

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073020\
 Data File : VN062667.D
 Acq On : 30 Jul 2020 13:28
 Operator : JC/MD
 Sample : L3180-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-072920

Quant Time: Jul 31 04:08:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	132878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	236680	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	239535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	89289	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	113180	54.83	ug/l	0.00
Spiked Amount			Recovery	=	109.66%	
35) Dibromofluoromethane	7.55	113	81046	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
50) Toluene-d8	10.06	98	315558	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.38	95	114963	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	

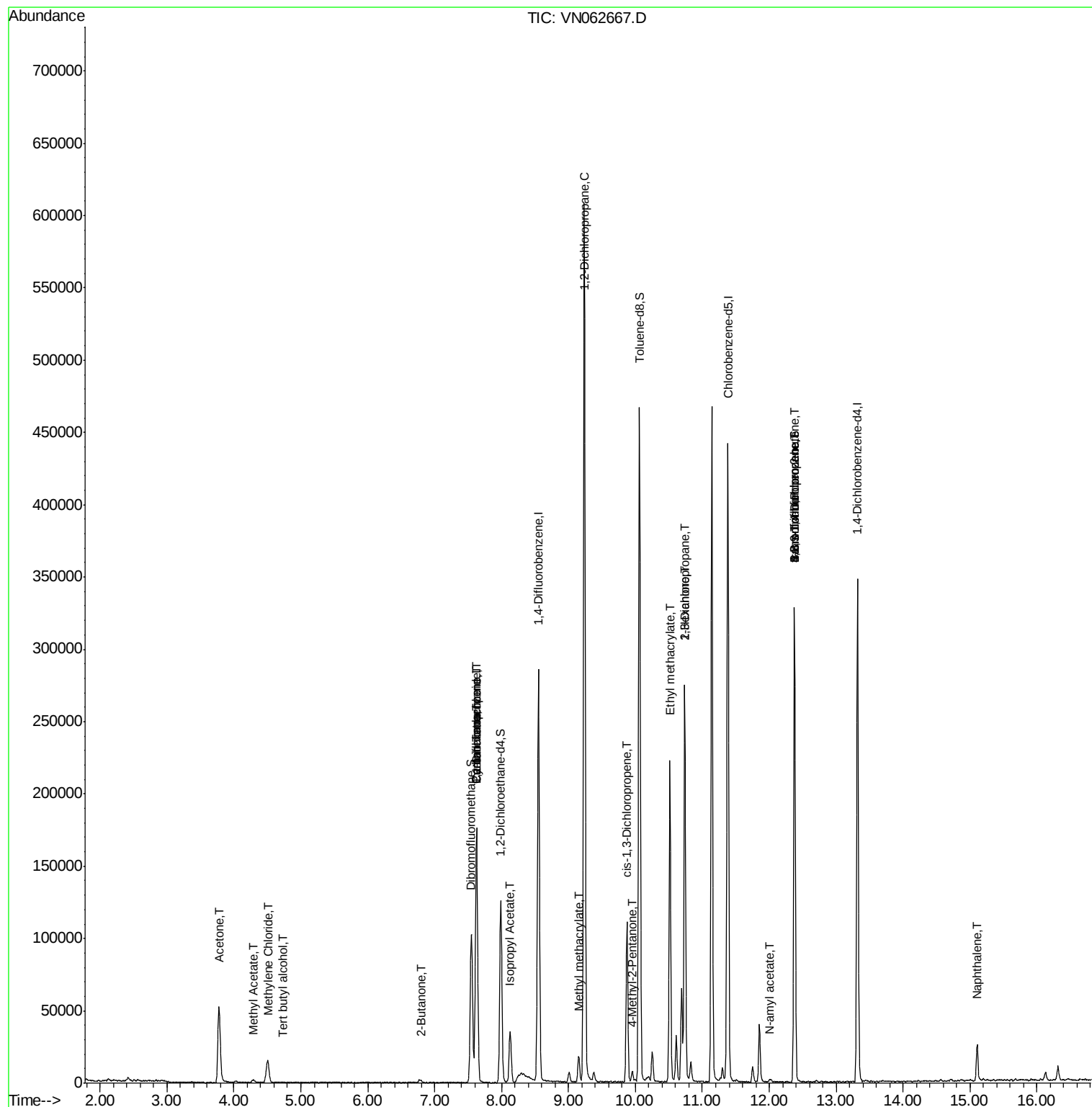
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	93	0.283	ug/l #	73
16) Acetone	3.78	43	89697	115.474	ug/l	97
18) Methyl Acetate	4.29	43	4238	2.155	ug/l #	78
20) Methylene Chloride	4.51	84	10959	5.882	ug/l	95
25) 2-Butanone	6.81	43	1550	1.310	ug/l #	52
31) Cyclohexane	7.63	56	3524	1.159	ug/l #	9
36) 1,1-Dichloropropene	7.62	75	11380	4.511	ug/l #	51
38) Carbon Tetrachloride	7.63	117	13729	5.662	ug/l #	17
43) Isopropyl Acetate	8.13	43	42873	9.780	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	721	0.336	ug/l #	44
48) Methyl methacrylate	9.15	41	2432	1.167	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	4244	1.618	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	18489	5.764	ug/l #	66
56) Ethyl methacrylate	10.52	69	1162	2.132	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2637	0.837	ug/l #	42
59) 2-Hexanone	10.74	43	40014	22.451	ug/l #	54
71) Bromoform	12.38	173	498	0.351	ug/l #	1
74) N-amyl acetate	12.01	43	1562	0.495	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	62992	27.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	62992	77.156	ug/l #	12
95) Naphthalene	15.11	128	21621	8.797	ug/l	98

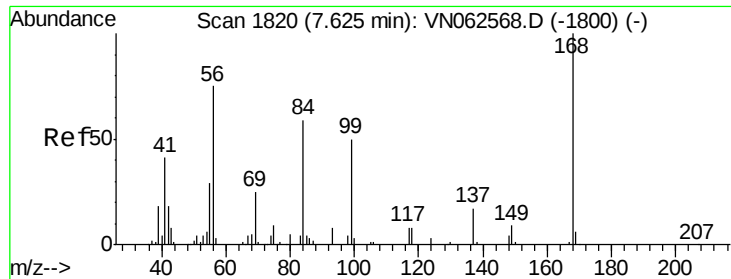
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 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: VN062667.D

Acq: 30 Jul 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

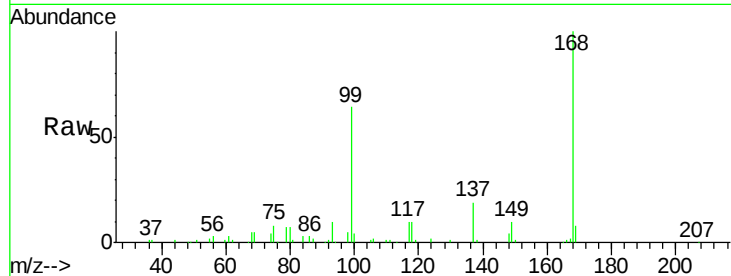
HD-02-072920

Tot Ion:168 Resp: 132878

Ion Ratio Lower Upper

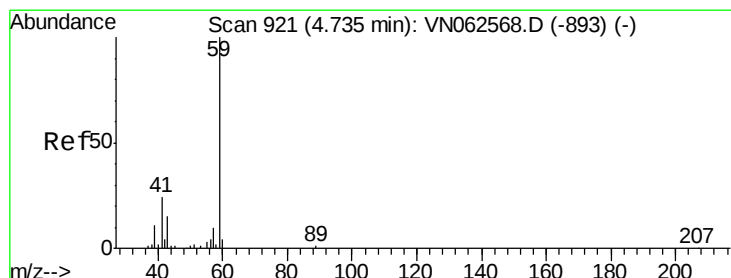
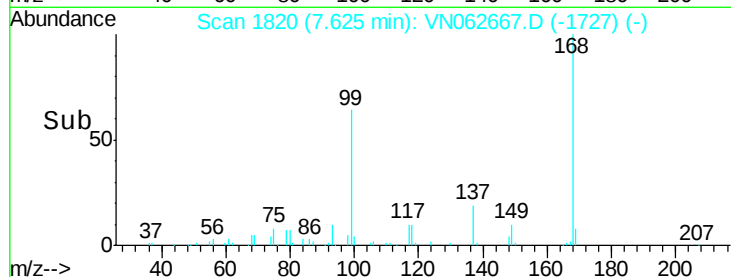
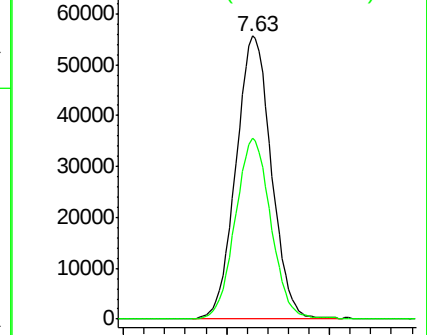
168 100

99 63.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.283 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN062667.D

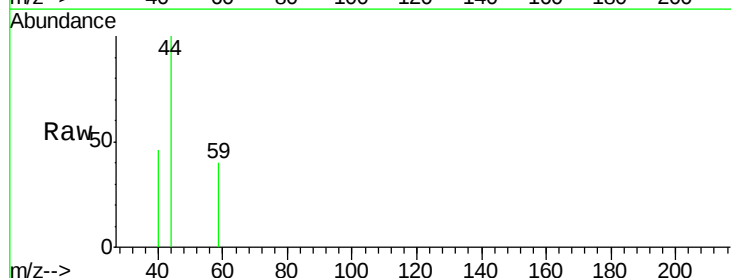
Acq: 30 Jul 2020 13:28

Tgt Ion: 59 Resp: 93

Ion Ratio Lower Upper

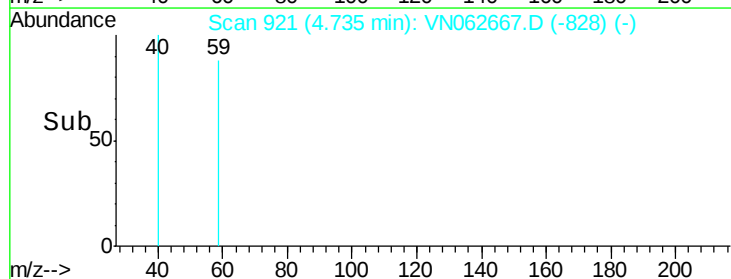
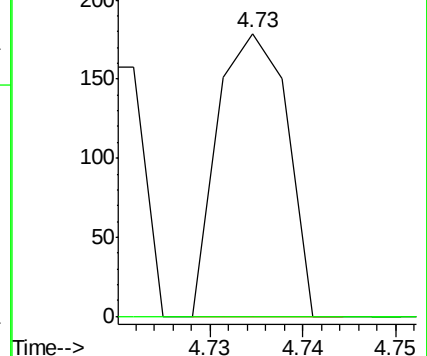
59 100

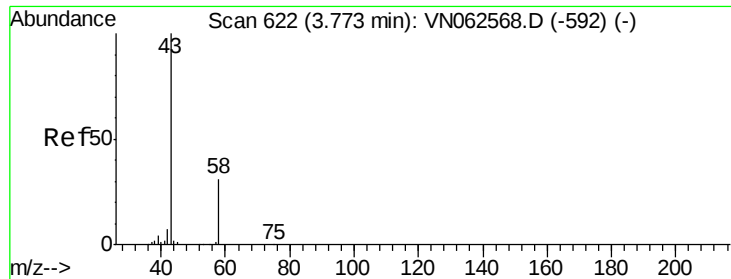
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

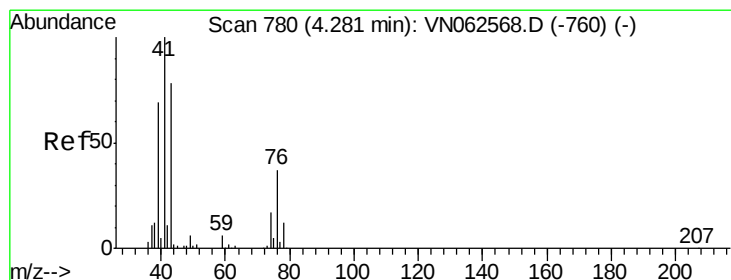
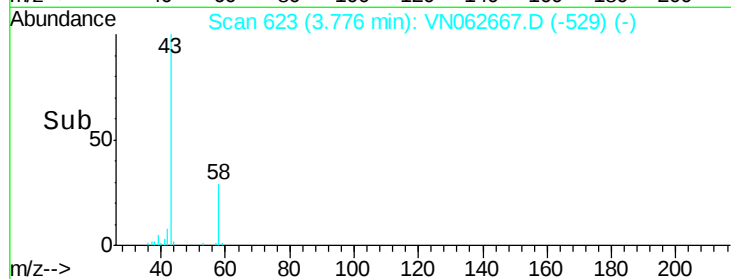
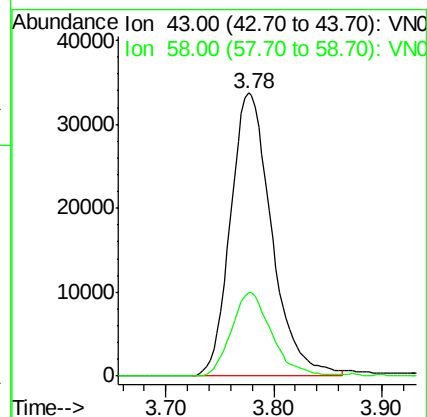
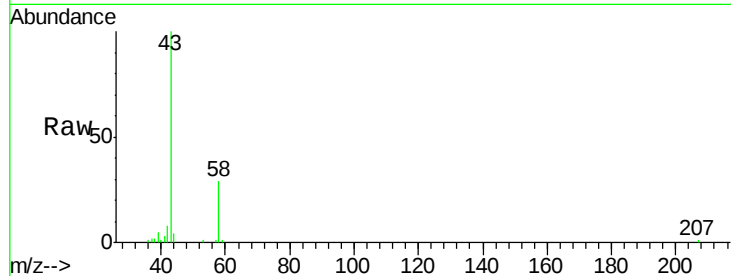




#16
Acetone
Concen: 115.474 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

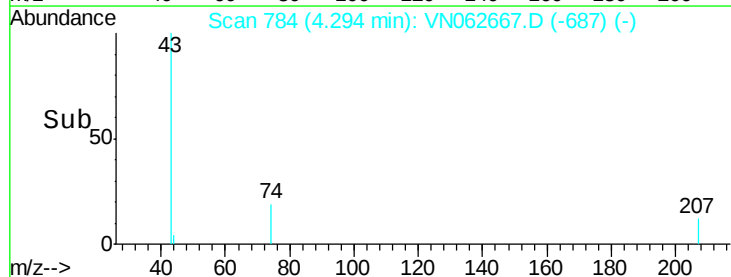
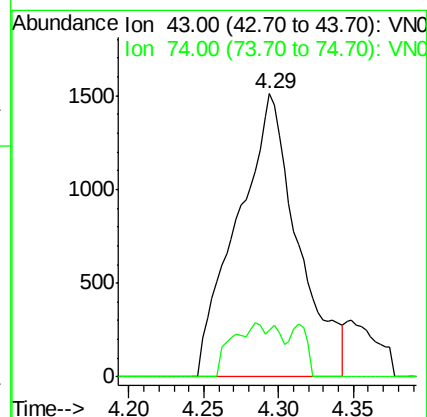
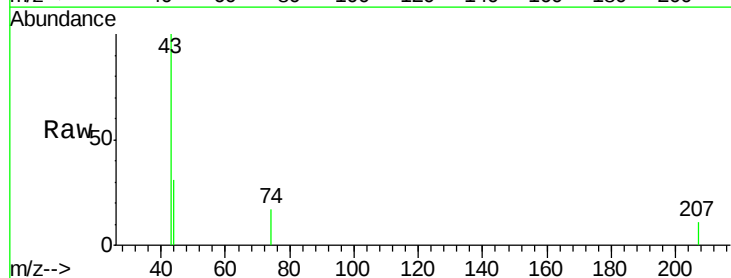
Instrument :
MSVOA_N
ClientSampleId :
HD-02-072920

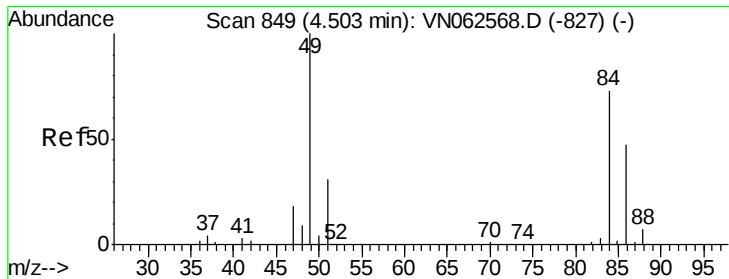
Tot Ion: 43 Resp: 89697
Ion Ratio Lower Upper
43 100
58 29.4 24.6 37.0



#18
Methyl Acetate
Concen: 2.155 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Tgt Ion: 43 Resp: 4238
Ion Ratio Lower Upper
43 100
74 10.3 16.6 24.8#

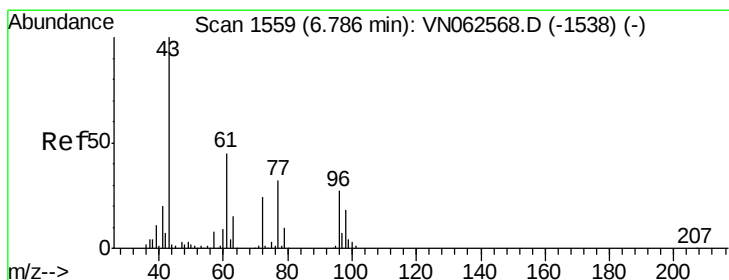
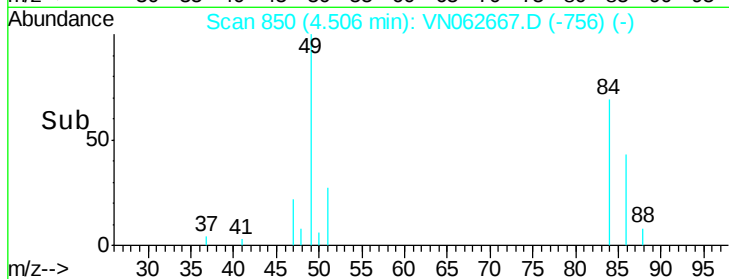
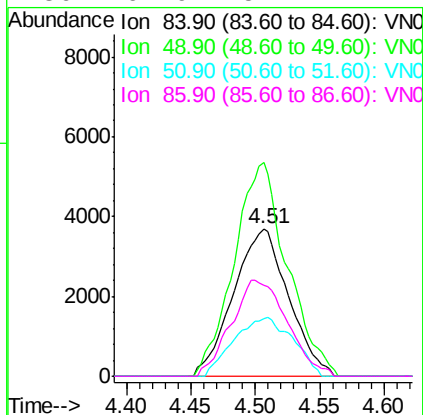
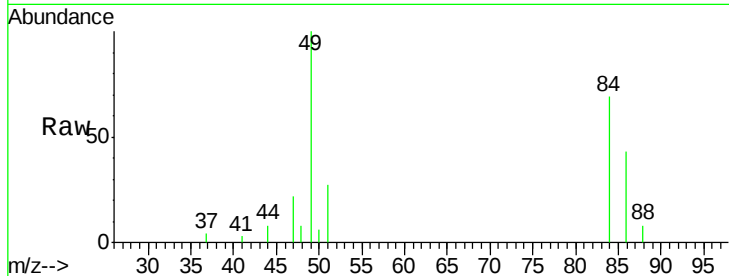




#20
Methvlene Chloride
Concen: 5.882 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

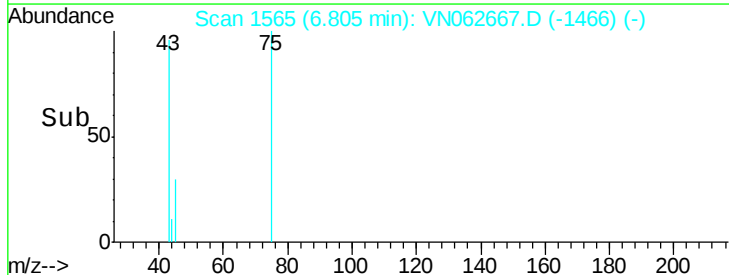
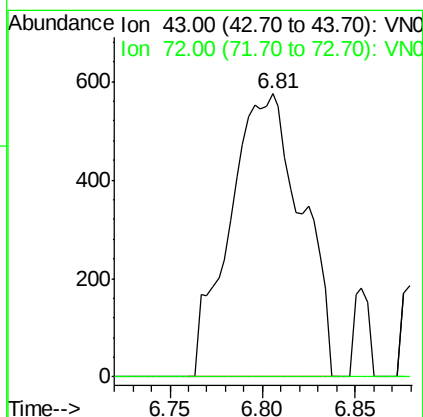
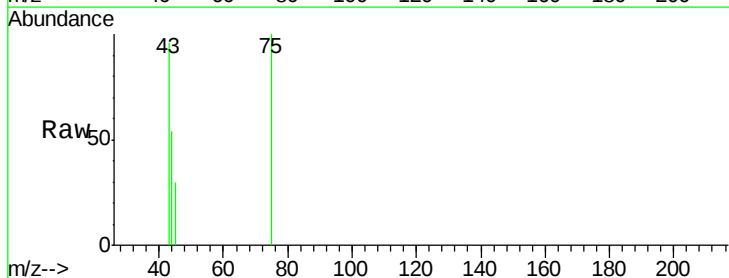
Instrument :
MSVOA_N
ClientSampleId :
HD-02-072920

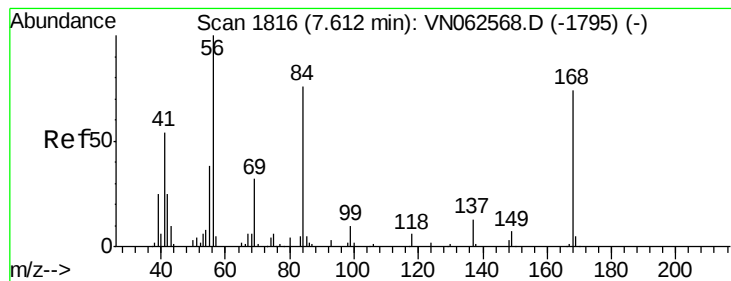
Tot Ion: 84 Resp: 10959
Ion Ratio Lower Upper
84 100
49 144.7 109.4 164.0
51 38.6 33.6 50.4
86 61.9 51.4 77.2



#25
2-Butanone
Concen: 1.310 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Tgt Ion: 43 Resp: 1550
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#





#31

Cyclohexane

Concen: 1.159 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062667.D

Acq: 30 Jul 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

HD-02-072920

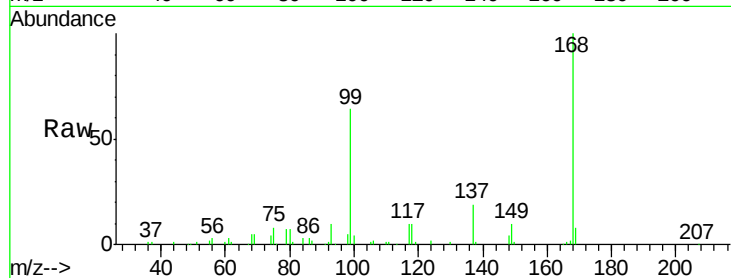
Tot Ion: 56 Resp: 3524

Ion Ratio Lower Upper

56 100

69 176.4 25.3 37.9#

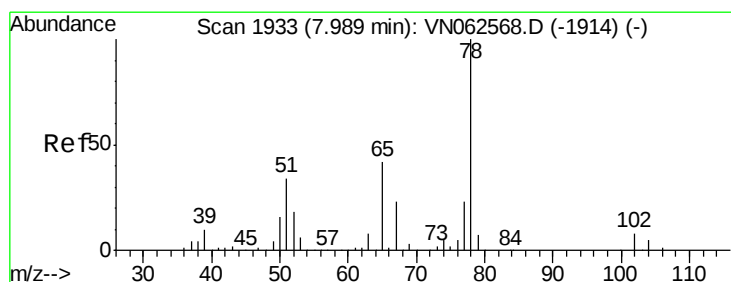
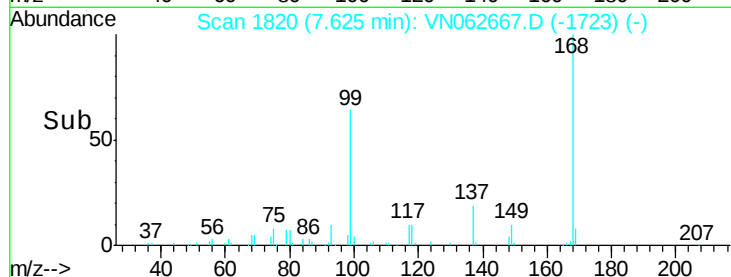
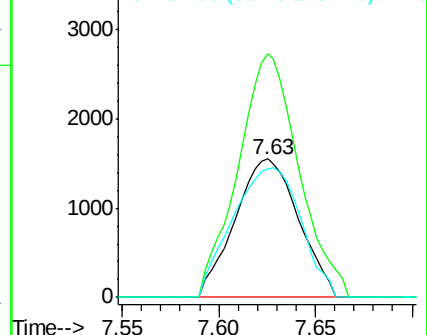
84 93.3 61.0 91.4#



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: 54.830 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062667.D

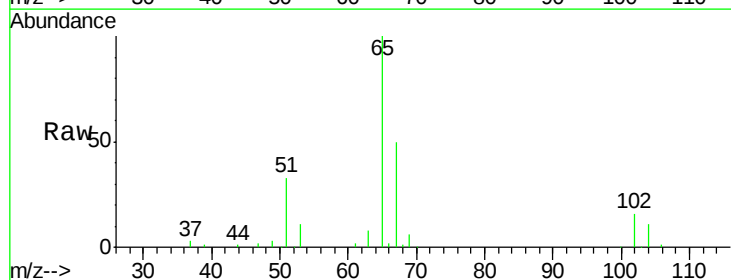
Acq: 30 Jul 2020 13:28

Tgt Ion: 65 Resp: 113180

Ion Ratio Lower Upper

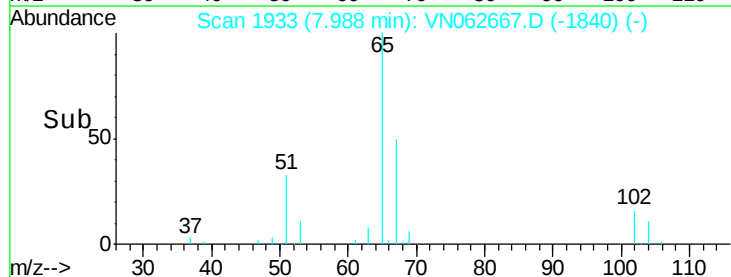
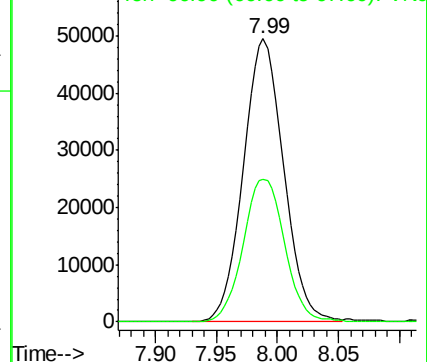
65 100

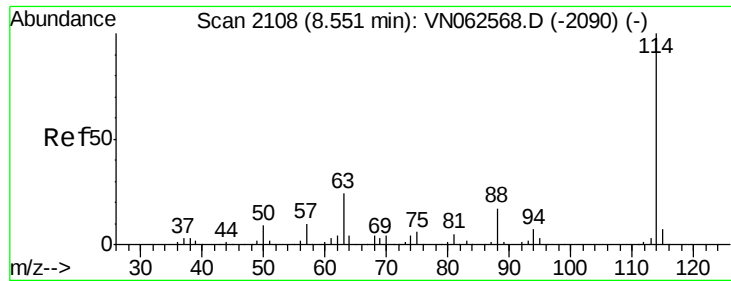
67 52.0 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

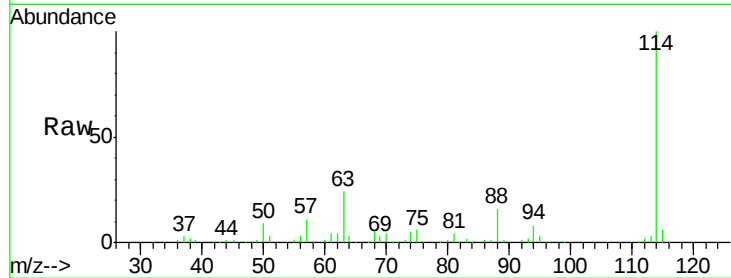




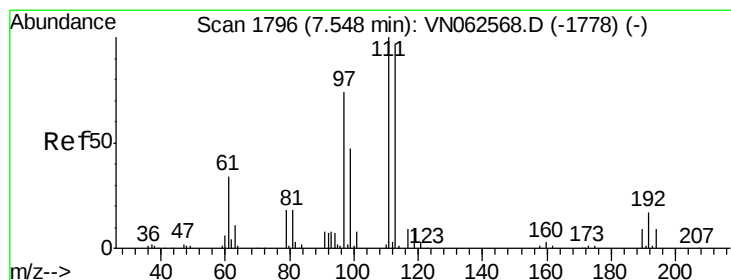
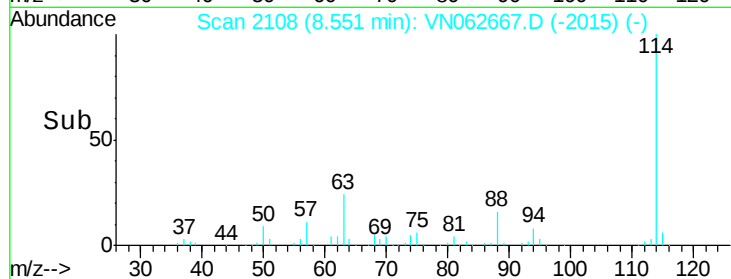
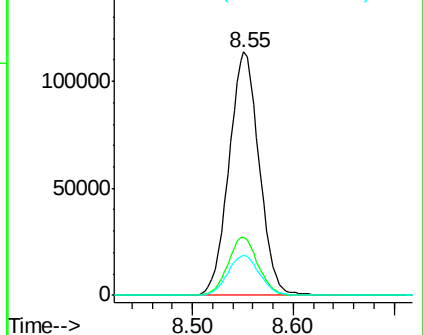
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062667.D
 Acq: 30 Jul 2020 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-072920

Tot Ion:114 Resp: 236680
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 48.4
 88 16.3 0.0 33.8

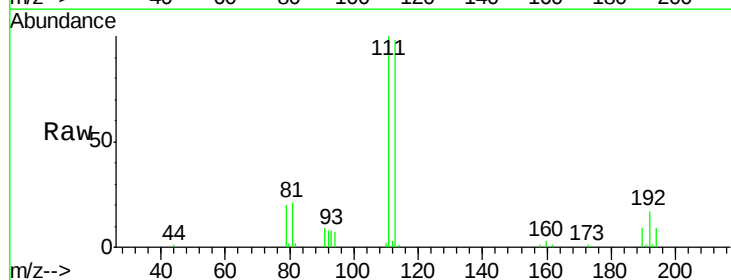


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

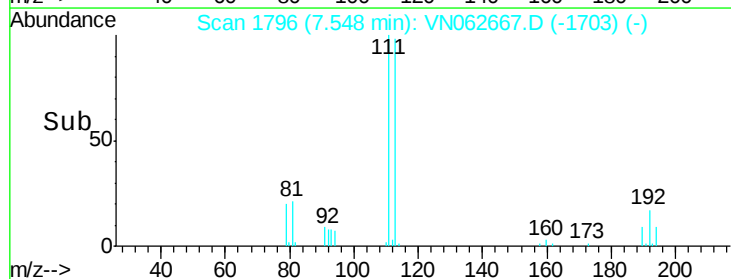
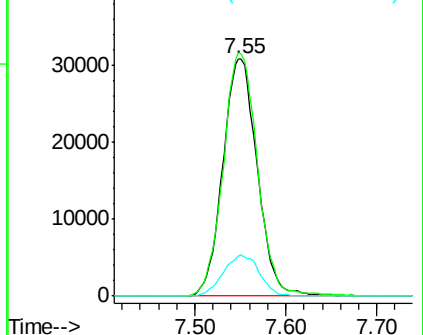


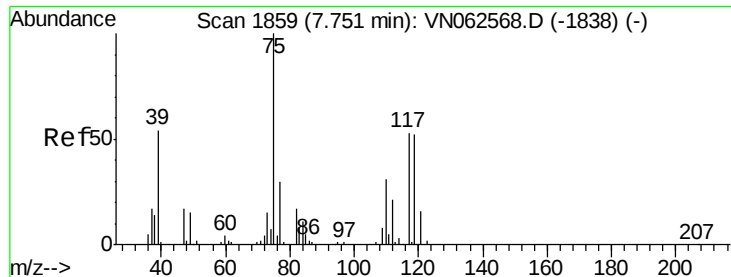
#35
 Dibromofluoromethane
 Concen: 52.131 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062667.D
 Acq: 30 Jul 2020 13:28

Tgt Ion:113 Resp: 81046
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.7 124.1
 192 18.0 14.8 22.2



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

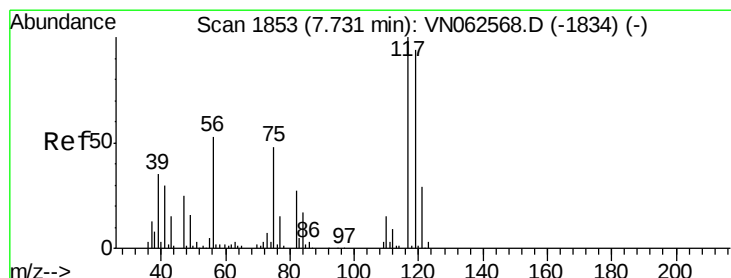
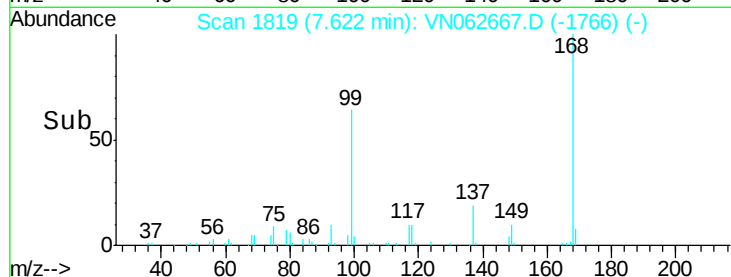
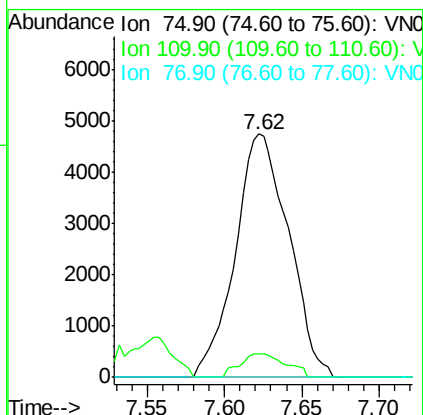
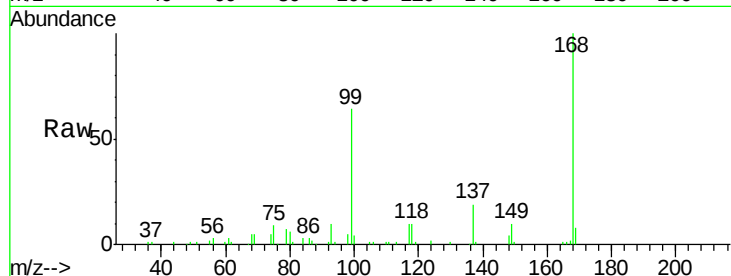




#36
 1,1-Dichloropropene
 Concen: 4.511 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062667.D
 Acq: 30 Jul 2020 13:28

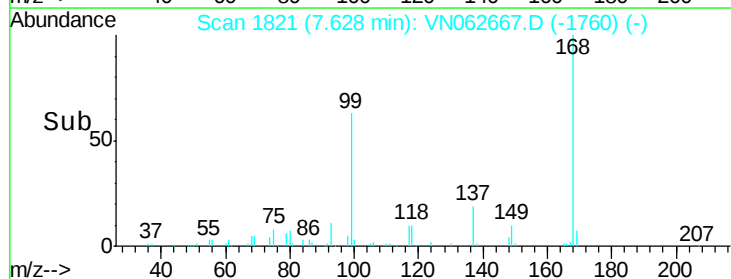
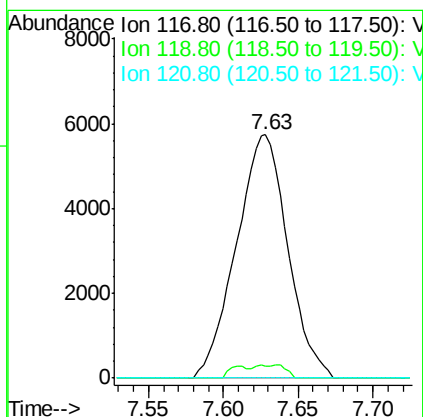
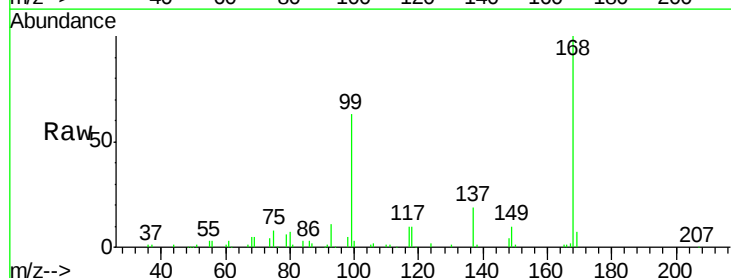
Instrument :
 MSVOA_N
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 HD-02-072920

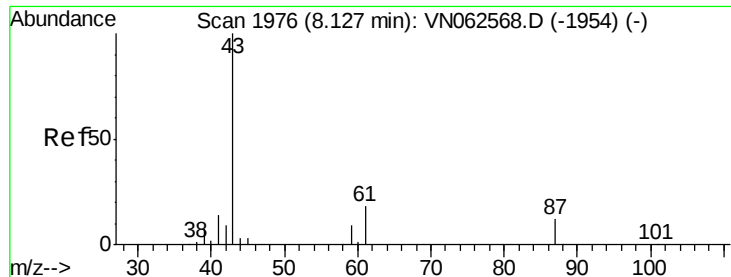
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.662 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062667.D
 Acq: 30 Jul 2020 13:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	74.8	112.2#
121	0.0	23.0	34.6#





#43

Isopropyl Acetate

Concen: 9.780 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062667.D

Acq: 30 Jul 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

HD-02-072920

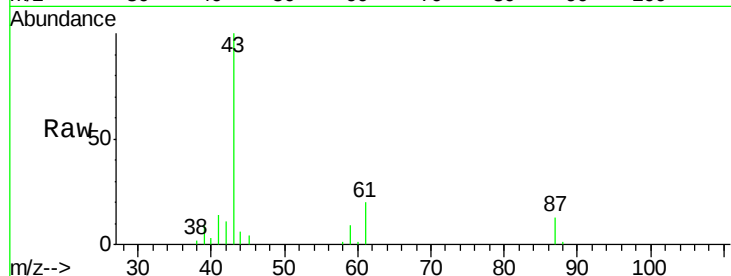
Tot Ion: 43 Resp: 42873

Ion Ratio Lower Upper

43 100

61 19.2 20.8 31.2#

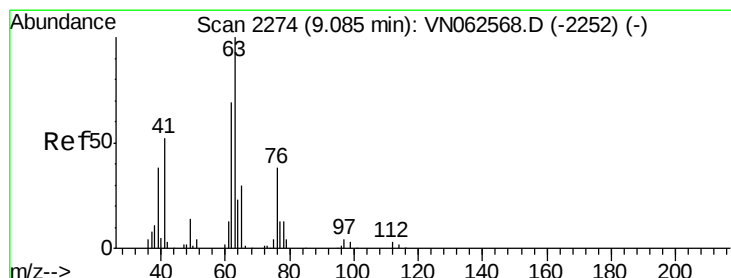
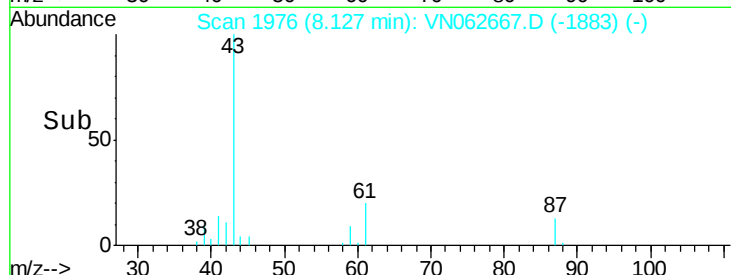
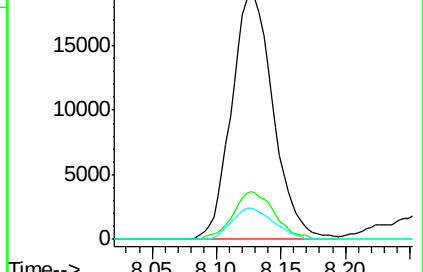
87 12.7 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062667.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062667.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062667.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.336 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062667.D

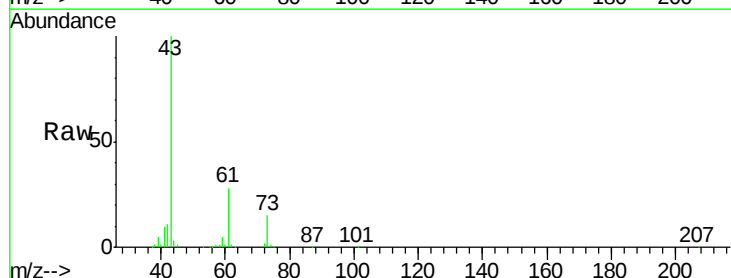
Acq: 30 Jul 2020 13:28

Tgt Ion: 63 Resp: 721

Ion Ratio Lower Upper

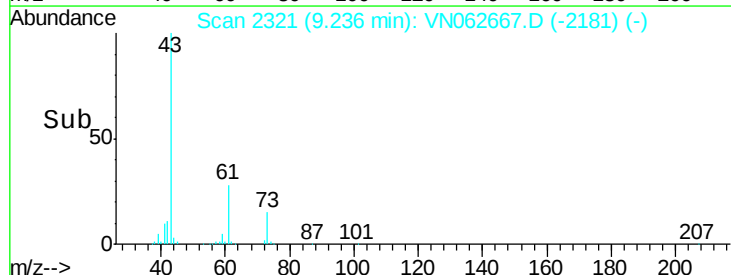
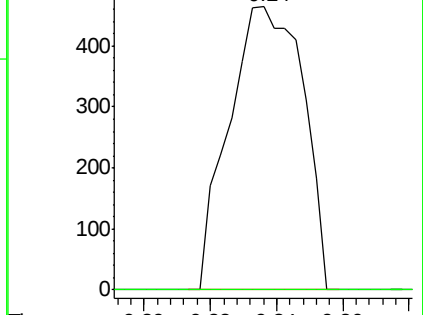
63 100

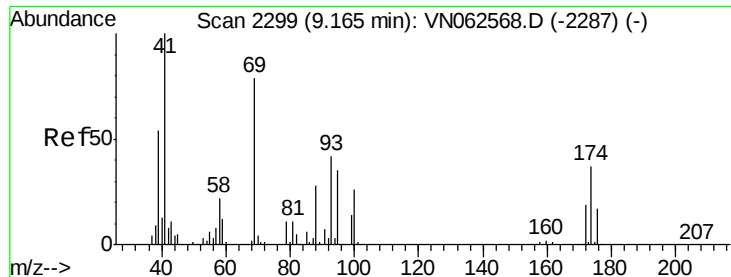
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062667.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062667.D (-2181) (-)

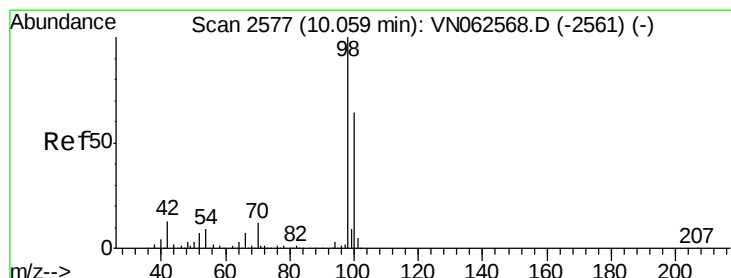
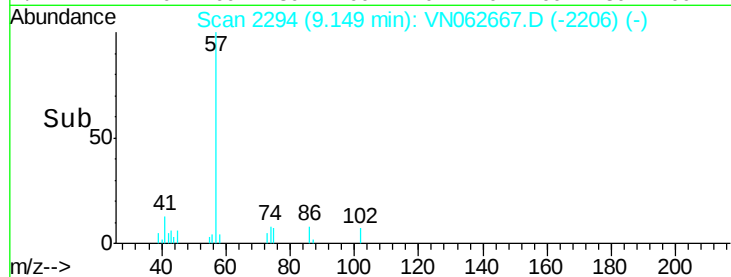
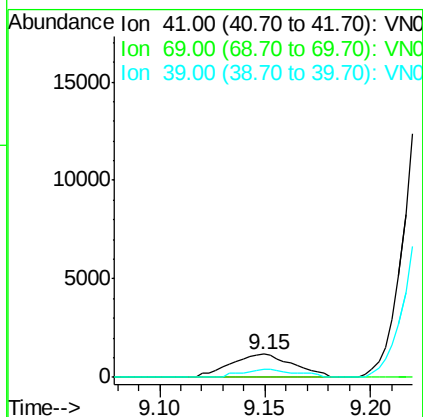
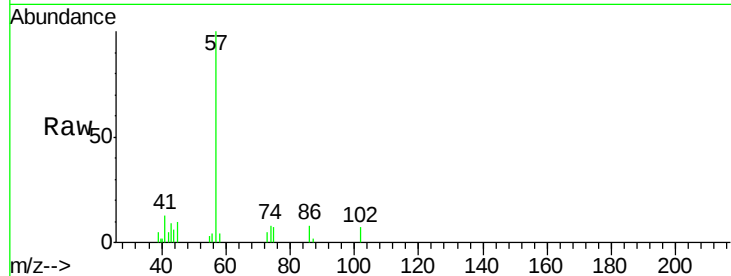




#48
Methvl methacrylate
Concen: 1.167 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

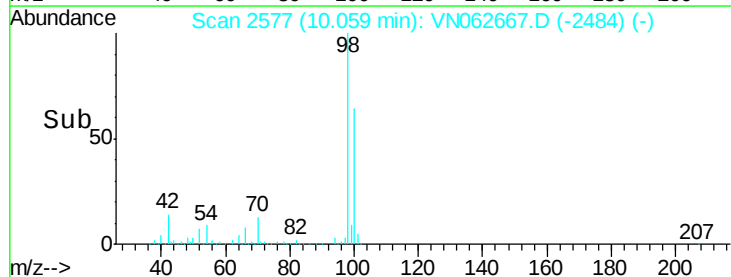
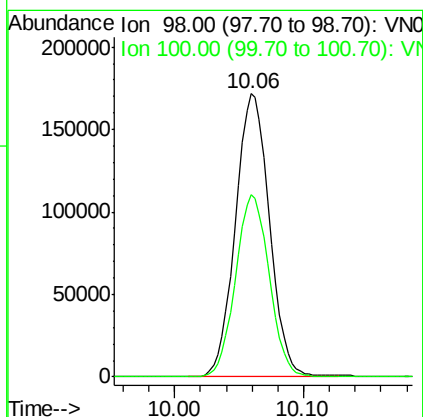
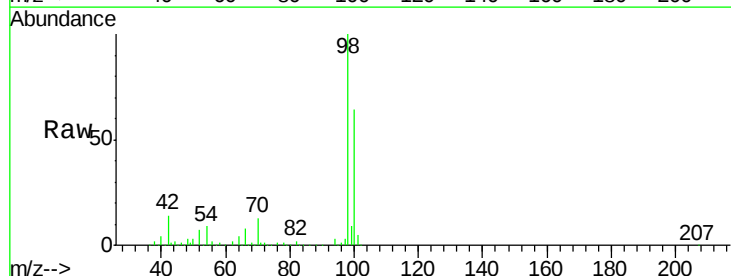
Instrument :
MSVOA_N
ClientSampleId :
HD-02-072920

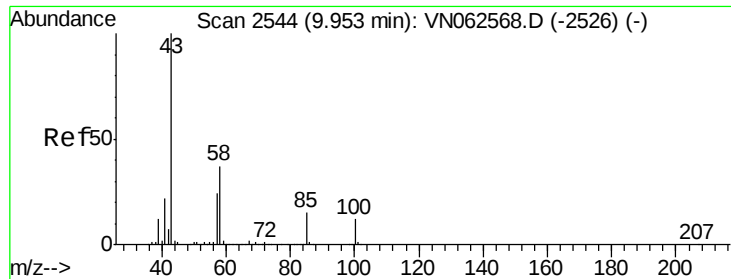
Tot Ion: 41 Resp: 2432
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 50.872 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Tgt Ion: 98 Resp: 315558
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.618 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062667.D

Acq: 30 Jul 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

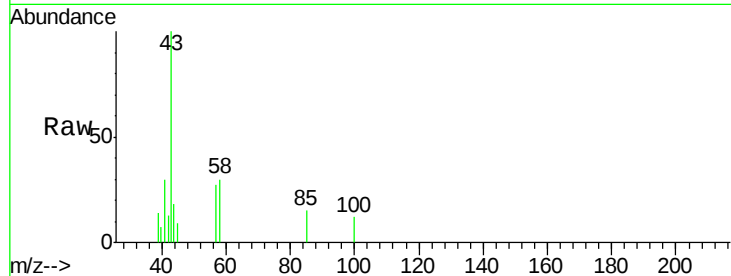
HD-02-072920

Tot Ion: 43 Resp: 4244

Ion Ratio Lower Upper

43 100

58 41.8 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-2526) (-)

Ion 58.00 (57.70 to 58.70): VN062568.D (-2526) (-)

6000

5000

4000

3000

2000

1000

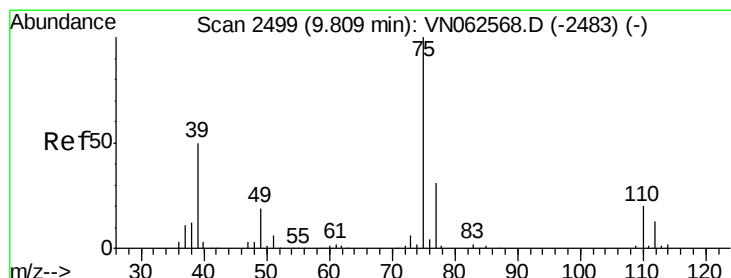
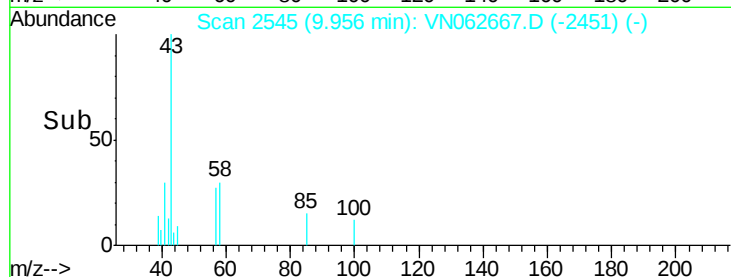
0

9.90

9.95

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.764 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062667.D

Acq: 30 Jul 2020 13:28

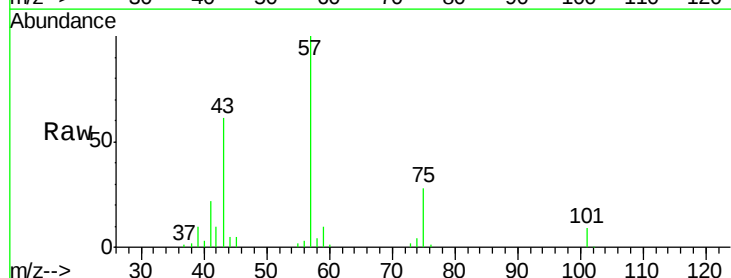
Tgt Ion: 75 Resp: 18489

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 36.0 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062568.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062568.D (-2483) (-)

15000

10000

5000

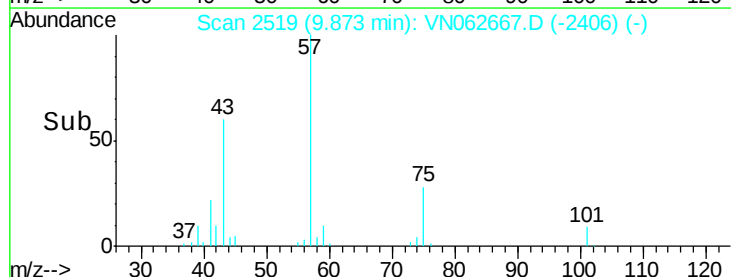
0

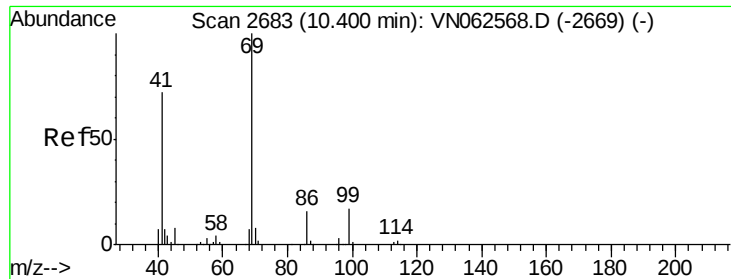
9.80

9.85

9.90

Time-->





#56

Ethyl methacrylate

Concen: 2.132 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062667.D

Acq: 30 Jul 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

HD-02-072920

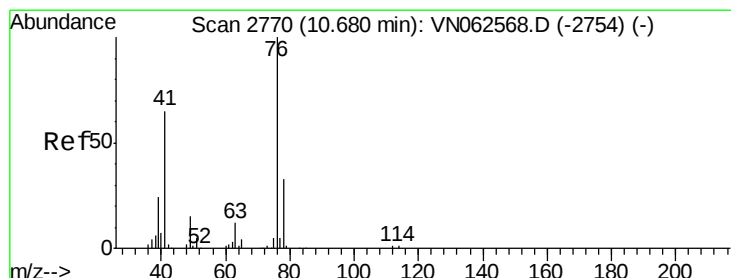
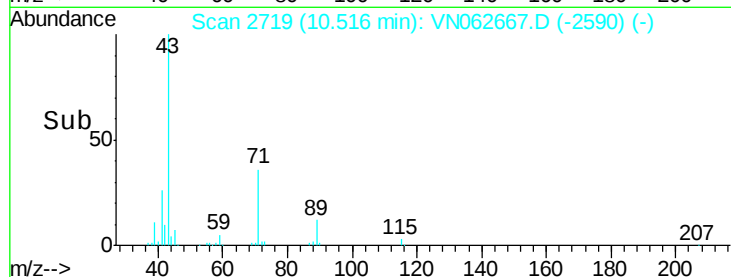
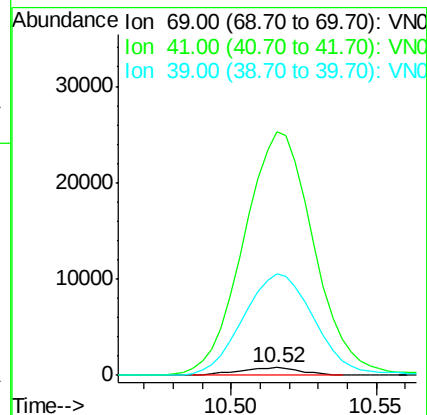
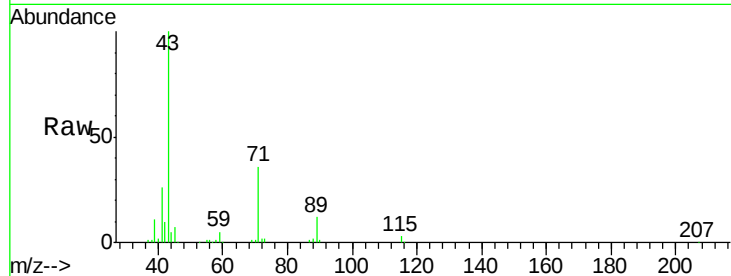
Tot Ion: 69 Resp: 1162

Ion Ratio Lower Upper

69 100

41 3666.6 57.2 85.8#

39 1564.9 28.6 43.0#



#57

1,3-Dichloropropane

Concen: 0.837 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062667.D

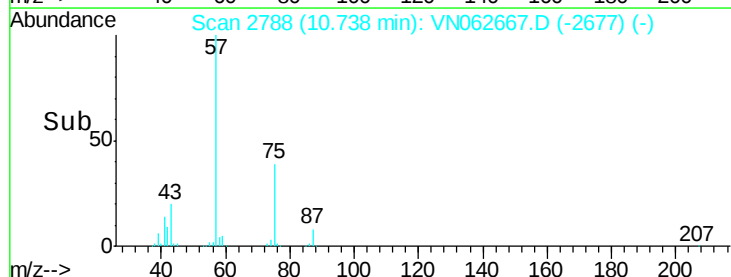
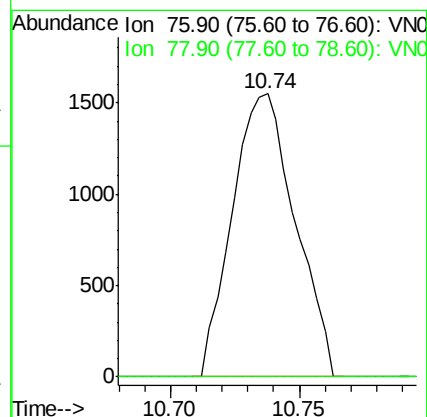
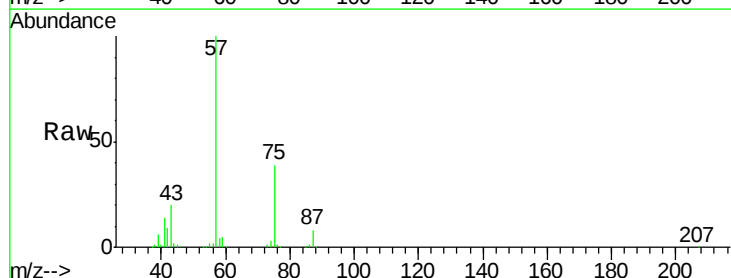
Acq: 30 Jul 2020 13:28

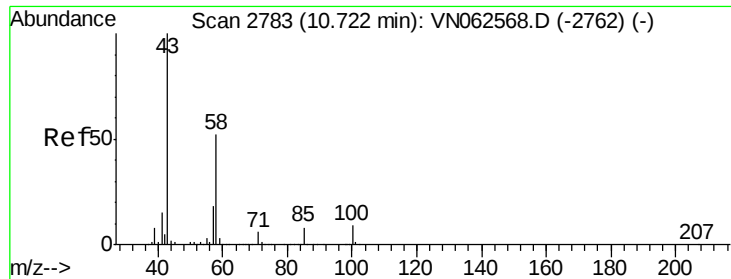
Tgt Ion: 76 Resp: 2637

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

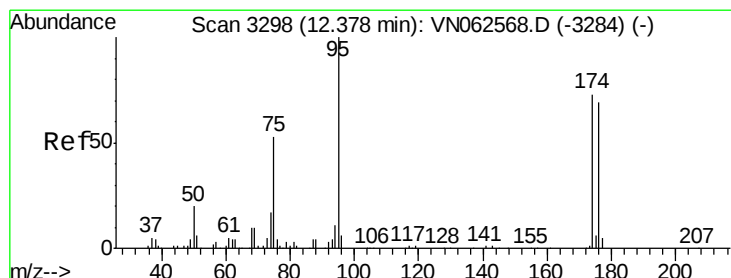
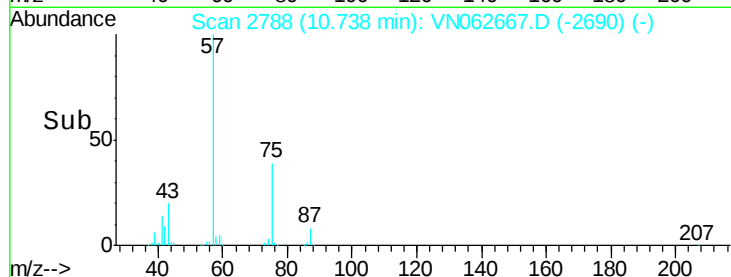
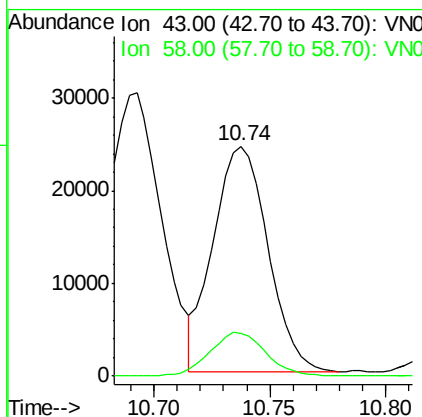
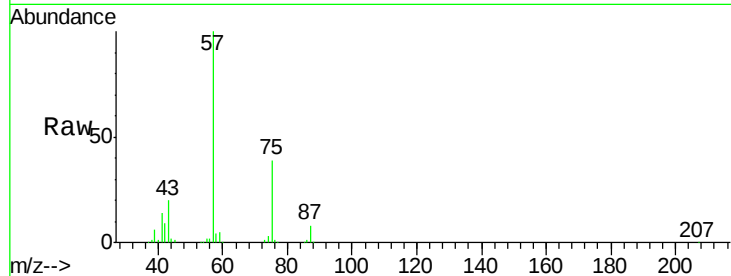




#59
2-Hexanone
Concen: 22.451 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

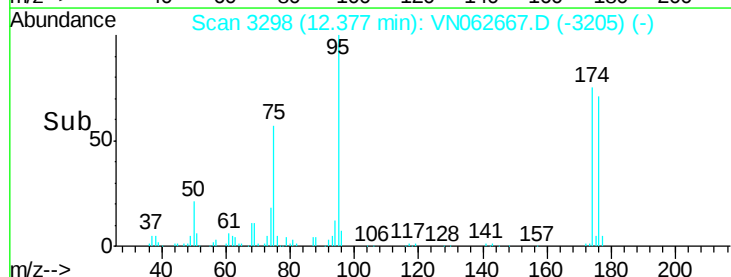
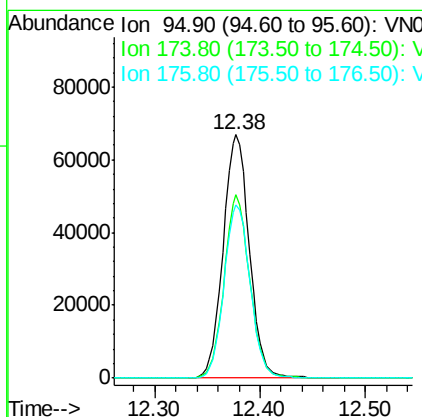
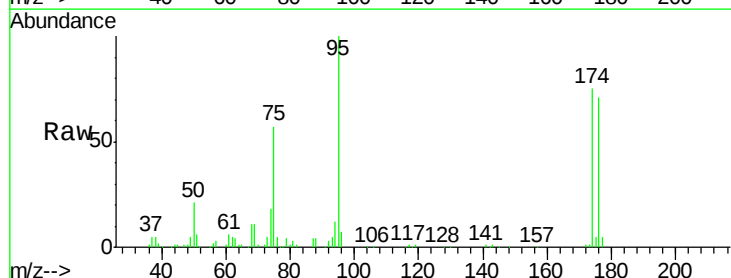
Instrument :
MSVOA_N
ClientSampleId :
HD-02-072920

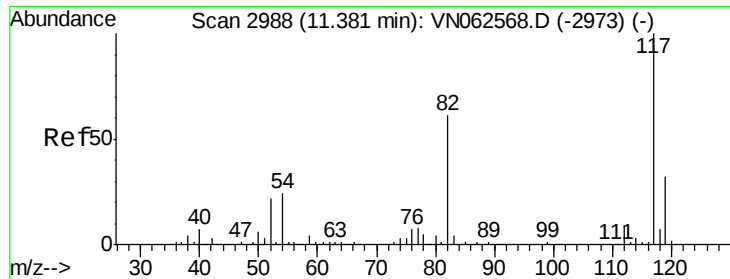
Tot Ion: 43 Resp: 40014
Ion Ratio Lower Upper
43 100
58 19.8 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 50.688 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Tgt Ion: 95 Resp: 114963
Ion Ratio Lower Upper
95 100
174 73.1 0.0 144.6
176 70.7 0.0 139.4

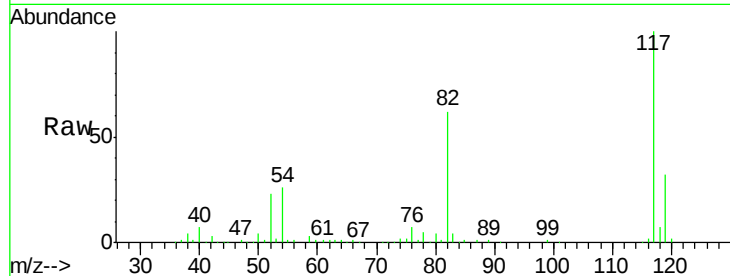




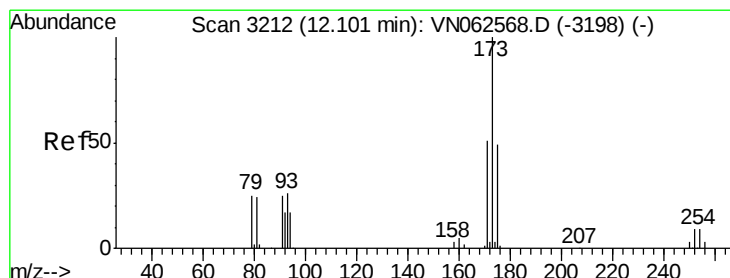
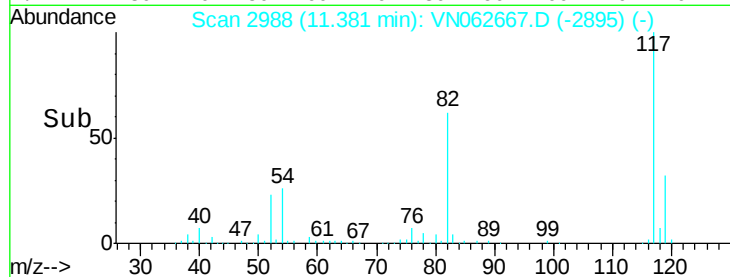
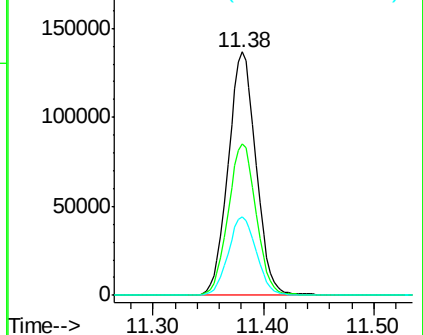
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Instrument :
MSVOA_N
ClientSampleId :
HD-02-072920

Tot Ion:117 Resp: 239535
Ion Ratio Lower Upper
117 100
82 62.4 49.0 73.6
119 32.0 25.4 38.2

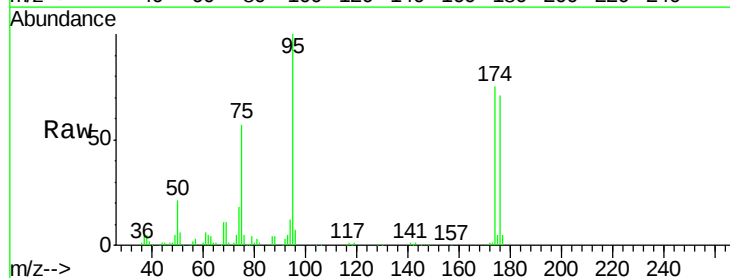


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

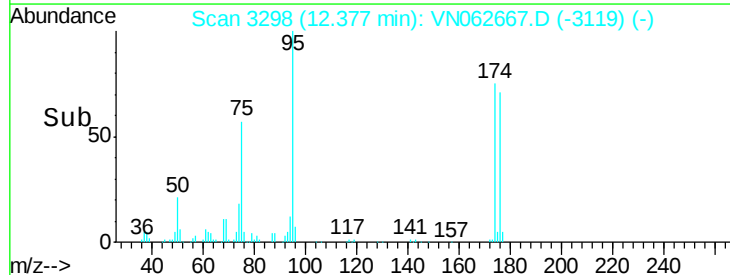
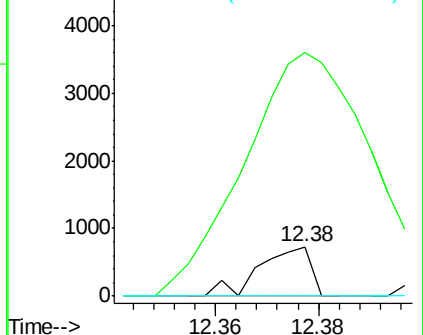


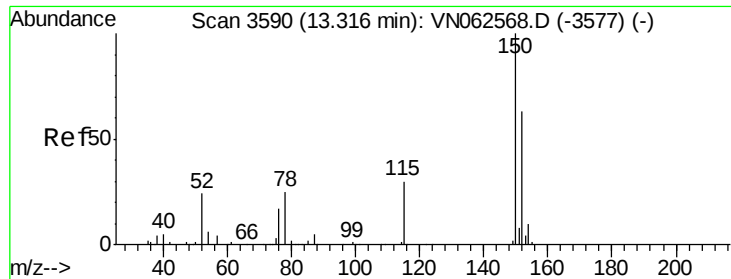
#71
Bromoform
Concen: 0.351 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Tgt Ion:173 Resp: 498
Ion Ratio Lower Upper
173 100
175 1013.1 24.1 72.2#
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: VN062667.D

Acq: 30 Jul 2020 13:28

Instrument :

MSVOA_N

ClientSampled :

HD-02-072920

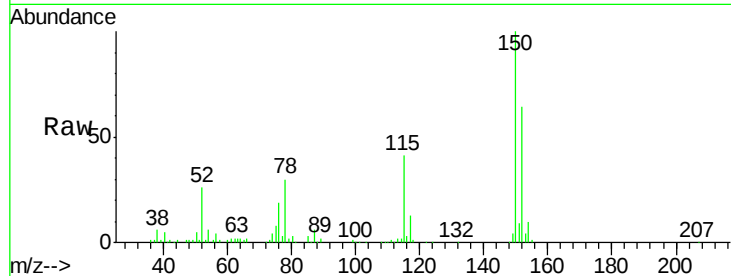
Tot Ion:152 Resp: 89289

Ion Ratio Lower Upper

152 100

115 64.0 31.8 95.4

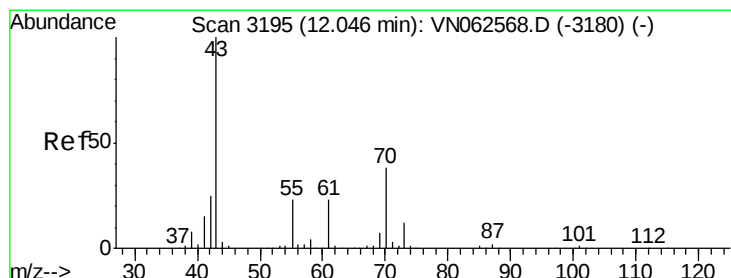
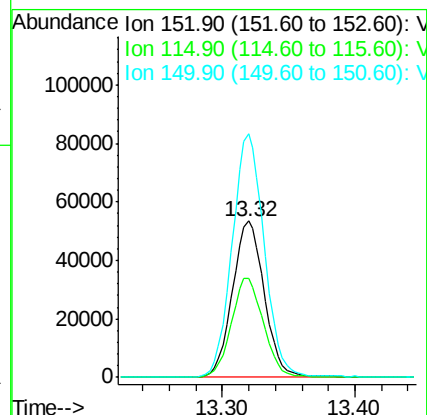
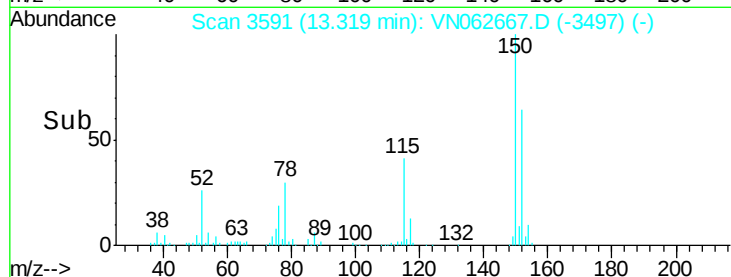
150 156.9 0.0 351.4



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-ethyl acetate

Concen: 0.495 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062667.D

Acq: 30 Jul 2020 13:28

Tgt Ion: 43 Resp: 1562

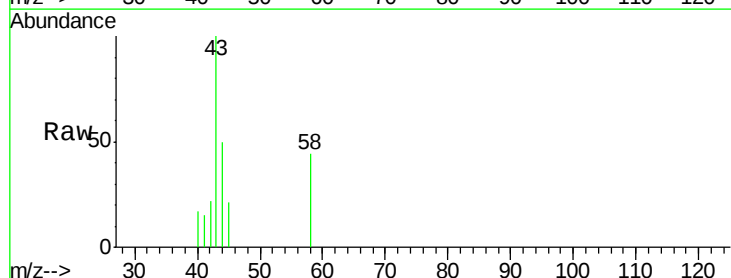
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

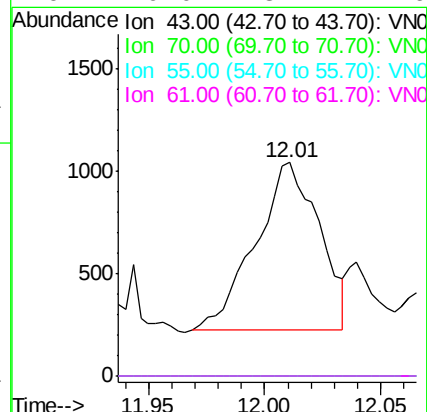
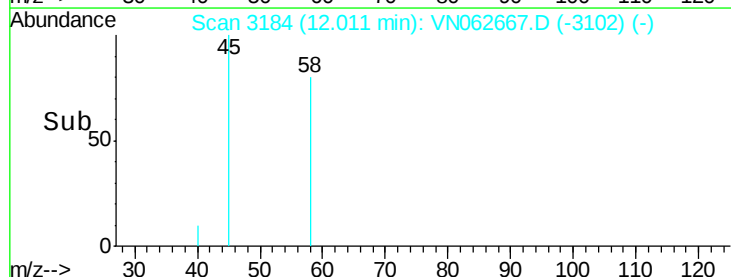


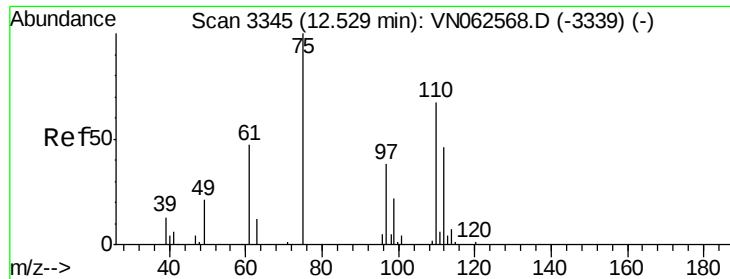
Abundance Ion 43.00 (42.70 to 43.70): V

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

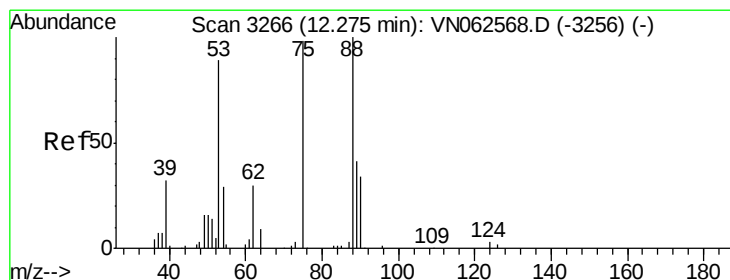
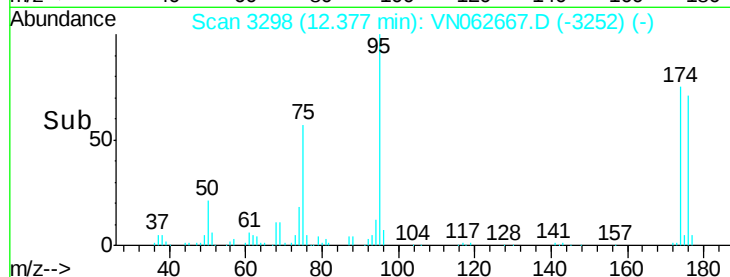
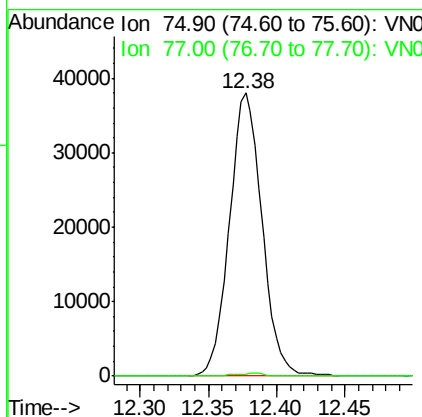
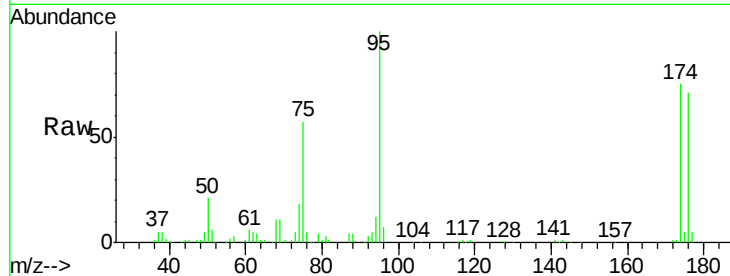




#76
 1,2,3-Trichloropropane
 Concen: 27.717 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062667.D
 Acq: 30 Jul 2020 13:28

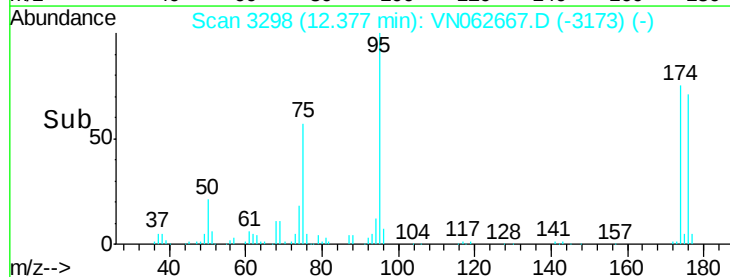
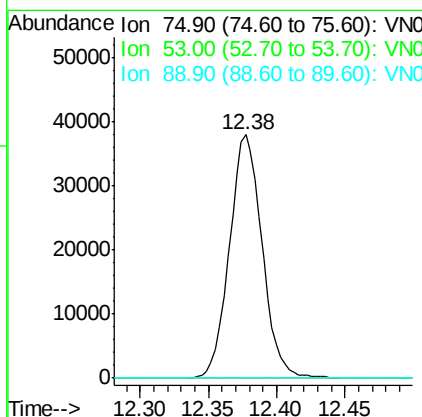
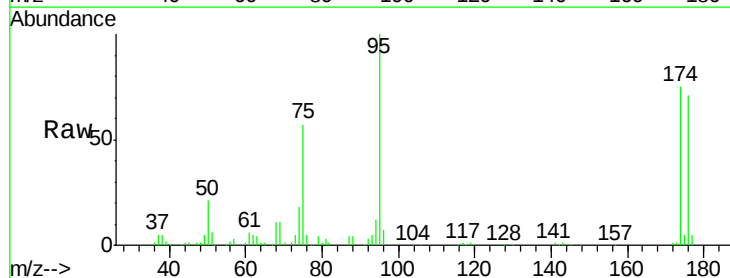
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-072920

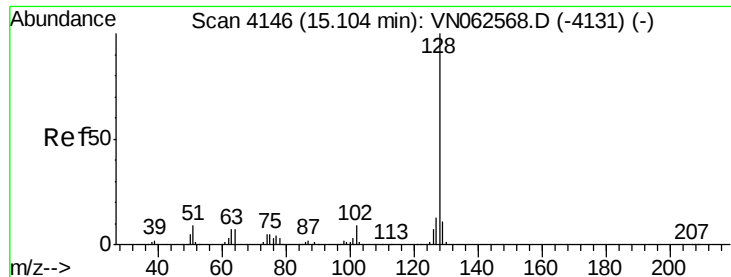
Tot Ion: 75 Resp: 62992
 Ion Ratio Lower Upper
 75 100
 77 0.8 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.156 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062667.D
 Acq: 30 Jul 2020 13:28

Tgt Ion: 75 Resp: 62992
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#





#95
Naphthalene
Concen: 8.797 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062667.D
Acq: 30 Jul 2020 13:28

Instrument :
MSVOA_N
ClientSampleId :
HD-02-072920

Tot Ion:128 Resp: 21621
Ion Ratio Lower Upper
128 100
127 13.7 10.4 15.6
129 11.7 8.7 13.1

