

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063066.D
 Acq On : 21 Aug 2020 4:30
 Operator : JC/MD
 Sample : L3502-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-081920

Quant Time: Aug 21 06:42:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	138756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	237478	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	264069	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90924	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	96899	58.92	ug/l	0.00
Spiked Amount			Recovery	=	117.84%	
35) Dibromofluoromethane	7.55	113	84400	54.54	ug/l	0.00
Spiked Amount			Recovery	=	109.08%	
50) Toluene-d8	10.06	98	324212	54.55	ug/l	0.00
Spiked Amount			Recovery	=	109.10%	
62) 4-Bromofluorobenzene	12.38	95	106281	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	

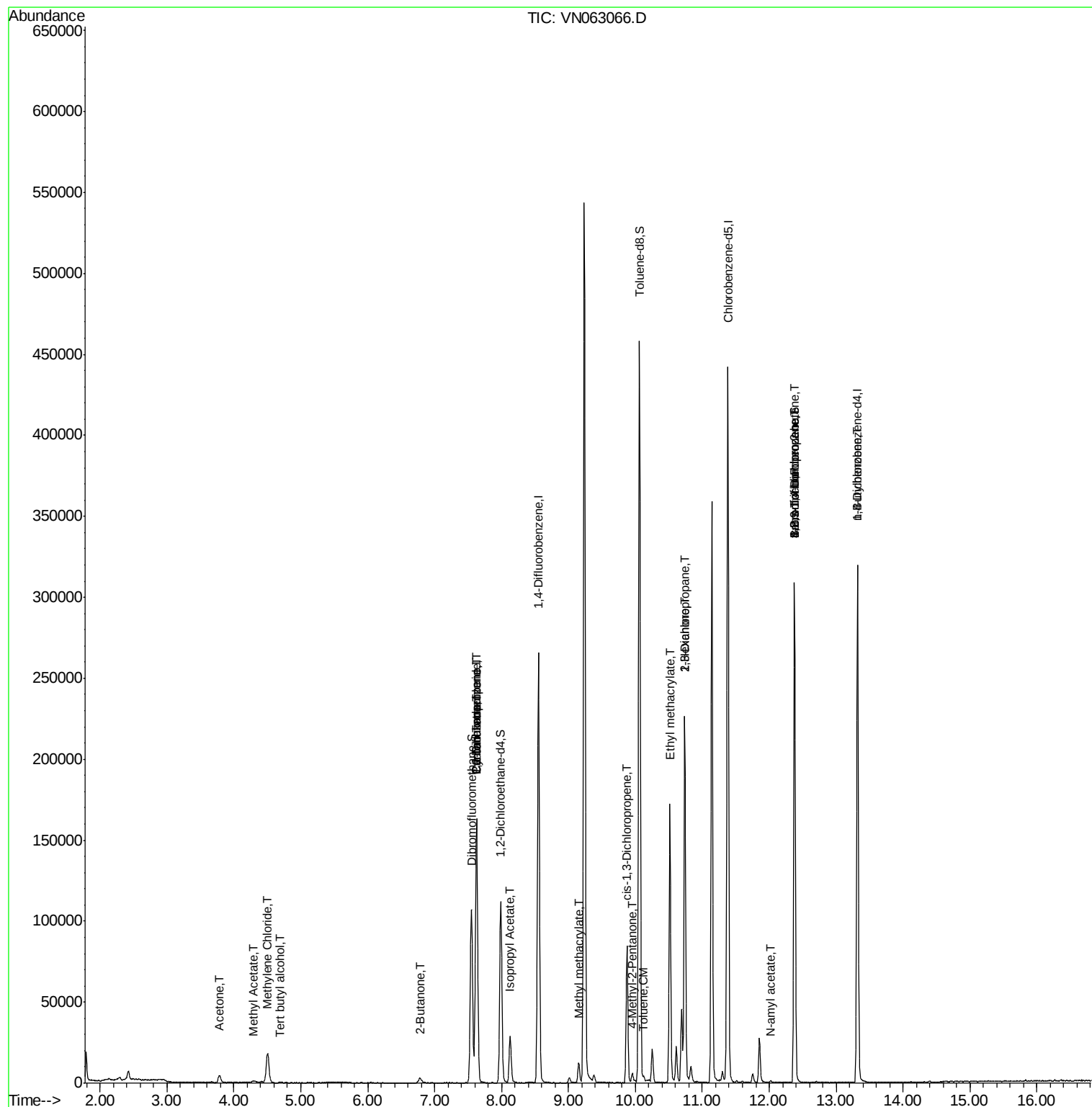
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	125	0.537	ug/l #	74
16) Acetone	3.78	43	8612	13.076	ug/l	95
18) Methyl Acetate	4.30	43	2457	1.503	ug/l #	66
20) Methylene Chloride	4.50	84	13690	8.329	ug/l	98
25) 2-Butanone	6.79	43	699	0.801	ug/l #	48
31) Cyclohexane	7.63	56	2626	1.083	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10334	4.938	ug/l #	48
38) Carbon Tetrachloride	7.63	117	12709	6.015	ug/l #	18
43) Isopropyl Acetate	8.13	43	33470	10.303	ug/l #	89
48) Methyl methacrylate	9.15	41	1809	1.177	ug/l #	11
51) 4-Methyl-2-Pentanone	9.95	43	3302	1.608	ug/l	92
52) Toluene	10.12	92	1237	0.309	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	14314	5.198	ug/l #	66
56) Ethyl methacrylate	10.51	69	1194	2.177	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2294	0.807	ug/l #	42
59) 2-Hexanone	10.74	43	31400	21.922	ug/l #	54
71) Bromoform	12.38	173	998	0.608	ug/l #	1
74) N-amyl acetate	12.01	43	933	0.418	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	51896	29.364	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	51896	80.646	ug/l #	15
89) n-Butylbenzene	13.32	91	61	2.782	ug/l #	34

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

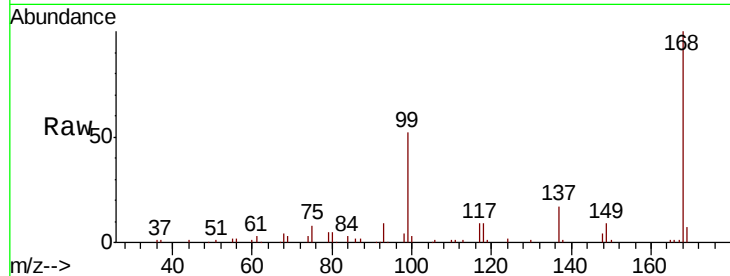
OK-02-081920

Tot Ion:168 Resp: 138756

Ion Ratio Lower Upper

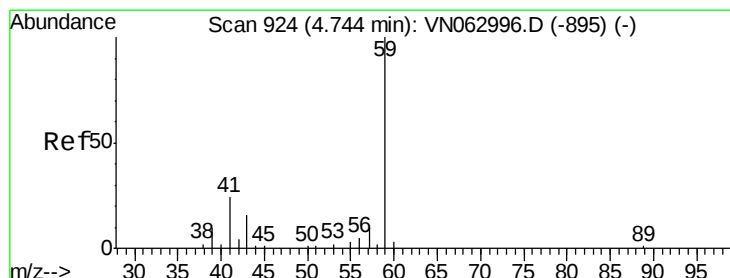
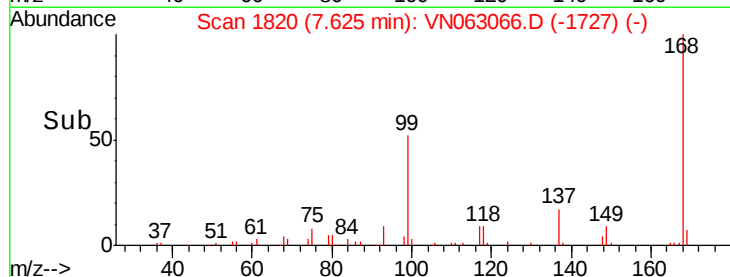
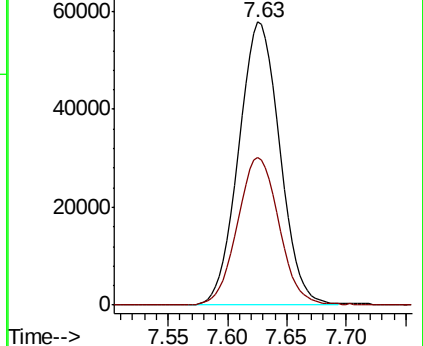
168 100

99 52.4 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.537 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.05 min

Lab File: VN063066.D

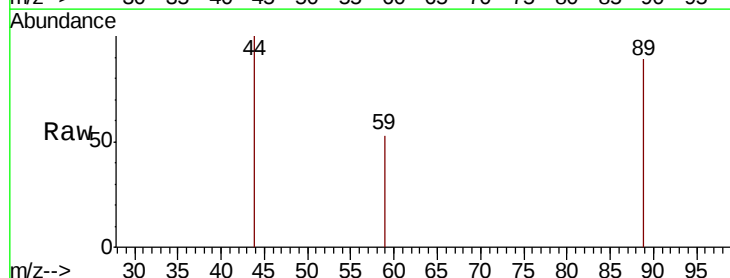
Acq: 21 Aug 2020 4:30

Tgt Ion: 59 Resp: 125

Ion Ratio Lower Upper

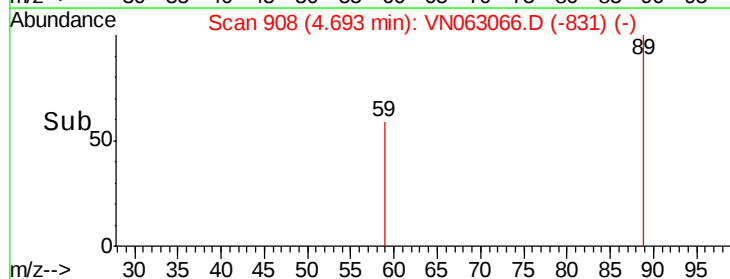
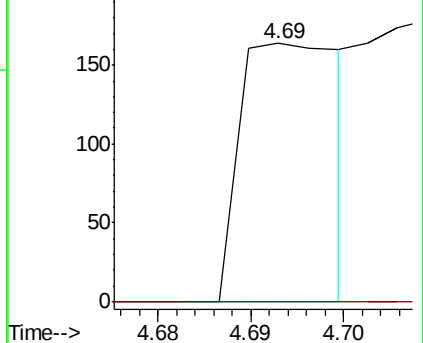
59 100

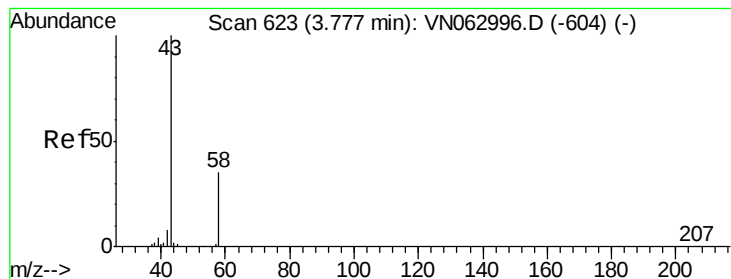
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 13.076 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

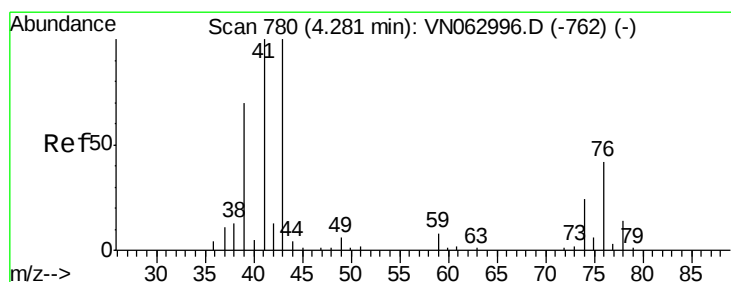
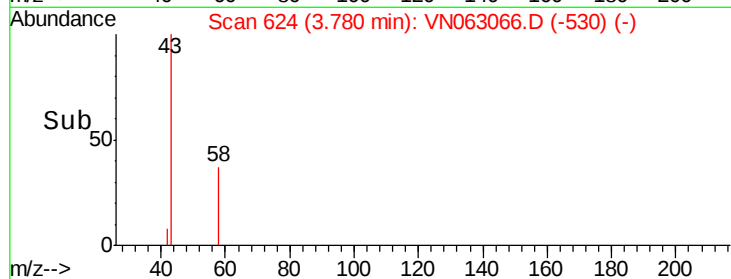
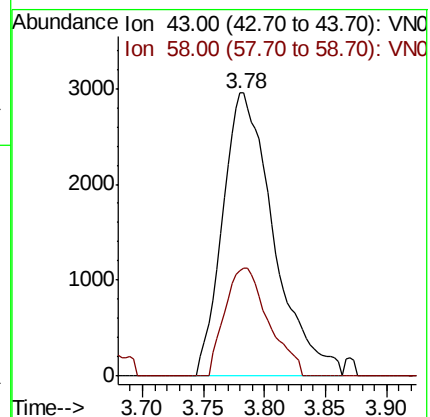
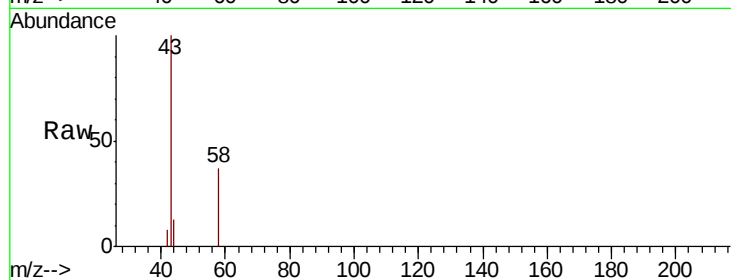
OK-02-081920

Tot Ion: 43 Resp: 8612

Ion Ratio Lower Upper

43 100

58 37.3 27.8 41.6



#18

Methyl Acetate

Concen: 1.503 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.02 min

Lab File: VN063066.D

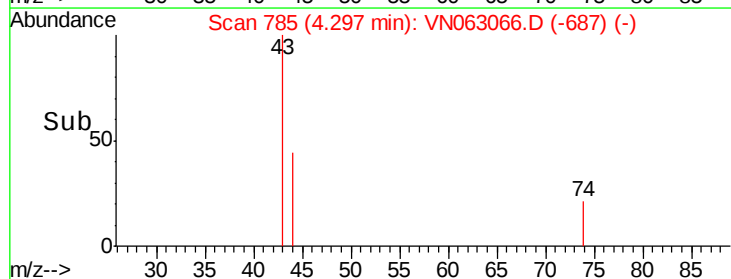
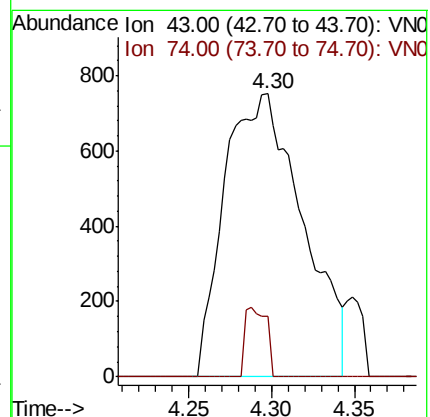
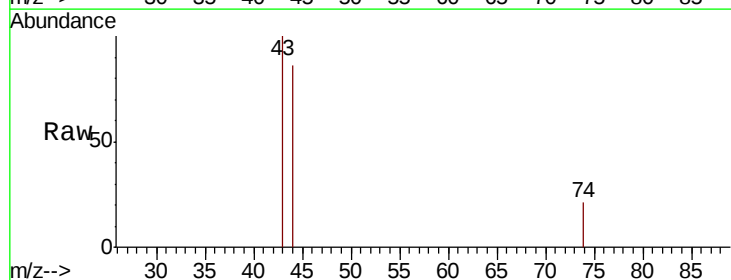
Acq: 21 Aug 2020 4:30

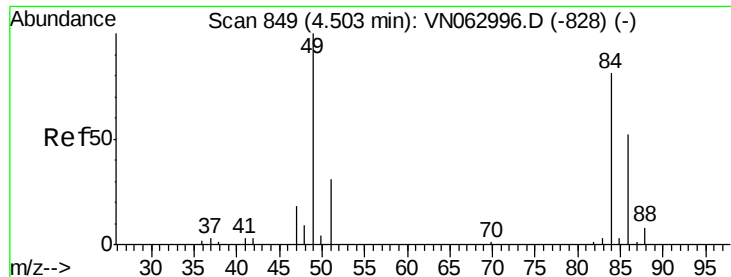
Tgt Ion: 43 Resp: 2457

Ion Ratio Lower Upper

43 100

74 6.7 18.6 28.0#

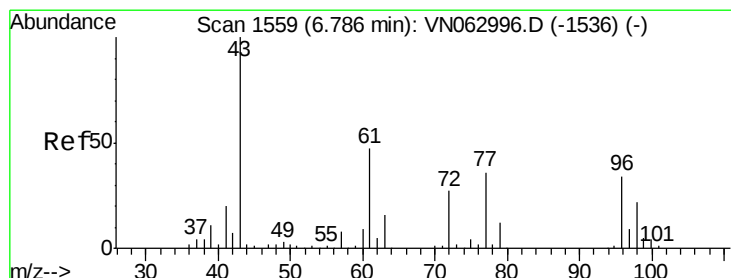
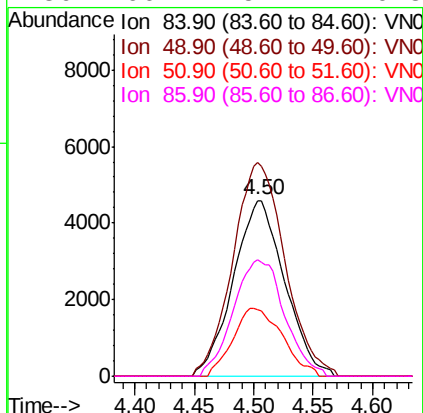
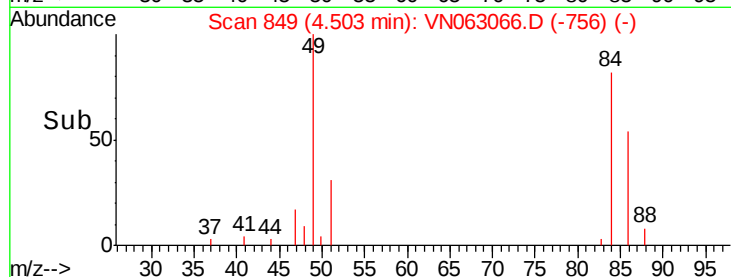
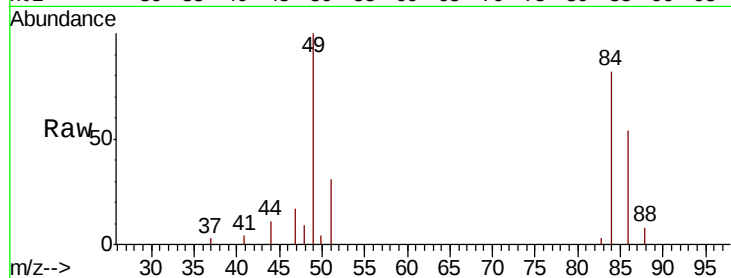




#20
Methylene Chloride
Concen: 8.329 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN063066.D
Acq: 21 Aug 2020 4:30

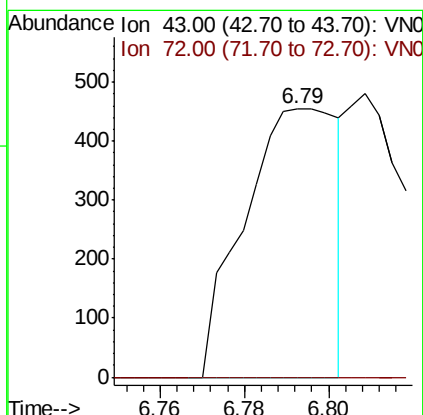
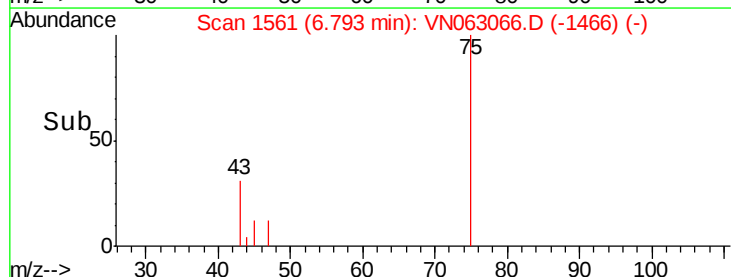
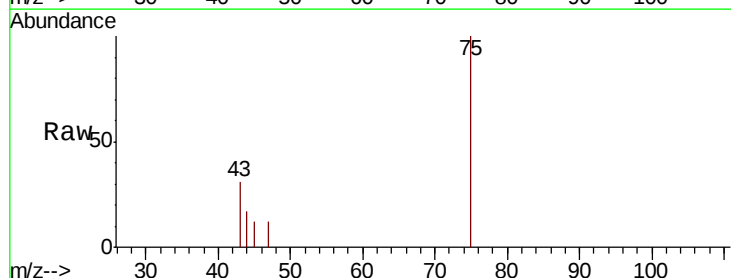
Instrument :
MSVOA_N
ClientSampled :
OK-02-081920

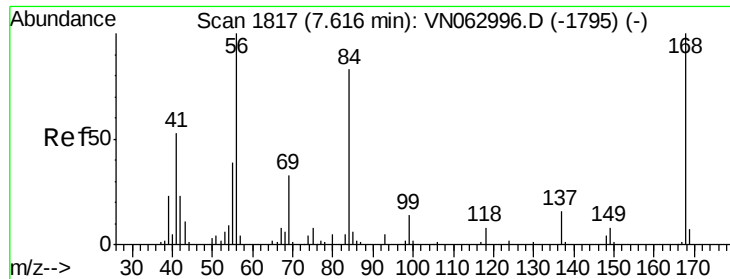
Tot Ion:	84	Resp:	13690
Ion	Ratio	Lower	Upper
84	100		
49	121.4	98.7	148.1
51	38.1	30.8	46.2
86	66.1	51.2	76.8



#25
2-Butanone
Concen: 0.801 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN063066.D
Acq: 21 Aug 2020 4:30

Tgt Ion:	43	Resp:	699
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.8	32.6#

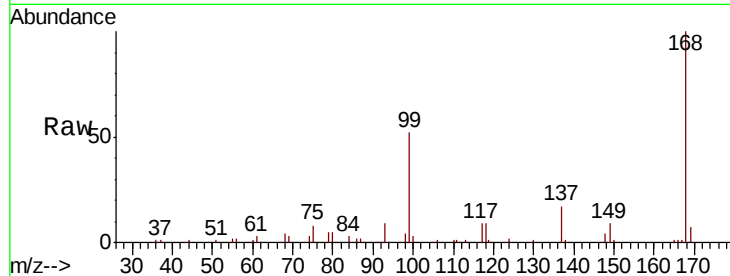




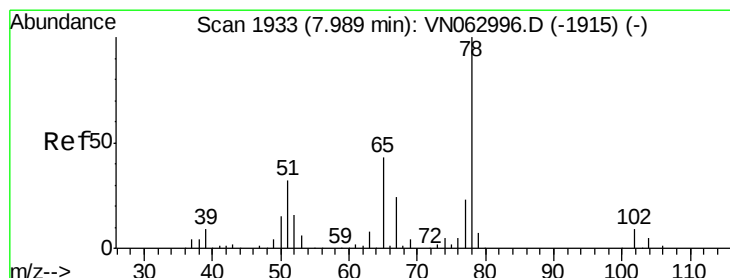
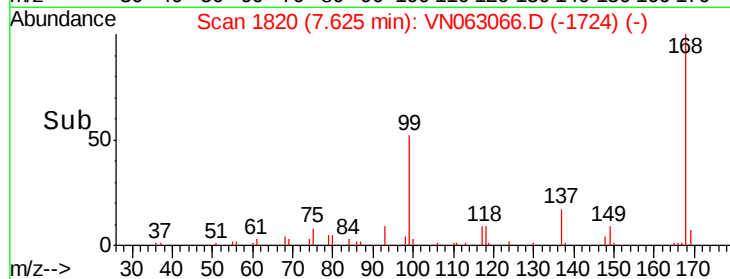
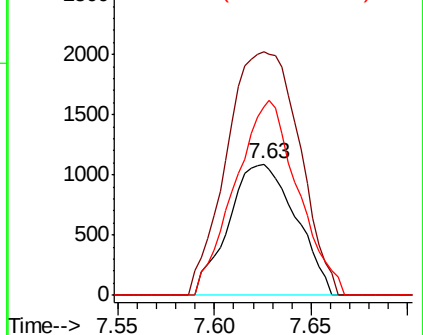
#31
Cyclohexane
Concen: 1.083 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN063066.D
Acq: 21 Aug 2020 4:30

Instrument :
MSVOA_N
ClientSampleId :
OK-02-081920

Tot Ion: 56 Resp: 2626
Ion Ratio Lower Upper
56 100
69 185.8 26.6 40.0#
84 144.4 66.4 99.6#

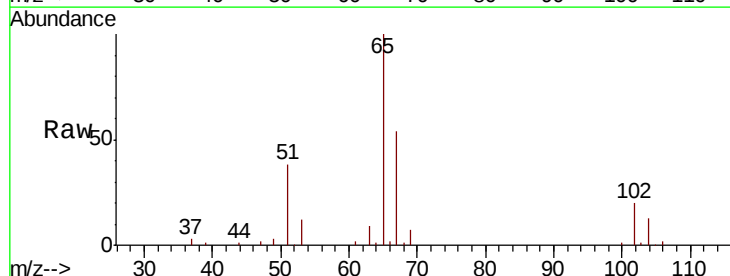


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

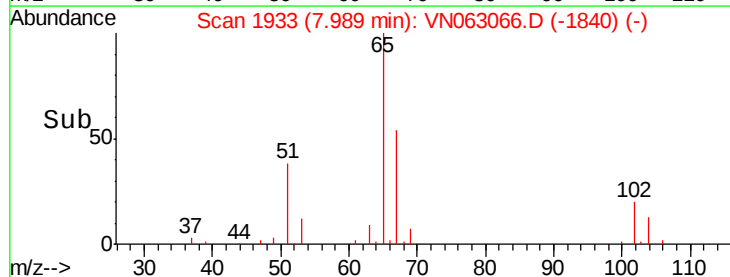
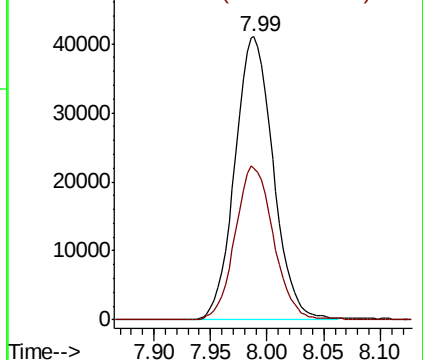


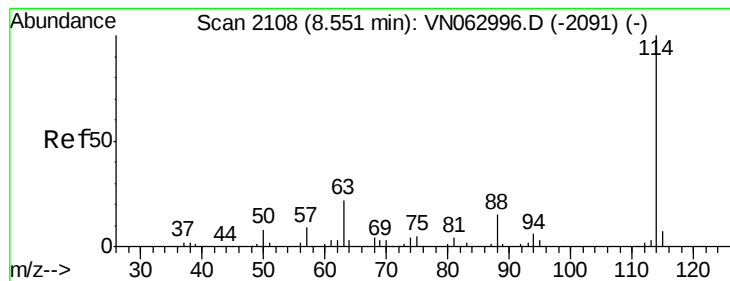
#33
1,2-Dichloroethane-d4
Concen: 58.922 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN063066.D
Acq: 21 Aug 2020 4:30

Tgt Ion: 65 Resp: 96899
Ion Ratio Lower Upper
65 100
67 54.3 0.0 112.0



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: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

OK-02-081920

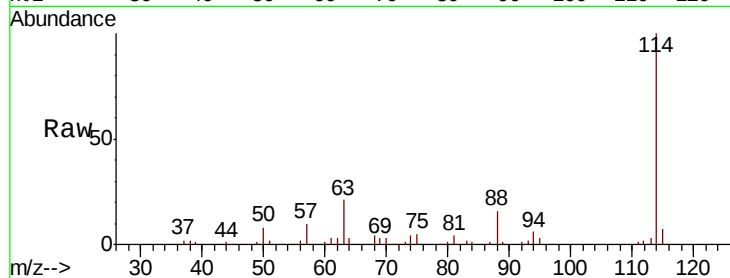
Tot Ion:114 Resp: 237478

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

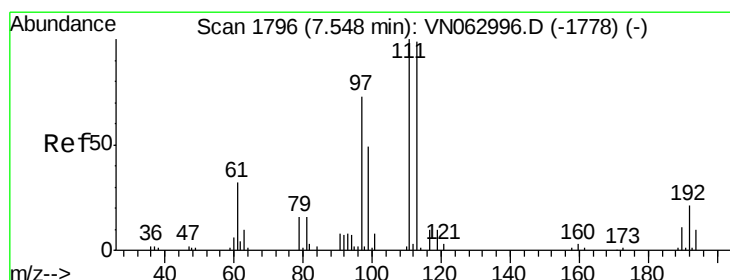
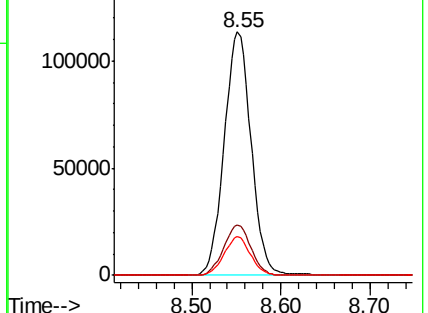
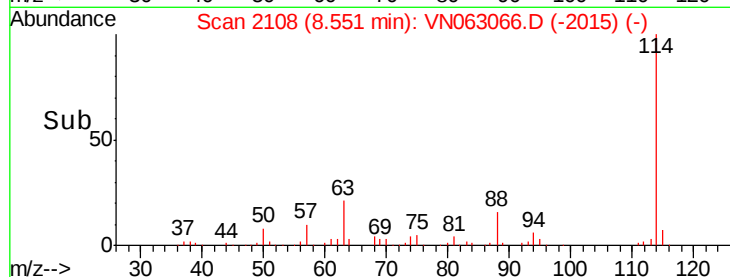
88 16.0 0.0 30.6



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: 54.543 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

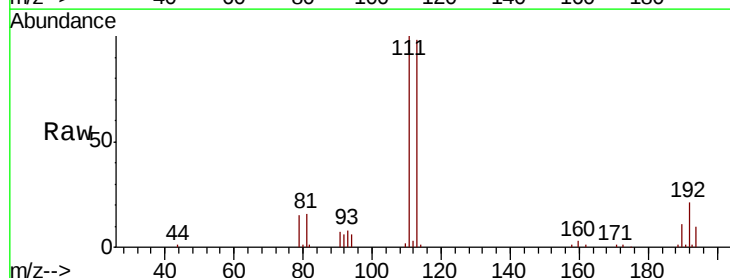
Tgt Ion:113 Resp: 84400

Ion Ratio Lower Upper

113 100

111 102.3 81.7 122.5

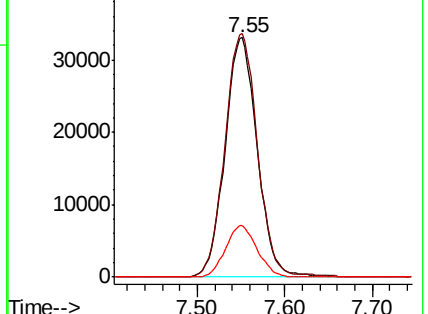
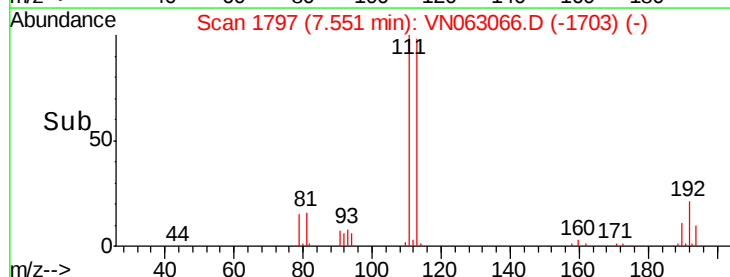
192 21.0 17.5 26.3

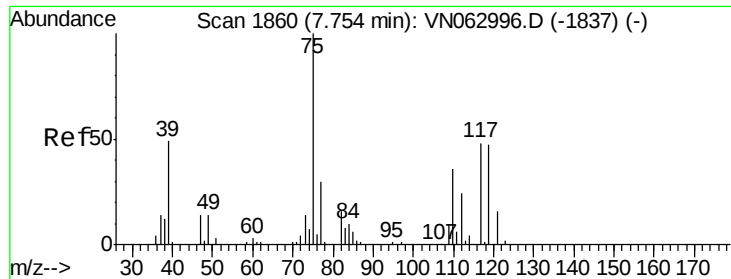


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

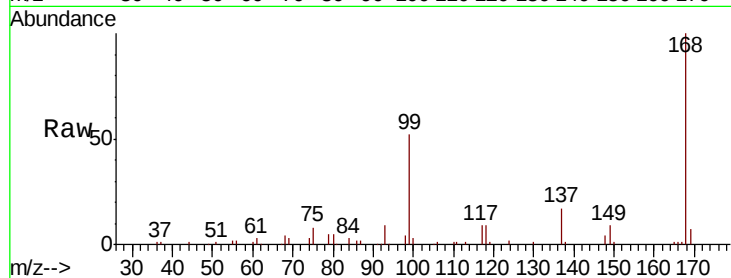




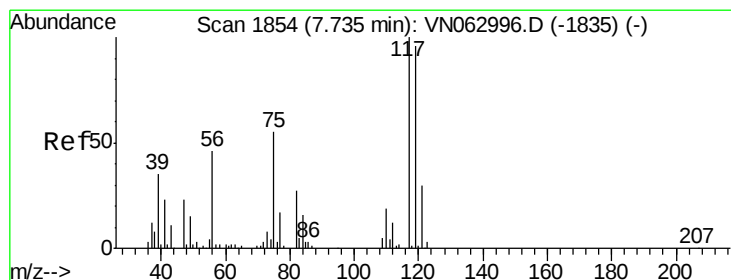
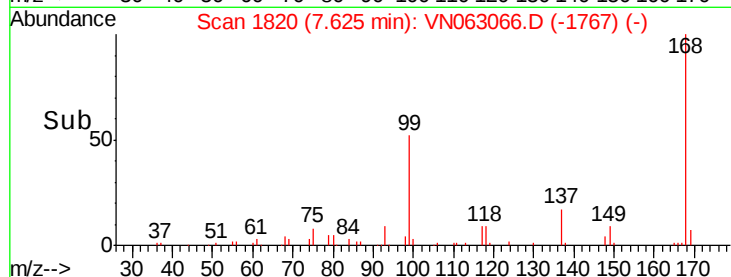
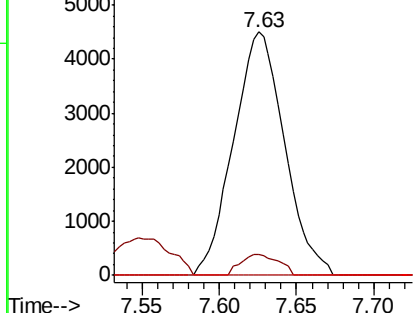
#36
 1,1-Dichloropropene
 Concen: 4.938 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN063066.D
 Acq: 21 Aug 2020 4:30

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-081920

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.4	17.5	52.6#
77	0.0	24.2	36.4#

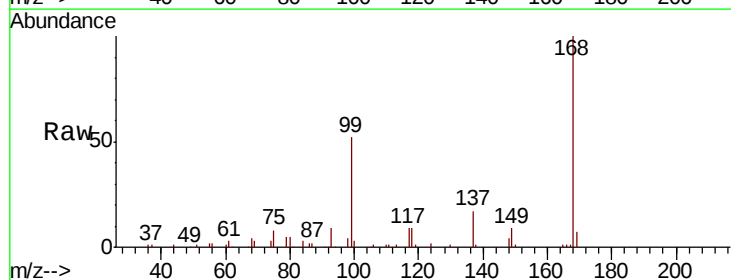


Abundance Ion 74.90 (74.60 to 75.60): VN063066.D (-1767) (-)
 Ion 109.90 (109.60 to 110.60): VN063066.D (-1767) (-)
 Ion 76.90 (76.60 to 77.60): VN063066.D (-1767) (-)

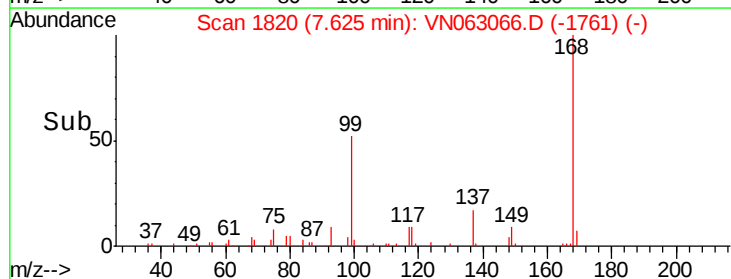
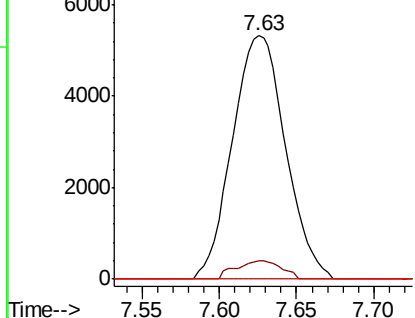


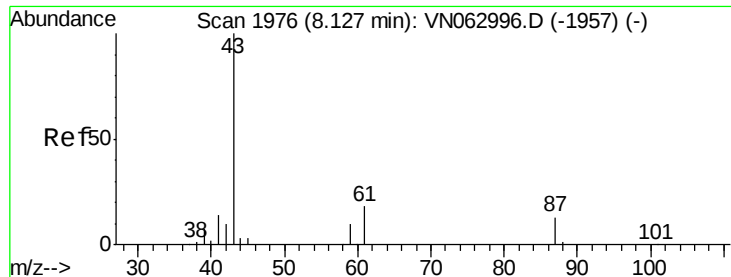
#38
 Carbon Tetrachloride
 Concen: 6.015 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN063066.D
 Acq: 21 Aug 2020 4:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.3	76.2	114.4#
121	0.0	24.2	36.2#



Abundance Ion 116.80 (116.50 to 117.50): VN063066.D (-1761) (-)
 Ion 118.80 (118.50 to 119.50): VN063066.D (-1761) (-)
 Ion 120.80 (120.50 to 121.50): VN063066.D (-1761) (-)





#43

Isopropyl Acetate

Concen: 10.303 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

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ClientSampleId :

OK-02-081920

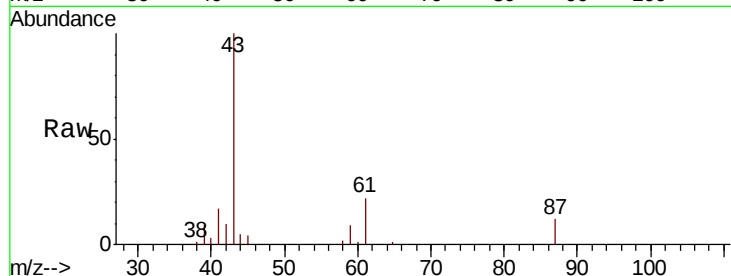
Tot Ion: 43 Resp: 33470

Ion Ratio Lower Upper

43 100

61 20.1 22.6 33.8#

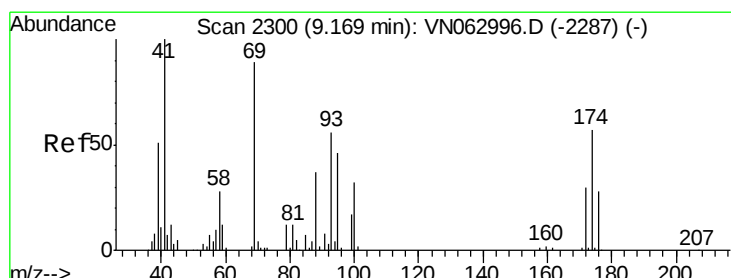
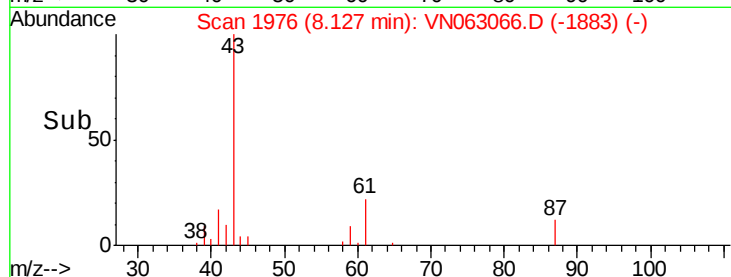
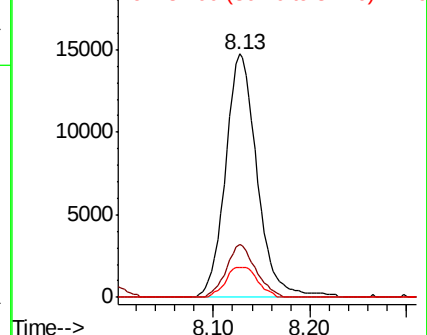
87 12.4 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VN063066.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN063066.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN063066.D (-1957) (-)



#48

Methyl methacrylate

Concen: 1.177 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

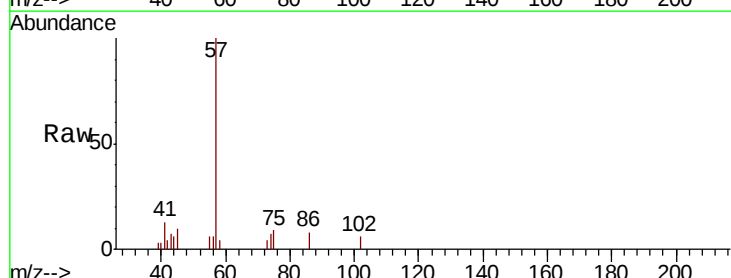
Tgt Ion: 41 Resp: 1809

Ion Ratio Lower Upper

41 100

69 0.0 74.2 111.4#

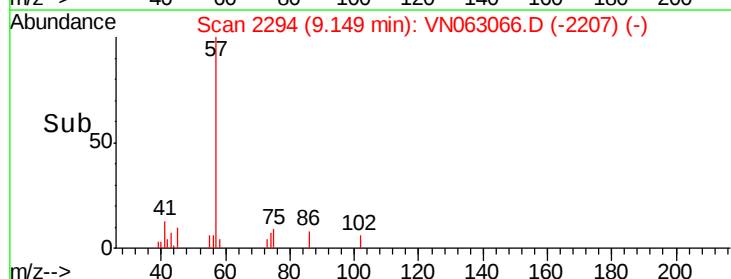
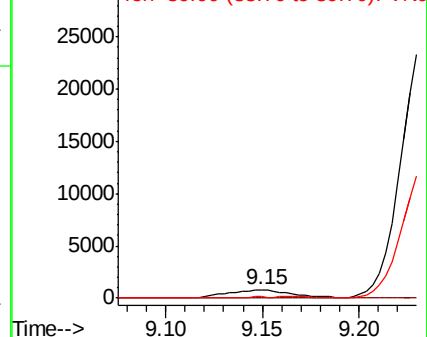
39 0.0 42.5 63.7#

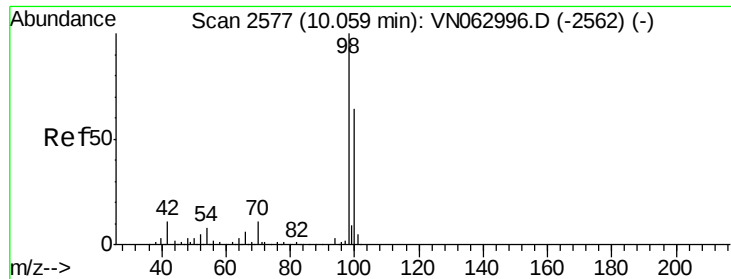


Abundance Ion 41.00 (40.70 to 41.70): VN063066.D (-2287) (-)

Ion 69.00 (68.70 to 69.70): VN063066.D (-2287) (-)

Ion 39.00 (38.70 to 39.70): VN063066.D (-2287) (-)





#50

Toluene-d8

Concen: 54.548 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

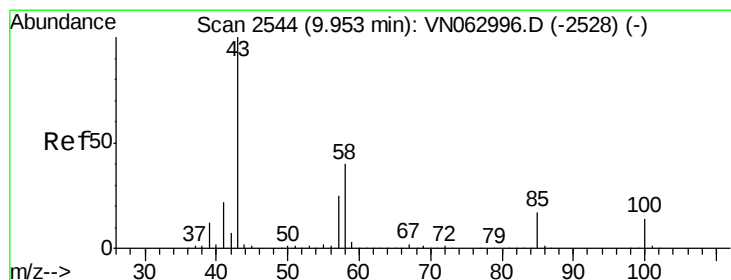
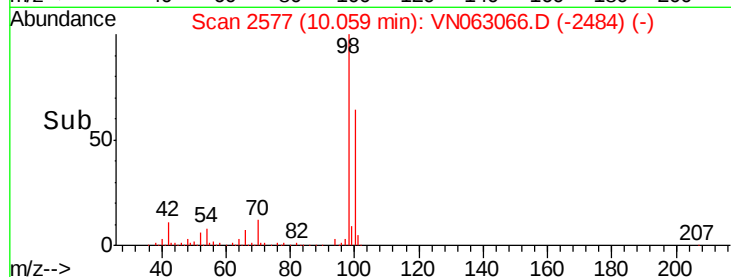
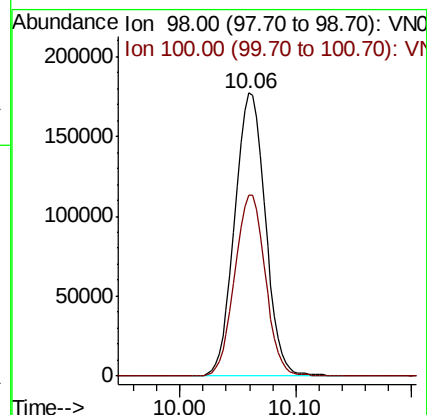
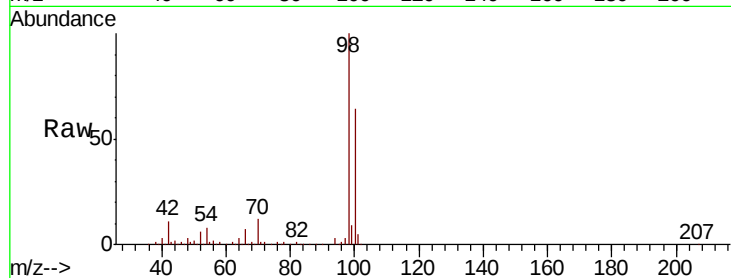
OK-02-081920

Tot Ion: 98 Resp: 324212

Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.608 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN063066.D

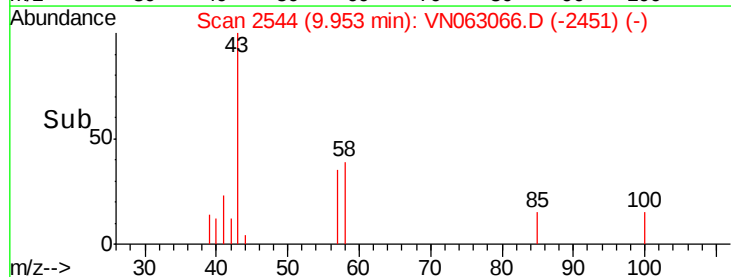
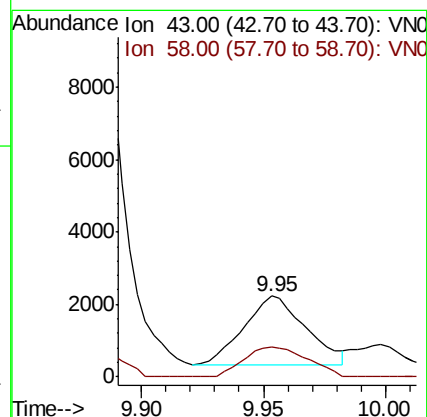
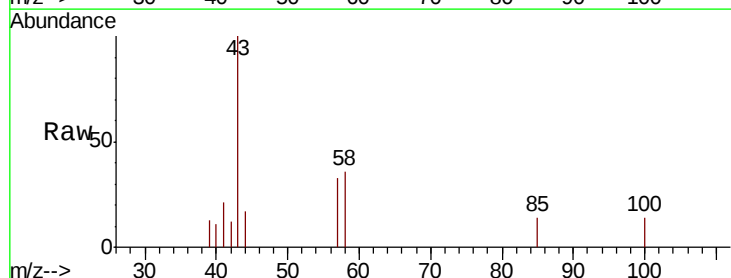
Acq: 21 Aug 2020 4:30

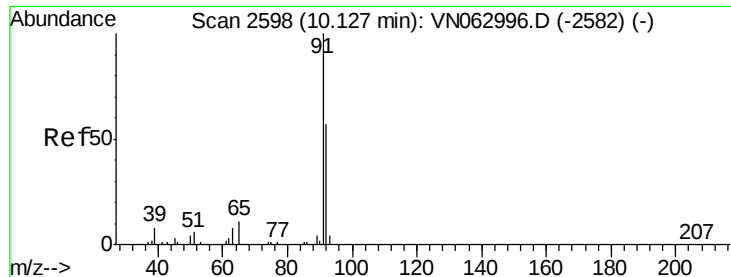
Tgt Ion: 43 Resp: 3302

Ion Ratio Lower Upper

43 100

58 45.2 32.2 48.2





#52

Toluene

Concen: 0.309 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampled :

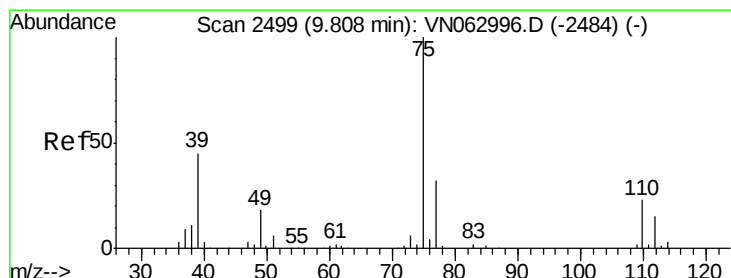
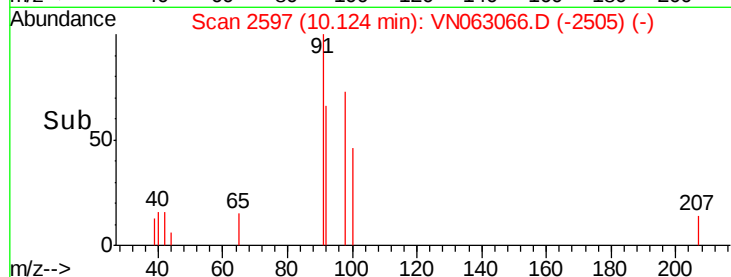
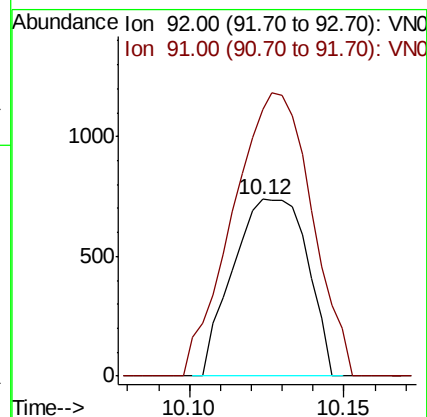
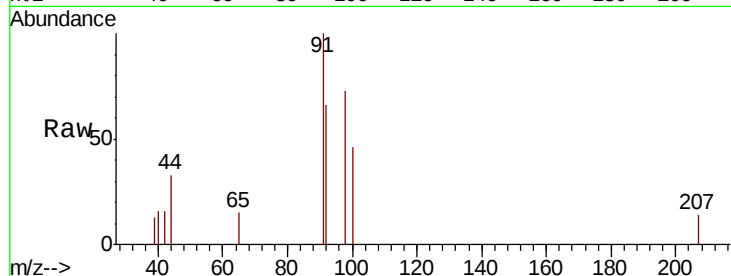
OK-02-081920

Tot Ion: 92 Resp: 1237

Ion Ratio Lower Upper

92 100

91 169.8 139.2 208.8



#54

cis-1,3-Dichloropropene

Concen: 5.198 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

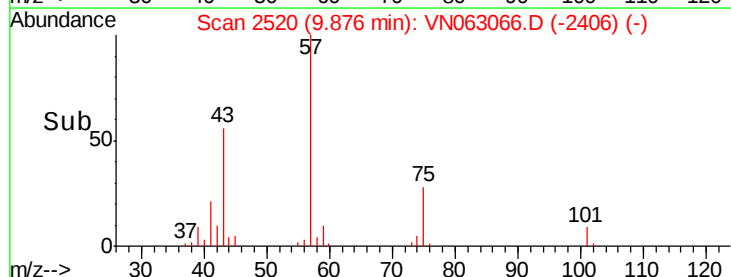
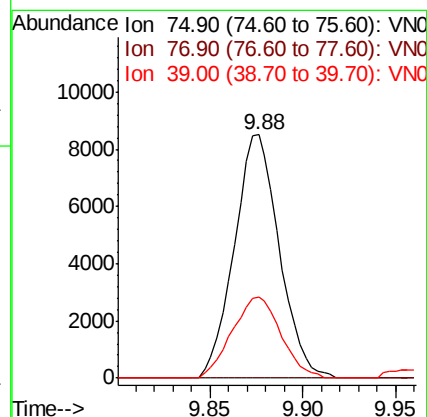
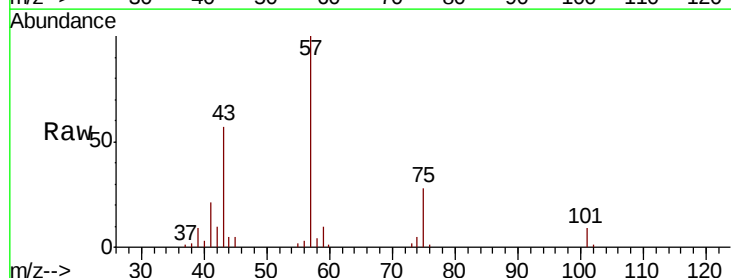
Tgt Ion: 75 Resp: 14314

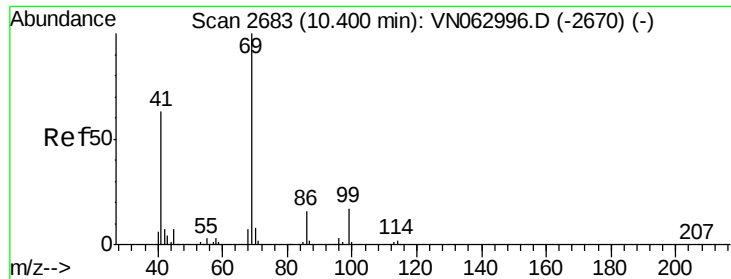
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

39 33.5 35.7 53.5#





#56

Ethyl methacrylate

Concen: 2.177 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

OK-02-081920

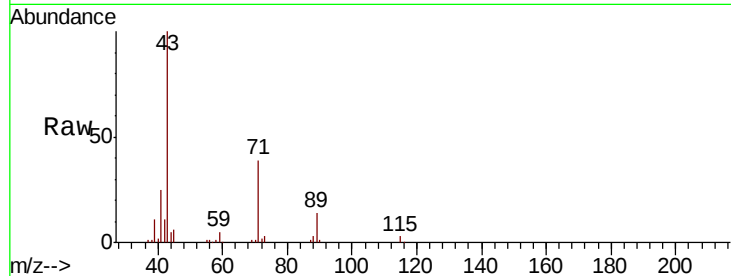
Tot Ion: 69 Resp: 1194

Ion Ratio Lower Upper

69 100

41 2665.7 50.2 75.2#

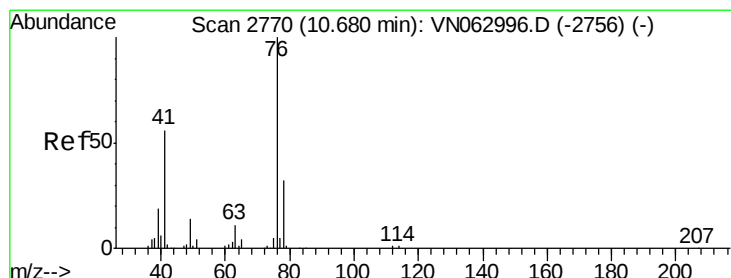
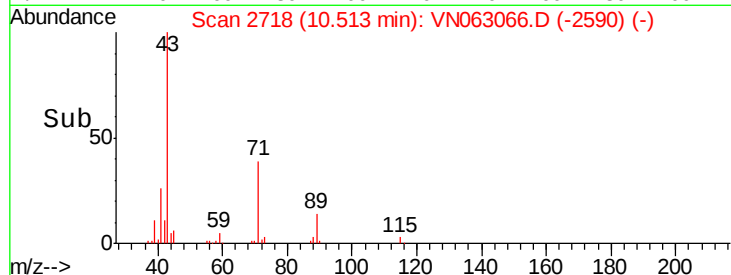
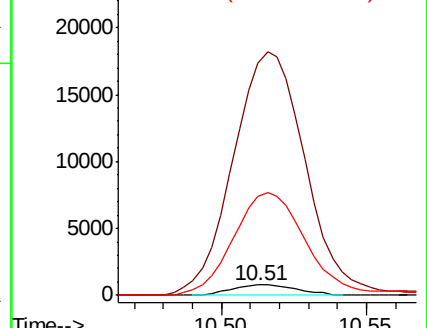
39 1136.4 24.2 36.4#



Abundance Ion 69.00 (68.70 to 69.70): VN063066.D (-2590) (-)

Ion 41.00 (40.70 to 41.70): VN063066.D (-2590) (-)

Ion 39.00 (38.70 to 39.70): VN063066.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 0.807 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN063066.D

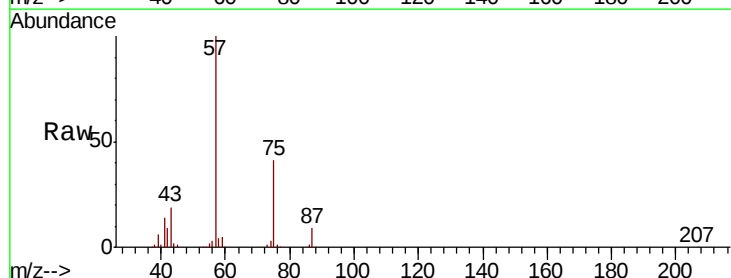
Acq: 21 Aug 2020 4:30

Tgt Ion: 76 Resp: 2294

Ion Ratio Lower Upper

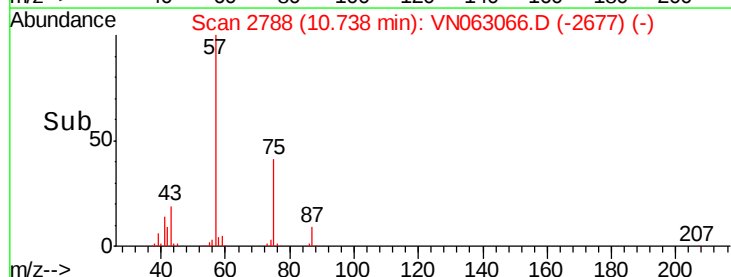
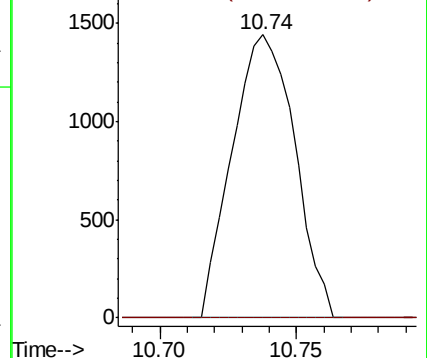
76 100

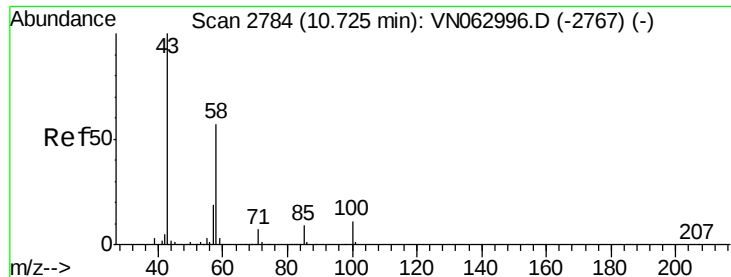
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN063066.D (-2677) (-)

Ion 77.90 (77.60 to 78.60): VN063066.D (-2677) (-)

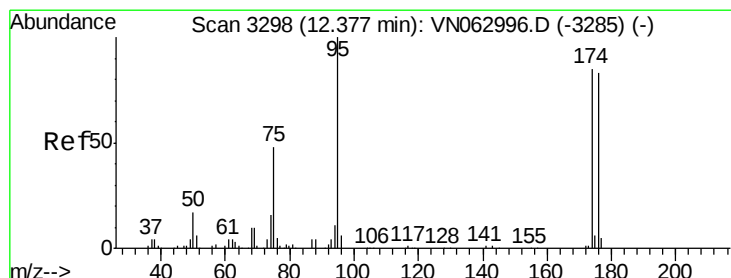
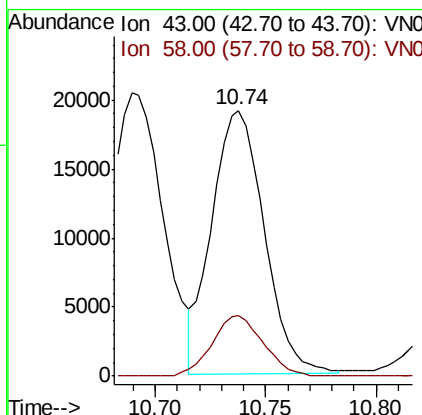
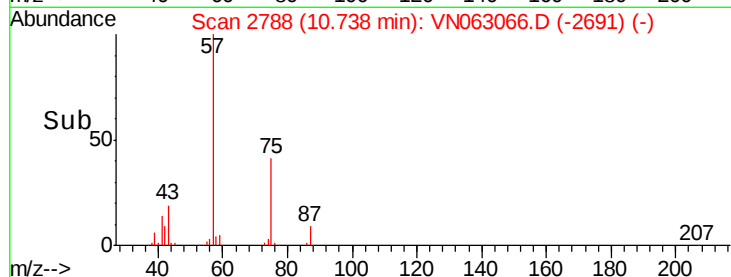
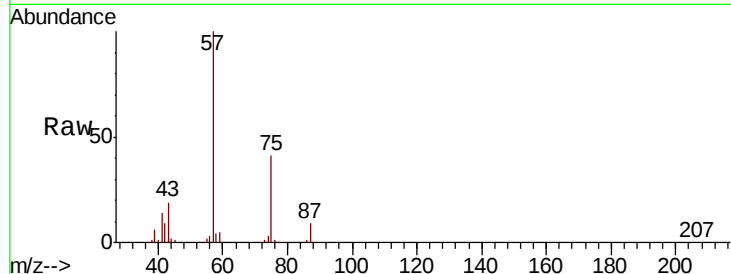




#59
2-Hexanone
Concen: 21.922 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN063066.D
Acq: 21 Aug 2020 4:30

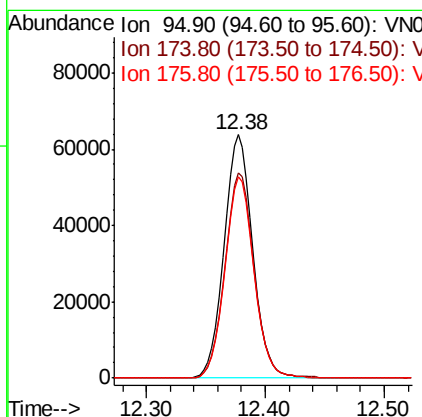
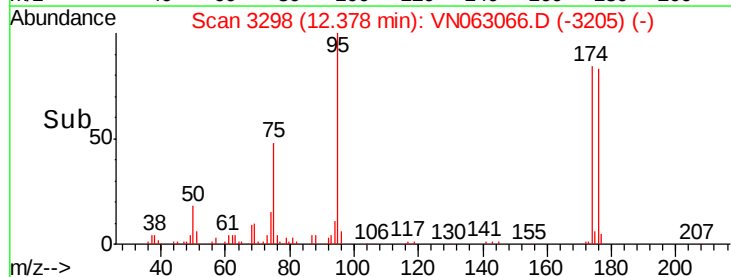
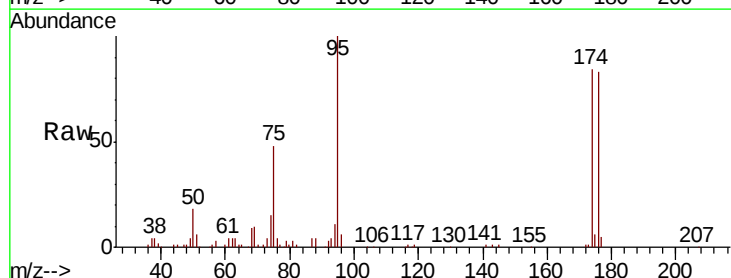
Instrument :
MSVOA_N
ClientSampleId :
OK-02-081920

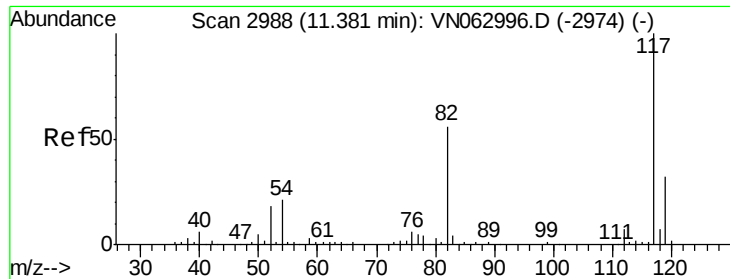
Tot Ion: 43 Resp: 31400
Ion Ratio Lower Upper
43 100
58 22.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 50.672 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063066.D
Acq: 21 Aug 2020 4:30

Tgt Ion: 95 Resp: 106281
Ion Ratio Lower Upper
95 100
174 86.2 0.0 170.8
176 84.0 0.0 164.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

OK-02-081920

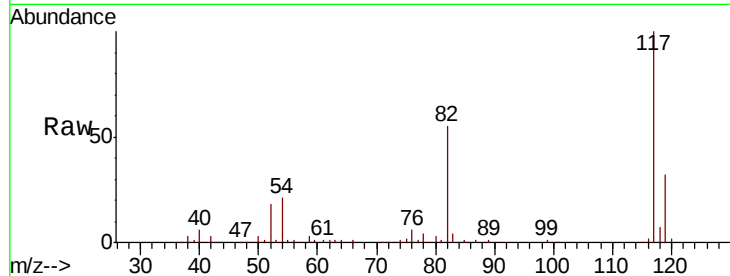
Tot Ion:117 Resp: 264069

Ion Ratio Lower Upper

117 100

82 54.8 44.5 66.7

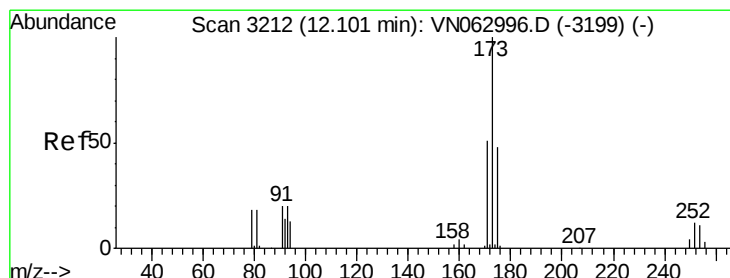
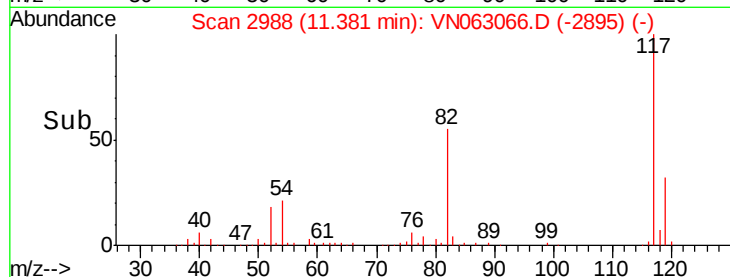
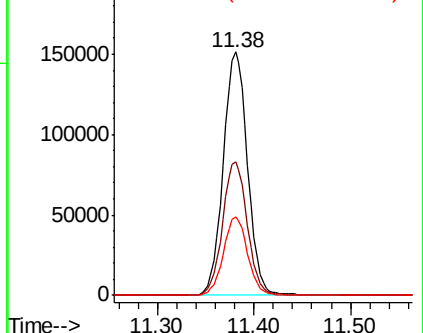
119 32.1 25.5 38.3



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: 0.608 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

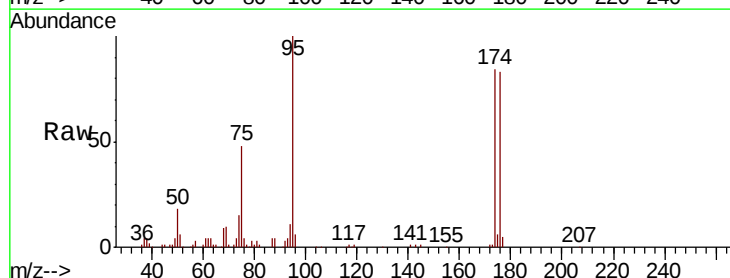
Tgt Ion:173 Resp: 998

Ion Ratio Lower Upper

173 100

175 567.9 24.3 72.8#

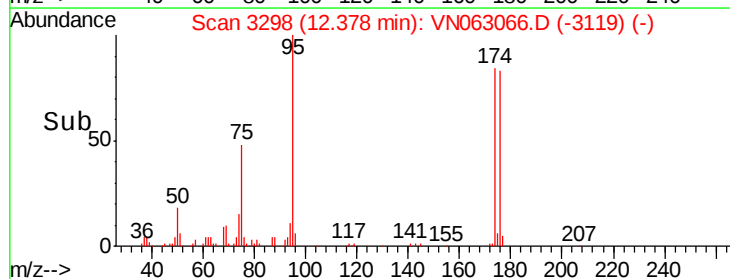
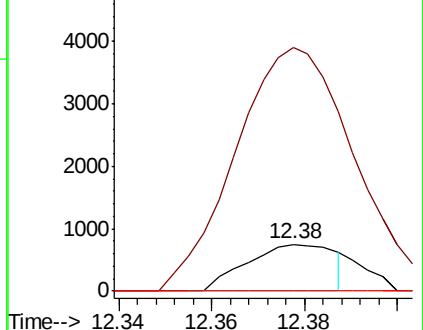
254 0.0 0.0 0.0

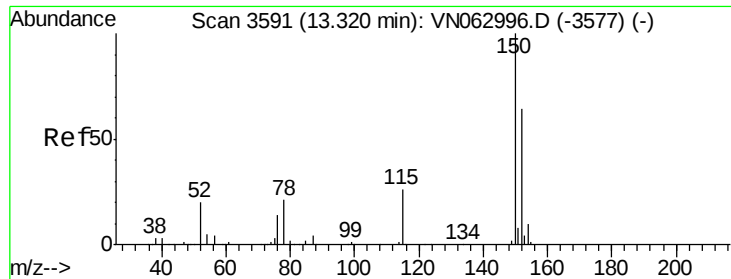


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN063066.D

Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampled :

OK-02-081920

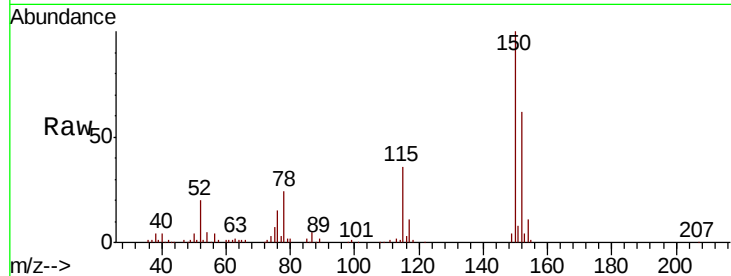
Tot Ion:152 Resp: 90924

Ion Ratio Lower Upper

152 100

115 57.8 28.7 86.3

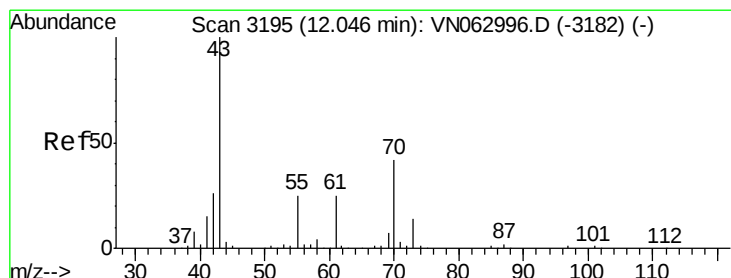
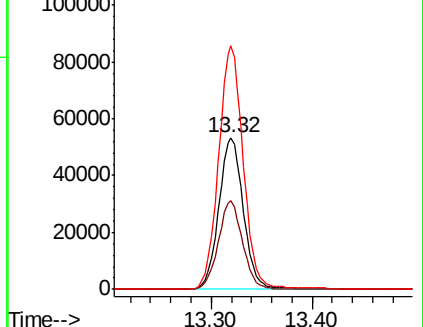
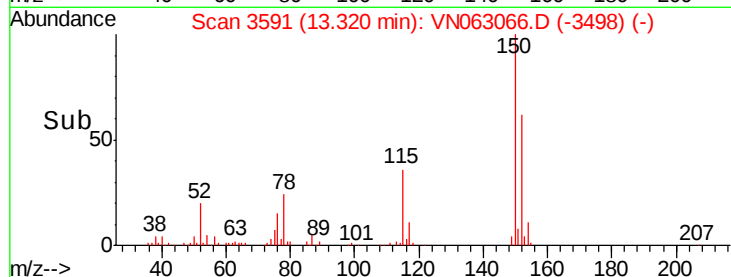
150 159.6 0.0 348.8



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: 0.418 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN063066.D

Acq: 21 Aug 2020 4:30

Tgt Ion: 43 Resp: 933

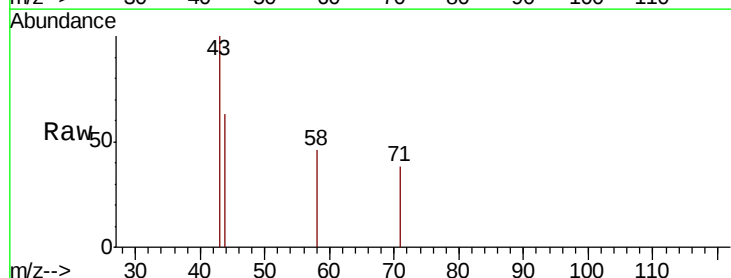
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 20.2 30.2#

61 0.0 19.9 29.9#

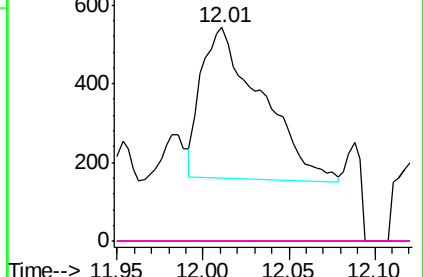
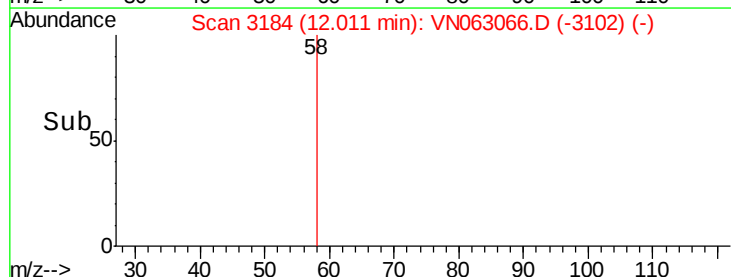


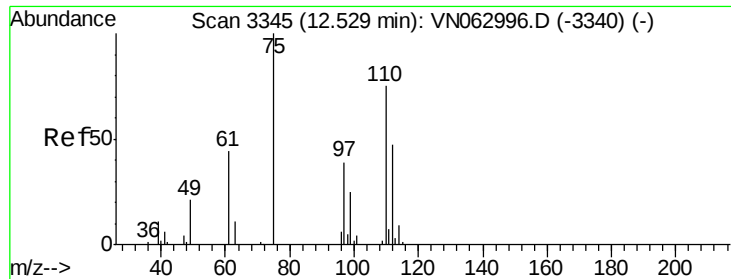
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

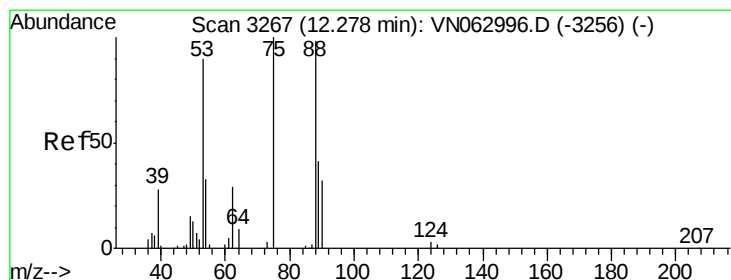
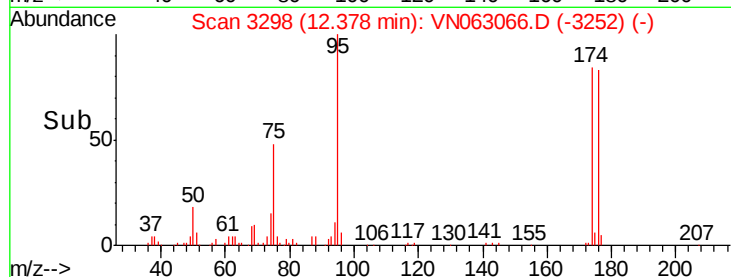
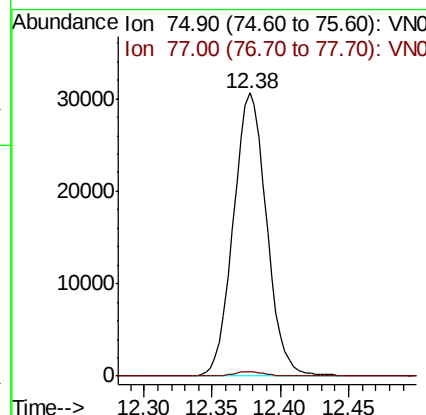
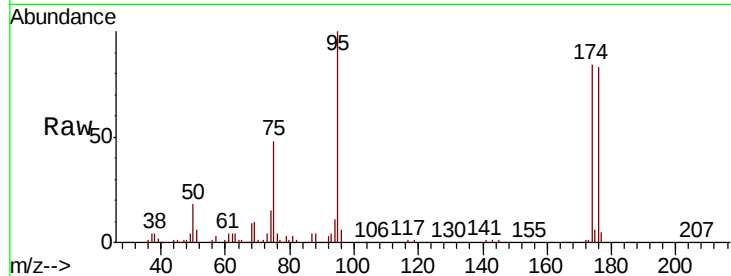




#76
 1,2,3-Trichloropropane
 Concen: 29.364 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN063066.D
 Acq: 21 Aug 2020 4:30

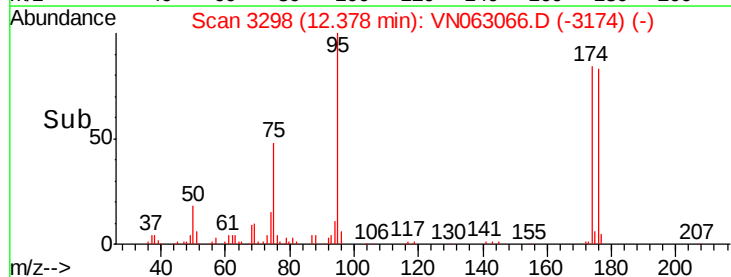
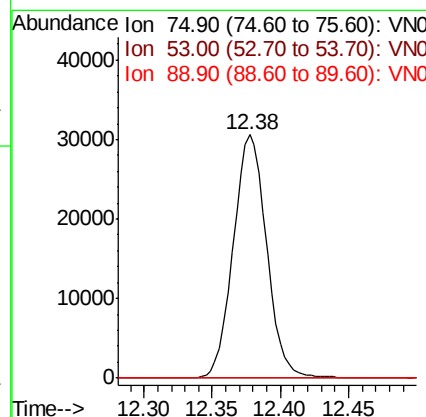
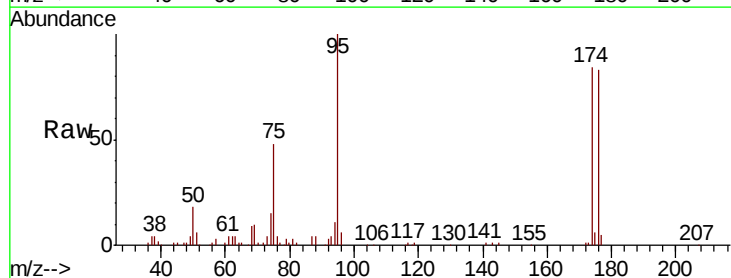
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-081920

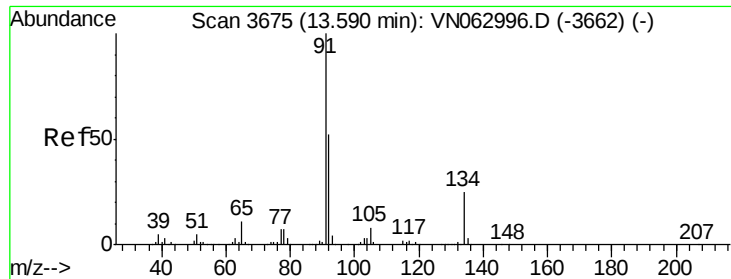
Tot Ion: 75 Resp: 51896
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.646 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN063066.D
 Acq: 21 Aug 2020 4:30

Tgt Ion: 75 Resp: 51896
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.2 103.8#
 89 0.0 34.2 51.4#





#89

n-Butylbenzene

Concen: 2.782 ug/l

RT: 13.32 min Scan# 3592

Delta R.T. -0.27 min

Lab File: VN063066.D

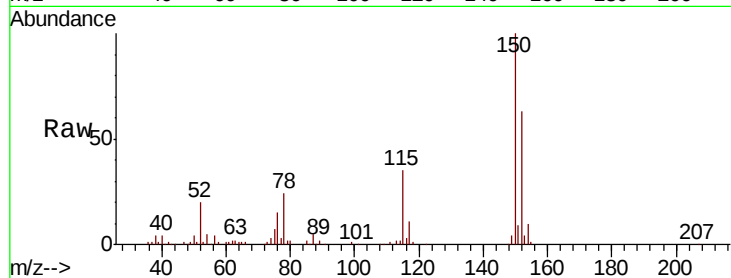
Acq: 21 Aug 2020 4:30

Instrument :

MSVOA_N

ClientSampleId :

OK-02-081920



Tot Ion:	91	Resp:	61
Ion	Ratio	Lower	Upper
91	100		
92	0.0	25.9	77.6#
134	0.0	12.4	37.0#

