

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092920\
 Data File : VN063728.D
 Acq On : 29 Sep 2020 15:28
 Operator : JC/MD
 Sample : PB131952ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131952ZHE#01

Quant Time: Sep 30 00:51:42 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	7.62	168	221639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	397767	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	420198	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	173918	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	181098	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
35) Dibromofluoromethane	7.55	113	132019	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
50) Toluene-d8	10.06	98	519002	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.38	95	204458	53.87	ug/l	0.00
Spiked Amount			Recovery	=	107.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	448	0.256	ug/l	96
11) Tert butyl alcohol	4.72	59	894	1.710	ug/l #	84
16) Acetone	3.78	43	17001	14.021	ug/l	93
18) Methyl Acetate	4.29	43	1766	0.574	ug/l #	54
20) Methylene Chloride	4.51	84	18544	6.036	ug/l	97
25) 2-Butanone	6.79	43	14104	7.563	ug/l	95
29) Tetrahydrofuran	7.17	42	1069	0.839	ug/l #	47
31) Cyclohexane	7.63	56	6598	1.266	ug/l #	47
36) 1,1-Dichloropropene	7.62	75	19603	4.626	ug/l #	51
37) Ethyl Acetate	6.79	43	14104	3.391	ug/l #	70
38) Carbon Tetrachloride	7.63	117	24770	5.726	ug/l #	18
43) Isopropyl Acetate	8.13	43	69788	9.384	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1279	0.388	ug/l #	43
48) Methyl methacrylate	9.15	41	5430	1.486	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	7549	1.813	ug/l	89
52) Toluene	10.13	92	1524	0.210	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	26217	4.949	ug/l #	66
56) Ethyl methacrylate	10.52	69	1623	0.360	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4913	0.943	ug/l #	42
59) 2-Hexanone	10.74	43	81830	27.130	ug/l #	56
74) N-amyl acetate	12.01	43	4161	0.631	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	118055	27.425	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3640	0.313	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	118055	75.188	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

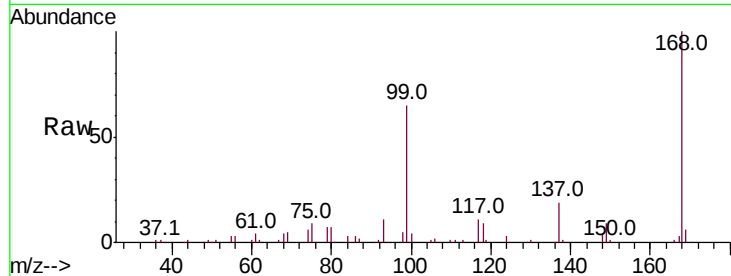
Instrument :
MSVOA_N
ClientSampleId :
PB131952ZHE#01

Tot Ion:168 Resp: 221639

Ion Ratio Lower Upper

168 100

99 65.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

100000

80000

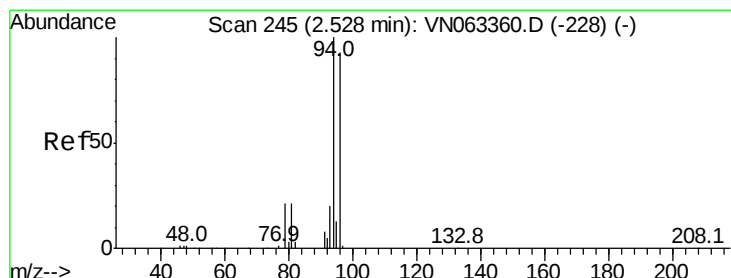
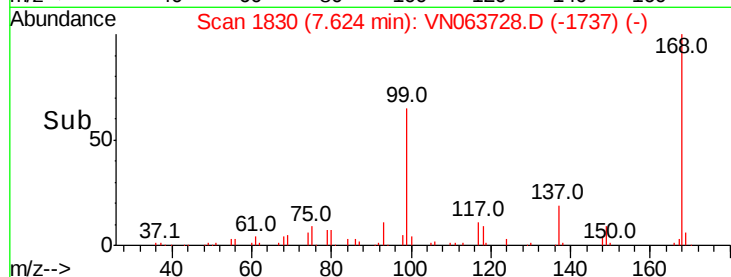
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.256 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.02 min

Lab File: VN063728.D

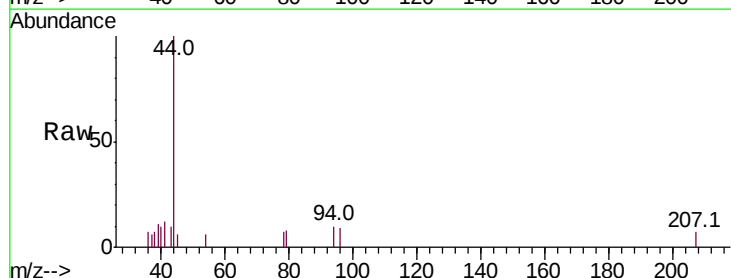
Acq: 29 Sep 2020 15:28

Tgt Ion: 94 Resp: 448

Ion Ratio Lower Upper

94 100

96 97.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

300

250

200

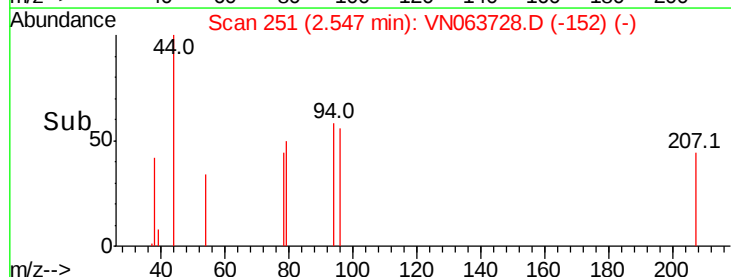
150

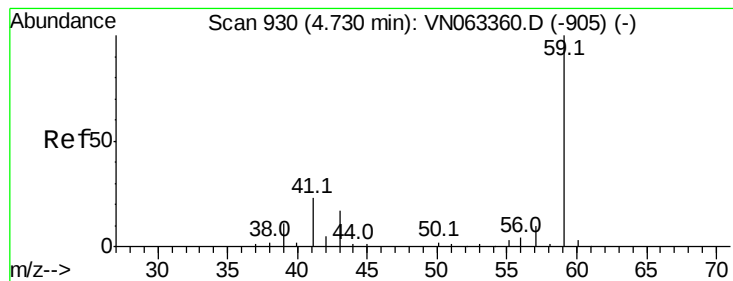
100

50

0

Time--> 2.52 2.54 2.56 2.58





#11

Tert butyl alcohol

Concen: 1.710 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

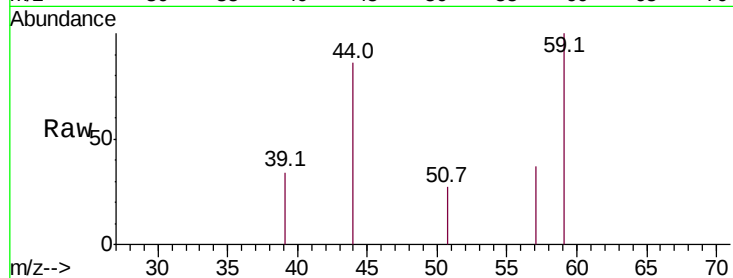
PB131952ZHE#01

Tot Ion: 59 Resp: 894

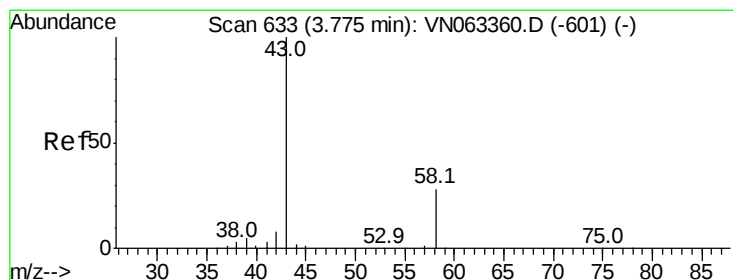
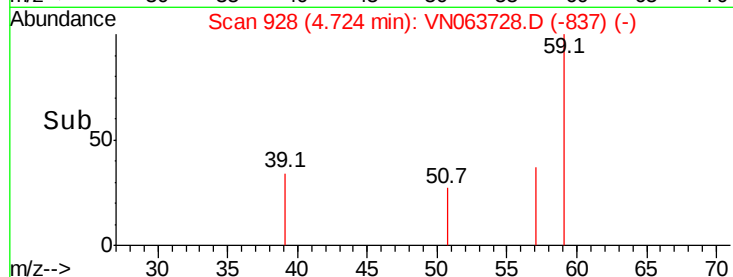
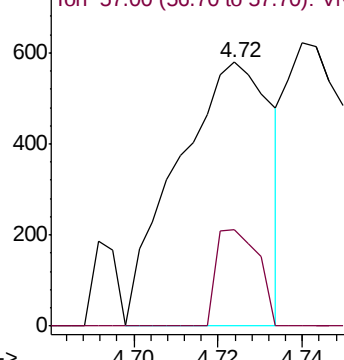
Ion Ratio Lower Upper

59 100

57 16.3 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063728.D (-905) (-)



#16

Acetone

Concen: 14.021 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063728.D

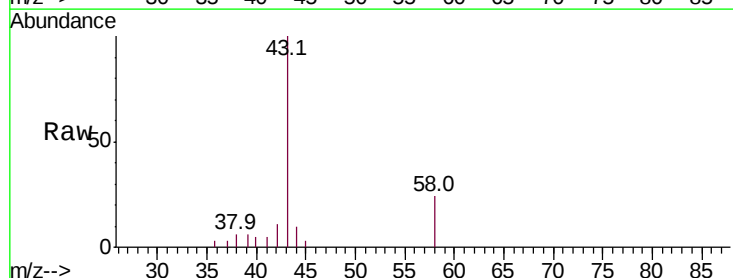
Acq: 29 Sep 2020 15:28

Tgt Ion: 43 Resp: 17001

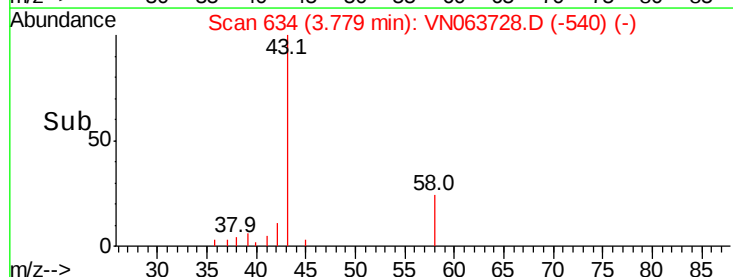
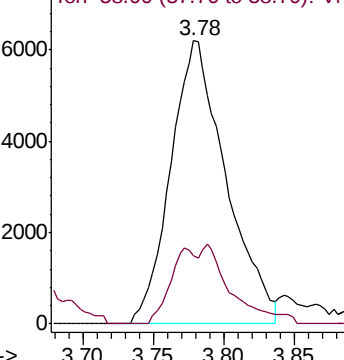
Ion Ratio Lower Upper

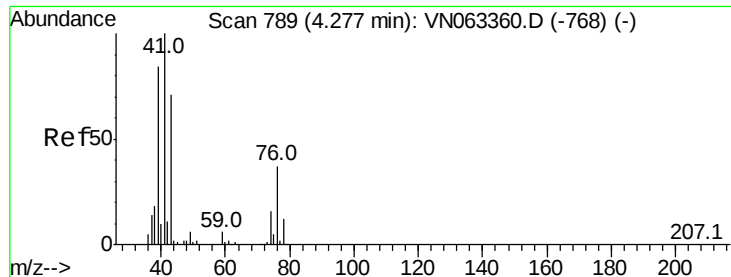
43 100

58 24.2 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063728.D (-540) (-)

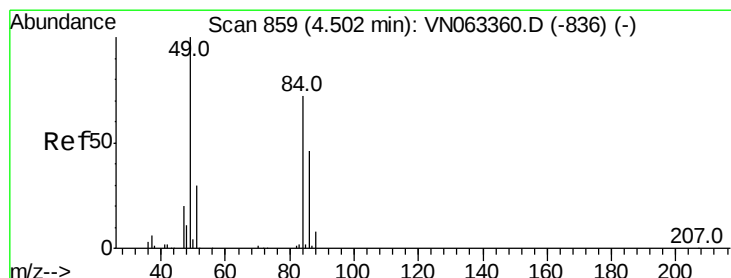
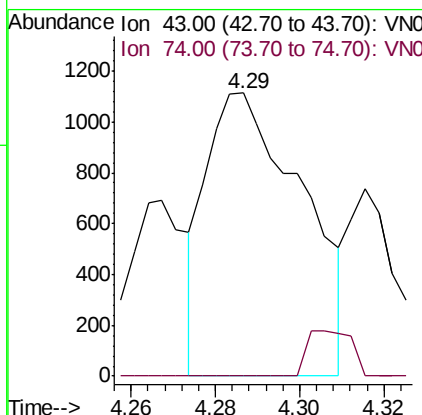
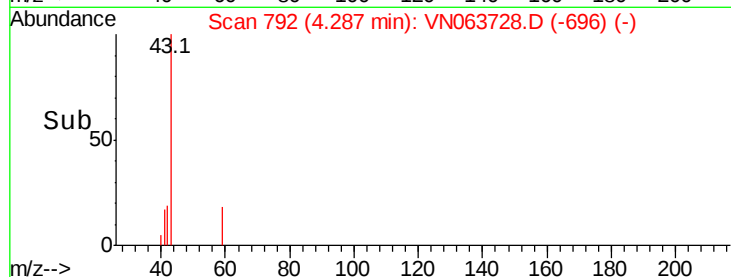
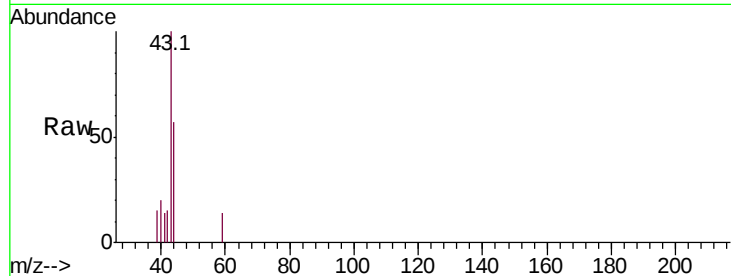




#18
Methyl Acetate
Concen: 0.574 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

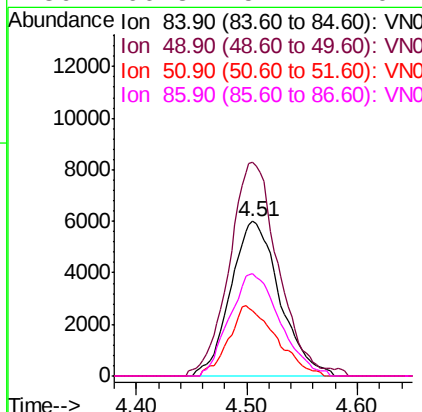
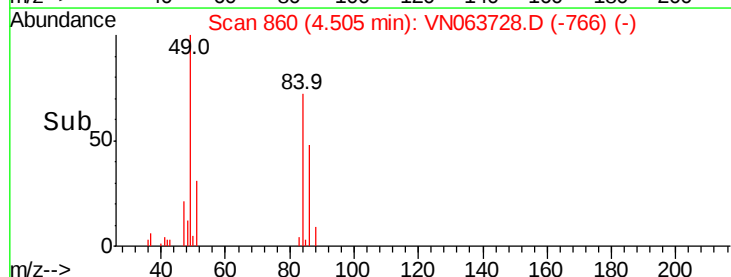
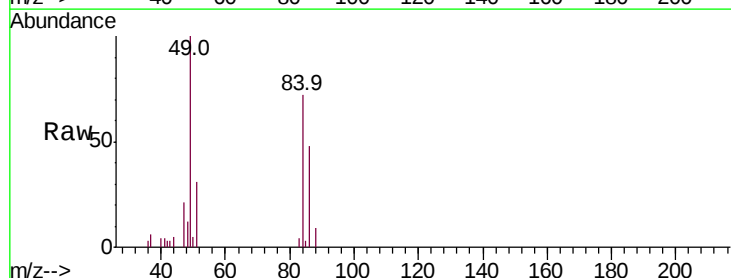
Instrument :
MSVOA_N
ClientSampleId :
PB131952ZHE#01

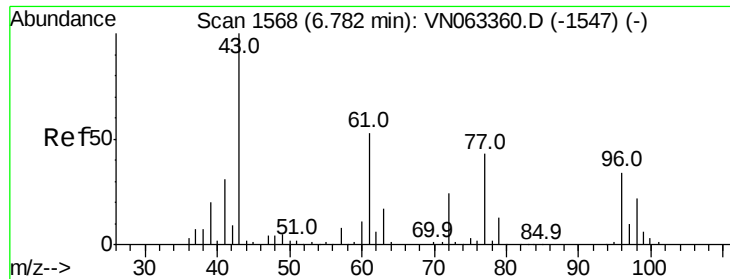
Tot Ion: 43 Resp: 1766
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 6.036 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

Tgt Ion: 84 Resp: 18544
Ion Ratio Lower Upper
84 100
49 134.5 110.7 166.1
51 42.3 32.9 49.3
86 66.3 51.1 76.7

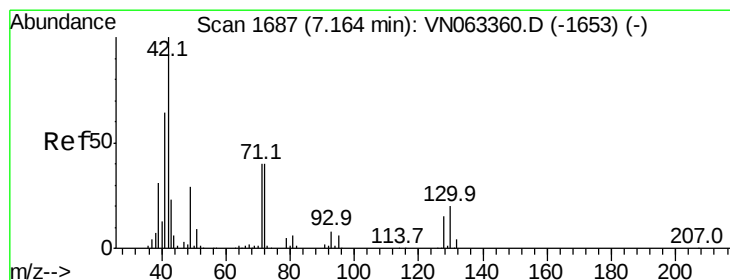
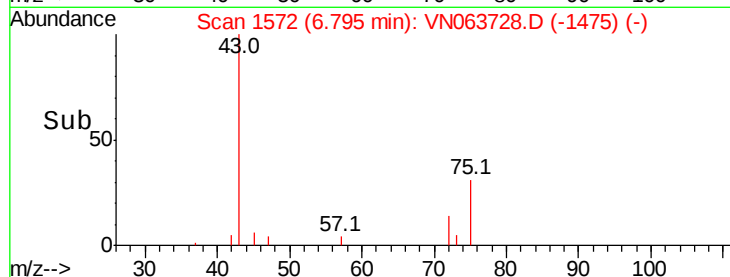
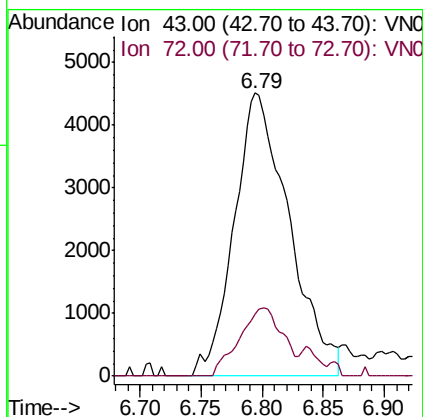
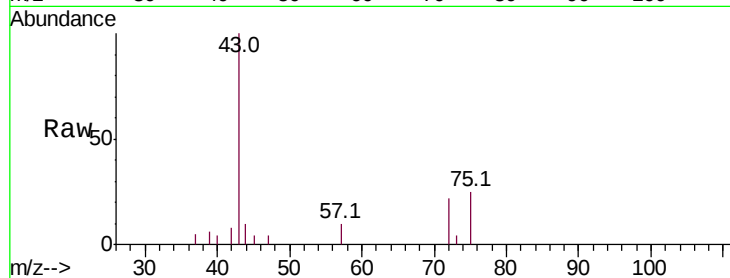




#25
2-Butanone
Concen: 7.563 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

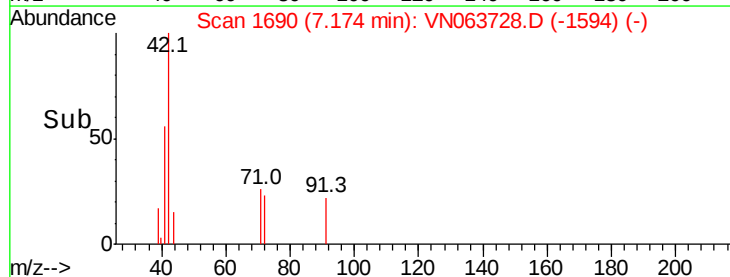
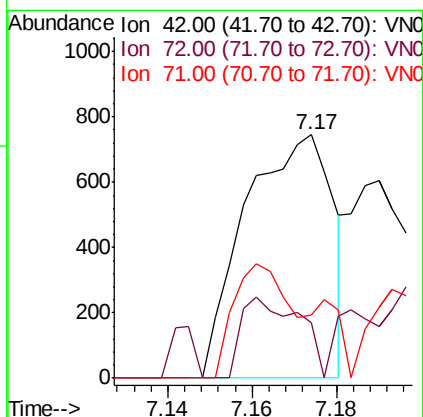
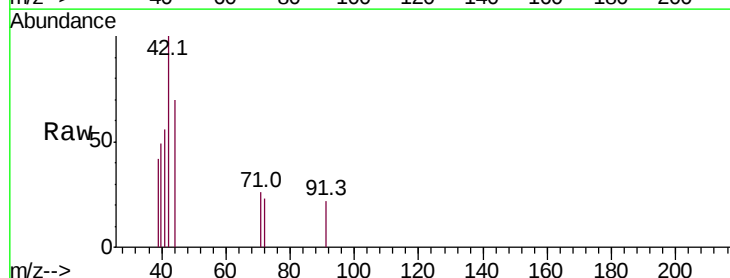
Instrument :
MSVOA_N
ClientSampleId :
PB131952ZHE#01

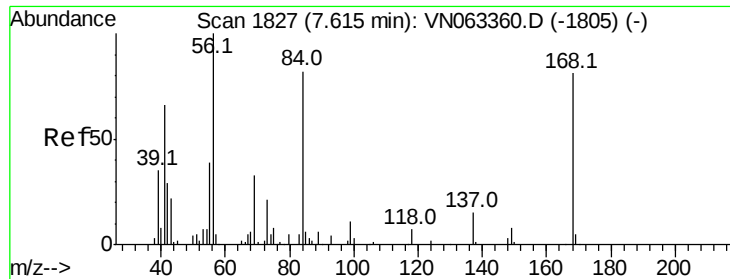
Tot Ion: 43 Resp: 14104
Ion Ratio Lower Upper
43 100
72 21.8 19.2 28.8



#29
Tetrahydrofuran
Concen: 0.839 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

Tgt Ion: 42 Resp: 1069
Ion Ratio Lower Upper
42 100
72 13.4 32.1 48.1#
71 0.0 31.2 46.8#

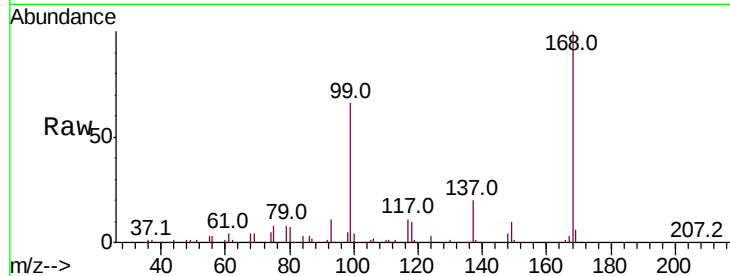




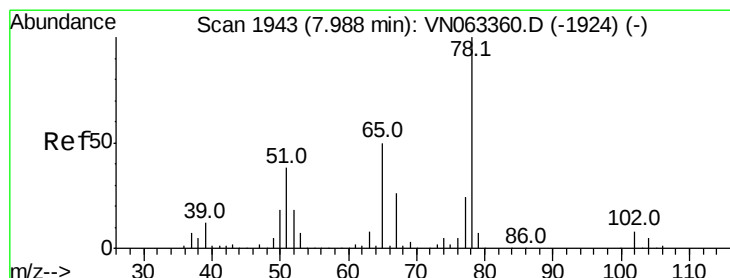
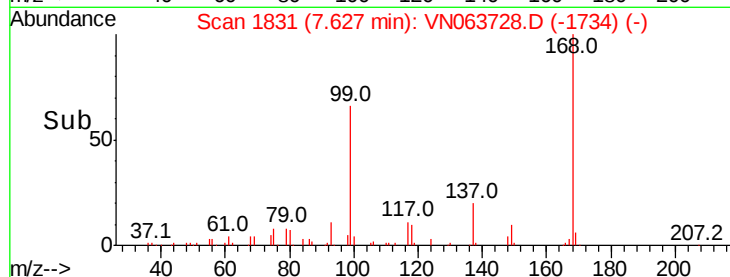
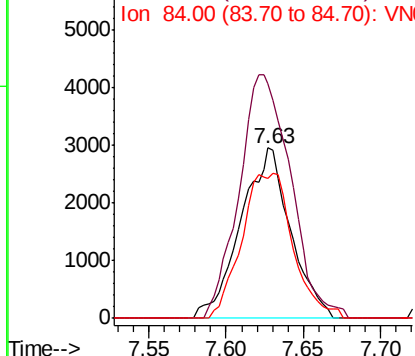
#31
Cyclohexane
Concen: 1.266 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

Instrument :
MSVOA_N
ClientSampleId :
PB131952ZHE#01

Tot Ion: 56 Resp: 6598
Ion Ratio Lower Upper
56 100
69 137.6 26.1 39.1#
84 81.9 65.4 98.2

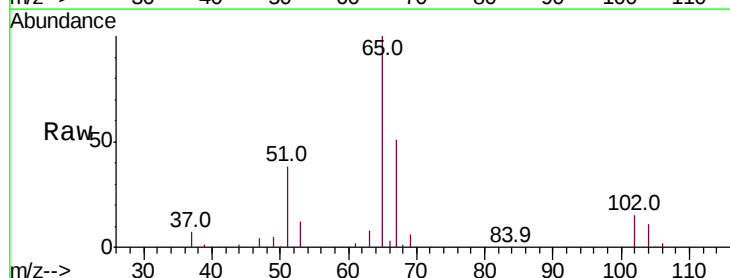


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

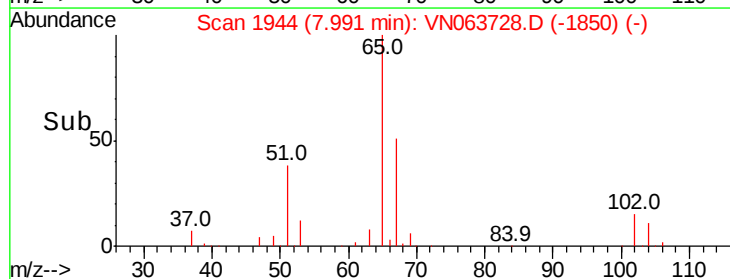
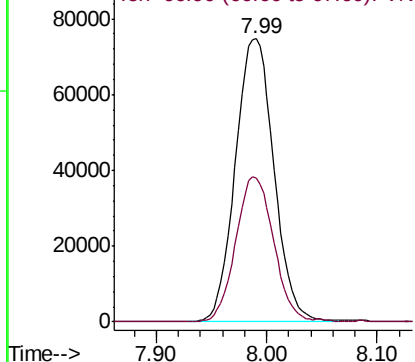


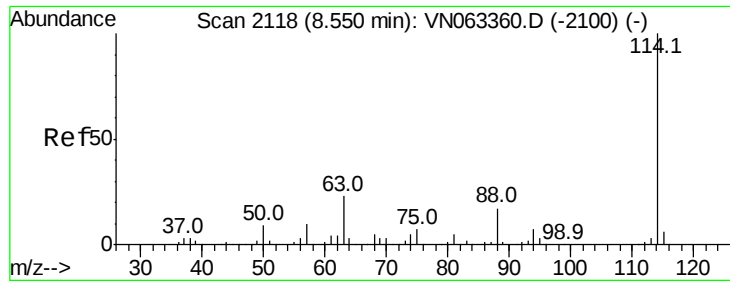
#33
1,2-Dichloroethane-d4
Concen: 48.000 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

Tgt Ion: 65 Resp: 181098
Ion Ratio Lower Upper
65 100
67 50.2 0.0 104.2



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

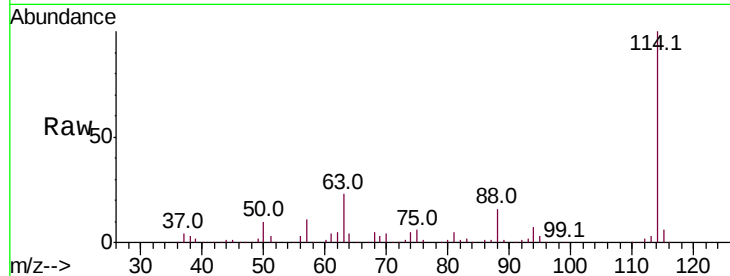




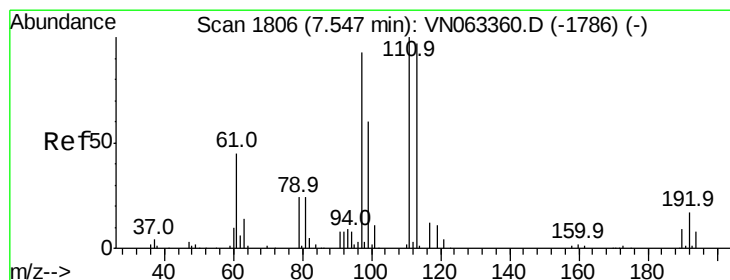
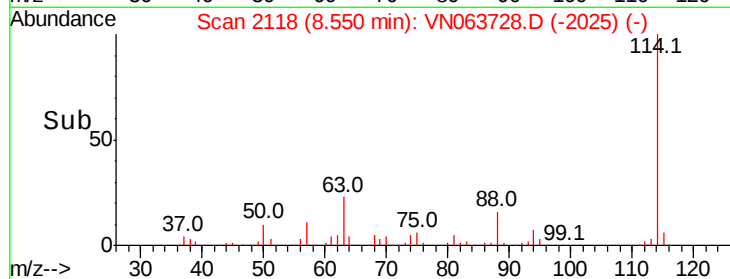
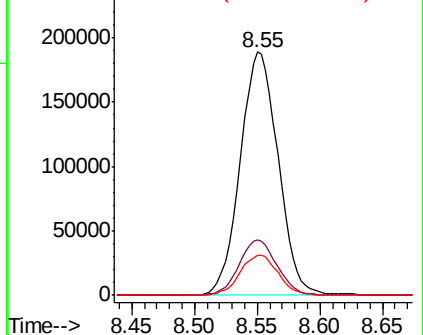
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063728.D
 Acq: 29 Sep 2020 15:28

Instrument :
 MSVOA_N
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 PB131952ZHE#01

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	46.4
88	16.4	0.0	33.2

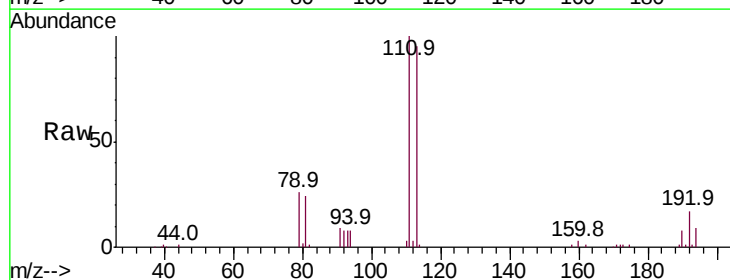


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

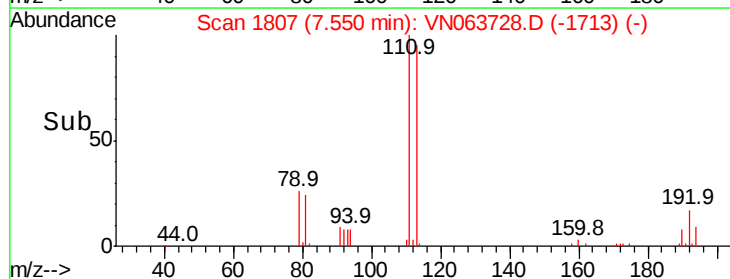
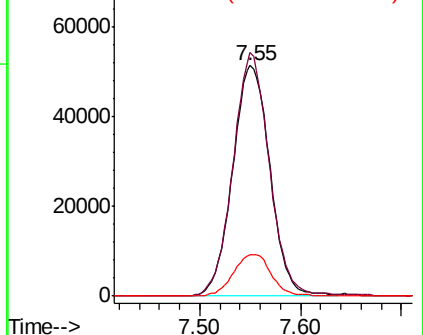


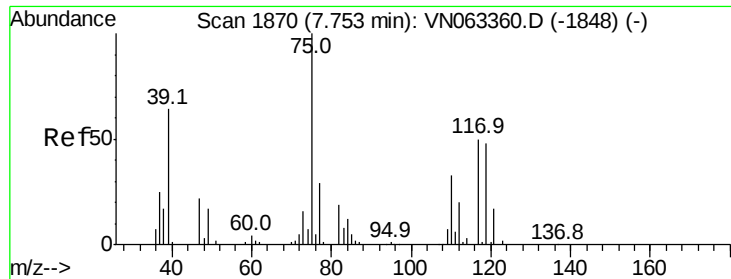
#35
 Dibromofluoromethane
 Concen: 47.943 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063728.D
 Acq: 29 Sep 2020 15:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.9	124.3
192	18.0	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: 4.626 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB131952ZHE#01

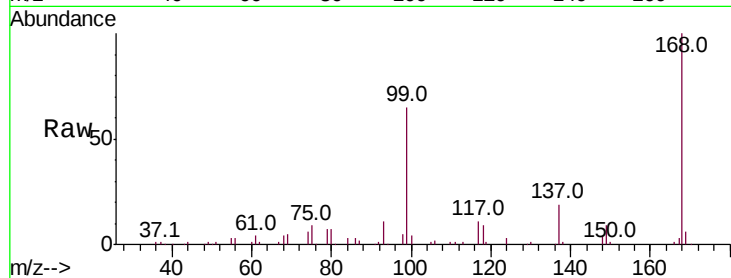
Tot Ion: 75 Resp: 19603

Ion Ratio Lower Upper

75 100

110 8.9 16.5 49.5#

77 0.0 24.6 36.8#

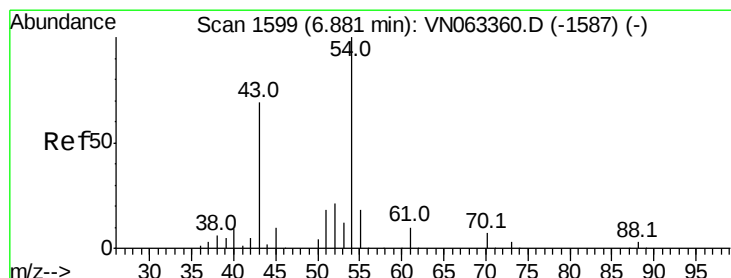
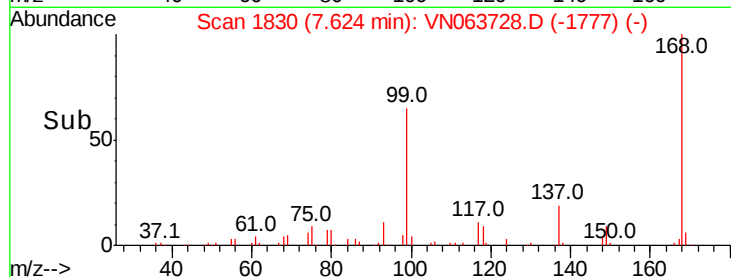
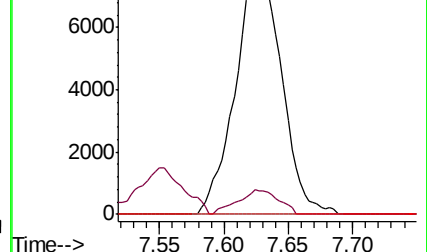


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

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

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

Time-->



#37

Ethyl Acetate

Concen: 3.391 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. -0.09 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

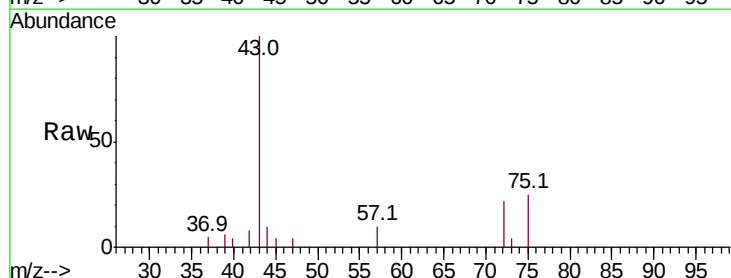
Tgt Ion: 43 Resp: 14104

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.2 10.8#

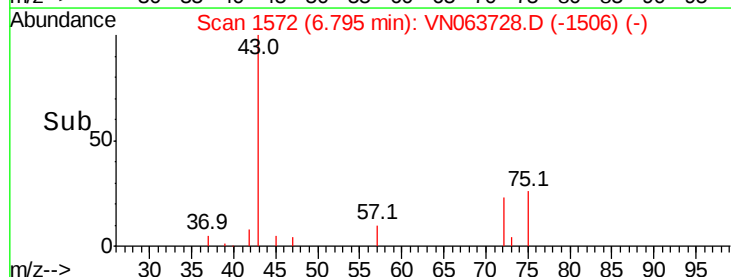
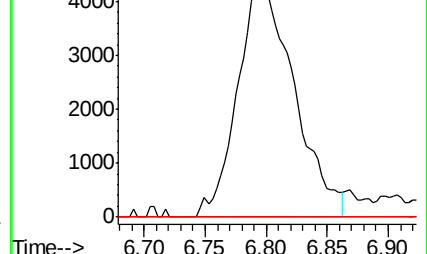


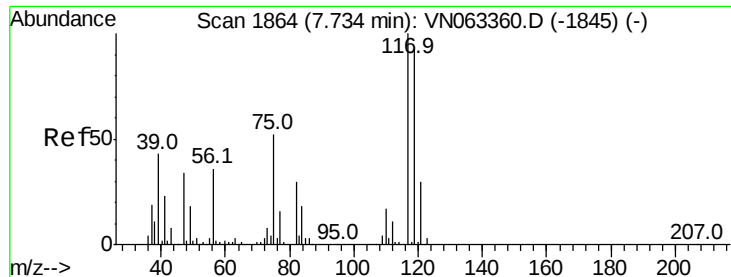
Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1587) (-)

Ion 60.90 (60.60 to 61.60): VN063360.D (-1587) (-)

Ion 70.00 (69.70 to 70.70): VN063360.D (-1587) (-)

Time-->





#38

Carbon Tetrachloride

Concen: 5.726 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB131952ZHE#01

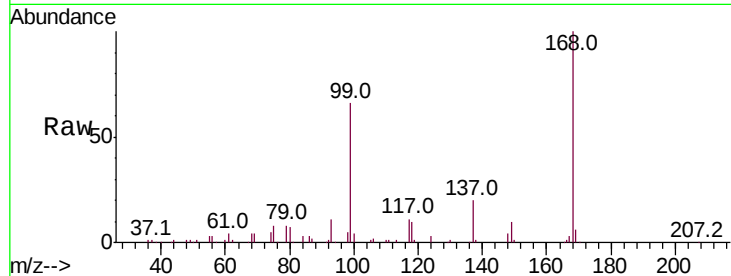
Tot Ion:117 Resp: 24770

Ion Ratio Lower Upper

117 100

119 6.3 74.5 111.7#

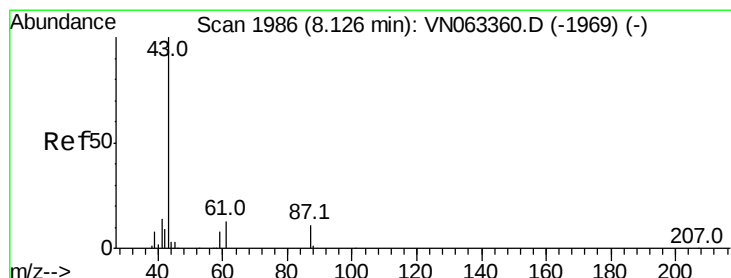
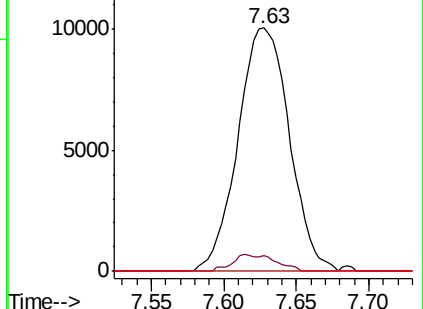
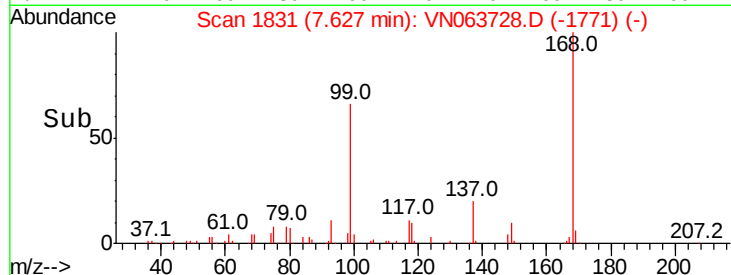
121 0.0 24.1 36.1#



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: 9.384 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

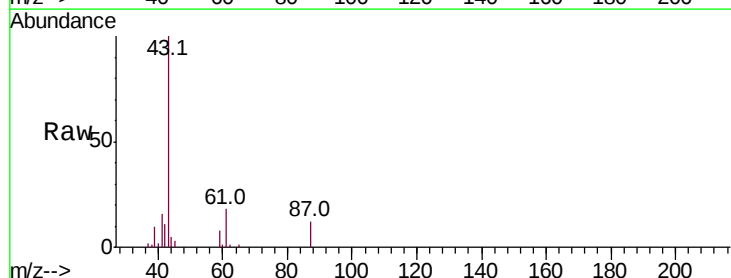
Tgt Ion: 43 Resp: 69788

Ion Ratio Lower Upper

43 100

61 16.9 14.2 21.2

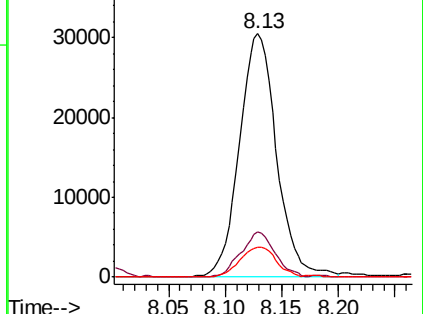
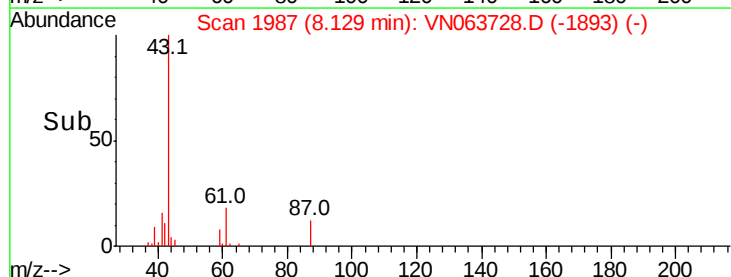
87 12.0 9.0 13.6

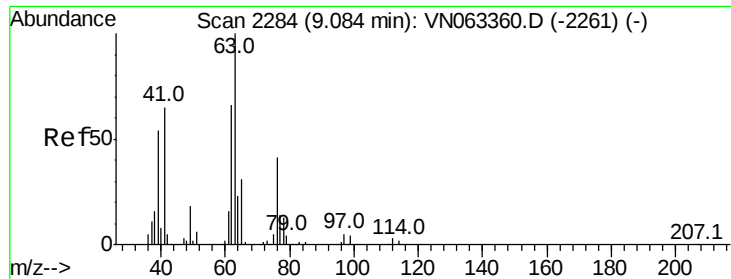


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.388 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

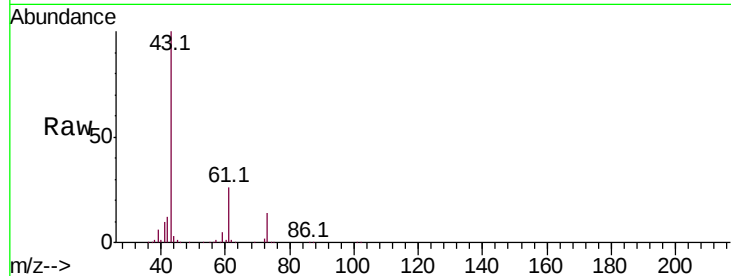
PB131952ZHE#01

Tot Ion: 63 Resp: 1279

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

9.23

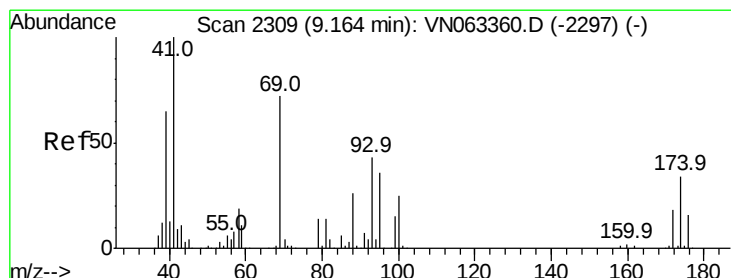
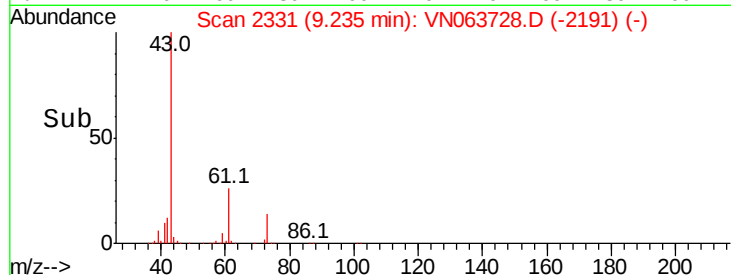
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.486 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

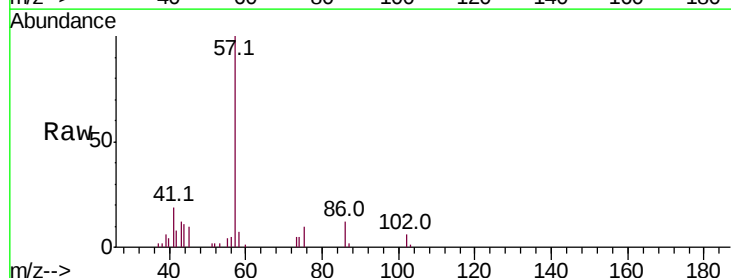
Tgt Ion: 41 Resp: 5430

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): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

80000

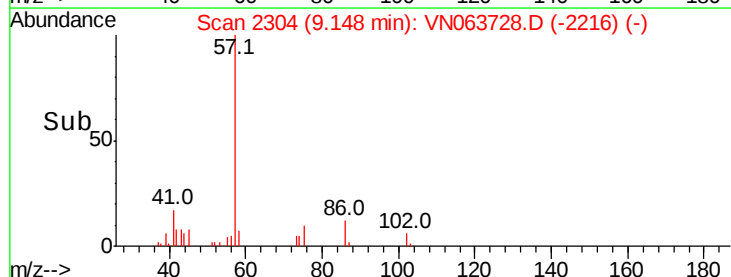
60000

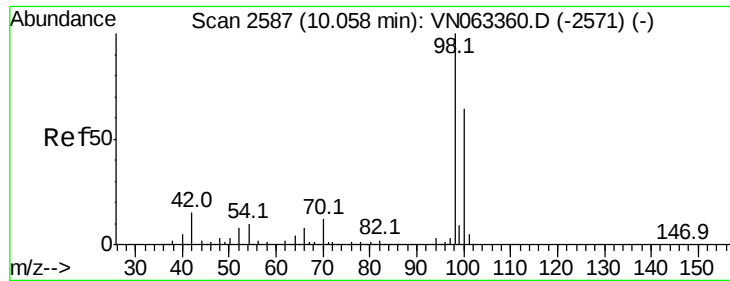
40000

20000

0

Time-->





#50

Toluene-d8

Concen: 50.124 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

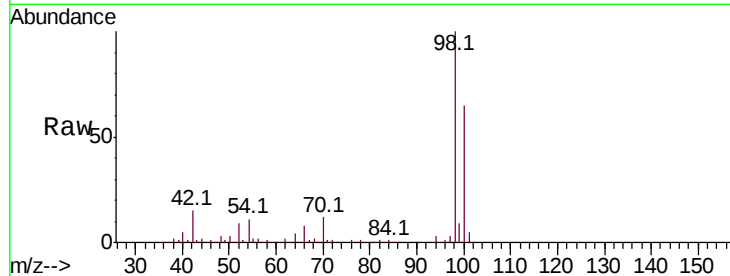
PB131952ZHE#01

Tot Ion: 98 Resp: 519002

Ion Ratio Lower Upper

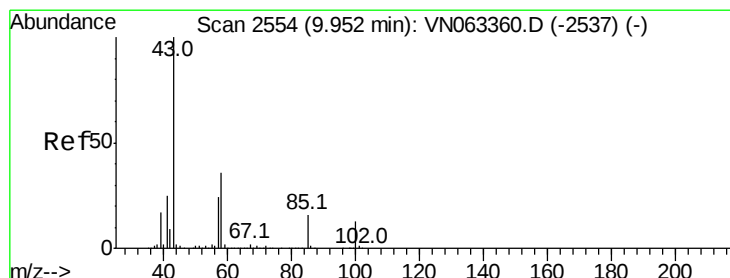
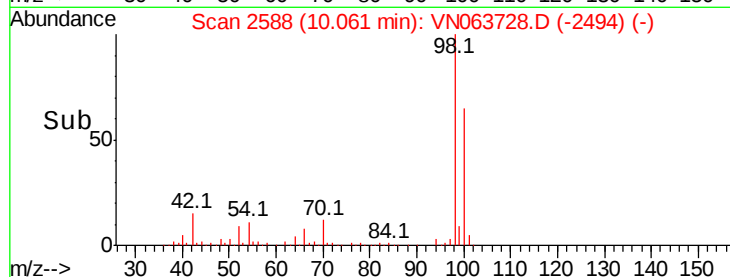
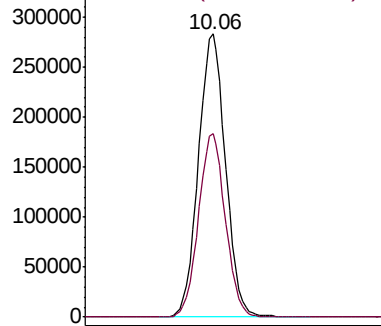
98 100

100 64.1 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: 1.813 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063728.D

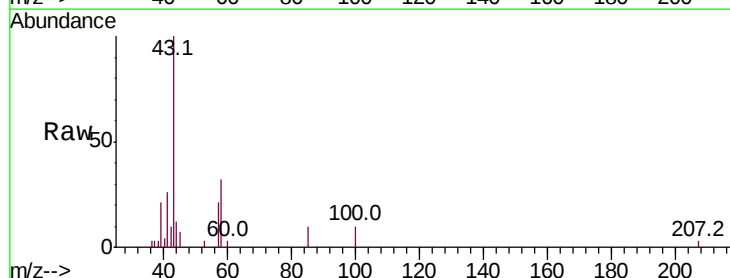
Acq: 29 Sep 2020 15:28

Tgt Ion: 43 Resp: 7549

Ion Ratio Lower Upper

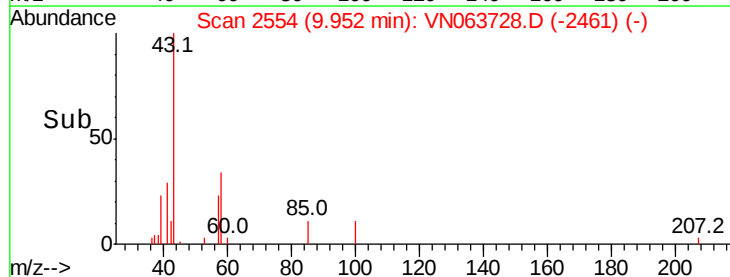
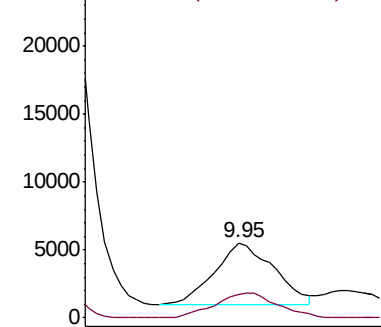
43 100

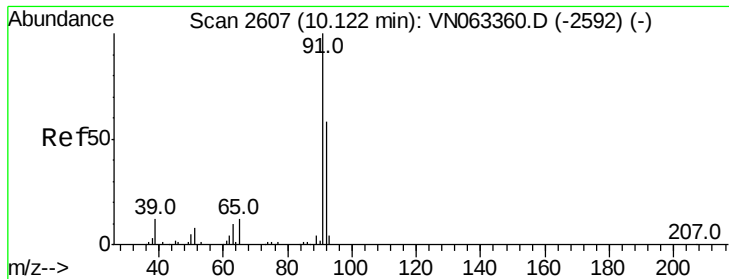
58 43.1 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 0.210 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

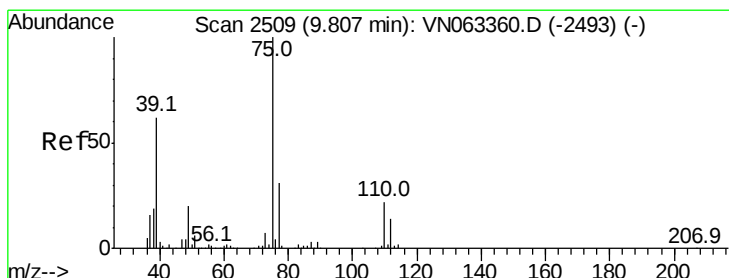
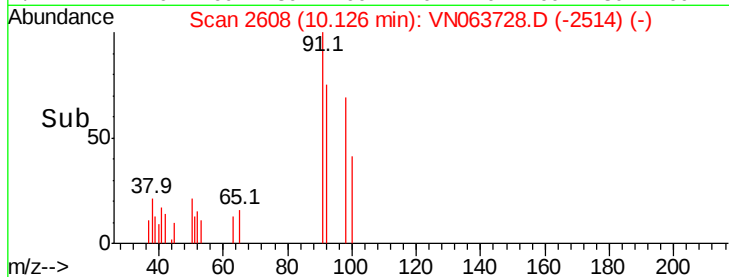
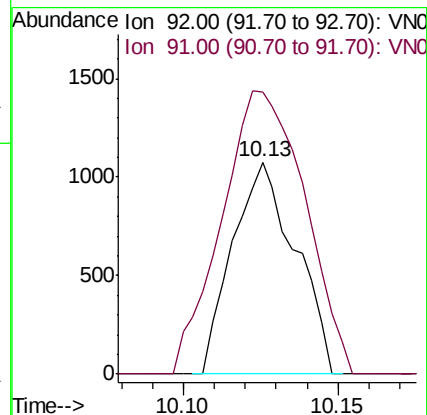
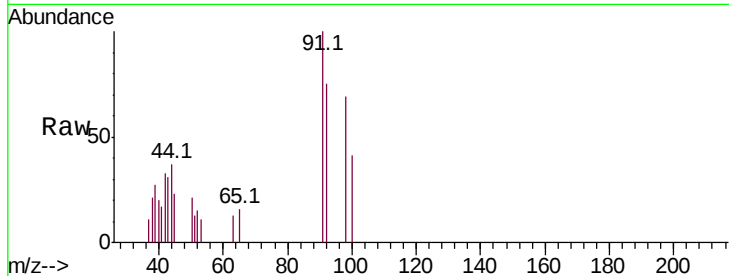
PB131952ZHE#01

Tot Ion: 92 Resp: 1524

Ion Ratio Lower Upper

92 100

91 176.4 139.7 209.5



#54

cis-1,3-Dichloropropene

Concen: 4.949 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

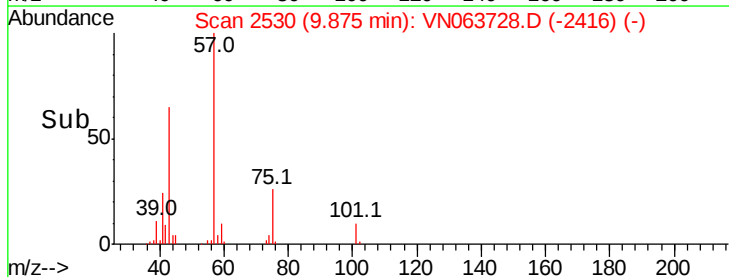
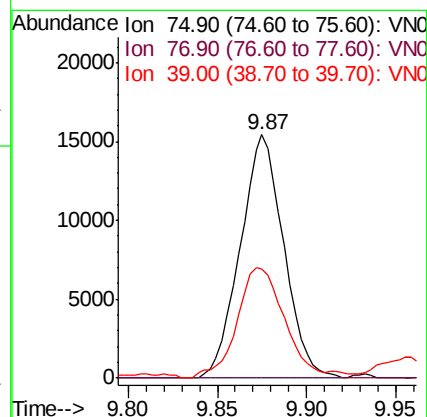
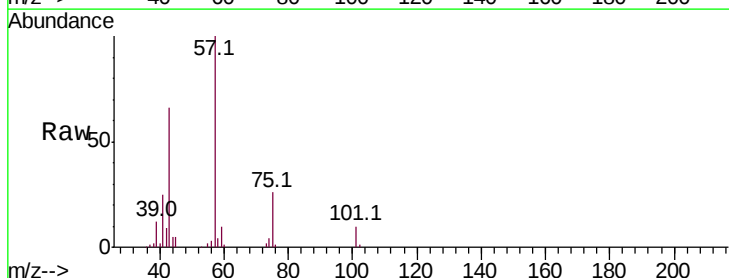
Tgt Ion: 75 Resp: 26217

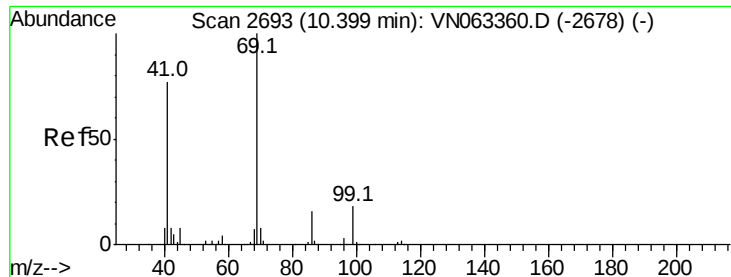
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 44.9 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.360 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB131952ZHE#01

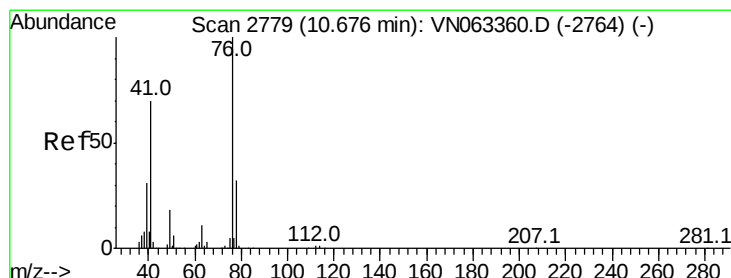
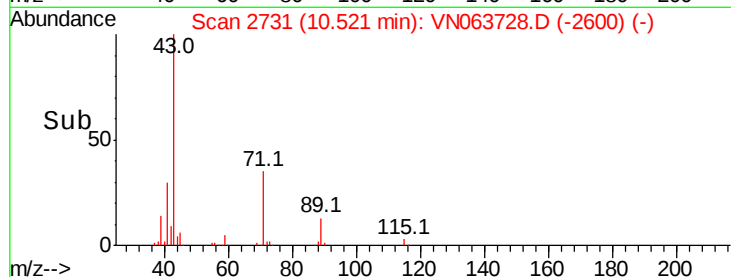
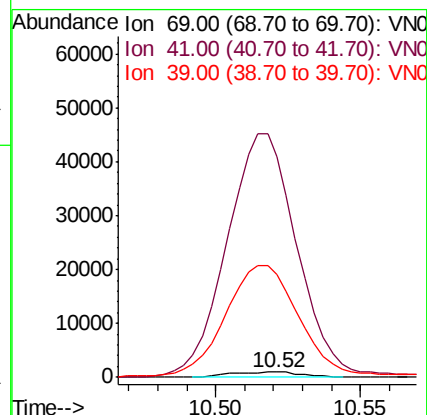
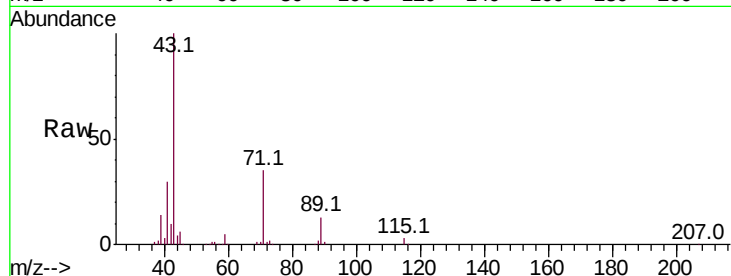
Tot Ion: 69 Resp: 1623

Ion Ratio Lower Upper

69 100

41 4700.7 61.0 91.6#

39 2290.1 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.943 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063728.D

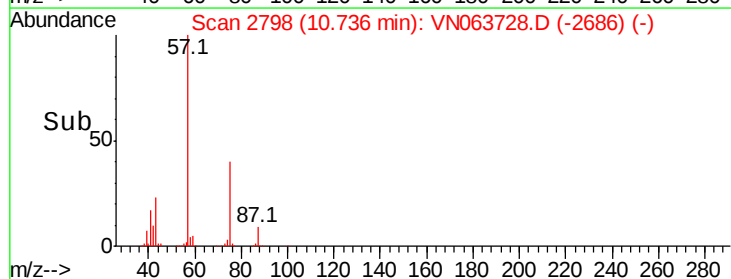
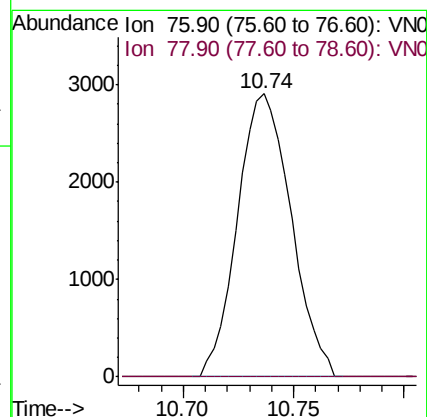
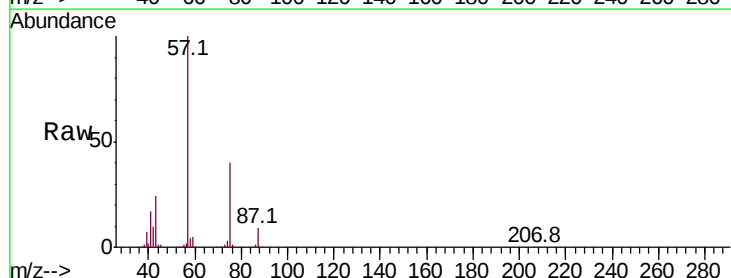
Acq: 29 Sep 2020 15:28

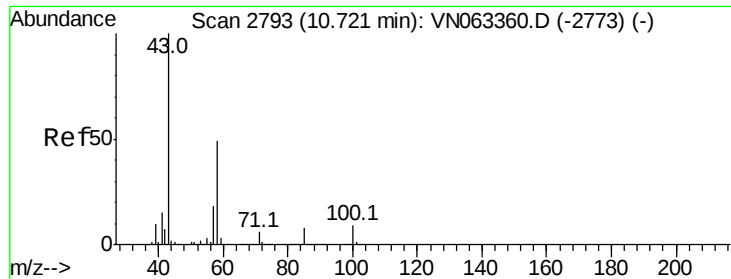
Tgt Ion: 76 Resp: 4913

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

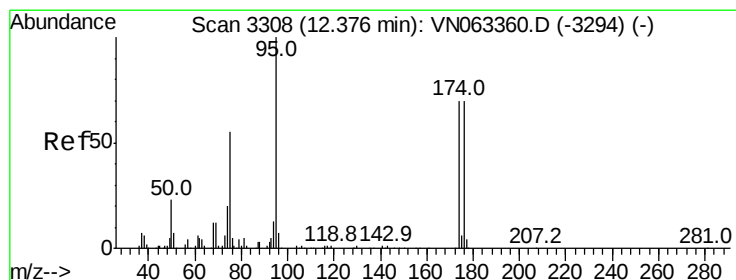
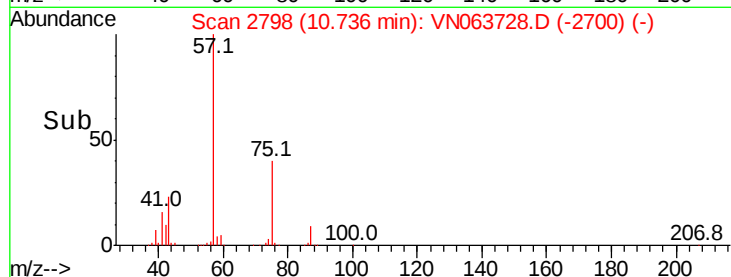
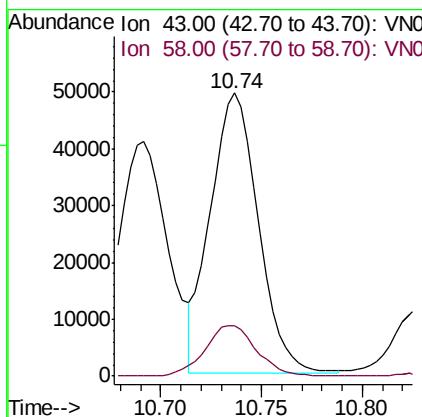
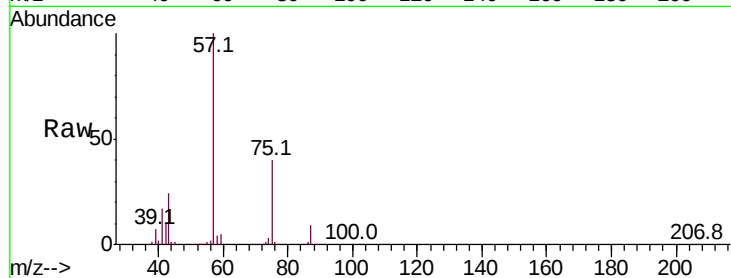




#59
2-Hexanone
Concen: 27.130 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

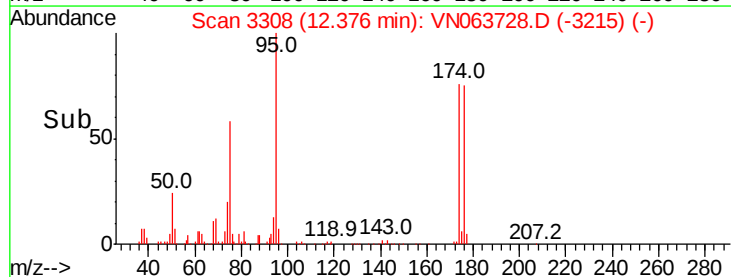
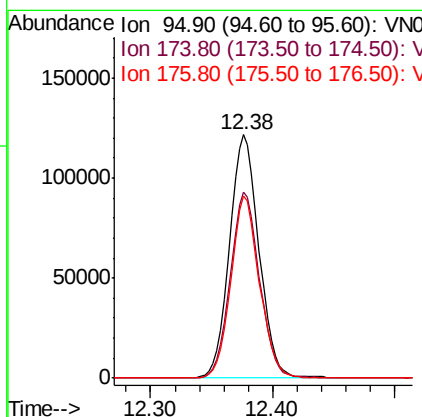
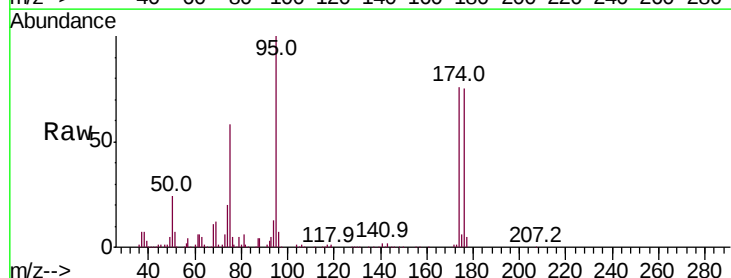
Instrument :
MSVOA_N
ClientSampleId :
PB131952ZHE#01

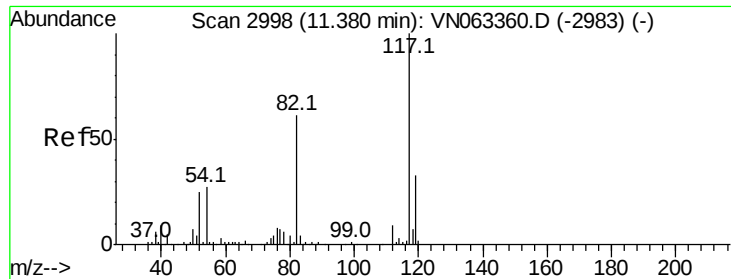
Tot Ion: 43 Resp: 81830
Ion Ratio Lower Upper
43 100
58 19.2 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 53.866 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

Tgt Ion: 95 Resp: 204458
Ion Ratio Lower Upper
95 100
174 76.0 0.0 140.8
176 72.6 0.0 137.6

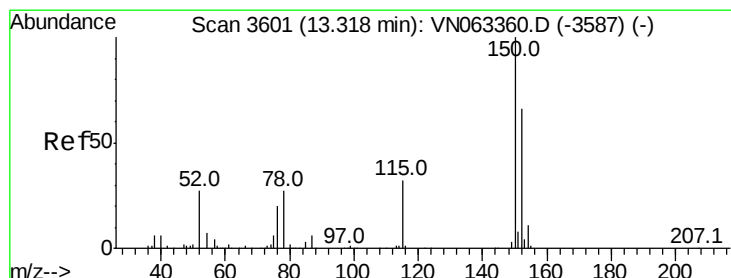
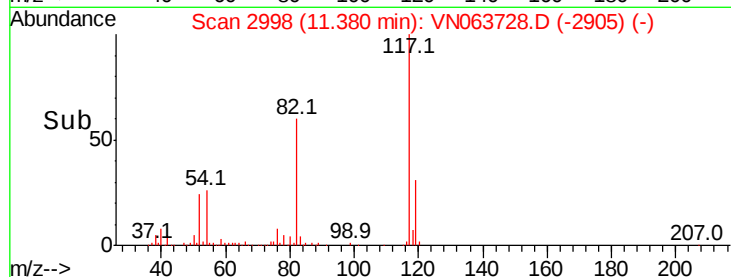
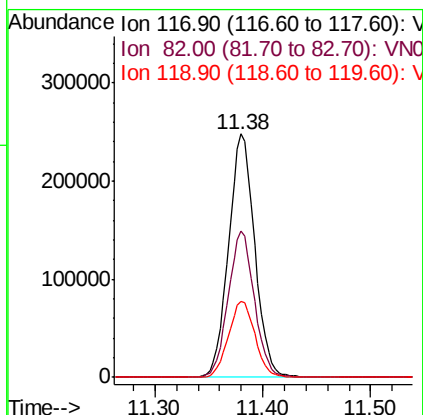
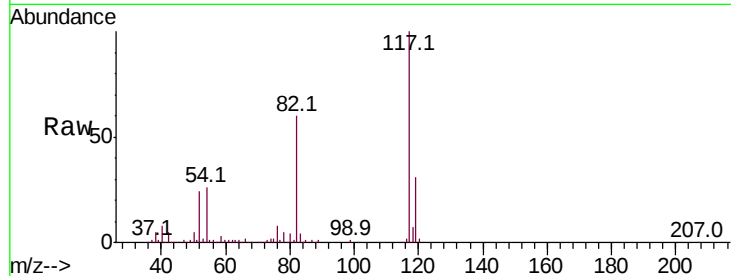




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

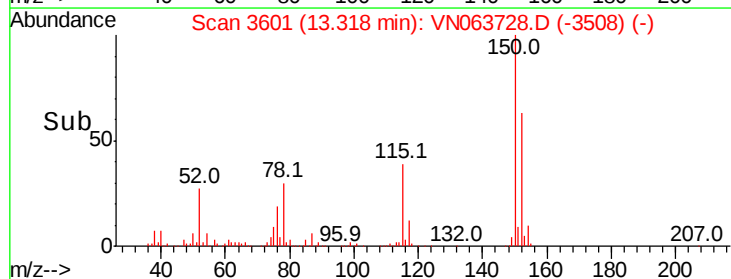
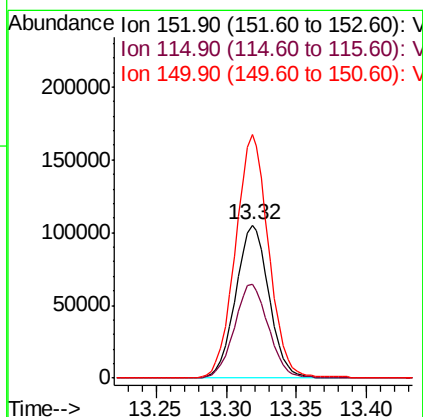
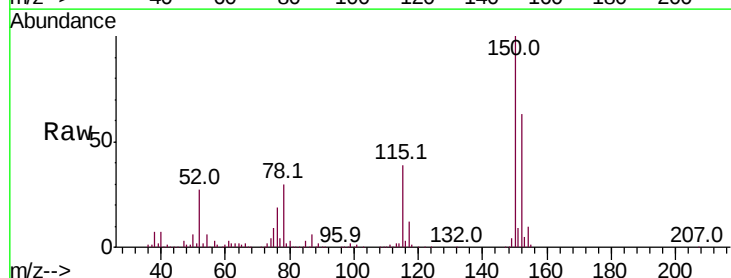
Instrument :
MSVOA_N
ClientSampleId :
PB131952ZHE#01

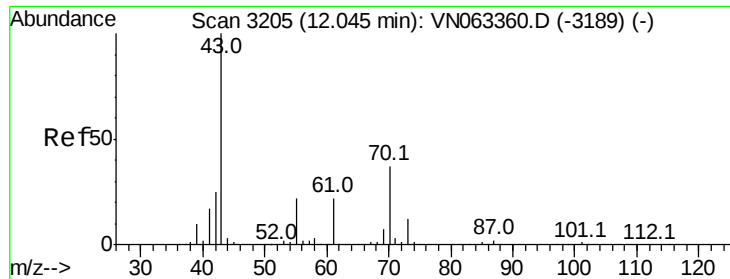
Tot Ion:117 Resp: 420198
Ion Ratio Lower Upper
117 100
82 60.0 49.2 73.8
119 31.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063728.D
Acq: 29 Sep 2020 15:28

Tgt Ion:152 Resp: 173918
Ion Ratio Lower Upper
152 100
115 62.9 32.2 96.6
150 158.9 0.0 343.4





#74

N-amvl acetate

Concen: 0.631 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063728.D

Acq: 29 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

PB131952ZHE#01

Tot Ion: 43 Resp: 4161

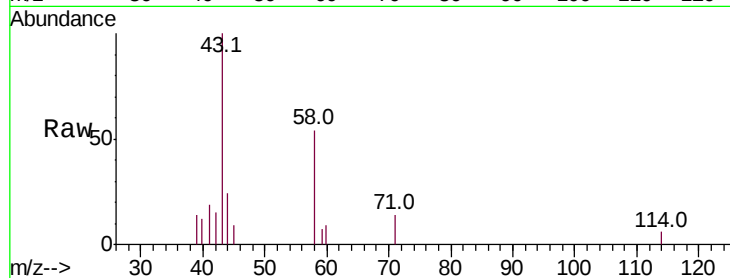
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 3.5 17.7 26.5#

61 0.0 17.4 26.2#

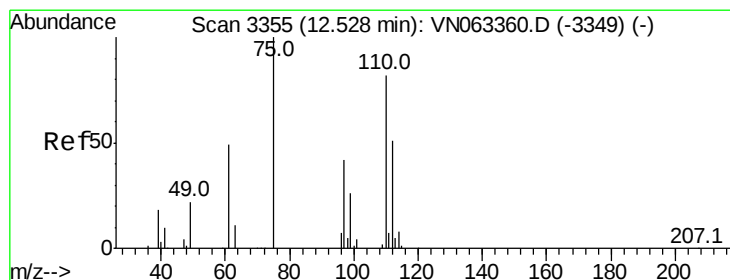
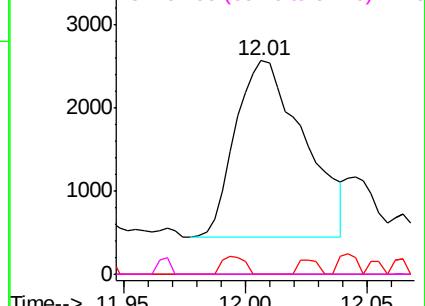
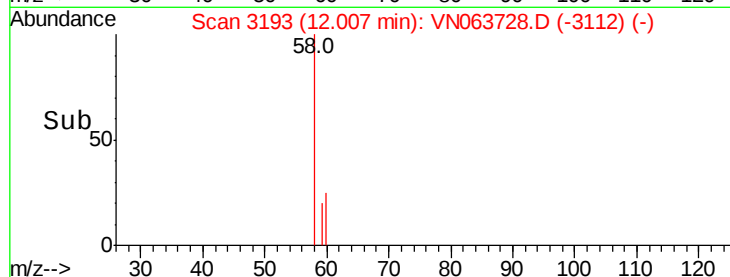


Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-3189) (-)

Ion 70.00 (69.70 to 70.70): VN063360.D (-3189) (-)

Ion 55.00 (54.70 to 55.70): VN063360.D (-3189) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-3189) (-)



#76

1,2,3-Trichloropropane

Concen: 27.425 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063728.D

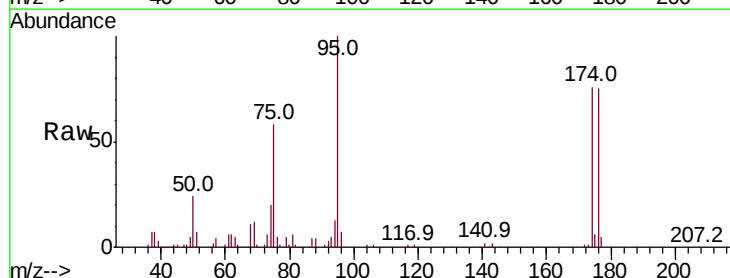
Acq: 29 Sep 2020 15:28

Tgt Ion: 75 Resp: 118055

Ion Ratio Lower Upper

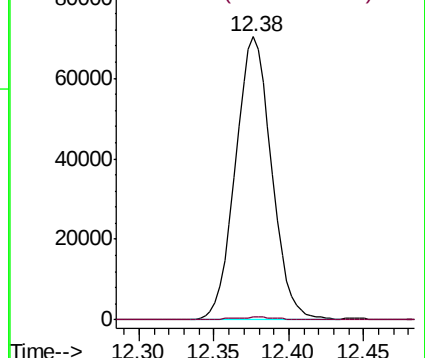
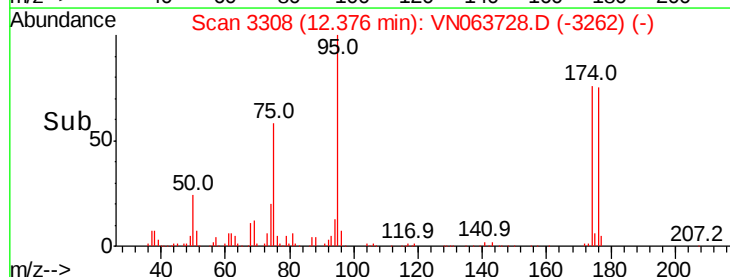
75 100

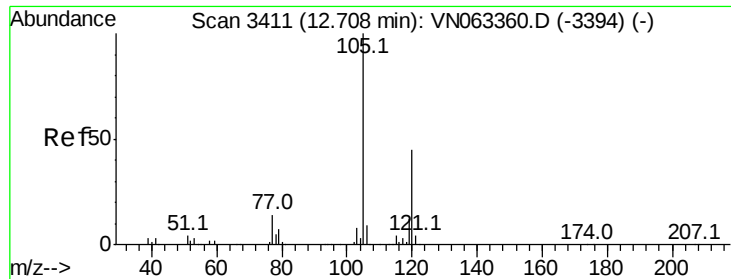
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN063360.D (-3349) (-)

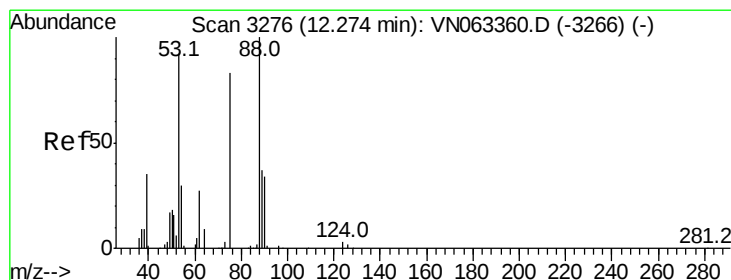
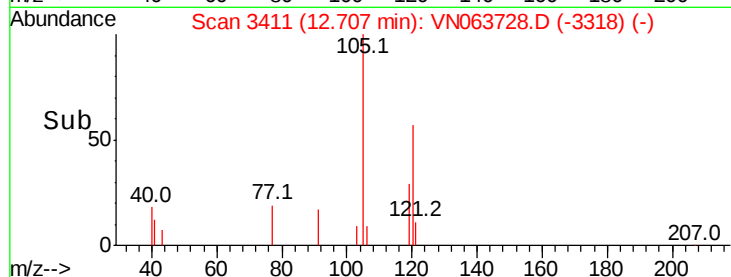
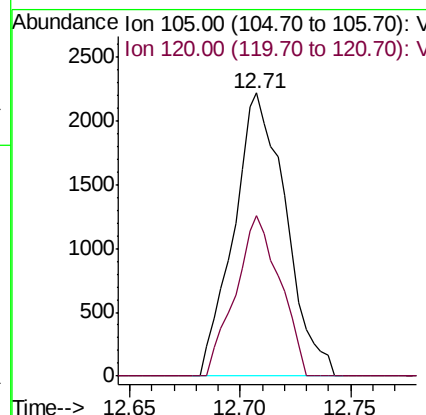
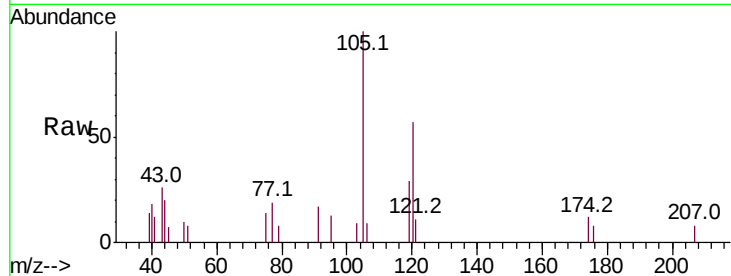




#80
 1,3,5-Trimethylbenzene
 Concen: 0.313 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063728.D
 Acq: 29 Sep 2020 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131952ZHE#01

Tot Ion:105 Resp: 3640
 Ion Ratio Lower Upper
 105 100
 120 48.5 22.9 68.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.188 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063728.D
 Acq: 29 Sep 2020 15:28

Tgt Ion: 75 Resp: 118055
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

