

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063371.D
 Acq On : 16 Sep 2020 17:54
 Operator : JC/MD
 Sample : PB131646ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#04

Quant Time: Sep 17 04:06:57 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	245213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	455554	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	453016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	190931	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	198641	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
35) Dibromofluoromethane	7.55	113	146423	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	10.06	98	583936	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
62) 4-Bromofluorobenzene	12.38	95	230358	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	

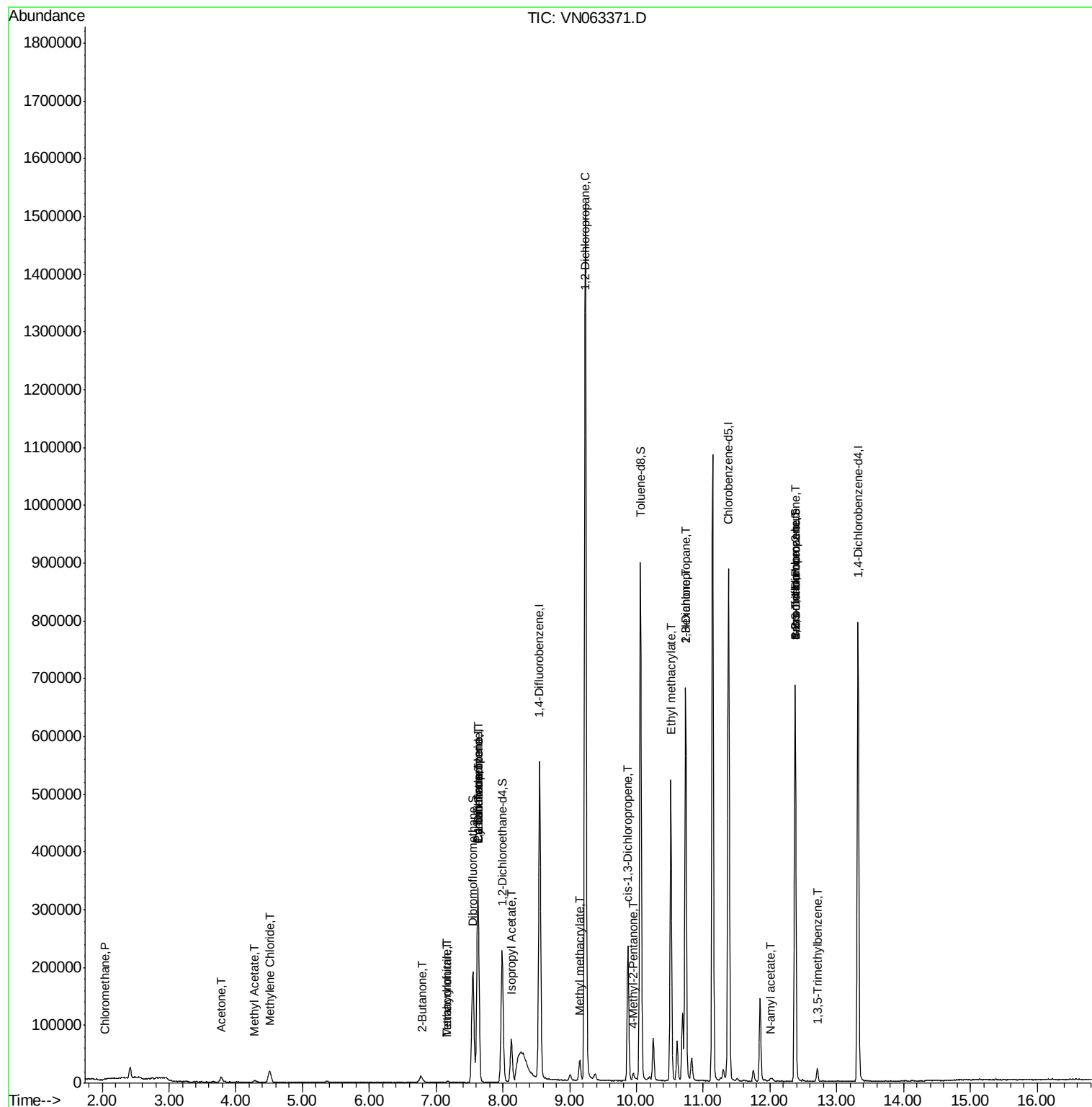
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	916	0.249	ug/l	89
16) Acetone	3.78	43	14107	10.516	ug/l #	88
18) Methyl Acetate	4.27	43	1231	0.361	ug/l	92
20) Methylene Chloride	4.51	84	13028	3.833	ug/l	97
25) 2-Butanone	6.79	43	3713	1.800	ug/l #	85
29) Tetrahydrofuran	7.18	42	1227	0.871	ug/l #	66
31) Cyclohexane	7.62	56	3432	0.595	ug/l #	17
36) 1,1-Dichloropropene	7.62	75	23267	4.794	ug/l #	48
38) Carbon Tetrachloride	7.63	117	26978	5.445	ug/l #	16
41) Methacrylonitrile	7.17	41	667	0.311	ug/l #	100
43) Isopropyl Acetate	8.13	43	91378	10.729	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1648	0.437	ug/l #	43
48) Methyl methacrylate	9.14	41	5396	1.289	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	10434	2.188	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	37782	6.227	ug/l #	61
56) Ethyl methacrylate	10.52	69	1332	0.258	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6517	1.092	ug/l #	42
59) 2-Hexanone	10.74	43	104573	30.272	ug/l #	54
71) Bromoform	12.37	173	632	0.241	ug/l #	1
74) N-amyl acetate	12.01	43	4787	0.661	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	131075	27.736	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	11288	0.885	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	131075	76.042	ug/l #	7

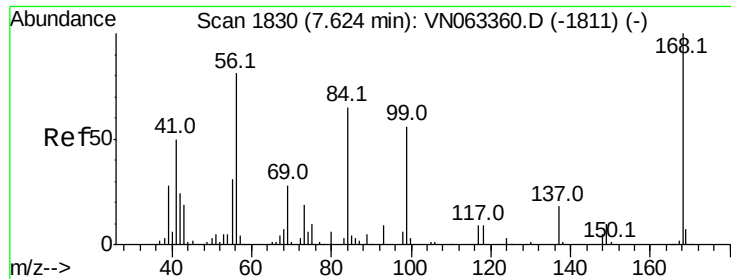
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
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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: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

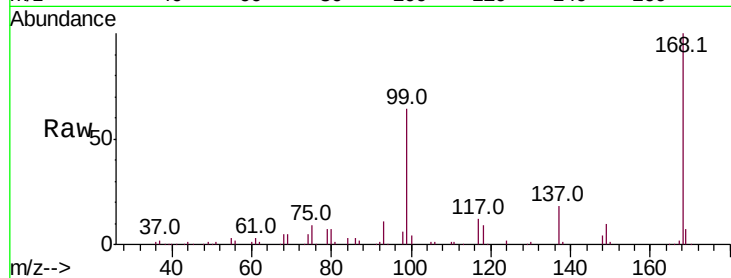
PB131646ZHE#04

Tot Ion:168 Resp: 245213

Ion Ratio Lower Upper

168 100

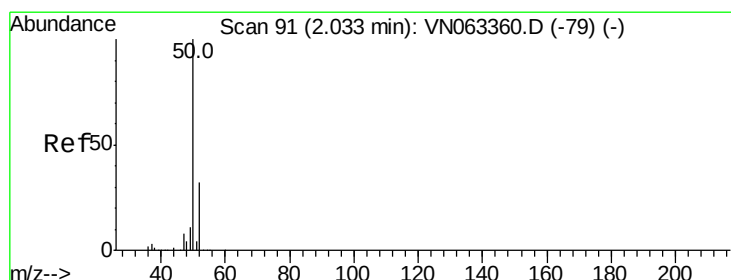
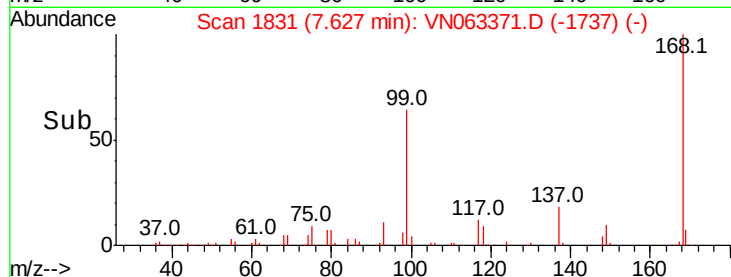
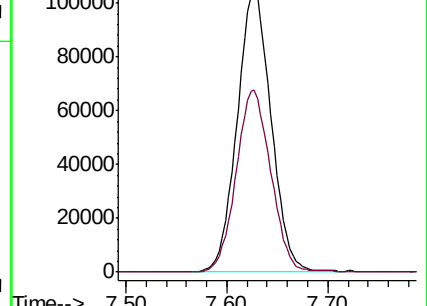
99 64.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63



#3

Chloromethane

Concen: 0.249 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.01 min

Lab File: VN063371.D

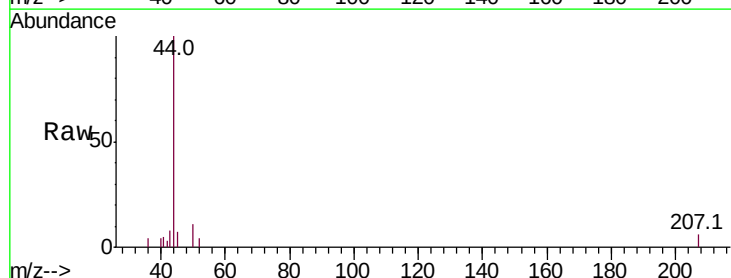
Acq: 16 Sep 2020 17:54

Tgt Ion: 50 Resp: 916

Ion Ratio Lower Upper

50 100

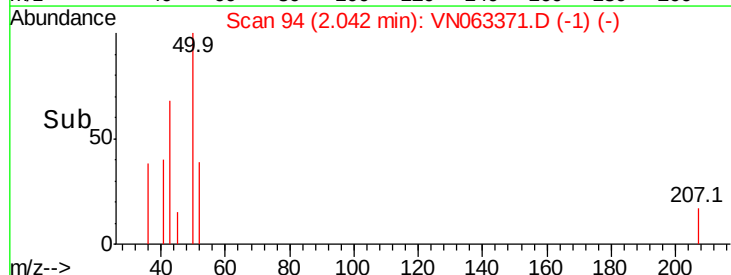
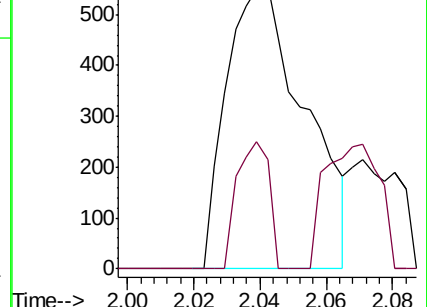
52 38.6 25.9 38.9

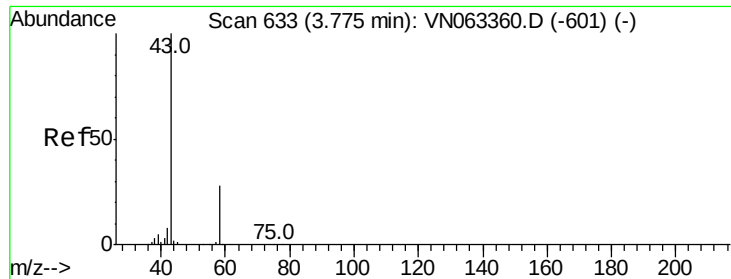


Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04





#16

Acetone

Concen: 10.516 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

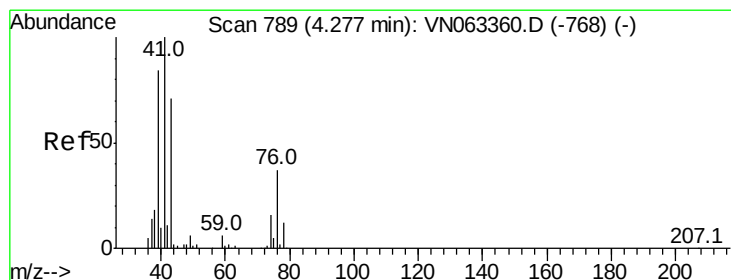
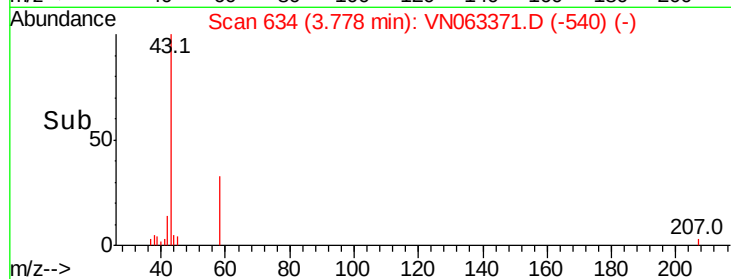
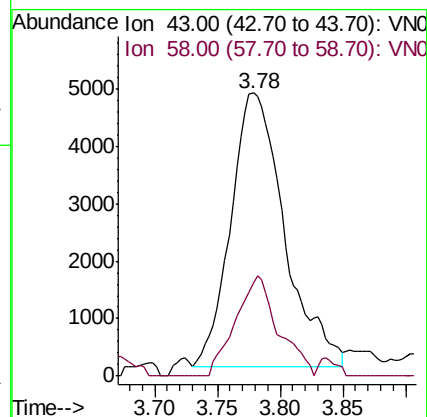
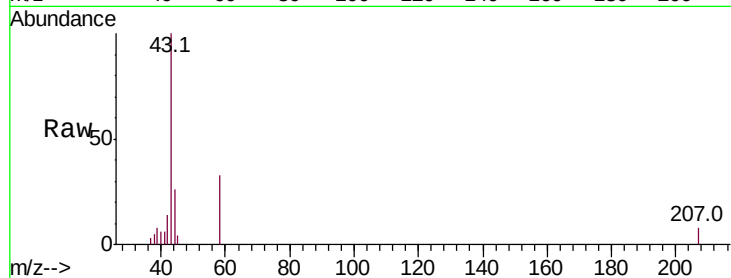
PB131646ZHE#04

Tot Ion: 43 Resp: 14107

Ion Ratio Lower Upper

43 100

58 34.2 22.3 33.5#



#18

Methyl Acetate

Concen: 0.361 ug/l

RT: 4.27 min Scan# 786

Delta R.T. -0.01 min

Lab File: VN063371.D

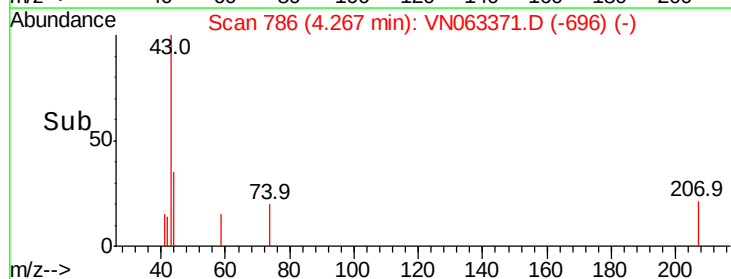
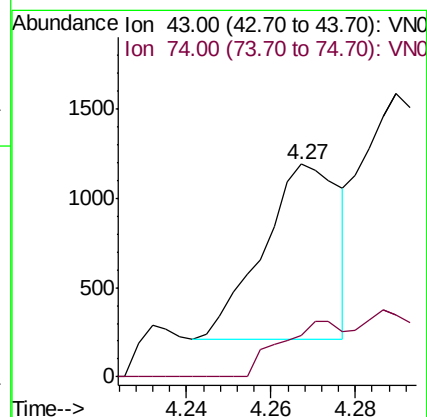
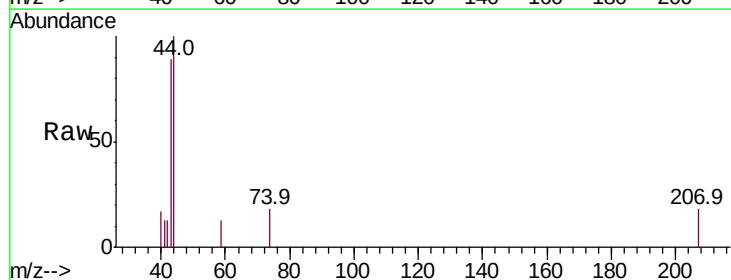
Acq: 16 Sep 2020 17:54

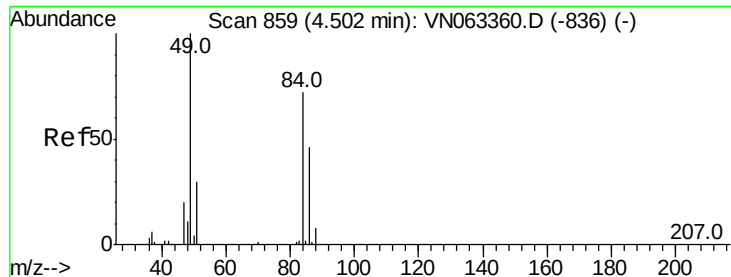
Tgt Ion: 43 Resp: 1231

Ion Ratio Lower Upper

43 100

74 25.8 17.4 26.2

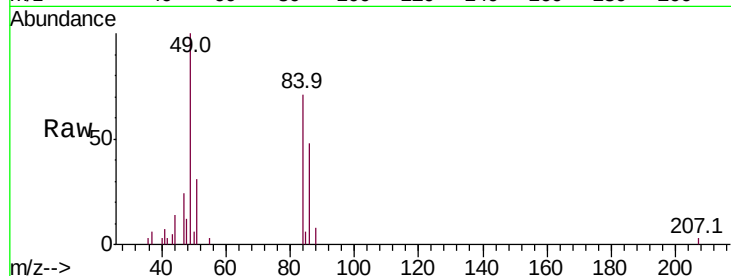




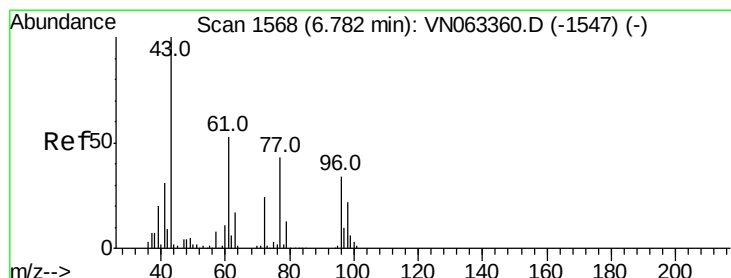
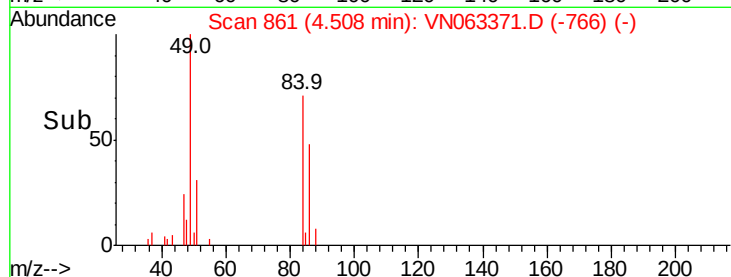
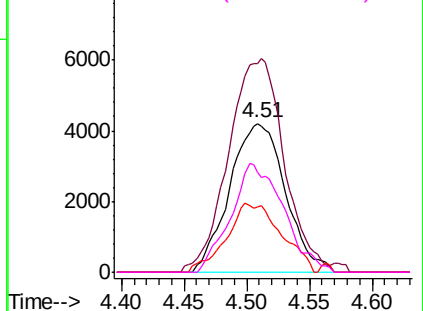
#20
Methvlene Chloride
Concen: 3.833 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#04

Tot Ion:	84	Resp:	13028
Ion	Ratio	Lower	Upper
84	100		
49	135.1	110.7	166.1
51	44.0	32.9	49.3
86	67.1	51.1	76.7

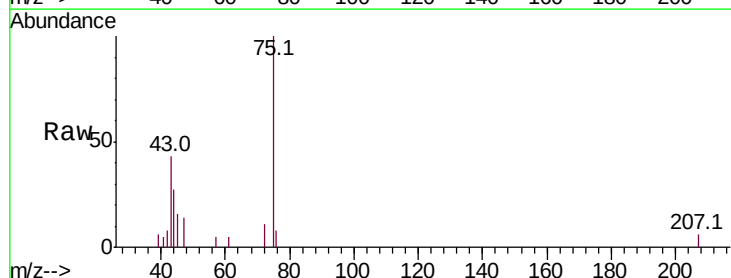


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

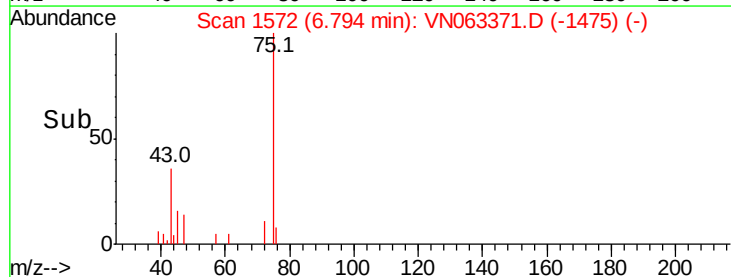
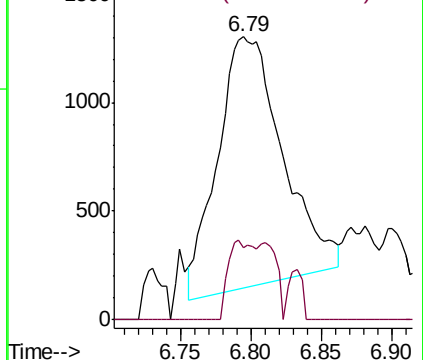


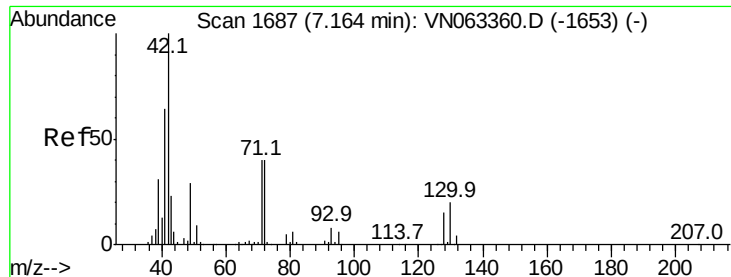
#25
2-Butanone
Concen: 1.800 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Tgt Ion:	43	Resp:	3713
Ion	Ratio	Lower	Upper
43	100		
72	31.2	19.2	28.8#



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





#29

Tetrahydrofuran

Concen: 0.871 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#04

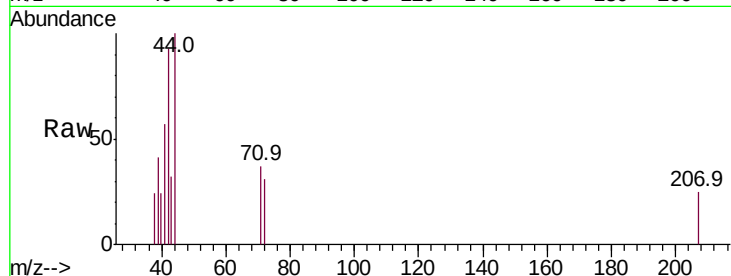
Tot Ion: 42 Resp: 1227

Ion Ratio Lower Upper

42 100

72 18.8 32.1 48.1#

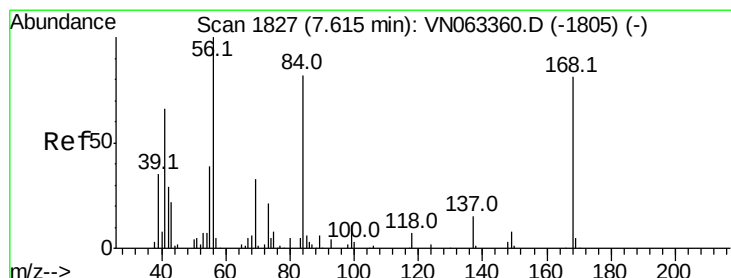
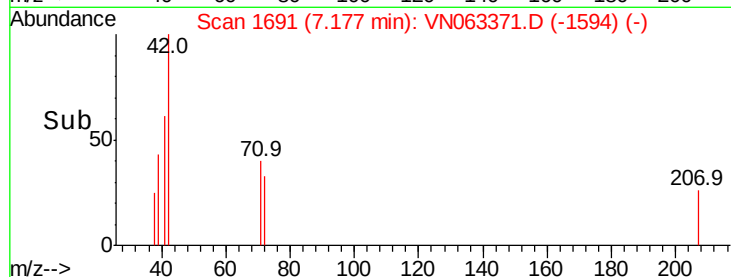
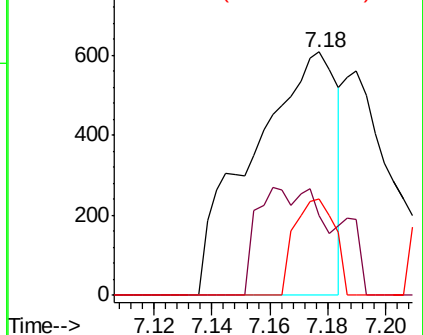
71 18.7 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.595 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

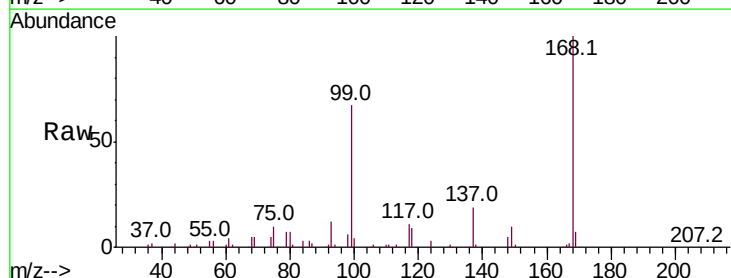
Tgt Ion: 56 Resp: 3432

Ion Ratio Lower Upper

56 100

69 155.3 26.1 39.1#

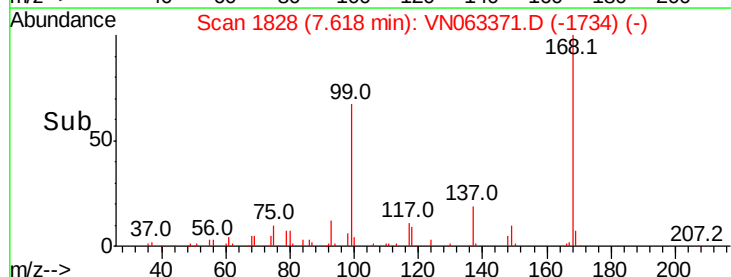
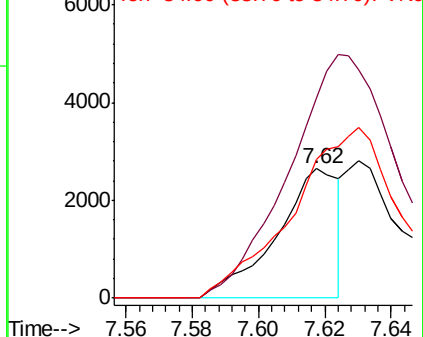
84 107.5 65.4 98.2#

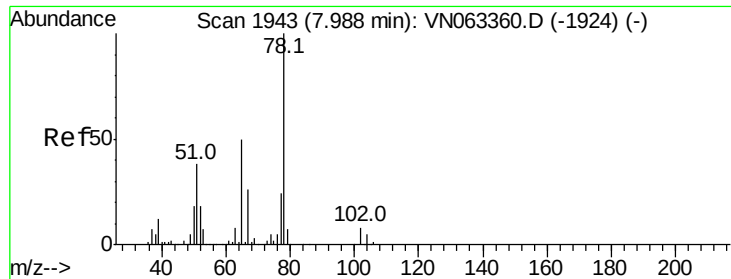


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

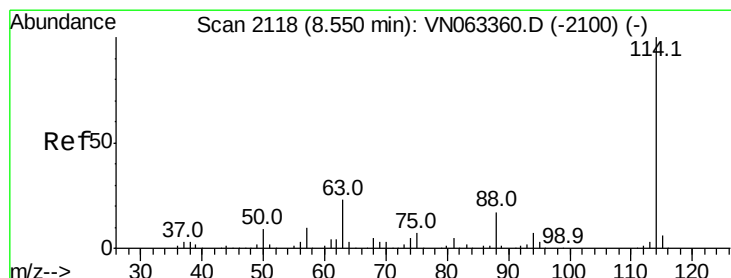
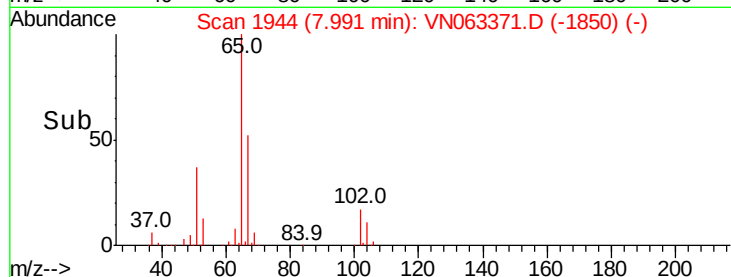
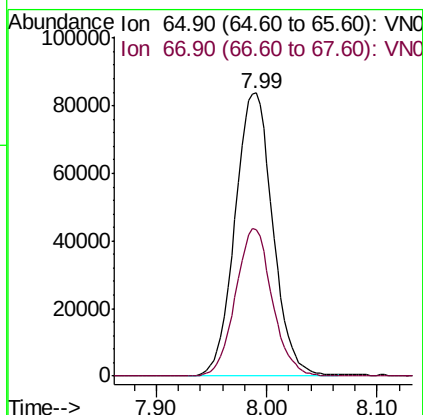
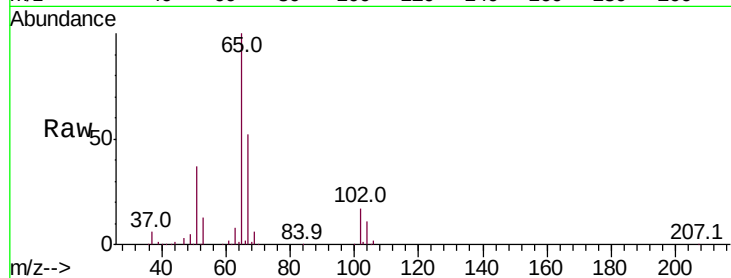




#33
 1,2-Dichloroethane-d4
 Concen: 47.588 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063371.D
 Acq: 16 Sep 2020 17:54

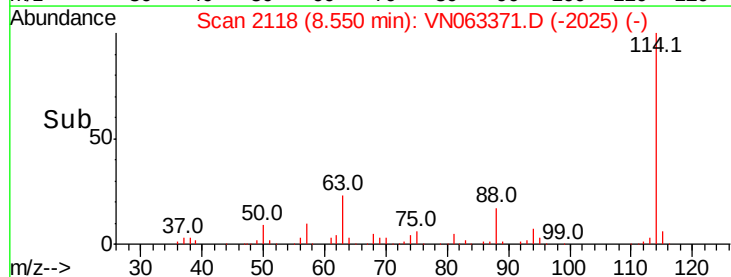
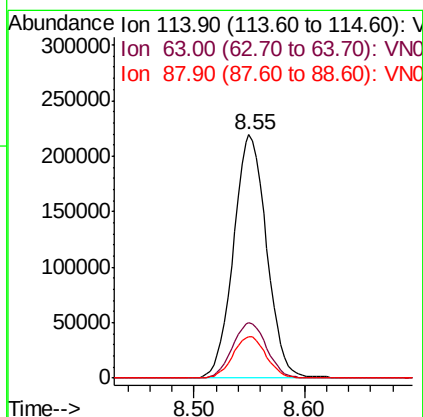
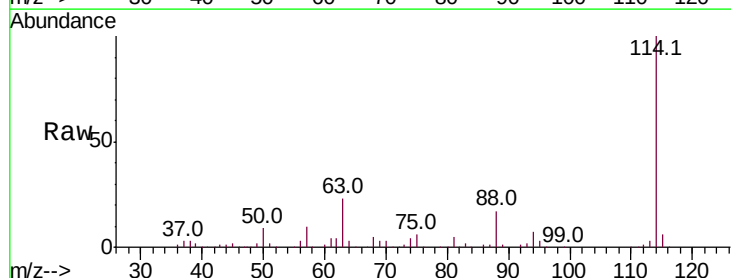
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 PB131646ZHE#04

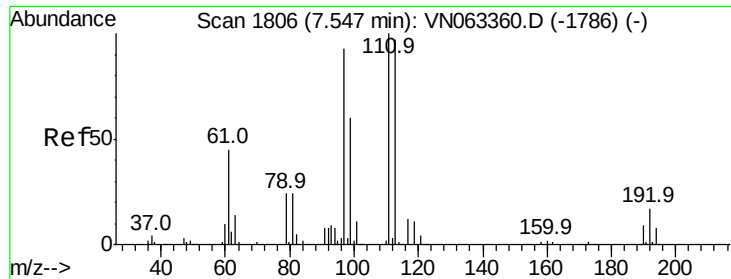
Tot Ion: 65 Resp: 198641
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063371.D
 Acq: 16 Sep 2020 17:54

Tgt Ion: 114 Resp: 455554
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.4
 88 17.2 0.0 33.2

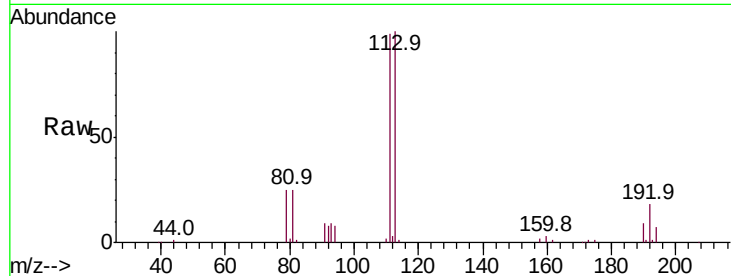




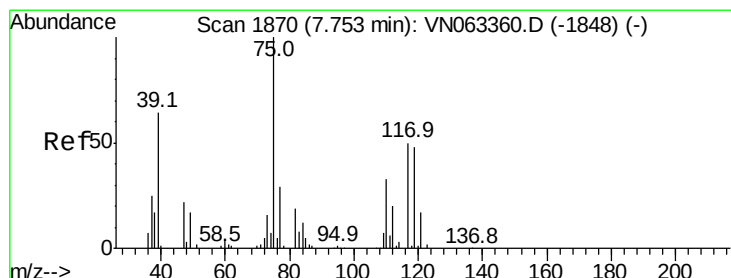
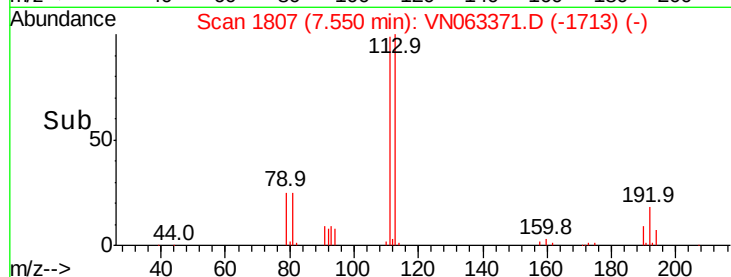
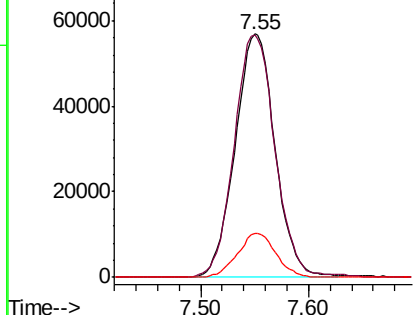
#35
Dibromofluoromethane
Concen: 46.429 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#04

Tot Ion:113 Resp: 146423
Ion Ratio Lower Upper
113 100
111 101.4 82.9 124.3
192 17.4 13.9 20.9

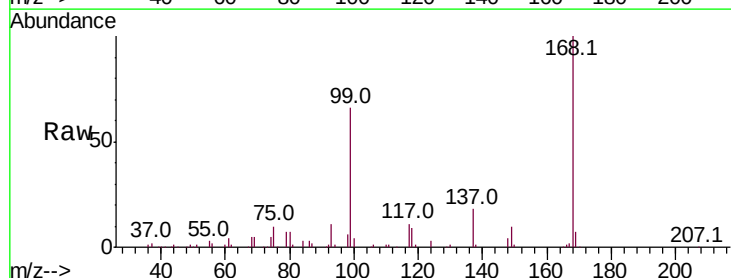


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

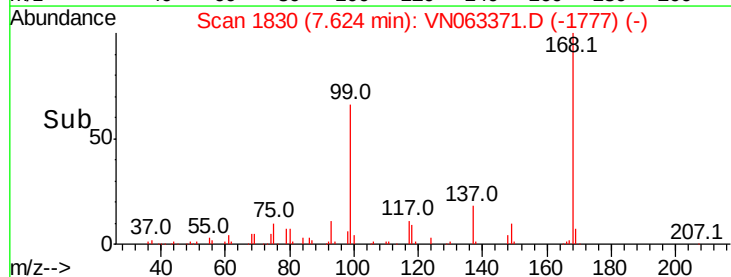
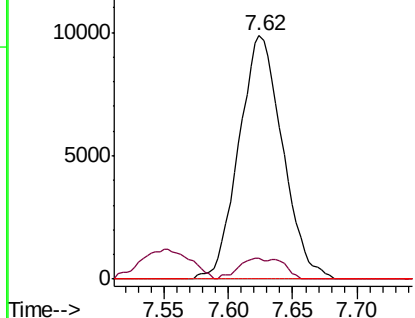


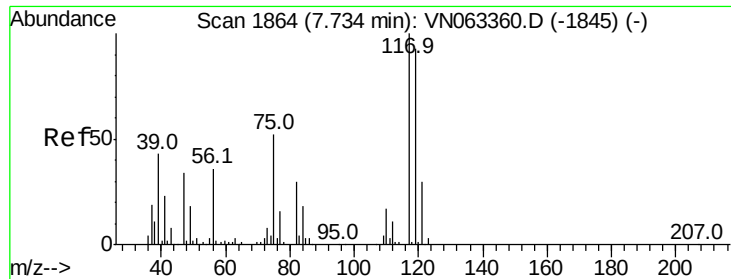
#36
1,1-Dichloropropene
Concen: 4.794 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.13 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Tgt Ion: 75 Resp: 23267
Ion Ratio Lower Upper
75 100
110 5.5 16.5 49.5#
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

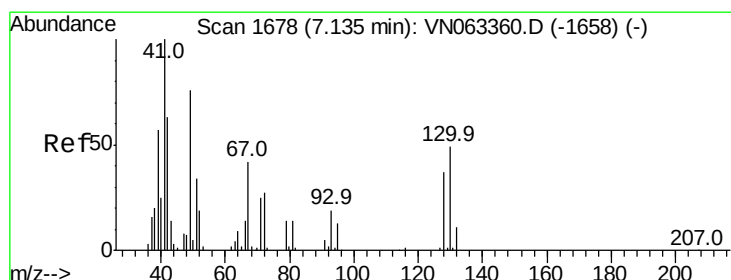
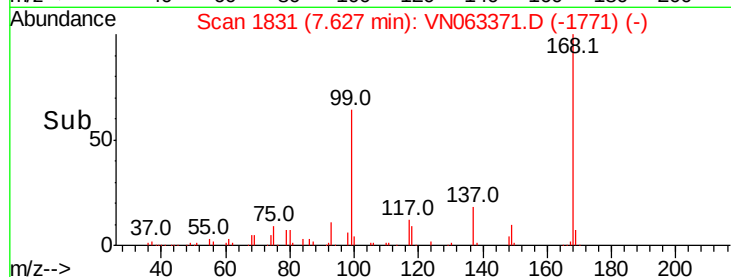
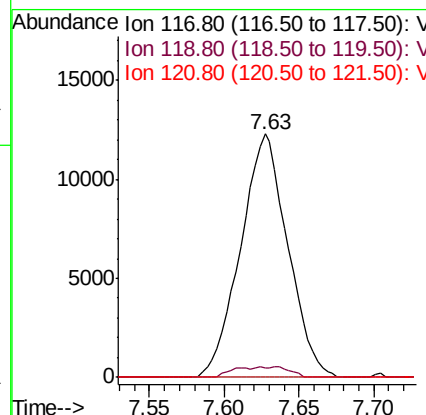
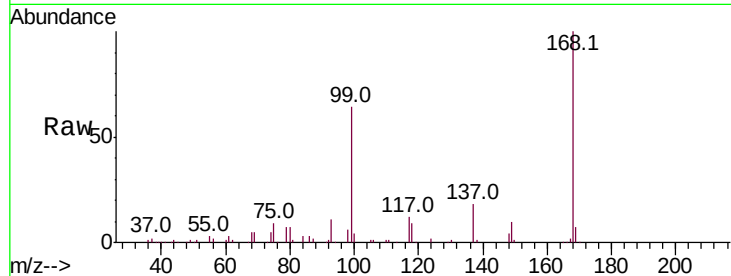




#38
Carbon Tetrachloride
Concen: 5.445 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

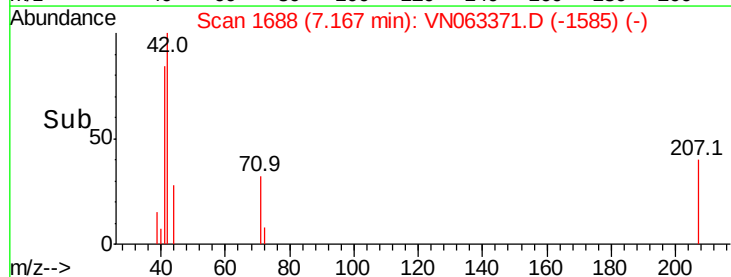
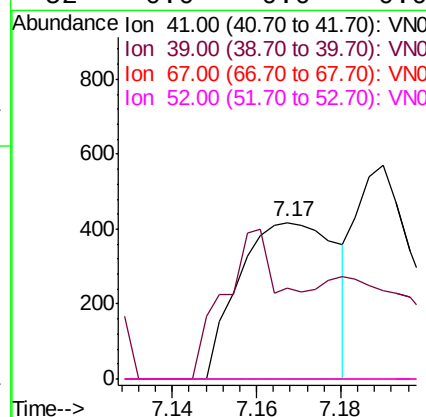
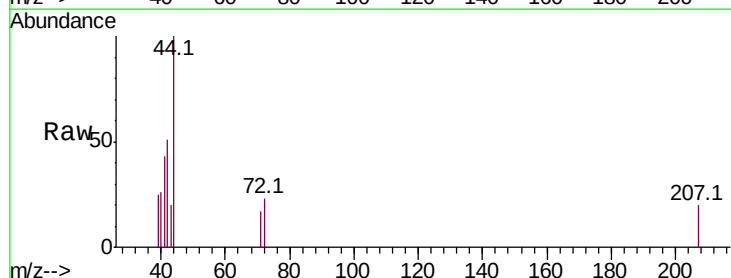
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#04

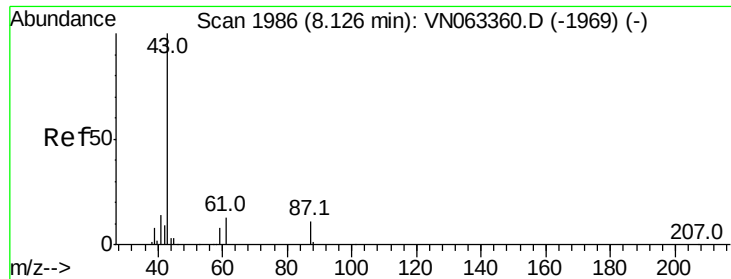
Tot Ion:117 Resp: 26978
Ion Ratio Lower Upper
117 100
119 4.1 74.5 111.7#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.311 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.03 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Tgt Ion: 41 Resp: 667
Ion Ratio Lower Upper
41 100
39 61.2 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 10.729 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#04

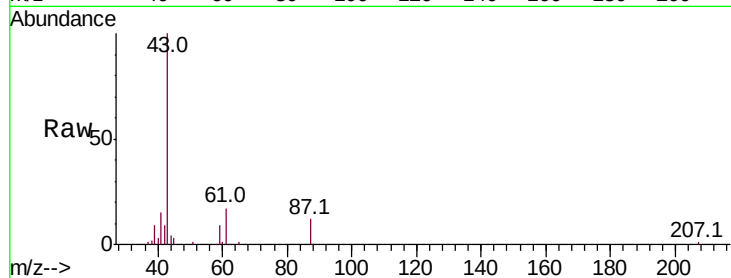
Tot Ion: 43 Resp: 91378

Ion Ratio Lower Upper

43 100

61 18.6 14.2 21.2

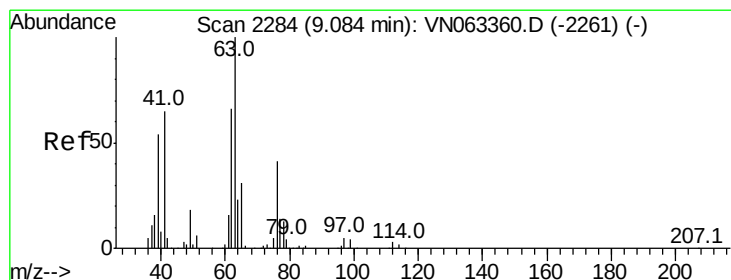
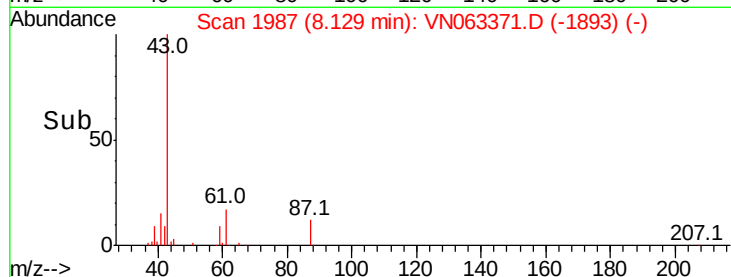
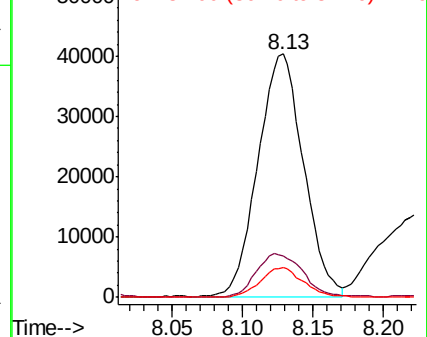
87 11.5 9.0 13.6



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: 0.437 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063371.D

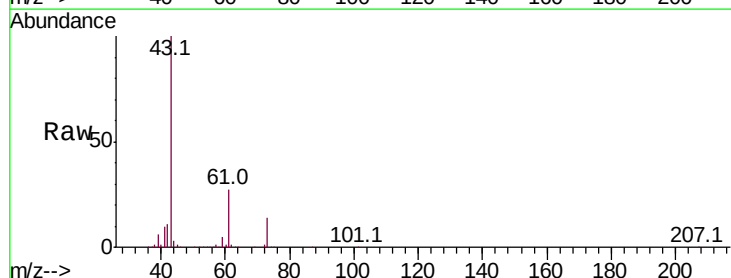
Acq: 16 Sep 2020 17:54

Tgt Ion: 63 Resp: 1648

Ion Ratio Lower Upper

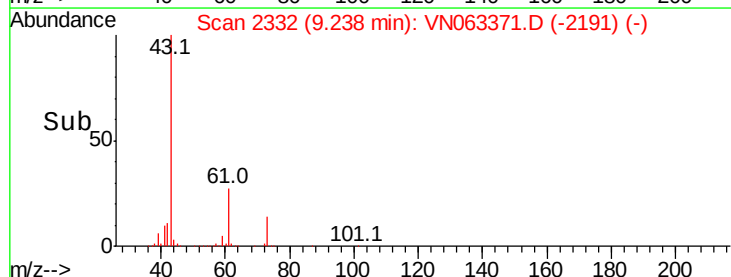
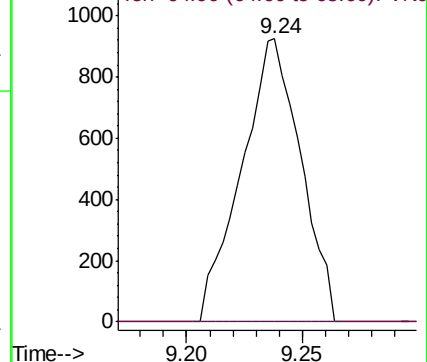
63 100

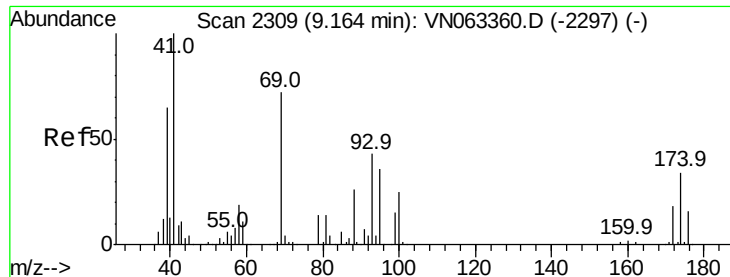
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methvl methacrylate

Concen: 1.289 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#04

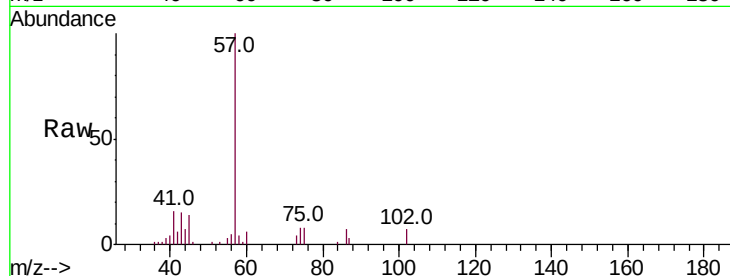
Tot Ion: 41 Resp: 5396

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

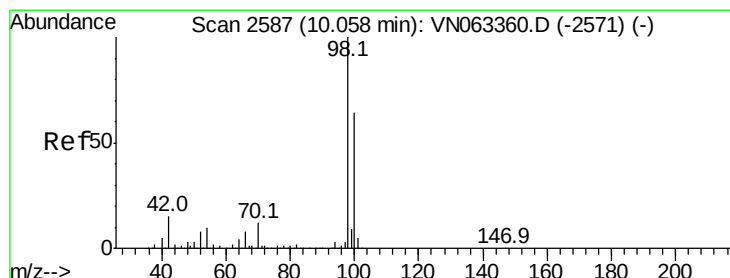
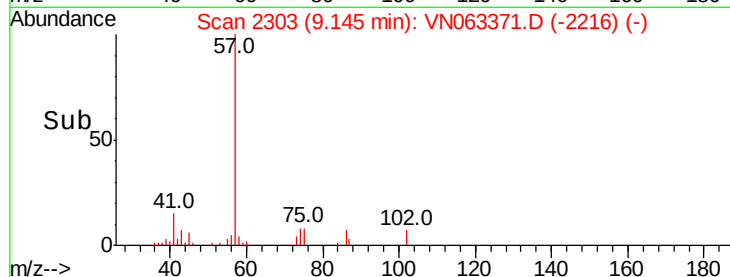
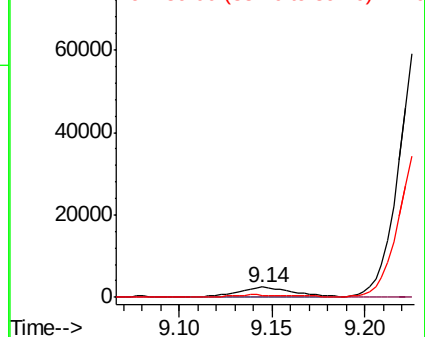
39 0.0 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 49.242 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063371.D

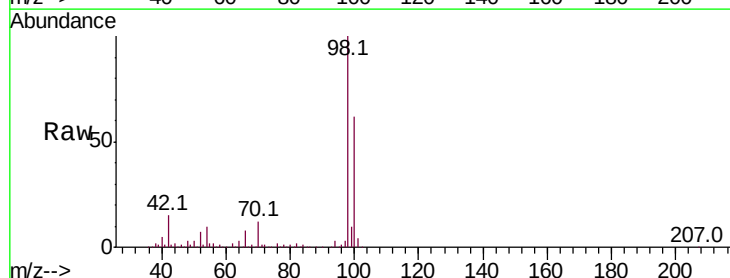
Acq: 16 Sep 2020 17:54

Tgt Ion: 98 Resp: 583936

Ion Ratio Lower Upper

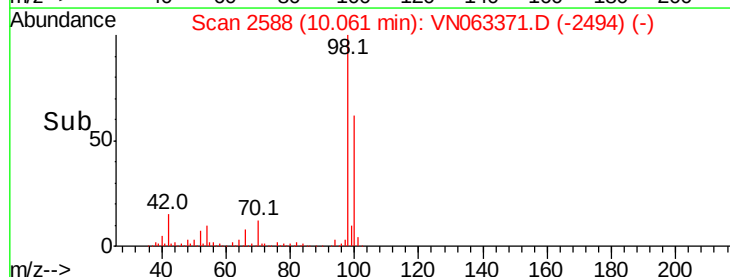
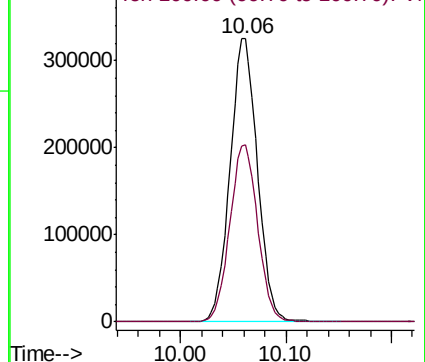
98 100

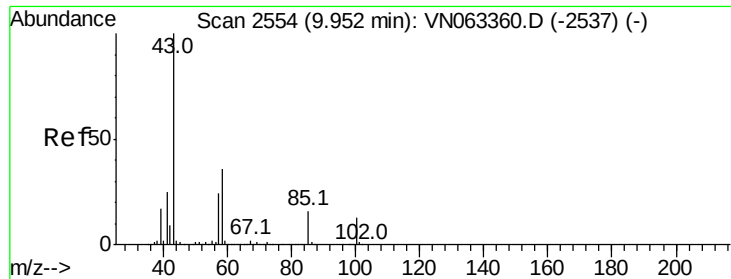
100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.188 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

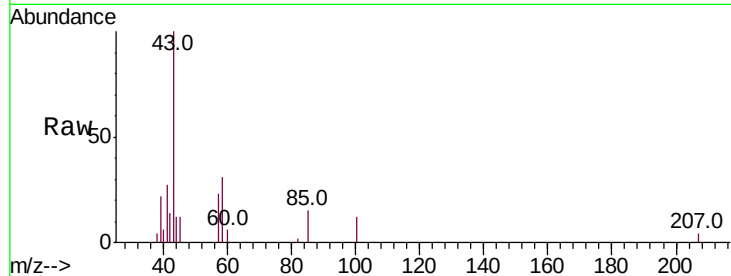
PB131646ZHE#04

Tot Ion: 43 Resp: 10434

Ion Ratio Lower Upper

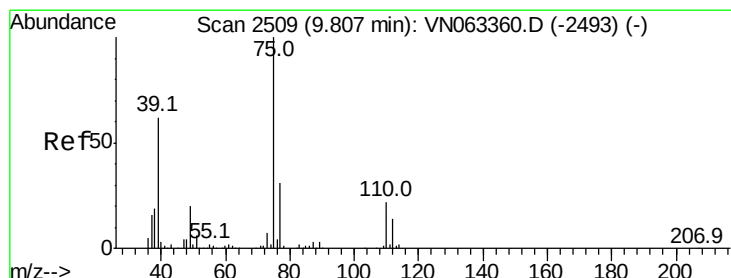
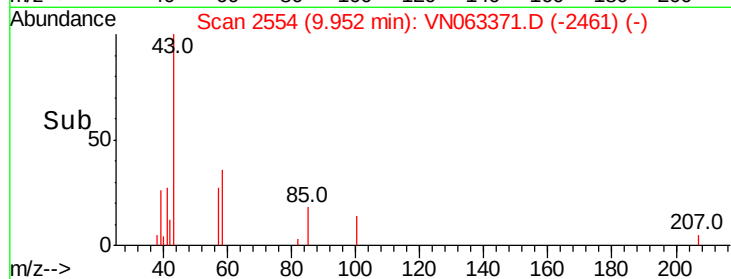
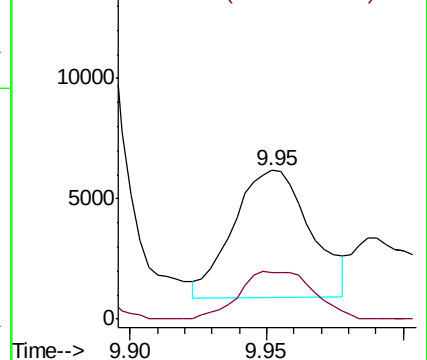
43 100

58 36.1 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: 6.227 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

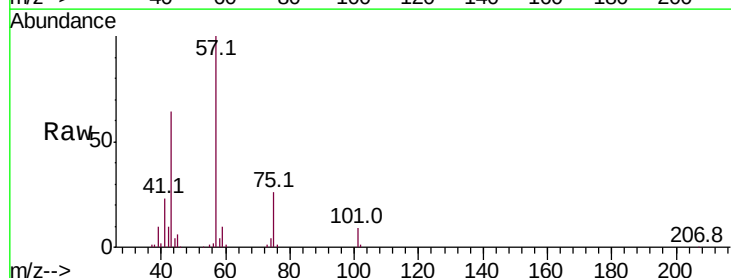
Tgt Ion: 75 Resp: 37782

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

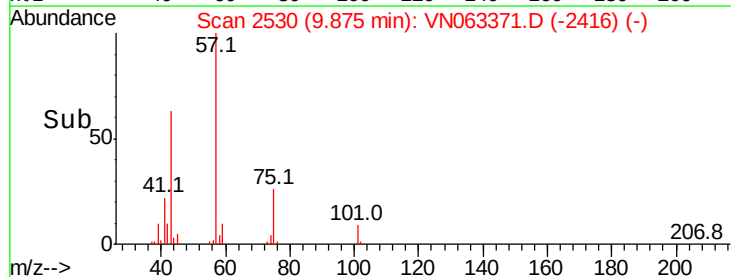
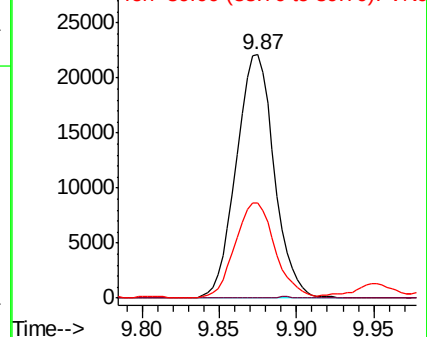
39 38.8 49.8 74.8#

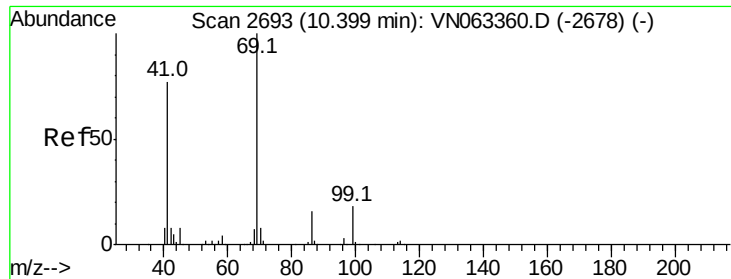


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.258 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#04

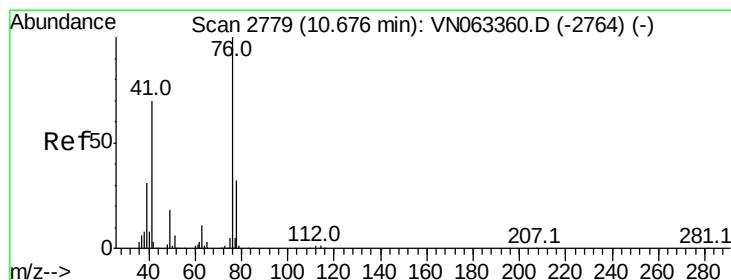
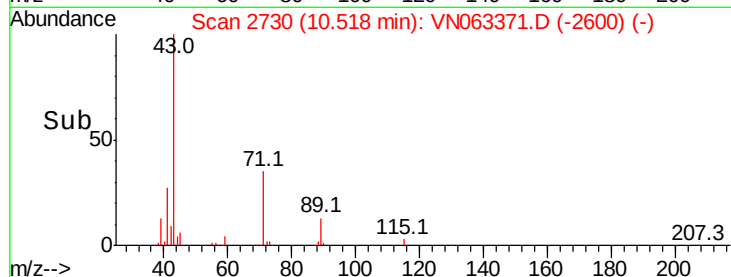
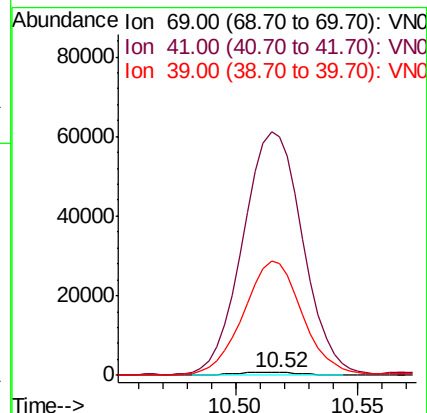
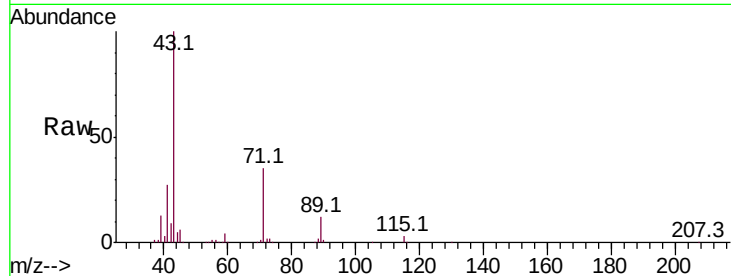
Tot Ion: 69 Resp: 1332

Ion Ratio Lower Upper

69 100

41 7805.5 61.0 91.6#

39 3648.8 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 1.092 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063371.D

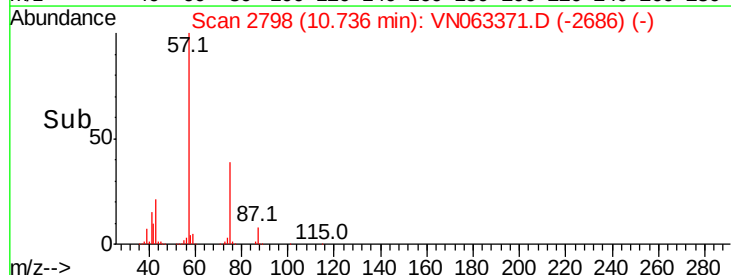
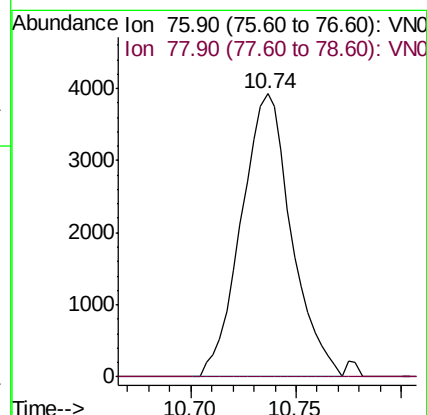
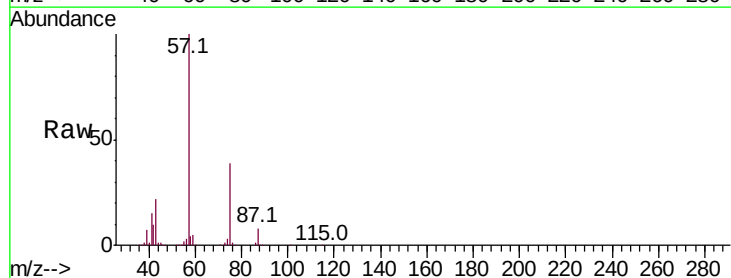
Acq: 16 Sep 2020 17:54

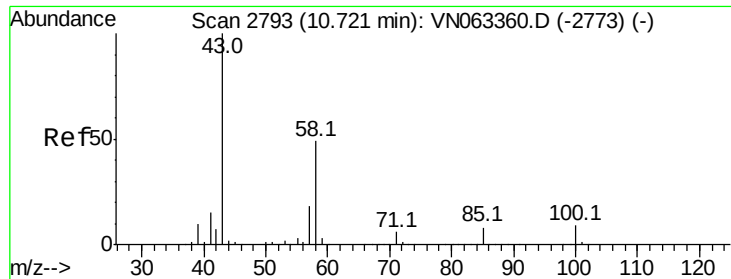
Tgt Ion: 76 Resp: 6517

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

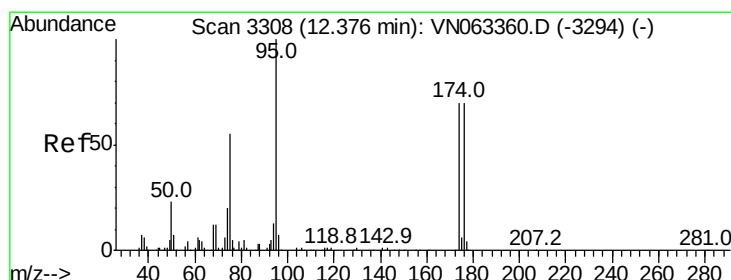
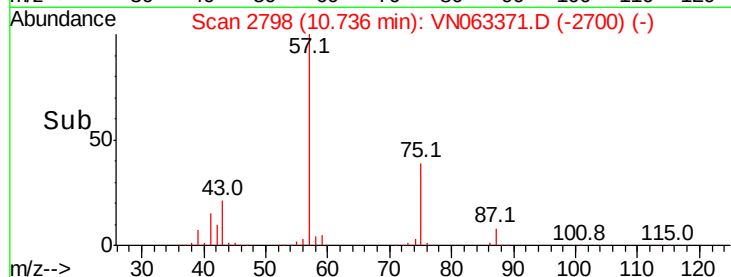
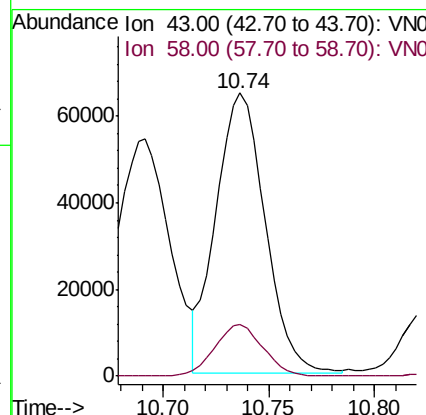
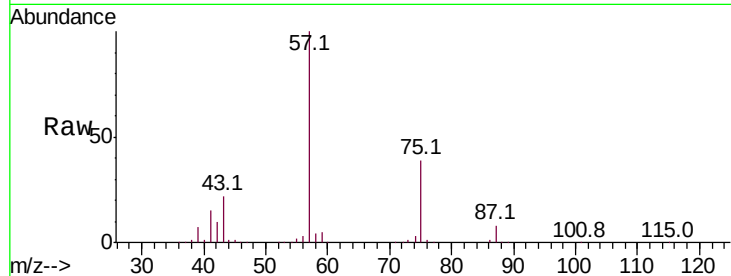




#59
2-Hexanone
Concen: 30.272 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

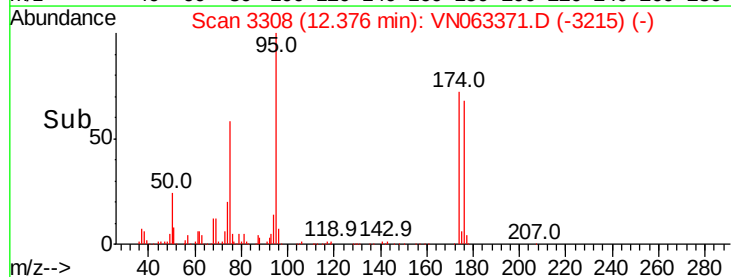
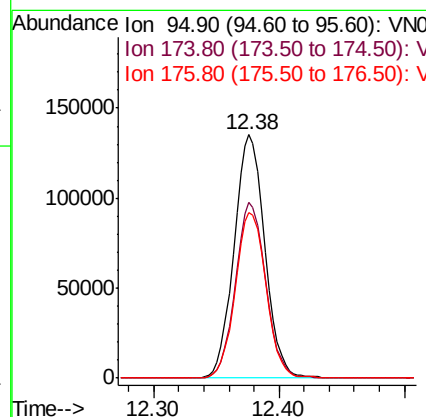
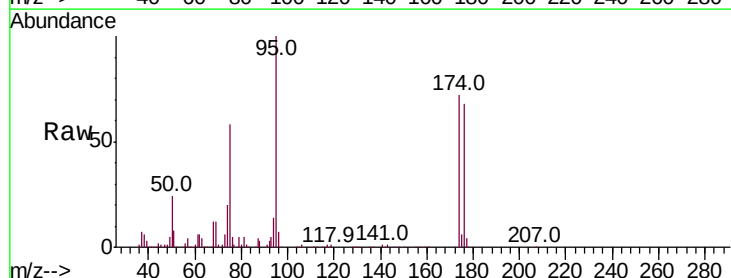
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#04

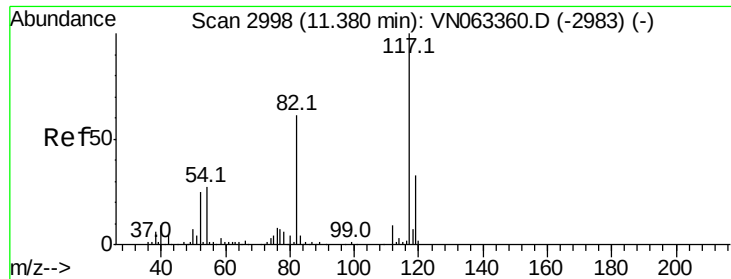
Tot Ion: 43 Resp: 104573
Ion Ratio Lower Upper
43 100
58 18.2 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 52.991 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Tgt Ion: 95 Resp: 230358
Ion Ratio Lower Upper
95 100
174 71.1 0.0 140.8
176 68.0 0.0 137.6

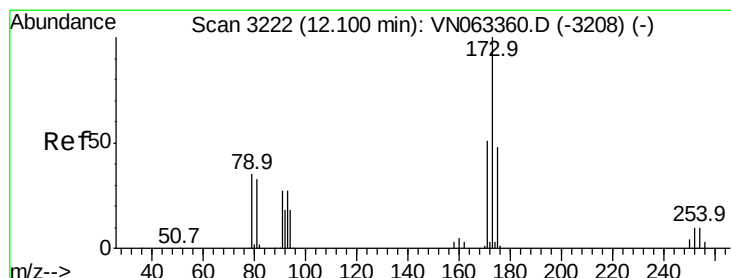
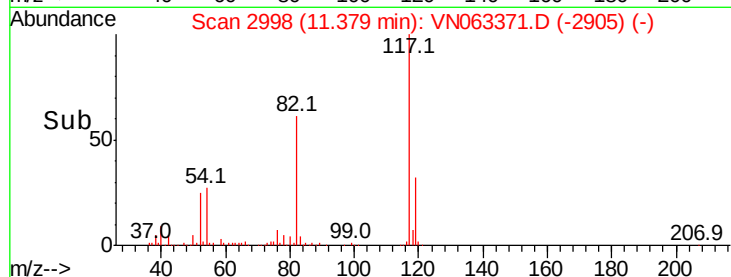
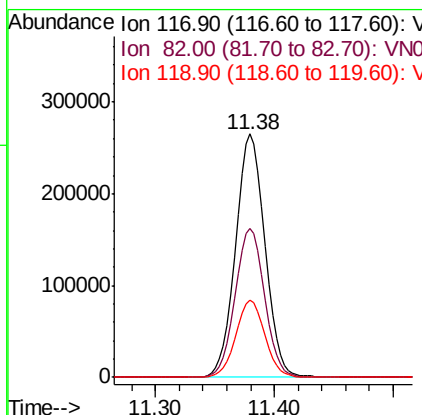
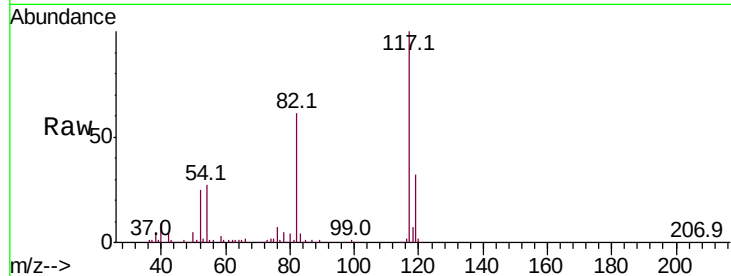




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

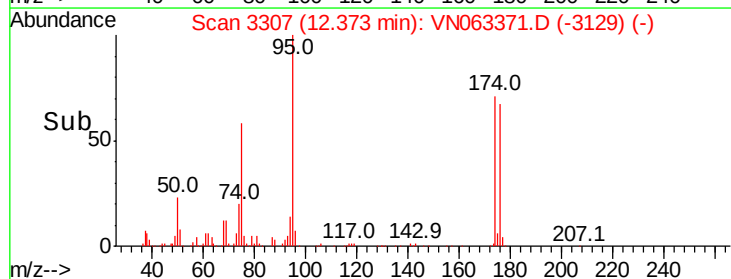
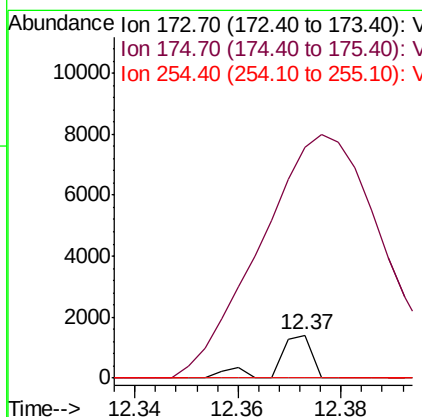
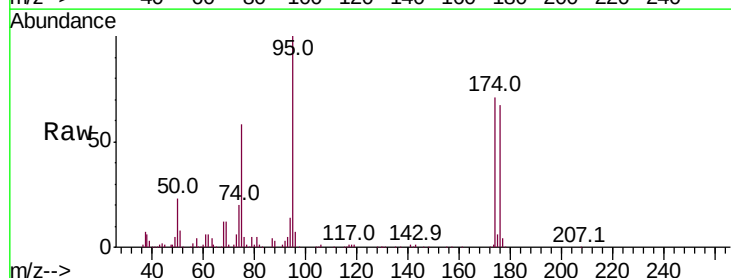
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#04

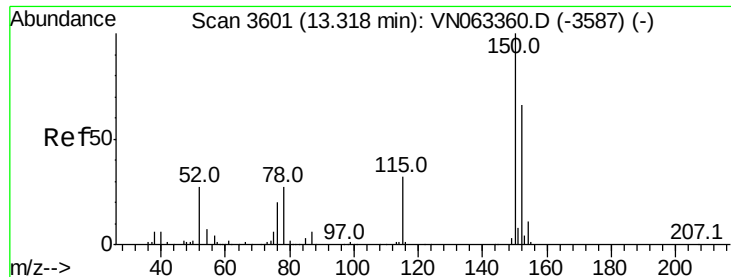
Tot Ion:117 Resp: 453016
Ion Ratio Lower Upper
117 100
82 61.4 49.2 73.8
119 31.9 26.2 39.4



#71
Bromoform
Concen: 0.241 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063371.D
Acq: 16 Sep 2020 17:54

Tgt Ion:173 Resp: 632
Ion Ratio Lower Upper
173 100
175 1762.3 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#04

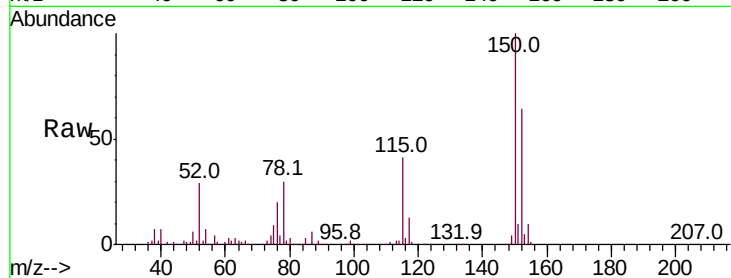
Tot Ion:152 Resp: 190931

Ion Ratio Lower Upper

152 100

115 64.0 32.2 96.6

150 158.4 0.0 343.4

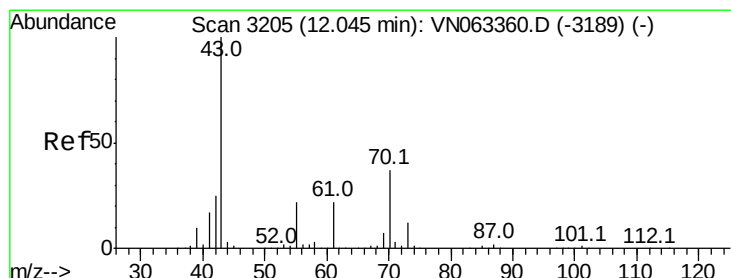
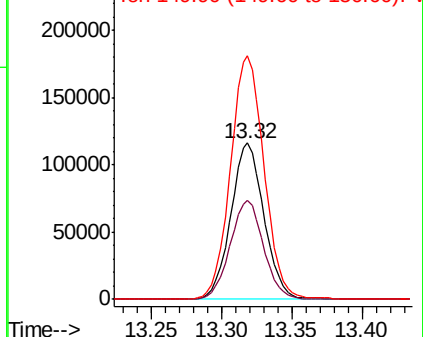
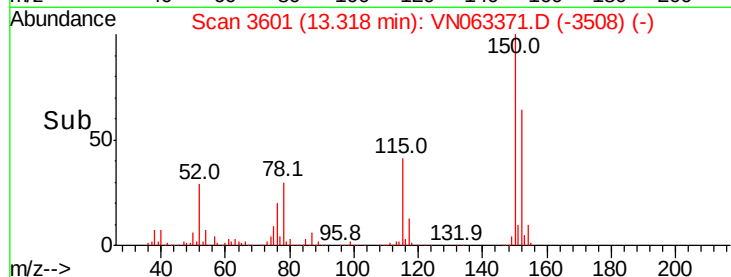


Abundance

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-ethyl acetate

Concen: 0.661 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Tgt Ion: 43 Resp: 4787

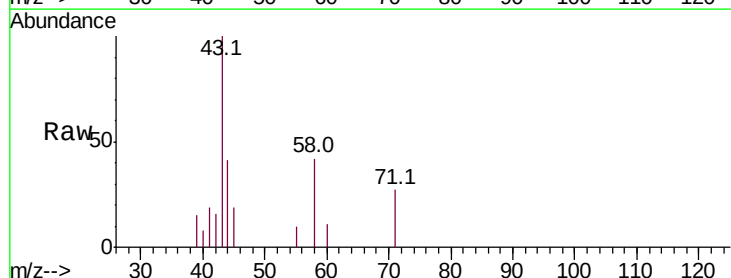
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 5.4 17.7 26.5#

61 0.0 17.4 26.2#



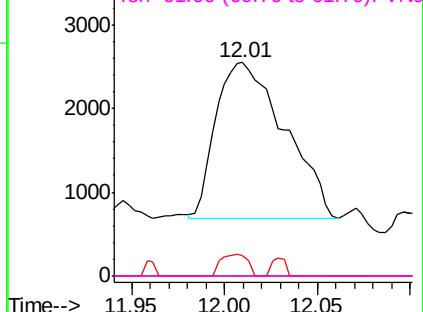
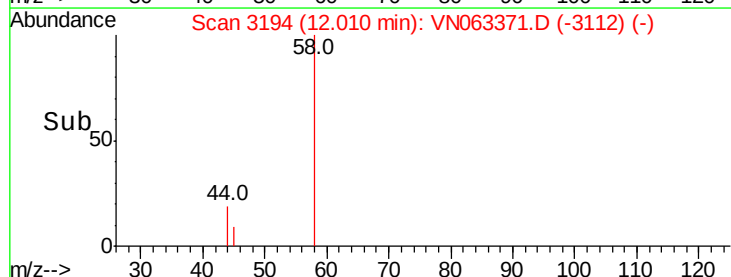
Abundance

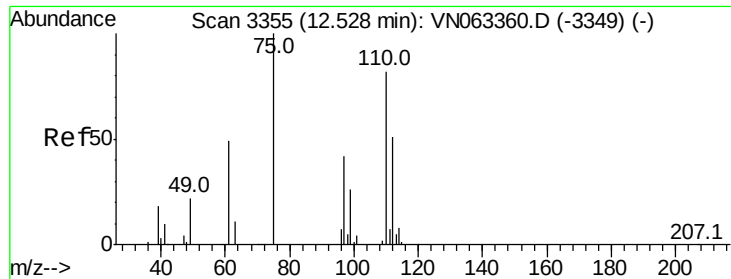
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.736 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

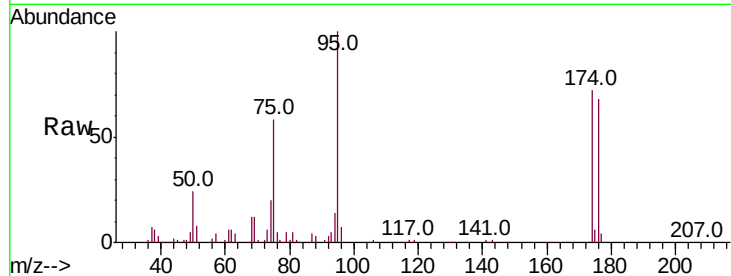
PB131646ZHE#04

Tot Ion: 75 Resp: 131075

Ion Ratio Lower Upper

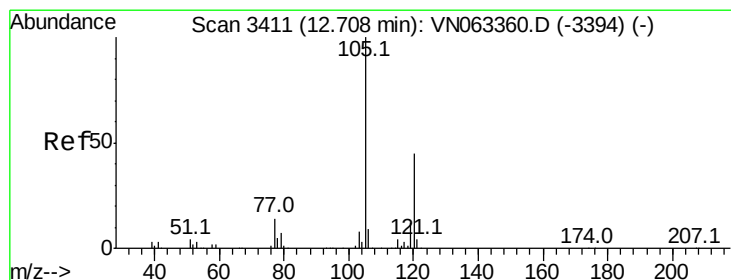
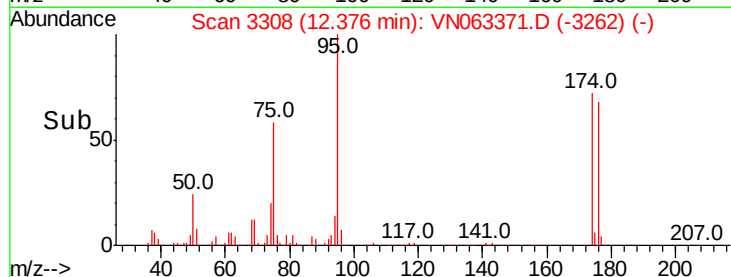
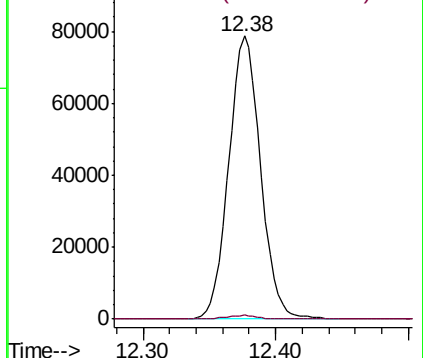
75 100

77 1.2 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: 0.885 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063371.D

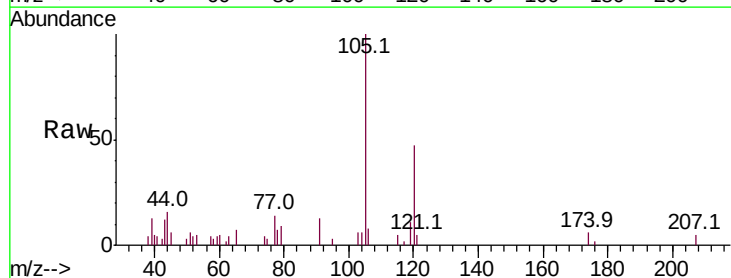
Acq: 16 Sep 2020 17:54

Tgt Ion: 105 Resp: 11288

Ion Ratio Lower Upper

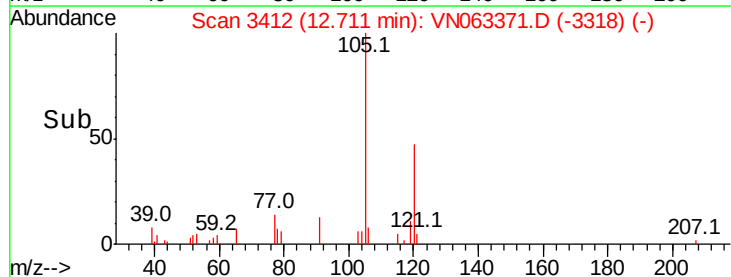
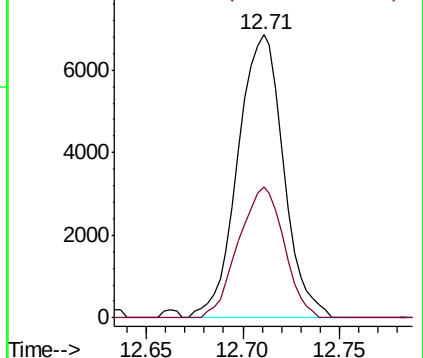
105 100

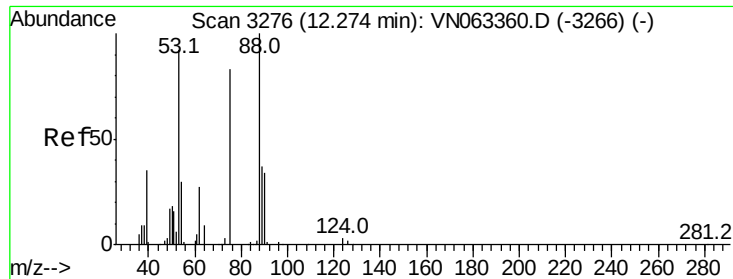
120 46.0 22.9 68.8



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: 76.042 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063371.D

Acq: 16 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#04

Tot Ion: 75 Resp: 131075

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

