

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN061820\
 Data File : VN061941.D
 Acq On : 19 Jun 2020 8:54
 Operator : JC/MD
 Sample : L2817-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-04-061720

Quant Time: Jun 19 11:48:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	143052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	269130	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	270971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	101941	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	97939	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
35) Dibromofluoromethane	7.55	113	83959	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	10.06	98	344830	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	12.38	95	114668	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	

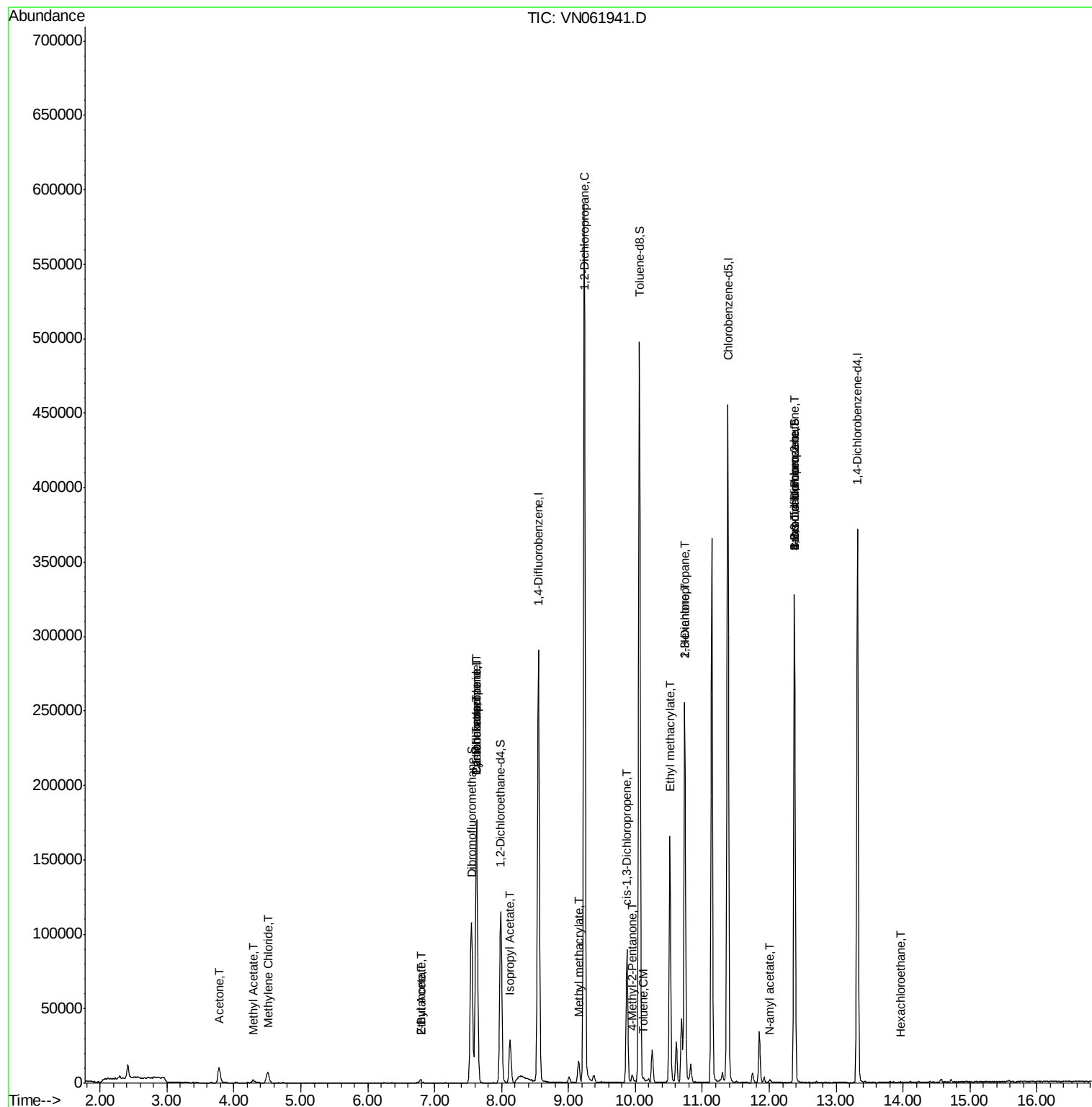
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	17121	30.212	ug/l	99
18) Methyl Acetate	4.28	43	3490	2.139	ug/l #	87
20) Methylene Chloride	4.51	84	6160	3.336	ug/l	93
25) 2-Butanone	6.79	43	3499	4.232	ug/l	100
31) Cyclohexane	7.63	56	2841	1.124	ug/l #	3
36) 1,1-Dichloropropene	7.63	75	11533	4.698	ug/l #	49
37) Ethyl Acetate	6.79	43	3499	1.825	ug/l #	65
38) Carbon Tetrachloride	7.63	117	14576	5.996	ug/l #	18
43) Isopropyl Acetate	8.13	43	32212	9.971	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	673	0.368	ug/l #	43
48) Methyl methacrylate	9.15	41	1875	1.276	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	3511	1.839	ug/l	96
52) Toluene	10.13	92	1045	0.224	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	16868	5.552	ug/l #	65
56) Ethyl methacrylate	10.52	69	718	3.143	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2633	0.846	ug/l #	42
59) 2-Hexanone	10.74	43	34708	34.944	ug/l #	50
71) Bromoform	12.37	173	864	0.594	ug/l #	1
74) N-amyl acetate	12.01	43	1410	3.569	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	56216	28.089	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	56216	76.610	ug/l #	14
90) Hexachloroethane	13.97	117	360	0.332	ug/l #	15

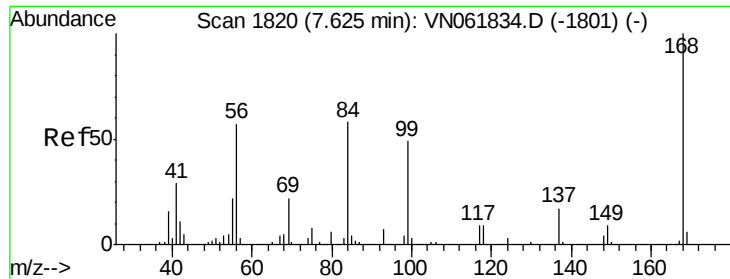
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 17 01:19:44 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: VN061941.D

Acq: 19 Jun 2020 8:54

Instrument :

MSVOA_N

ClientSampleId :

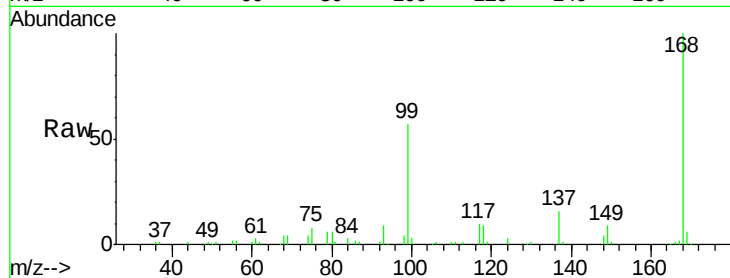
SU-04-061720

Tgt Ion:168 Resp: 143052

Ion Ratio Lower Upper

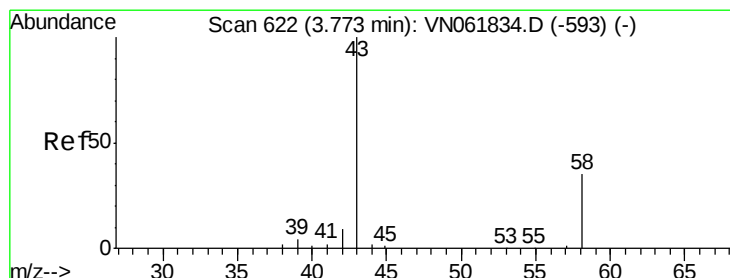
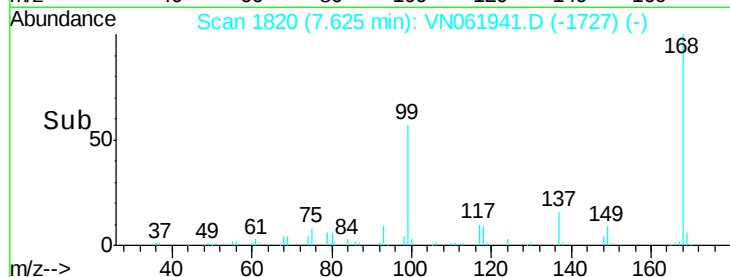
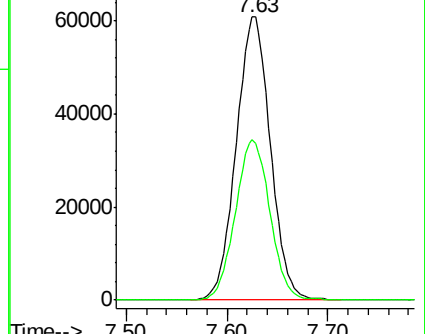
168 100

99 56.6 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 30.212 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061941.D

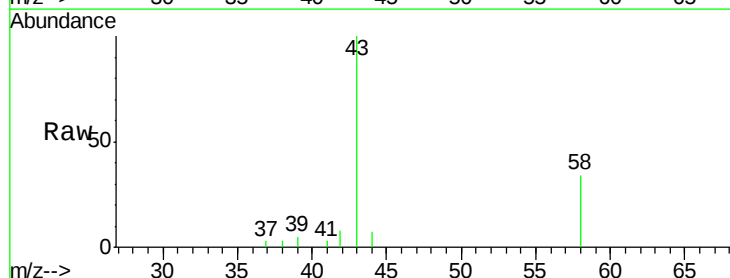
Acq: 19 Jun 2020 8:54

Tgt Ion: 43 Resp: 17121

Ion Ratio Lower Upper

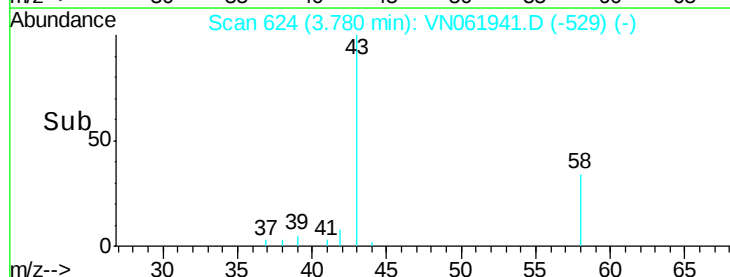
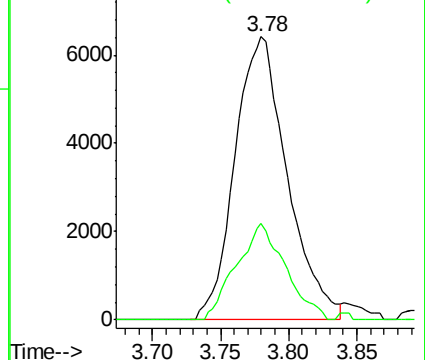
43 100

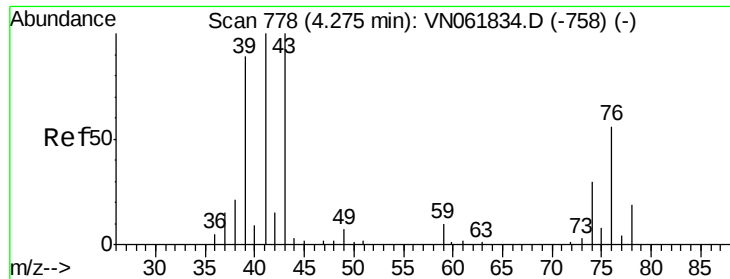
58 34.1 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

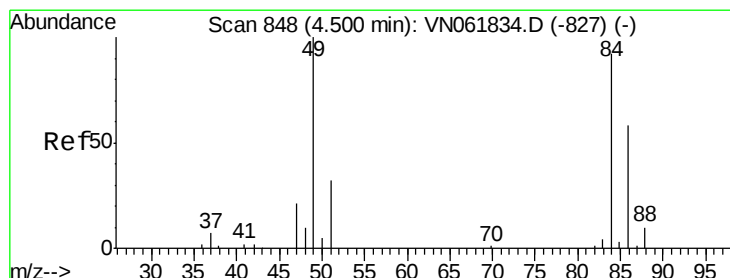
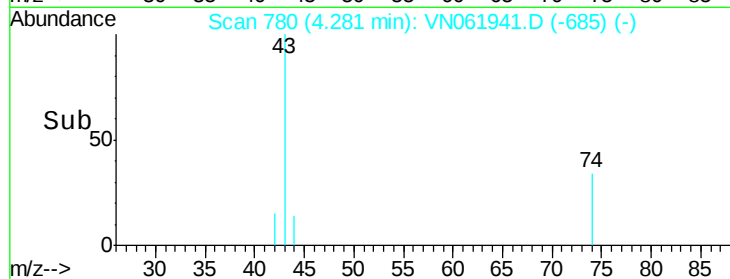
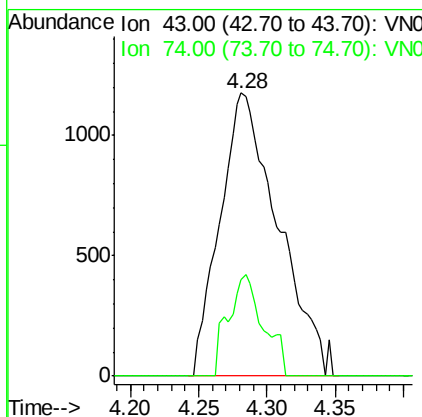
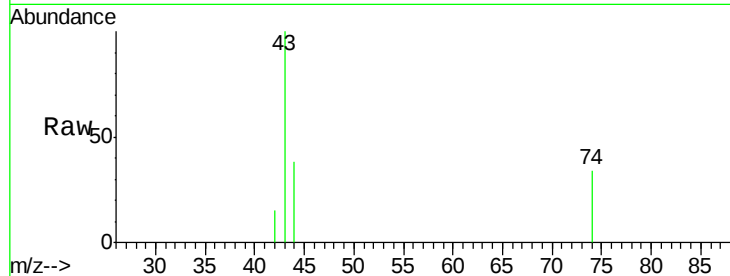




#18
Methyl Acetate
Concen: 2.139 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

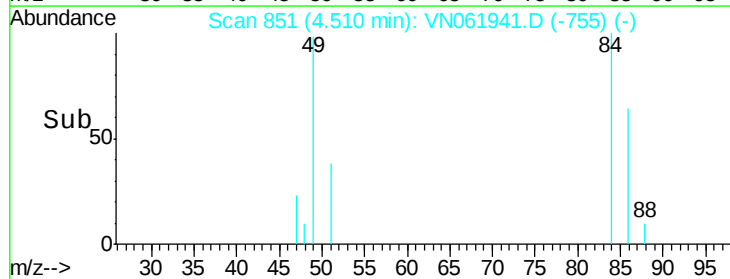
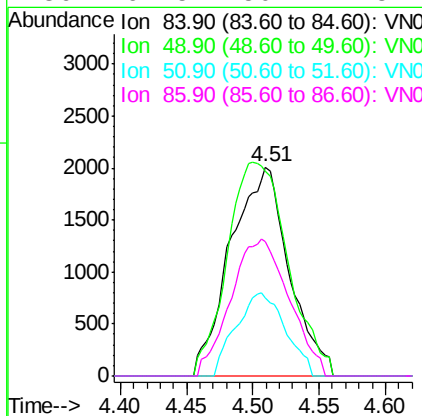
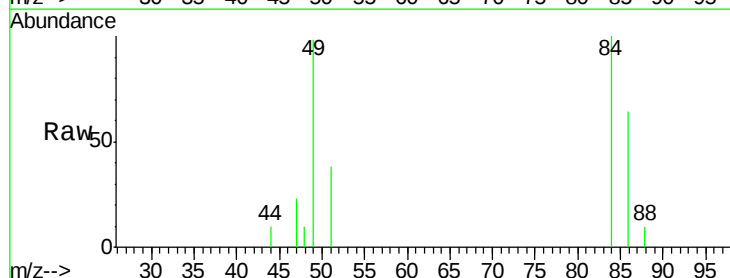
Instrument :
MSVOA_N
ClientSampled :
SU-04-061720

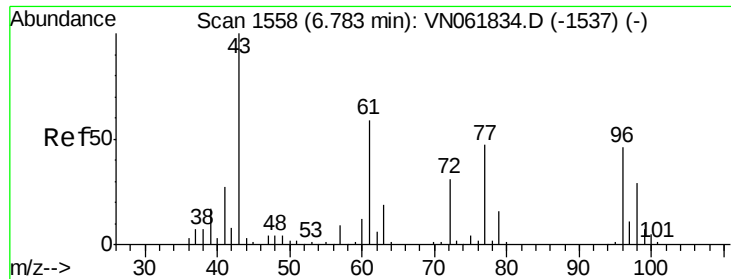
Tgt Ion: 43 Resp: 3490
Ion Ratio Lower Upper
43 100
74 21.6 23.0 34.4#



#20
Methylene Chloride
Concen: 3.336 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Tgt Ion: 84 Resp: 6160
Ion Ratio Lower Upper
84 100
49 98.4 87.0 130.4
51 37.6 27.8 41.6
86 64.5 50.2 75.2

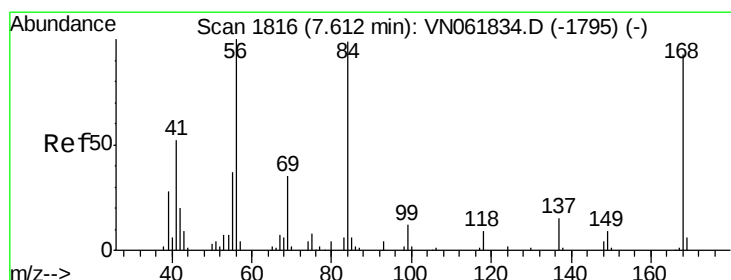
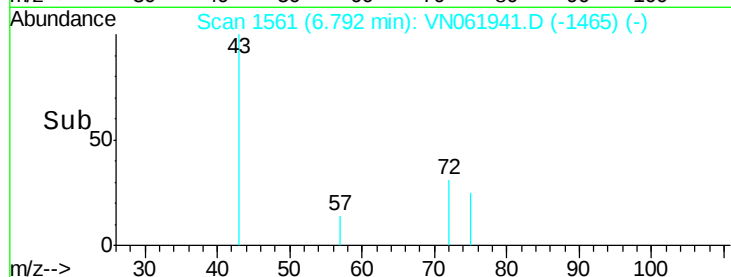
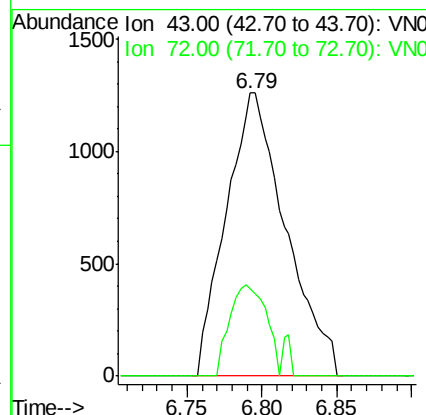
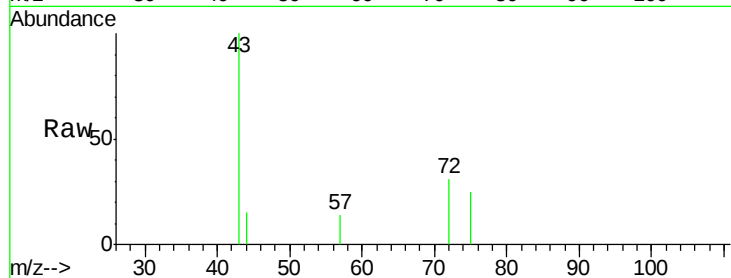




#25
2-Butanone
Concen: 4.232 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

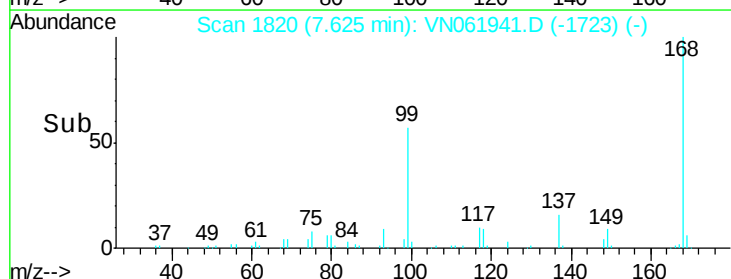
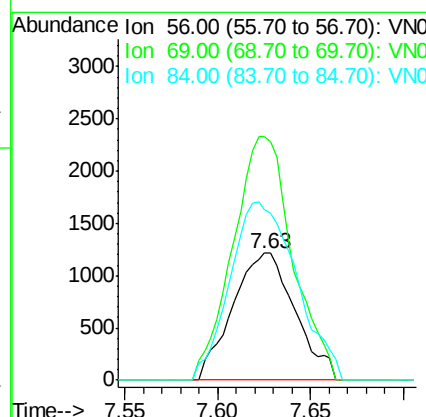
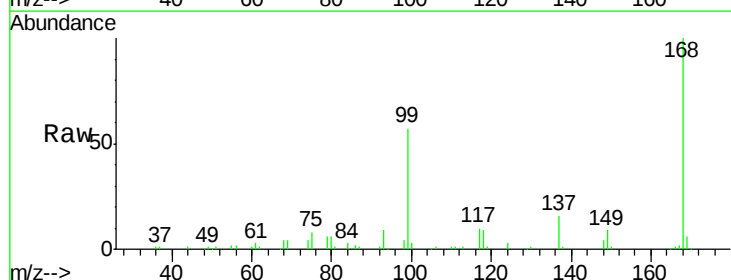
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MSVOA_N
ClientSampled :
SU-04-061720

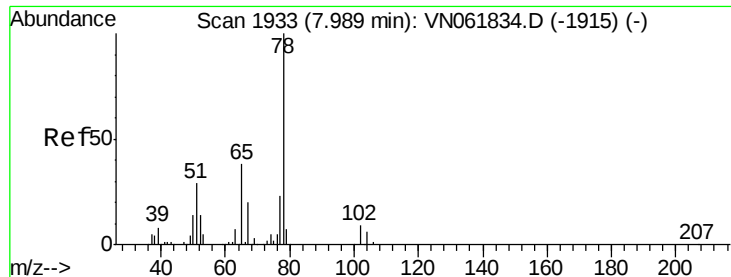
Tgt Ion: 43 Resp: 3499
Ion Ratio Lower Upper
43 100
72 30.8 24.6 37.0



#31
Cyclohexane
Concen: 1.124 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Tgt Ion: 56 Resp: 2841
Ion Ratio Lower Upper
56 100
69 191.5 27.7 41.5#
84 134.7 79.1 118.7#

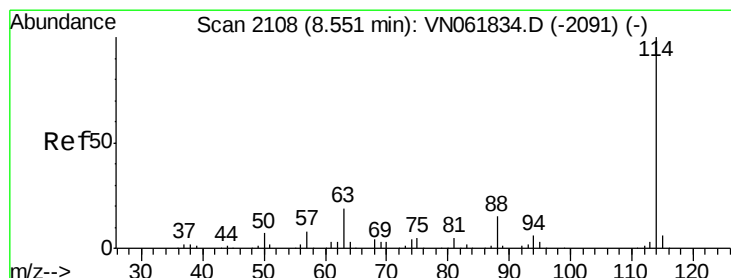
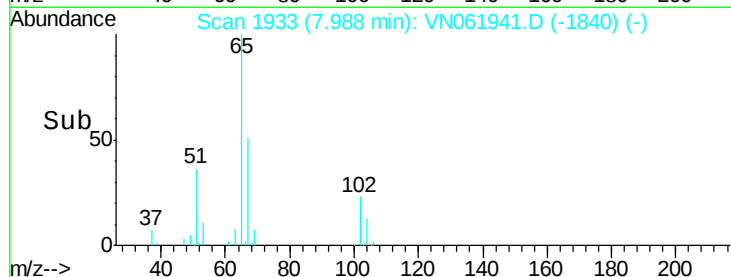
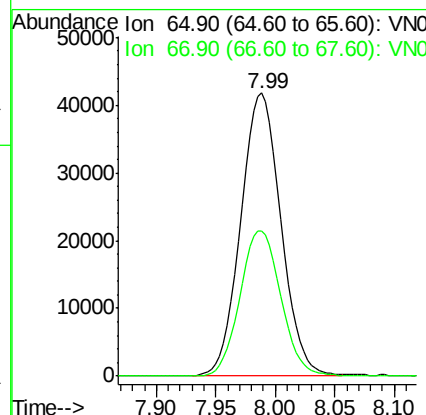
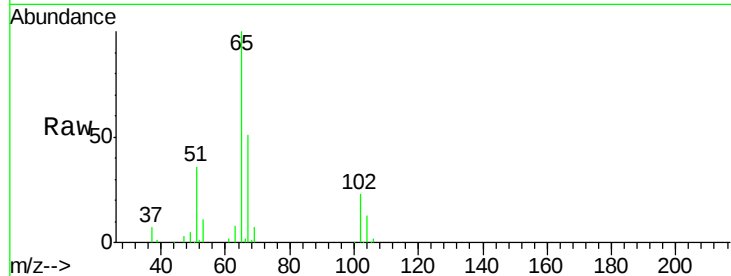




#33
 1,2-Dichloroethane-d4
 Concen: 51.049 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

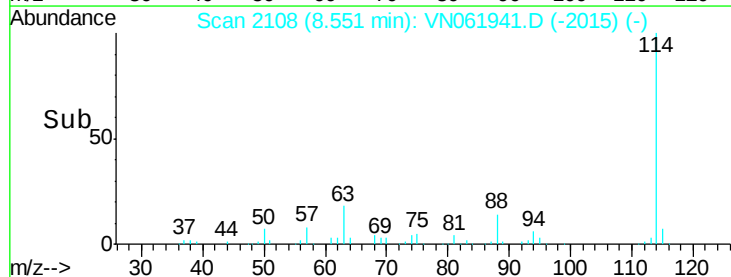
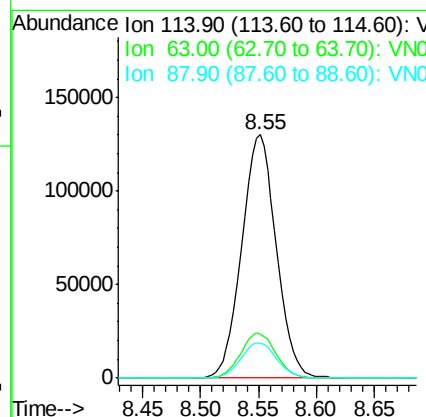
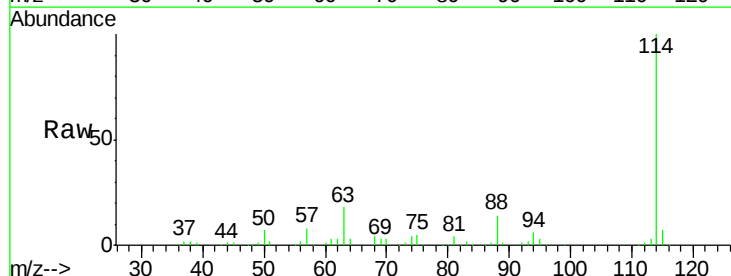
Instrument :
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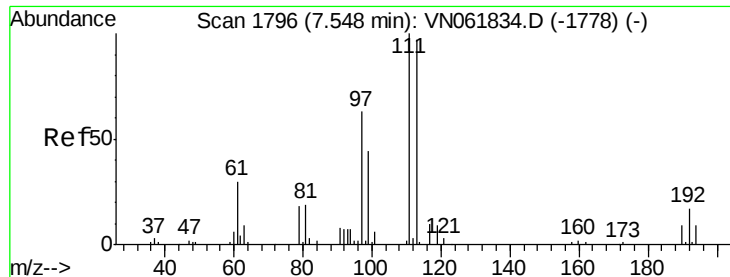
Tgt Ion: 65 Resp: 97939
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

Tgt Ion: 114 Resp: 269130
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 37.6
 88 14.3 0.0 31.0

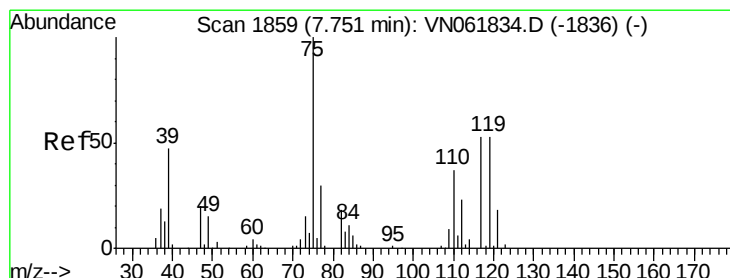
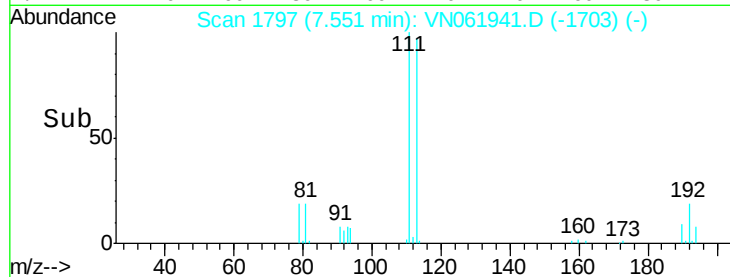
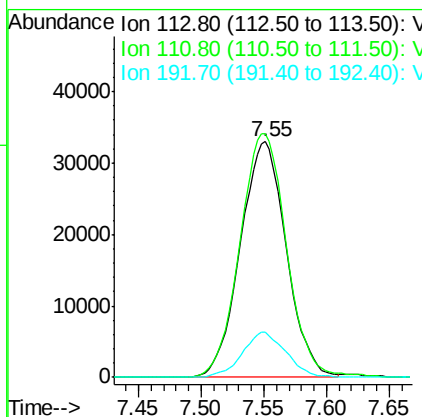
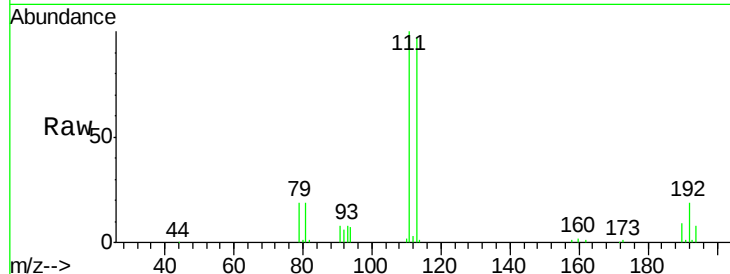




#35
 Dibromofluoromethane
 Concen: 48.764 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

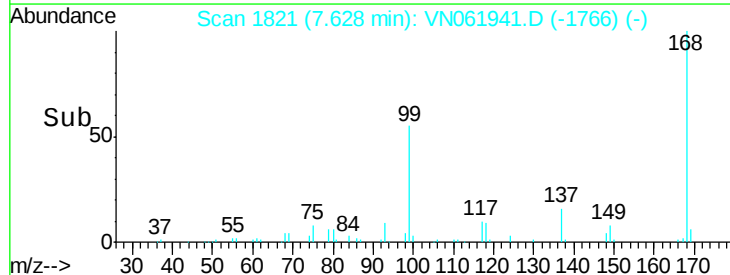
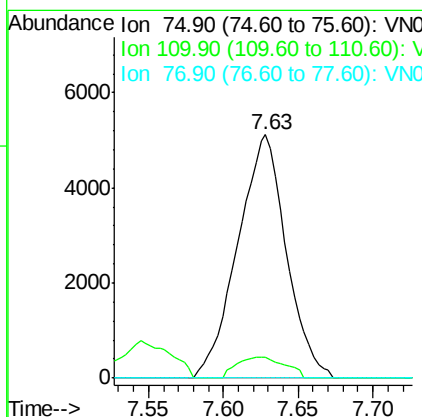
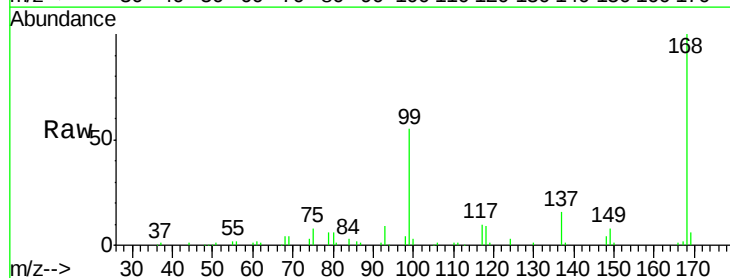
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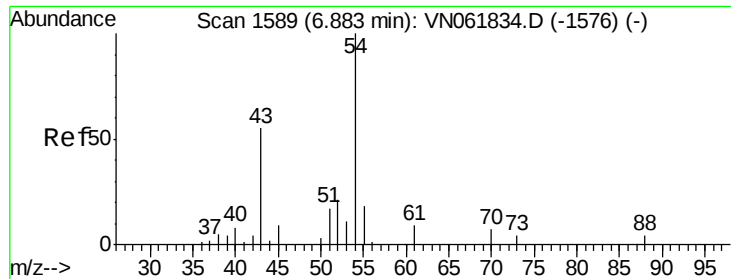
Tgt Ion:113 Resp: 83959
 Ion Ratio Lower Upper
 113 100
 111 105.1 83.7 125.5
 192 18.1 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.698 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

Tgt Ion: 75 Resp: 11533
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.2 54.6#
 77 0.0 24.2 36.4#

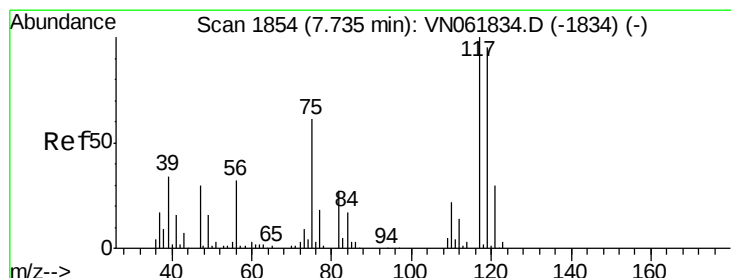
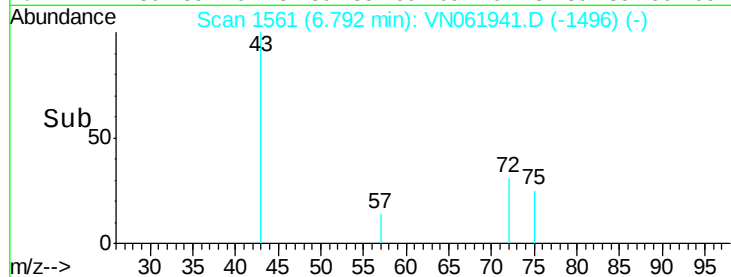
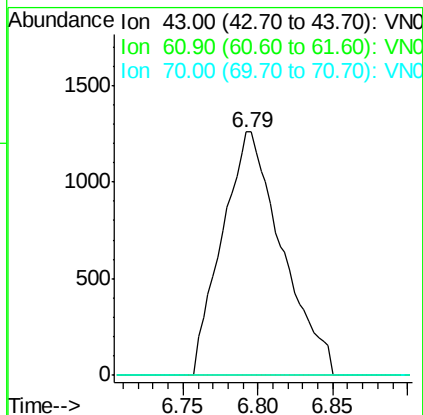
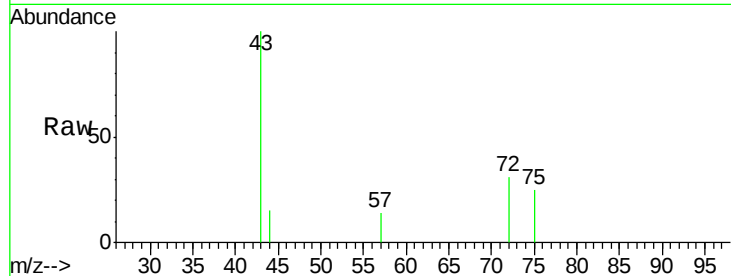




#37
Ethyl Acetate
 Concen: 1.825 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

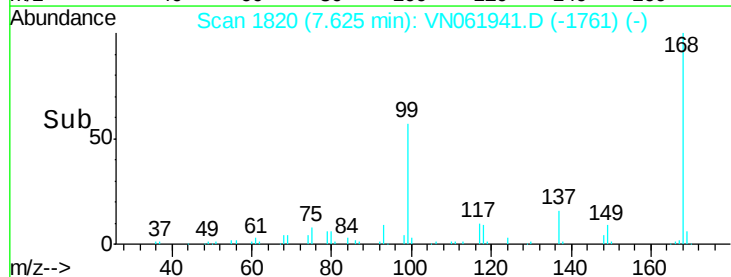
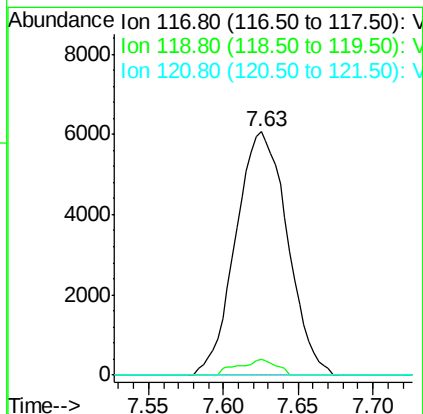
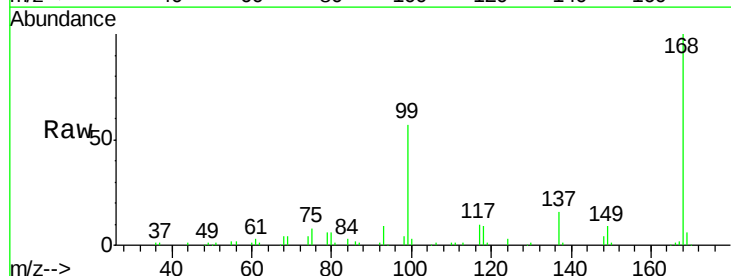
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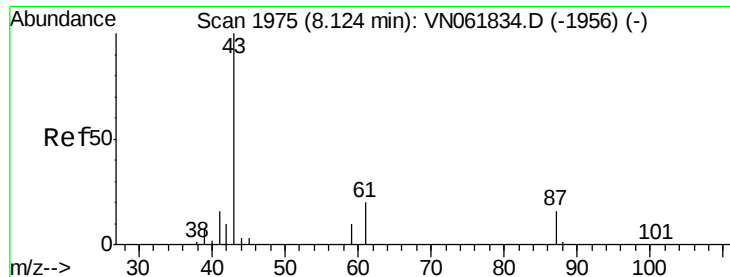
Tgt Ion: 43 Resp: 3499
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.0 19.4#
 70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
 Concen: 5.996 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

Tgt Ion: 117 Resp: 14576
 Ion Ratio Lower Upper
 117 100
 119 6.6 75.8 113.6#
 121 0.0 23.8 35.6#





#43

Isopropyl Acetate

Concen: 9.971 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061941.D

Acq: 19 Jun 2020 8:54

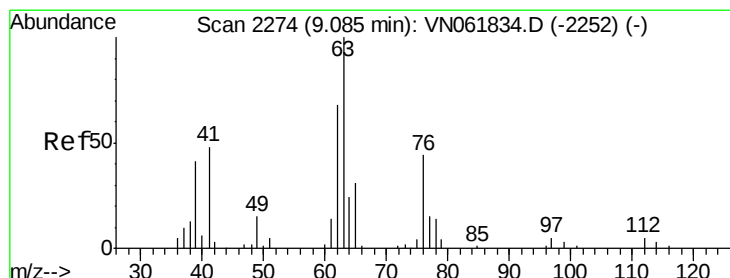
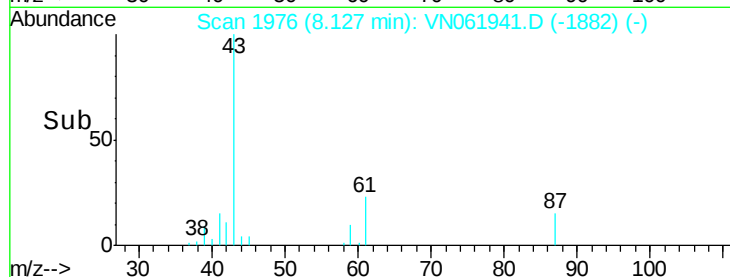
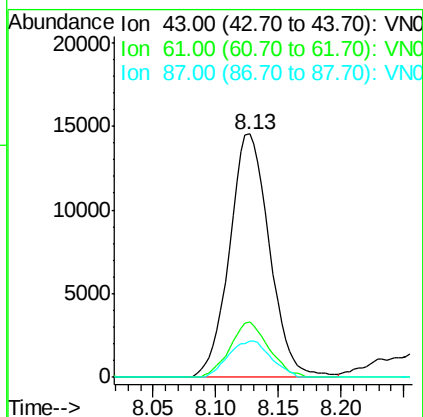
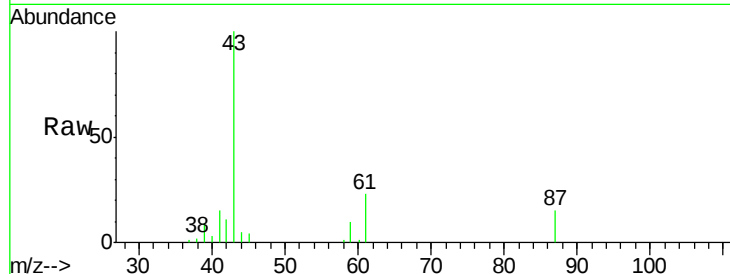
Instrument :

MSVOA_N

ClientSampleId :

SU-04-061720

Tgt Ion:	43	Resp:	32212
Ion	Ratio	Lower	Upper
43	100		
61	22.1	24.0	36.0#
87	15.8	12.5	18.7



#45

1,2-Dichloropropane

Concen: 0.368 ug/l

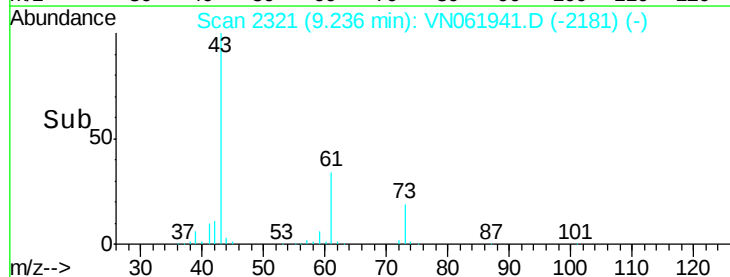
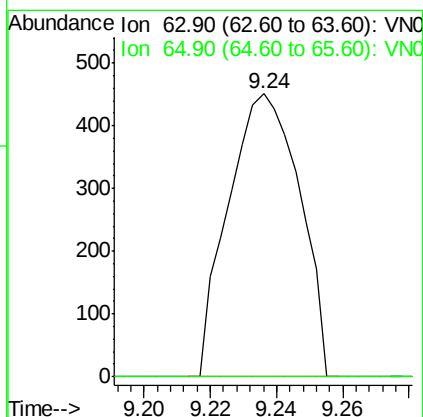
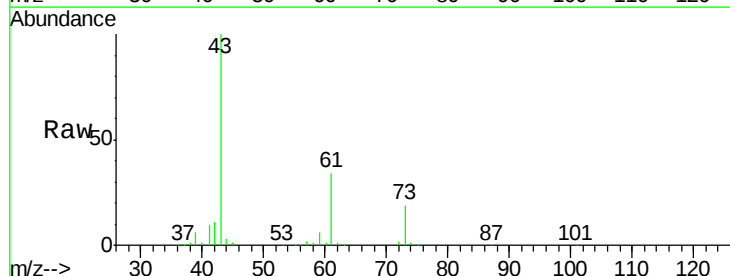
RT: 9.24 min Scan# 2321

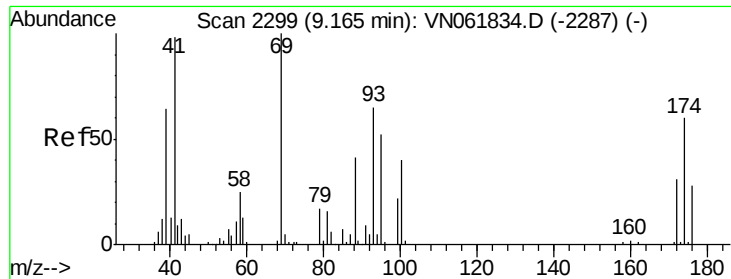
Delta R.T. 0.15 min

Lab File: VN061941.D

Acq: 19 Jun 2020 8:54

Tgt Ion:	63	Resp:	673
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.1	37.7#

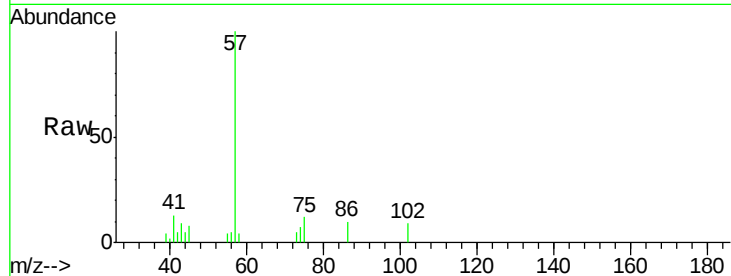




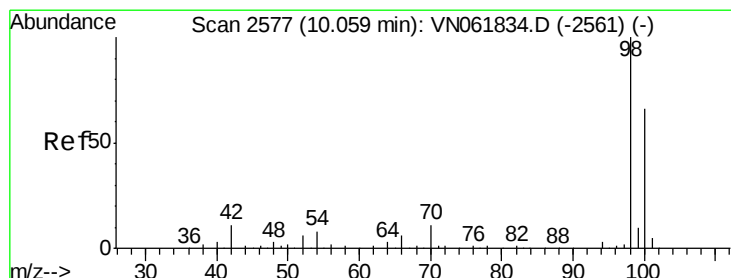
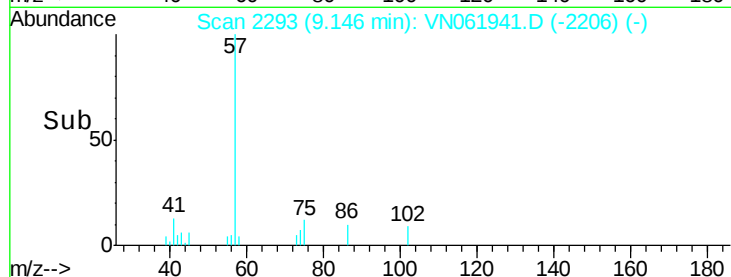
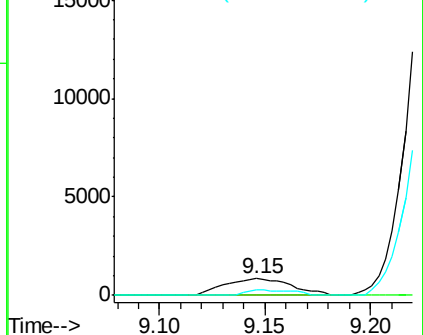
#48
Methyl methacrylate
Concen: 1.276 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Instrument :
MSVOA_N
ClientSampleId :
SU-04-061720

Tgt Ion: 41 Resp: 1875
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.4#
39 0.0 55.1 82.7#

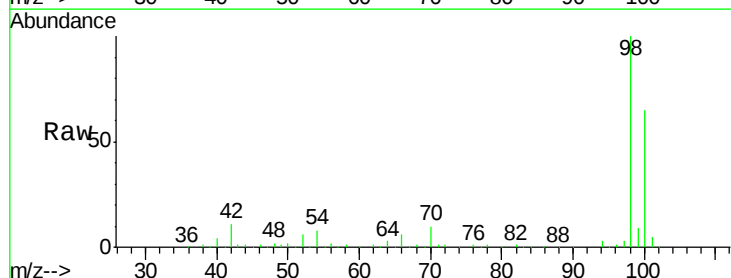


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

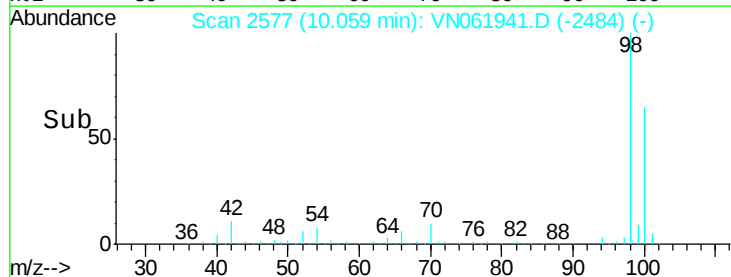
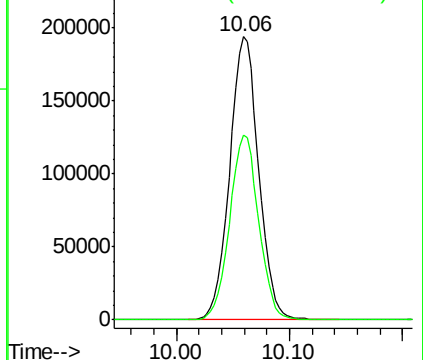


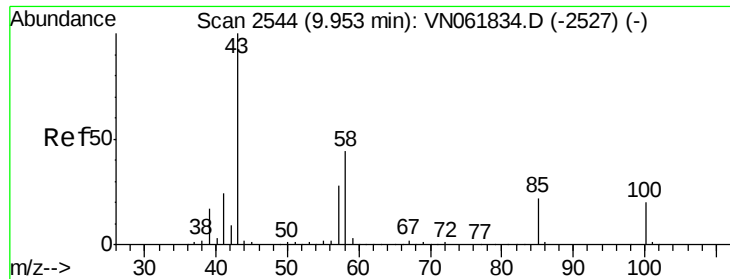
#50
Toluene-d8
Concen: 50.943 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Tgt Ion: 98 Resp: 344830
Ion Ratio Lower Upper
98 100
100 65.7 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

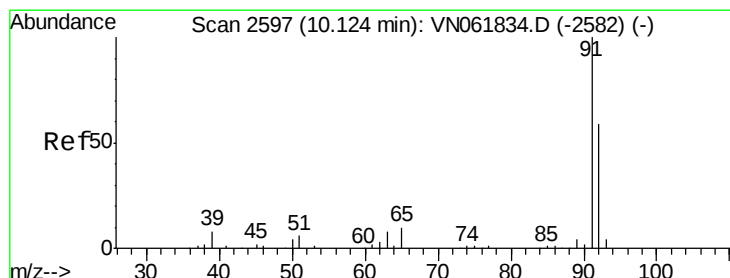
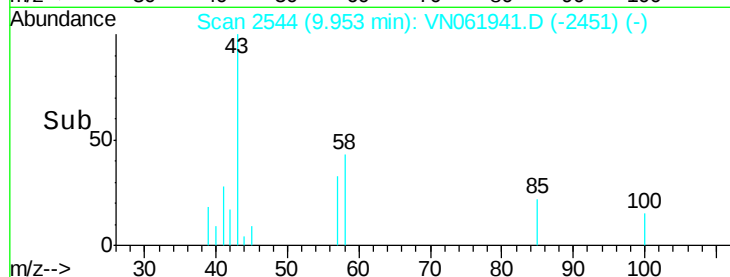
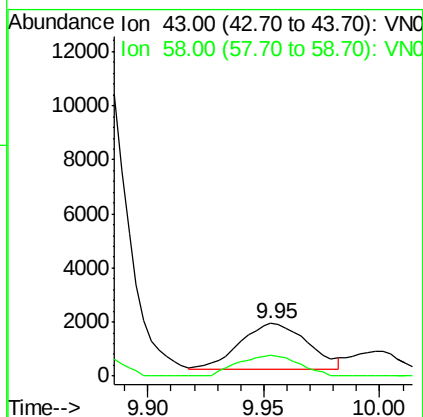
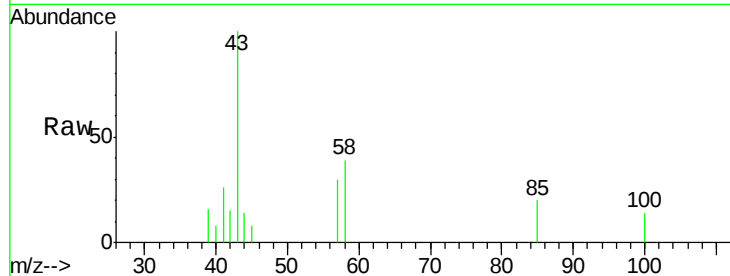




#51
 4-Methyl-2-Pentanone
 Concen: 1.839 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

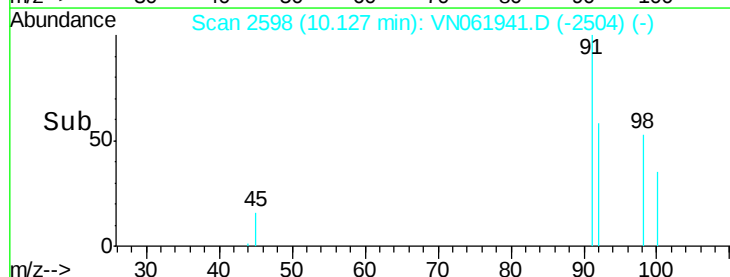
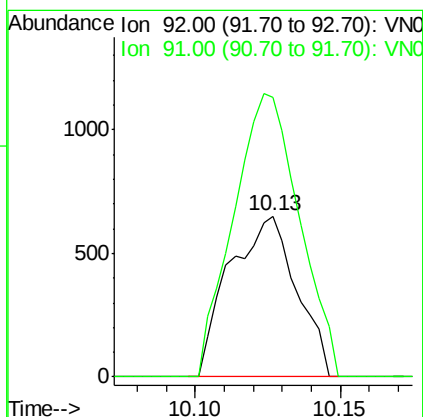
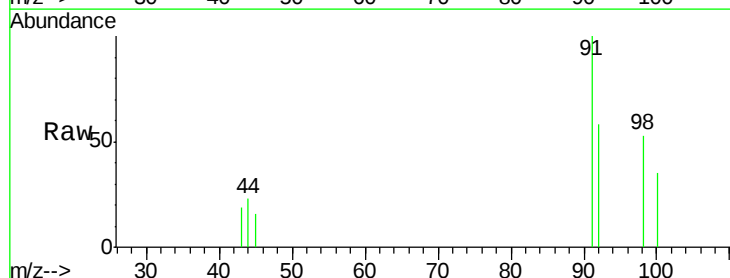
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-04-061720

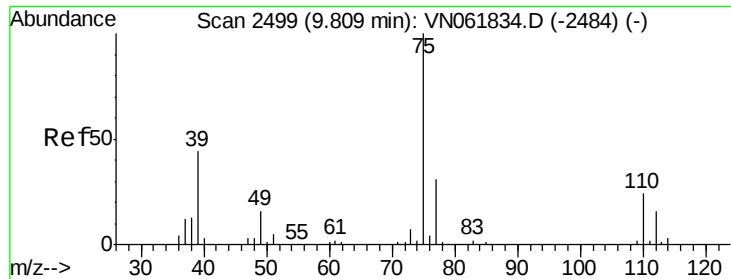
Tgt Ion: 43 Resp: 3511
 Ion Ratio Lower Upper
 43 100
 58 40.6 34.6 52.0



#52
 Toluene
 Concen: 0.224 ug/l
 RT: 10.13 min Scan# 2598
 Delta R.T. 0.00 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

Tgt Ion: 92 Resp: 1045
 Ion Ratio Lower Upper
 92 100
 91 173.0 137.1 205.7

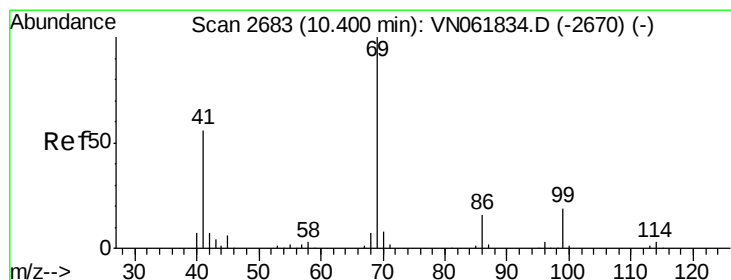
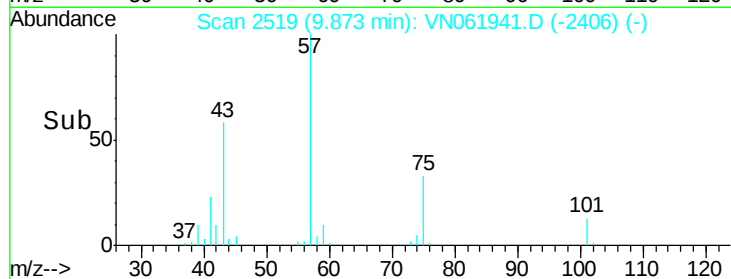
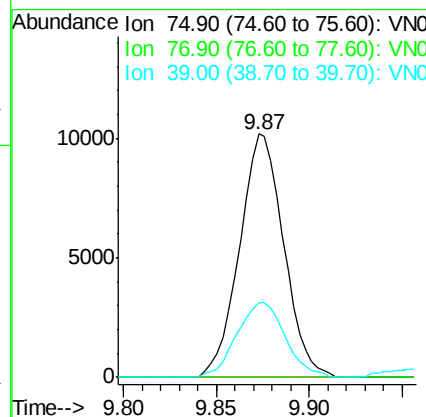
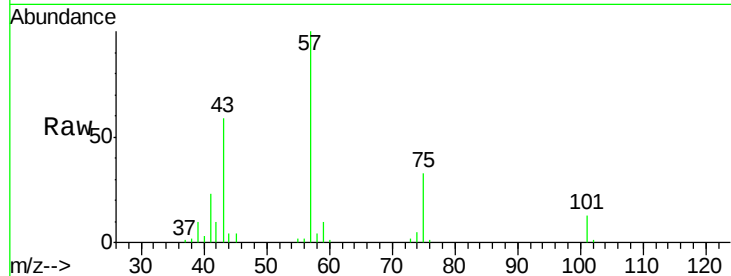




#54
 cis-1,3-Dichloropropene
 Concen: 5.552 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

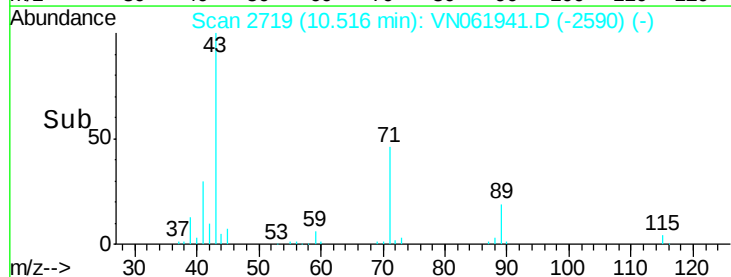
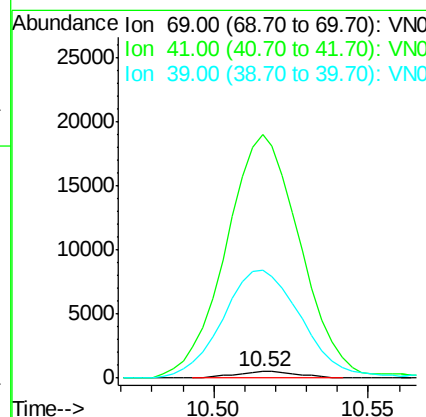
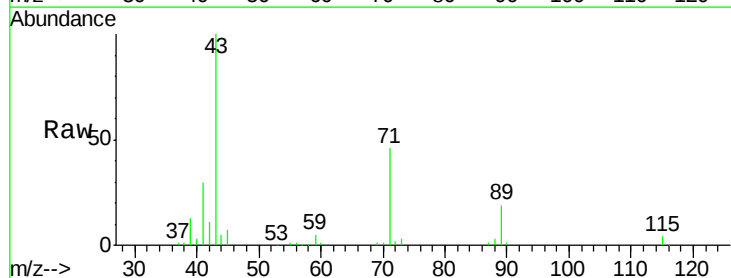
Instrument :
 MSVOA_N
 ClientSampled :
 SU-04-061720

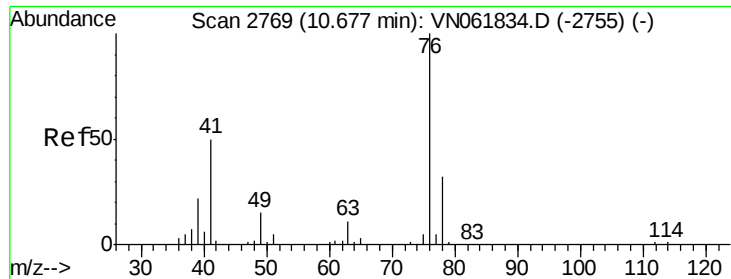
Tgt Ion: 75 Resp: 16868
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 30.7 35.4 53.0#



#56
 Ethyl methacrylate
 Concen: 3.143 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

Tgt Ion: 69 Resp: 718
 Ion Ratio Lower Upper
 69 100
 41 4445.8 44.9 67.3#
 39 2089.3 30.0 45.0#

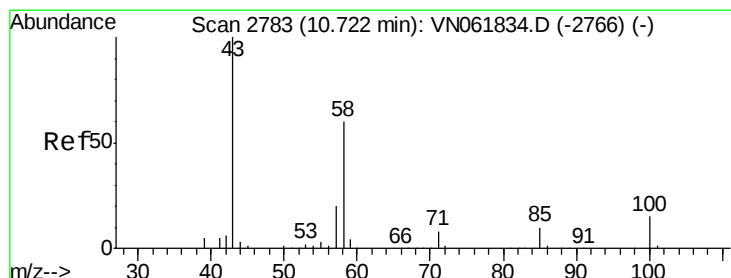
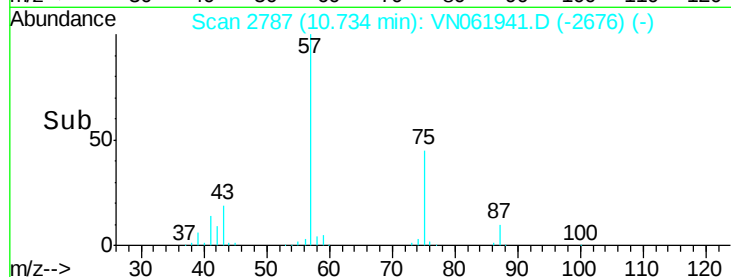
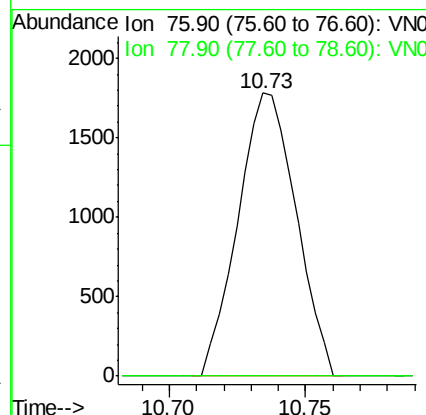
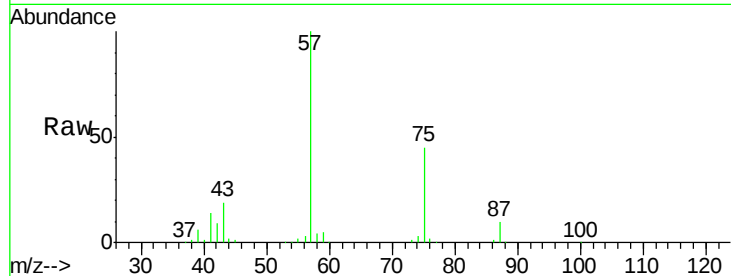




#57
 1,3-Dichloropropane
 Concen: 0.846 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

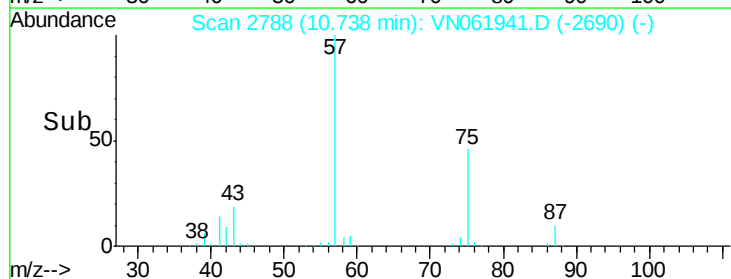
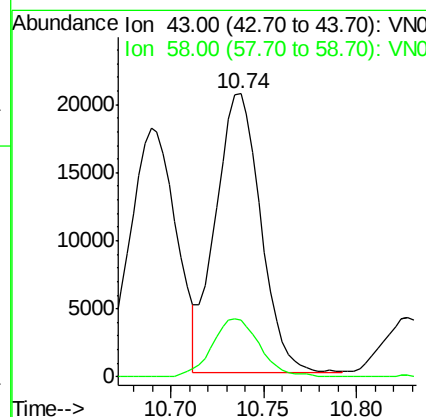
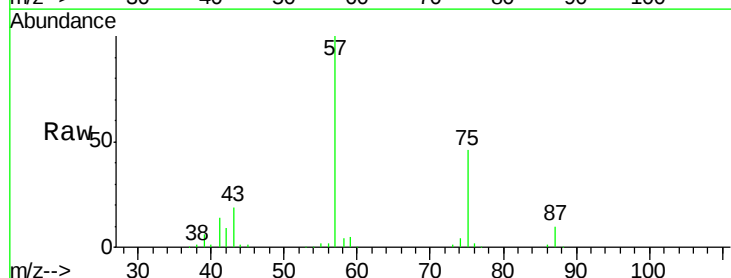
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-04-061720

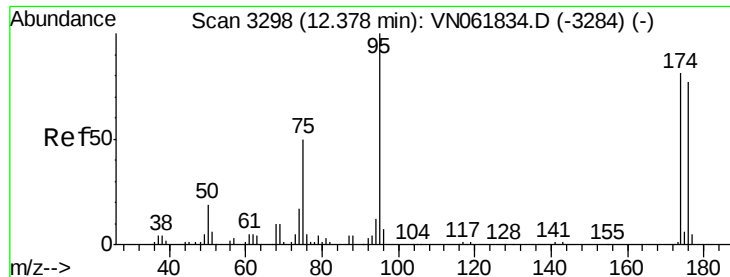
Tgt Ion: 76 Resp: 2633
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 34.944 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061941.D
 Acq: 19 Jun 2020 8:54

Tgt Ion: 43 Resp: 34708
 Ion Ratio Lower Upper
 43 100
 58 22.0 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 49.387 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061941.D

Acq: 19 Jun 2020 8:54

Instrument :

MSVOA_N

ClientSampled :

SU-04-061720

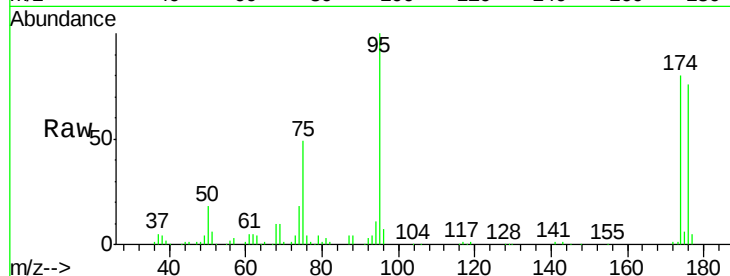
Tgt Ion: 95 Resp: 114668

Ion Ratio Lower Upper

95 100

174 79.2 0.0 158.6

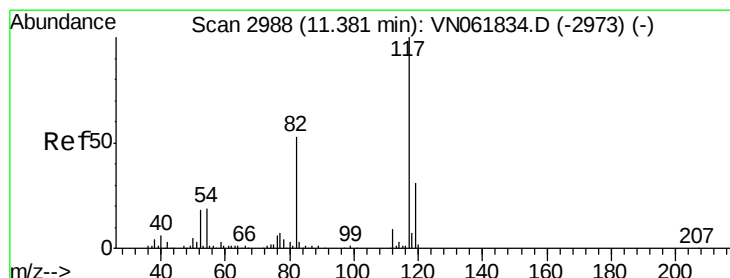
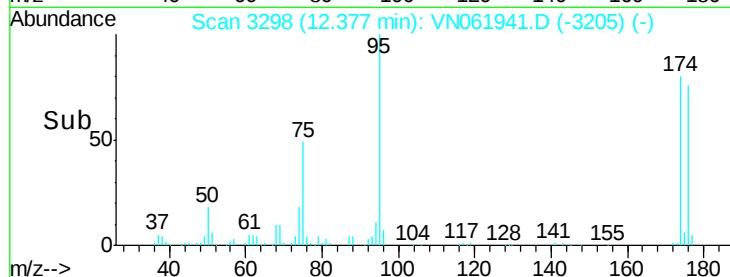
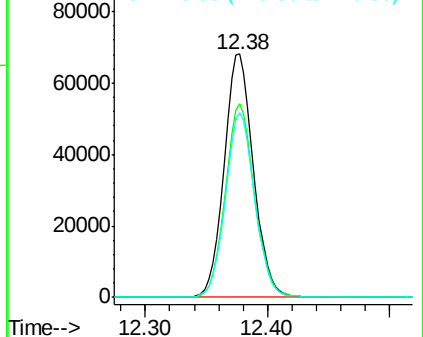
176 75.5 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061941.D

Acq: 19 Jun 2020 8:54

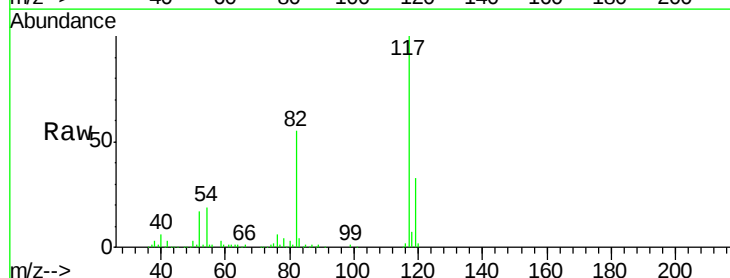
Tgt Ion: 117 Resp: 270971

Ion Ratio Lower Upper

117 100

82 55.0 42.6 64.0

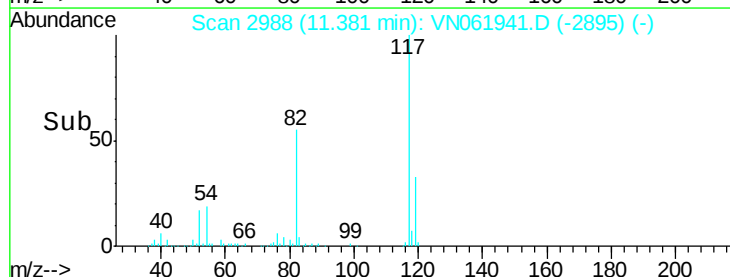
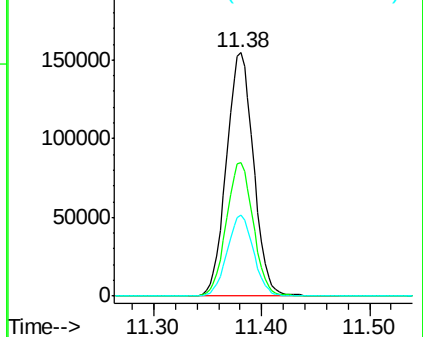
119 33.2 24.7 37.1

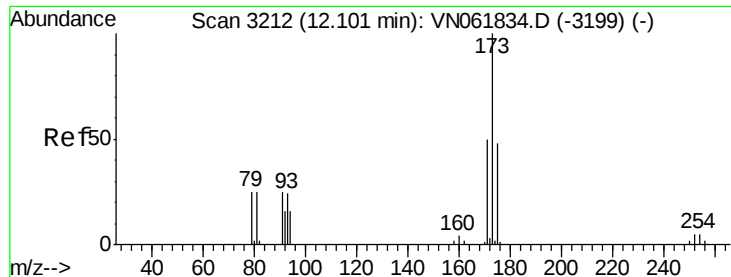


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#71

Bromoform

Concen: 0.594 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061941.D

Acq: 19 Jun 2020 8:54

Instrument :

MSVOA_N

ClientSampleId :

SU-04-061720

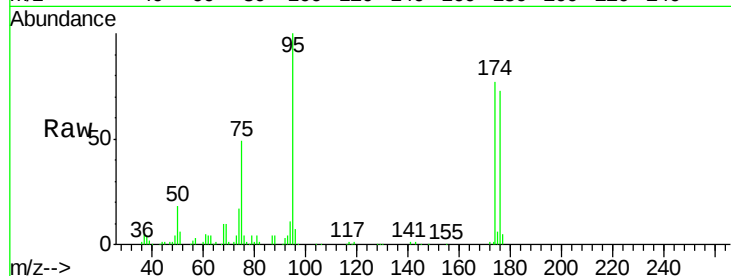
Tgt Ion:173 Resp: 864

Ion Ratio Lower Upper

173 100

175 701.3 23.9 71.7#

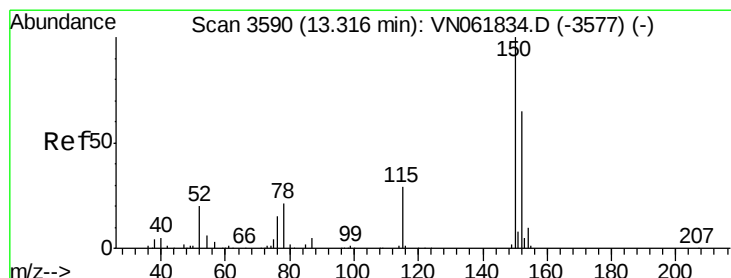
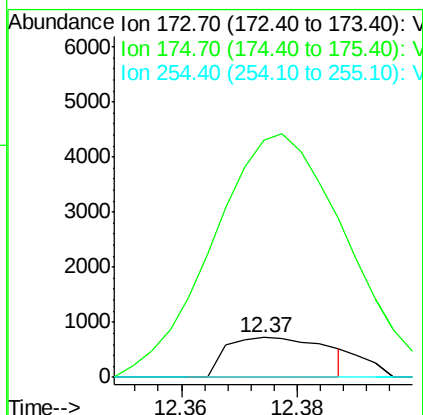
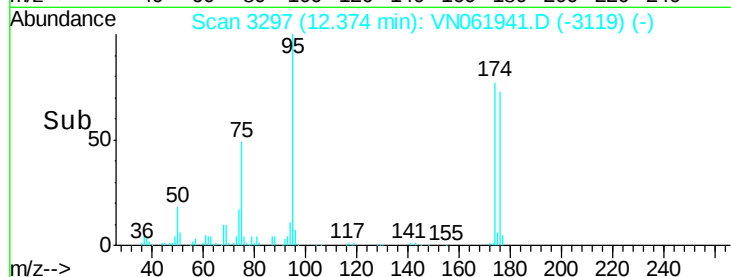
254 0.0 0.0 0.0



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: VN061941.D

Acq: 19 Jun 2020 8:54

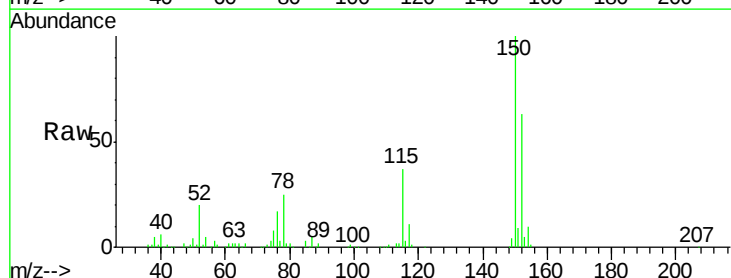
Tgt Ion:152 Resp: 101941

Ion Ratio Lower Upper

152 100

115 58.7 29.1 87.3

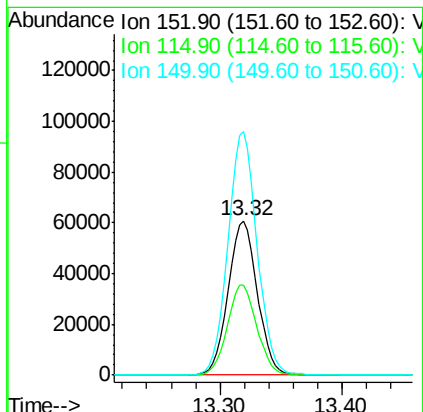
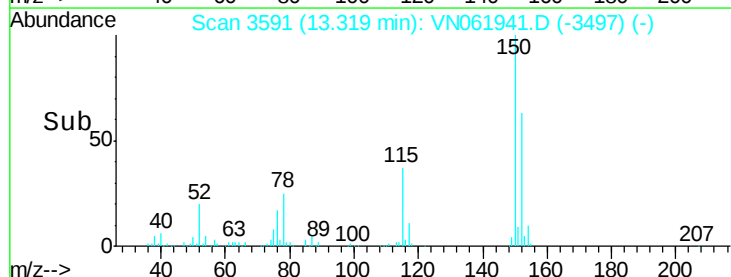
150 157.2 0.0 347.6

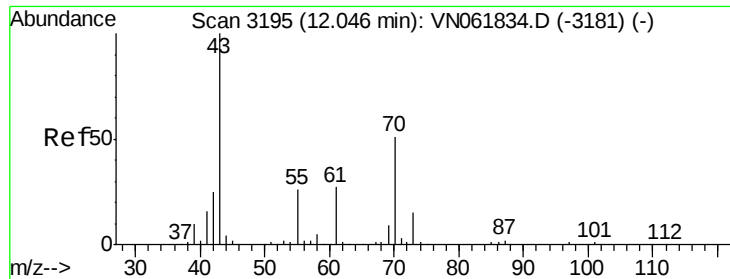


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

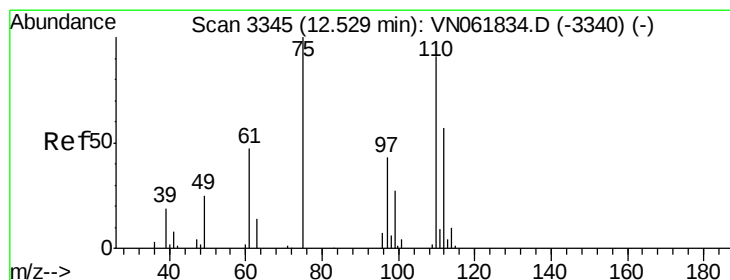
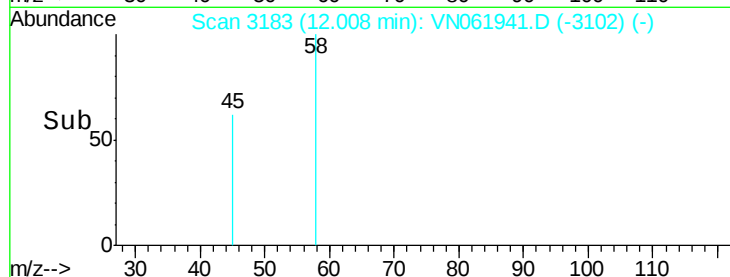
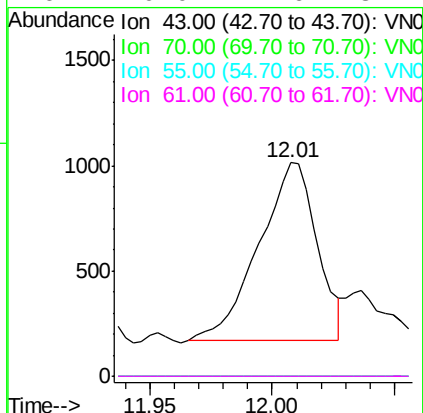
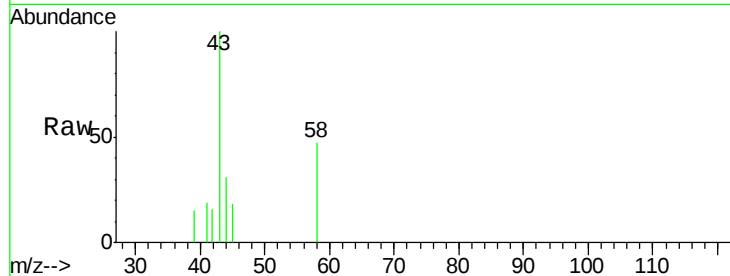




#74
N-ethyl acetate
Concen: 3.569 ug/l
RT: 12.01 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

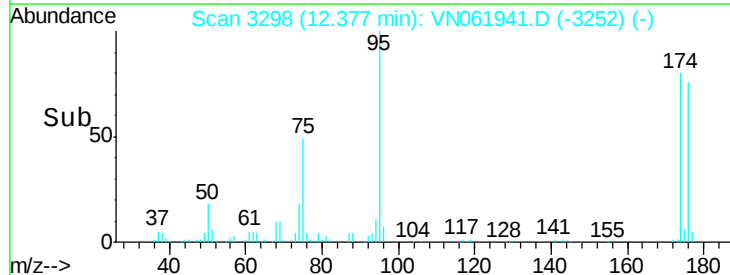
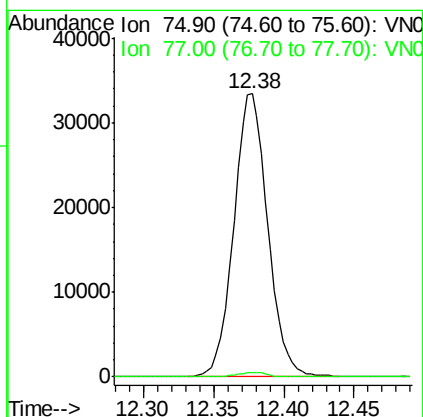
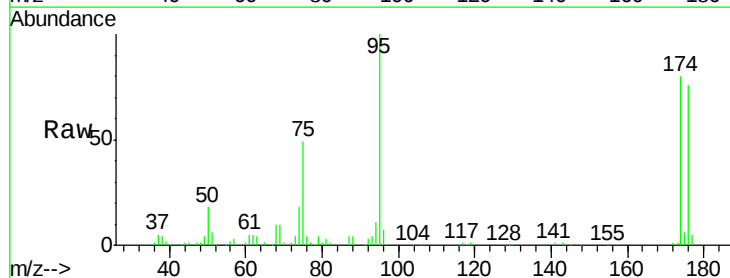
Instrument :
MSVOA_N
ClientSampleId :
SU-04-061720

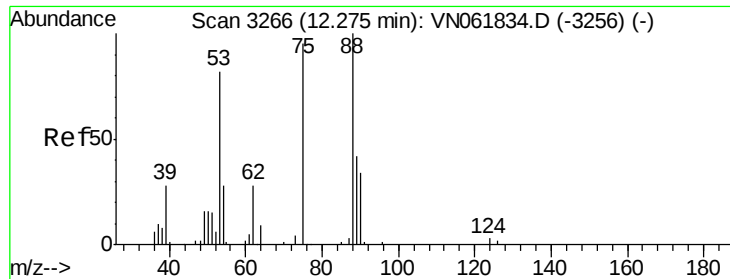
Tgt Ion: 43 Resp: 1410
Ion Ratio Lower Upper
43 100
70 0.0 40.6 60.8#
55 0.0 21.5 32.3#
61 0.0 21.6 32.4#



#76
1,2,3-Trichloropropane
Concen: 28.089 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Tgt Ion: 75 Resp: 56216
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

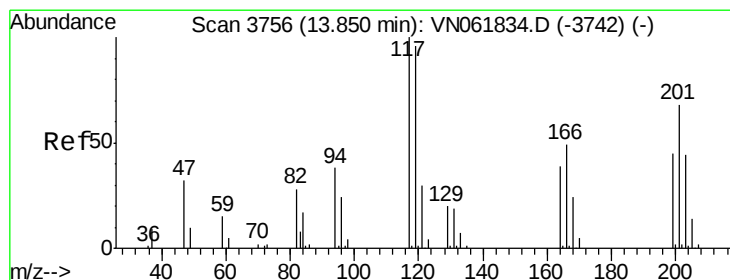
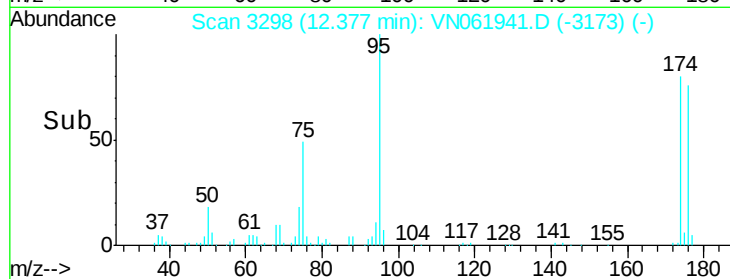
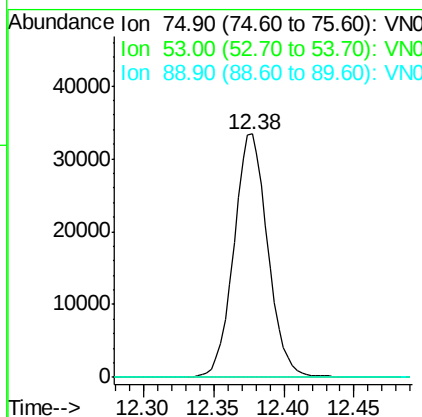
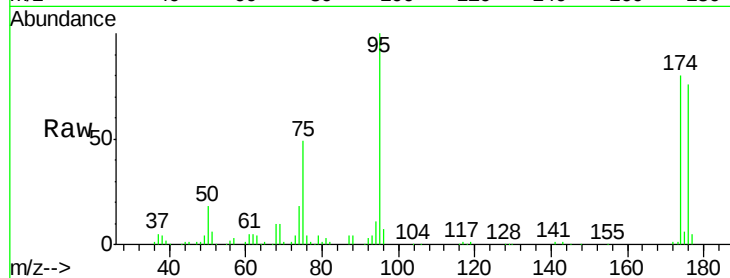




#81
trans-1,4-Dichloro-2-butene
Concen: 76.610 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Instrument :
MSVOA_N
ClientSampleId :
SU-04-061720

Tgt Ion: 75 Resp: 56216
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 36.0 54.0#



#90
Hexachloroethane
Concen: 0.332 ug/l
RT: 13.97 min Scan# 3794
Delta R.T. 0.12 min
Lab File: VN061941.D
Acq: 19 Jun 2020 8:54

Tgt Ion: 117 Resp: 360
Ion Ratio Lower Upper
117 100
201 0.0 34.6 103.8#

