

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071520\
 Data File : VN062537.D
 Acq On : 15 Jul 2020 15:44
 Operator : JC/MD
 Sample : L3183-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

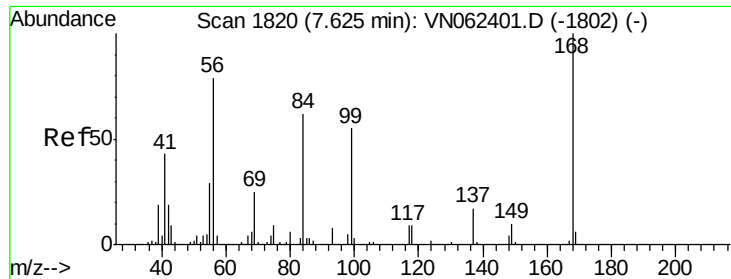
Quant Time: Jul 16 01:06:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	188408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	341796	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	336791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	126128	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	145341	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
35) Dibromofluoromethane	7.55	113	109393	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
50) Toluene-d8	10.06	98	446652	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
62) 4-Bromofluorobenzene	12.37	95	159735	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	14768	10.308	ug/l	97
11) Tert butyl alcohol	4.73	59	159	0.331	ug/l #	74
14) Allyl chloride	4.50	41	29778	6.547	ug/l #	28
16) Acetone	3.78	43	218435	177.540	ug/l	95
18) Methyl Acetate	4.29	43	4426	1.442	ug/l #	83
20) Methylene Chloride	4.50	84	645952	245.554	ug/l	95
25) 2-Butanone	6.80	43	3046	1.695	ug/l #	87
29) Tetrahydrofuran	7.18	42	284	0.235	ug/l #	57
31) Cyclohexane	7.62	56	4538	1.031	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16158	4.692	ug/l #	52
38) Carbon Tetrachloride	7.63	117	19470	6.289	ug/l #	15
43) Isopropyl Acetate	8.13	43	75359	11.847	ug/l	93
45) 1,2-Dichloropropane	9.23	63	1240	0.421	ug/l #	44
48) Methyl methacrylate	9.15	41	4414	1.415	ug/l #	17
51) 4-Methyl-2-Pentanone	9.96	43	7193	1.893	ug/l	88
54) cis-1,3-Dichloropropene	9.88	75	29615	6.740	ug/l #	60
56) Ethyl methacrylate	10.51	69	1114	1.965	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4987	1.171	ug/l #	43
59) 2-Hexanone	10.74	43	76666	27.796	ug/l #	55
74) N-amyl acetate	12.01	43	3088	0.650	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	85043	27.480	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	85043	73.552	ug/l #	10
95) Naphthalene	15.12	128	157	Below Cal	#	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

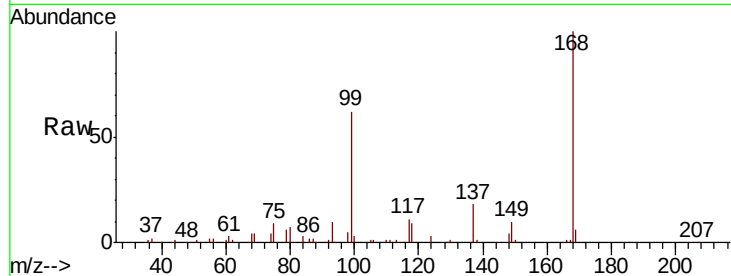
ClientSampled :

Tot Ion:168 Resp: 188408

Ion Ratio Lower Upper

168 100

99 61.6 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): VN062537.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN062537.D (-1727) (-)

7.63

80000

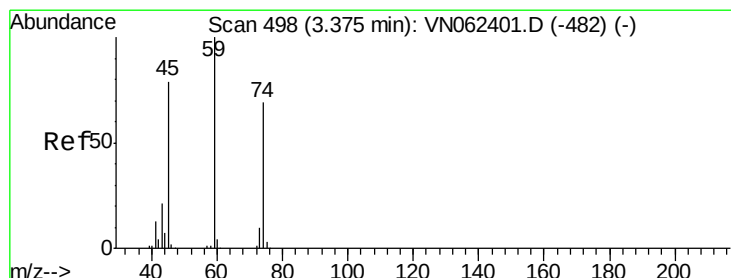
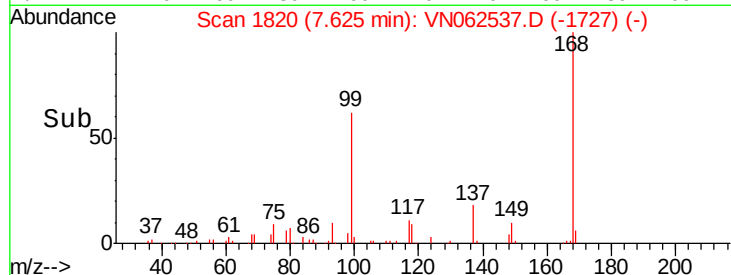
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#8

Diethyl Ether

Concen: 10.308 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.00 min

Lab File: VN062537.D

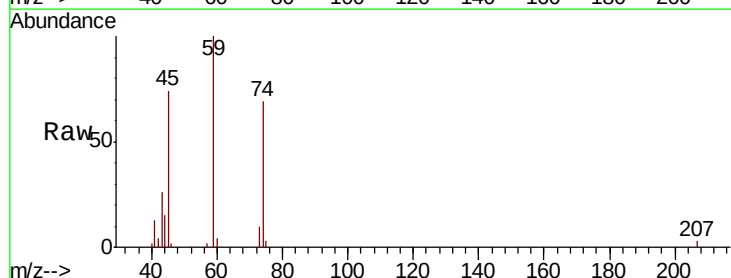
Acq: 15 Jul 2020 15:44

Tgt Ion: 74 Resp: 14768

Ion Ratio Lower Upper

74 100

45 113.7 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VN062537.D (-405) (-)

Ion 45.00 (44.70 to 45.70): VN062537.D (-405) (-)

3.38

8000

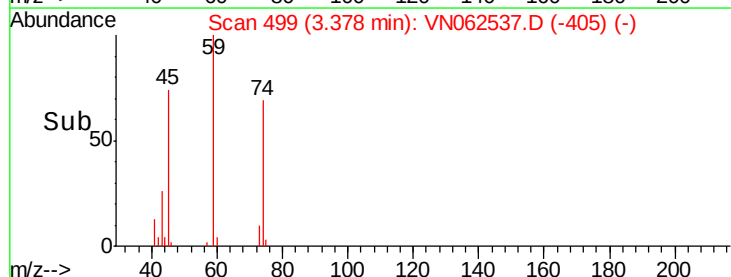
6000

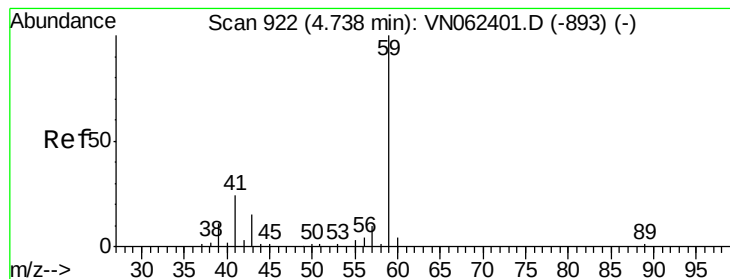
4000

2000

0

Time--> 3.30 3.35 3.40 3.45



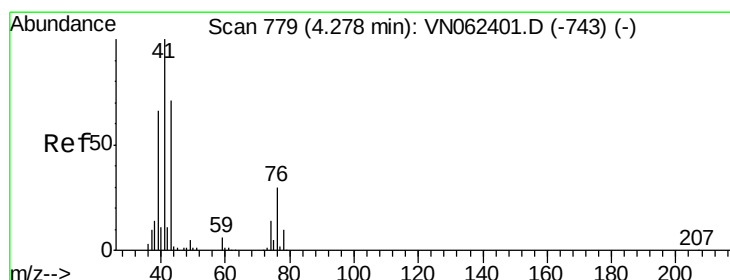
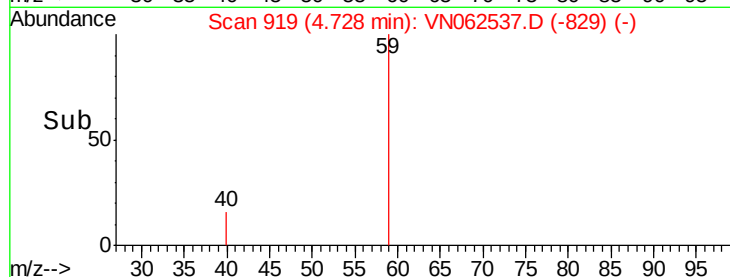
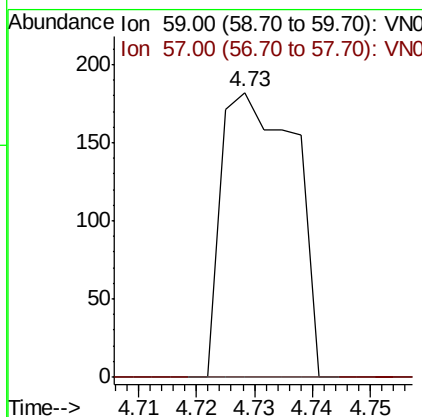
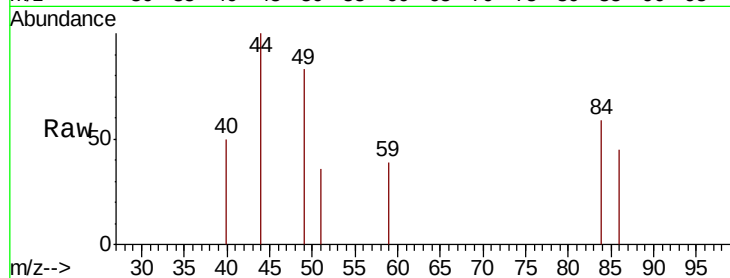


#11

Tert butyl alcohol
 Concen: 0.331 ug/l
 RT: 4.73 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Instrument :
 MSVOA_N
 ClientSampleId :

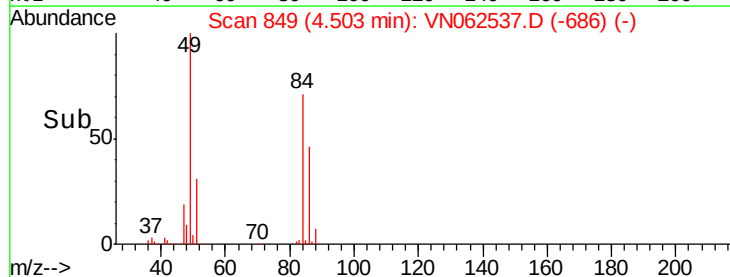
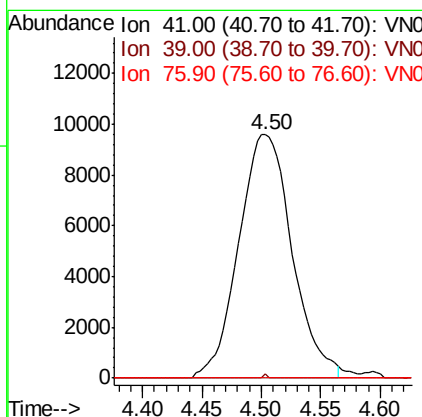
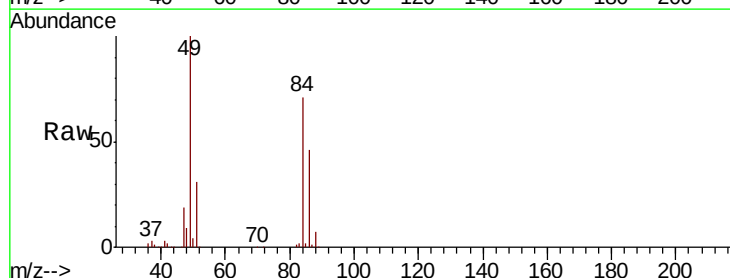
Tot Ion: 59 Resp: 159
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

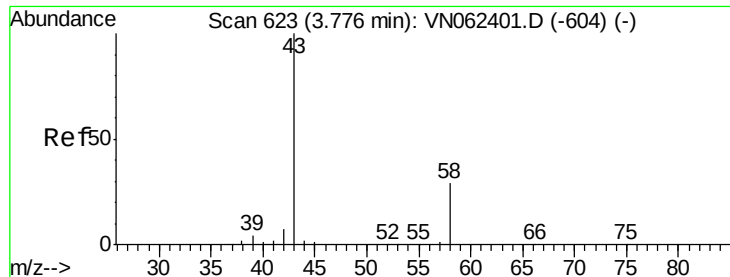


#14

Allyl chloride
 Concen: 6.547 ug/l
 RT: 4.50 min Scan# 849
 Delta R.T. 0.23 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Tgt Ion: 41 Resp: 29778
 Ion Ratio Lower Upper
 41 100
 39 0.1 49.6 74.4#
 76 0.0 22.2 33.4#





#16

Acetone

Concen: 177.540 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

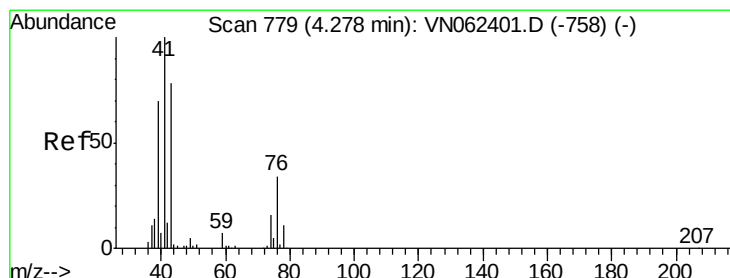
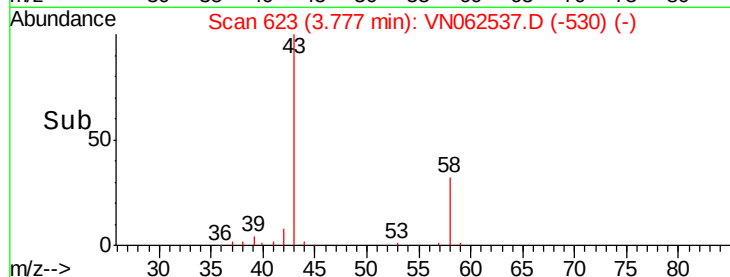
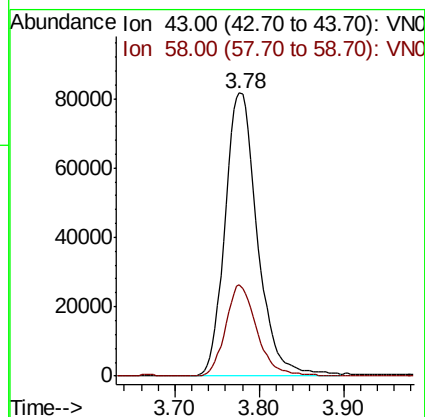
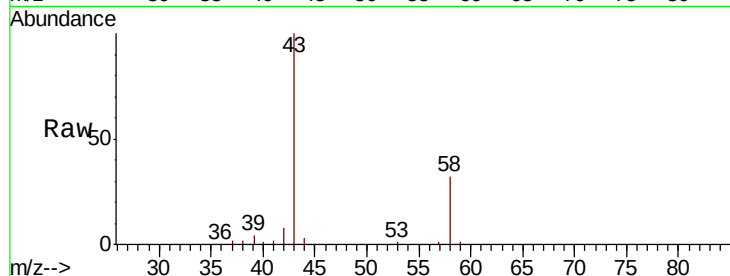
ClientSampled :

Tot Ion: 43 Resp: 218435

Ion Ratio Lower Upper

43 100

58 32.1 23.5 35.3



#18

Methyl Acetate

Concen: 1.442 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062537.D

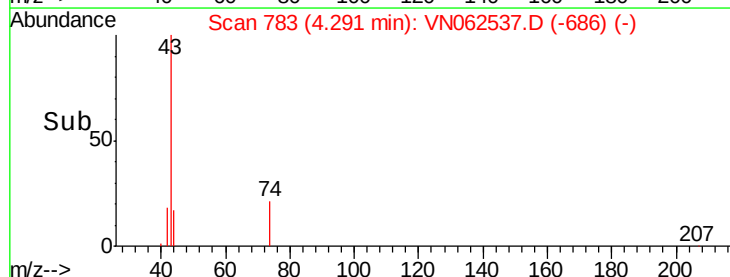
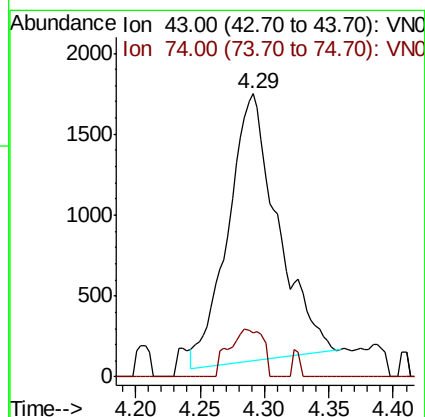
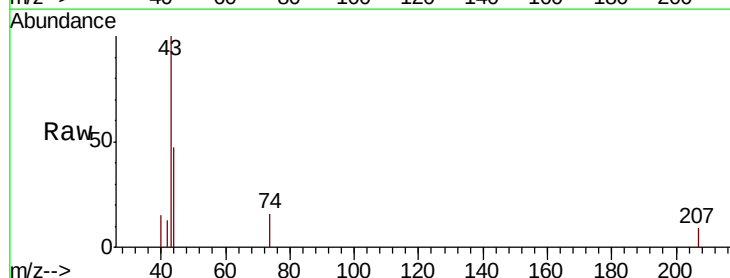
Acq: 15 Jul 2020 15:44

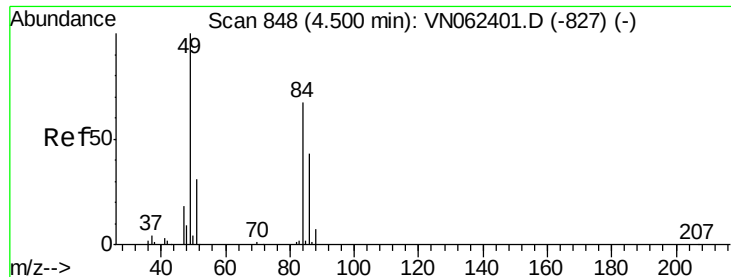
Tgt Ion: 43 Resp: 4426

Ion Ratio Lower Upper

43 100

74 12.2 16.0 24.0#





#20

Methylene Chloride

Concen: 245.554 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.00 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 645952

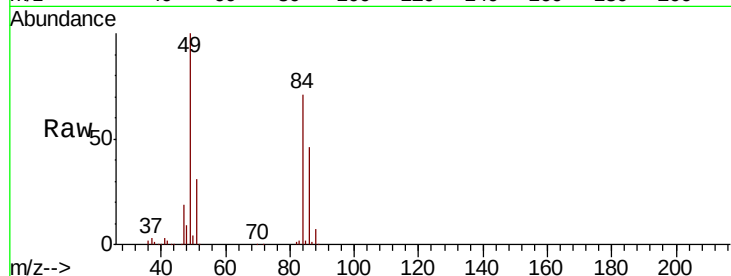
Ion Ratio Lower Upper

84 100

49 141.1 120.0 180.0

51 43.7 37.0 55.6

86 64.4 51.8 77.6

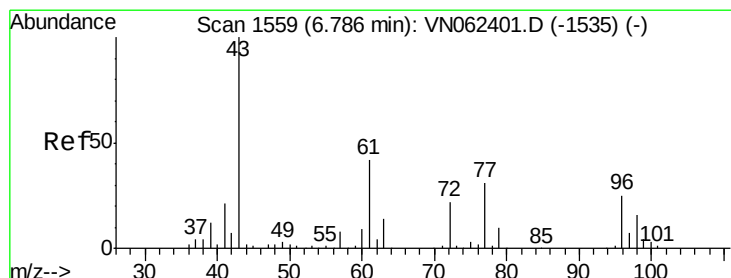
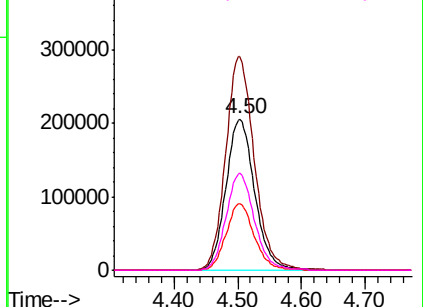
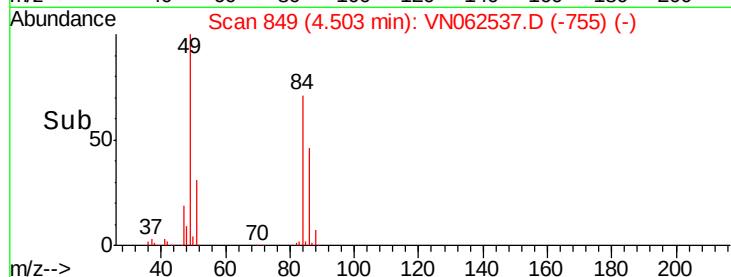


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.695 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.02 min

Lab File: VN062537.D

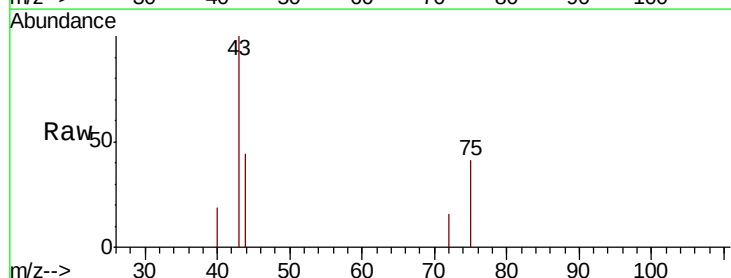
Acq: 15 Jul 2020 15:44

Tgt Ion: 43 Resp: 3046

Ion Ratio Lower Upper

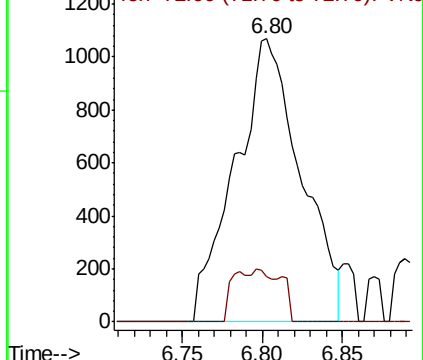
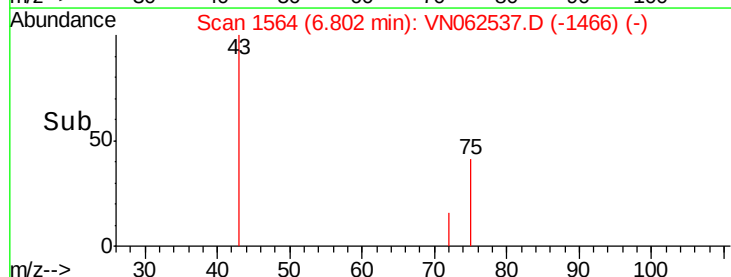
43 100

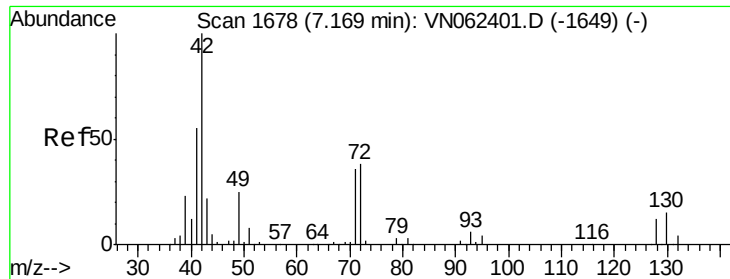
72 16.2 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.235 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

ClientSampled :

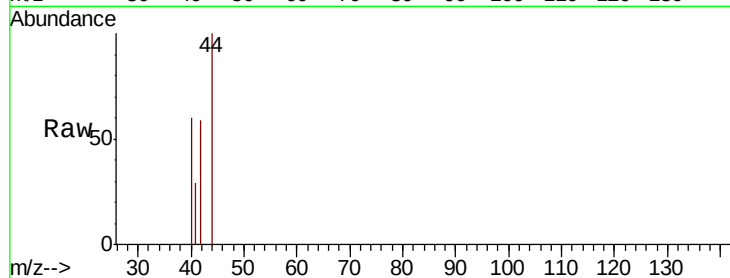
Tot Ion: 42 Resp: 284

Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

71 20.8 28.1 42.1#

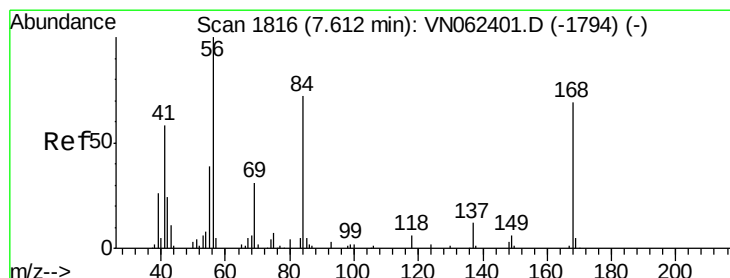
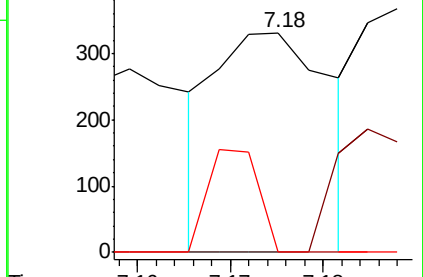
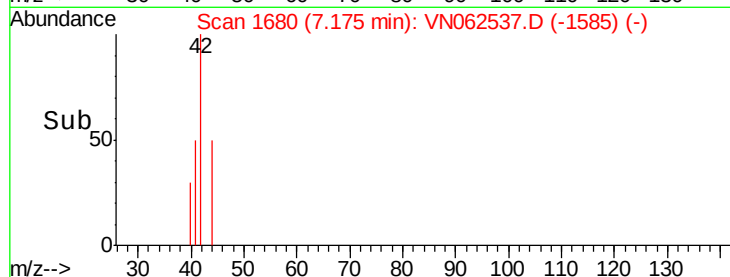


Abundance Ion 42.00 (41.70 to 42.70): VN062537.D (-1680) (-)

Ion 72.00 (71.70 to 72.70): VN062537.D (-1680) (-)

Ion 71.00 (70.70 to 71.70): VN062537.D (-1680) (-)

Time-->



#31

Cyclohexane

Concen: 1.031 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

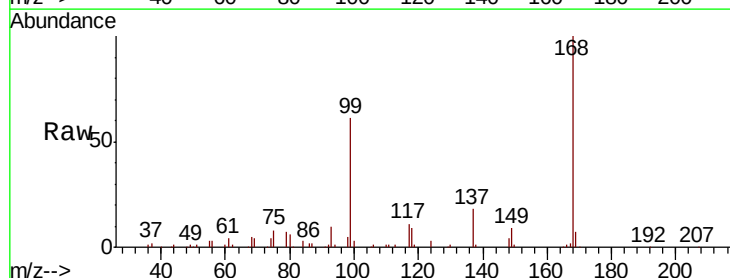
Tgt Ion: 56 Resp: 4538

Ion Ratio Lower Upper

56 100

69 164.6 24.5 36.7#

84 109.2 57.4 86.2#

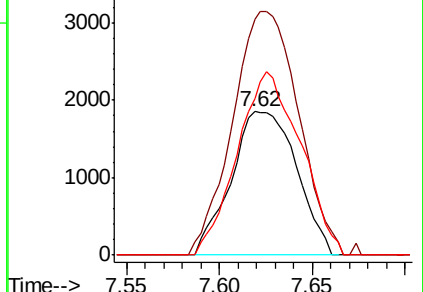
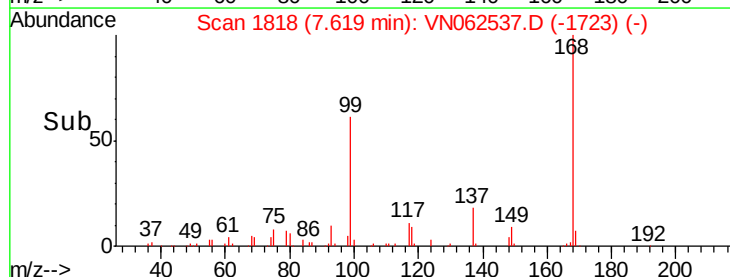


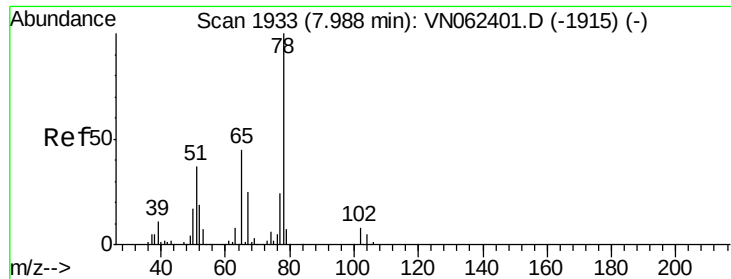
Abundance Ion 56.00 (55.70 to 56.70): VN062537.D (-1816) (-)

Ion 69.00 (68.70 to 69.70): VN062537.D (-1816) (-)

Ion 84.00 (83.70 to 84.70): VN062537.D (-1816) (-)

Time-->

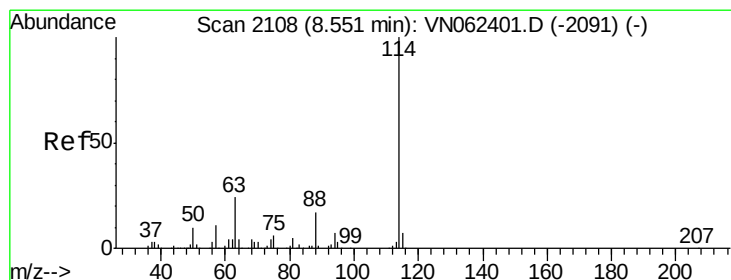
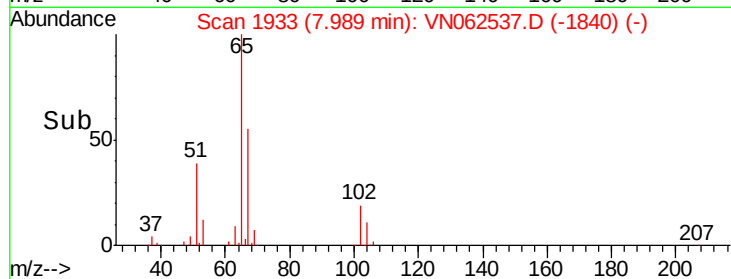
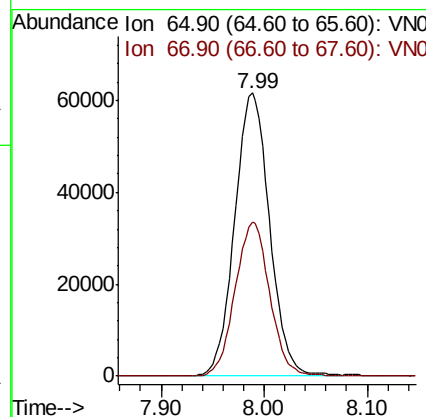
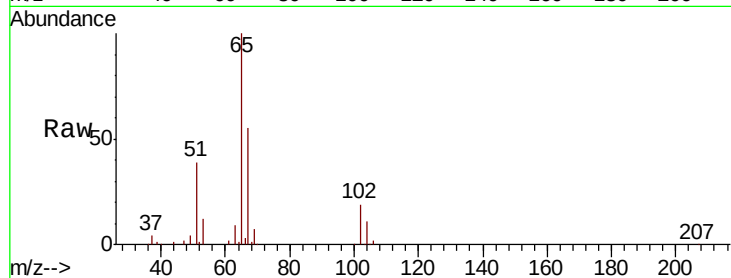




#33
 1,2-Dichloroethane-d4
 Concen: 50.153 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

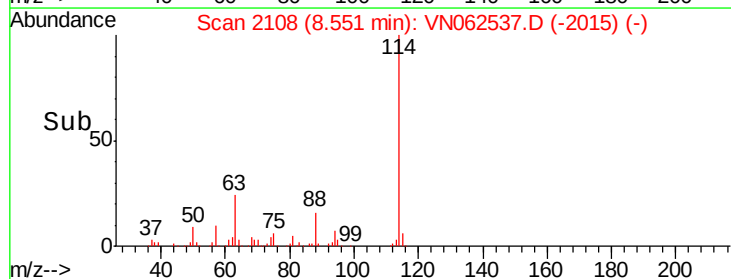
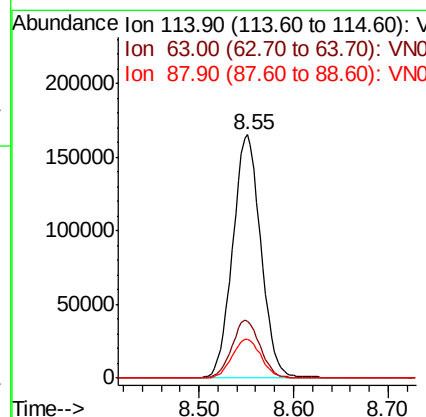
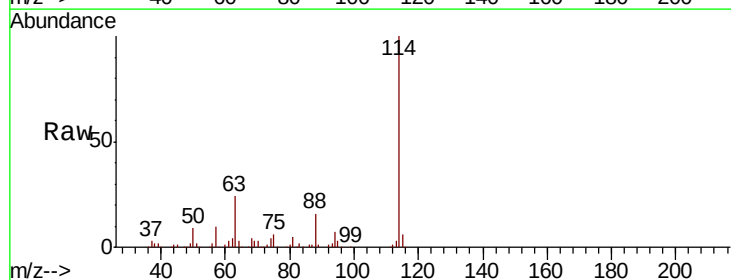
Instrument :
 MSVOA_N
 ClientSampleId :

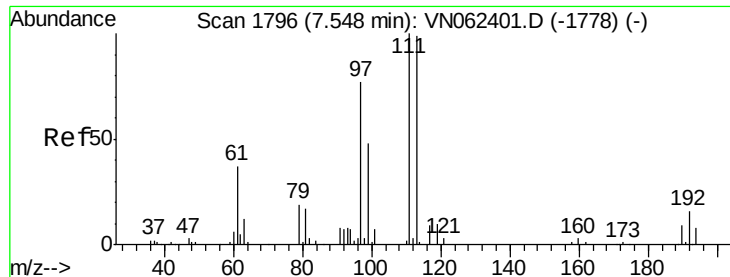
Tot Ion: 65 Resp: 145341
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Tgt Ion: 114 Resp: 341796
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 48.4
 88 16.1 0.0 33.8

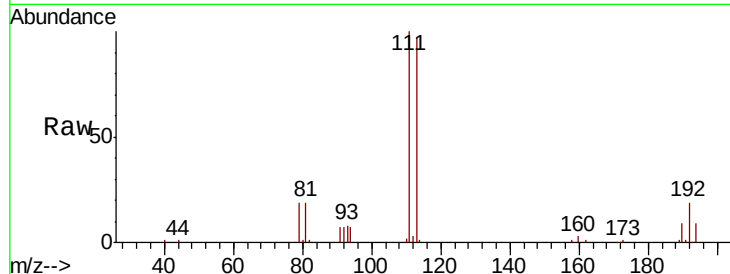




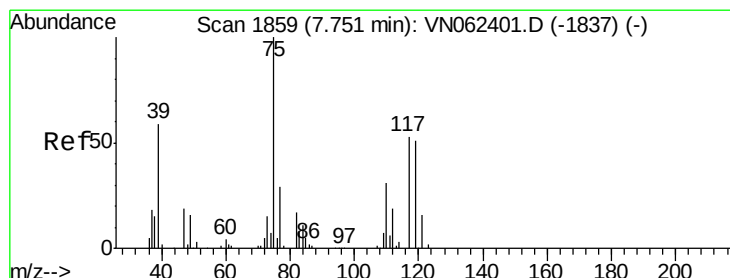
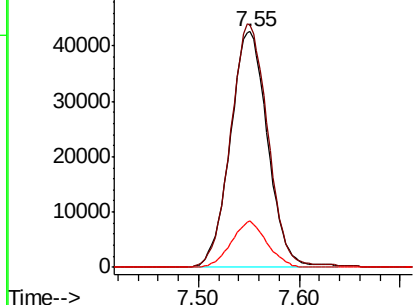
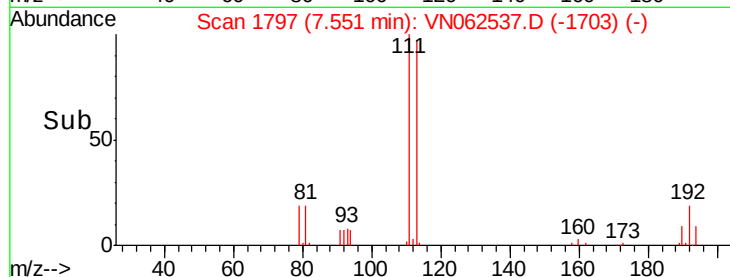
#35
 Dibromofluoromethane
 Concen: 51.777 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.1	124.7
192	18.6	14.1	21.1

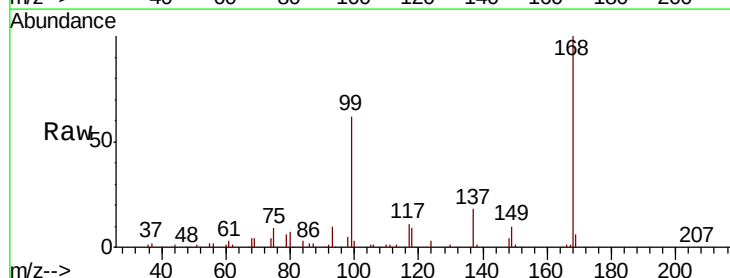


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

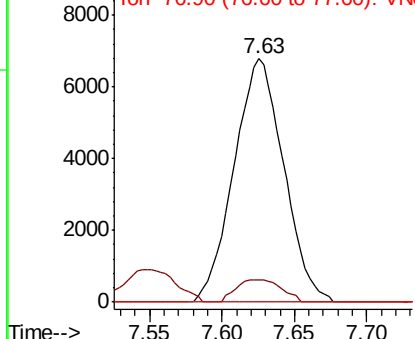
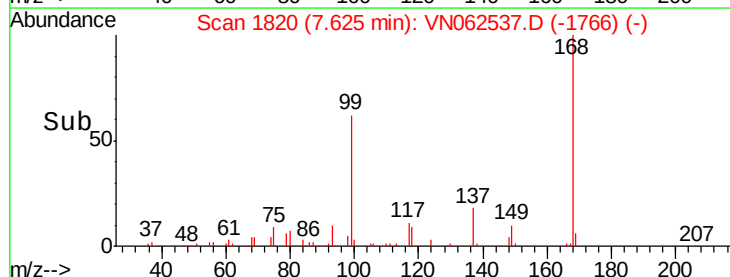


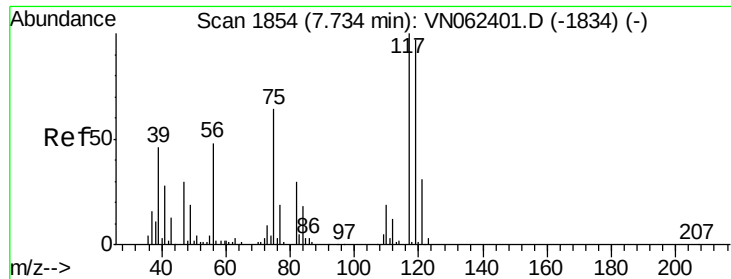
#36
 1,1-Dichloropropene
 Concen: 4.692 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	15.4	46.2#
77	0.0	24.1	36.1#



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





#38

Carbon Tetrachloride

Concen: 6.289 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

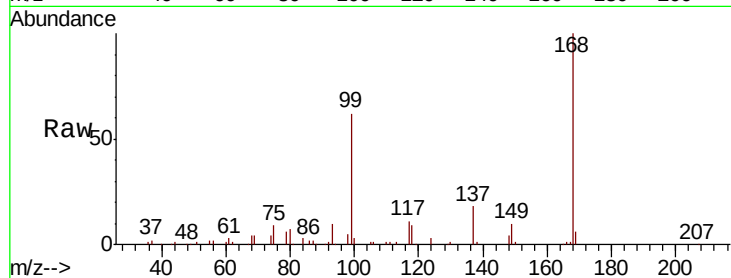
Tot Ion:117 Resp: 19470

Ion Ratio Lower Upper

117 100

119 4.5 77.2 115.8#

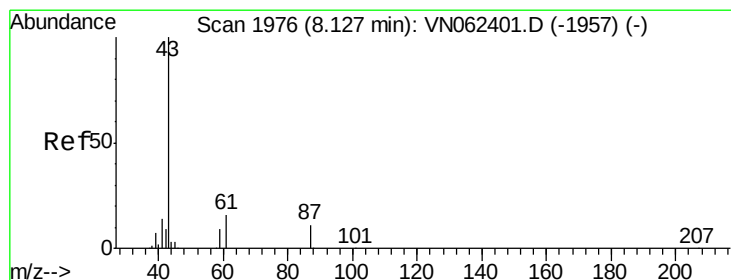
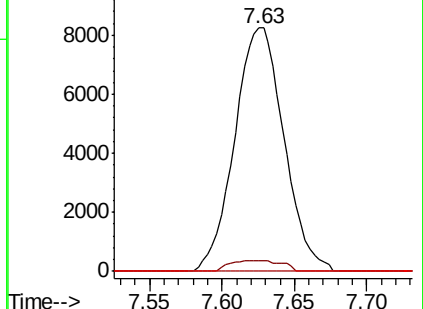
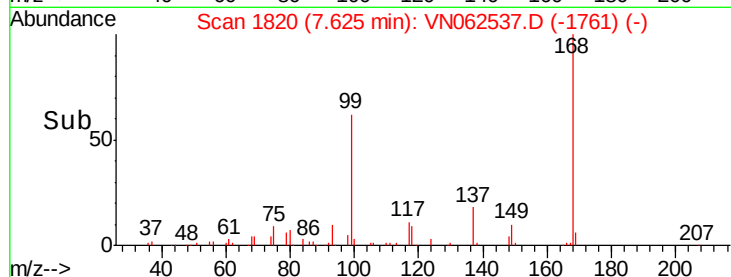
121 0.0 24.8 37.2#



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: 11.847 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

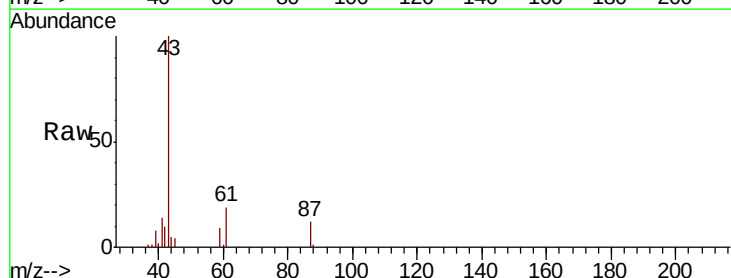
Tgt Ion: 43 Resp: 75359

Ion Ratio Lower Upper

43 100

61 19.3 19.3 28.9

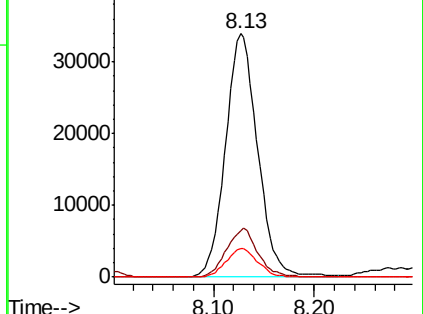
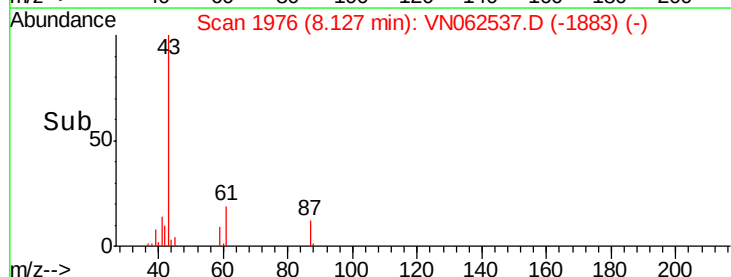
87 11.4 8.6 13.0

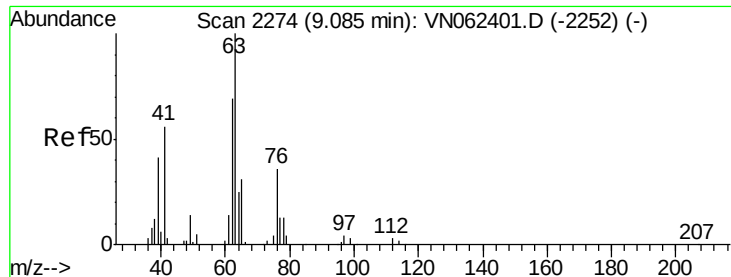


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.421 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

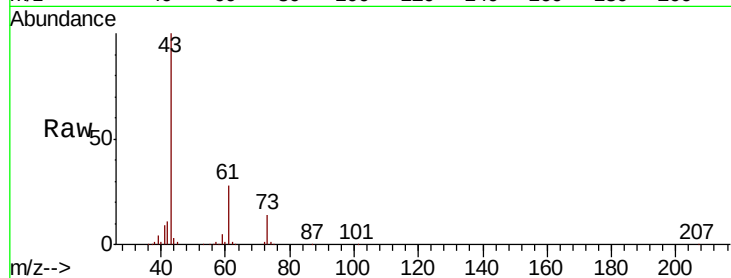
ClientSampleId :

Tot Ion: 63 Resp: 1240

Ion Ratio Lower Upper

63 100

65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

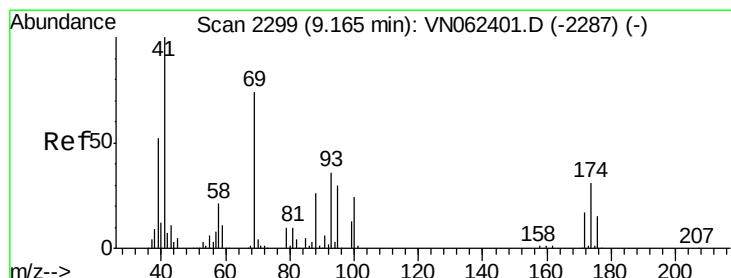
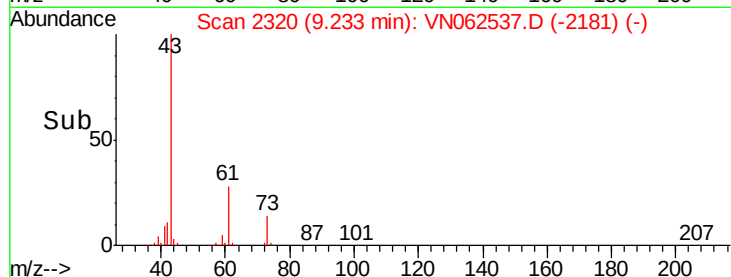
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.415 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

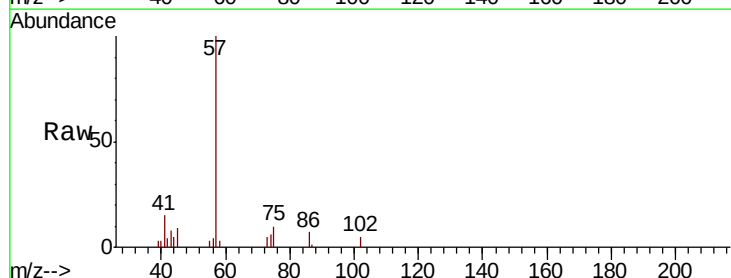
Tgt Ion: 41 Resp: 4414

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

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

60000

50000

40000

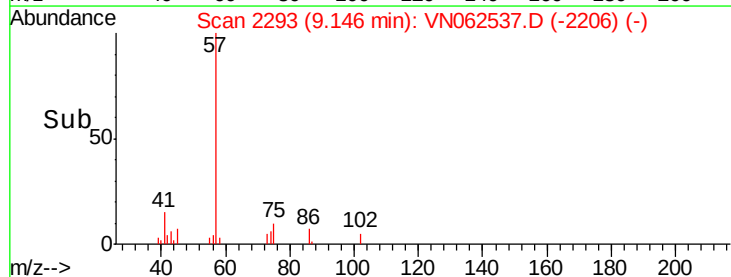
30000

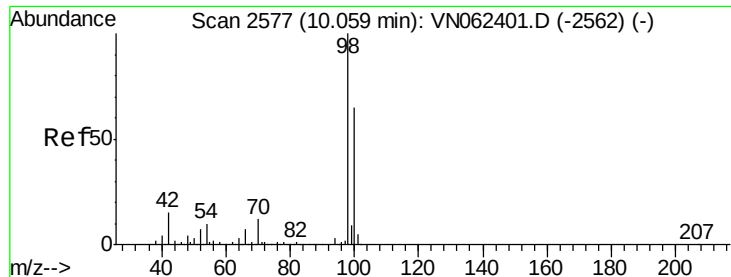
20000

10000

0

Time-->

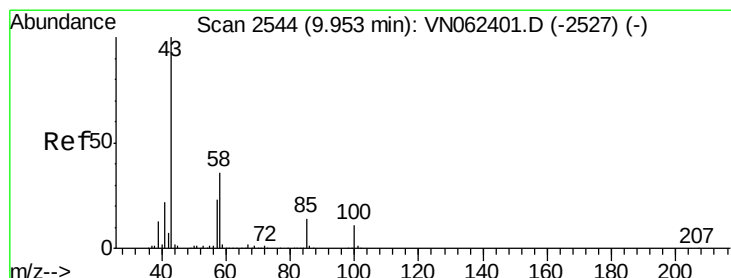
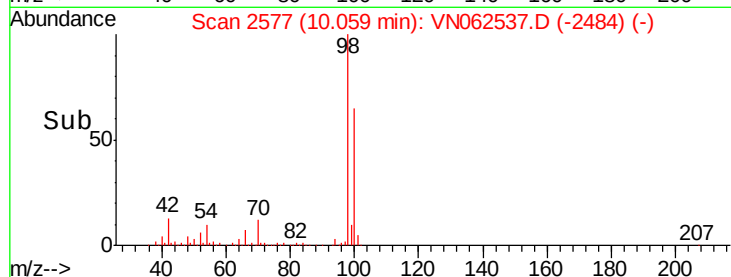
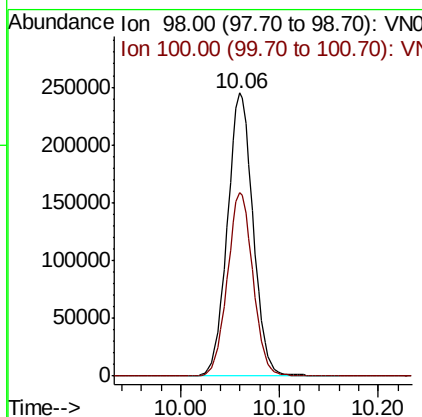
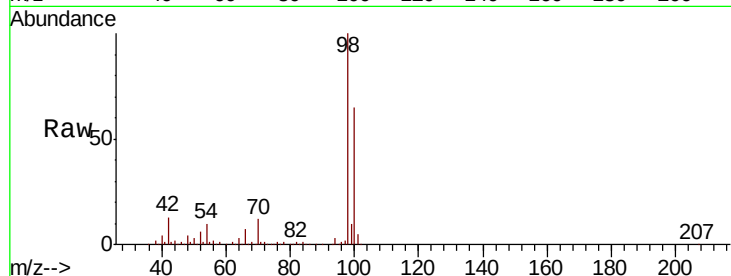




#50
Toluene-d8
Concen: 53.552 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

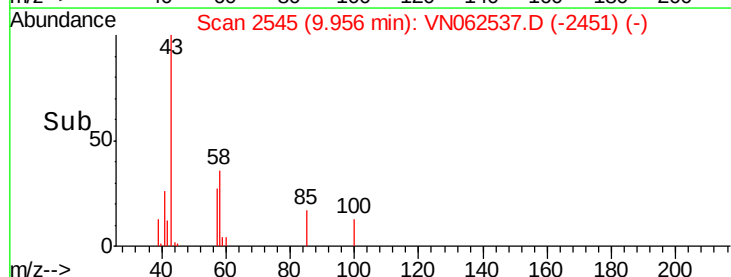
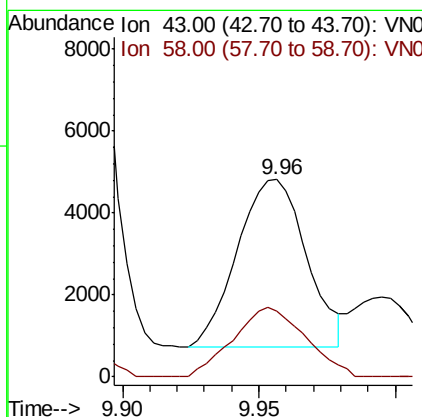
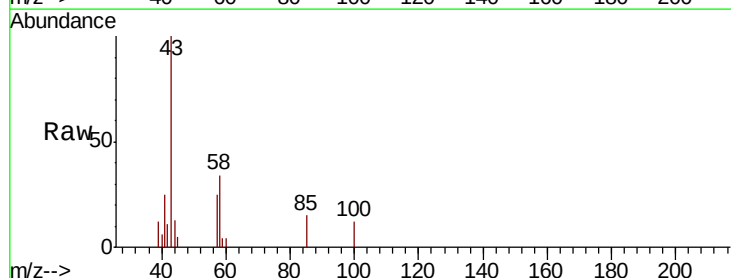
Instrument :
MSVOA_N
ClientSampled :

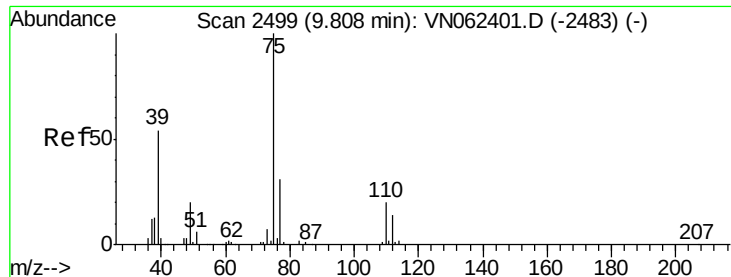
Tot Ion: 98 Resp: 446652
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.893 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

Tgt Ion: 43 Resp: 7193
Ion Ratio Lower Upper
43 100
58 43.4 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 6.740 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

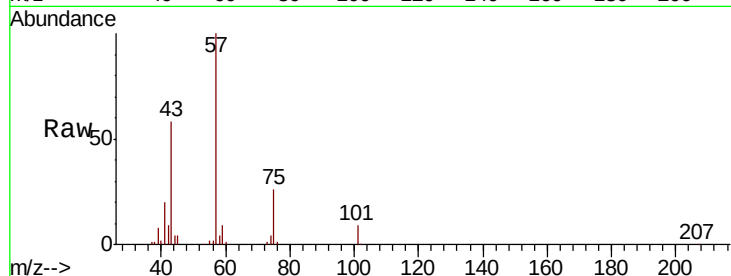
Tot Ion: 75 Resp: 29615

Ion Ratio Lower Upper

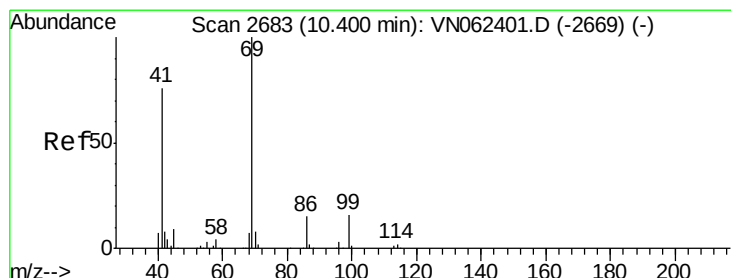
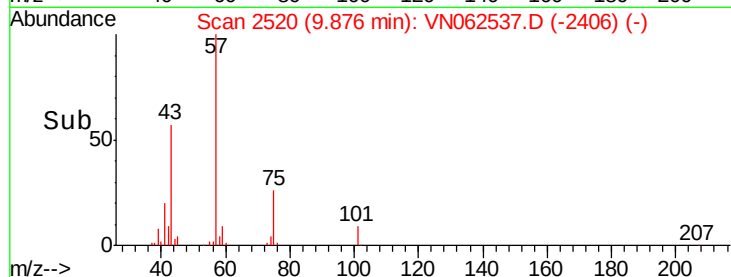
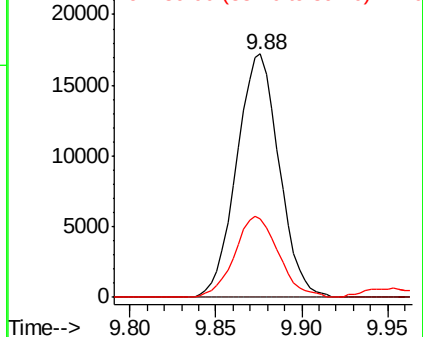
75 100

77 0.0 24.5 36.7#

39 32.3 43.4 65.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 1.965 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062537.D

Acq: 15 Jul 2020 15:44

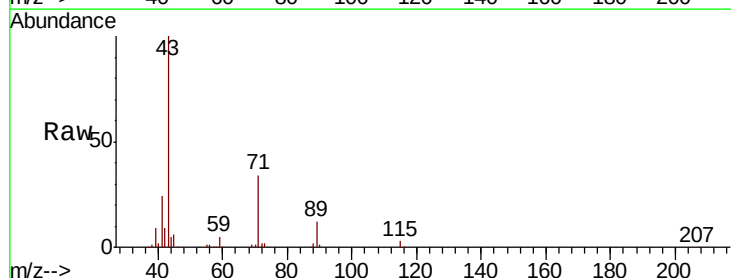
Tgt Ion: 69 Resp: 1114

Ion Ratio Lower Upper

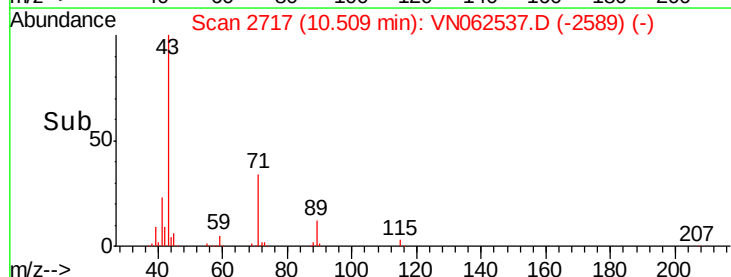
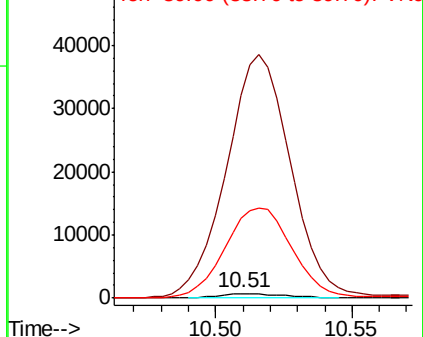
69 100

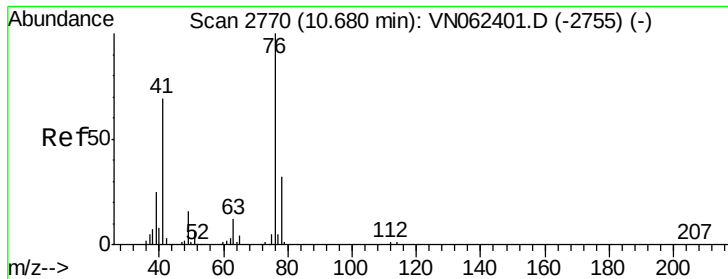
41 5733.6 59.7 89.5#

39 2203.1 30.6 45.8#



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

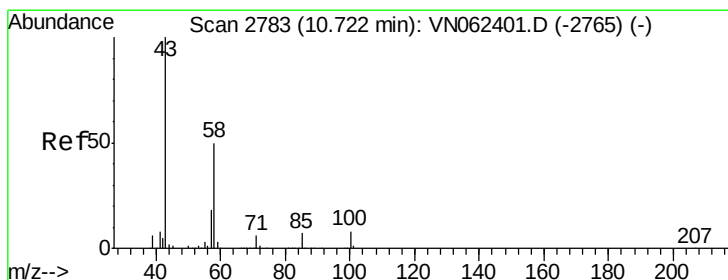
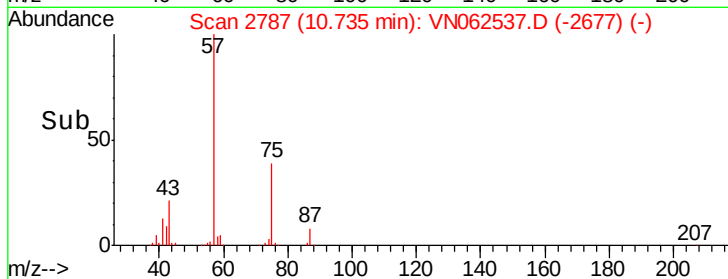
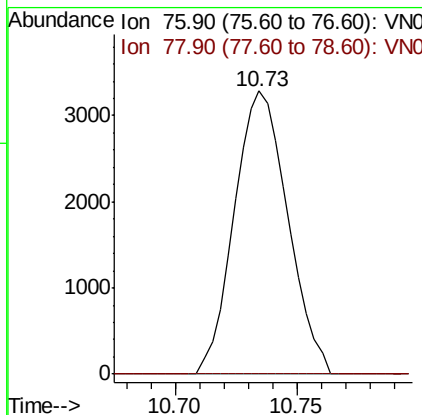
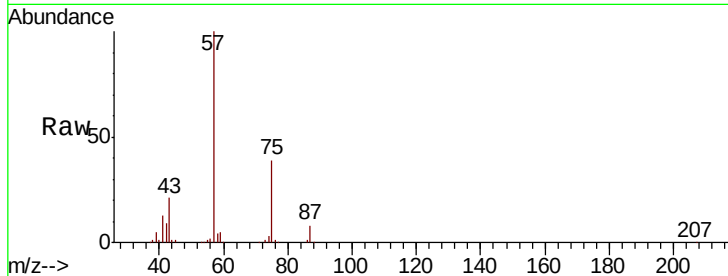




#57
 1,3-Dichloropropane
 Concen: 1.171 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

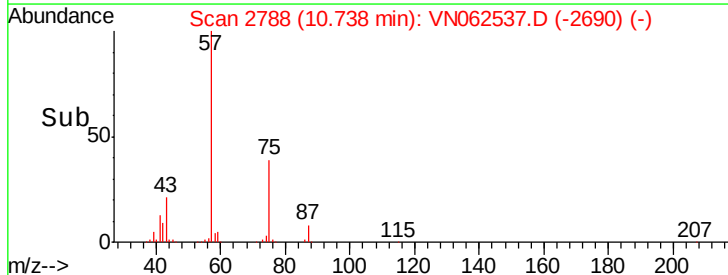
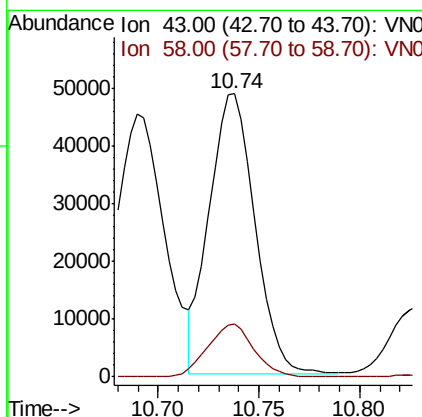
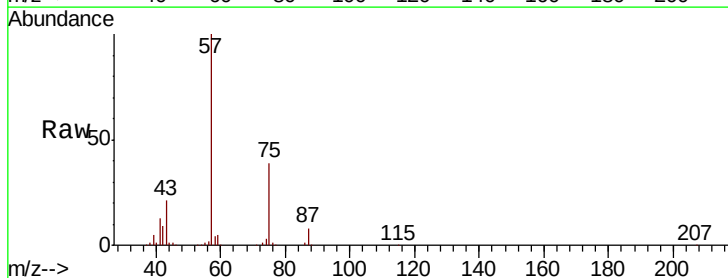
Instrument :
 MSVOA_N
 ClientSampleId :

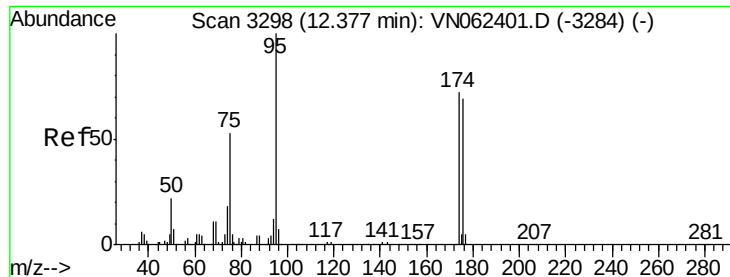
Tot Ion: 76 Resp: 4987
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 27.796 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Tgt Ion: 43 Resp: 76666
 Ion Ratio Lower Upper
 43 100
 58 19.0 25.1 75.2#

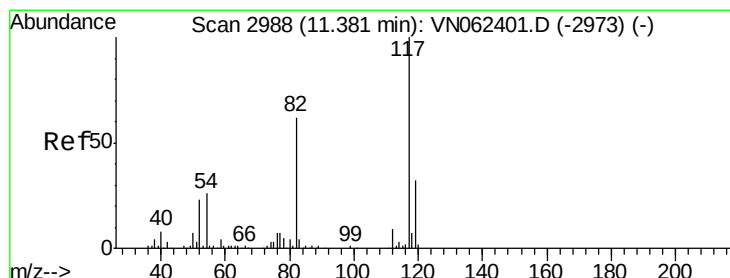
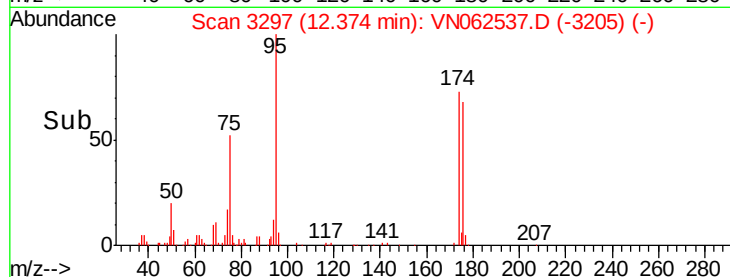
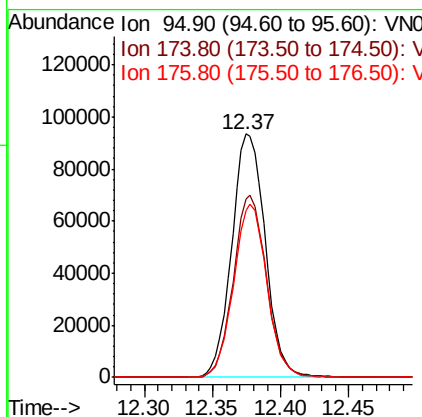
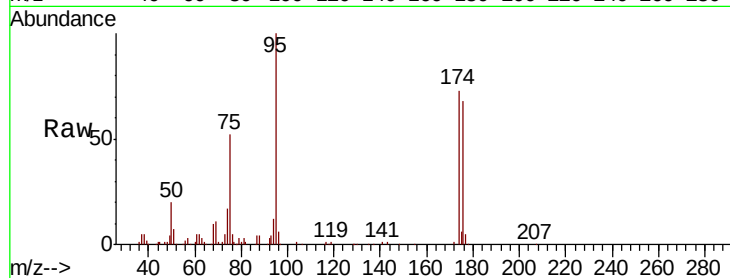




#62
4-Bromofluorobenzene
Concen: 52.408 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

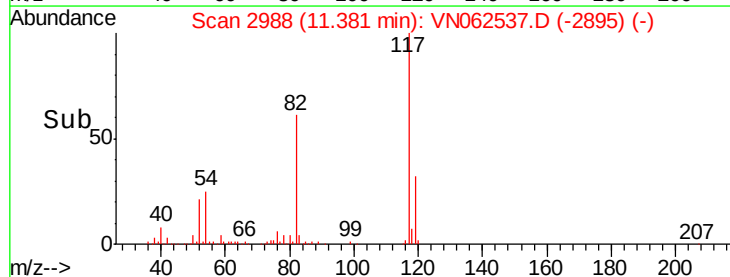
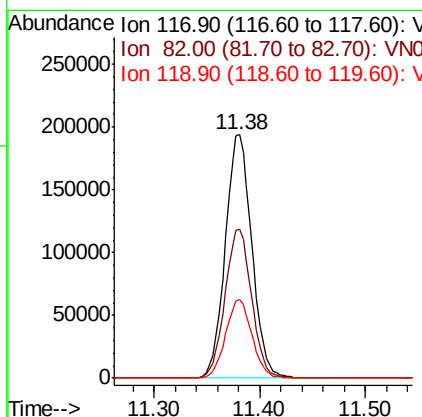
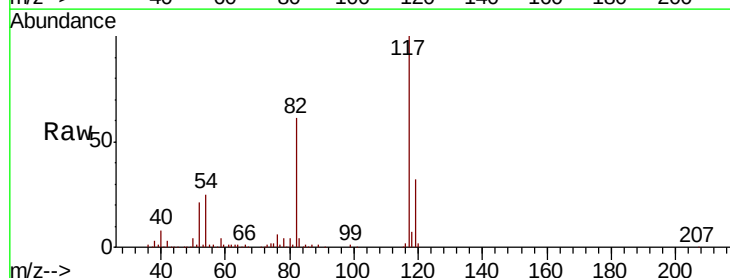
Instrument :
MSVOA_N
ClientSampleId :

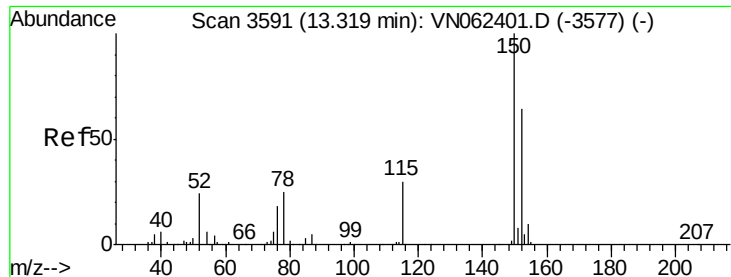
Tot Ion	95	Resp	159735
Ion Ratio	Lower	Upper	
95	100		
174	73.8	0.0	141.6
176	70.4	0.0	137.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

Tgt Ion	117	Resp	336791
Ion Ratio	Lower	Upper	
117	100		
82	61.3	49.6	74.4
119	32.4	25.4	38.0



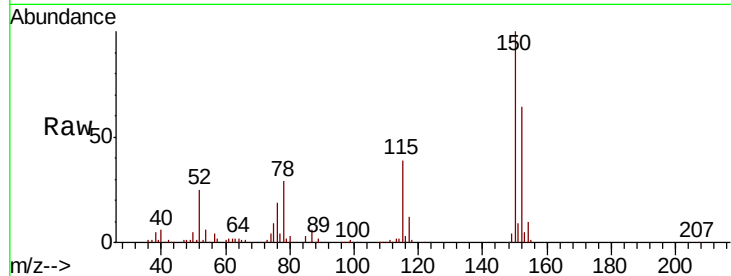


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3590
Delta R.T. -0.00 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.5	31.4	94.2
150	157.5	0.0	347.4

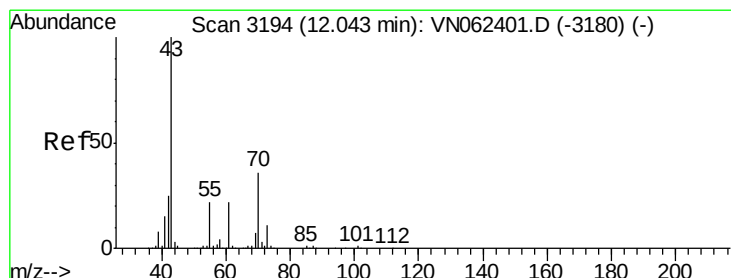
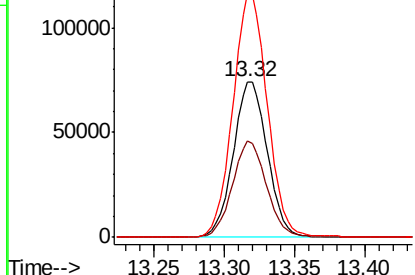
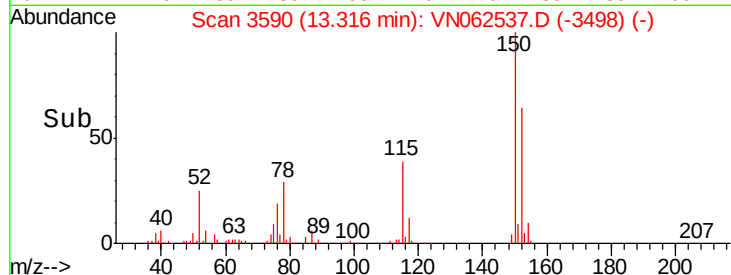


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

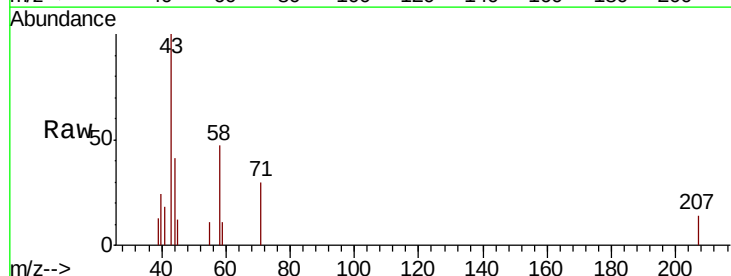
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.650 ug/l
RT: 12.01 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	30.0	45.0#
55	3.2	18.2	27.4#
61	0.0	17.7	26.5#



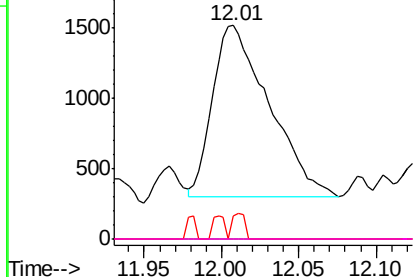
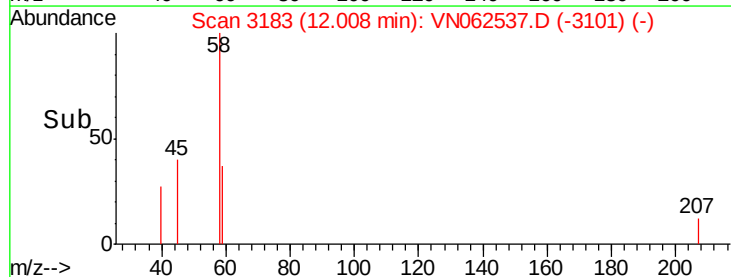
Abundance

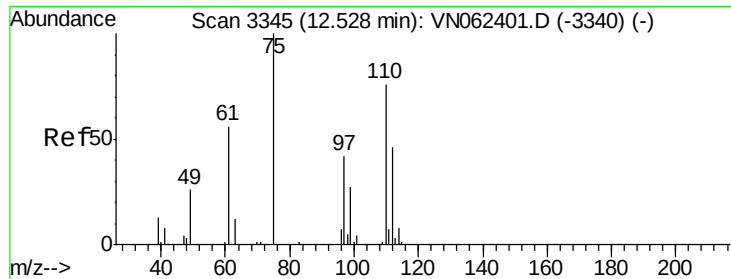
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

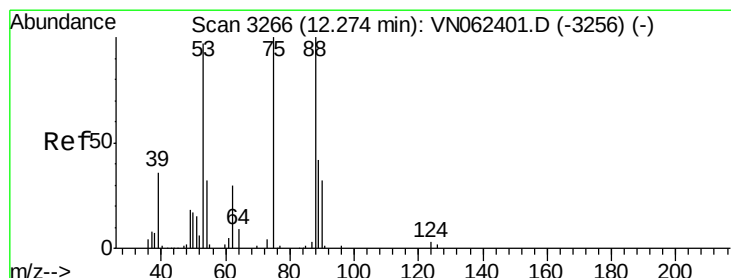
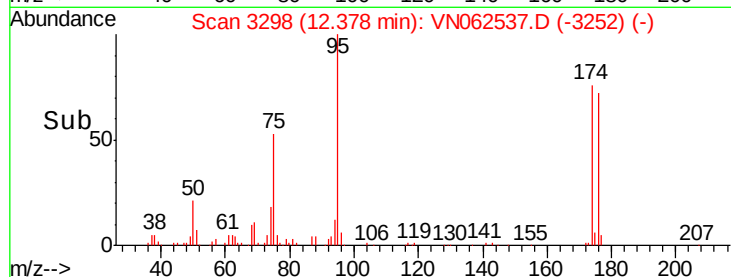
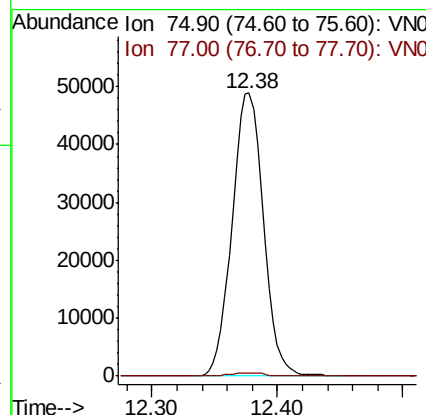
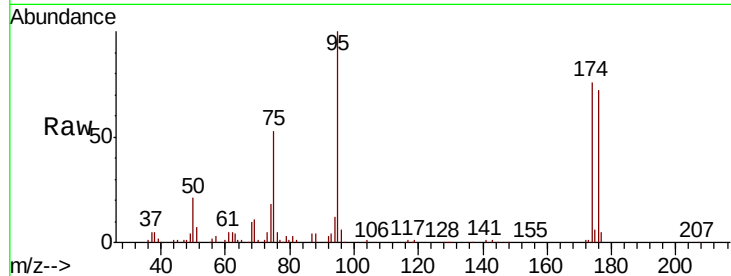




#76
 1,2,3-Trichloropropane
 Concen: 27.480 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

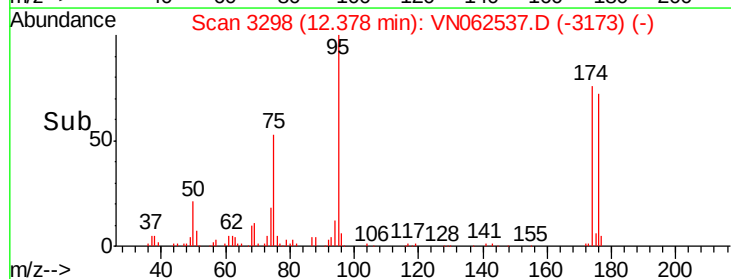
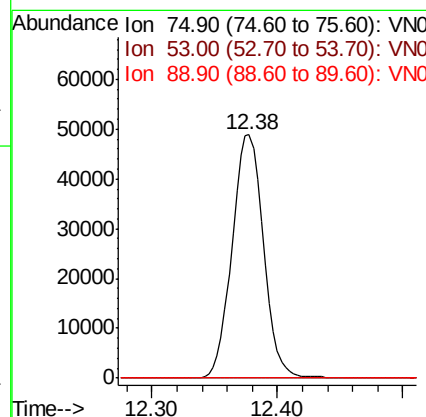
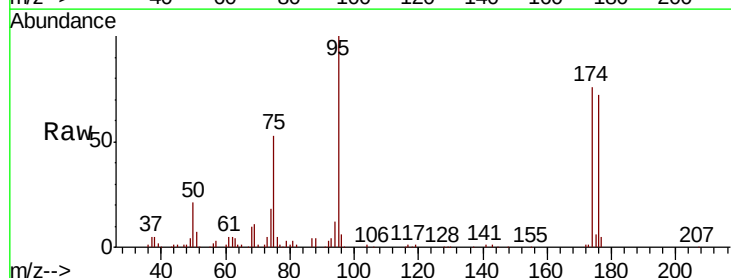
Instrument :
 MSVOA_N
 ClientSampled :

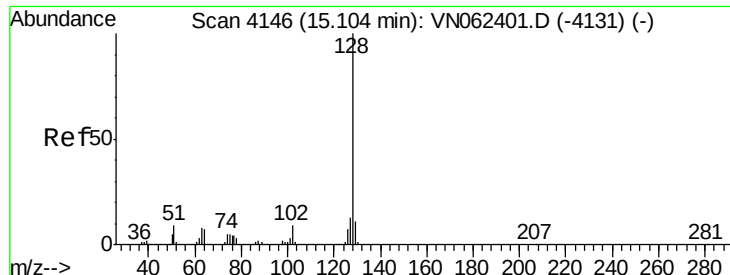
Tot Ion: 75 Resp: 85043
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.552 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062537.D
 Acq: 15 Jul 2020 15:44

Tgt Ion: 75 Resp: 85043
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 34.6 52.0#





#95
Naphthalene
Concen: Below Cal
RT: 15.12 min Scan# 4150
Delta R.T. 0.01 min
Lab File: VN062537.D
Acq: 15 Jul 2020 15:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.6	12.8#

