

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061581.D
 Acq On : 29 May 2020 20:40
 Operator : JC/MD
 Sample : L2790-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:46:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	260992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	475995	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	491080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	221275	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	171273	55.08	ug/l	0.00
Spiked Amount			Recovery	=	110.16%	
35) Dibromofluoromethane	7.55	113	135210	56.00	ug/l	0.00
Spiked Amount			Recovery	=	112.00%	
50) Toluene-d8	10.06	98	604328	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
62) 4-Bromofluorobenzene	12.38	95	227521	55.73	ug/l	0.00
Spiked Amount			Recovery	=	111.46%	

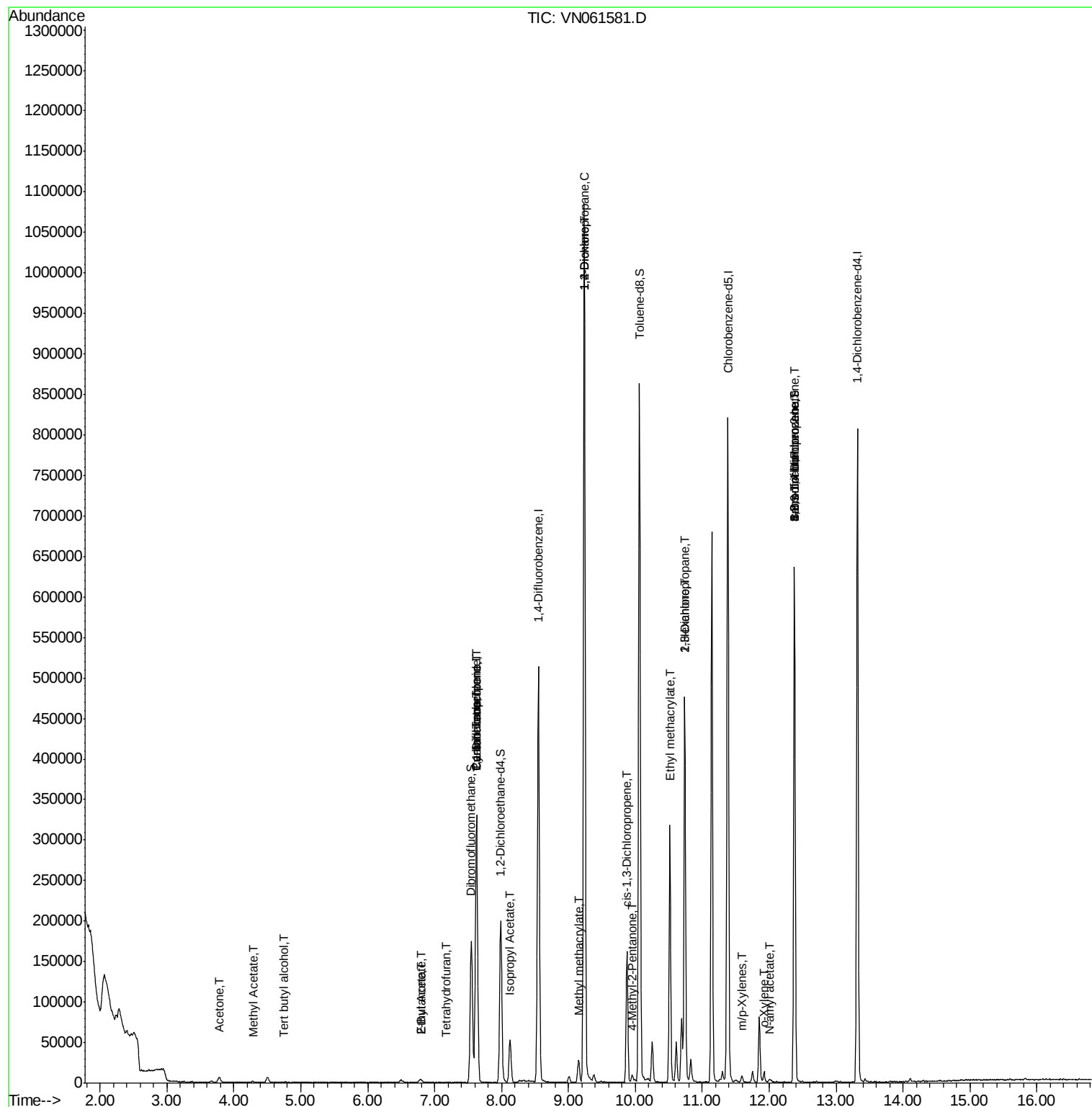
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	471	1.139	ug/l #	72
16) Acetone	3.78	43	10694	6.437	ug/l	94
18) Methyl Acetate	4.29	43	2173	0.772	ug/l #	83
20) Methylene Chloride	4.50	84	3096	Below Cal		92
25) 2-Butanone	6.79	43	3671	2.491	ug/l	90
29) Tetrahydrofuran	7.18	42	329	0.339	ug/l #	32
31) Cyclohexane	7.62	56	5277	1.204	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	20445	4.852	ug/l #	47
37) Ethyl Acetate	6.79	43	3671	1.082	ug/l #	66
38) Carbon Tetrachloride	7.63	117	26603	6.545	ug/l #	16
43) Isopropyl Acetate	8.13	43	61821	10.125	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1523	0.493	ug/l #	44
48) Methyl methacrylate	9.14	41	3950	1.438	ug/l #	5
49) 1,4-Dioxane	9.23	88	30	0.705	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	5765	1.675	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	32034	5.895	ug/l #	63
56) Ethyl methacrylate	10.52	69	1178	0.249	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5028	0.930	ug/l #	42
59) 2-Hexanone	10.74	43	62899	25.453	ug/l #	51
68) m/p-Xylenes	11.59	106	2735	0.391	ug/l	84
69) o-Xylene	11.92	106	1592	0.240	ug/l	96
71) Bromoform	12.37	173	1729	0.590	ug/l #	1
74) N-amyl acetate	12.00	43	3508	0.690	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	113535	28.217	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113535	72.158	ug/l #	15

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

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 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: VN061581.D

Acq: 29 May 2020 20:40

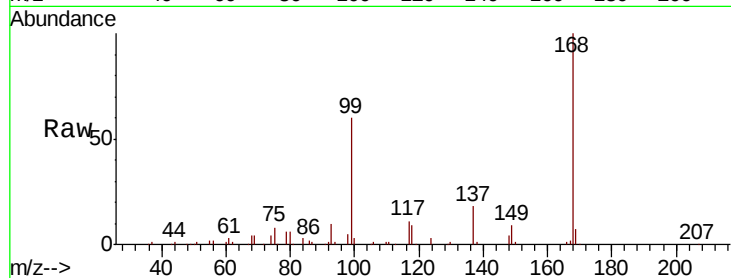
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 260992

Ion Ratio Lower Upper

168 100

99 59.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

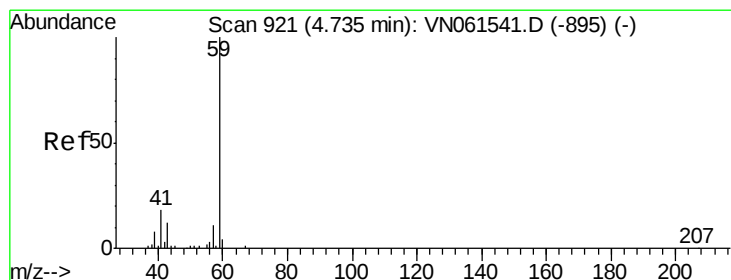
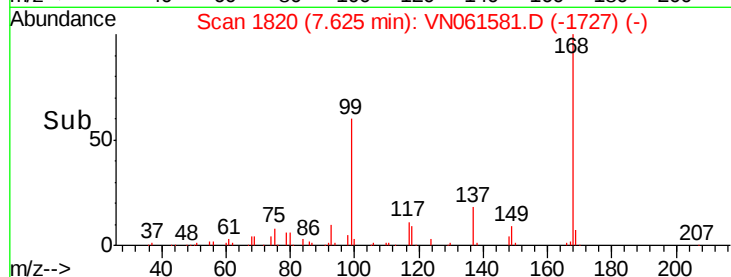
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.139 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN061581.D

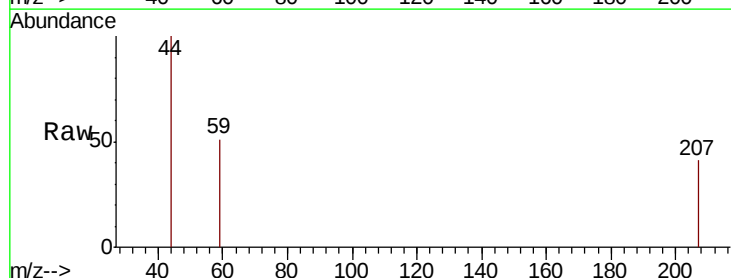
Acq: 29 May 2020 20:40

Tgt Ion: 59 Resp: 471

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

400

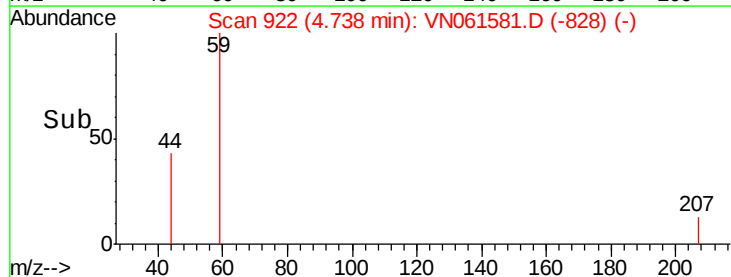
300

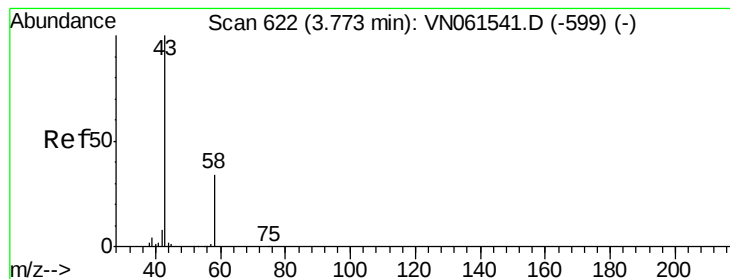
200

100

0

Time--> 4.72 4.74 4.76 4.78





#16

Acetone

Concen: 6.437 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061581.D

Acq: 29 May 2020 20:40

Instrument :

MSVOA_N

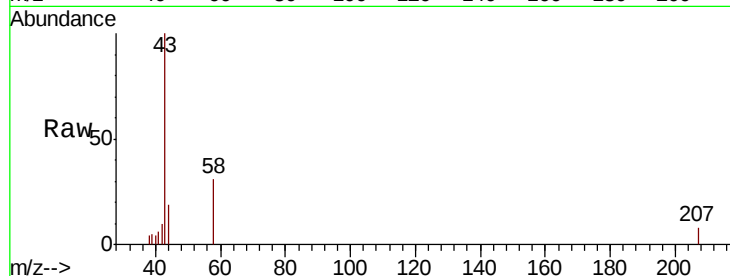
ClientSampled :

Tot Ion: 43 Resp: 10694

Ion Ratio Lower Upper

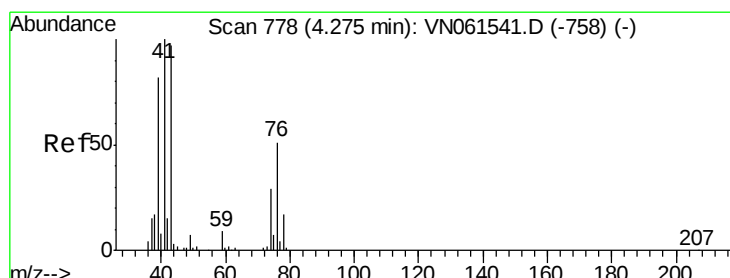
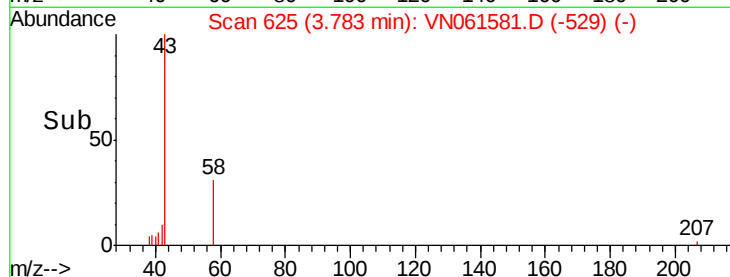
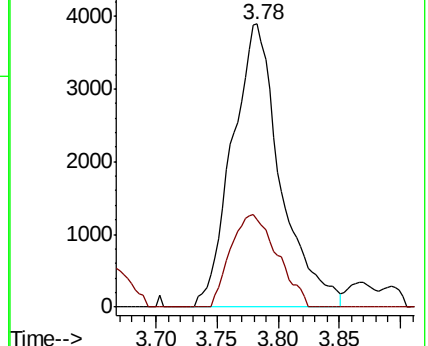
43 100

58 30.8 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN061581.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN061581.D (-529) (-)



#18

Methyl Acetate

Concen: 0.772 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN061581.D

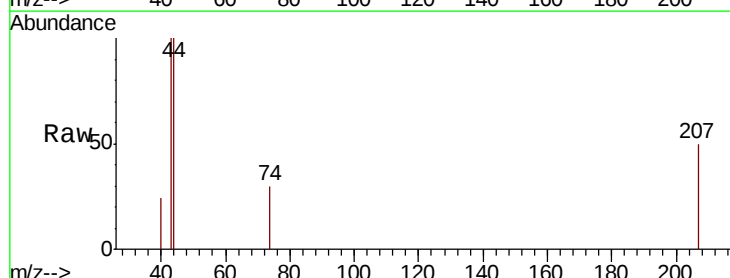
Acq: 29 May 2020 20:40

Tgt Ion: 43 Resp: 2173

Ion Ratio Lower Upper

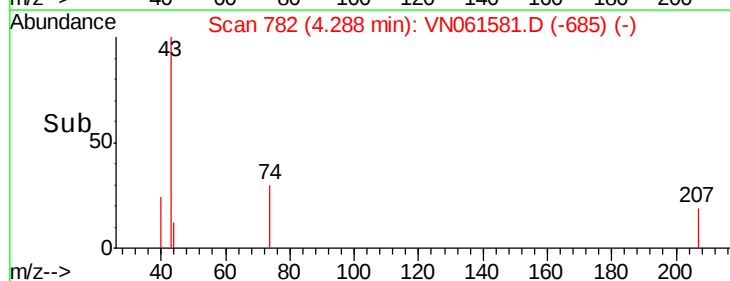
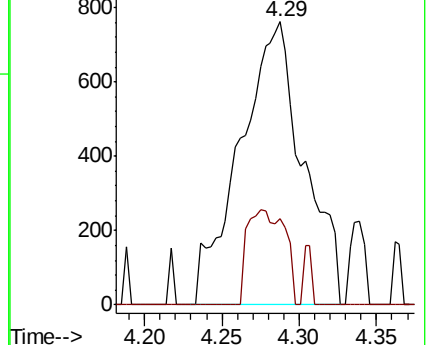
43 100

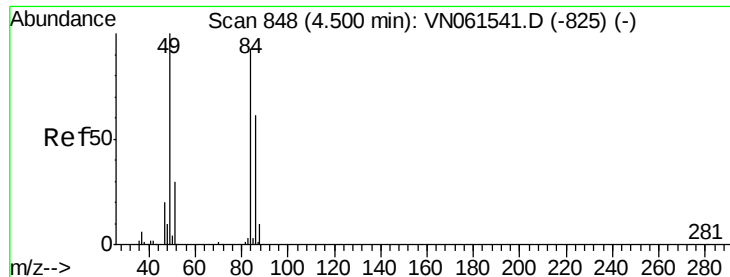
74 19.7 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061581.D (-685) (-)

Ion 74.00 (73.70 to 74.70): VN061581.D (-685) (-)

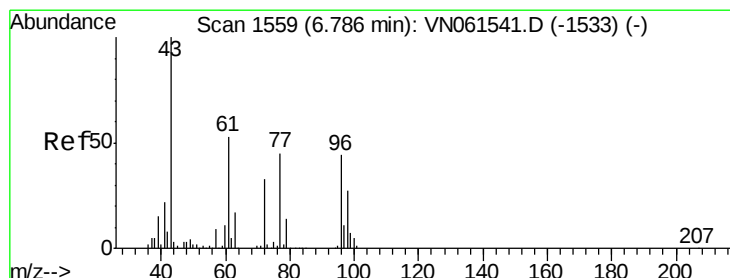
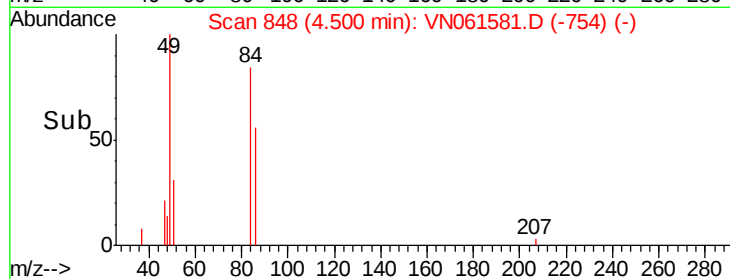
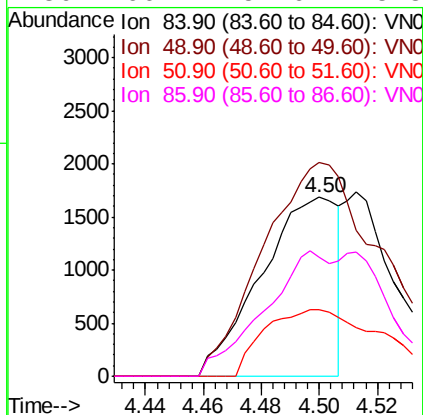
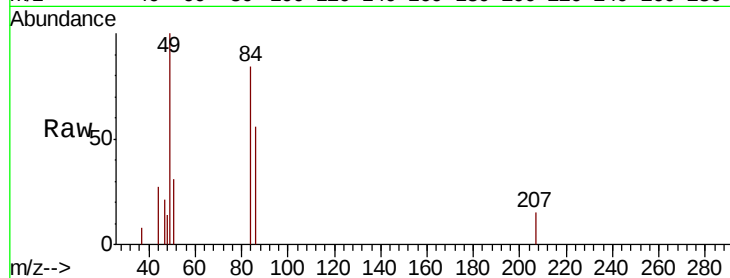




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

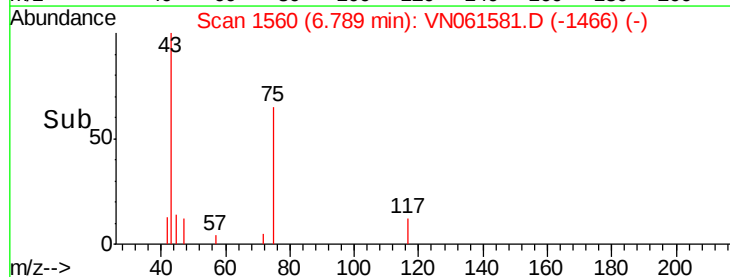
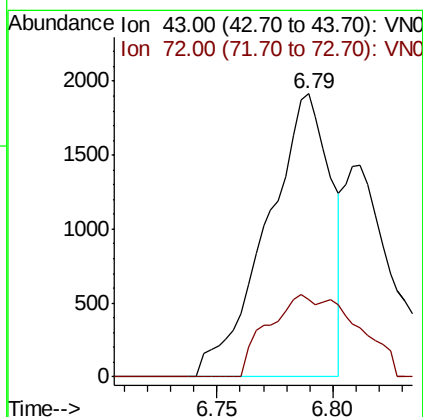
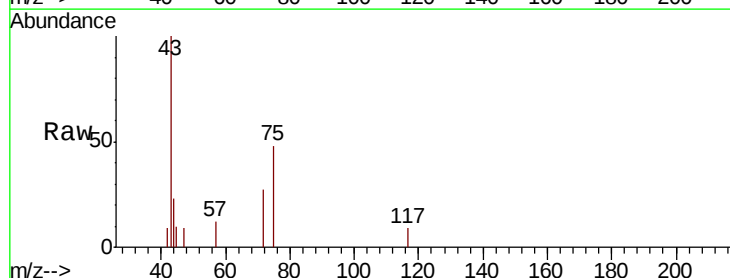
Instrument :
MSVOA_N
ClientSampled :

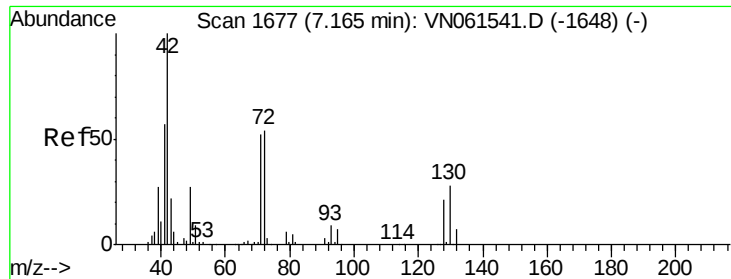
Tot Ion:	84	Resp:	3096
Ion	Ratio	Lower	Upper
84	100		
49	119.5	85.8	128.8
51	37.6	26.2	39.2
86	66.4	52.6	78.8



#25
2-Butanone
Concen: 2.491 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Tgt Ion:	43	Resp:	3671
Ion	Ratio	Lower	Upper
43	100		
72	27.2	26.0	39.0

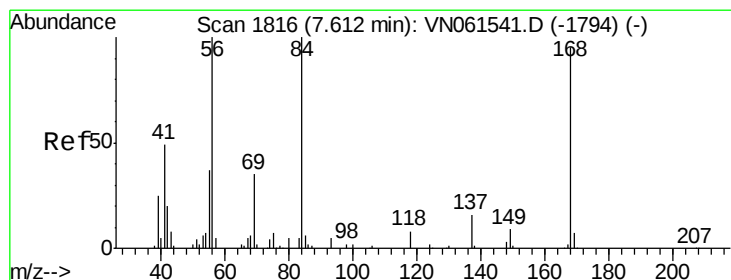
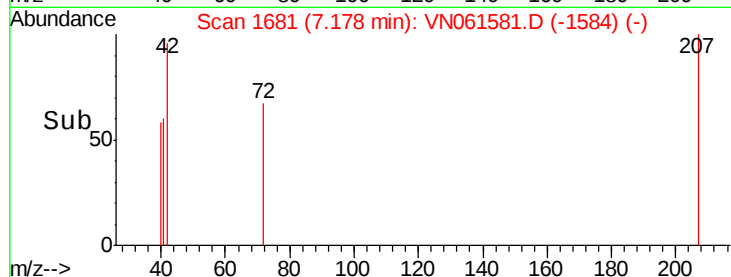
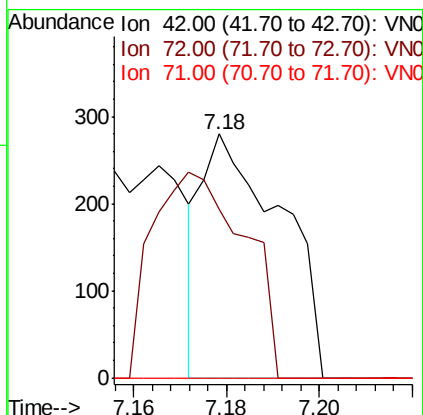
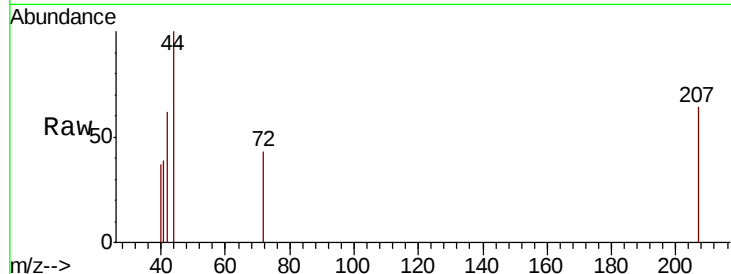




#29
Tetrahydrofuran
Concen: 0.339 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

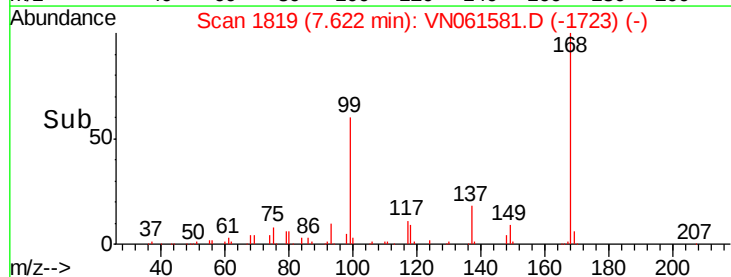
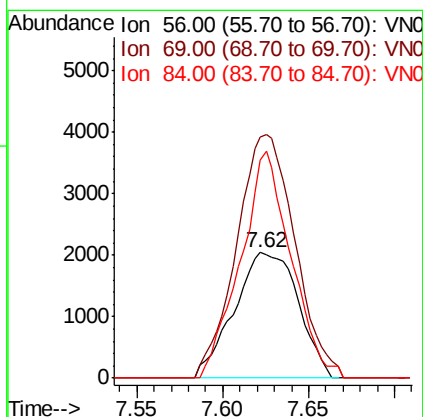
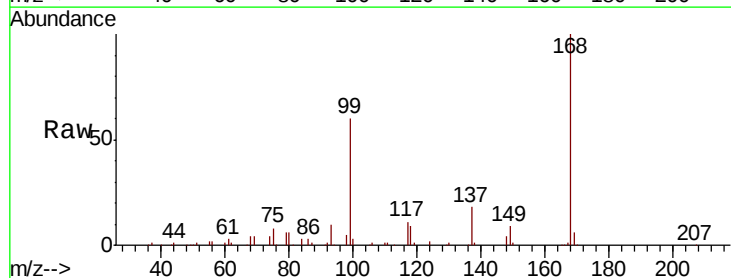
Instrument :
MSVOA_N
ClientSampled :

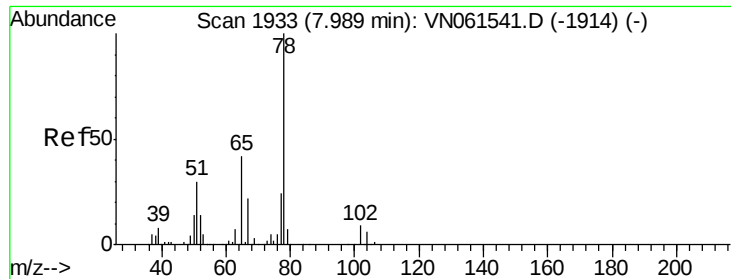
Tot Ion: 42 Resp: 329
Ion Ratio Lower Upper
42 100
72 99.7 43.6 65.4#
71 0.0 41.2 61.8#



#31
Cyclohexane
Concen: 1.204 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Tgt Ion: 56 Resp: 5277
Ion Ratio Lower Upper
56 100
69 192.7 27.8 41.8#
84 173.3 79.9 119.9#

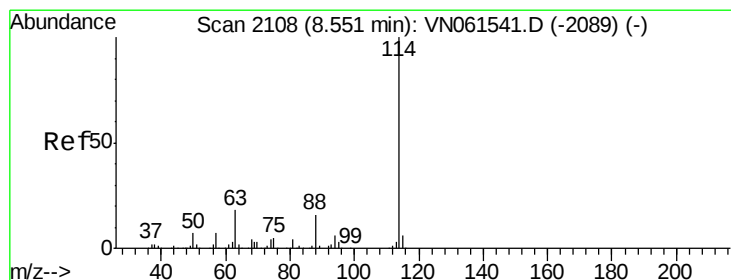
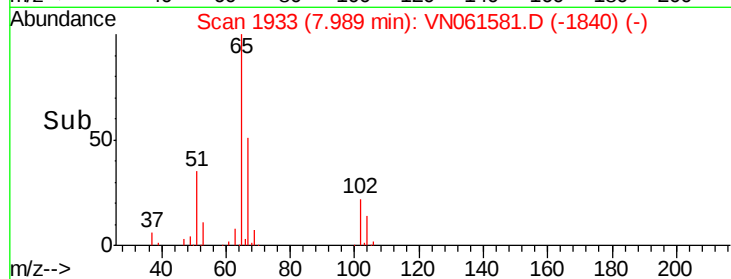
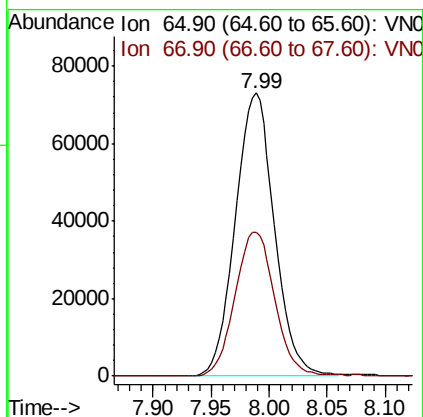
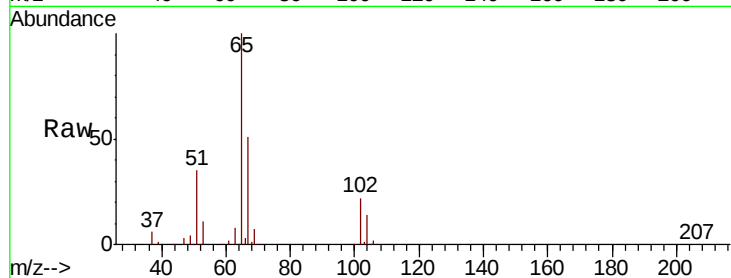




#33
 1,2-Dichloroethane-d4
 Concen: 55.080 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

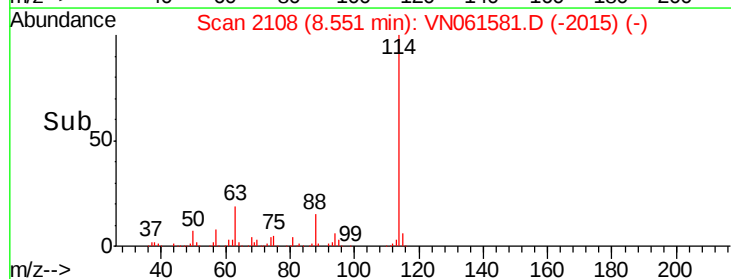
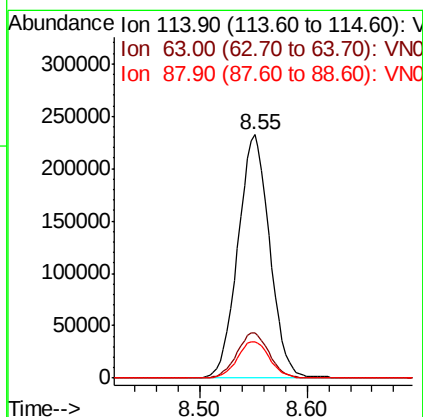
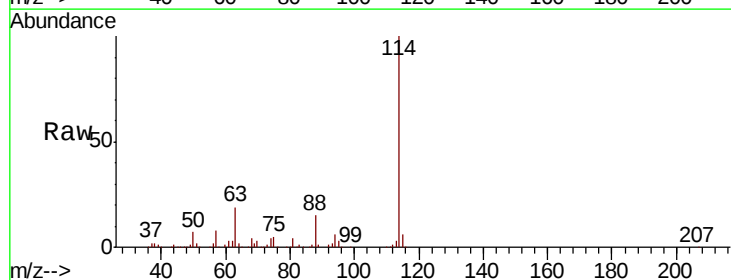
Instrument :
 MSVOA_N
 ClientSampleId :

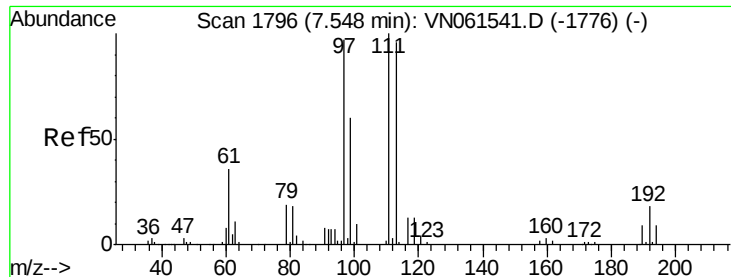
Tot Ion: 65 Resp: 171273
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Tgt Ion: 114 Resp: 475995
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 35.8
 88 15.1 0.0 31.0

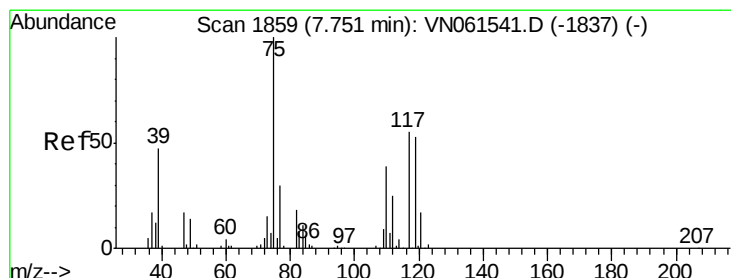
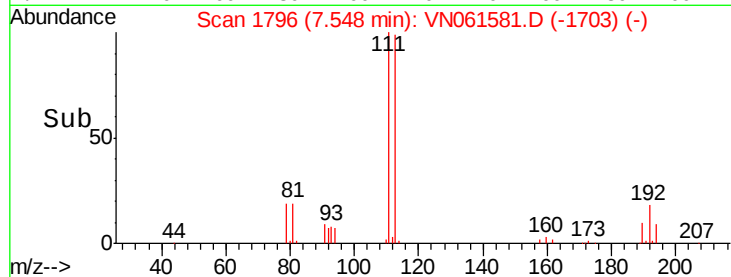
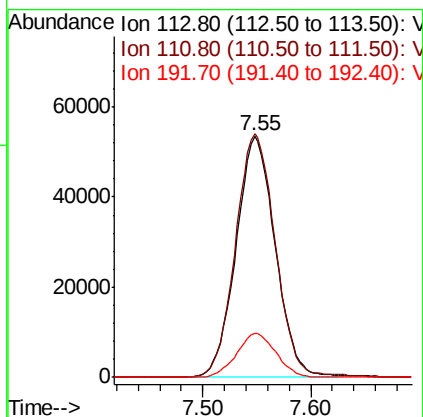
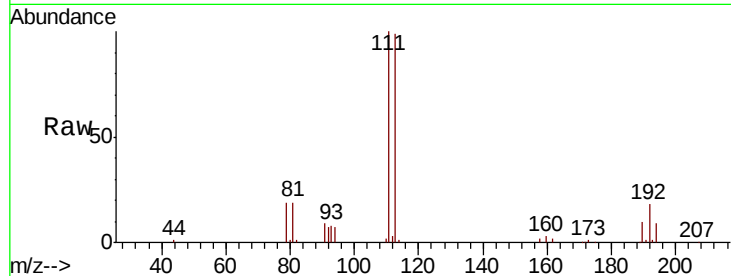




#35
 Dibromofluoromethane
 Concen: 55.996 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

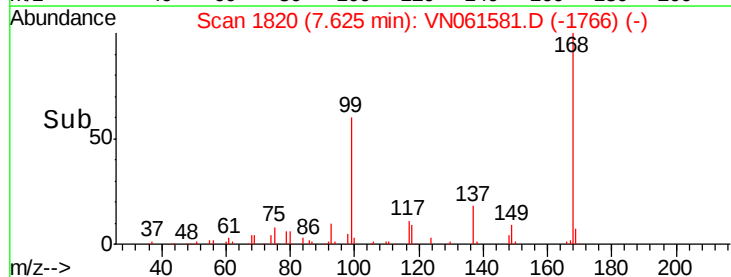
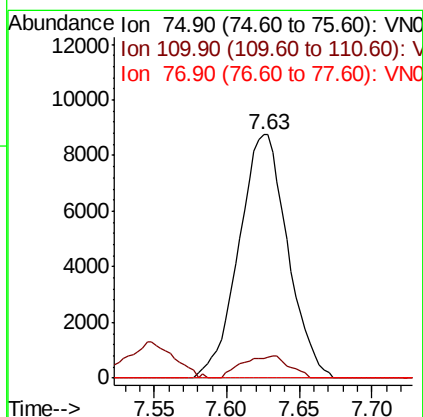
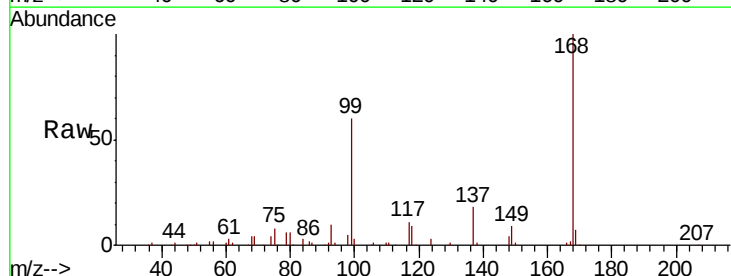
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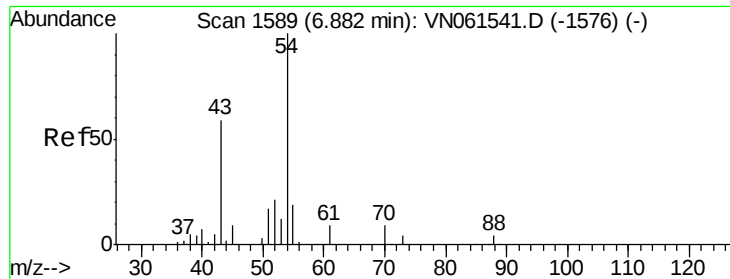
Tot Ion:113 Resp: 135210
 Ion Ratio Lower Upper
 113 100
 111 103.1 83.4 125.0
 192 18.2 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.852 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Tgt Ion: 75 Resp: 20445
 Ion Ratio Lower Upper
 75 100
 110 8.7 19.5 58.5#
 77 0.0 24.7 37.1#

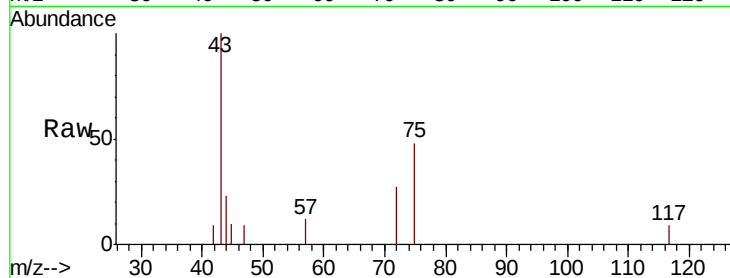




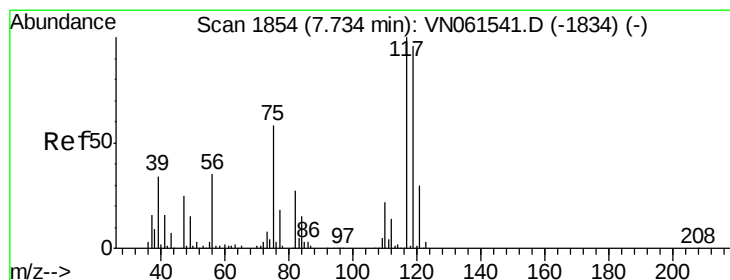
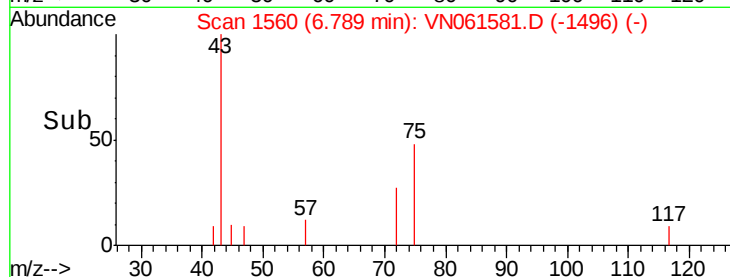
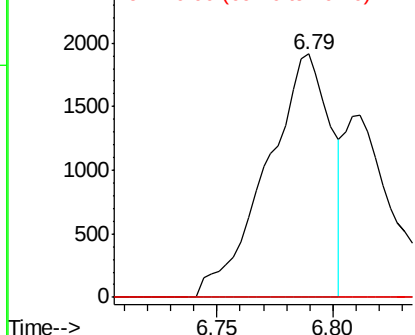
#37
Ethyl Acetate
Concen: 1.082 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. -0.09 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 3671
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.4#
70 0.0 9.4 14.2#

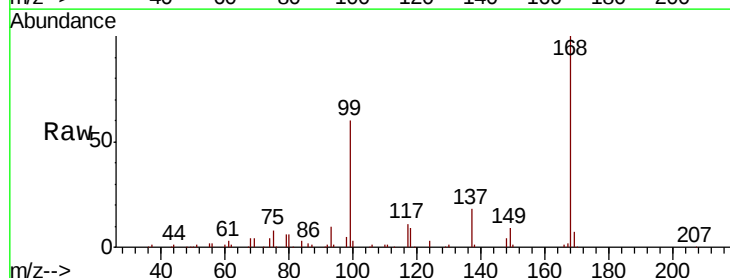


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

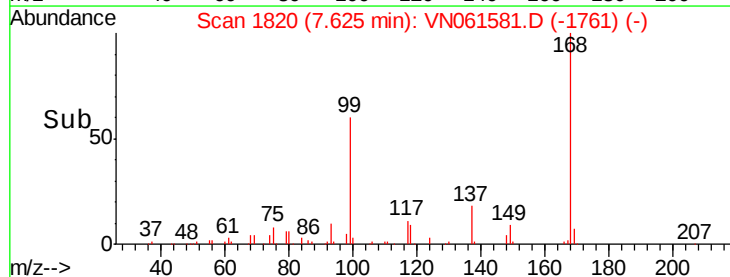
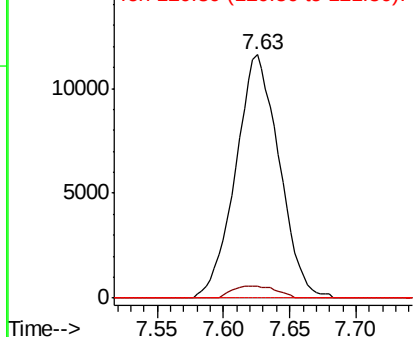


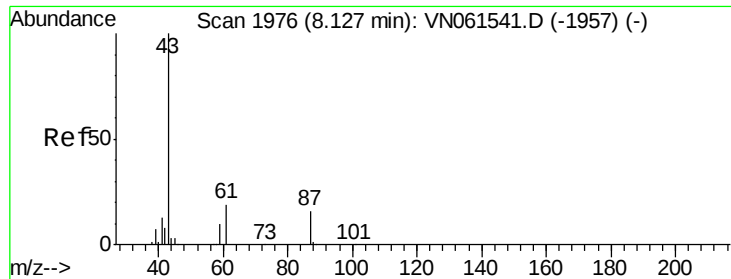
#38
Carbon Tetrachloride
Concen: 6.545 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Tgt Ion: 117 Resp: 26603
Ion Ratio Lower Upper
117 100
119 4.7 76.5 114.7#
121 0.0 24.1 36.1#



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



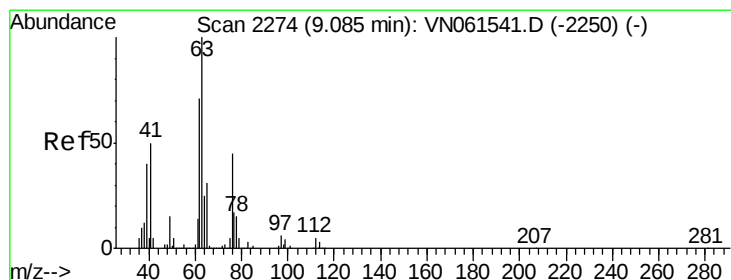
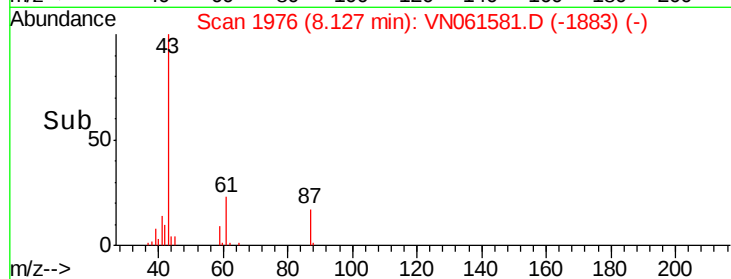
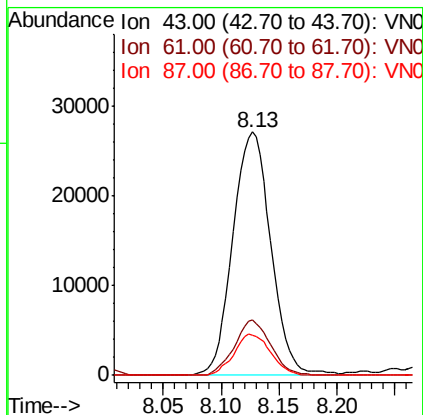
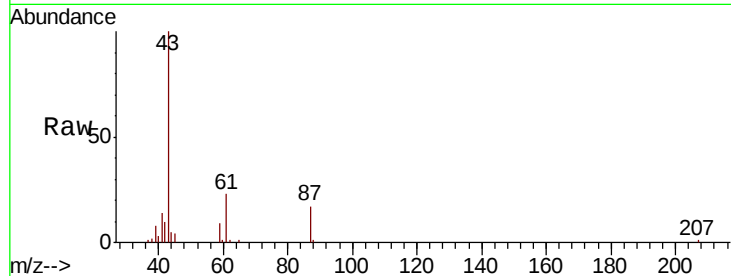


#43

Isopropyl Acetate
 Concen: 10.125 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Instrument :
 MSVOA_N
 ClientSampleId :

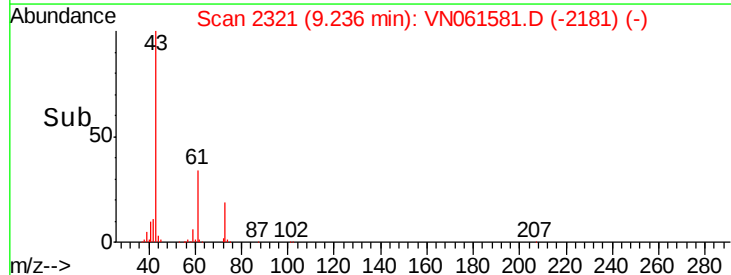
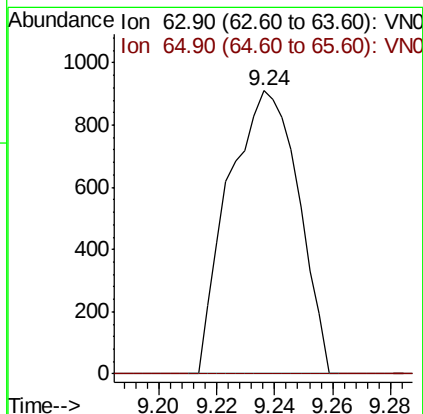
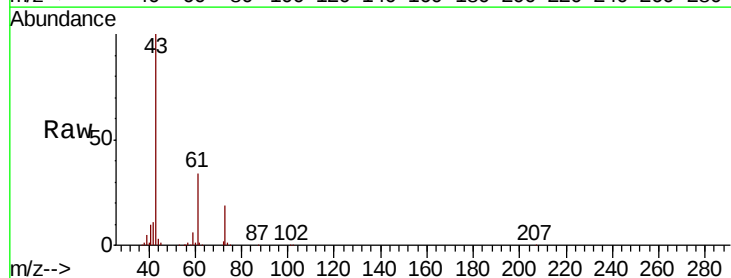
Tot Ion	43	Resp	61821
Ion Ratio	Lower	Upper	
43	100		
61	21.6	23.6	35.4#
87	16.1	13.0	19.6

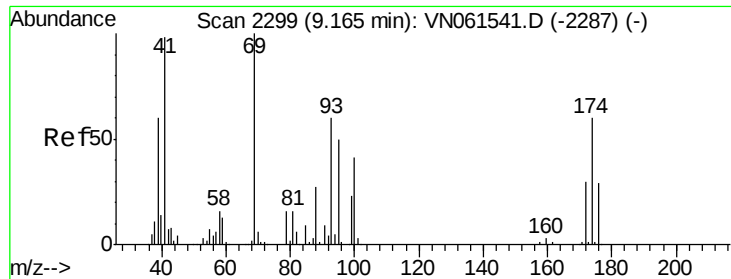


#45

1,2-Dichloropropane
 Concen: 0.493 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Tgt Ion	63	Resp	1523
Ion Ratio	Lower	Upper	
63	100		
65	0.0	24.7	37.1#

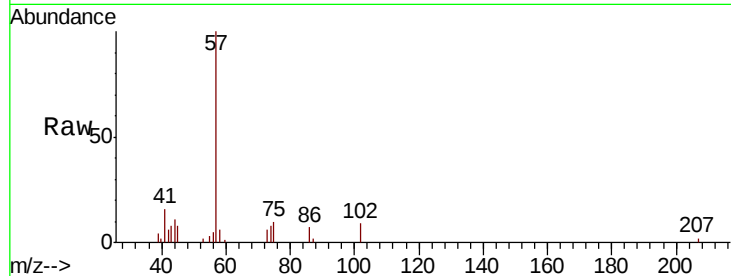




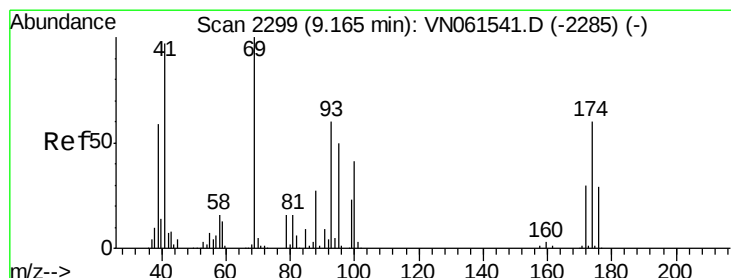
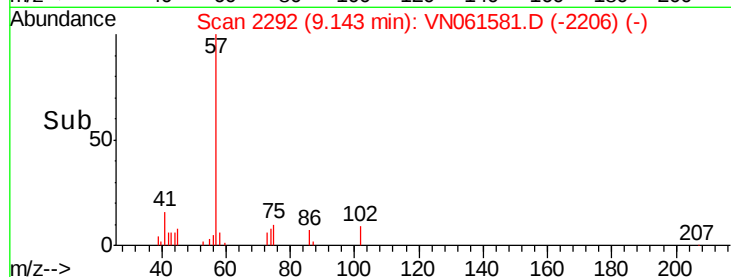
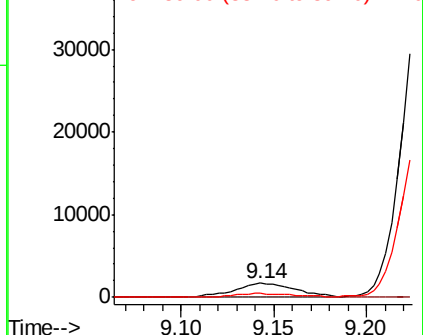
#48
Methvl methacrylate
Concen: 1.438 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3950
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#

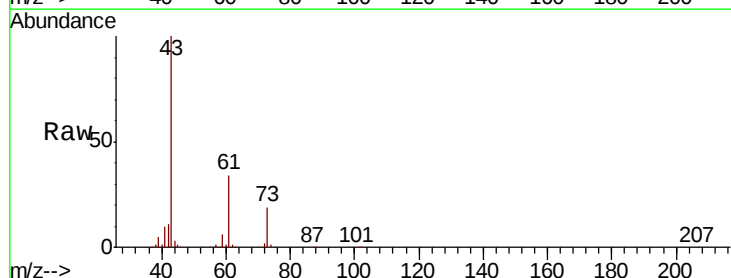


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

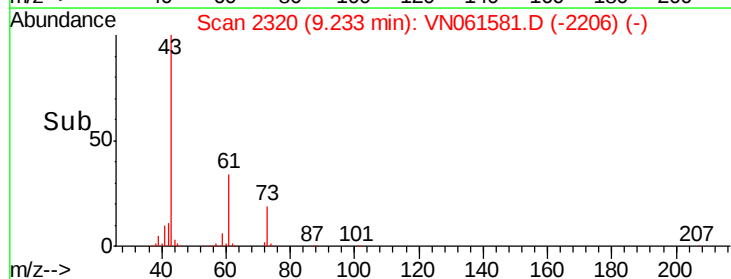
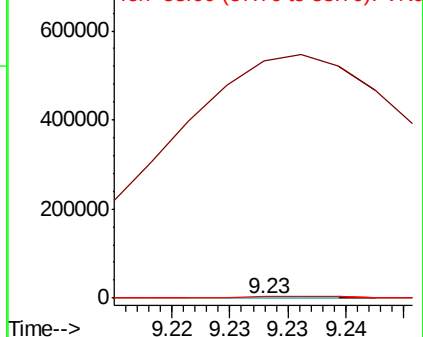


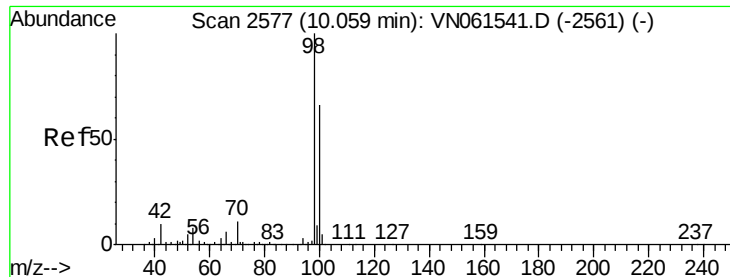
#49
1,4-Dioxane
Concen: 0.705 ug/l
RT: 9.23 min Scan# 2320
Delta R.T. 0.07 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 3363003.3 23.1 34.7#
58 16643.3 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 54.007 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061581.D

Acq: 29 May 2020 20:40

Instrument :

MSVOA_N

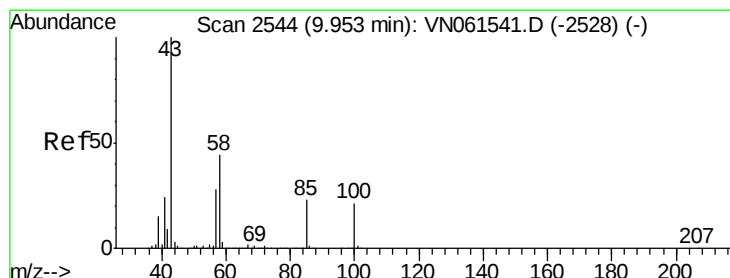
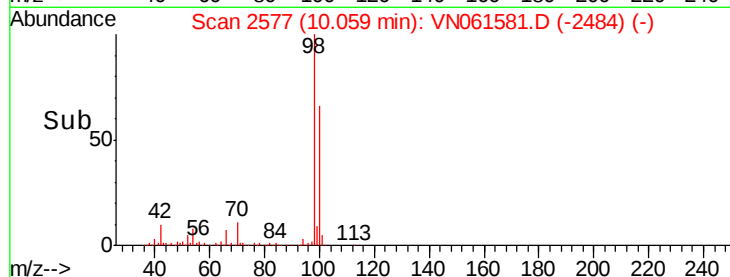
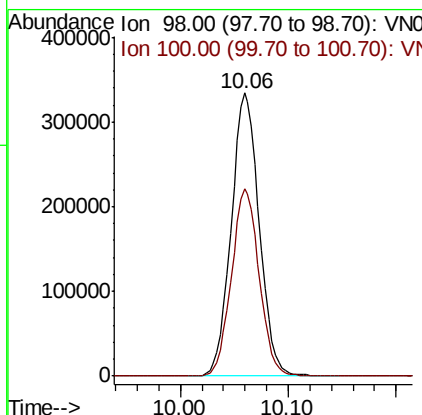
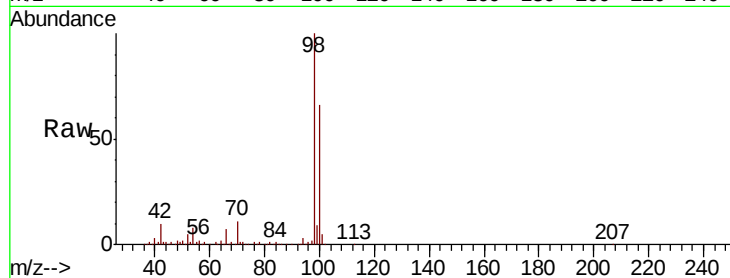
ClientSampleId :

Tot Ion: 98 Resp: 604328

Ion Ratio Lower Upper

98 100

100 65.5 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 1.675 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061581.D

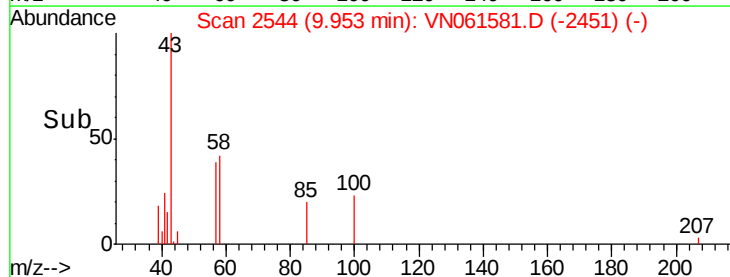
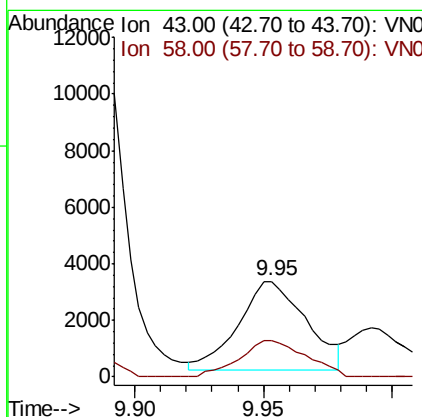
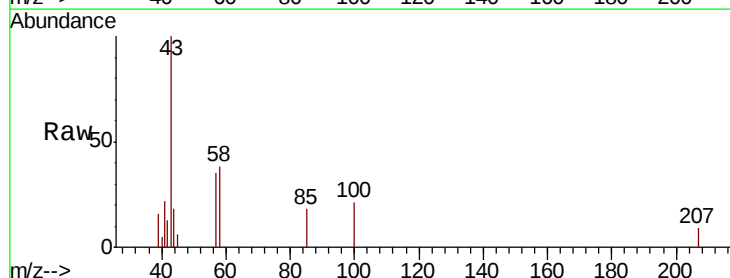
Acq: 29 May 2020 20:40

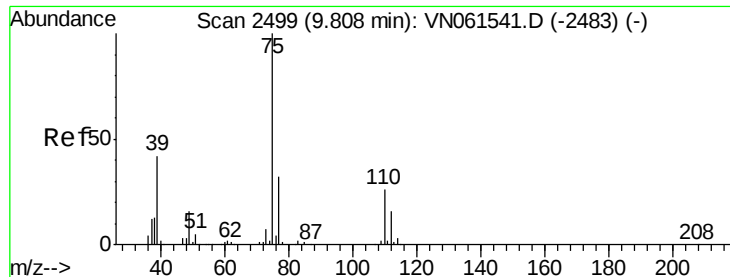
Tgt Ion: 43 Resp: 5765

Ion Ratio Lower Upper

43 100

58 40.2 35.0 52.6



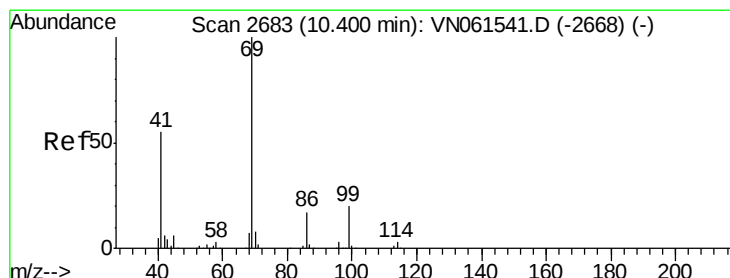
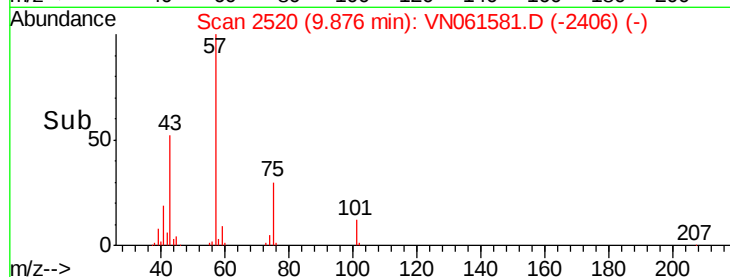
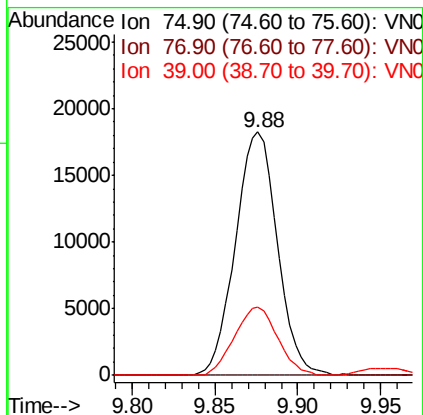
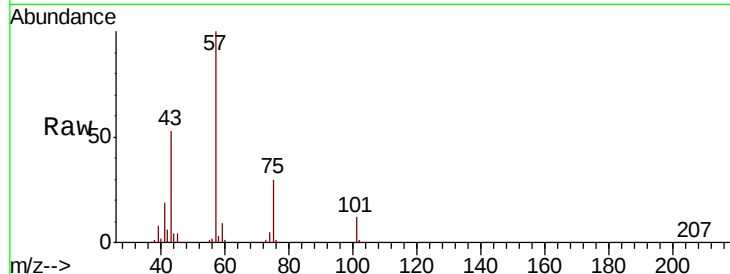


#54

cis-1,3-Dichloropropene
 Concen: 5.895 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Instrument :
 MSVOA_N
 ClientSampled :

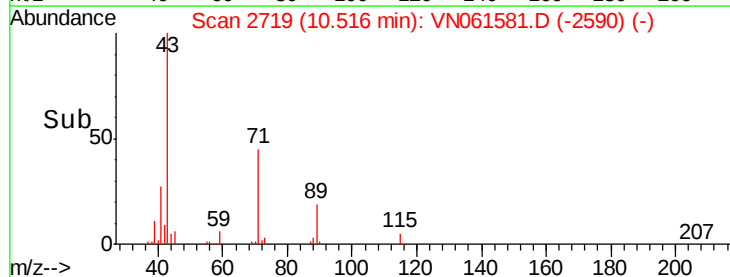
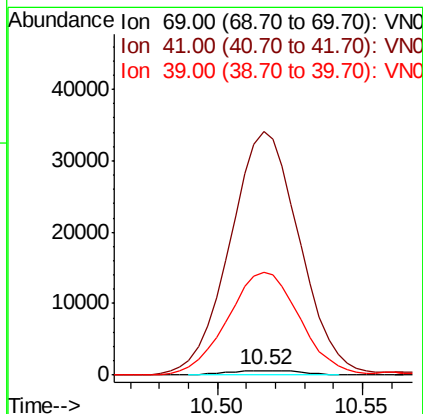
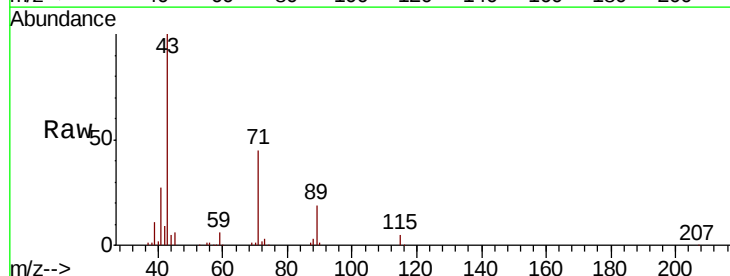
Tot Ion: 75 Resp: 32034
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 28.3 33.8 50.6#

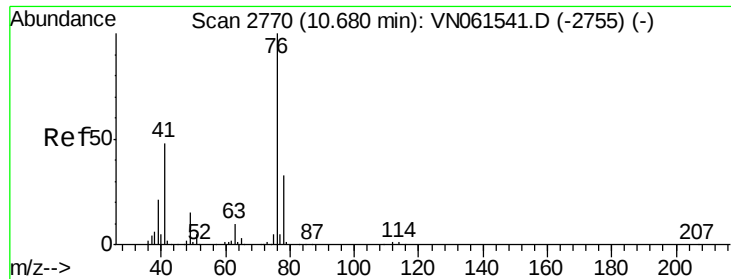


#56

Ethyl methacrylate
 Concen: 0.249 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Tgt Ion: 69 Resp: 1178
 Ion Ratio Lower Upper
 69 100
 41 4846.3 43.5 65.3#
 39 2117.2 27.0 40.6#

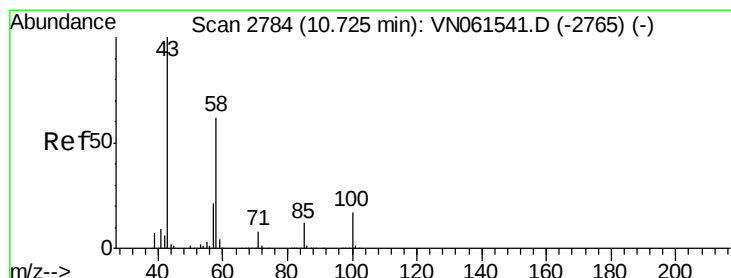
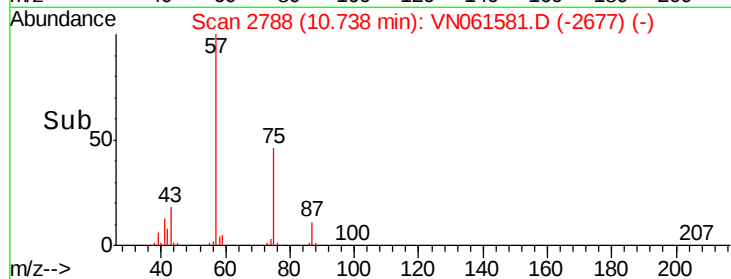
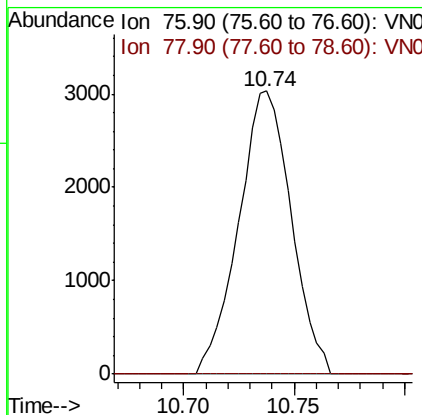
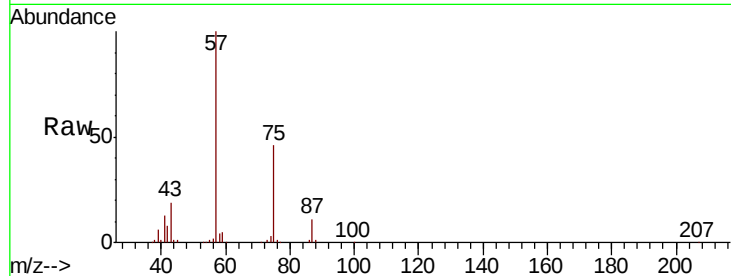




#57
 1,3-Dichloropropane
 Concen: 0.930 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

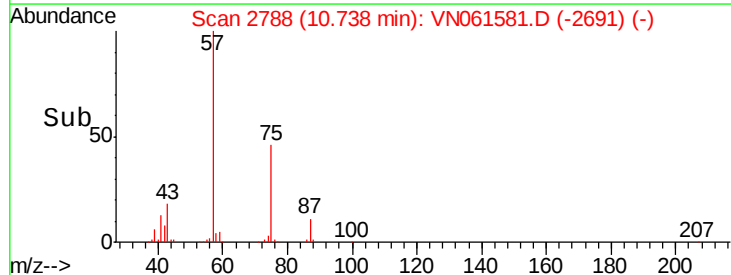
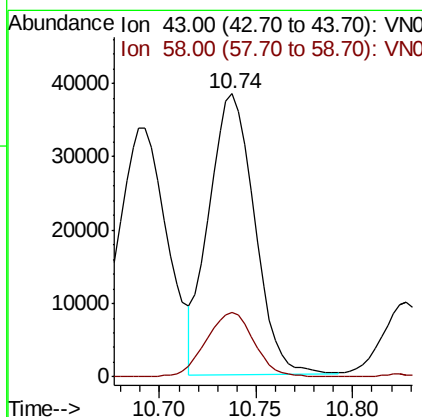
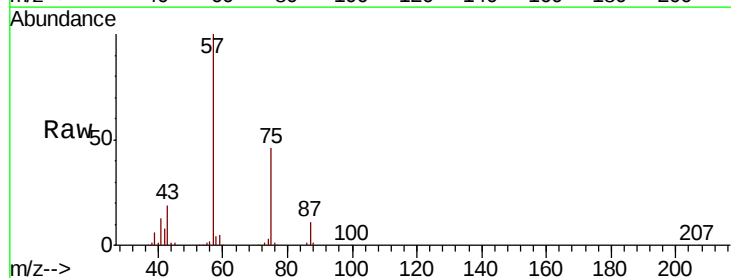
Instrument :
 MSVOA_N
 ClientSampled :

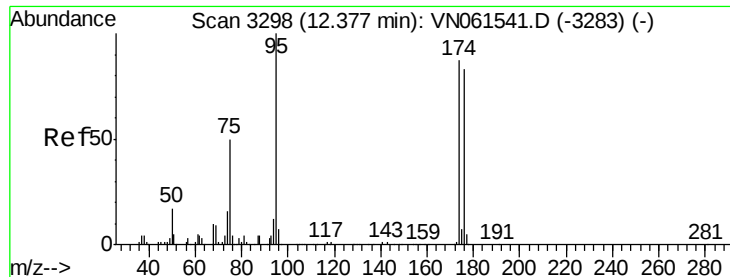
Tot Ion: 76 Resp: 5028
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 25.453 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Tgt Ion: 43 Resp: 62899
 Ion Ratio Lower Upper
 43 100
 58 23.9 30.7 92.1#

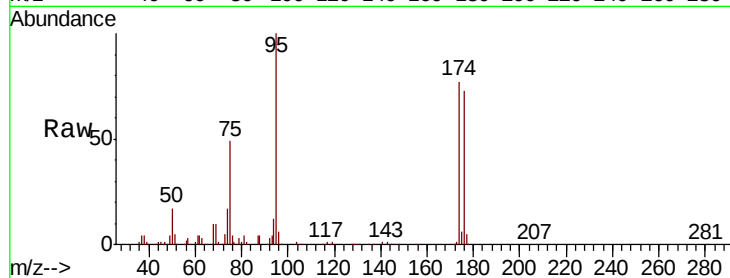




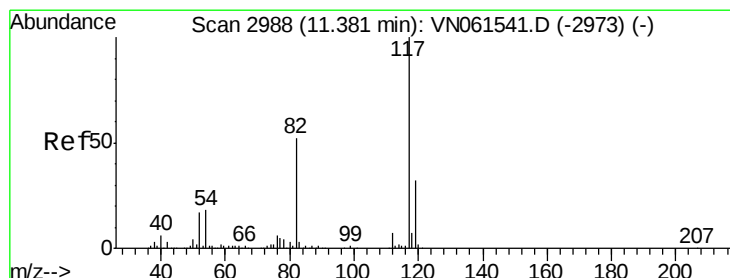
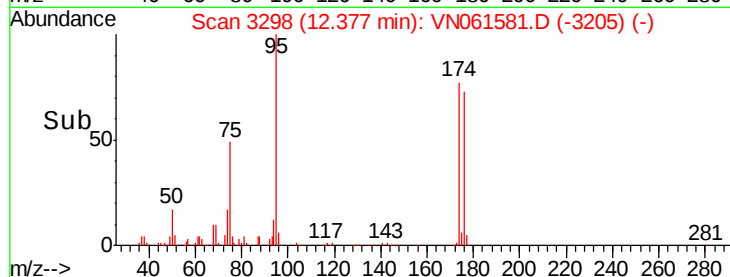
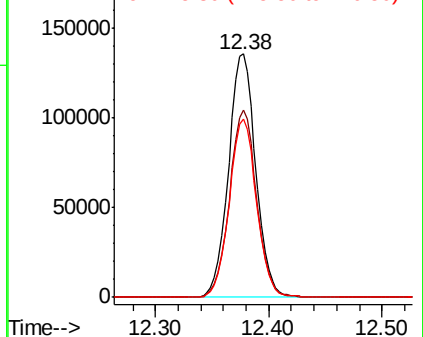
#62
4-Bromofluorobenzene
Concen: 55.732 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	172.8
176	73.2	0.0	164.8

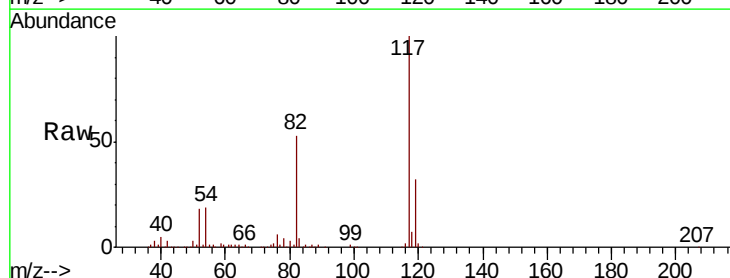


Abundance Ion 94.90 (94.60 to 95.60): VN061541.D (-3283) (-)
Ion 173.80 (173.50 to 174.50): VN061541.D (-3283) (-)
Ion 175.80 (175.50 to 176.50): VN061541.D (-3283) (-)

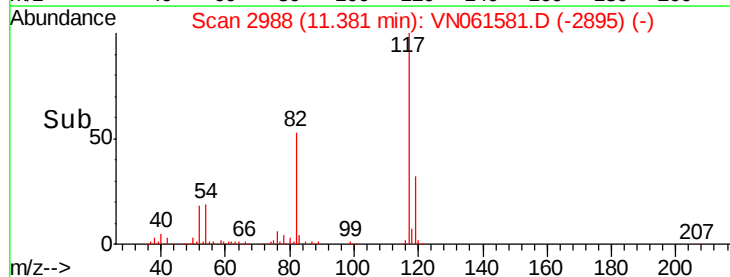
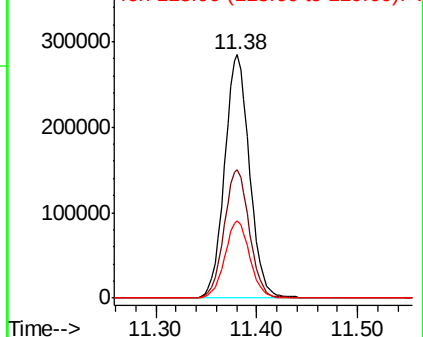


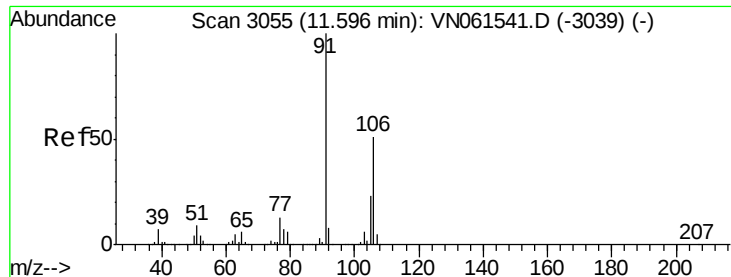
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.5	62.3
119	31.8	25.6	38.4



Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)
Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)
Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)





#68

m/p-Xylenes

Concen: 0.391 ug/l

RT: 11.59 min Scan# 3053

Delta R.T. -0.01 min

Lab File: VN061581.D

Acq: 29 May 2020 20:40

Instrument :

MSVOA_N

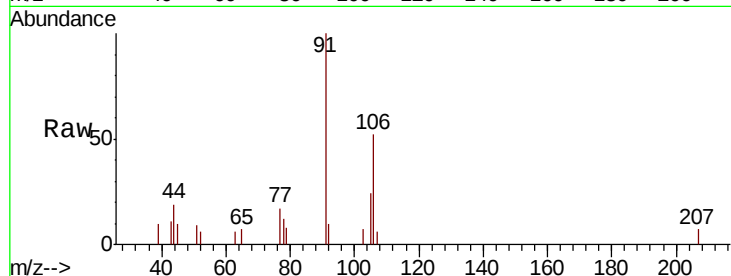
ClientSampled :

Tot Ion:106 Resp: 2735

Ion Ratio Lower Upper

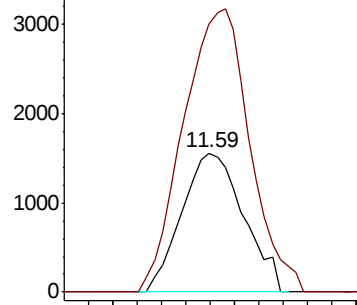
106 100

91 218.8 156.2 234.4

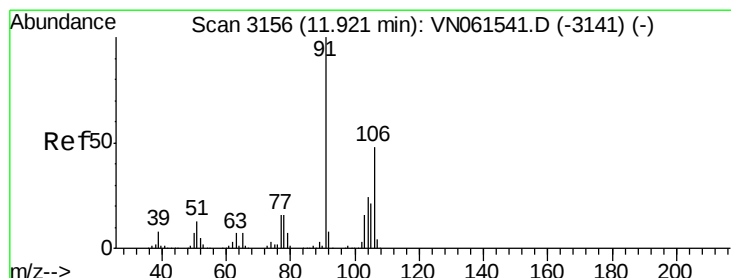
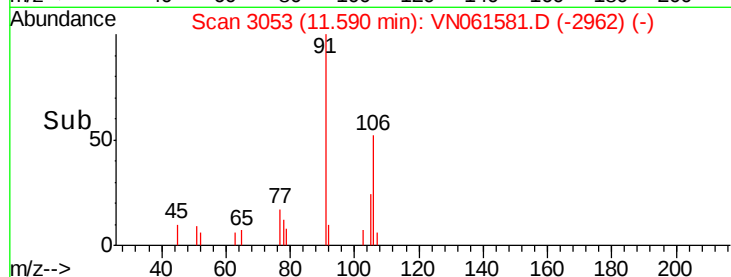


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



Time-->



#69

o-Xylene

Concen: 0.240 ug/l

RT: 11.92 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VN061581.D

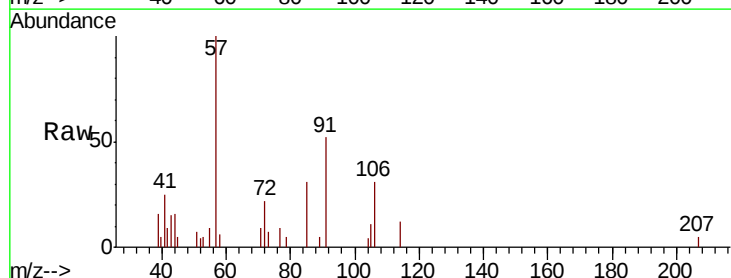
Acq: 29 May 2020 20:40

Tgt Ion:106 Resp: 1592

Ion Ratio Lower Upper

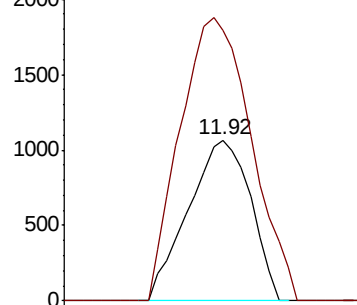
106 100

91 200.9 103.3 309.8

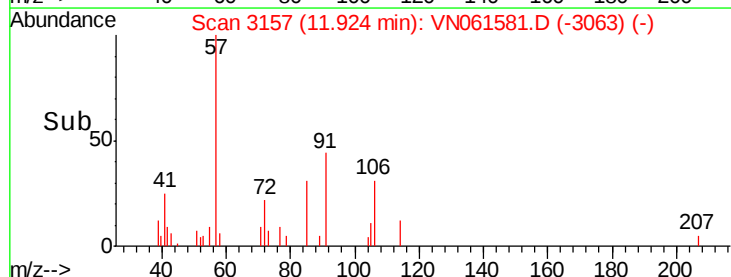


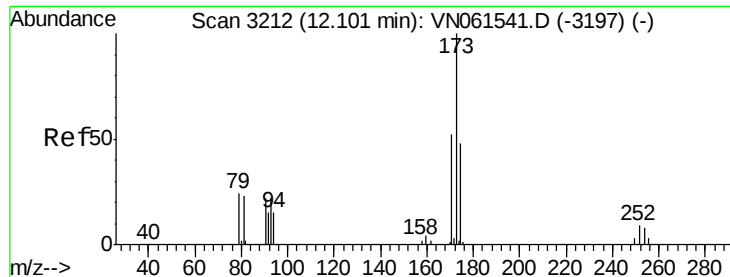
Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



Time-->





#71

Bromoform

Concen: 0.590 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061581.D

Acq: 29 May 2020 20:40

Instrument :

MSVOA_N

ClientSampled :

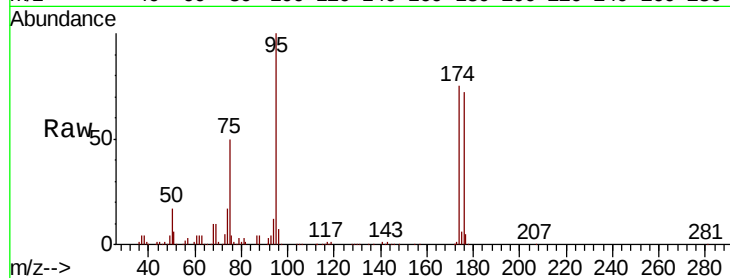
Tot Ion:173 Resp: 1729

Ion Ratio Lower Upper

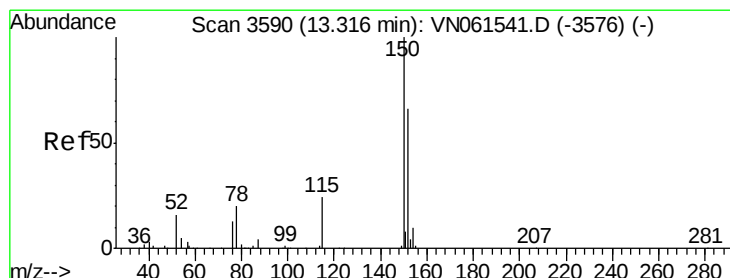
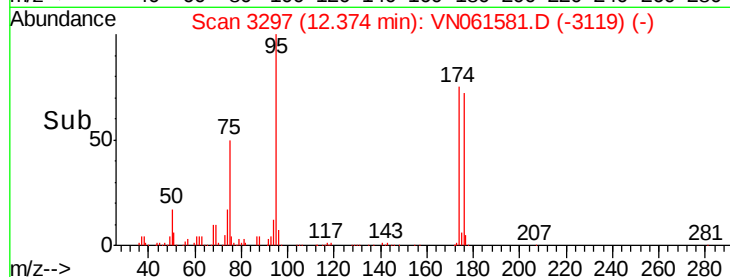
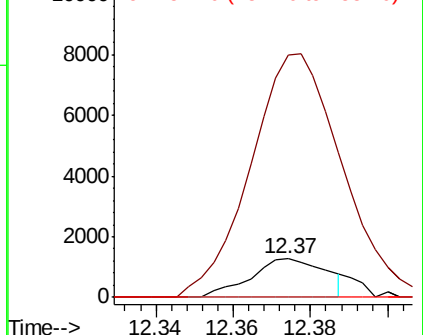
173 100

175 656.5 24.4 73.2#

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: VN061581.D

Acq: 29 May 2020 20:40

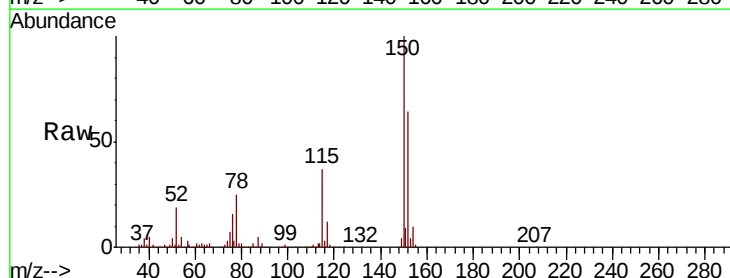
Tgt Ion:152 Resp: 221275

Ion Ratio Lower Upper

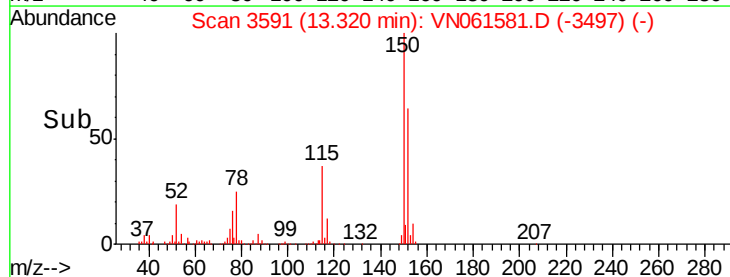
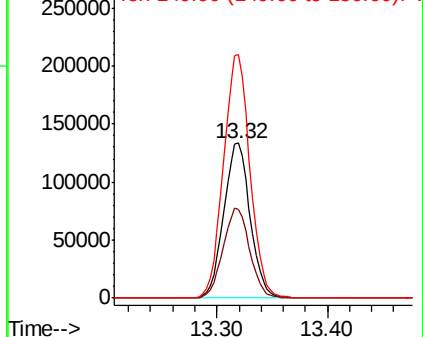
152 100

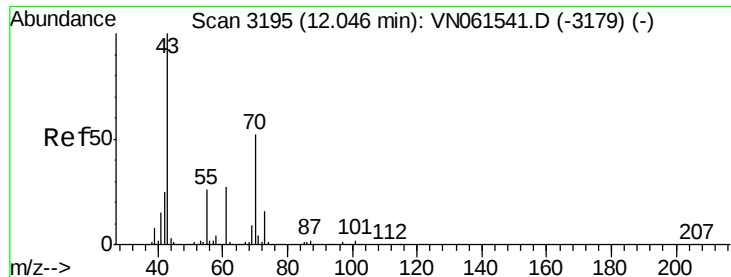
115 58.7 28.0 84.0

150 157.9 0.0 344.0



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

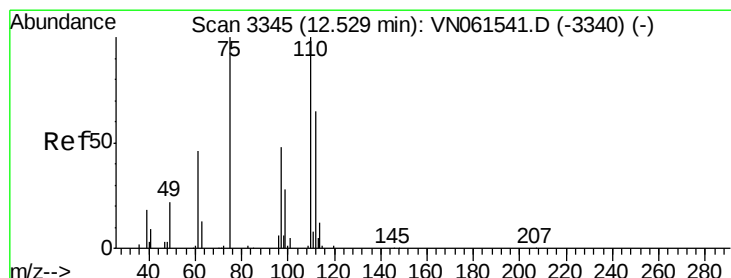
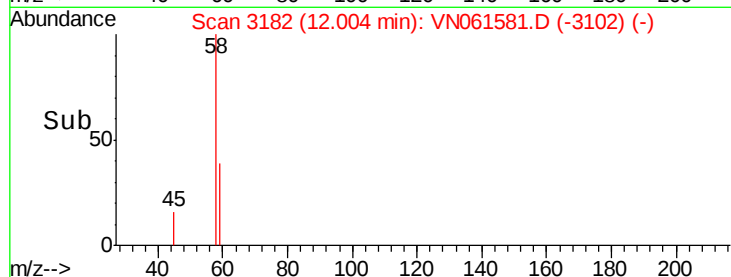
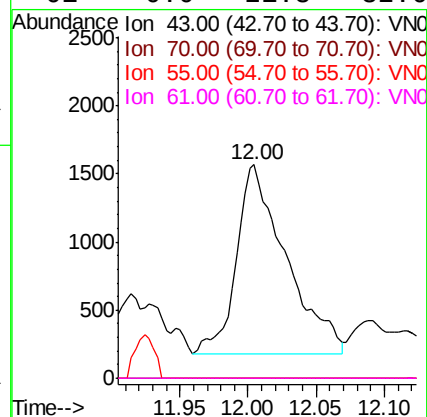
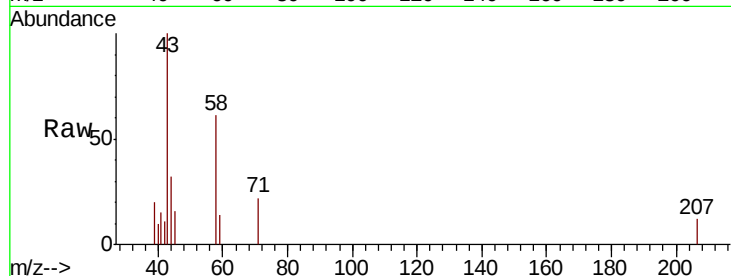




#74
N-amvl acetate
Concen: 0.690 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

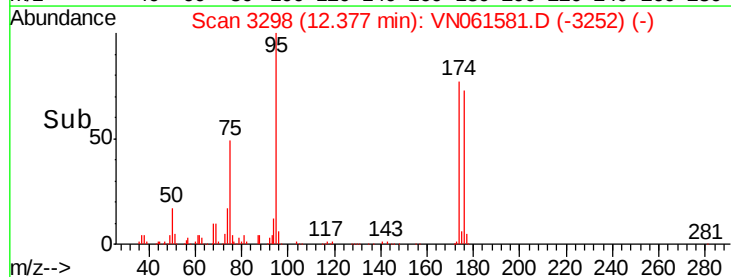
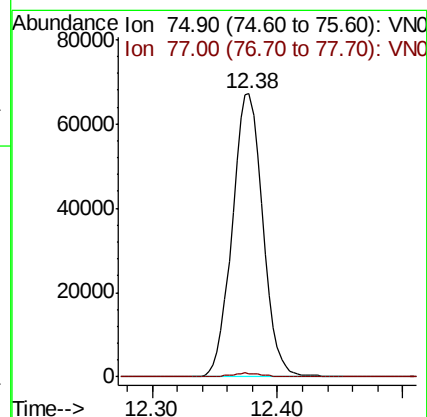
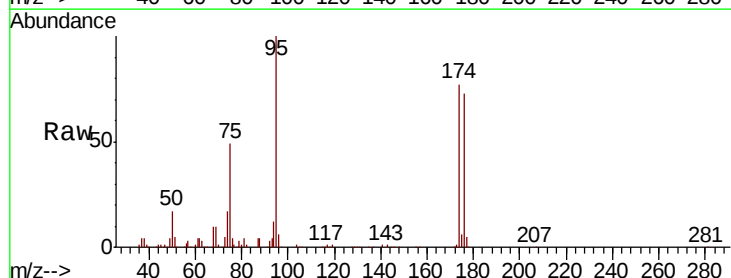
Instrument :
MSVOA_N
ClientSampled :

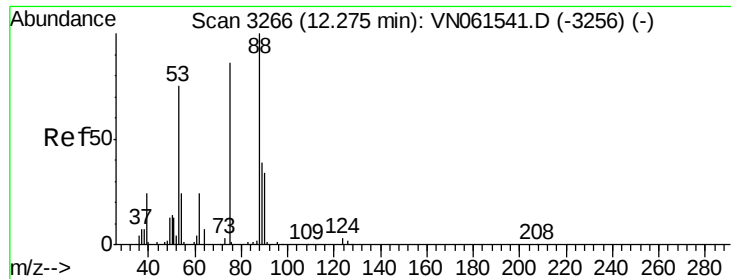
Tot Ion: 43 Resp: 3508
Ion Ratio Lower Upper
43 100
70 0.0 40.5 60.7#
55 0.0 20.6 31.0#
61 0.0 21.8 32.6#



#76
1,2,3-Trichloropropane
Concen: 28.217 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN061581.D
Acq: 29 May 2020 20:40

Tgt Ion: 75 Resp: 113535
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

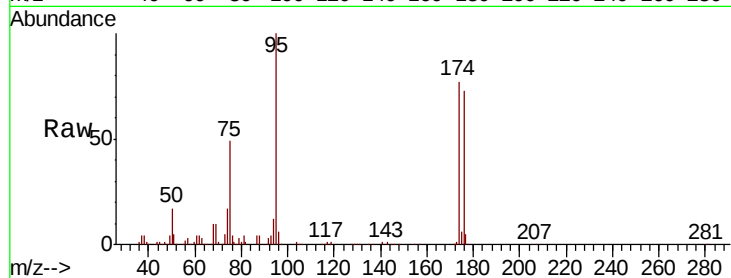




#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.158 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061581.D
 Acq: 29 May 2020 20:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 113535
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 53.00 (52.70 to 53.70): VNO
 Ion 88.90 (88.60 to 89.60): VNO

