

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072920\
 Data File : VN062653.D
 Acq On : 29 Jul 2020 14:39
 Operator : JC/MD
 Sample : L3464-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 30 03:03:05 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	138111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	248860	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	254934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	104089	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	118477	55.22	ug/l	0.00
Spiked Amount			Recovery	=	110.44%	
35) Dibromofluoromethane	7.55	113	82883	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
50) Toluene-d8	10.06	98	332629	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.38	95	125238	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	

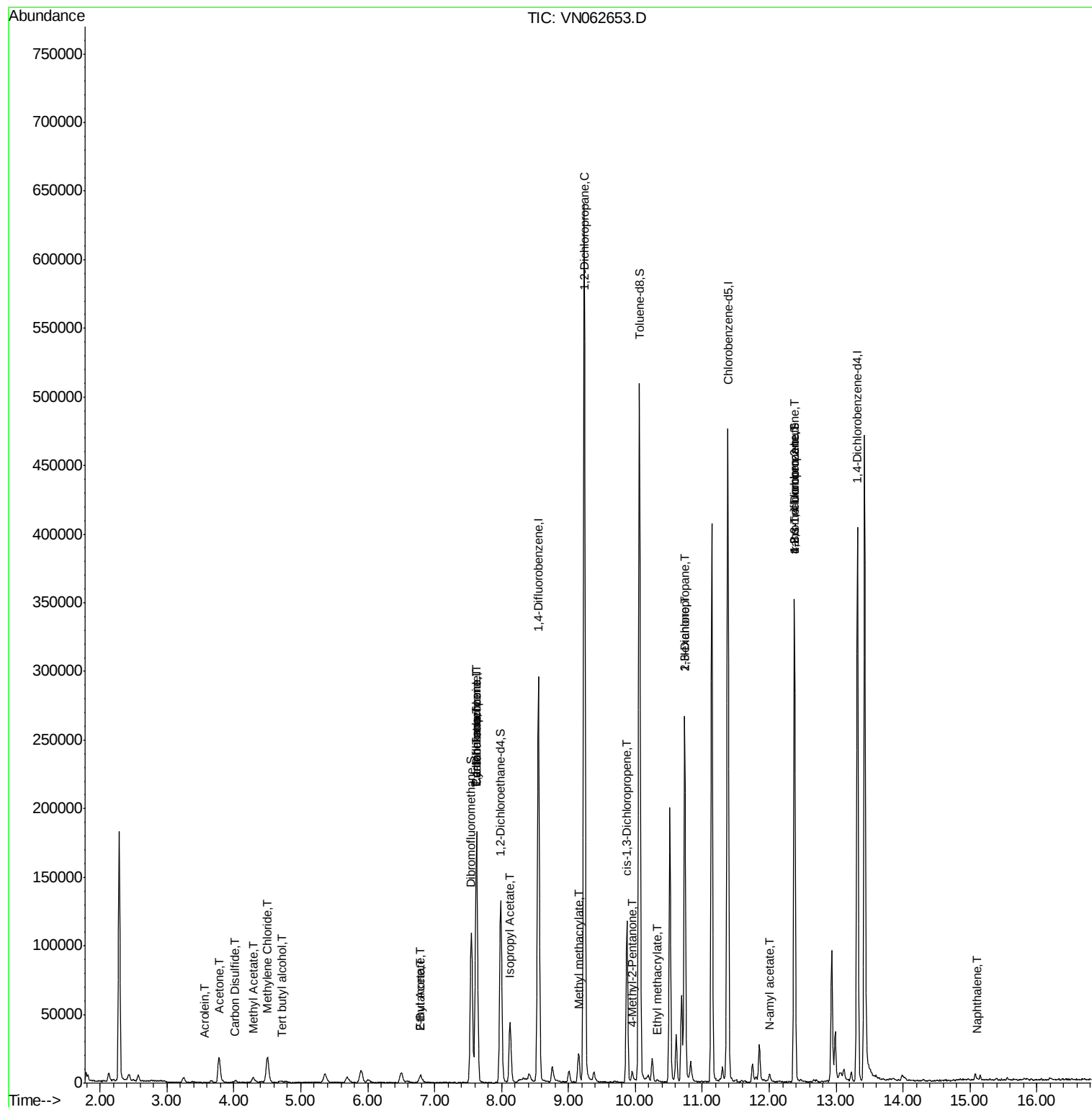
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	340	0.996	ug/l #	73
13) Acrolein	3.57	56	60	8.597	ug/l #	14
16) Acetone	3.78	43	32358	40.079	ug/l	99
17) Carbon Disulfide	4.01	76	1512	0.311	ug/l #	75
18) Methyl Acetate	4.29	43	7560	3.699	ug/l	96
20) Methylene Chloride	4.50	84	13413	6.927	ug/l	94
25) 2-Butanone	6.79	43	8180	6.653	ug/l	95
31) Cyclohexane	7.62	56	3421	1.082	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	12473	4.702	ug/l #	51
37) Ethyl Acetate	6.79	43	8180	2.861	ug/l #	69
38) Carbon Tetrachloride	7.62	117	14569	5.714	ug/l #	18
43) Isopropyl Acetate	8.13	43	52450	11.379	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	637	0.283	ug/l #	44
48) Methyl methacrylate	9.15	41	3946	1.801	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	5621	2.038	ug/l	98
54) cis-1,3-Dichloropropene	9.88	75	20052	5.946	ug/l #	66
56) Ethyl methacrylate	10.33	69	344	1.871	ug/l #	22
57) 1,3-Dichloropropane	10.74	76	2700	0.815	ug/l #	42
59) 2-Hexanone	10.74	43	40555	21.747	ug/l #	54
74) N-amyl acetate	12.01	43	4007	1.090	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	66367	25.049	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	66367	69.732	ug/l #	12
95) Naphthalene	15.11	128	433	3.848	ug/l #	69

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
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: VN062653.D

Acq: 29 Jul 2020 14:39

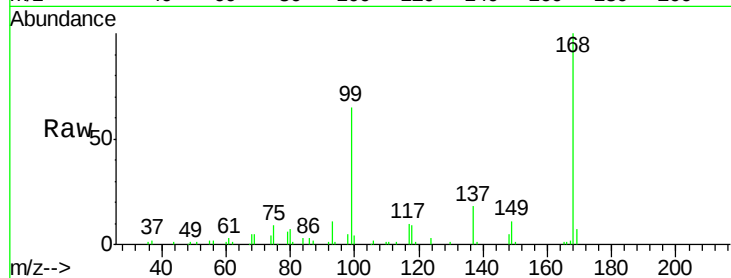
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 138111

Ion Ratio Lower Upper

168 100

99 64.7 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

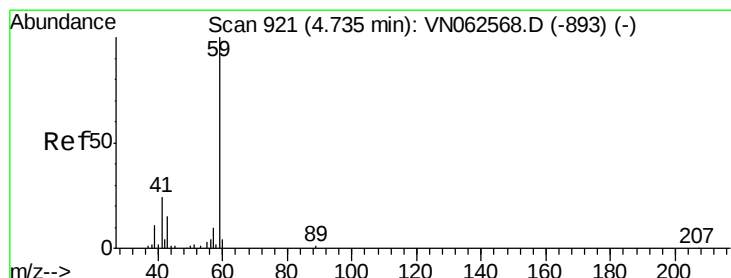
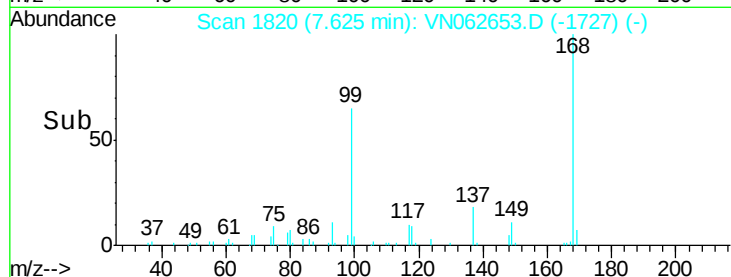
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.996 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.02 min

Lab File: VN062653.D

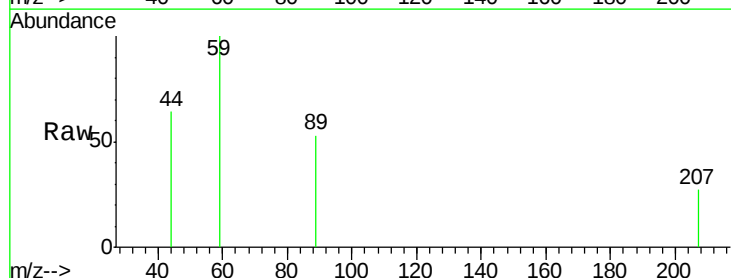
Acq: 29 Jul 2020 14:39

Tgt Ion: 59 Resp: 340

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

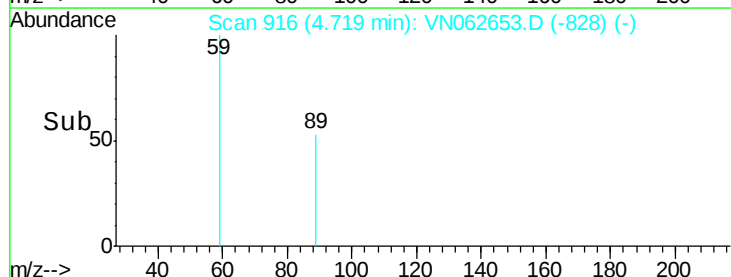
600

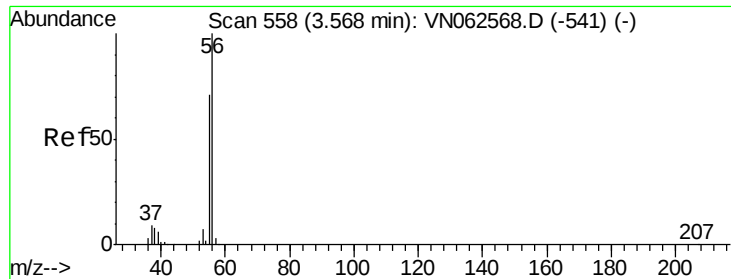
400

200

0

Time--> 4.70 4.72 4.74

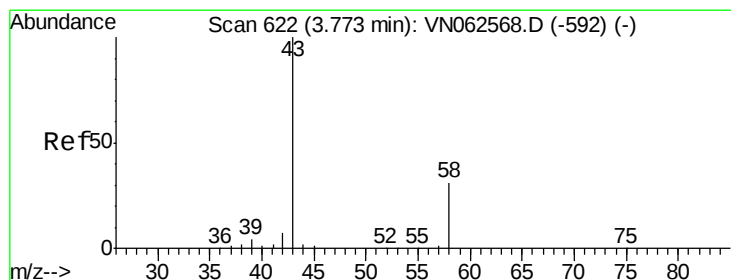
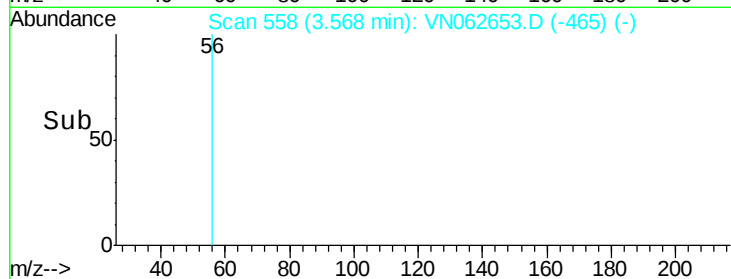
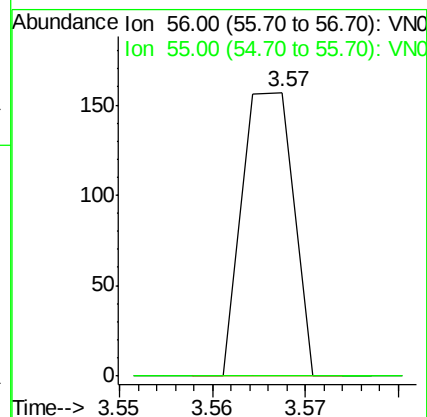
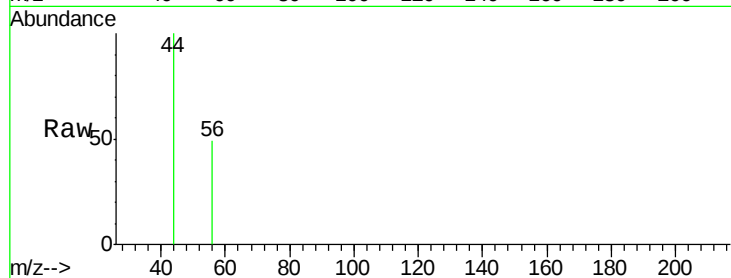




#13
Acrolein
Concen: 8.597 ug/l
RT: 3.57 min Scan# 558
Delta R.T. 0.00 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

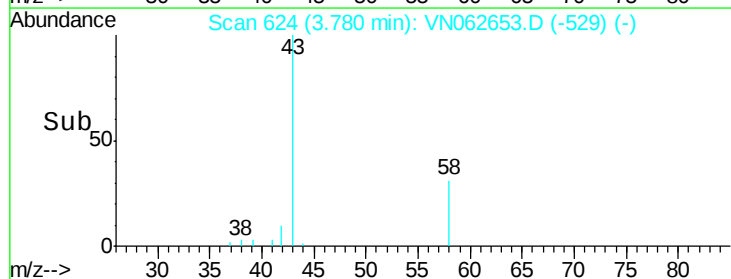
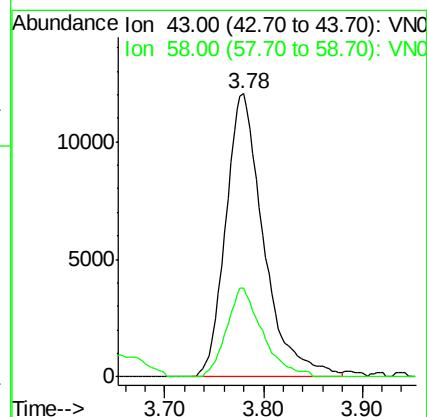
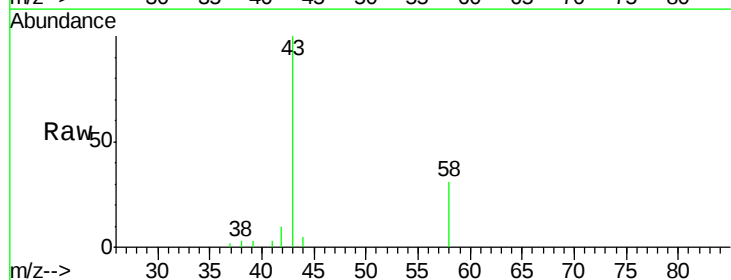
Instrument :
MSVOA_N
ClientSampled :

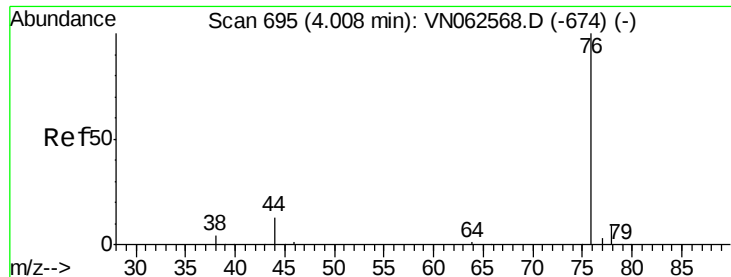
Tot Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#16
Acetone
Concen: 40.079 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 32358
Ion Ratio Lower Upper
43 100
58 31.5 24.6 37.0

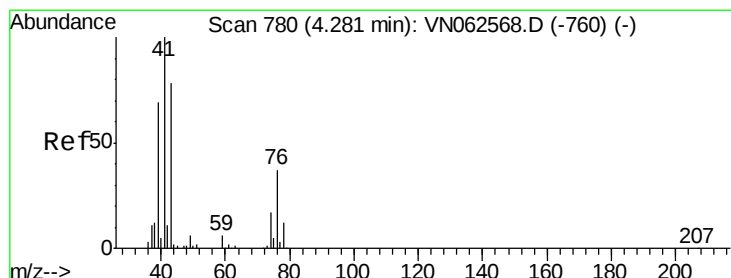
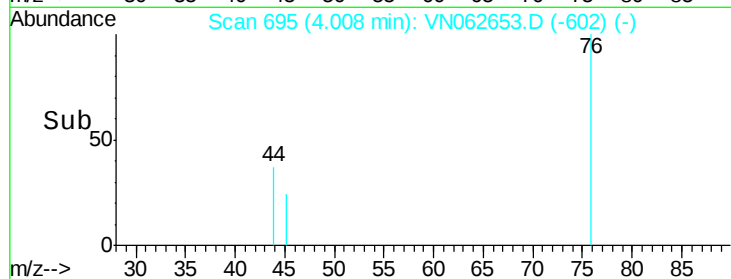
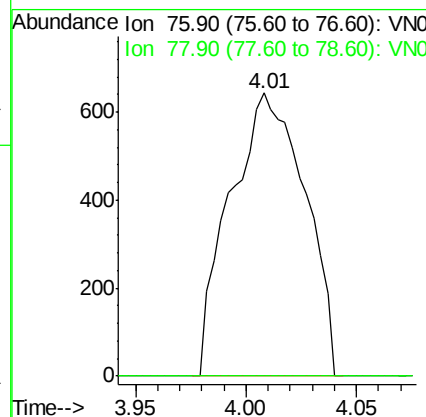
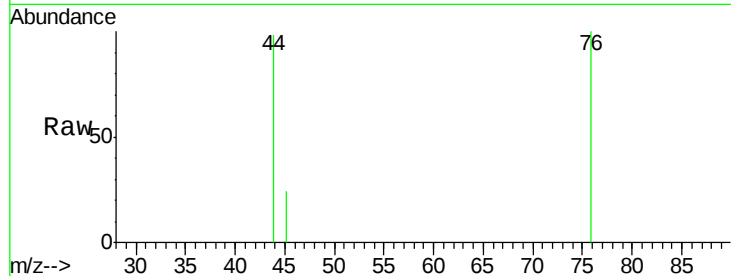




#17
Carbon Disulfide
Concen: 0.311 ug/l
RT: 4.01 min Scan# 695
Delta R.T. -0.00 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

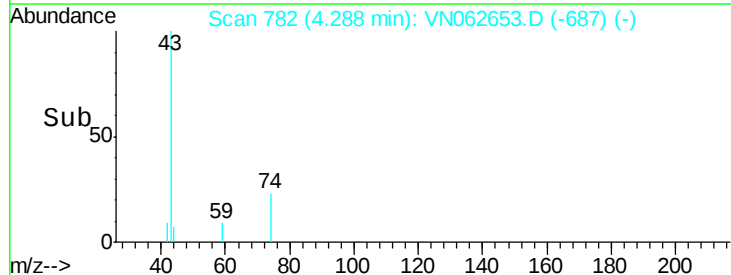
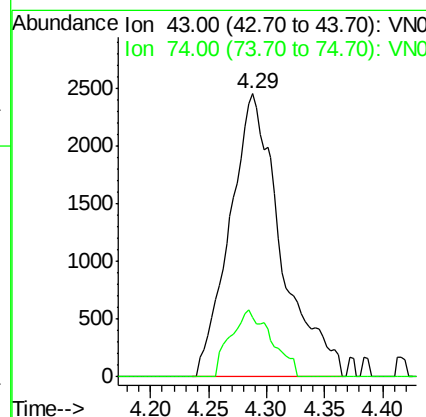
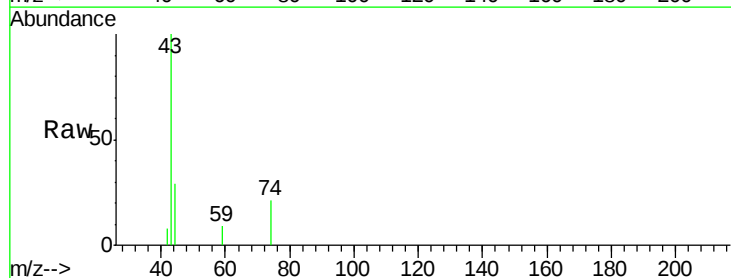
Instrument :
MSVOA_N
ClientSampleId :

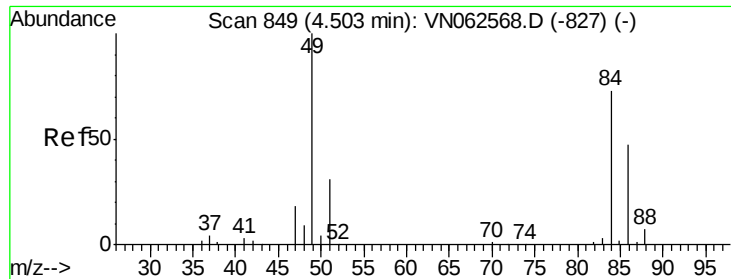
Tot Ion: 76 Resp: 1512
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 3.699 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 7560
Ion Ratio Lower Upper
43 100
74 18.9 16.6 24.8

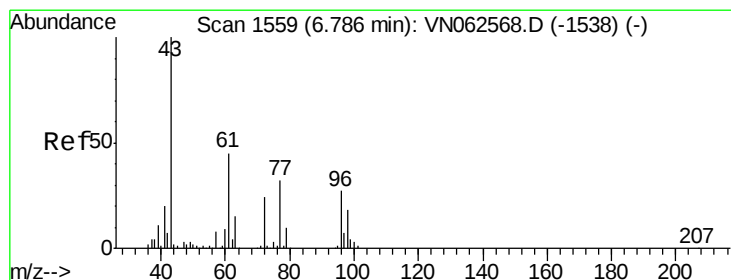
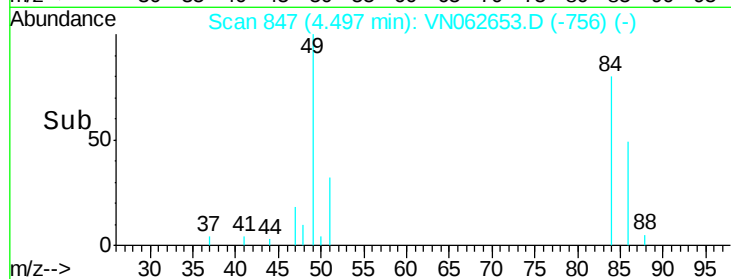
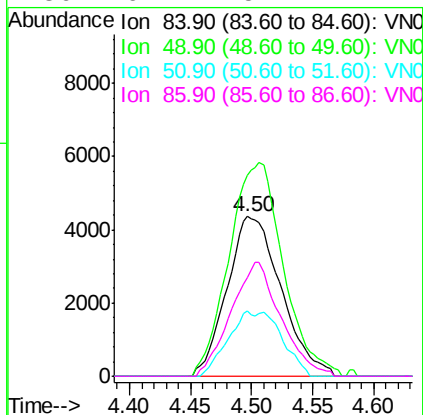
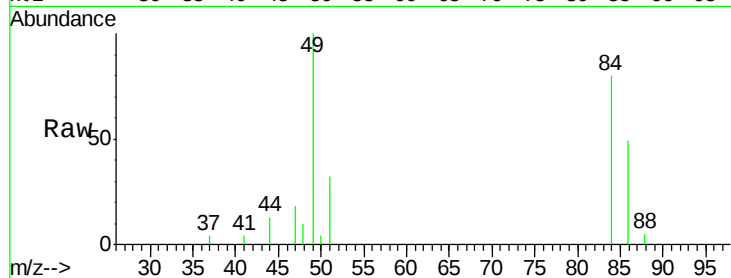




#20
Methvlene Chloride
Concen: 6.927 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.01 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

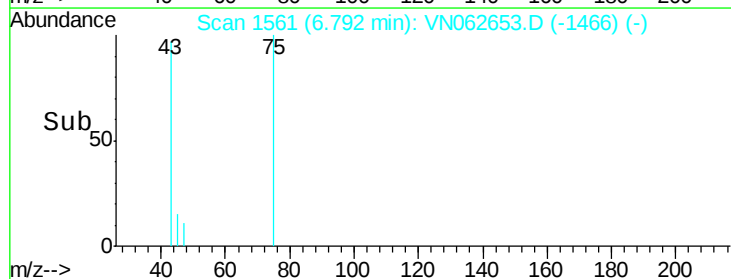
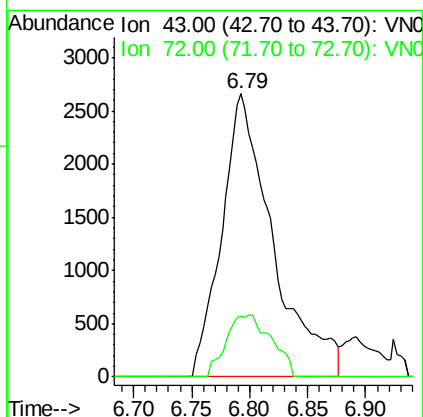
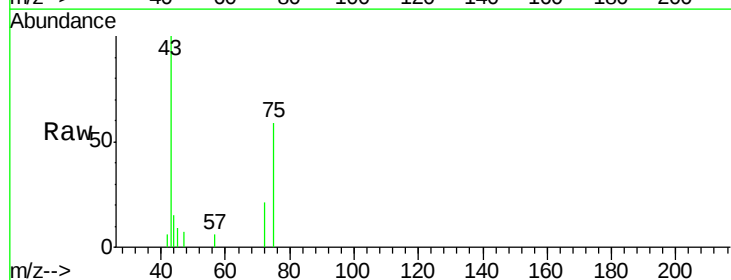
Instrument :
MSVOA_N
ClientSampled :

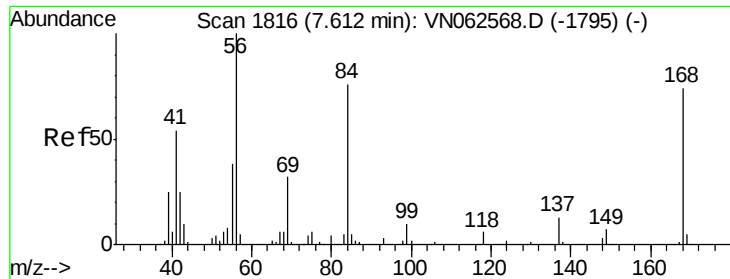
Tot Ion:	84	Resp:	13413
Ion	Ratio	Lower	Upper
84	100		
49	125.5	109.4	164.0
51	40.6	33.6	50.4
86	61.7	51.4	77.2



#25
2-Butanone
Concen: 6.653 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Tgt Ion:	43	Resp:	8180
Ion	Ratio	Lower	Upper
43	100		
72	21.2	19.0	28.6

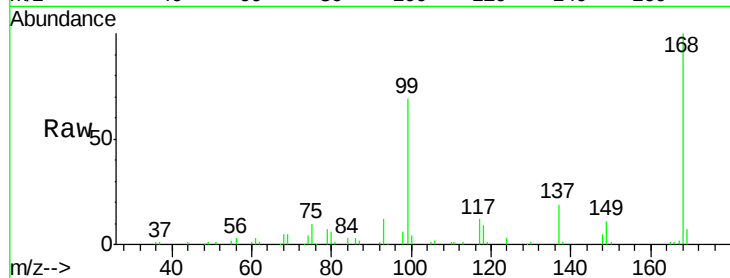




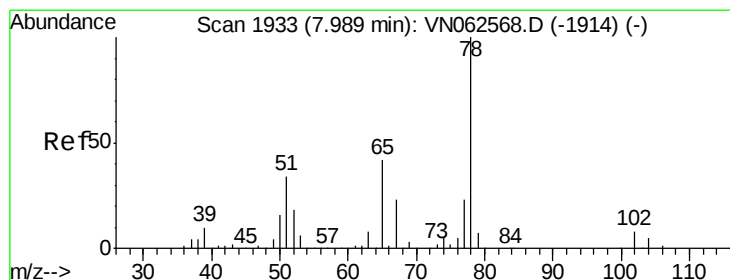
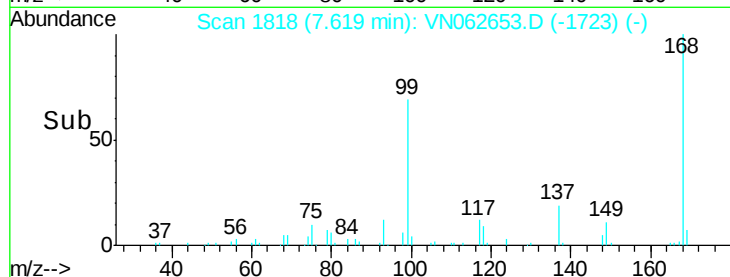
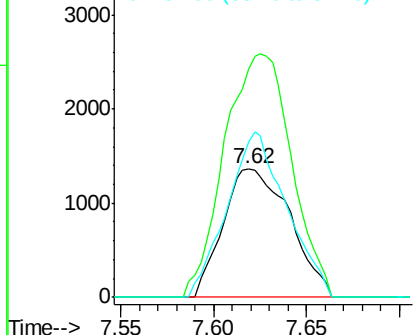
#31
Cyclohexane
Concen: 1.082 ug/l
RT: 7.62 min Scan# 1816
Delta R.T. 0.01 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3421
Ion Ratio Lower Upper
56 100
69 177.4 25.3 37.9#
84 120.9 61.0 91.4#

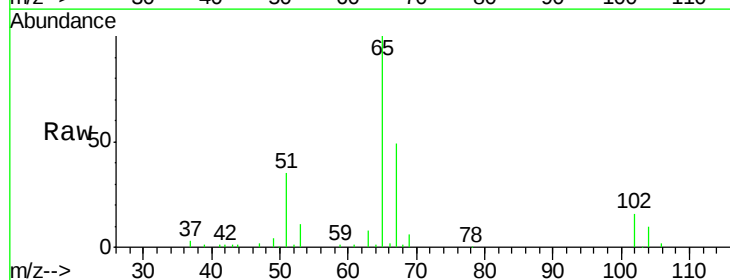


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

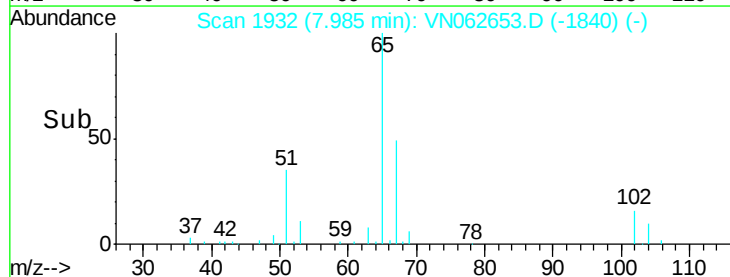
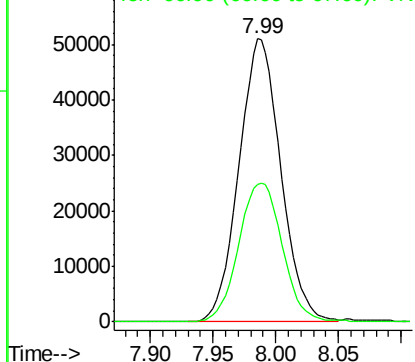


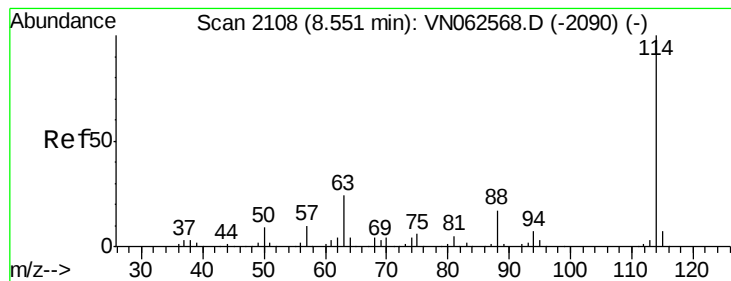
#33
1,2-Dichloroethane-d4
Concen: 55.221 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Tgt Ion: 65 Resp: 118477
Ion Ratio Lower Upper
65 100
67 51.1 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: VN062653.D

Acq: 29 Jul 2020 14:39

Instrument :

MSVOA_N

ClientSampleId :

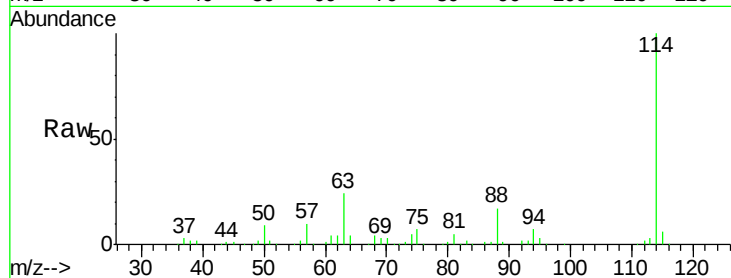
Tot Ion:114 Resp: 248860

Ion Ratio Lower Upper

114 100

63 23.5 0.0 48.4

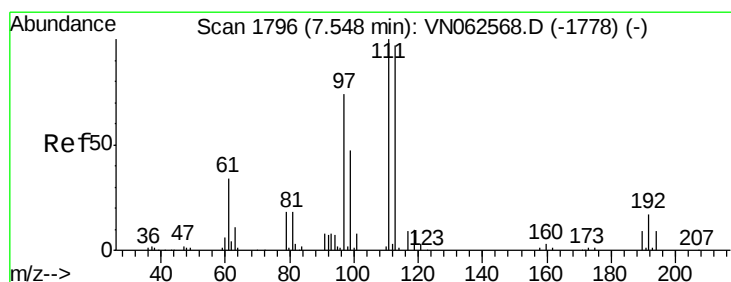
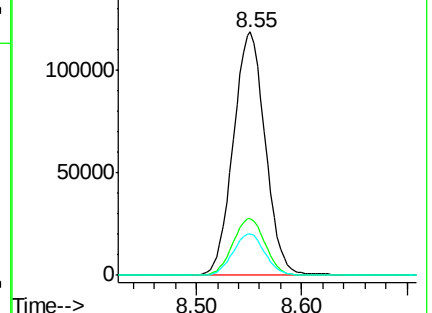
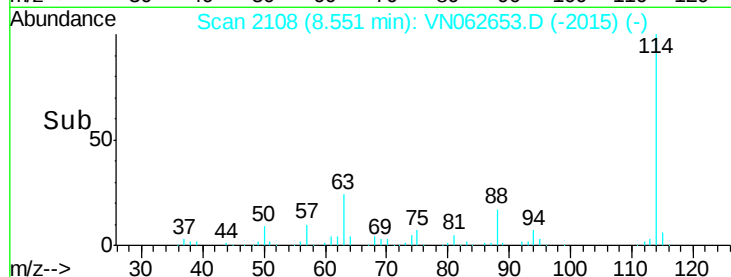
88 17.2 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.704 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

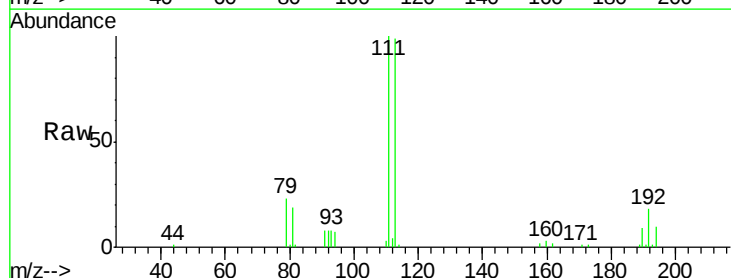
Tgt Ion:113 Resp: 82883

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

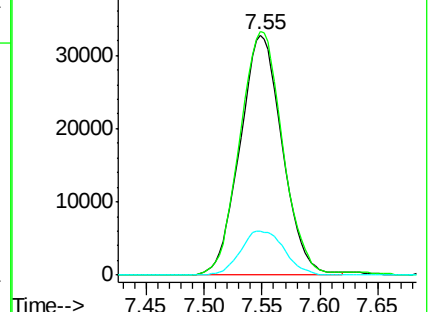
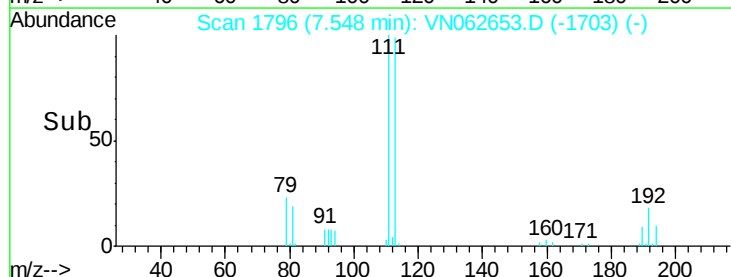
192 19.1 14.8 22.2

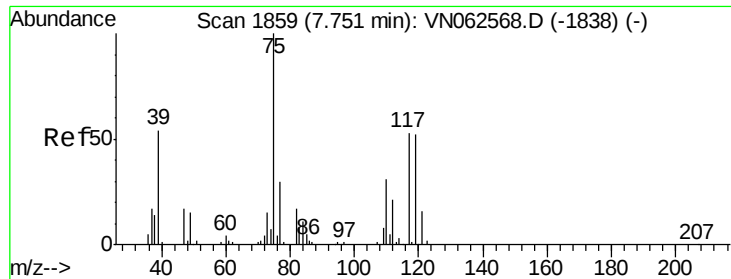


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

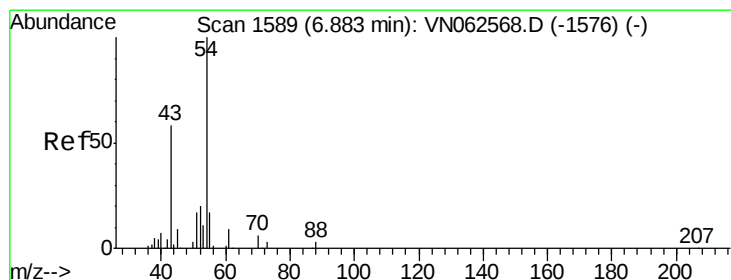
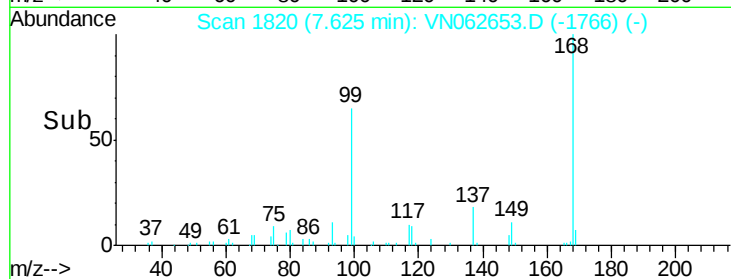
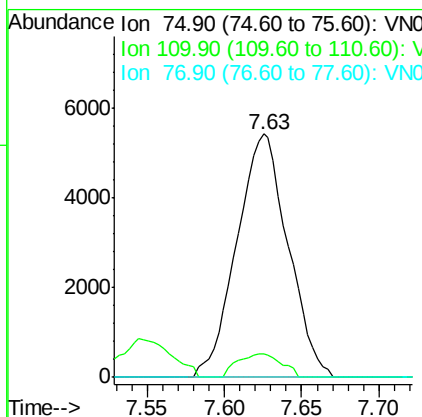
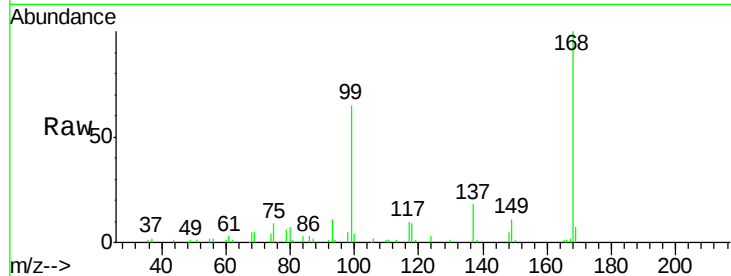




#36
 1,1-Dichloropropene
 Concen: 4.702 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

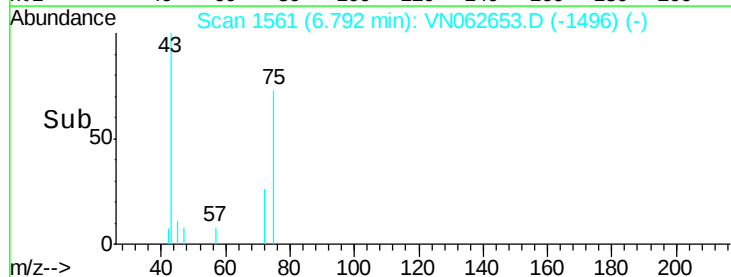
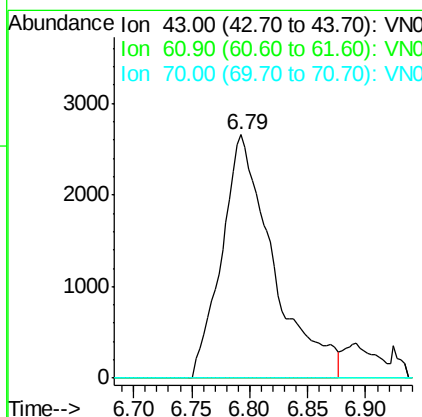
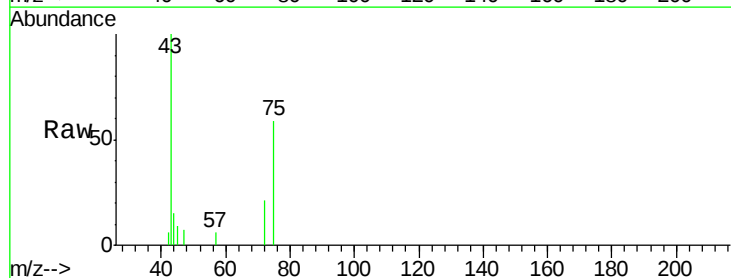
Instrument :
 MSVOA_N
 ClientSampled :

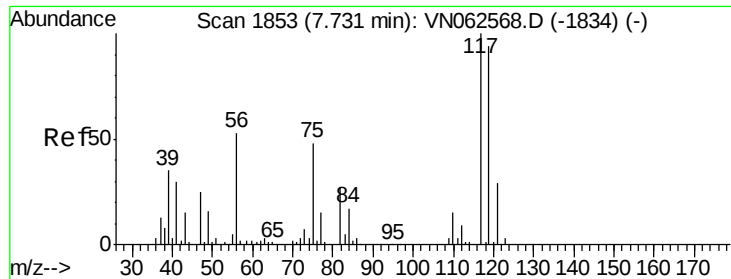
Tot Ion: 75 Resp: 12473
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.0 48.0#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 2.861 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 8180
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.3 16.9#
 70 0.0 7.7 11.5#

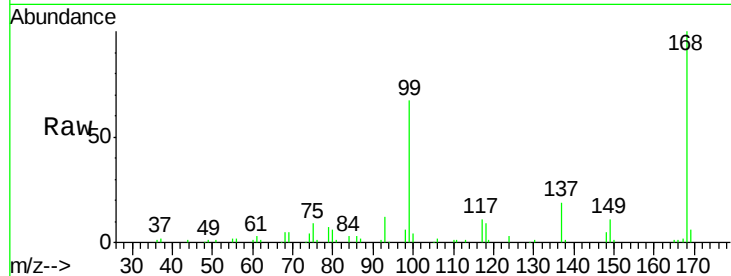




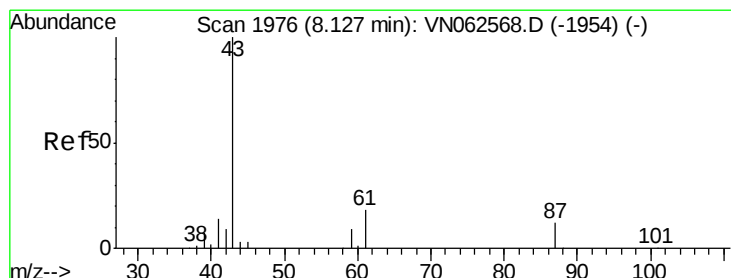
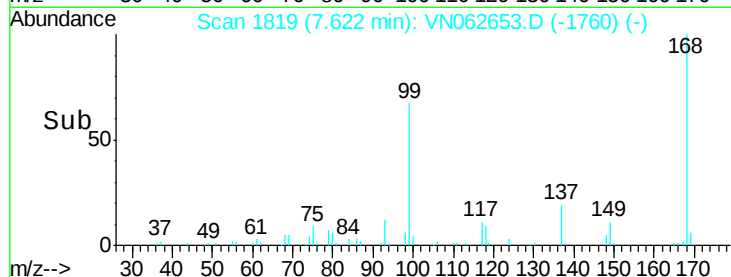
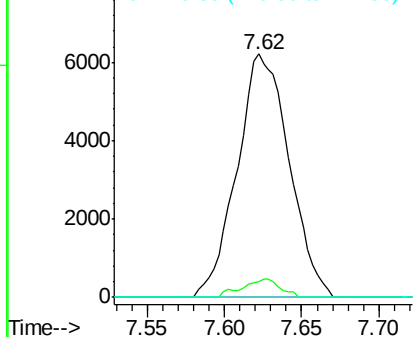
#38
Carbon Tetrachloride
Concen: 5.714 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 14569
Ion Ratio Lower Upper
117 100
119 6.7 74.8 112.2#
121 0.0 23.0 34.6#

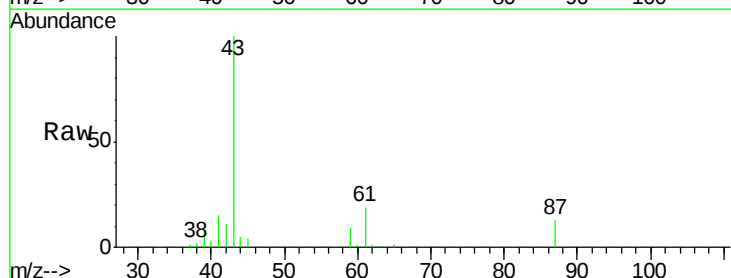


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

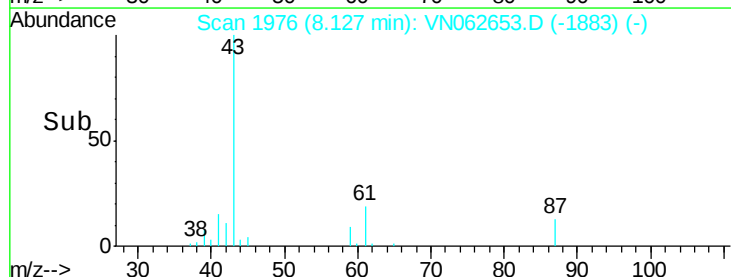
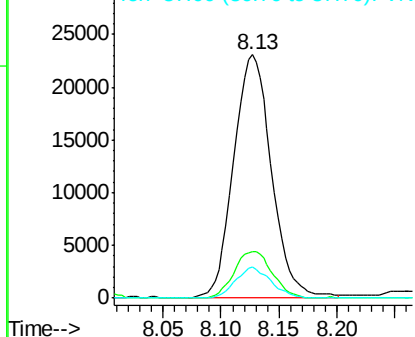


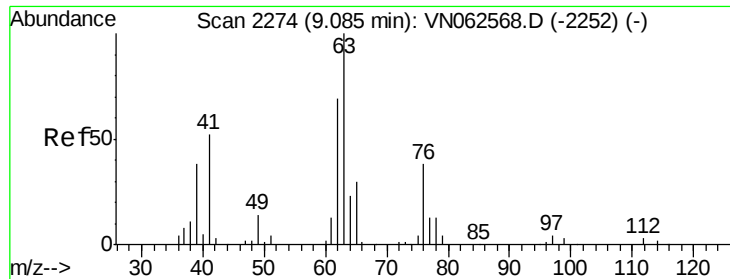
#43
Isopropyl Acetate
Concen: 11.379 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 52450
Ion Ratio Lower Upper
43 100
61 19.2 20.8 31.2#
87 11.7 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.283 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

Instrument :

MSVOA_N

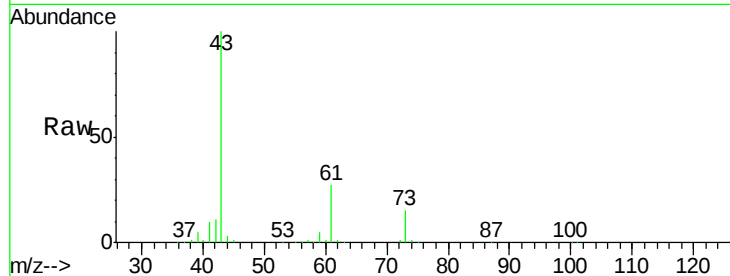
ClientSampleId :

Tot Ion: 63 Resp: 637

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

400

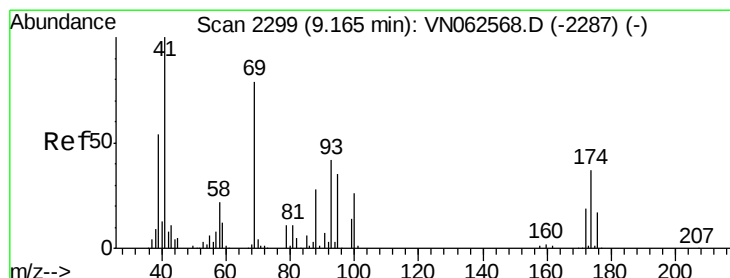
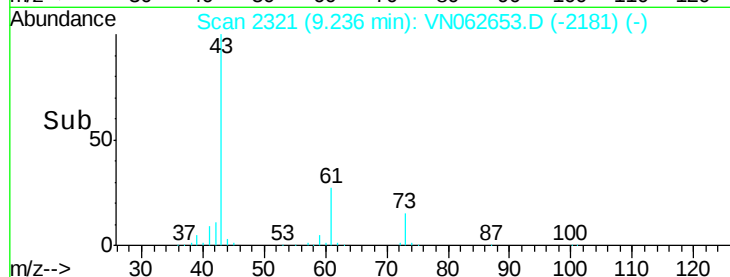
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.801 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

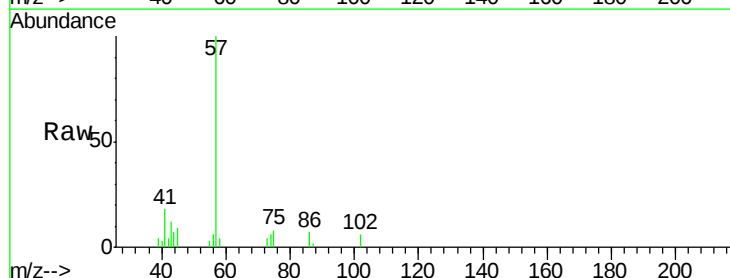
Tgt Ion: 41 Resp: 3946

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 43.5 65.3#



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

40000

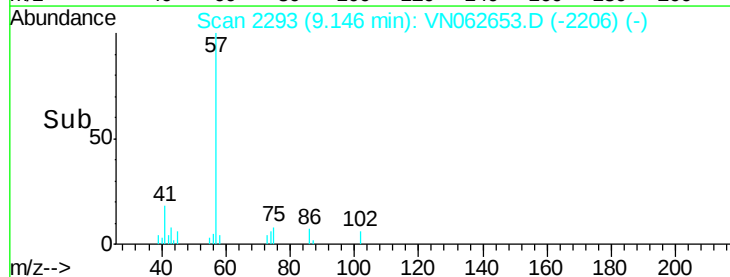
30000

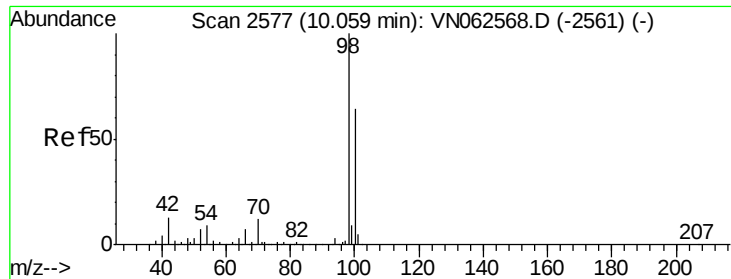
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.000 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

Instrument :

MSVOA_N

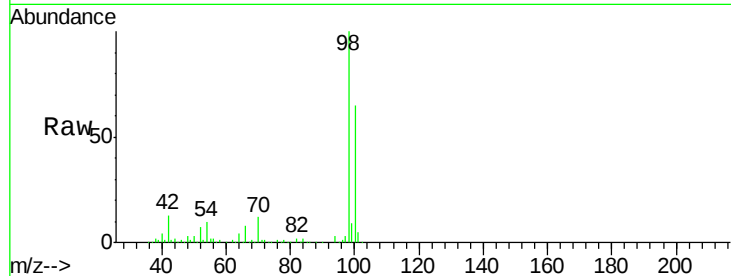
ClientSampleId :

Tot Ion: 98 Resp: 332629

Ion Ratio Lower Upper

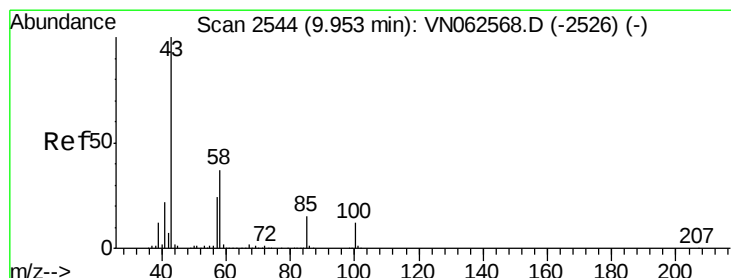
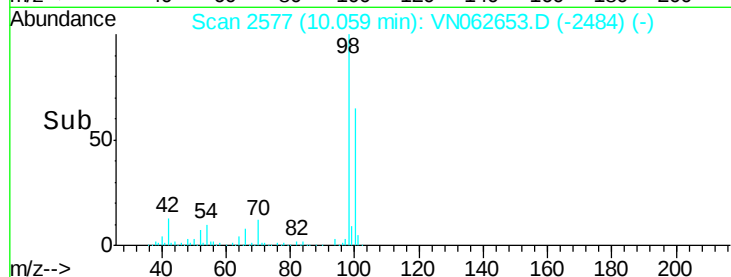
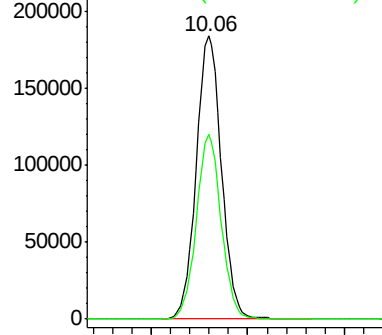
98 100

100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.038 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062653.D

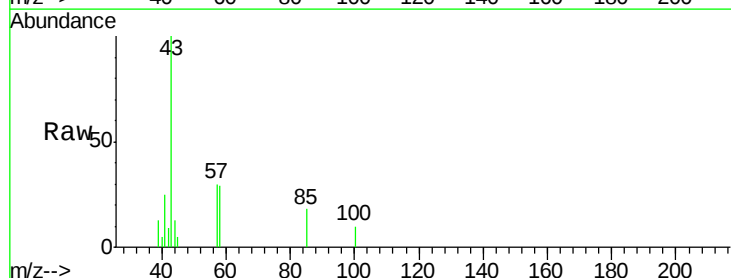
Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 5621

Ion Ratio Lower Upper

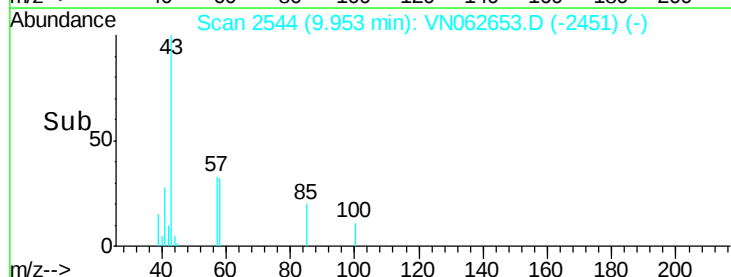
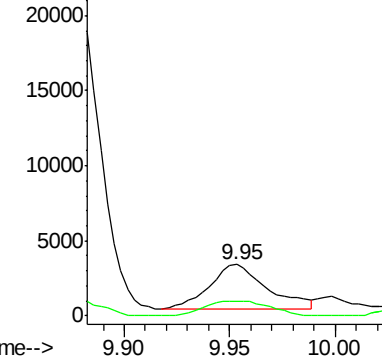
43 100

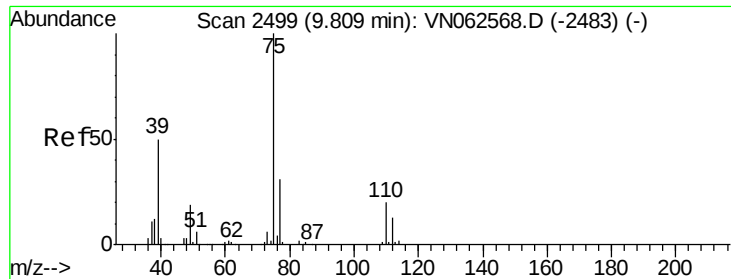
58 38.3 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

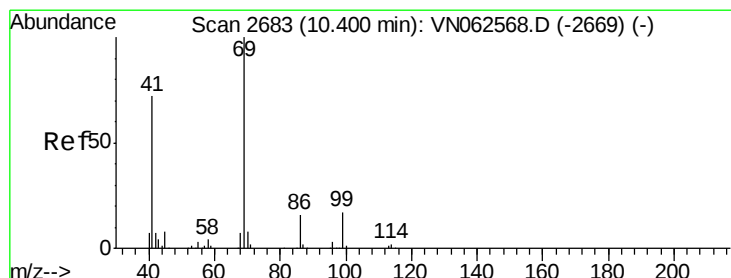
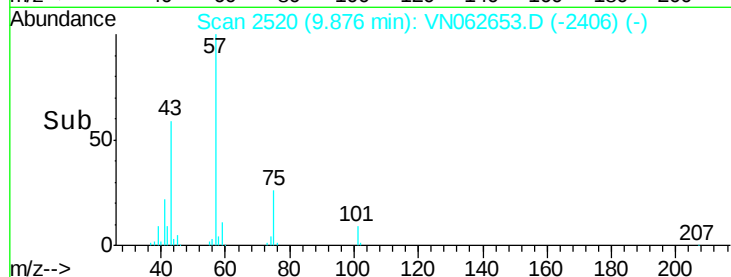
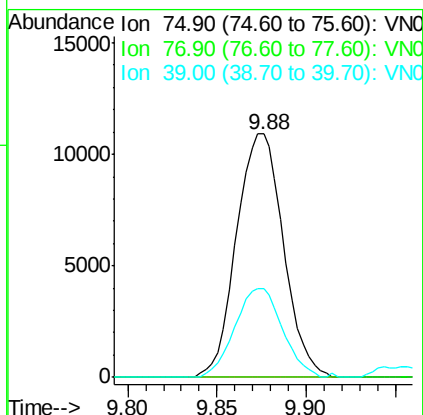
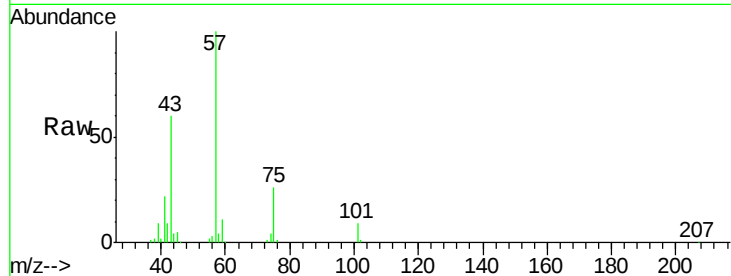




#54
 cis-1,3-Dichloropropene
 Concen: 5.946 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

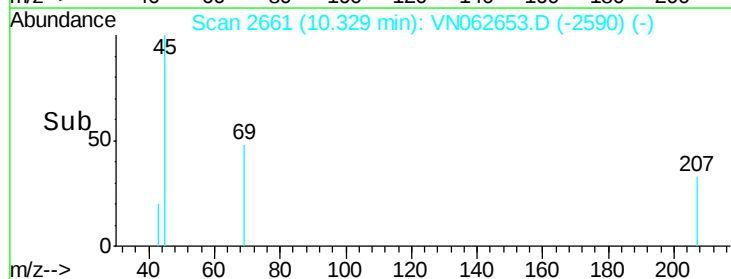
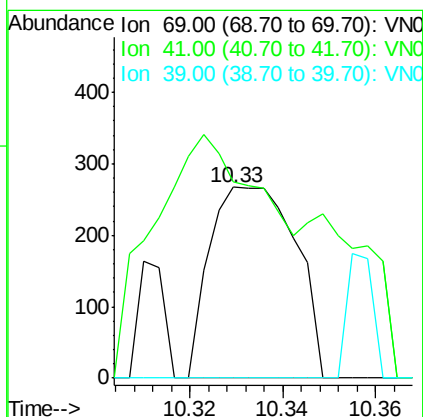
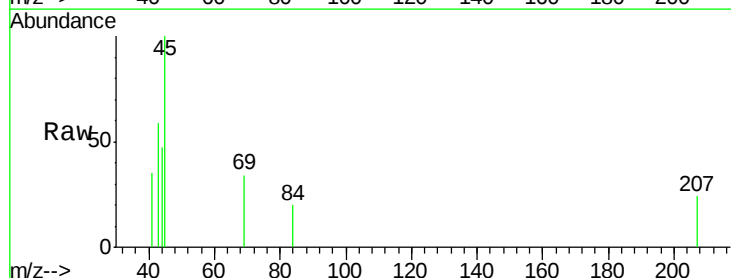
Instrument :
 MSVOA_N
 ClientSampleId :

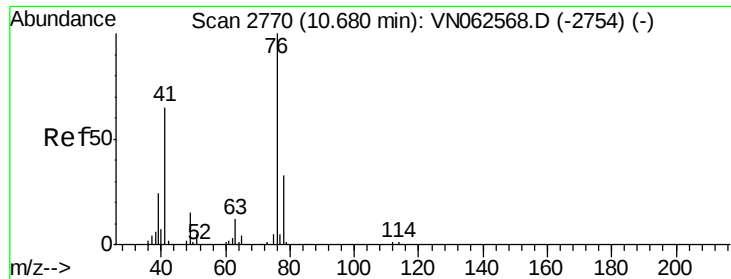
Tot Ion: 75 Resp: 20052
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 36.3 39.8 59.8#



#56
 Ethyl methacrylate
 Concen: 1.871 ug/l
 RT: 10.33 min Scan# 2661
 Delta R.T. -0.07 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

Tgt Ion: 69 Resp: 344
 Ion Ratio Lower Upper
 69 100
 41 0.0 57.2 85.8#
 39 0.0 28.6 43.0#

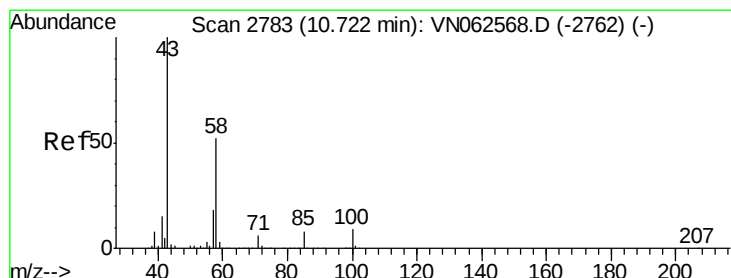
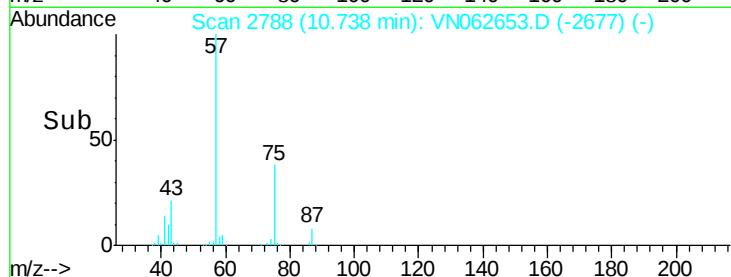
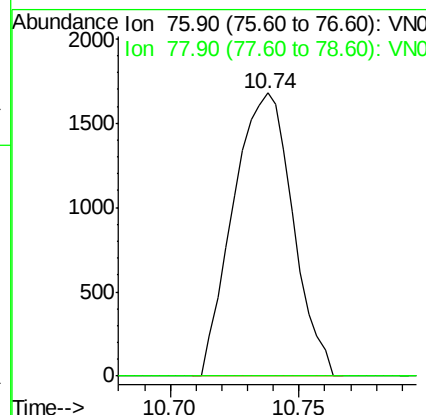
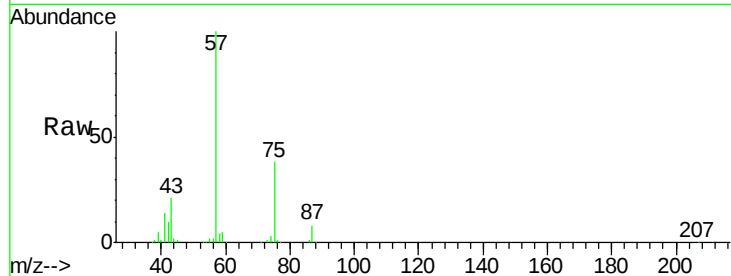




#57
 1,3-Dichloropropane
 Concen: 0.815 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

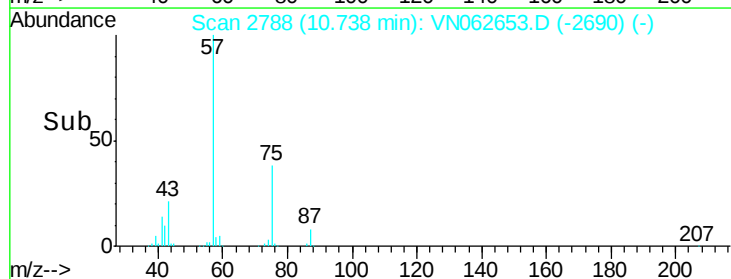
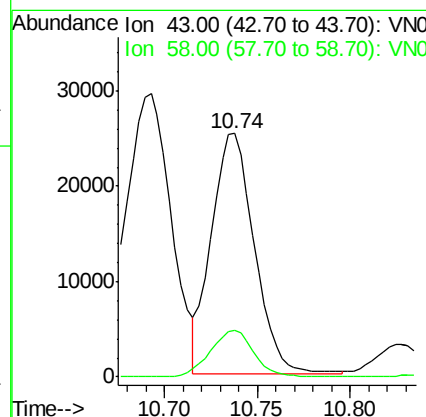
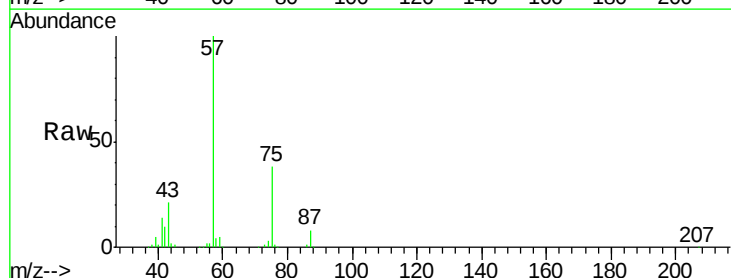
Instrument :
 MSVOA_N
 ClientSampled :

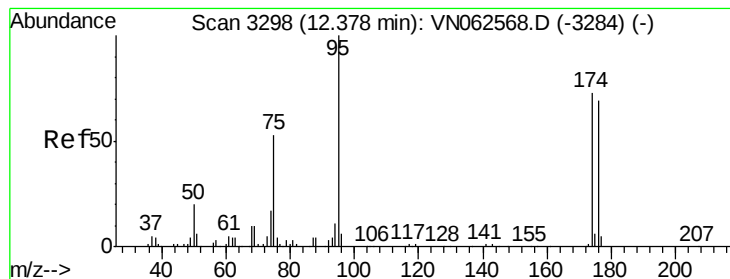
Tot Ion: 76 Resp: 2700
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 21.747 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 40555
 Ion Ratio Lower Upper
 43 100
 58 19.6 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 52.516 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

Instrument :

MSVOA_N

ClientSampled :

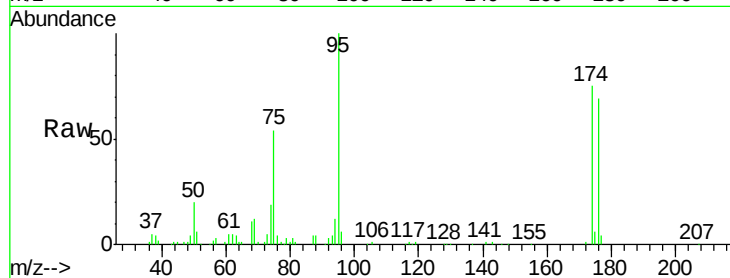
Tot Ion: 95 Resp: 125238

Ion Ratio Lower Upper

95 100

174 72.6 0.0 144.6

176 69.1 0.0 139.4

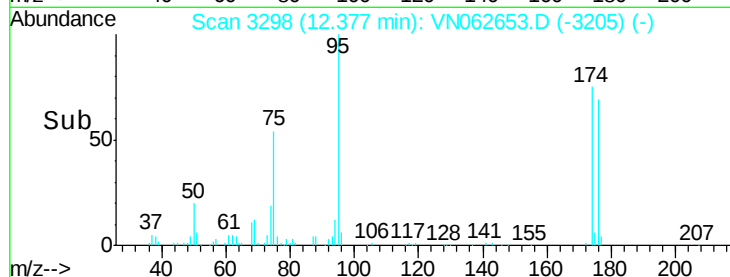


Abundance Ion 94.90 (94.60 to 95.60): VN062568.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062568.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062568.D (-3284) (-)

Time-->

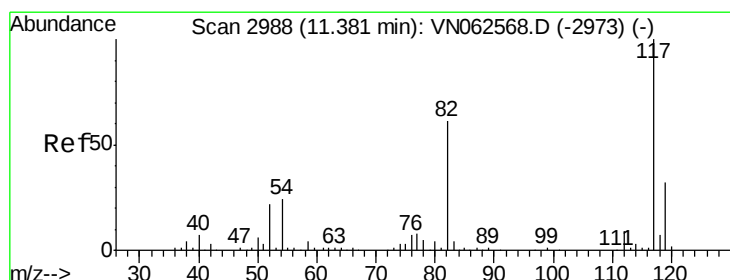


Abundance Ion 94.90 (94.60 to 95.60): VN062653.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062653.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062653.D (-3205) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

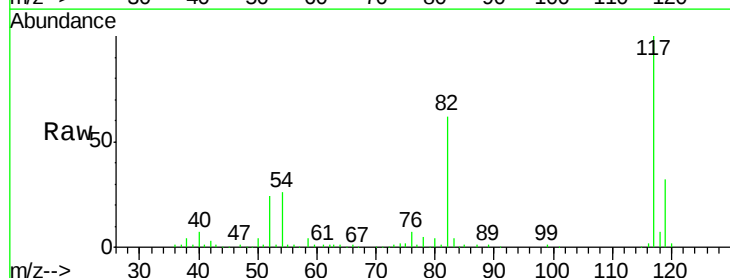
Tgt Ion: 117 Resp: 254934

Ion Ratio Lower Upper

117 100

82 61.7 49.0 73.6

119 31.6 25.4 38.2

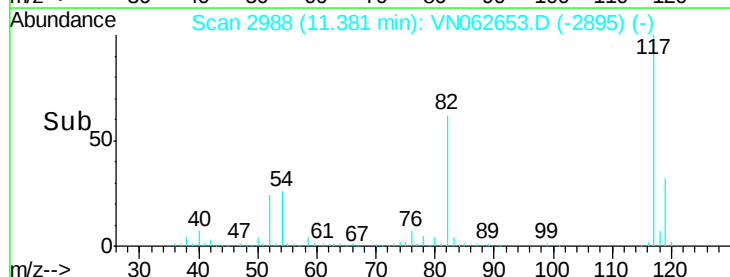


Abundance Ion 116.90 (116.60 to 117.60): VN062568.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN062568.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN062568.D (-2973) (-)

Time-->

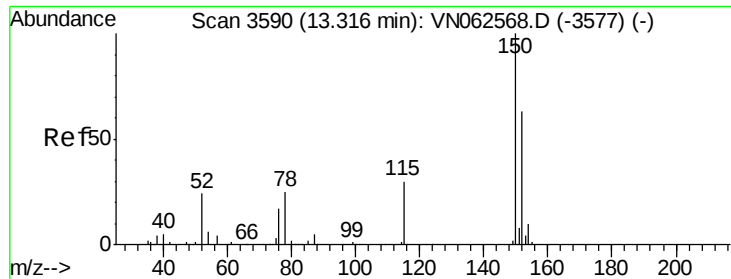


Abundance Ion 116.90 (116.60 to 117.60): VN062653.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062653.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062653.D (-2895) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

Instrument :

MSVOA_N

ClientSampleId :

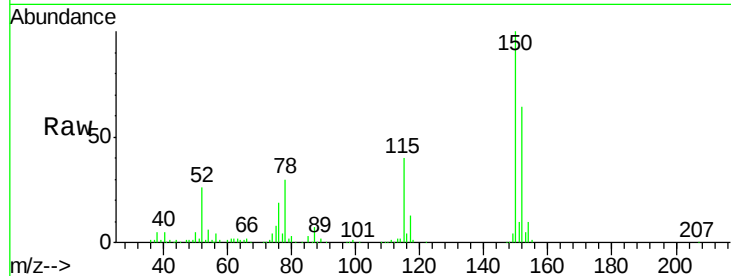
Tot Ion:152 Resp: 104089

Ion Ratio Lower Upper

152 100

115 61.7 31.8 95.4

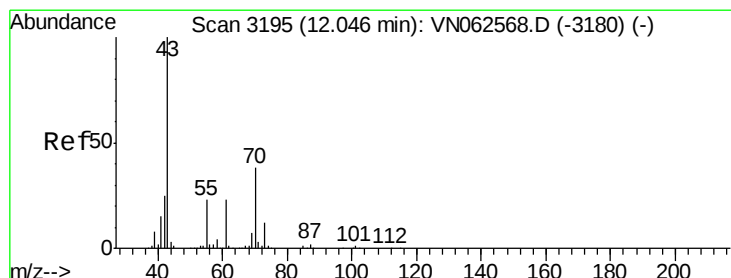
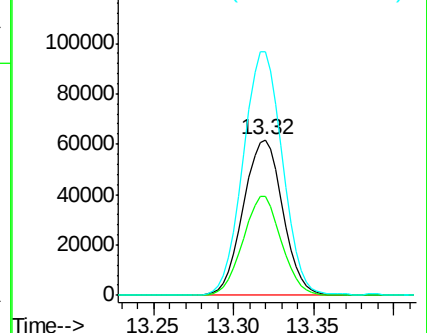
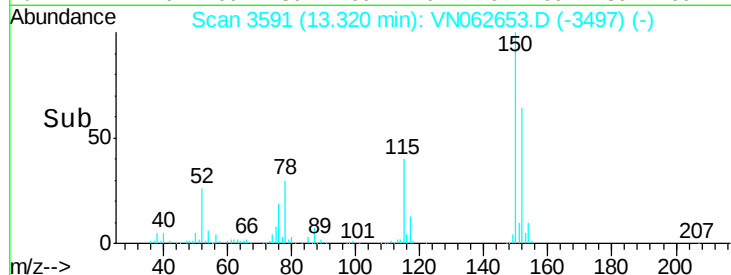
150 156.1 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.090 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062653.D

Acq: 29 Jul 2020 14:39

Tgt Ion: 43 Resp: 4007

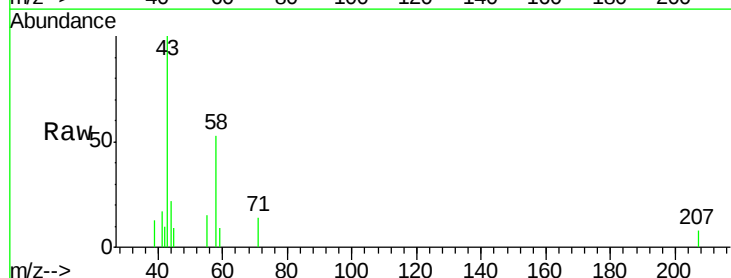
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 12.1 19.0 28.6#

61 0.0 18.4 27.6#

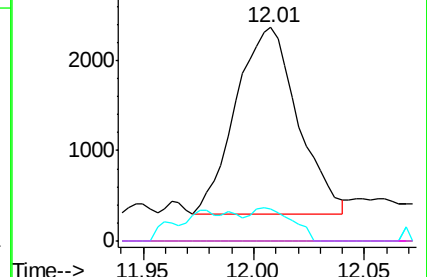
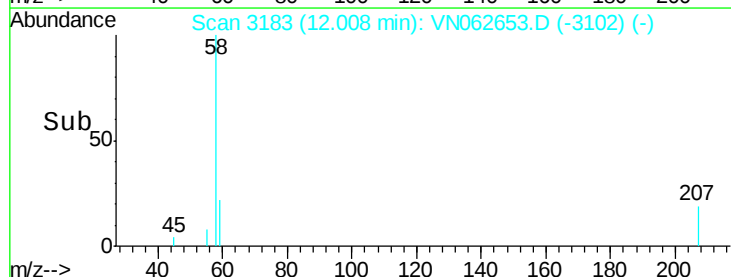


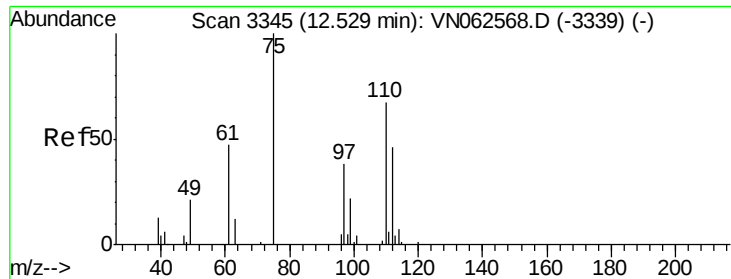
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

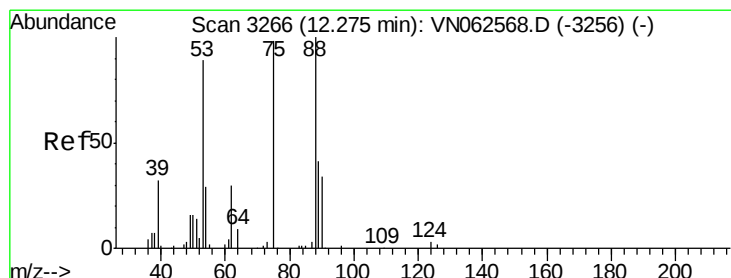
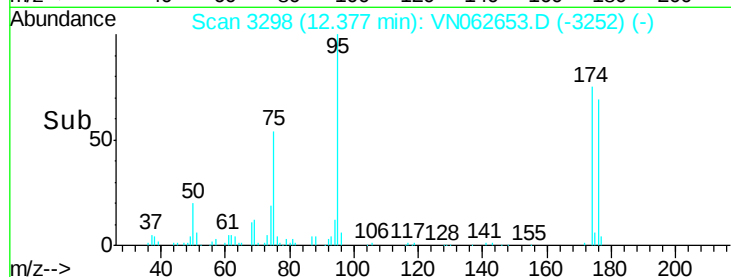
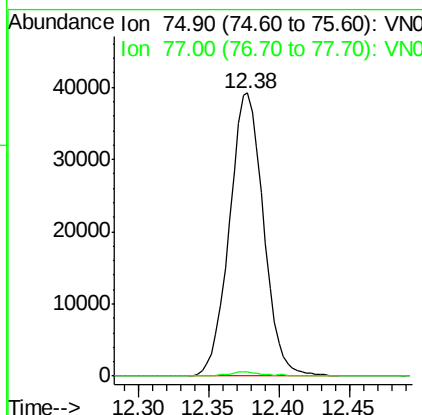
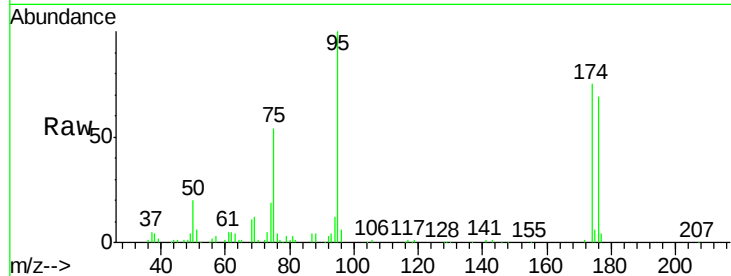




#76
 1,2,3-Trichloropropane
 Concen: 25.049 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

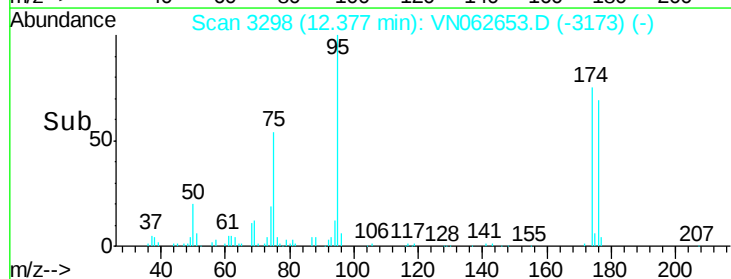
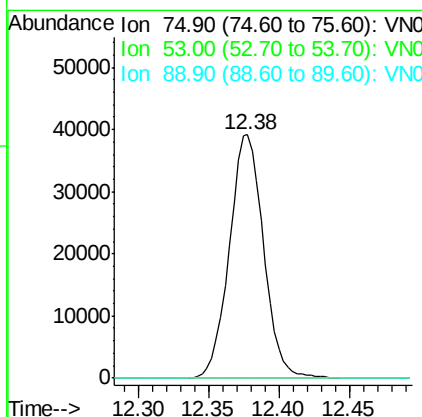
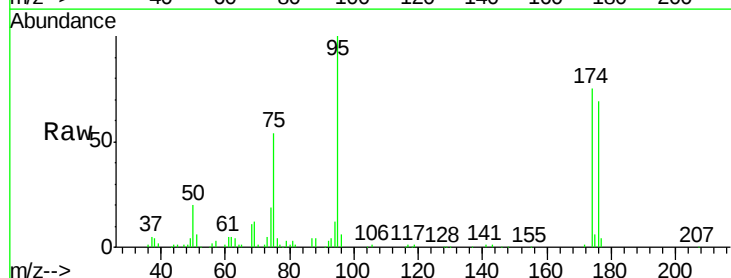
Instrument :
 MSVOA_N
 ClientSampleId :

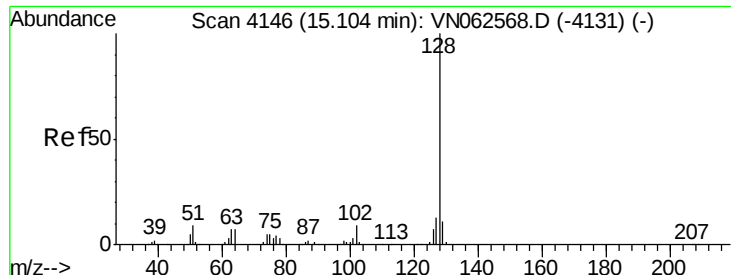
Tot Ion: 75 Resp: 66367
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.732 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062653.D
 Acq: 29 Jul 2020 14:39

Tgt Ion: 75 Resp: 66367
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#

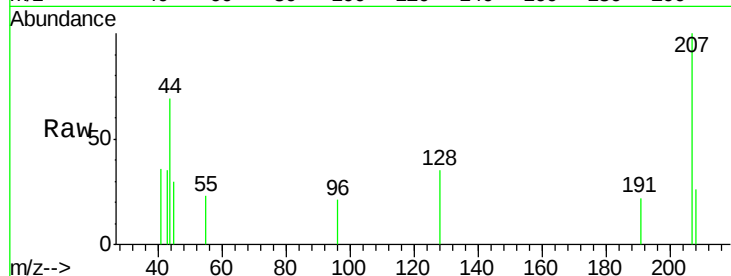




#95
Naphthalene
Concen: 3.848 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062653.D
Acq: 29 Jul 2020 14:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.7	13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

