

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063456.D
 Acq On : 18 Sep 2020 14:38
 Operator : JC/MD
 Sample : PB131701ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131701ZHE#11

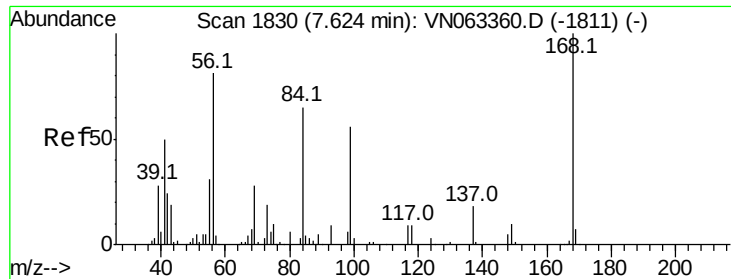
Quant Time: Sep 21 01:34:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	247881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	459636	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	466446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	202689	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	199673	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
35) Dibromofluoromethane	7.55	113	147450	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	
50) Toluene-d8	10.06	98	591564	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	12.38	95	240450	54.82	ug/l	0.00
Spiked Amount			Recovery	=	109.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	316	0.541	ug/l #	72
16) Acetone	3.78	43	32347	23.853	ug/l	98
18) Methyl Acetate	4.28	43	5215	1.515	ug/l #	75
20) Methylene Chloride	4.51	84	11458	3.335	ug/l	94
25) 2-Butanone	6.80	43	3994	1.915	ug/l #	90
29) Tetrahydrofuran	7.17	42	1203	0.845	ug/l #	64
31) Cyclohexane	7.62	56	7124	1.222	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	23181	4.734	ug/l #	46
38) Carbon Tetrachloride	7.63	117	26942	5.390	ug/l #	17
43) Isopropyl Acetate	8.13	43	100686	11.716	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1928	0.506	ug/l #	43
48) Methyl methacrylate	9.14	41	6084	1.441	ug/l #	15
49) 1,4-Dioxane	9.23	88	233	3.846	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	13114	2.726	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	41313	6.749	ug/l #	63
56) Ethyl methacrylate	10.52	69	1892	0.363	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6748	1.121	ug/l #	42
59) 2-Hexanone	10.74	43	111386	31.958	ug/l #	54
74) N-amyl acetate	12.01	43	3306	0.430	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	134700	26.850	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4294	0.317	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	134700	73.611	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

Lab File: VN063456.D

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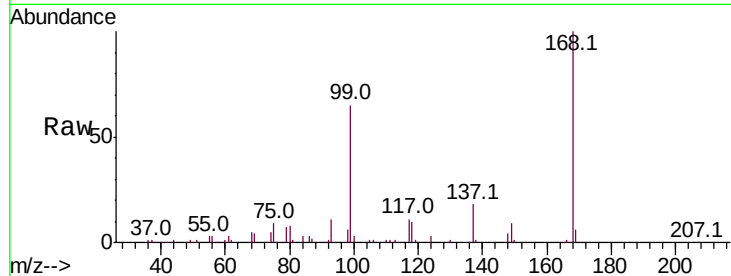
PB131701ZHE#11

Tot Ion:168 Resp: 247881

Ion Ratio Lower Upper

168 100

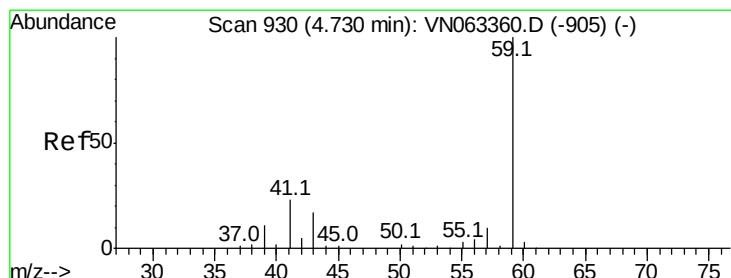
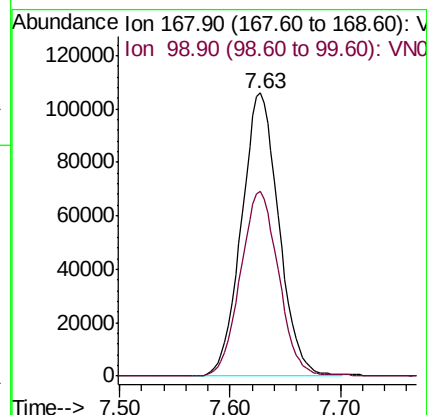
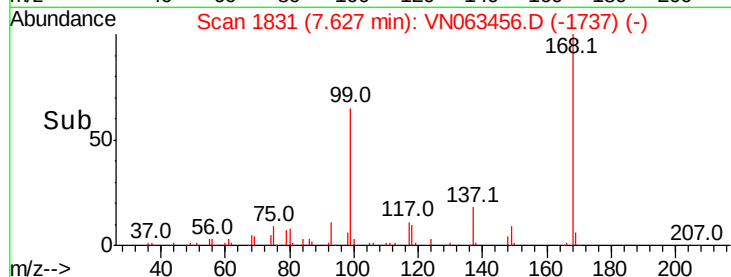
99 65.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63



#11

Tert butyl alcohol

Concen: 0.541 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063456.D

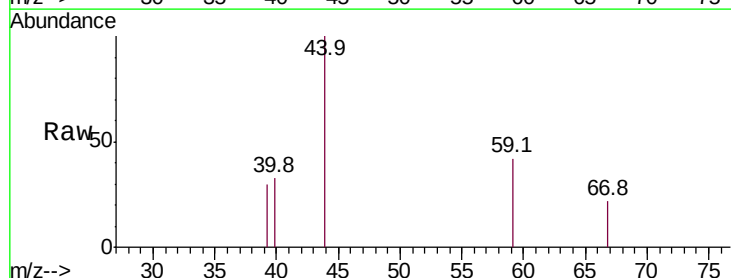
Acq: 18 Sep 2020 14:38

Tgt Ion: 59 Resp: 316

Ion Ratio Lower Upper

59 100

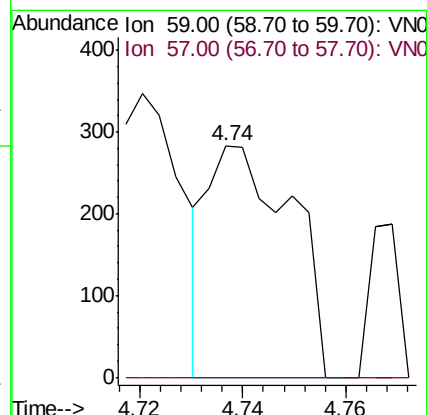
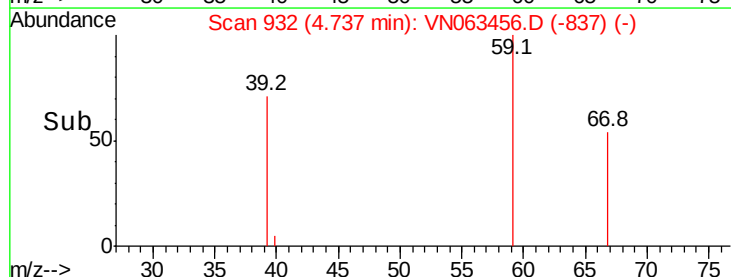
57 0.0 8.4 12.6#

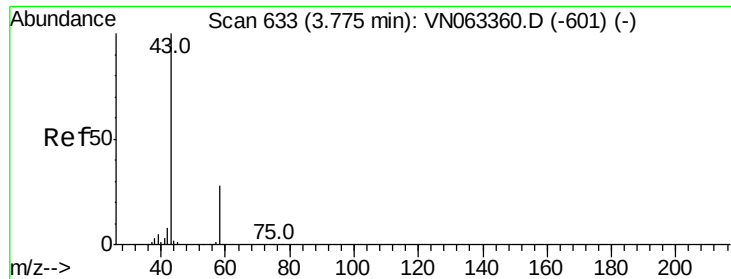


Abundance Ion 59.00 (58.70 to 59.70): VN063360.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063360.D (-905) (-)

4.74





#16

Acetone

Concen: 23.853 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

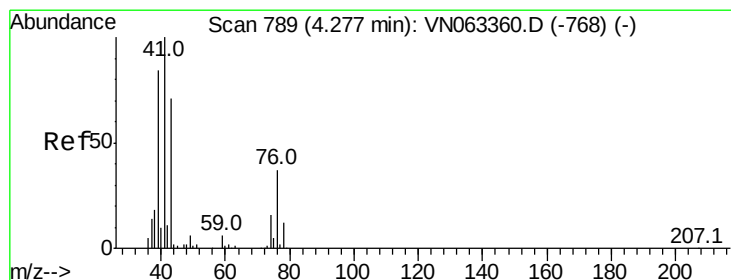
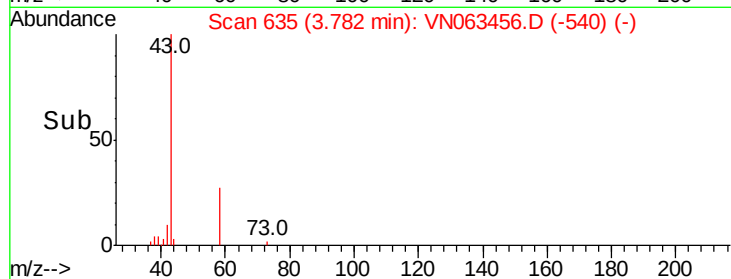
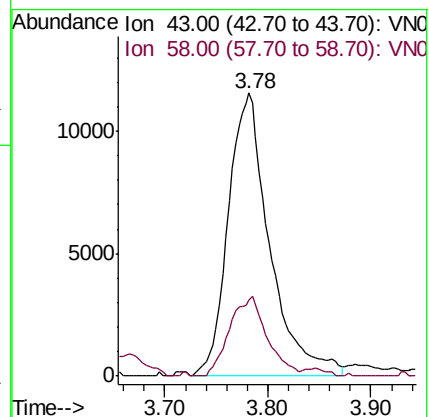
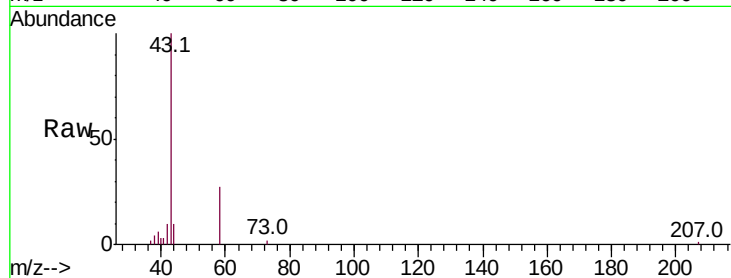
PB131701ZHE#11

Tot Ion: 43 Resp: 32347

Ion Ratio Lower Upper

43 100

58 26.9 22.3 33.5



#18

Methyl Acetate

Concen: 1.515 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063456.D

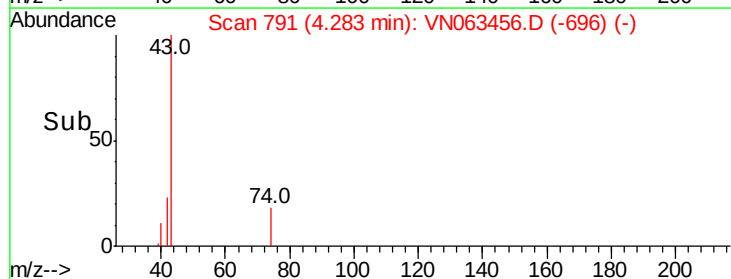
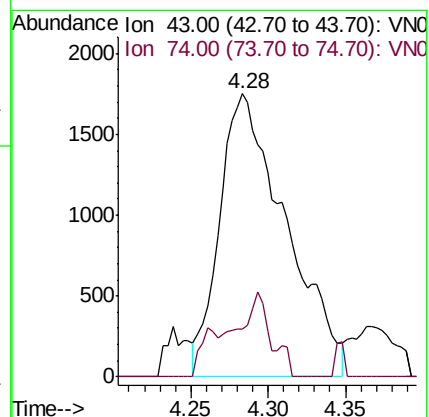
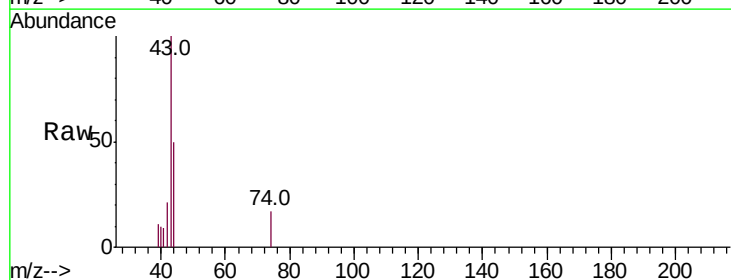
Acq: 18 Sep 2020 14:38

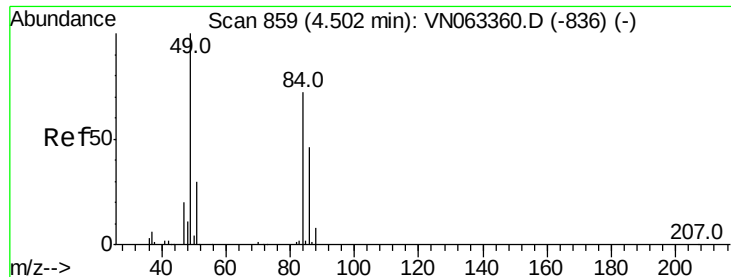
Tgt Ion: 43 Resp: 5215

Ion Ratio Lower Upper

43 100

74 10.0 17.4 26.2#

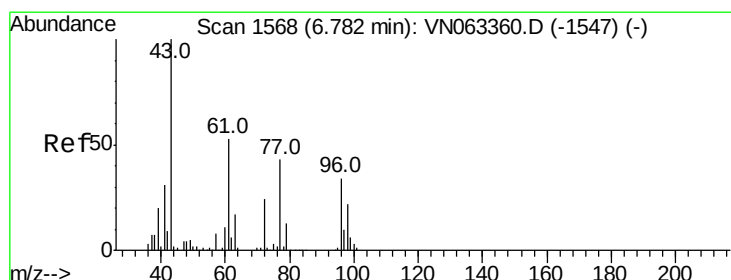
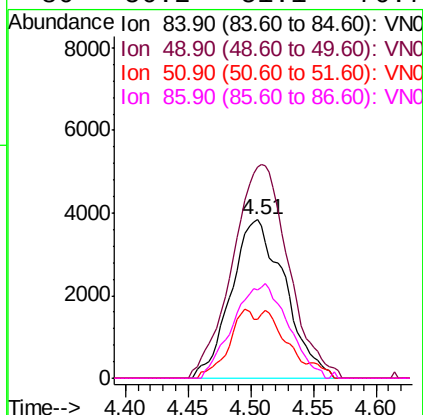
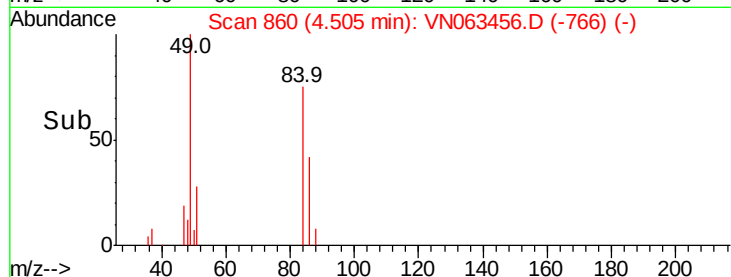
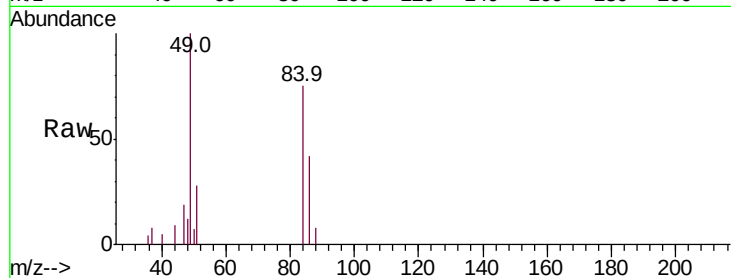




#20
Methvlene Chloride
Concen: 3.335 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063456.D
Acq: 18 Sep 2020 14:38

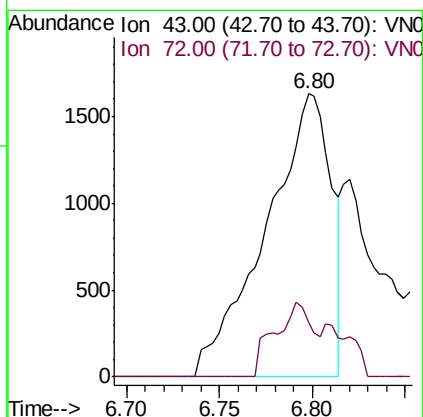
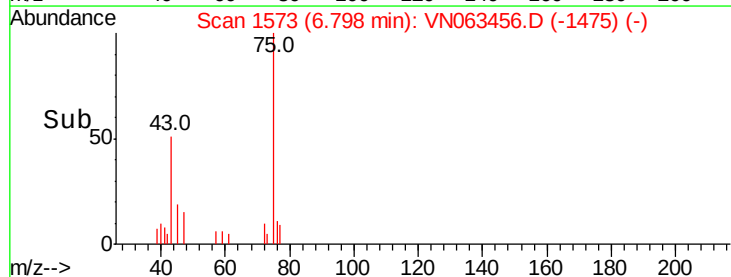
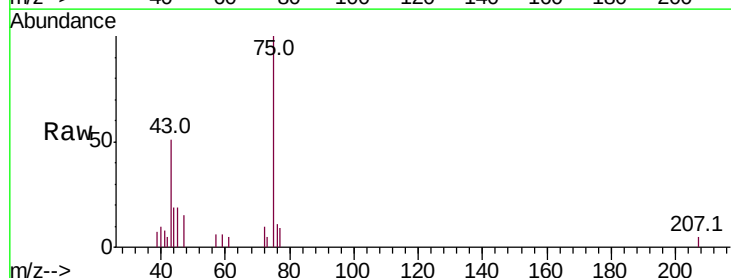
Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#11

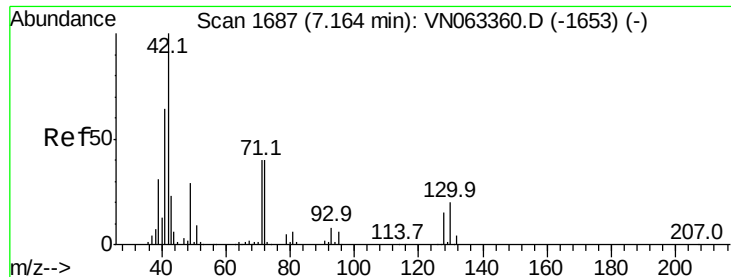
Tot Ion: 84 Resp: 11458
Ion Ratio Lower Upper
84 100
49 133.4 110.7 166.1
51 36.9 32.9 49.3
86 56.2 51.1 76.7



#25
2-Butanone
Concen: 1.915 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063456.D
Acq: 18 Sep 2020 14:38

Tgt Ion: 43 Resp: 3994
Ion Ratio Lower Upper
43 100
72 19.2 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.845 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#11

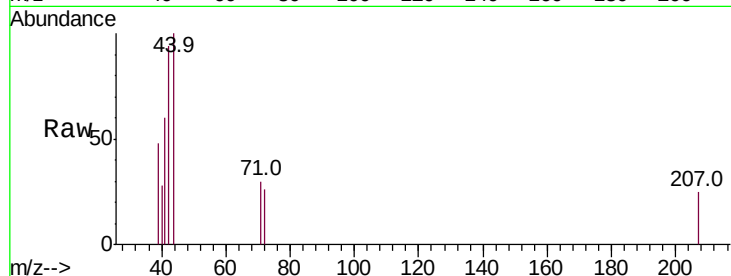
Tot Ion: 42 Resp: 1203

Ion Ratio Lower Upper

42 100

72 12.8 32.1 48.1#

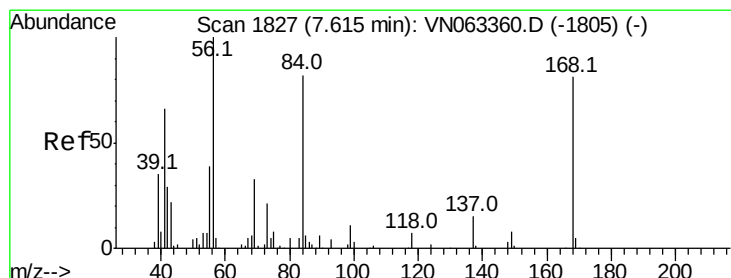
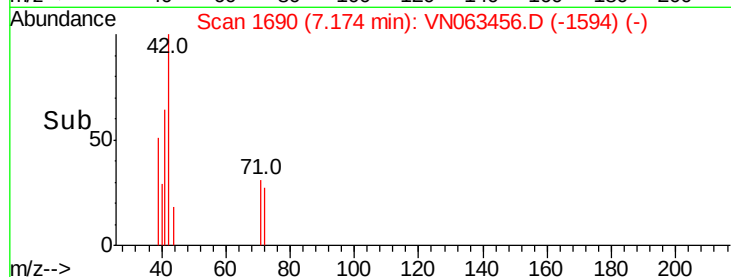
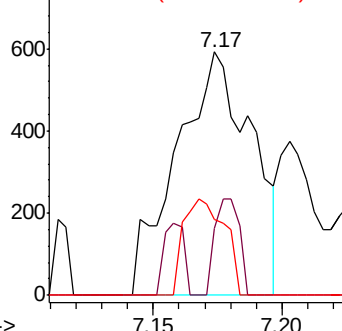
71 21.8 31.2 46.8#



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: 1.222 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

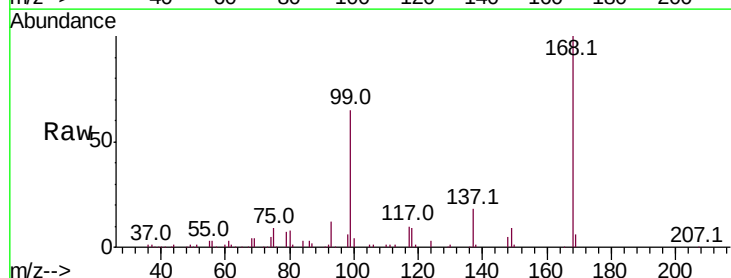
Tgt Ion: 56 Resp: 7124

Ion Ratio Lower Upper

56 100

69 146.1 26.1 39.1#

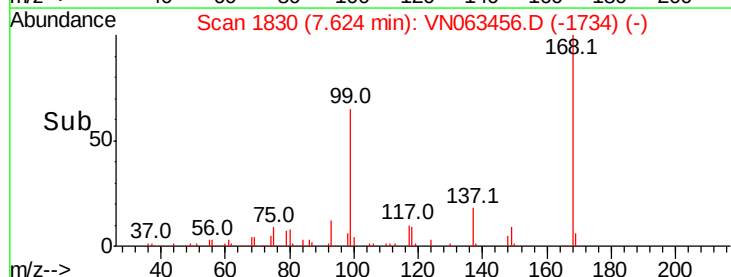
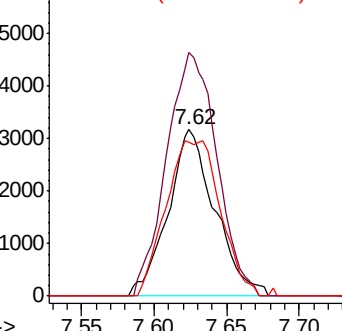
84 92.6 65.4 98.2

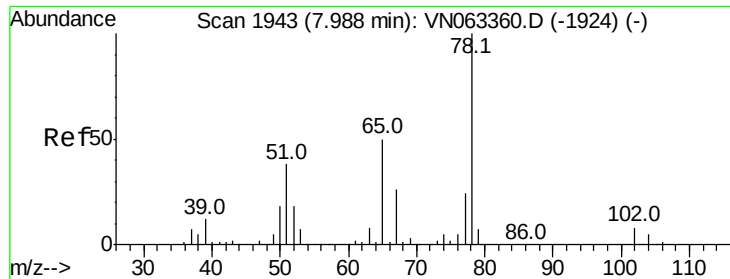


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

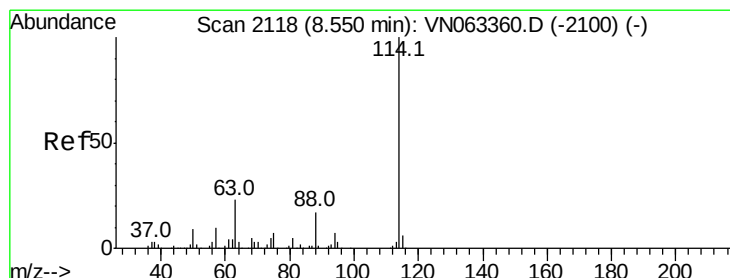
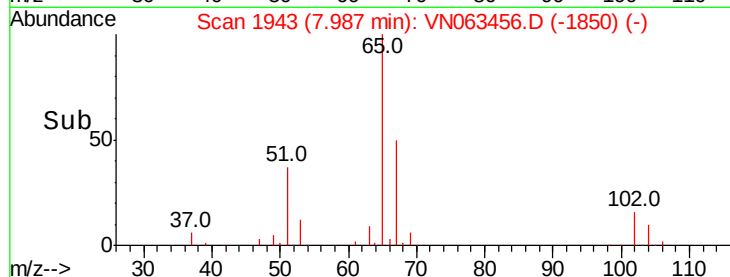
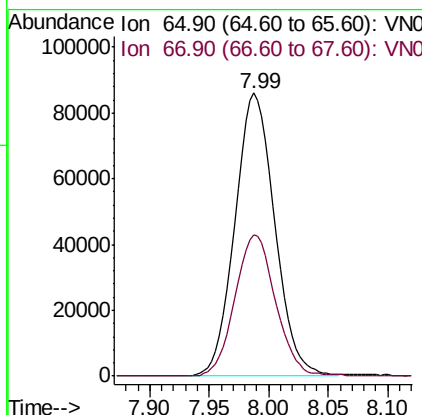
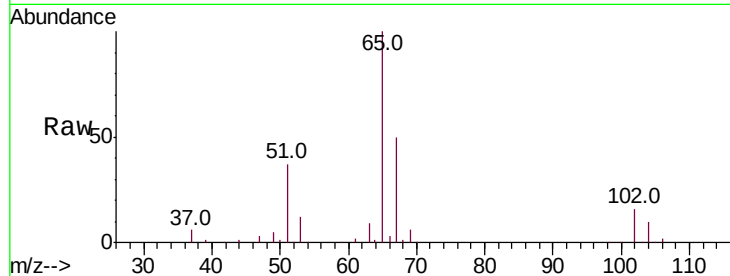




#33
 1,2-Dichloroethane-d4
 Concen: 47.320 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063456.D
 Acq: 18 Sep 2020 14:38

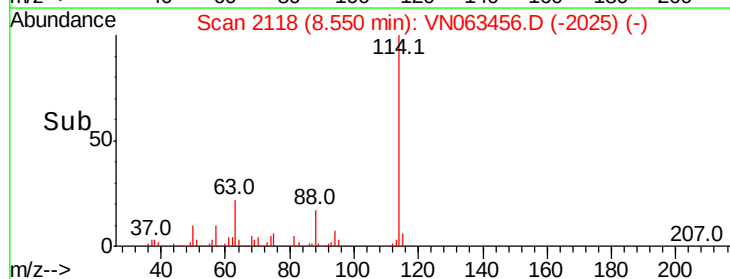
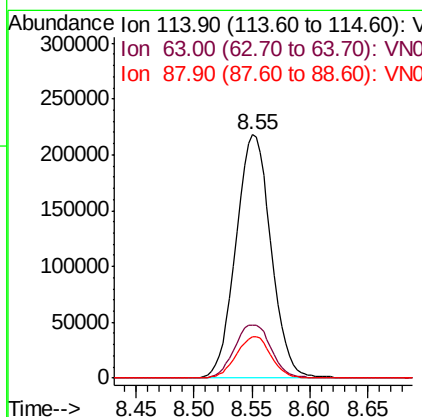
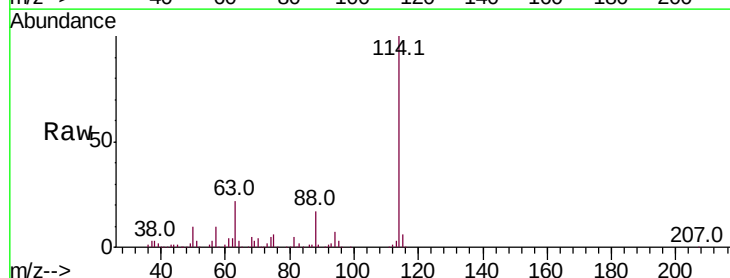
Instrument :
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 PB131701ZHE#11

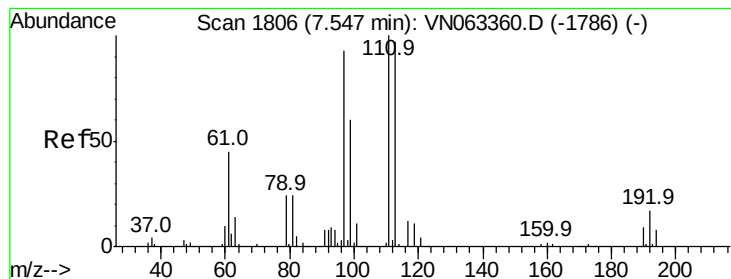
Tot Ion: 65 Resp: 199673
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063456.D
 Acq: 18 Sep 2020 14:38

Tgt Ion: 114 Resp: 459636
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 46.4
 88 16.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.339 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#11

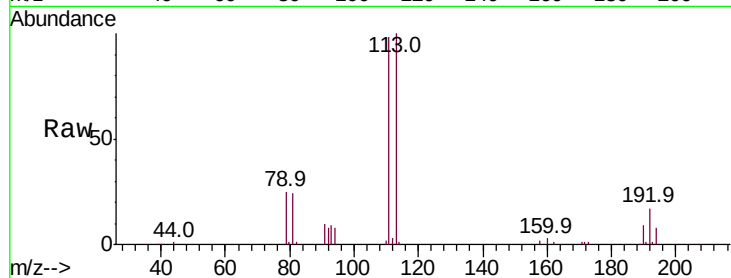
Tot Ion:113 Resp: 147450

Ion Ratio Lower Upper

113 100

111 100.4 82.9 124.3

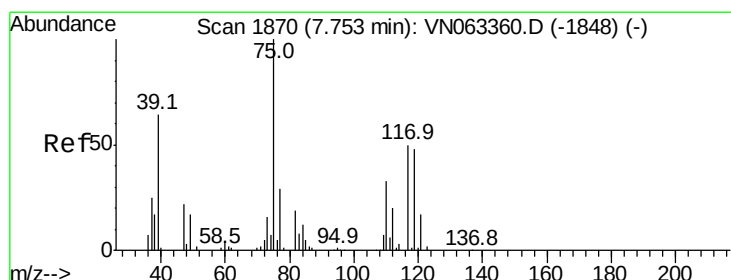
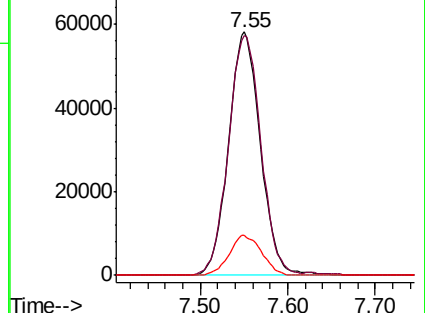
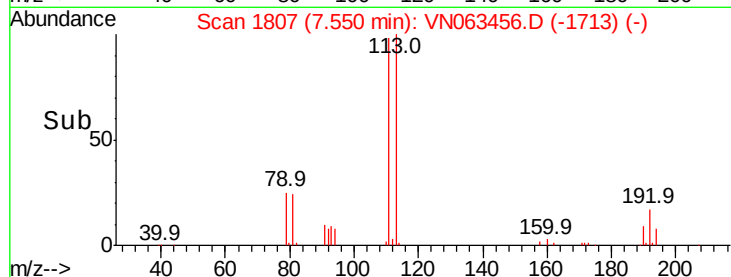
192 16.7 13.9 20.9



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: 4.734 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

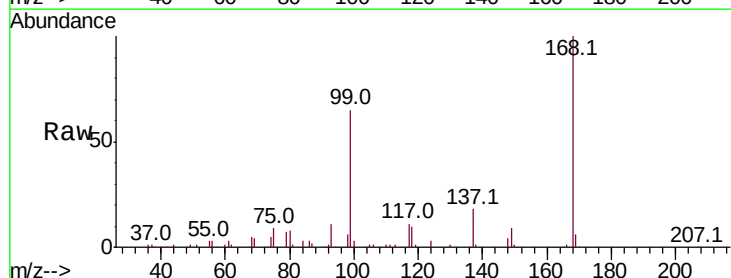
Tgt Ion: 75 Resp: 23181

Ion Ratio Lower Upper

75 100

110 3.5 16.5 49.5#

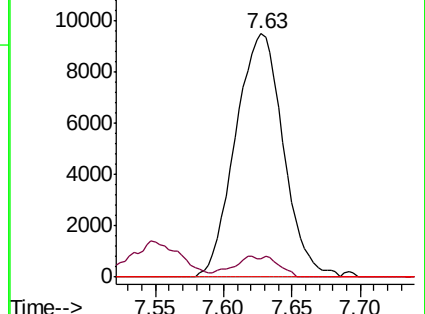
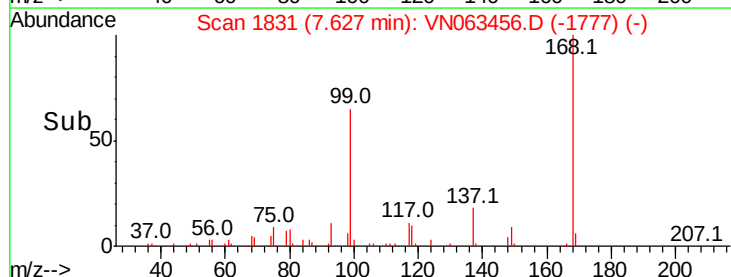
77 0.0 24.6 36.8#

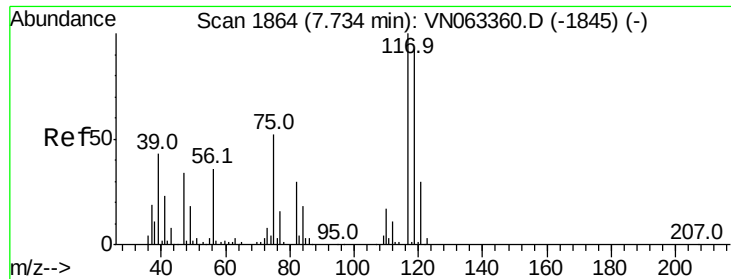


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.390 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#11

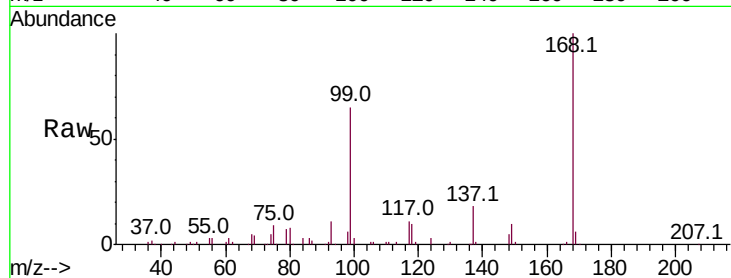
Tot Ion:117 Resp: 26942

Ion Ratio Lower Upper

117 100

119 5.5 74.5 111.7#

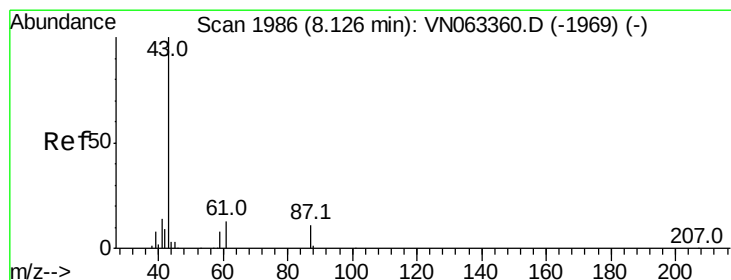
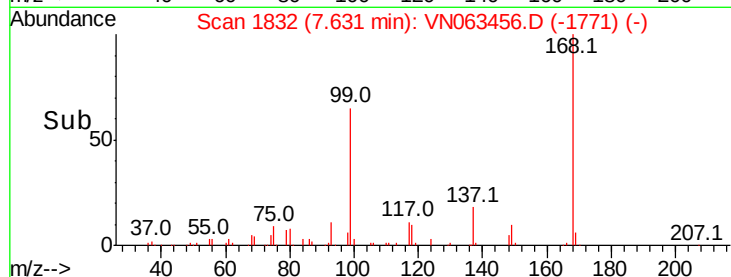
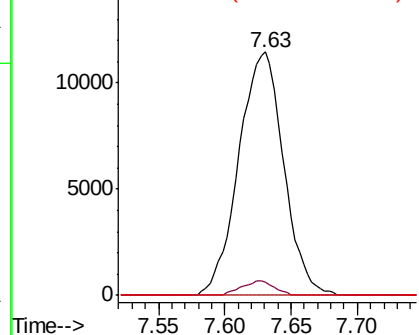
121 0.0 24.1 36.1#



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: 11.716 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

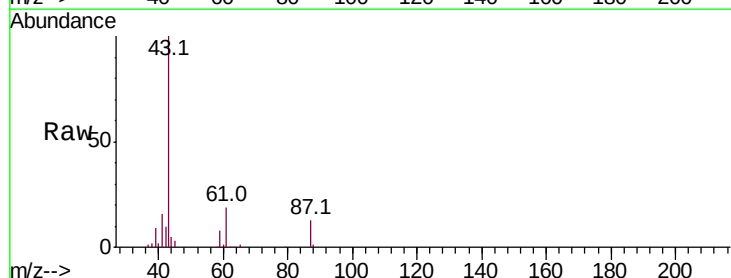
Tgt Ion: 43 Resp: 100686

Ion Ratio Lower Upper

43 100

61 18.3 14.2 21.2

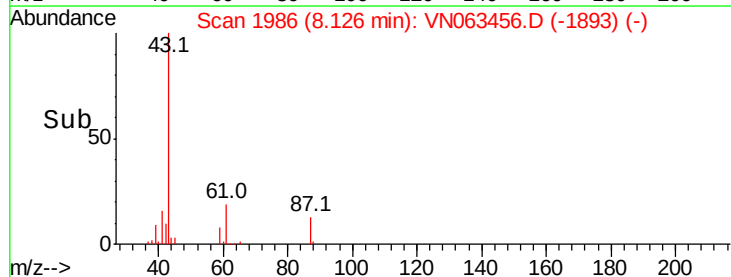
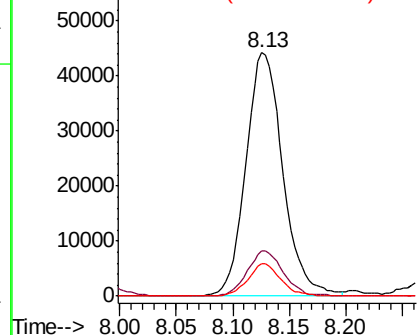
87 11.8 9.0 13.6

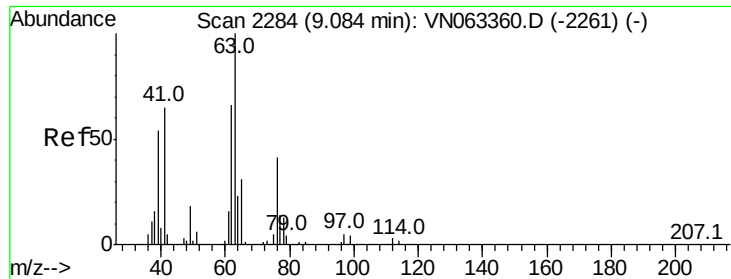


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.506 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

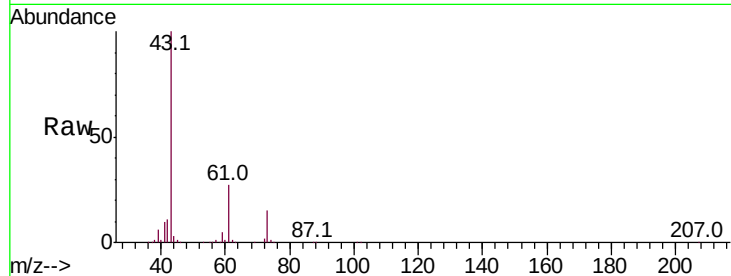
PB131701ZHE#11

Tot Ion: 63 Resp: 1928

Ion Ratio Lower Upper

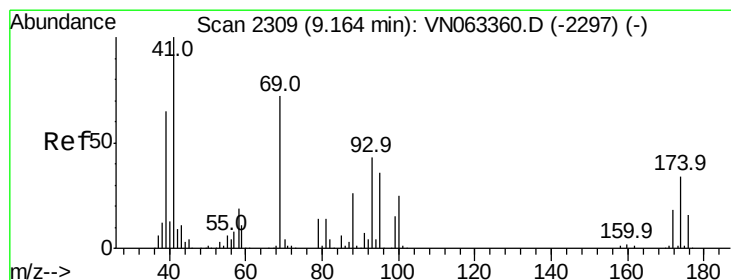
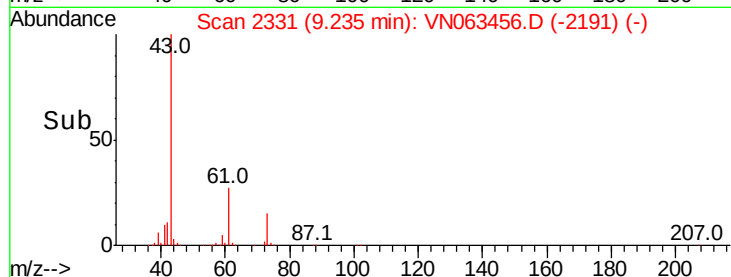
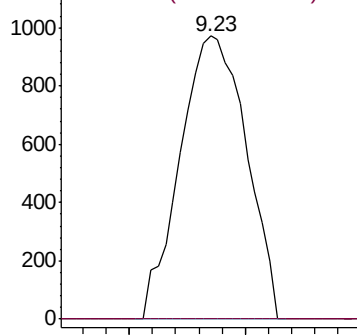
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.441 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

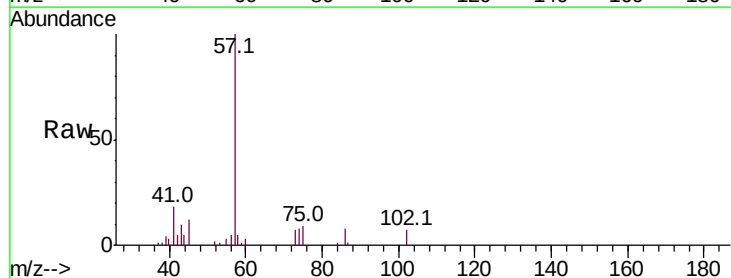
Tgt Ion: 41 Resp: 6084

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

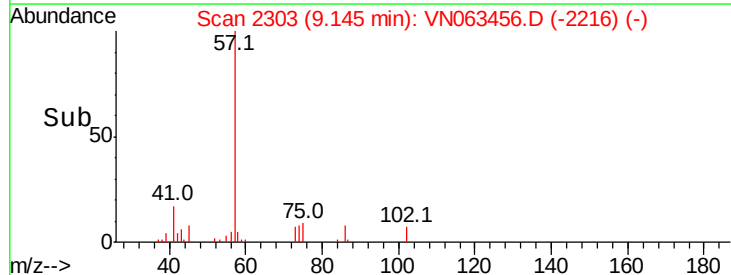
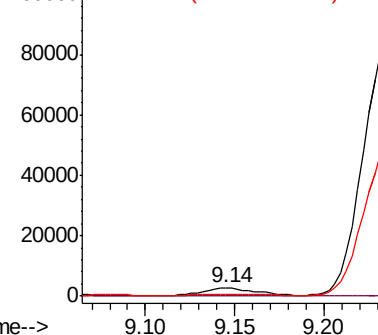
39 0.0 52.9 79.3#

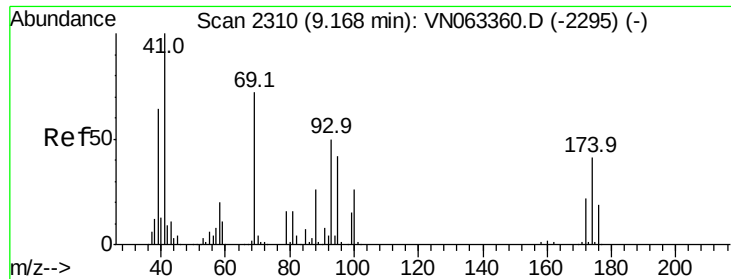


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 3.846 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#11

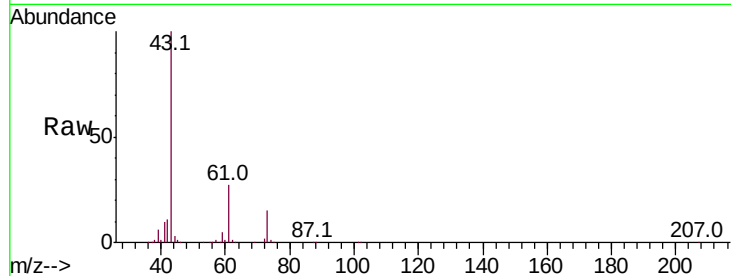
Tot Ion: 88 Resp: 233

Ion Ratio Lower Upper

88 100

43 693953.2 32.6 49.0#

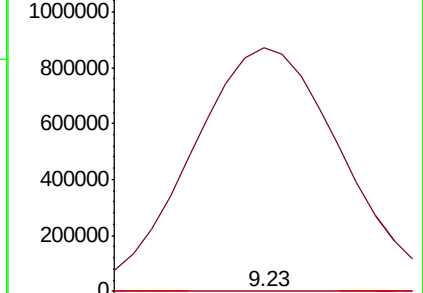
58 2759.7 60.0 90.0#



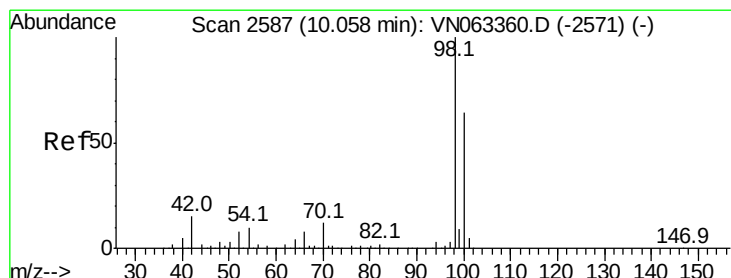
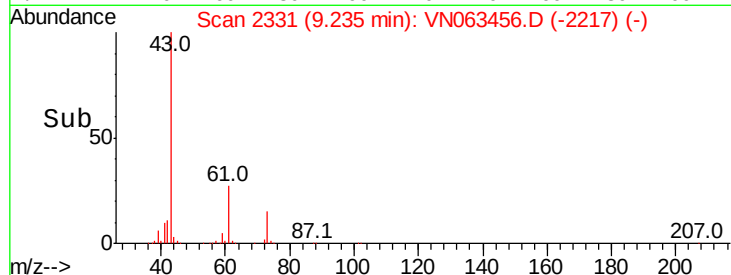
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 9.21 9.22 9.23 9.24 9.25



#50

Toluene-d8

Concen: 49.442 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063456.D

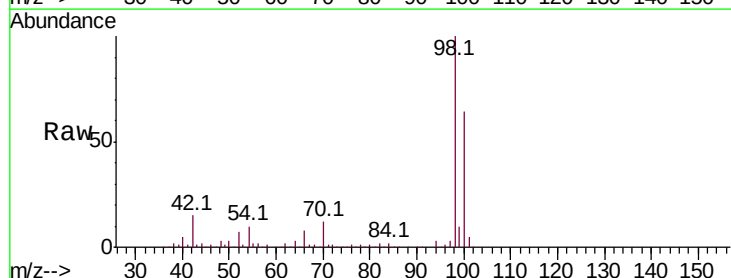
Acq: 18 Sep 2020 14:38

Tgt Ion: 98 Resp: 591564

Ion Ratio Lower Upper

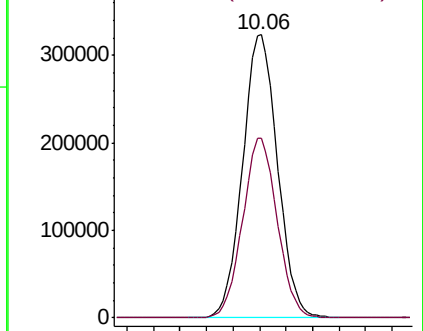
98 100

100 63.1 50.7 76.1

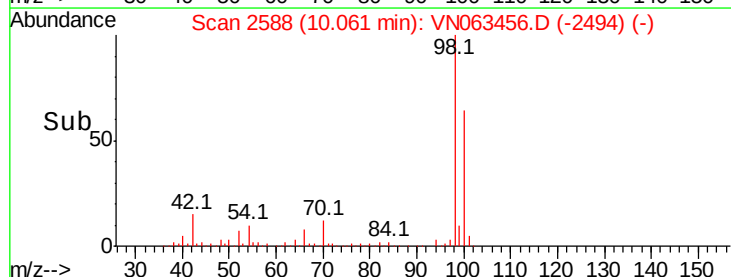


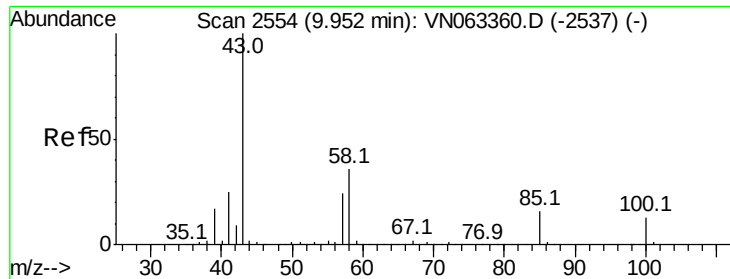
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time--> 10.00 10.10





#51

4-Methyl-2-Pentanone

Concen: 2.726 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

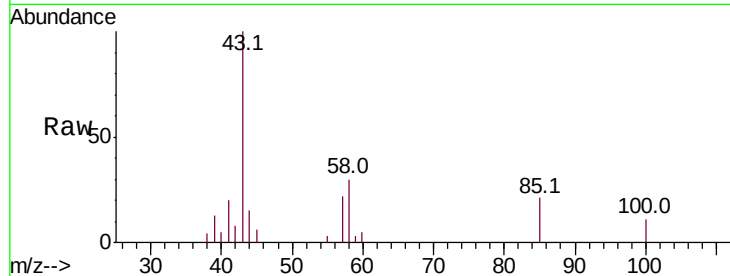
PB131701ZHE#11

Tot Ion: 43 Resp: 13114

Ion Ratio Lower Upper

43 100

58 30.9 29.0 43.6



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

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

30000

25000

20000

15000

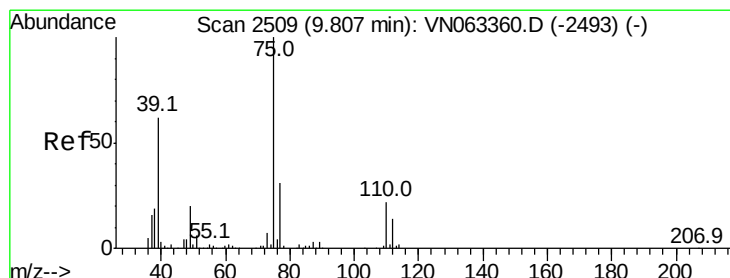
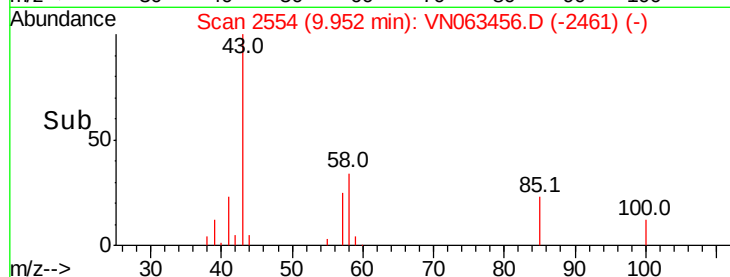
10000

5000

0

9.90 9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.749 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

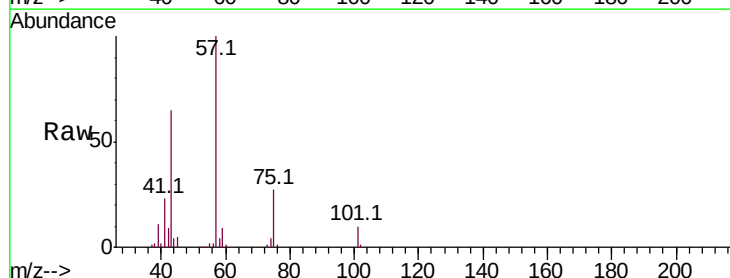
Tgt Ion: 75 Resp: 41313

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 41.6 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)

30000

25000

20000

15000

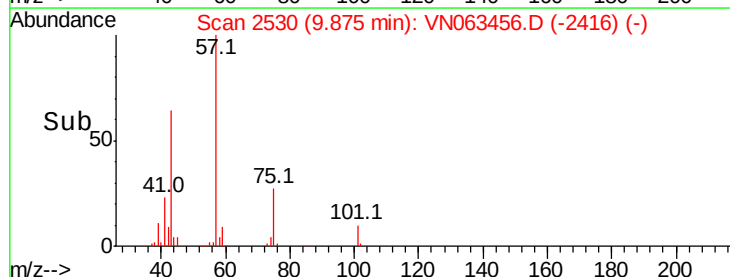
10000

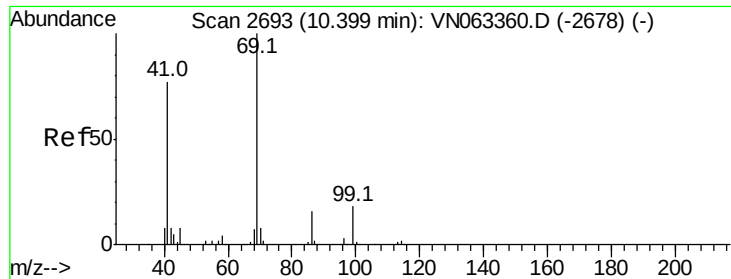
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.363 ug/l

RT: 10.52 min Scan# 2732

Delta R.T. 0.13 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#11

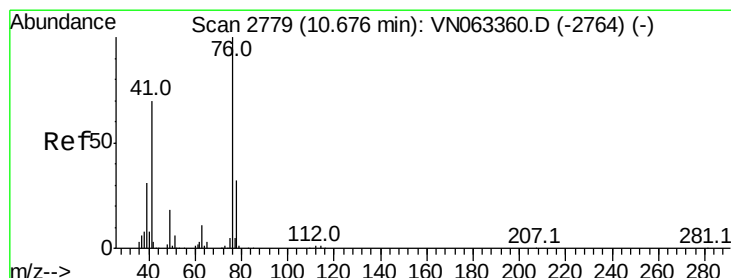
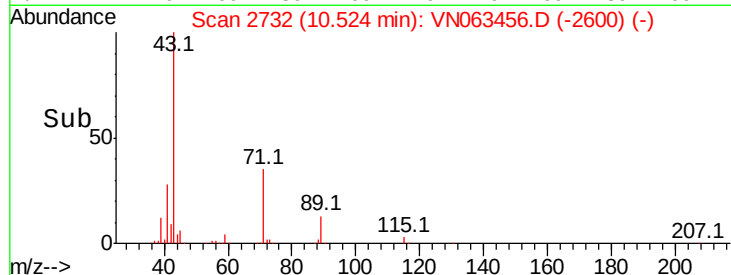
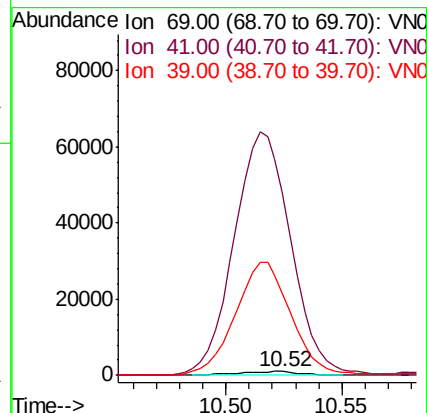
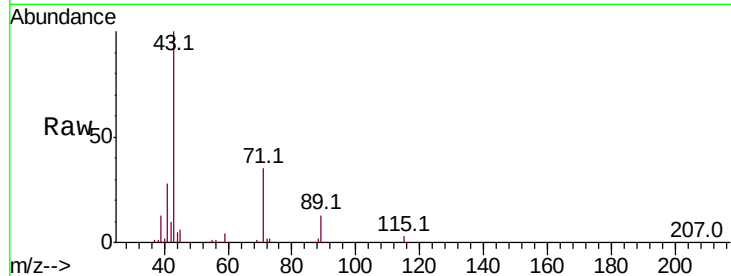
Tot Ion: 69 Resp: 1892

Ion Ratio Lower Upper

69 100

41 5779.8 61.0 91.6#

39 2617.2 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 1.121 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063456.D

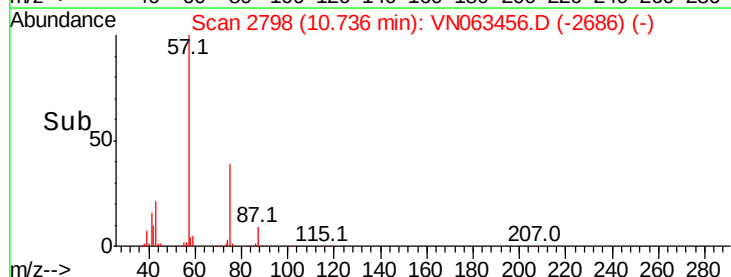
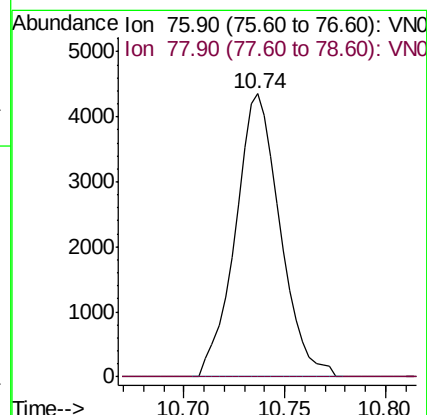
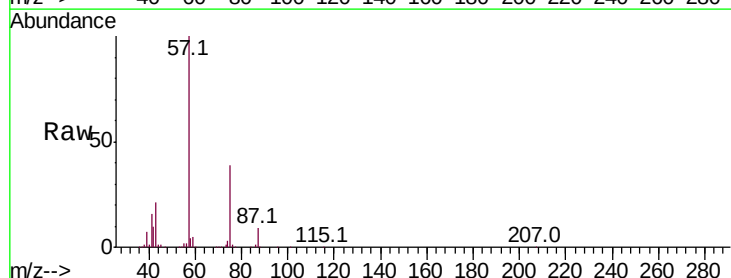
Acq: 18 Sep 2020 14:38

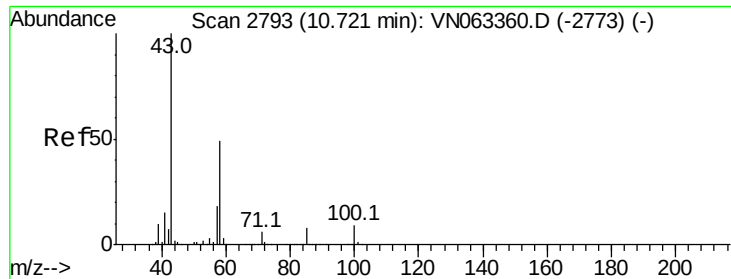
Tgt Ion: 76 Resp: 6748

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 31.958 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

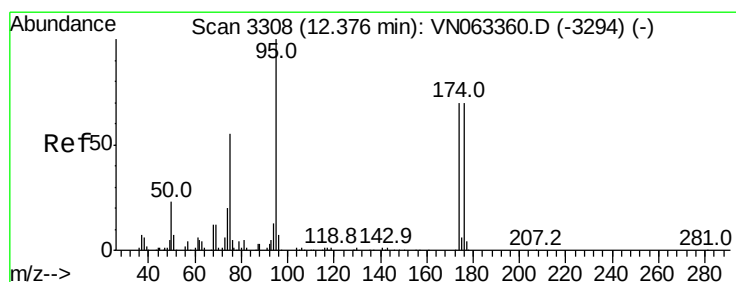
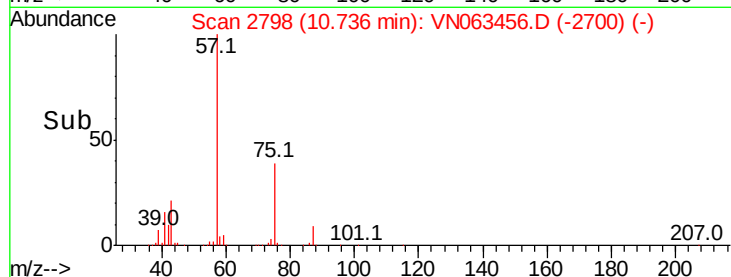
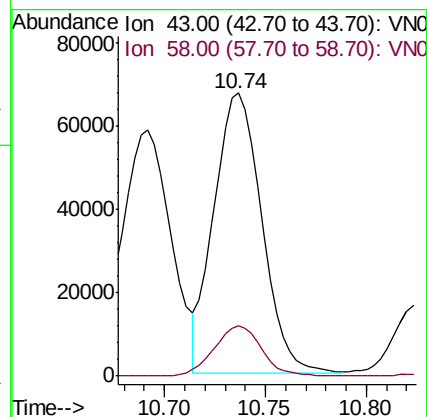
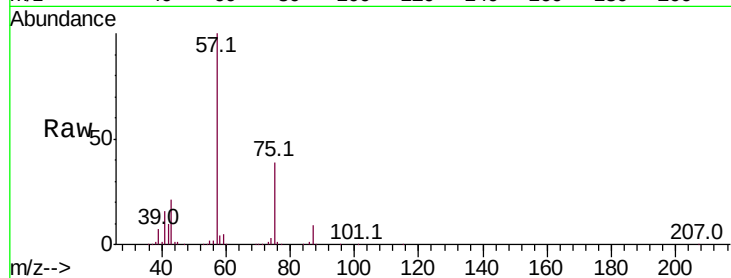
PB131701ZHE#11

Tot Ion: 43 Resp: 111386

Ion Ratio Lower Upper

43 100

58 17.8 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.821 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

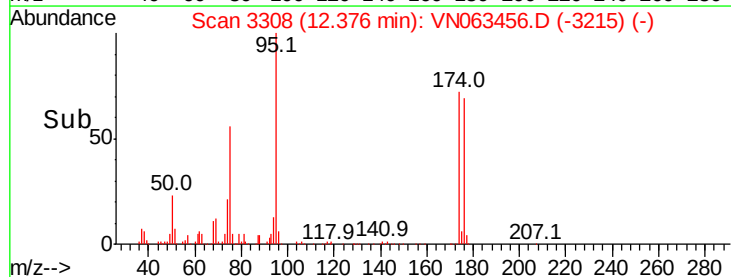
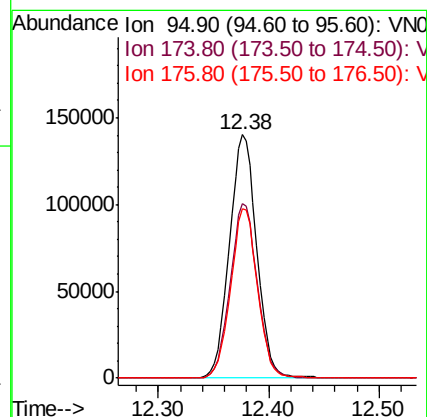
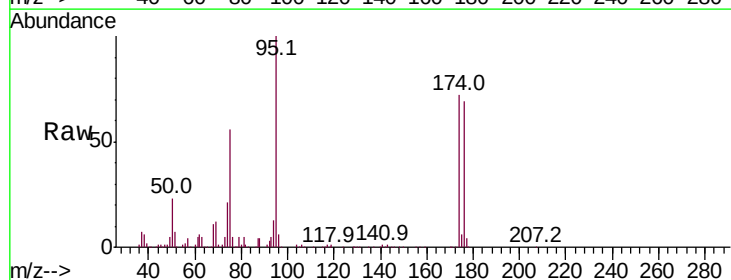
Tgt Ion: 95 Resp: 240450

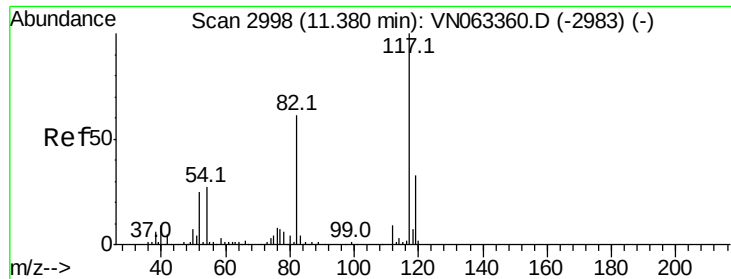
Ion Ratio Lower Upper

95 100

174 71.5 0.0 140.8

176 68.5 0.0 137.6

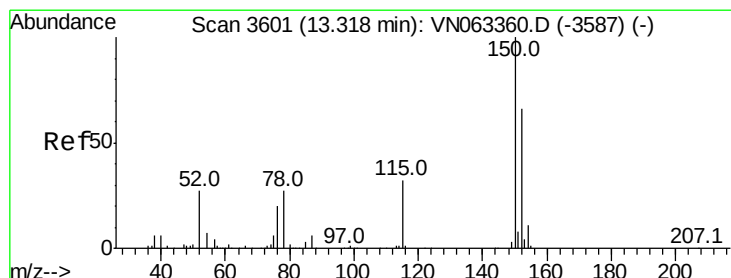
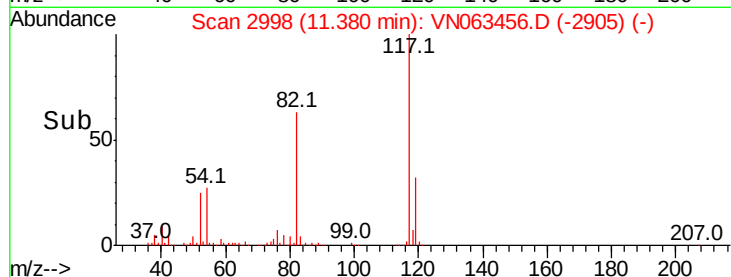
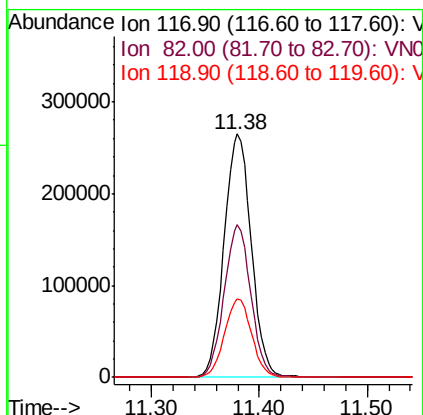
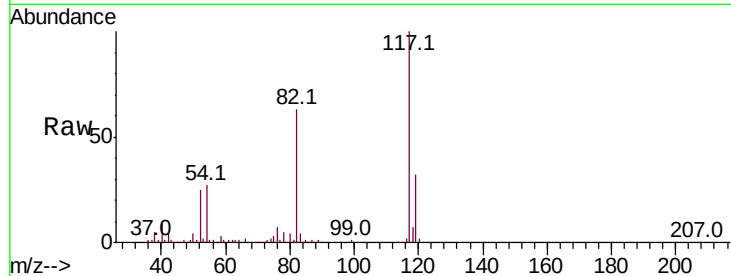




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063456.D
Acq: 18 Sep 2020 14:38

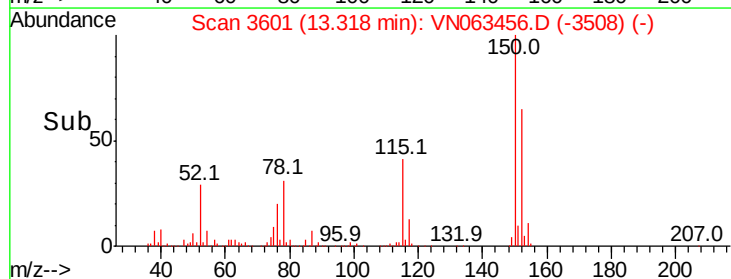
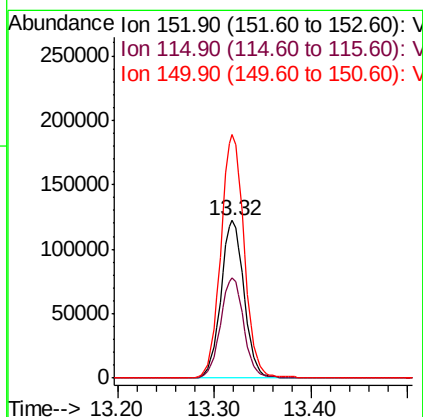
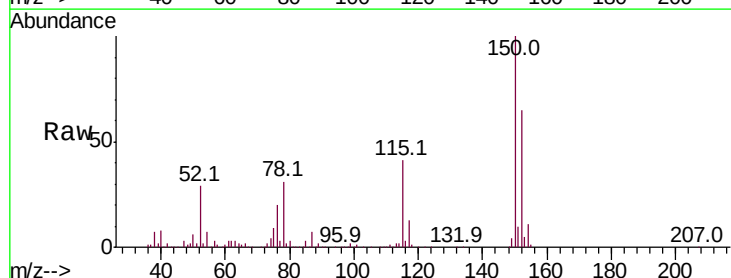
Instrument :
MSVOA_N
ClientSampleId :
PB131701ZHE#11

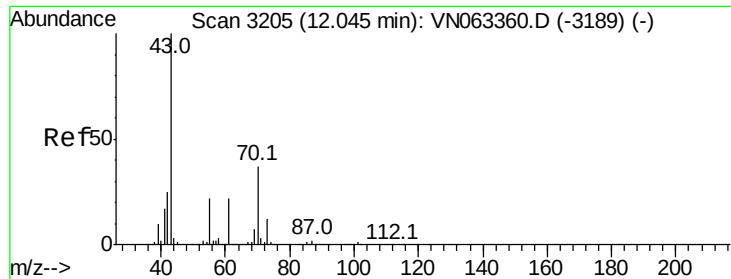
Tot Ion:117 Resp: 466446
Ion Ratio Lower Upper
117 100
82 62.5 49.2 73.8
119 32.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063456.D
Acq: 18 Sep 2020 14:38

Tgt Ion:152 Resp: 202689
Ion Ratio Lower Upper
152 100
115 64.0 32.2 96.6
150 156.0 0.0 343.4





#74

N-amvl acetate

Concen: 0.430 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063456.D

Acq: 18 Sep 2020 14:38

Instrument :

MSVOA_N

ClientSampleId :

PB131701ZHE#11

Tot Ion: 43 Resp: 3306

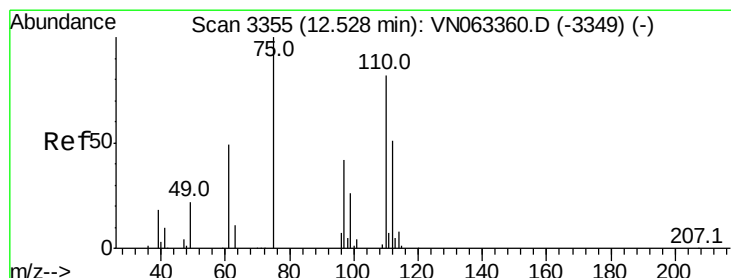
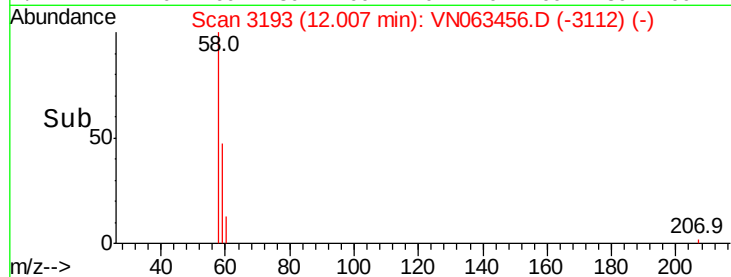
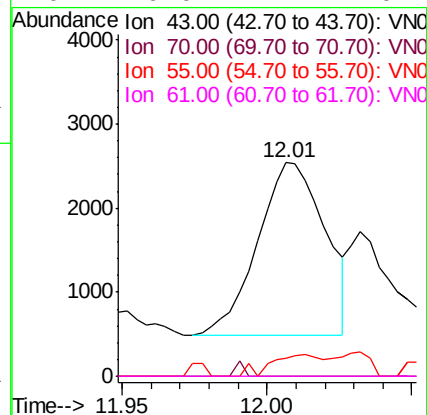
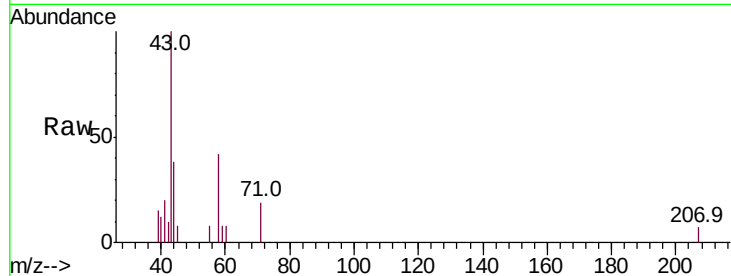
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 9.7 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 26.850 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063456.D

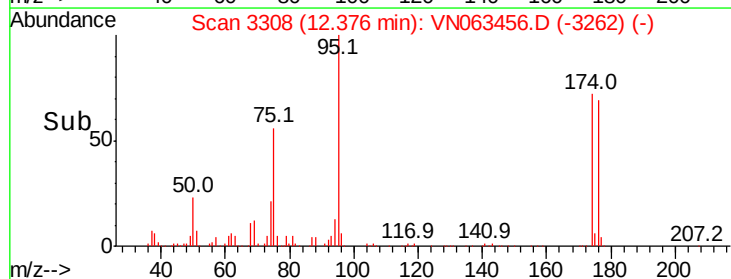
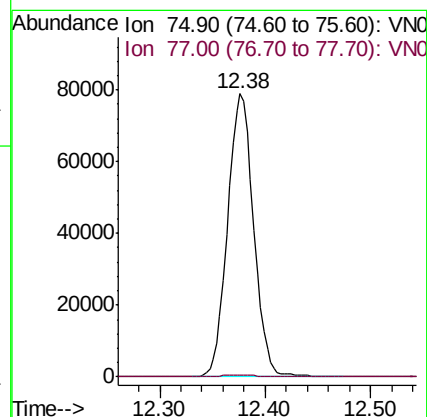
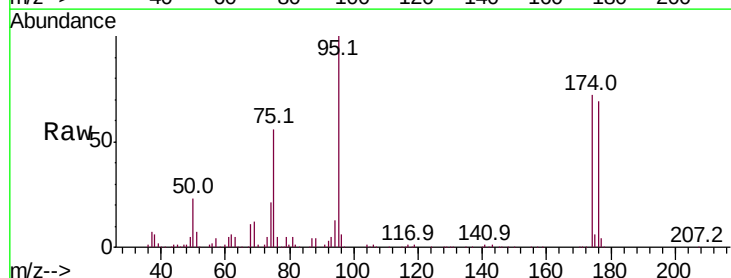
Acq: 18 Sep 2020 14:38

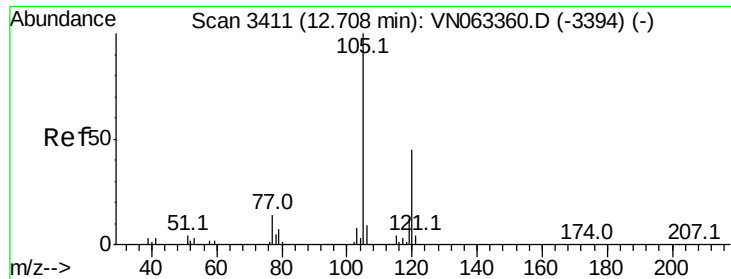
Tgt Ion: 75 Resp: 134700

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#

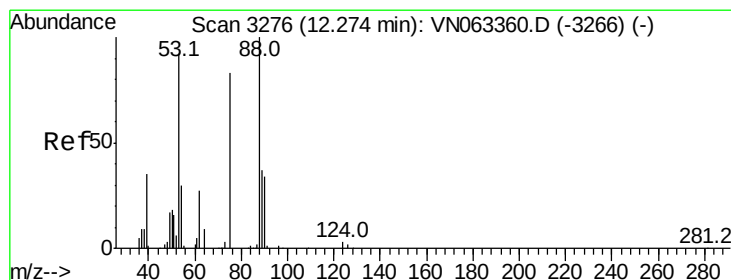
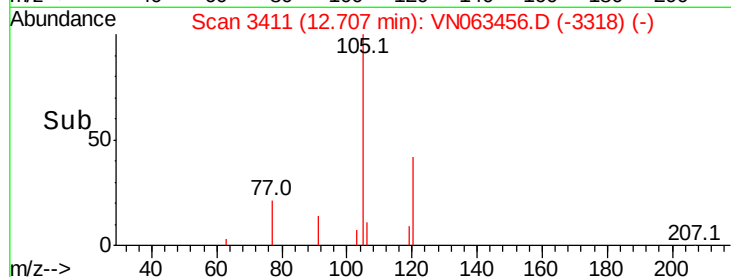
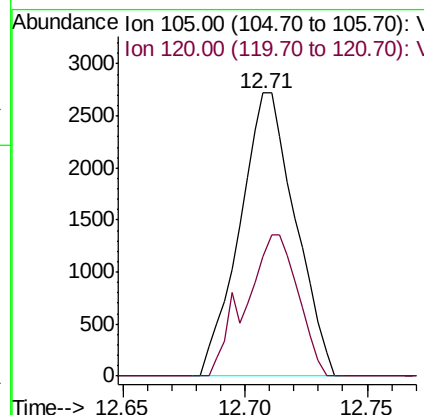
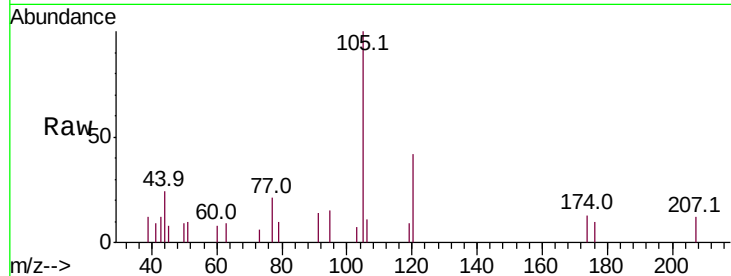




#80
 1,3,5-Trimethylbenzene
 Concen: 0.317 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063456.D
 Acq: 18 Sep 2020 14:38

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131701ZHE#11

Tot Ion:105 Resp: 4294
 Ion Ratio Lower Upper
 105 100
 120 47.4 22.9 68.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.611 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063456.D
 Acq: 18 Sep 2020 14:38

Tgt Ion: 75 Resp: 134700
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

