

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092820\
 Data File : VN063709.D
 Acq On : 28 Sep 2020 16:45
 Operator : JC/MD
 Sample : PB131914ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131914ZHE#04

Quant Time: Sep 29 00:40:27 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	218774	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	406310	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	434405	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182034	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	189705	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
35) Dibromofluoromethane	7.55	113	138275	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.06	98	541059	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	12.38	95	214628	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	

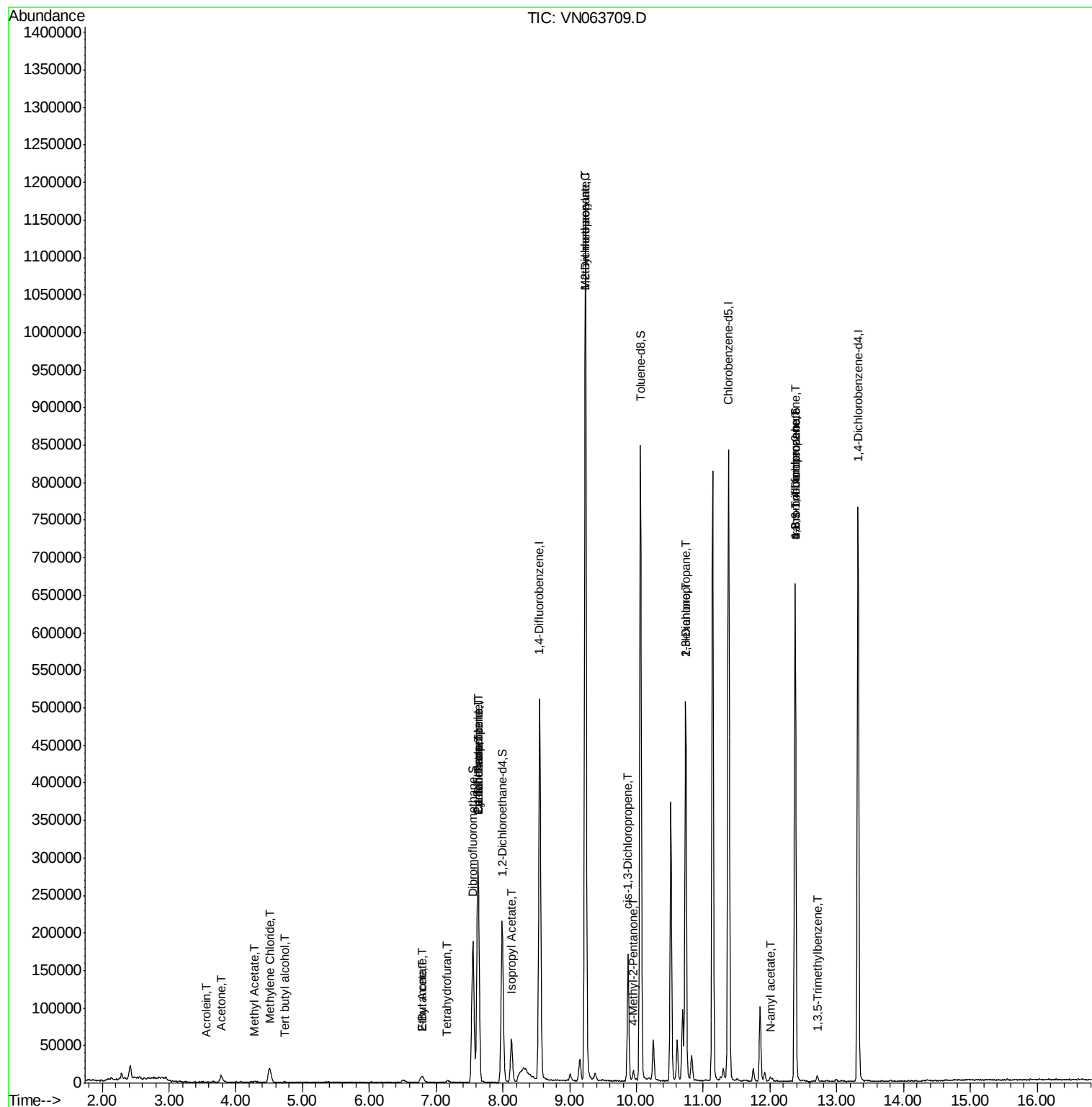
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	622	1.206	ug/l #	72
13) Acrolein	3.56	56	104	0.544	ug/l #	13
16) Acetone	3.78	43	17104	14.291	ug/l	94
18) Methyl Acetate	4.28	43	2136	0.703	ug/l	96
20) Methylene Chloride	4.51	84	13829	4.560	ug/l #	90
25) 2-Butanone	6.80	43	10098	5.486	ug/l	94
29) Tetrahydrofuran	7.18	42	1366	1.087	ug/l #	72
31) Cyclohexane	7.62	56	6249	1.215	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	20371	4.706	ug/l #	52
37) Ethyl Acetate	6.80	43	10098	2.377	ug/l #	70
38) Carbon Tetrachloride	7.63	117	25132	5.688	ug/l #	18
43) Isopropyl Acetate	8.13	43	70864	9.328	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1520	0.452	ug/l #	43
48) Methyl methacrylate	9.24	41	121366	32.518	ug/l #	50
51) 4-Methyl-2-Pentanone	9.95	43	8534	2.007	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	26925	4.976	ug/l #	64
57) 1,3-Dichloropropane	10.74	76	5131	0.964	ug/l #	42
59) 2-Hexanone	10.74	43	80986	26.285	ug/l #	56
74) N-amyl acetate	12.00	43	5158	0.747	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	121433	26.952	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3162	0.260	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	121433	73.891	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

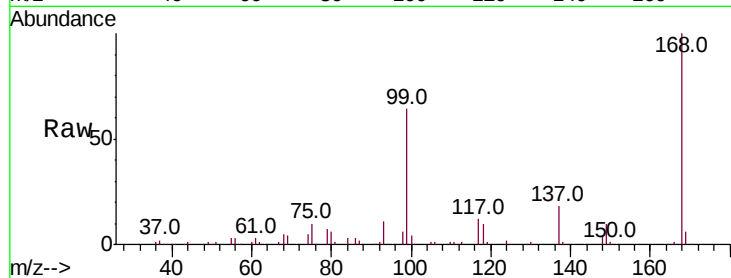
PB131914ZHE#04

Tot Ion:168 Resp: 218774

Ion Ratio Lower Upper

168 100

99 64.3 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

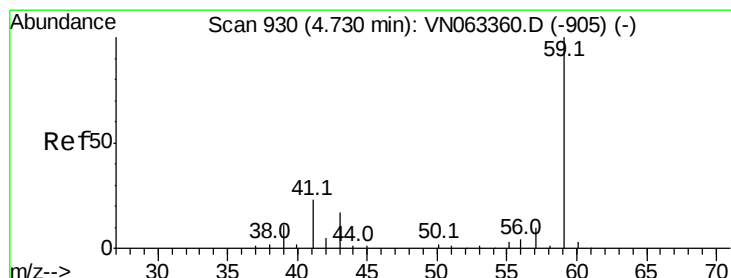
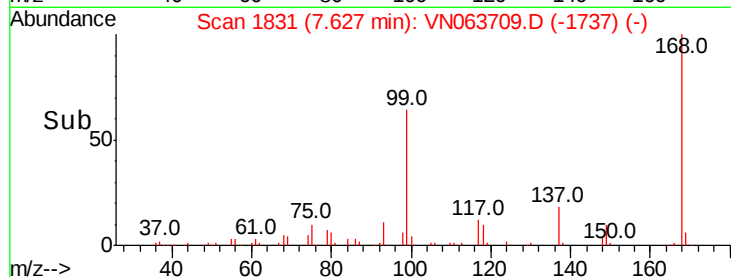
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.206 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063709.D

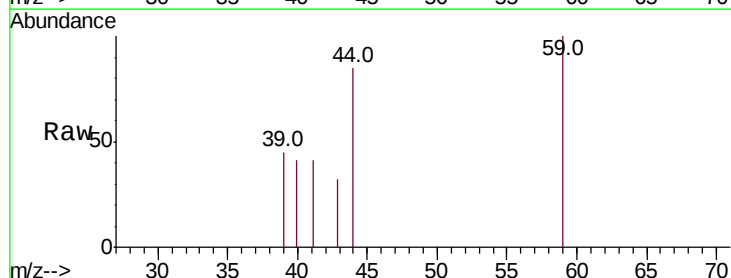
Acq: 28 Sep 2020 16:45

Tgt Ion: 59 Resp: 622

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

4.74

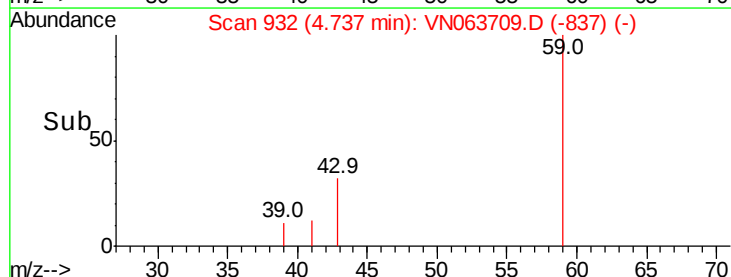
600

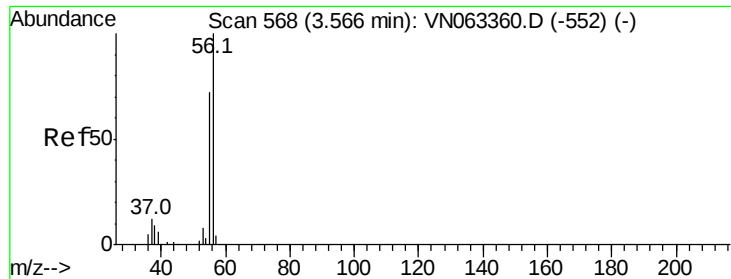
400

200

0

Time--> 4.72 4.74 4.76





#13

Acrolein

Concen: 0.544 ug/l

RT: 3.56 min Scan# 565

Delta R.T. -0.01 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

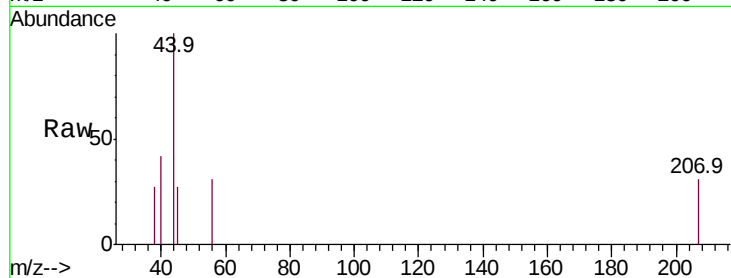
PB131914ZHE#04

Tot Ion: 56 Resp: 104

Ion Ratio Lower Upper

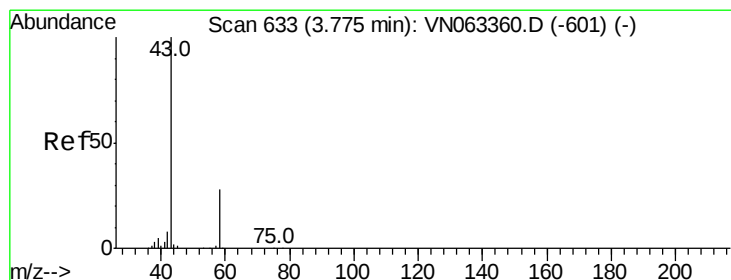
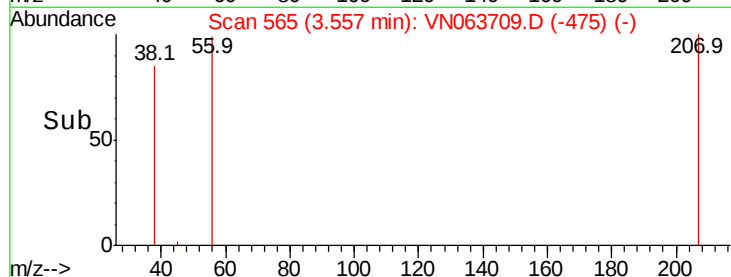
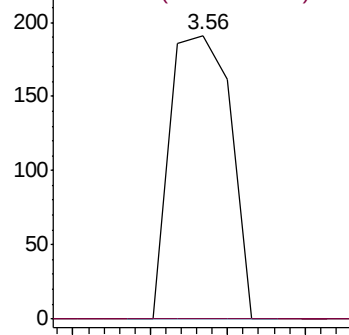
56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 14.291 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063709.D

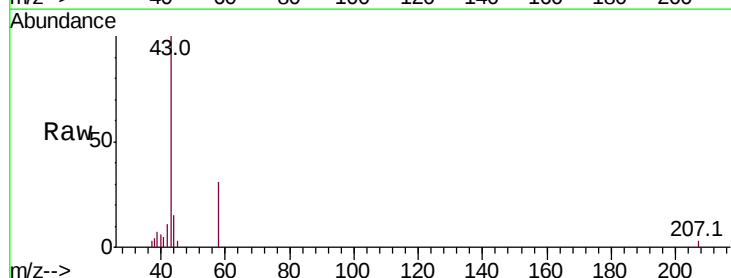
Acq: 28 Sep 2020 16:45

Tgt Ion: 43 Resp: 17104

Ion Ratio Lower Upper

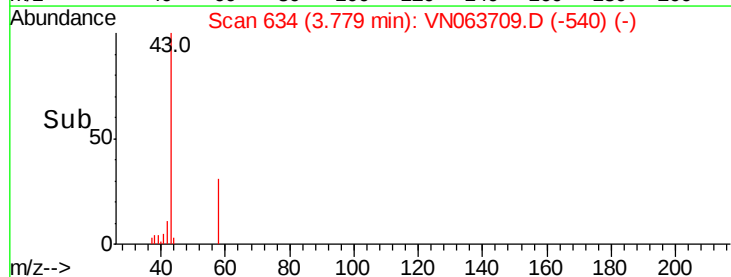
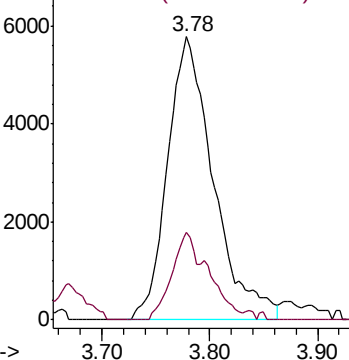
43 100

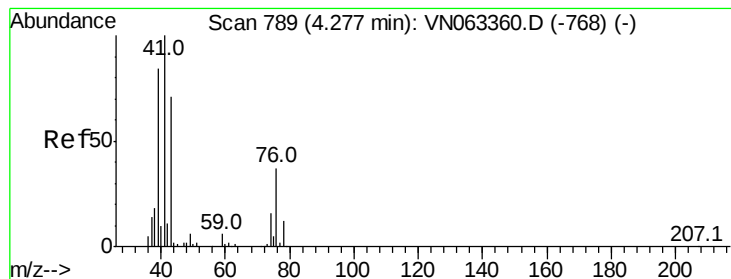
58 31.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.703 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

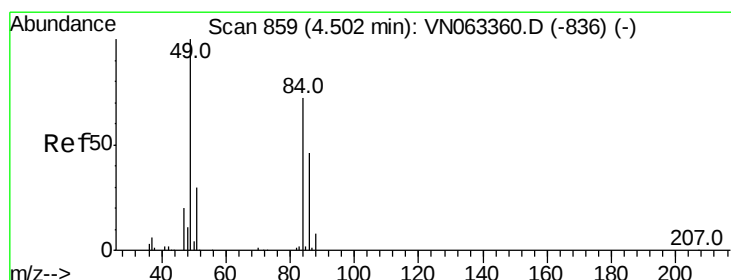
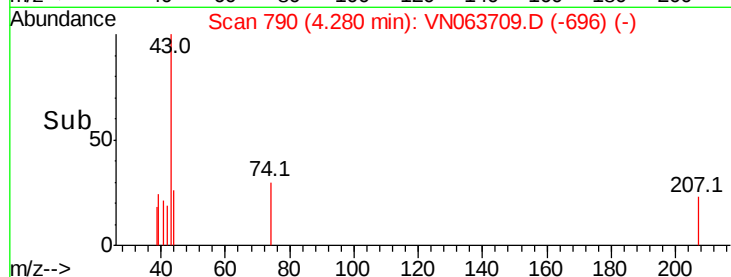
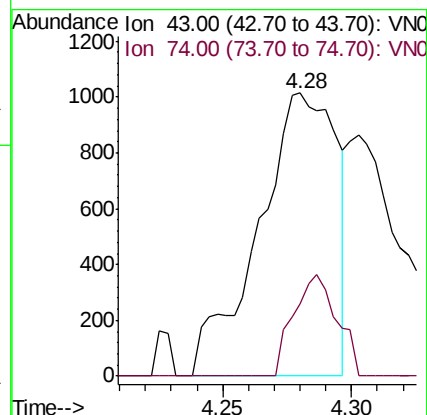
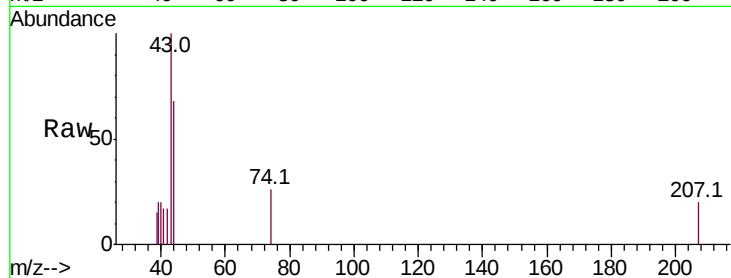
PB131914ZHE#04

Tot Ion: 43 Resp: 2136

Ion Ratio Lower Upper

43 100

74 19.9 17.4 26.2



#20

Methylene Chloride

Concen: 4.560 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Tgt Ion: 84 Resp: 13829

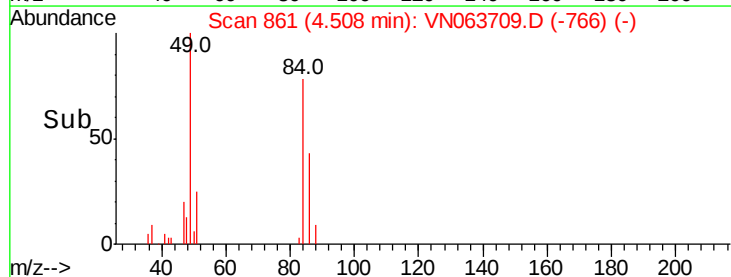
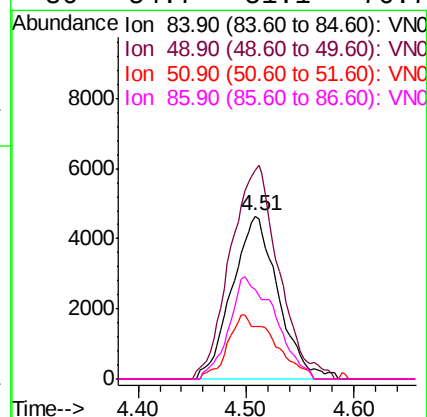
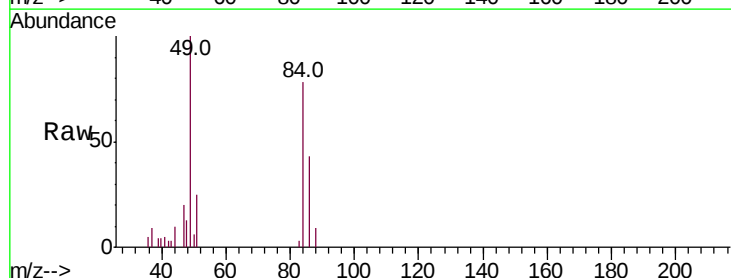
Ion Ratio Lower Upper

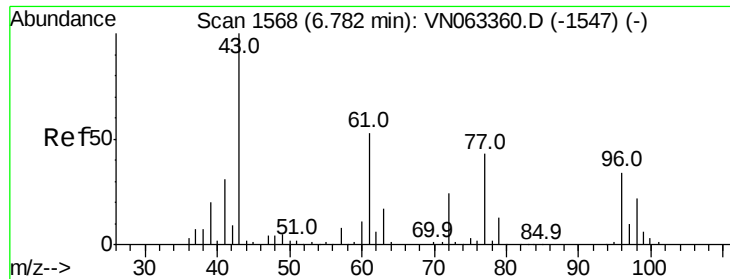
84 100

49 128.0 110.7 166.1

51 31.9 32.9 49.3#

86 54.7 51.1 76.7

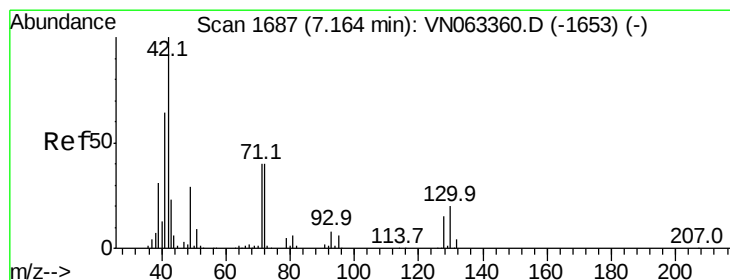
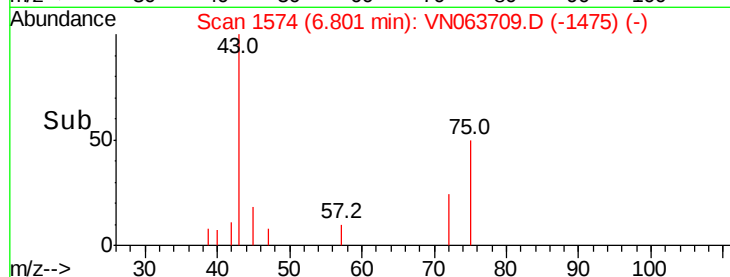
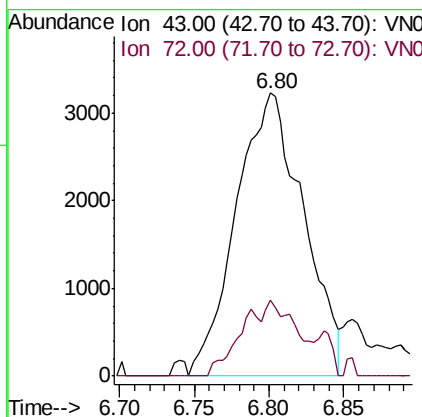
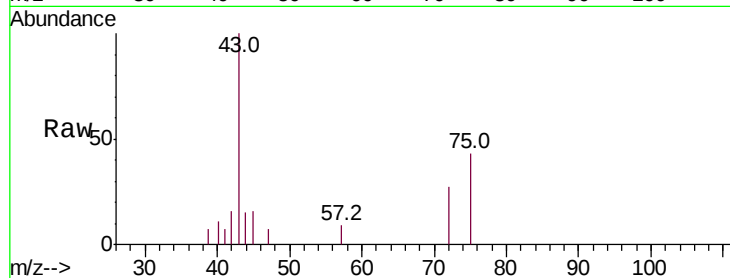




#25
 2-Butanone
 Concen: 5.486 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. 0.02 min
 Lab File: VN063709.D
 Acq: 28 Sep 2020 16:45

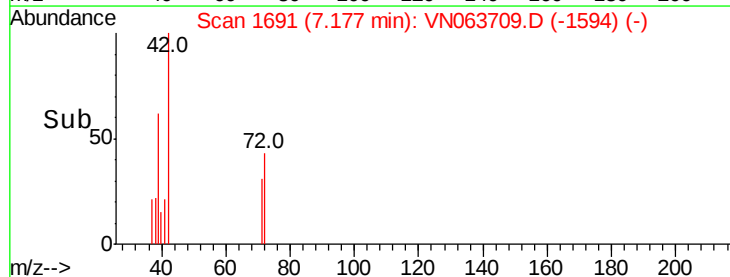
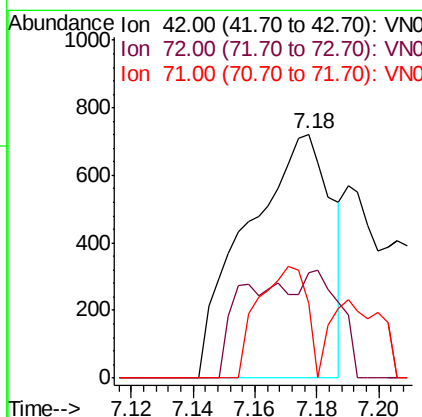
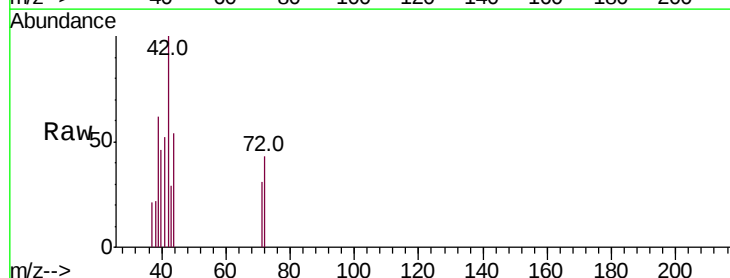
Instrument :
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 ClientSampleId :
 PB131914ZHE#04

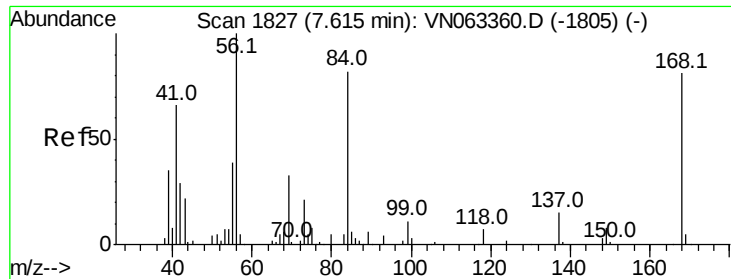
Tot Ion: 43 Resp: 10098
 Ion Ratio Lower Upper
 43 100
 72 26.8 19.2 28.8



#29
 Tetrahydrofuran
 Concen: 1.087 ug/l
 RT: 7.18 min Scan# 1691
 Delta R.T. 0.01 min
 Lab File: VN063709.D
 Acq: 28 Sep 2020 16:45

Tgt Ion: 42 Resp: 1366
 Ion Ratio Lower Upper
 42 100
 72 18.4 32.1 48.1#
 71 26.1 31.2 46.8#

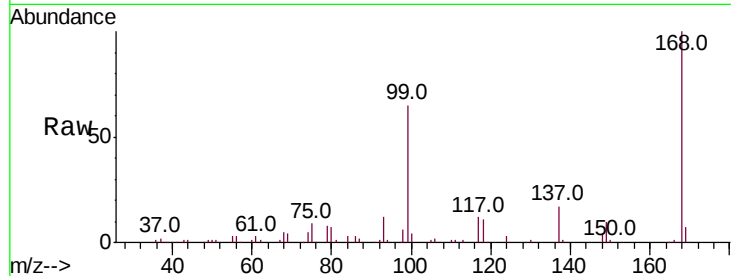




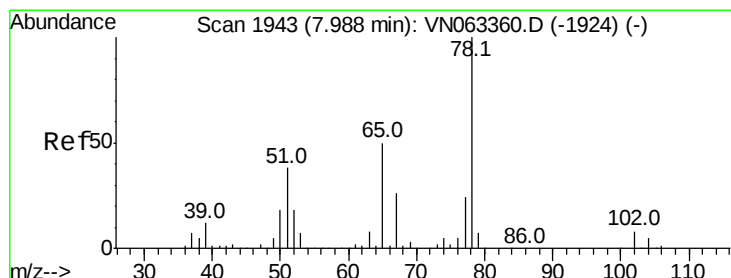
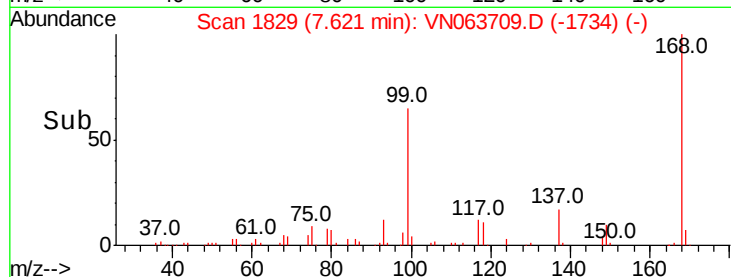
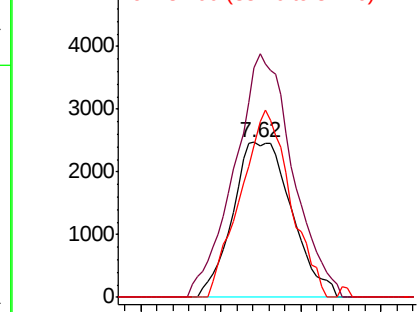
#31
Cyclohexane
Concen: 1.215 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063709.D
Acq: 28 Sep 2020 16:45

Instrument :
MSVOA_N
ClientSampleId :
PB131914ZHE#04

Tot Ion: 56 Resp: 6249
Ion Ratio Lower Upper
56 100
69 148.8 26.1 39.1#
84 97.7 65.4 98.2

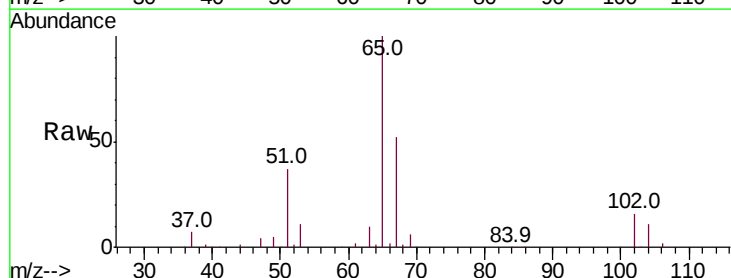


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

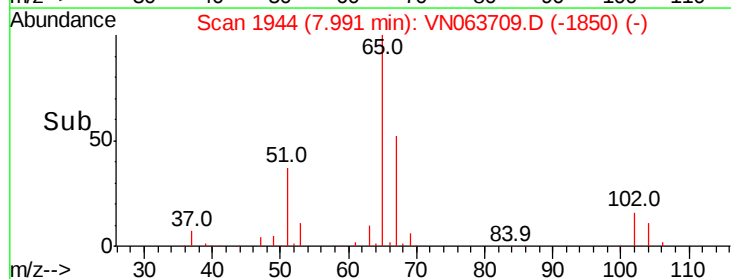
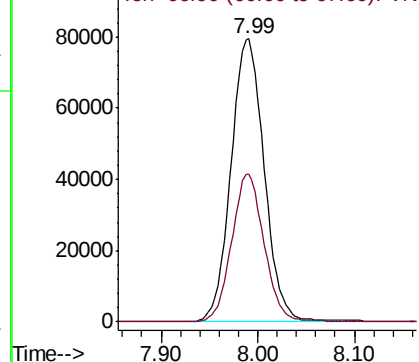


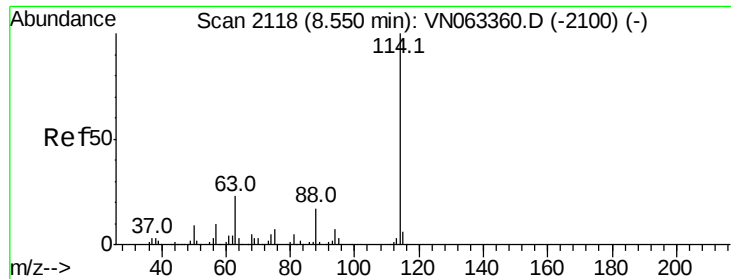
#33
1,2-Dichloroethane-d4
Concen: 50.940 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063709.D
Acq: 28 Sep 2020 16:45

Tgt Ion: 65 Resp: 189705
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.2



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

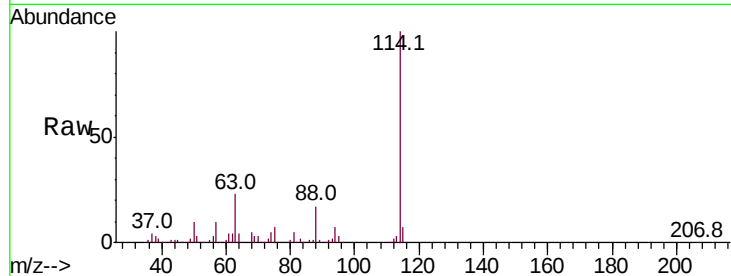




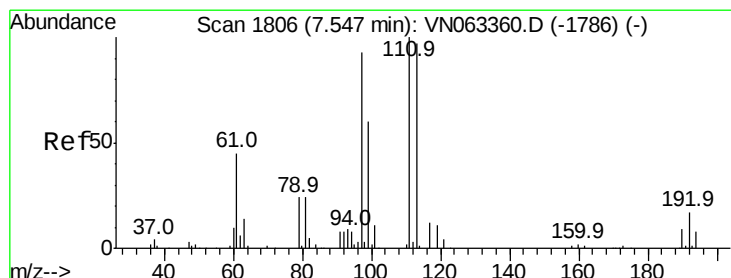
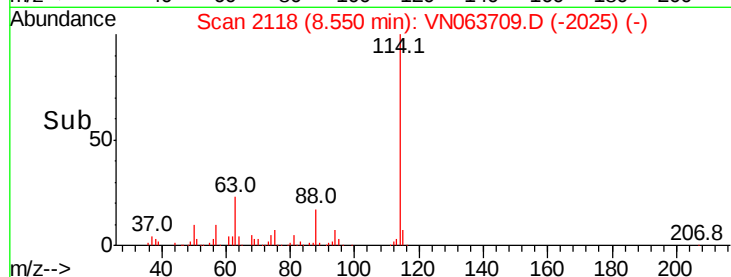
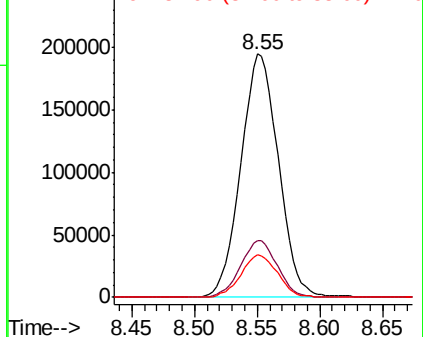
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN063709.D
Acq: 28 Sep 2020 16:45

Instrument :
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PB131914ZHE#04

Tot Ion:114 Resp: 406310
Ion Ratio Lower Upper
114 100
63 23.3 0.0 46.4
88 17.3 0.0 33.2

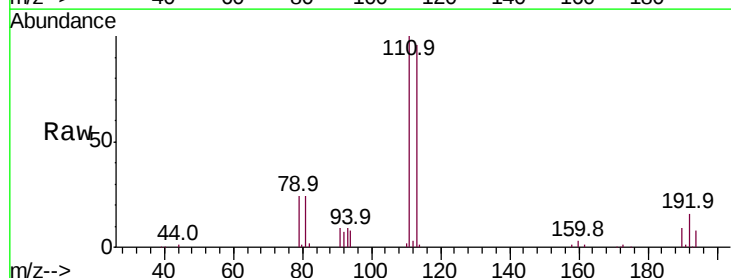


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

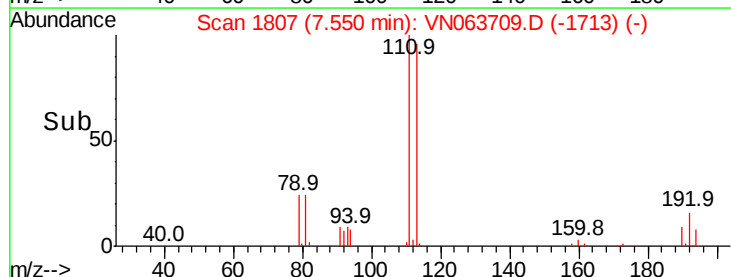
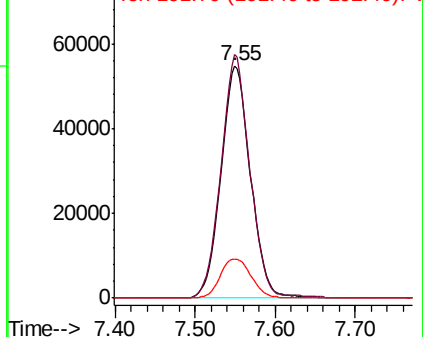


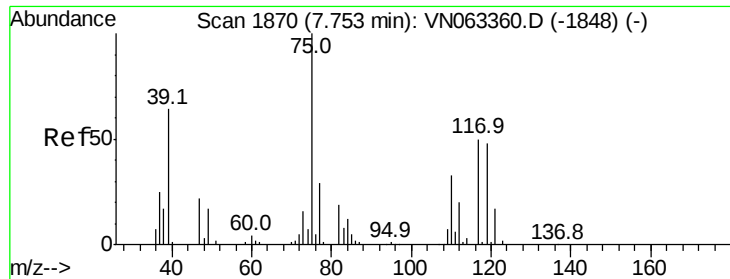
#35
Dibromofluoromethane
Concen: 49.159 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063709.D
Acq: 28 Sep 2020 16:45

Tgt Ion:113 Resp: 138275
Ion Ratio Lower Upper
113 100
111 101.9 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

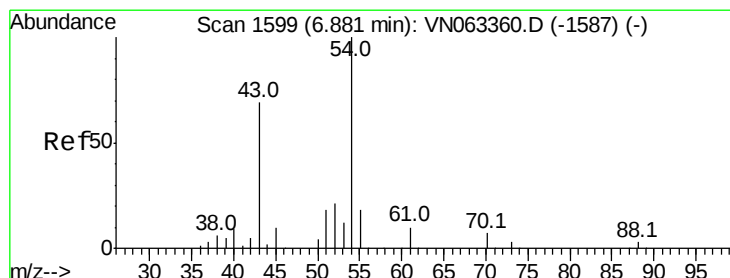
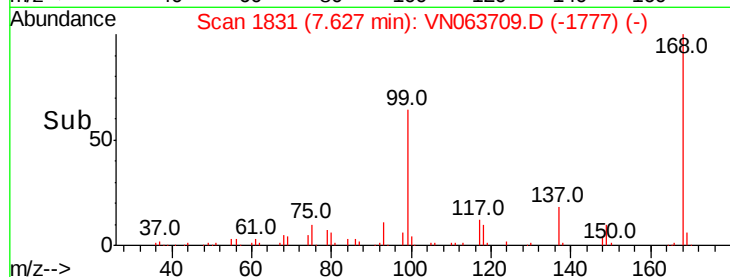
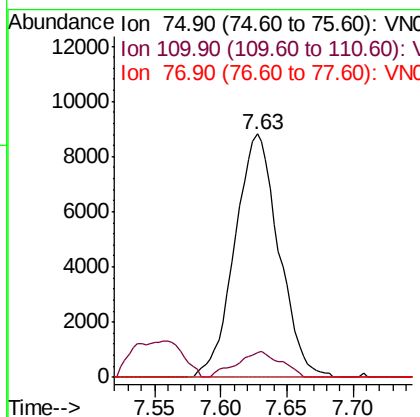
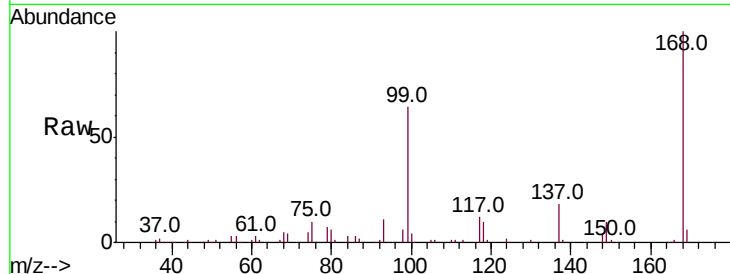




#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063709.D
 Acq: 28 Sep 2020 16:45

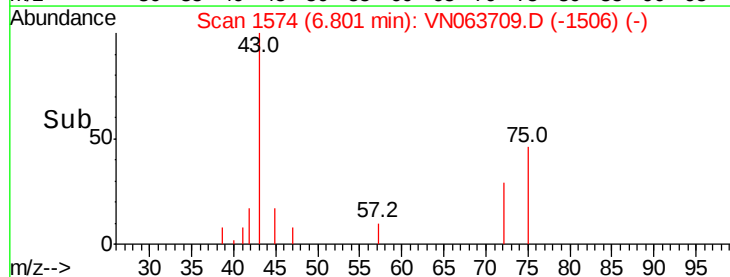
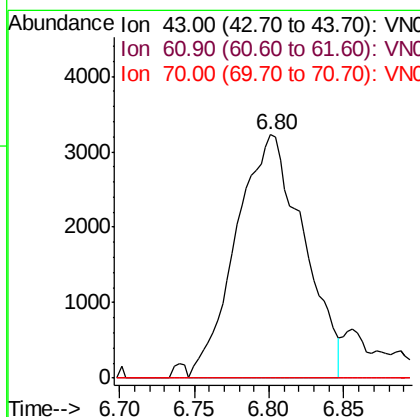
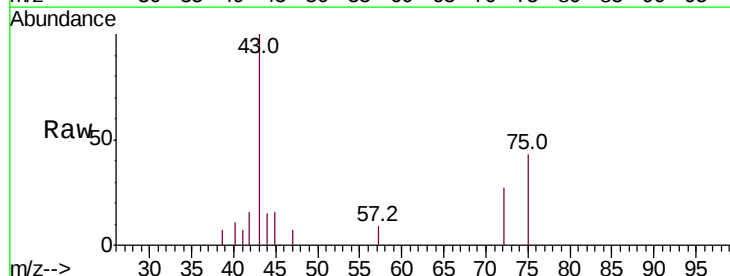
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 ClientSampleId :
 PB131914ZHE#04

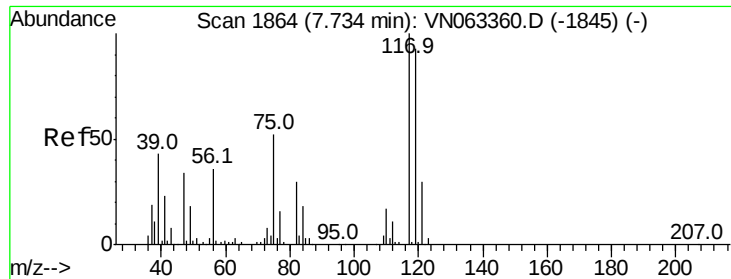
Tot Ion: 75 Resp: 20371
 Ion Ratio Lower Upper
 75 100
 110 10.6 16.5 49.5#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 2.377 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. -0.08 min
 Lab File: VN063709.D
 Acq: 28 Sep 2020 16:45

Tgt Ion: 43 Resp: 10098
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 5.688 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB131914ZHE#04

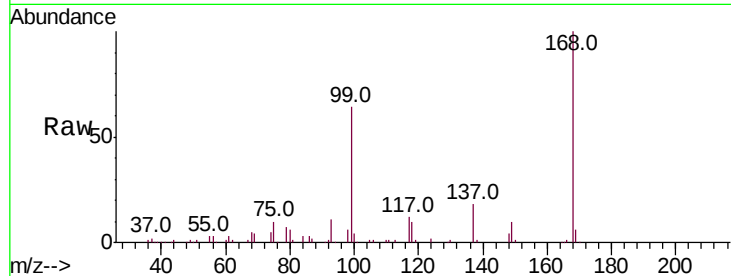
Tot Ion:117 Resp: 25132

Ion Ratio Lower Upper

117 100

119 6.5 74.5 111.7#

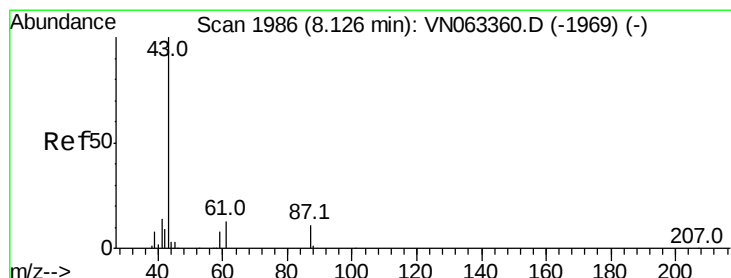
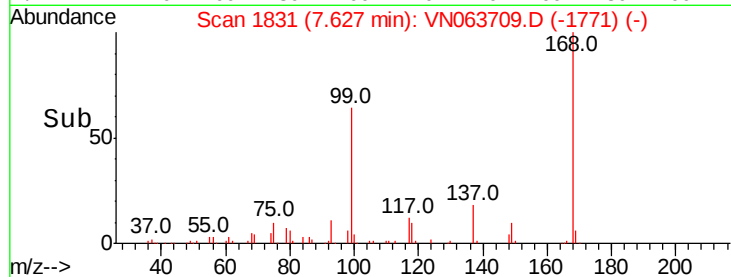
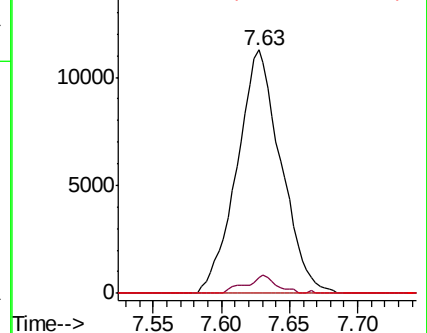
121 0.0 24.1 36.1#



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: 9.328 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

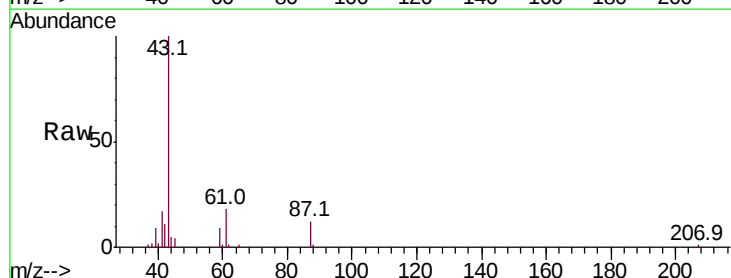
Tgt Ion: 43 Resp: 70864

Ion Ratio Lower Upper

43 100

61 18.0 14.2 21.2

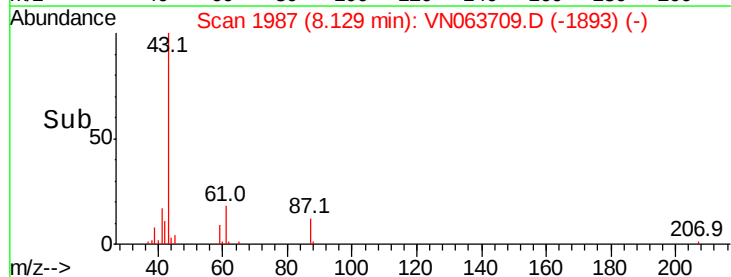
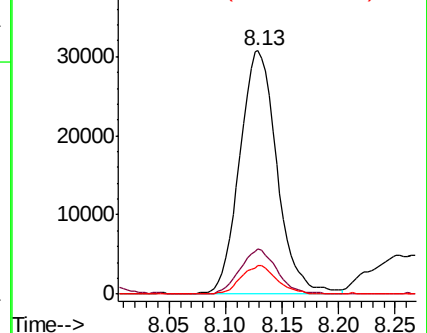
87 11.2 9.0 13.6

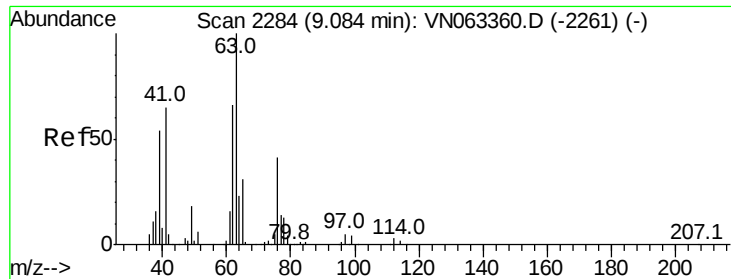


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.452 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

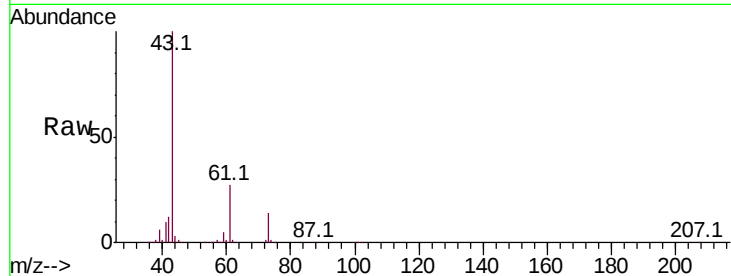
PB131914ZHE#04

Tot Ion: 63 Resp: 1520

Ion Ratio Lower Upper

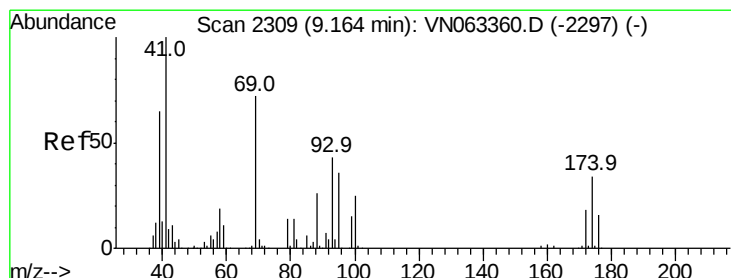
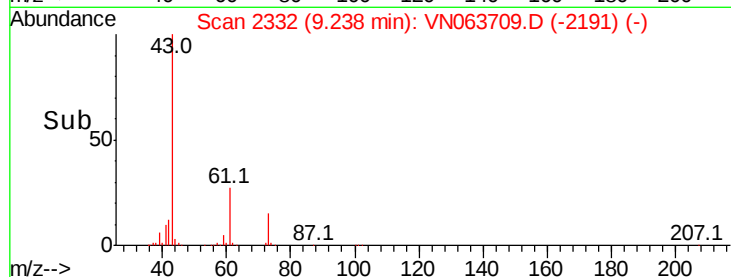
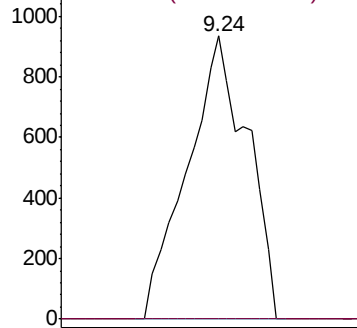
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 32.518 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

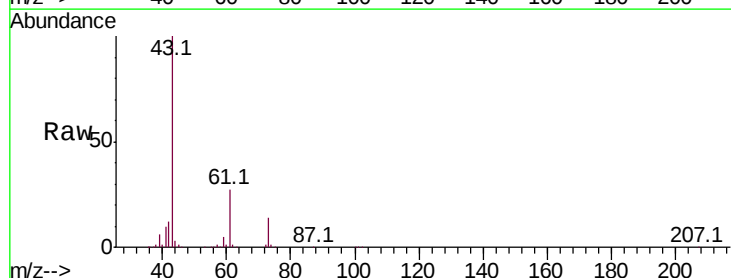
Tgt Ion: 41 Resp: 121366

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

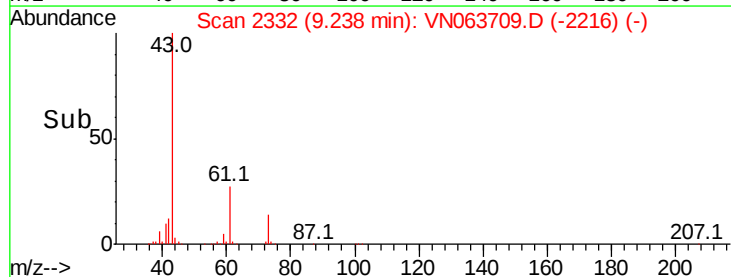
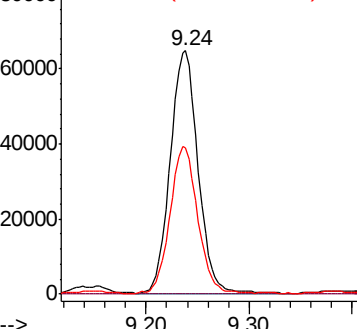
39 59.9 52.9 79.3

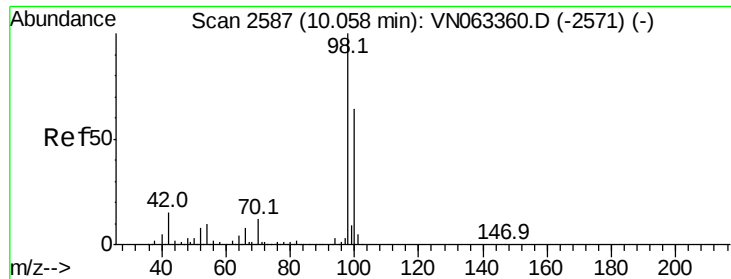


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 51.156 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

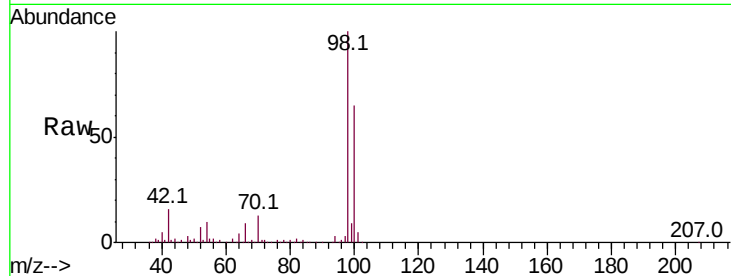
PB131914ZHE#04

Tot Ion: 98 Resp: 541059

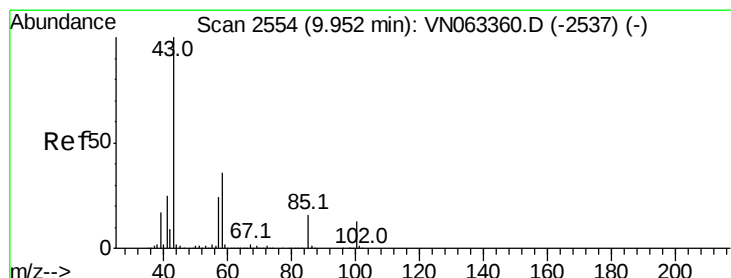
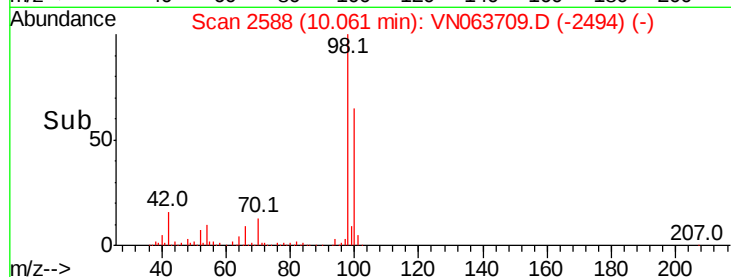
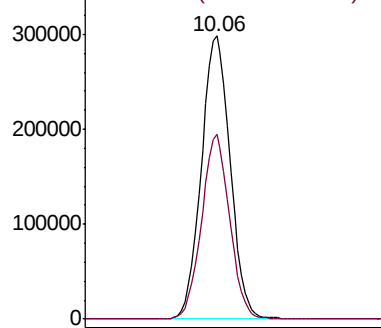
Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



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



#51

4-Methyl-2-Pentanone

Concen: 2.007 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063709.D

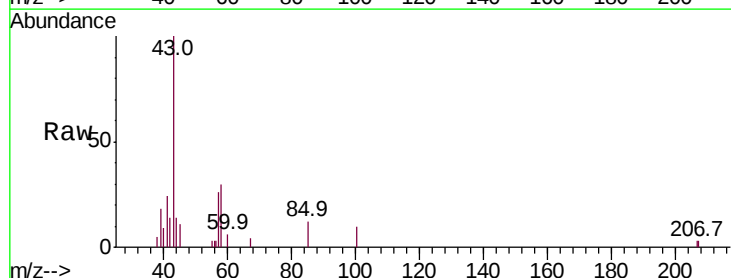
Acq: 28 Sep 2020 16:45

Tgt Ion: 43 Resp: 8534

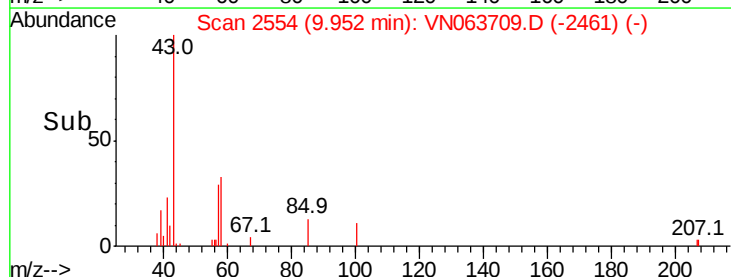
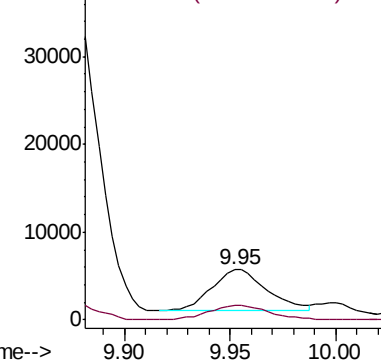
Ion Ratio Lower Upper

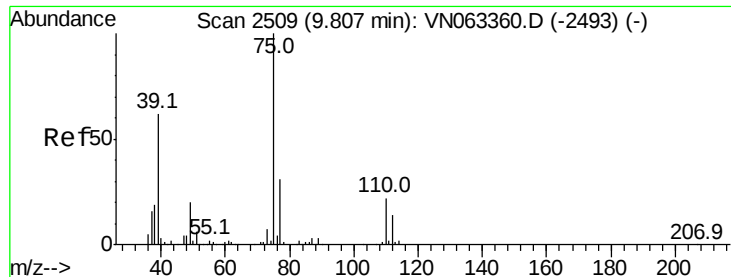
43 100

58 38.8 29.0 43.6



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





#54

cis-1,3-Dichloropropene

Concen: 4.976 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB131914ZHE#04

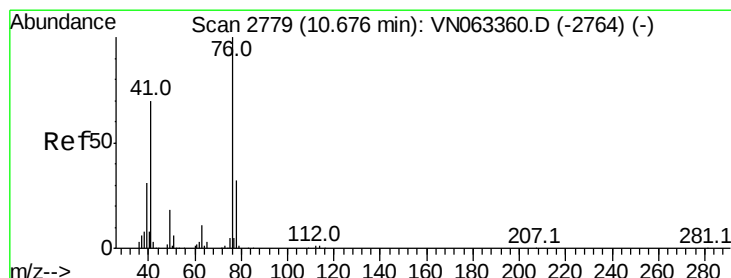
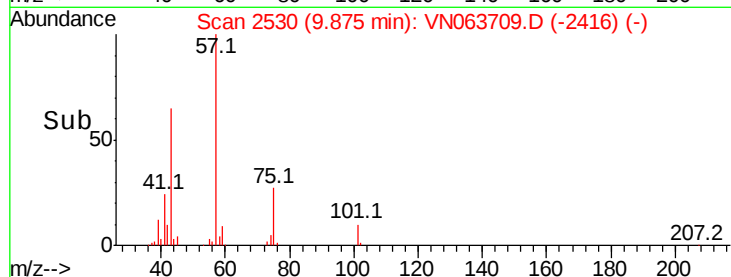
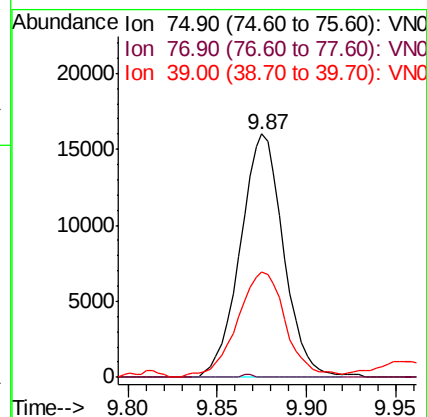
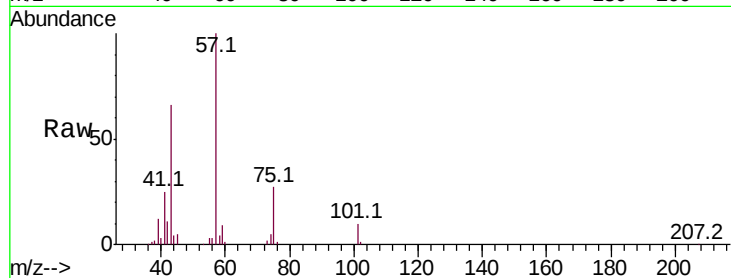
Tot Ion: 75 Resp: 26925

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 42.1 49.8 74.8#



#57

1,3-Dichloropropane

Concen: 0.964 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063709.D

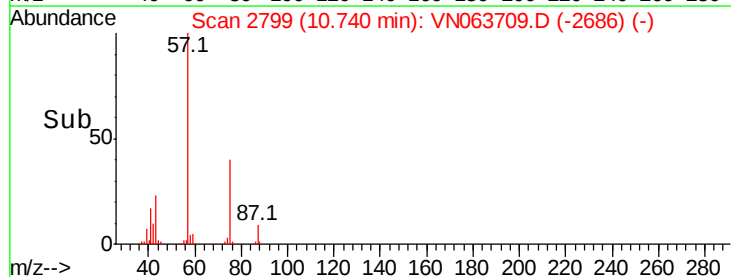
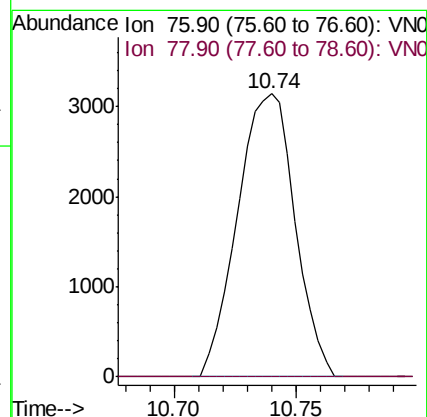
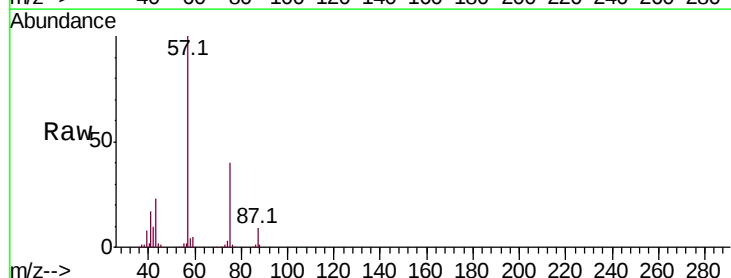
Acq: 28 Sep 2020 16:45

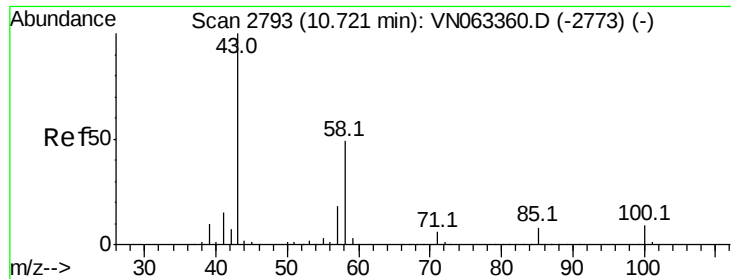
Tgt Ion: 76 Resp: 5131

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 26.285 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

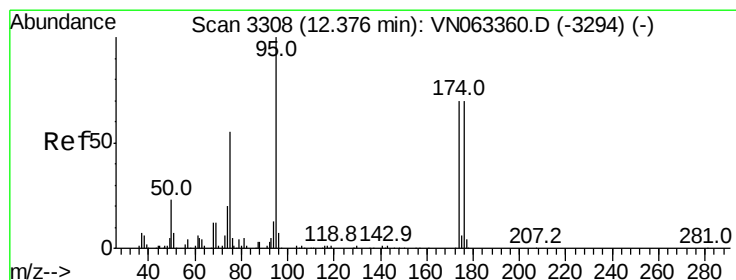
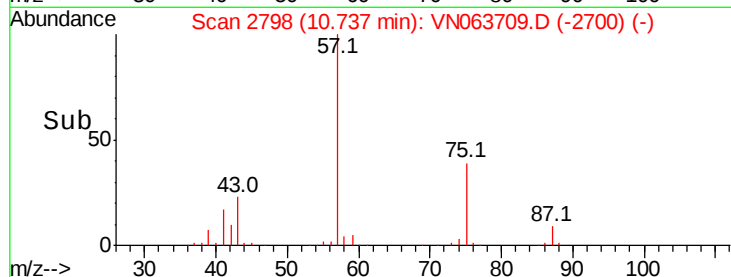
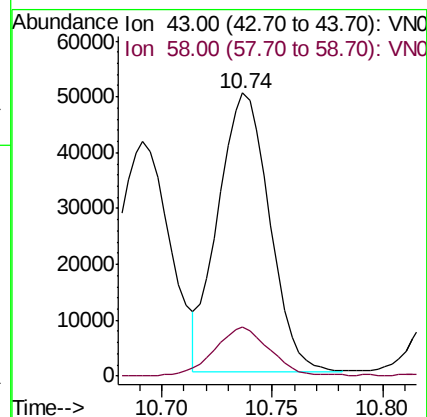
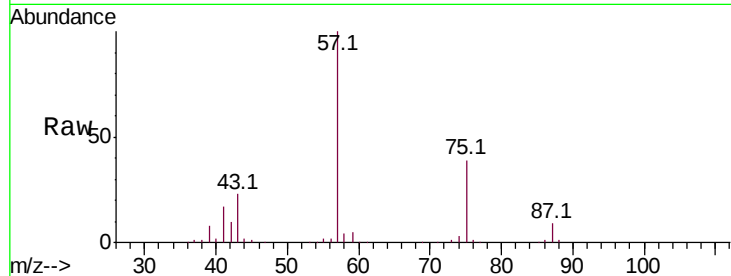
PB131914ZHE#04

Tot Ion: 43 Resp: 80986

Ion Ratio Lower Upper

43 100

58 19.0 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 55.356 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

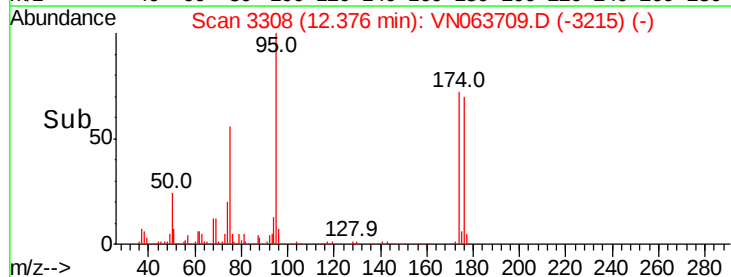
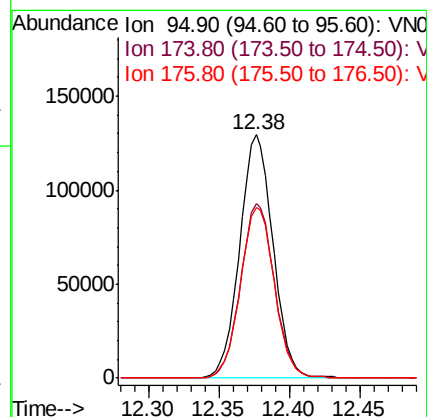
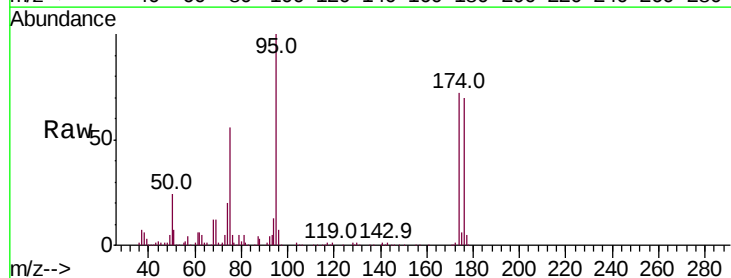
Tgt Ion: 95 Resp: 214628

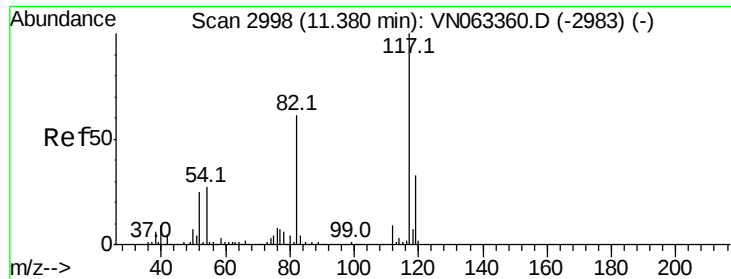
Ion Ratio Lower Upper

95 100

174 73.1 0.0 140.8

176 71.5 0.0 137.6

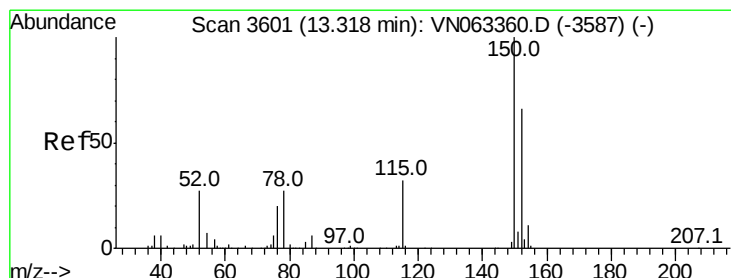
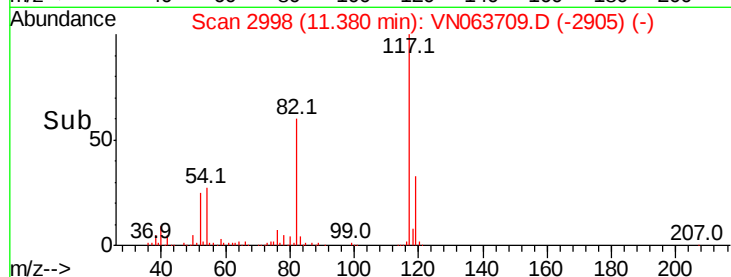
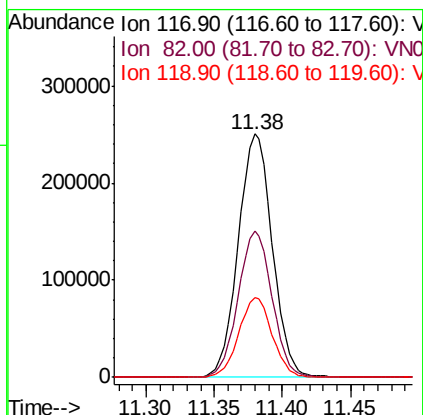
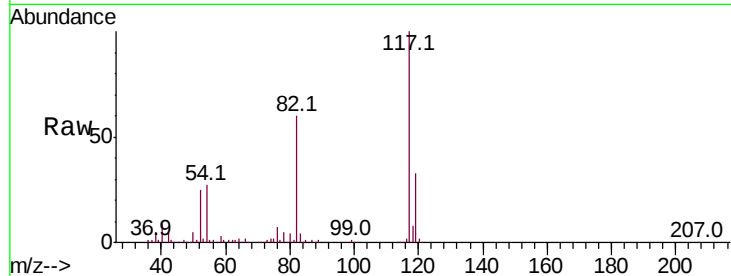




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063709.D
Acq: 28 Sep 2020 16:45

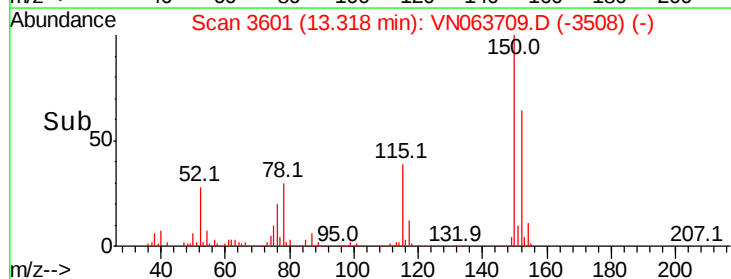
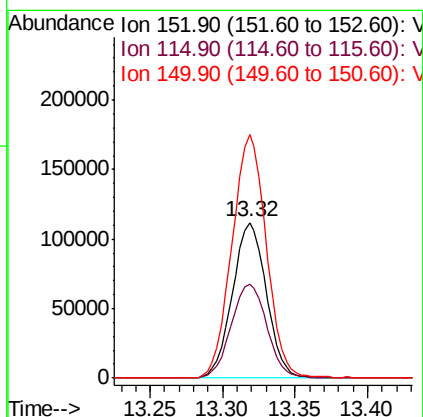
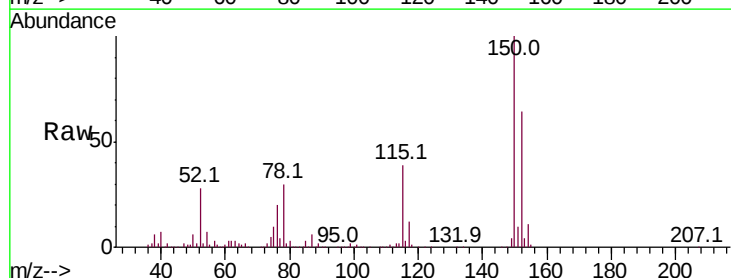
Instrument :
MSVOA_N
ClientSampleId :
PB131914ZHE#04

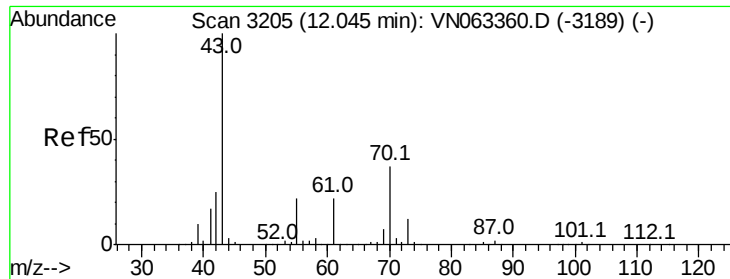
Tot Ion:117 Resp: 434405
Ion Ratio Lower Upper
117 100
82 60.1 49.2 73.8
119 32.7 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063709.D
Acq: 28 Sep 2020 16:45

Tgt Ion:152 Resp: 182034
Ion Ratio Lower Upper
152 100
115 63.6 32.2 96.6
150 158.0 0.0 343.4





#74

N-amvl acetate

Concen: 0.747 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB131914ZHE#04

Tot Ion: 43 Resp: 5158

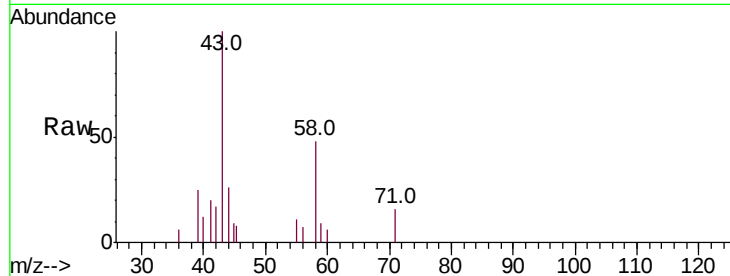
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.8 17.7 26.5#

61 0.0 17.4 26.2#

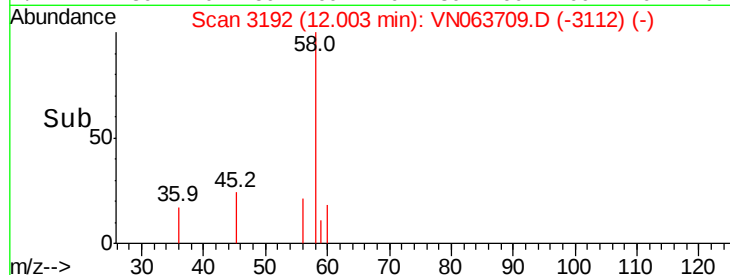


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

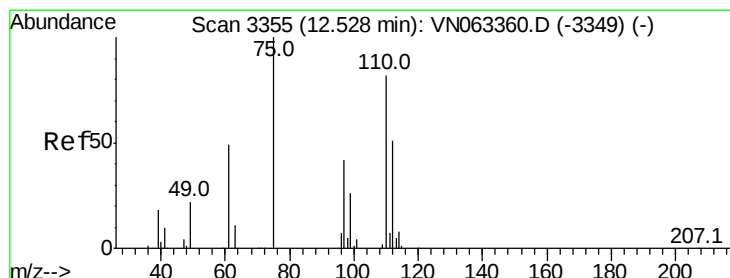
Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time-->

11.95 12.00 12.05 12.10



#76

1,2,3-Trichloropropane

Concen: 26.952 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063709.D

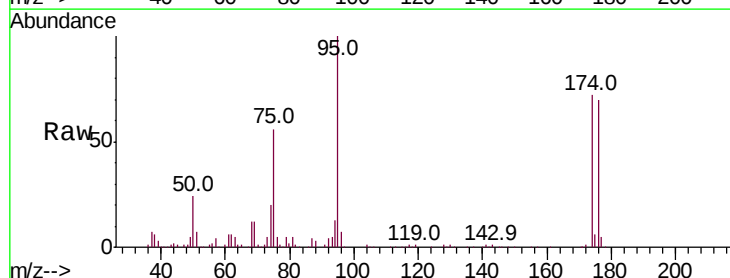
Acq: 28 Sep 2020 16:45

Tgt Ion: 75 Resp: 121433

Ion Ratio Lower Upper

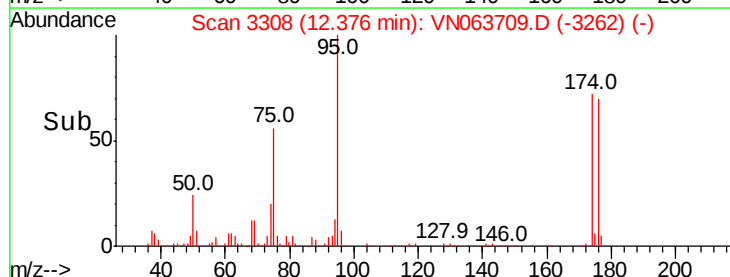
75 100

77 1.1 0.0 0.0#



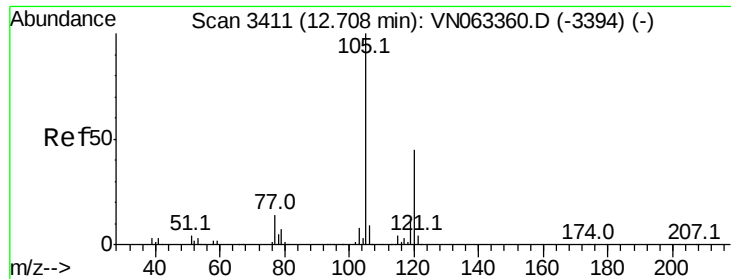
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->

12.30 12.40



#80

1,3,5-Trimethylbenzene

Concen: 0.260 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

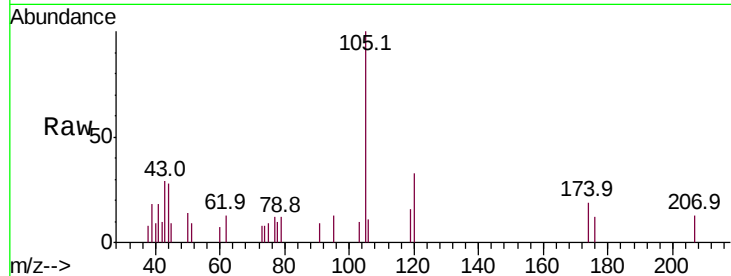
PB131914ZHE#04

Tot Ion:105 Resp: 3162

Ion Ratio Lower Upper

105 100

120 44.7 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2500

2000

1500

1000

500

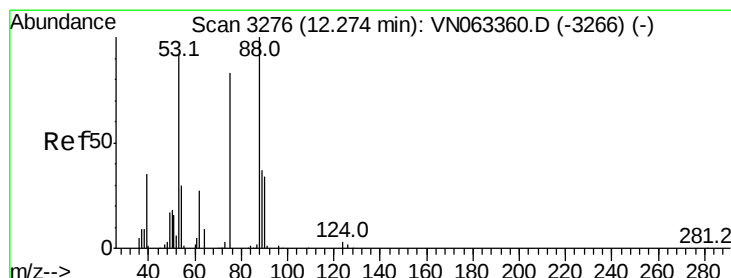
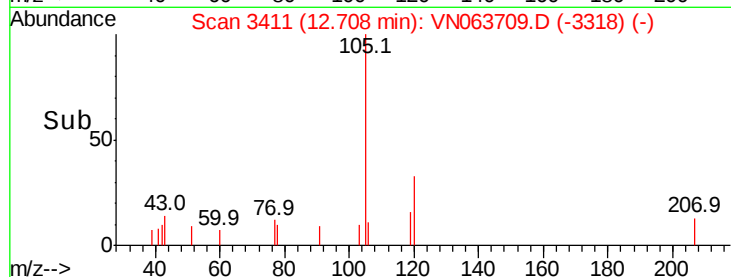
0

12.70

12.71

12.75

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 73.891 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063709.D

Acq: 28 Sep 2020 16:45

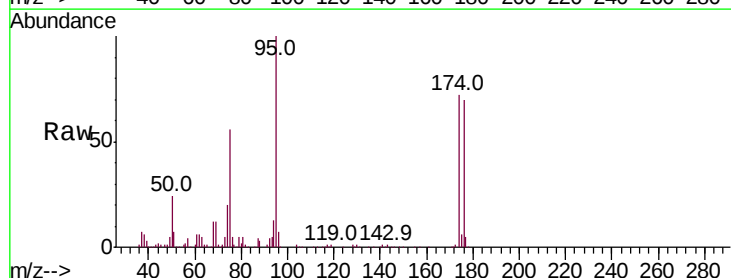
Tgt Ion: 75 Resp: 121433

Ion Ratio Lower Upper

75 100

53 0.1 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

100000

80000

60000

40000

20000

0

12.30

12.38

12.40

Time-->

