

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051920\
 Data File : VN061495.D
 Acq On : 19 May 2020 19:50
 Operator : JC/MD
 Sample : L2645-06DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-051320DL

Quant Time: May 20 14:37:01 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	282704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	533608	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	520676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	245681	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	198759	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
35) Dibromofluoromethane	7.55	113	147128	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
50) Toluene-d8	10.06	98	655620	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.38	95	264536	54.61	ug/l	0.00
Spiked Amount			Recovery	=	109.22%	

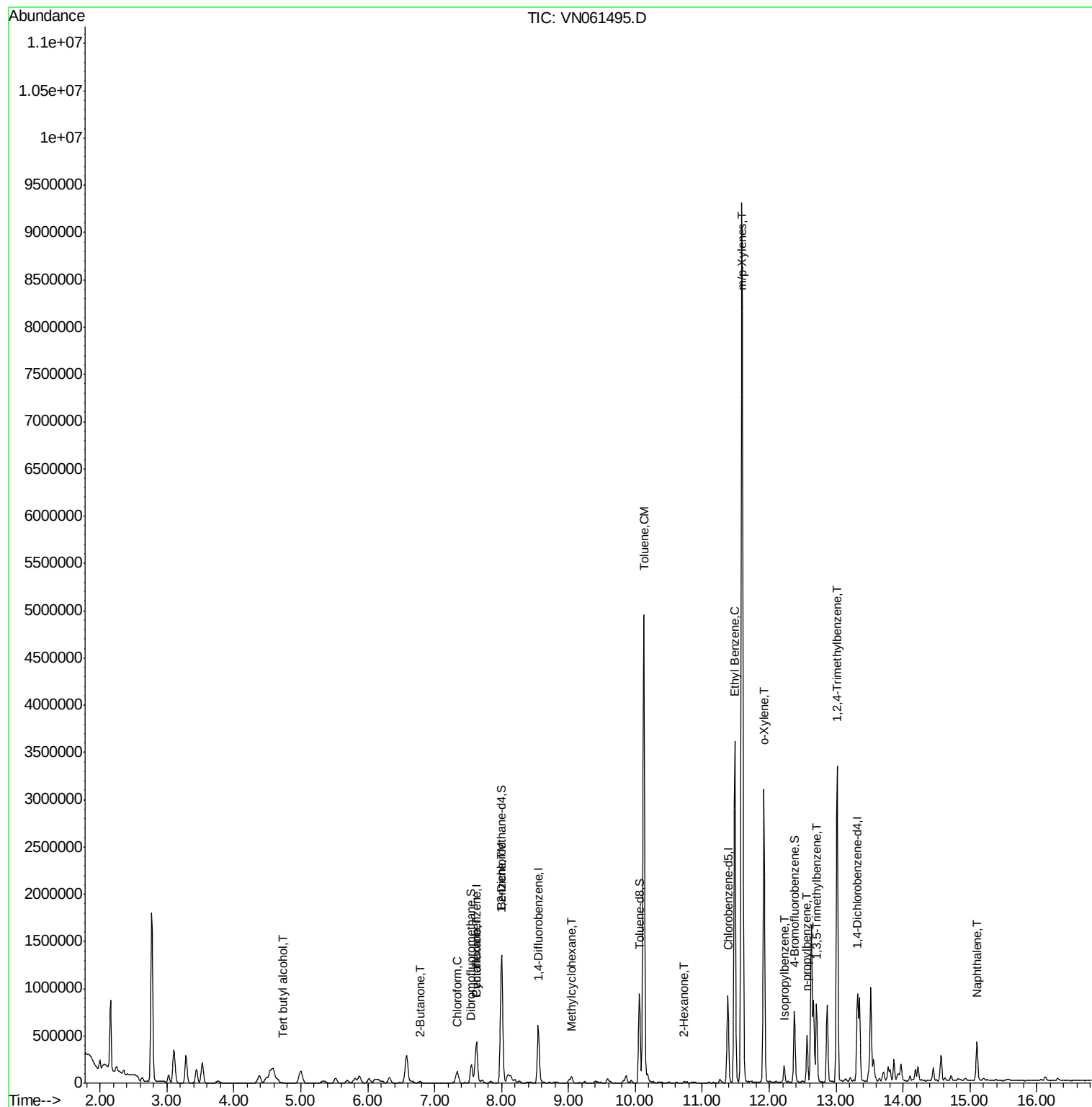
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	8199	16.865	ug/l #	73
25) 2-Butanone	6.78	43	11946	6.218	ug/l	99
30) Chloroform	7.33	83	93306	14.453	ug/l	96
31) Cyclohexane	7.62	56	62228	8.996	ug/l #	85
39) Methylcyclohexane	9.05	83	31653	5.194	ug/l	97
40) Benzene	8.00	78	1347578	89.622	ug/l	99
52) Toluene	10.13	92	2356604	244.121	ug/l	92
59) 2-Hexanone	10.73	43	5725	1.841	ug/l	89
67) Ethyl Benzene	11.48	91	2646694	136.557	ug/l	95
68) m/p-Xylenes	11.59	106	3382847	459.831	ug/l	76
69) o-Xylene	11.92	106	902229	126.732	ug/l	96
73) Isopropylbenzene	12.22	105	120971	6.133	ug/l	98
78) n-propylbenzene	12.56	91	401974	17.887	ug/l	99
80) 1,3,5-Trimethylbenzene	12.71	105	463214	28.683	ug/l	97
84) 1,2,4-Trimethylbenzene	13.01	105	1911317	118.261	ug/l	97
95) Naphthalene	15.10	128	348788	26.927	ug/l	99

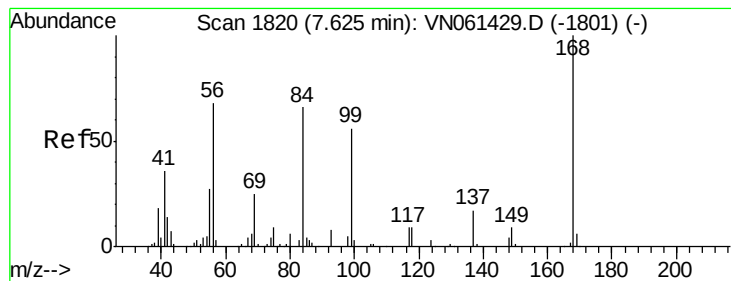
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

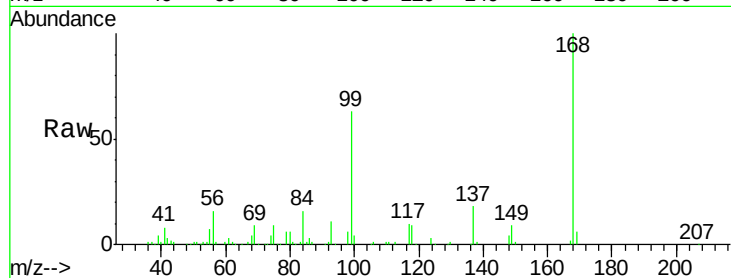
DUP-051320DL

Tot Ion:168 Resp: 282704

Ion Ratio Lower Upper

168 100

99 62.5 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

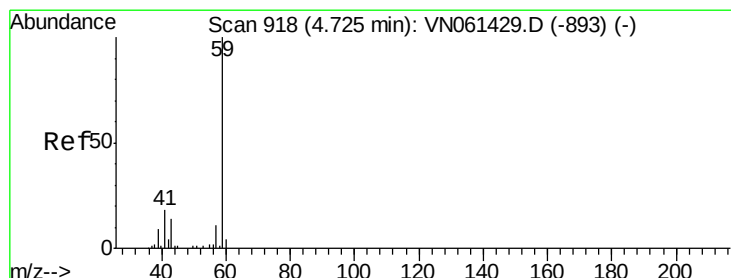
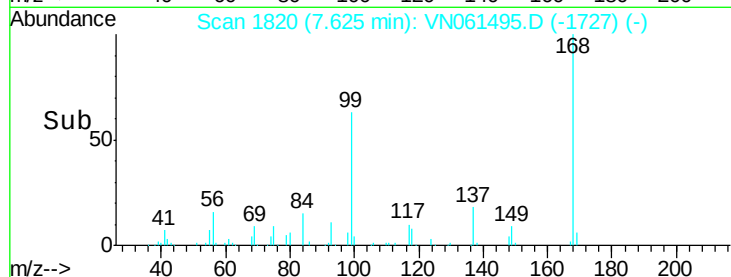
7.63

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 16.865 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.01 min

Lab File: VN061495.D

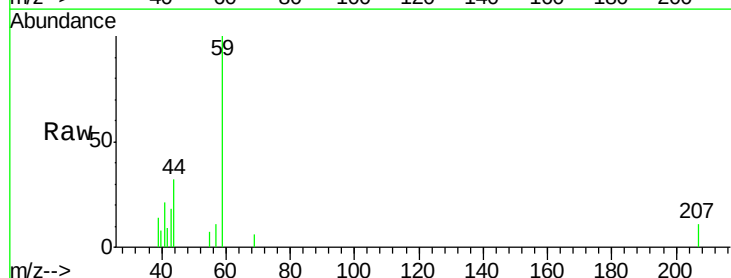
Acq: 19 May 2020 19:50

Tgt Ion: 59 Resp: 8199

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

3000

2500

2000

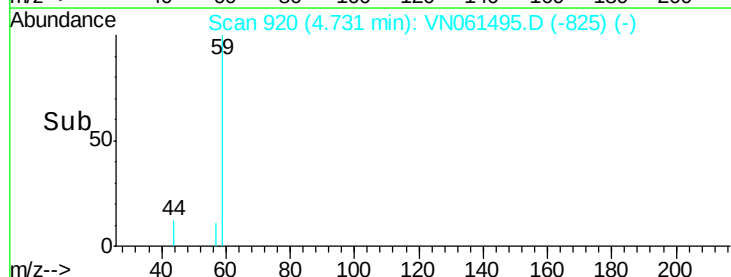
1500

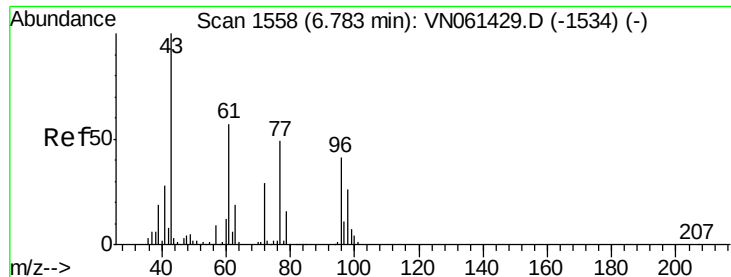
1000

500

0

Time--> 4.65 4.70 4.75 4.80





#25

2-Butanone

Concen: 6.218 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

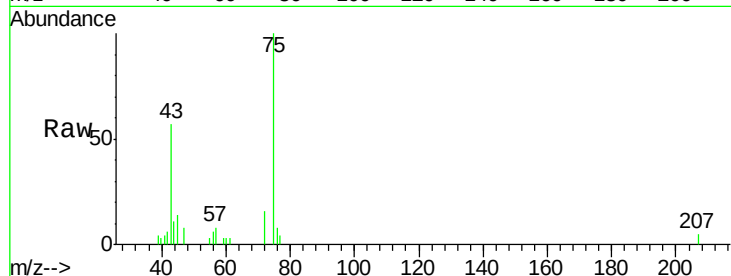
DUP-051320DL

Tot Ion: 43 Resp: 11946

Ion Ratio Lower Upper

43 100

72 28.3 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.78

4000

3000

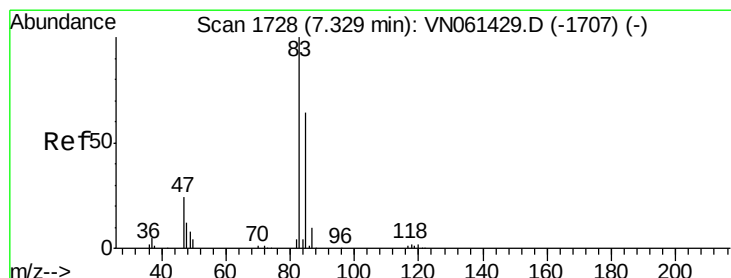
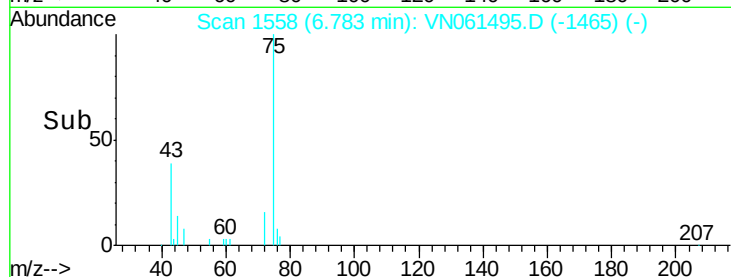
2000

1000

0

6.70 6.75 6.80 6.85 6.90

Time-->



#30

Chloroform

Concen: 14.453 ug/l

RT: 7.33 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VN061495.D

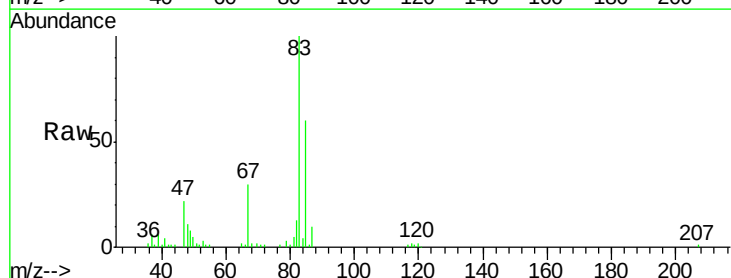
Acq: 19 May 2020 19:50

Tgt Ion: 83 Resp: 93306

Ion Ratio Lower Upper

83 100

85 60.2 51.0 76.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

7.33

40000

30000

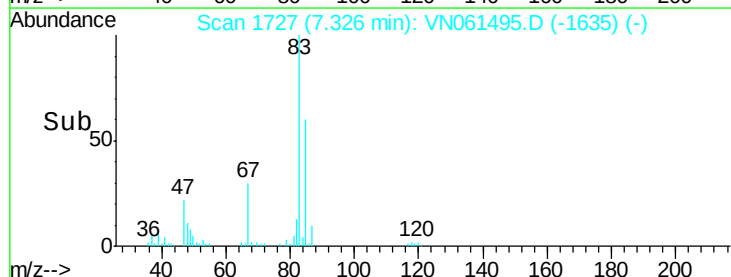
20000

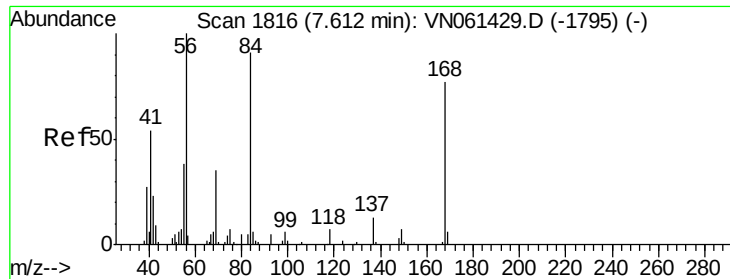
10000

0

7.20 7.30 7.40

Time-->

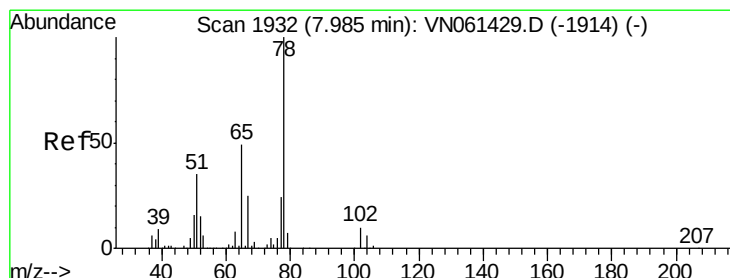
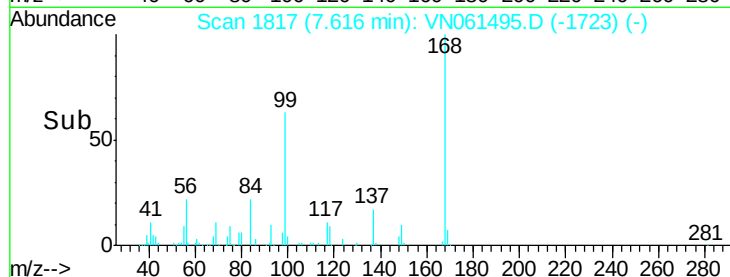
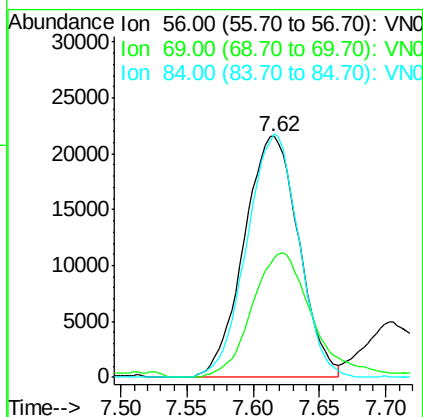
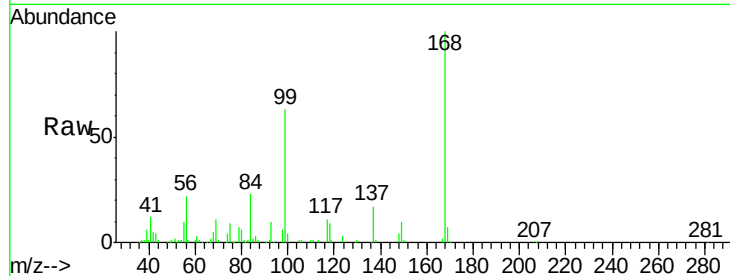




#31
Cyclohexane
Concen: 8.996 ug/l
RT: 7.62 min Scan# 1817
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

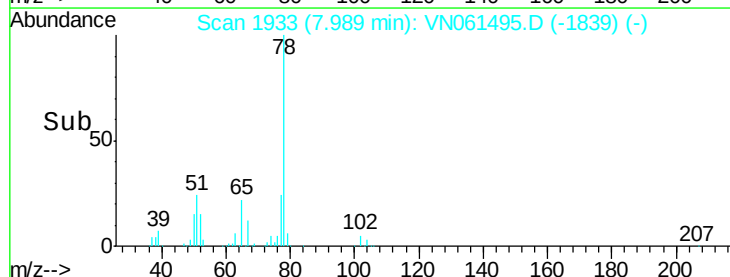
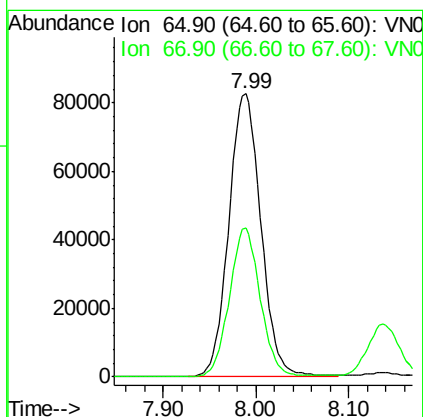
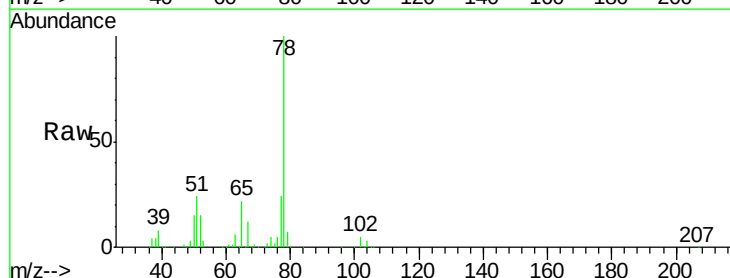
Instrument :
MSVOA_N
ClientSampleId :
DUP-051320DL

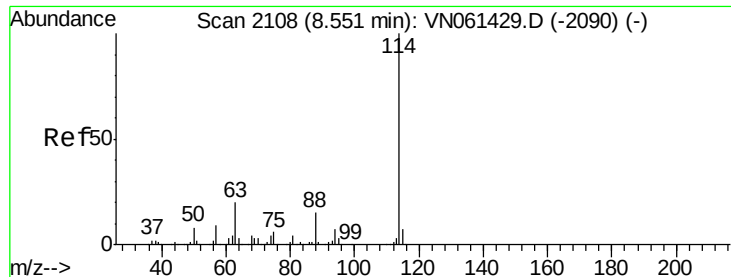
Tot Ion: 56 Resp: 62228
Ion Ratio Lower Upper
56 100
69 49.5 27.8 41.6#
84 101.0 72.7 109.1



#33
1,2-Dichloroethane-d4
Concen: 47.108 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

Tgt Ion: 65 Resp: 198759
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

DUP-051320DL

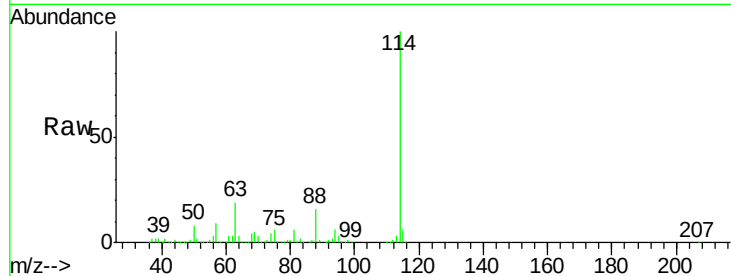
Tot Ion:114 Resp: 533608

Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.8

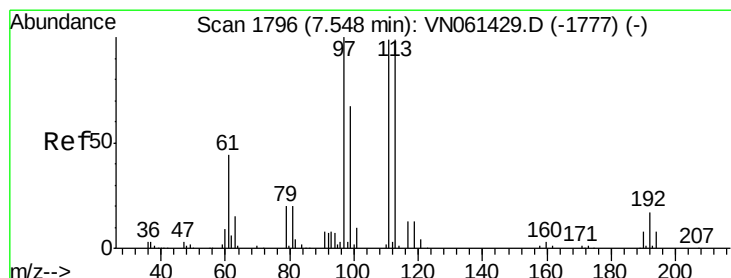
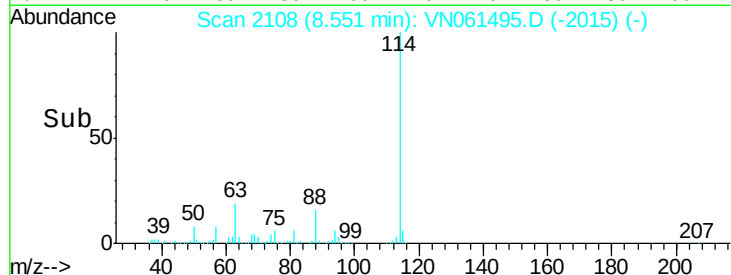
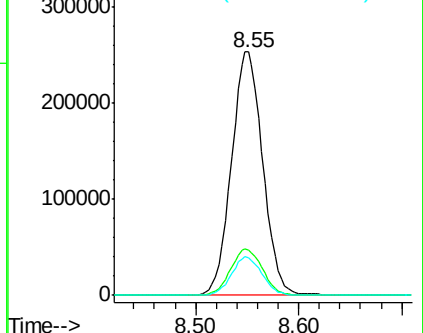
88 15.6 0.0 30.8



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: 52.632 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

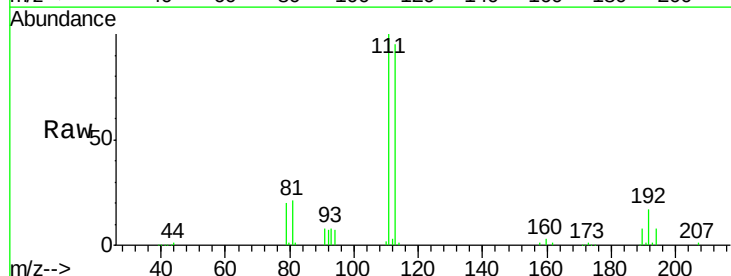
Tgt Ion:113 Resp: 147128

Ion Ratio Lower Upper

113 100

111 103.6 80.6 121.0

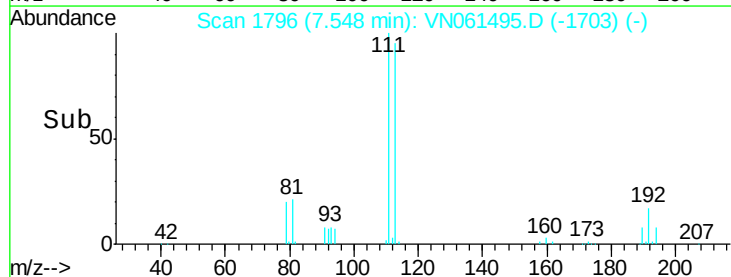
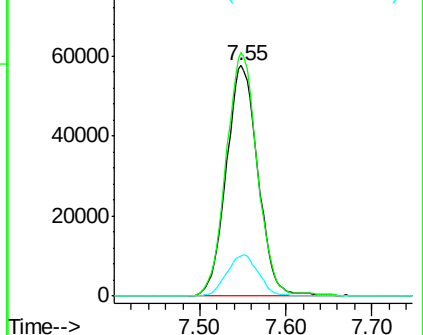
192 17.8 13.2 19.8

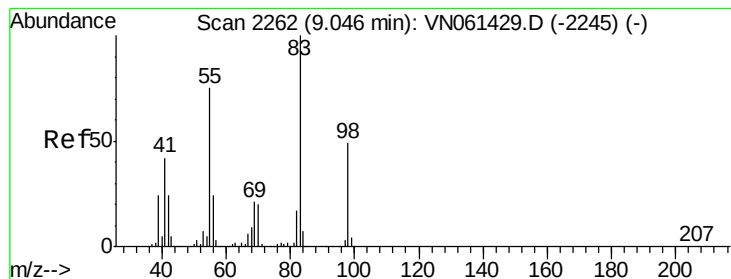


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#39

Methylvlcyclohexane

Concen: 5.194 ug/l

RT: 9.05 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

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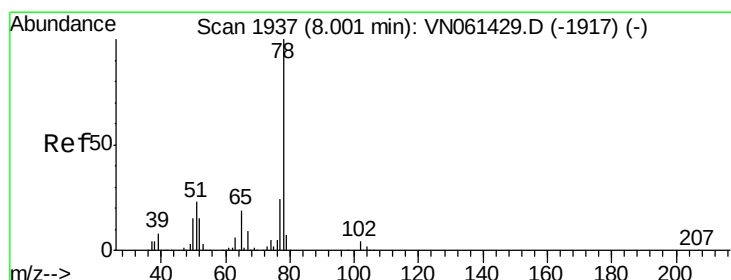
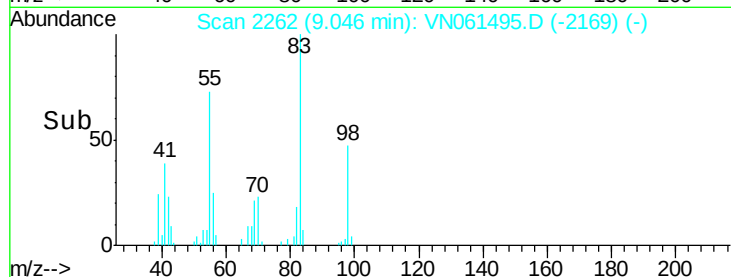
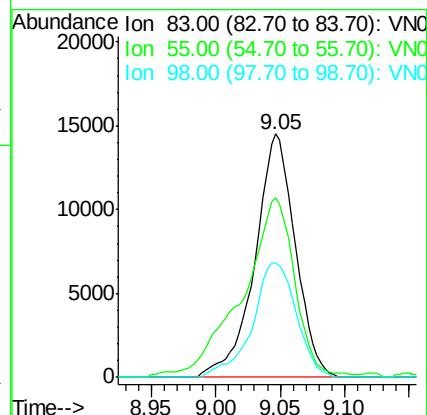
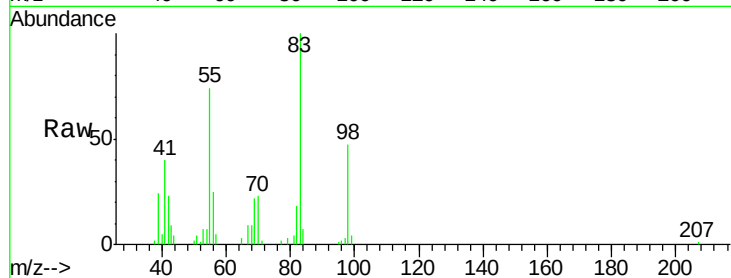
Tot Ion: 83 Resp: 31653

Ion Ratio Lower Upper

83 100

55 71.8 59.7 89.5

98 46.8 38.9 58.3



#40

Benzene

Concen: 89.622 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061495.D

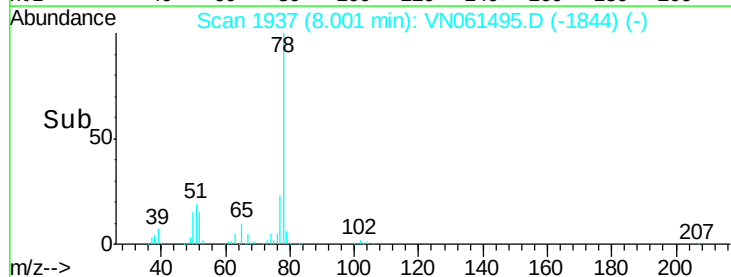
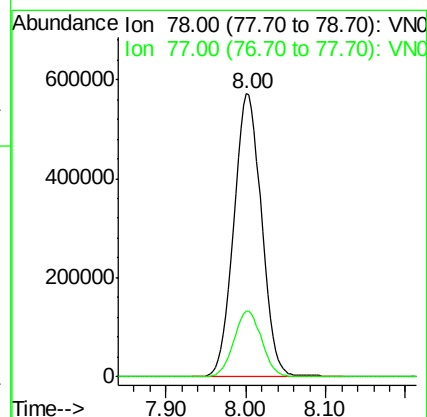
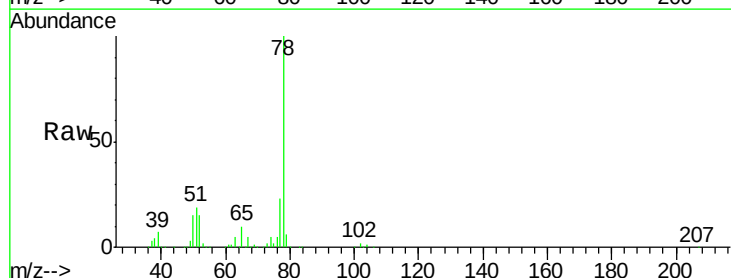
Acq: 19 May 2020 19:50

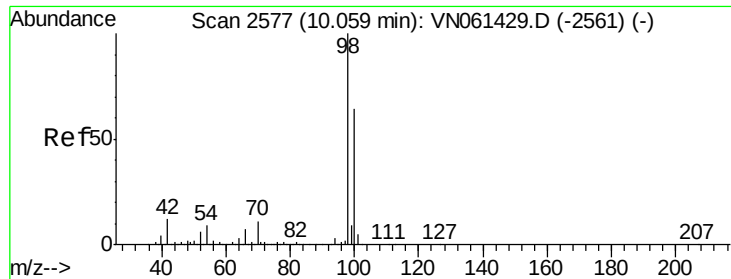
Tgt Ion: 78 Resp: 1347578

Ion Ratio Lower Upper

78 100

77 23.2 19.1 28.7

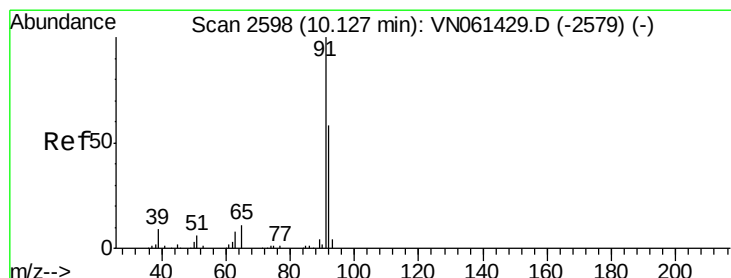
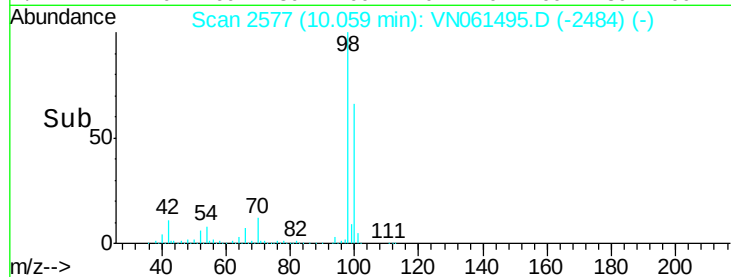
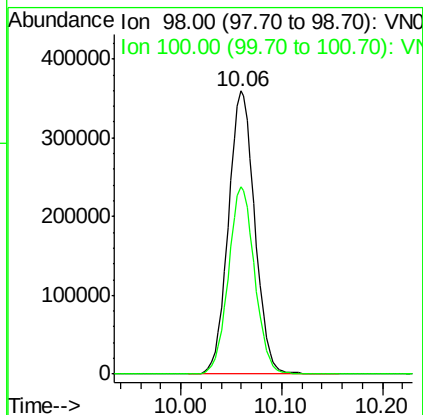
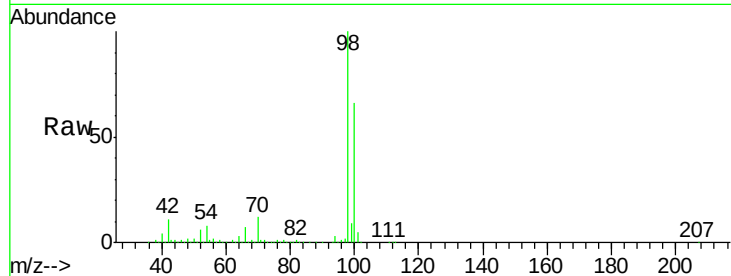




#50
Toluene-d8
Concen: 50.565 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

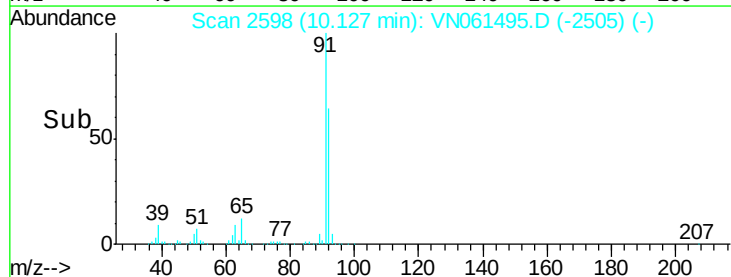
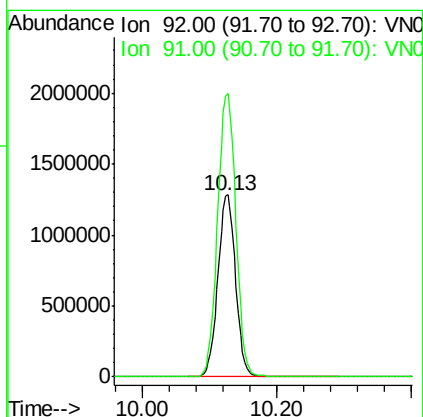
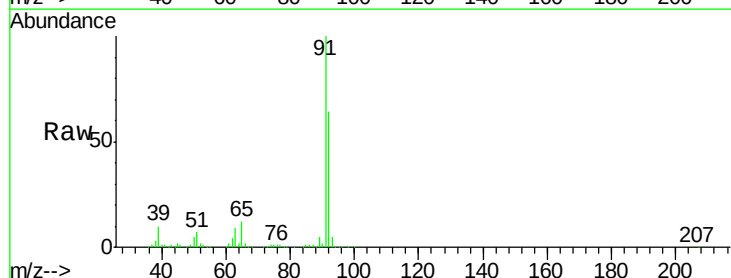
Instrument :
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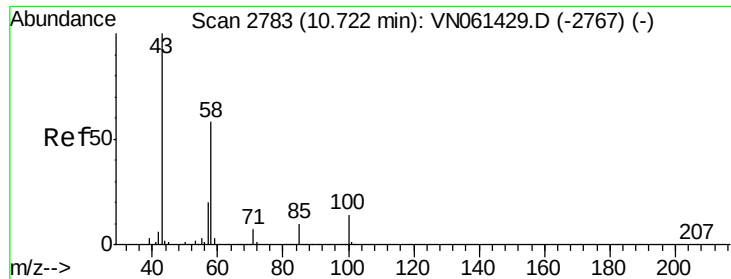
Tot Ion: 98 Resp: 655620
Ion Ratio Lower Upper
98 100
100 65.7 51.8 77.8



#52
Toluene
Concen: 244.121 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

Tgt Ion: 92 Resp: 2356604
Ion Ratio Lower Upper
92 100
91 161.7 138.0 207.0





#59

2-Hexanone

Concen: 1.841 ug/l

RT: 10.73 min Scan# 2785

Delta R.T. 0.01 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

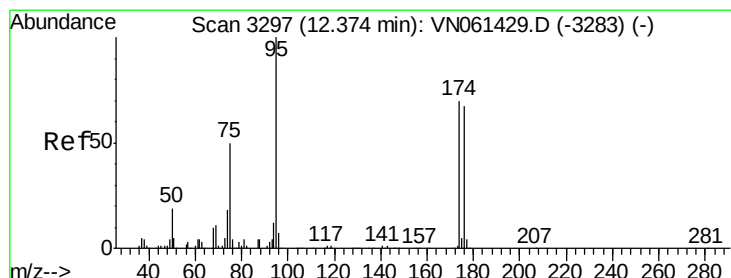
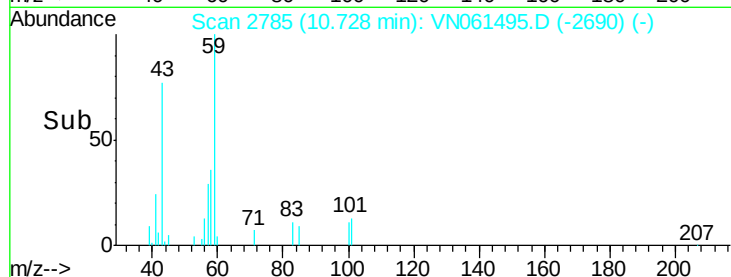
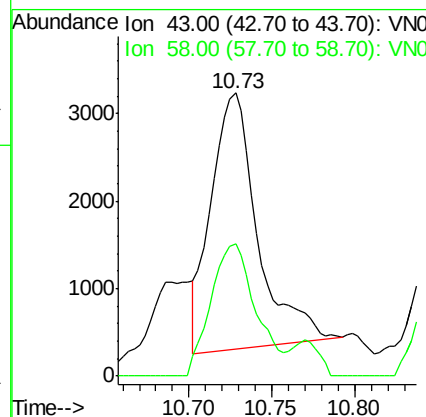
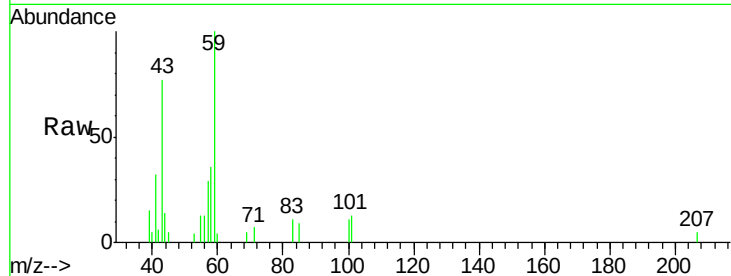
DUP-051320DL

Tot Ion: 43 Resp: 5725

Ion Ratio Lower Upper

43 100

58 50.0 29.2 87.6



#62

4-Bromofluorobenzene

Concen: 54.610 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

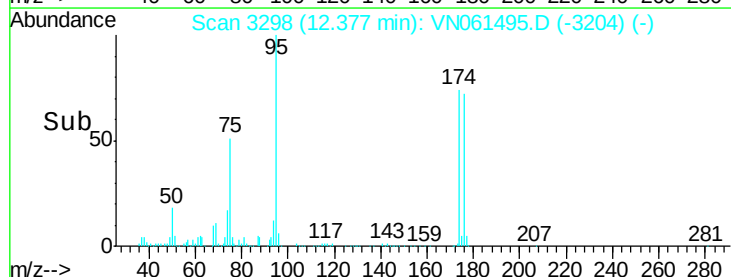
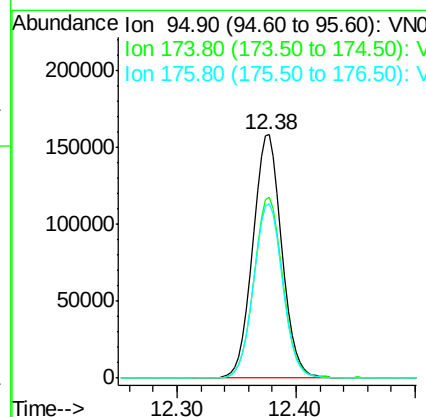
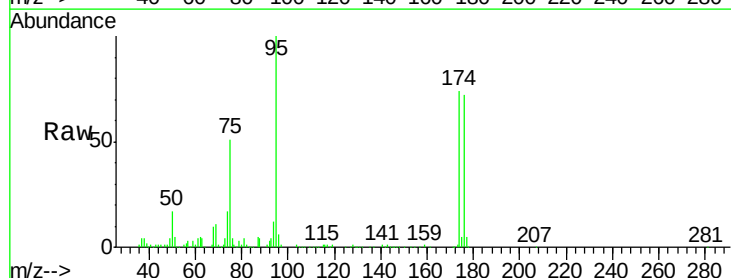
Tgt Ion: 95 Resp: 264536

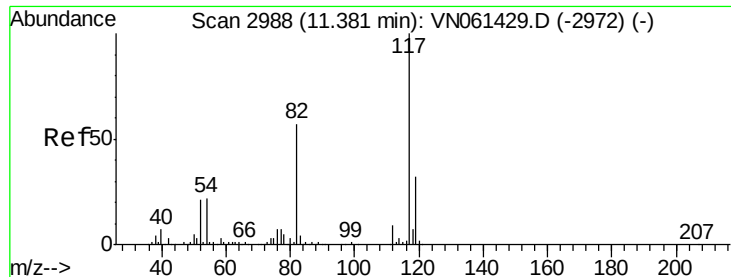
Ion Ratio Lower Upper

95 100

174 74.1 0.0 141.2

176 72.4 0.0 137.6

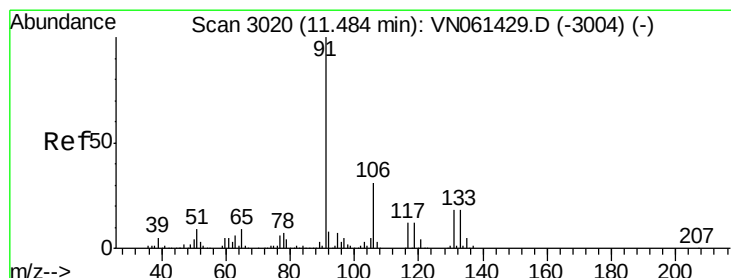
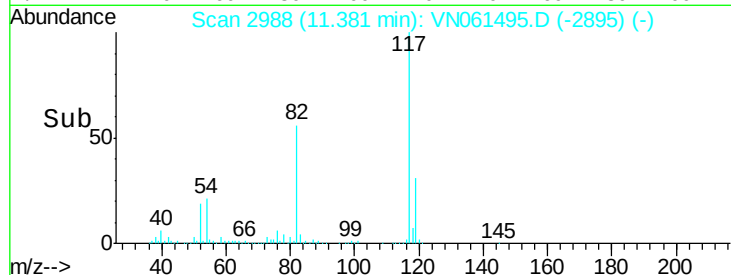
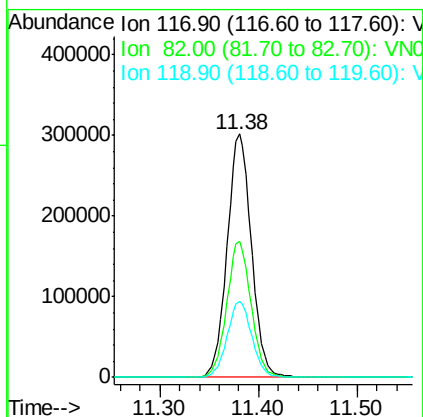
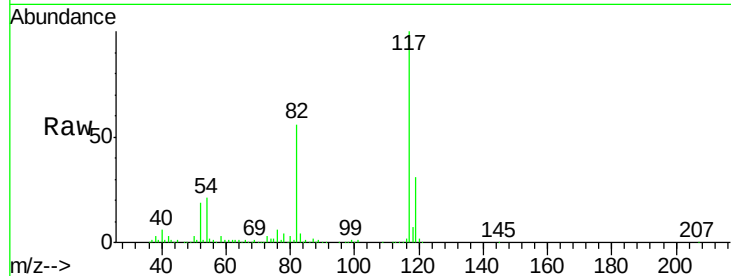




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

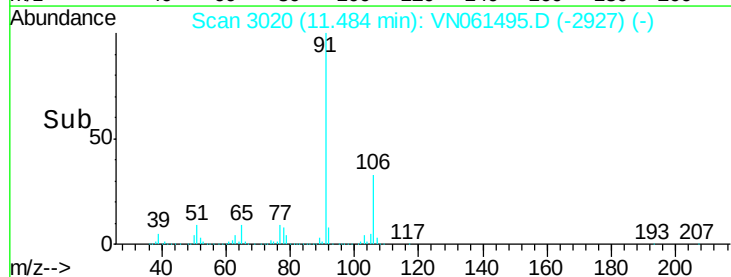
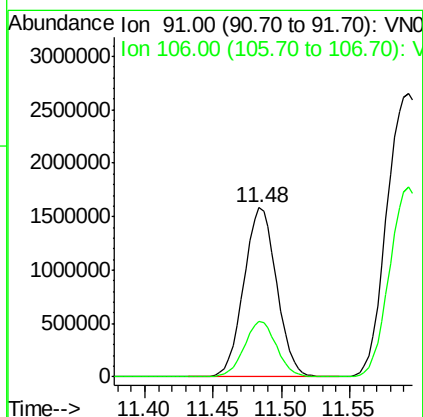
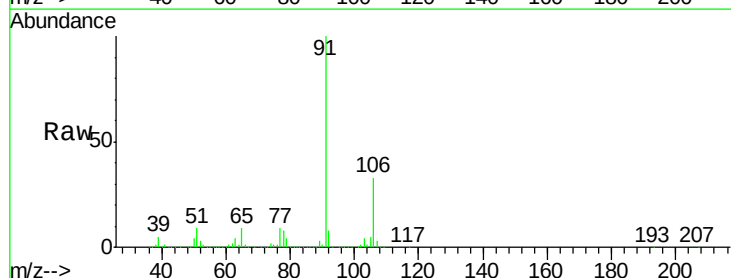
Instrument :
MSVOA_N
ClientSampleId :
DUP-051320DL

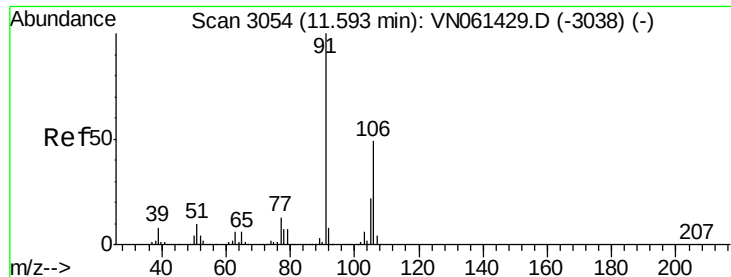
Tot Ion:117 Resp: 520676
Ion Ratio Lower Upper
117 100
82 56.0 45.2 67.8
119 31.3 25.3 37.9



#67
Ethyl Benzene
Concen: 136.557 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

Tgt Ion: 91 Resp: 2646694
Ion Ratio Lower Upper
91 100
106 33.2 24.6 36.8

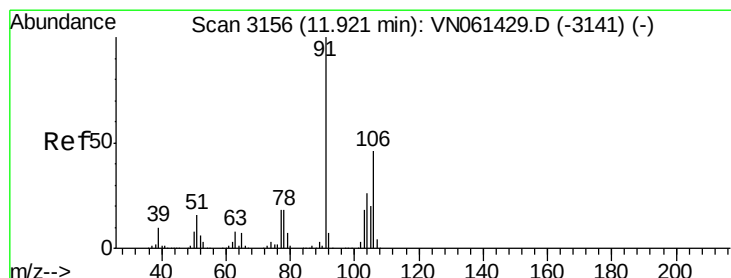
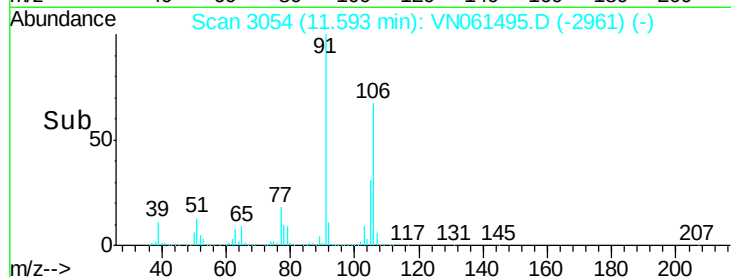
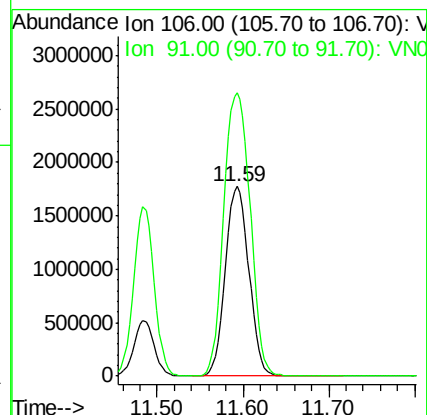
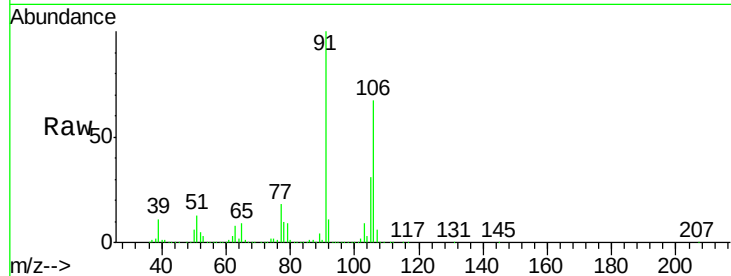




#68
m/p-Xylenes
Concen: 459.831 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

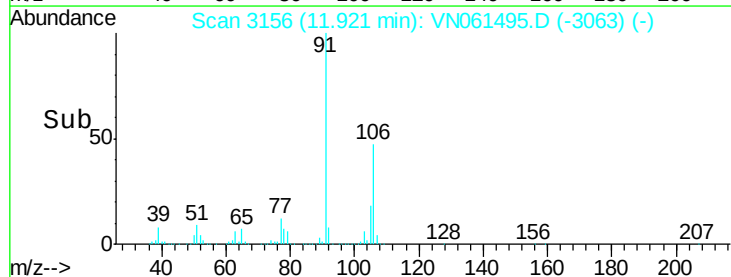
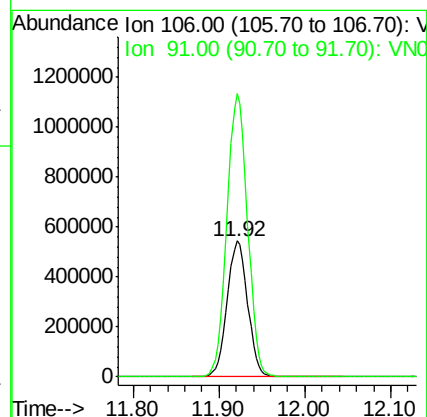
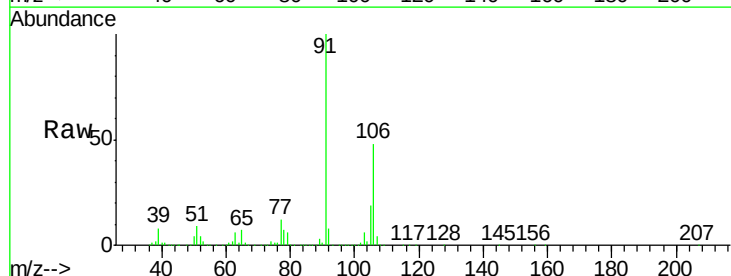
Instrument :
MSVOA_N
ClientSampleId :
DUP-051320DL

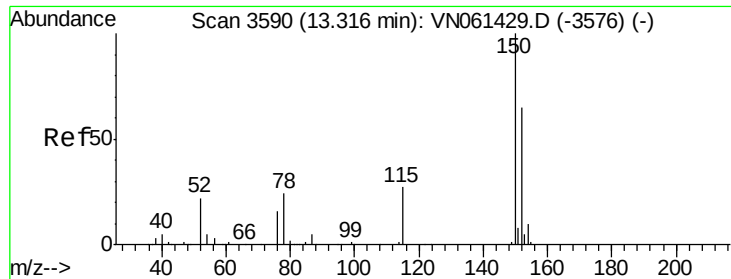
Tot Ion:106 Resp: 3382847
Ion Ratio Lower Upper
106 100
91 167.4 163.0 244.6



#69
o-Xylene
Concen: 126.732 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN061495.D
Acq: 19 May 2020 19:50

Tgt Ion:106 Resp: 902229
Ion Ratio Lower Upper
106 100
91 209.7 107.9 323.7

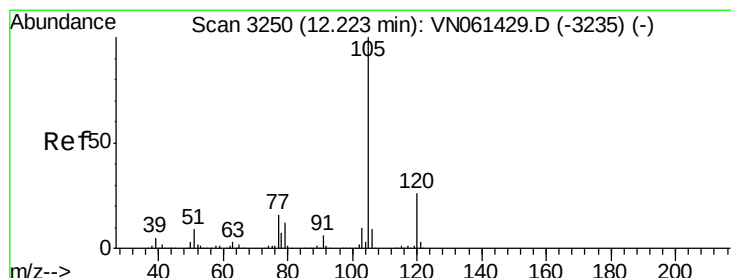
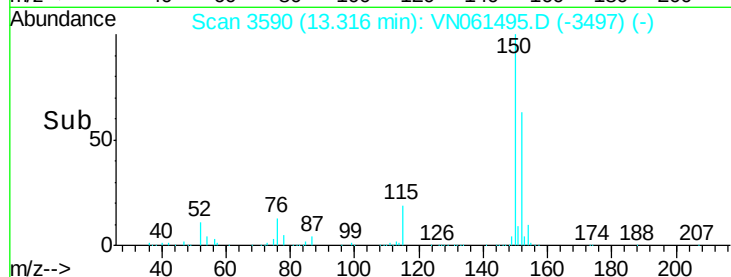
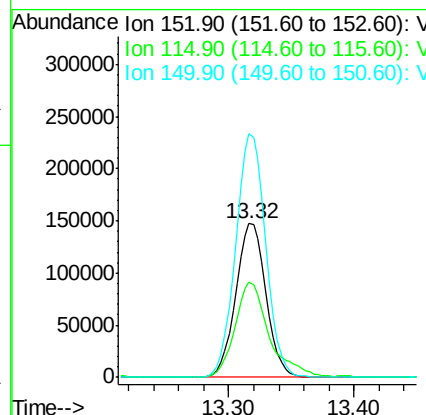
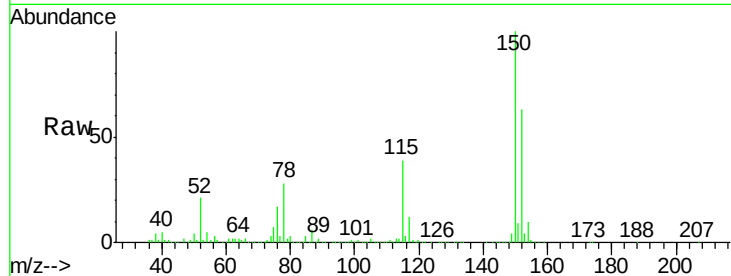




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3590
 Delta R.T. 0.00 min
 Lab File: VN061495.D
 Acq: 19 May 2020 19:50

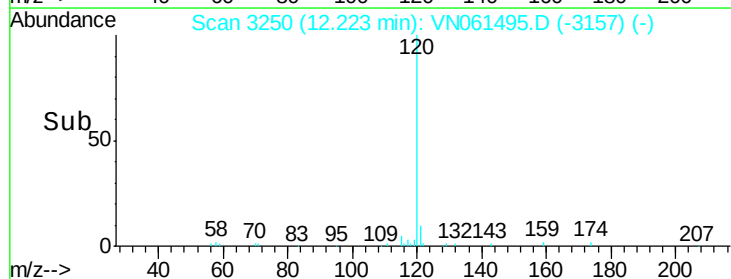
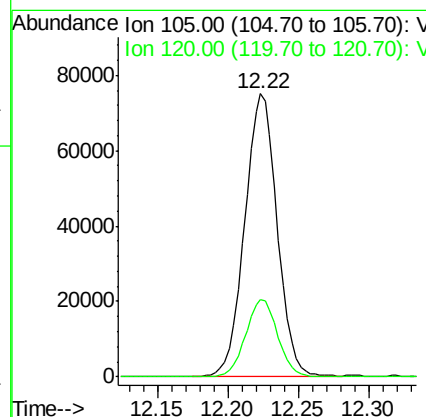
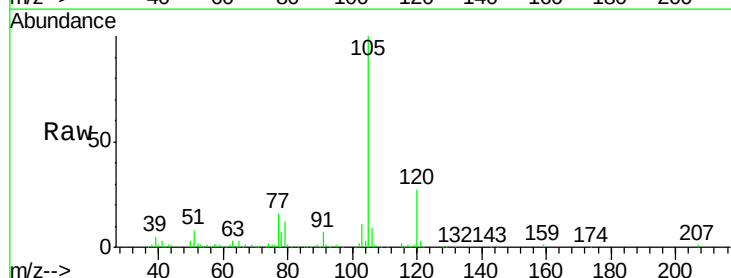
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-051320DL

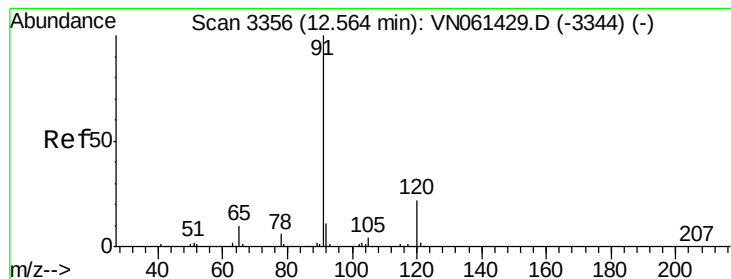
Tot Ion:152 Resp: 245681
 Ion Ratio Lower Upper
 152 100
 115 68.2 30.9 92.5
 150 158.1 0.0 349.2



#73
 Isopropylbenzene
 Concen: 6.133 ug/l
 RT: 12.22 min Scan# 3250
 Delta R.T. 0.00 min
 Lab File: VN061495.D
 Acq: 19 May 2020 19:50

Tgt Ion:105 Resp: 120971
 Ion Ratio Lower Upper
 105 100
 120 27.1 13.0 39.0





#78

n-propylbenzene

Concen: 17.887 ug/l

RT: 12.56 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

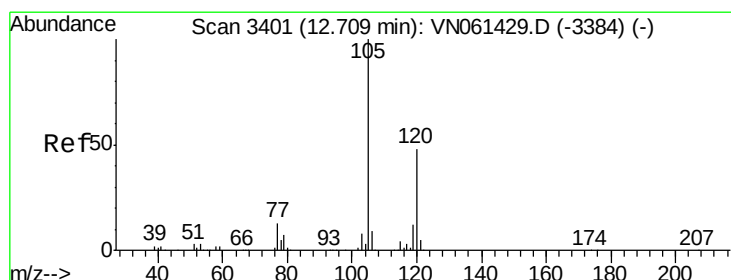
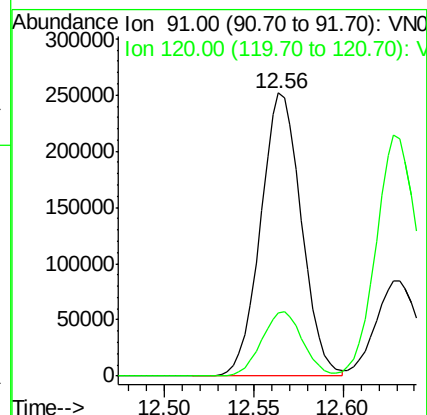
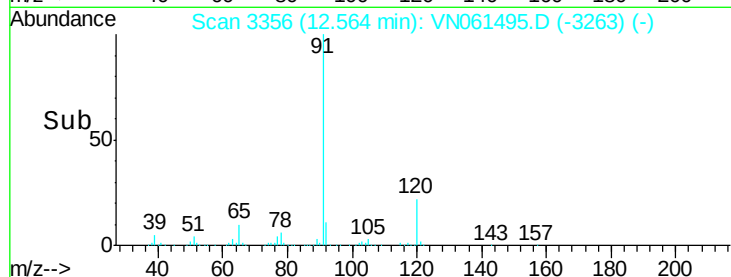
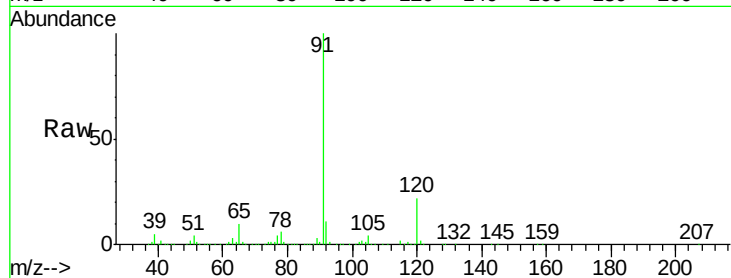
DUP-051320DL

Tot Ion: 91 Resp: 401974

Ion Ratio Lower Upper

91 100

120 23.1 11.2 33.6



#80

1,3,5-Trimethylbenzene

Concen: 28.683 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061495.D

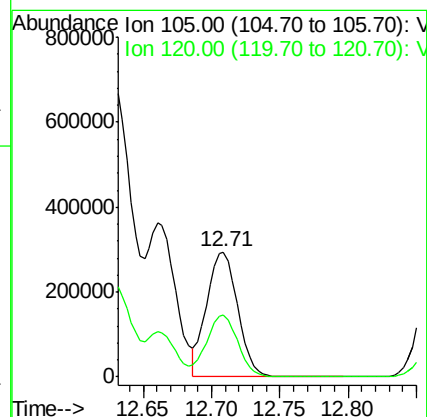
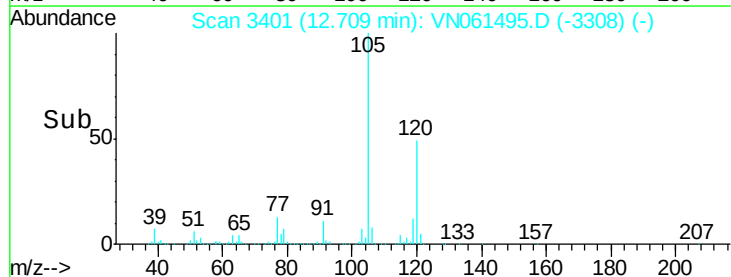
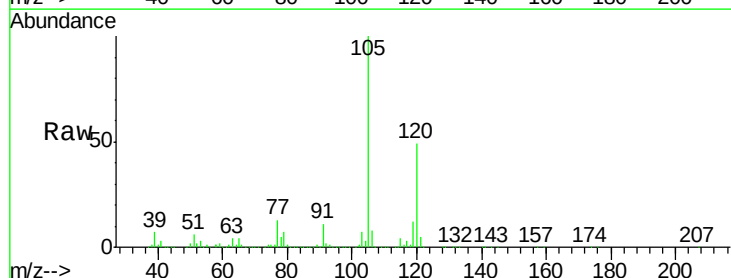
Acq: 19 May 2020 19:50

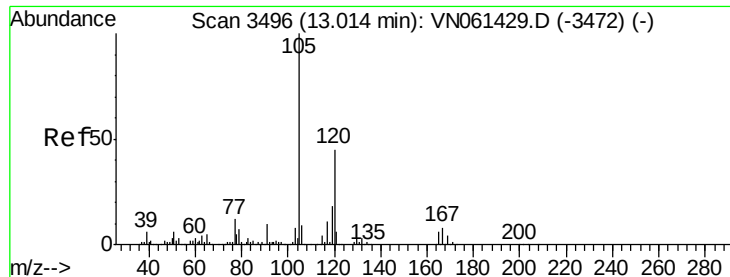
Tgt Ion: 105 Resp: 463214

Ion Ratio Lower Upper

105 100

120 50.3 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 118.261 ug/l

RT: 13.01 min Scan# 3496

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

Instrument :

MSVOA_N

ClientSampleId :

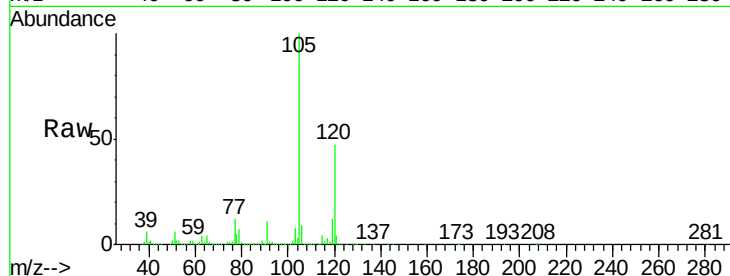
DUP-051320DL

Tot Ion:105 Resp: 1911317

Ion Ratio Lower Upper

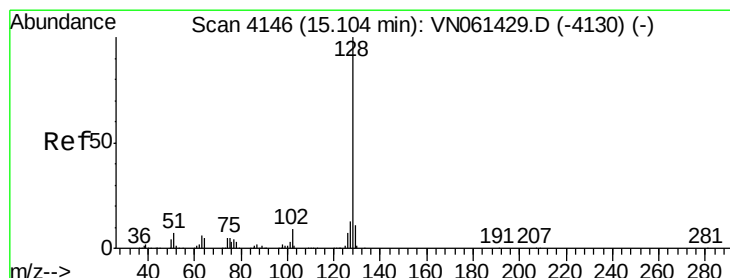
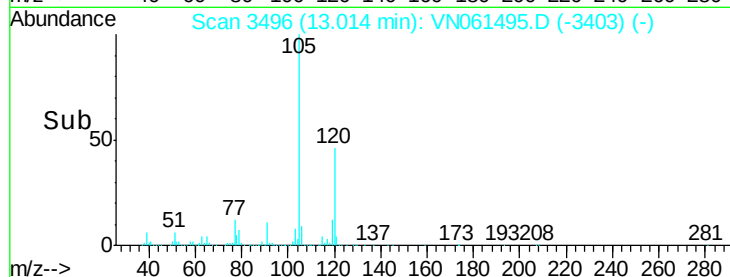
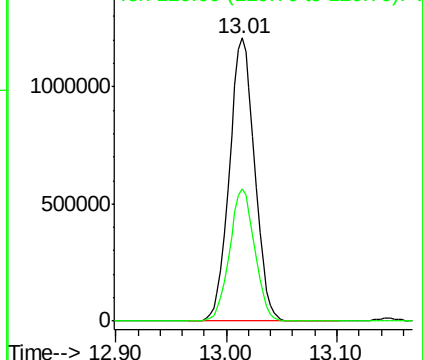
105 100

120 46.5 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 26.927 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN061495.D

Acq: 19 May 2020 19:50

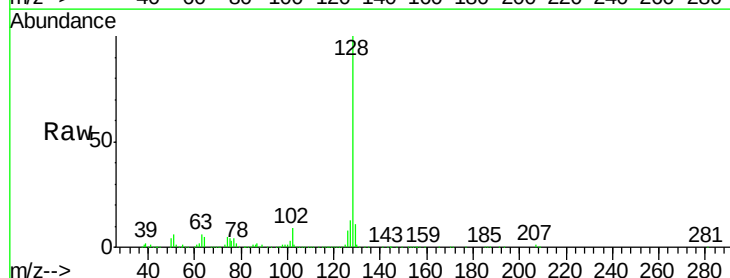
Tgt Ion:128 Resp: 348788

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

129 10.9 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

