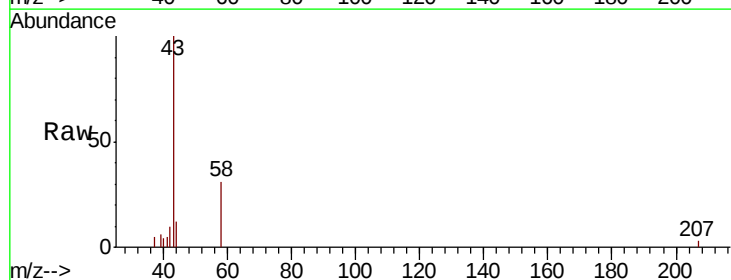
Acq: 25 Jun 2020 3:03

Tgt Ion: 43 Resp: 13490

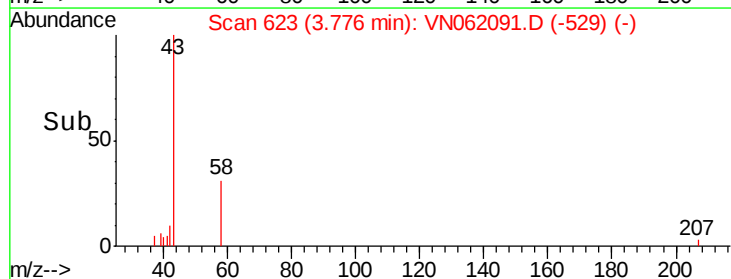
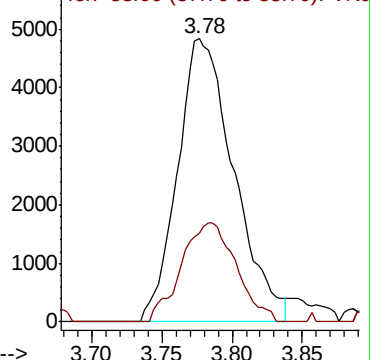
Ion Ratio Lower Upper

43 100

58 31.3 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN062091.D (-529) (-)

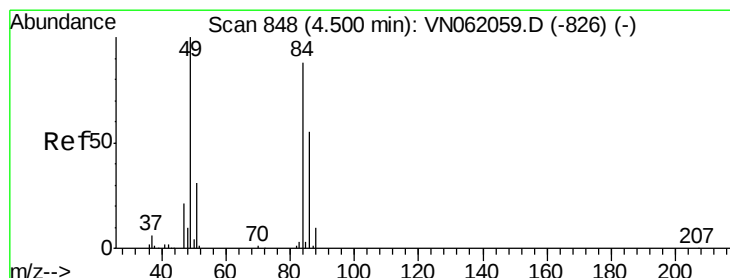
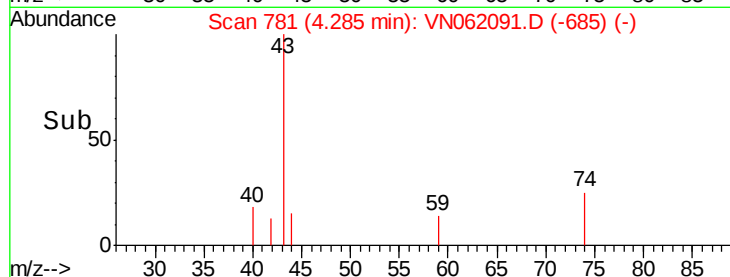
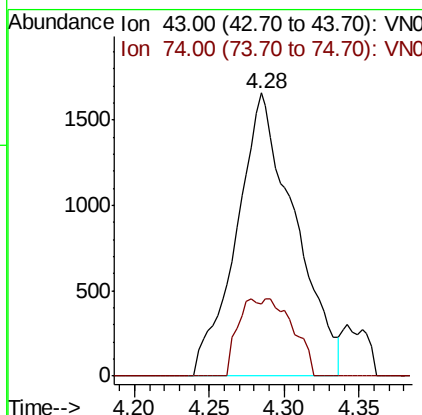
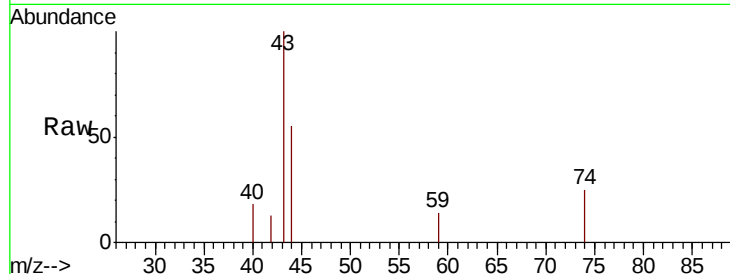




#18
Methyl Acetate
Concen: 1.914 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

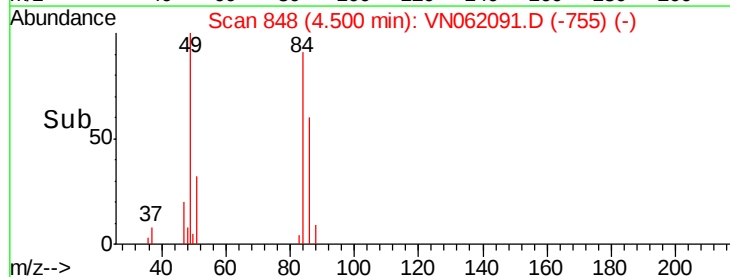
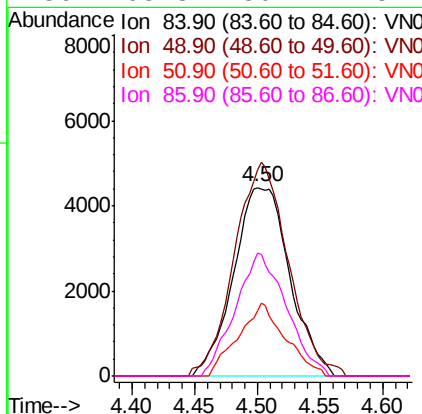
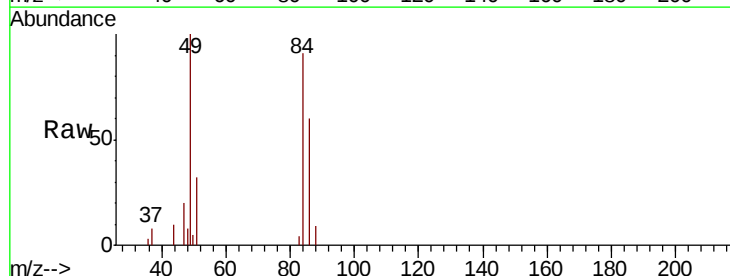
Instrument :
MSVOA_N
ClientSampleId :
PB129725ZHE#04

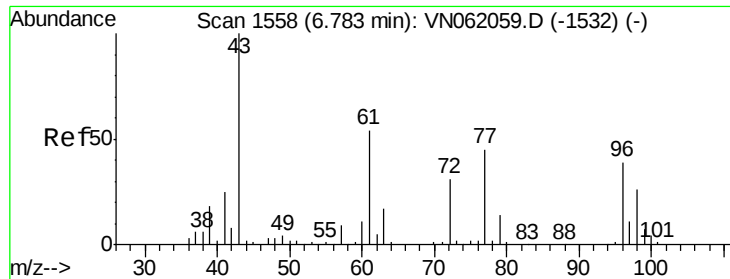
Tot Ion: 43 Resp: 4491
Ion Ratio Lower Upper
43 100
74 11.2 22.9 34.3#



#20
Methylene Chloride
Concen: 4.894 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Tgt Ion: 84 Resp: 13792
Ion Ratio Lower Upper
84 100
49 109.5 90.6 136.0
51 34.9 27.8 41.8
86 65.3 50.1 75.1

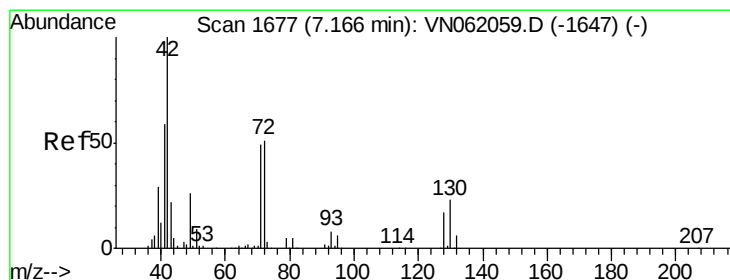
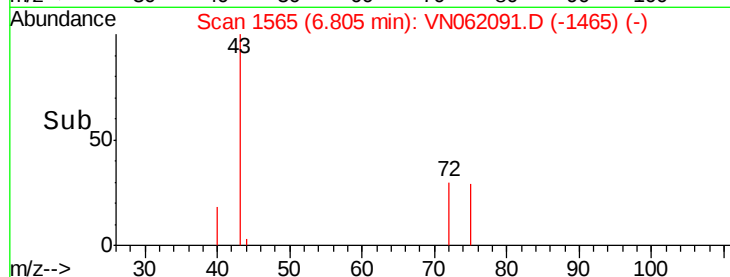
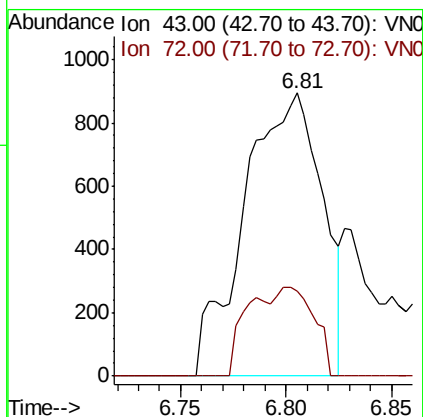
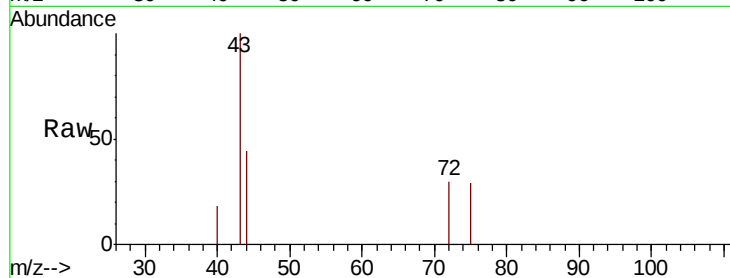




#25
2-Butanone
Concen: 1.591 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

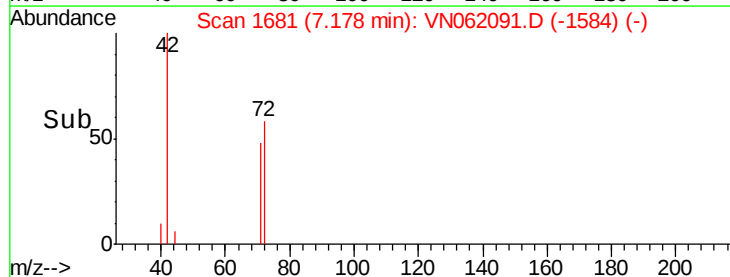
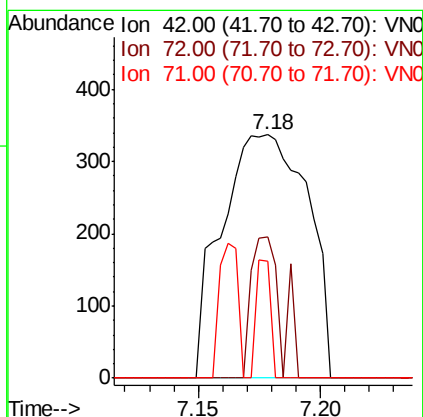
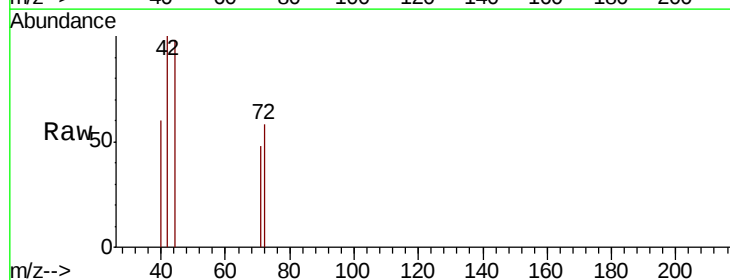
Instrument :
MSVOA_N
ClientSampleId :
PB129725ZHE#04

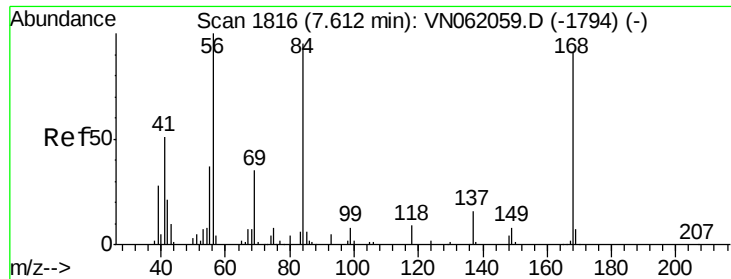
Tot Ion: 43 Resp: 2295
Ion Ratio Lower Upper
43 100
72 30.1 24.8 37.2



#29
Tetrahydrofuran
Concen: 0.870 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Tgt Ion: 42 Resp: 822
Ion Ratio Lower Upper
42 100
72 20.1 41.1 61.7#
71 7.7 38.2 57.4#

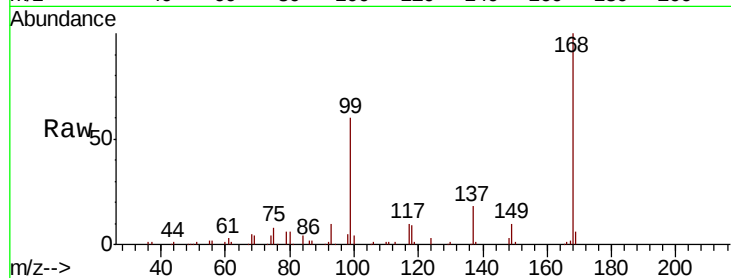




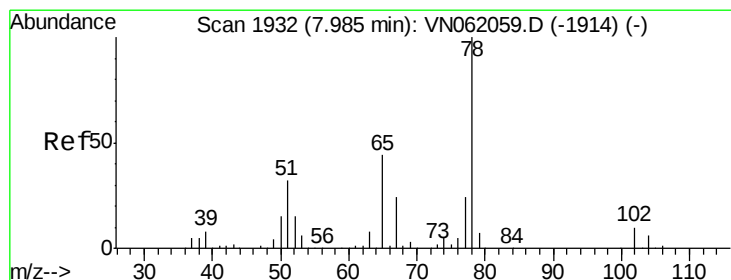
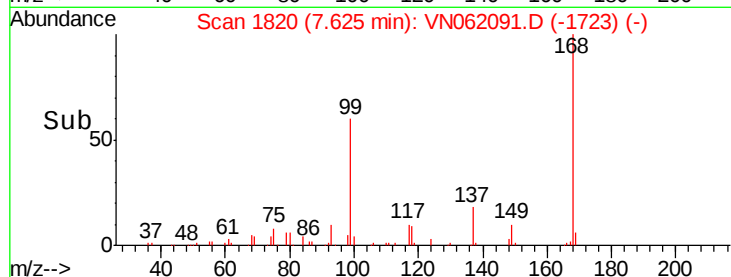
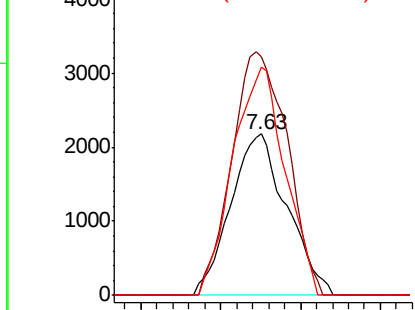
#31
Cyclohexane
Concen: 1.284 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Instrument :
MSVOA_N
ClientSampleId :
PB129725ZHE#04

Tot Ion: 56 Resp: 5238
Ion Ratio Lower Upper
56 100
69 147.8 28.0 42.0#
84 141.3 76.1 114.1#

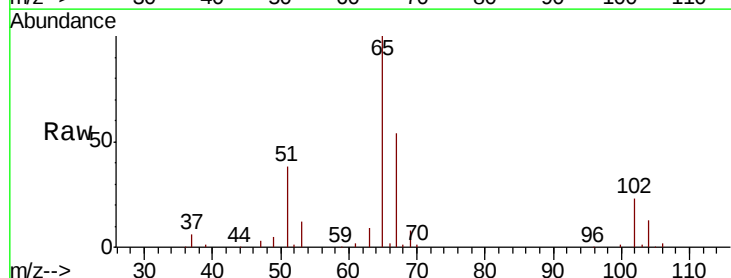


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

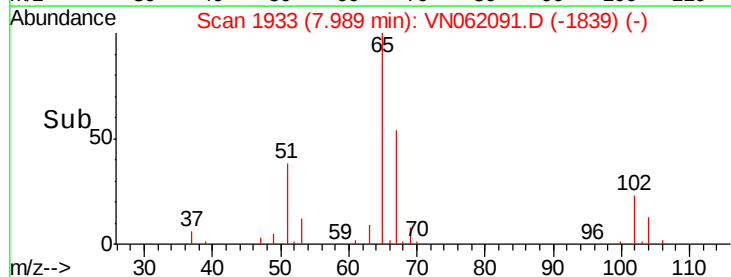
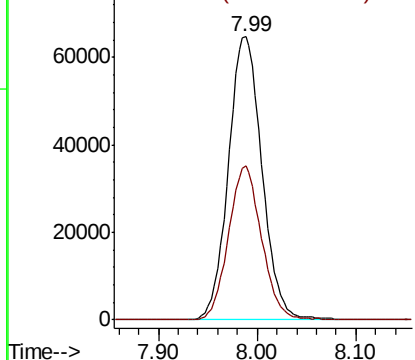


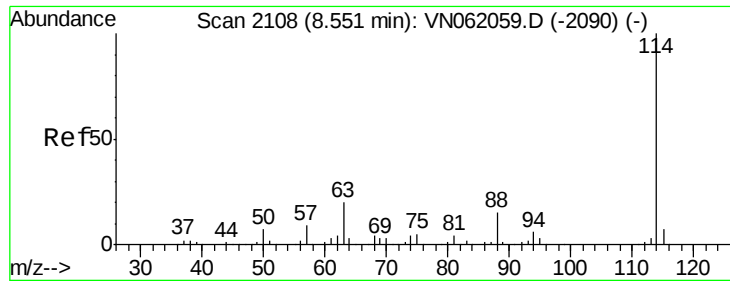
#33
1,2-Dichloroethane-d4
Concen: 51.741 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Tgt Ion: 65 Resp: 152736
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

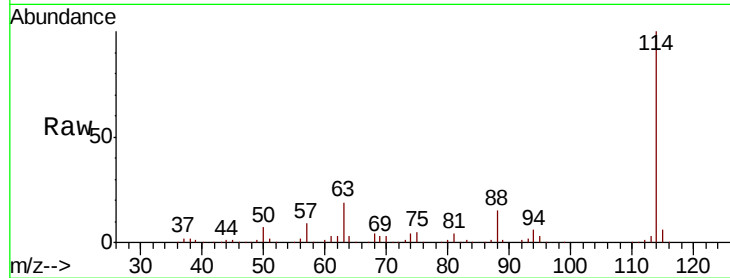




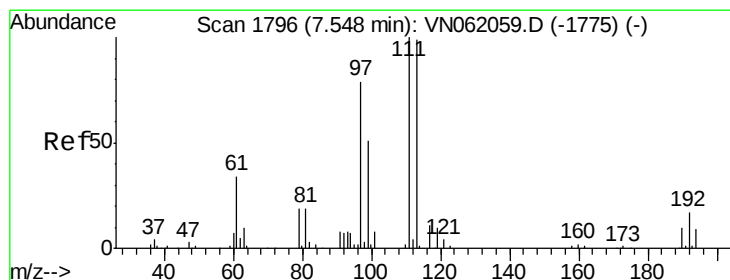
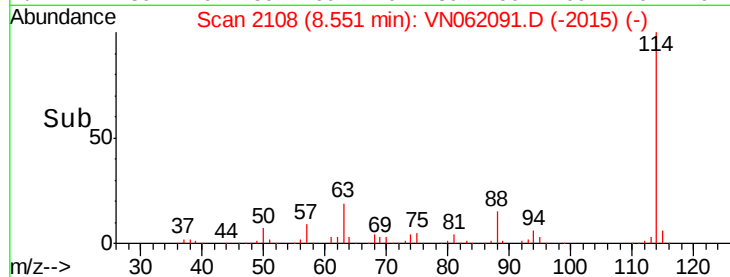
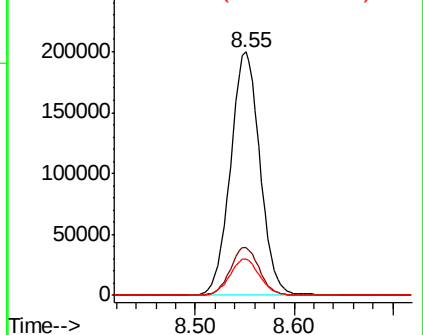
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Instrument :
MSVOA_N
ClientSampleId :
PB129725ZHE#04

Tot Ion:114 Resp: 414851
Ion Ratio Lower Upper
114 100
63 19.4 0.0 39.2
88 14.9 0.0 30.8

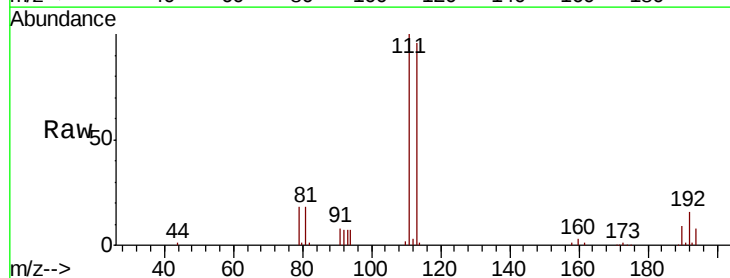


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

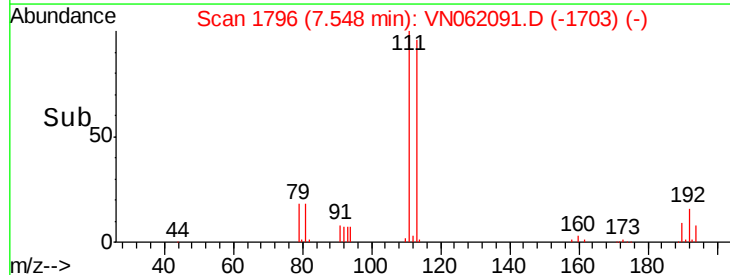
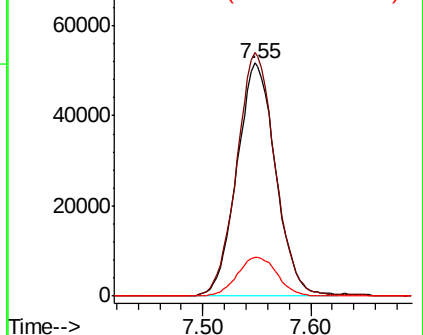


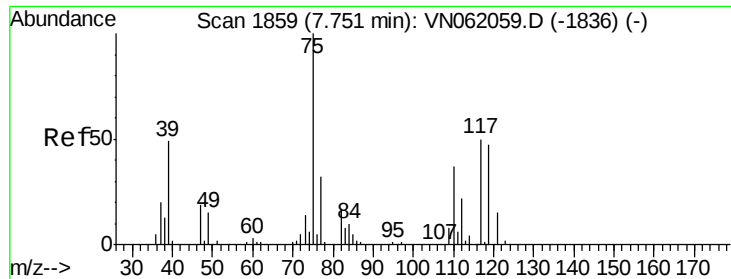
#35
Dibromofluoromethane
Concen: 48.624 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Tgt Ion:113 Resp: 129411
Ion Ratio Lower Upper
113 100
111 103.4 82.2 123.4
192 17.2 14.0 21.0



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

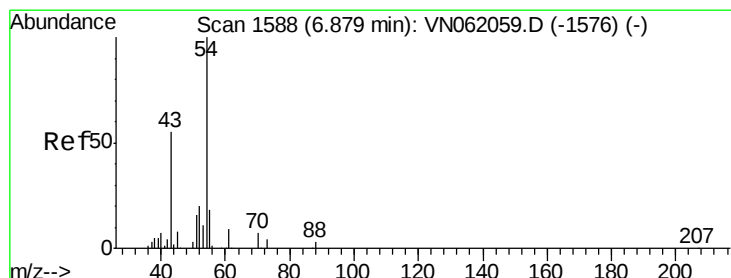
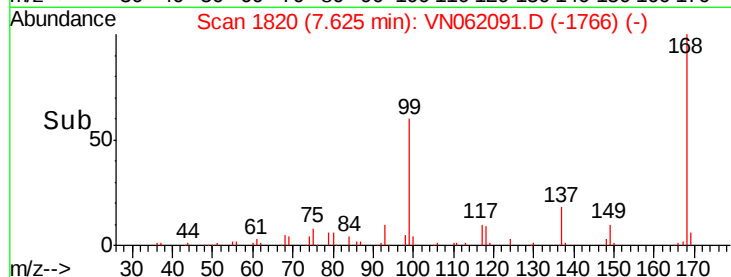
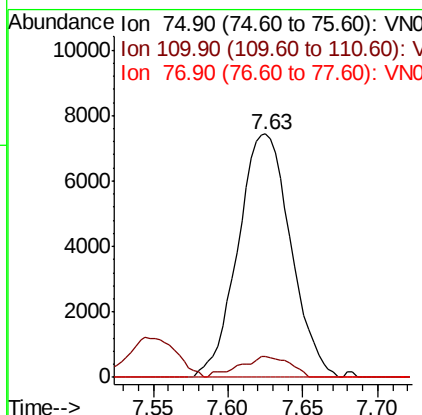
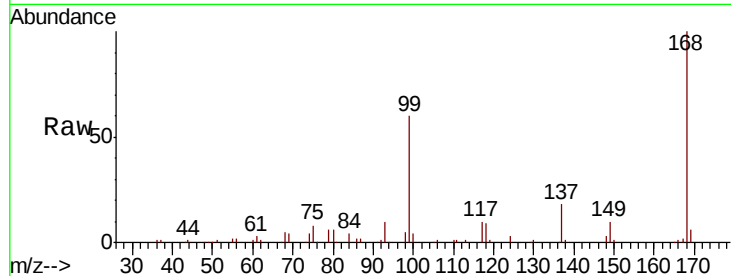




#36
 1,1-Dichloropropene
 Concen: 4.361 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062091.D
 Acq: 25 Jun 2020 3:03

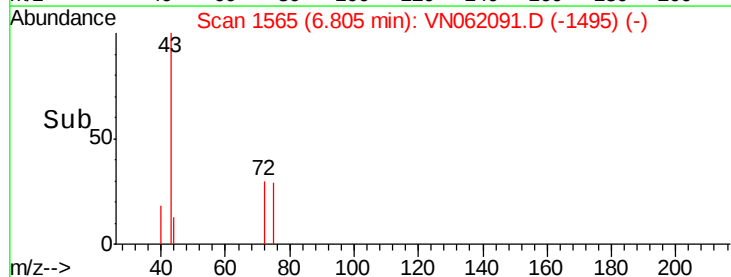
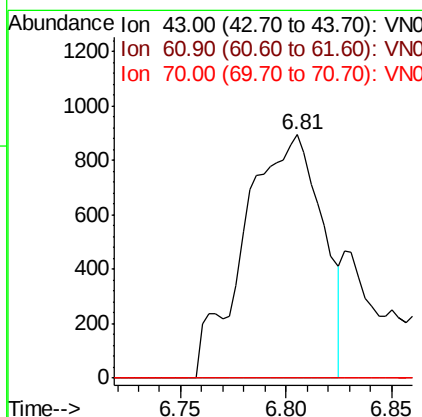
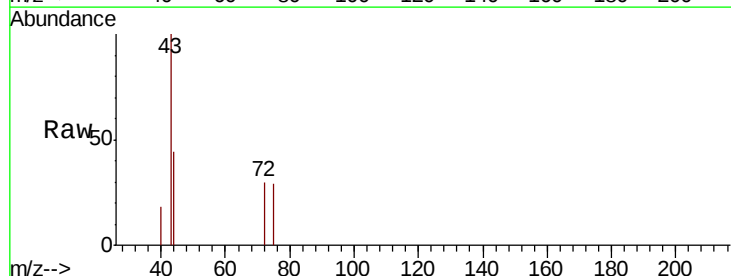
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129725ZHE#04

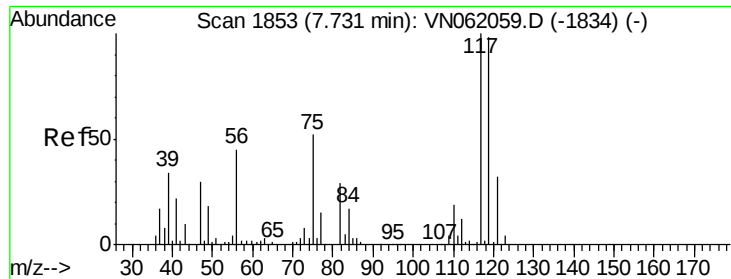
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.9	53.8#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 0.665 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.07 min
 Lab File: VN062091.D
 Acq: 25 Jun 2020 3:03

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.0	18.0#
70	0.0	9.6	14.4#





#38

Carbon Tetrachloride

Concen: 5.385 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB129725ZHE#04

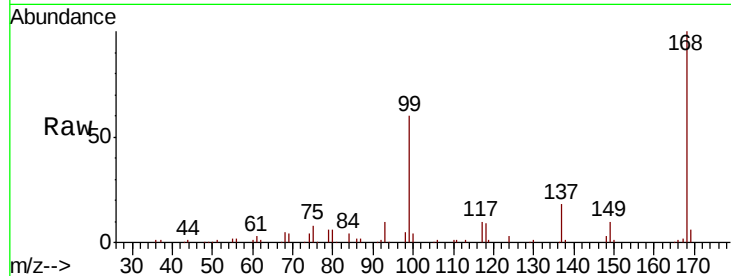
Tot Ion:117 Resp: 21168

Ion Ratio Lower Upper

117 100

119 4.9 78.2 117.2#

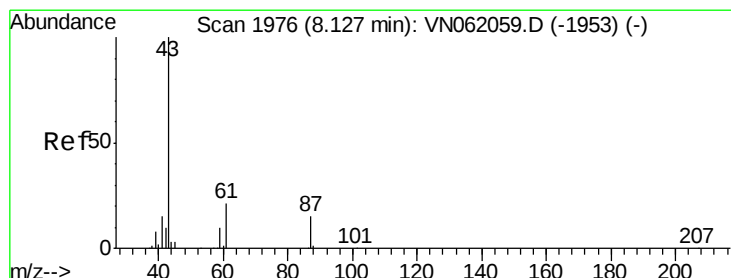
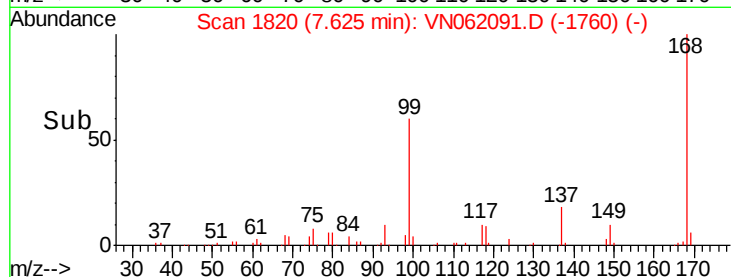
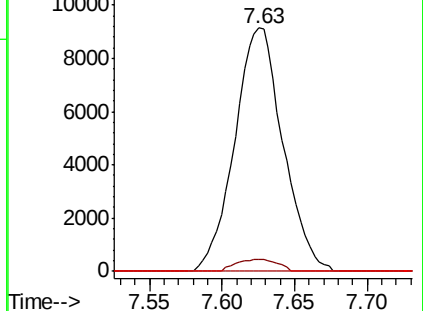
121 0.0 25.8 38.6#



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: 10.266 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

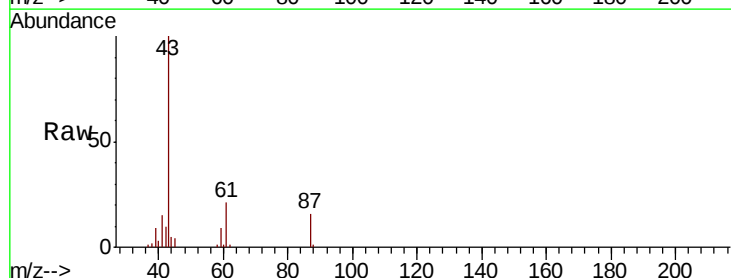
Tgt Ion: 43 Resp: 57782

Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

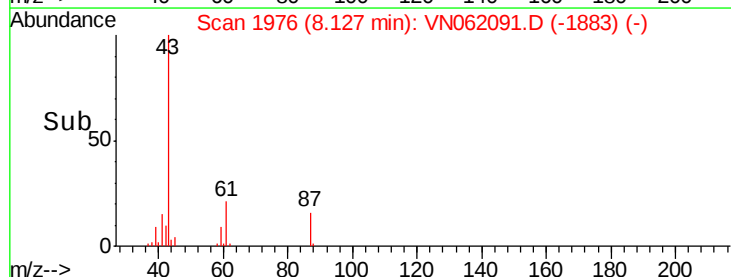
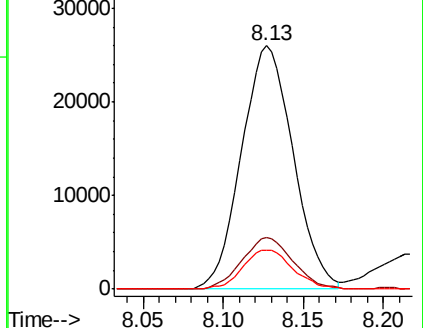
87 15.5 12.1 18.1

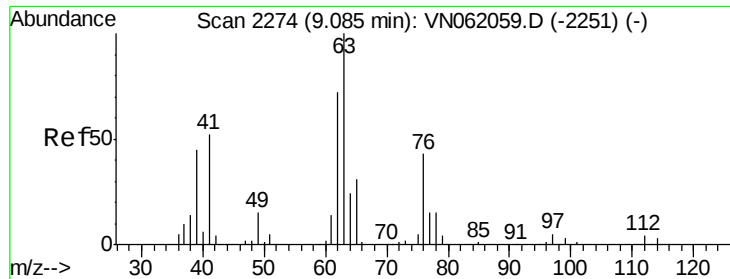


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.475 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

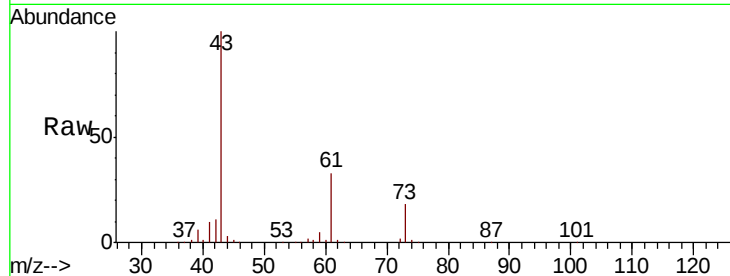
PB129725ZHE#04

Tot Ion: 63 Resp: 1490

Ion Ratio Lower Upper

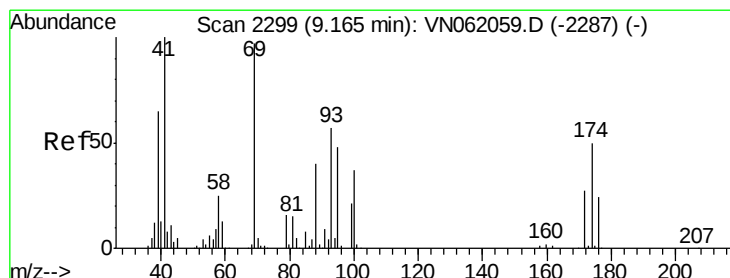
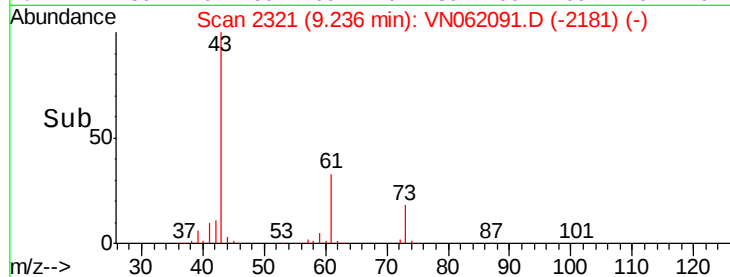
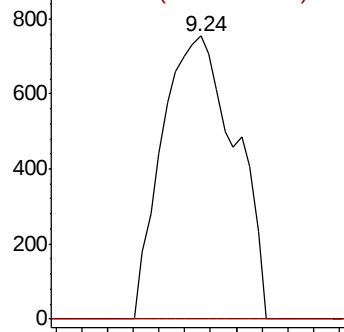
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.460 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

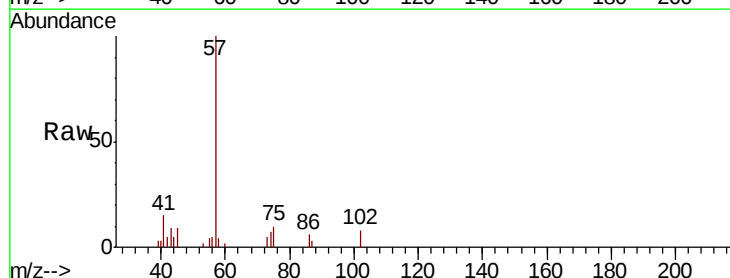
Tgt Ion: 41 Resp: 3685

Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

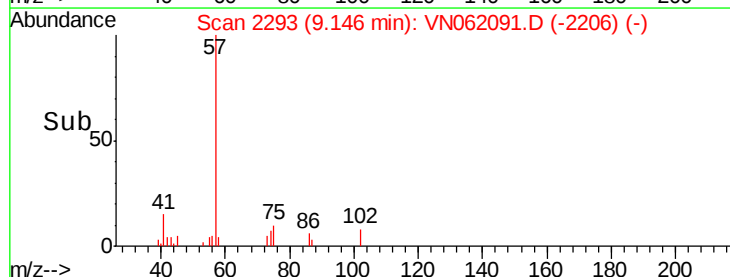
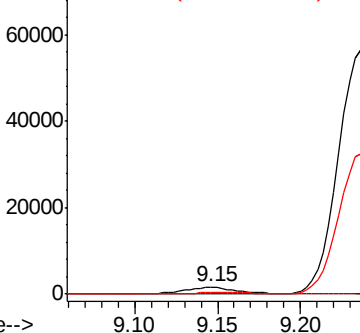
39 0.0 54.5 81.7#

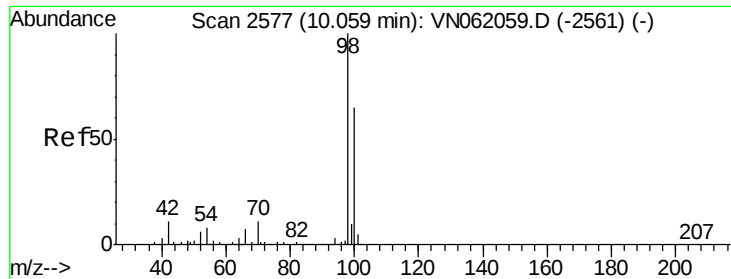


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.789 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

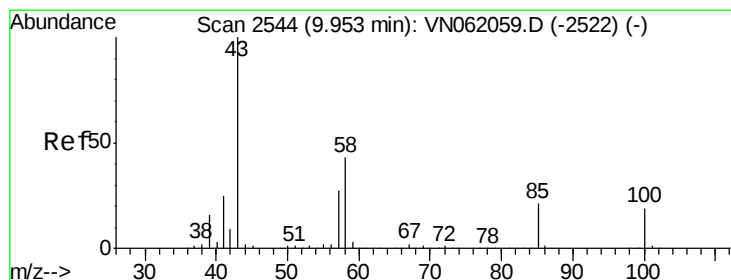
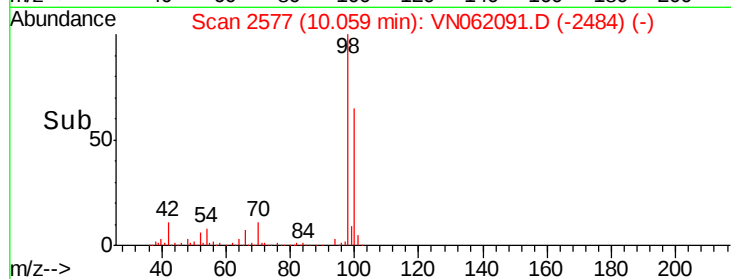
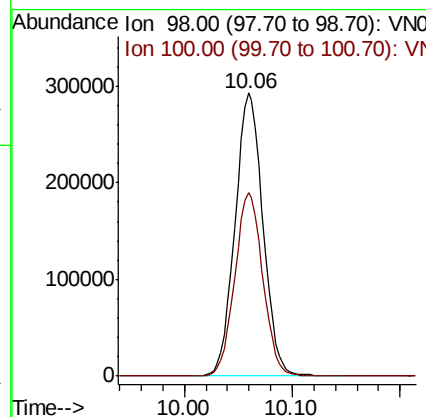
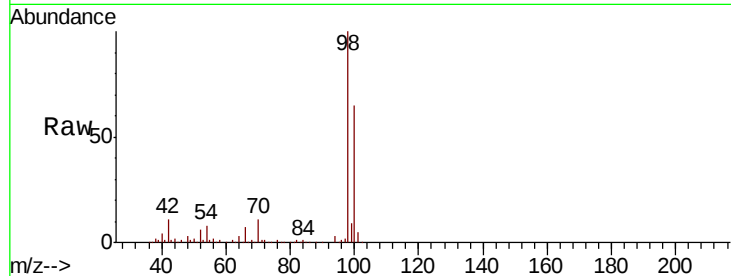
PB129725ZHE#04

Tot Ion: 98 Resp: 529697

Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.913 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062091.D

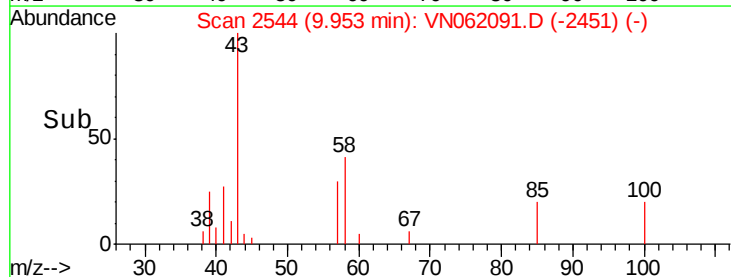
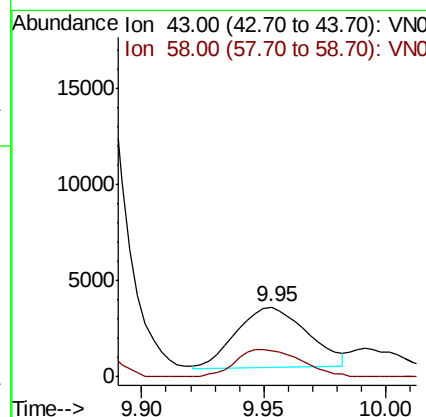
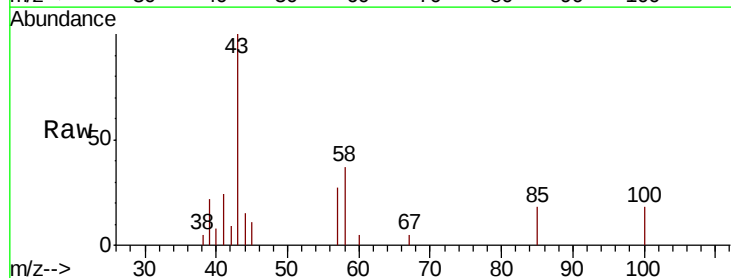
Acq: 25 Jun 2020 3:03

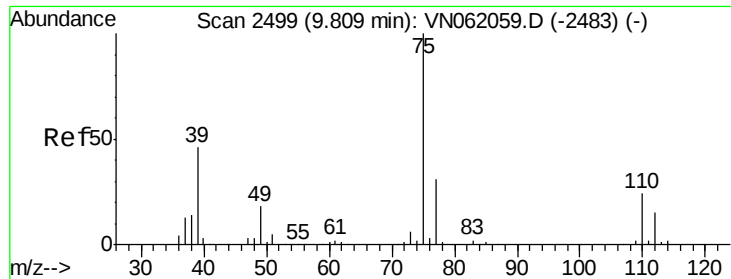
Tgt Ion: 43 Resp: 6292

Ion Ratio Lower Upper

43 100

58 42.7 34.2 51.2





#54

cis-1,3-Dichloropropene

Concen: 5.791 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB129725ZHE#04

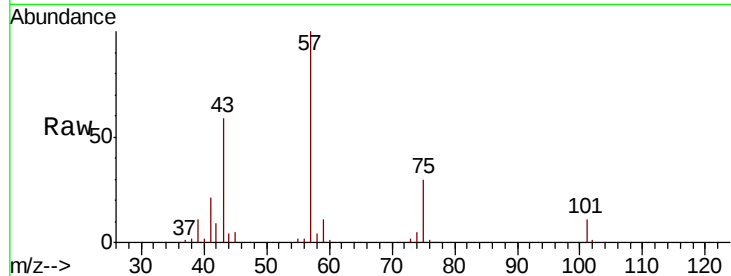
Tot Ion: 75 Resp: 29115

Ion Ratio Lower Upper

75 100

77 0.9 25.0 37.6#

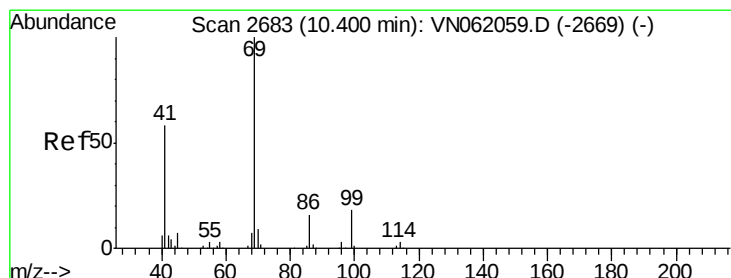
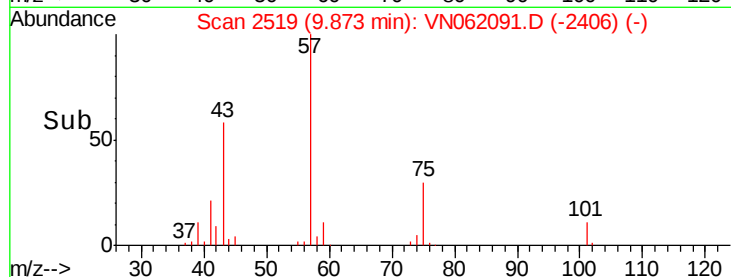
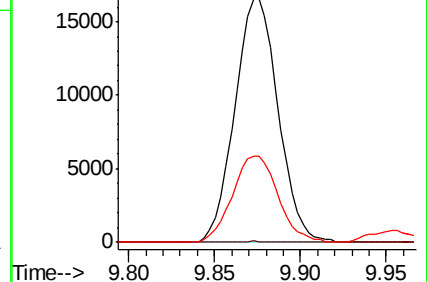
39 35.6 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062059.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062059.D (-2483) (-)



#56

Ethyl methacrylate

Concen: 0.351 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

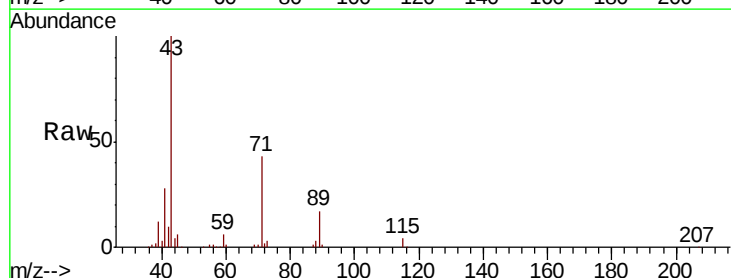
Tgt Ion: 69 Resp: 1428

Ion Ratio Lower Upper

69 100

41 4323.5 46.6 70.0#

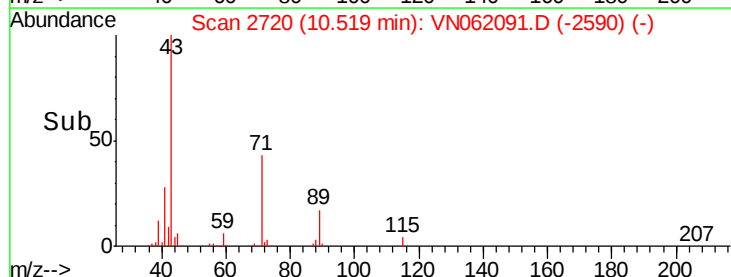
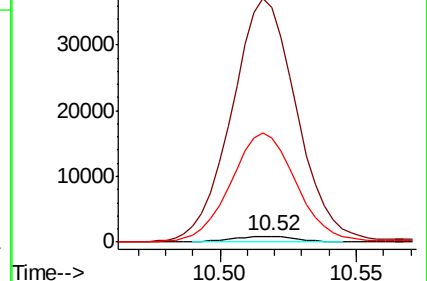
39 1971.0 31.0 46.4#

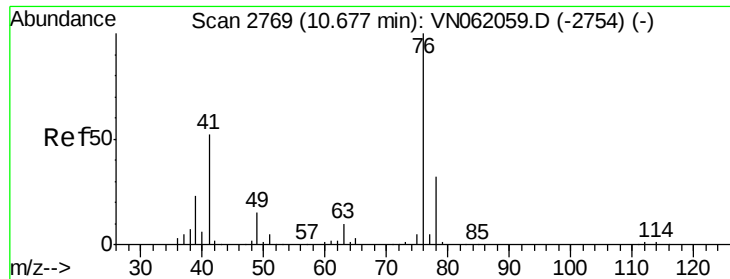


Abundance Ion 69.00 (68.70 to 69.70): VN062059.D (-2669) (-)

Ion 41.00 (40.70 to 41.70): VN062059.D (-2669) (-)

Ion 39.00 (38.70 to 39.70): VN062059.D (-2669) (-)





#57

1,3-Dichloropropane

Concen: 0.988 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

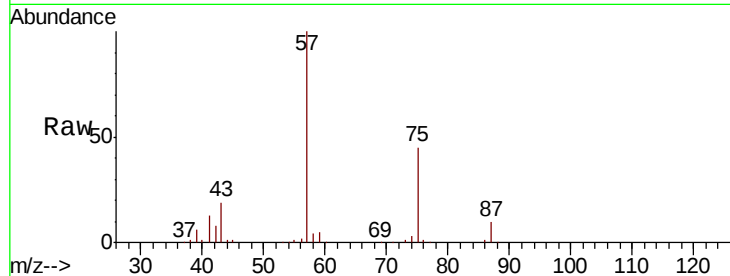
PB129725ZHE#04

Tot Ion: 76 Resp: 5185

Ion Ratio Lower Upper

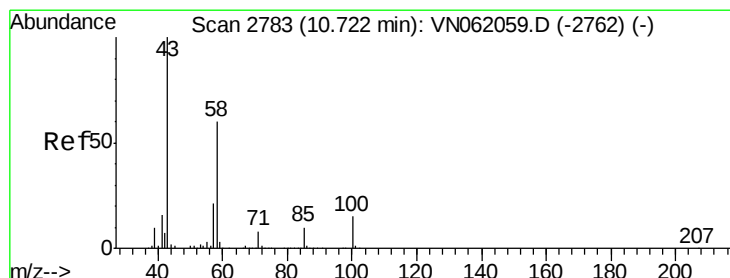
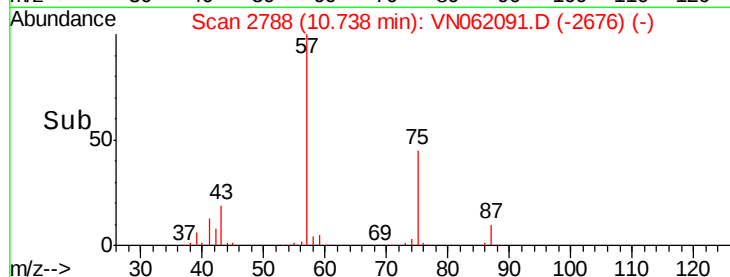
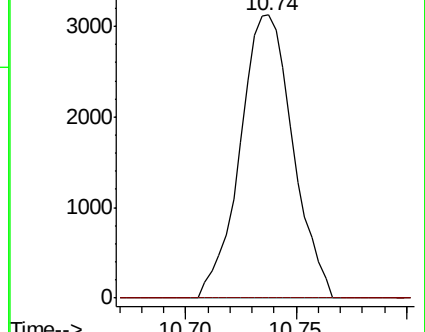
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062059.D (-2754) (-)

Ion 77.90 (77.60 to 78.60): VN062059.D (-2754) (-)



#59

2-Hexanone

Concen: 27.695 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062091.D

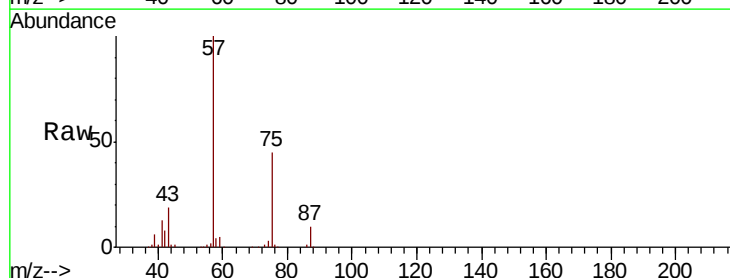
Acq: 25 Jun 2020 3:03

Tgt Ion: 43 Resp: 65767

Ion Ratio Lower Upper

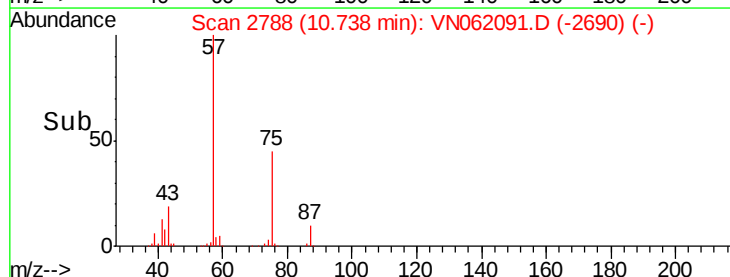
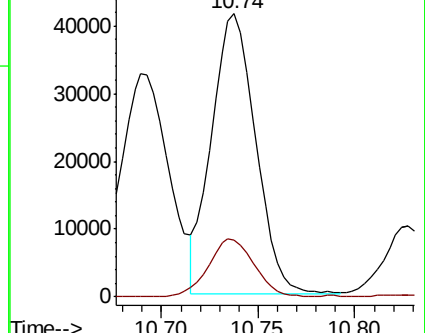
43 100

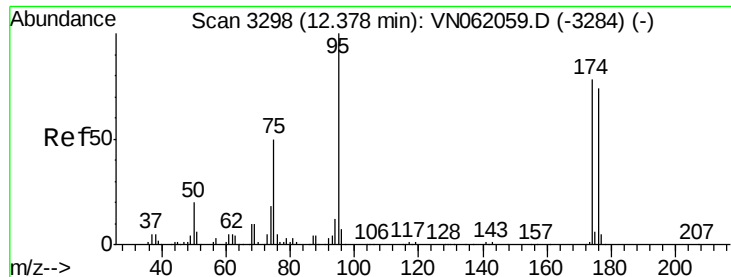
58 21.7 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2762) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-2762) (-)

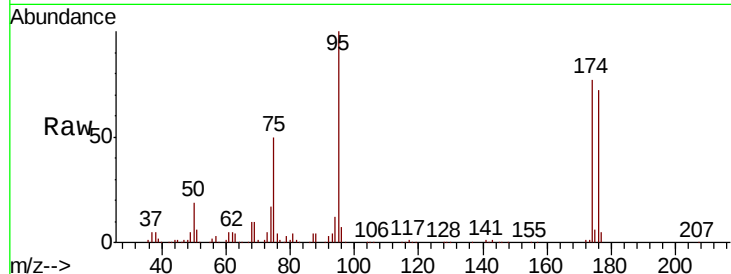




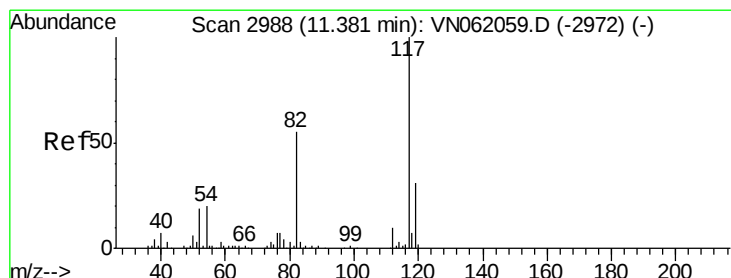
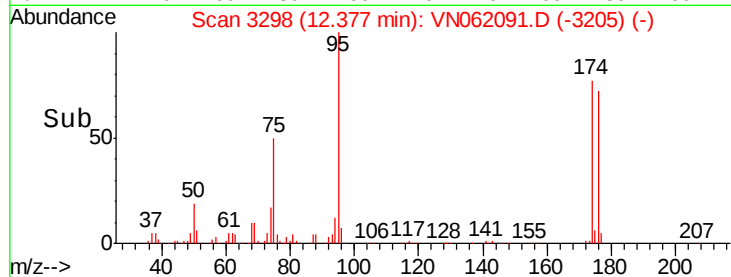
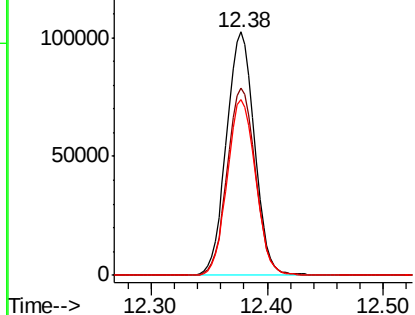
#62
4-Bromofluorobenzene
Concen: 47.551 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Instrument :
MSVOA_N
ClientSampleId :
PB129725ZHE#04

Tot Ion: 95 Resp: 170918
Ion Ratio Lower Upper
95 100
174 77.6 0.0 154.8
176 73.0 0.0 147.4

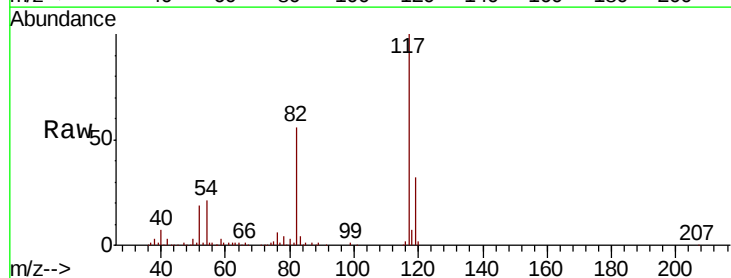


Abundance Ion 94.90 (94.60 to 95.60): VN062091.D (-3205) (-)
Ion 173.80 (173.50 to 174.50): VN062091.D (-3205) (-)
Ion 175.80 (175.50 to 176.50): VN062091.D (-3205) (-)

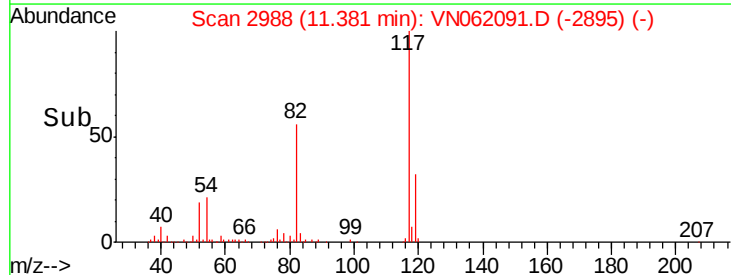
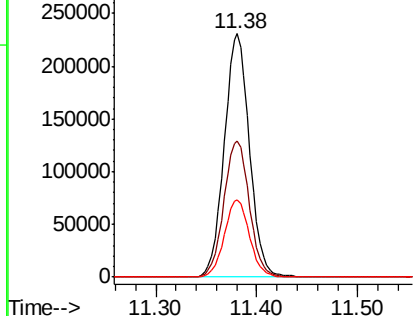


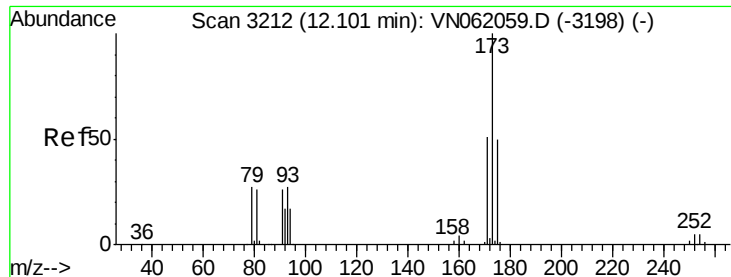
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Tgt Ion: 117 Resp: 402500
Ion Ratio Lower Upper
117 100
82 56.0 43.8 65.8
119 31.8 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062091.D (-2895) (-)
Ion 82.00 (81.70 to 82.70): VN062091.D (-2895) (-)
Ion 118.90 (118.60 to 119.60): VN062091.D (-2895) (-)





#71

Bromoform

Concen: 0.560 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062091.D

Acq: 25 Jun 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB129725ZHE#04

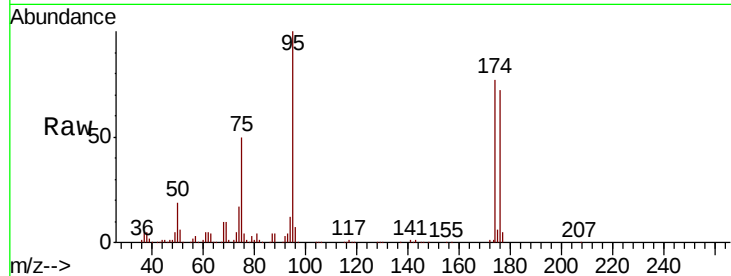
Tot Ion:173 Resp: 1216

Ion Ratio Lower Upper

173 100

175 691.3 24.7 74.1#

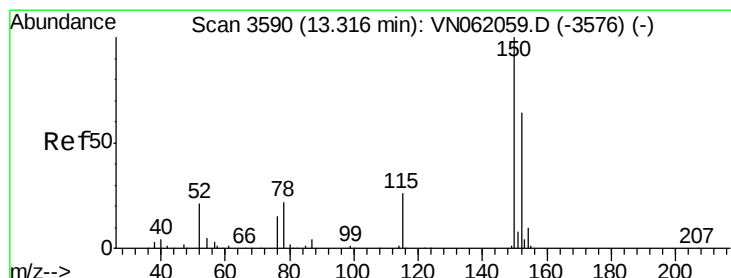
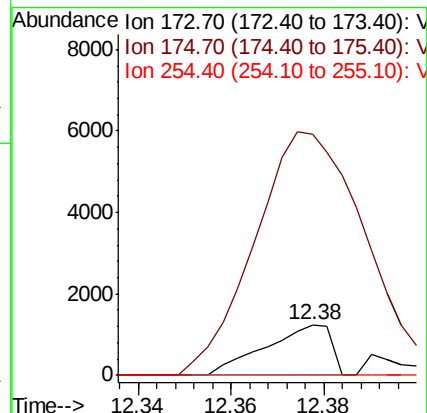
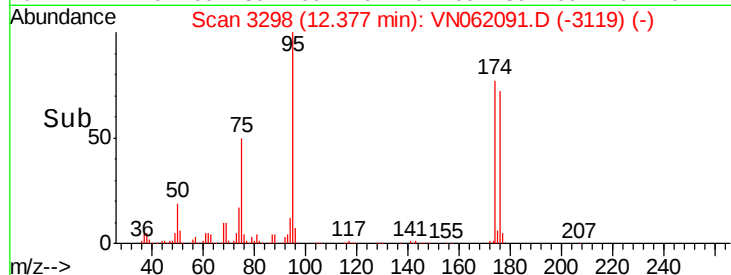
254 0.0 0.0 0.0



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: VN062091.D

Acq: 25 Jun 2020 3:03

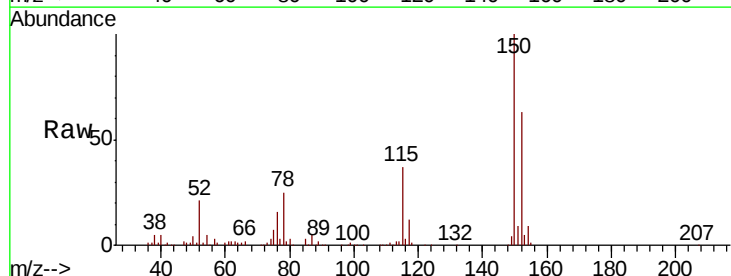
Tgt Ion:152 Resp: 147890

Ion Ratio Lower Upper

152 100

115 58.8 29.5 88.5

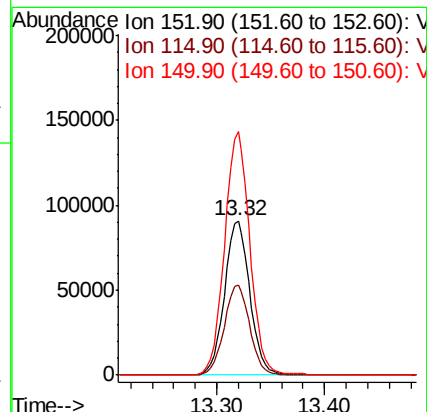
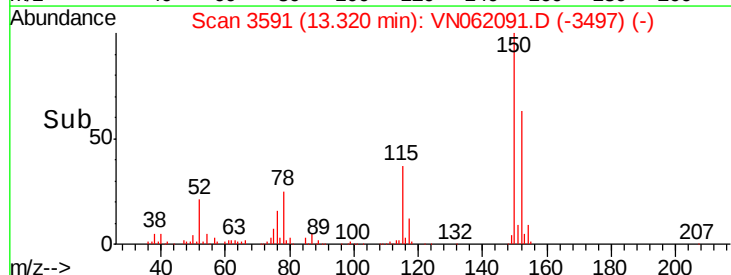
150 157.8 0.0 351.4

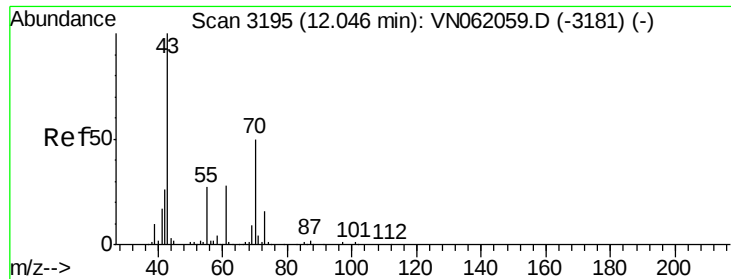


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

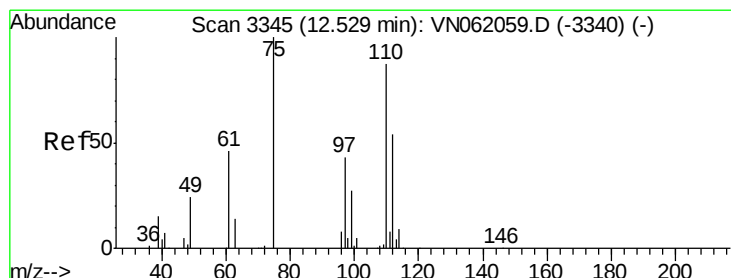
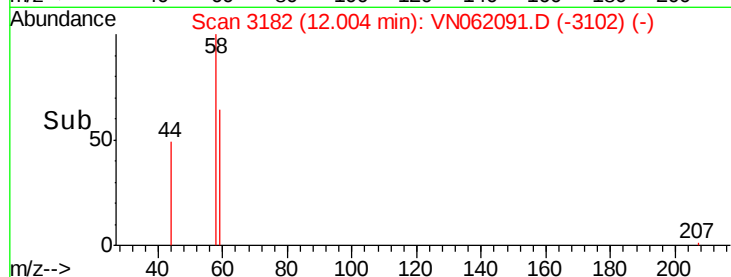
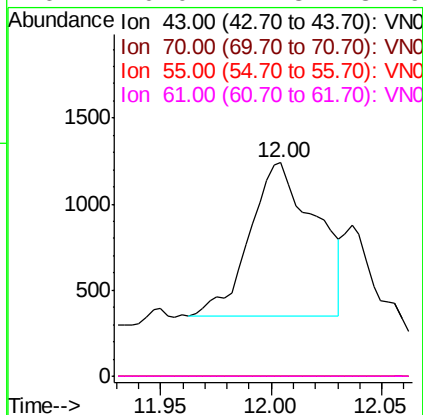
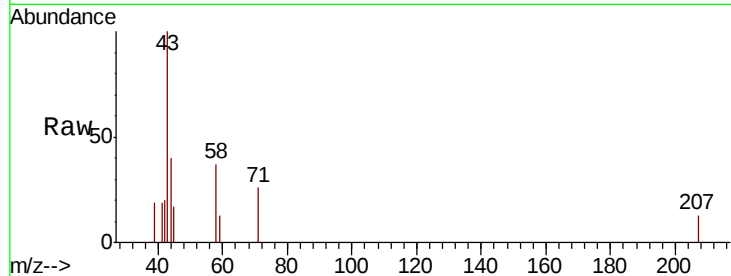




#74
N-amvl acetate
Concen: 3.751 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

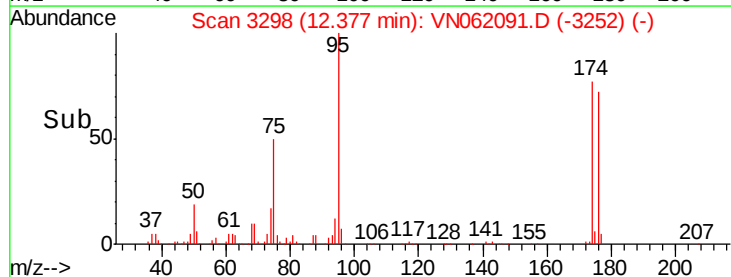
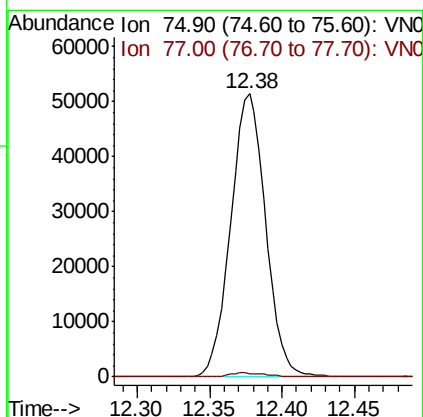
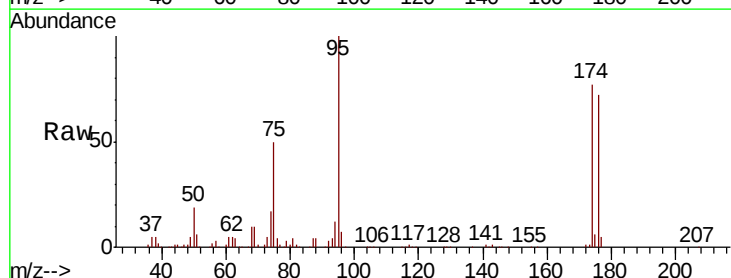
Instrument :
MSVOA_N
ClientSampleId :
PB129725ZHE#04

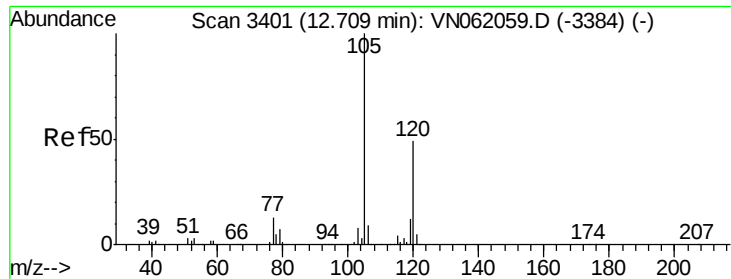
Tot Ion: 43 Resp: 1844
Ion Ratio Lower Upper
43 100
70 0.0 39.4 59.2#
55 0.0 21.7 32.5#
61 0.0 21.3 31.9#



#76
1,2,3-Trichloropropane
Concen: 24.660 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062091.D
Acq: 25 Jun 2020 3:03

Tgt Ion: 75 Resp: 85853
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

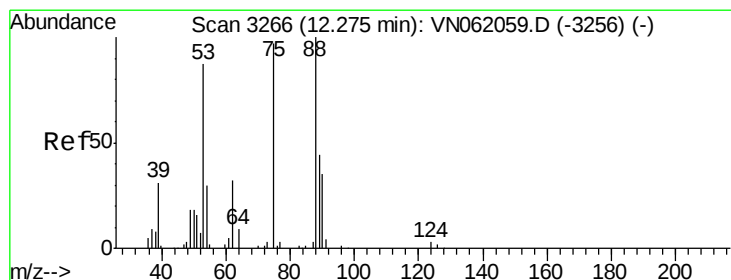
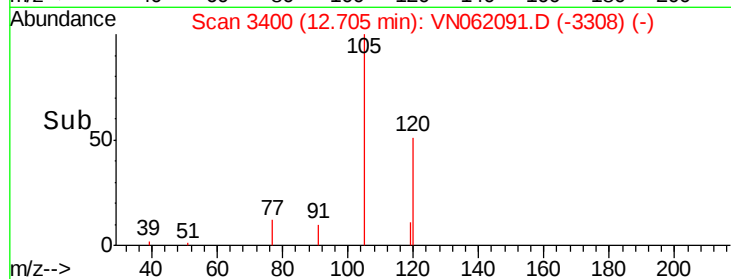
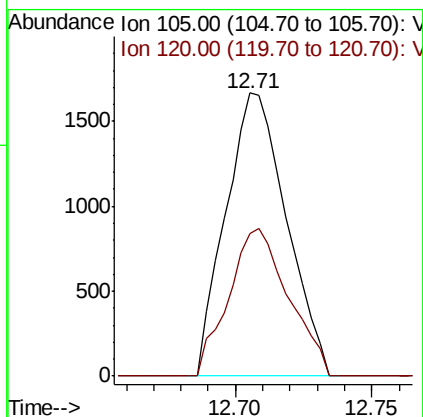
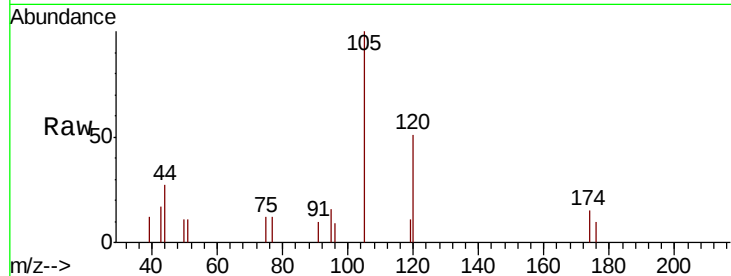




#80
 1,3,5-Trimethylbenzene
 Concen: 0.277 ug/l
 RT: 12.71 min Scan# 3400
 Delta R.T. -0.00 min
 Lab File: VN062091.D
 Acq: 25 Jun 2020 3:03

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129725ZHE#04

Tot Ion:105 Resp: 2574
 Ion Ratio Lower Upper
 105 100
 120 51.6 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.017 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062091.D
 Acq: 25 Jun 2020 3:03

Tgt Ion: 75 Resp: 85853
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#

