

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063391.D
 Acq On : 17 Sep 2020 2:39
 Operator : JC/MD
 Sample : PB131646ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#18

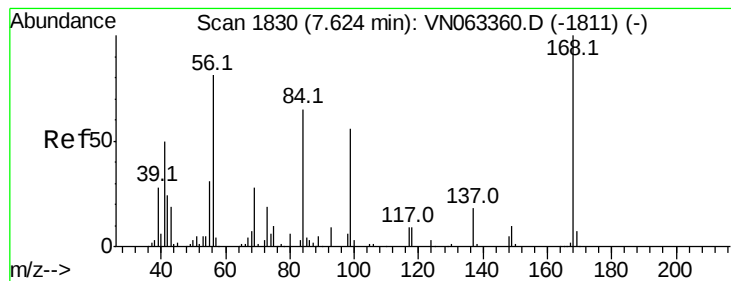
Quant Time: Sep 17 05:12:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	226593	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	423655	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	419356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182803	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	183037	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
35) Dibromofluoromethane	7.55	113	136312	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	
50) Toluene-d8	10.06	98	549200	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	12.38	95	219482	54.29	ug/l	0.00
Spiked Amount			Recovery	=	108.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	13958	11.260	ug/l	99
18) Methyl Acetate	4.29	43	5101	1.621	ug/l #	74
20) Methylene Chloride	4.51	84	13014	4.144	ug/l	84
25) 2-Butanone	6.79	43	2361	1.238	ug/l #	90
29) Tetrahydrofuran	7.17	42	1427	1.096	ug/l #	58
31) Cyclohexane	7.62	56	6584	1.236	ug/l #	3
36) 1,1-Dichloropropene	7.62	75	21268	4.712	ug/l #	52
38) Carbon Tetrachloride	7.62	117	25379	5.508	ug/l #	18
43) Isopropyl Acetate	8.13	43	88325	11.151	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1934	0.551	ug/l #	43
48) Methyl methacrylate	9.14	41	5571	1.432	ug/l #	15
49) 1,4-Dioxane	9.16	88	30	0.537	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8470	1.910	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	36005	6.381	ug/l #	62
56) Ethyl methacrylate	10.51	69	1364	0.284	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6134	1.105	ug/l #	42
59) 2-Hexanone	10.74	43	98515	30.665	ug/l #	54
71) Bromoform	12.37	173	859	0.353	ug/l #	1
74) N-amyl acetate	12.00	43	3513	0.507	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	119432	26.396	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	10823	0.886	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119432	72.368	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: VN063391.D

Acq: 17 Sep 2020 2:39

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ClientSampleId :

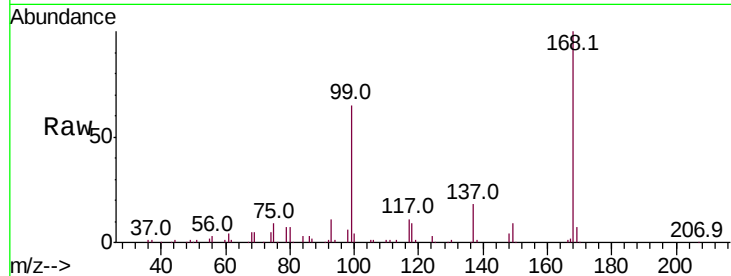
PB131646ZHE#18

Tot Ion:168 Resp: 226593

Ion Ratio Lower Upper

168 100

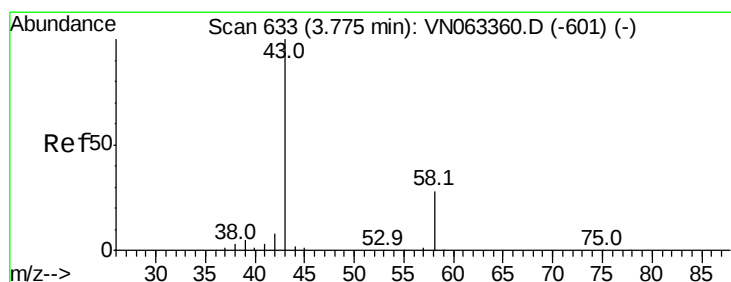
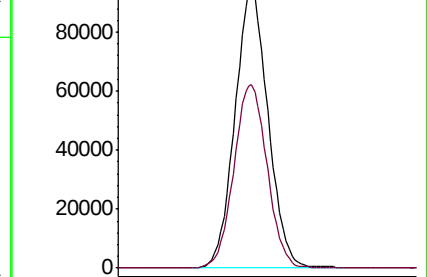
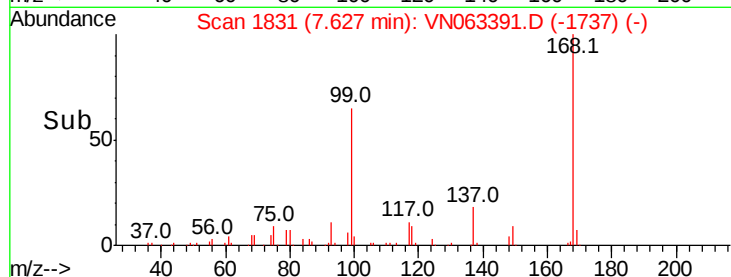
99 64.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063391.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN063391.D (-1737) (-)

7.63



#16

Acetone

Concen: 11.260 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063391.D

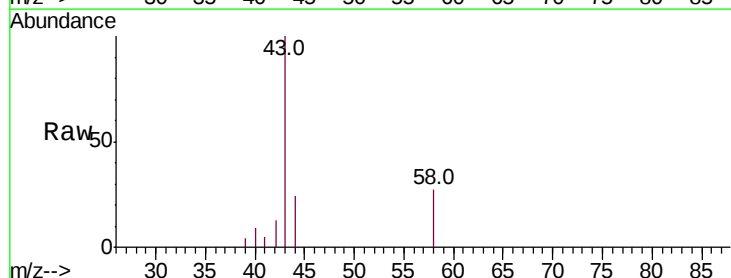
Acq: 17 Sep 2020 2:39

Tgt Ion: 43 Resp: 13958

Ion Ratio Lower Upper

43 100

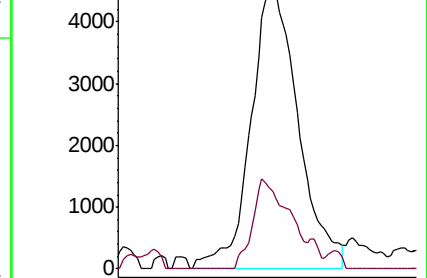
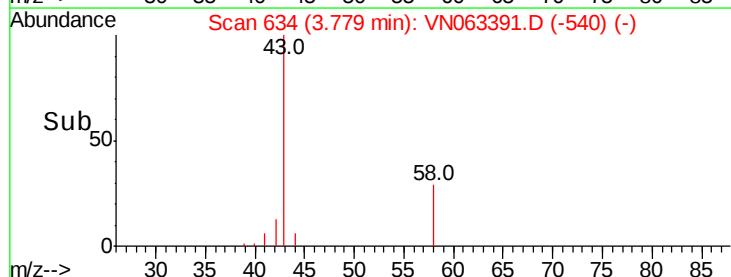
58 27.3 22.3 33.5

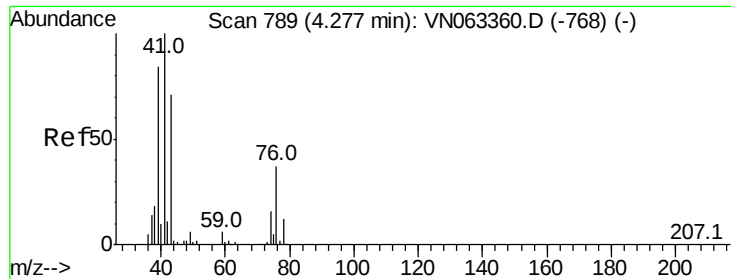


Abundance Ion 43.00 (42.70 to 43.70): VN063391.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN063391.D (-540) (-)

3.78

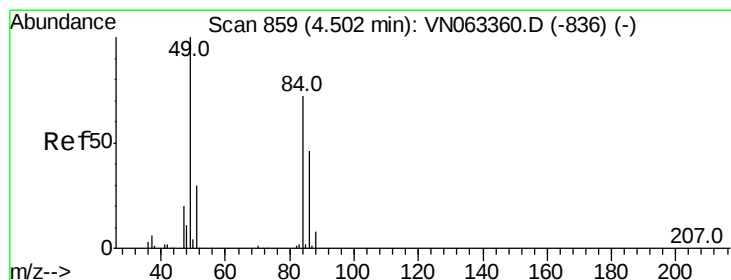
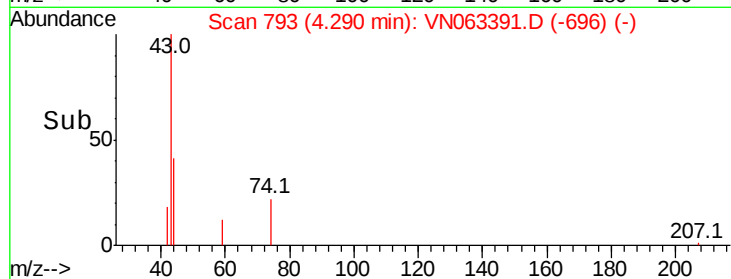
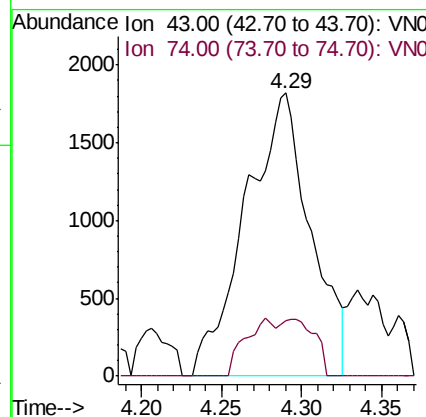
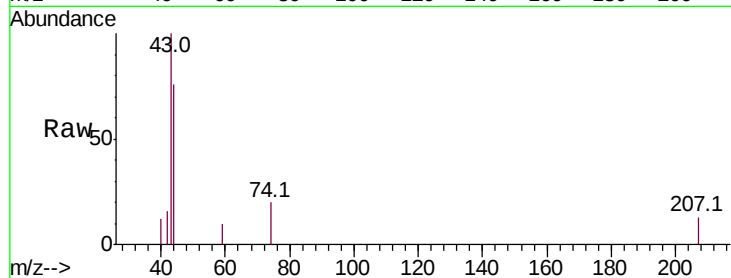




#18
Methvl Acetate
Concen: 1.621 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063391.D
Acq: 17 Sep 2020 2:39

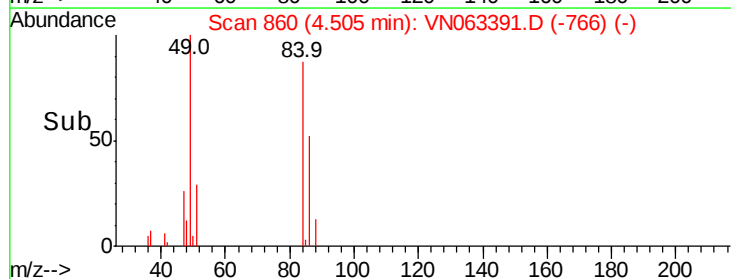
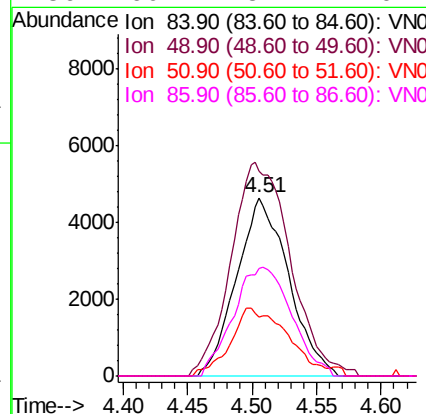
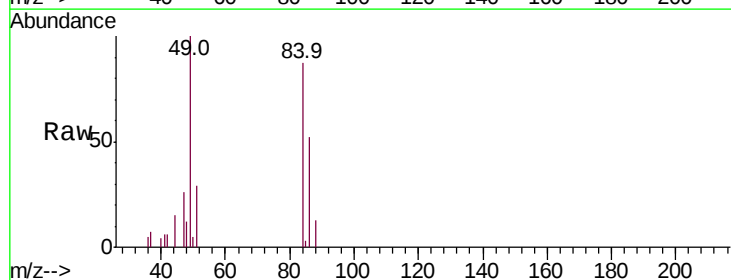
Instrument :
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PB131646ZHE#18

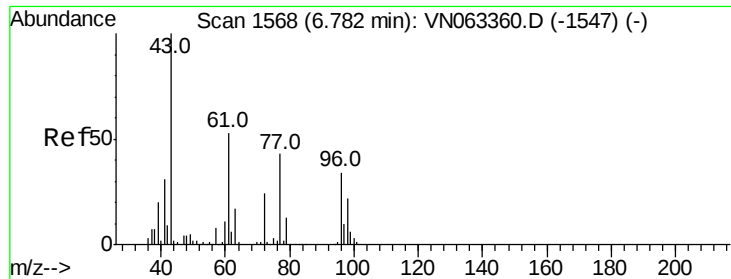
Tot Ion: 43 Resp: 5101
Ion Ratio Lower Upper
43 100
74 9.4 17.4 26.2#



#20
Methylene Chloride
Concen: 4.144 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063391.D
Acq: 17 Sep 2020 2:39

Tgt Ion: 84 Resp: 13014
Ion Ratio Lower Upper
84 100
49 111.3 110.7 166.1
51 33.3 32.9 49.3
86 60.2 51.1 76.7





#25

2-Butanone

Concen: 1.238 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

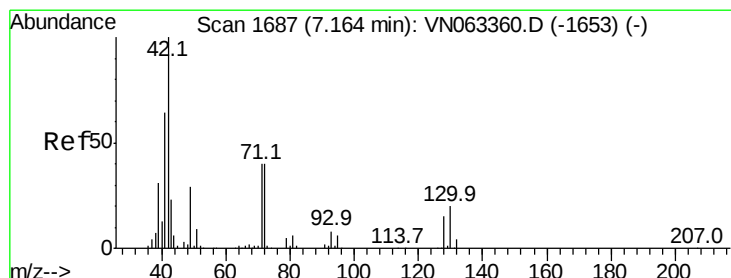
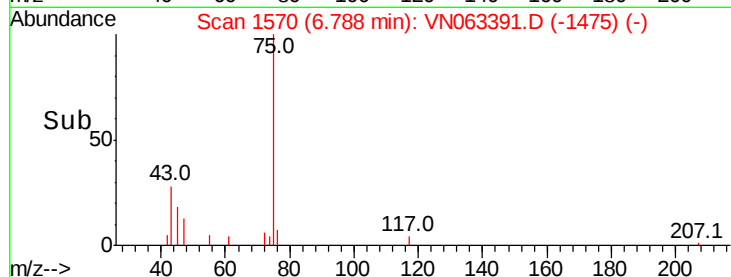
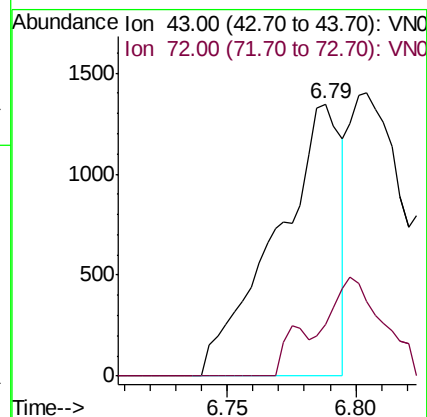
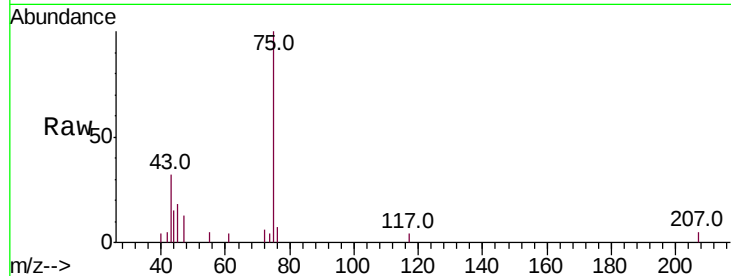
PB131646ZHE#18

Tot Ion: 43 Resp: 2361

Ion Ratio Lower Upper

43 100

72 18.9 19.2 28.8#



#29

Tetrahydrofuran

Concen: 1.096 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

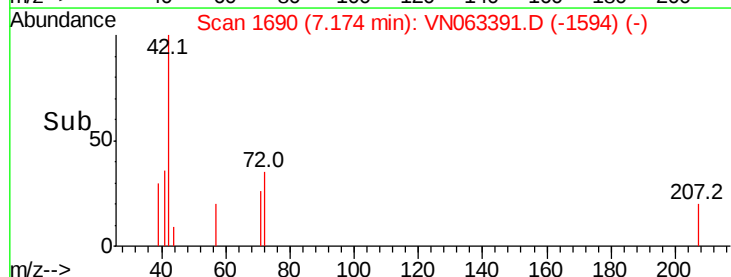
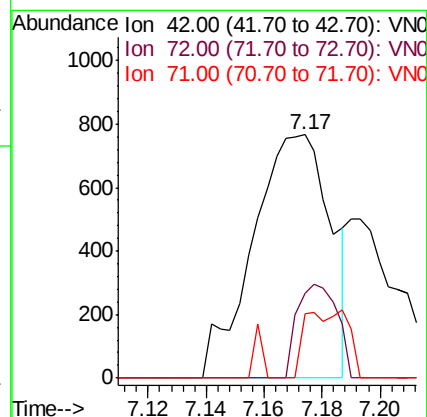
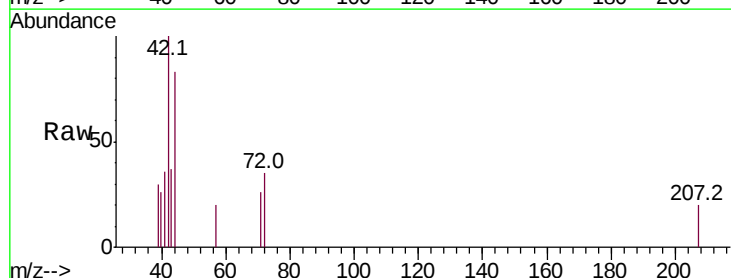
Tgt Ion: 42 Resp: 1427

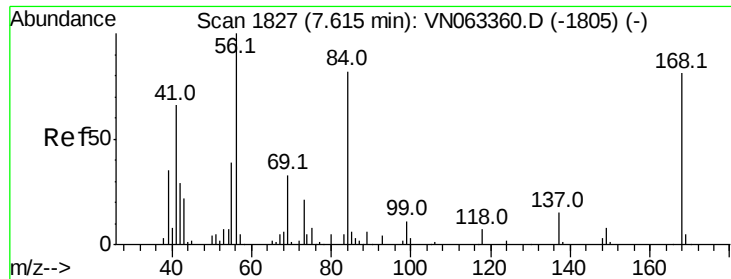
Ion Ratio Lower Upper

42 100

72 19.8 32.1 48.1#

71 8.0 31.2 46.8#

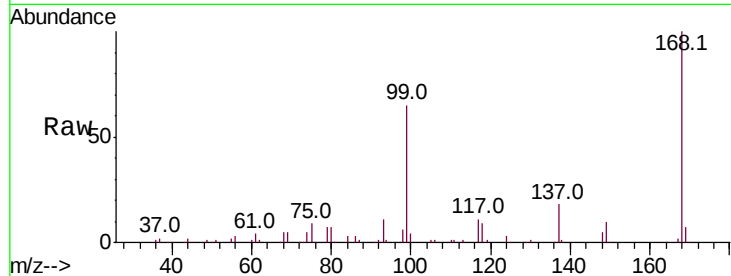




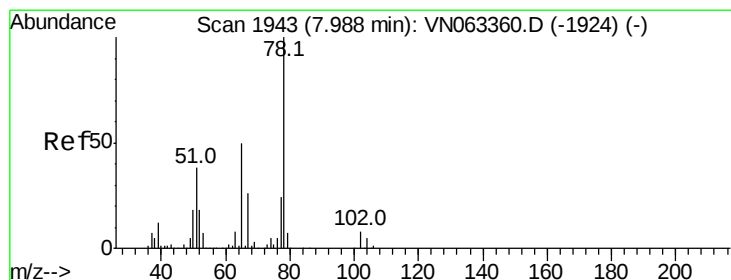
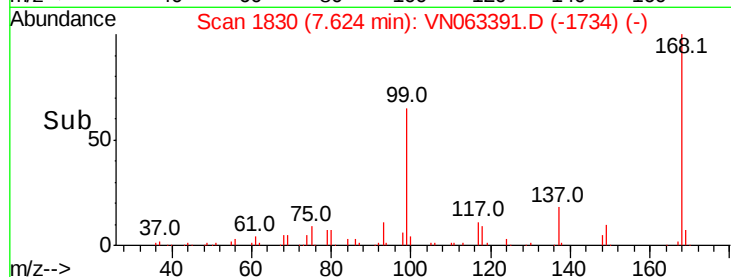
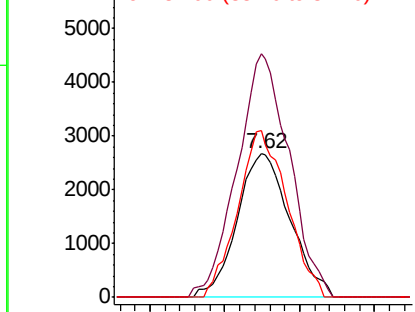
#31
Cyclohexane
Concen: 1.236 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063391.D
Acq: 17 Sep 2020 2:39

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#18

Tot Ion: 56 Resp: 6584
Ion Ratio Lower Upper
56 100
69 169.4 26.1 39.1#
84 116.0 65.4 98.2#

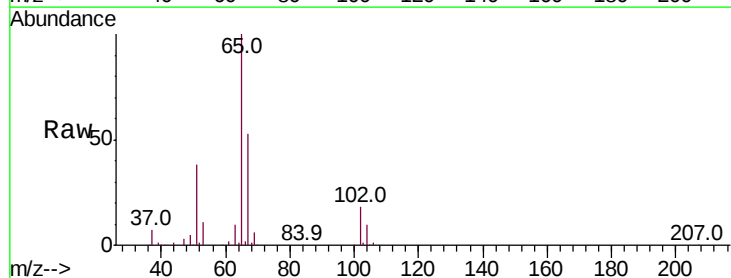


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

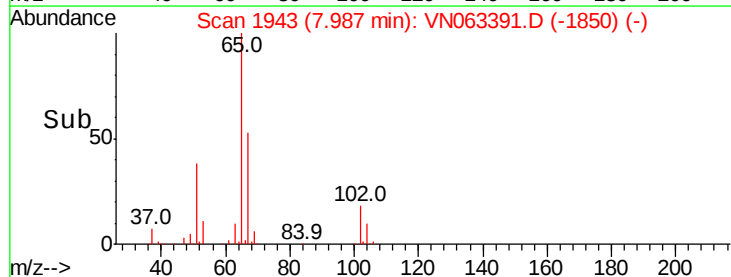
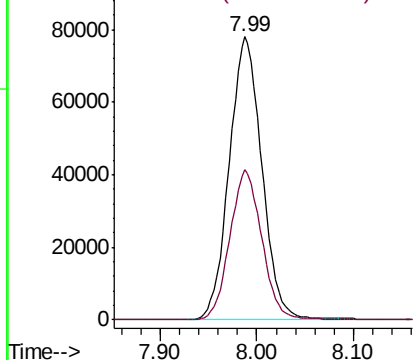


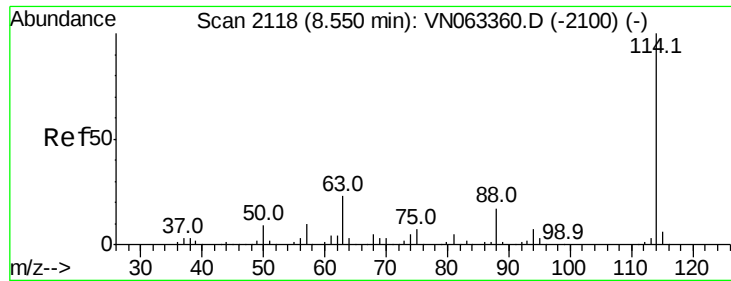
#33
1,2-Dichloroethane-d4
Concen: 47.453 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063391.D
Acq: 17 Sep 2020 2:39

Tgt Ion: 65 Resp: 183037
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.2



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# 2118

Delta R.T. -0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#18

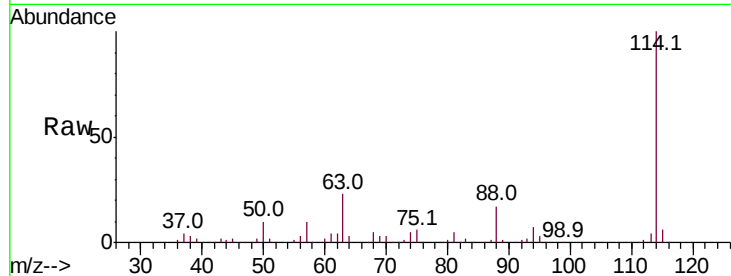
Tot Ion:114 Resp: 423655

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.4

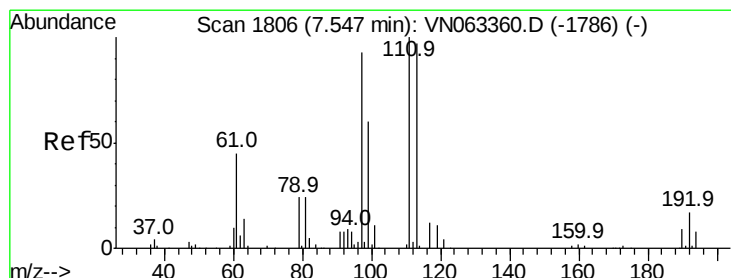
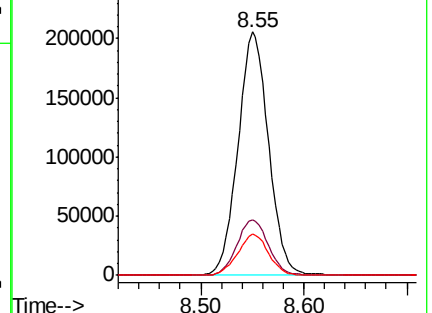
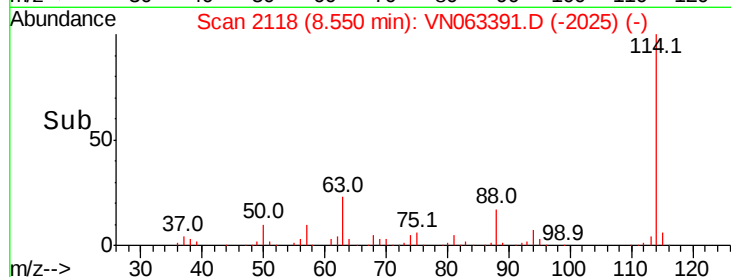
88 16.7 0.0 33.2



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: 46.477 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

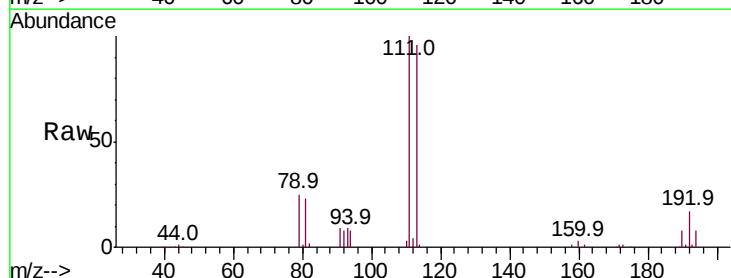
Tgt Ion:113 Resp: 136312

Ion Ratio Lower Upper

113 100

111 101.3 82.9 124.3

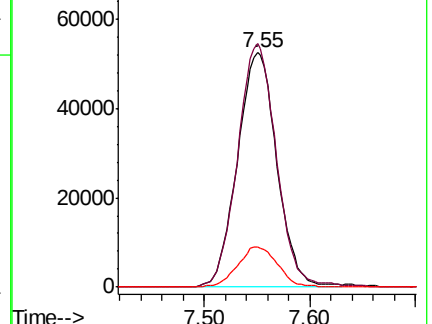
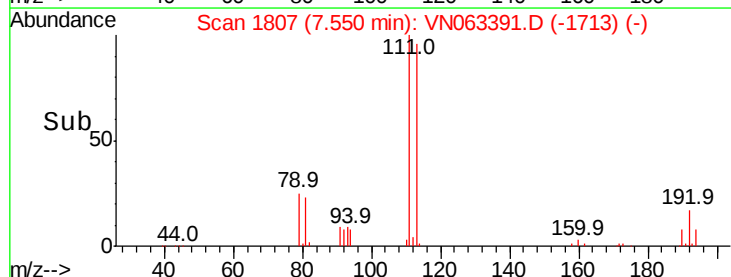
192 17.4 13.9 20.9

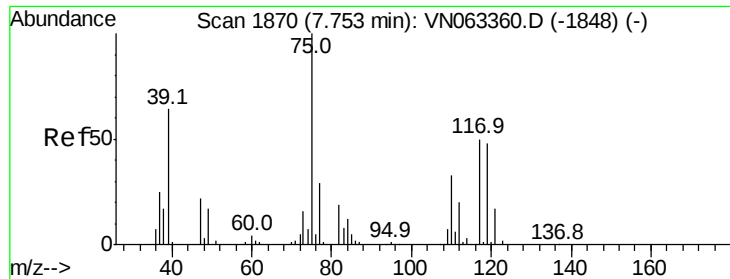


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.712 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063391.D

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PB131646ZHE#18

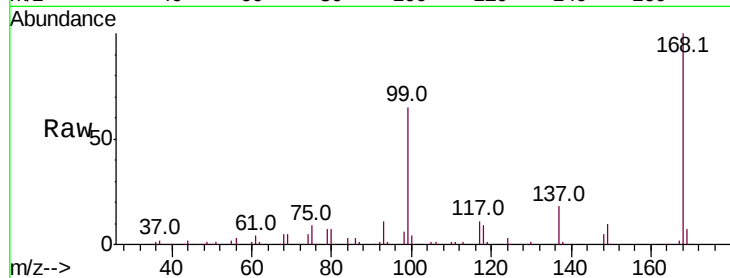
Tot Ion: 75 Resp: 21268

Ion Ratio Lower Upper

75 100

110 10.5 16.5 49.5#

77 0.0 24.6 36.8#



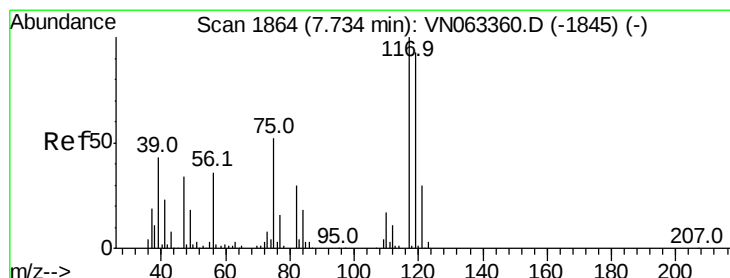
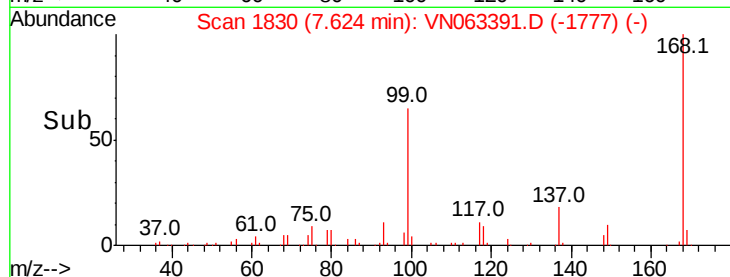
Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)

7.62

Time-->



#38

Carbon Tetrachloride

Concen: 5.508 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

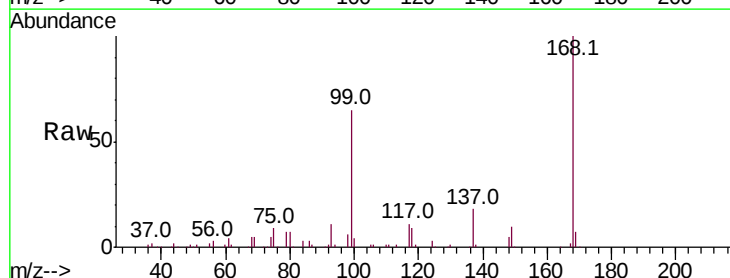
Tgt Ion: 117 Resp: 25379

Ion Ratio Lower Upper

117 100

119 5.7 74.5 111.7#

121 0.0 24.1 36.1#



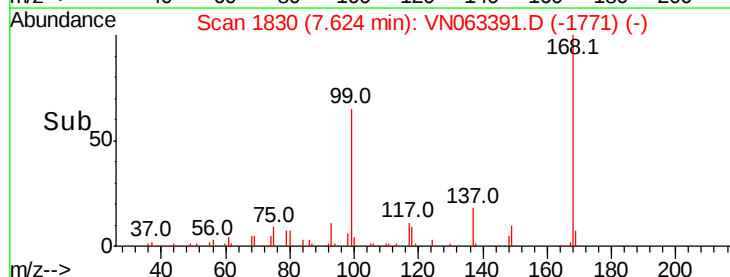
Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

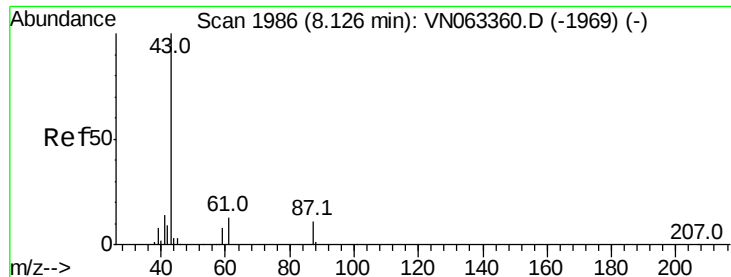
Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

7.62

Time-->





#43

Isopropyl Acetate

Concen: 11.151 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

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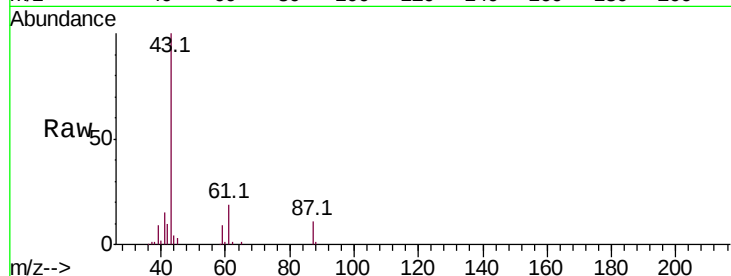
Tot Ion: 43 Resp: 88325

Ion Ratio Lower Upper

43 100

61 17.8 14.2 21.2

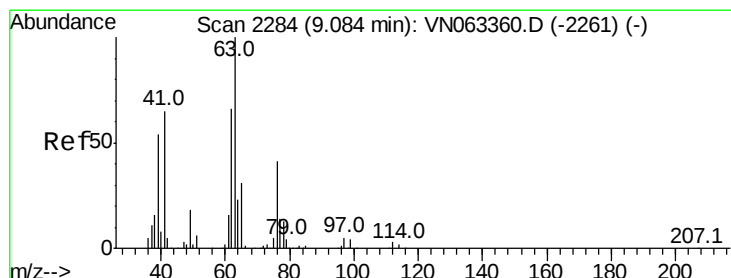
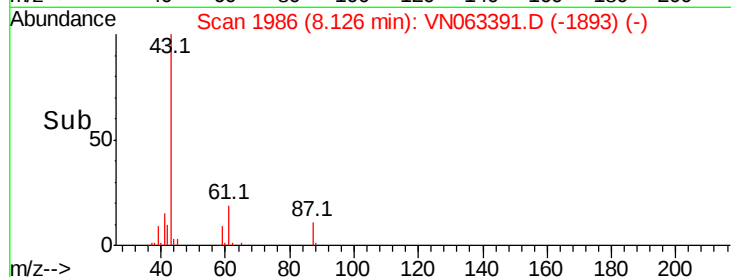
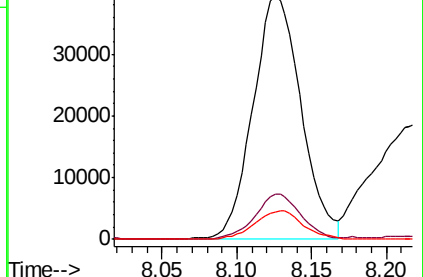
87 11.7 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.551 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063391.D

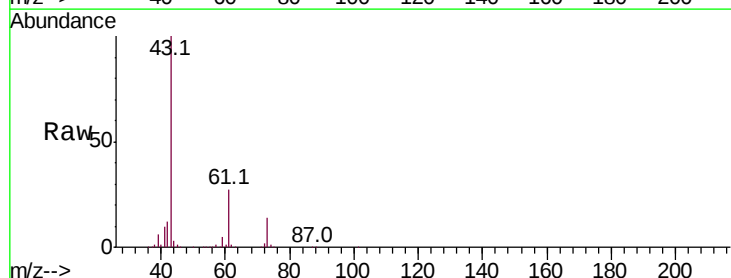
Acq: 17 Sep 2020 2:39

Tgt Ion: 63 Resp: 1934

Ion Ratio Lower Upper

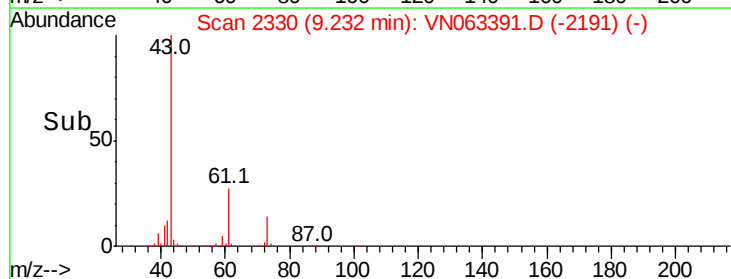
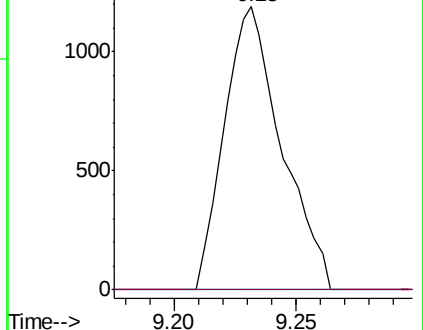
63 100

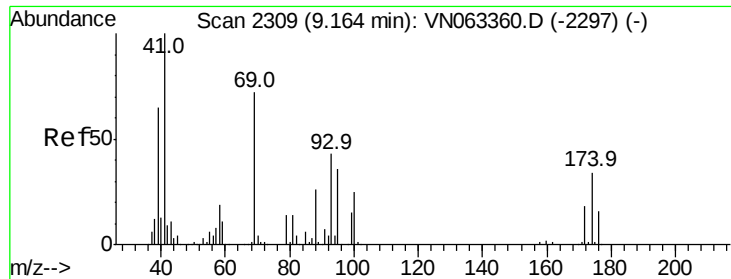
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

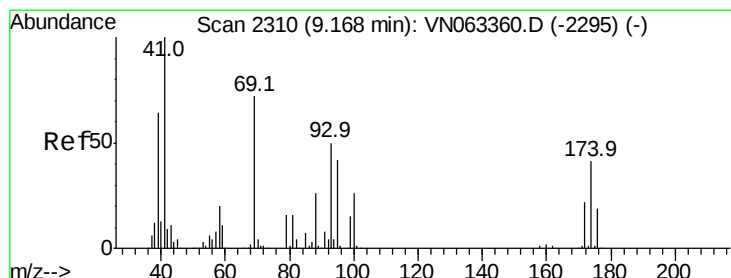
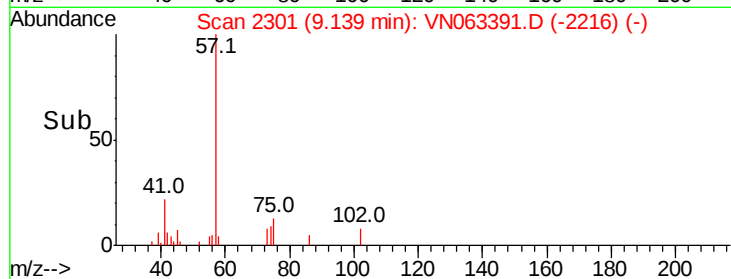
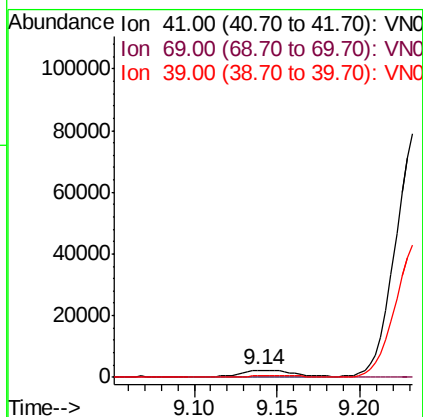
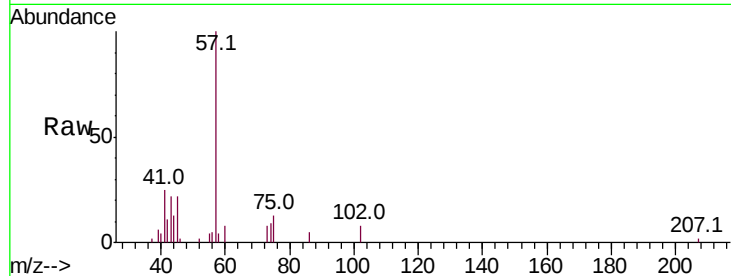




#48
Methyl methacrylate
Concen: 1.432 ug/l
RT: 9.14 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN063391.D
Acq: 17 Sep 2020 2:39

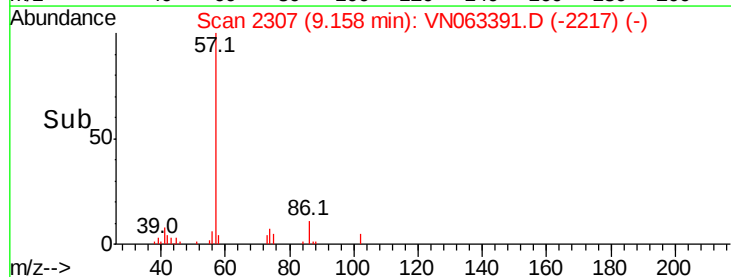
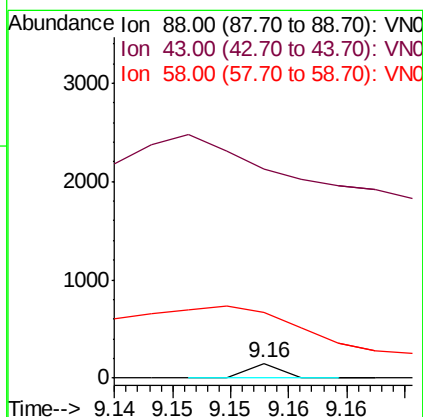
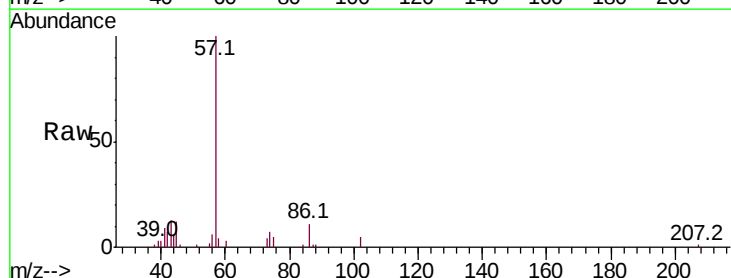
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#18

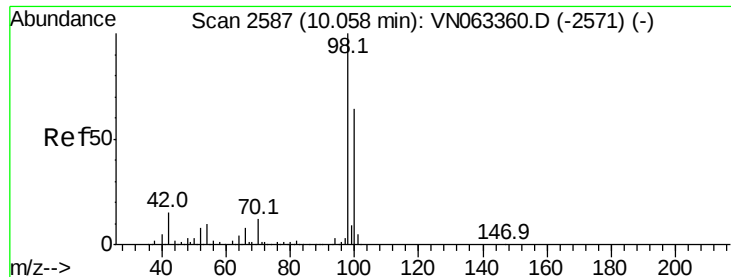
Tot Ion: 41 Resp: 5571
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#49
1,4-Dioxane
Concen: 0.537 ug/l
RT: 9.16 min Scan# 2307
Delta R.T. -0.01 min
Lab File: VN063391.D
Acq: 17 Sep 2020 2:39

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 4430.0 60.0 90.0#





#50

Toluene-d8

Concen: 49.800 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

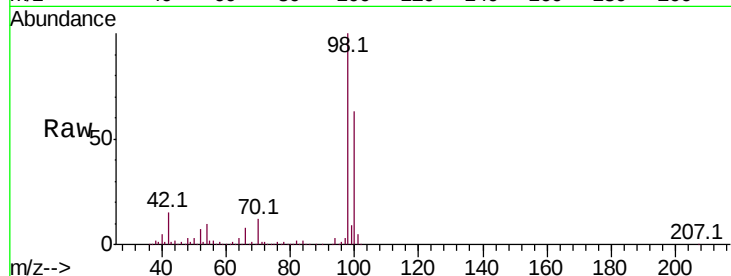
PB131646ZHE#18

Tot Ion: 98 Resp: 549200

Ion Ratio Lower Upper

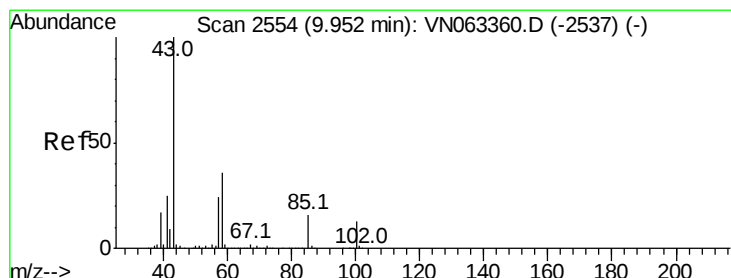
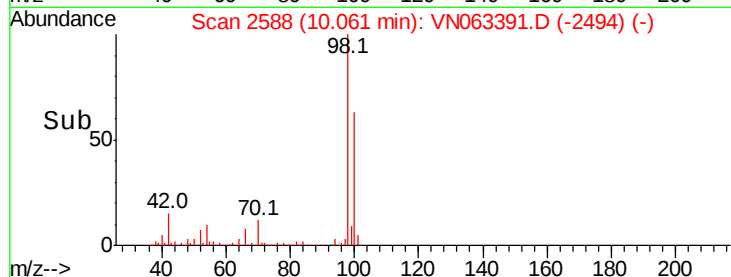
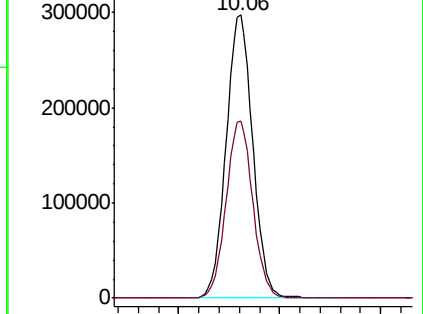
98 100

100 62.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.910 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063391.D

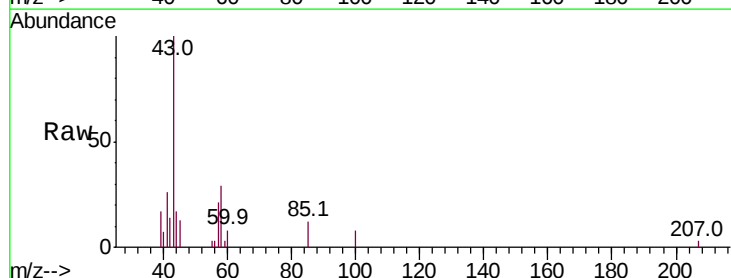
Acq: 17 Sep 2020 2:39

Tgt Ion: 43 Resp: 8470

Ion Ratio Lower Upper

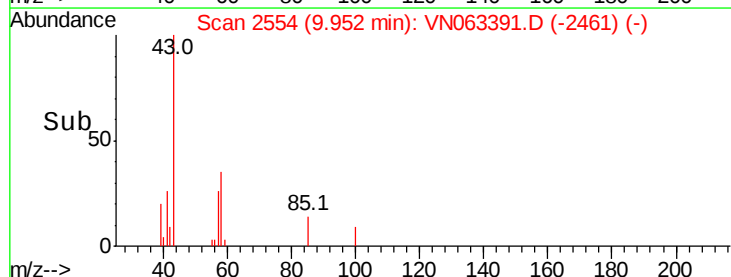
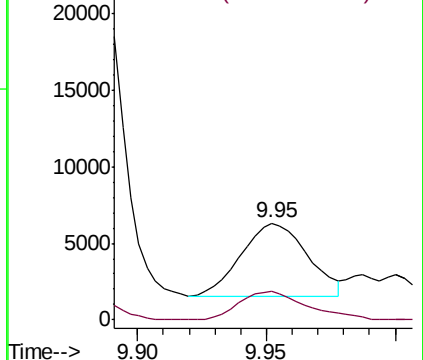
43 100

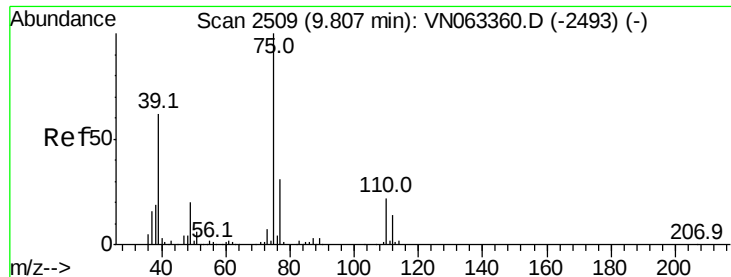
58 40.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.381 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#18

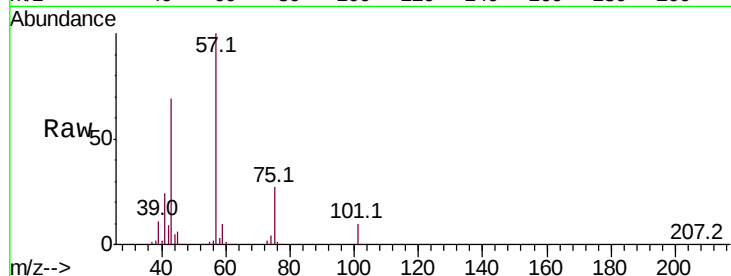
Tot Ion: 75 Resp: 36005

Ion Ratio Lower Upper

75 100

77 0.8 24.6 37.0#

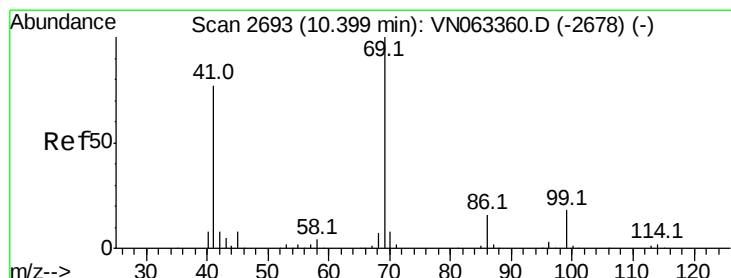
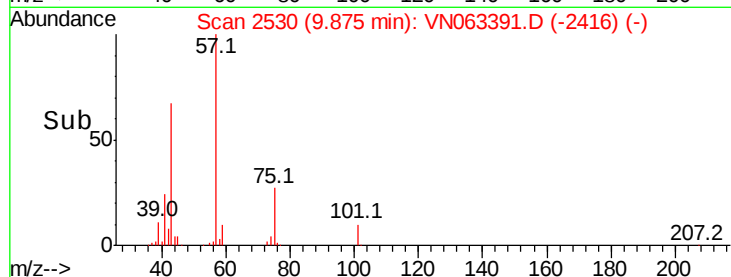
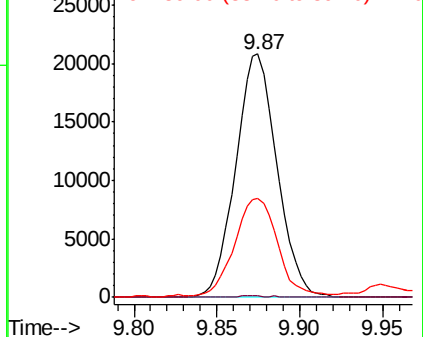
39 39.6 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.284 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

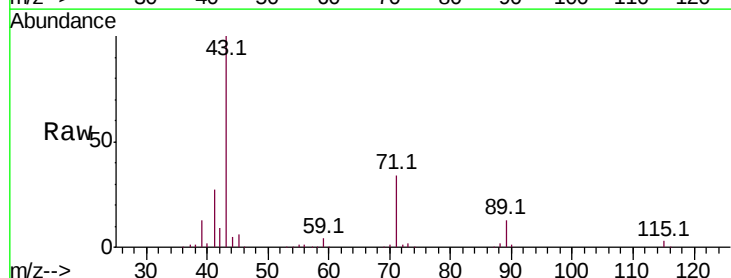
Tgt Ion: 69 Resp: 1364

Ion Ratio Lower Upper

69 100

41 7301.8 61.0 91.6#

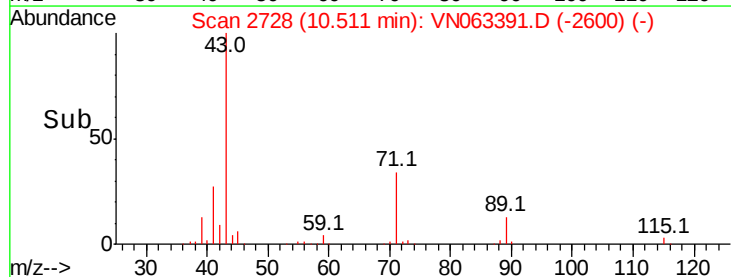
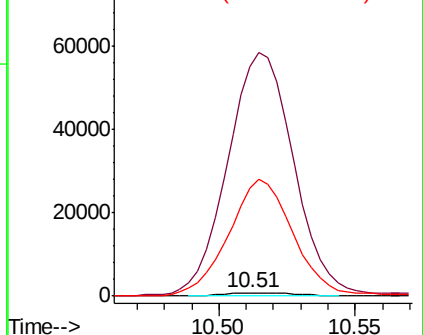
39 3383.9 39.2 58.8#

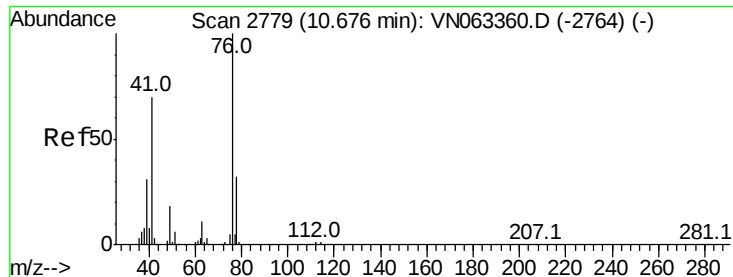


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

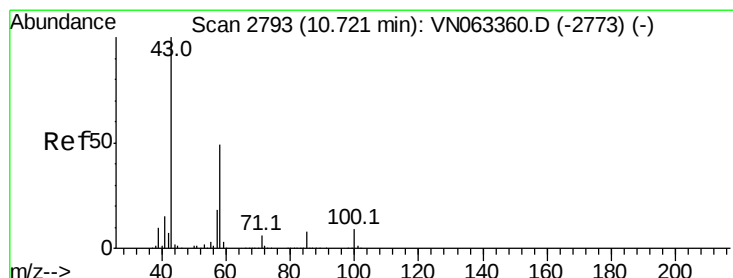
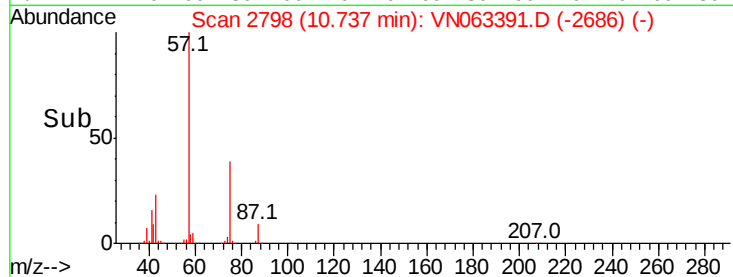
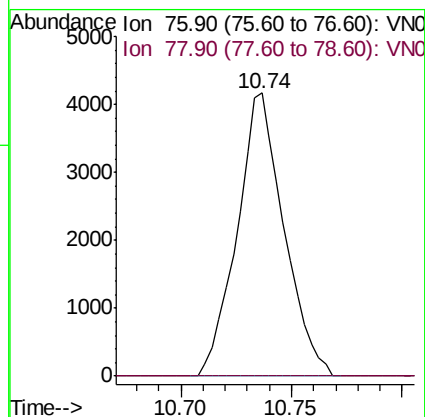
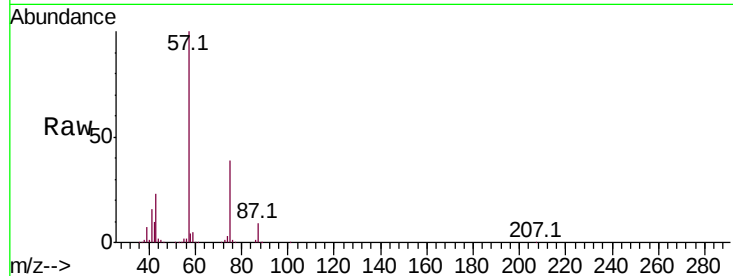




#57
 1,3-Dichloropropane
 Concen: 1.105 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063391.D
 Acq: 17 Sep 2020 2:39

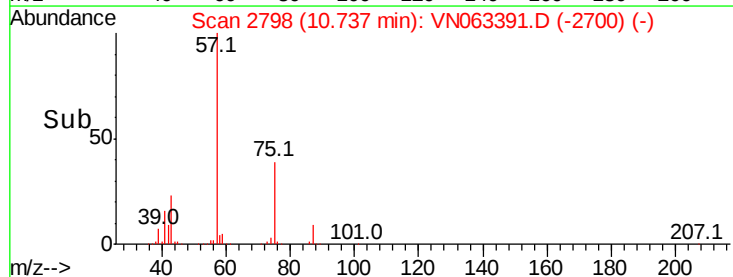
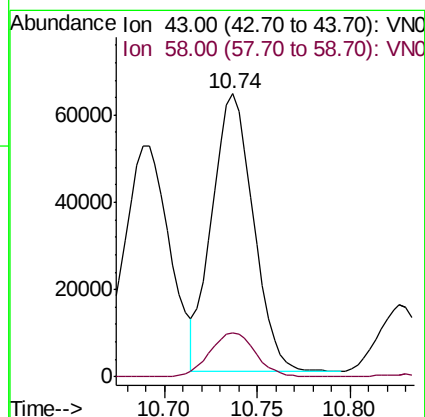
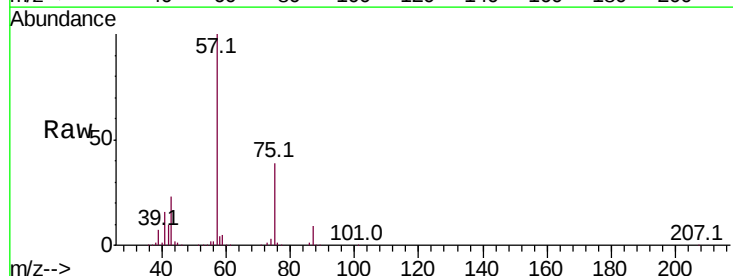
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#18

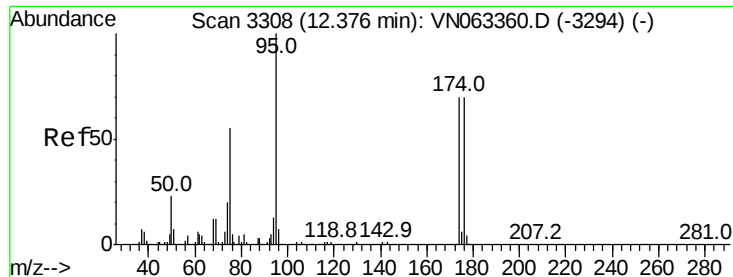
Tot Ion: 76 Resp: 6134
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 30.665 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063391.D
 Acq: 17 Sep 2020 2:39

Tgt Ion: 43 Resp: 98515
 Ion Ratio Lower Upper
 43 100
 58 17.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.291 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#18

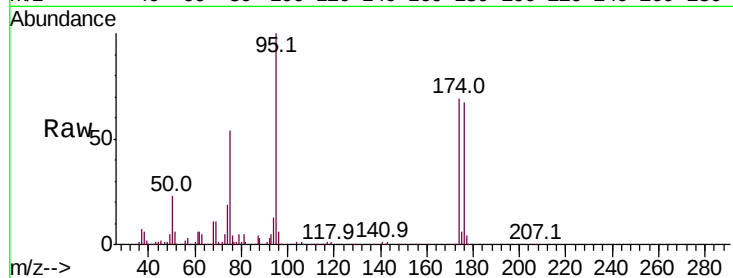
Tot Ion: 95 Resp: 219482

Ion Ratio Lower Upper

95 100

174 68.6 0.0 140.8

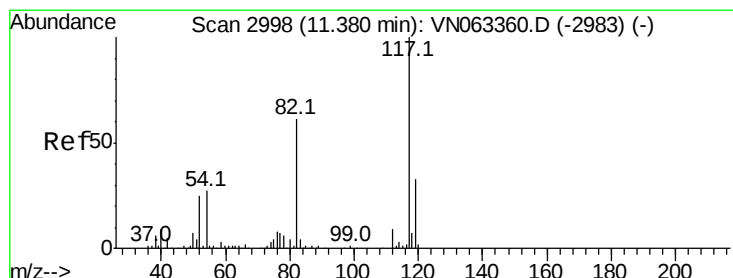
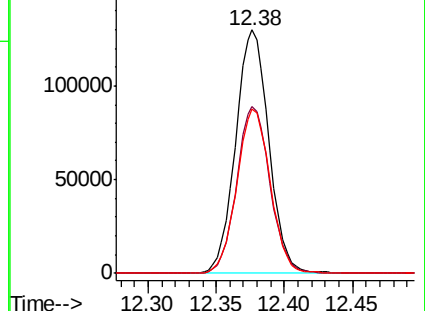
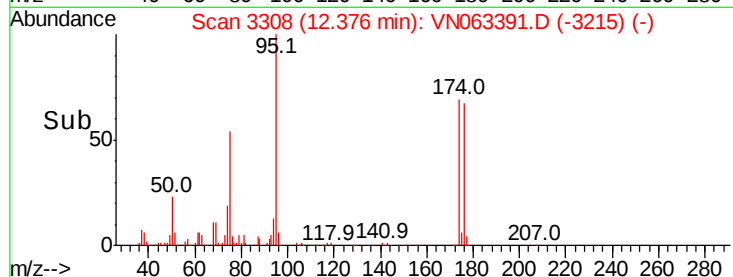
176 68.0 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063391.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063391.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063391.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

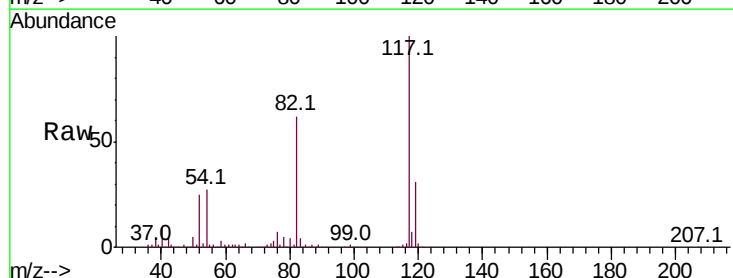
Tgt Ion: 117 Resp: 419356

Ion Ratio Lower Upper

117 100

82 62.0 49.2 73.8

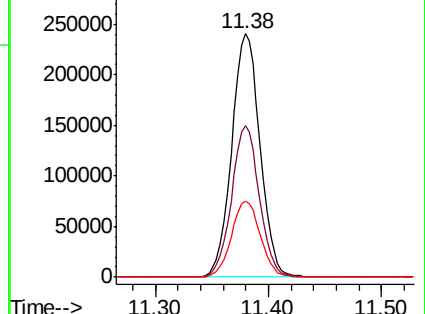
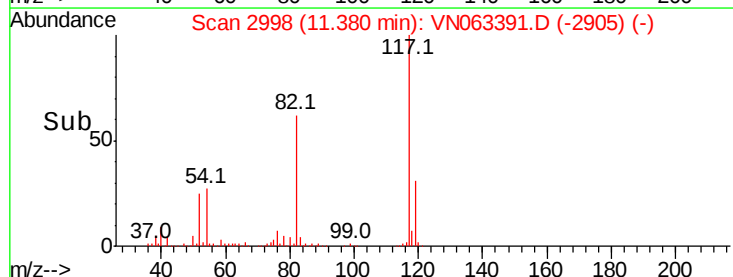
119 31.2 26.2 39.4

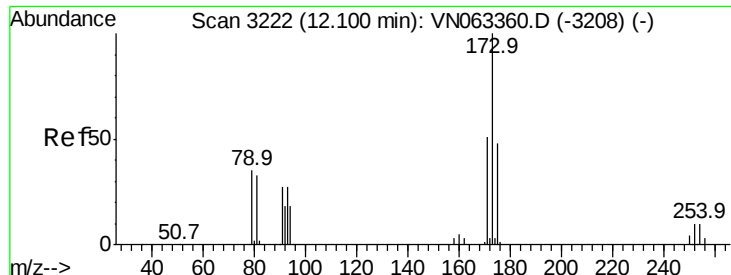


Abundance Ion 116.90 (116.60 to 117.60): VN063391.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063391.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063391.D (-2905) (-)





#71

Bromoform

Concen: 0.353 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#18

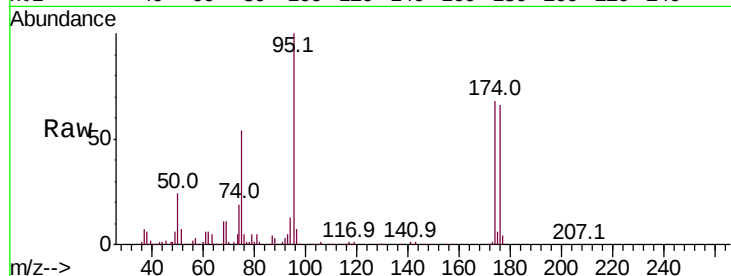
Tot Ion:173 Resp: 859

Ion Ratio Lower Upper

173 100

175 1222.0 24.0 72.0#

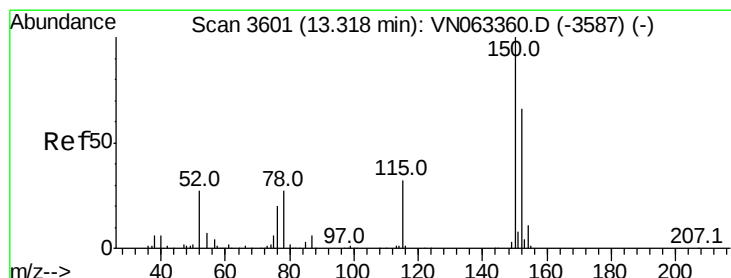
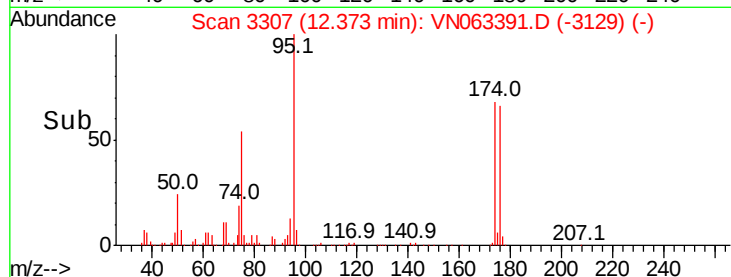
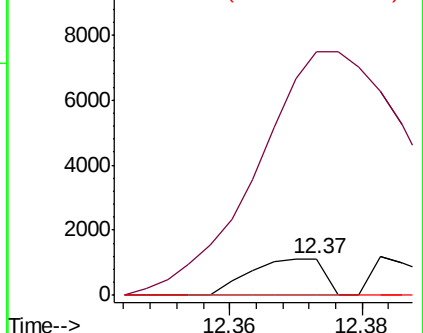
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

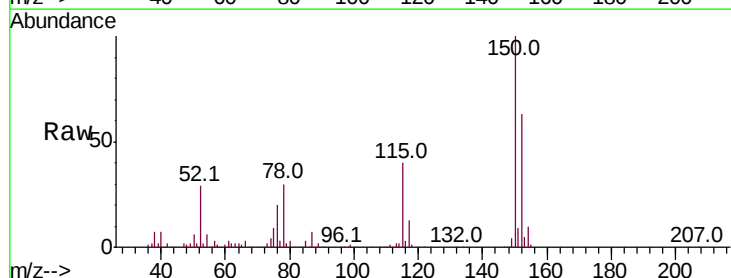
Tgt Ion:152 Resp: 182803

Ion Ratio Lower Upper

152 100

115 63.1 32.2 96.6

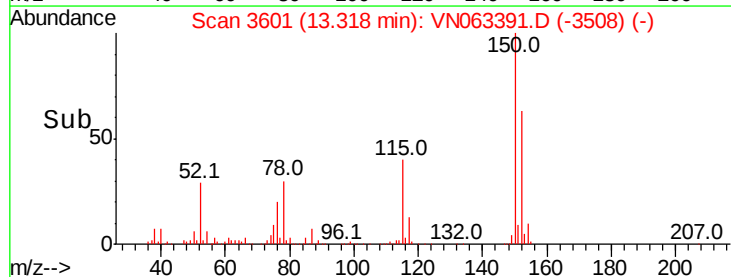
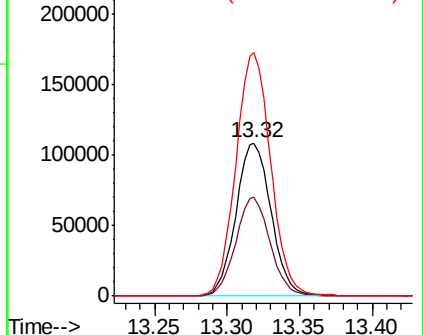
150 157.8 0.0 343.4

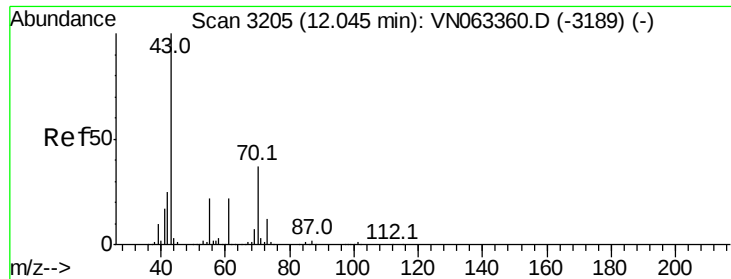


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.507 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#18

Tot Ion: 43 Resp: 3513

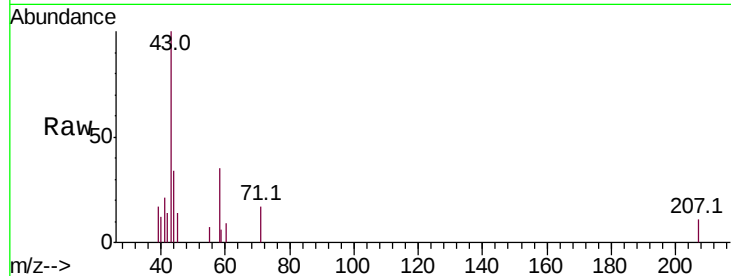
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 9.8 17.7 26.5#

61 0.0 17.4 26.2#

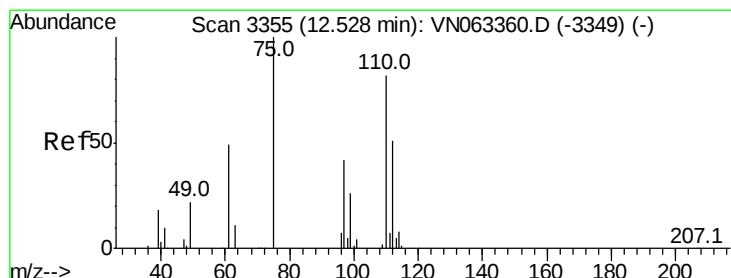
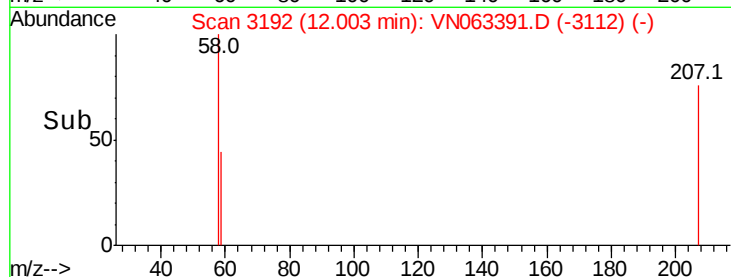
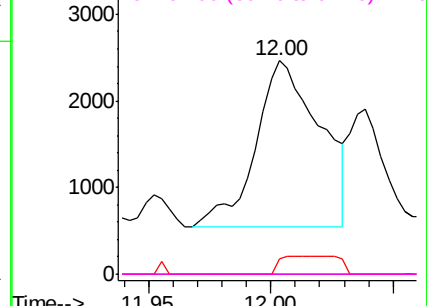


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.396 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063391.D

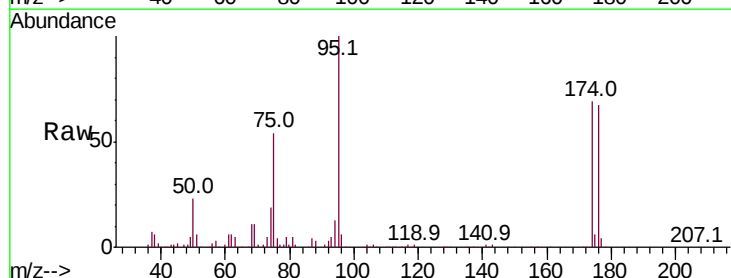
Acq: 17 Sep 2020 2:39

Tgt Ion: 75 Resp: 119432

Ion Ratio Lower Upper

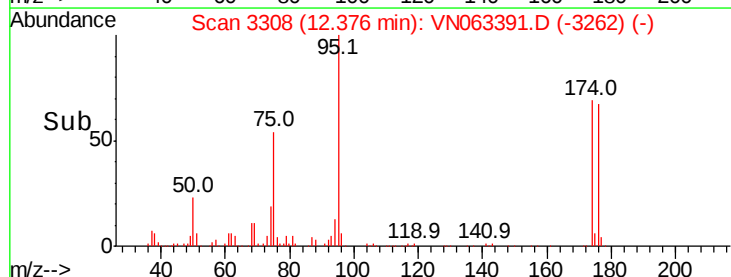
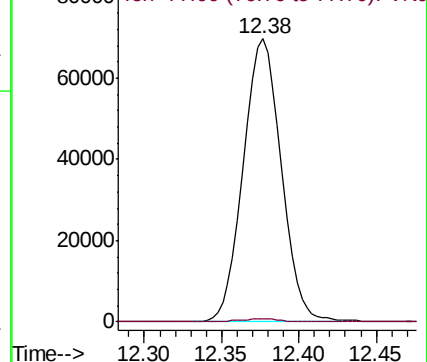
75 100

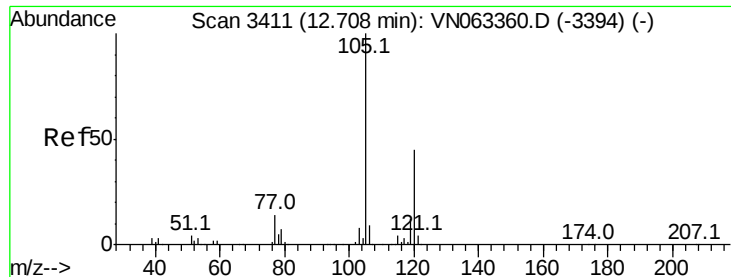
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.886 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

Instrument :

MSVOA_N

ClientSampleId :

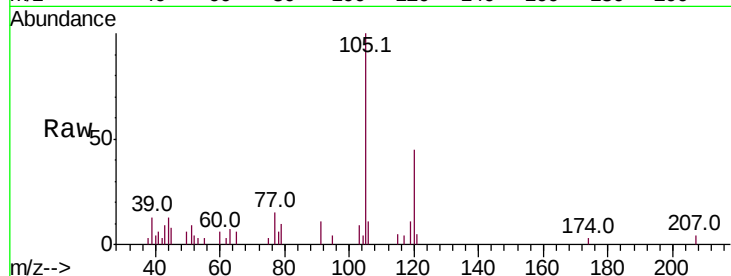
PB131646ZHE#18

Tot Ion:105 Resp: 10823

Ion Ratio Lower Upper

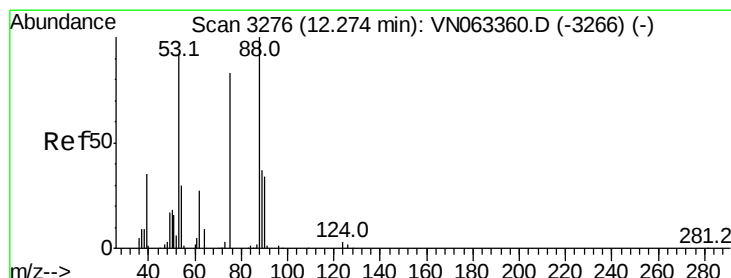
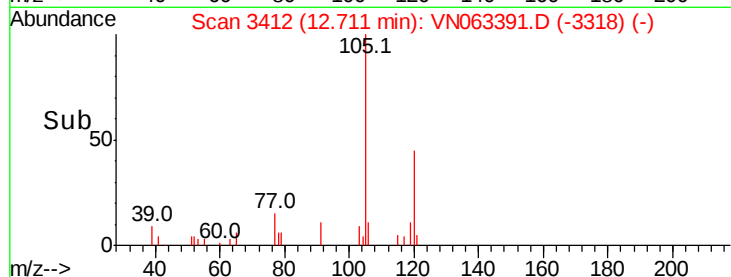
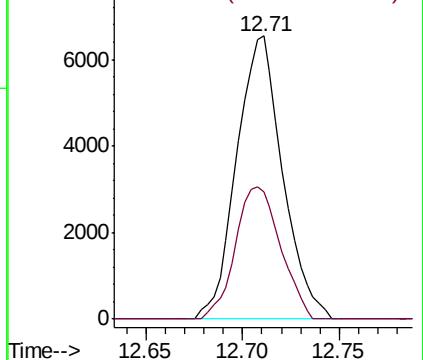
105 100

120 45.8 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 72.368 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063391.D

Acq: 17 Sep 2020 2:39

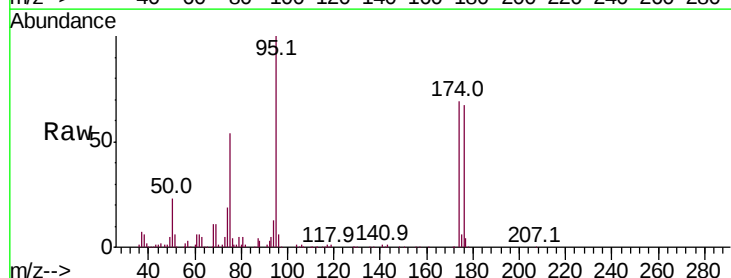
Tgt Ion: 75 Resp: 119432

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

