

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063460.D
 Acq On : 18 Sep 2020 16:13
 Operator : JC/MD
 Sample : PB131701ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131701ZHE#15

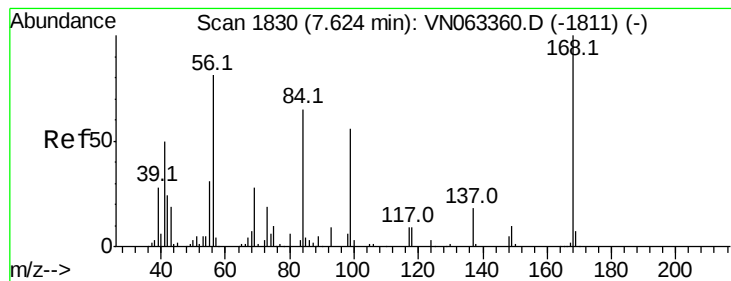
Quant Time: Sep 21 01:35:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	243666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	457822	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	457225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	202290	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	201534	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
35) Dibromofluoromethane	7.55	113	146526	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
50) Toluene-d8	10.06	98	590255	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	12.38	95	239471	54.81	ug/l	0.00
Spiked Amount			Recovery	=	109.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	775	1.349	ug/l #	72
16) Acetone	3.78	43	39065	29.305	ug/l	97
18) Methyl Acetate	4.28	43	3295	0.974	ug/l #	76
20) Methylene Chloride	4.51	84	21430	6.345	ug/l	96
25) 2-Butanone	6.80	43	4318	2.106	ug/l #	89
29) Tetrahydrofuran	7.16	42	614	0.438	ug/l #	53
31) Cyclohexane	7.63	56	6948	1.213	ug/l #	4
36) 1,1-Dichloropropene	7.63	75	22998	4.715	ug/l #	46
38) Carbon Tetrachloride	7.63	117	25787	5.179	ug/l #	17
43) Isopropyl Acetate	8.13	43	89138	10.414	ug/l	97
48) Methyl methacrylate	9.23	41	153212	36.432	ug/l #	48
49) 1,4-Dioxane	9.24	88	31	0.514	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	11354	2.369	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	37084	6.082	ug/l #	66
56) Ethyl methacrylate	10.52	69	1292	0.249	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6311	1.053	ug/l #	42
59) 2-Hexanone	10.74	43	101221	29.156	ug/l #	55
74) N-amyl acetate	12.01	43	5784	0.754	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	132896	26.542	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	5286	0.391	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	132896	72.769	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

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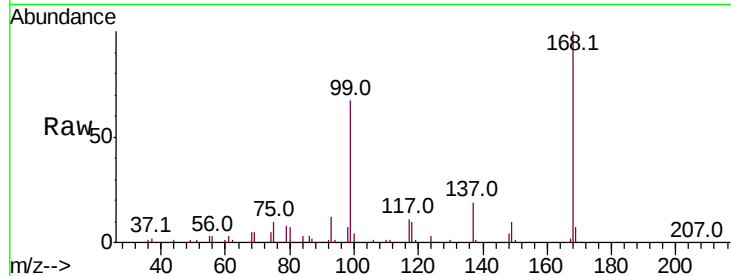
PB131701ZHE#15

Tot Ion:168 Resp: 243666

Ion Ratio Lower Upper

168 100

99 67.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

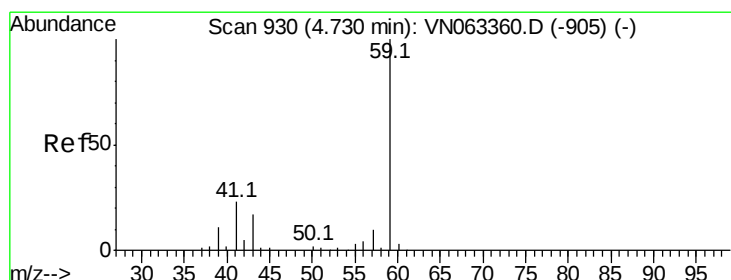
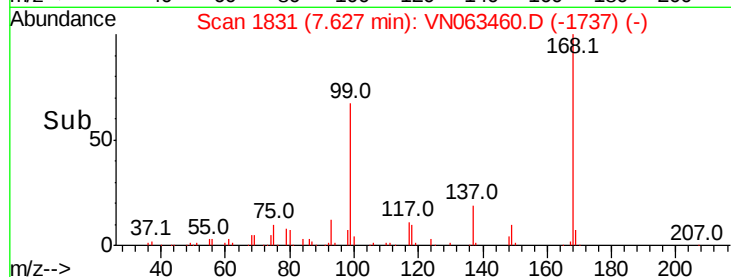
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.349 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063460.D

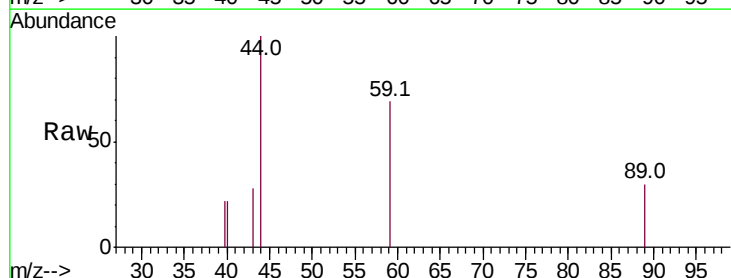
Acq: 18 Sep 2020 16:13

Tgt Ion: 59 Resp: 775

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

600

500

400

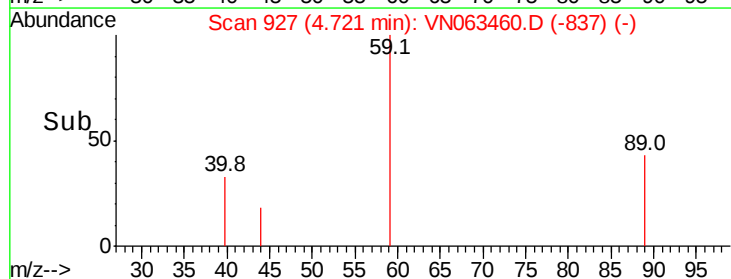
300

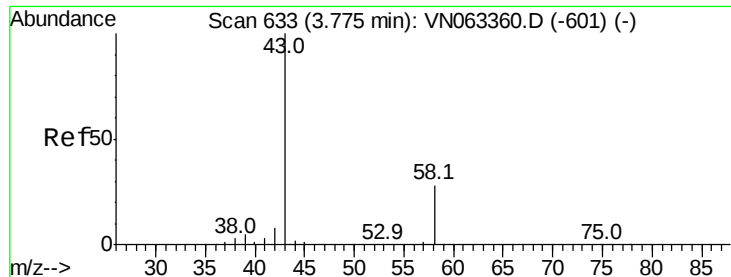
200

100

0

Time--> 4.70 4.72 4.74





#16

Acetone

Concen: 29.305 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

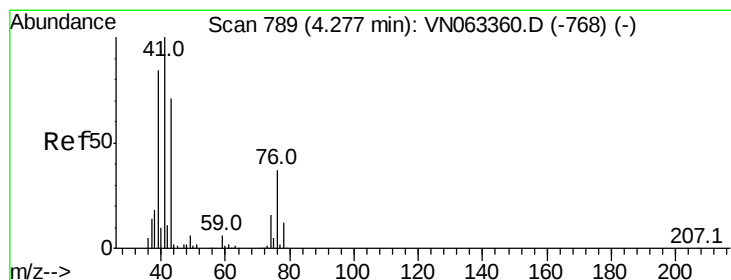
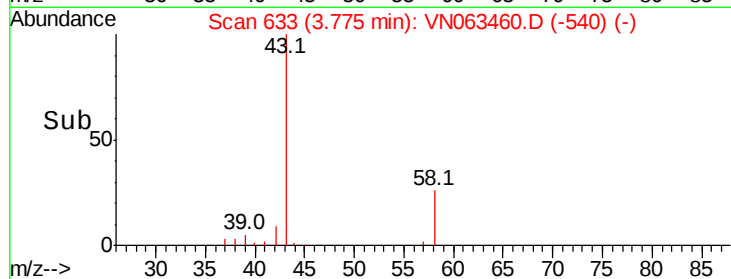
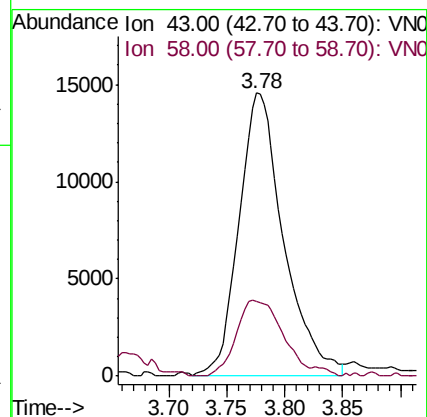
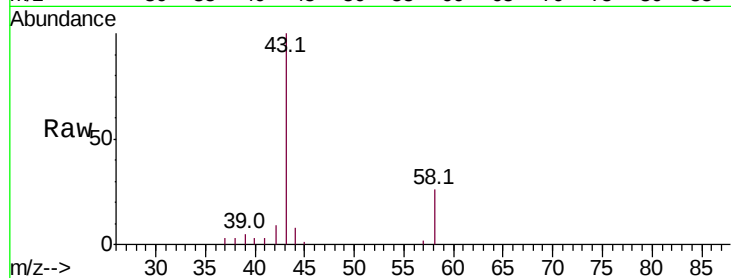
PB131701ZHE#15

Tot Ion: 43 Resp: 39065

Ion Ratio Lower Upper

43 100

58 26.5 22.3 33.5



#18

Methyl Acetate

Concen: 0.974 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063460.D

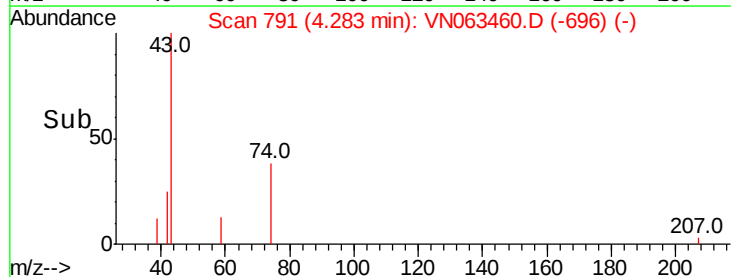
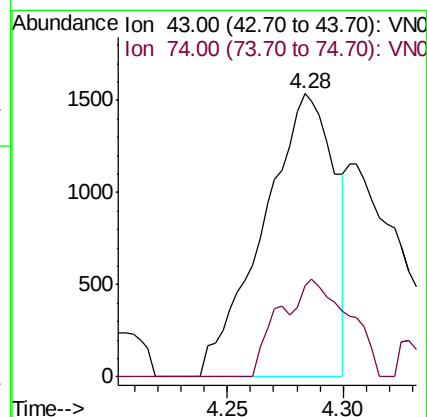
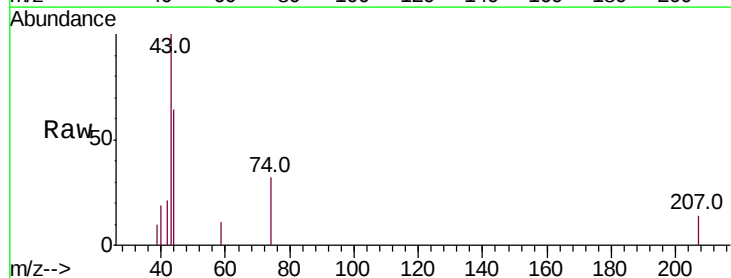
Acq: 18 Sep 2020 16:13

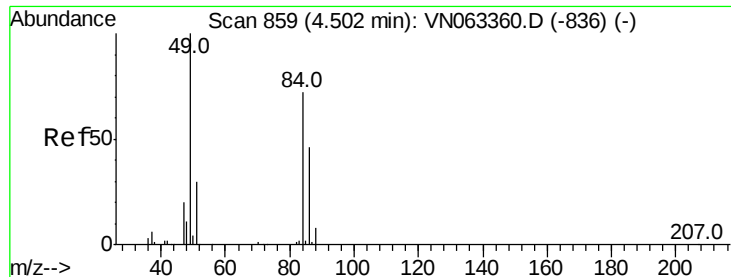
Tgt Ion: 43 Resp: 3295

Ion Ratio Lower Upper

43 100

74 33.4 17.4 26.2#

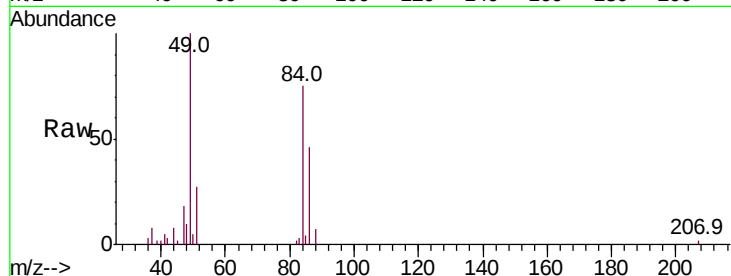




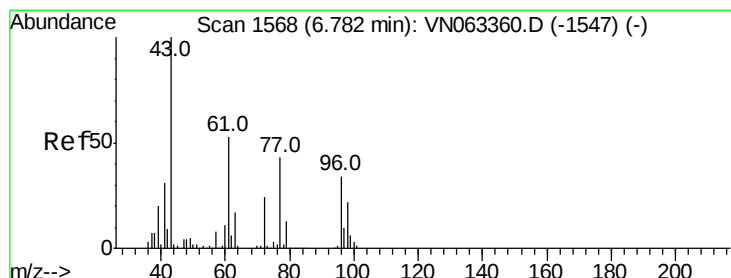
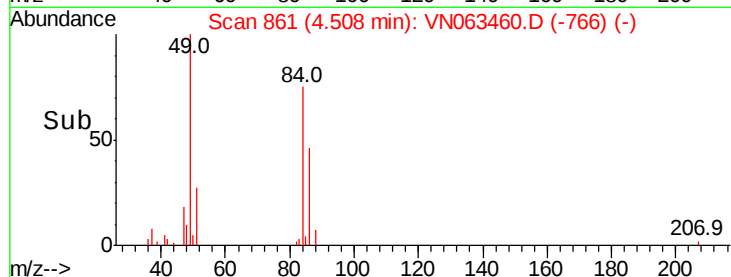
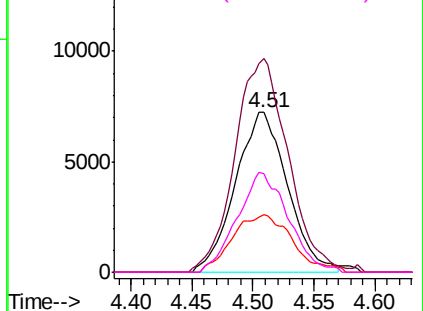
#20
Methvlene Chloride
Concen: 6.345 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063460.D
Acq: 18 Sep 2020 16:13

Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#15

Tot Ion:	84	Resp:	21430
Ion	Ratio	Lower	Upper
84	100		
49	133.7	110.7	166.1
51	36.1	32.9	49.3
86	61.6	51.1	76.7

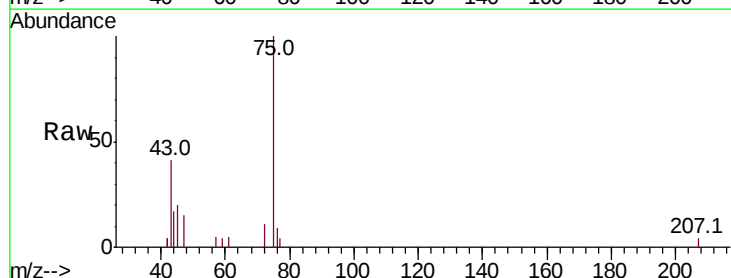


Abundance Ion 83.90 (83.60 to 84.60): VN0
15000 Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

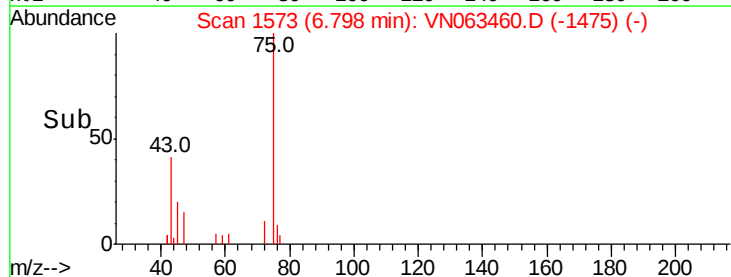
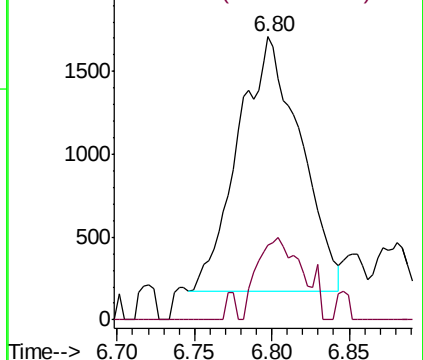


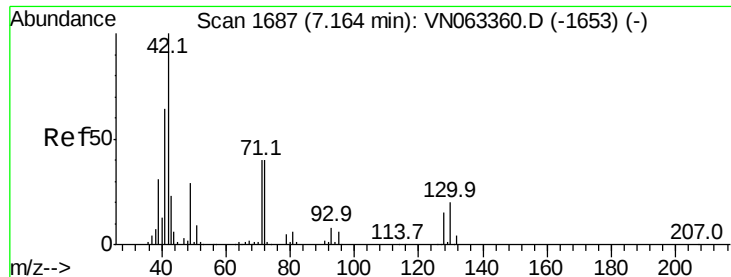
#25
2-Butanone
Concen: 2.106 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063460.D
Acq: 18 Sep 2020 16:13

Tgt Ion:	43	Resp:	4318
Ion	Ratio	Lower	Upper
43	100		
72	29.5	19.2	28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
2000 Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.438 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

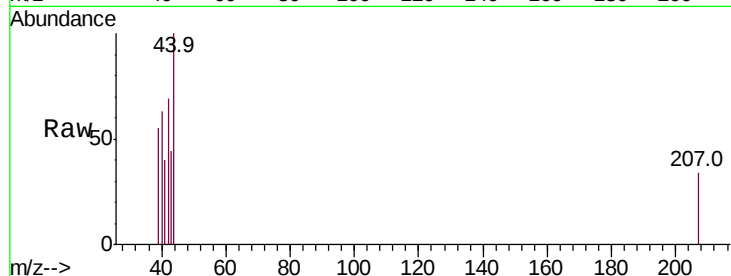
Tot Ion: 42 Resp: 614

Ion Ratio Lower Upper

42 100

72 21.7 32.1 48.1#

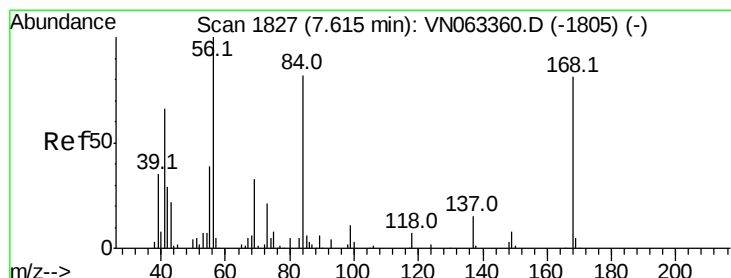
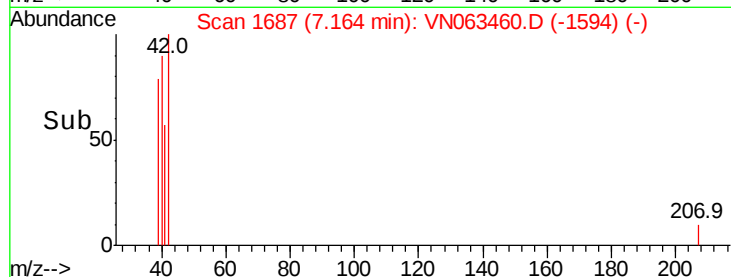
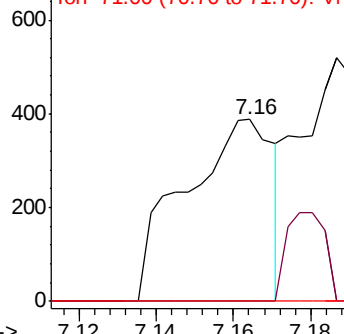
71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.213 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

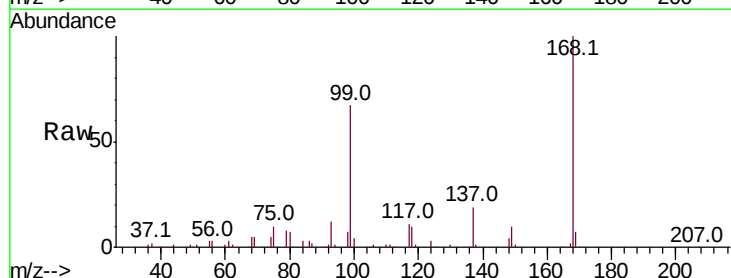
Tgt Ion: 56 Resp: 6948

Ion Ratio Lower Upper

56 100

69 182.6 26.1 39.1#

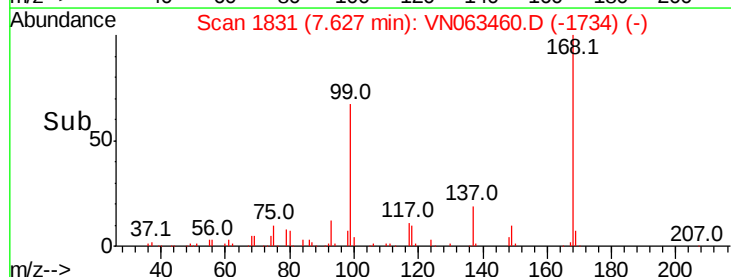
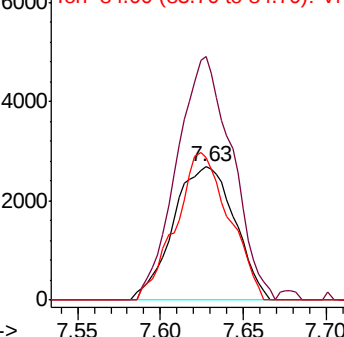
84 106.4 65.4 98.2#

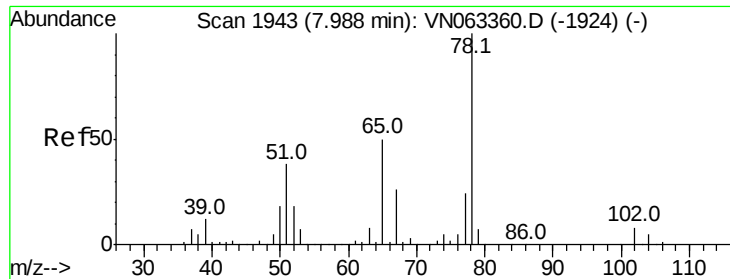


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

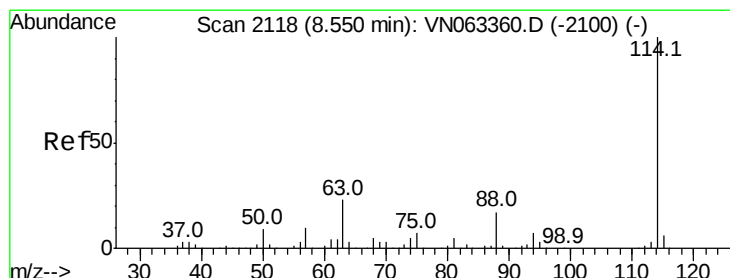
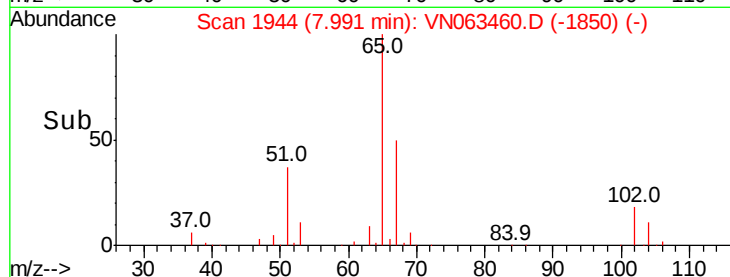
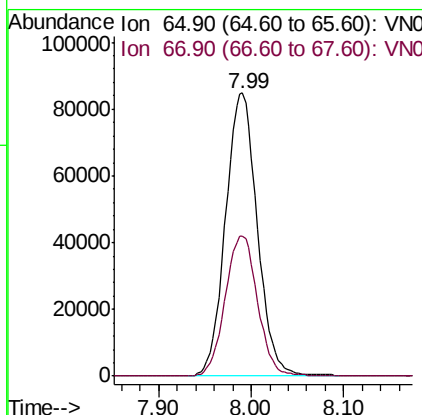
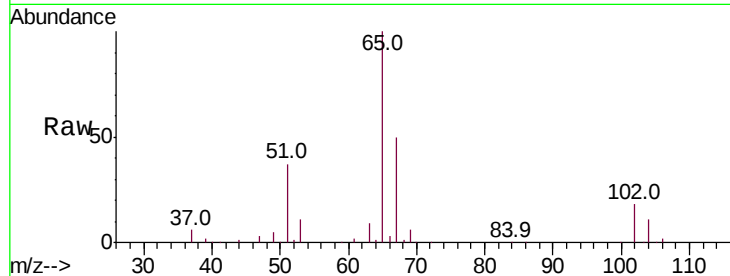




#33
 1,2-Dichloroethane-d4
 Concen: 48.588 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063460.D
 Acq: 18 Sep 2020 16:13

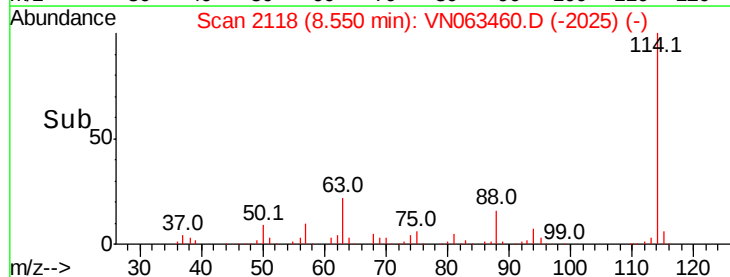
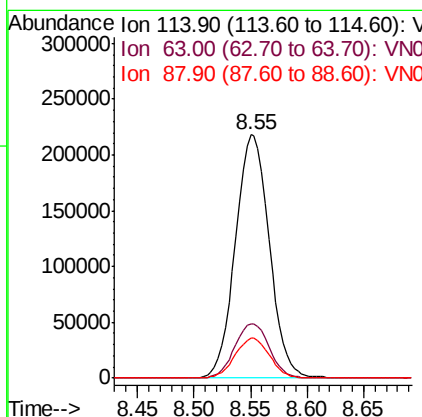
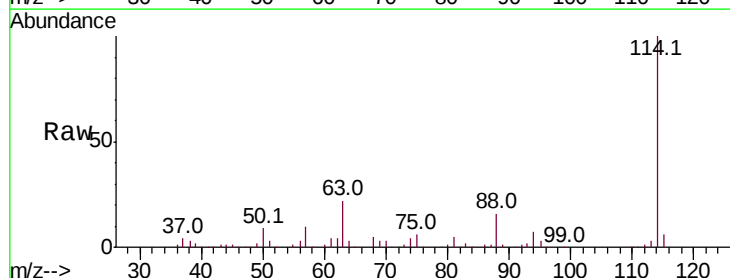
Instrument :
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 PB131701ZHE#15

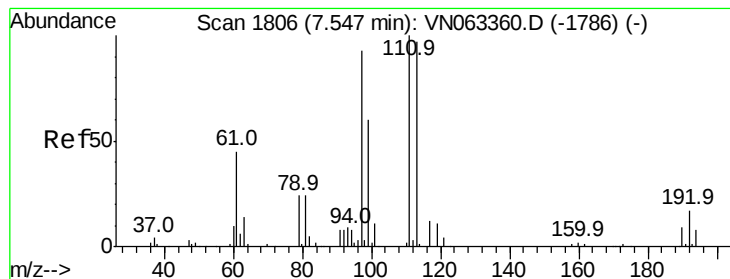
Tot Ion: 65 Resp: 201534
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063460.D
 Acq: 18 Sep 2020 16:13

Tgt Ion: 114 Resp: 457822
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 46.4
 88 16.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.231 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

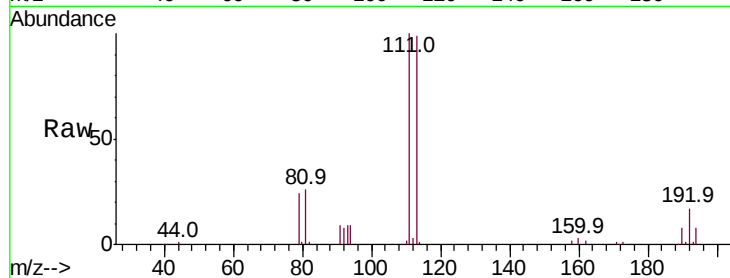
Tot Ion:113 Resp: 146526

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

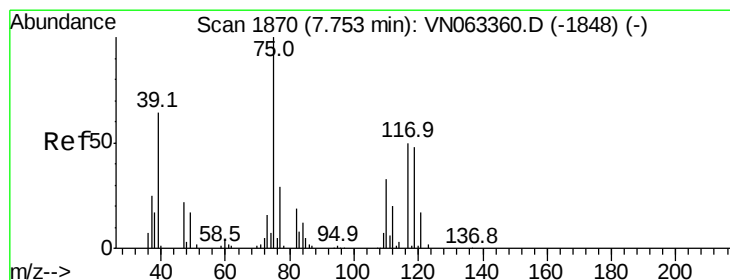
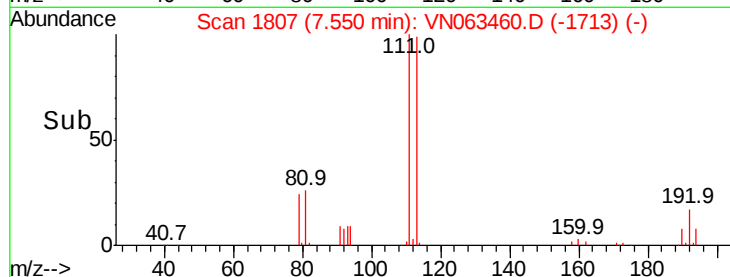
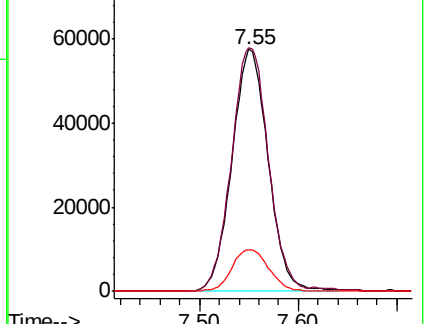
192 17.7 13.9 20.9



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: 4.715 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

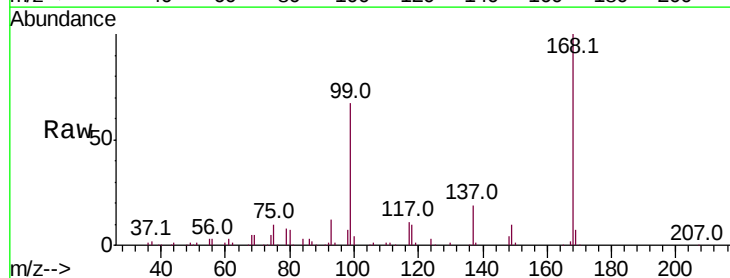
Tgt Ion: 75 Resp: 22998

Ion Ratio Lower Upper

75 100

110 4.0 16.5 49.5#

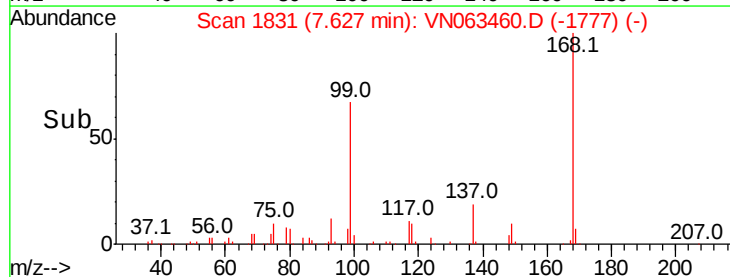
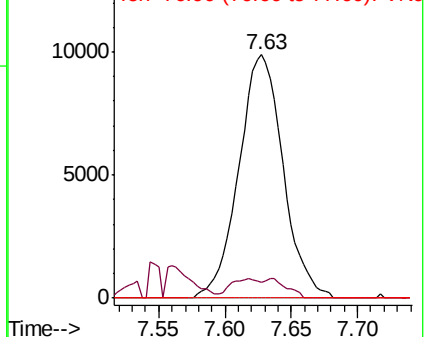
77 0.0 24.6 36.8#

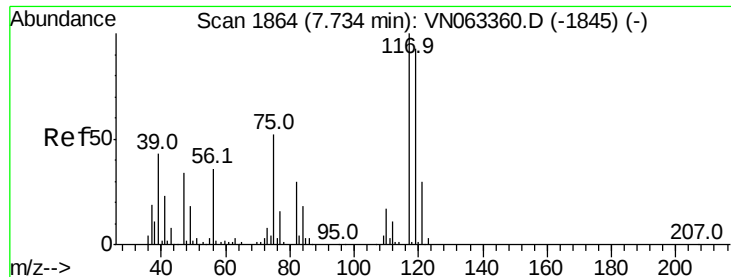


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.179 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

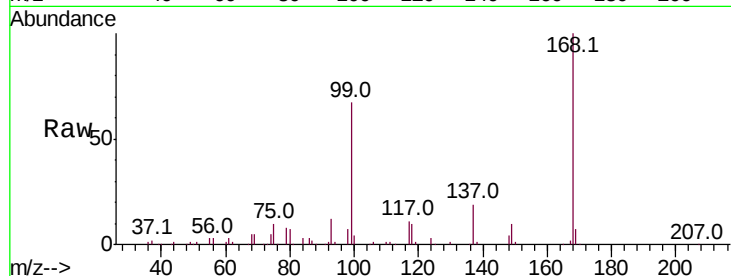
Tot Ion:117 Resp: 25787

Ion Ratio Lower Upper

117 100

119 4.7 74.5 111.7#

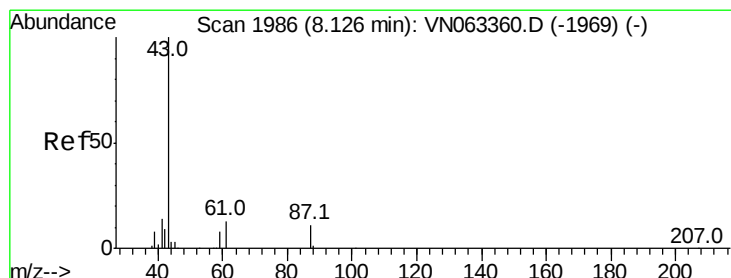
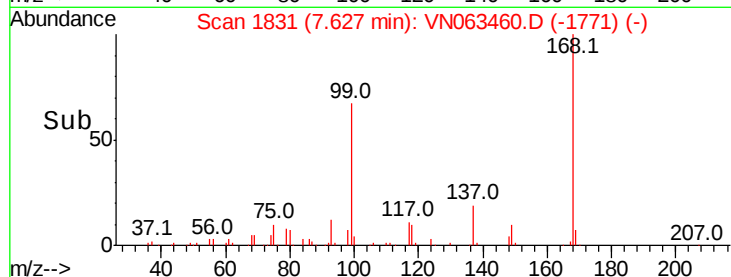
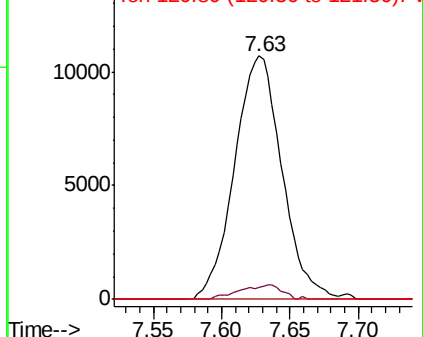
121 0.0 24.1 36.1#



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: 10.414 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

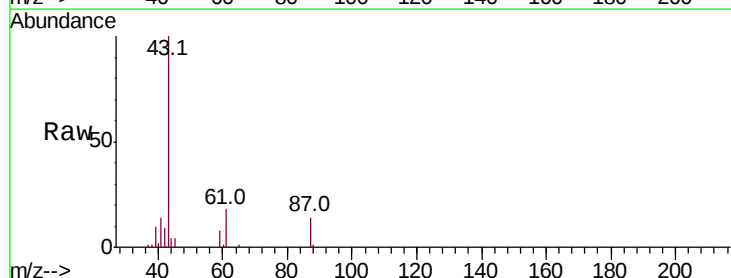
Tgt Ion: 43 Resp: 89138

Ion Ratio Lower Upper

43 100

61 19.0 14.2 21.2

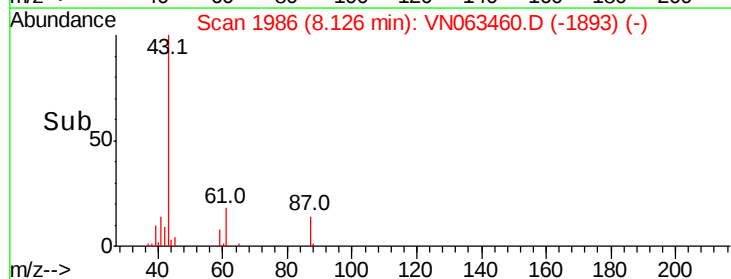
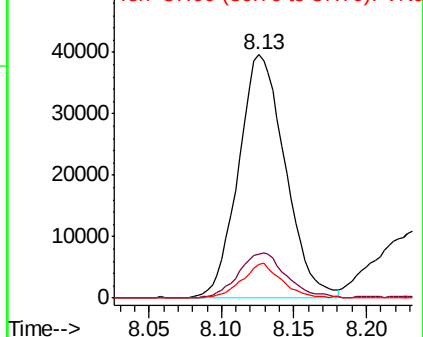
87 12.0 9.0 13.6

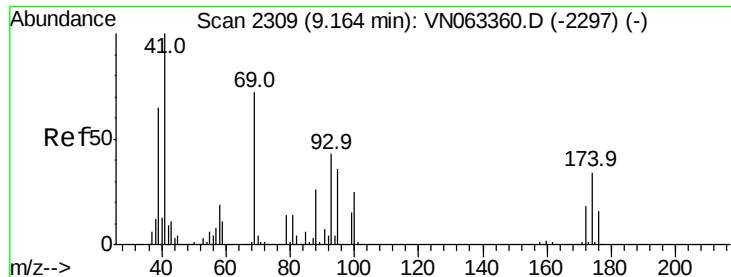


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

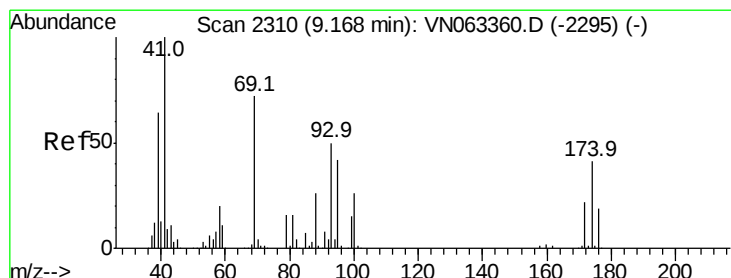
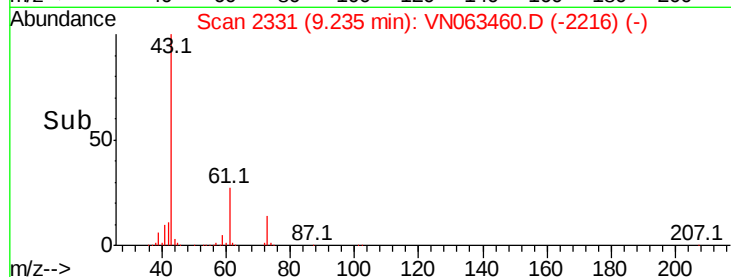
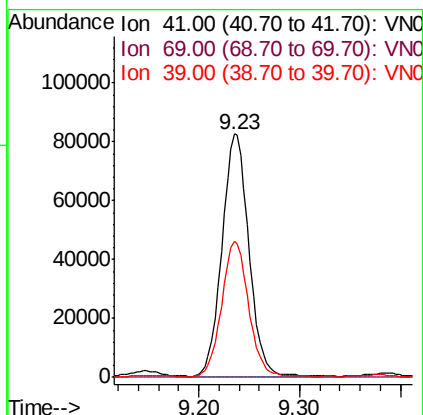
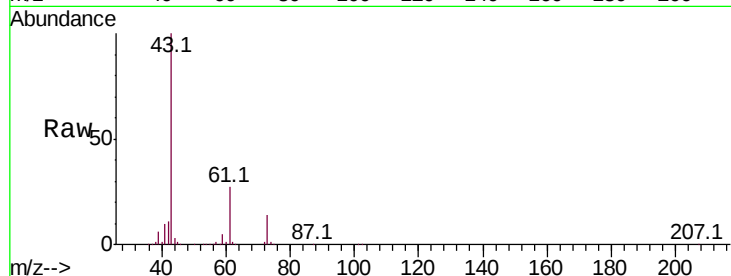




#48
Methyl methacrylate
Concen: 36.432 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063460.D
Acq: 18 Sep 2020 16:13

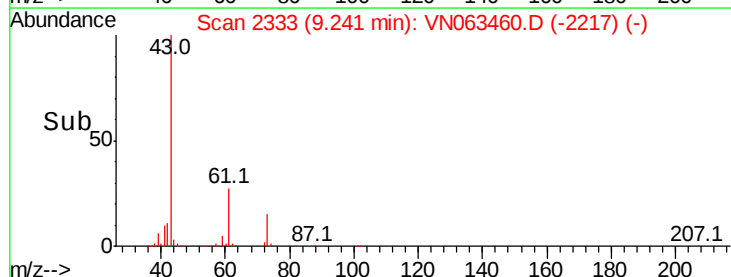
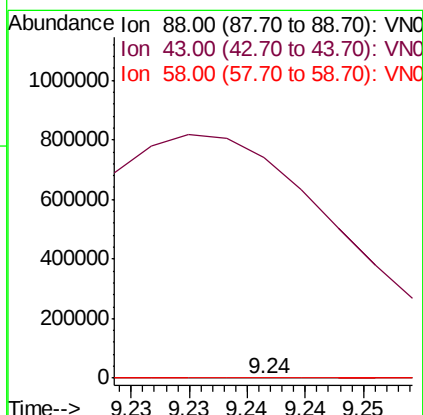
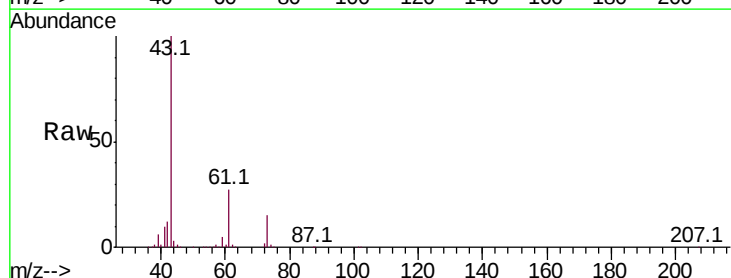
Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#15

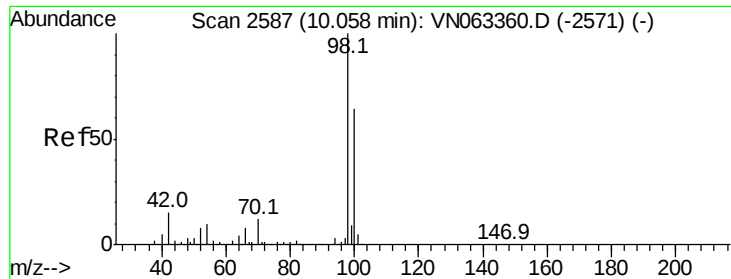
Tot Ion: 41 Resp: 153212
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 56.2 52.9 79.3



#49
1,4-Dioxane
Concen: 0.514 ug/l
RT: 9.24 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN063460.D
Acq: 18 Sep 2020 16:13

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 4901538.7 32.6 49.0#
58 20448.4 60.0 90.0#





#50

Toluene-d8

Concen: 49.528 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

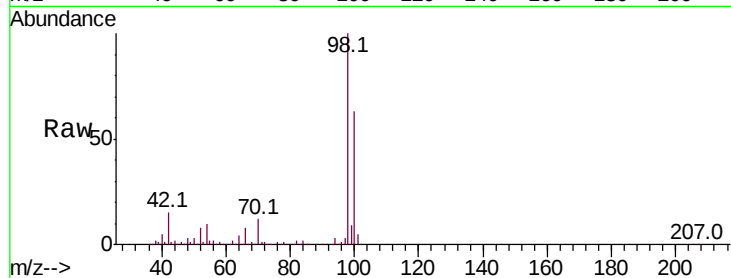
PB131701ZHE#15

Tot Ion: 98 Resp: 590255

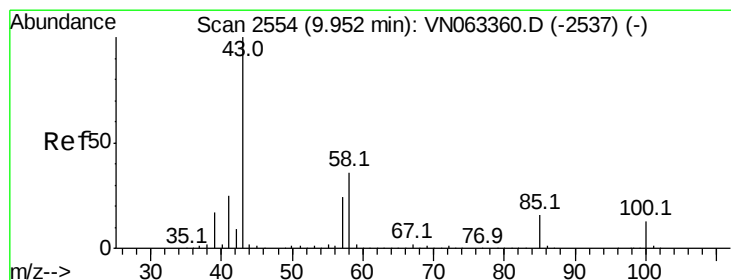
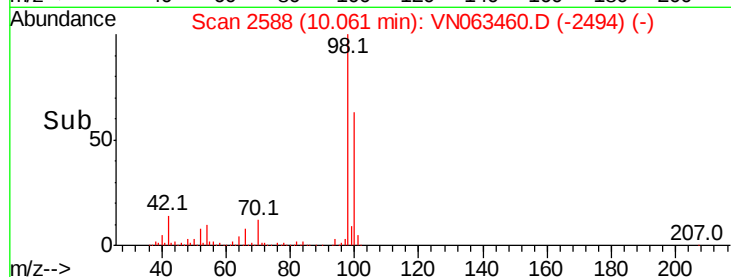
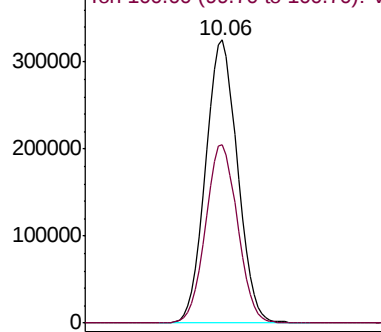
Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.369 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063460.D

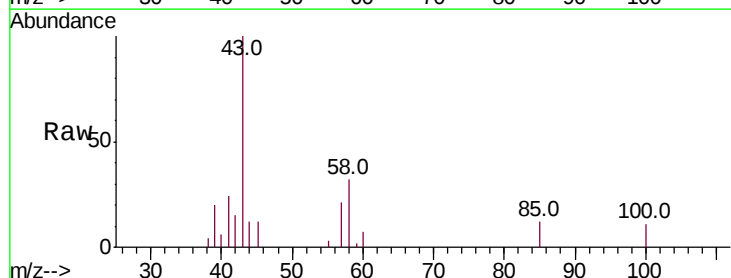
Acq: 18 Sep 2020 16:13

Tgt Ion: 43 Resp: 11354

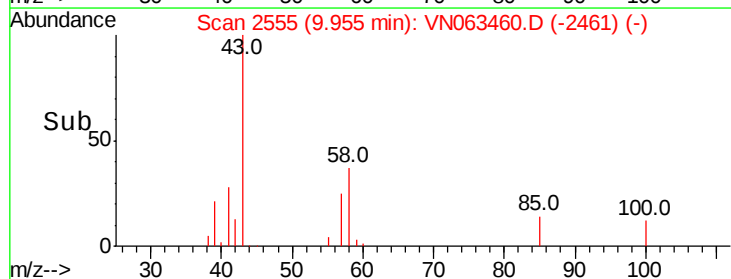
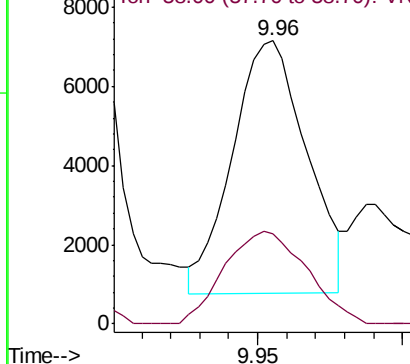
Ion Ratio Lower Upper

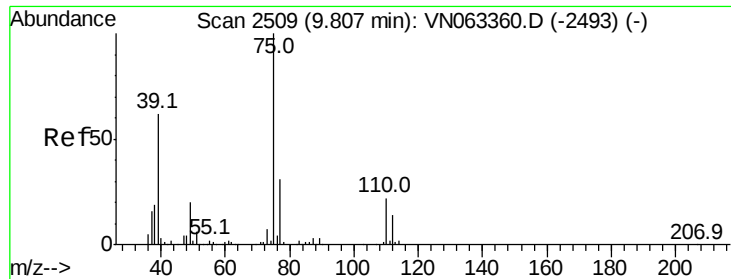
43 100

58 40.7 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.082 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

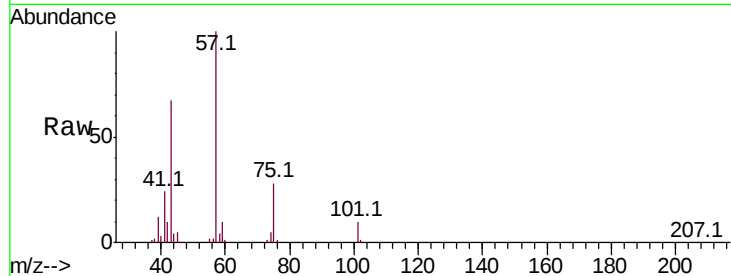
Tot Ion: 75 Resp: 37084

Ion Ratio Lower Upper

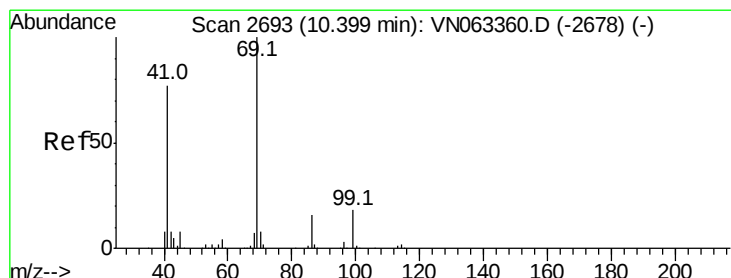
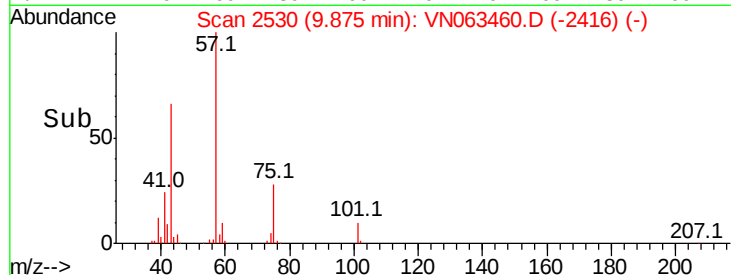
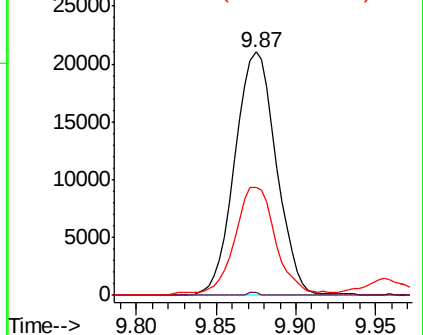
75 100

77 1.1 24.6 37.0#

39 43.4 49.8 74.8#



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: 0.249 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

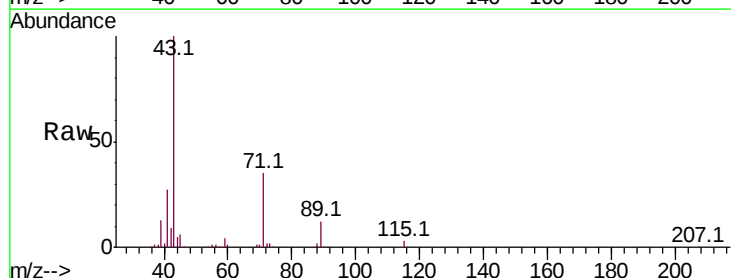
Tgt Ion: 69 Resp: 1292

Ion Ratio Lower Upper

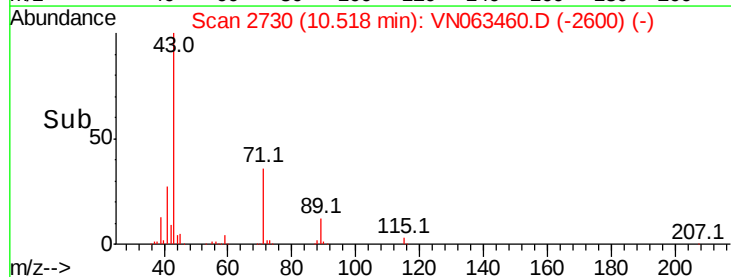
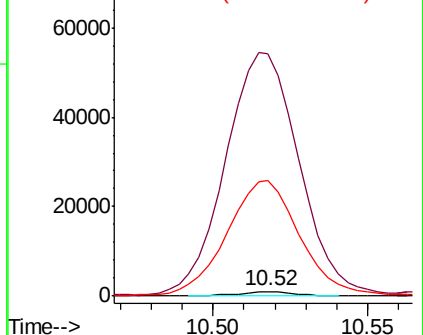
69 100

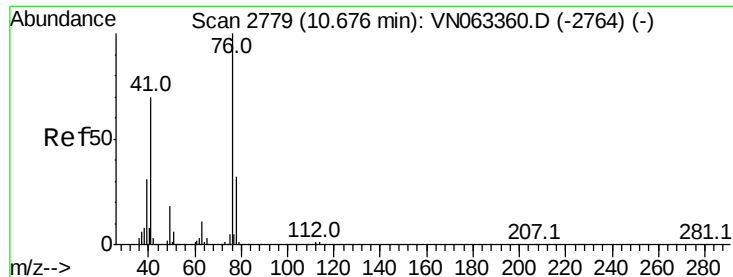
41 6934.3 61.0 91.6#

39 3307.6 39.2 58.8#



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: 1.053 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

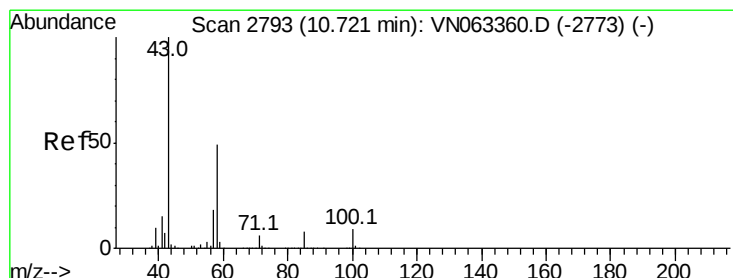
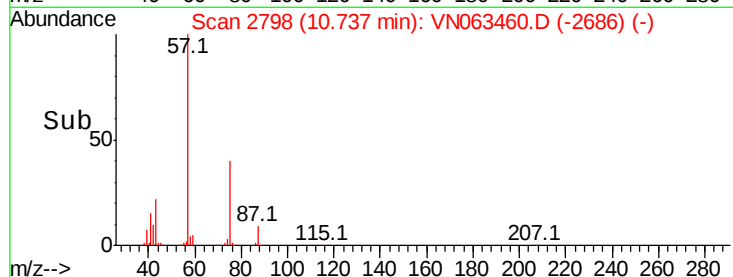
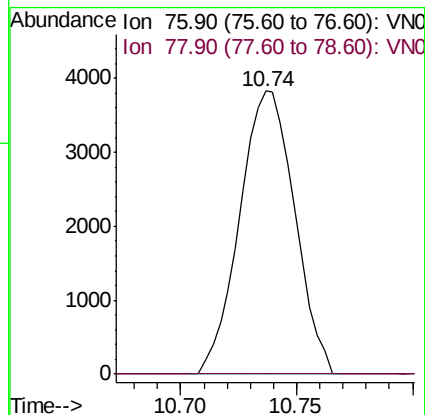
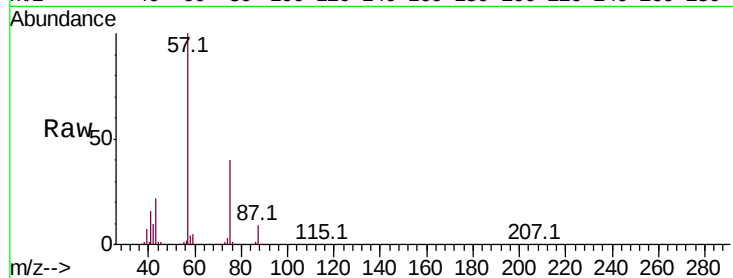
PB131701ZHE#15

Tot Ion: 76 Resp: 6311

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 29.156 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063460.D

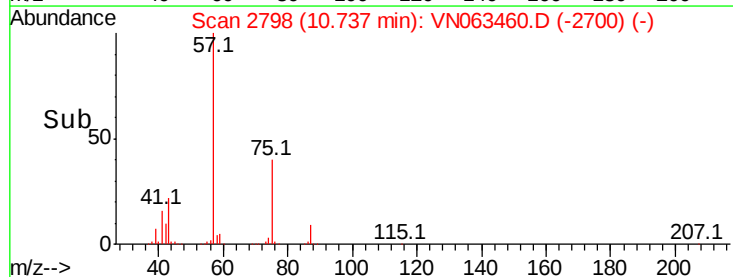
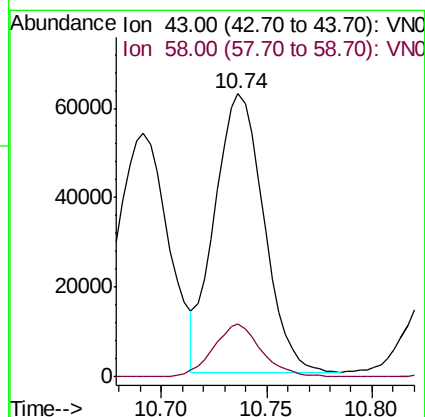
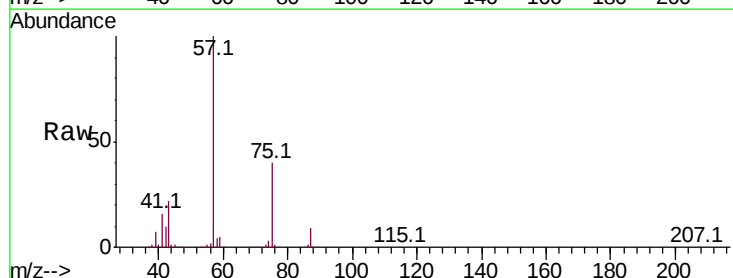
Acq: 18 Sep 2020 16:13

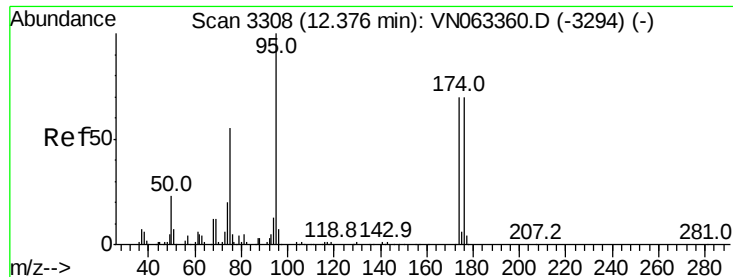
Tgt Ion: 43 Resp: 101221

Ion Ratio Lower Upper

43 100

58 18.5 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.814 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

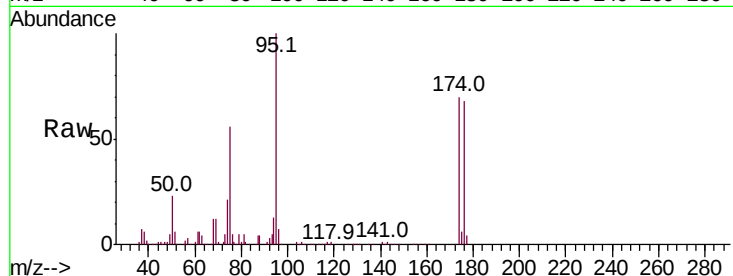
Tot Ion: 95 Resp: 239471

Ion Ratio Lower Upper

95 100

174 70.4 0.0 140.8

176 68.6 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)

12.38

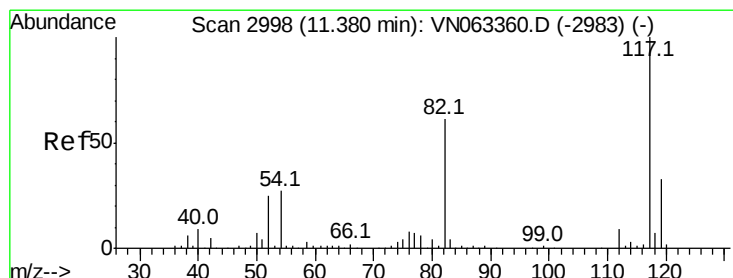
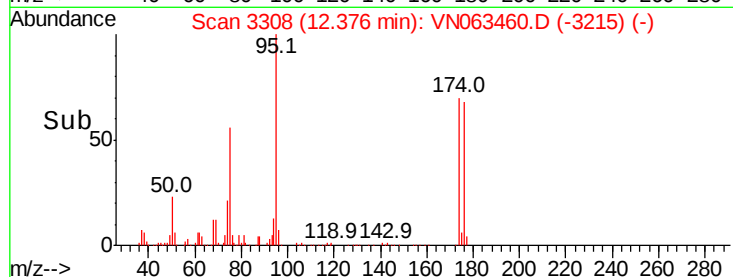
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

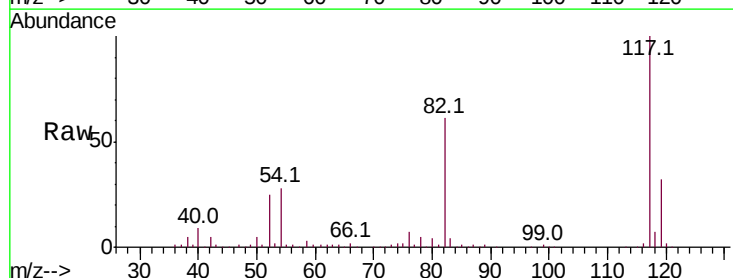
Tgt Ion: 117 Resp: 457225

Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

119 31.8 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)

11.38

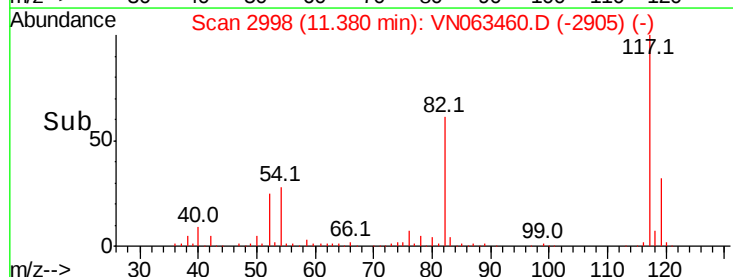
300000

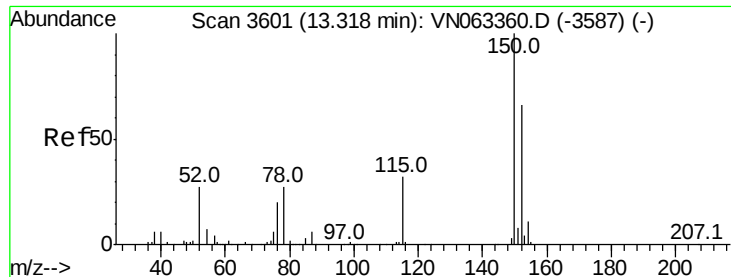
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

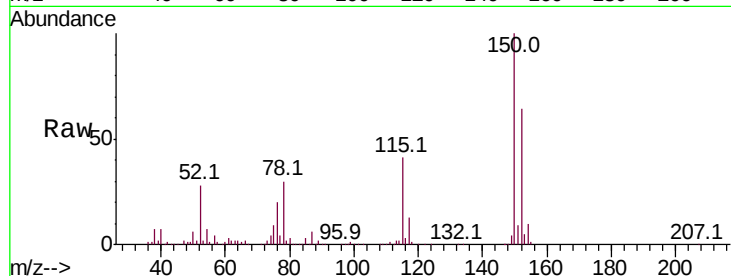
Tot Ion:152 Resp: 202290

Ion Ratio Lower Upper

152 100

115 63.1 32.2 96.6

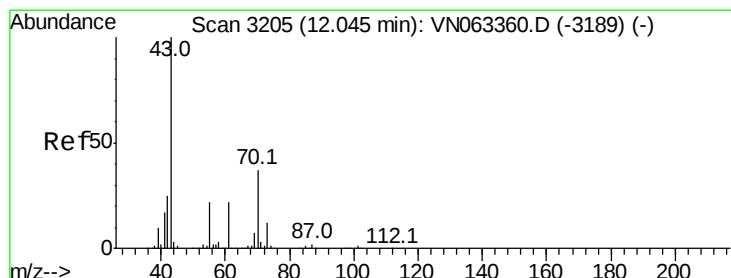
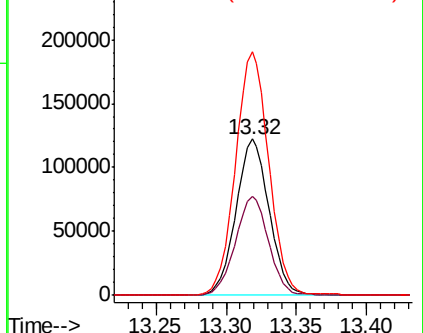
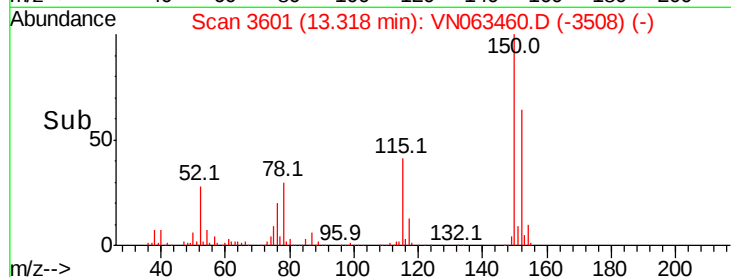
150 155.5 0.0 343.4



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-aryl acetate

Concen: 0.754 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Tgt Ion: 43 Resp: 5784

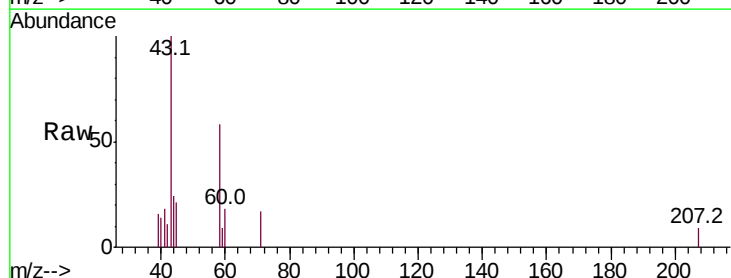
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 4.1 17.7 26.5#

61 0.0 17.4 26.2#

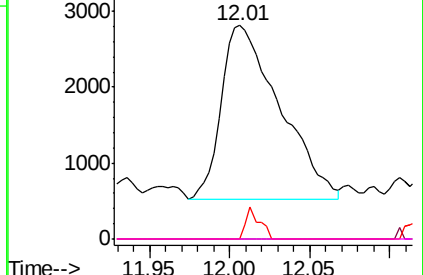
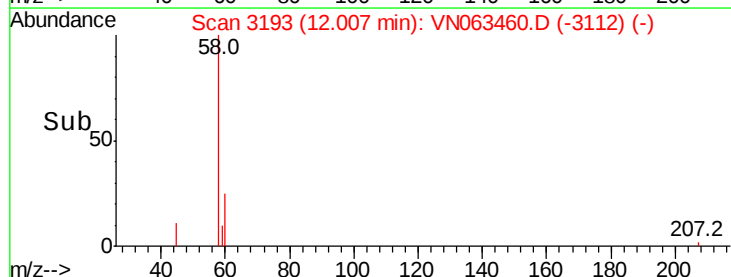


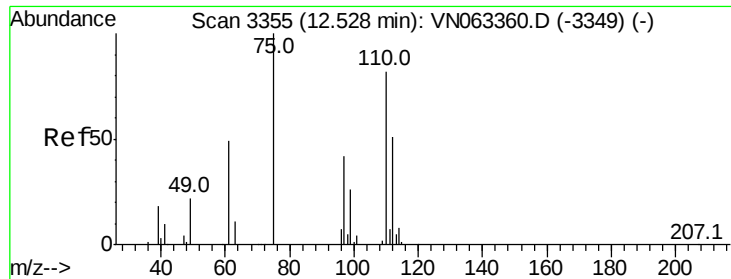
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

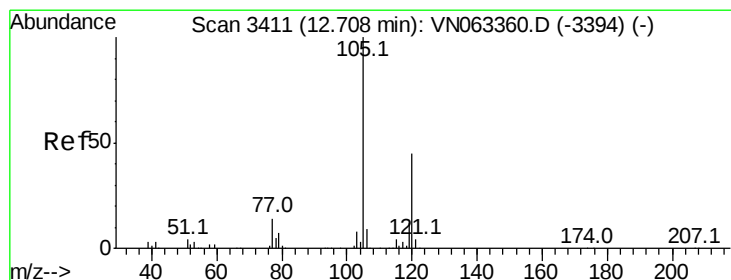
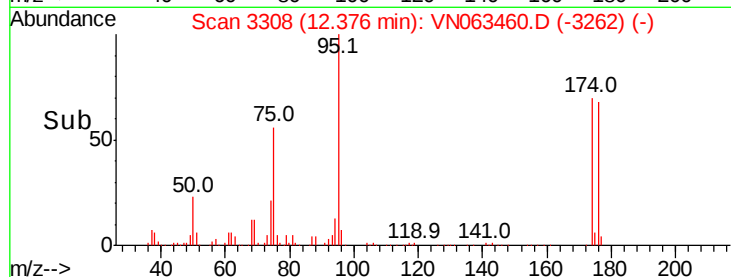
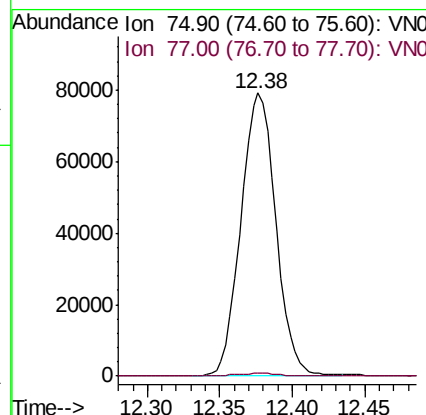
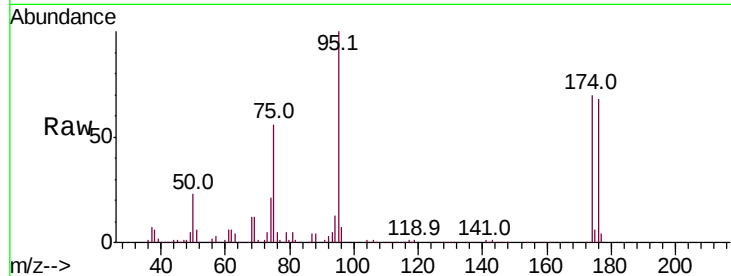




#76
 1,2,3-Trichloropropane
 Concen: 26.542 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063460.D
 Acq: 18 Sep 2020 16:13

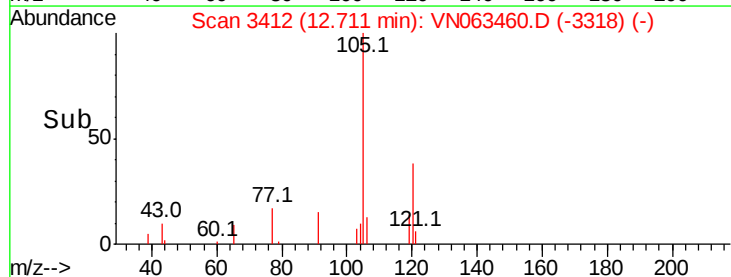
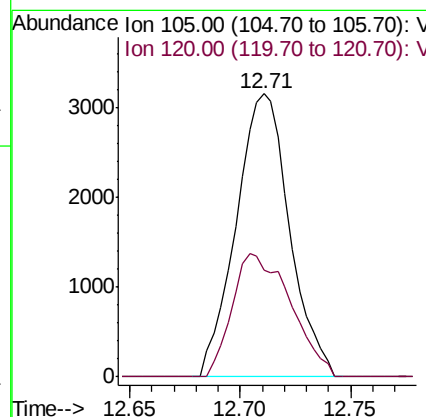
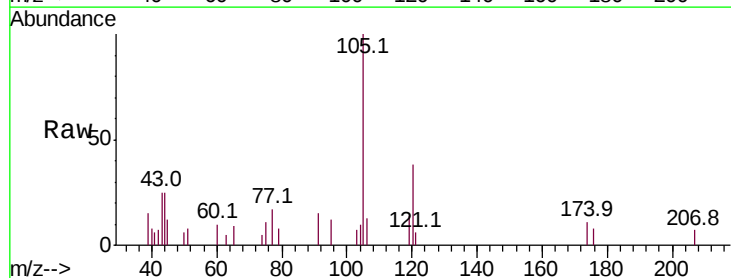
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131701ZHE#15

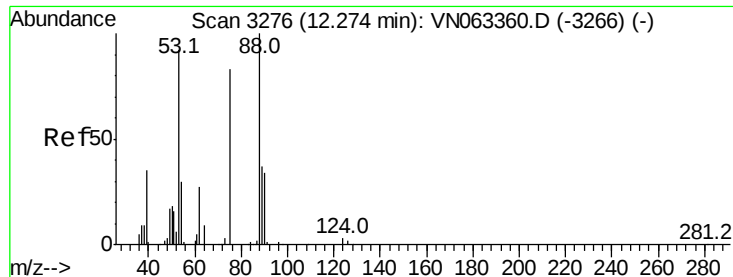
Tot Ion: 75 Resp: 132896
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.391 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063460.D
 Acq: 18 Sep 2020 16:13

Tgt Ion:105 Resp: 5286
 Ion Ratio Lower Upper
 105 100
 120 47.6 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 72.769 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063460.D

Acq: 18 Sep 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#15

Tot Ion: 75 Resp: 132896

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

