

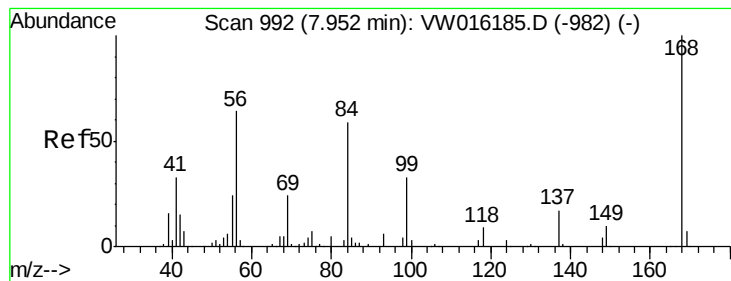
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082220\
 Data File : VW016301.D
 Acq On : 21 Aug 2020 13:13
 Operator : SY/VA
 Sample : L3504-07
 Misc : 7.81G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-081920

Quant Time: Aug 22 06:22:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W081420S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 08:01:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	178196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	321707	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	261148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	86360	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	96015	55.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.50%	
35) Dibromofluoromethane	7.88	113	98743	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	10.33	98	374108	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
62) 4-Bromofluorobenzene	12.62	95	116727	42.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.00%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	1406	1.533	ug/l	87
16) Acetone	4.14	43	2498	7.504	ug/l	92
20) Methylene Chloride	4.92	84	37865	14.835	ug/l	89
39) Methylcyclohexane	9.34	83	17474	4.577	ug/l	95
67) Ethyl Benzene	11.73	91	107771	11.203	ug/l	100
68) m/p-Xylenes	11.84	106	13882	3.754	ug/l	96
69) o-Xylene	12.17	106	249775	75.824	ug/l	97
73) Isopropylbenzene	12.46	105	107483	16.333	ug/l	100
78) n-propylbenzene	12.80	91	277554	35.334	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	819281	145.025	ug/l	98
83) tert-Butylbenzene	13.21	119	14914	3.221	ug/l	89
84) 1,2,4-Trimethylbenzene	13.25	105	136599	24.436	ug/l	98
85) sec-Butylbenzene	13.38	105	225585	33.524	ug/l	85
86) p-Isopropyltoluene	13.50	119	190310	31.269	ug/l	99
89) n-Butylbenzene	13.82	91	170635	30.305	ug/l #	67

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

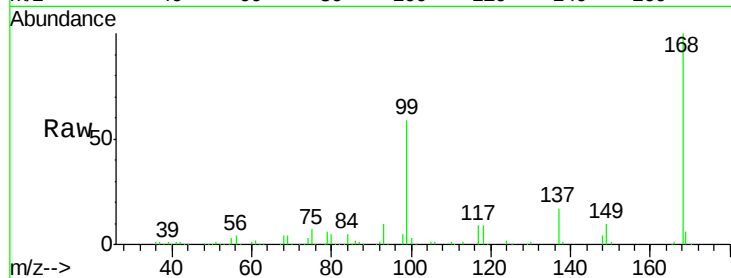
EO-01-081920

Tot Ion:168 Resp: 178196

Ion Ratio Lower Upper

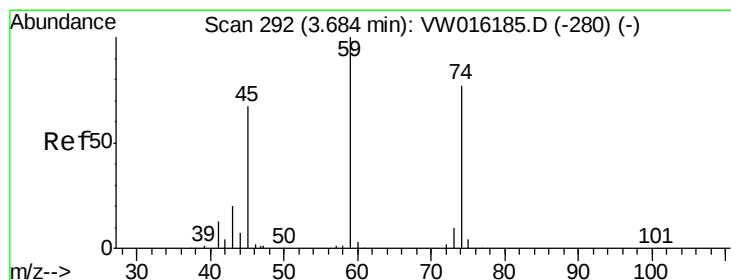
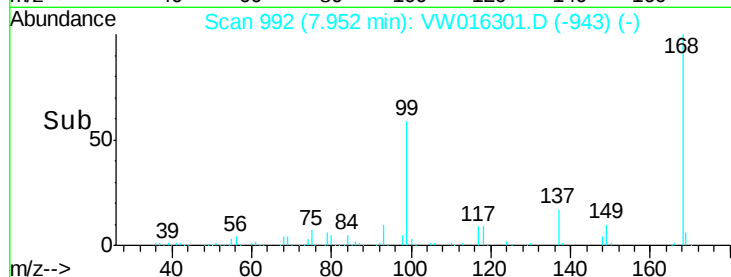
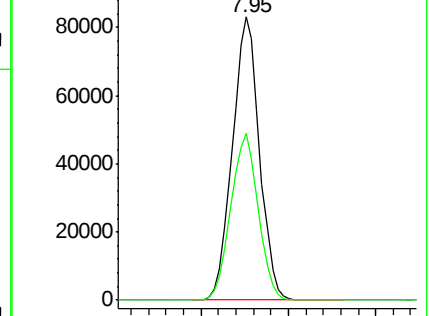
168 100

99 59.1 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.533 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW016301.D

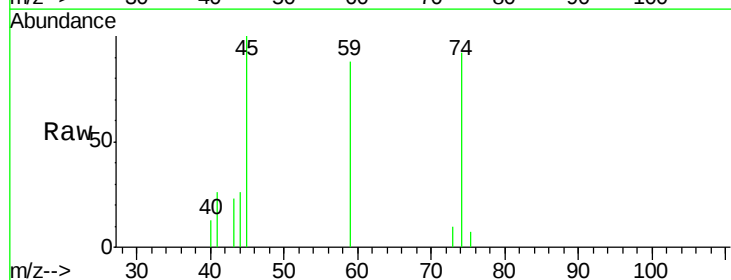
Acq: 21 Aug 2020 13:13

Tgt Ion: 74 Resp: 1406

Ion Ratio Lower Upper

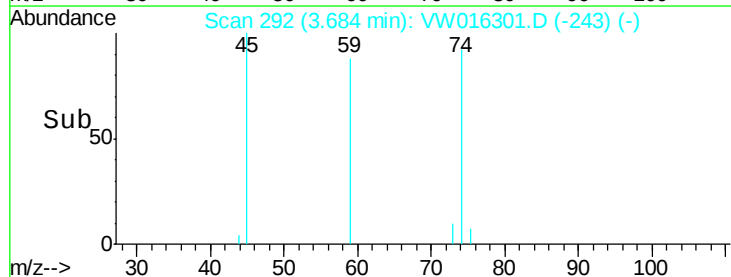
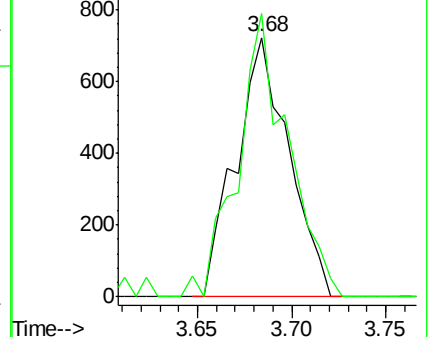
74 100

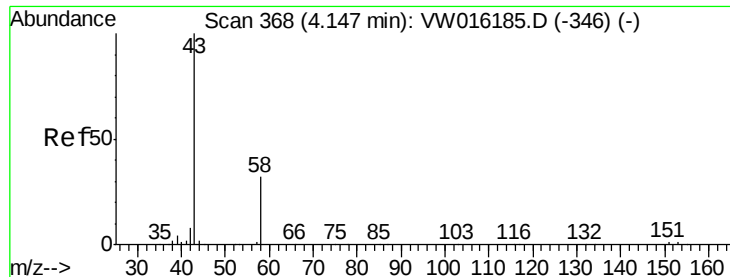
45 103.9 45.9 137.7



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#16

Acetone

Concen: 7.504 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

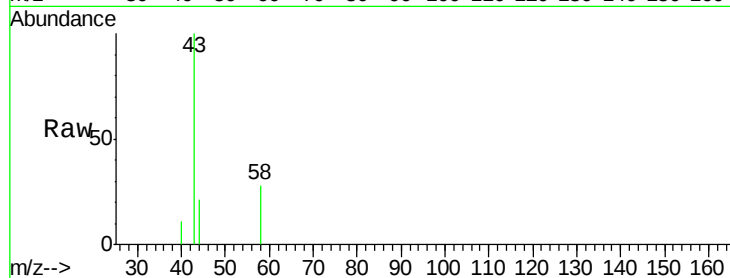
EO-01-081920

Tot Ion: 43 Resp: 2498

Ion Ratio Lower Upper

43 100

58 27.9 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

800

600

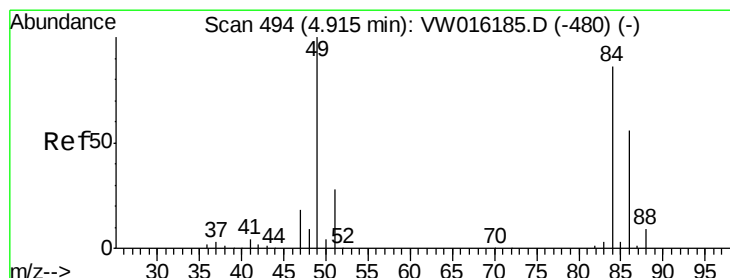
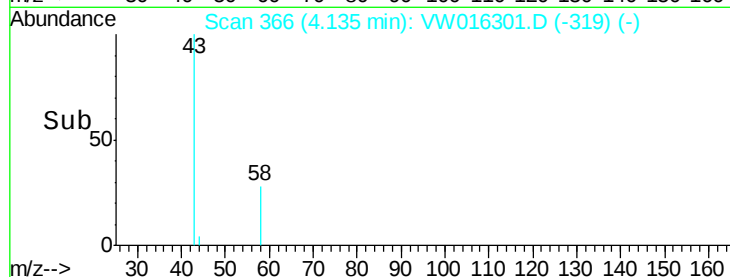
400

200

0

4.10 4.20

Time-->



#20

Methylene Chloride

Concen: 14.835 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Tgt Ion: 84 Resp: 37865

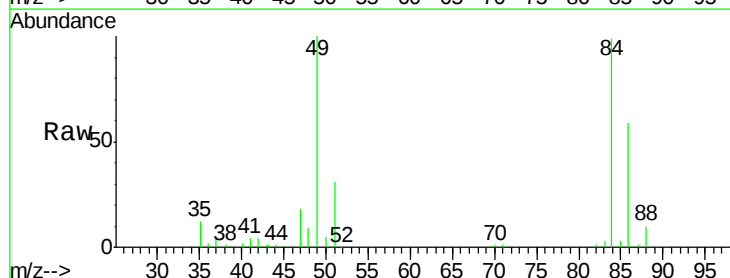
Ion Ratio Lower Upper

84 100

49 101.2 93.4 140.2

51 31.1 26.6 40.0

86 59.3 52.2 78.2



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

15000

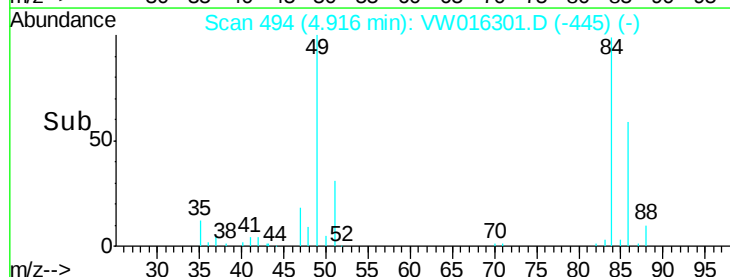
10000

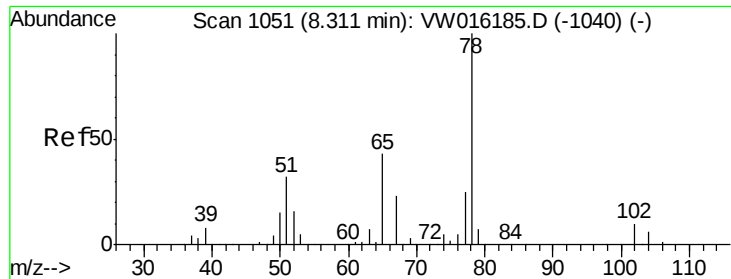
5000

0

4.80 4.90 5.00 5.10

Time-->





#33

1,2-Dichloroethane-d4

Concen: 55.252 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

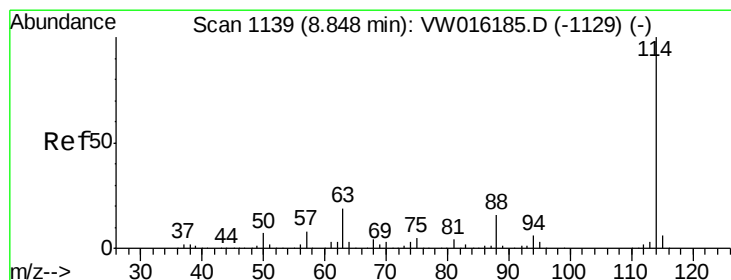
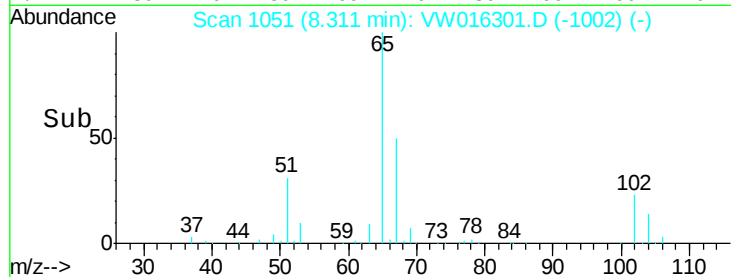
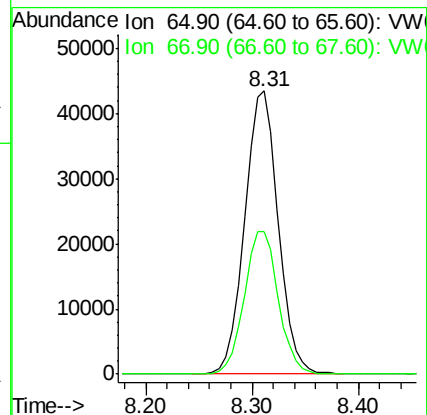
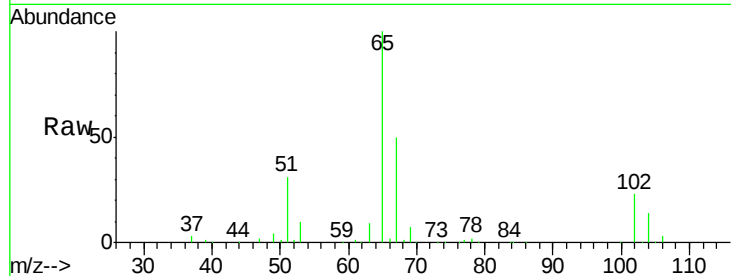
EO-01-081920

Tot Ion: 65 Resp: 96015

Ion Ratio Lower Upper

65 100

67 51.1 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

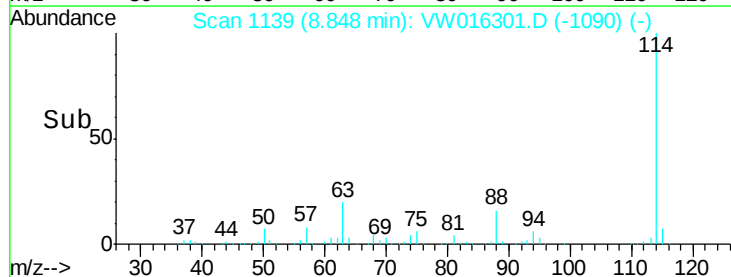
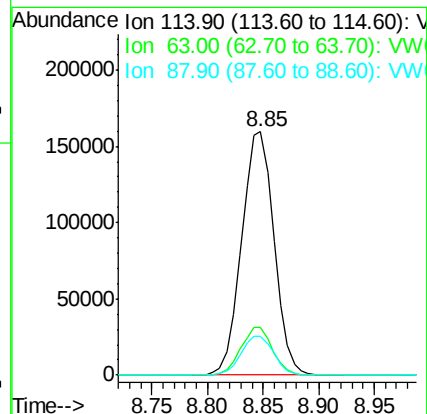
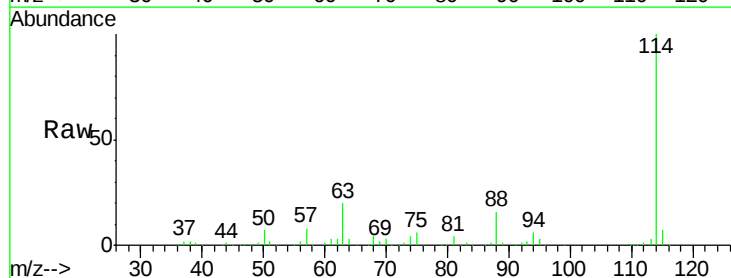
Tgt Ion: 114 Resp: 321707

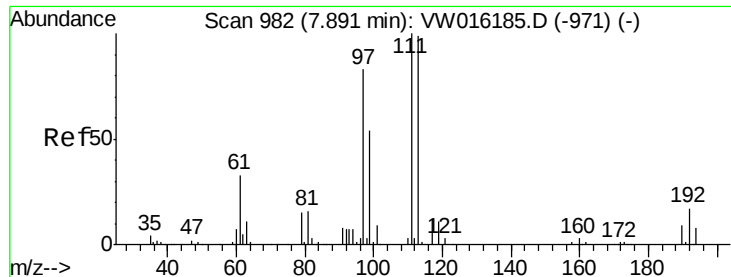
Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.746 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

EO-01-081920

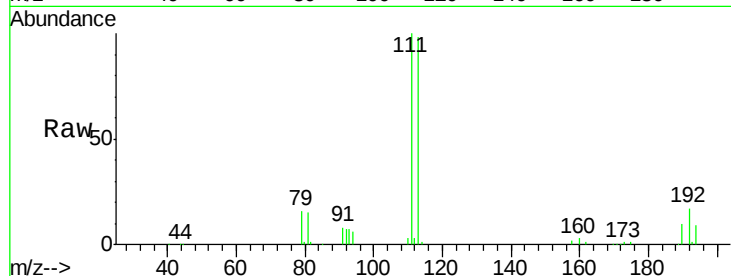
Tot Ion:113 Resp: 98743

Ion Ratio Lower Upper

113 100

111 101.9 83.5 125.3

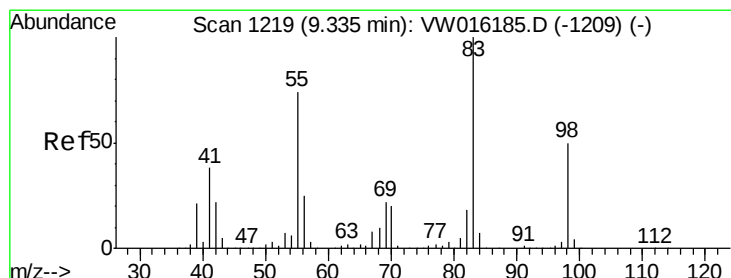
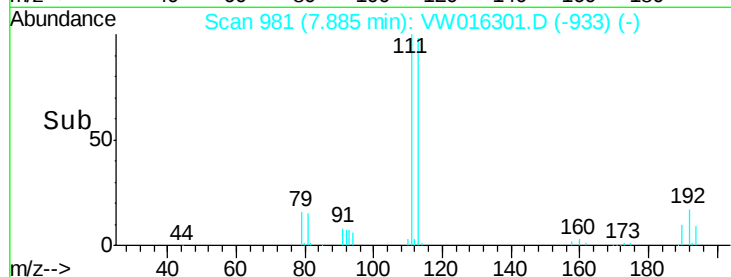
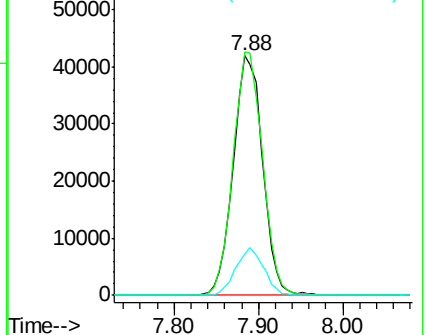
192 18.8 14.3 21.5



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

Methylcyclohexane

Concen: 4.577 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

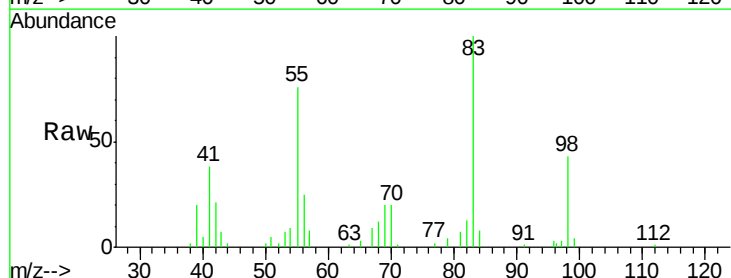
Tgt Ion: 83 Resp: 17474

Ion Ratio Lower Upper

83 100

55 75.2 59.2 88.8

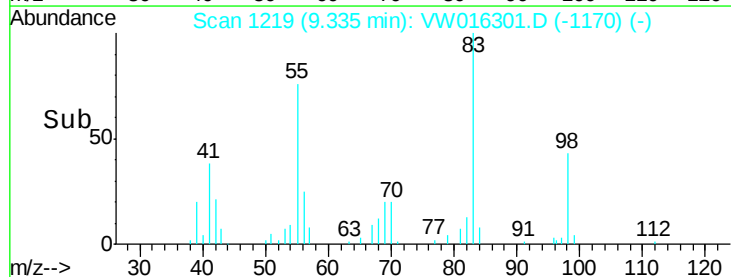
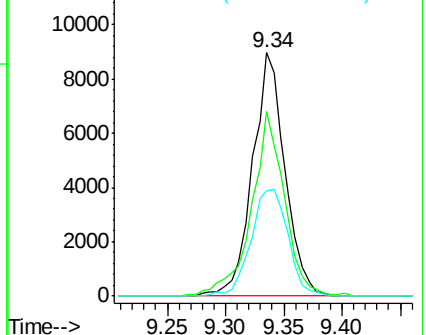
98 43.4 40.2 60.2

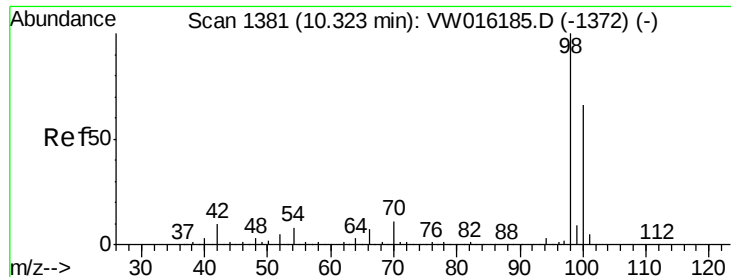


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 48.690 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

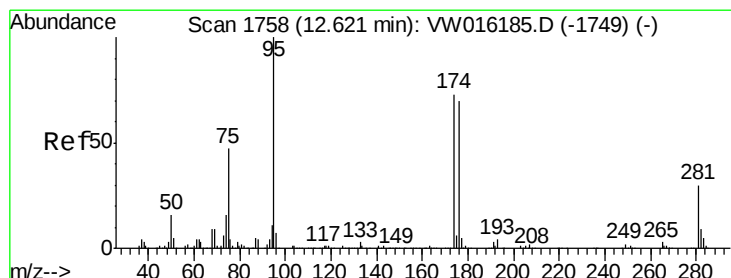
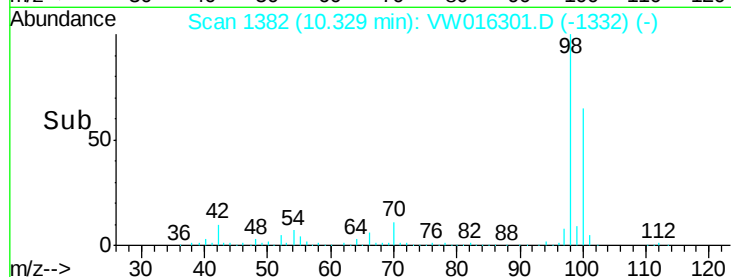
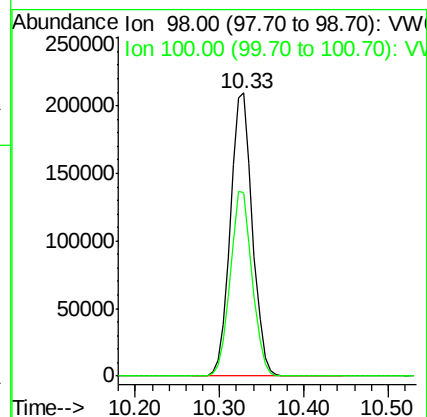
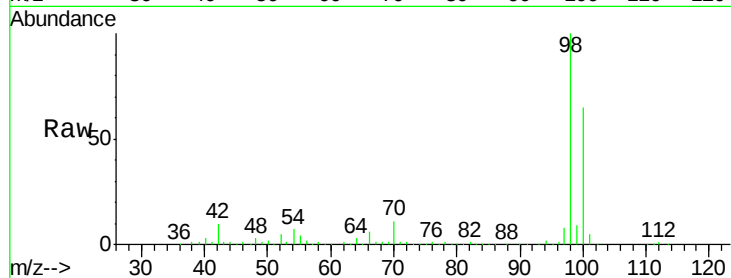
EO-01-081920

Tot Ion: 98 Resp: 374108

Ion Ratio Lower Upper

98 100

100 64.9 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 42.501 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

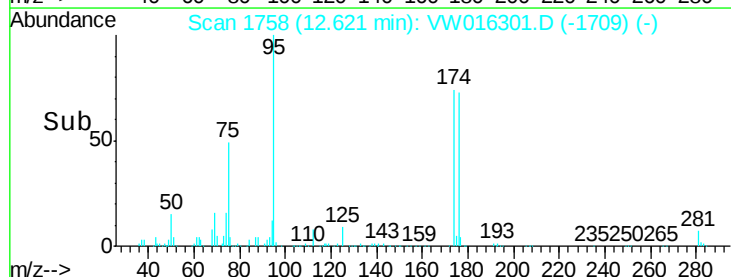
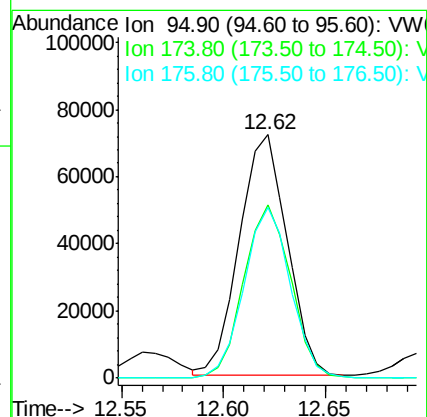
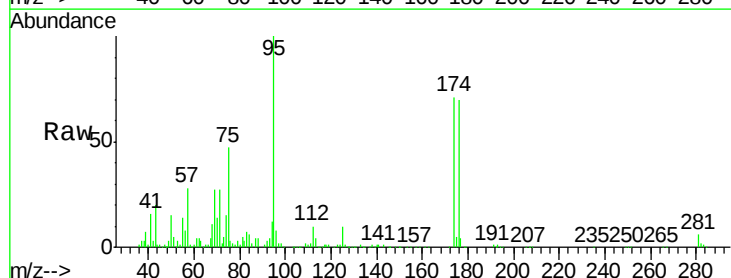
Tgt Ion: 95 Resp: 116727

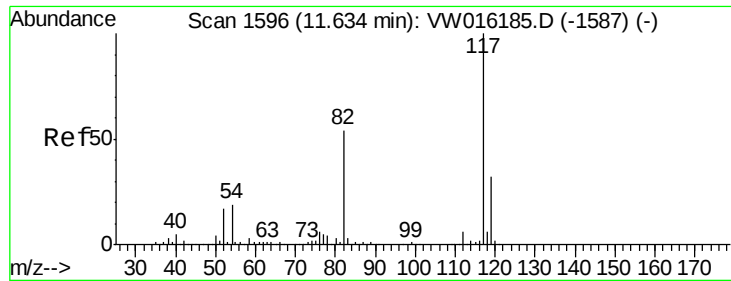
Ion Ratio Lower Upper

95 100

174 70.4 0.0 145.6

176 68.7 0.0 137.8

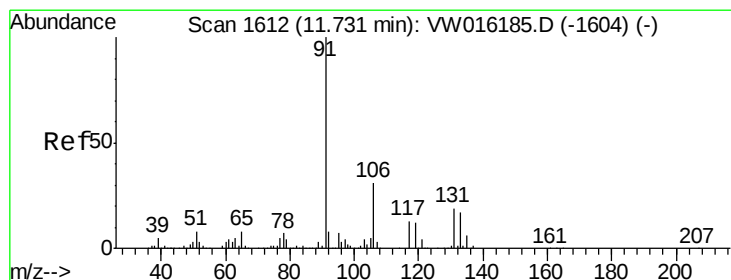
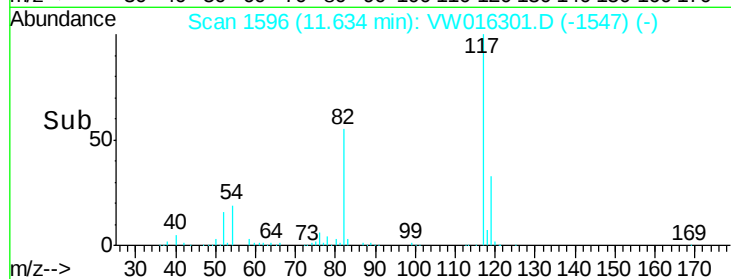
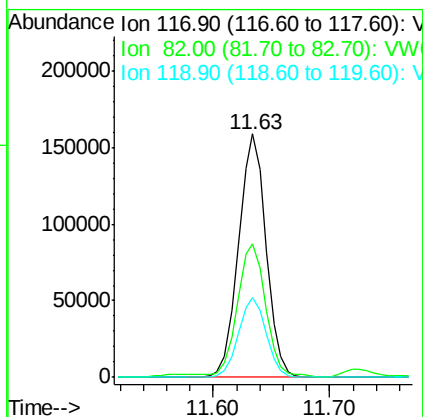
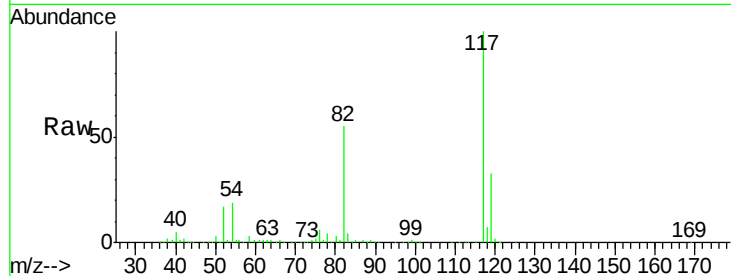




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016301.D
Acq: 21 Aug 2020 13:13

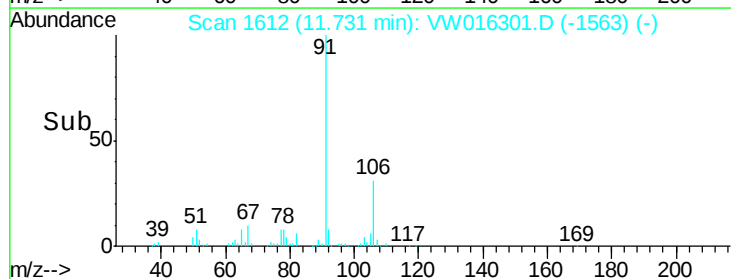
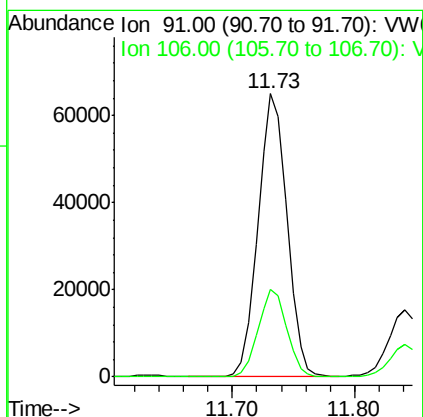
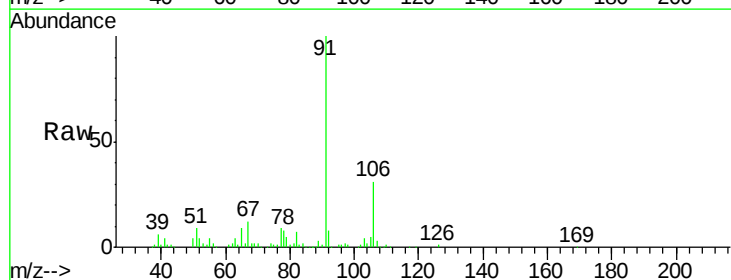
Instrument :
MSVOA_W
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EO-01-081920

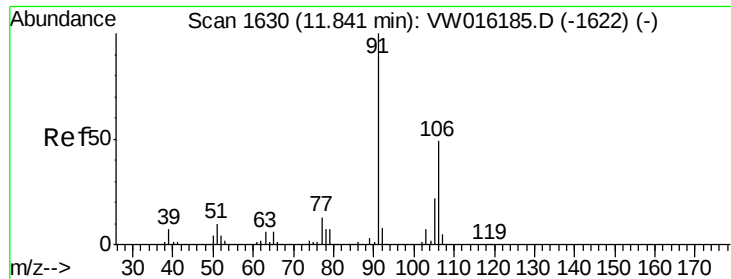
Tot Ion:117 Resp: 261148
Ion Ratio Lower Upper
117 100
82 53.7 43.6 65.4
119 32.5 25.4 38.0



#67
Ethyl Benzene
Concen: 11.203 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016301.D
Acq: 21 Aug 2020 13:13

Tgt Ion: 91 Resp: 107771
Ion Ratio Lower Upper
91 100
106 31.1 24.9 37.3

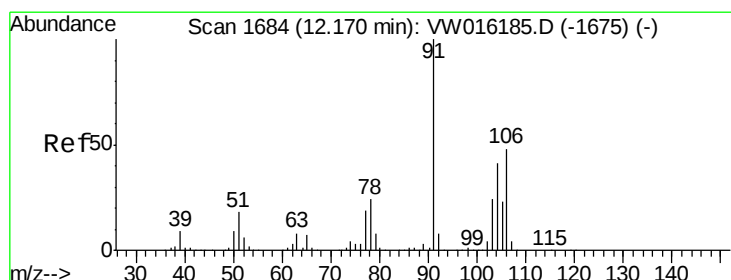
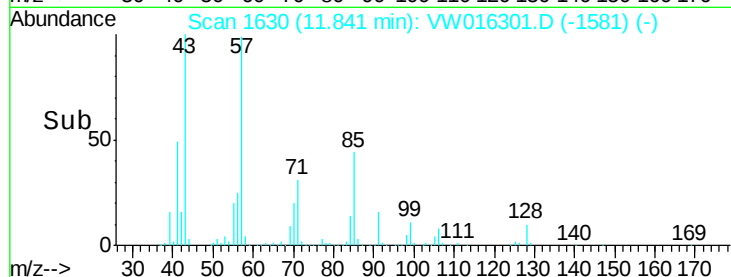
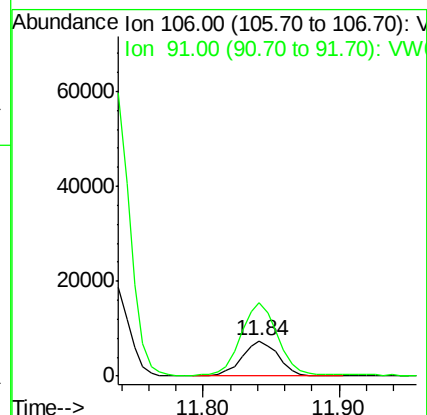
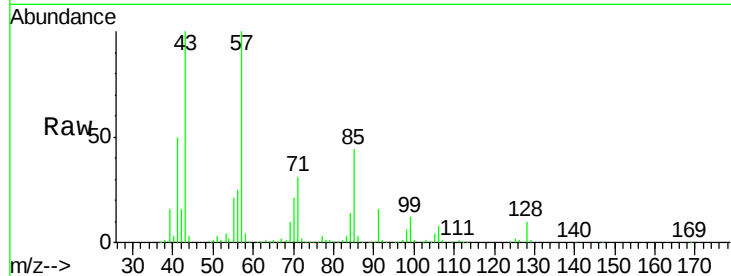




#68
m/p-Xylenes
Concen: 3.754 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016301.D
Acq: 21 Aug 2020 13:13

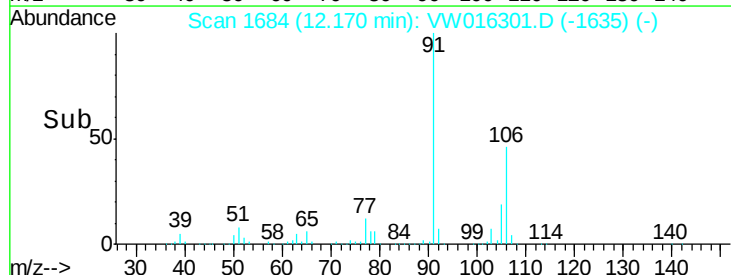
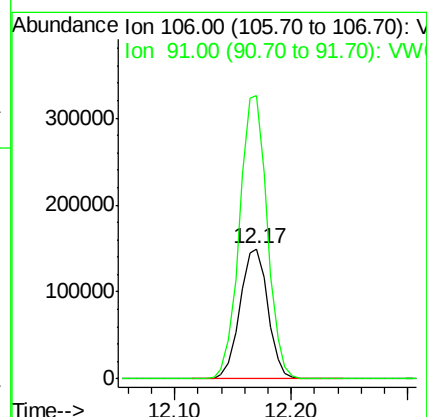
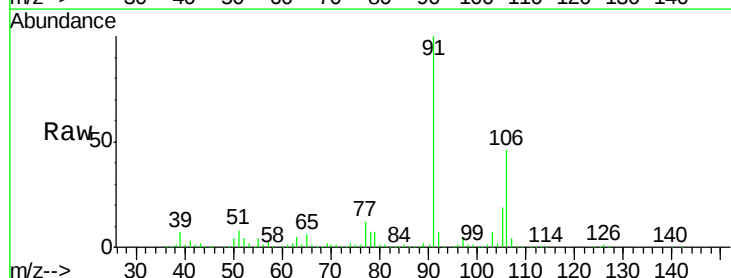
Instrument :
MSVOA_W
ClientSampleId :
EO-01-081920

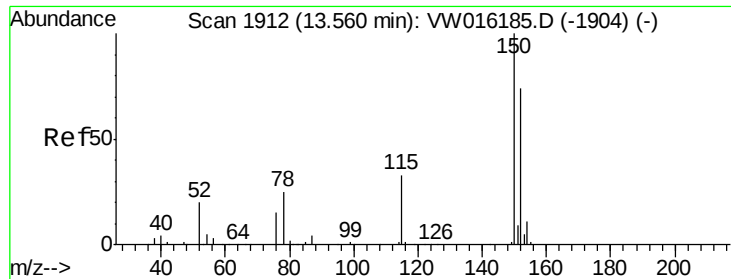
Tot Ion:106 Resp: 13882
Ion Ratio Lower Upper
106 100
91 207.4 161.4 242.2



#69
o-Xylene
Concen: 75.824 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW016301.D
Acq: 21 Aug 2020 13:13

Tgt Ion:106 Resp: 249775
Ion Ratio Lower Upper
106 100
91 216.6 106.0 317.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

EO-01-081920

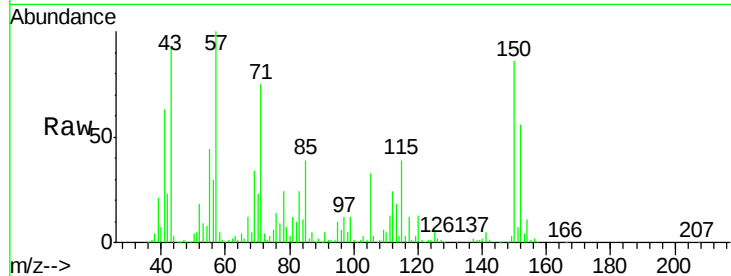
Tot Ion:152 Resp: 86360

Ion Ratio Lower Upper

152 100

115 0.0 30.9 92.5#

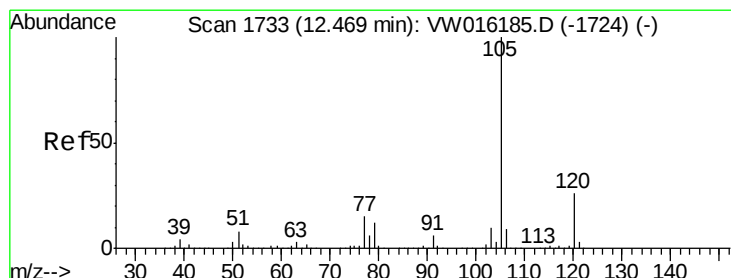
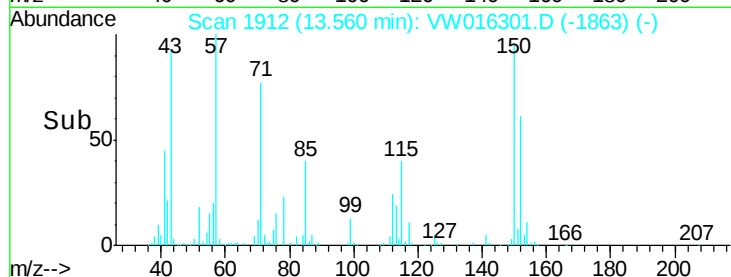
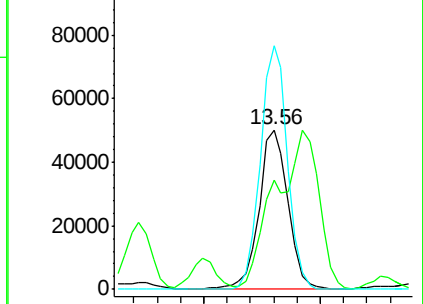
150 143.2 0.0 337.8



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



#73

Isopropylbenzene

Concen: 16.333 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW016301.D

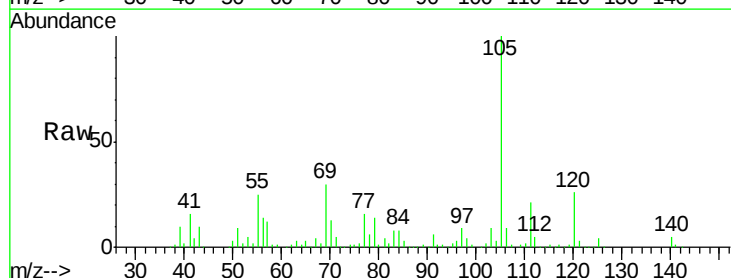
Acq: 21 Aug 2020 13:13

Tgt Ion:105 Resp: 107483

Ion Ratio Lower Upper

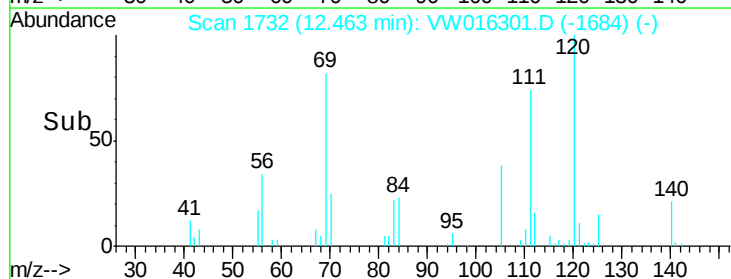
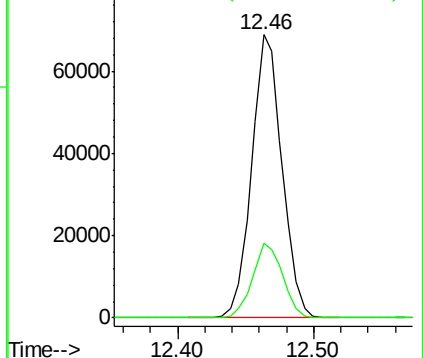
105 100

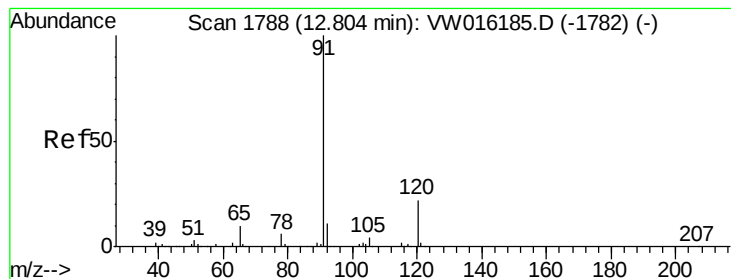
120 26.2 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 35.334 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

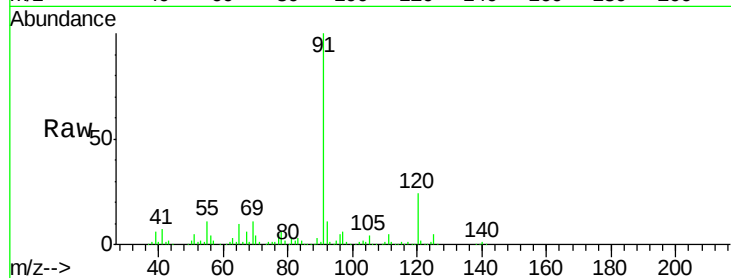
EO-01-081920

Tot Ion: 91 Resp: 277554

Ion Ratio Lower Upper

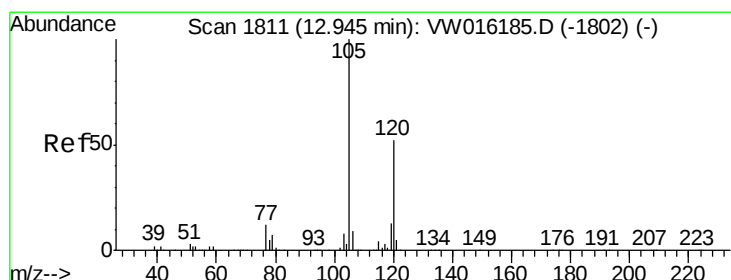
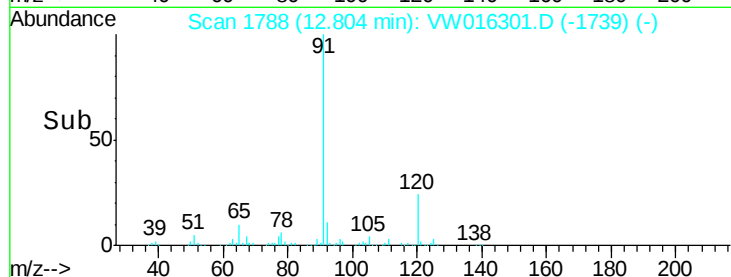
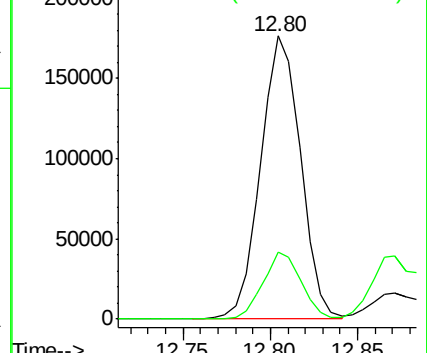
91 100

120 22.9 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 145.025 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016301.D

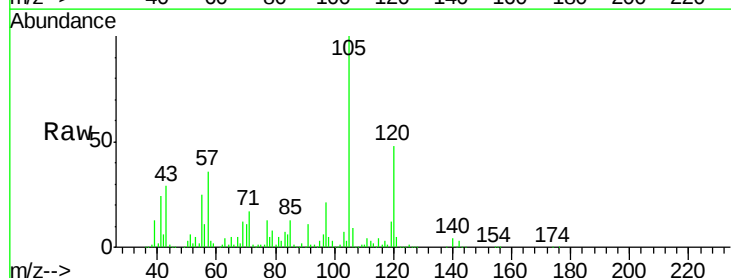
Acq: 21 Aug 2020 13:13

Tgt Ion:105 Resp: 819281

Ion Ratio Lower Upper

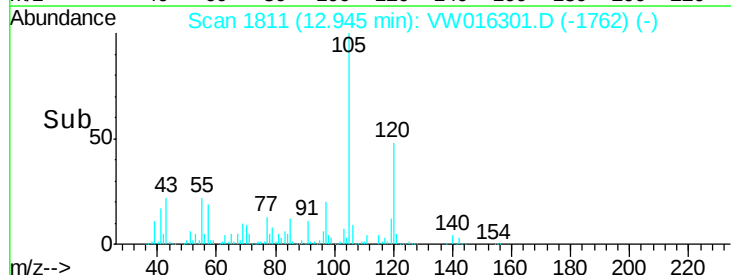
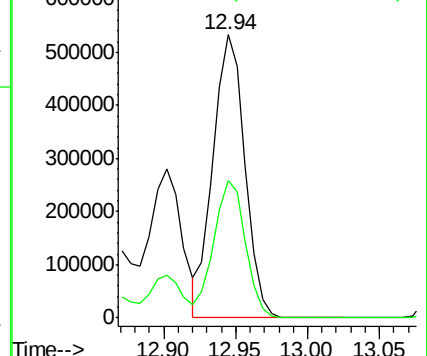
105 100

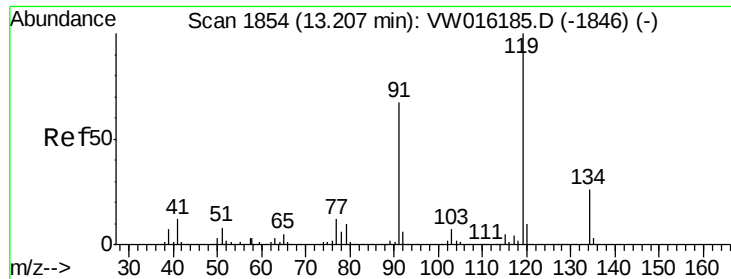
120 48.4 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

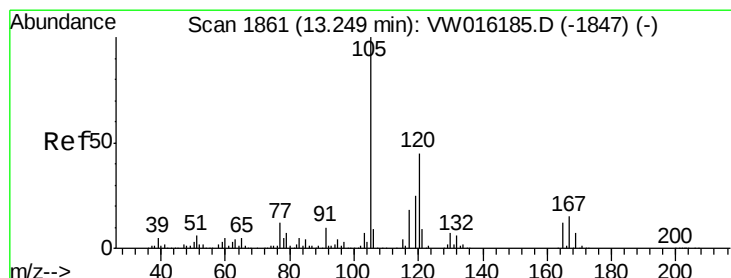
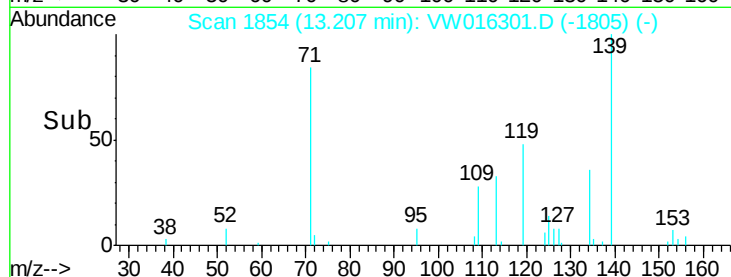
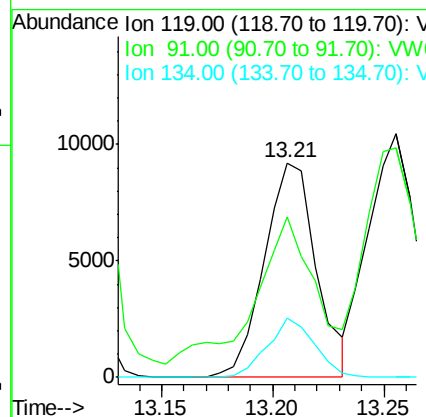
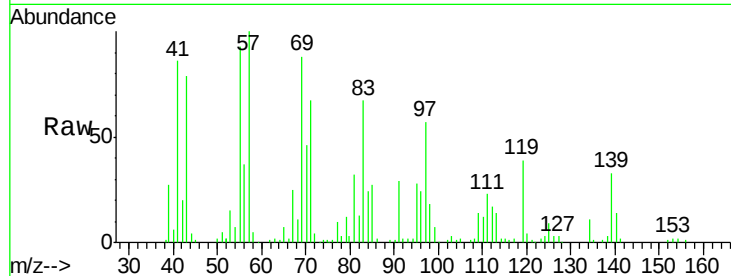




#83
tert-Butylbenzene
Concen: 3.221 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW016301.D
Acq: 21 Aug 2020 13:13

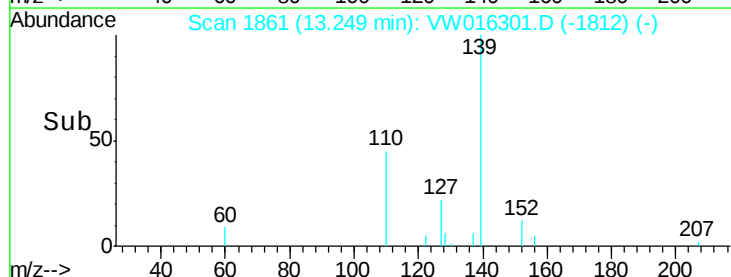
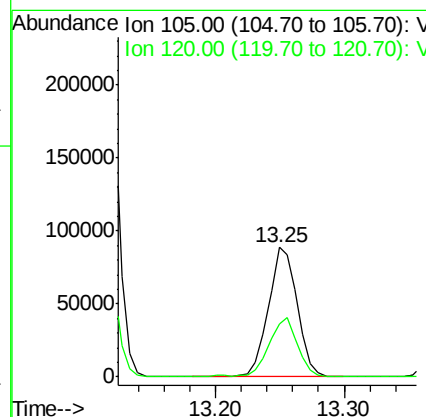
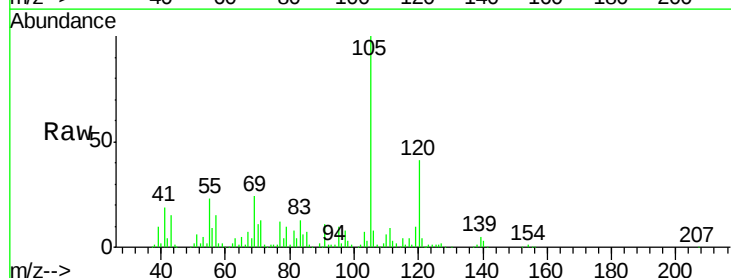
Instrument :
MSVOA_W
ClientSampleId :
EO-01-081920

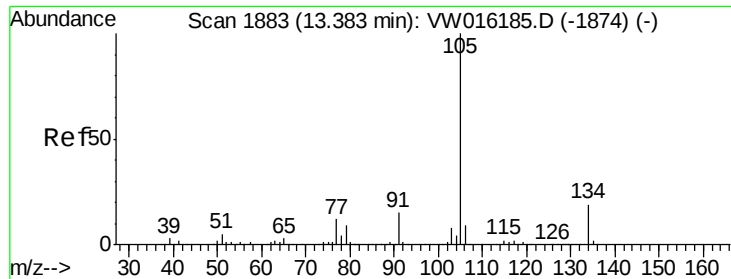
Tot Ion:119 Resp: 14914
Ion Ratio Lower Upper
119 100
91 77.9 33.3 99.9
134 25.0 13.5 40.5



#84
1,2,4-Trimethylbenzene
Concen: 24.436 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW016301.D
Acq: 21 Aug 2020 13:13

Tgt Ion:105 Resp: 136599
Ion Ratio Lower Upper
105 100
120 45.4 22.2 66.6

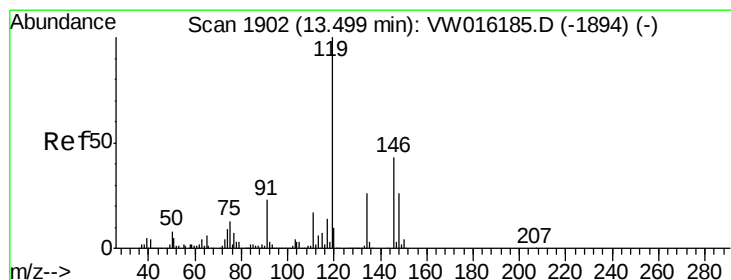
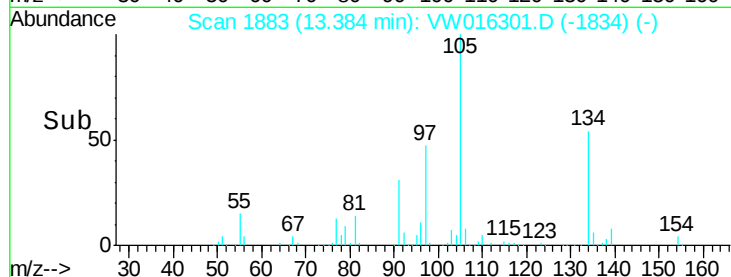
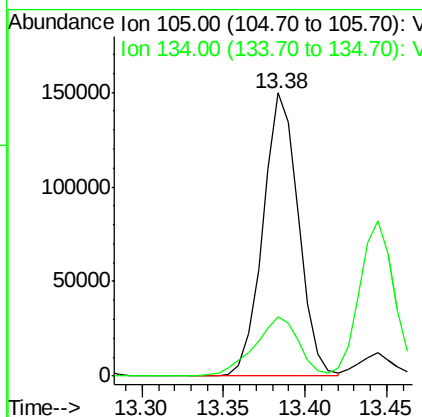
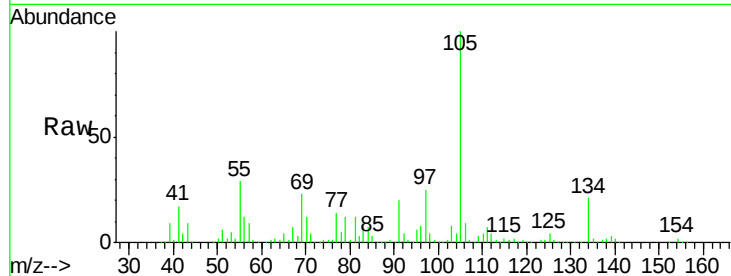




#85
 sec-Butylbenzene
 Concen: 33.524 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW016301.D
 Acq: 21 Aug 2020 13:13

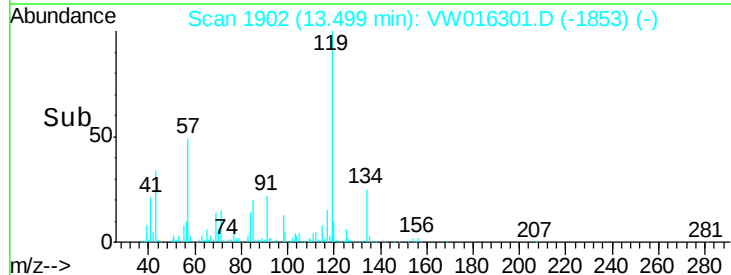
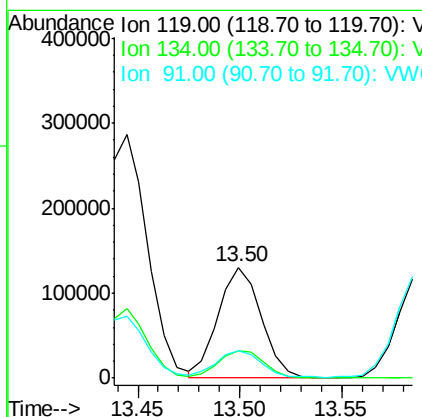
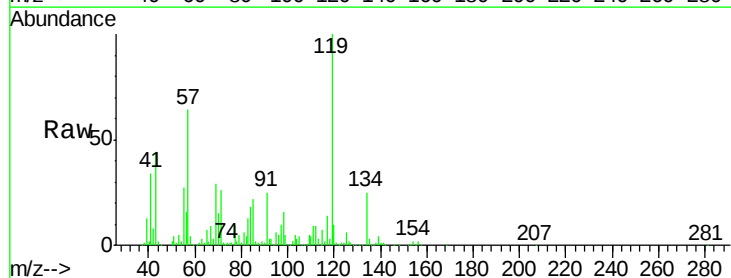
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-081920

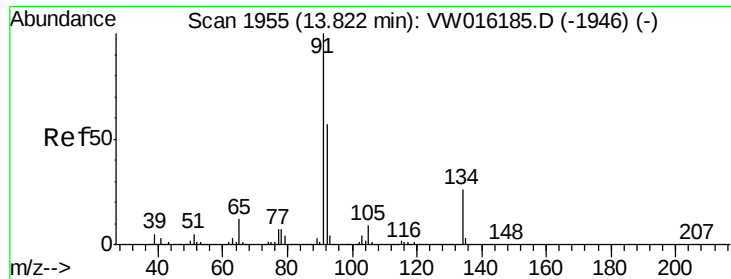
Tot Ion:105 Resp: 225585
 Ion Ratio Lower Upper
 105 100
 134 26.3 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 31.269 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016301.D
 Acq: 21 Aug 2020 13:13

Tgt Ion:119 Resp: 190310
 Ion Ratio Lower Upper
 119 100
 134 26.2 12.8 38.4
 91 24.2 11.8 35.3





#89

n-Butylbenzene

Concen: 30.305 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW016301.D

Acq: 21 Aug 2020 13:13

Instrument :

MSVOA_W

ClientSampleId :

EO-01-081920

Tot Ion: 91 Resp: 170635

Ion Ratio Lower Upper

91 100

92 72.9 27.4 82.2

134 0.0 13.0 39.0#

