

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060220\
 Data File : VN061617.D
 Acq On : 2 Jun 2020 13:48
 Operator : JC/MD
 Sample : L2800-03DL 4X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 03 00:46:50 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

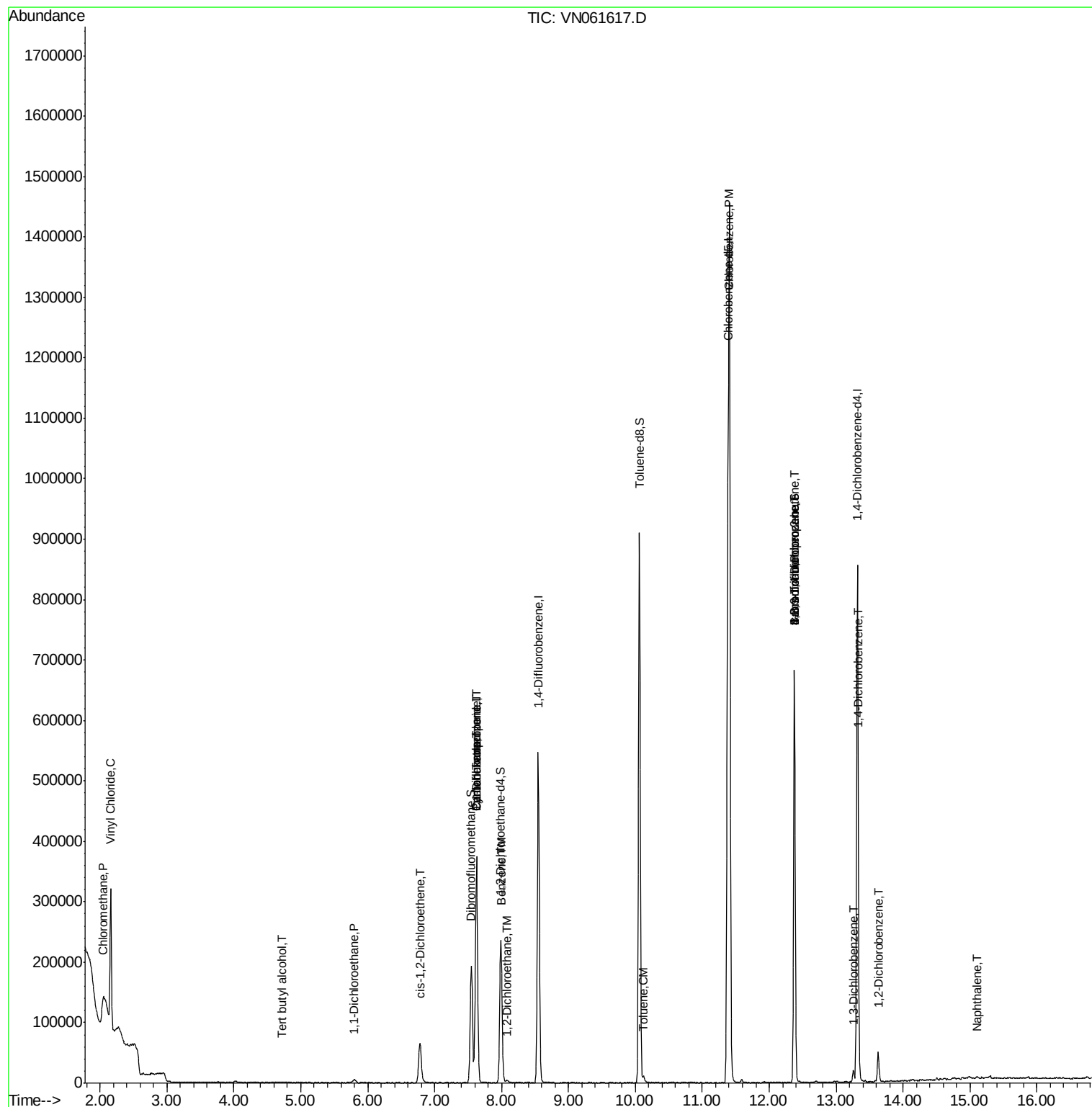
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	306098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	532095	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	528848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	239363	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	180856	49.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.18%	
35) Dibromofluoromethane	7.55	113	150915	55.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.82%	
50) Toluene-d8	10.06	98	644229	51.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.00%	
62) 4-Bromofluorobenzene	12.37	95	248503	54.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.90%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1050	0.281	ug/l	97
4) Vinyl Chloride	2.16	62	200777	39.244	ug/l	99
11) Tert butyl alcohol	4.72	59	129	0.266	ug/l #	72
16) Acetone	3.77	43	2135	Below Cal	#	74
20) Methylene Chloride	4.50	84	134	Below Cal	#	64
24) 1,1-Dichloroethane	5.80	63	8819	1.543	ug/l #	91
27) cis-1,2-Dichloroethene	6.78	96	45087	11.288	ug/l	90
31) Cyclohexane	7.63	56	6256	1.217	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	22116	4.695	ug/l #	48
38) Carbon Tetrachloride	7.63	117	30242	6.656	ug/l #	16
40) Benzene	8.00	78	46192	3.178	ug/l	97
42) 1,2-Dichloroethane	8.08	62	2904	0.597	ug/l	87
52) Toluene	10.13	92	3963	0.418	ug/l	95
65) Chlorobenzene	11.41	112	816132	74.242	ug/l	100
71) Bromoform	12.38	173	1958	0.621	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	119110	27.366	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	119110	69.981	ug/l #	15
87) 1,3-Dichlorobenzene	13.26	146	8706	1.102	ug/l	100
88) 1,4-Dichlorobenzene	13.34	146	19043	2.367	ug/l	81
91) 1,2-Dichlorobenzene	13.62	146	21674	2.872	ug/l	95
95) Naphthalene	15.11	128	3713	0.276	ug/l #	92

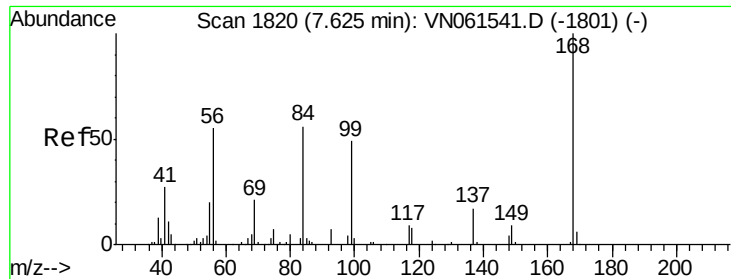
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061617.D

Acq: 2 Jun 2020 13:48

Instrument :

MSVOA_N

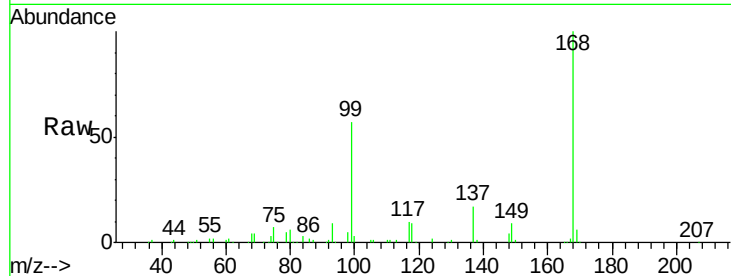
ClientSampled :

Tot Ion:168 Resp: 306098

Ion Ratio Lower Upper

168 100

99 57.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

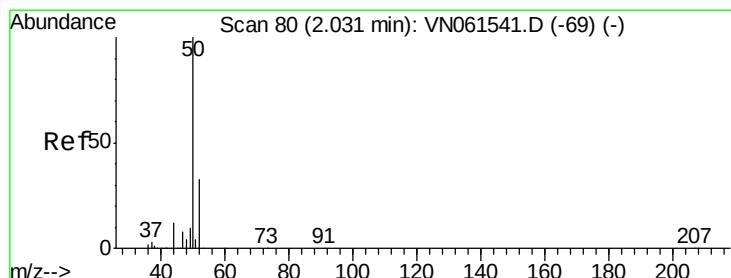
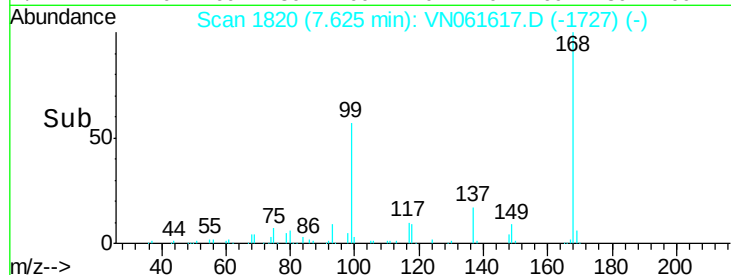
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.281 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061617.D

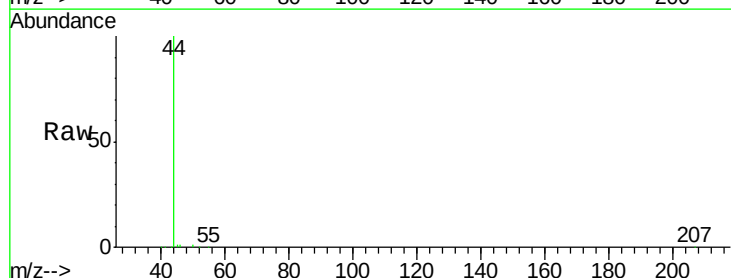
Acq: 2 Jun 2020 13:48

Tgt Ion: 50 Resp: 1050

Ion Ratio Lower Upper

50 100

52 31.5 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

800

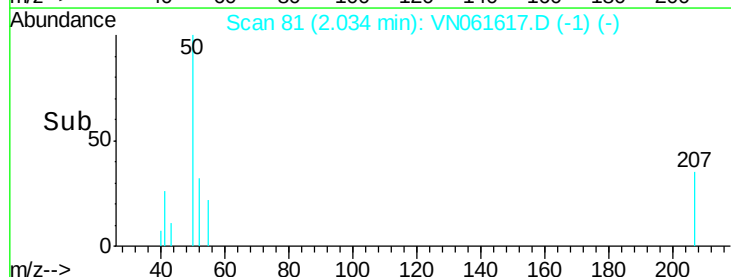
600

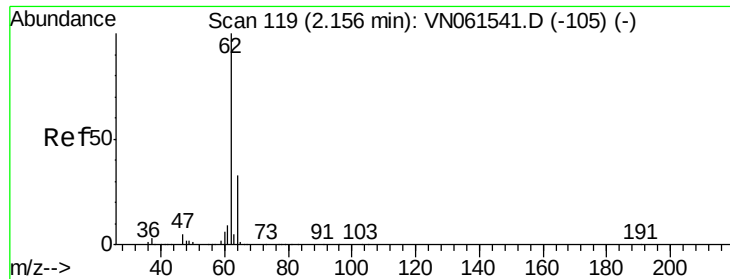
400

200

0

Time--> 2.00 2.02 2.04 2.06





#4

Vinyl Chloride

Concen: 39.244 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

Instrument :

MSVOA_N

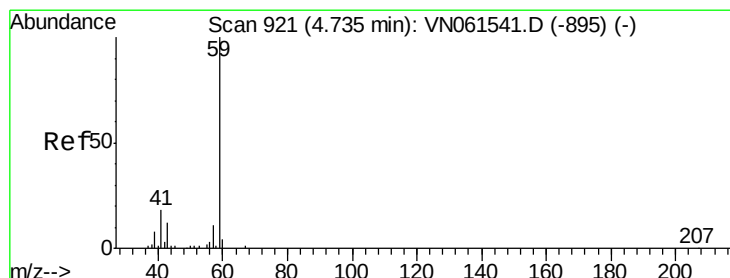
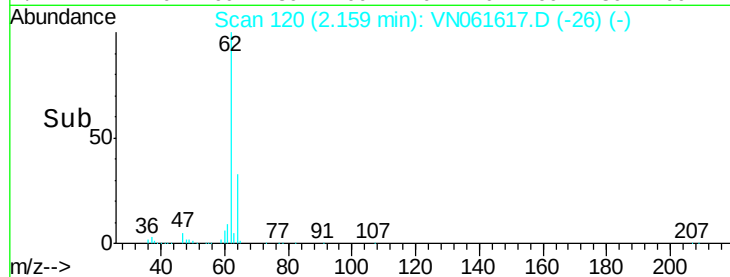
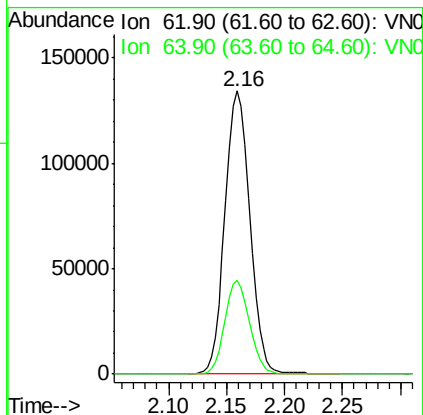
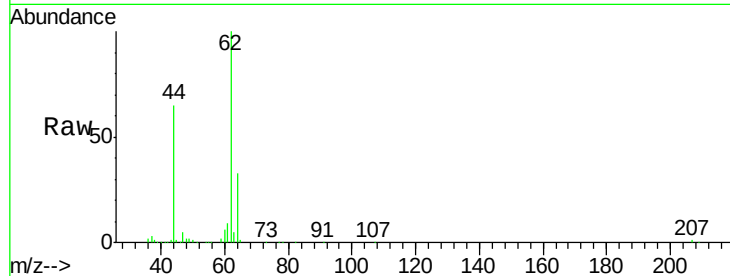
ClientSampled :

Tot Ion: 62 Resp: 200777

Ion Ratio Lower Upper

62 100

64 33.1 26.2 39.2



#11

Tert butyl alcohol

Concen: 0.266 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.02 min

Lab File: VN061617.D

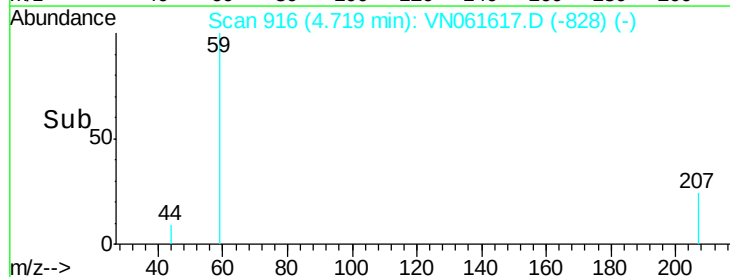
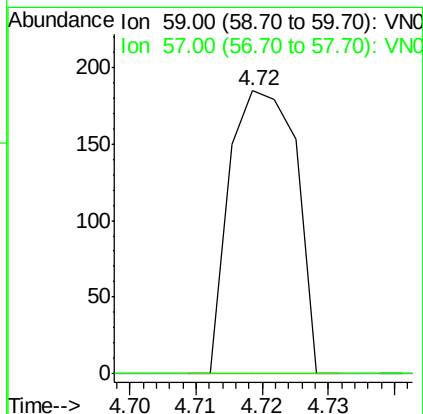
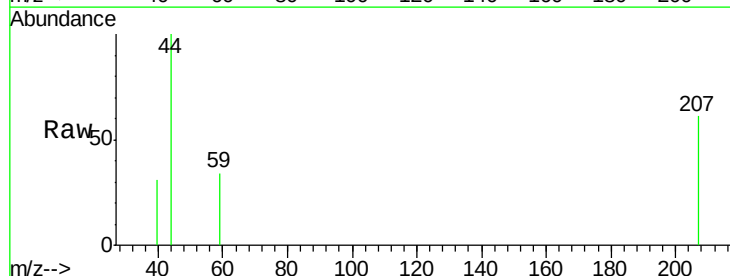
Acq: 2 Jun 2020 13:48

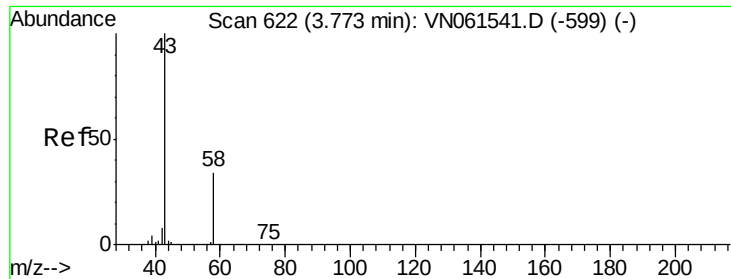
Tgt Ion: 59 Resp: 129

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#16

Acetone

Concen: Below Cal

RT: 3.77 min Scan# 622

Delta R.T. 0.00 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

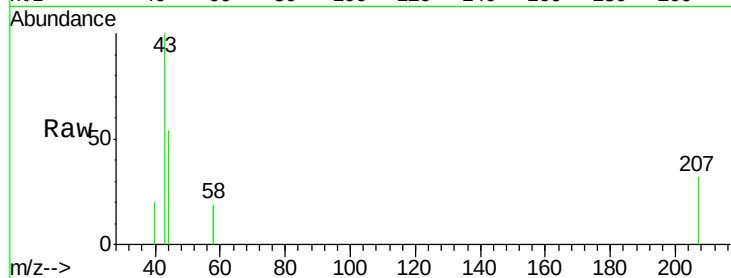
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2135

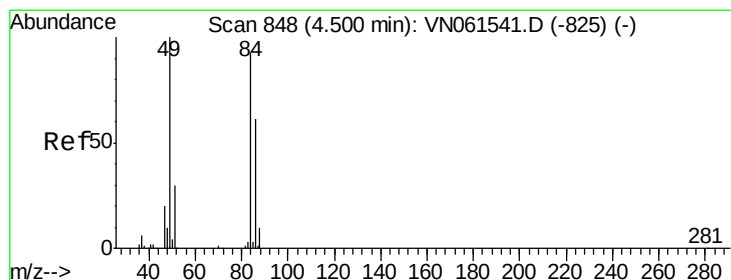
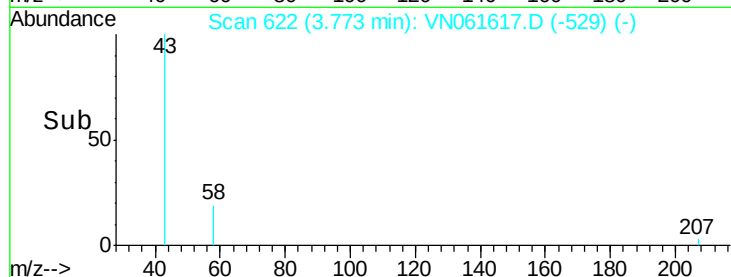
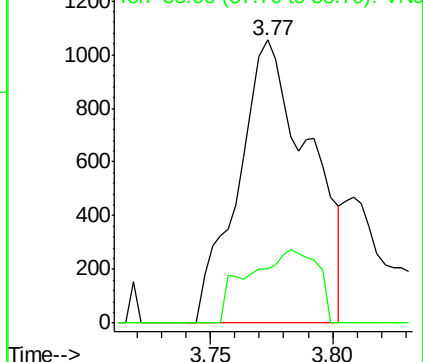
Ion Ratio Lower Upper

43 100

58 19.2 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 847

Delta R.T. -0.00 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

Tgt Ion: 84 Resp: 134

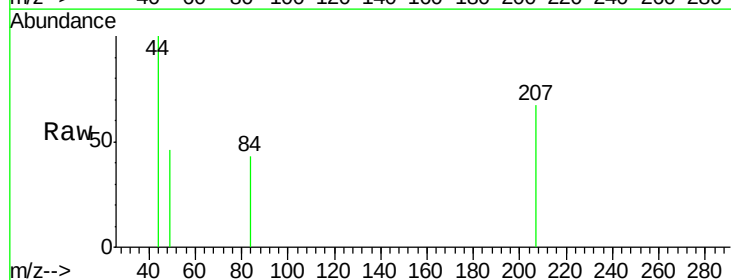
Ion Ratio Lower Upper

84 100

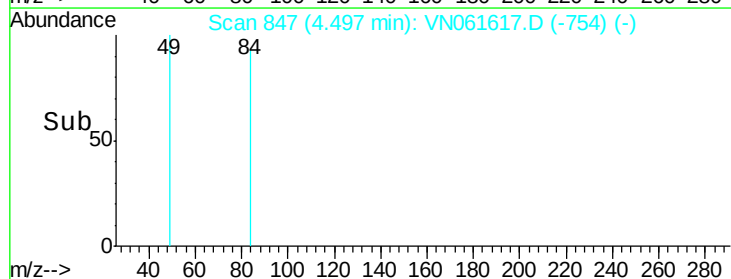
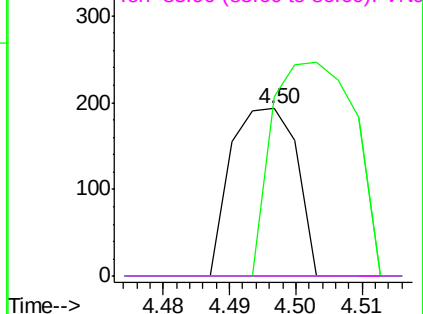
49 107.3 85.8 128.8

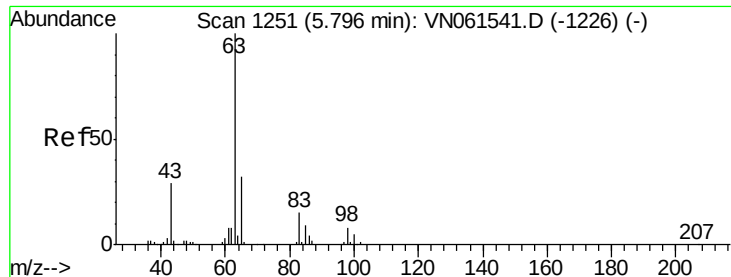
51 0.0 26.2 39.2#

86 0.0 52.6 78.8#



Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

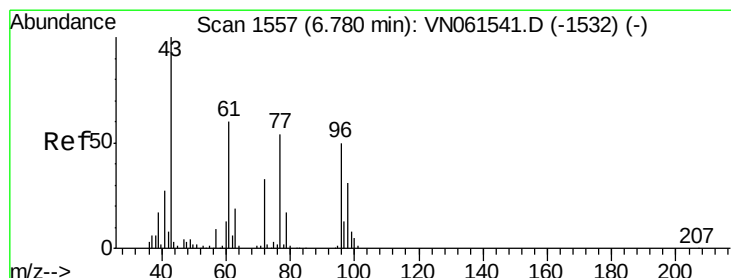
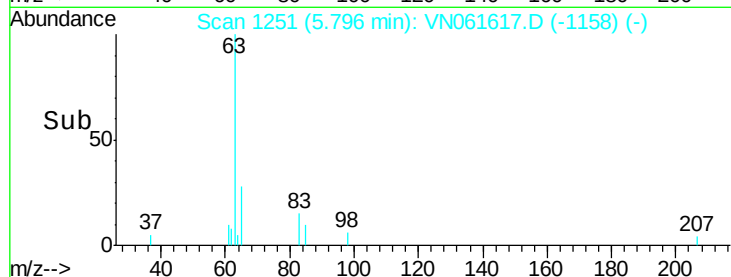
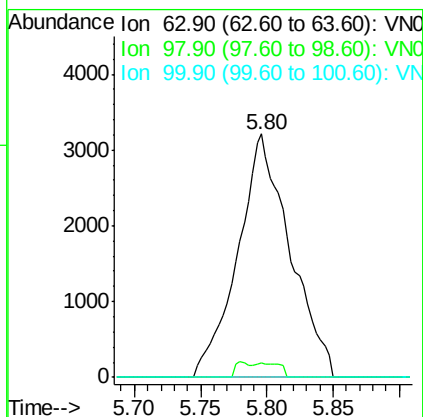
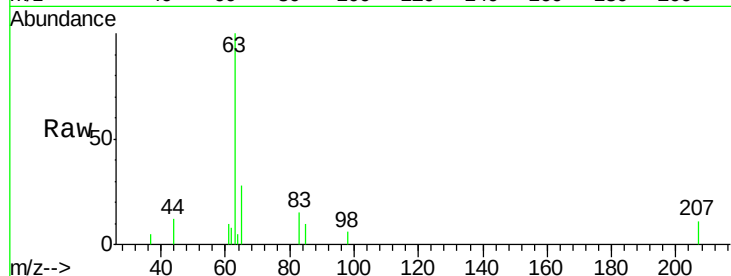




#24
 1,1-Dichloroethane
 Concen: 1.543 ug/l
 RT: 5.80 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VN061617.D
 Acq: 2 Jun 2020 13:48

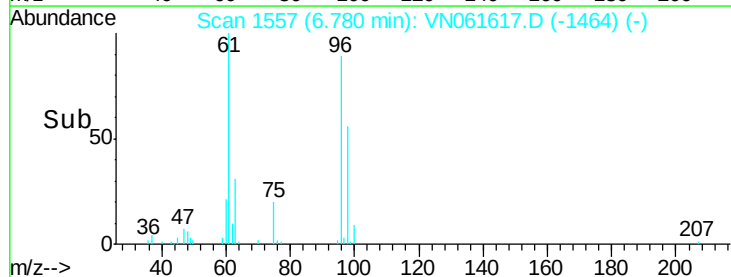
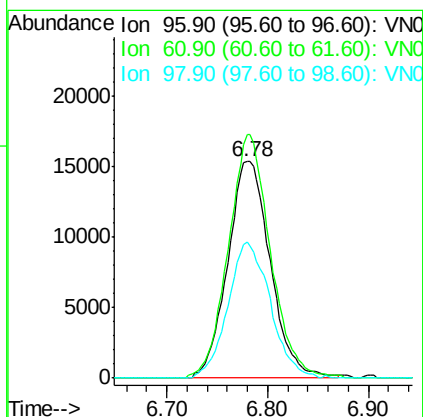
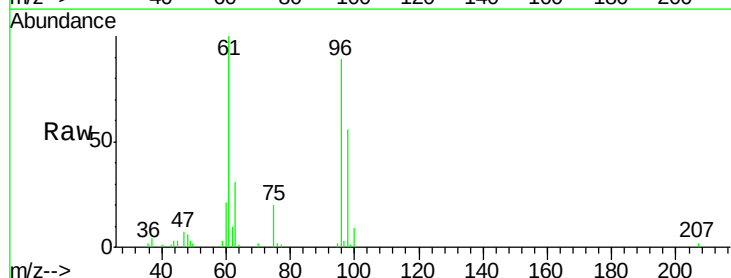
Instrument :
 MSVOA_N
 ClientSampleId :

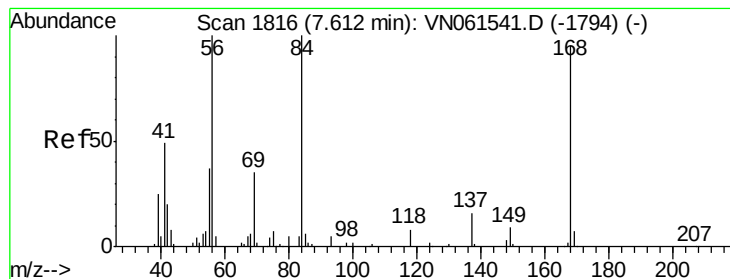
Tot Ion: 63 Resp: 8819
 Ion Ratio Lower Upper
 63 100
 98 5.7 3.8 11.4
 100 0.0 2.5 7.6#



#27
 cis-1,2-Dichloroethene
 Concen: 11.288 ug/l
 RT: 6.78 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: VN061617.D
 Acq: 2 Jun 2020 13:48

Tgt Ion: 96 Resp: 45087
 Ion Ratio Lower Upper
 96 100
 61 110.8 0.0 252.2
 98 62.2 0.0 129.2





#31

Cyclohexane

Concen: 1.217 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

Instrument :

MSVOA_N

ClientSampled :

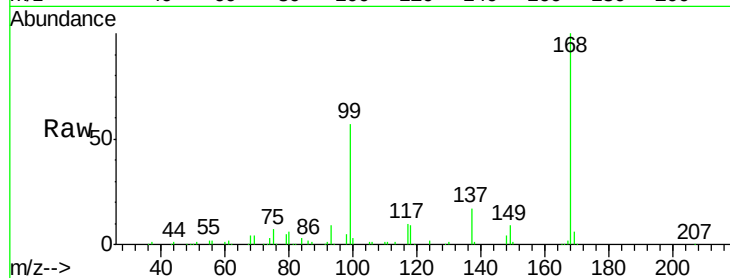
Tot Ion: 56 Resp: 6256

Ion Ratio Lower Upper

56 100

69 156.5 27.8 41.8#

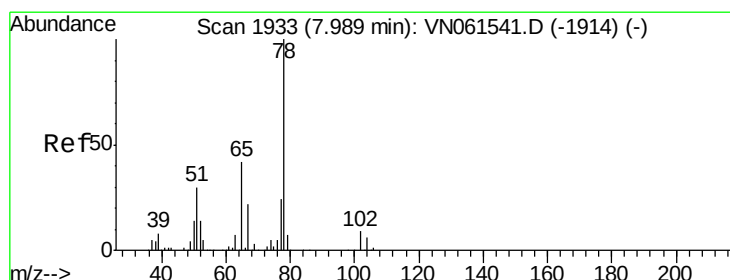
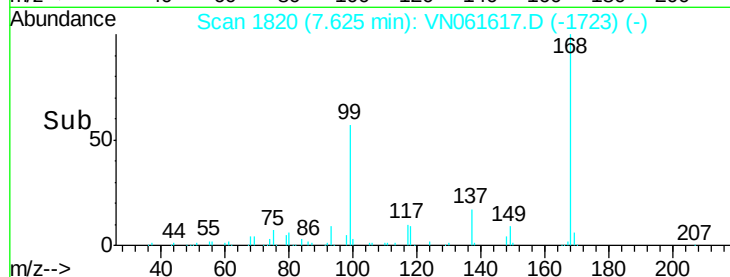
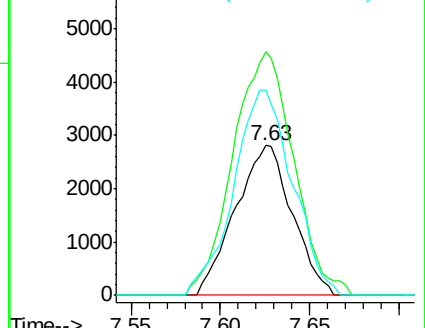
84 137.0 79.9 119.9#



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: 49.591 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061617.D

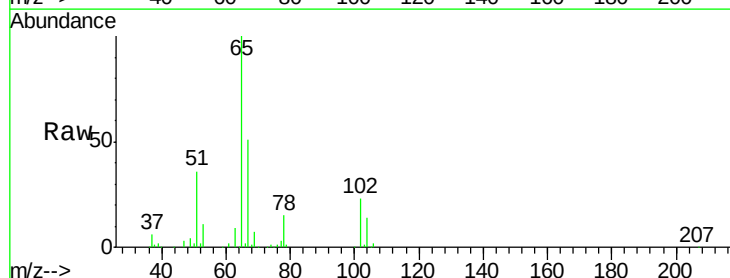
Acq: 2 Jun 2020 13:48

Tgt Ion: 65 Resp: 180856

Ion Ratio Lower Upper

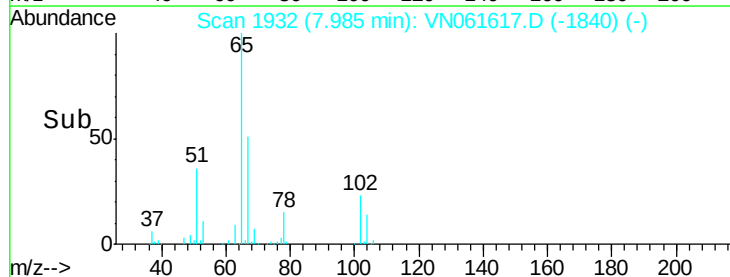
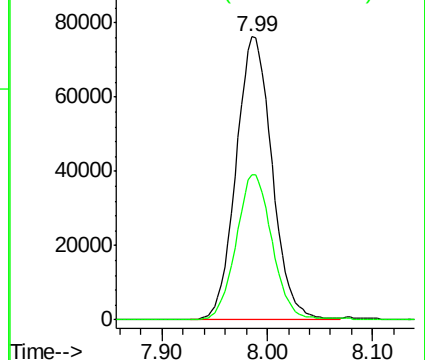
65 100

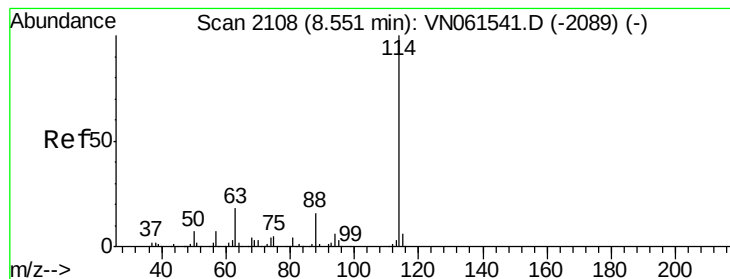
67 51.1 0.0 104.8



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: VN061617.D

Acq: 2 Jun 2020 13:48

Instrument :

MSVOA_N

ClientSampleId :

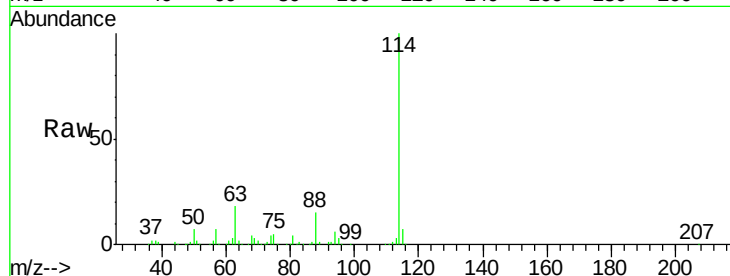
Tot Ion:114 Resp: 532095

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.8

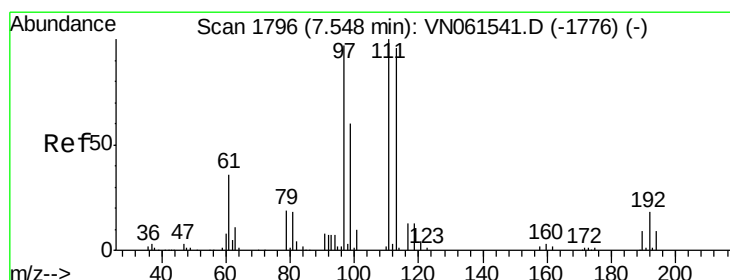
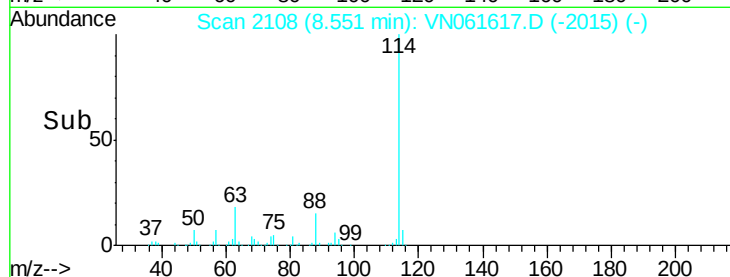
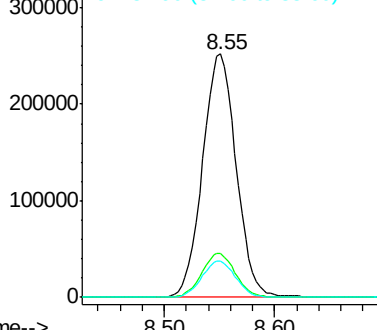
88 14.9 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 55.911 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

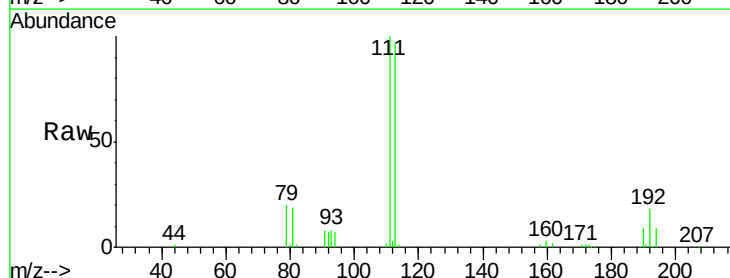
Tgt Ion:113 Resp: 150915

Ion Ratio Lower Upper

113 100

111 104.3 83.4 125.0

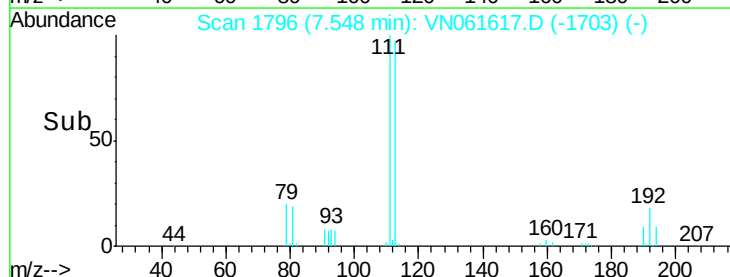
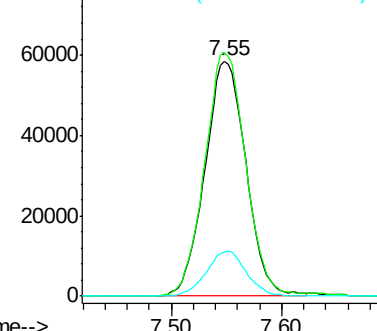
192 18.6 15.4 23.2

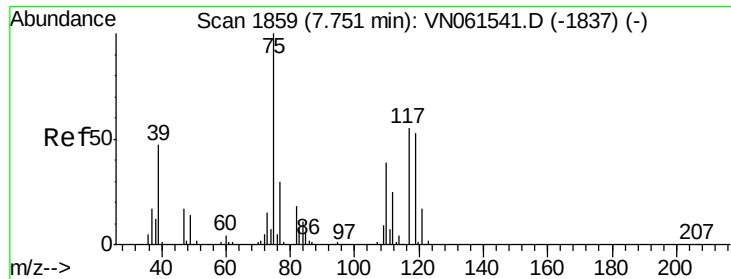


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

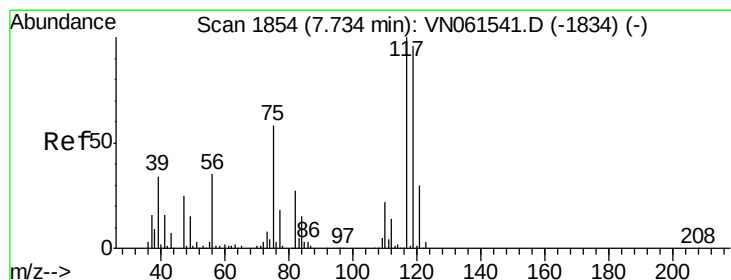
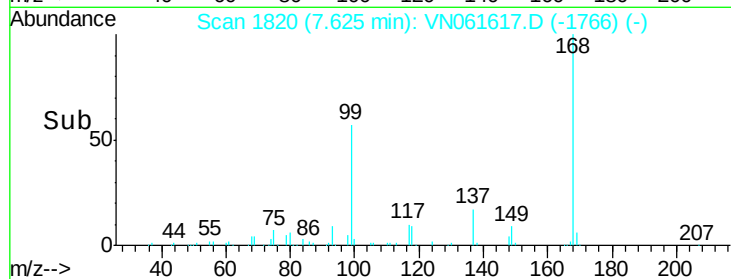
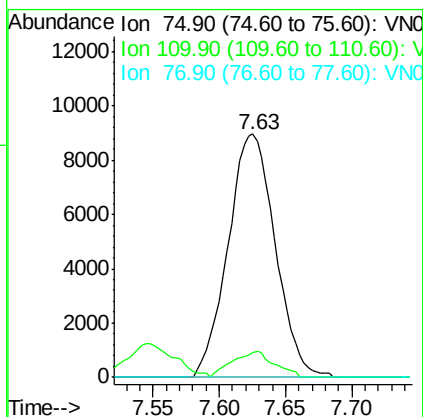
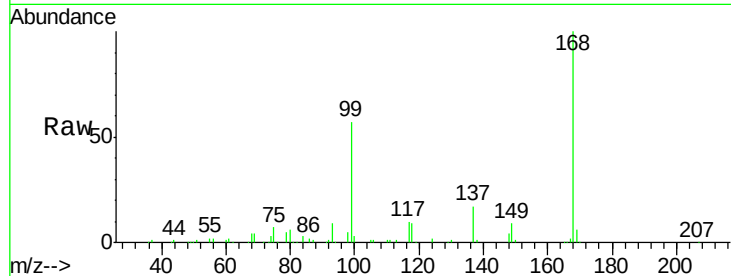




#36
 1,1-Dichloropropene
 Concen: 4.695 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061617.D
 Acq: 2 Jun 2020 13:48

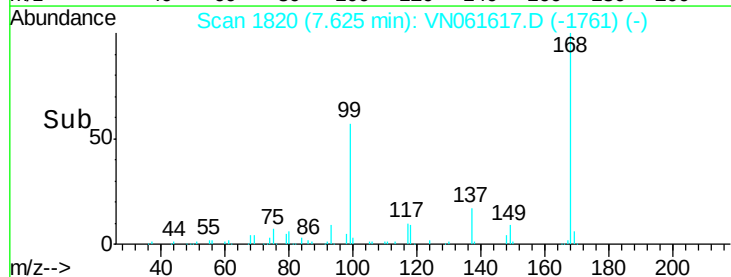
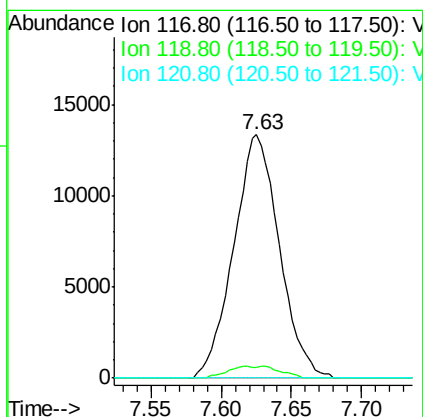
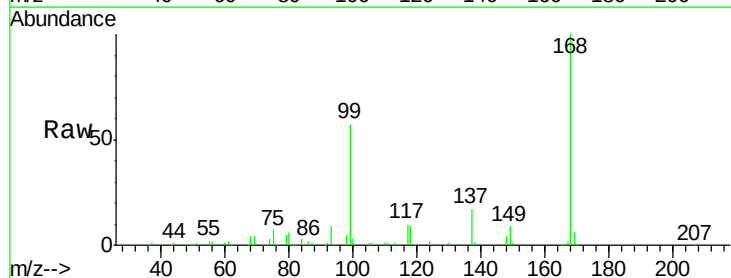
Instrument :
 MSVOA_N
 ClientSampled :

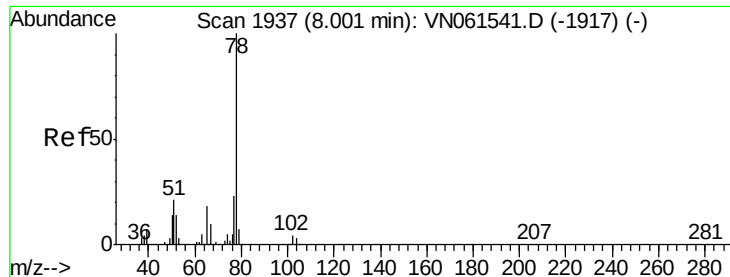
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.656 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061617.D
 Acq: 2 Jun 2020 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.5	114.7#
121	0.0	24.1	36.1#





#40

Benzene

Concen: 3.178 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

Instrument :

MSVOA_N

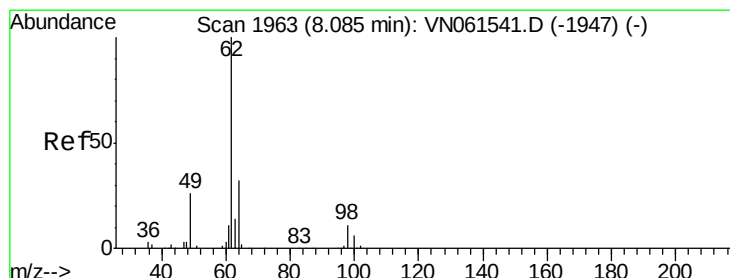
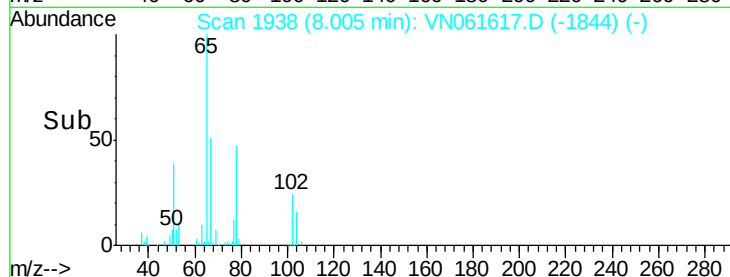
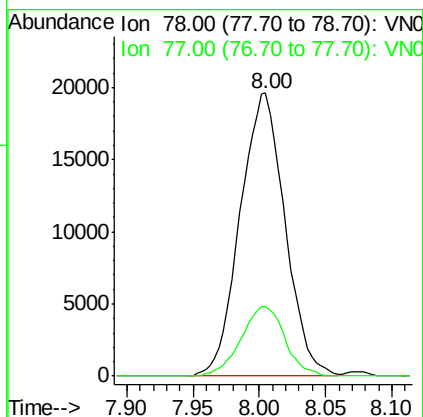
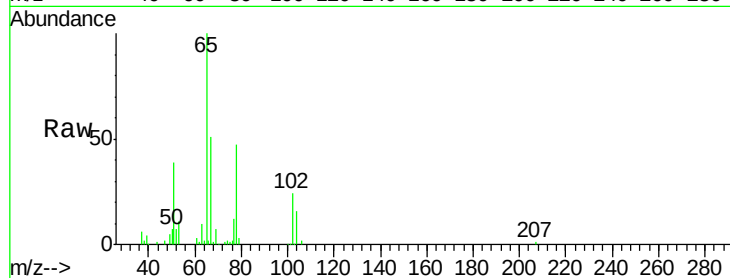
ClientSampled :

Tot Ion: 78 Resp: 46192

Ion Ratio Lower Upper

78 100

77 24.6 18.6 28.0



#42

1,2-Dichloroethane

Concen: 0.597 ug/l

RT: 8.08 min Scan# 1962

Delta R.T. -0.00 min

Lab File: VN061617.D

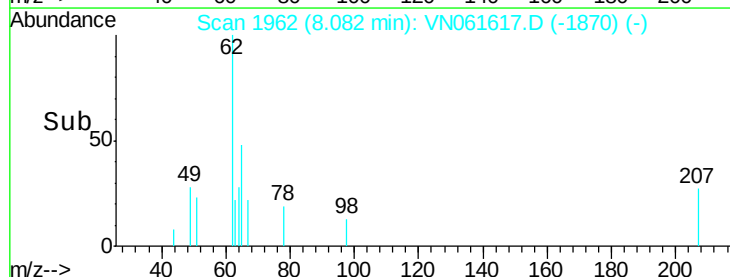
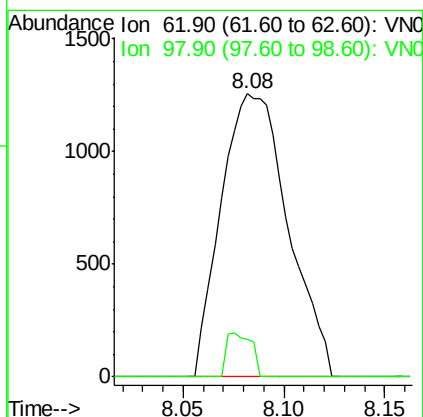
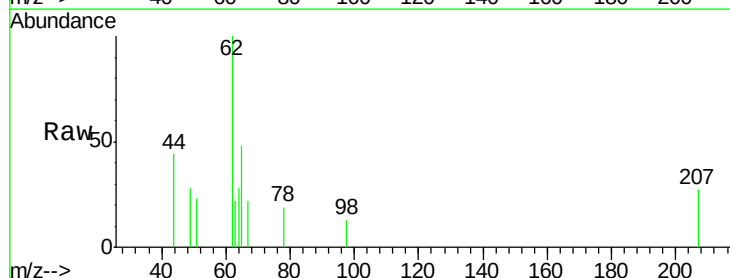
Acq: 2 Jun 2020 13:48

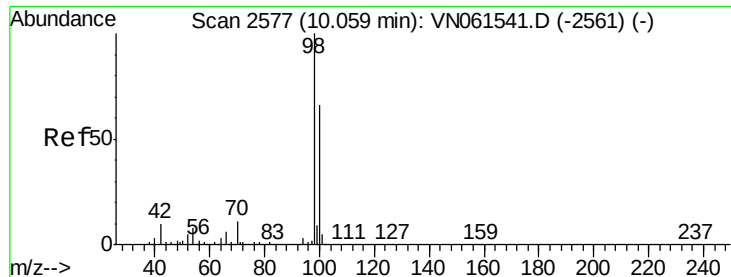
Tgt Ion: 62 Resp: 2904

Ion Ratio Lower Upper

62 100

98 5.9 0.0 21.4

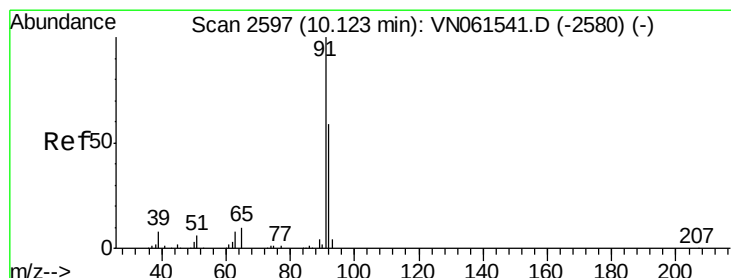
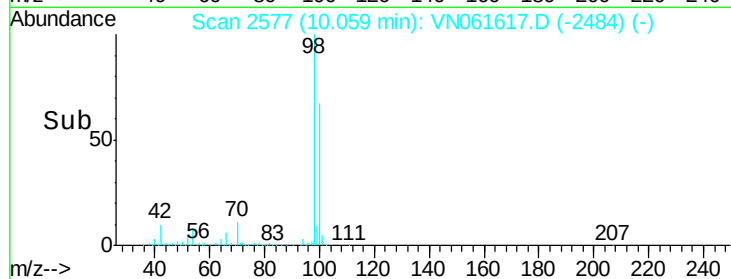
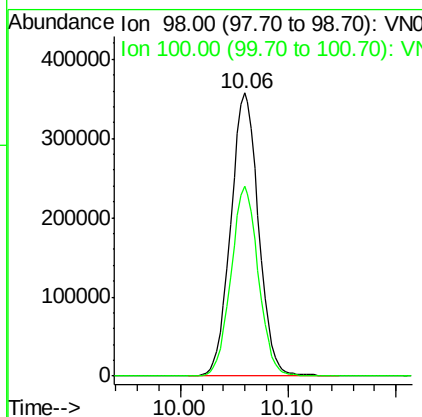
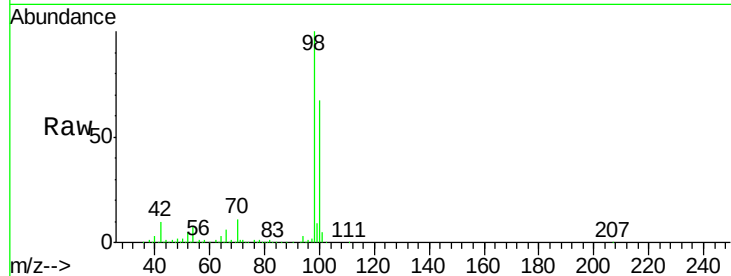




#50
Toluene-d8
Concen: 51.503 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

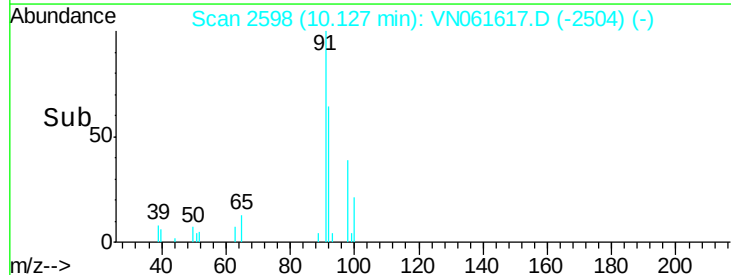
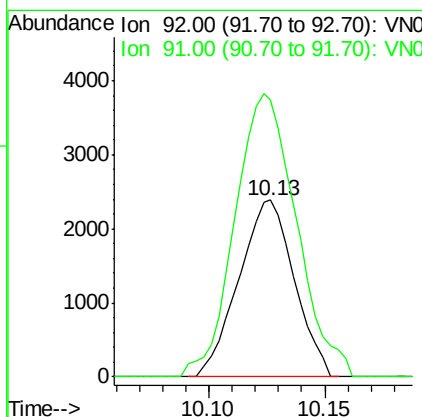
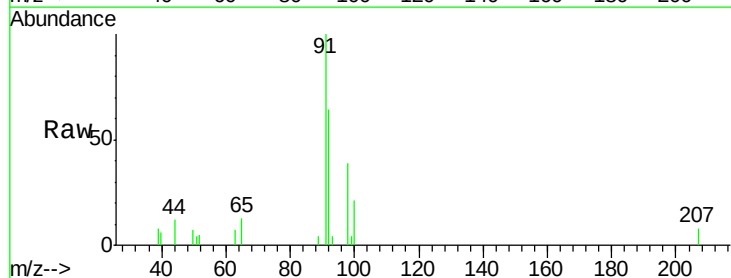
Instrument :
MSVOA_N
ClientSampled :

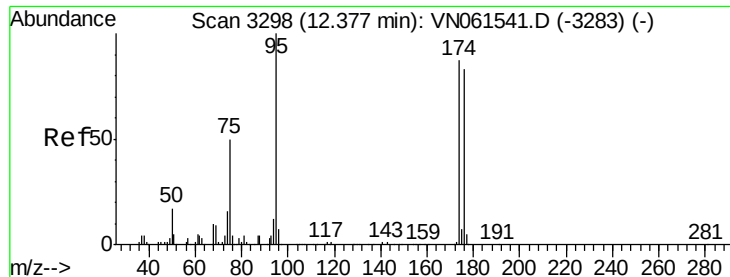
Tot Ion: 98 Resp: 644229
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



#52
Toluene
Concen: 0.418 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

Tgt Ion: 92 Resp: 3963
Ion Ratio Lower Upper
92 100
91 177.7 136.4 204.6

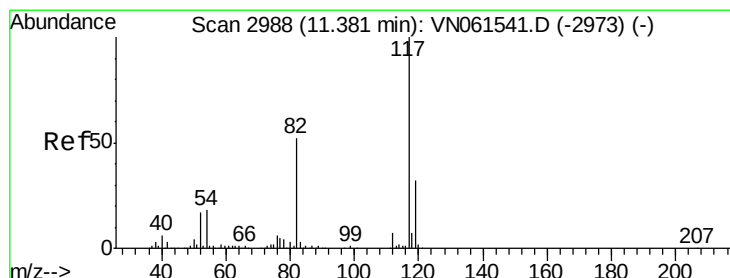
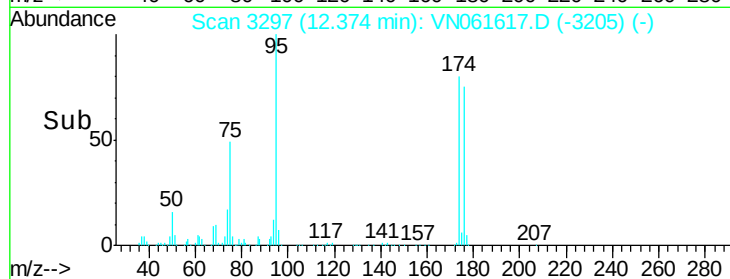
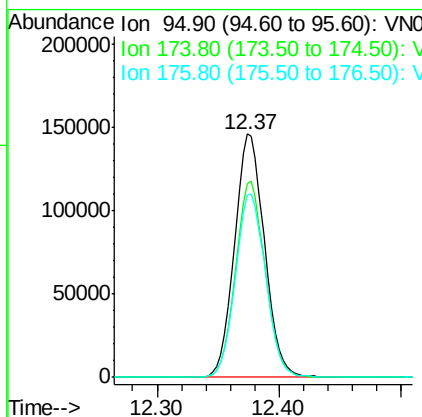
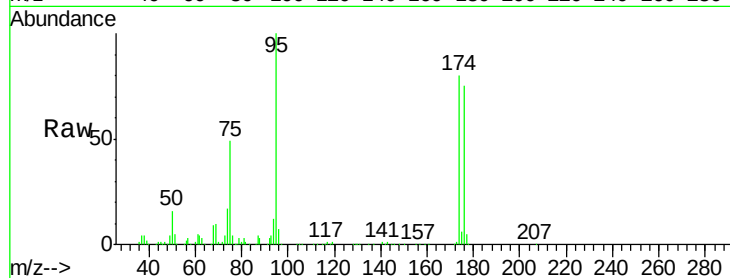




#62
4-Bromofluorobenzene
Concen: 54.454 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

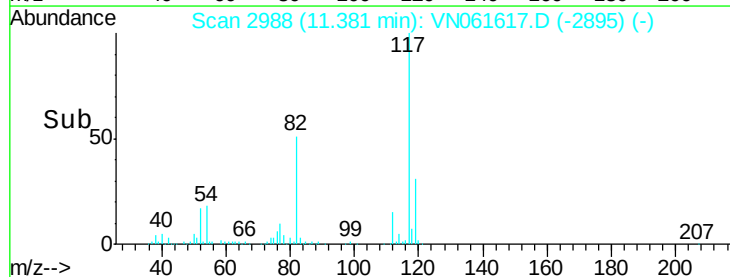
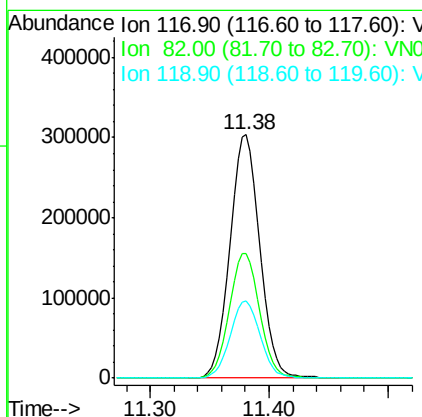
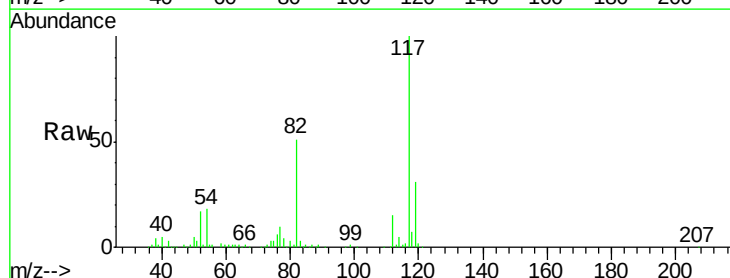
Instrument :
MSVOA_N
ClientSampled :

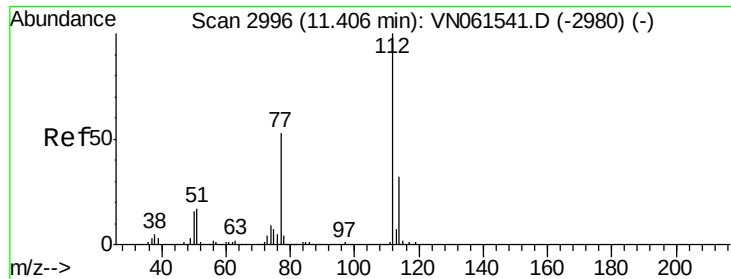
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	172.8
176	75.9	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.3	41.5	62.3
119	31.5	25.6	38.4

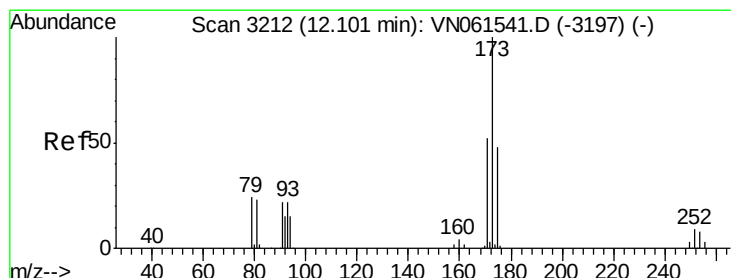
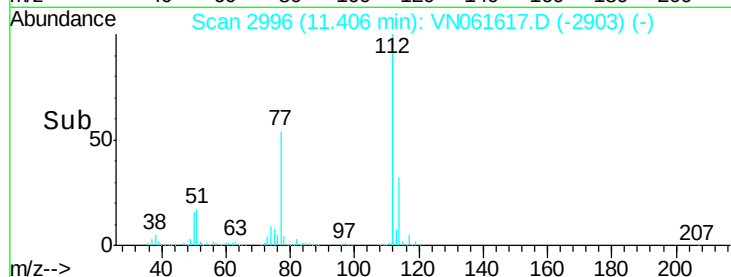
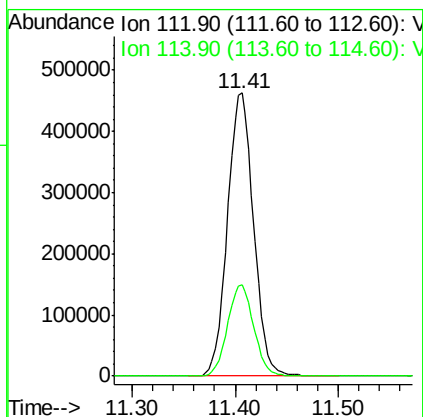
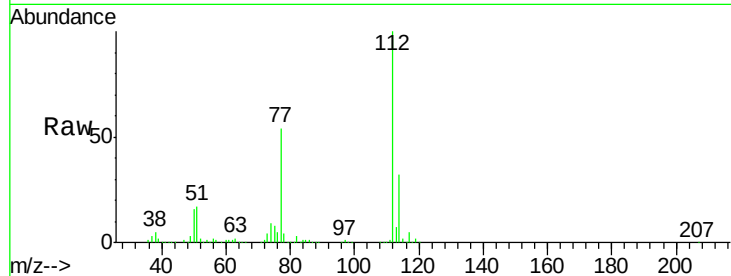




#65
Chlorobenzene
Concen: 74.242 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

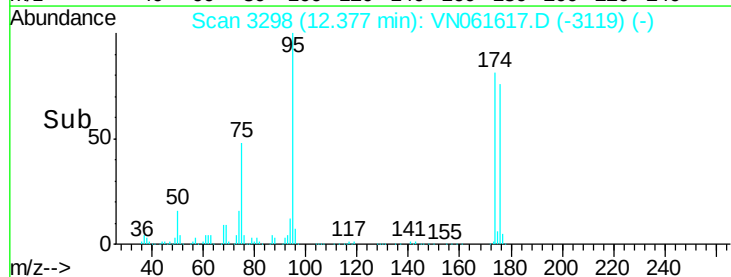
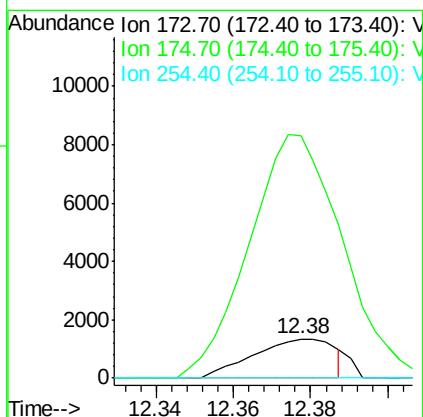
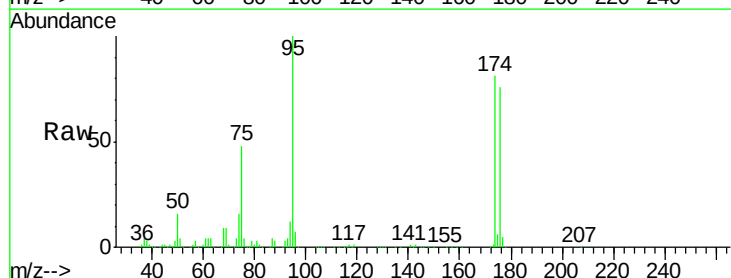
Instrument :
MSVOA_N
ClientSampled :

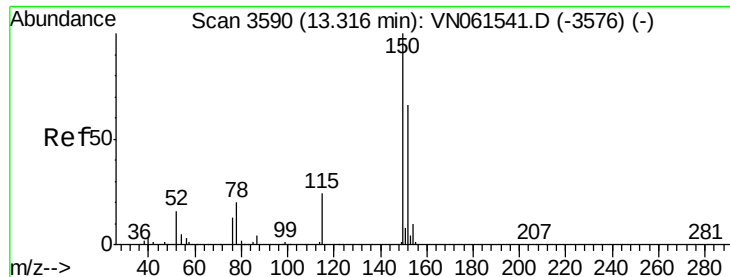
Tot Ion:112 Resp: 816132
Ion Ratio Lower Upper
112 100
114 32.1 25.7 38.5



#71
Bromoform
Concen: 0.621 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

Tgt Ion:173 Resp: 1958
Ion Ratio Lower Upper
173 100
175 616.5 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061617.D

Acq: 2 Jun 2020 13:48

Instrument :

MSVOA_N

ClientSampled :

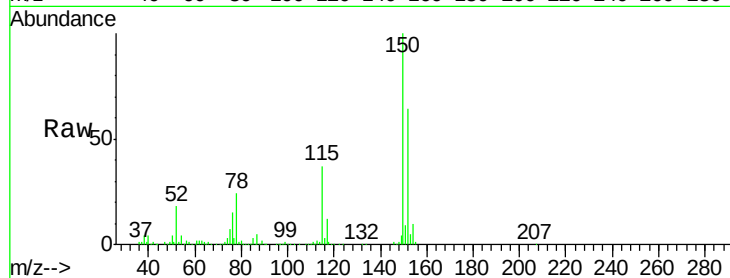
Tot Ion:152 Resp: 239363

Ion Ratio Lower Upper

152 100

115 58.7 28.0 84.0

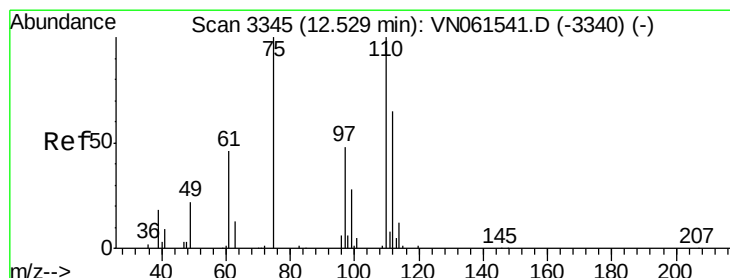
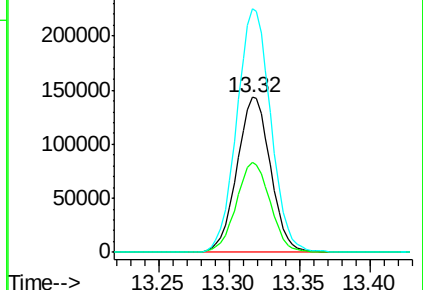
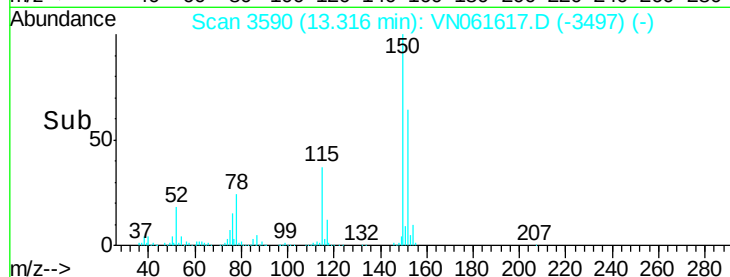
150 158.5 0.0 344.0



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



#76

1,2,3-Trichloropropane

Concen: 27.366 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061617.D

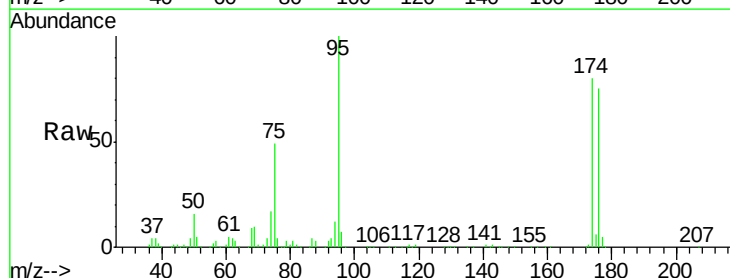
Acq: 2 Jun 2020 13:48

Tgt Ion: 75 Resp: 119110

Ion Ratio Lower Upper

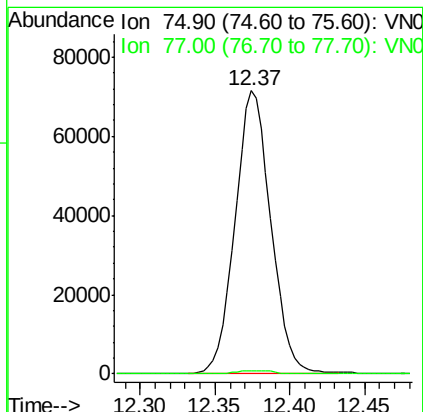
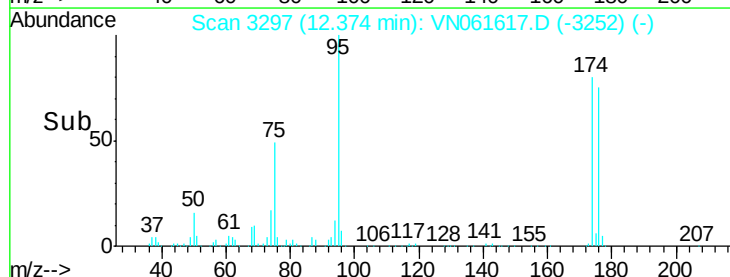
75 100

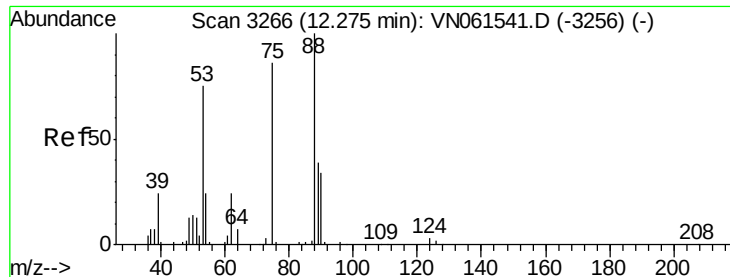
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

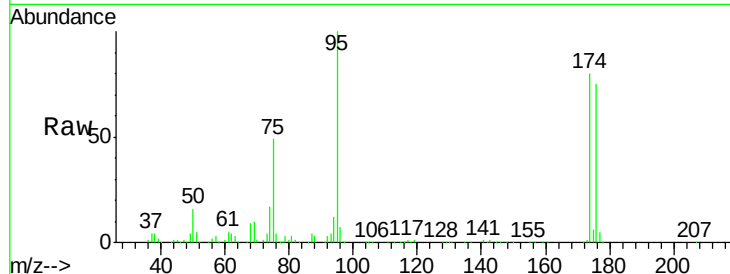




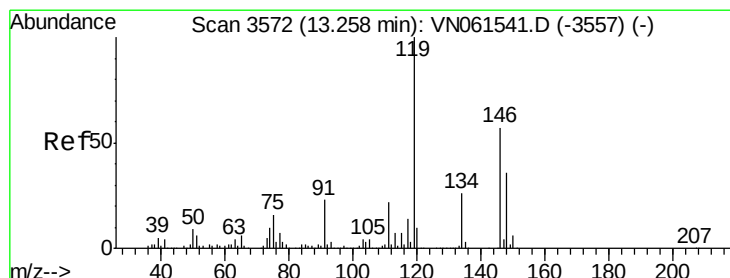
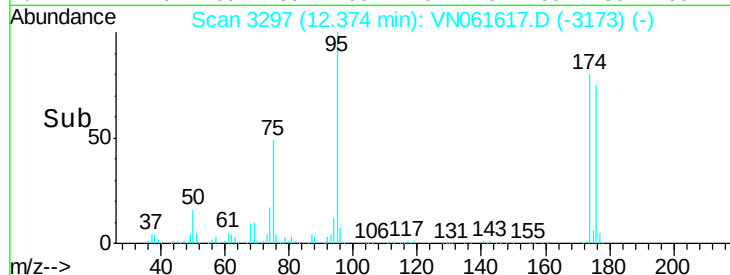
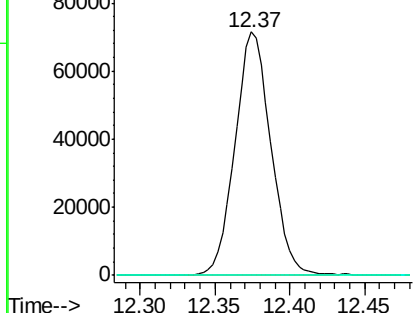
#81
trans-1,4-Dichloro-2-butene
Concen: 69.981 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.10 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 119110
Ion Ratio Lower Upper
75 100
53 0.0 67.8 101.8#
89 0.0 37.1 55.7#

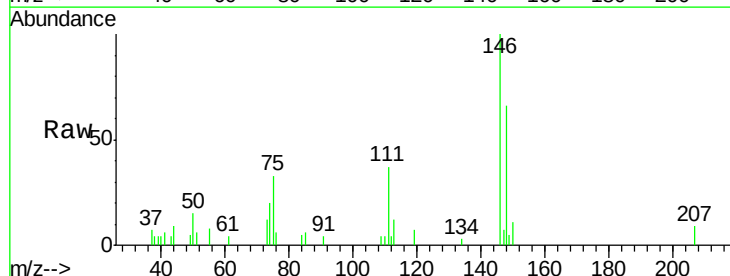


Abundance Ion 74.90 (74.60 to 75.60): VN061617.D (-3297) (-)
Ion 53.00 (52.70 to 53.70): VN061617.D (-3297) (-)
Ion 88.90 (88.60 to 89.60): VN061617.D (-3297) (-)

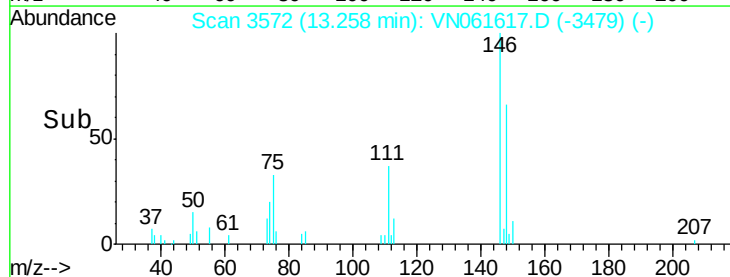
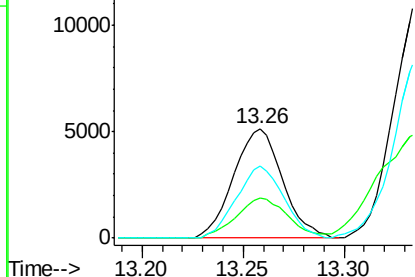


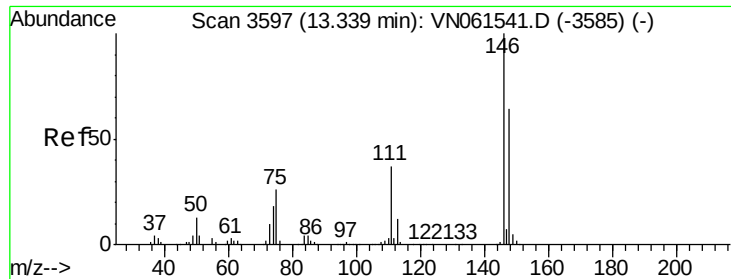
#87
1,3-Dichlorobenzene
Concen: 1.102 ug/l
RT: 13.26 min Scan# 3572
Delta R.T. 0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

Tgt Ion: 146 Resp: 8706
Ion Ratio Lower Upper
146 100
111 38.7 19.2 57.6
148 63.6 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): VN061617.D (-3572) (-)
Ion 110.90 (110.60 to 111.60): VN061617.D (-3572) (-)
Ion 147.90 (147.60 to 148.60): VN061617.D (-3572) (-)

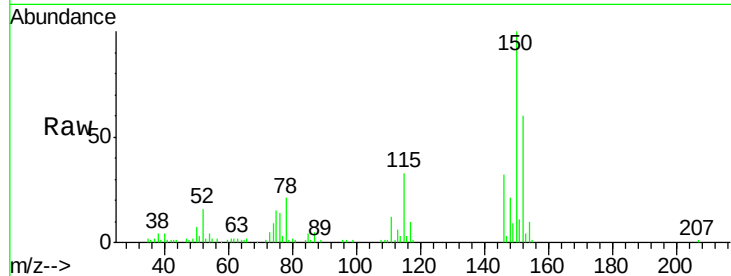




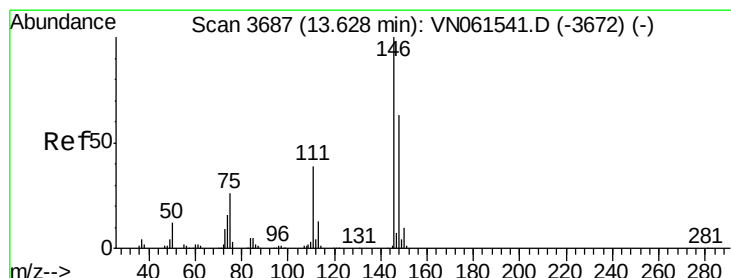
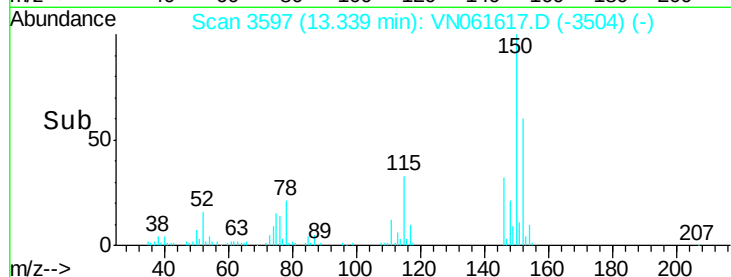
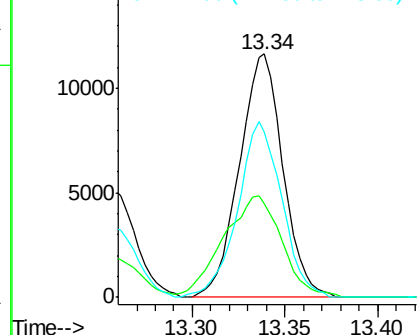
#88
 1,4-Dichlorobenzene
 Concen: 2.367 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN061617.D
 Acq: 2 Jun 2020 13:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 19043
 Ion Ratio Lower Upper
 146 100
 111 56.0 18.9 56.9
 148 73.0 31.8 95.3

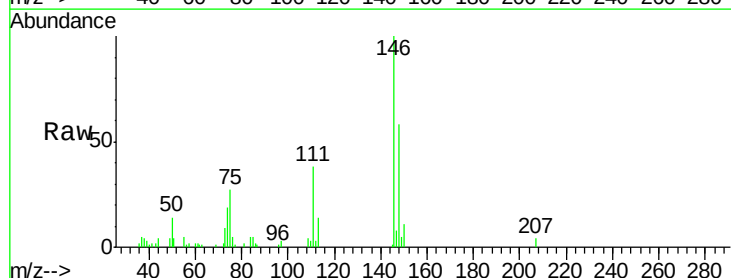


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

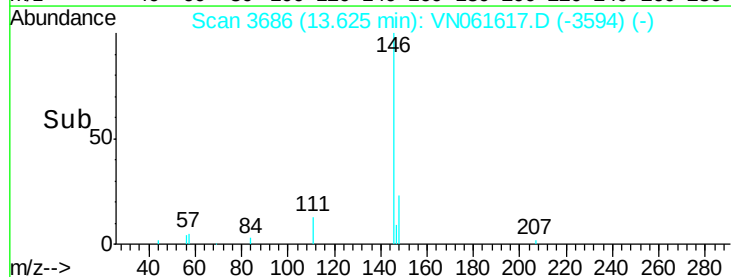
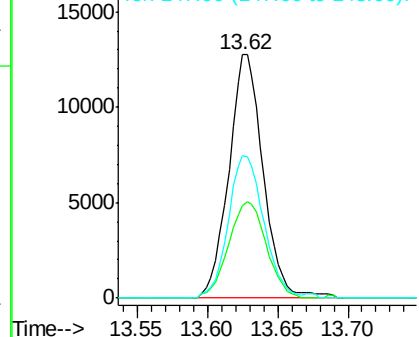


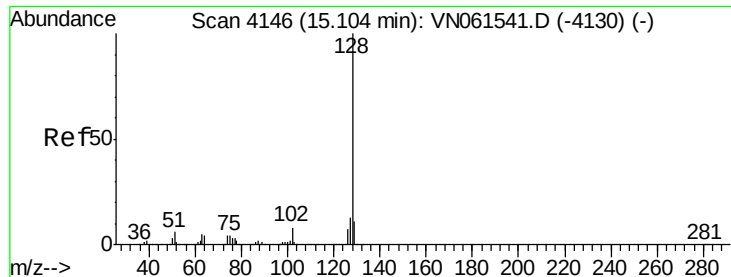
#91
 1,2-Dichlorobenzene
 Concen: 2.872 ug/l
 RT: 13.62 min Scan# 3686
 Delta R.T. -0.00 min
 Lab File: VN061617.D
 Acq: 2 Jun 2020 13:48

Tgt Ion:146 Resp: 21674
 Ion Ratio Lower Upper
 146 100
 111 43.4 20.1 60.2
 148 60.4 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

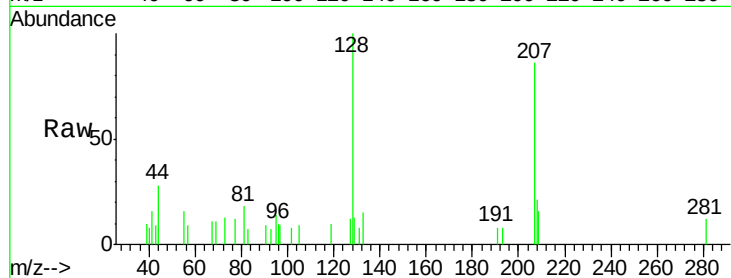




#95
Naphthalene
Concen: 0.276 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061617.D
Acq: 2 Jun 2020 13:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 3713
Ion Ratio Lower Upper
128 100
127 6.9 10.0 15.0#
129 10.5 8.5 12.7



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

