

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061570.D
 Acq On : 29 May 2020 16:22
 Operator : JC/MD
 Sample : PB129155ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:43:57 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	272936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	495228	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	501825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	227223	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	177067	54.45	ug/l	0.00
Spiked Amount			Recovery	=	108.90%	
35) Dibromofluoromethane	7.55	113	130640	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
50) Toluene-d8	10.06	98	623395	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
62) 4-Bromofluorobenzene	12.38	95	233701	55.02	ug/l	0.00
Spiked Amount			Recovery	=	110.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	1168	0.649	ug/l	79
11) Tert butyl alcohol	4.73	59	206	0.476	ug/l #	72
16) Acetone	3.78	43	12018	7.392	ug/l	96
18) Methyl Acetate	4.28	43	2274	0.772	ug/l #	73
20) Methylene Chloride	4.51	84	4919	Below Cal	#	89
25) 2-Butanone	6.80	43	4293	2.786	ug/l	91
29) Tetrahydrofuran	7.17	42	247	0.243	ug/l #	25
31) Cyclohexane	7.62	56	5668	1.237	ug/l #	21
36) 1,1-Dichloropropene	7.62	75	21159	4.826	ug/l #	44
38) Carbon Tetrachloride	7.63	117	29171	6.898	ug/l #	16
41) Methacrylonitrile	7.16	41	333	0.206	ug/l #	15
43) Isopropyl Acetate	8.13	43	67269	10.589	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1461	0.455	ug/l #	44
48) Methyl methacrylate	9.14	41	4115	1.440	ug/l #	5
49) 1,4-Dioxane	9.17	88	29	0.655	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6639	1.854	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	34862	6.167	ug/l #	63
56) Ethyl methacrylate	10.51	69	1094	0.223	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6558	1.166	ug/l #	42
59) 2-Hexanone	10.74	43	69079	26.868	ug/l #	50
71) Bromoform	12.38	173	1643	0.549	ug/l #	1
74) N-amyl acetate	12.00	43	3642	0.697	ug/l #	38
76) 1,2,3-Trichloropropane	12.37	75	117692	28.484	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4082	0.294	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.37	75	117692	72.842	ug/l #	15

(#) = 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: VN061570.D

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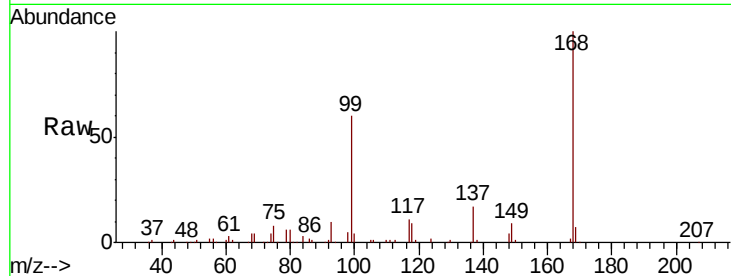
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 272936

Ion Ratio Lower Upper

168 100

99 60.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

120000

100000

80000

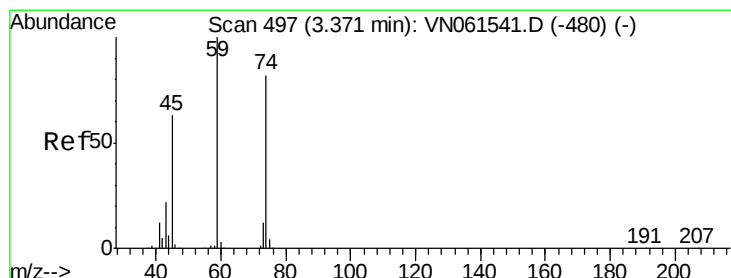
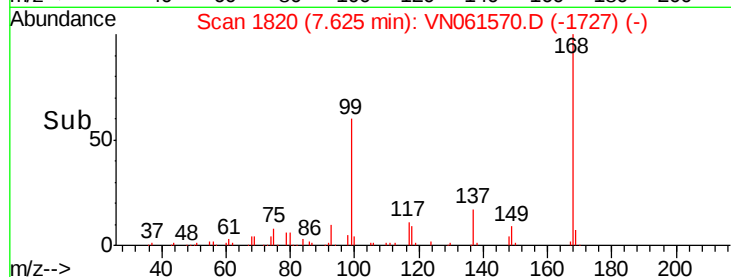
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.649 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN061570.D

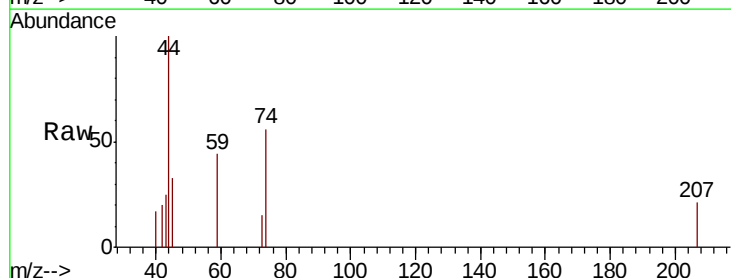
Acq: 29 May 2020 16:22

Tgt Ion: 74 Resp: 1168

Ion Ratio Lower Upper

74 100

45 61.6 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.37

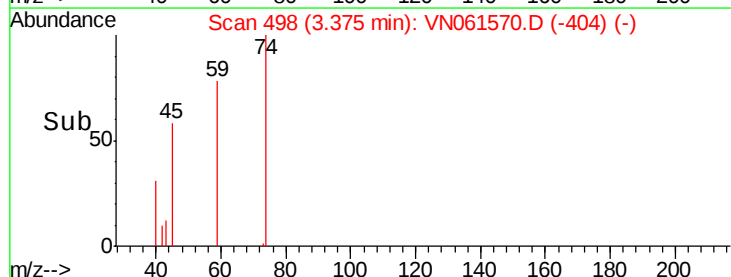
600

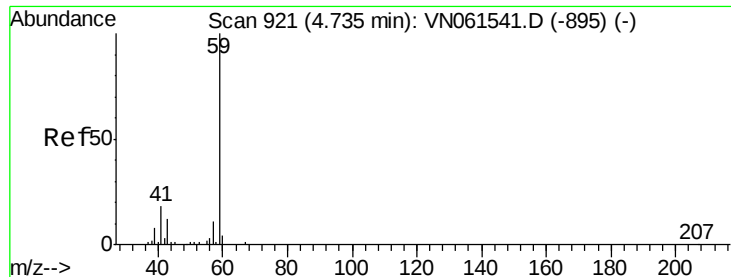
400

200

0

Time--> 3.35 3.40

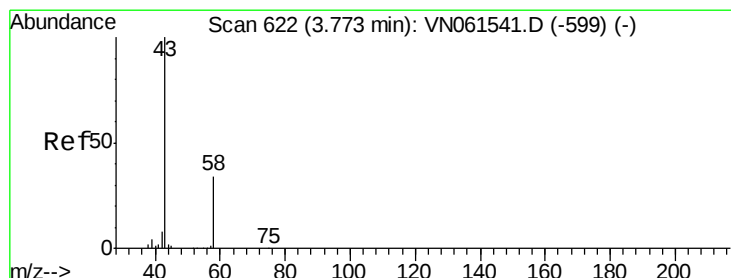
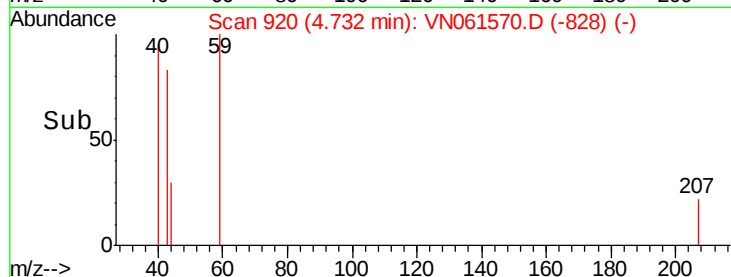
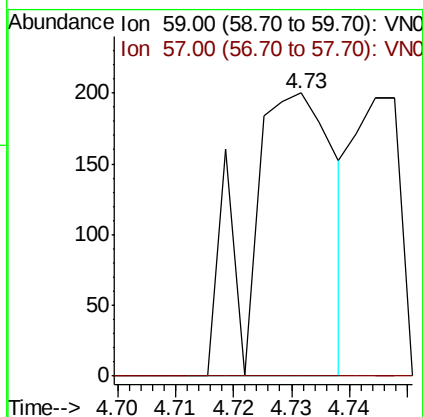
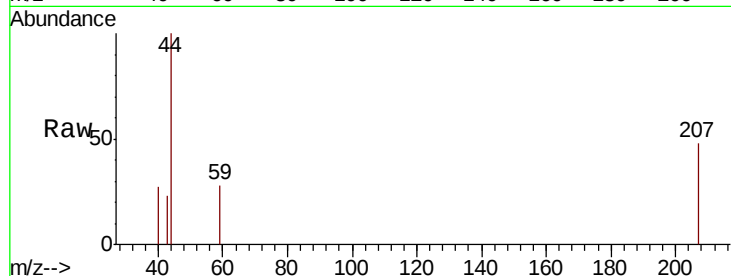




#11
Tert butyl alcohol
Concen: 0.476 ug/l
RT: 4.73 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

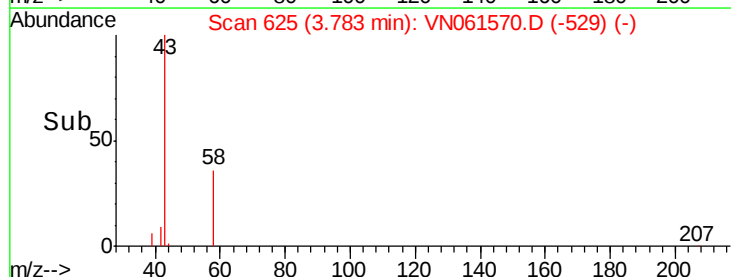
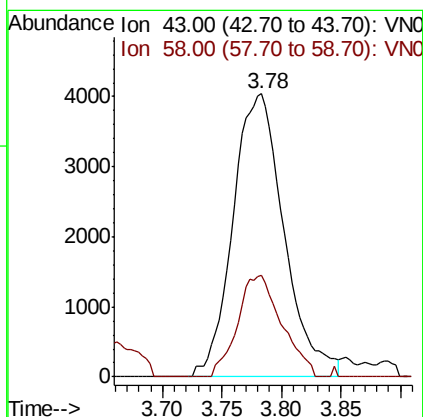
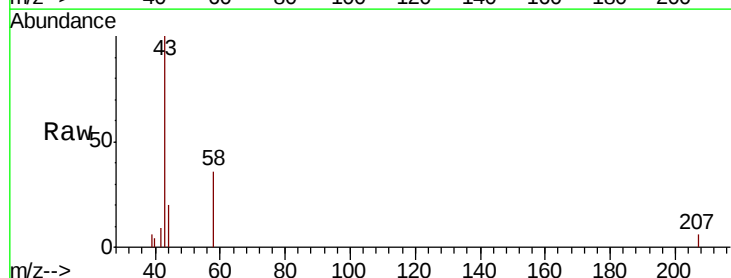
Instrument :
MSVOA_N
ClientSampleId :

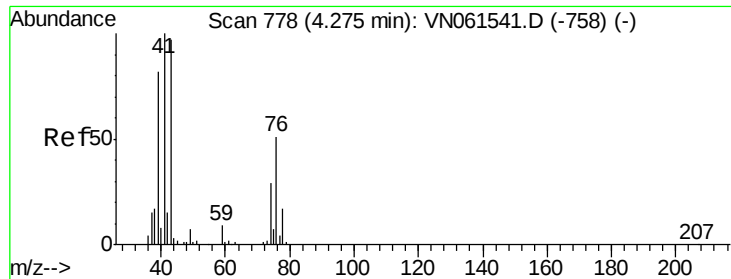
Tot Ion: 59 Resp: 206
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 7.392 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

Tgt Ion: 43 Resp: 12018
Ion Ratio Lower Upper
43 100
58 36.0 27.2 40.8

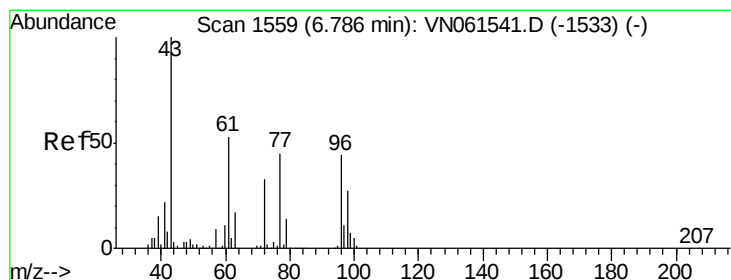
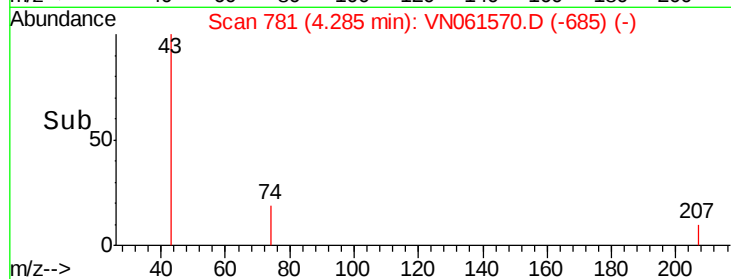
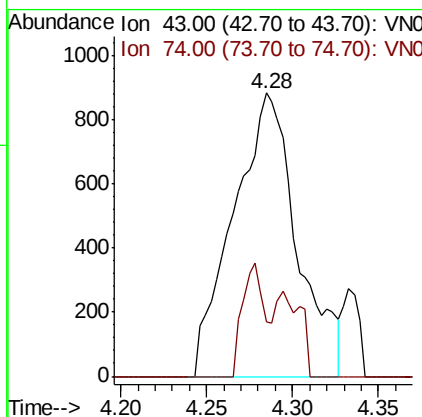
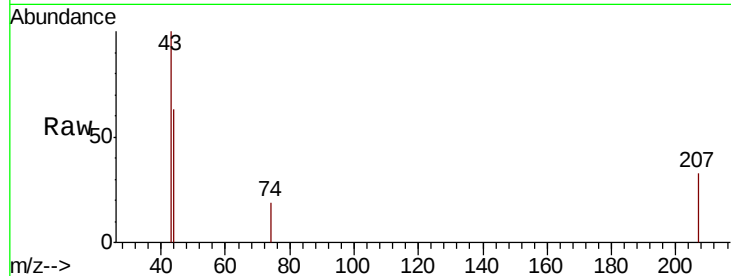




#18
Methvl Acetate
Concen: 0.772 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

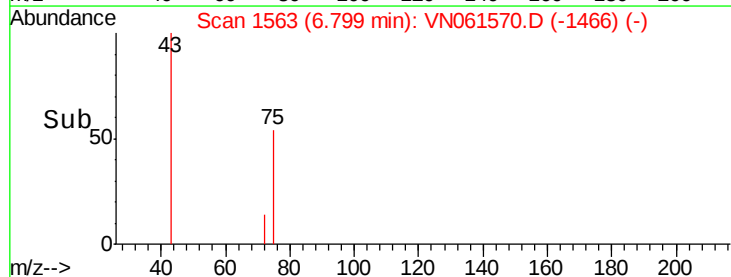
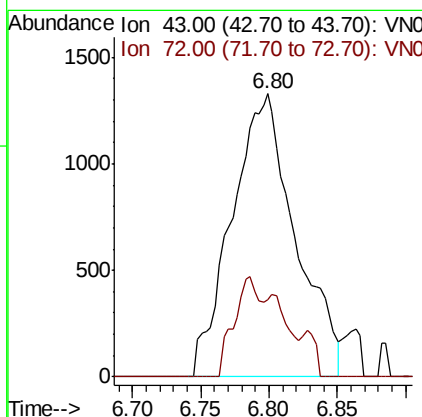
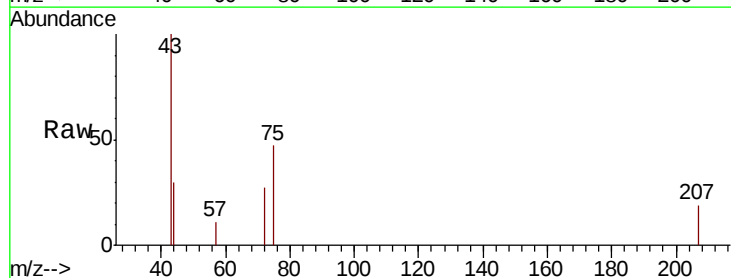
Instrument :
MSVOA_N
ClientSampleId :

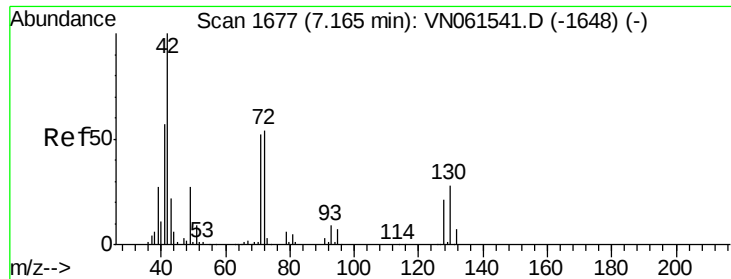
Tot Ion: 43 Resp: 2274
Ion Ratio Lower Upper
43 100
74 14.3 23.2 34.8#



#25
2-Butanone
Concen: 2.786 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

Tgt Ion: 43 Resp: 4293
Ion Ratio Lower Upper
43 100
72 27.4 26.0 39.0

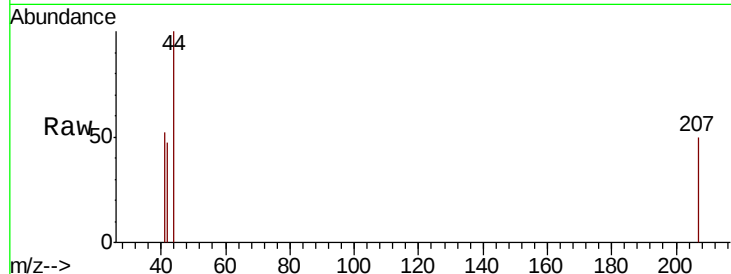




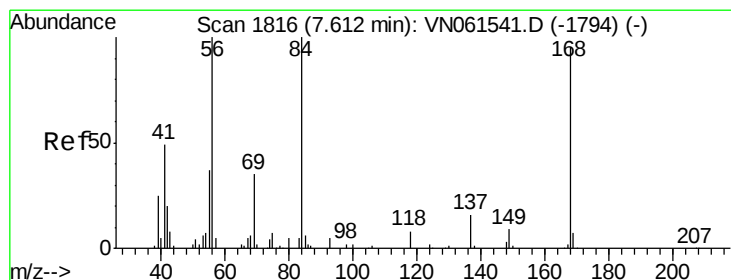
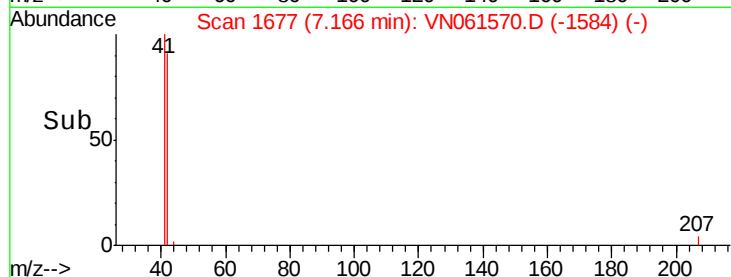
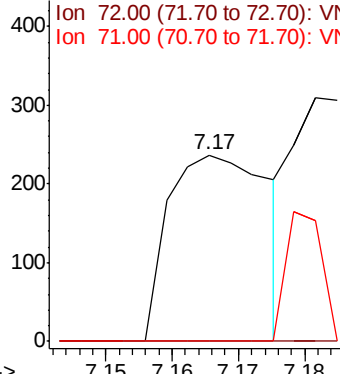
#29
Tetrahydrofuran
Concen: 0.243 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 247
Ion Ratio Lower Upper
42 100
72 0.0 43.6 65.4#
71 0.0 41.2 61.8#

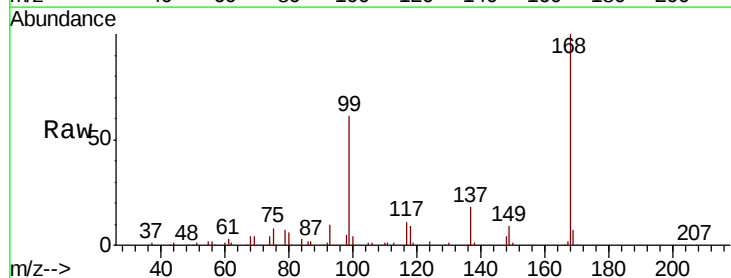


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

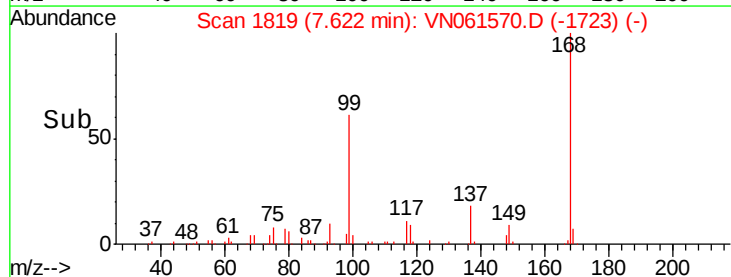
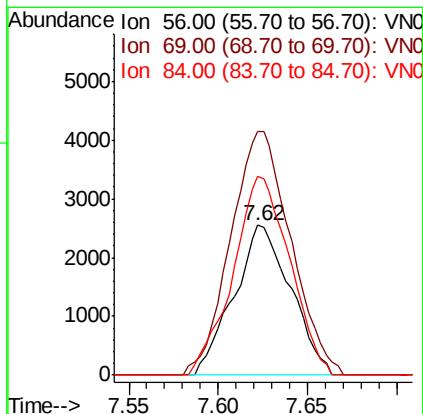


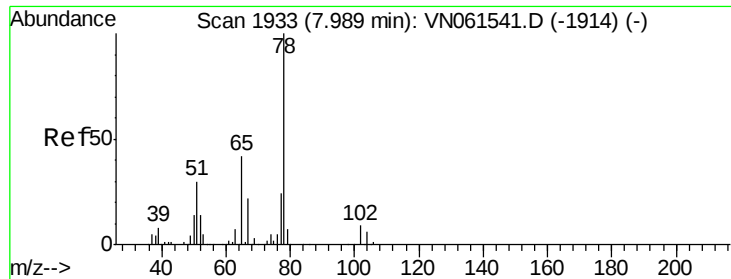
#31
Cyclohexane
Concen: 1.237 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

Tgt Ion: 56 Resp: 5668
Ion Ratio Lower Upper
56 100
69 156.5 27.8 41.8#
84 132.6 79.9 119.9#



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: 54.451 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :

MSVOA_N

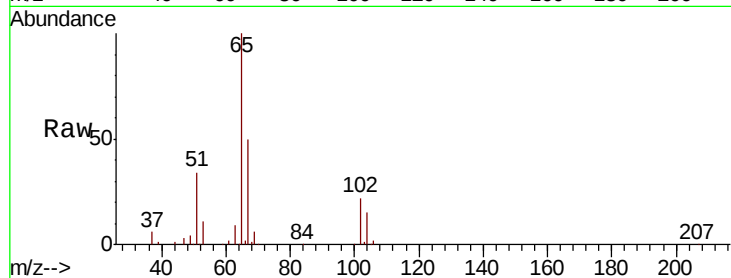
ClientSampleId :

Tot Ion: 65 Resp: 177067

Ion Ratio Lower Upper

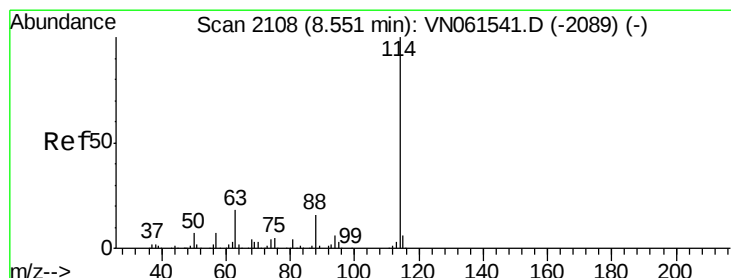
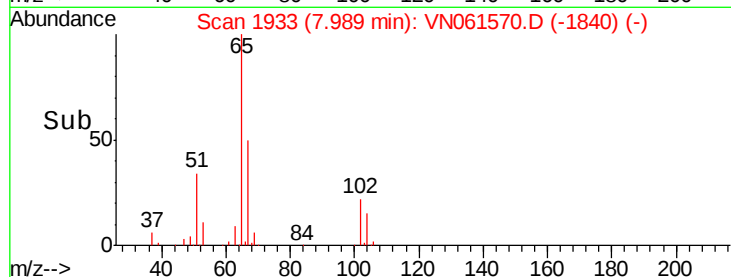
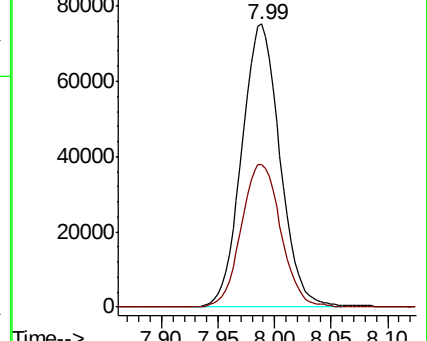
65 100

67 52.2 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061570.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061570.D (-1840) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

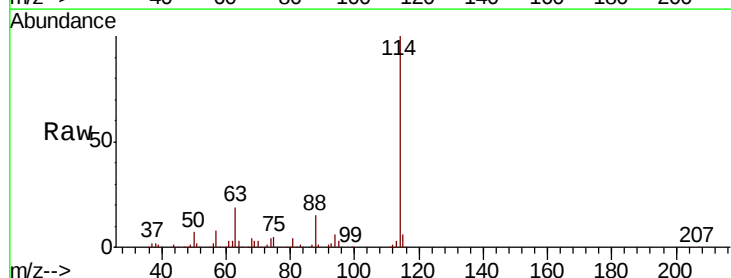
Tgt Ion: 114 Resp: 495228

Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.8

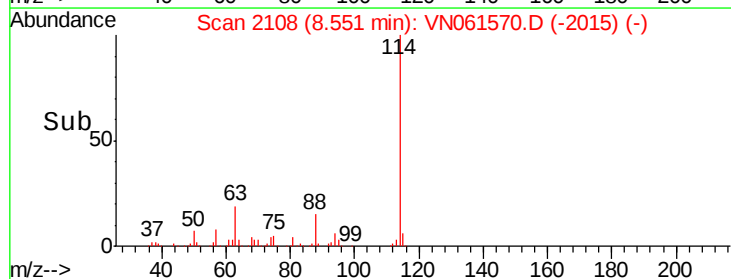
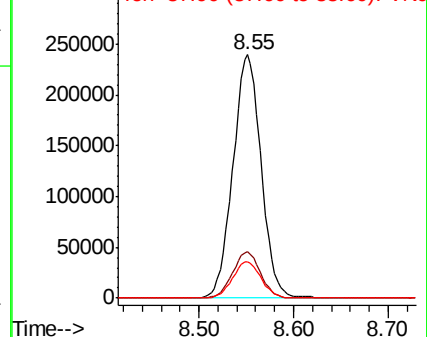
88 14.9 0.0 31.0

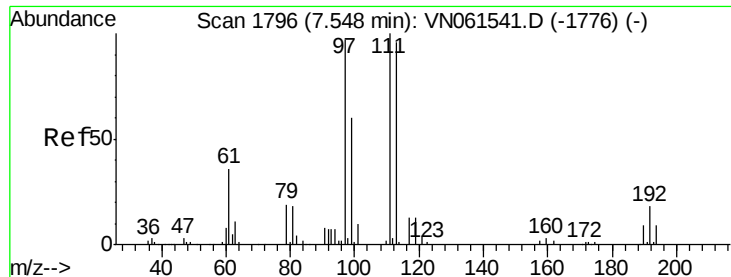


Abundance Ion 113.90 (113.60 to 114.60): VN061570.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN061570.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN061570.D (-2015) (-)





#35

Dibromofluoromethane

Concen: 52.002 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :

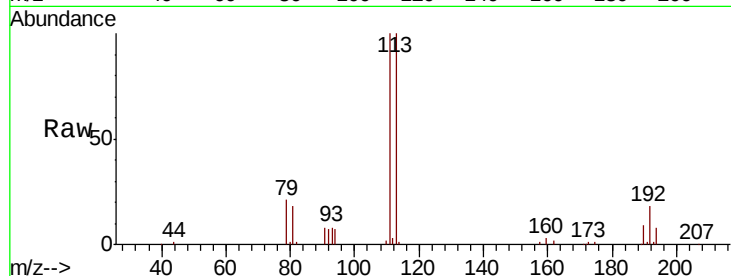
Tot Ion:113 Resp: 130640

Ion Ratio Lower Upper

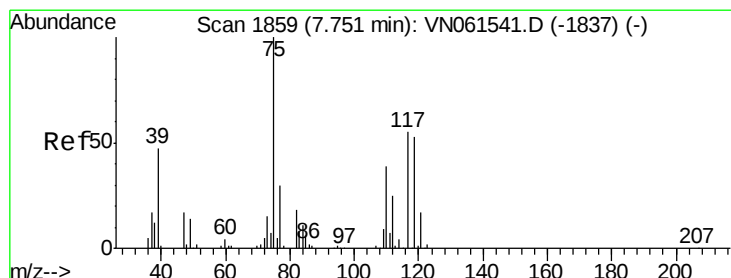
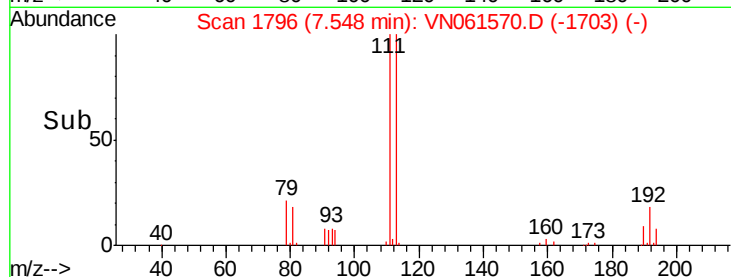
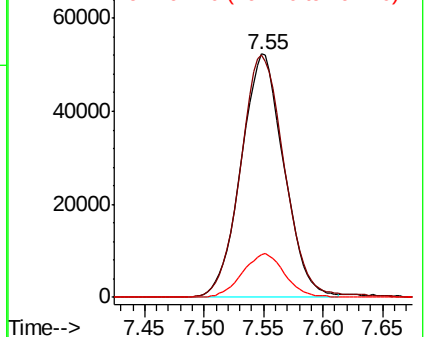
113 100

111 102.6 83.4 125.0

192 17.7 15.4 23.2



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: 4.826 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

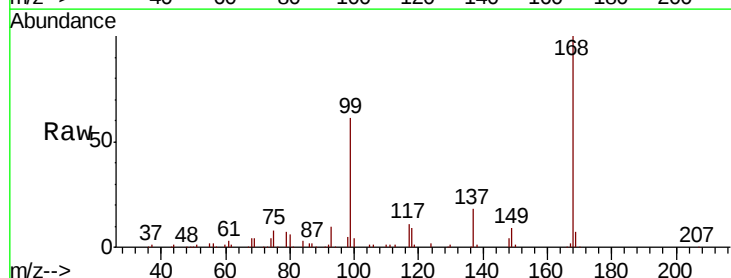
Tgt Ion: 75 Resp: 21159

Ion Ratio Lower Upper

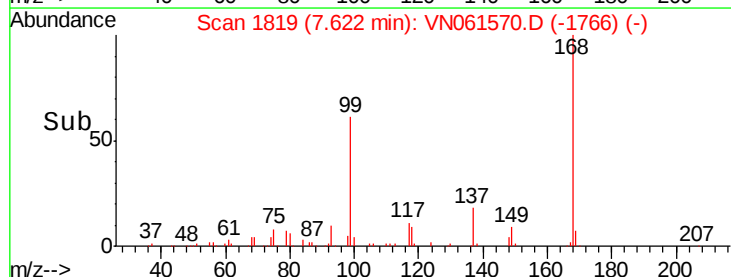
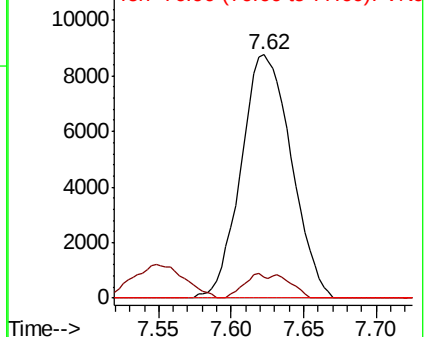
75 100

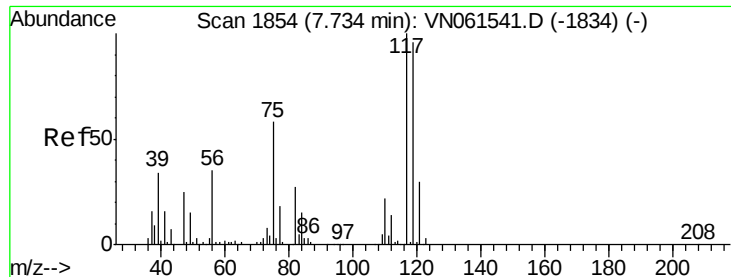
110 4.7 19.5 58.5#

77 0.0 24.7 37.1#



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





#38

Carbon Tetrachloride

Concen: 6.898 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

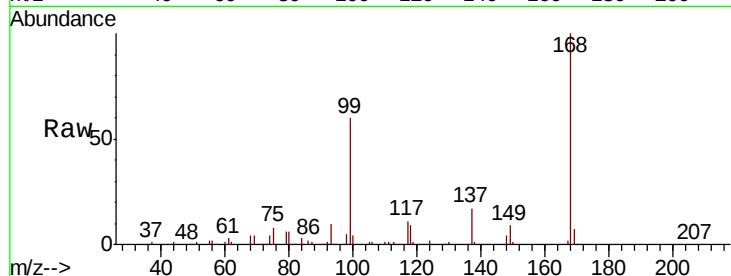
Tot Ion:117 Resp: 29171

Ion Ratio Lower Upper

117 100

119 4.8 76.5 114.7#

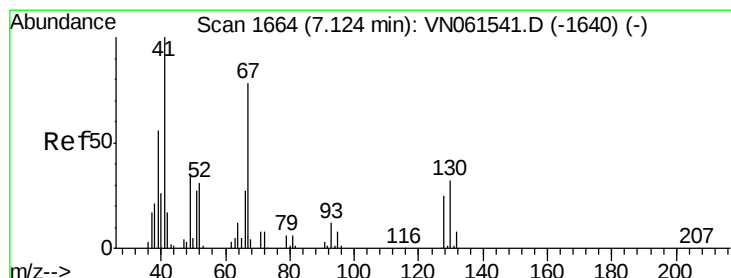
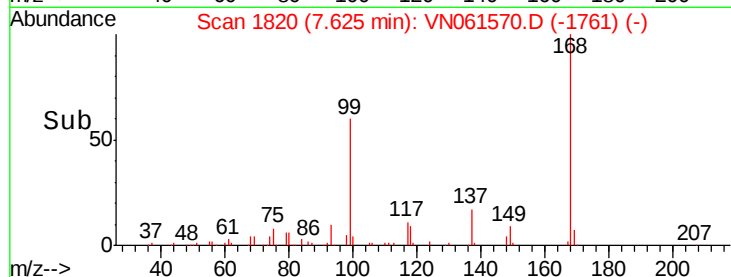
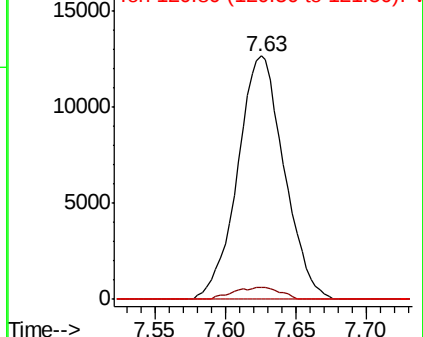
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.206 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. 0.04 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Tgt Ion: 41 Resp: 333

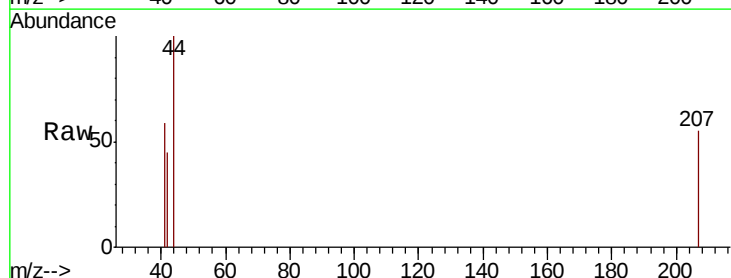
Ion Ratio Lower Upper

41 100

39 18.3 53.8 80.6#

67 0.0 91.1 136.7#

52 0.0 36.0 54.0#

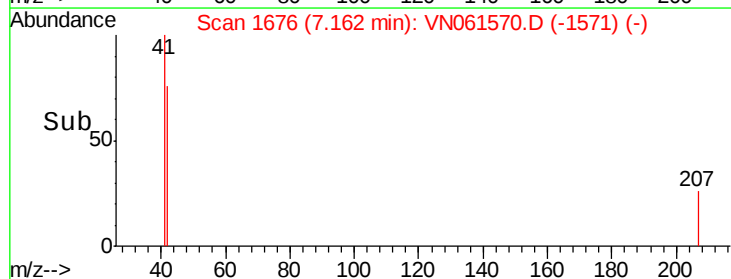
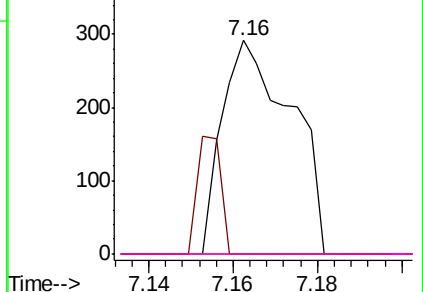


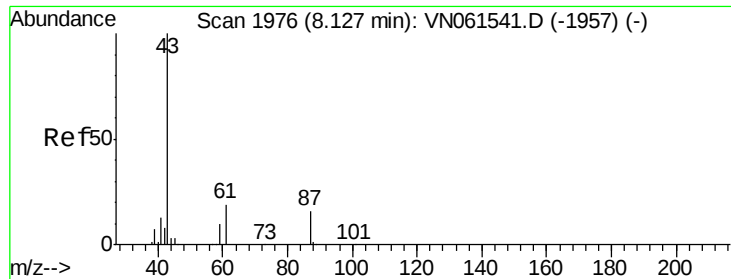
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

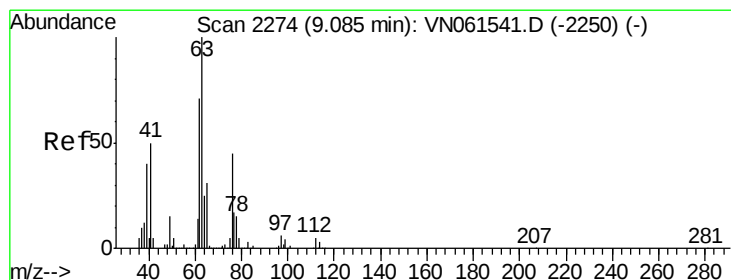
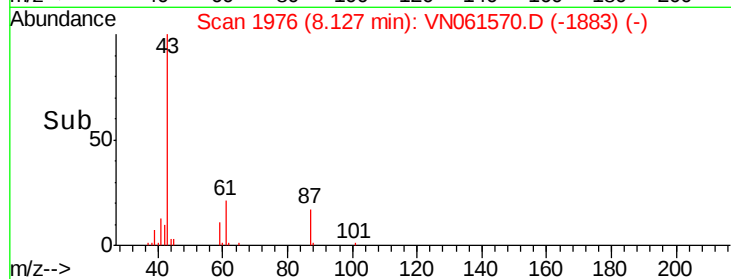
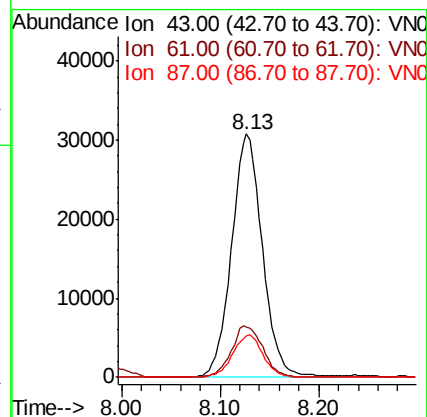
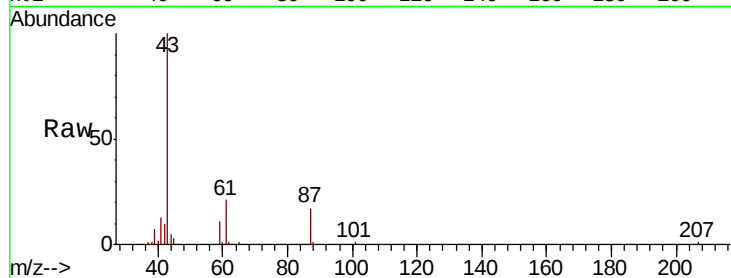




#43
Isopropyl Acetate
Concen: 10.589 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

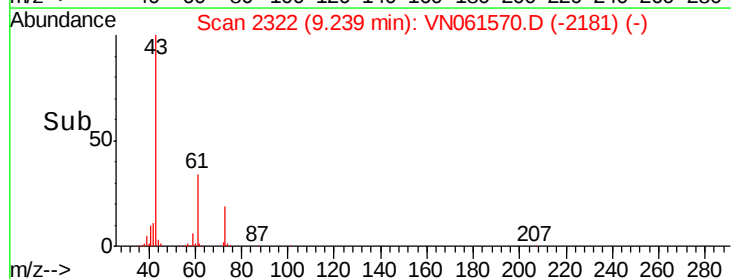
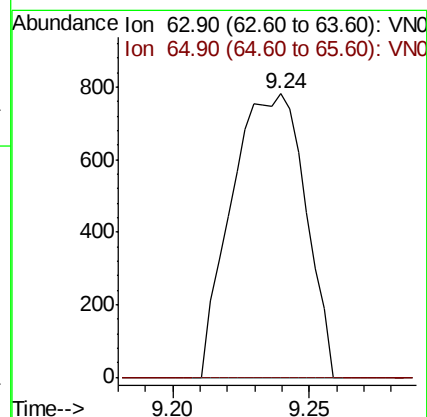
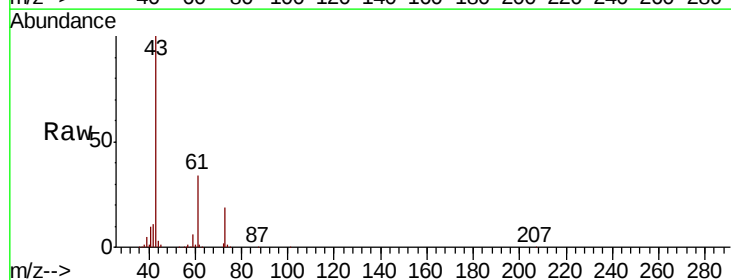
Instrument :
MSVOA_N
ClientSampleId :

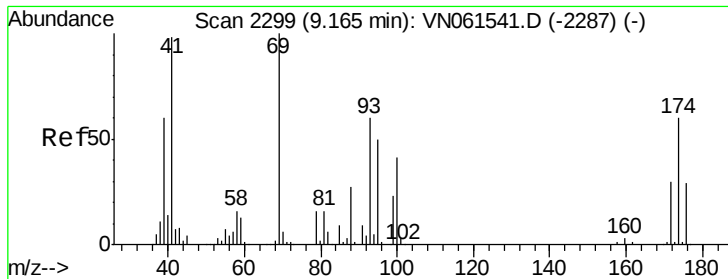
Tot Ion: 43 Resp: 67269
Ion Ratio Lower Upper
43 100
61 21.4 23.6 35.4#
87 17.1 13.0 19.6



#45
1,2-Dichloropropane
Concen: 0.455 ug/l
RT: 9.24 min Scan# 2322
Delta R.T. 0.15 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

Tgt Ion: 63 Resp: 1461
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

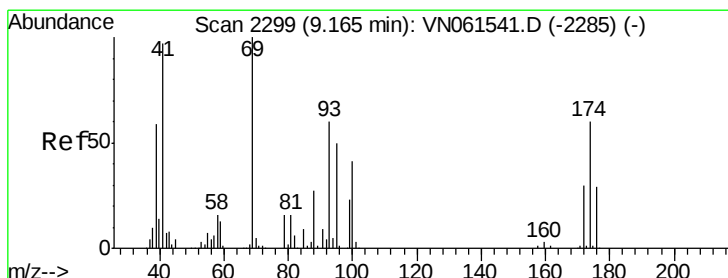
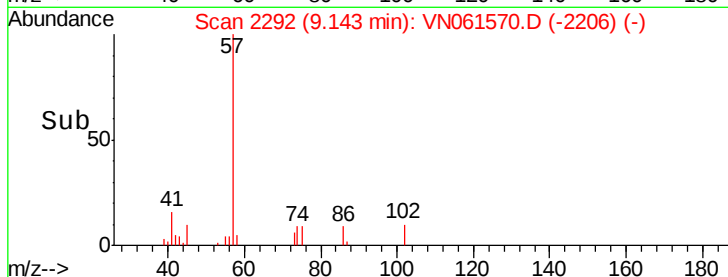
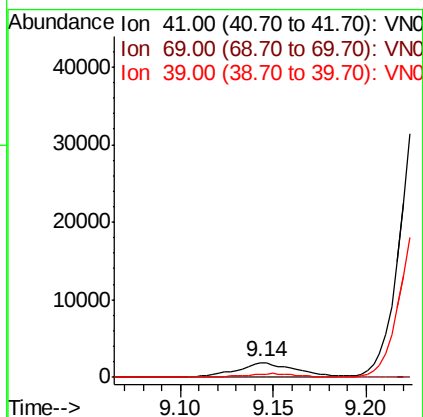
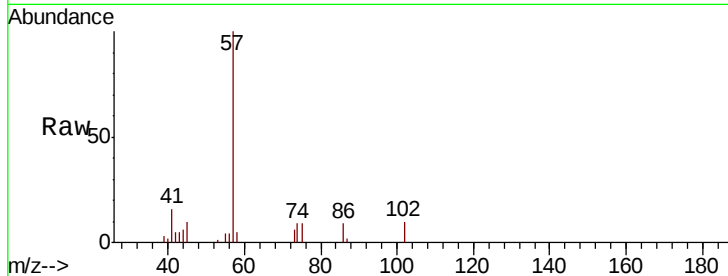




#48
Methvl methacrylate
Concen: 1.440 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

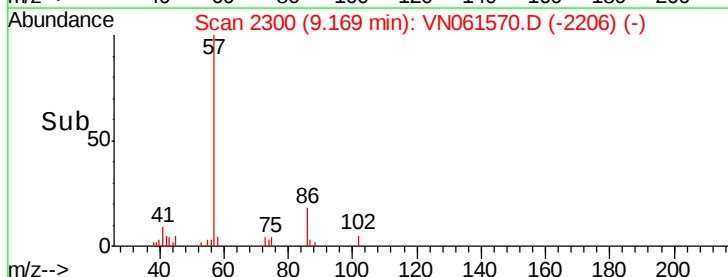
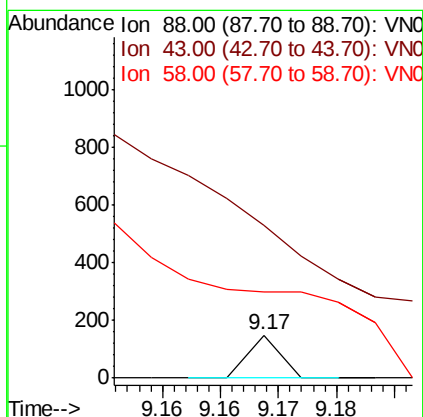
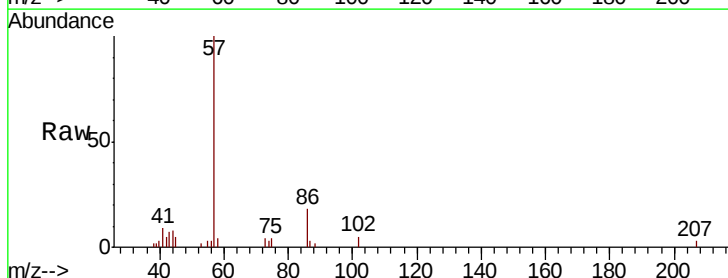
Instrument :
MSVOA_N
ClientSampled :

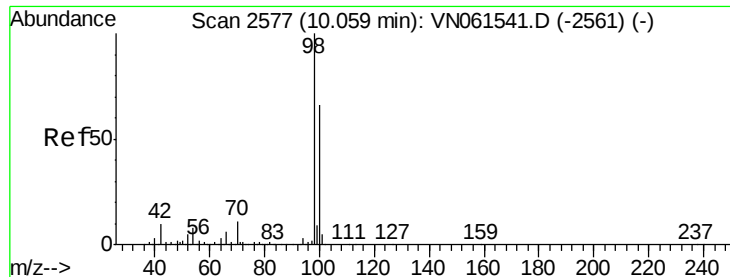
Tot Ion: 41 Resp: 4115
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#49
1,4-Dioxane
Concen: 0.655 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN061570.D
Acq: 29 May 2020 16:22

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 23.1 34.7#
58 5041.4 48.3 72.5#





#50

Toluene-d8

Concen: 53.548 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :

MSVOA_N

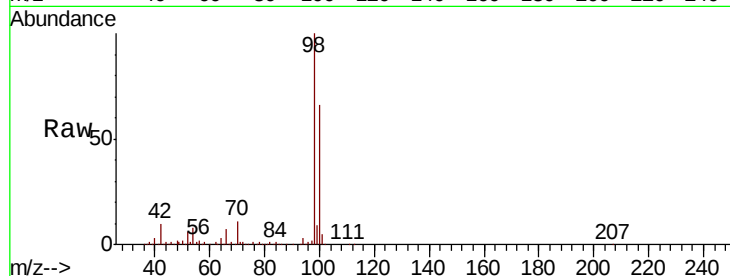
ClientSampled :

Tot Ion: 98 Resp: 623395

Ion Ratio Lower Upper

98 100

100 65.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061570.D (-2484) (-)

10.06

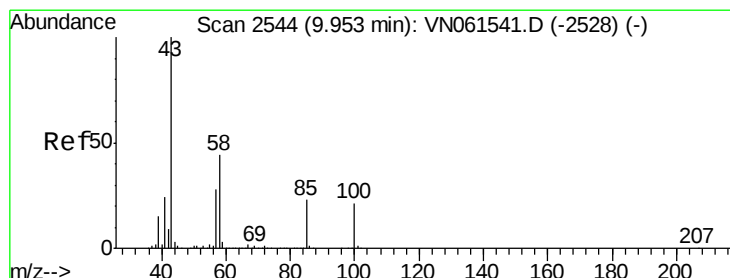
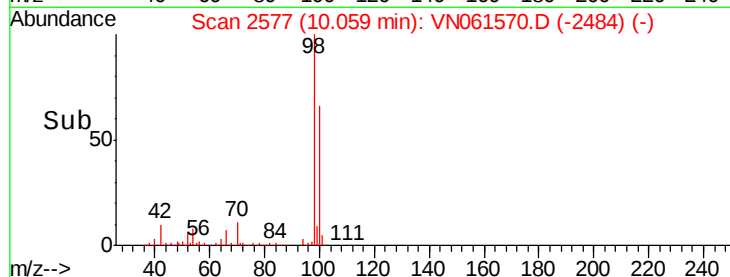
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.854 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061570.D

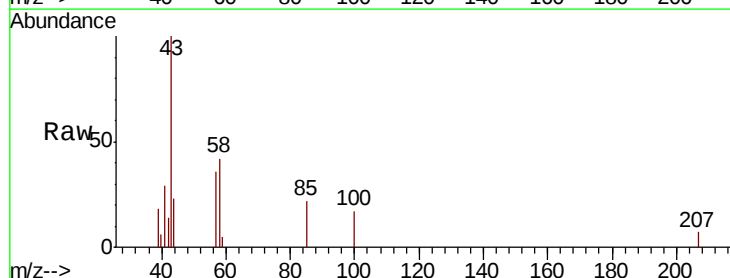
Acq: 29 May 2020 16:22

Tgt Ion: 43 Resp: 6639

Ion Ratio Lower Upper

43 100

58 37.6 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN061570.D (-2451) (-)

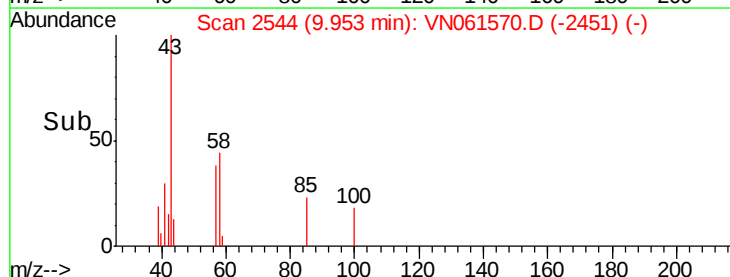
15000

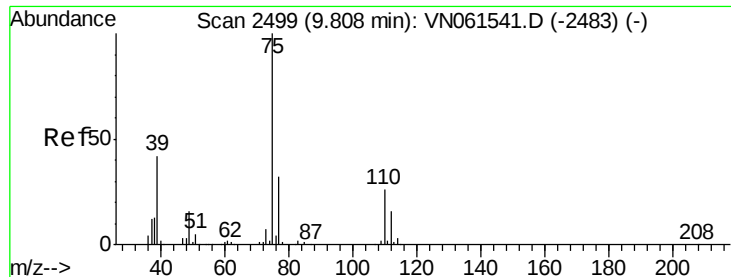
10000

5000

0

Time-->



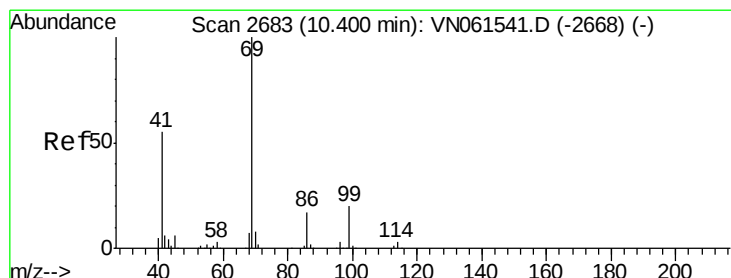
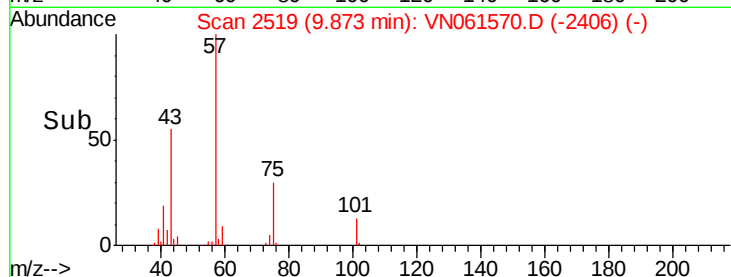
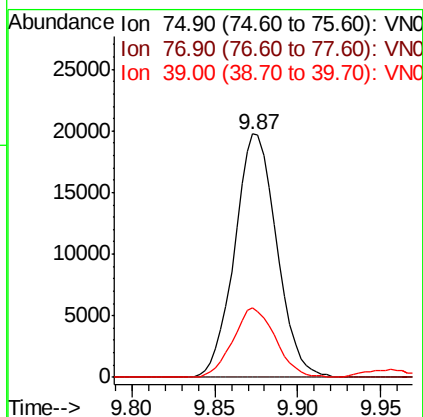
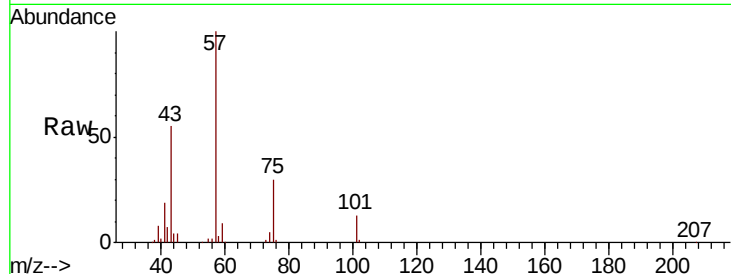


#54

cis-1,3-Dichloropropene
 Concen: 6.167 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061570.D
 Acq: 29 May 2020 16:22

Instrument :
 MSVOA_N
 ClientSampled :

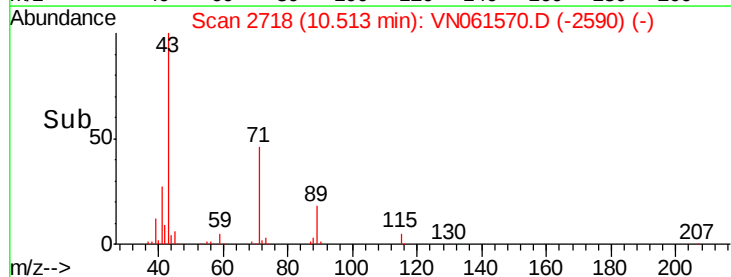
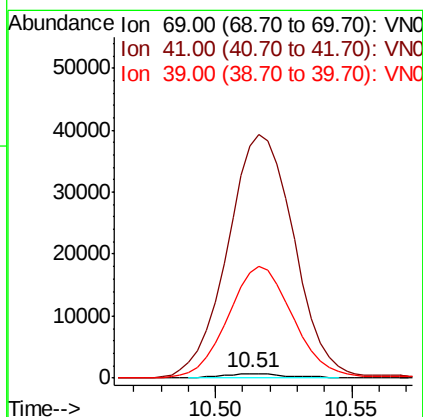
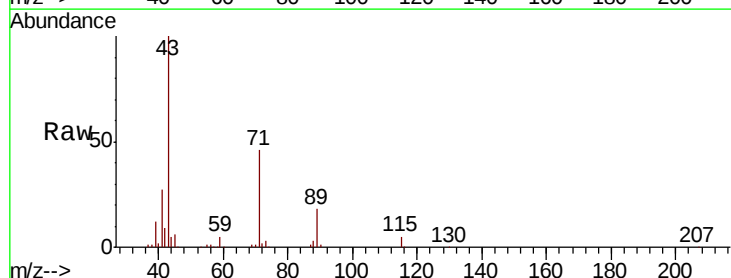
Tot Ion	75	Resp	34862
Ion Ratio	Lower	Upper	
75	100		
77	0.0	25.4	38.2#
39	28.7	33.8	50.6#

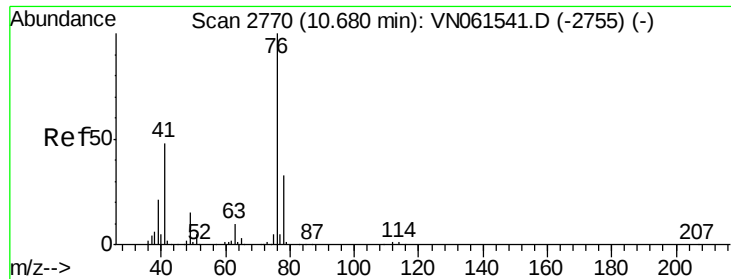


#56

Ethyl methacrylate
 Concen: 0.223 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN061570.D
 Acq: 29 May 2020 16:22

Tgt Ion	69	Resp	1094
Ion Ratio	Lower	Upper	
69	100		
41	6134.6	43.5	65.3#
39	2757.3	27.0	40.6#





#57

1,3-Dichloropropane

Concen: 1.166 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :

MSVOA_N

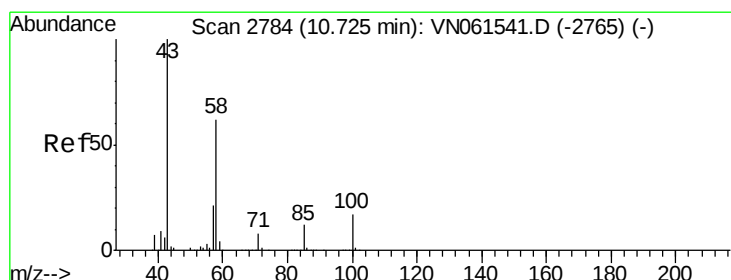
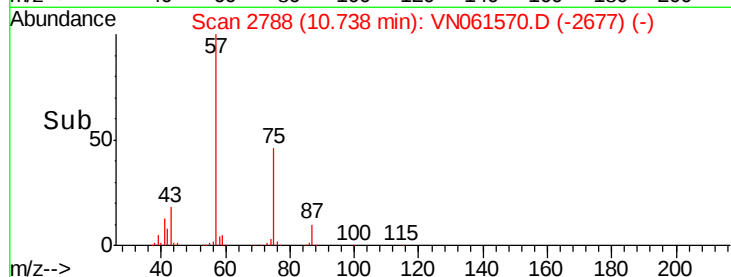
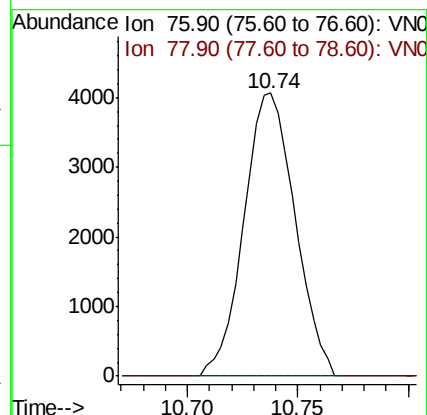
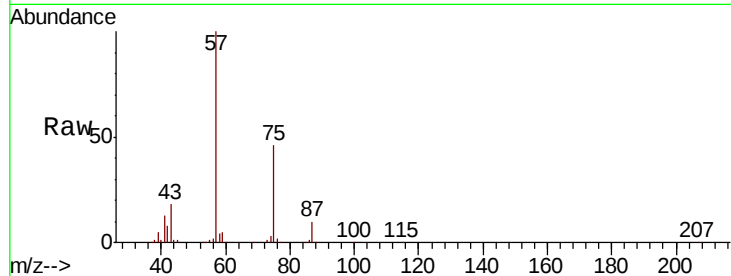
ClientSampled :

Tot Ion: 76 Resp: 6558

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 26.868 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN061570.D

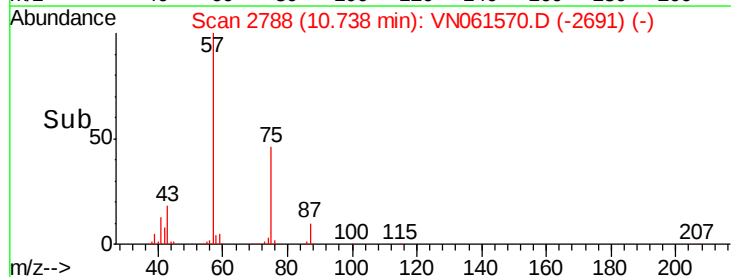
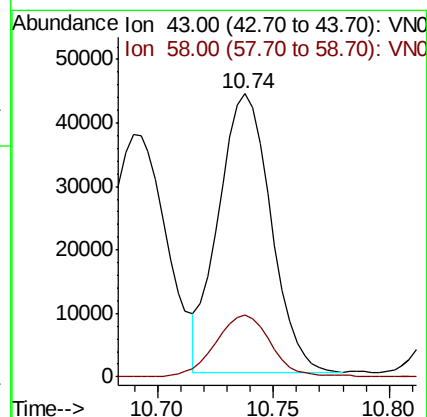
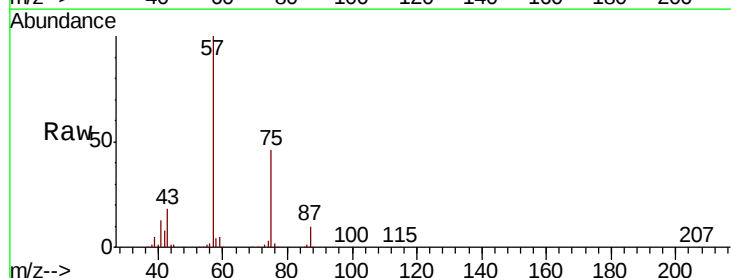
Acq: 29 May 2020 16:22

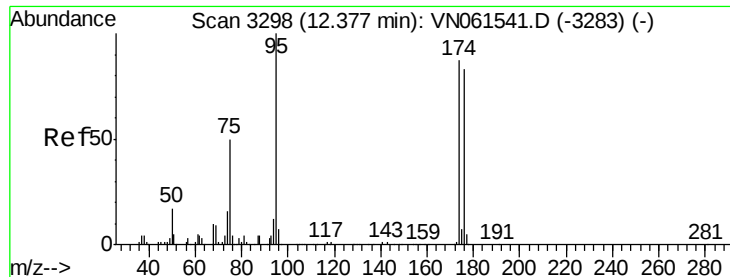
Tgt Ion: 43 Resp: 69079

Ion Ratio Lower Upper

43 100

58 23.4 30.7 92.1#





#62

4-Bromofluorobenzene

Concen: 55.023 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

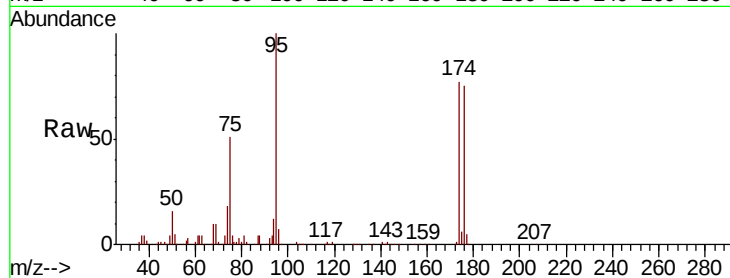
Tot Ion: 95 Resp: 233701

Ion Ratio Lower Upper

95 100

174 77.2 0.0 172.8

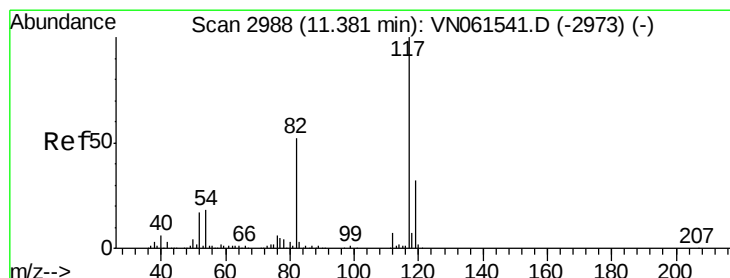
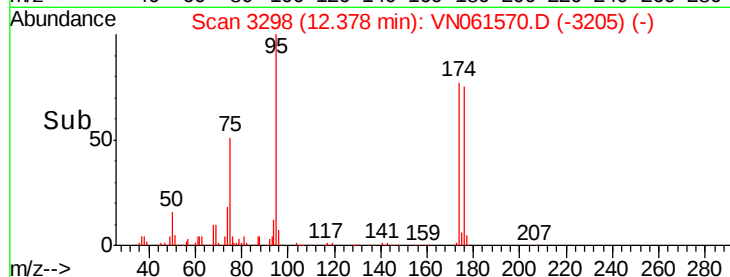
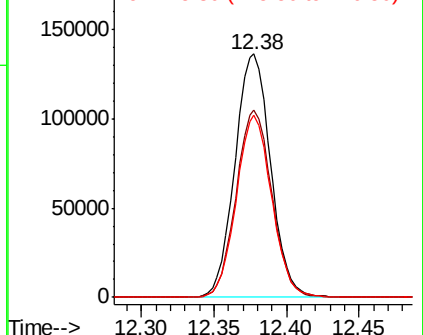
176 74.3 0.0 164.8



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: VN061570.D

Acq: 29 May 2020 16:22

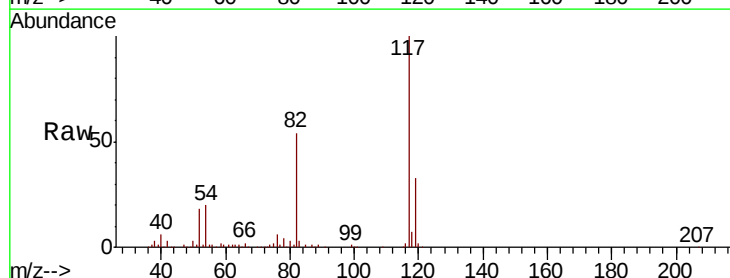
Tgt Ion: 117 Resp: 501825

Ion Ratio Lower Upper

117 100

82 53.8 41.5 62.3

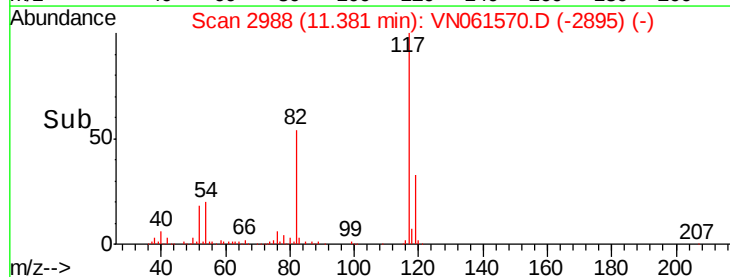
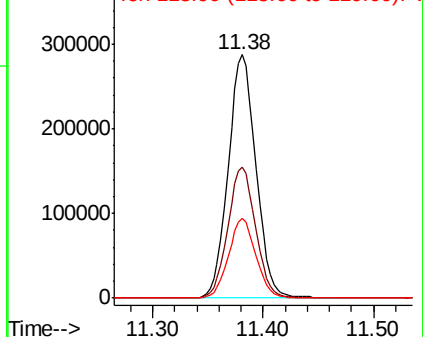
119 32.6 25.6 38.4

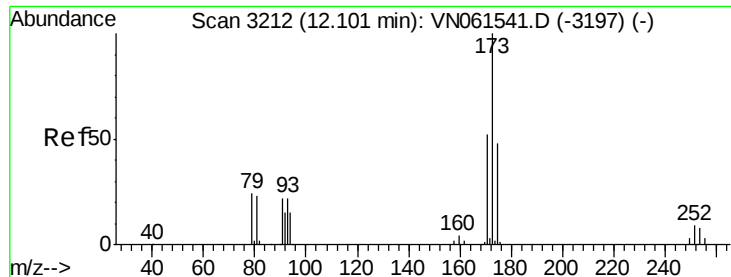


Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)

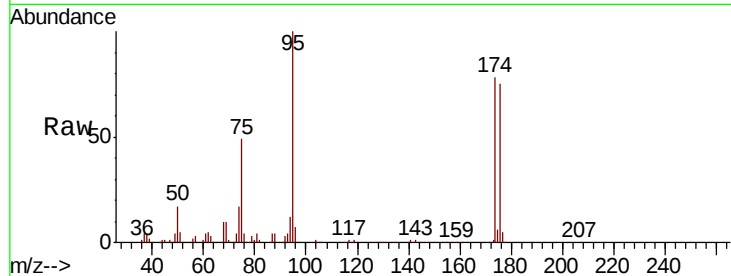




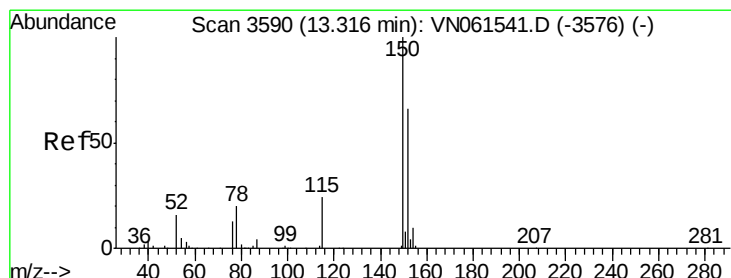
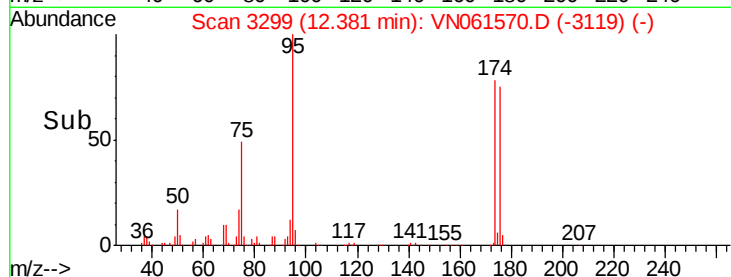
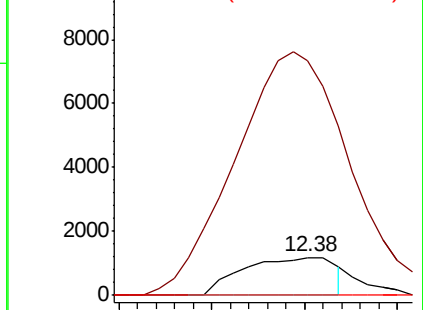
#71
 Bromoform
 Concen: 0.549 ug/l
 RT: 12.38 min Scan# 3299
 Delta R.T. 0.28 min
 Lab File: VN061570.D
 Acq: 29 May 2020 16:22

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:173 Resp: 1643
 Ion Ratio Lower Upper
 173 100
 175 670.5 24.4 73.2#
 254 0.0 0.0 0.0

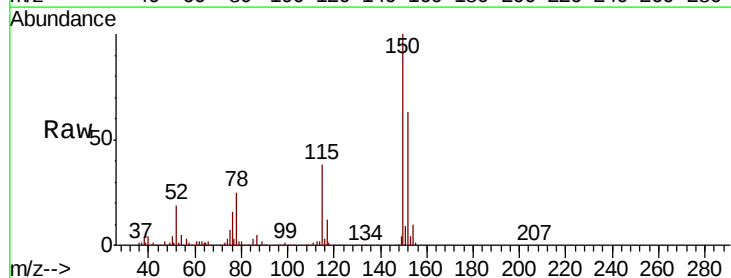


Abundance Ion 172.70 (172.40 to 173.40): V
 Ion 174.70 (174.40 to 175.40): V
 Ion 254.40 (254.10 to 255.10): V

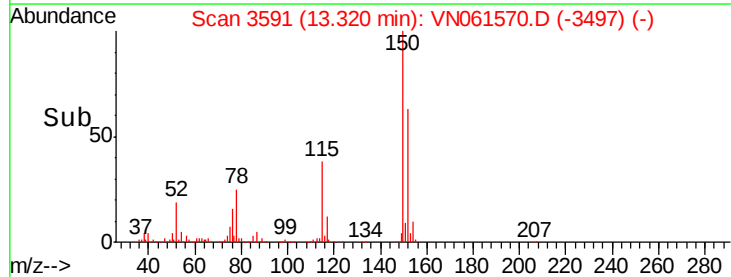
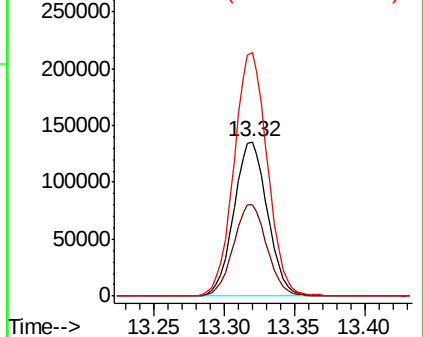


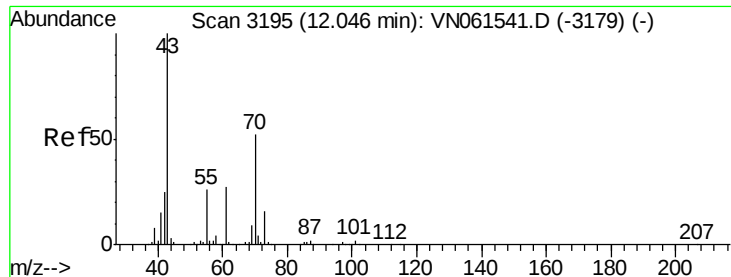
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VN061570.D
 Acq: 29 May 2020 16:22

Tgt Ion:152 Resp: 227223
 Ion Ratio Lower Upper
 152 100
 115 59.2 28.0 84.0
 150 156.8 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: 0.697 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061570.D

Acq: 29 May 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3642

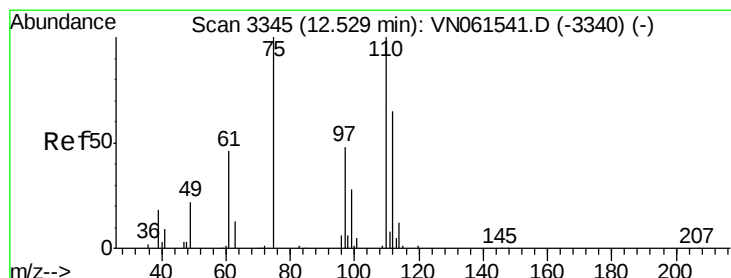
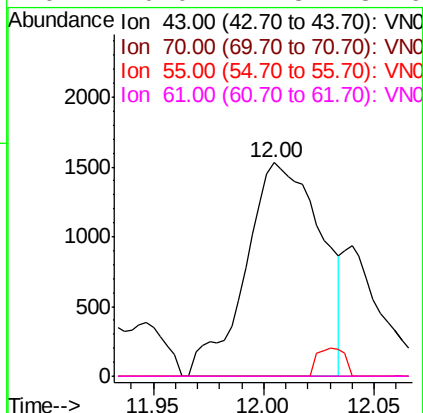
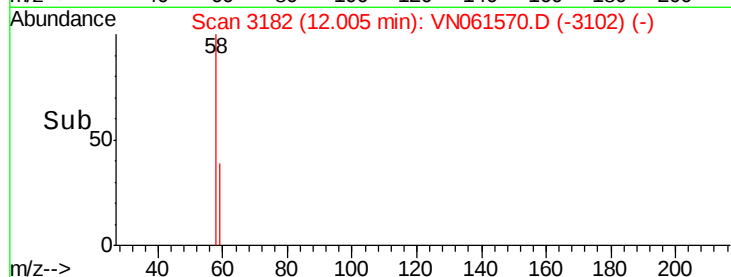
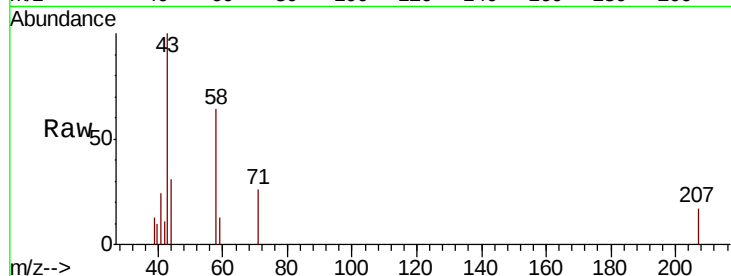
Ion Ratio Lower Upper

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: 28.484 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061570.D

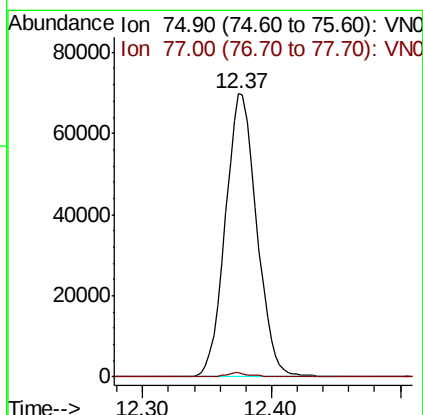
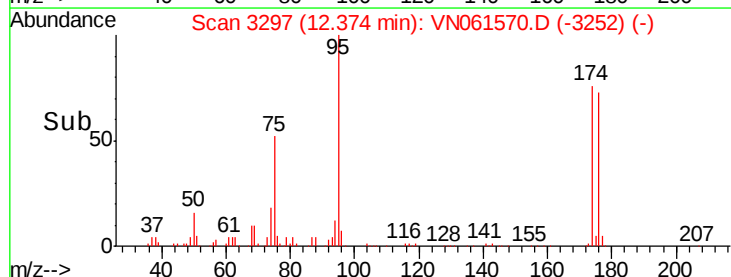
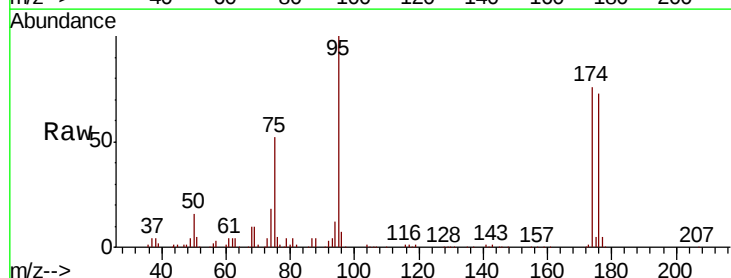
Acq: 29 May 2020 16:22

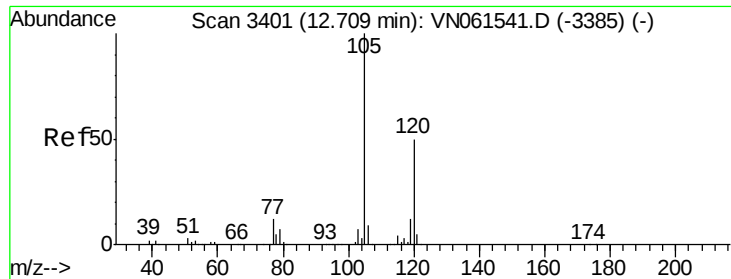
Tgt Ion: 75 Resp: 117692

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

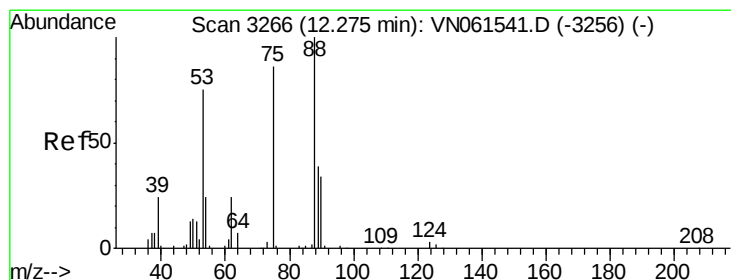
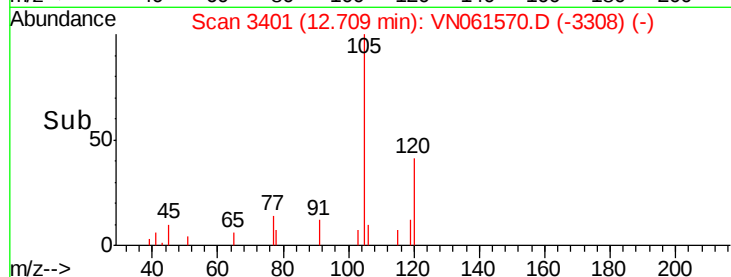
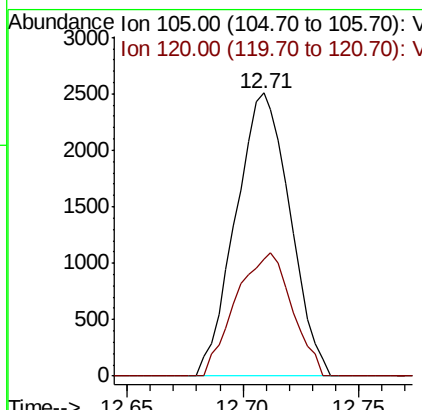
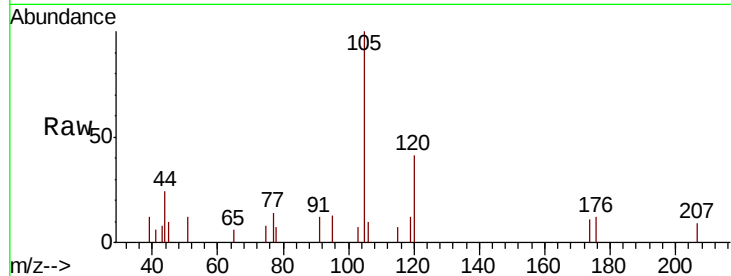




#80
 1,3,5-Trimethylbenzene
 Concen: 0.294 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN061570.D
 Acq: 29 May 2020 16:22

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:105 Resp: 4082
 Ion Ratio Lower Upper
 105 100
 120 45.1 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.842 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. 0.10 min
 Lab File: VN061570.D
 Acq: 29 May 2020 16:22

Tgt Ion: 75 Resp: 117692
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

