

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070220\
 Data File : VN062353.D
 Acq On : 2 Jul 2020 23:20
 Operator : JC/MD
 Sample : L3188-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-070120

Quant Time: Jul 03 00:38:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	133059	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	275238	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	276451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97220	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	109955	58.89	ug/l	0.00
Spiked Amount			Recovery	=	117.78%	
35) Dibromofluoromethane	7.55	113	86973	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
50) Toluene-d8	10.06	98	368421	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	12.38	95	114988	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	

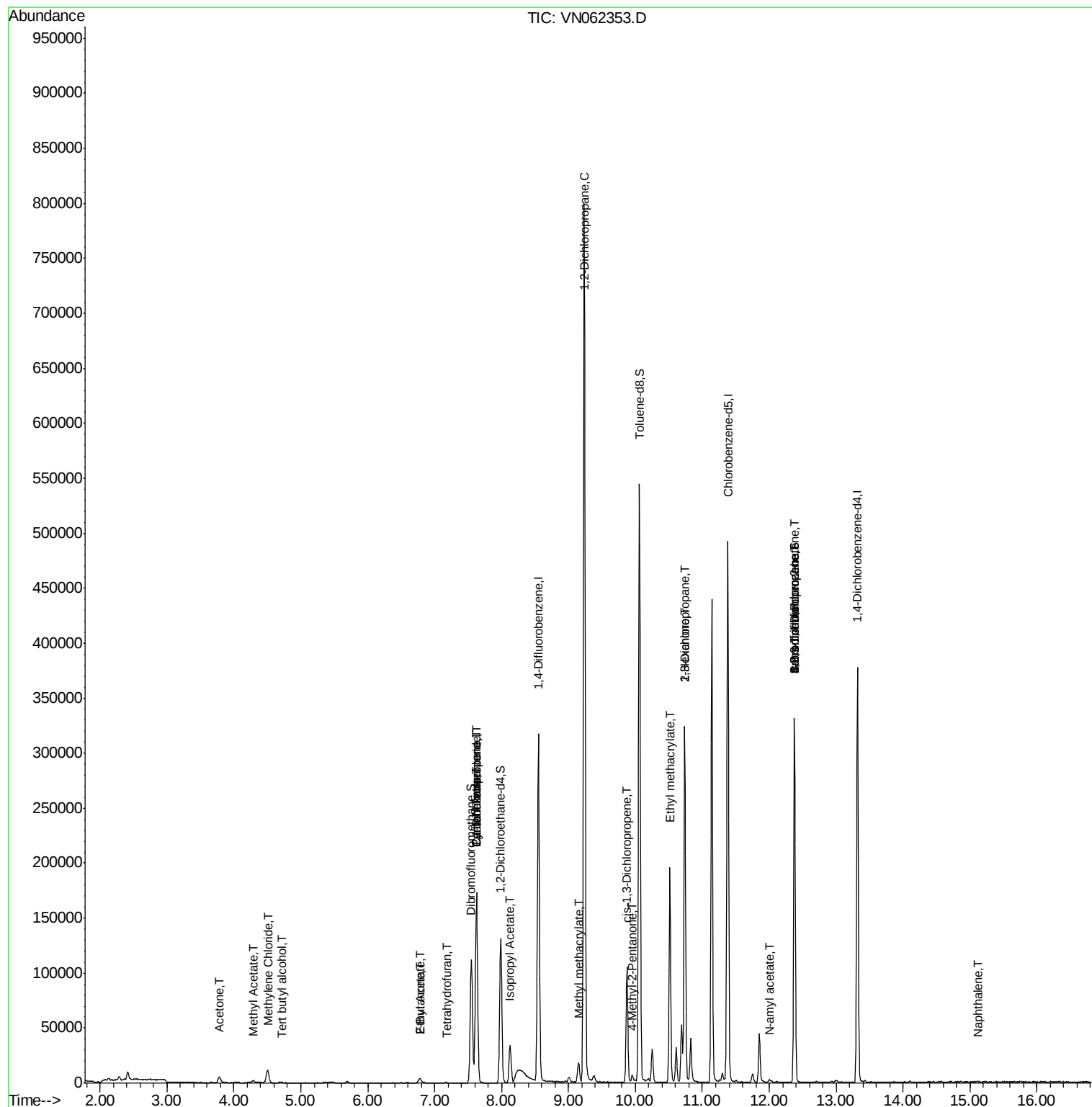
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	29	Below Cal	#	41
11) Tert butyl alcohol	4.72	59	95	0.354	ug/l #	72
16) Acetone	3.78	43	9808	12.892	ug/l	98
18) Methyl Acetate	4.28	43	4334	2.920	ug/l #	64
20) Methylene Chloride	4.51	84	8655	4.853	ug/l	95
25) 2-Butanone	6.79	43	943	1.033	ug/l #	44
29) Tetrahydrofuran	7.18	42	326	0.545	ug/l #	28
31) Cyclohexane	7.62	56	3453	1.338	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	12361	4.468	ug/l #	47
37) Ethyl Acetate	6.79	43	943	0.412	ug/l #	66
38) Carbon Tetrachloride	7.63	117	13936	5.343	ug/l #	16
43) Isopropyl Acetate	8.13	43	39662	10.621	ug/l	97
45) 1,2-Dichloropropane	9.24	63	1005	0.483	ug/l #	43
48) Methyl methacrylate	9.15	41	3331	1.989	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4488	2.057	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	19182	5.750	ug/l #	71
56) Ethyl methacrylate	10.52	69	904	0.335	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3558	1.022	ug/l #	42
59) 2-Hexanone	10.74	43	44605	28.311	ug/l #	49
71) Bromoform	12.37	173	1068	0.716	ug/l #	1
74) N-amyl acetate	12.00	43	2017	4.023	ug/l #	38
76) 1,2,3-Trichloropropane	12.37	75	60586	26.473	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	60586	77.310	ug/l #	13
95) Naphthalene	15.11	128	674	4.129	ug/l #	69

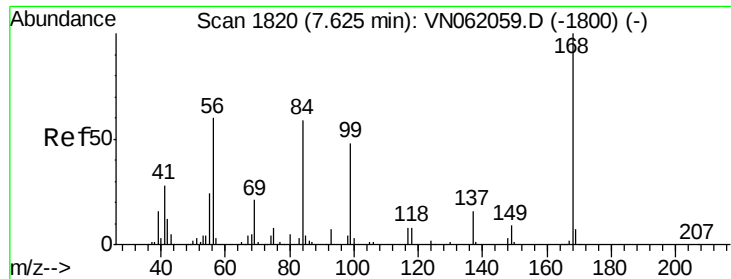
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

Instrument :

MSVOA_N

ClientSampleId :

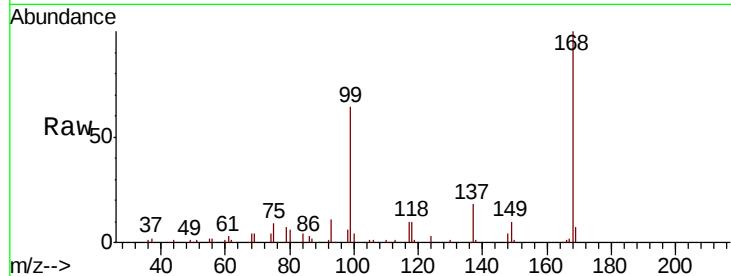
TR-04-070120

Tot Ion:168 Resp: 133059

Ion Ratio Lower Upper

168 100

99 64.1 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

50000

40000

30000

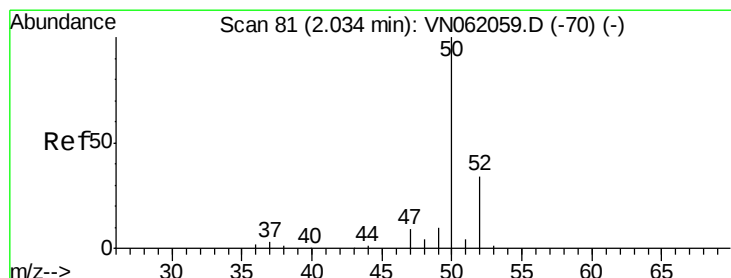
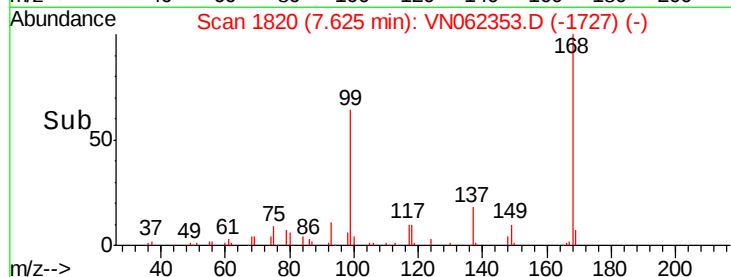
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062353.D

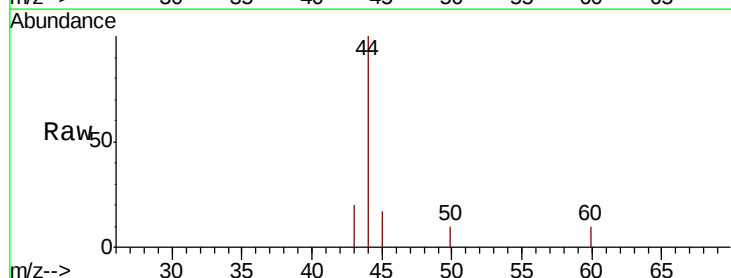
Acq: 2 Jul 2020 23:20

Tgt Ion: 50 Resp: 29

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

150

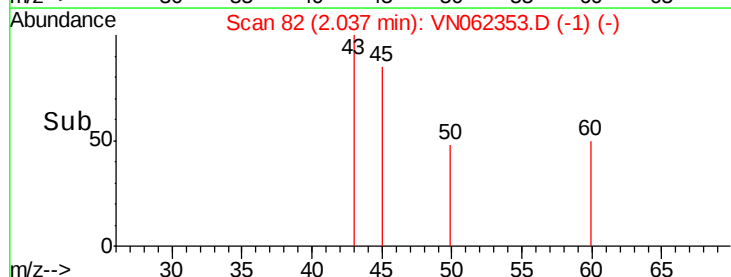
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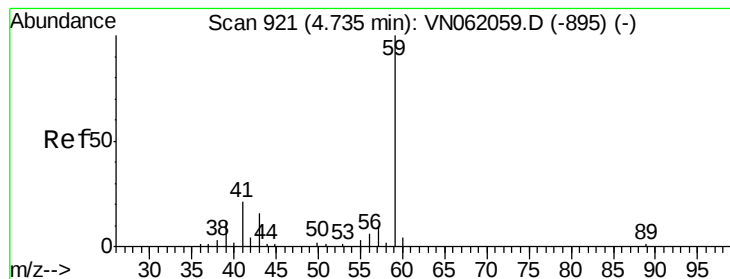
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0

2.02 2.03 2.04 2.04 2.04

Time-->



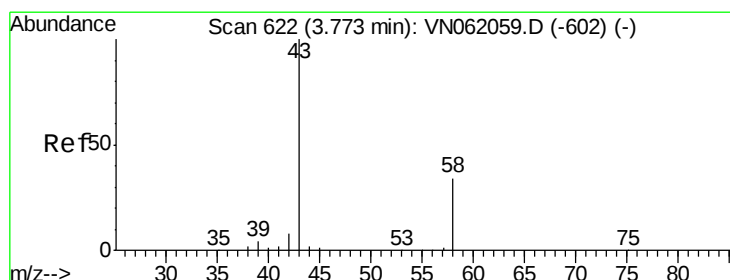
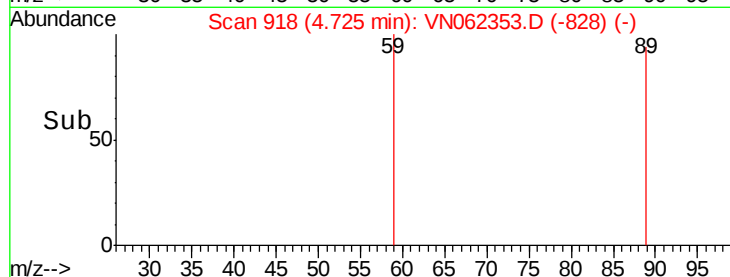
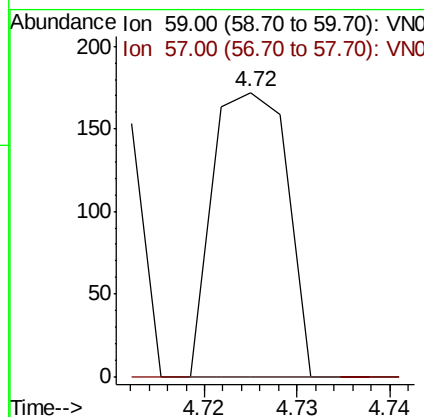
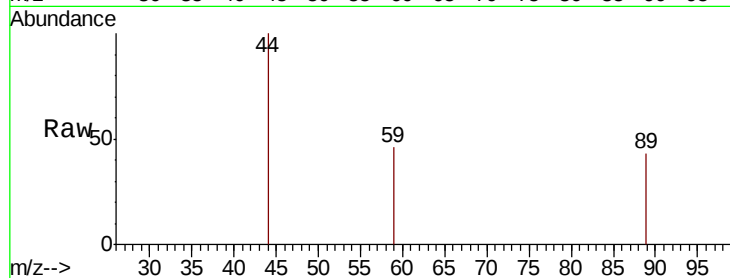


#11

Tert butyl alcohol
 Concen: 0.354 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-070120

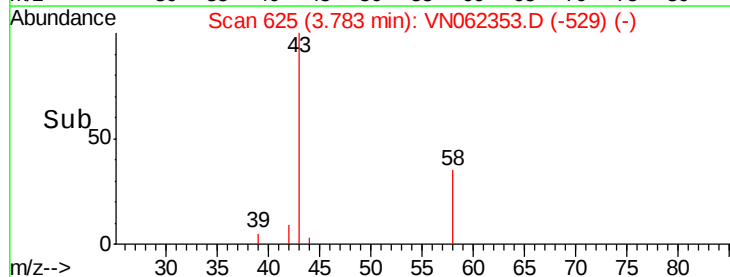
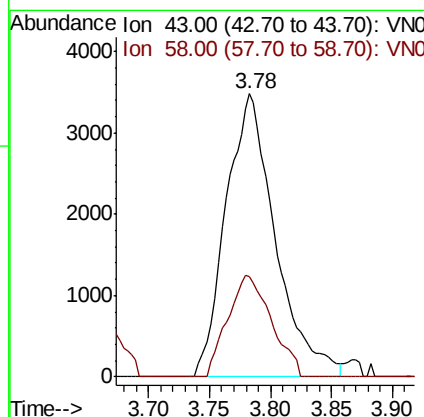
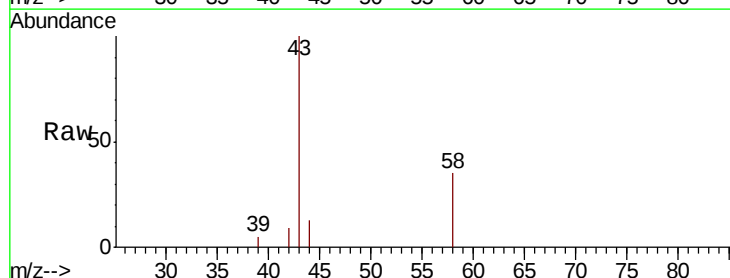
Tot Ion: 59 Resp: 95
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

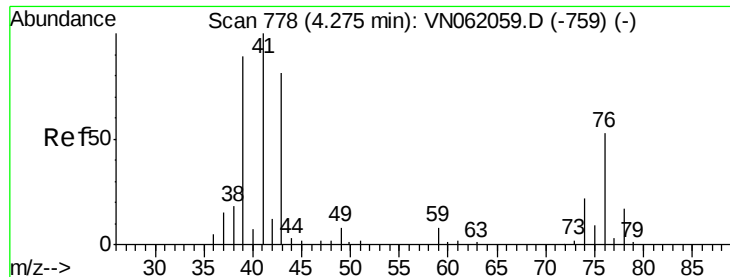


#16

Acetone
 Concen: 12.892 ug/l
 RT: 3.78 min Scan# 625
 Delta R.T. 0.01 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Tgt Ion: 43 Resp: 9808
 Ion Ratio Lower Upper
 43 100
 58 35.4 27.5 41.3

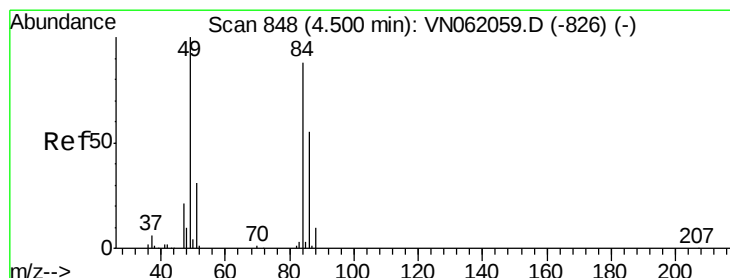
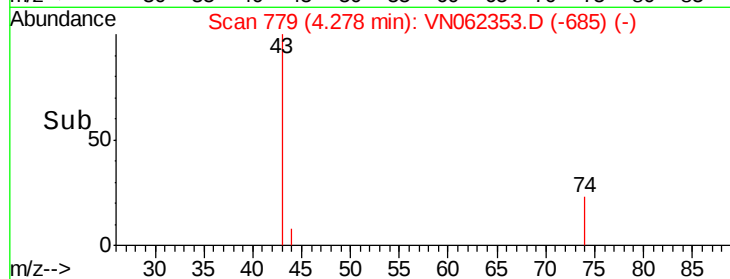
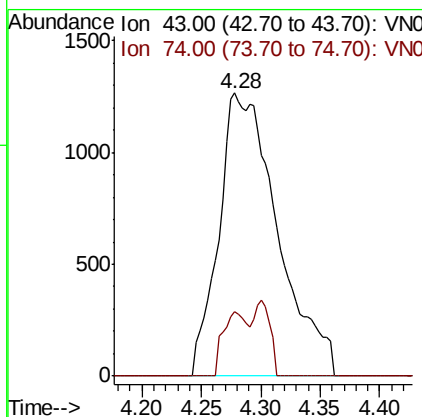
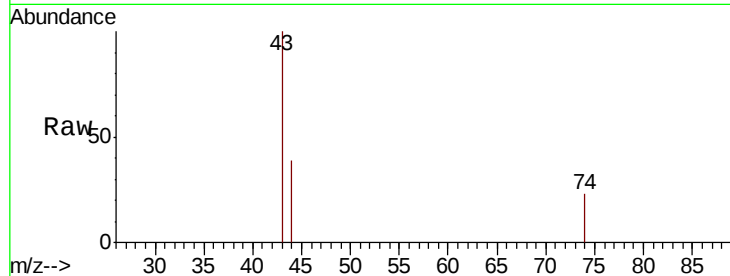




#18
Methyl Acetate
Concen: 2.920 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

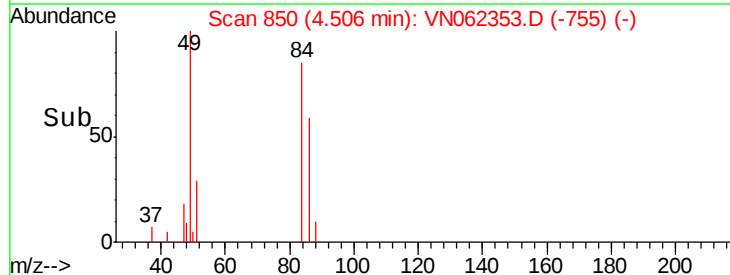
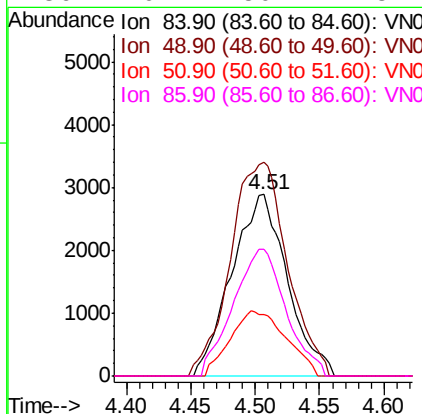
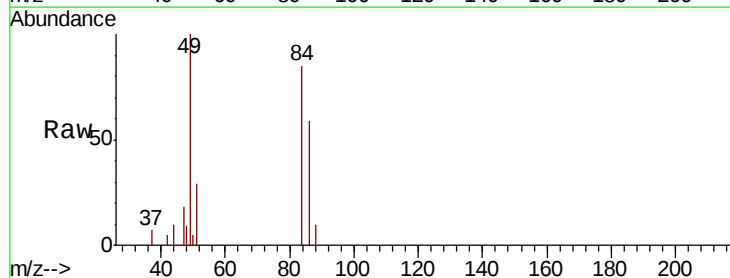
Instrument :
MSVOA_N
ClientSampled :
TR-04-070120

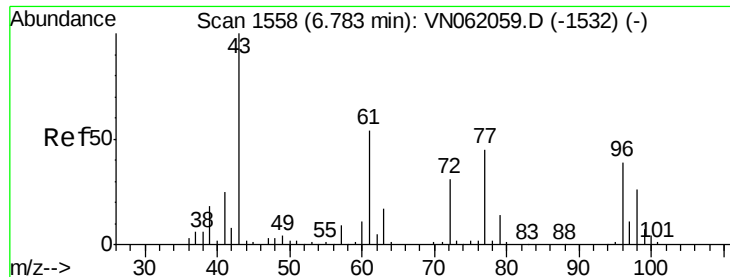
Tot Ion: 43 Resp: 4334
Ion Ratio Lower Upper
43 100
74 9.5 22.9 34.3#



#20
Methylene Chloride
Concen: 4.853 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Tgt Ion: 84 Resp: 8655
Ion Ratio Lower Upper
84 100
49 117.9 90.6 136.0
51 33.8 27.8 41.8
86 70.1 50.1 75.1





#25

2-Butanone

Concen: 1.033 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

Instrument :

MSVOA_N

ClientSampled :

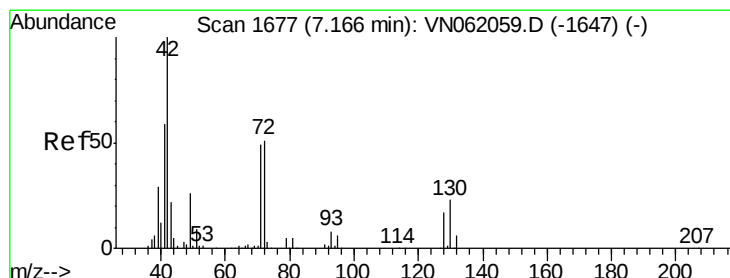
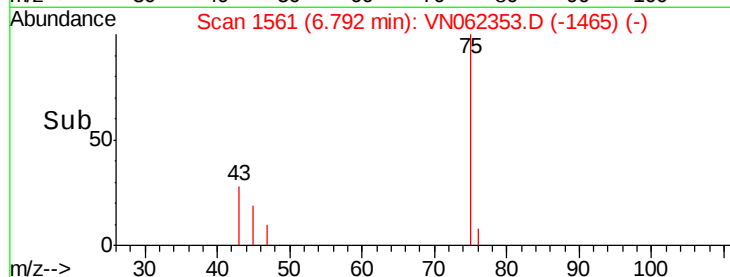
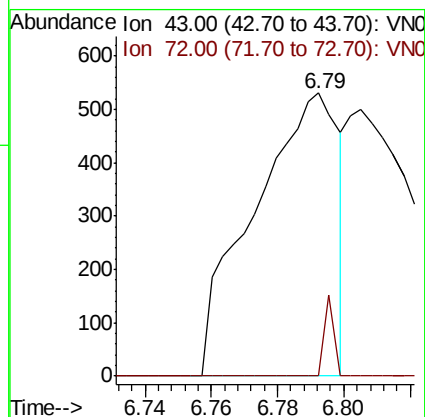
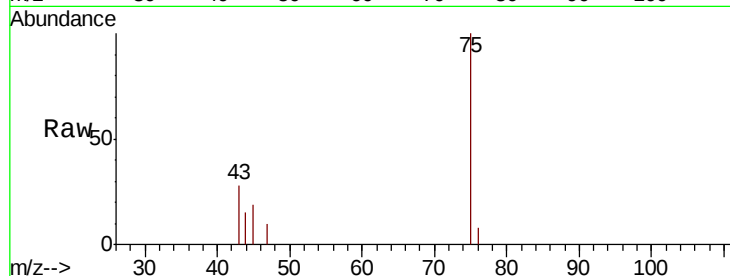
TR-04-070120

Tot Ion: 43 Resp: 943

Ion Ratio Lower Upper

43 100

72 0.0 24.8 37.2#



#29

Tetrahydrofuran

Concen: 0.545 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

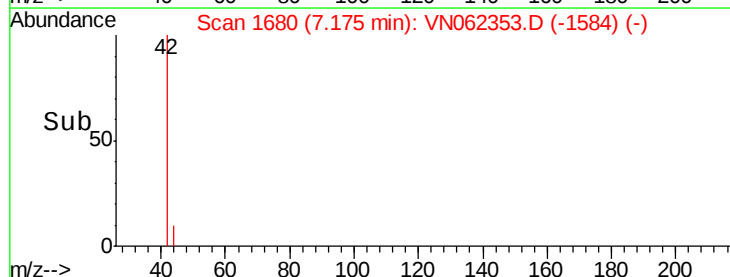
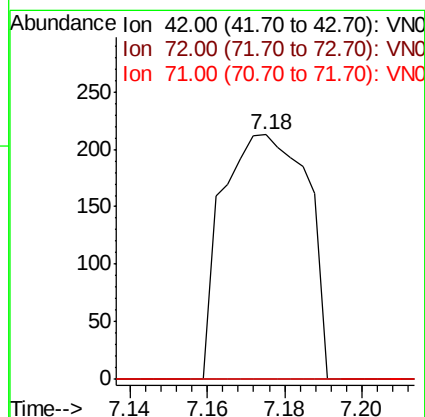
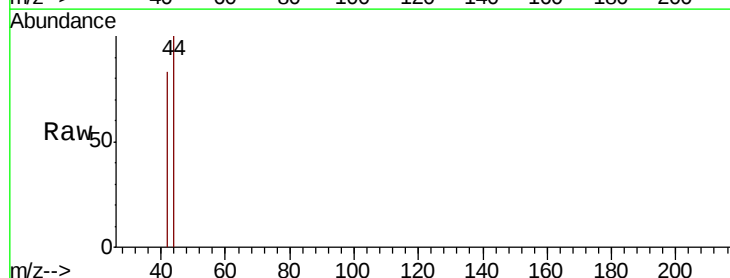
Tgt Ion: 42 Resp: 326

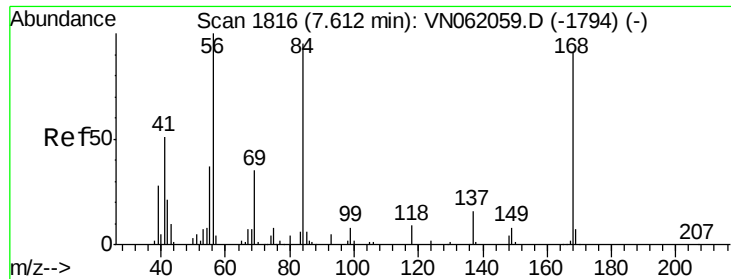
Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

71 0.0 38.2 57.4#

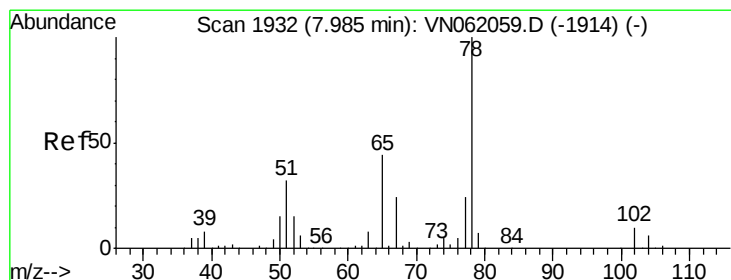
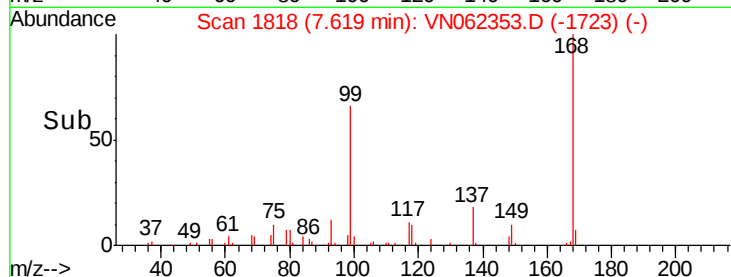
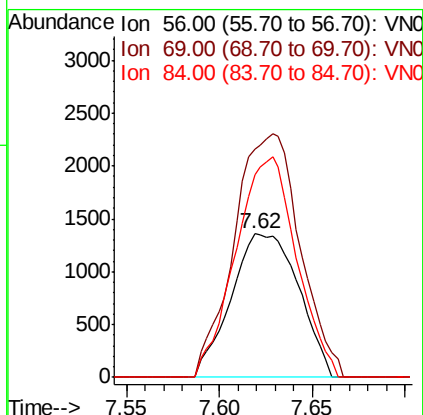
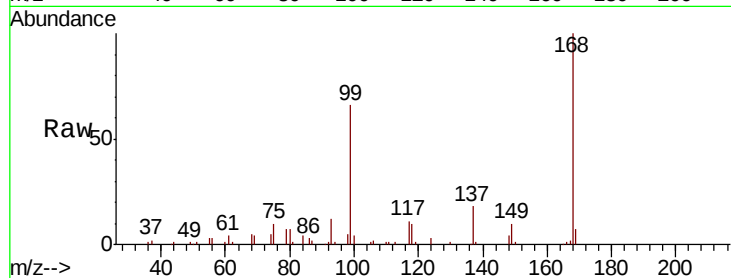




#31
Cyclohexane
Concen: 1.338 ug/l
RT: 7.62 min Scan# 1816
Delta R.T. 0.01 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

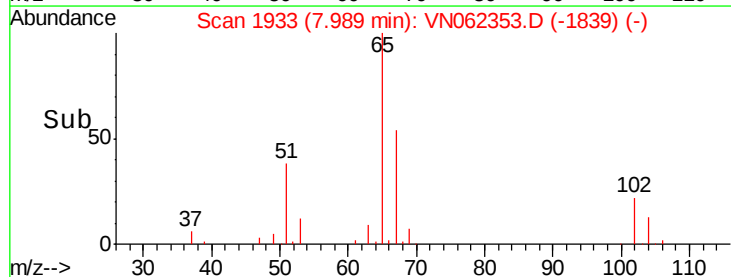
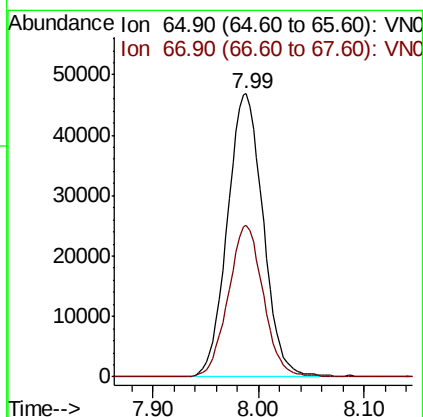
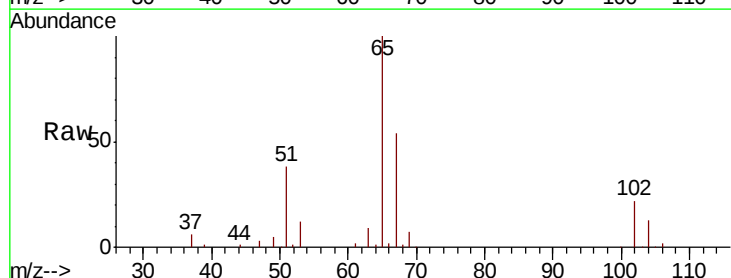
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TR-04-070120

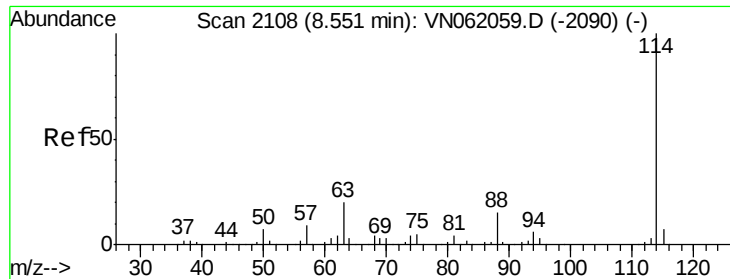
Tot Ion: 56 Resp: 3453
Ion Ratio Lower Upper
56 100
69 159.7 28.0 42.0#
84 141.4 76.1 114.1#



#33
1,2-Dichloroethane-d4
Concen: 58.886 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Tgt Ion: 65 Resp: 109955
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.2

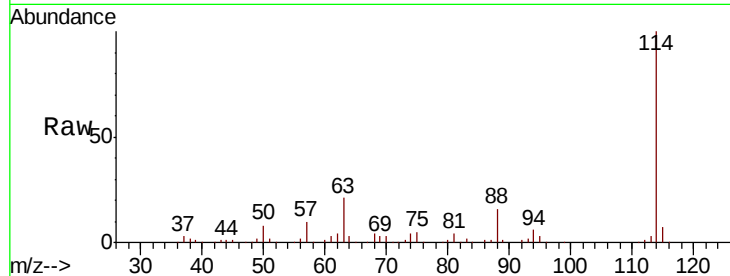




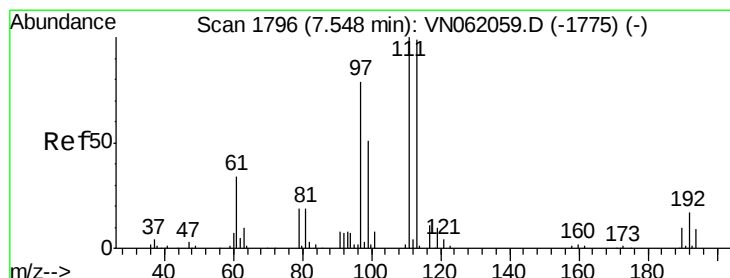
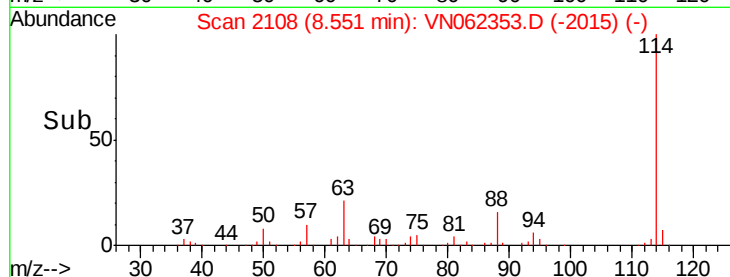
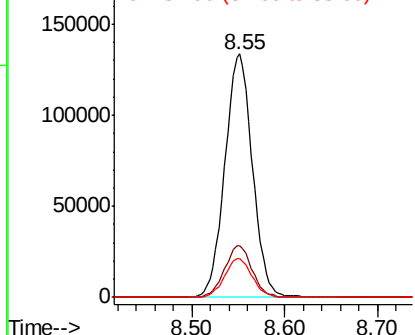
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-070120

Tot Ion:114 Resp: 275238
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 39.2
 88 15.8 0.0 30.8

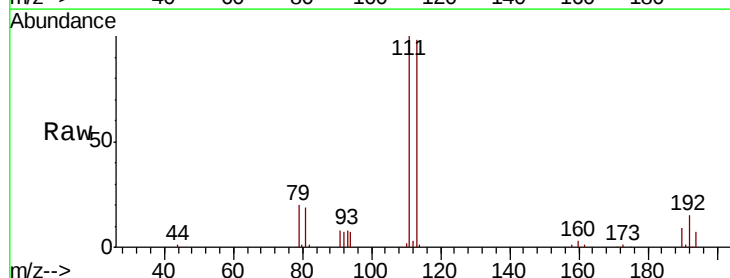


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

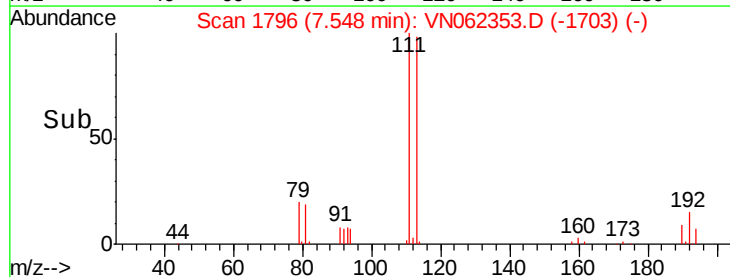
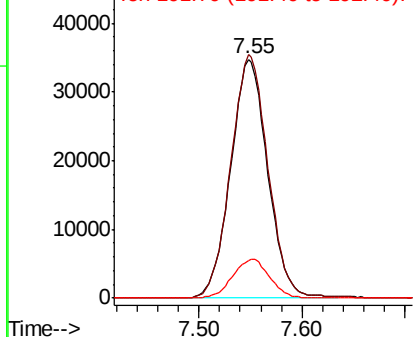


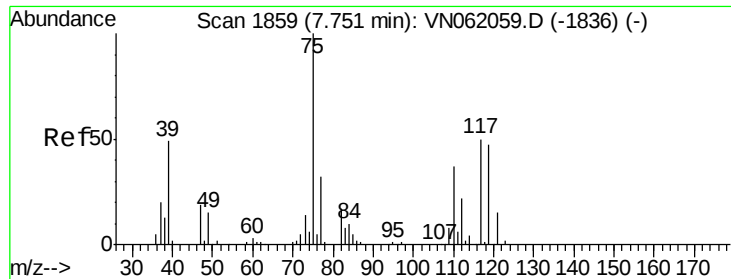
#35
 Dibromofluoromethane
 Concen: 49.255 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Tgt Ion:113 Resp: 86973
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.2 123.4
 192 16.1 14.0 21.0



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

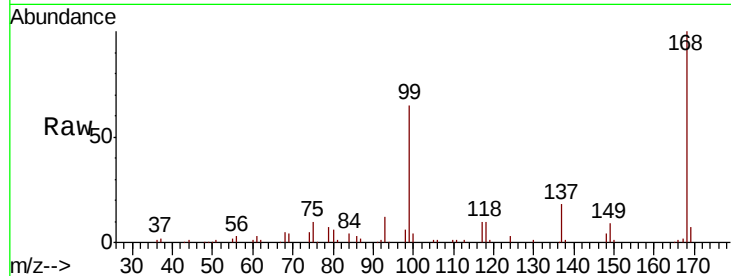




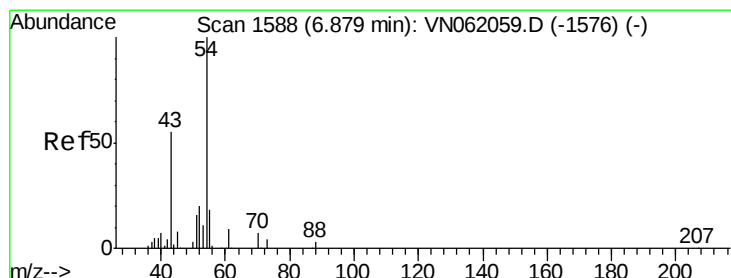
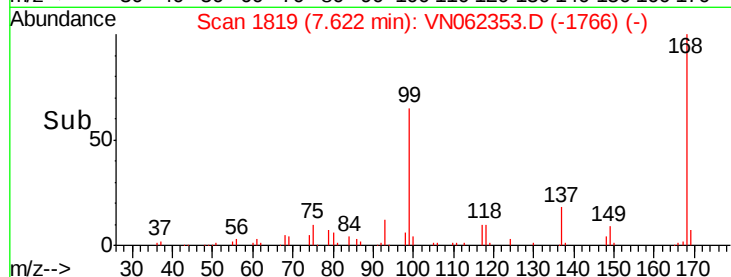
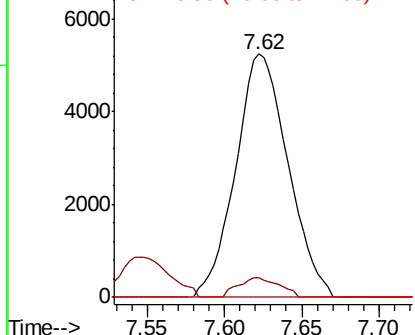
#36
 1,1-Dichloropropene
 Concen: 4.468 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Instrument :
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 ClientSampleId :
 TR-04-070120

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.2	17.9	53.8#
77	0.0	24.9	37.3#

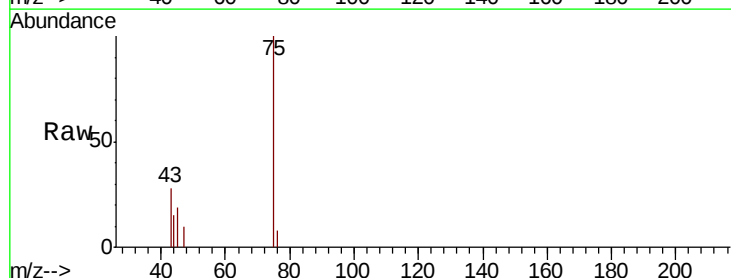


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

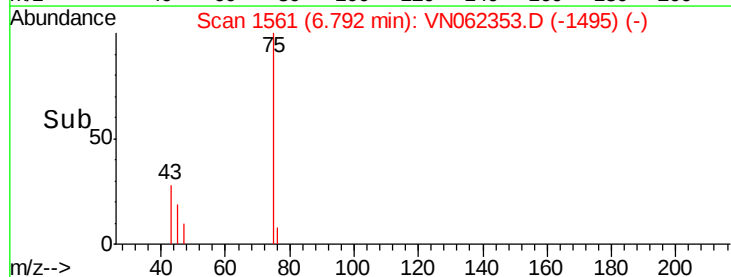
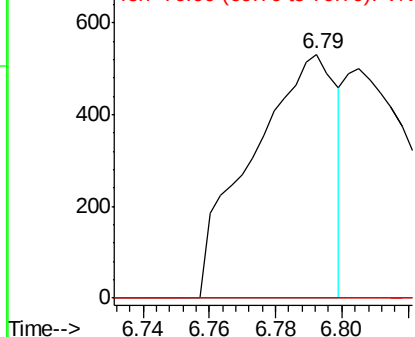


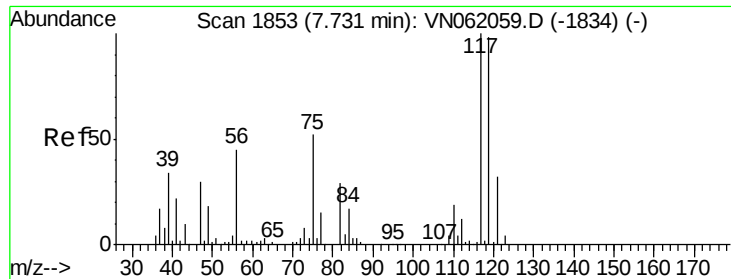
#37
 Ethyl Acetate
 Concen: 0.412 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.0	18.0#
70	0.0	9.6	14.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

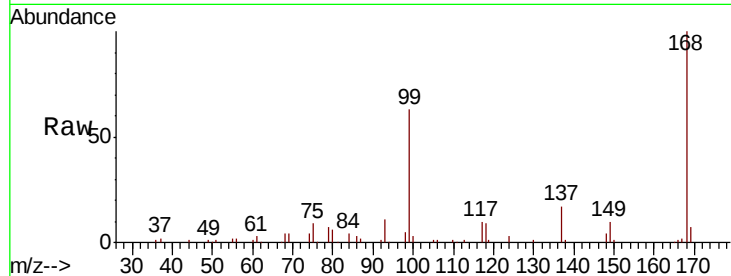




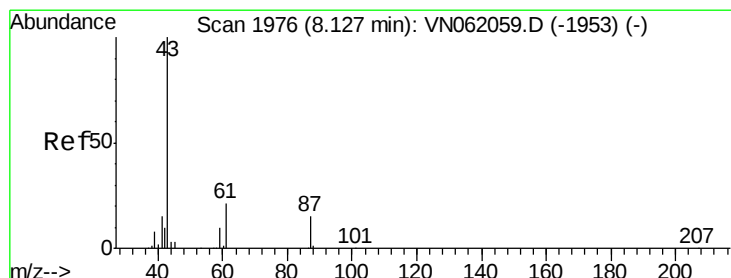
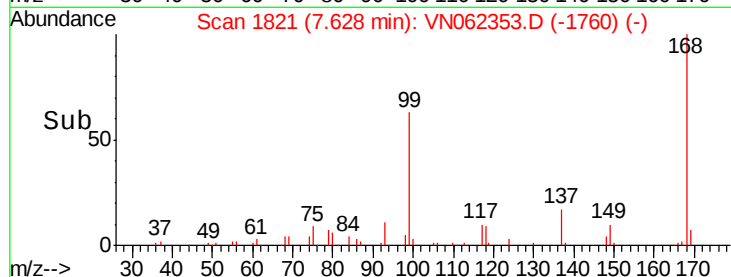
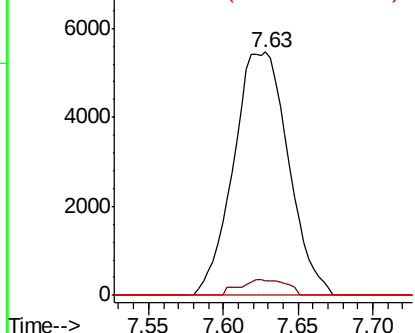
#38
Carbon Tetrachloride
Concen: 5.343 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Instrument :
MSVOA_N
ClientSampleId :
TR-04-070120

Tot Ion:117 Resp: 13936
Ion Ratio Lower Upper
117 100
119 6.1 78.2 117.2#
121 0.0 25.8 38.6#

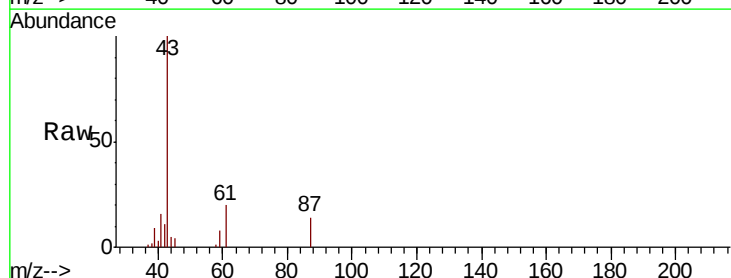


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

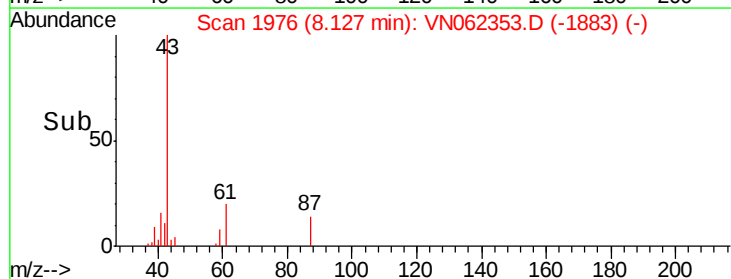
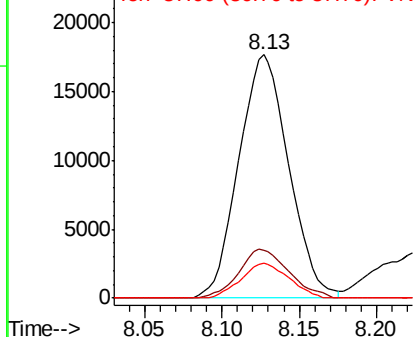


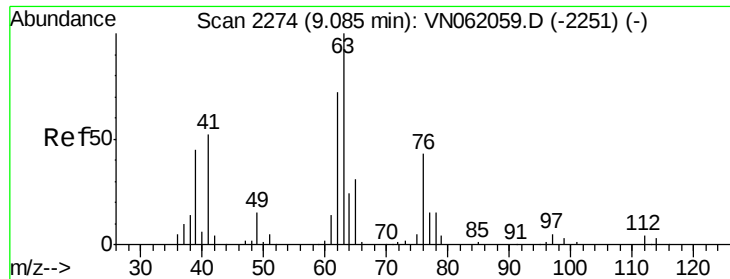
#43
Isopropyl Acetate
Concen: 10.621 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Tgt Ion: 43 Resp: 39662
Ion Ratio Lower Upper
43 100
61 20.2 17.2 25.8
87 13.7 12.1 18.1



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

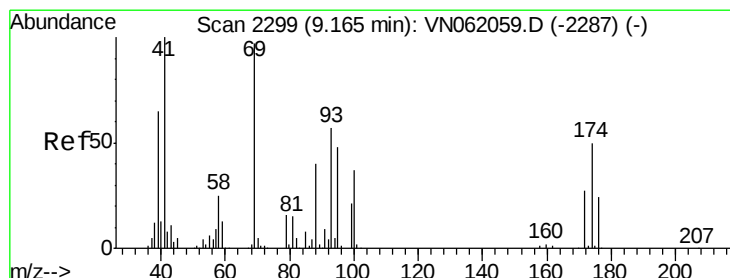
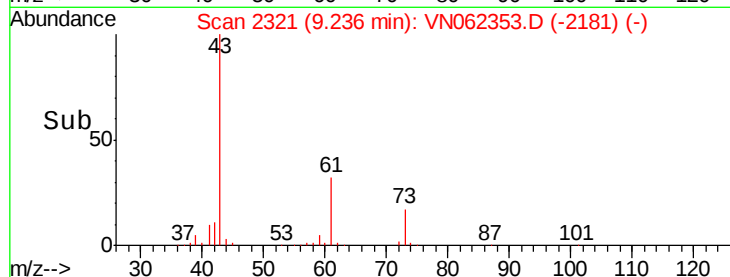
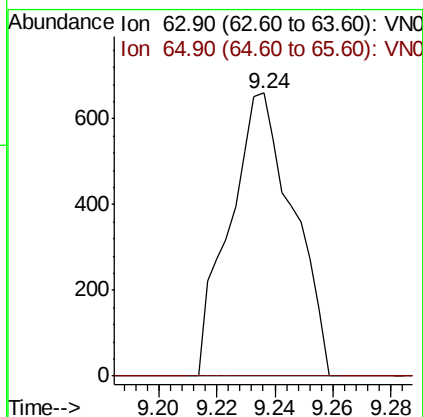
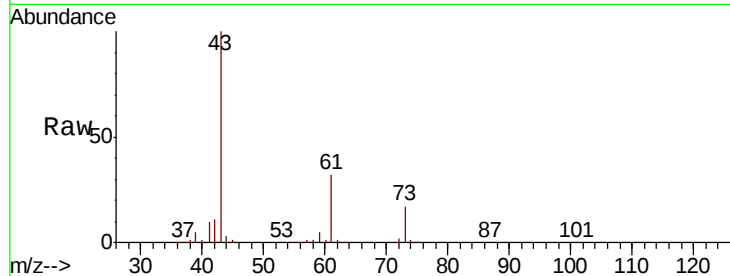




#45
 1,2-Dichloropropane
 Concen: 0.483 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

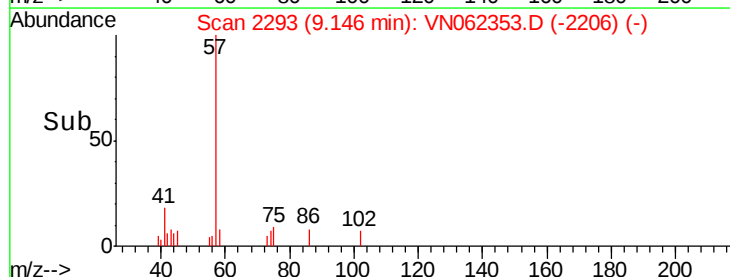
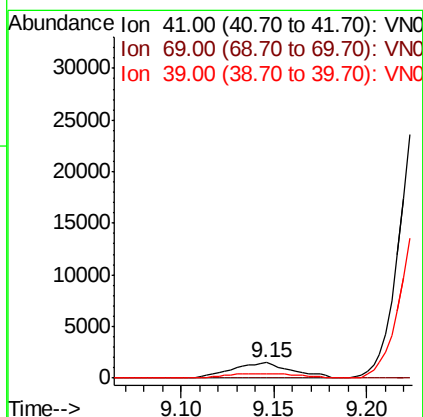
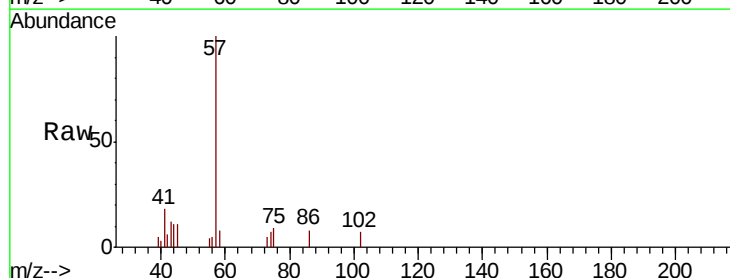
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-070120

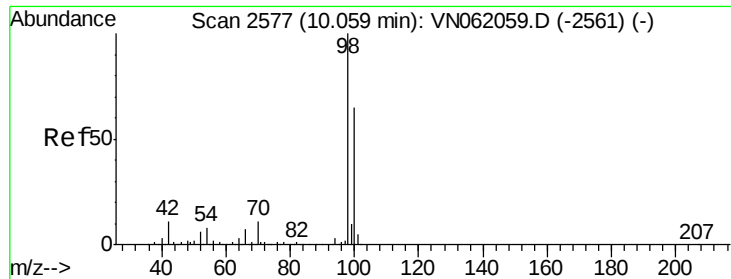
Tot Ion: 63 Resp: 1005
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.989 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Tgt Ion: 41 Resp: 3331
 Ion Ratio Lower Upper
 41 100
 69 0.0 80.7 121.1#
 39 0.0 54.5 81.7#





#50

Toluene-d8

Concen: 52.196 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

Instrument :

MSVOA_N

ClientSampleId :

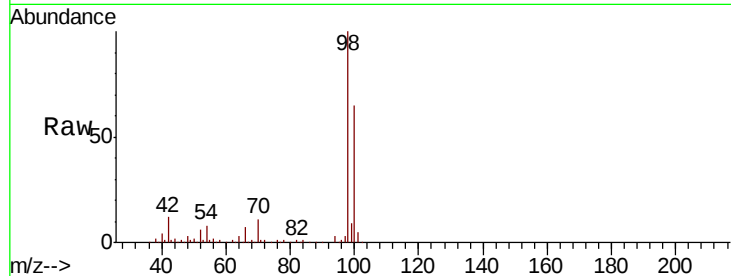
TR-04-070120

Tot Ion: 98 Resp: 368421

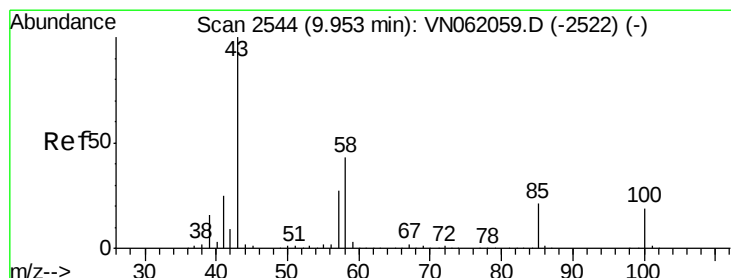
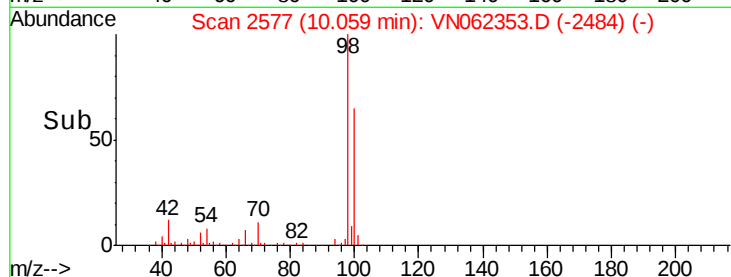
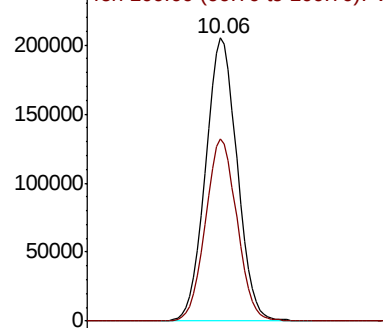
Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062059.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.057 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062353.D

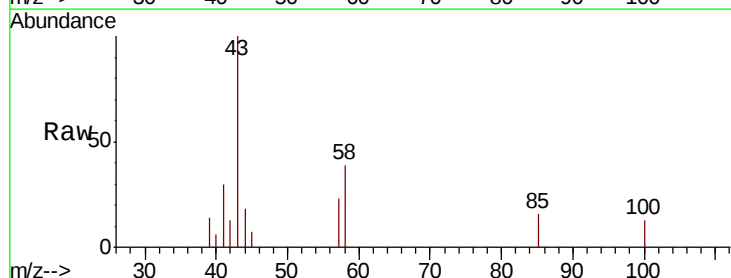
Acq: 2 Jul 2020 23:20

Tgt Ion: 43 Resp: 4488

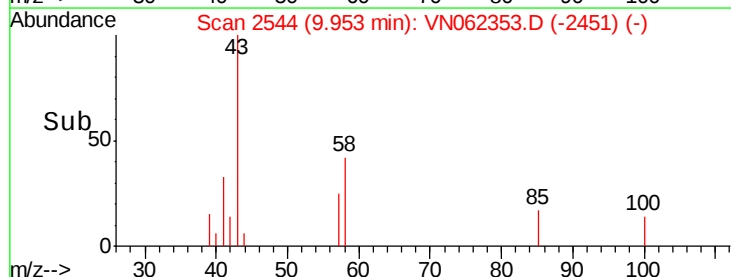
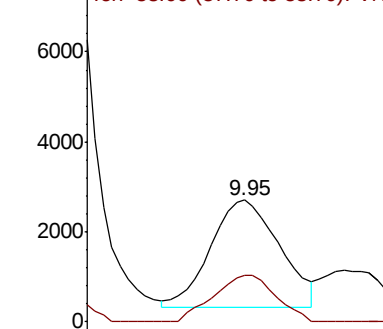
Ion Ratio Lower Upper

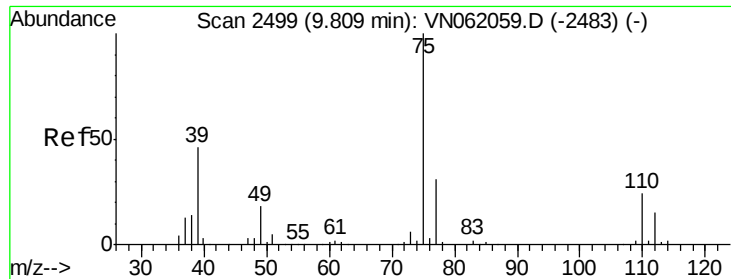
43 100

58 38.8 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

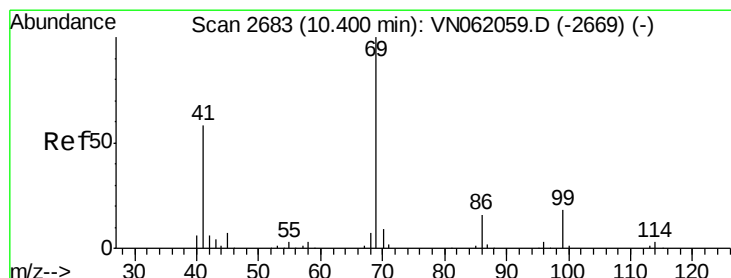
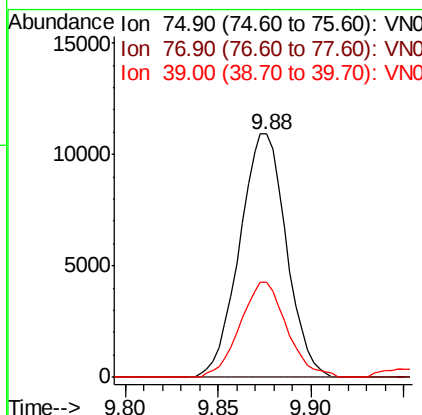
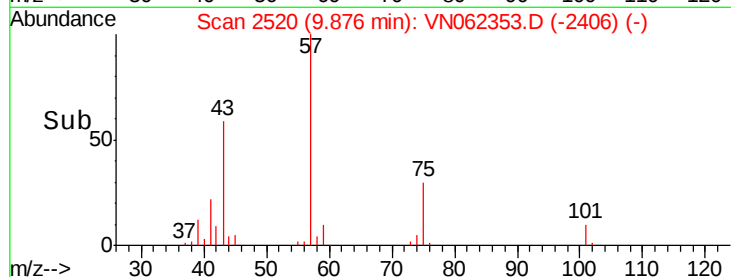
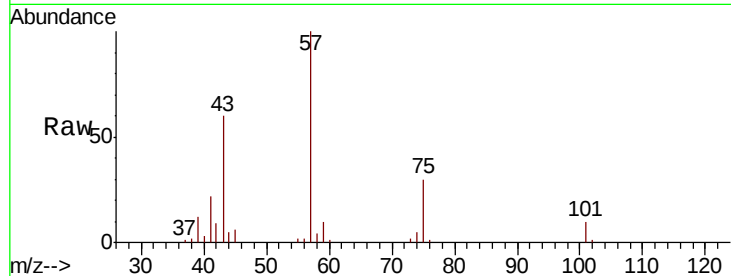




#54
 cis-1,3-Dichloropropene
 Concen: 5.750 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

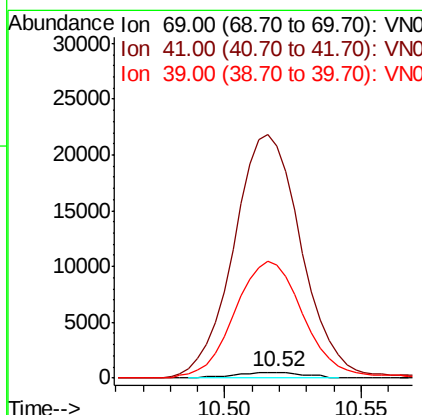
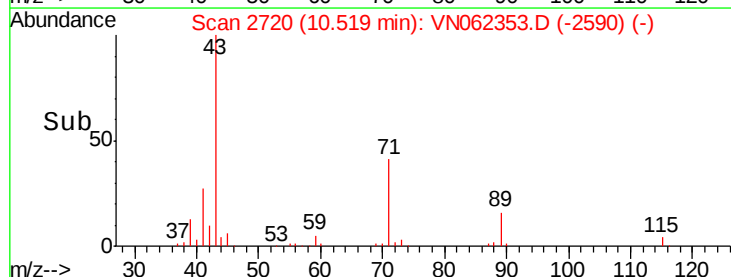
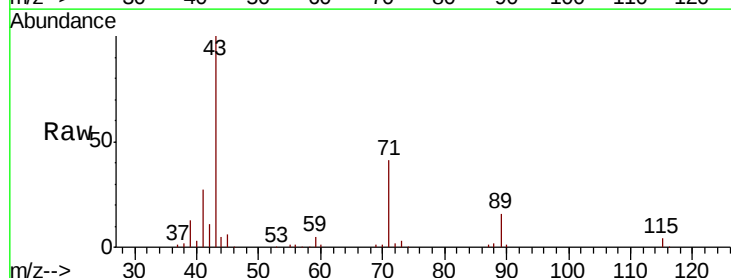
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-070120

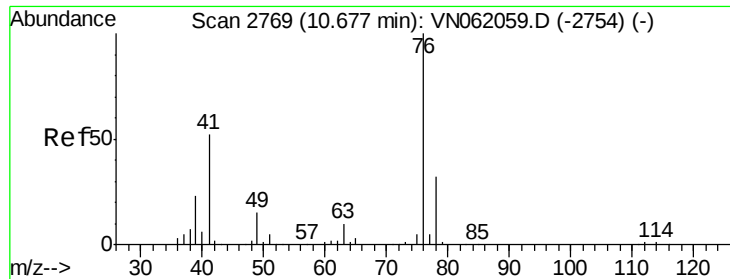
Tot Ion: 75 Resp: 19182
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 39.3 36.9 55.3



#56
 Ethyl methacrylate
 Concen: 0.335 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062353.D
 Acq: 2 Jul 2020 23:20

Tgt Ion: 69 Resp: 904
 Ion Ratio Lower Upper
 69 100
 41 4209.6 46.6 70.0#
 39 2039.7 31.0 46.4#





#57

1,3-Dichloropropane

Concen: 1.022 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

Instrument :

MSVOA_N

ClientSampled :

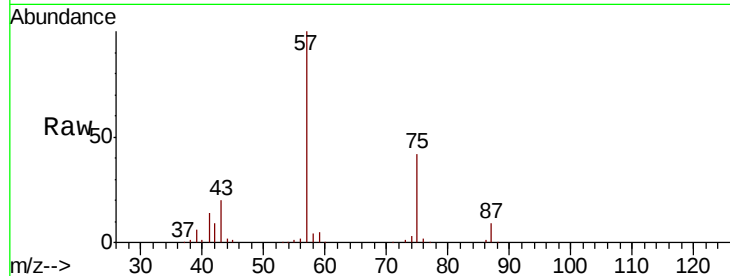
TR-04-070120

Tot Ion: 76 Resp: 3558

Ion Ratio Lower Upper

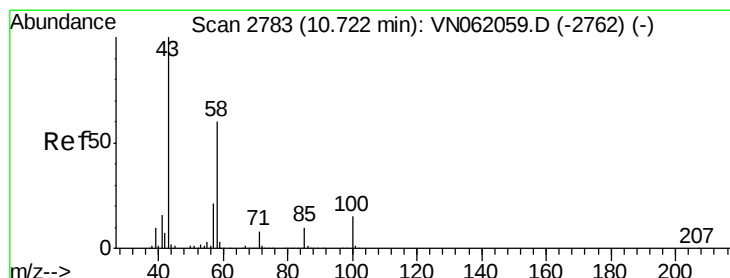
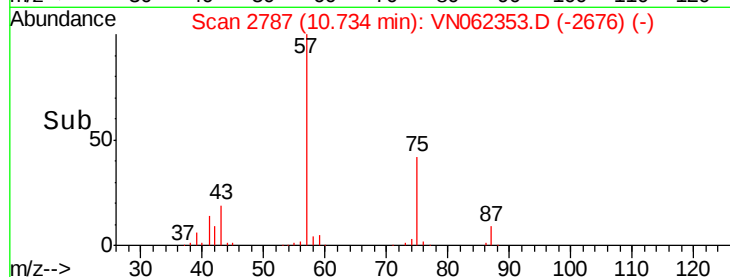
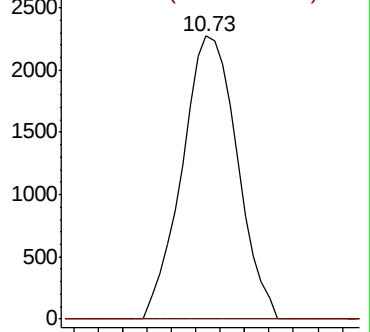
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 28.311 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062353.D

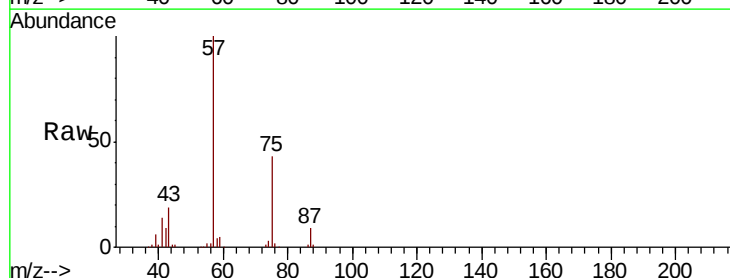
Acq: 2 Jul 2020 23:20

Tgt Ion: 43 Resp: 44605

Ion Ratio Lower Upper

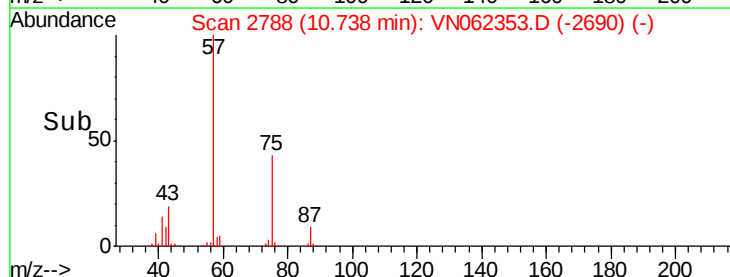
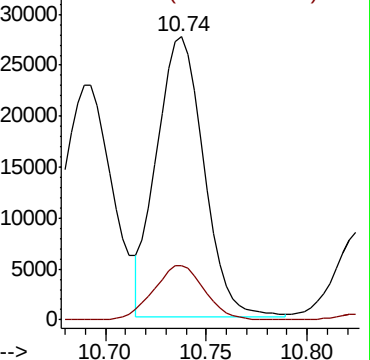
43 100

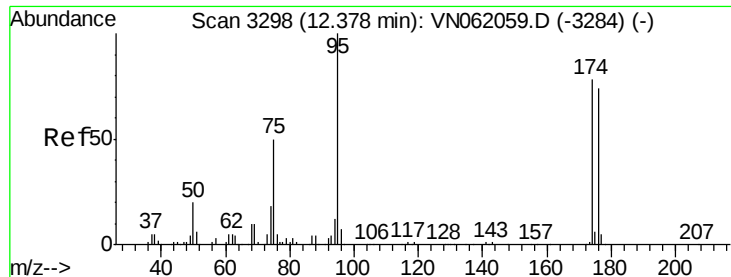
58 21.0 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

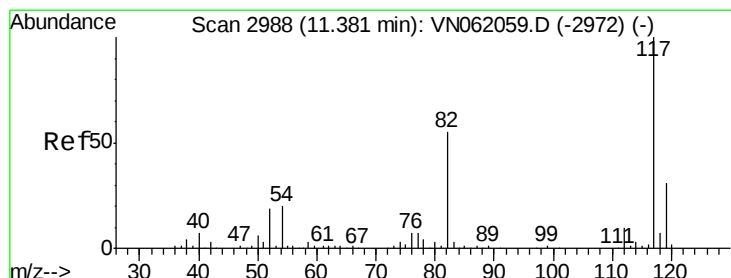
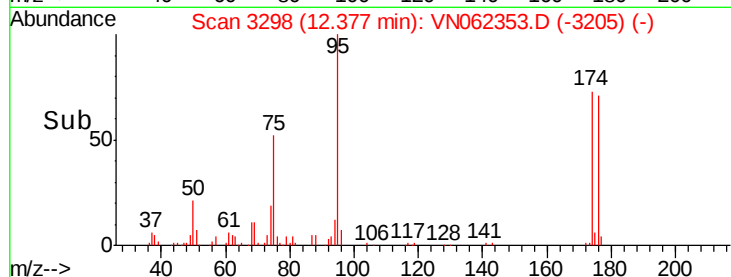
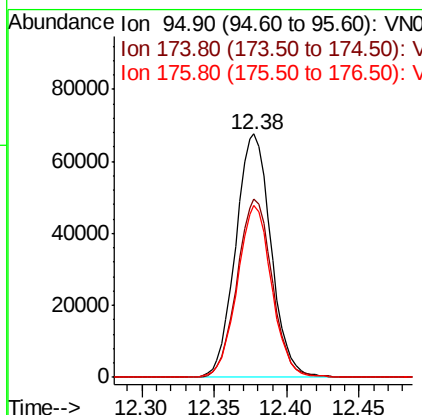
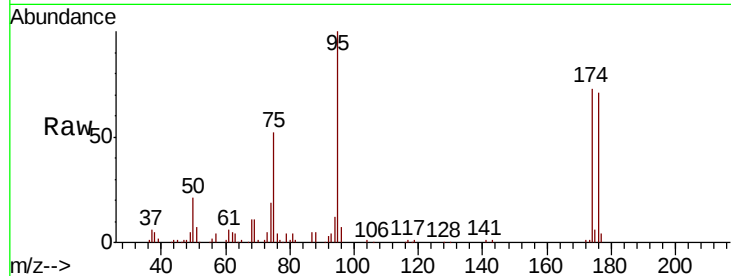




#62
4-Bromofluorobenzene
Concen: 48.218 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

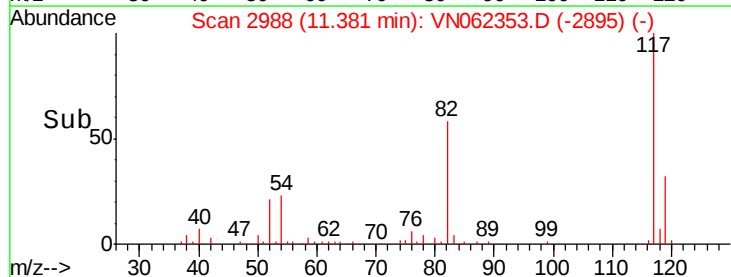
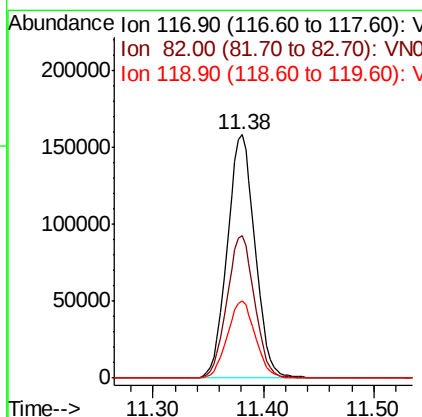
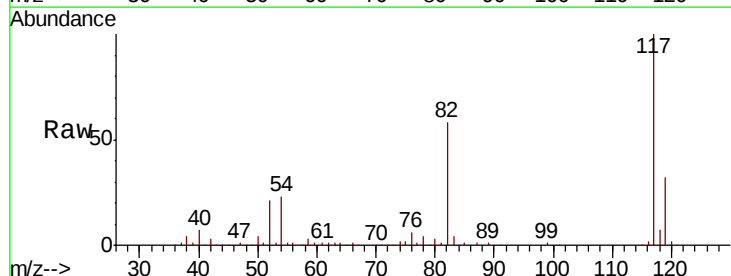
Instrument :
MSVOA_N
ClientSampleId :
TR-04-070120

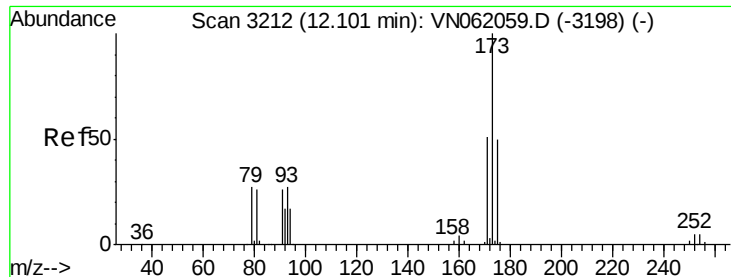
Tot Ion: 95 Resp: 114988
Ion Ratio Lower Upper
95 100
174 73.0 0.0 154.8
176 68.8 0.0 147.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Tgt Ion: 117 Resp: 276451
Ion Ratio Lower Upper
117 100
82 58.4 43.8 65.8
119 31.7 25.2 37.8

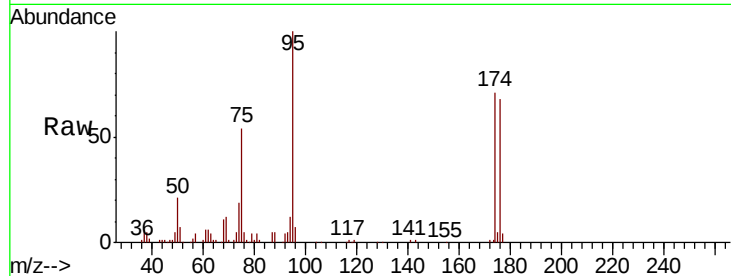




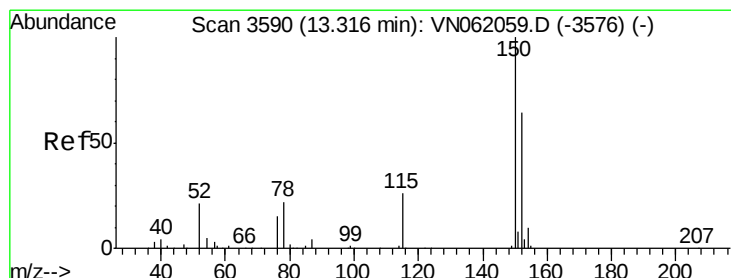
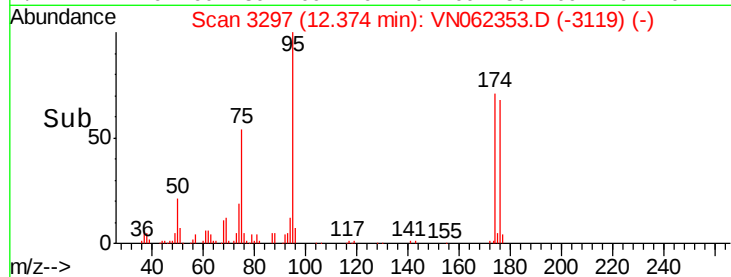
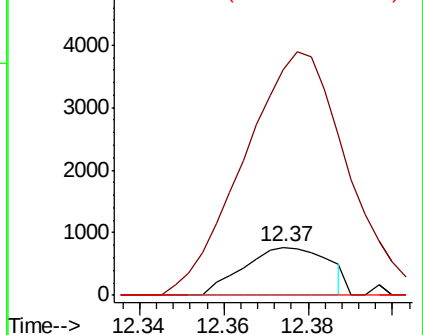
#71
Bromoform
Concen: 0.716 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Instrument :
MSVOA_N
ClientSampleId :
TR-04-070120

Tot Ion:173 Resp: 1068
Ion Ratio Lower Upper
173 100
175 528.5 24.7 74.1#
254 0.0 0.0 0.0

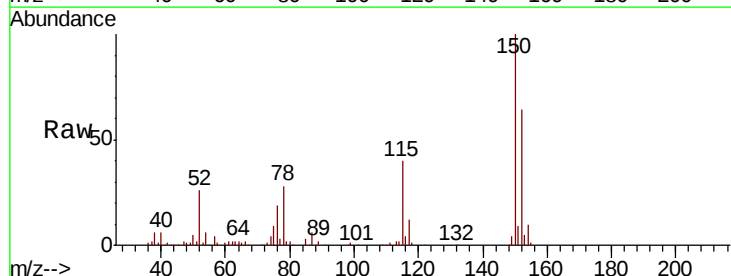


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

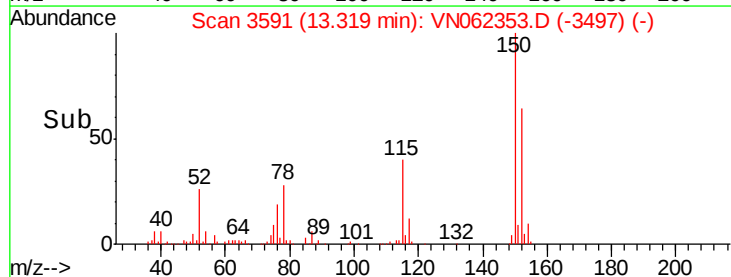
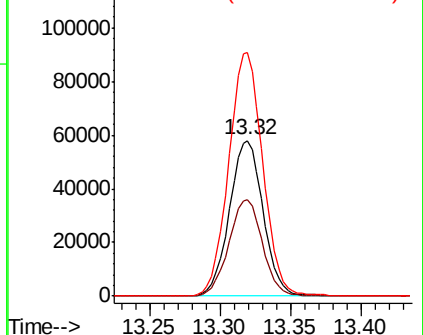


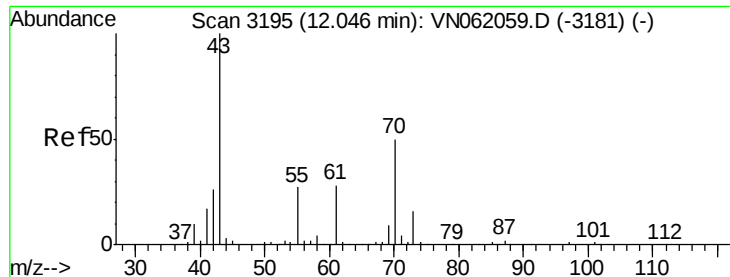
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062353.D
Acq: 2 Jul 2020 23:20

Tgt Ion:152 Resp: 97220
Ion Ratio Lower Upper
152 100
115 62.0 29.5 88.5
150 157.7 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 4.023 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

Instrument :

MSVOA_N

ClientSampleId :

TR-04-070120

Tot Ion: 43 Resp: 2017

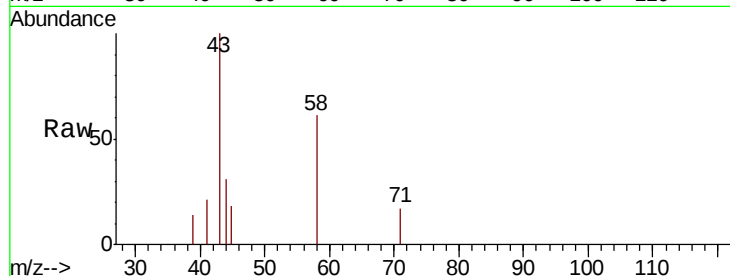
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

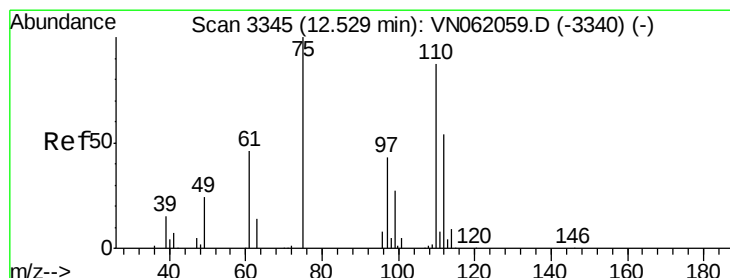
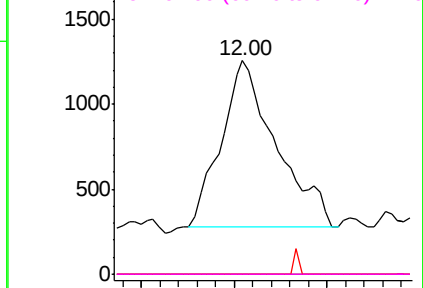
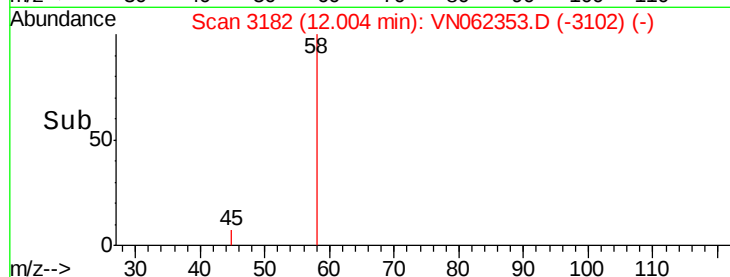


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 26.473 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN062353.D

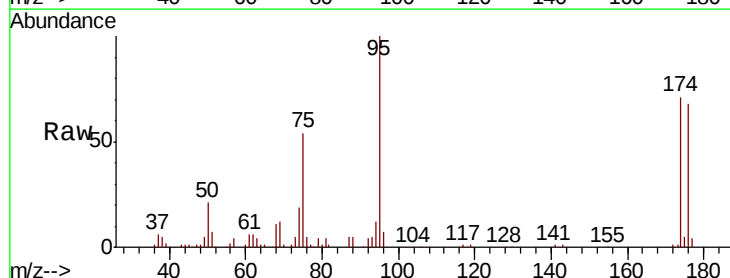
Acq: 2 Jul 2020 23:20

Tgt Ion: 75 Resp: 60586

Ion Ratio Lower Upper

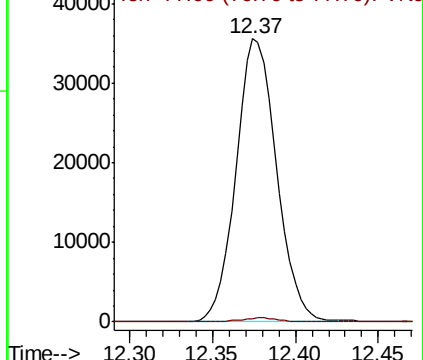
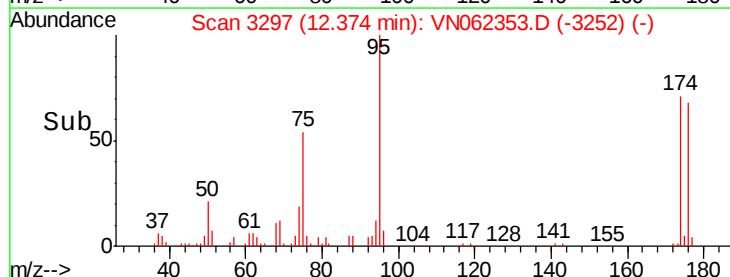
75 100

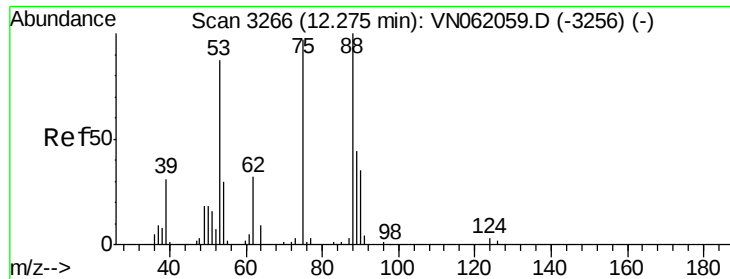
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 77.310 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

Instrument :

MSVOA_N

ClientSampleId :

TR-04-070120

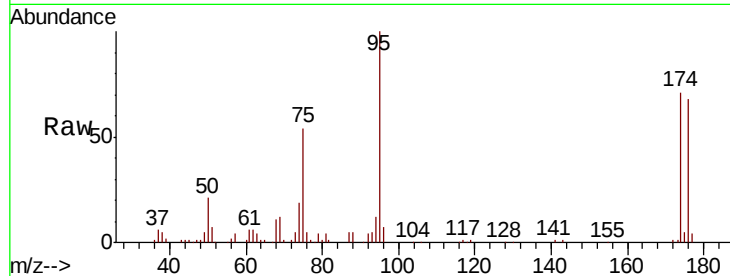
Tot Ion: 75 Resp: 60586

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

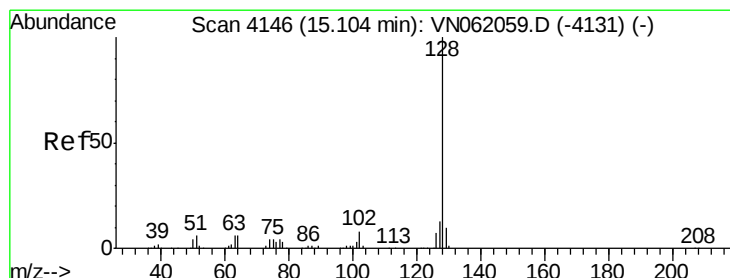
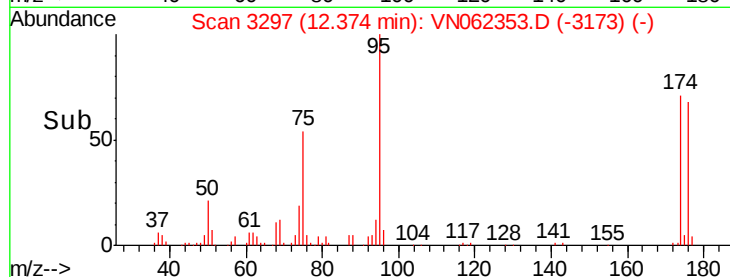
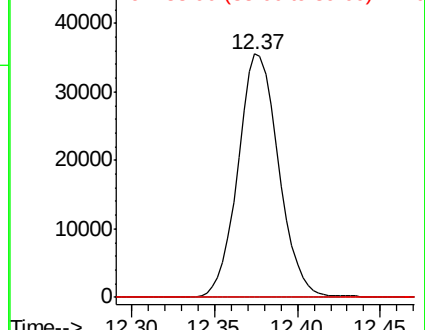
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062059.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062059.D (-3256) (-)



#95

Naphthalene

Concen: 4.129 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062353.D

Acq: 2 Jul 2020 23:20

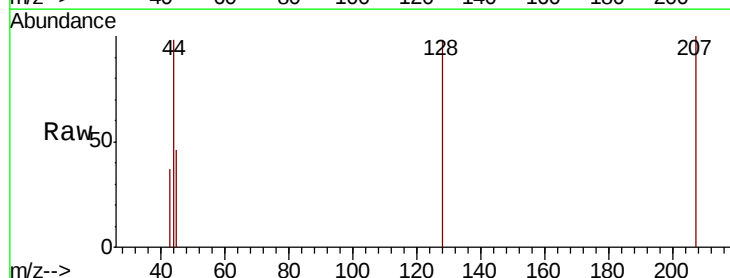
Tgt Ion: 128 Resp: 674

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN062059.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN062059.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN062059.D (-4131) (-)

