

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065547.D
 Acq On : 27 Mar 2020 16:41
 Operator : VA/SY
 Sample : L2050-07
 Misc : 5.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-DEBRIS

Quant Time: Mar 30 07:46:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	236457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	451199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	370254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	128049	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	163644	83.14	ug/l	0.00
Spiked Amount			Recovery	=	166.28%	
35) Dibromofluoromethane	7.92	113	167058	59.98	ug/l	0.00
Spiked Amount			Recovery	=	119.96%	
50) Toluene-d8	10.34	98	512322	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
62) 4-Bromofluorobenzene	12.64	95	140517	42.34	ug/l	0.00
Spiked Amount			Recovery	=	84.68%	

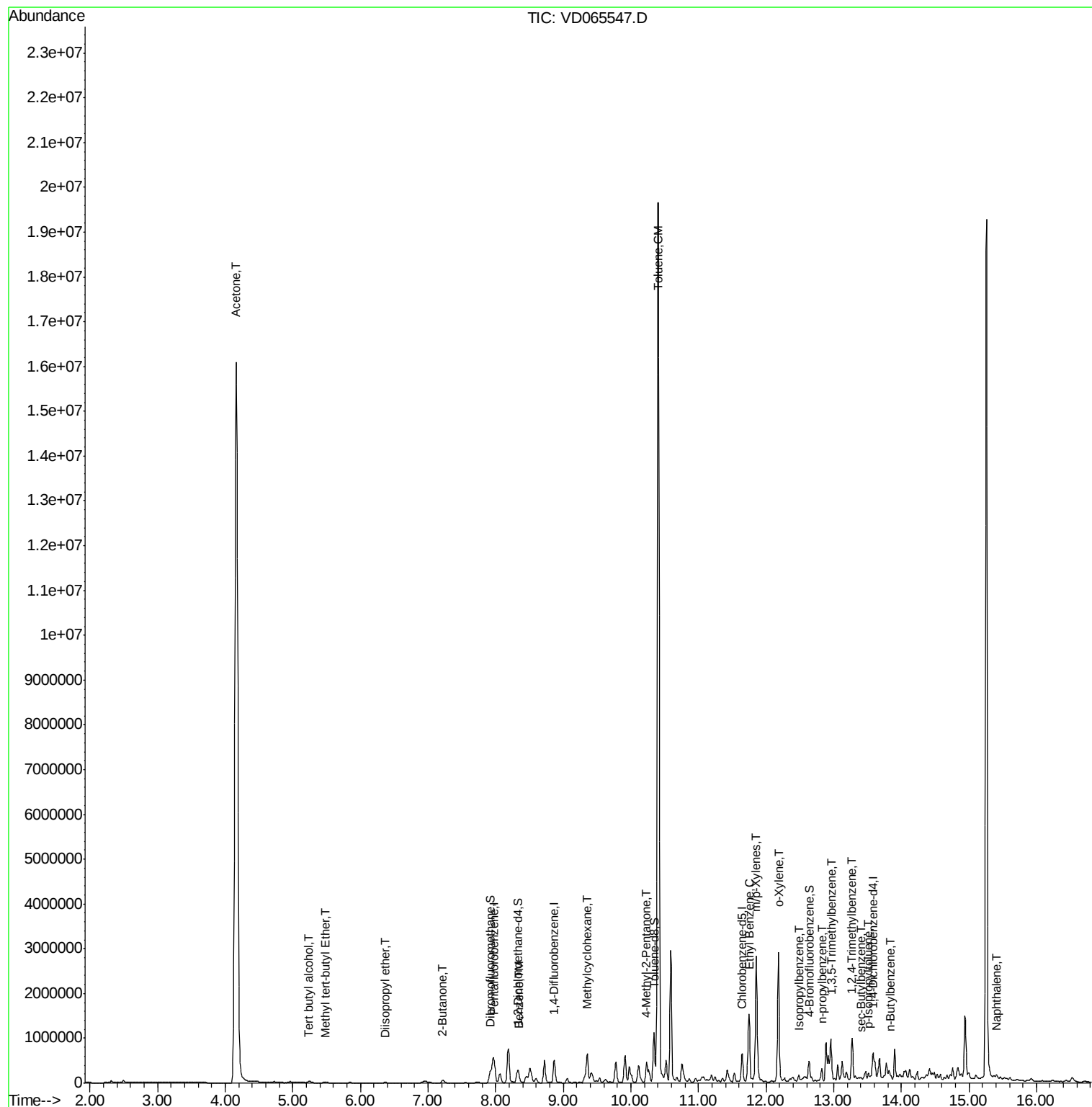
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.23	59	54044	488.258	ug/l #	85
16) Acetone	4.16	43	28922211	77874.065	ug/l #	79
19) Methyl tert-butyl Ether	5.48	73	22384	5.494	ug/l #	86
22) Diisopropyl ether	6.37	45	9249	1.534	ug/l #	96
25) 2-Butanone	7.22	43	95822	189.977	ug/l	98
39) Methylcyclohexane	9.36	83	219816	45.227	ug/l	97
40) Benzene	8.35	78	31722	2.697	ug/l	91
51) 4-Methyl-2-Pentanone	10.23	43	318197	220.040	ug/l	100
52) Toluene	10.41	92	9800067	1315.491	ug/l	87
67) Ethyl Benzene	11.75	91	1087954	89.236	ug/l	99
68) m/p-Xylenes	11.85	106	864641	180.621	ug/l	100
69) o-Xylene	12.18	106	831161	198.256	ug/l	99
73) Isopropylbenzene	12.48	105	87763	11.162	ug/l	99
78) n-propylbenzene	12.83	91	228409	24.371	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	258916	39.729	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	537099	82.437	ug/l	100
85) sec-Butylbenzene	13.41	105	26079	3.339	ug/l #	69
86) p-Isopropyltoluene	13.53	119	21608	3.002	ug/l	99
89) n-Butylbenzene	13.85	91	30476	4.662	ug/l #	71
95) Naphthalene	15.41	128	69232	20.314	ug/l	98

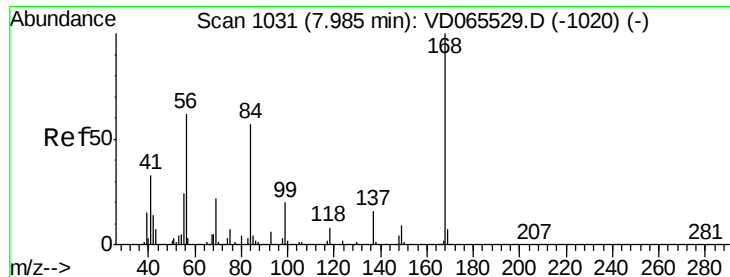
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

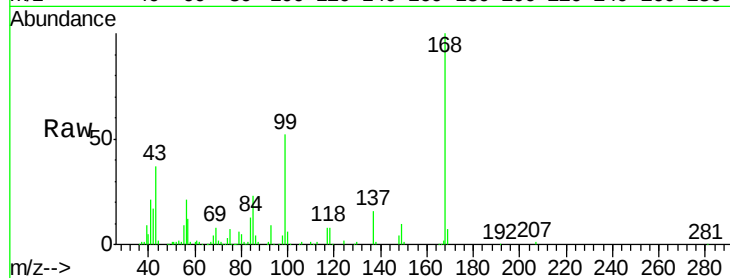
OILY-DEBRIS

Tot Ion:168 Resp: 236457

Ion Ratio Lower Upper

168 100

99 51.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

100000

80000

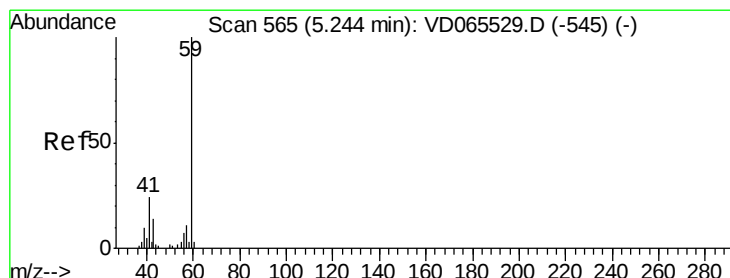
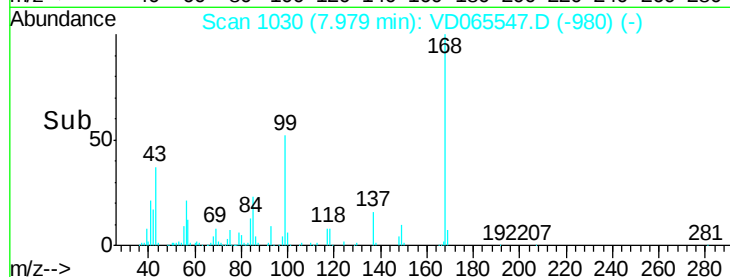
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 488.258 ug/l

RT: 5.23 min Scan# 563

Delta R.T. -0.01 min

Lab File: VD065547.D

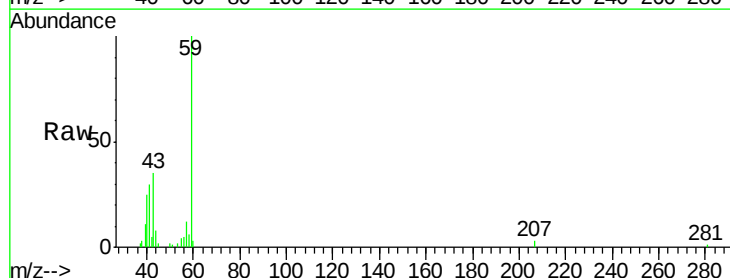
Acq: 27 Mar 2020 16:41

Tgt Ion: 59 Resp: 54044

Ion Ratio Lower Upper

59 100

57 4.4 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.23

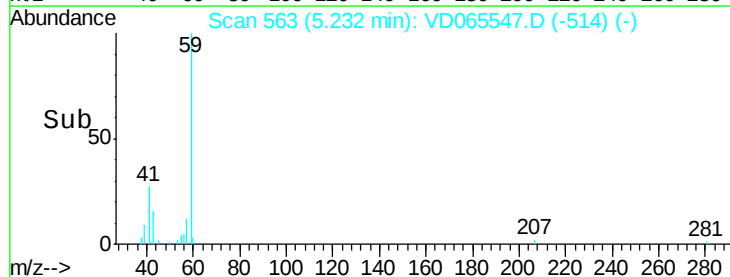
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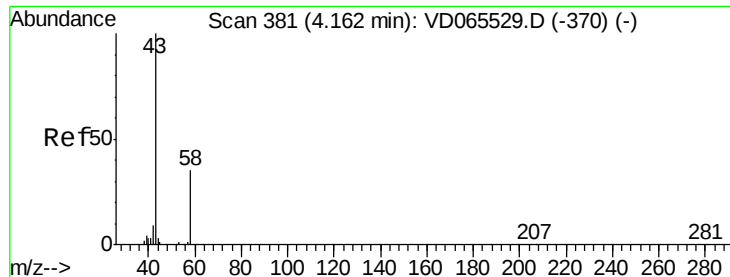
10000

5000

0

Time-->





#16

Acetone

Concen: 77874.065 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

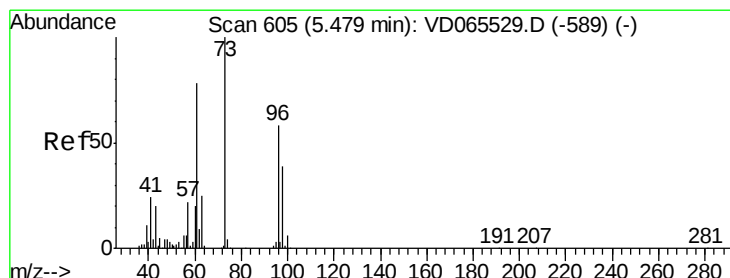
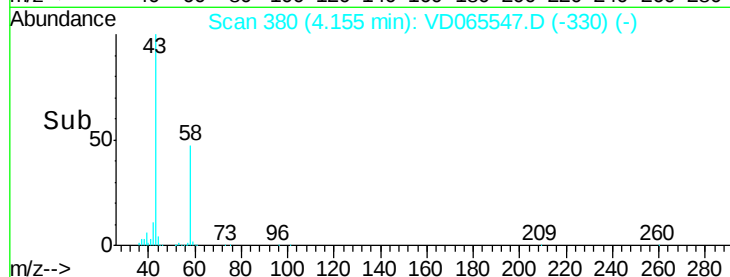
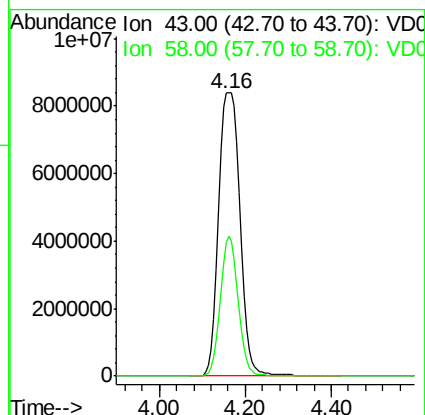
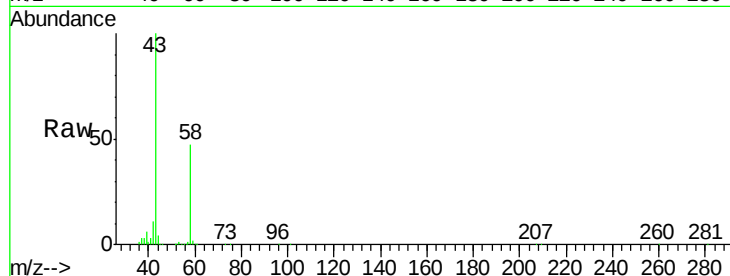
OILY-DEBRIS

Tot Ion: 43 Resp:28922211

Ion Ratio Lower Upper

43 100

58 47.1 27.9 41.9#



#19

Methyl tert-butyl Ether

Concen: 5.494 ug/l

RT: 5.48 min Scan# 606

Delta R.T. 0.01 min

Lab File: VD065547.D

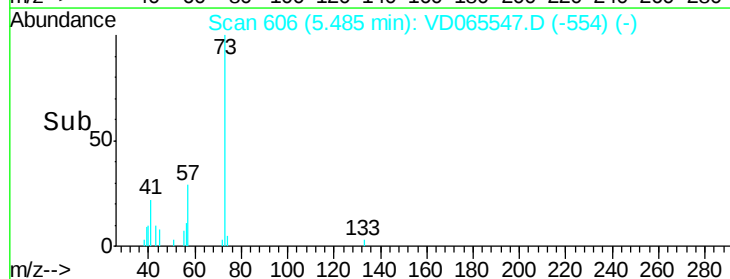
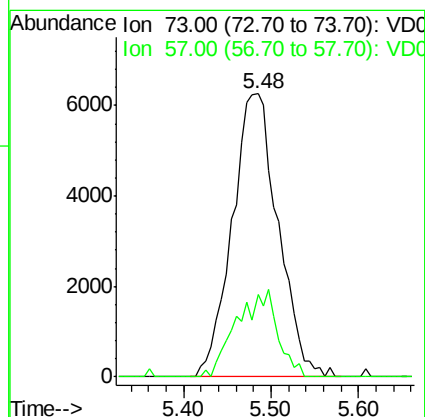
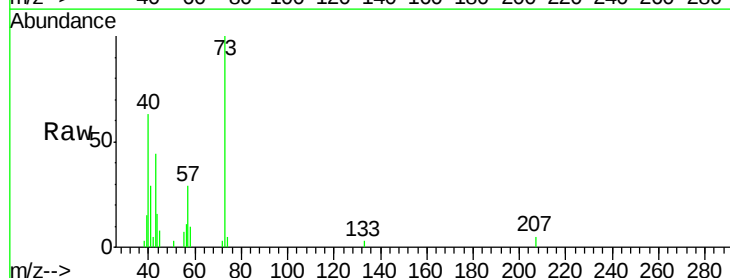
Acq: 27 Mar 2020 16:41

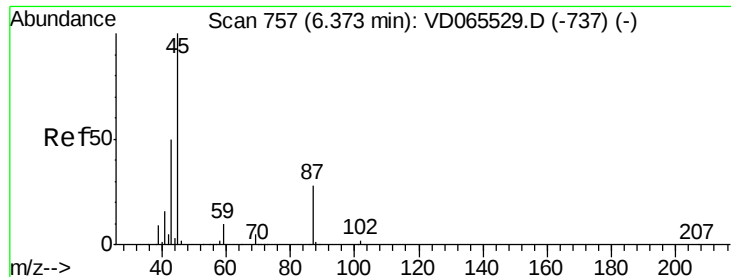
Tgt Ion: 73 Resp: 22384

Ion Ratio Lower Upper

73 100

57 29.0 17.7 26.5#





#22

Diisopropyl ether

Concen: 1.534 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

OILY-DEBRIS

Tot Ion: 45 Resp: 9249

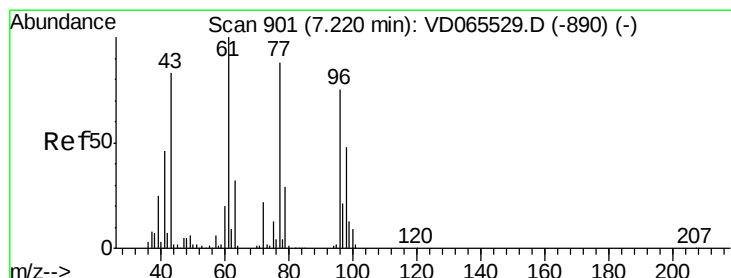
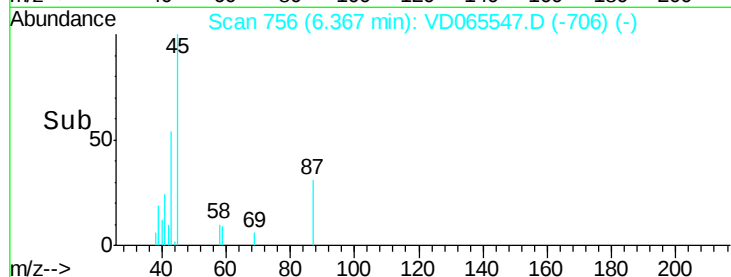
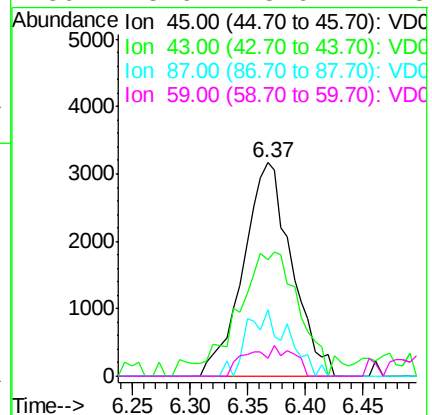
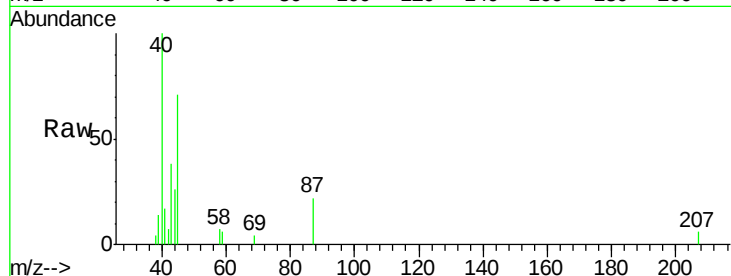
Ion Ratio Lower Upper

45 100

43 48.5 40.5 60.7

87 31.4 22.5 33.7

59 8.6 8.6 12.8#



#25

2-Butanone

Concen: 189.977 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD065547.D

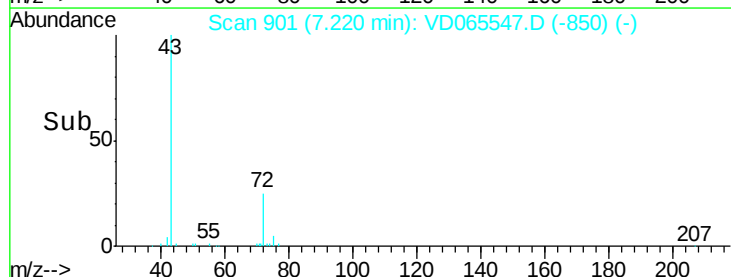
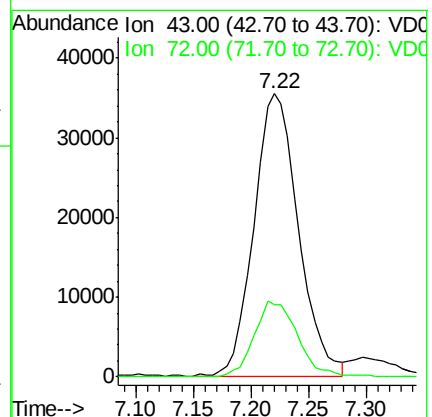
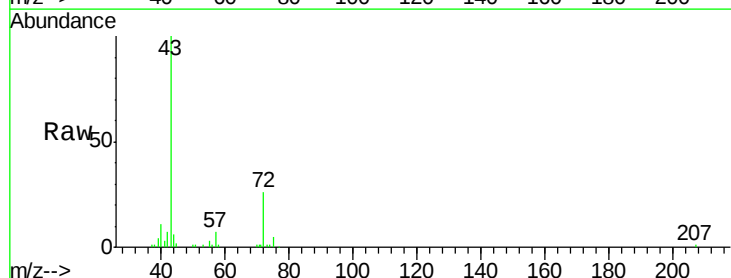
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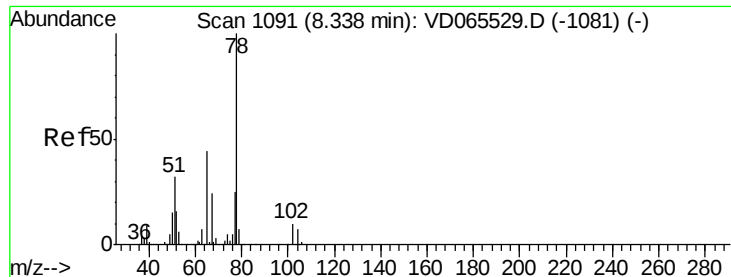
Tgt Ion: 43 Resp: 95822

Ion Ratio Lower Upper

43 100

72 25.7 21.5 32.3

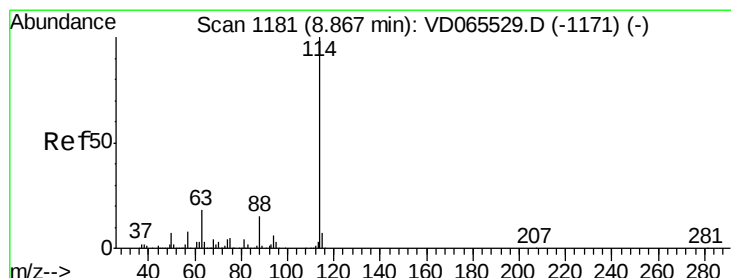
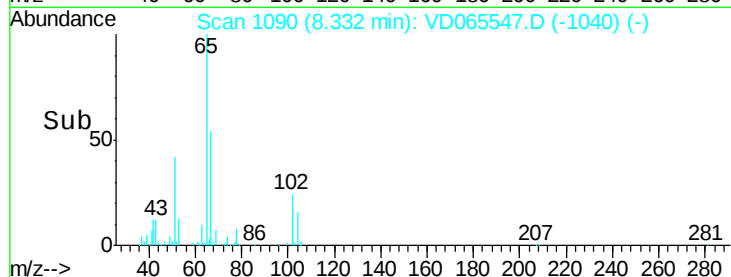
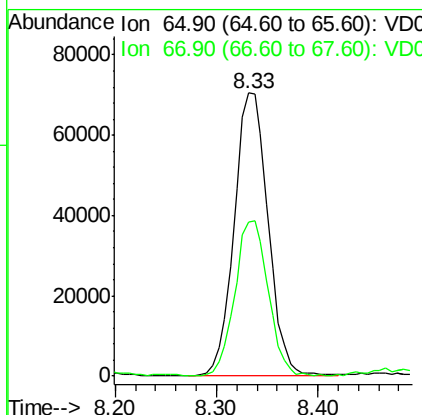
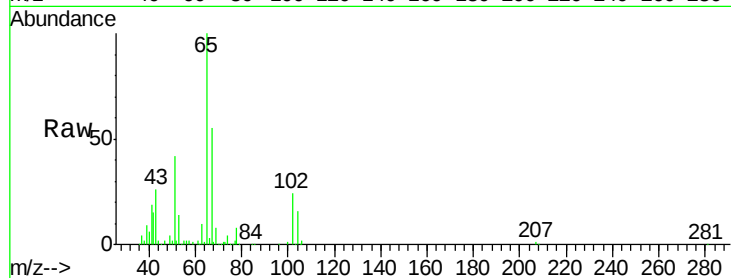




#33
 1,2-Dichloroethane-d4
 Concen: 83.138 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD065547.D
 Acq: 27 Mar 2020 16:41

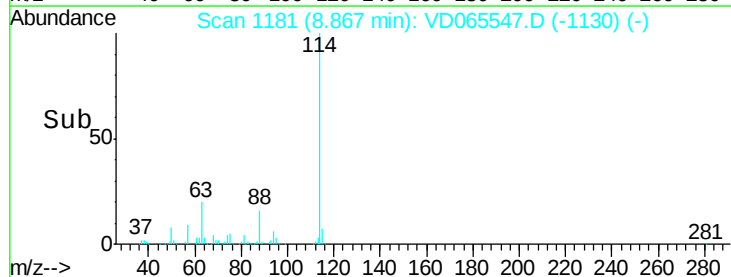
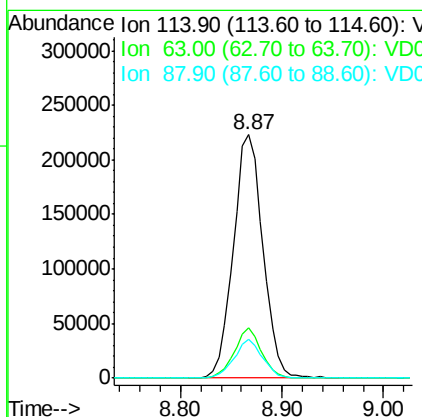
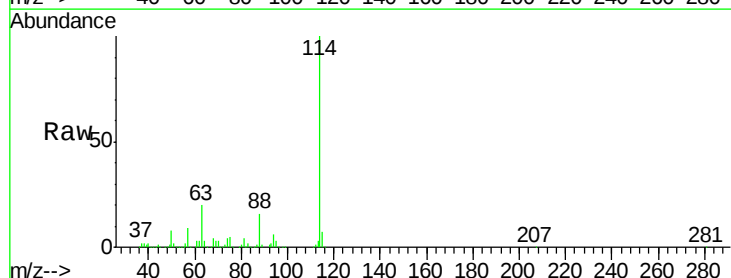
Instrument :
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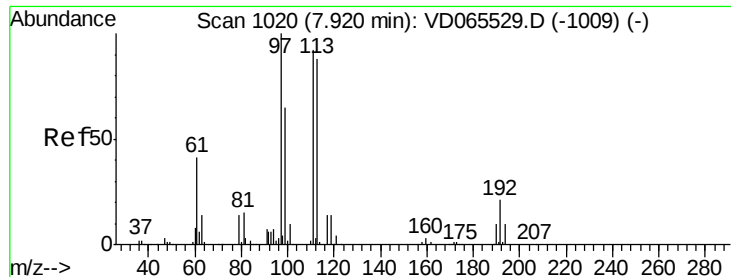
Tot Ion: 65 Resp: 163644
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065547.D
 Acq: 27 Mar 2020 16:41

Tgt Ion: 114 Resp: 451199
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 37.0
 88 16.1 0.0 30.4

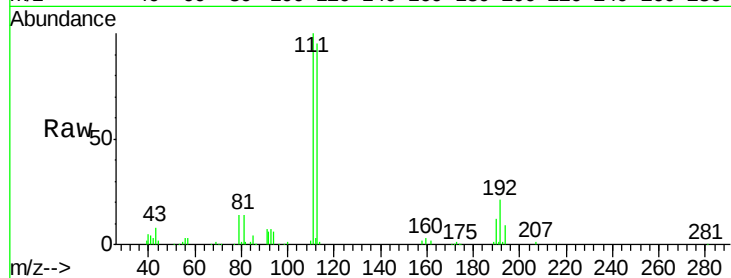




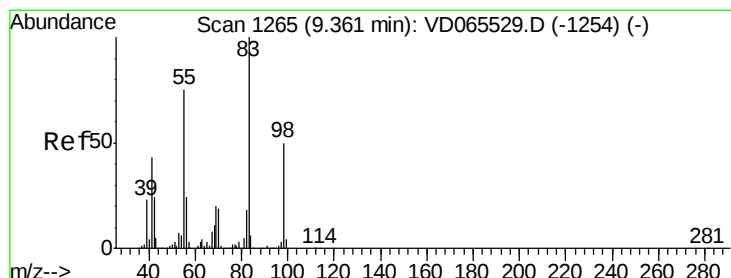
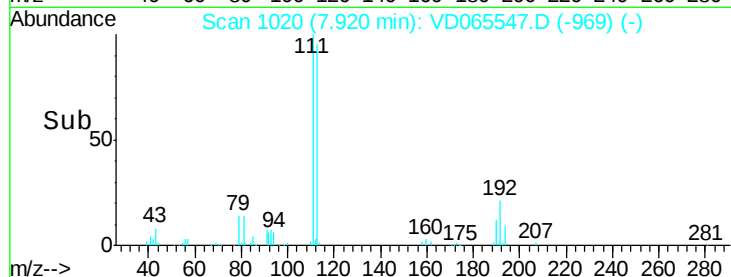
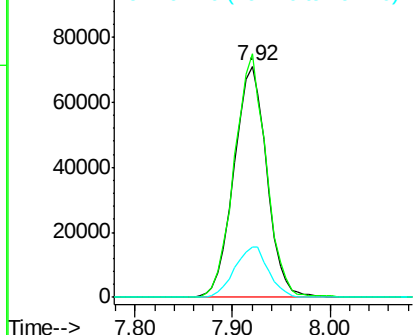
#35
Dibromofluoromethane
Concen: 59.985 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

Tot Ion:113 Resp: 167058
Ion Ratio Lower Upper
113 100
111 102.6 83.3 124.9
192 22.6 18.5 27.7

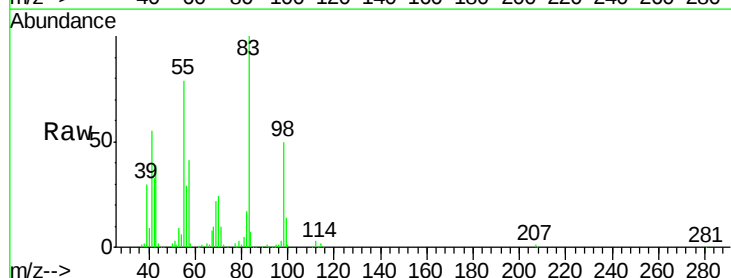


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

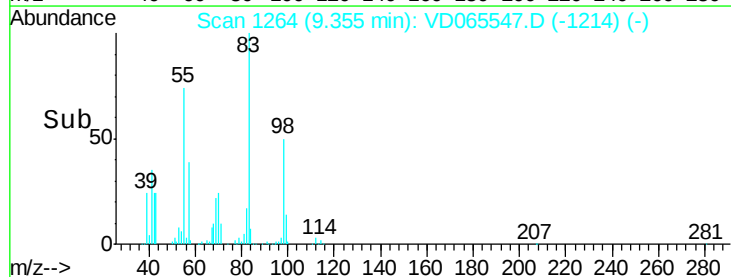
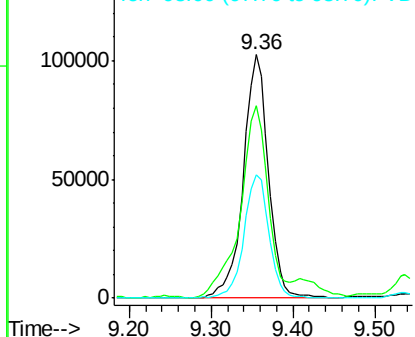


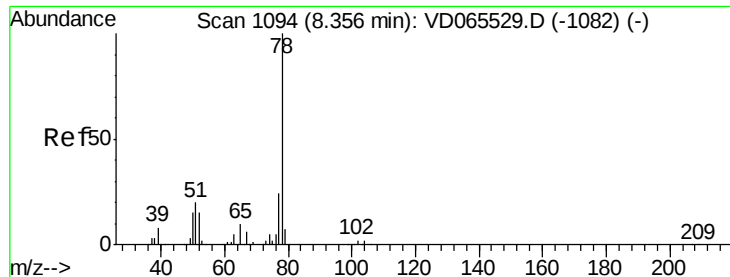
#39
Methylcyclohexane
Concen: 45.227 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

Tgt Ion: 83 Resp: 219816
Ion Ratio Lower Upper
83 100
55 78.8 59.7 89.5
98 50.4 40.2 60.2



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

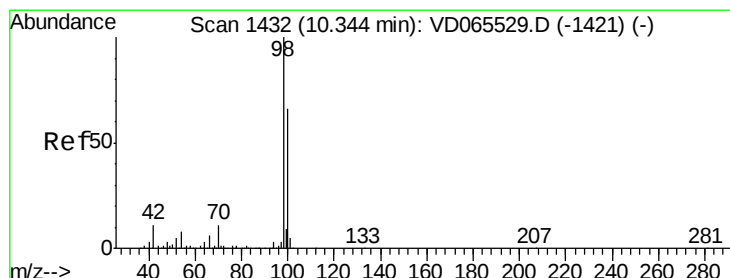
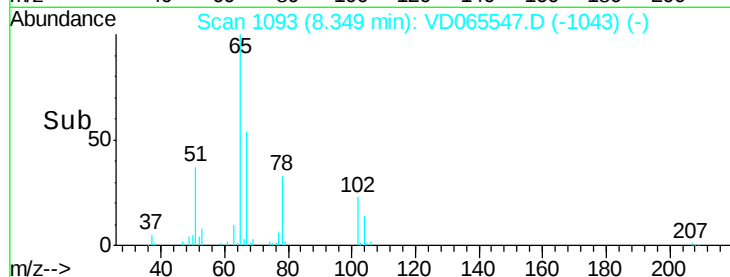
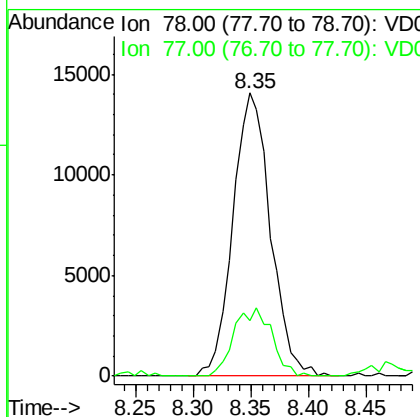
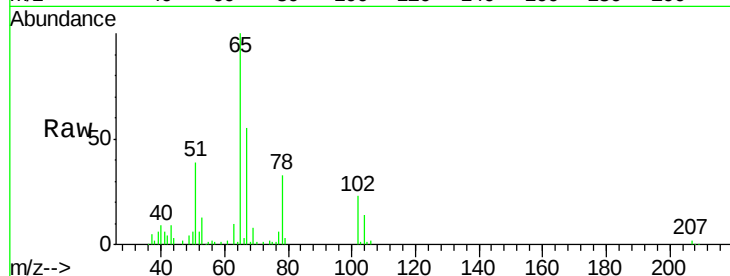




#40
Benzene
Concen: 2.697 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

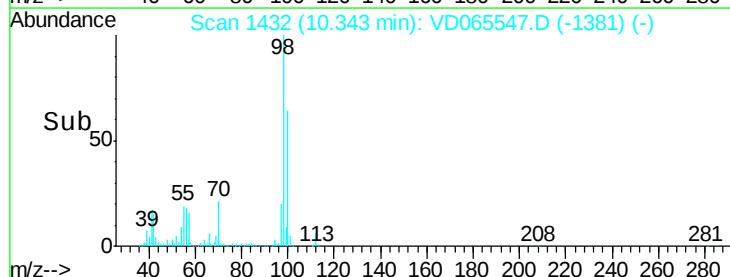
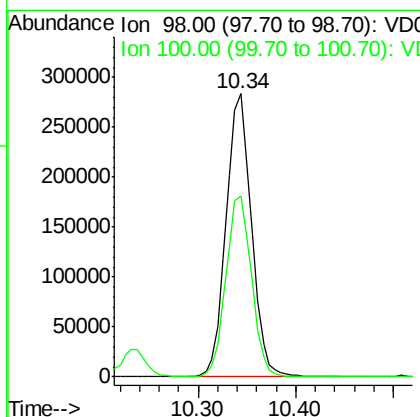
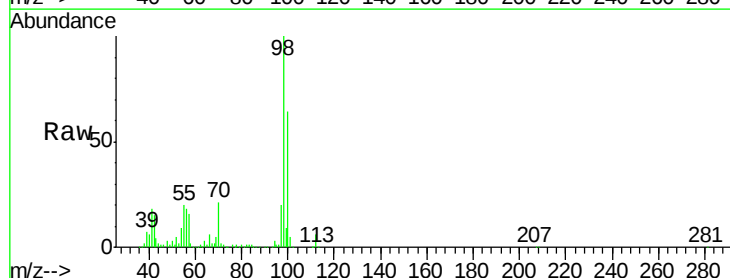
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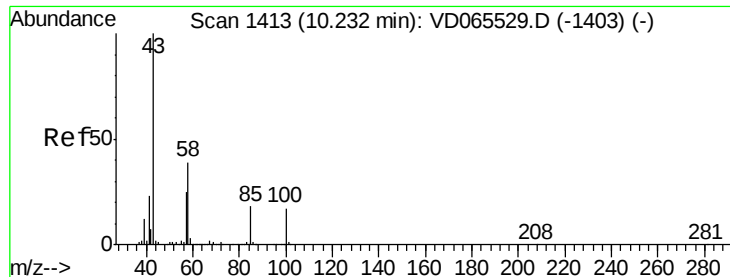
Tot Ion: 78 Resp: 31722
Ion Ratio Lower Upper
78 100
77 19.6 19.1 28.7



#50
Toluene-d8
Concen: 48.999 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

Tgt Ion: 98 Resp: 512322
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 220.040 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

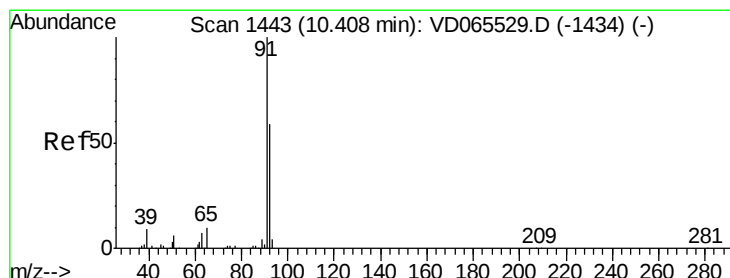
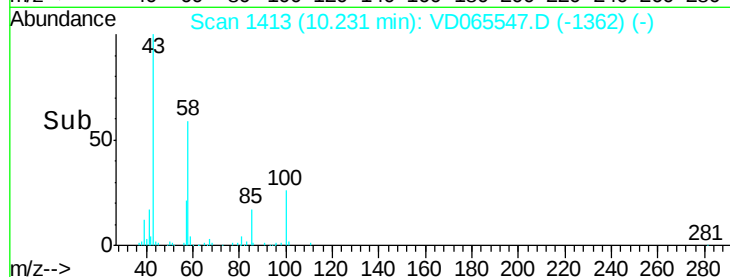
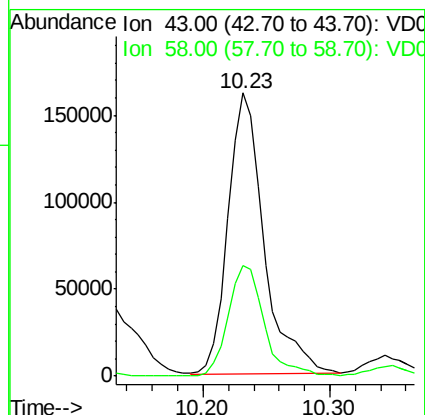
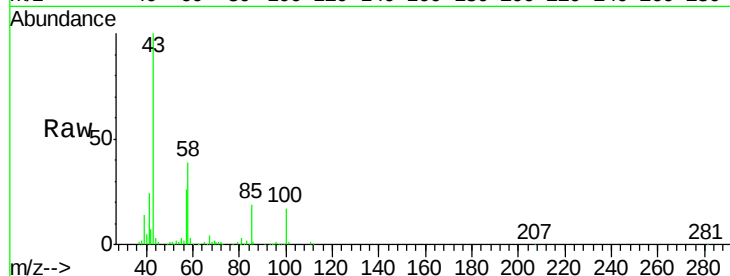
OILY-DEBRIS

Tot Ion: 43 Resp: 318197

Ion Ratio Lower Upper

43 100

58 39.2 31.4 47.2



#52

Toluene

Concen: 1315.491 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065547.D

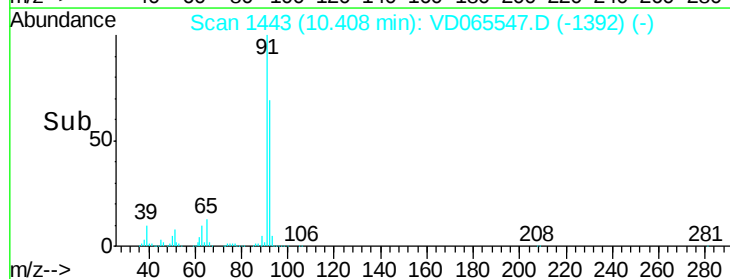
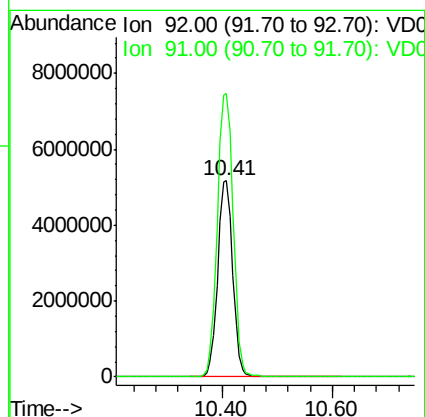
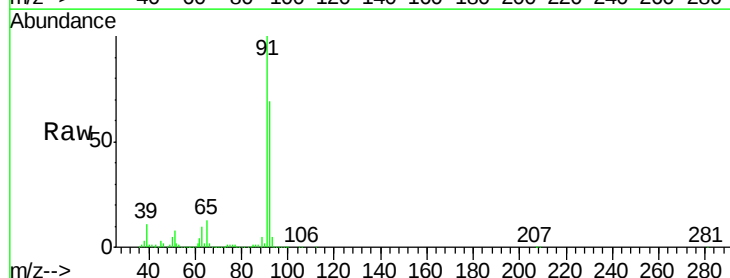
Acq: 27 Mar 2020 16:41

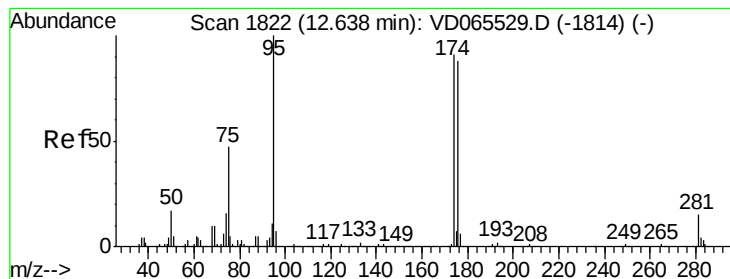
Tgt Ion: 92 Resp: 9800067

Ion Ratio Lower Upper

92 100

91 153.8 137.3 205.9





#62

4-Bromofluorobenzene

Concen: 42.343 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

OILY-DEBRIS

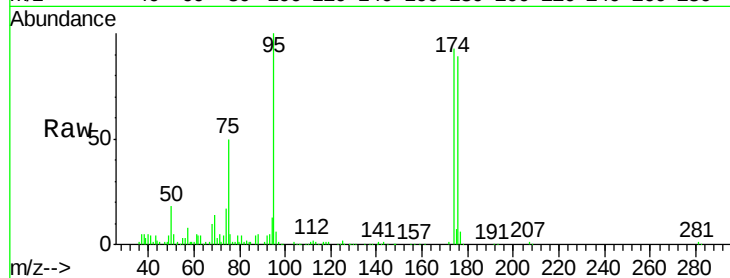
Tot Ion: 95 Resp: 140517

Ion Ratio Lower Upper

95 100

174 94.0 0.0 183.8

176 90.7 0.0 178.2



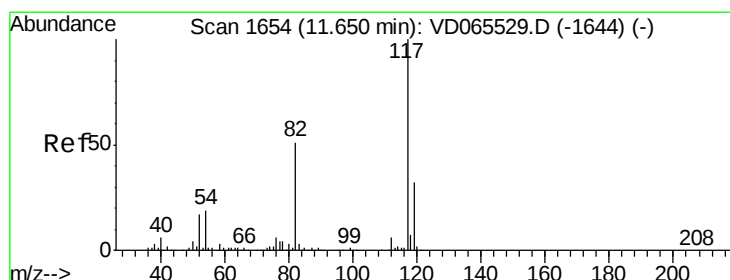
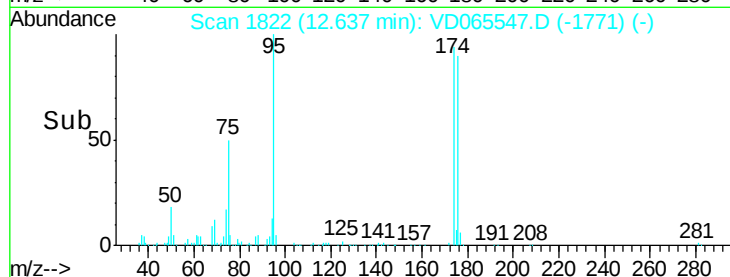
Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.64

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

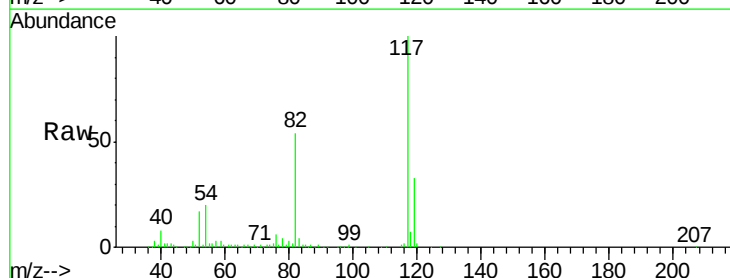
Tgt Ion: 117 Resp: 370254

Ion Ratio Lower Upper

117 100

82 53.5 41.0 61.6

119 32.7 25.5 38.3



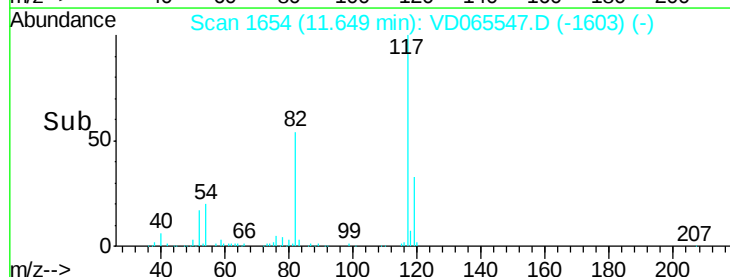
Abundance Ion 116.90 (116.60 to 117.60): V

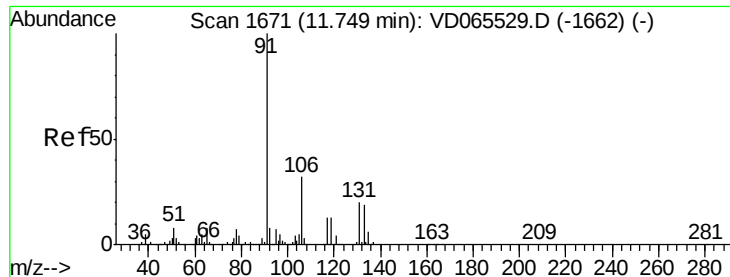
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

11.65

Time-->





#67

Ethyl Benzene

Concen: 89.236 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

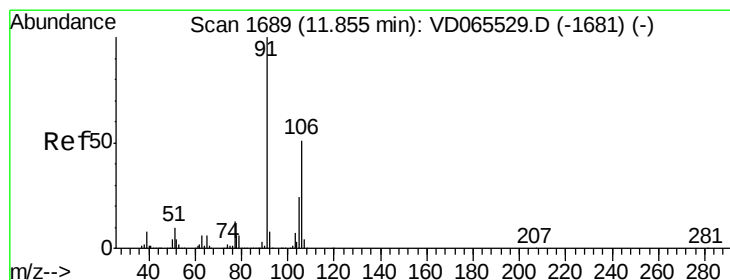
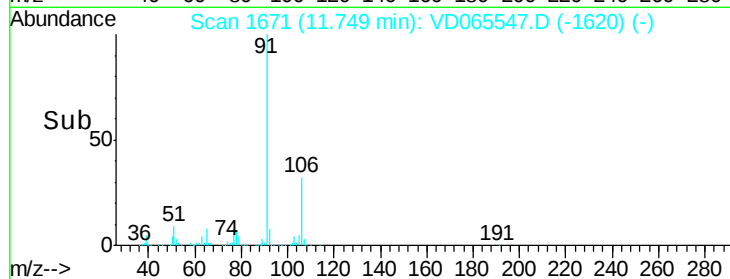
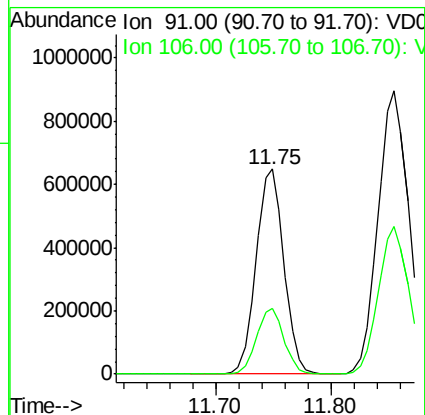
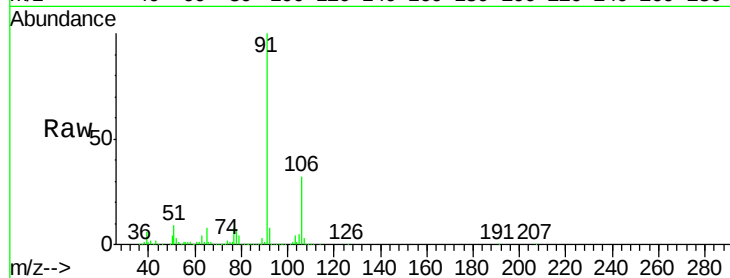
OILY-DEBRIS

Tot Ion: 91 Resp: 1087954

Ion Ratio Lower Upper

91 100

106 32.1 25.4 38.0



#68

m/p-Xylenes

Concen: 180.621 ug/l

RT: 11.85 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD065547.D

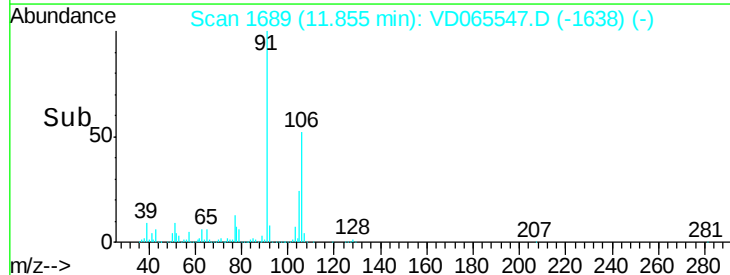
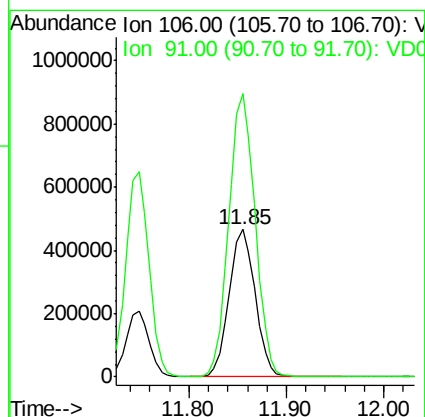
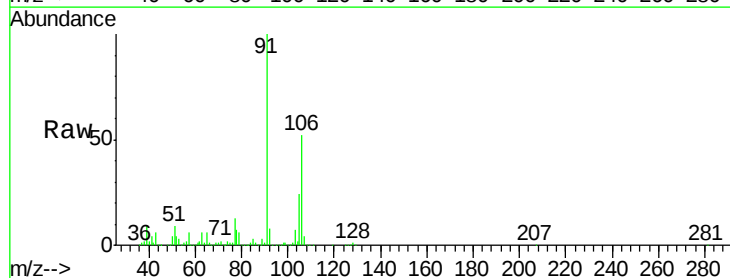
Acq: 27 Mar 2020 16:41

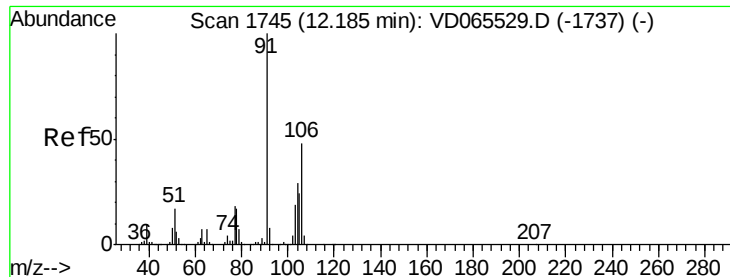
Tgt Ion: 106 Resp: 864641

Ion Ratio Lower Upper

106 100

91 193.8 155.4 233.0

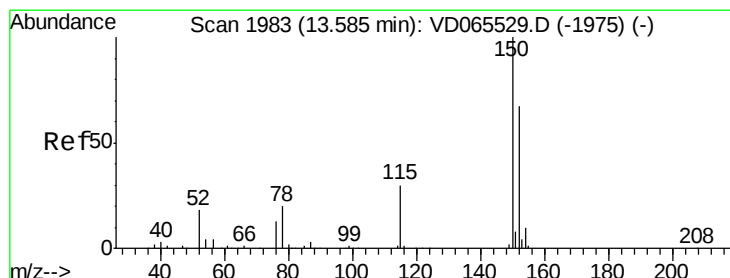
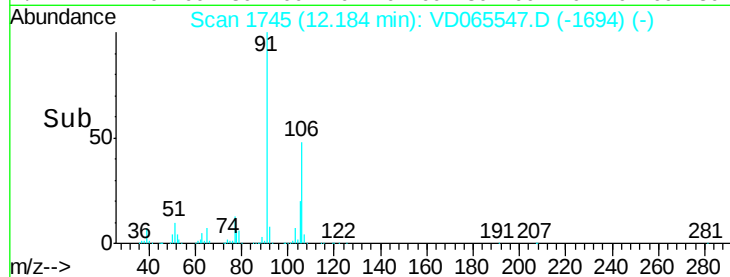
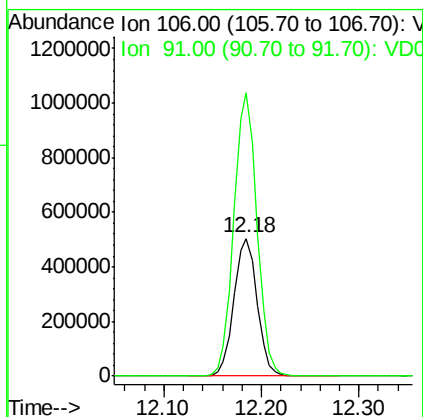
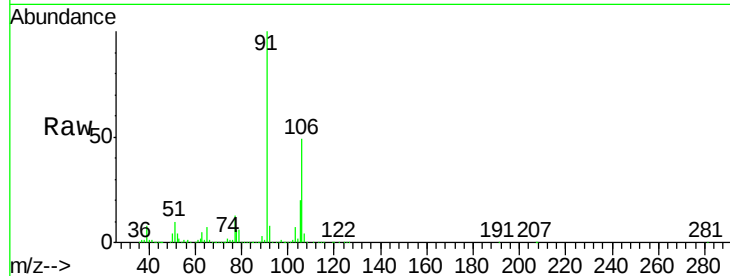




#69
o-Xylene
Concen: 198.256 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

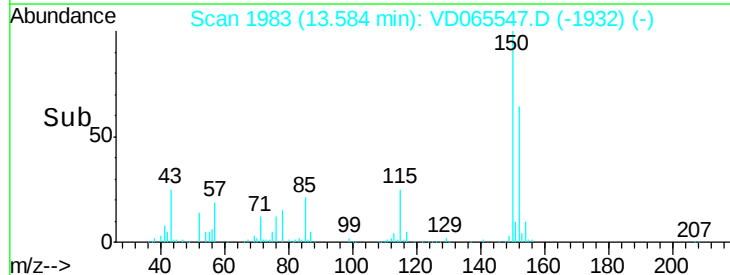
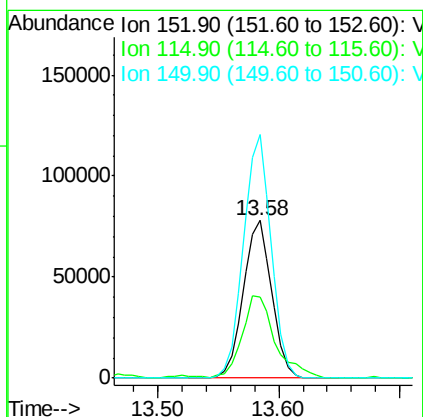
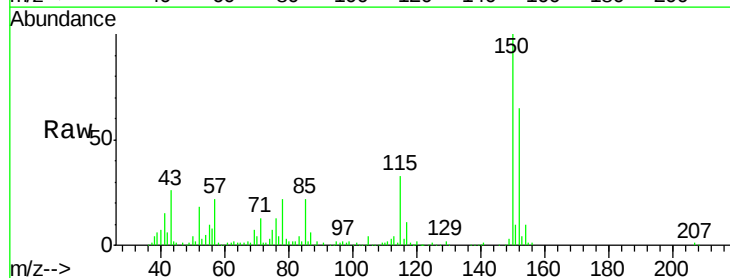
Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

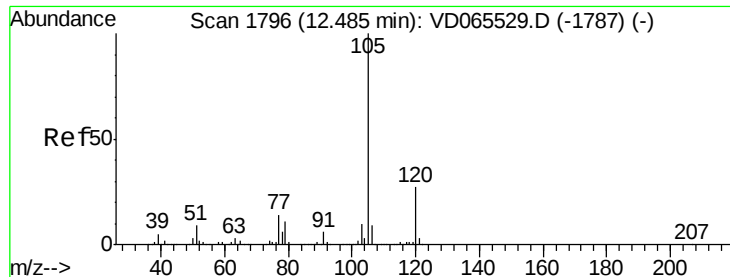
Tot Ion:106 Resp: 831161
Ion Ratio Lower Upper
106 100
91 204.5 102.8 308.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

Tgt Ion:152 Resp: 128049
Ion Ratio Lower Upper
152 100
115 60.6 27.2 81.6
150 150.5 0.0 340.2





#73

Isopropylbenzene

Concen: 11.162 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

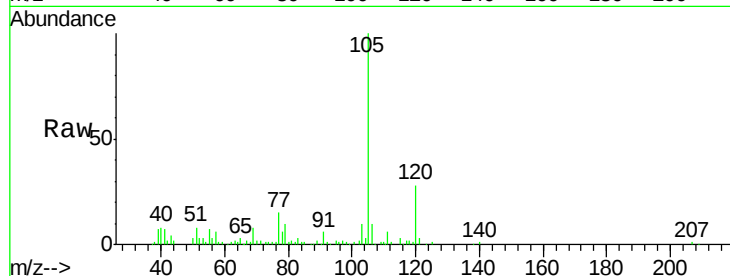
OILY-DEBRIS

Tot Ion:105 Resp: 87763

Ion Ratio Lower Upper

105 100

120 27.0 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

60000

50000

40000

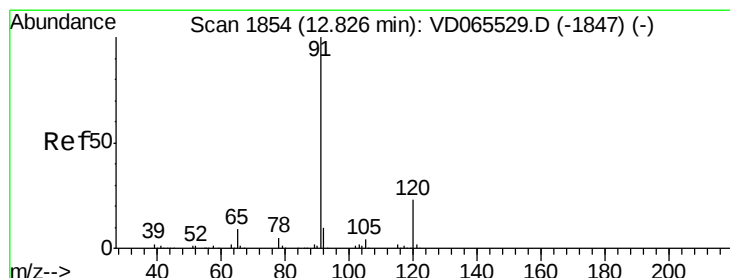
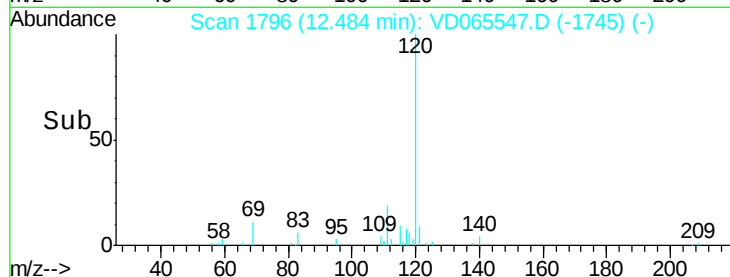
30000

20000

10000

0

Time-->



#78

n-propylbenzene

Concen: 24.371 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD065547.D

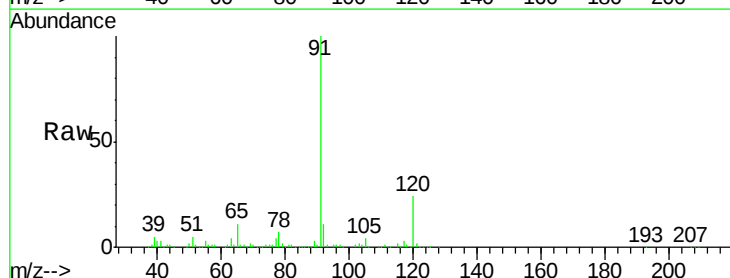
Acq: 27 Mar 2020 16:41

Tgt Ion: 91 Resp: 228409

Ion Ratio Lower Upper

91 100

120 23.5 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

12.83

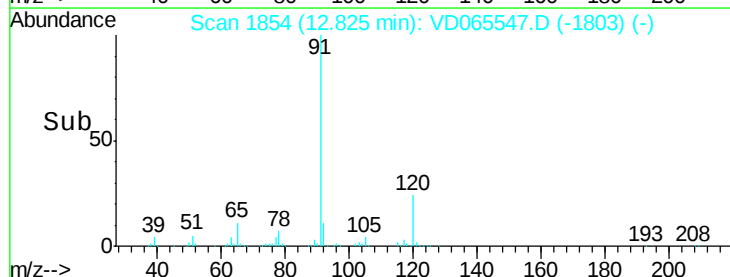
150000

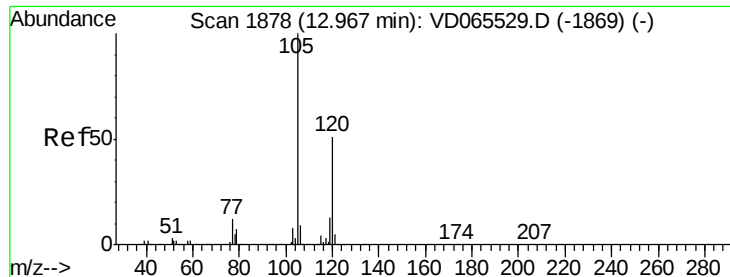
100000

50000

0

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 39.729 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065547.D

Acq: 27 Mar 2020 16:41

Instrument :

MSVOA_D

ClientSampleId :

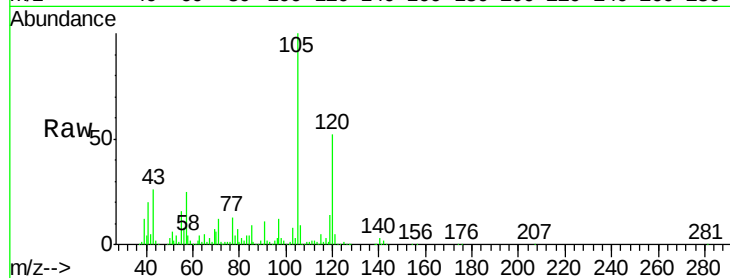
OILY-DEBRIS

Tot Ion:105 Resp: 258916

Ion Ratio Lower Upper

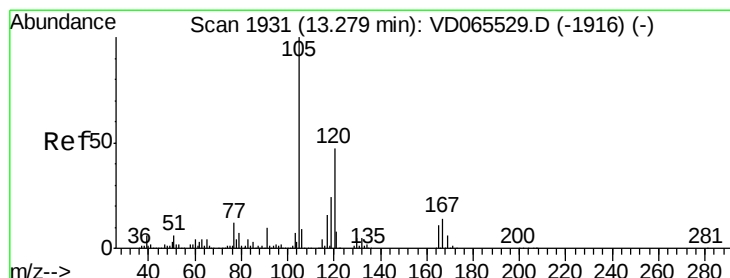
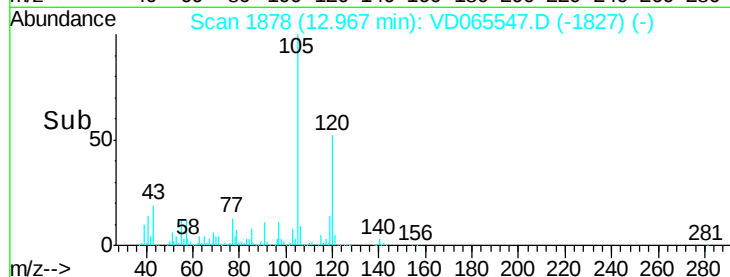
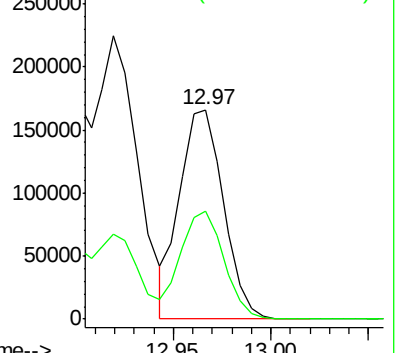
105 100

120 51.0 25.6 76.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 82.437 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD065547.D

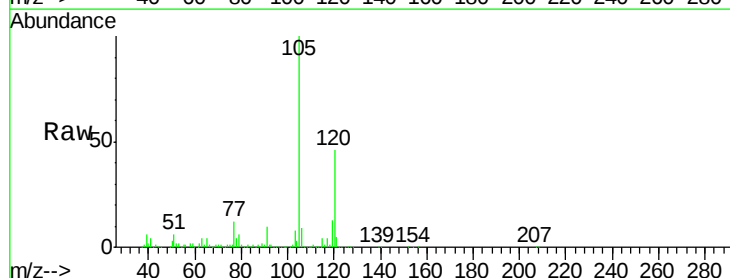
Acq: 27 Mar 2020 16:41

Tgt Ion:105 Resp: 537099

Ion Ratio Lower Upper

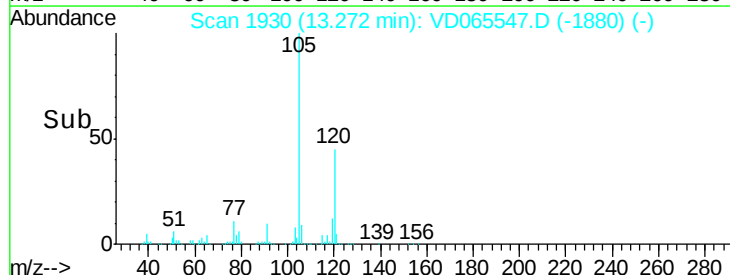
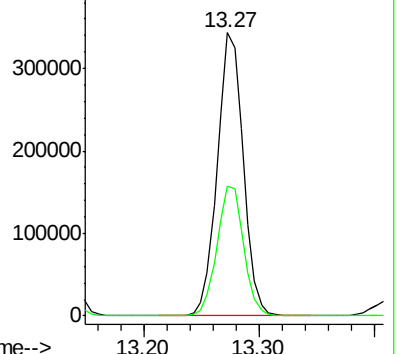
105 100

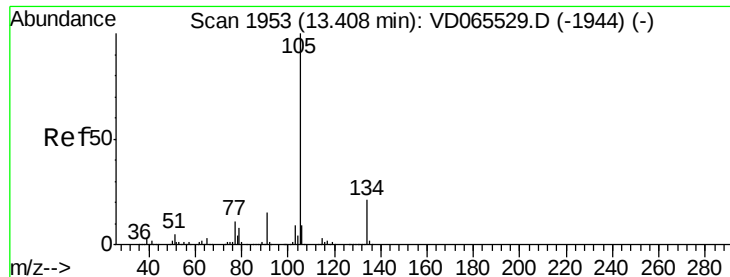
120 47.0 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

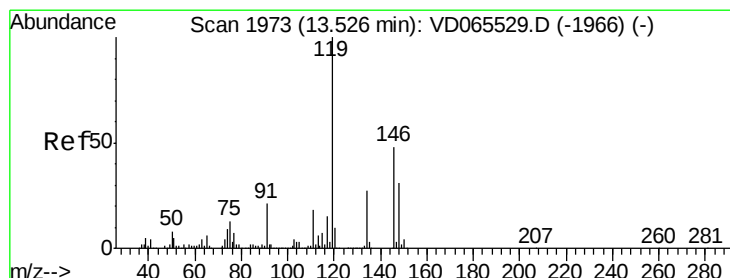
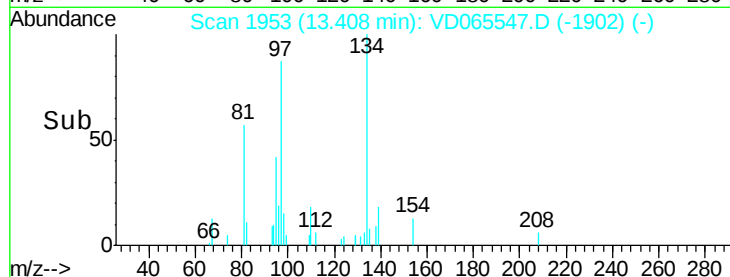
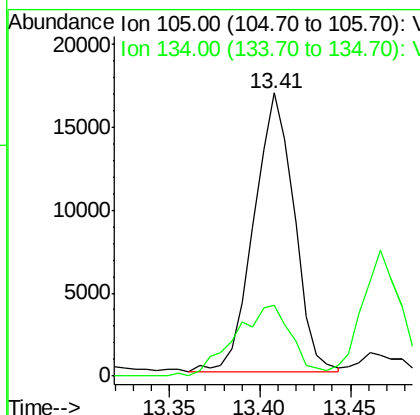
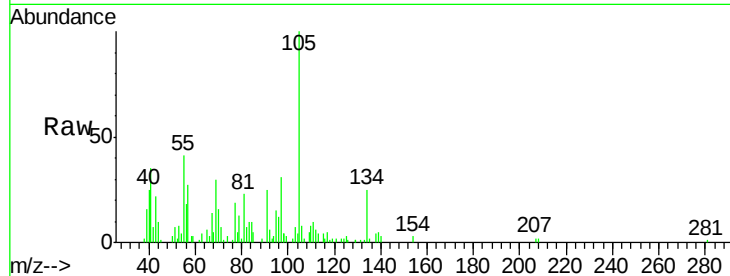




#85
 sec-Butylbenzene
 Concen: 3.339 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.00 min
 Lab File: VD065547.D
 Acq: 27 Mar 2020 16:41

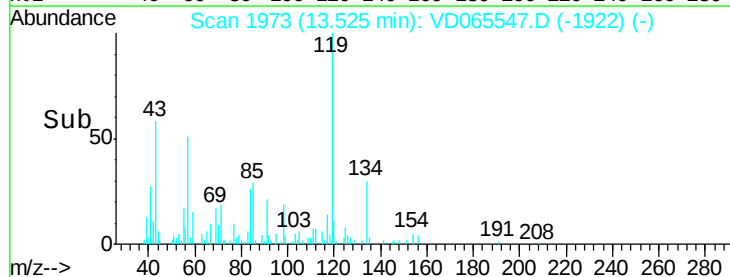
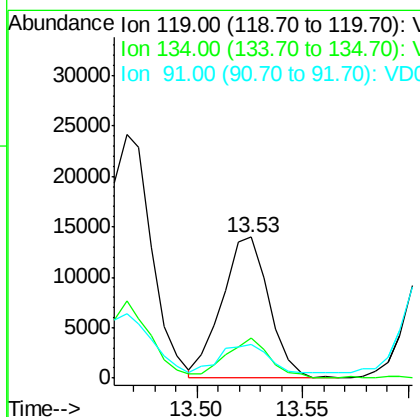
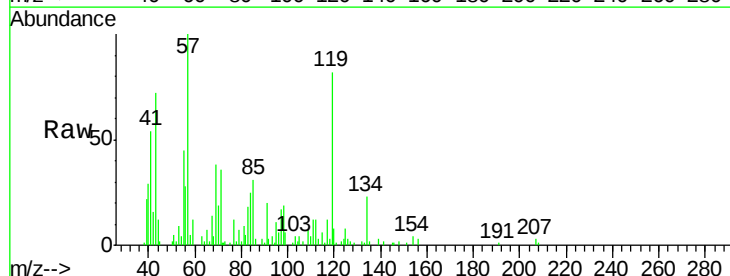
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-DEBRIS

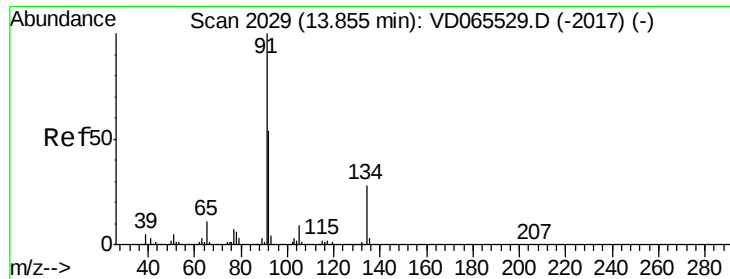
Tot Ion:105 Resp: 26079
 Ion Ratio Lower Upper
 105 100
 134 36.0 10.6 31.8#



#86
 p-Isopropyltoluene
 Concen: 3.002 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD065547.D
 Acq: 27 Mar 2020 16:41

Tgt Ion:119 Resp: 21608
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.5 40.5
 91 20.8 10.8 32.3

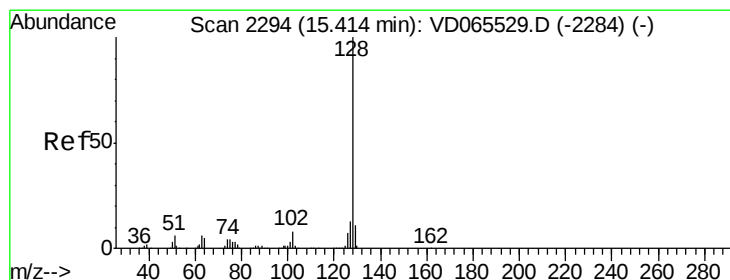
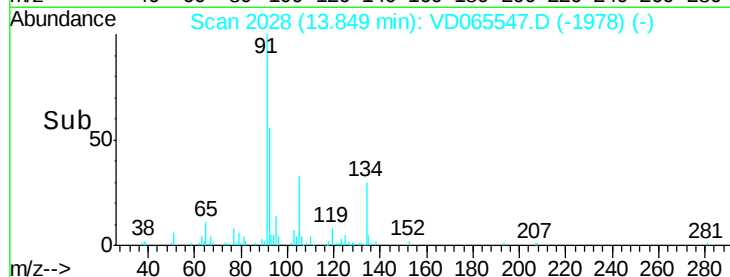
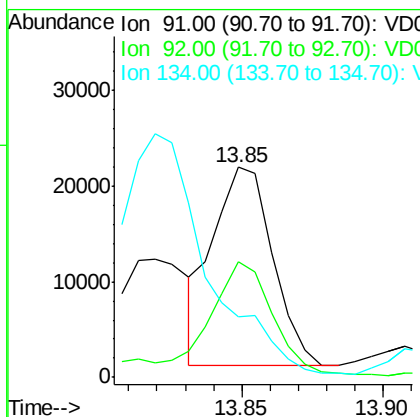
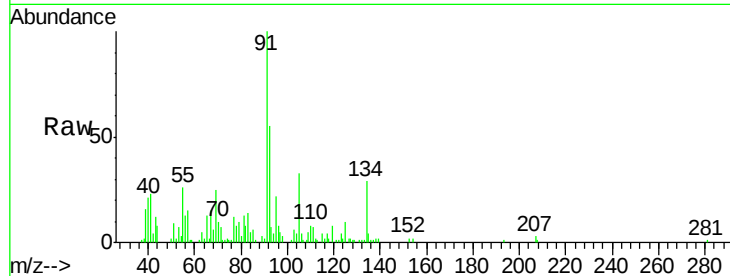




#89
n-Butylbenzene
Concen: 4.662 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.01 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

Instrument :
MSVOA_D
ClientSampleId :
OILY-DEBRIS

Tot Ion: 91 Resp: 30476
Ion Ratio Lower Upper
91 100
92 65.6 26.8 80.4
134 0.0 13.7 41.0#



#95
Naphthalene
Concen: 20.314 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD065547.D
Acq: 27 Mar 2020 16:41

Tgt Ion: 128 Resp: 69232
Ion Ratio Lower Upper
128 100
127 13.2 10.4 15.6
129 11.9 8.7 13.1

