

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061515.D
 Acq On : 20 May 2020 20:57
 Operator : JC/MD
 Sample : L2497-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-051920

Quant Time: May 21 01:15:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	286513	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	522943	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	529558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	235872	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	193099	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	
35) Dibromofluoromethane	7.55	113	150530	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	
50) Toluene-d8	10.06	98	658536	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.37	95	256731	54.08	ug/l	0.00
Spiked Amount			Recovery	=	108.16%	

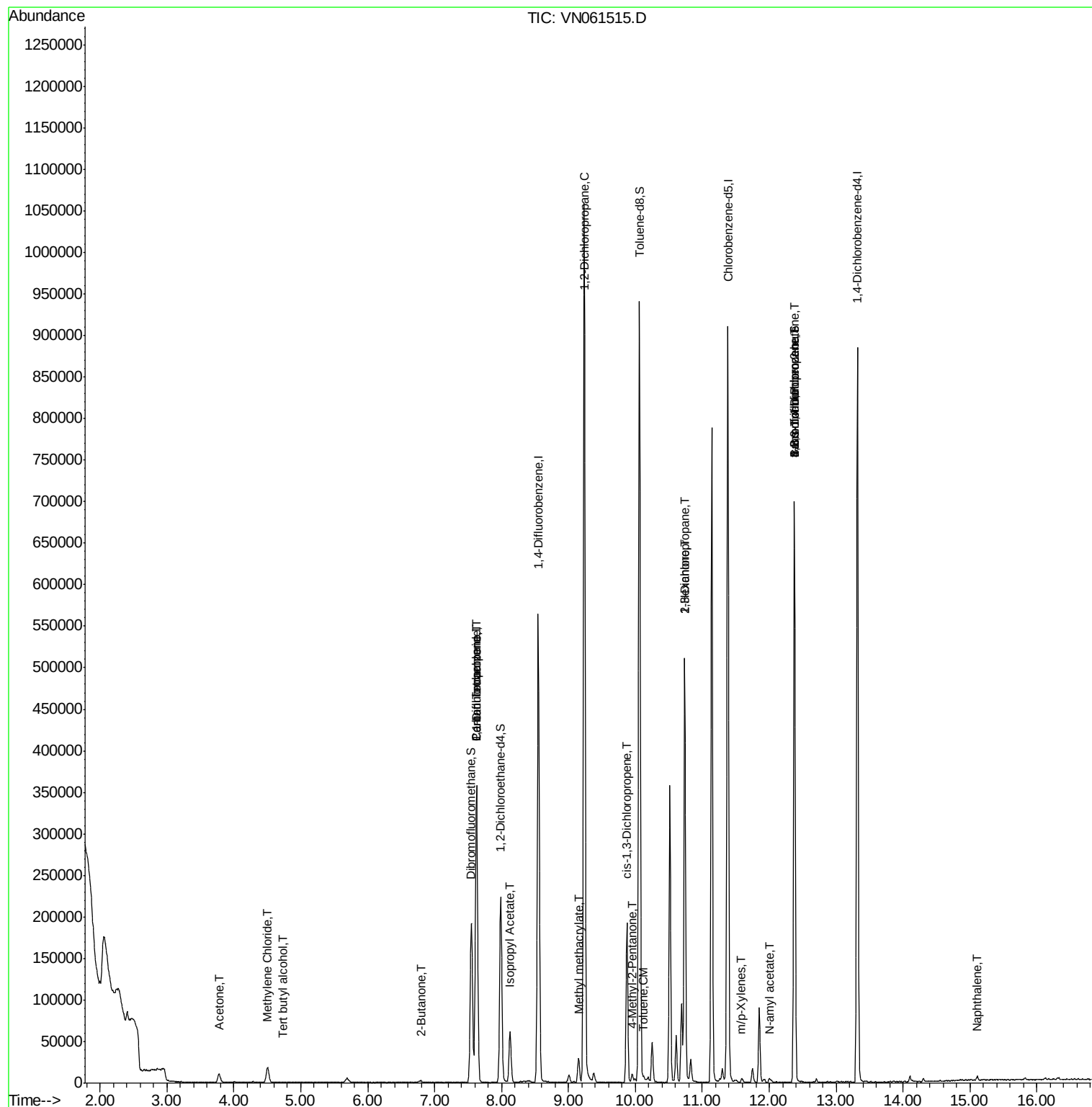
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	303	Below Cal	#	3
11) Tert butyl alcohol	4.73	59	101	0.205	ug/l #	73
16) Acetone	3.78	43	17846	5.105	ug/l	97
17) Carbon Disulfide	4.00	76	213	Below Cal	#	75
18) Methyl Acetate	4.28	43	332	Below Cal	#	75
20) Methylene Chloride	4.51	84	14460	4.115	ug/l	94
25) 2-Butanone	6.80	43	2516	1.292	ug/l	99
31) Cyclohexane	7.63	56	6532	Below Cal	#	17
36) 1,1-Dichloropropene	7.63	75	22760	4.655	ug/l #	51
38) Carbon Tetrachloride	7.63	117	30418	6.756	ug/l #	15
43) Isopropyl Acetate	8.13	43	71344	9.224	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1560	0.423	ug/l #	43
48) Methyl methacrylate	9.15	41	4058	1.136	ug/l #	9
49) 1,4-Dioxane	9.16	88	30	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6780	1.609	ug/l	96
52) Toluene	10.13	92	2191	0.232	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	38521	6.069	ug/l #	59
57) 1,3-Dichloropropane	10.74	76	6003	0.971	ug/l #	42
59) 2-Hexanone	10.74	43	67773	22.233	ug/l #	51
68) m/p-Xylenes	11.59	106	1782	0.238	ug/l	98
71) Bromoform	12.38	173	1663	2.550	ug/l #	1
74) N-amyl acetate	12.00	43	3373	0.487	ug/l #	42
76) 1,2,3-Trichloropropane	12.37	75	129623	25.611	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	129623	67.940	ug/l #	12
95) Naphthalene	15.11	128	4595	0.369	ug/l #	92

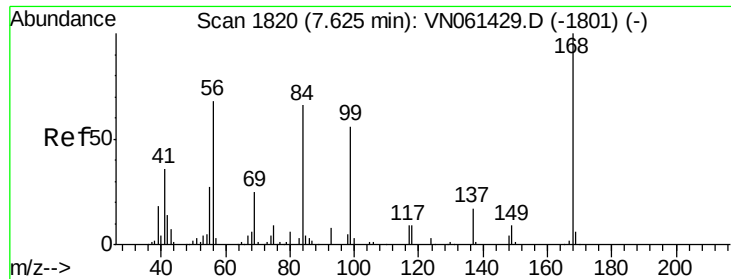
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

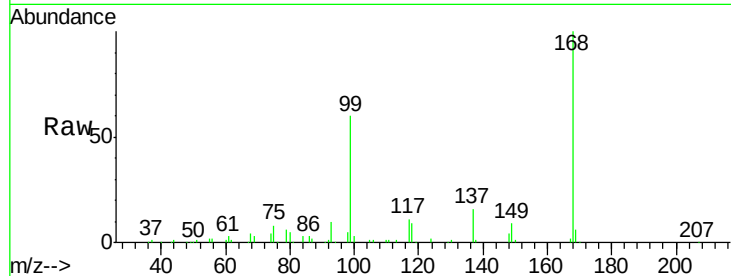
HD-02-051920

Tot Ion:168 Resp: 286513

Ion Ratio Lower Upper

168 100

99 60.4 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

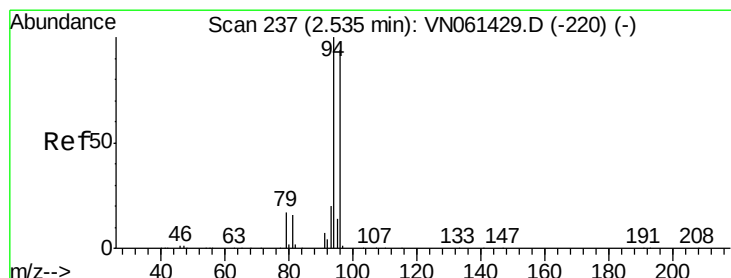
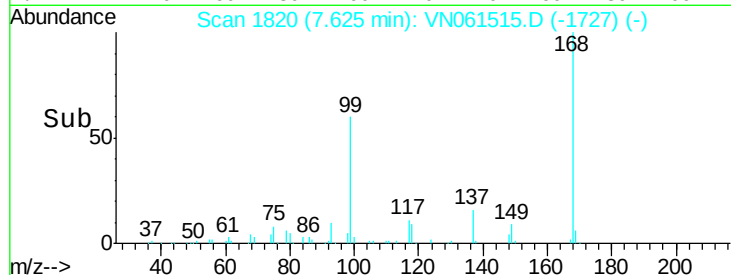
7.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN061515.D

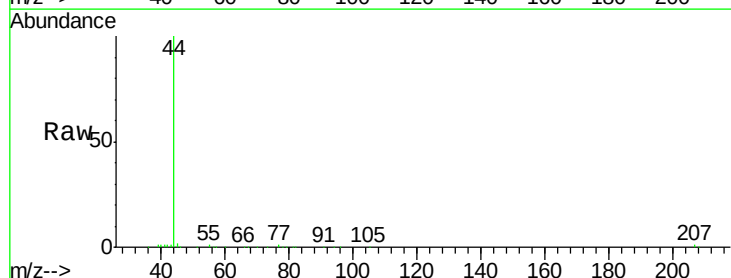
Acq: 20 May 2020 20:57

Tgt Ion: 94 Resp: 303

Ion Ratio Lower Upper

94 100

96 0.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

600

500

400

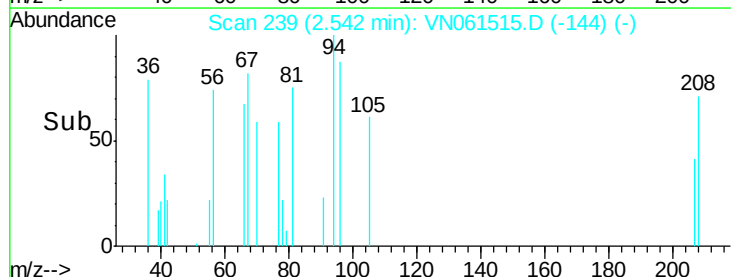
300

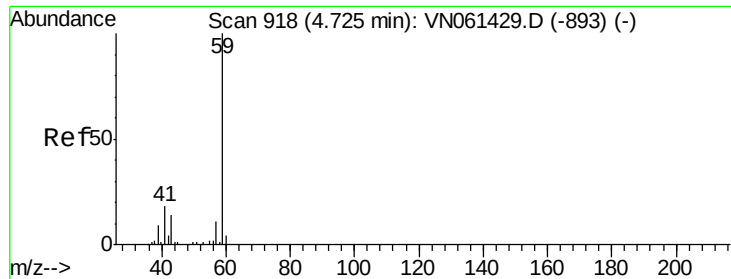
200

100

0

Time-->

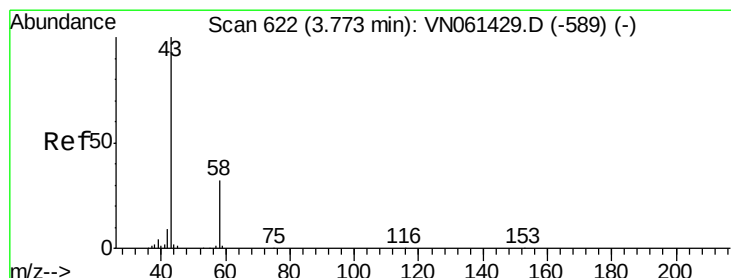
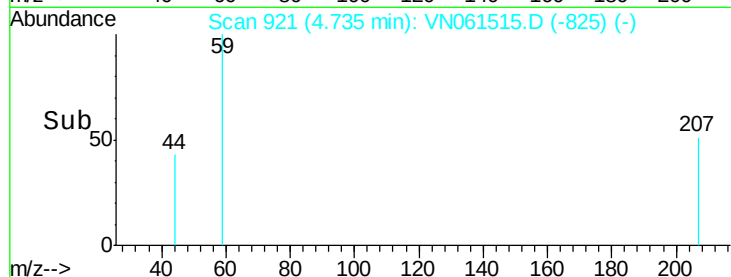
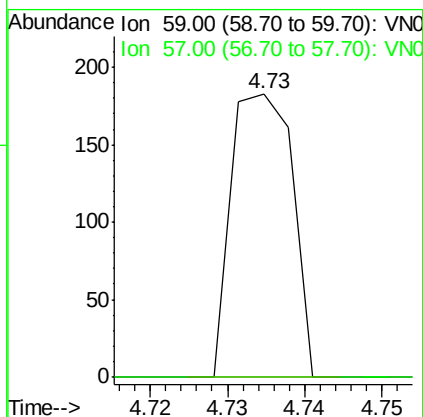
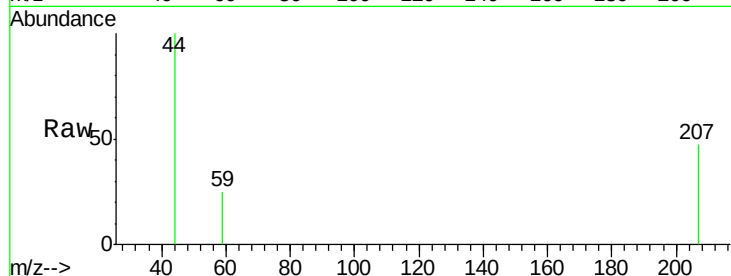




#11
Tert butyl alcohol
Concen: 0.205 ug/l
RT: 4.73 min Scan# 921
Delta R.T. 0.01 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

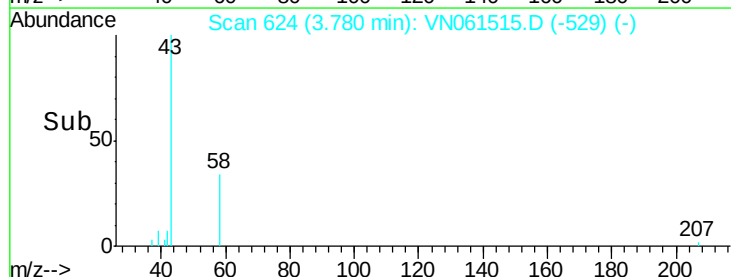
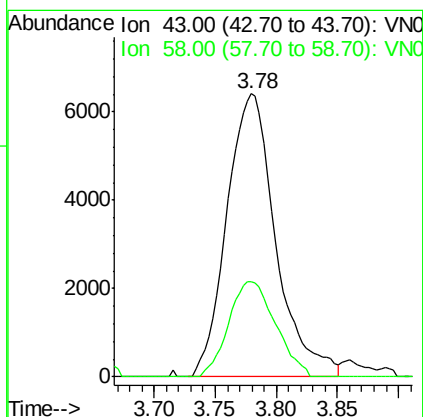
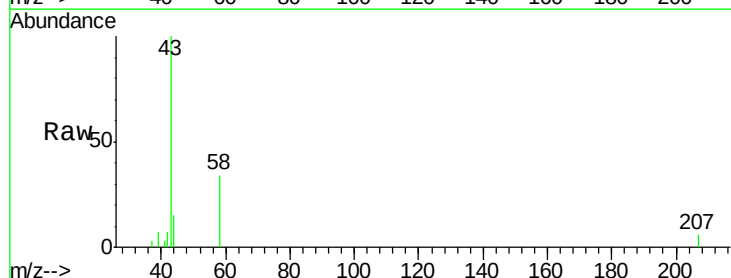
Instrument :
MSVOA_N
ClientSampled :
HD-02-051920

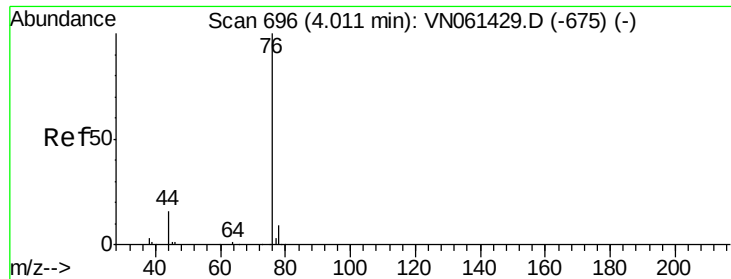
Tot Ion: 59 Resp: 101
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 5.105 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

Tgt Ion: 43 Resp: 17846
Ion Ratio Lower Upper
43 100
58 33.6 25.6 38.4





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

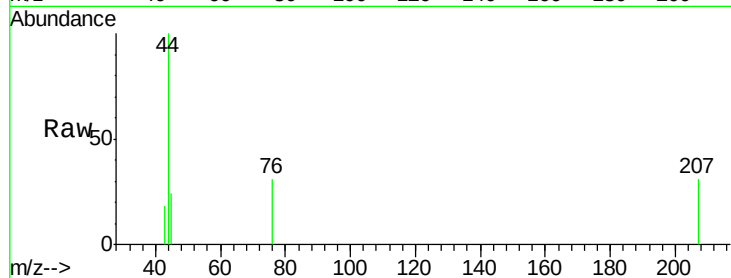
HD-02-051920

Tot Ion: 76 Resp: 213

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.00

250

200

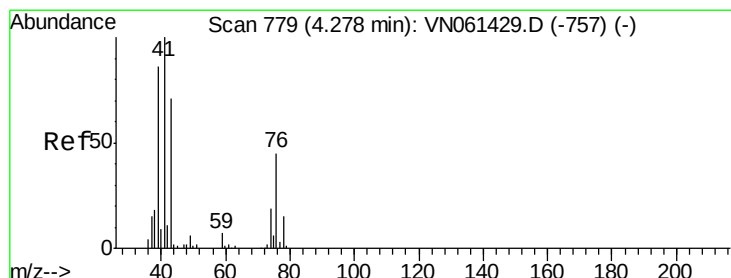
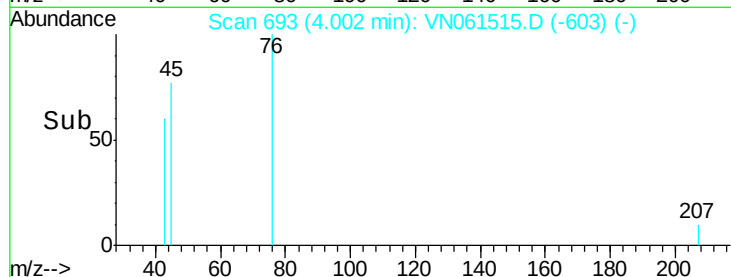
150

100

50

0

Time--> 3.98 3.99 4.00 4.01



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN061515.D

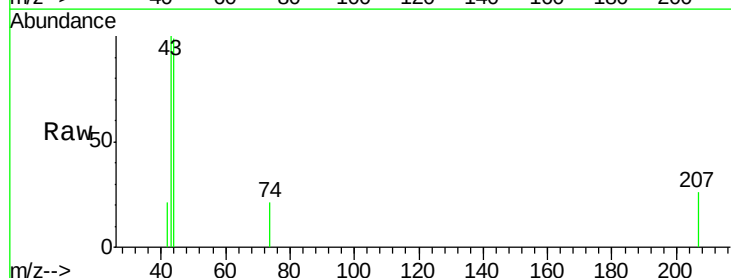
Acq: 20 May 2020 20:57

Tgt Ion: 43 Resp: 332

Ion Ratio Lower Upper

43 100

74 38.6 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

800

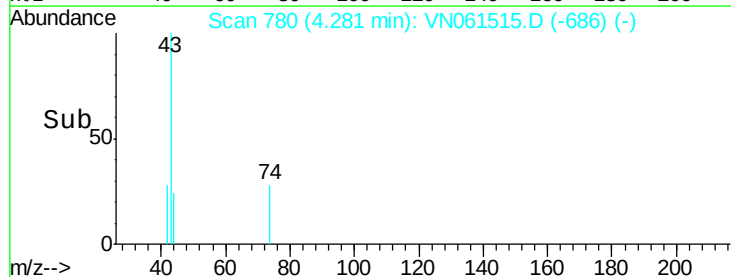
600

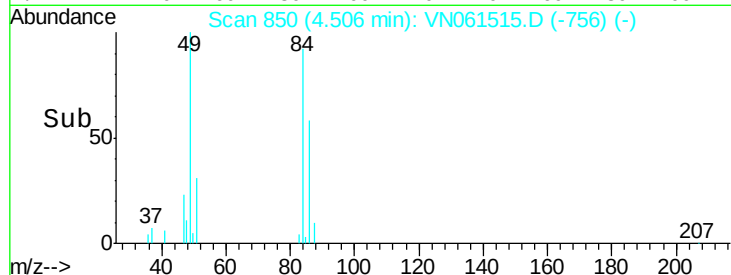
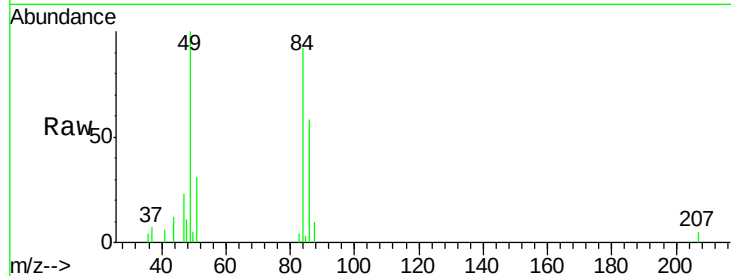
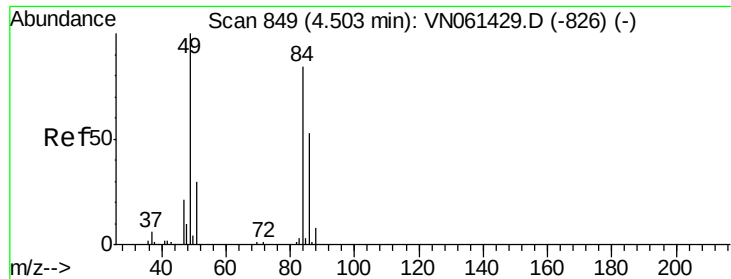
400

200

0

Time--> 4.27 4.28 4.29 4.30

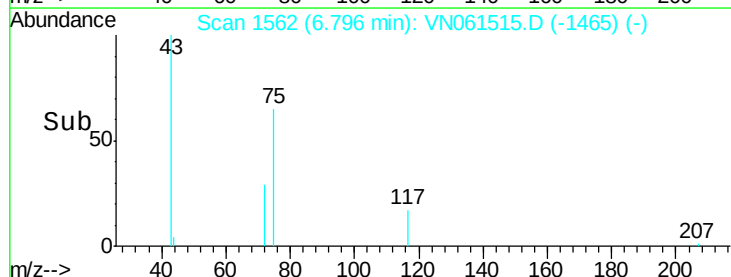
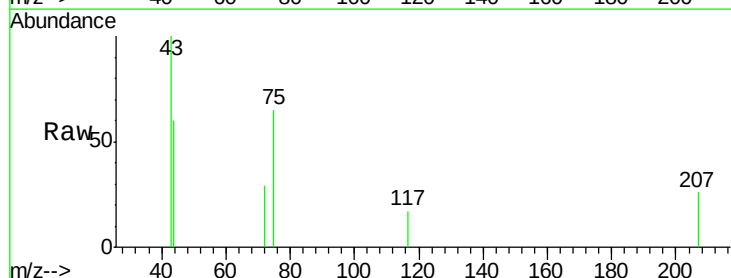
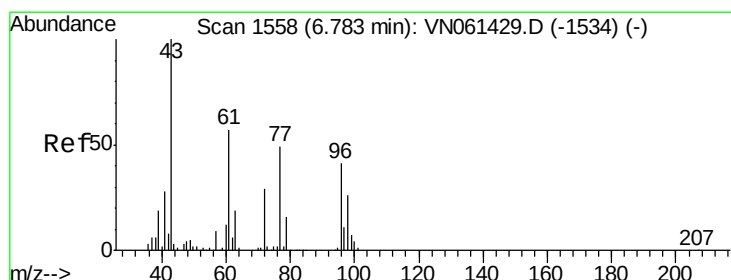
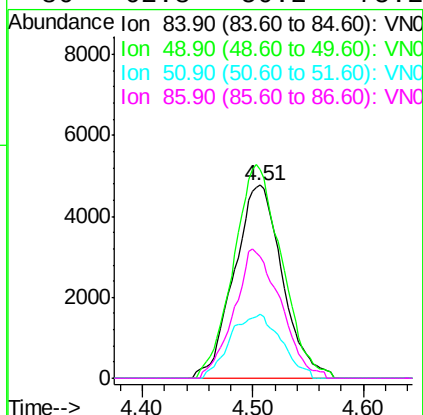




#20
Methylene Chloride
Concen: 4.115 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

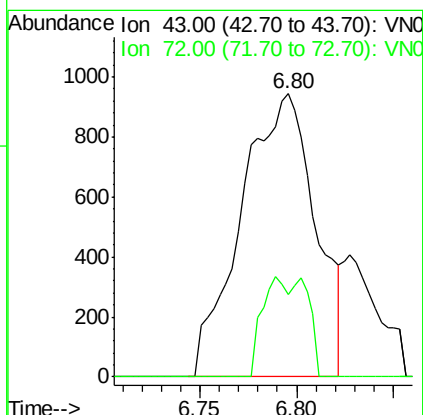
Instrument :
MSVOA_N
ClientSampleId :
HD-02-051920

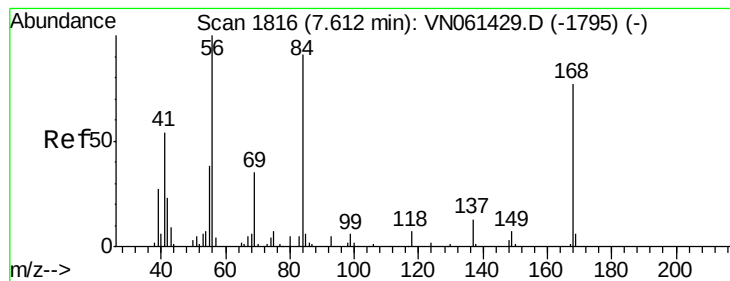
Tot Ion:	84	Resp:	14460
Ion	Ratio	Lower	Upper
84	100		
49	108.1	95.3	142.9
51	33.1	29.0	43.6
86	62.8	50.2	75.2



#25
2-Butanone
Concen: 1.292 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

Tgt Ion:	43	Resp:	2516
Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.0	34.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

HD-02-051920

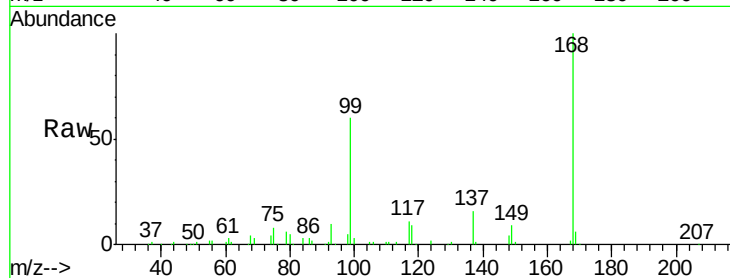
Tot Ion: 56 Resp: 6532

Ion Ratio Lower Upper

56 100

69 153.8 27.8 41.6#

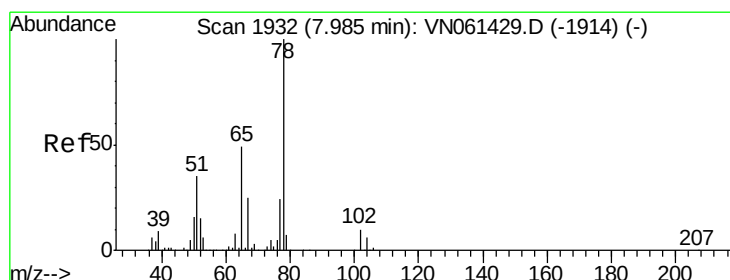
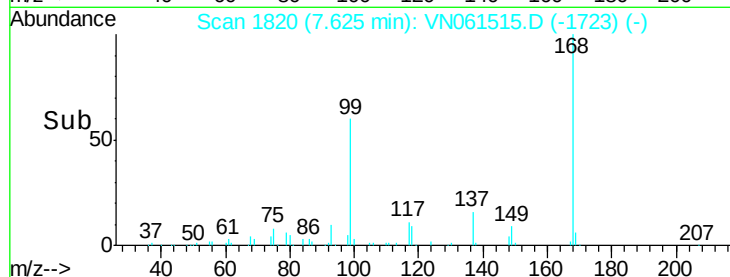
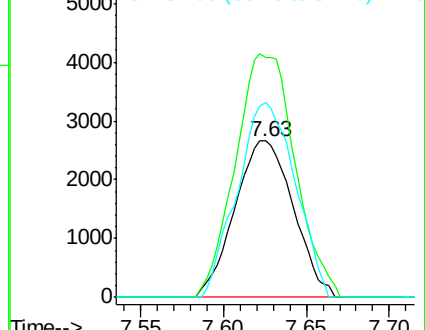
84 124.7 72.7 109.1#



Abundance Ion 56.00 (55.70 to 56.70): VN061515.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061515.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061515.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 45.158 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061515.D

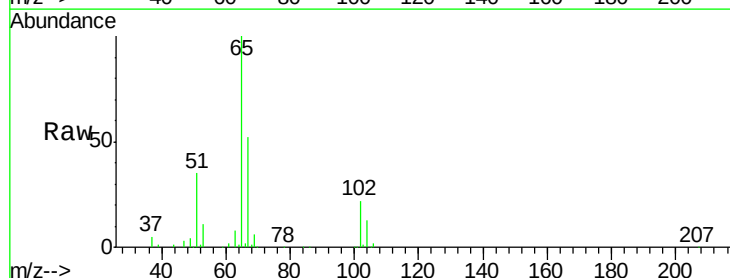
Acq: 20 May 2020 20:57

Tgt Ion: 65 Resp: 193099

Ion Ratio Lower Upper

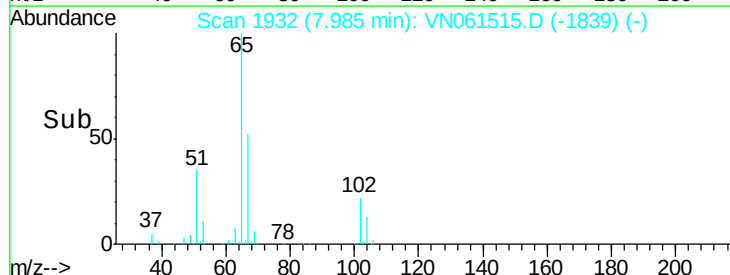
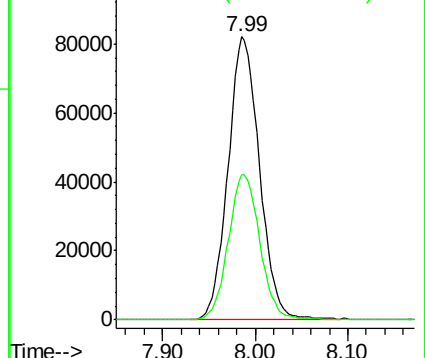
65 100

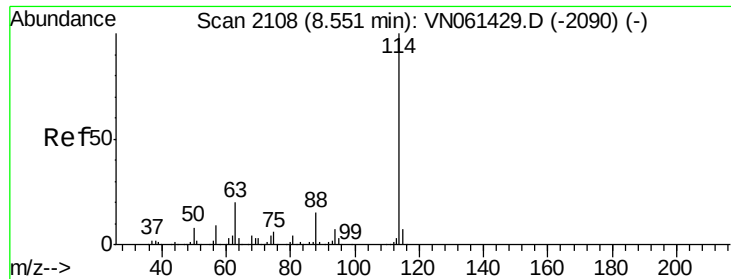
67 51.3 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN061515.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN061515.D (-1839) (-)

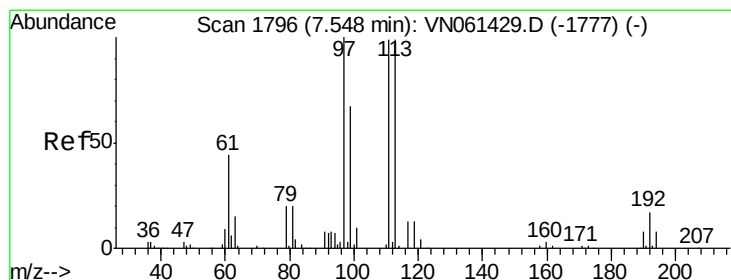
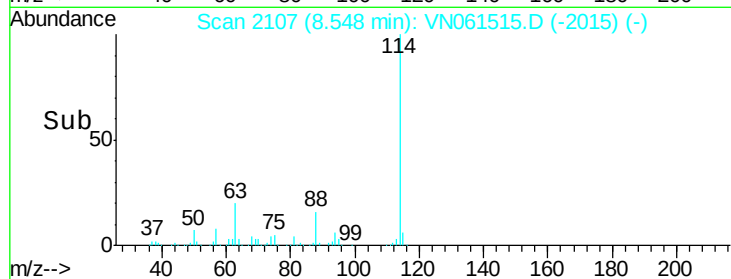
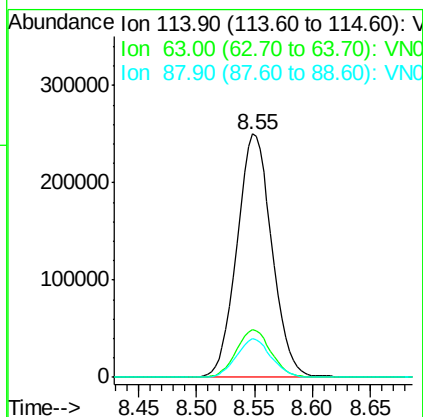
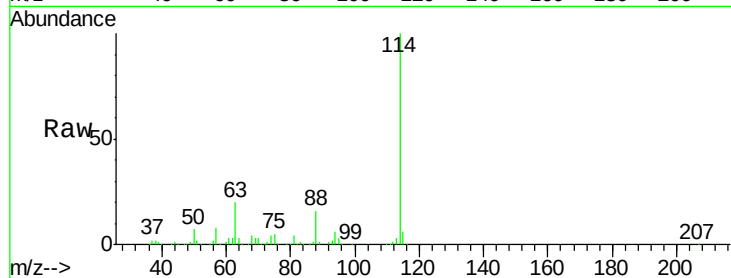




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061515.D
 Acq: 20 May 2020 20:57

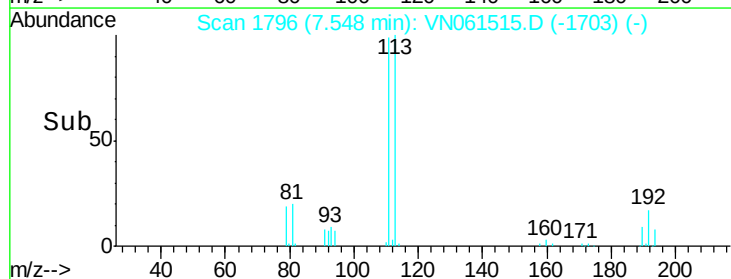
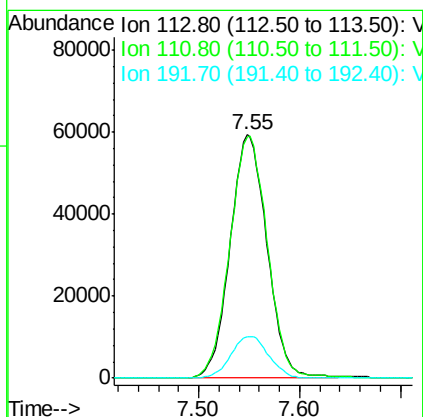
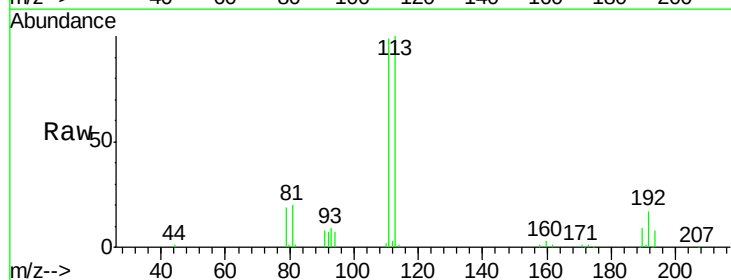
Instrument :
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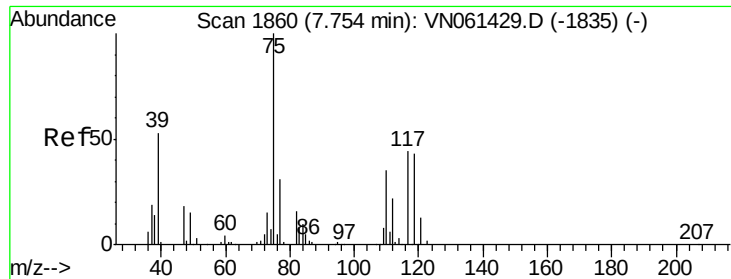
Tot Ion:114 Resp: 522943
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.8
 88 15.7 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 54.947 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061515.D
 Acq: 20 May 2020 20:57

Tgt Ion:113 Resp: 150530
 Ion Ratio Lower Upper
 113 100
 111 101.9 80.6 121.0
 192 17.7 13.2 19.8

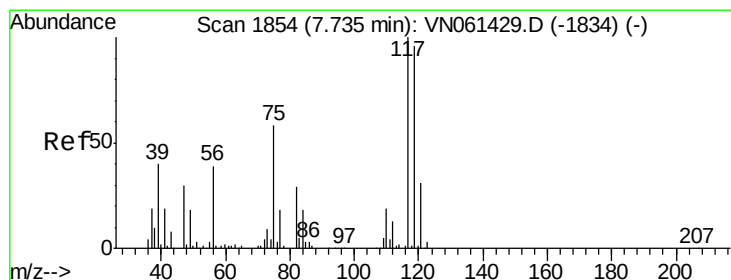
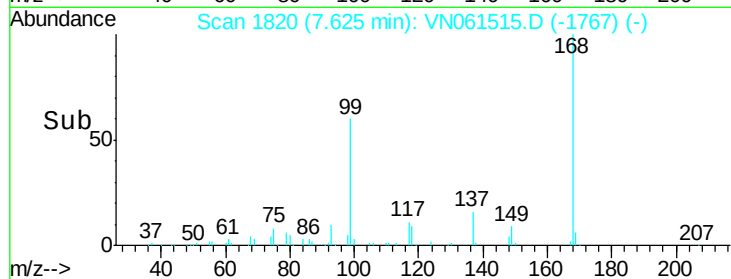
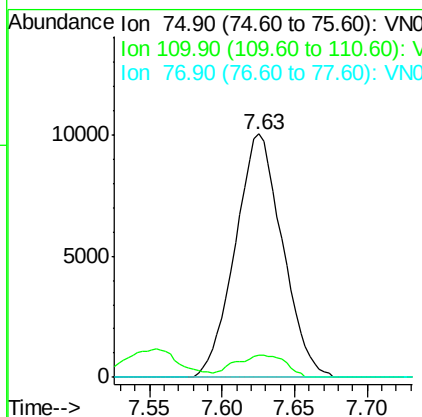
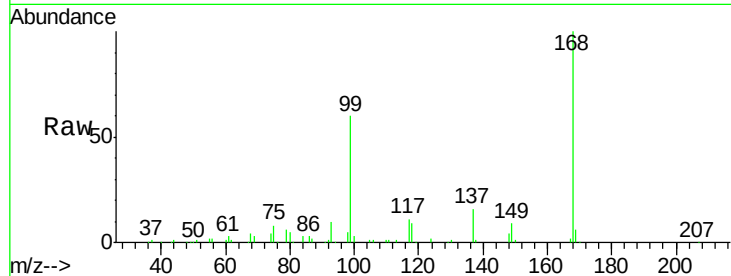




#36
 1,1-Dichloropropene
 Concen: 4.655 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061515.D
 Acq: 20 May 2020 20:57

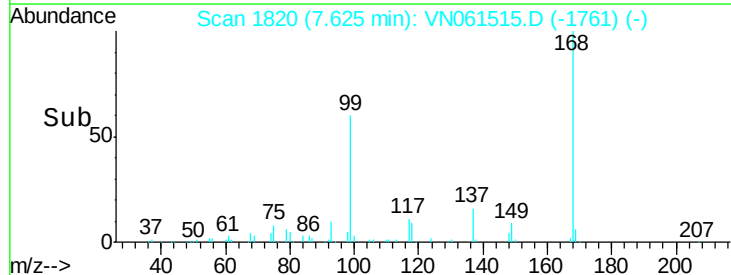
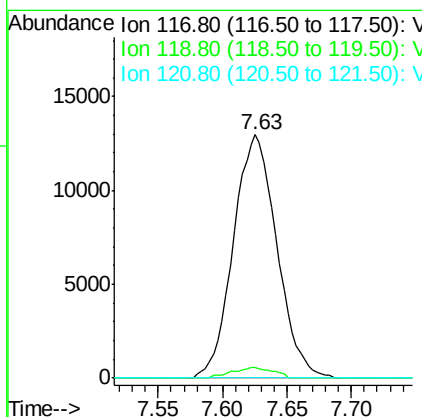
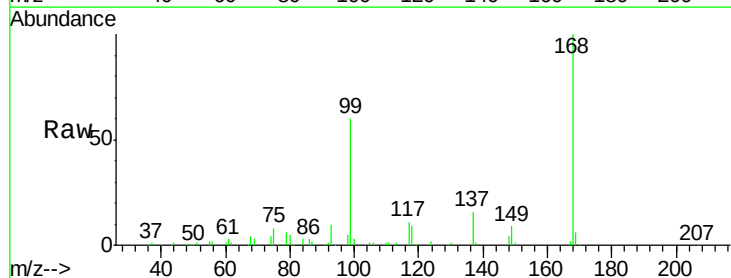
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-051920

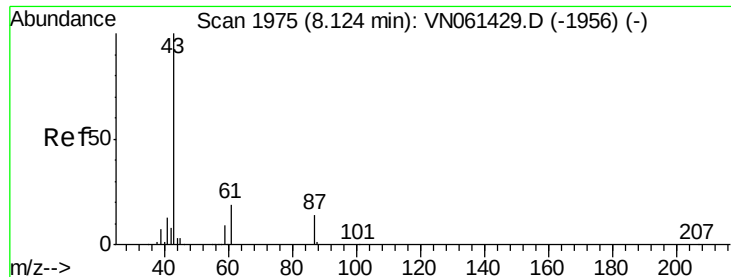
Tot Ion	75	Resp	22760
Ion Ratio	Lower	Upper	
75	100		
110	9.8	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.756 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061515.D
 Acq: 20 May 2020 20:57

Tgt Ion	117	Resp	30418
Ion Ratio	Lower	Upper	
117	100		
119	4.4	77.0	115.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 9.224 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

HD-02-051920

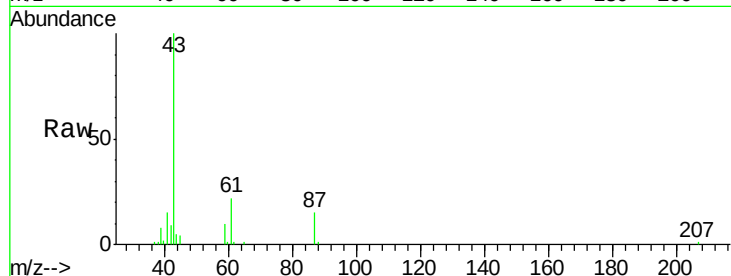
Tot Ion: 43 Resp: 71344

Ion Ratio Lower Upper

43 100

61 20.9 23.0 34.4#

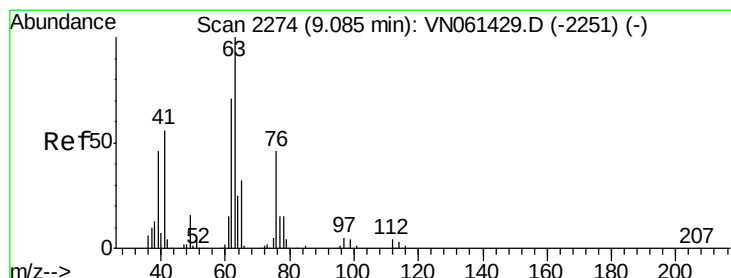
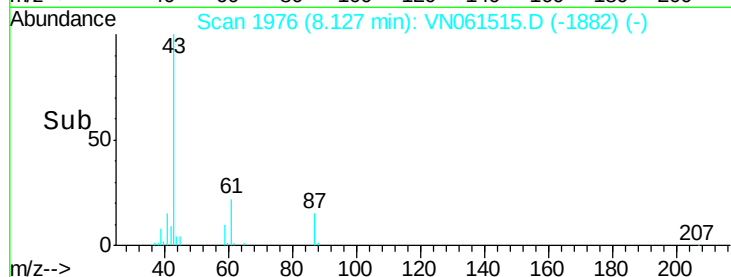
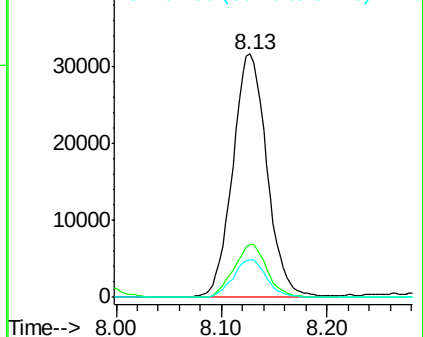
87 15.0 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-1956) (-)

Ion 61.00 (60.70 to 61.70): VN061429.D (-1956) (-)

Ion 87.00 (86.70 to 87.70): VN061429.D (-1956) (-)



#45

1,2-Dichloropropane

Concen: 0.423 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN061515.D

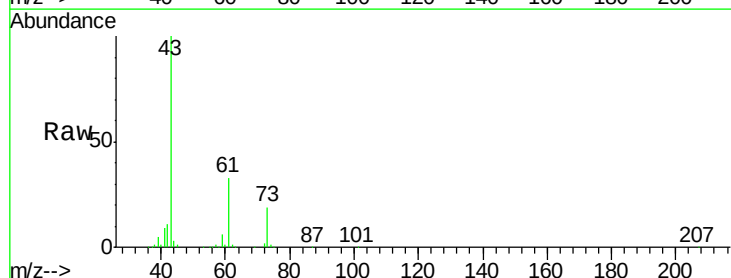
Acq: 20 May 2020 20:57

Tgt Ion: 63 Resp: 1560

Ion Ratio Lower Upper

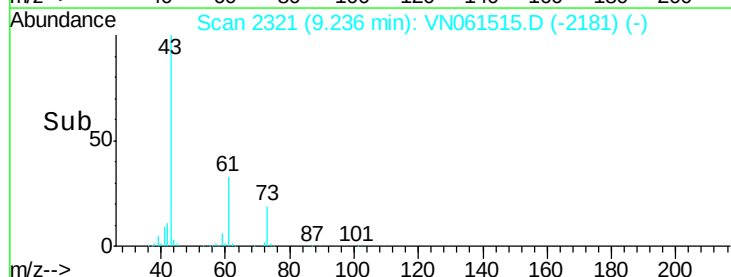
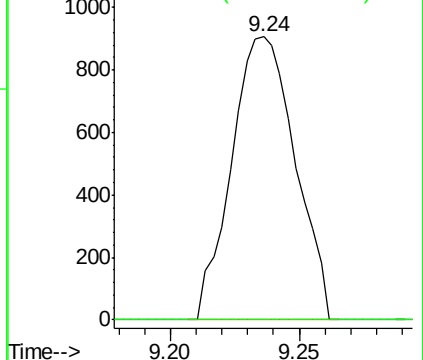
63 100

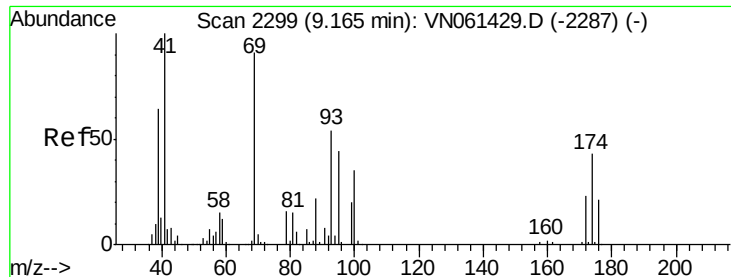
65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN061429.D (-2251) (-)

Ion 64.90 (64.60 to 65.60): VN061429.D (-2251) (-)

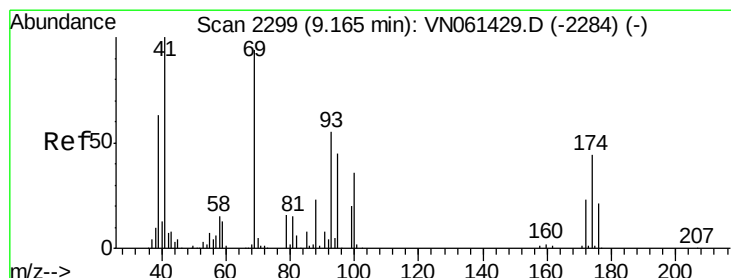
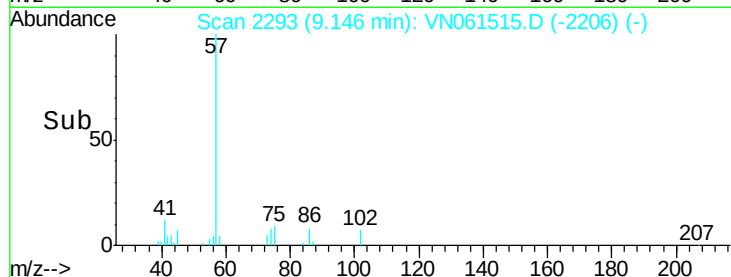
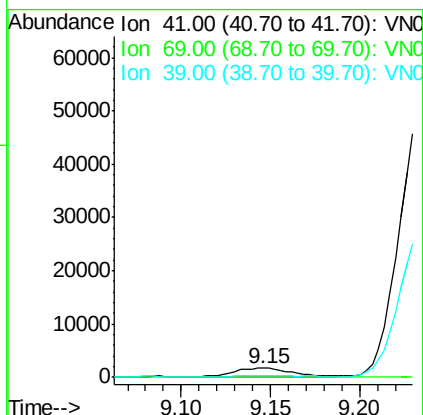
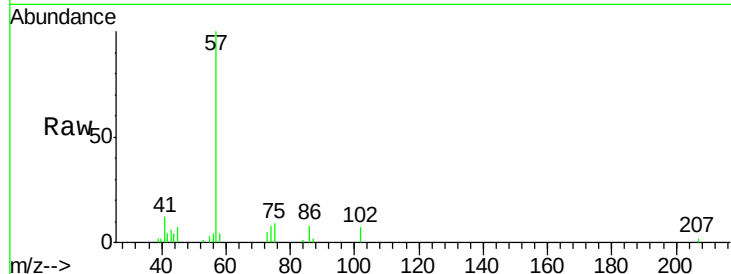




#48
Methvl methacrylate
Concen: 1.136 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

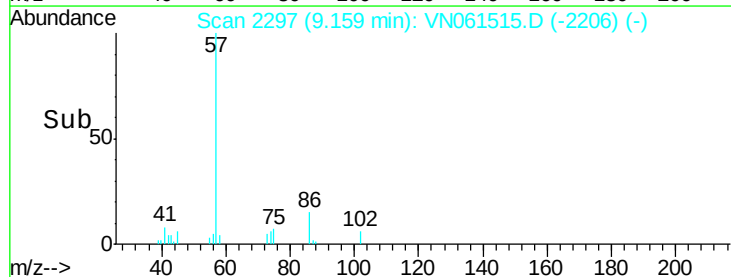
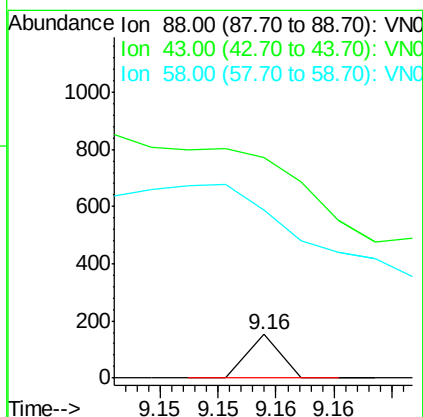
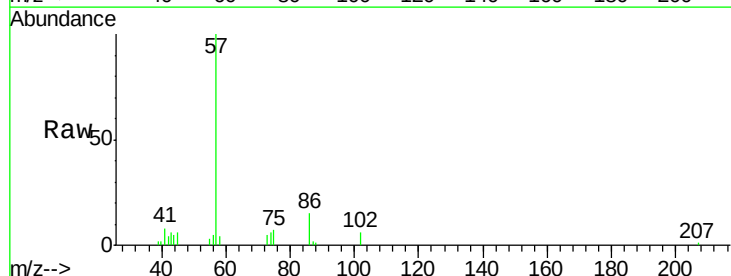
Instrument :
MSVOA_N
ClientSampleId :
HD-02-051920

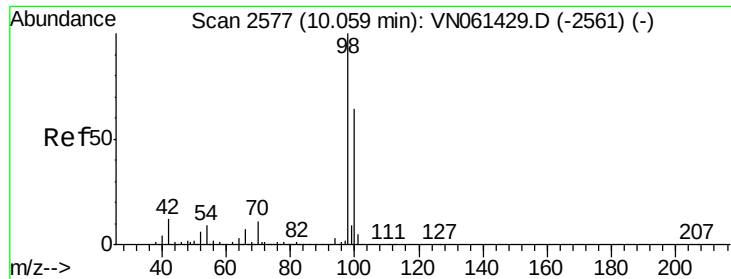
Tot Ion: 41 Resp: 4058
Ion Ratio Lower Upper
41 100
69 0.0 75.3 112.9#
39 0.0 52.6 79.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.16 min Scan# 2297
Delta R.T. -0.01 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 26.3 39.5#
58 4860.0 54.1 81.1#





#50

Toluene-d8

Concen: 51.826 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

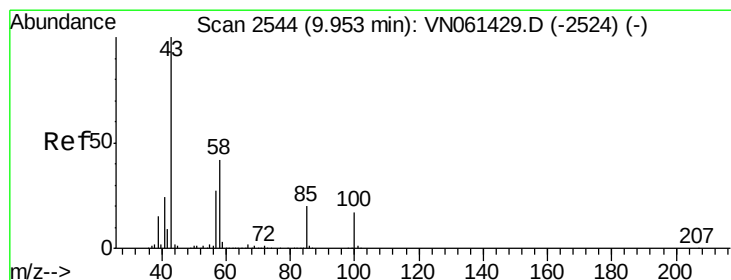
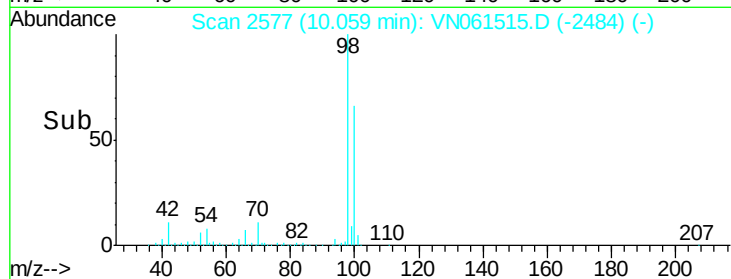
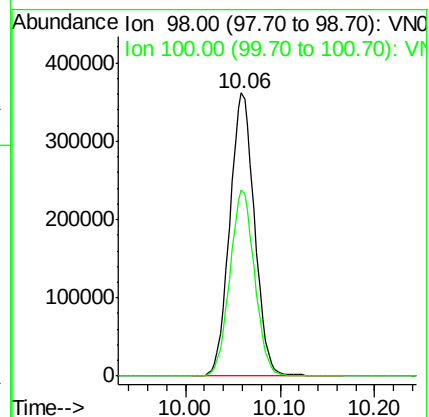
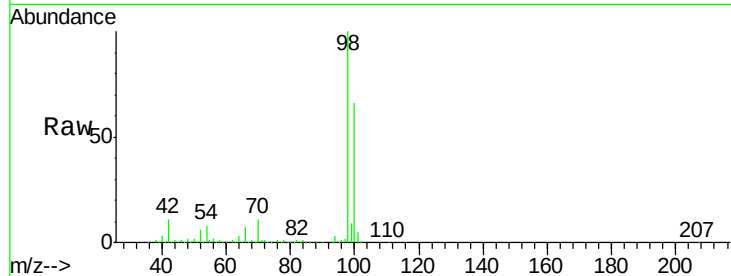
HD-02-051920

Tot Ion: 98 Resp: 658536

Ion Ratio Lower Upper

98 100

100 65.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.609 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061515.D

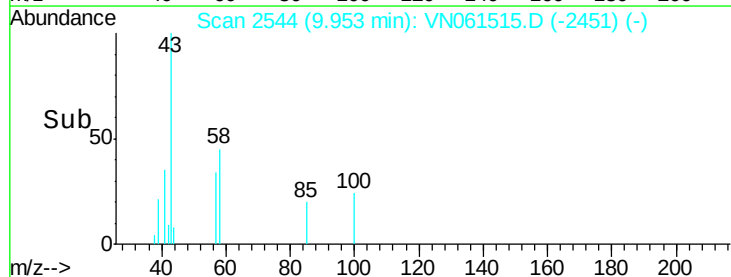
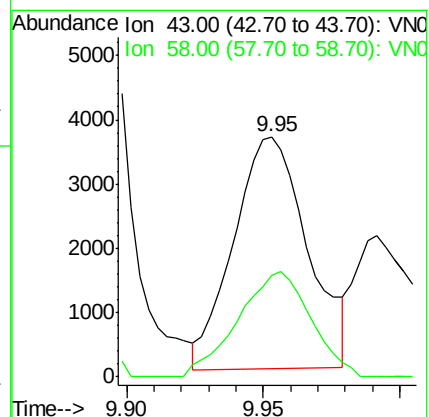
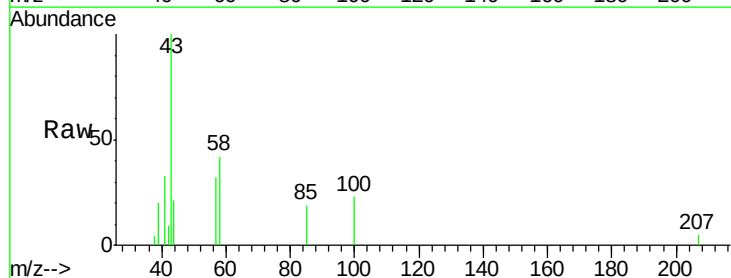
Acq: 20 May 2020 20:57

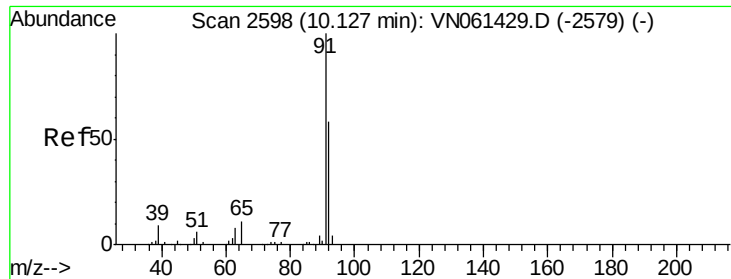
Tgt Ion: 43 Resp: 6780

Ion Ratio Lower Upper

43 100

58 44.5 33.4 50.2





#52

Toluene

Concen: 0.232 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

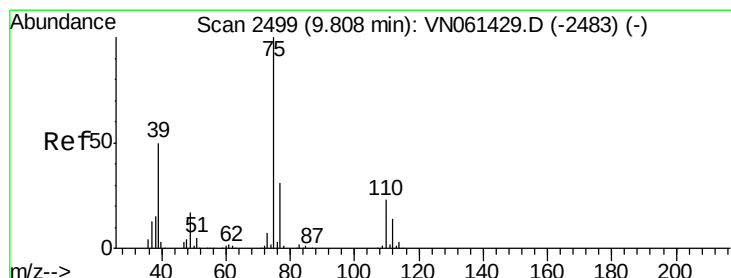
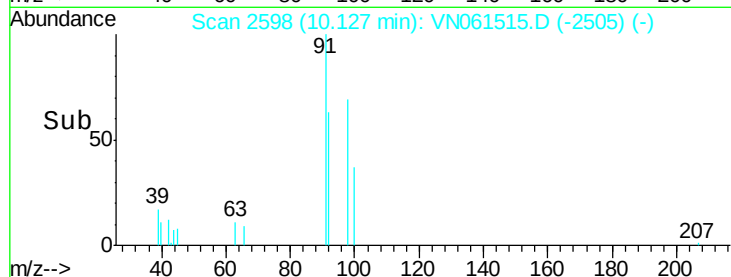
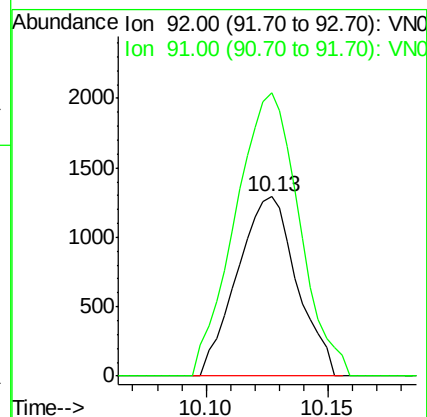
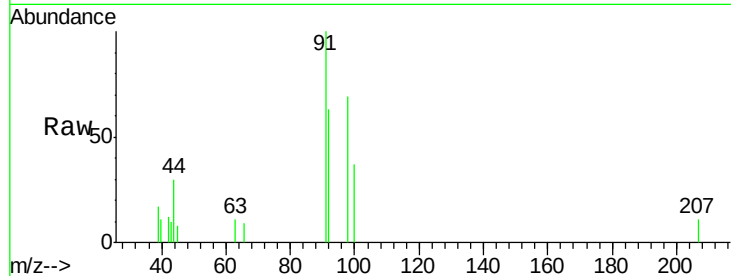
HD-02-051920

Tot Ion: 92 Resp: 2191

Ion Ratio Lower Upper

92 100

91 169.6 138.0 207.0



#54

cis-1,3-Dichloropropene

Concen: 6.069 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

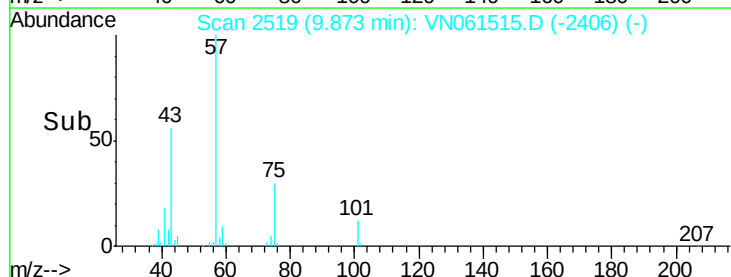
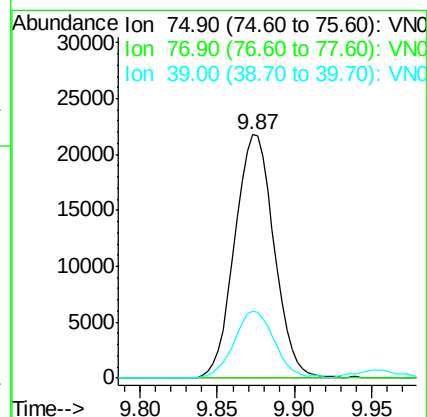
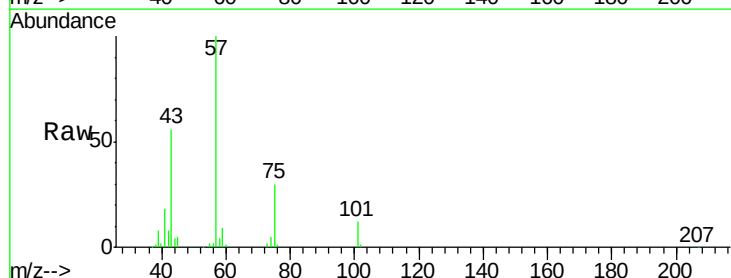
Tgt Ion: 75 Resp: 38521

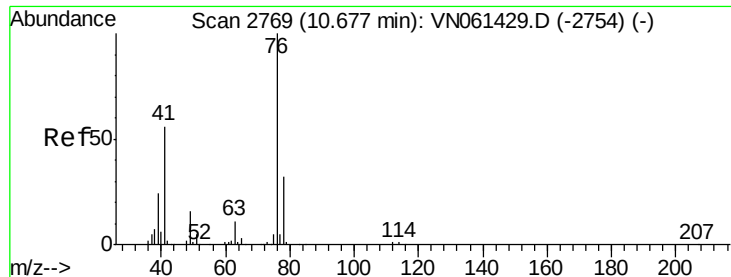
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 27.6 39.8 59.6#





#57

1,3-Dichloropropane

Concen: 0.971 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

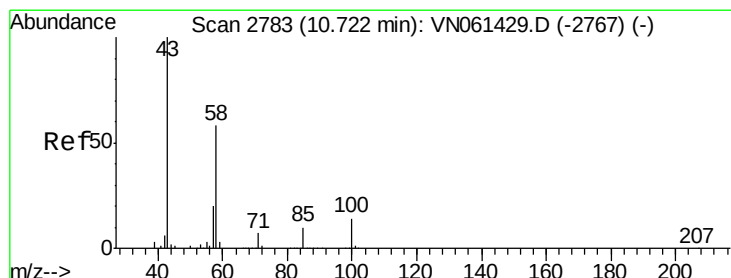
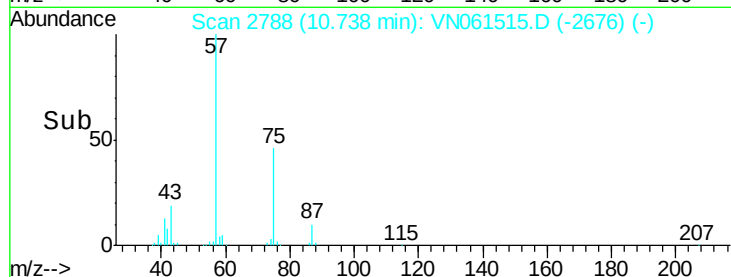
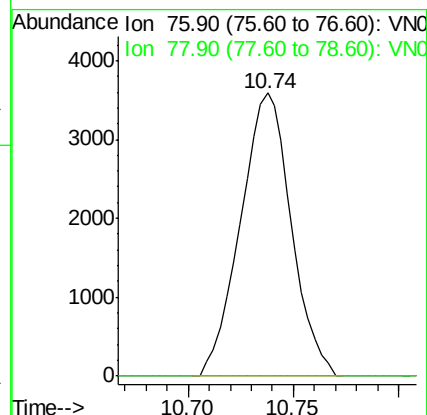
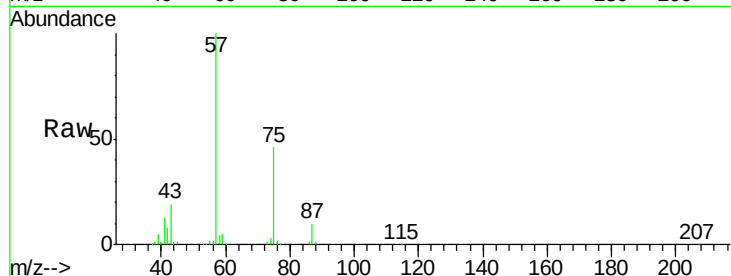
HD-02-051920

Tot Ion: 76 Resp: 6003

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 22.233 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061515.D

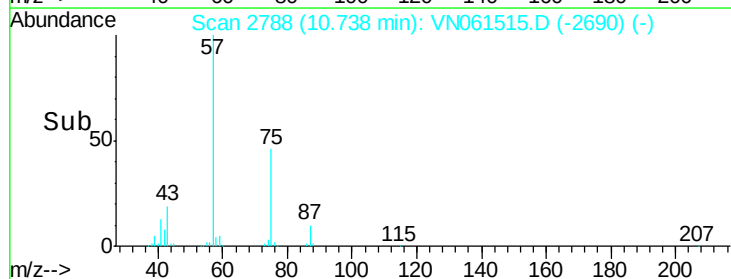
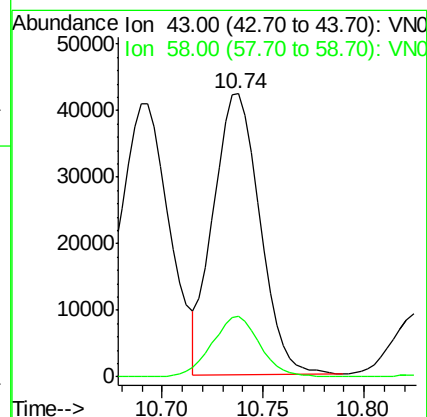
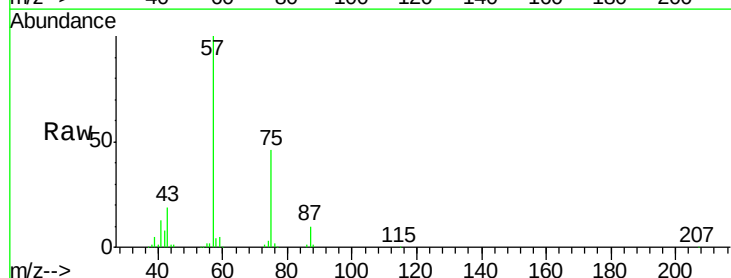
Acq: 20 May 2020 20:57

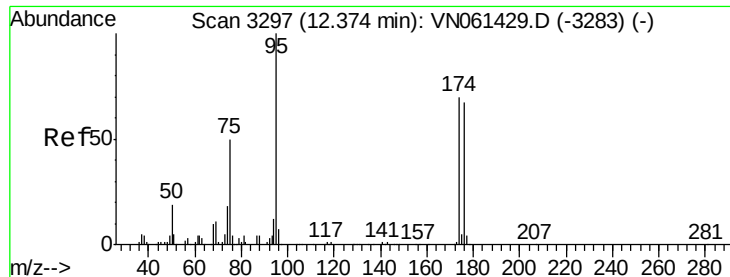
Tgt Ion: 43 Resp: 67773

Ion Ratio Lower Upper

43 100

58 22.1 29.2 87.6#





#62

4-Bromofluorobenzene

Concen: 54.079 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

HD-02-051920

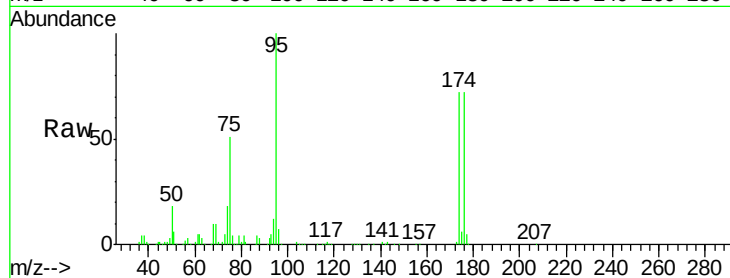
Tot Ion: 95 Resp: 256731

Ion Ratio Lower Upper

95 100

174 73.4 0.0 141.2

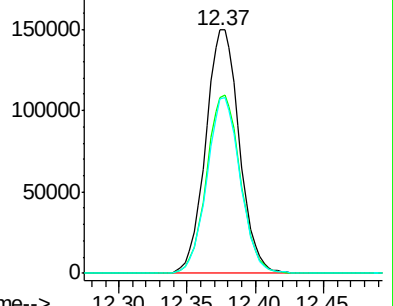
176 71.3 0.0 137.6



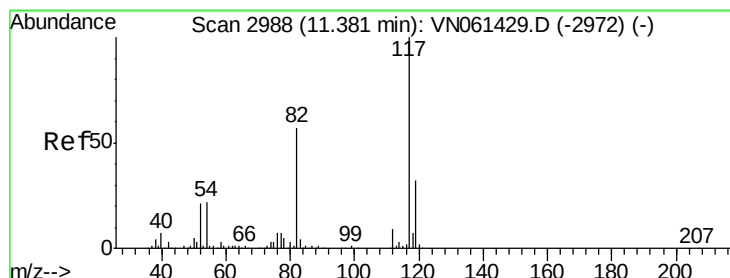
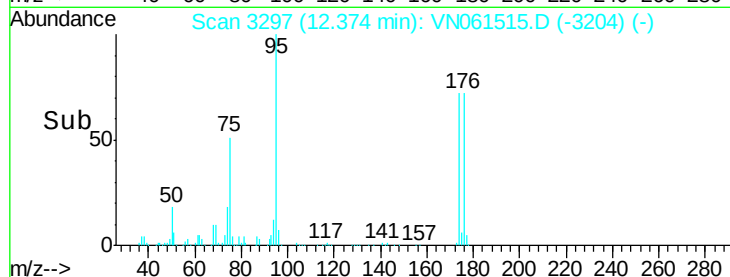
Abundance Ion 94.90 (94.60 to 95.60): VN061429.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061429.D (-3283) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

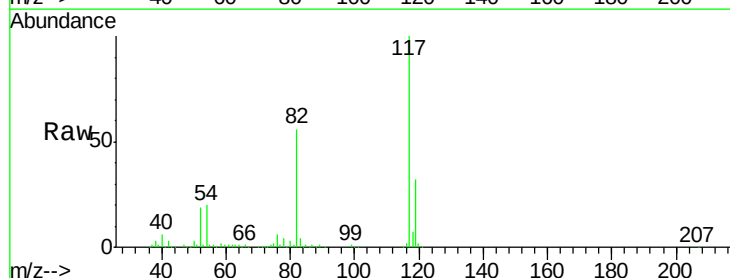
Tgt Ion: 117 Resp: 529558

Ion Ratio Lower Upper

117 100

82 55.6 45.2 67.8

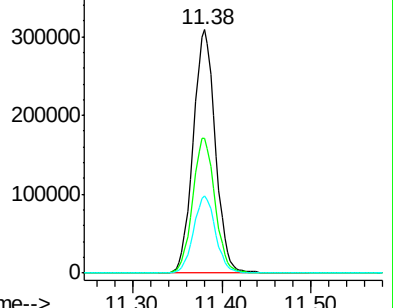
119 31.7 25.3 37.9



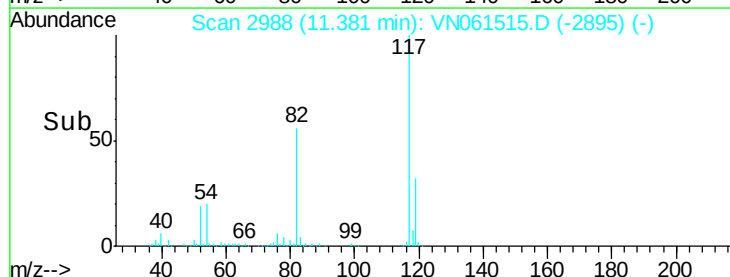
Abundance Ion 116.90 (116.60 to 117.60): VN061429.D (-2972) (-)

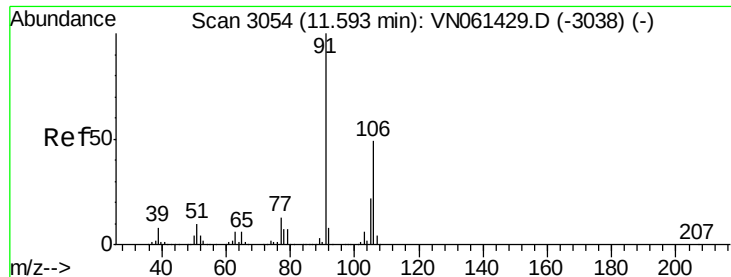
Ion 82.00 (81.70 to 82.70): VN061429.D (-2972) (-)

Ion 118.90 (118.60 to 119.60): VN061429.D (-2972) (-)



Time-->

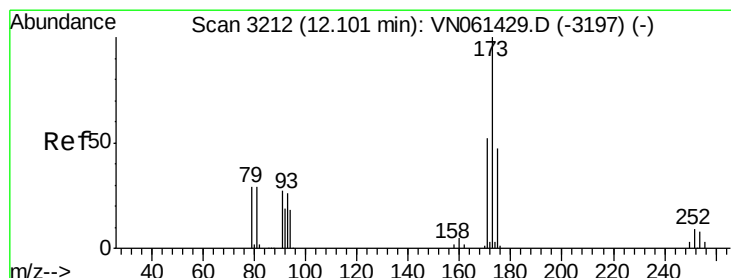
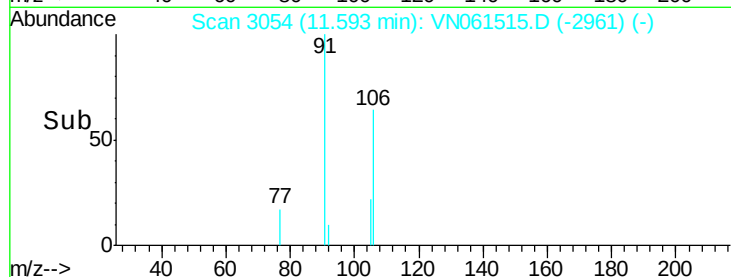
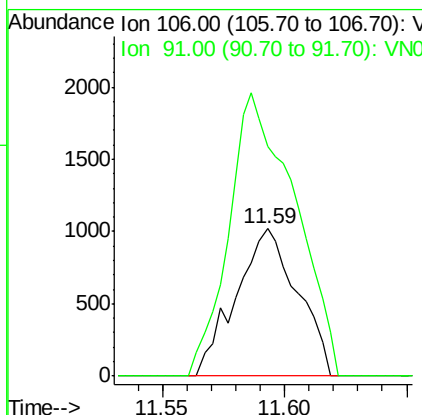
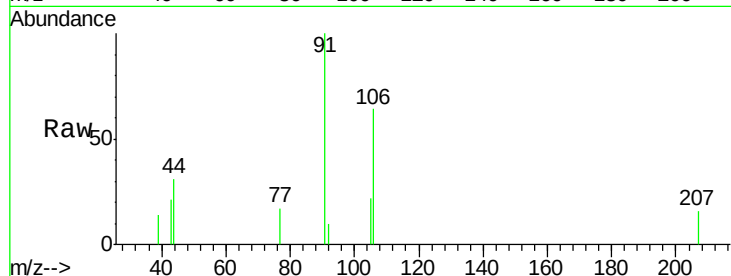




#68
m/p-Xvlenes
Concen: 0.238 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

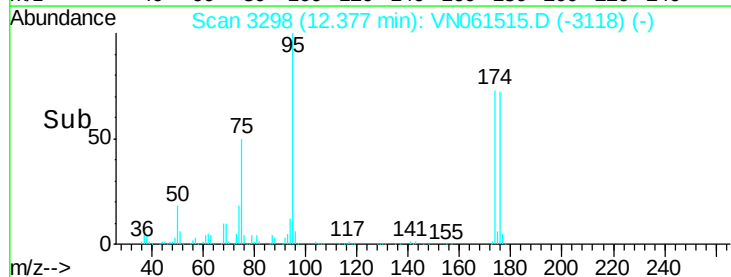
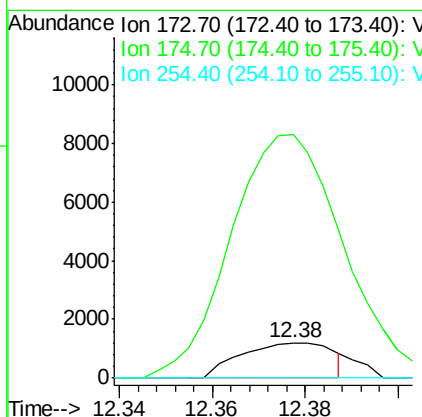
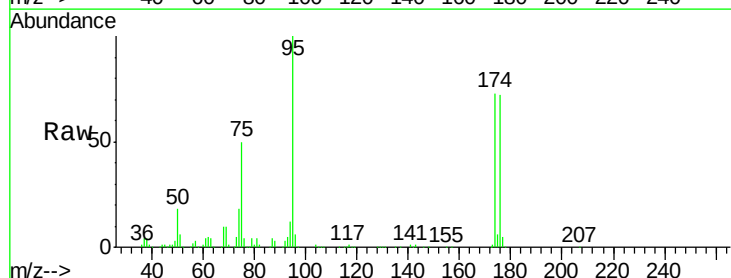
Instrument :
MSVOA_N
ClientSampleId :
HD-02-051920

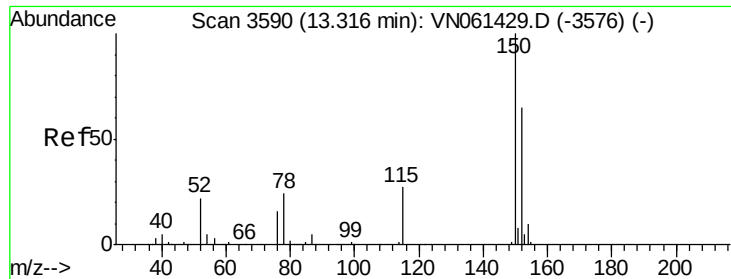
Tot Ion:106 Resp: 1782
Ion Ratio Lower Upper
106 100
91 206.5 163.0 244.6



#71
Bromoform
Concen: 2.550 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061515.D
Acq: 20 May 2020 20:57

Tgt Ion:173 Resp: 1663
Ion Ratio Lower Upper
173 100
175 727.9 23.9 71.8#
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: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

HD-02-051920

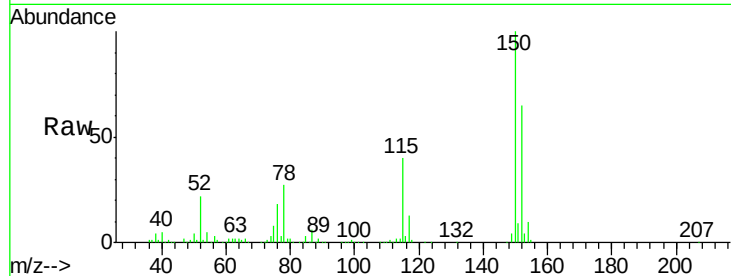
Tot Ion:152 Resp: 235872

Ion Ratio Lower Upper

152 100

115 60.5 30.9 92.5

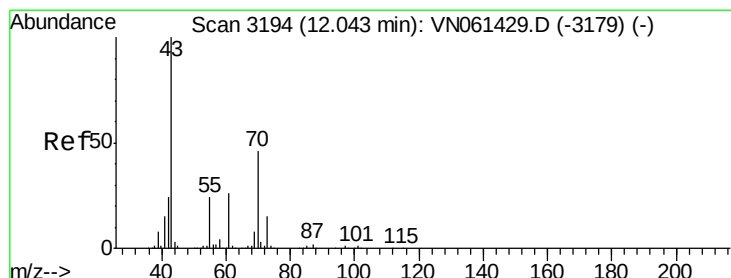
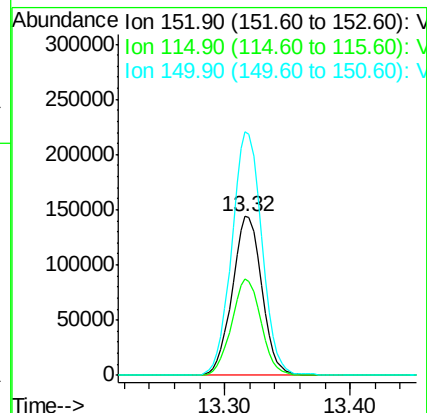
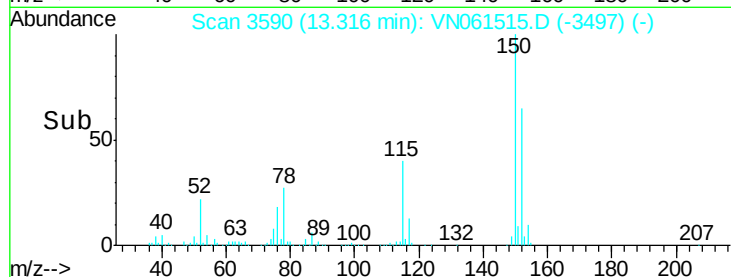
150 155.8 0.0 349.2



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: 0.487 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Tgt Ion: 43 Resp: 3373

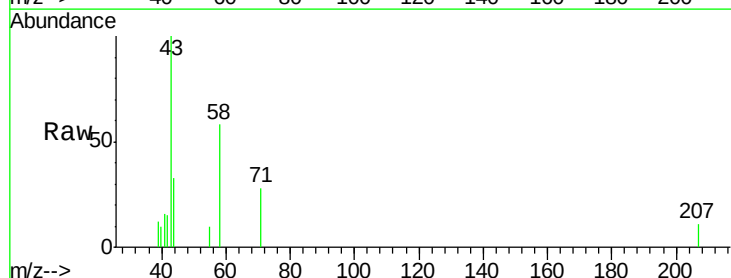
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 3.2 19.5 29.3#

61 0.0 20.8 31.2#

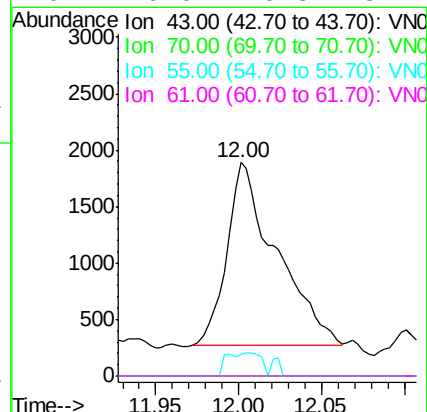
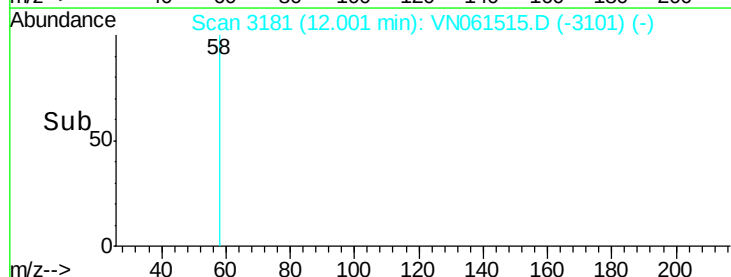


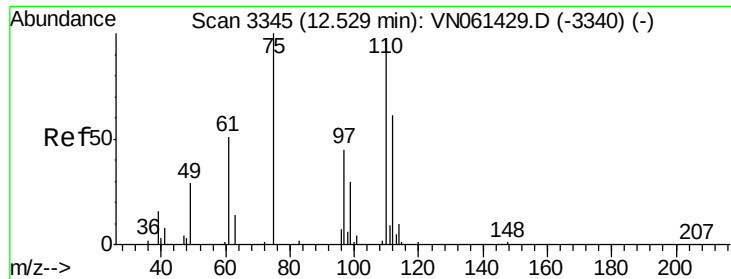
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

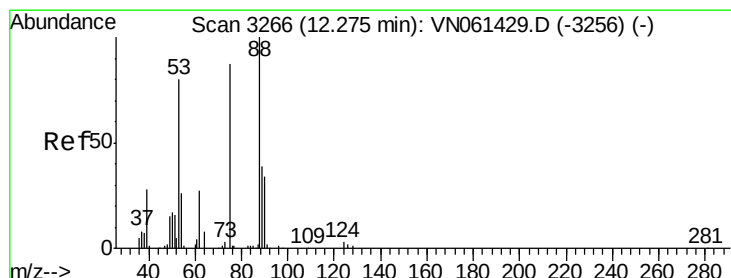
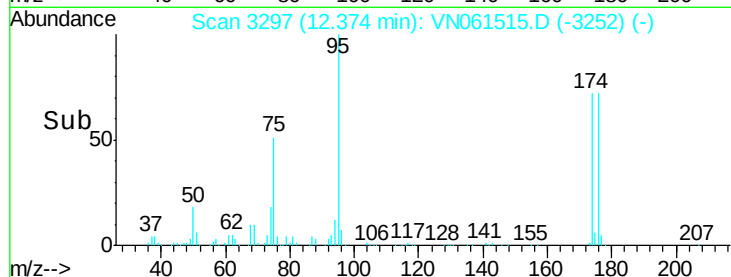
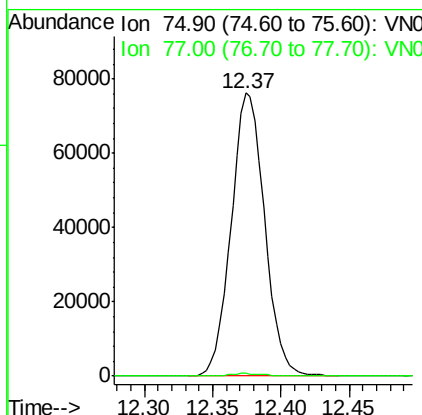
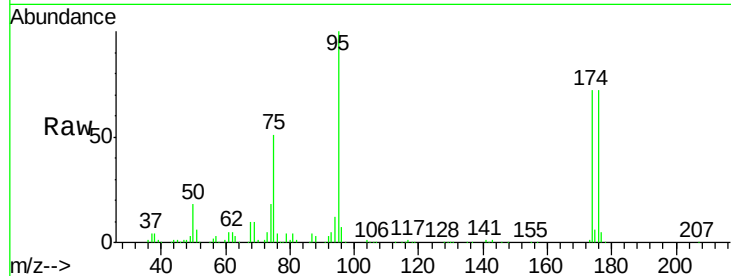




#76
 1,2,3-Trichloropropane
 Concen: 25.611 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. -0.15 min
 Lab File: VN061515.D
 Acq: 20 May 2020 20:57

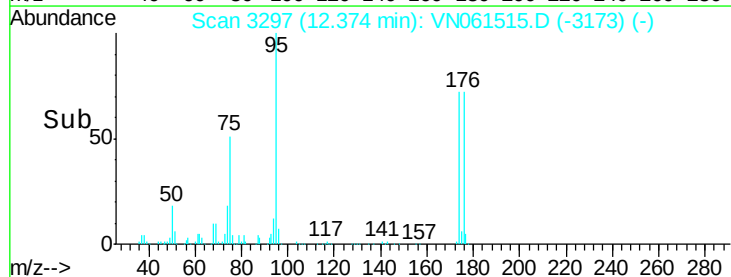
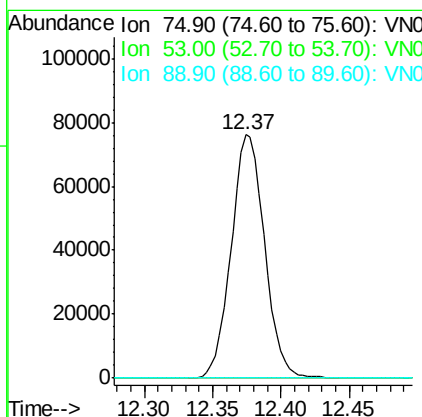
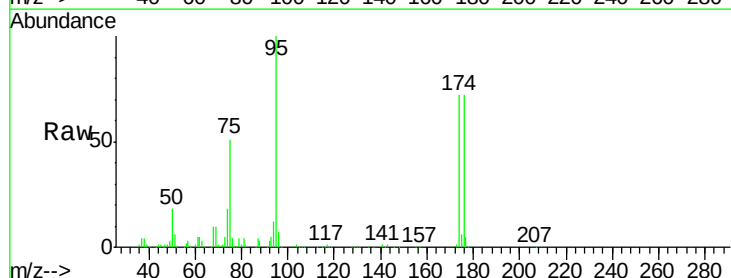
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-051920

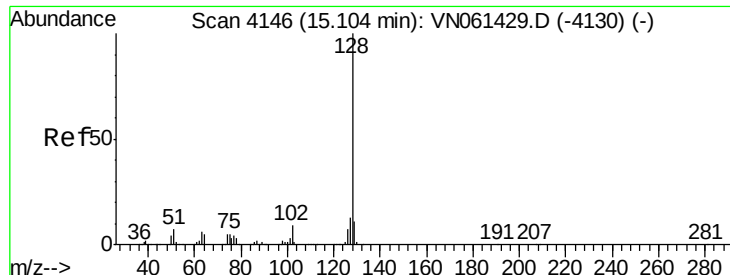
Tot Ion: 75 Resp: 129623
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.940 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. 0.10 min
 Lab File: VN061515.D
 Acq: 20 May 2020 20:57

Tgt Ion: 75 Resp: 129623
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.2 112.8#
 89 0.0 38.2 57.4#





#95

Naphthalene

Concen: 0.369 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061515.D

Acq: 20 May 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

HD-02-051920

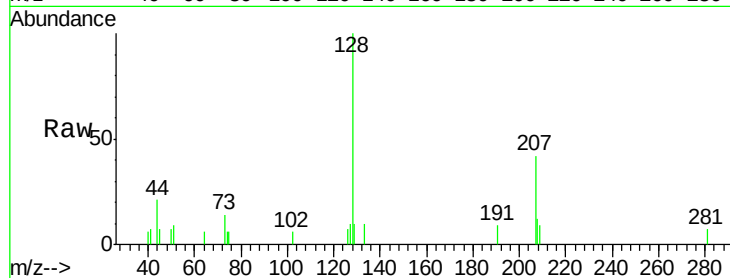
Tot Ion:128 Resp: 4595

Ion Ratio Lower Upper

128 100

127 9.1 10.1 15.1#

129 8.0 8.6 13.0#



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

