

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062693.D
 Acq On : 31 Jul 2020 18:19
 Operator : JC/MD
 Sample : L3507-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-01-073020

Quant Time: Aug 01 06:07:23 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	122780	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	236306	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	230324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	84541	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	111911	58.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.34%	
35) Dibromofluoromethane	7.55	113	77227	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	10.06	98	305040	49.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.50%	
62) 4-Bromofluorobenzene	12.38	95	110938	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	

Target Compounds

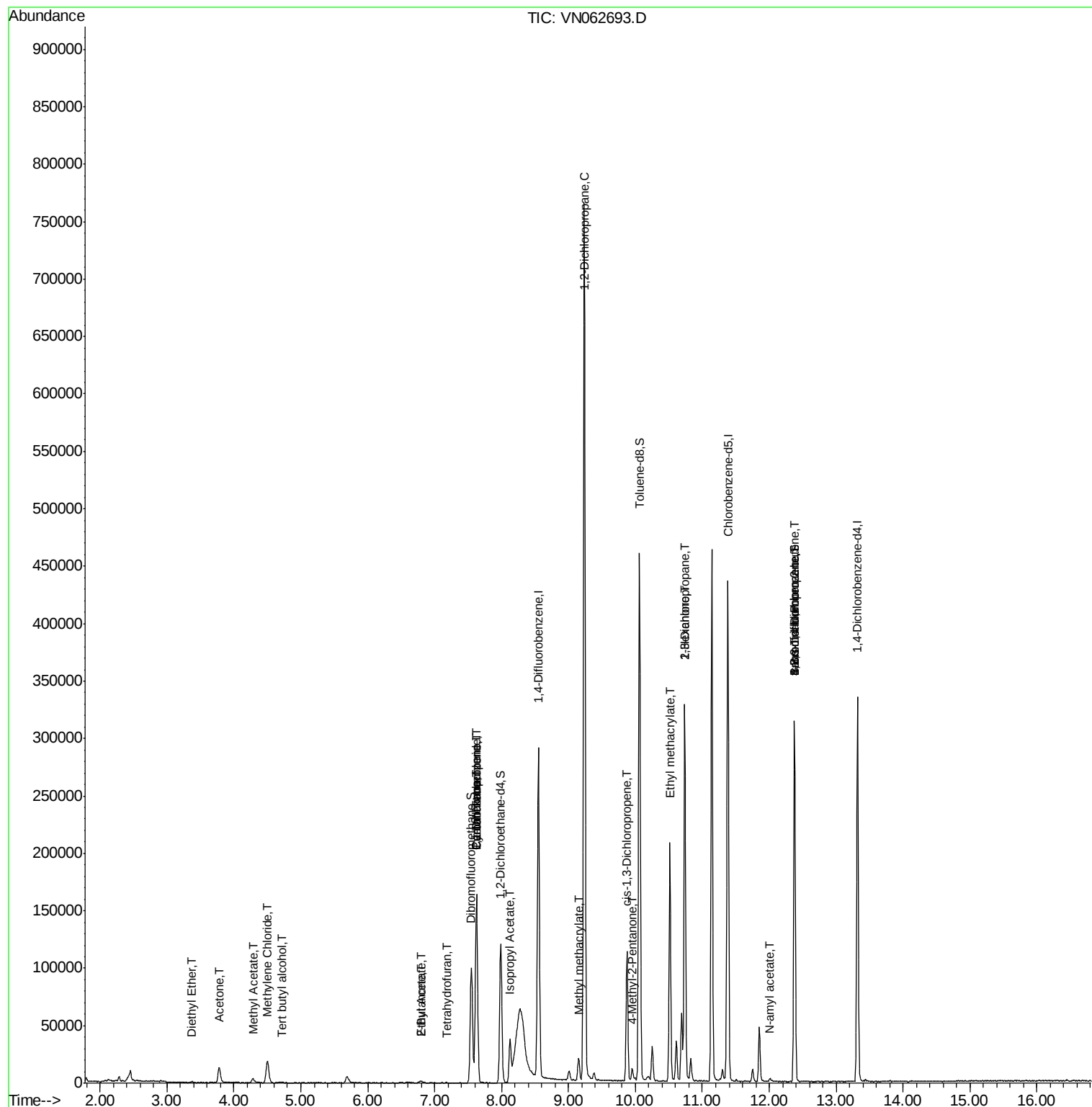
						Qvalue
8) Diethyl Ether	3.37	74	292	0.309	ug/l	98
11) Tert butyl alcohol	4.72	59	441	1.453	ug/l #	73
16) Acetone	3.78	43	23607	32.891	ug/l	97
18) Methyl Acetate	4.28	43	7663	4.217	ug/l	95
20) Methylene Chloride	4.50	84	13653	7.931	ug/l	96
25) 2-Butanone	6.80	43	2346	2.146	ug/l	96
29) Tetrahydrofuran	7.17	42	156	0.211	ug/l #	38
31) Cyclohexane	7.62	56	3055	1.087	ug/l #	11
36) 1,1-Dichloropropene	7.63	75	11069	4.395	ug/l #	52
37) Ethyl Acetate	6.80	43	2346	0.864	ug/l #	69
38) Carbon Tetrachloride	7.63	117	13718	5.666	ug/l #	16
43) Isopropyl Acetate	8.13	43	46867	10.708	ug/l #	88
45) 1,2-Dichloropropane	9.23	63	653	0.305	ug/l #	44
48) Methyl methacrylate	9.14	41	3192	1.534	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	6447	2.462	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	18816	5.876	ug/l #	66
56) Ethyl methacrylate	10.52	69	944	2.064	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3141	0.998	ug/l #	42
59) 2-Hexanone	10.74	43	48932	26.833	ug/l #	54
71) Bromoform	12.38	173	746	0.547	ug/l #	1
74) N-amyl acetate	12.00	43	1743	0.584	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	60354	28.047	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	60354	78.077	ug/l #	12

(#) = 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: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

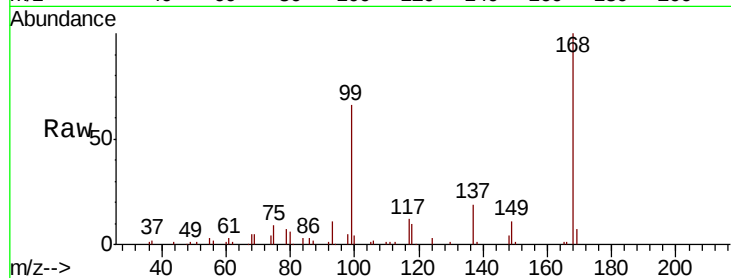
SU-01-073020

Tot Ion:168 Resp: 122780

Ion Ratio Lower Upper

168 100

99 66.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

60000

50000

40000

30000

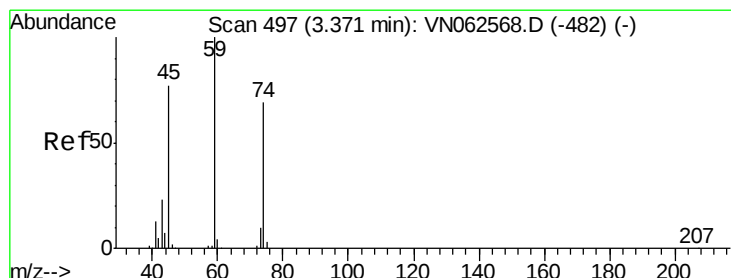
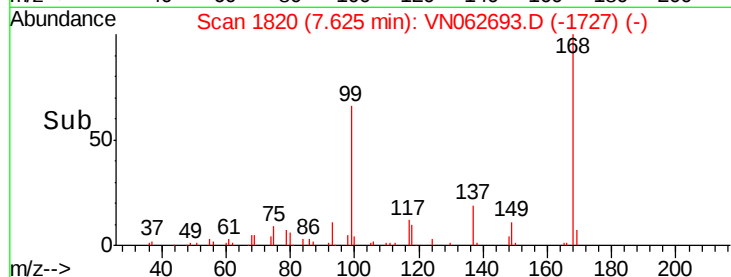
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#8

Diethyl Ether

Concen: 0.309 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN062693.D

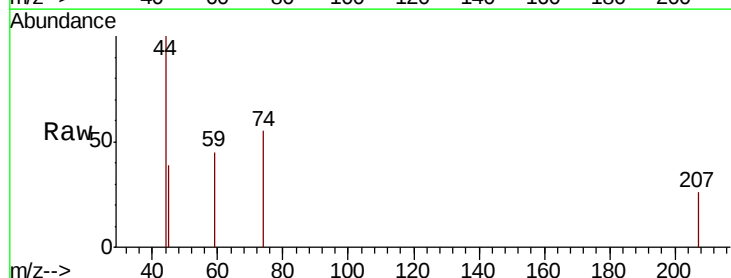
Acq: 31 Jul 2020 18:19

Tgt Ion: 74 Resp: 292

Ion Ratio Lower Upper

74 100

45 113.0 55.3 165.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

300

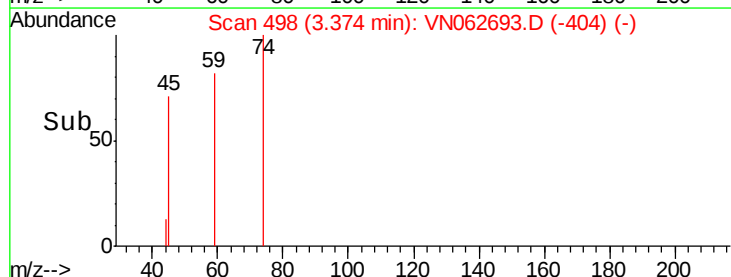
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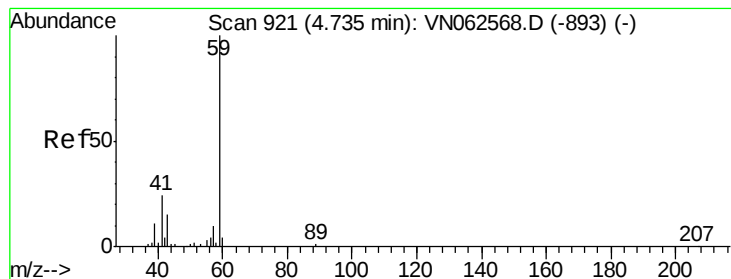
100

0

3.36 3.38 3.40

Time-->





#11

Tert butyl alcohol

Concen: 1.453 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

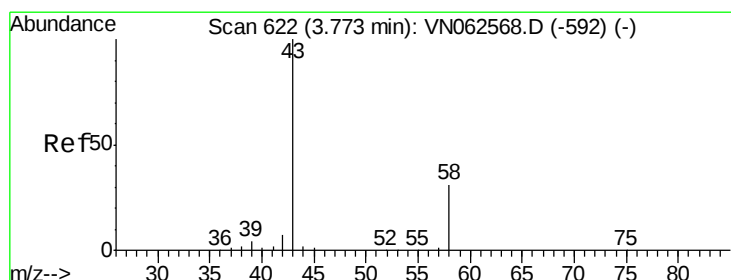
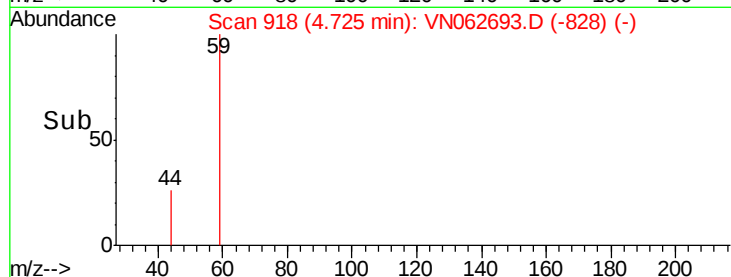
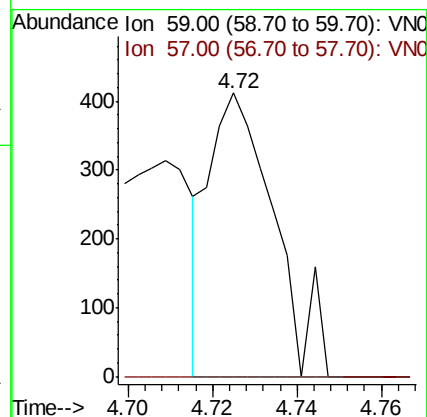
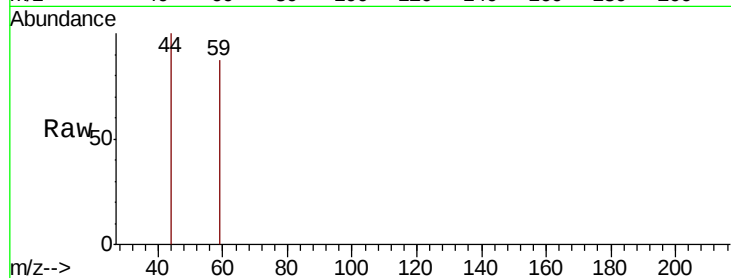
SU-01-073020

Tot Ion: 59 Resp: 441

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#16

Acetone

Concen: 32.891 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062693.D

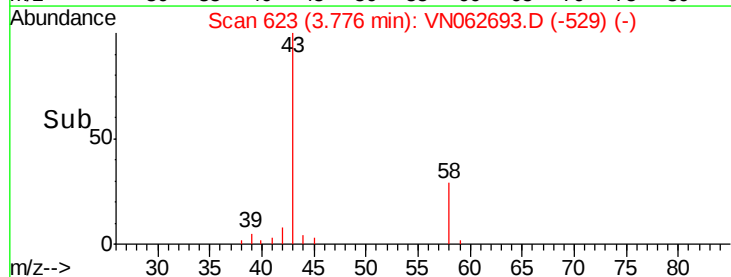
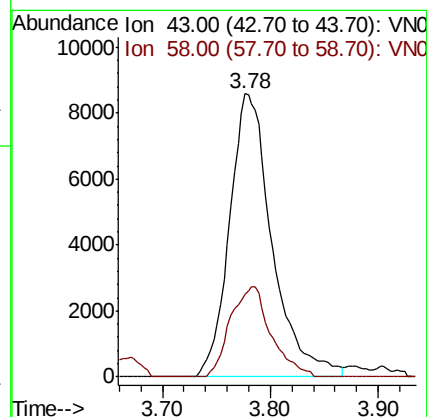
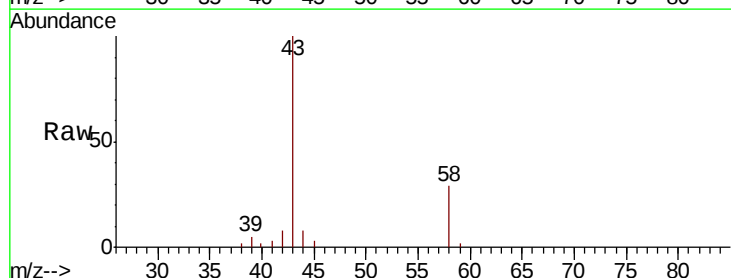
Acq: 31 Jul 2020 18:19

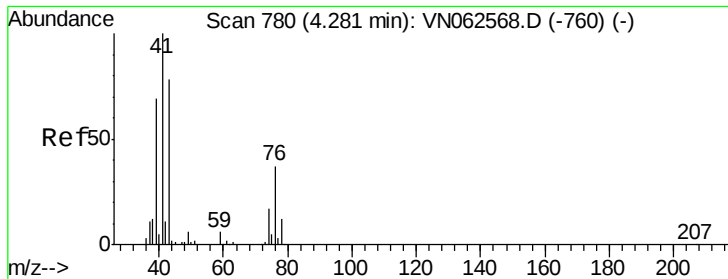
Tgt Ion: 43 Resp: 23607

Ion Ratio Lower Upper

43 100

58 28.9 24.6 37.0

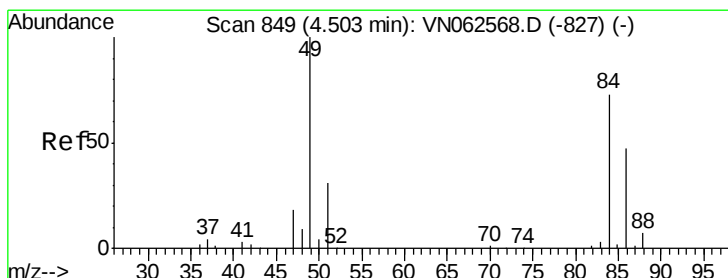
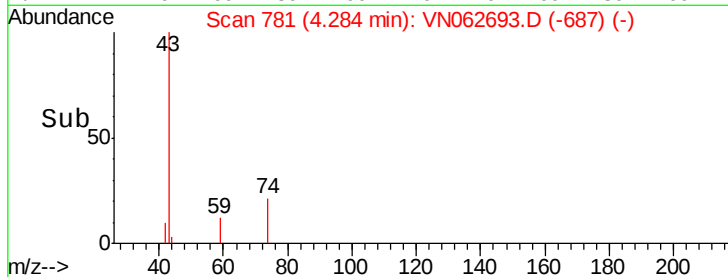
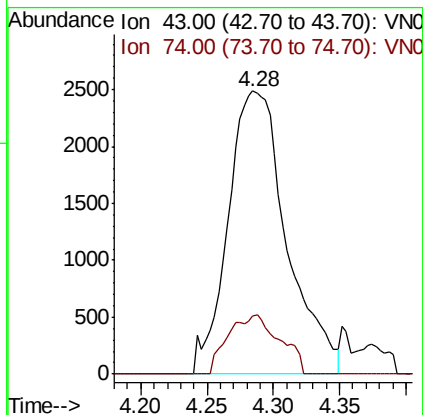
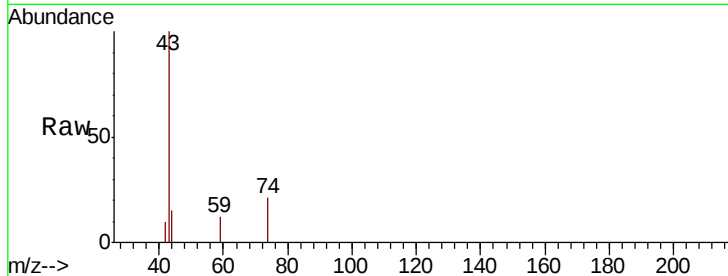




#18
Methyl Acetate
Concen: 4.217 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

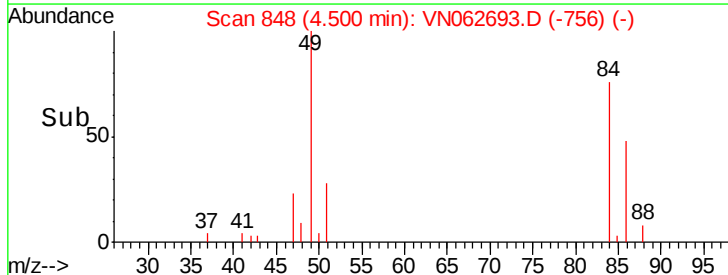
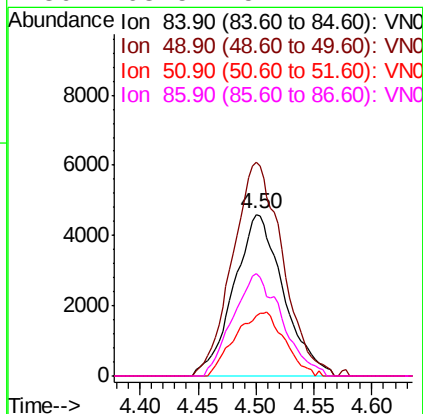
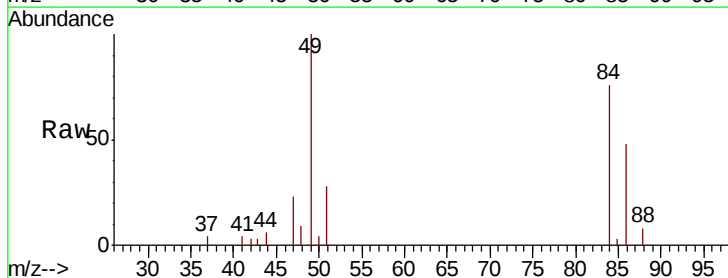
Instrument :
MSVOA_N
ClientSampled :
SU-01-073020

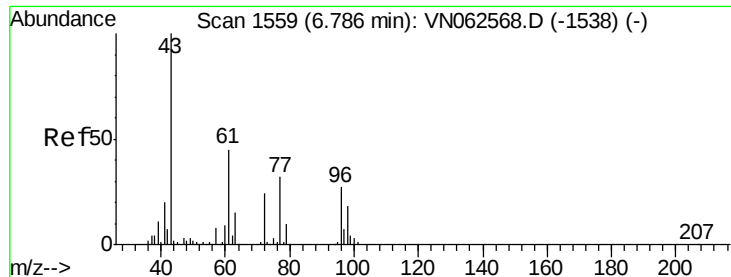
Tot Ion: 43 Resp: 7663
Ion Ratio Lower Upper
43 100
74 18.4 16.6 24.8



#20
Methylene Chloride
Concen: 7.931 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Tgt Ion: 84 Resp: 13653
Ion Ratio Lower Upper
84 100
49 132.3 109.4 164.0
51 37.2 33.6 50.4
86 63.5 51.4 77.2

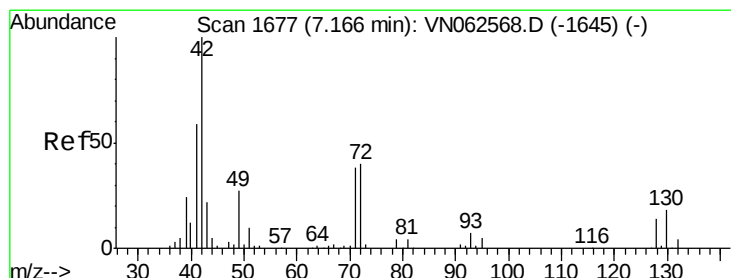
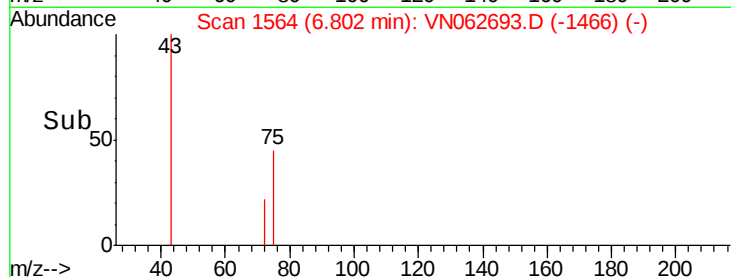
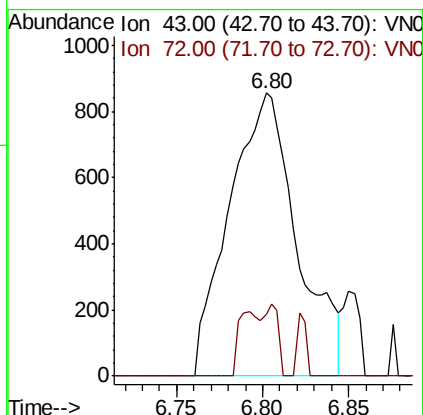
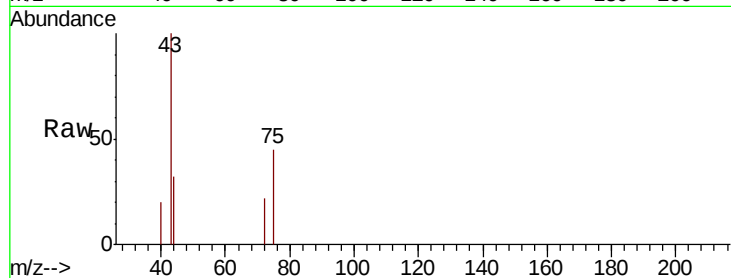




#25
2-Butanone
Concen: 2.146 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

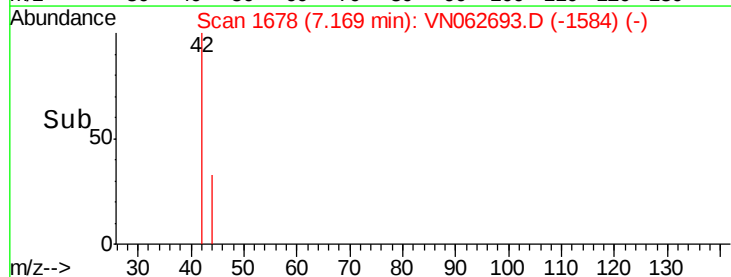
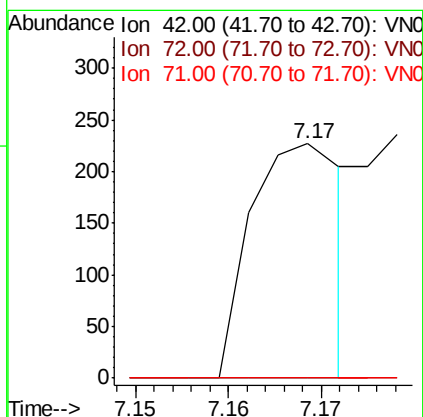
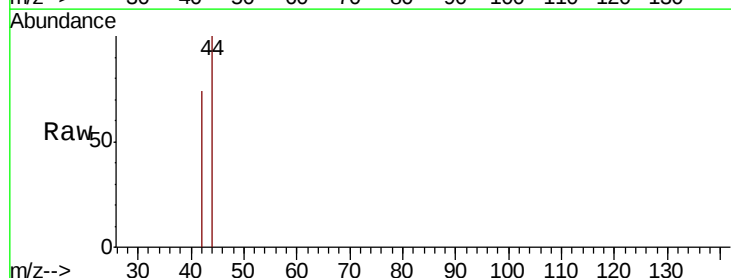
Instrument :
MSVOA_N
ClientSampleId :
SU-01-073020

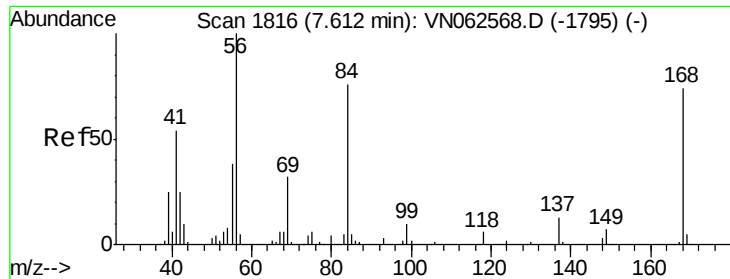
Tot Ion: 43 Resp: 2346
Ion Ratio Lower Upper
43 100
72 22.0 19.0 28.6



#29
Tetrahydrofuran
Concen: 0.211 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Tgt Ion: 42 Resp: 156
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#

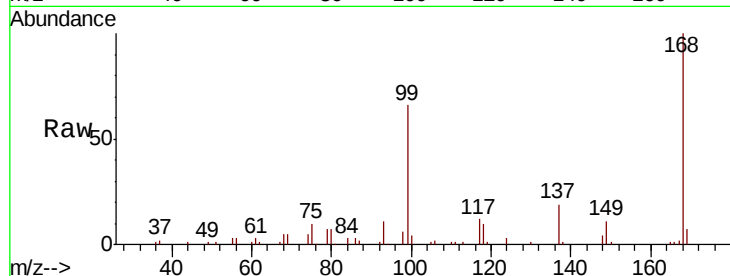




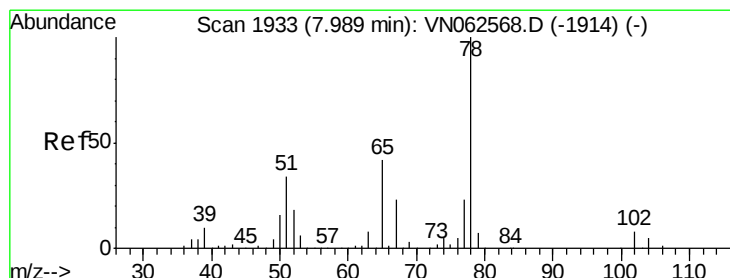
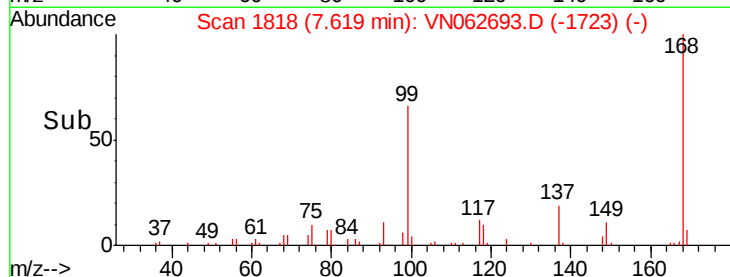
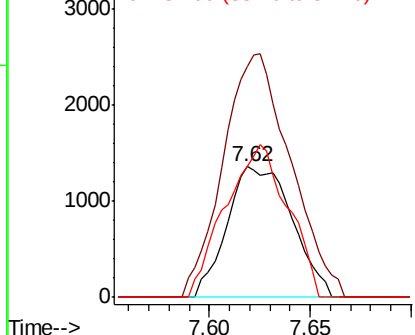
#31
Cyclohexane
Concen: 1.087 ug/l
RT: 7.62 min Scan# 1816
Delta R.T. 0.01 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Instrument :
MSVOA_N
ClientSampleId :
SU-01-073020

Tot Ion: 56 Resp: 3055
Ion Ratio Lower Upper
56 100
69 163.3 25.3 37.9#
84 100.1 61.0 91.4#

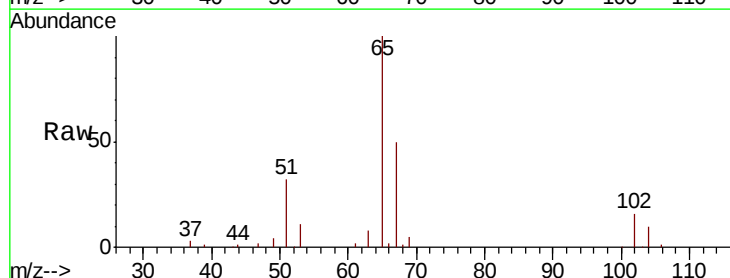


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

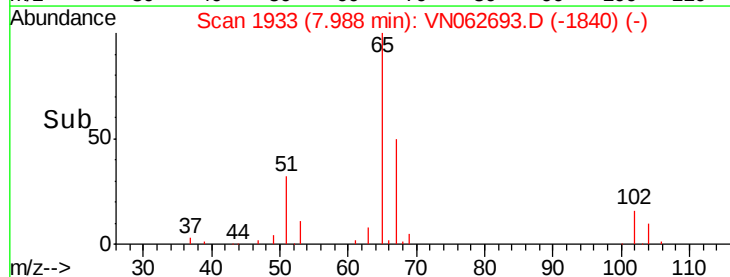
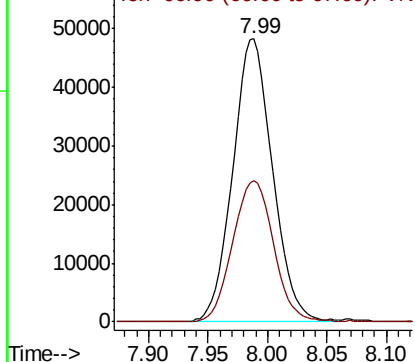


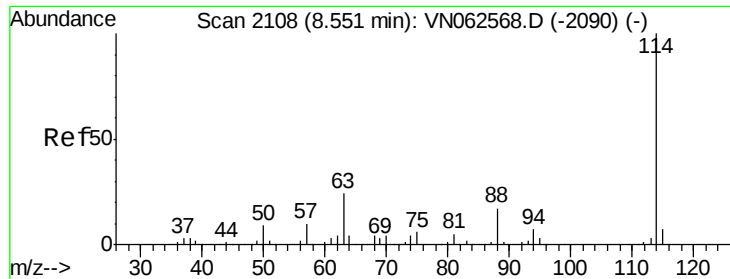
#33
1,2-Dichloroethane-d4
Concen: 58.674 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Tgt Ion: 65 Resp: 111911
Ion Ratio Lower Upper
65 100
67 51.2 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

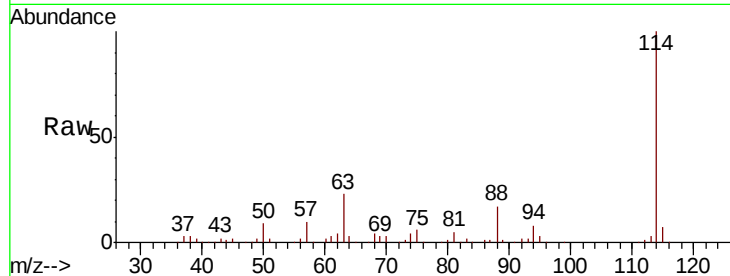




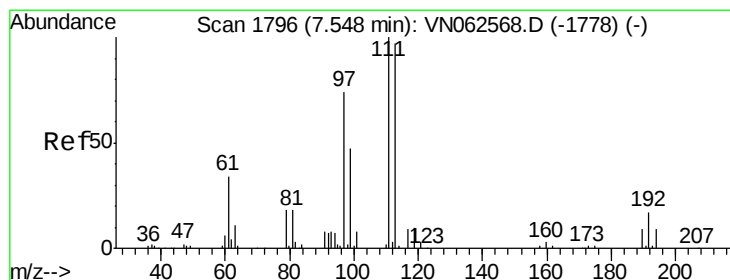
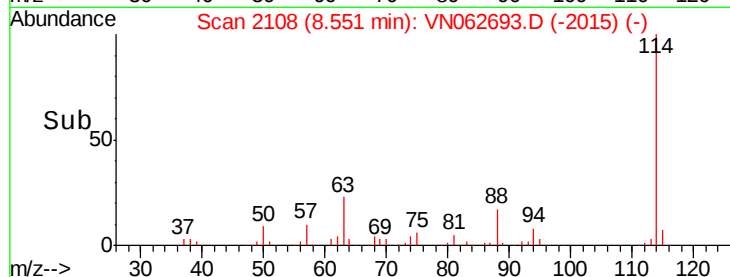
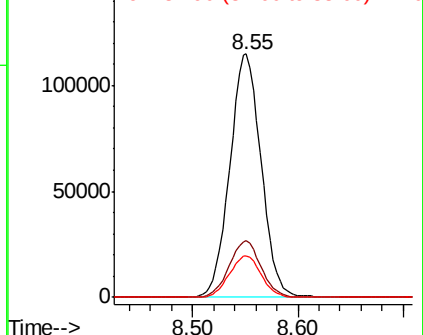
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Instrument :
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ClientSampleId :
SU-01-073020

Tot Ion:114 Resp: 236306
Ion Ratio Lower Upper
114 100
63 23.3 0.0 48.4
88 17.2 0.0 33.8

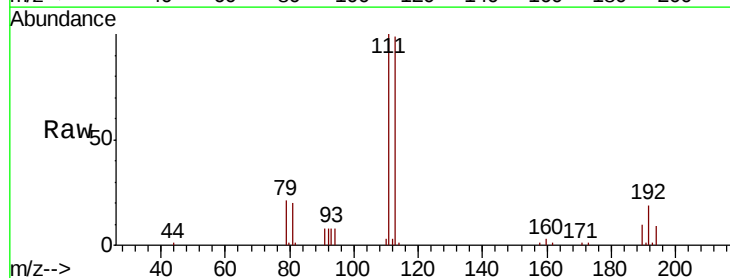


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

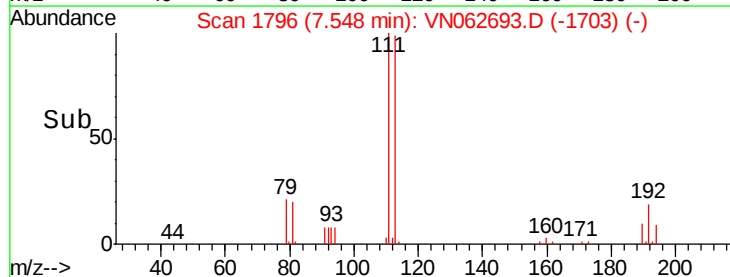
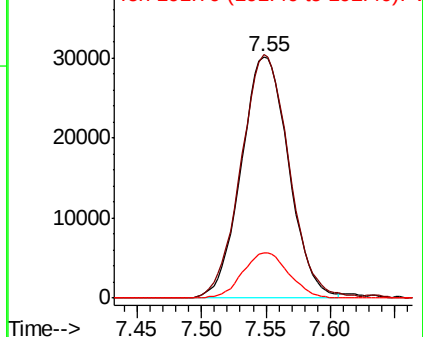


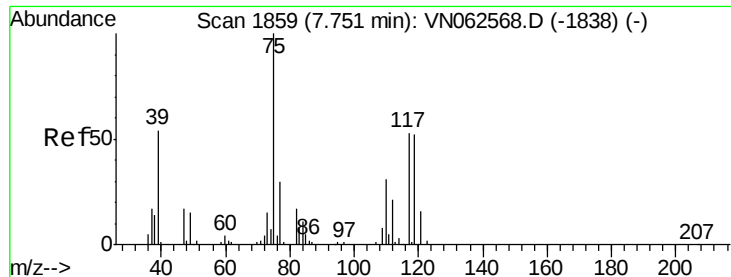
#35
Dibromofluoromethane
Concen: 49.753 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Tgt Ion:113 Resp: 77227
Ion Ratio Lower Upper
113 100
111 102.3 82.7 124.1
192 18.2 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

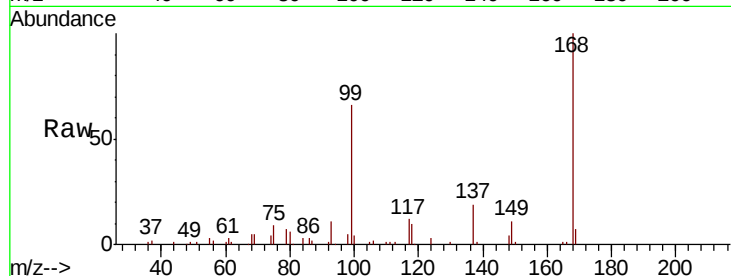




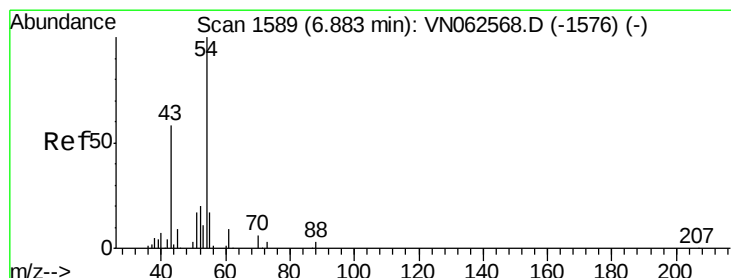
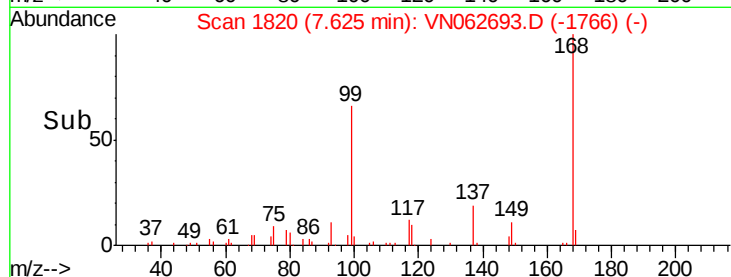
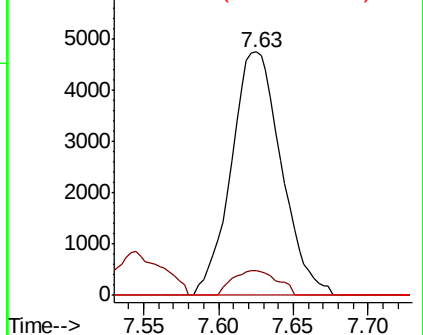
#36
 1,1-Dichloropropene
 Concen: 4.395 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-01-073020

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.0	48.0#
77	0.0	24.6	36.8#

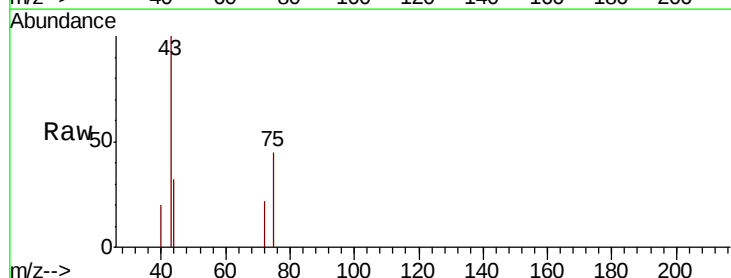


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

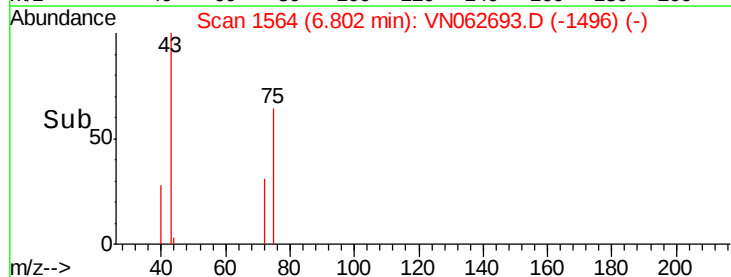
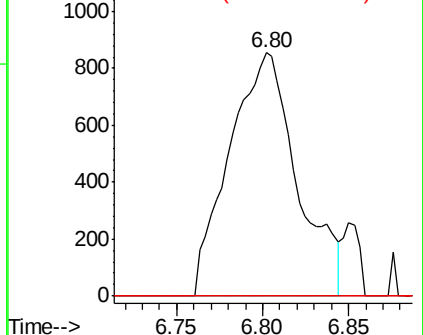


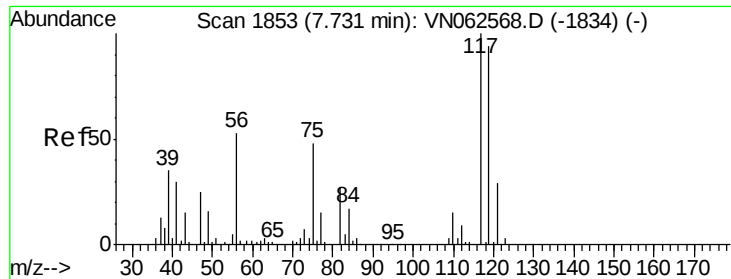
#37
 Ethyl Acetate
 Concen: 0.864 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.08 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	7.7	11.5#



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: 5.666 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

SU-01-073020

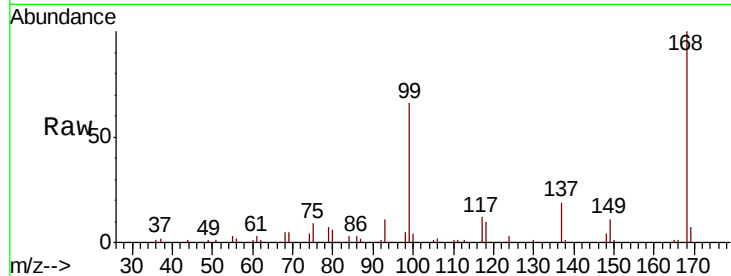
Tot Ion:117 Resp: 13718

Ion Ratio Lower Upper

117 100

119 4.1 74.8 112.2#

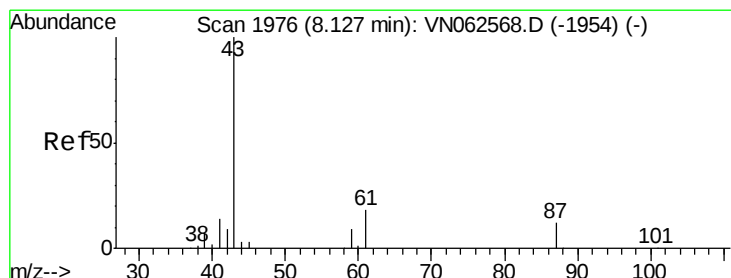
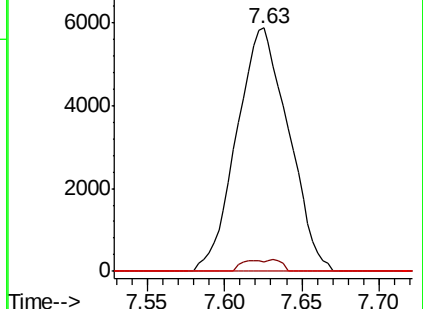
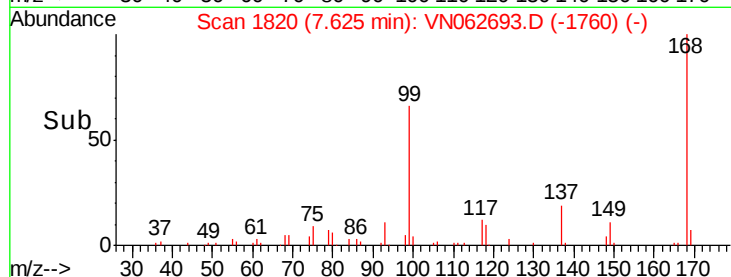
121 0.0 23.0 34.6#



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: 10.708 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

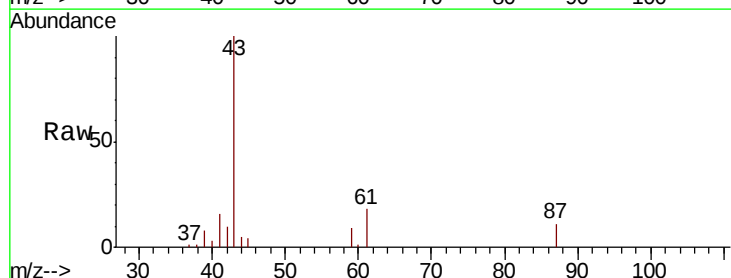
Tgt Ion: 43 Resp: 46867

Ion Ratio Lower Upper

43 100

61 17.7 20.8 31.2#

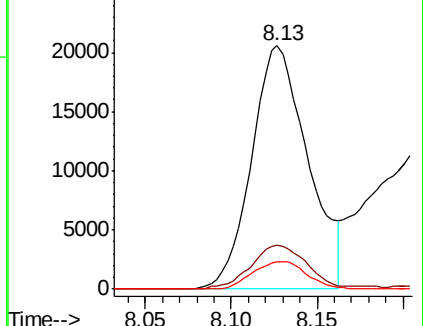
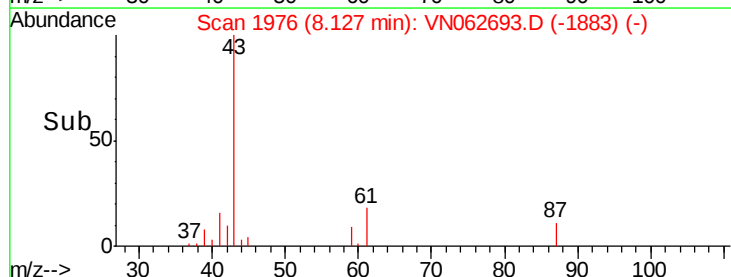
87 10.8 9.2 13.8

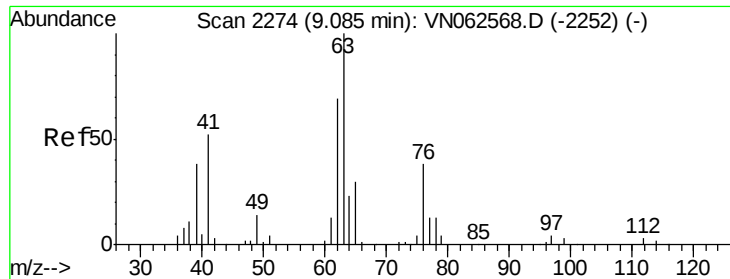


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

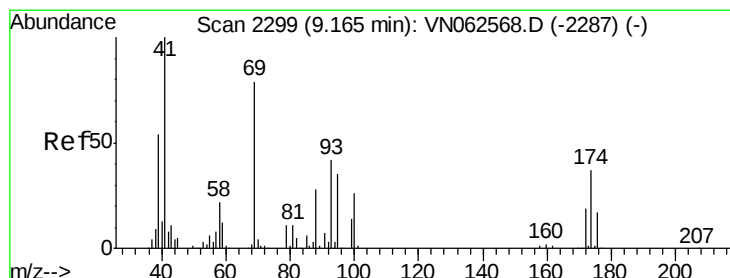
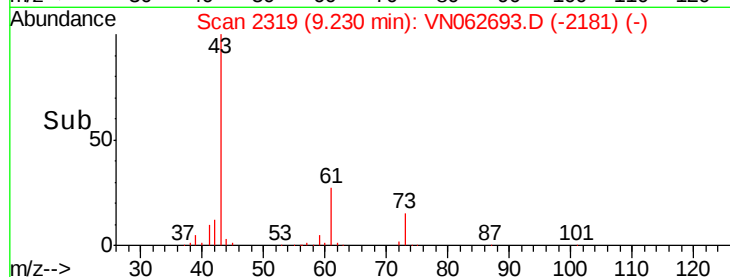
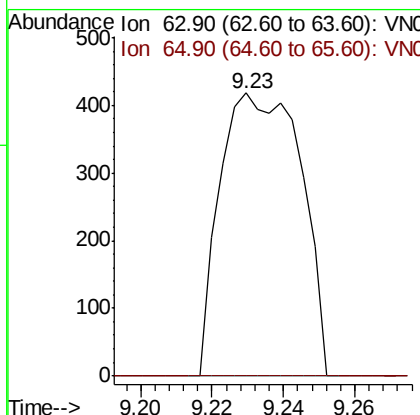
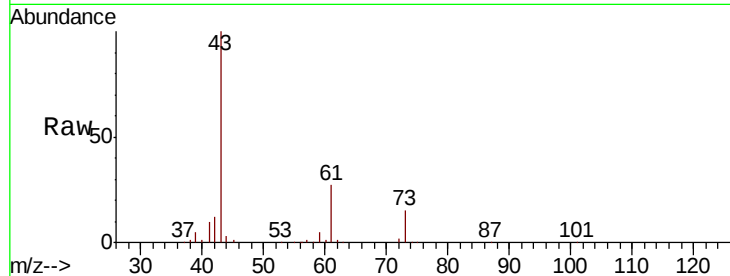




#45
 1,2-Dichloropropane
 Concen: 0.305 ug/l
 RT: 9.23 min Scan# 2319
 Delta R.T. 0.14 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

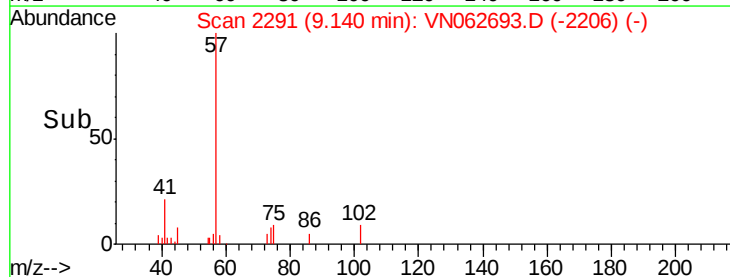
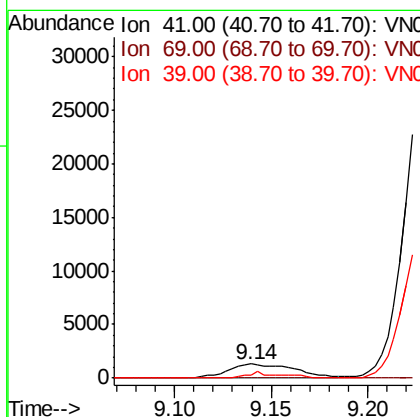
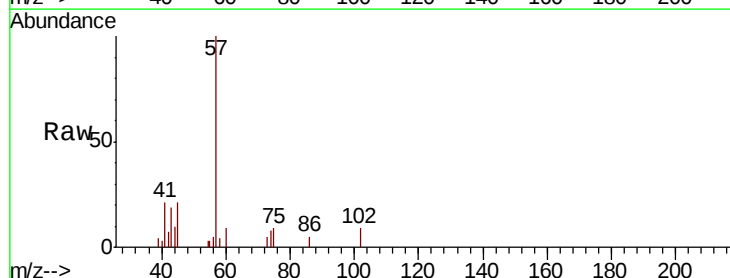
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-01-073020

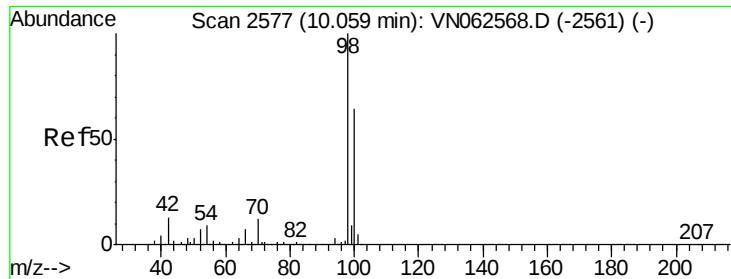
Tot Ion: 63 Resp: 653
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.534 ug/l
 RT: 9.14 min Scan# 2291
 Delta R.T. -0.03 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

Tgt Ion: 41 Resp: 3192
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#





#50

Toluene-d8

Concen: 49.254 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

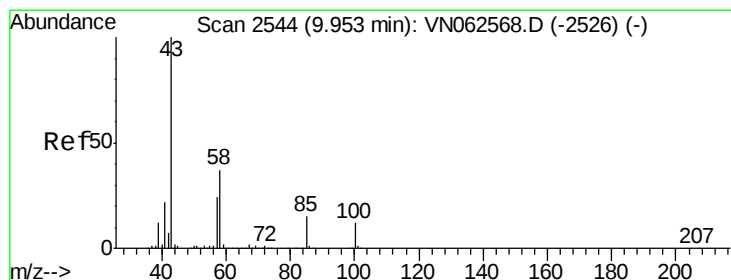
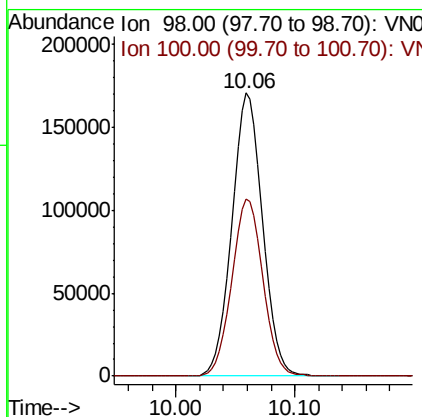
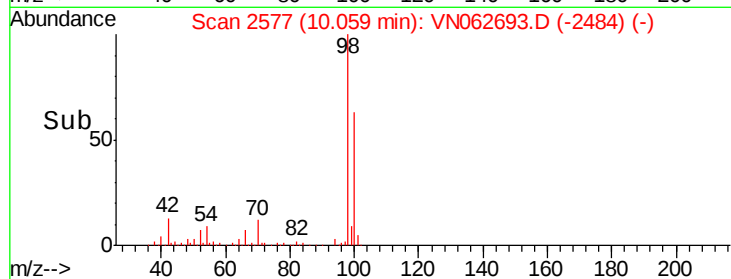
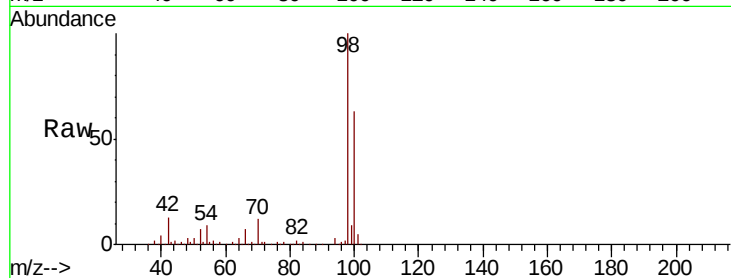
SU-01-073020

Tot Ion: 98 Resp: 305040

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 2.462 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062693.D

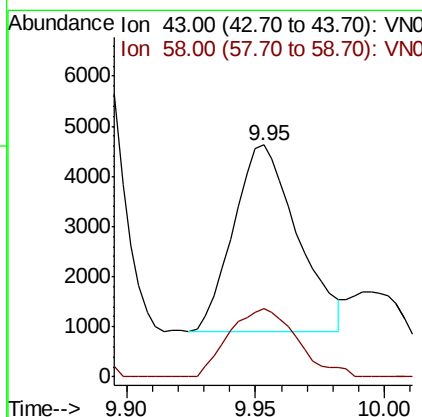
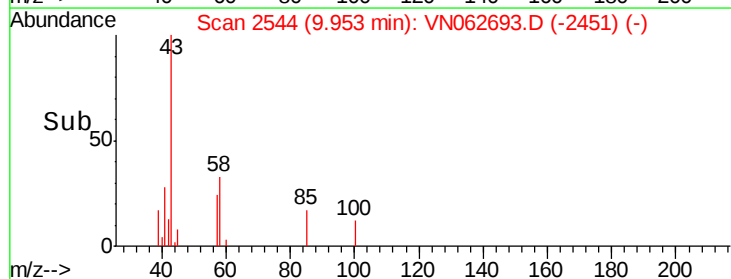
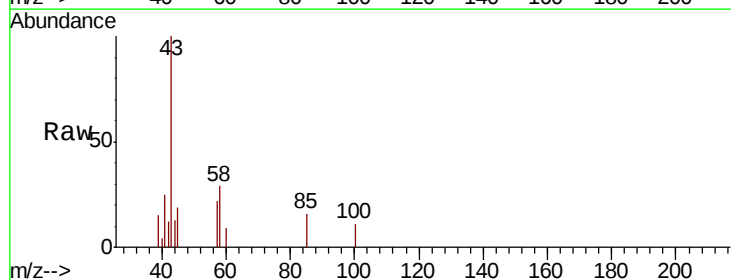
Acq: 31 Jul 2020 18:19

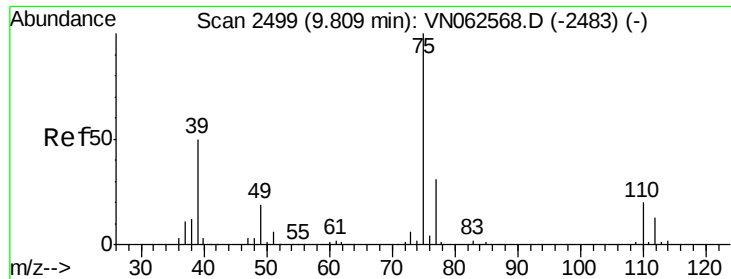
Tgt Ion: 43 Resp: 6447

Ion Ratio Lower Upper

43 100

58 39.0 29.8 44.6



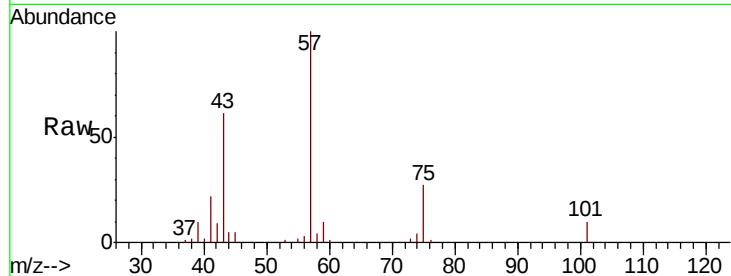


#54

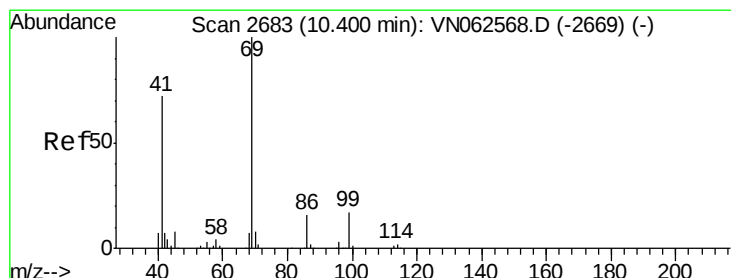
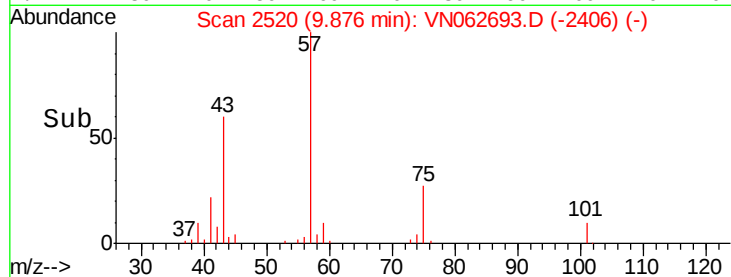
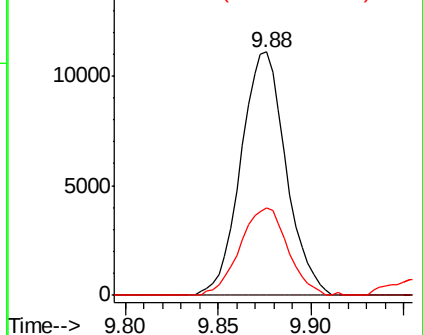
cis-1,3-Dichloropropene
 Concen: 5.876 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-01-073020

Tot Ion: 75 Resp: 18816
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 35.7 39.8 59.8#



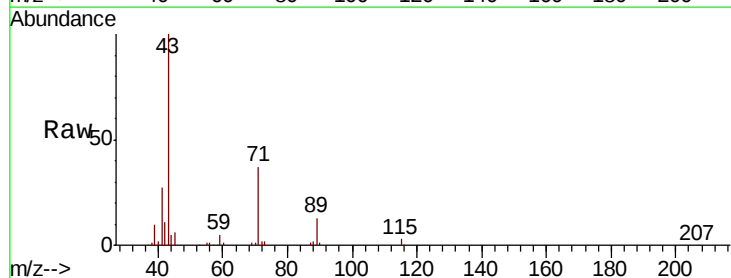
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



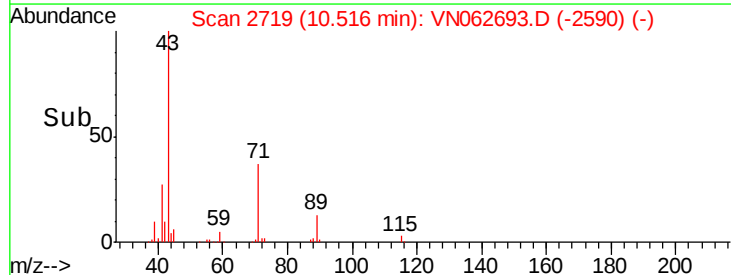
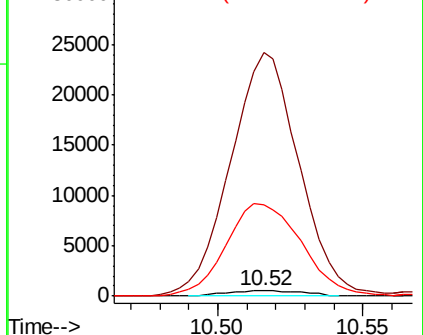
#56

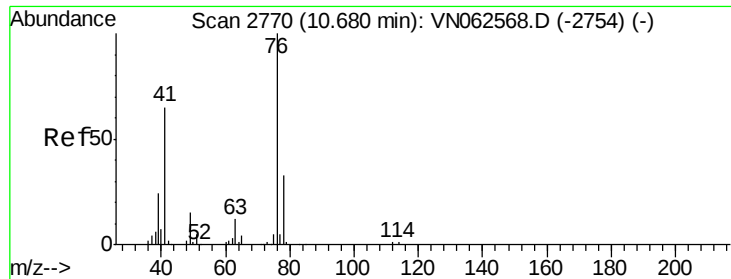
Ethyl methacrylate
 Concen: 2.064 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

Tgt Ion: 69 Resp: 944
 Ion Ratio Lower Upper
 69 100
 41 4234.6 57.2 85.8#
 39 1768.1 28.6 43.0#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO

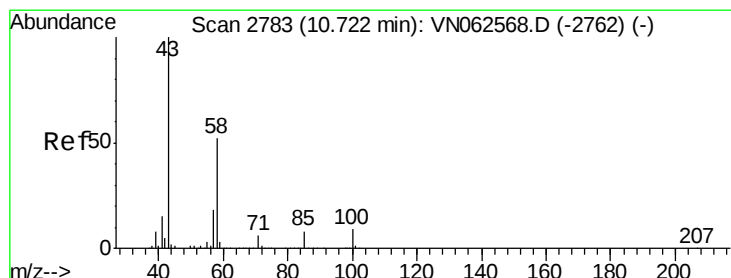
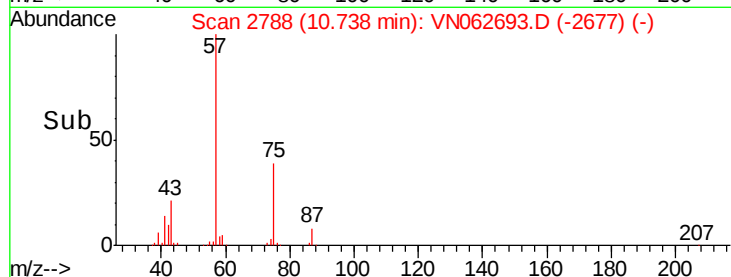
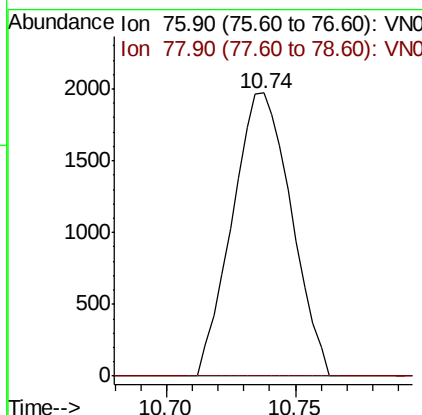
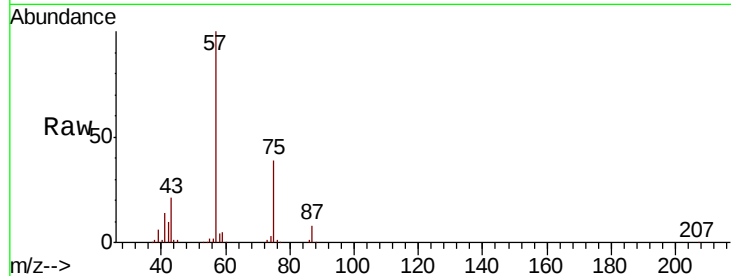




#57
 1,3-Dichloropropane
 Concen: 0.998 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

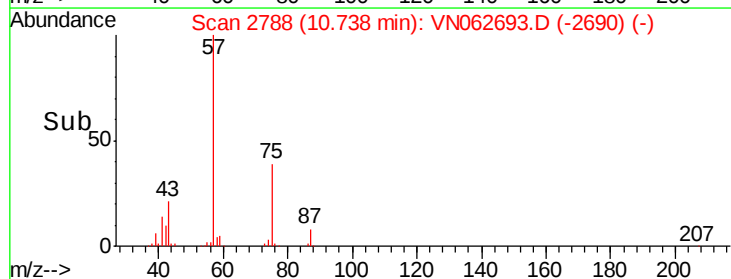
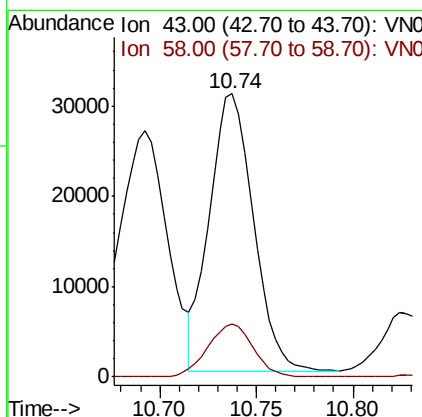
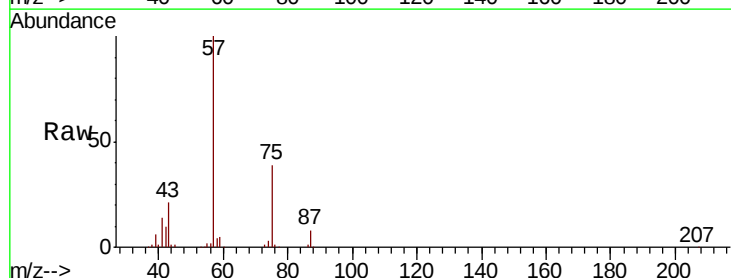
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-01-073020

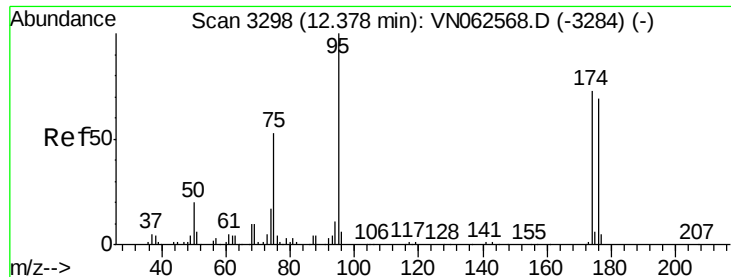
Tot Ion: 76 Resp: 3141
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 26.833 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062693.D
 Acq: 31 Jul 2020 18:19

Tgt Ion: 43 Resp: 48932
 Ion Ratio Lower Upper
 43 100
 58 19.5 26.0 78.0#

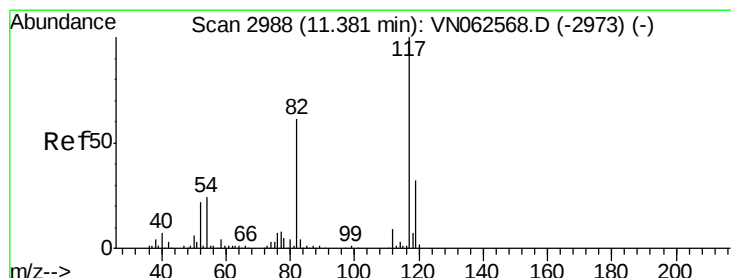
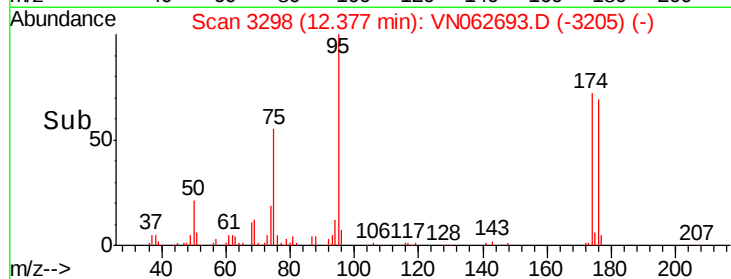
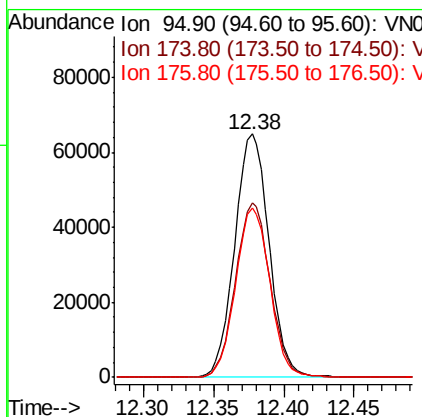
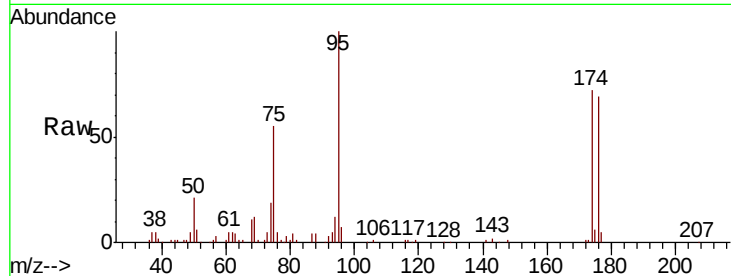




#62
4-Bromofluorobenzene
Concen: 48.991 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

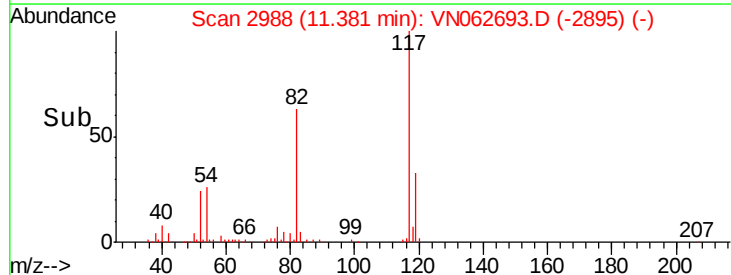
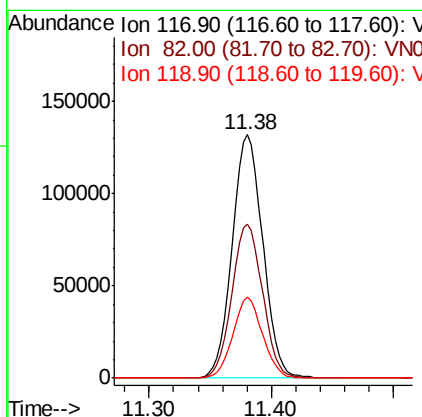
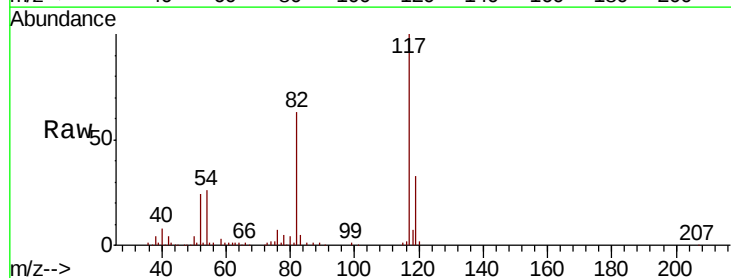
Instrument :
MSVOA_N
ClientSampleId :
SU-01-073020

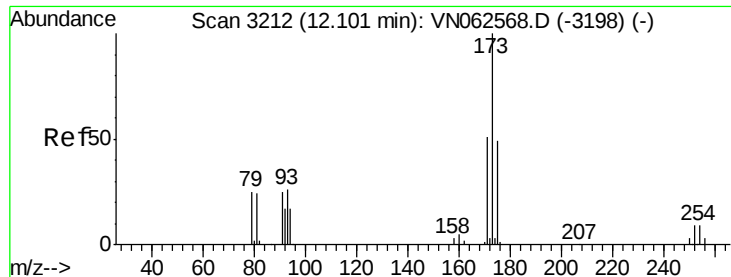
Tot Ion: 95 Resp: 110938
Ion Ratio Lower Upper
95 100
174 72.5 0.0 144.6
176 69.6 0.0 139.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062693.D
Acq: 31 Jul 2020 18:19

Tgt Ion: 117 Resp: 230324
Ion Ratio Lower Upper
117 100
82 63.2 49.0 73.6
119 33.2 25.4 38.2





#71

Bromoform

Concen: 0.547 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

SU-01-073020

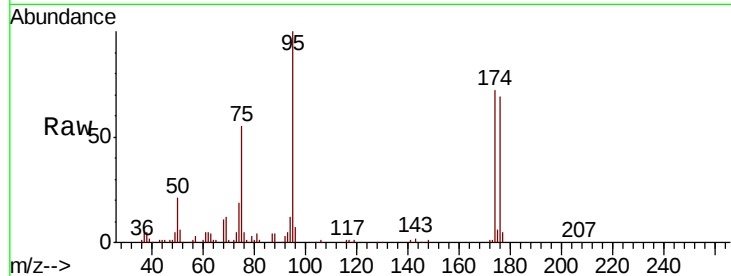
Tot Ion:173 Resp: 746

Ion Ratio Lower Upper

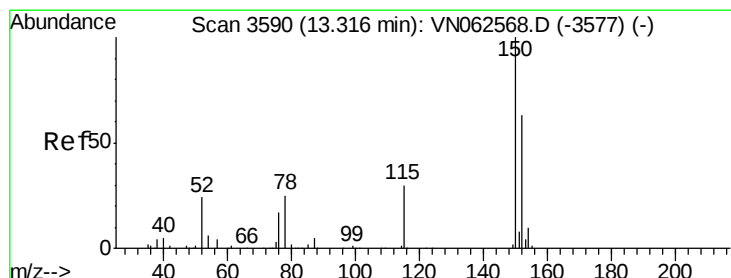
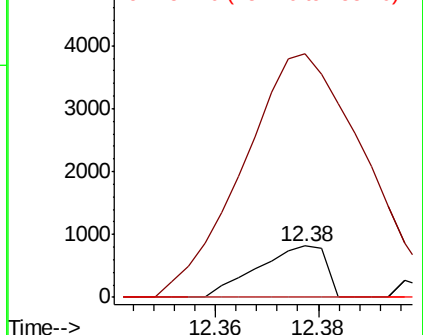
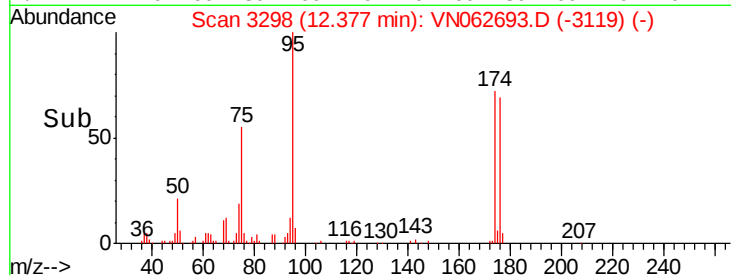
173 100

175 713.9 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: VN062693.D

Acq: 31 Jul 2020 18:19

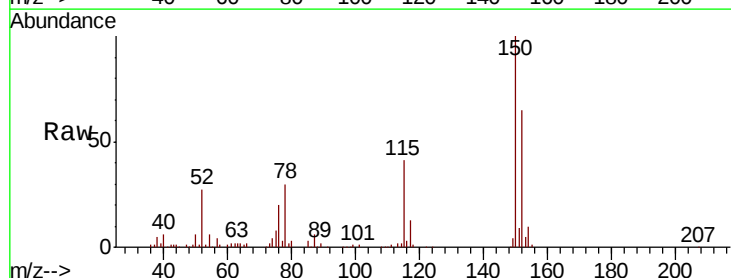
Tgt Ion:152 Resp: 84541

Ion Ratio Lower Upper

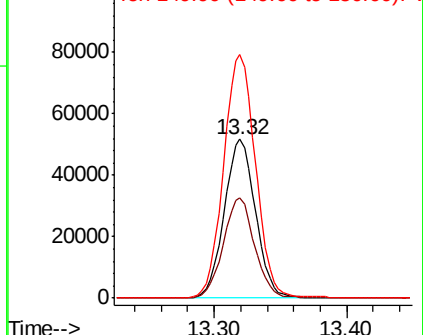
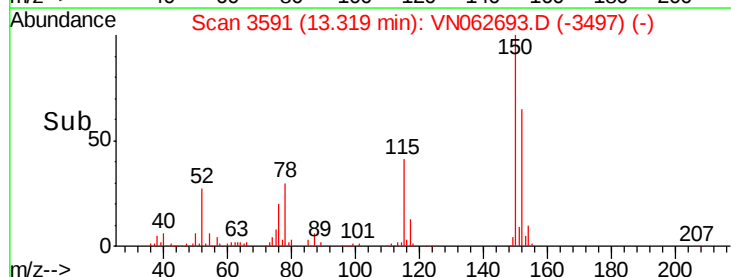
152 100

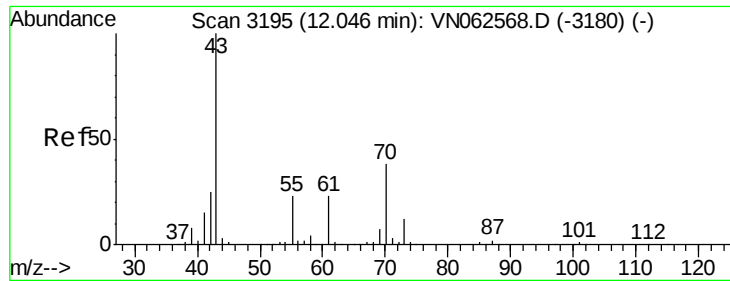
115 63.4 31.8 95.4

150 157.2 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: 0.584 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

SU-01-073020

Tot Ion: 43 Resp: 1743

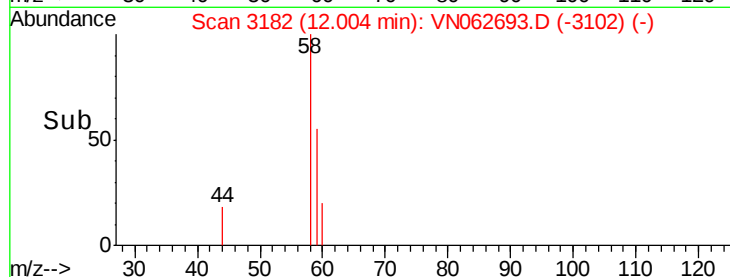
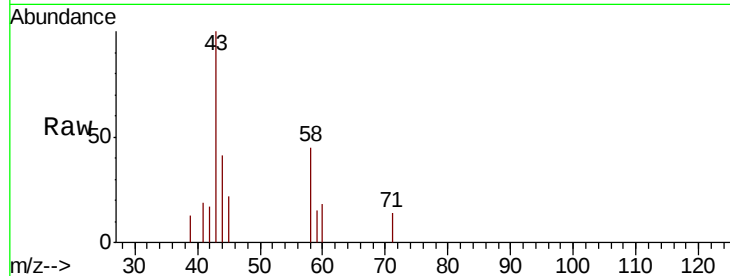
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

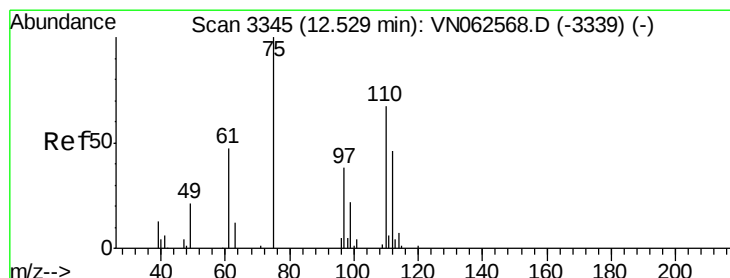
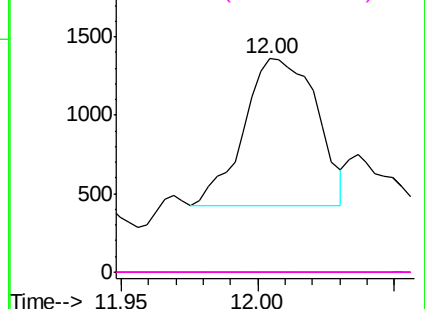


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.047 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062693.D

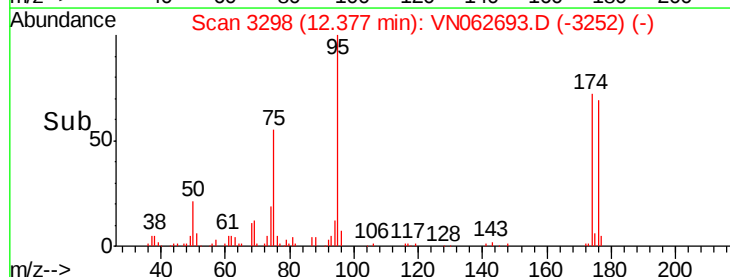
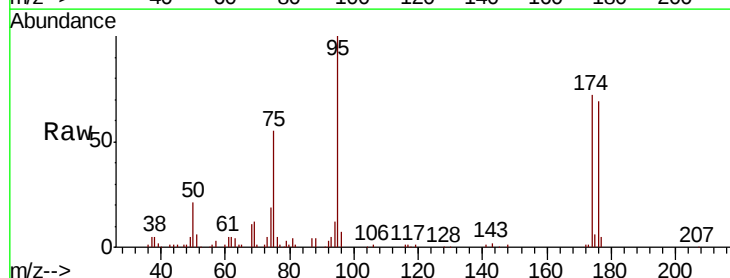
Acq: 31 Jul 2020 18:19

Tgt Ion: 75 Resp: 60354

Ion Ratio Lower Upper

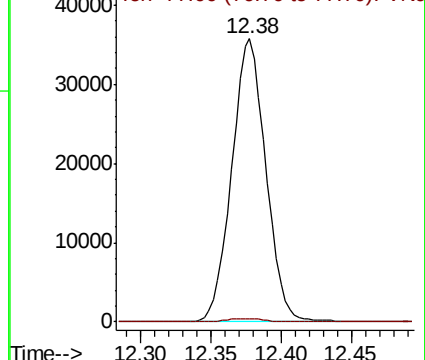
75 100

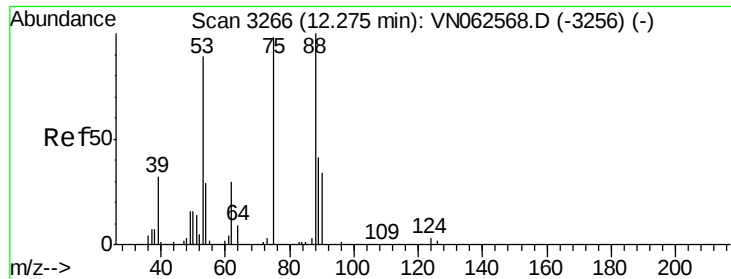
77 1.2 0.0 0.0#



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: 78.077 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062693.D

Acq: 31 Jul 2020 18:19

Instrument :

MSVOA_N

ClientSampleId :

SU-01-073020

Tot Ion: 75 Resp: 60354

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#

