

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080720\
 Data File : VD066153.D
 Acq On : 07 Aug 2020 13:07
 Operator : VA/SY
 Sample : L3555-01
 Misc : 7.84G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 N-23729

Quant Time: Aug 08 00:38:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

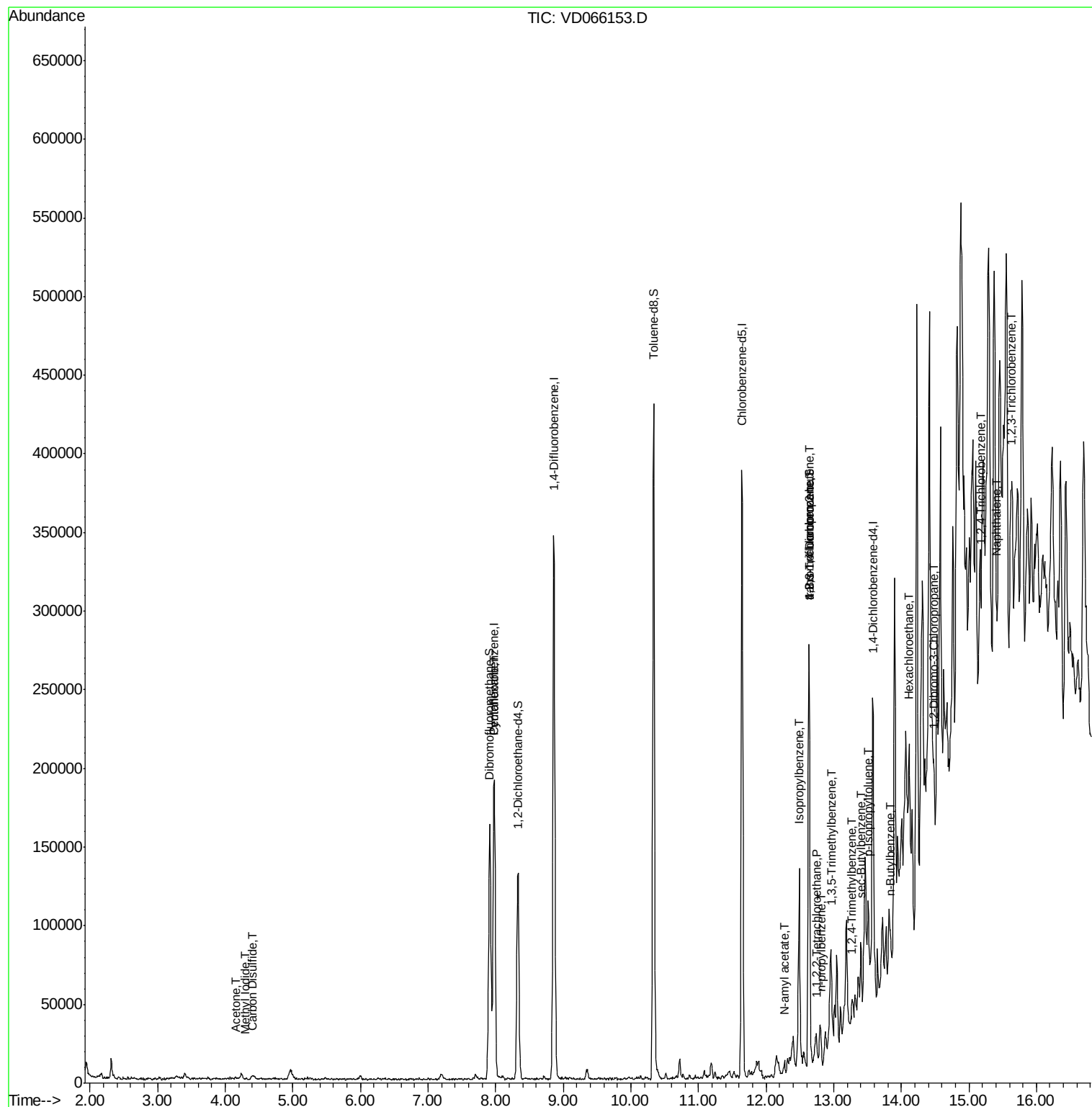
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	150511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	307191	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	230558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	52836	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	104468	77.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	155.60%	
35) Dibromofluoromethane	7.91	113	115265	59.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.46%	
50) Toluene-d8	10.34	98	292088	40.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.34%	
62) 4-Bromofluorobenzene	12.64	95	82461	31.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.72%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.29	142	348	6.945	ug/l #	60
11) Tert butyl alcohol	5.22	59	1332	Below Cal	#	76
16) Acetone	4.16	43	2058	8.077	ug/l #	69
17) Carbon Disulfide	4.40	76	5223	1.232	ug/l	98
20) Methylene Chloride	4.96	84	4589	Below Cal		91
31) Cyclohexane	7.98	56	3921	1.667	ug/l #	58
73) Isopropylbenzene	12.48	105	7727	2.191	ug/l #	71
74) N-amyl acetate	12.27	43	3128	4.028	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.76	83	655	1.089	ug/l #	26
76) 1,2,3-Trichloropropane	12.63	75	40919	92.868	ug/l #	100
78) n-propylbenzene	12.82	91	4417	1.077	ug/l	88
80) 1,3,5-Trimethylbenzene	12.97	105	4611	1.563	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	40919	205.290	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.27	105	8878	3.008	ug/l	96
85) sec-Butylbenzene	13.41	105	22147	6.324	ug/l	98
86) p-Isopropyltoluene	13.52	119	14125	4.300	ug/l	94
89) n-Butylbenzene	13.85	91	4866	1.653	ug/l #	65
90) Hexachloroethane	14.11	117	3018	4.607	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.49	75	356	3.444	ug/l #	4
93) 1,2,4-Trichlorobenzene	15.18	180	1606	1.444	ug/l #	1
95) Naphthalene	15.41	128	2291	1.264	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.62	180	2840	2.893	ug/l #	13

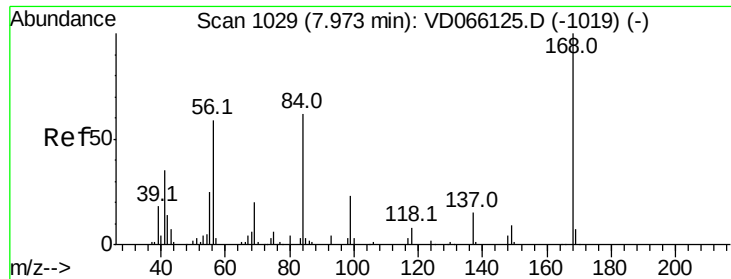
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

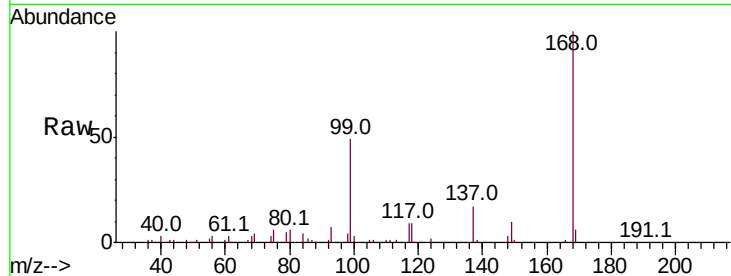
N-23729

Tot Ion:168 Resp: 150511

Ion Ratio Lower Upper

168 100

99 49.2 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

60000

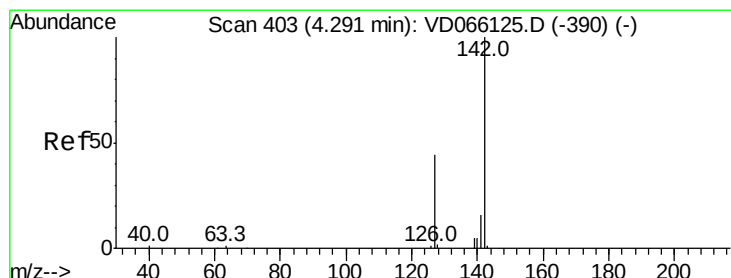
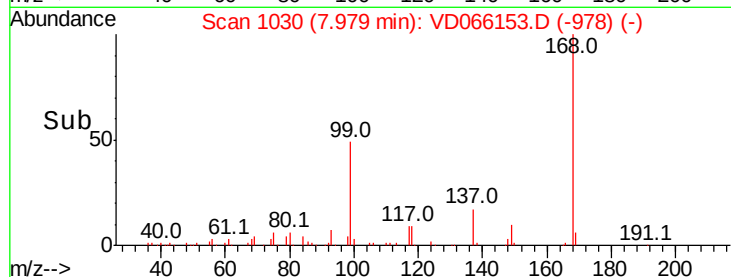
40000

20000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 6.945 ug/l

RT: 4.29 min Scan# 403

Delta R.T. 0.00 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

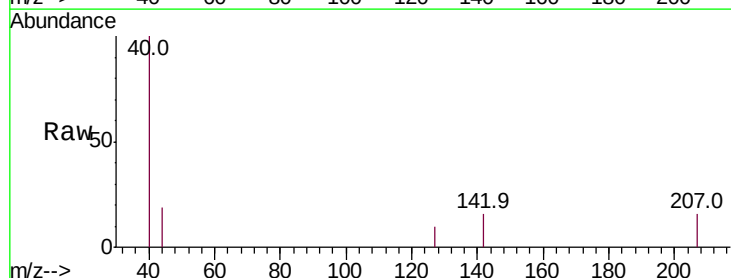
Tgt Ion:142 Resp: 348

Ion Ratio Lower Upper

142 100

127 18.1 36.2 54.4#

141 0.0 12.6 18.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.29

500

400

300

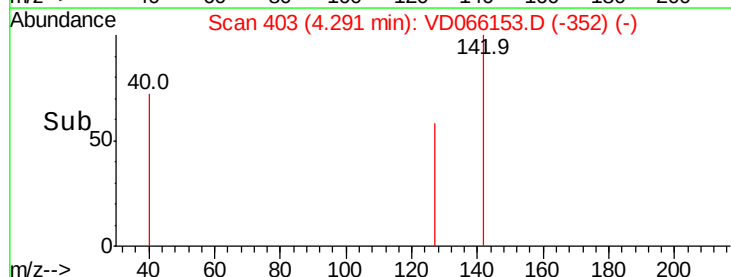
200

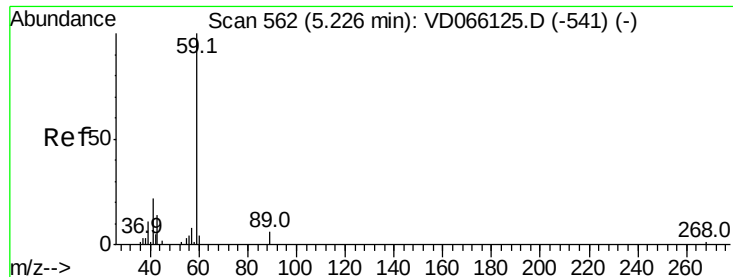
100

0

4.26 4.28 4.30

Time-->



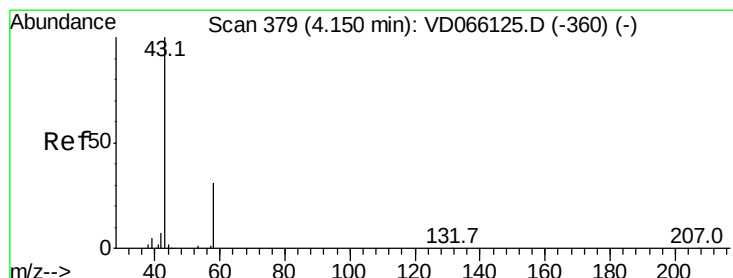
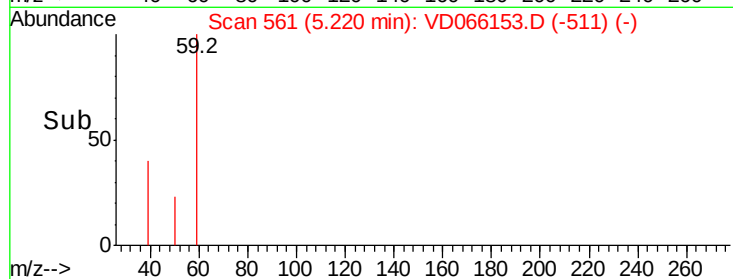
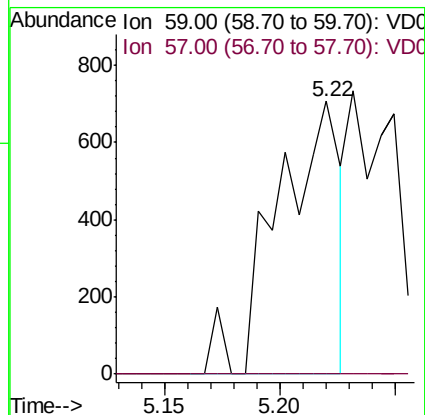
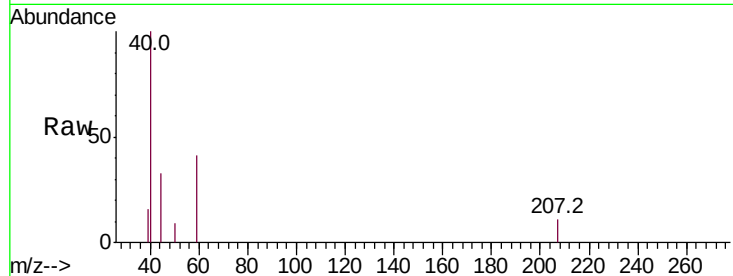


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.22 min Scan# 561
 Delta R.T. -0.01 min
 Lab File: VD066153.D
 Acq: 07 Aug 2020 13:07

Instrument :
 MSVOA_D
 ClientSampleId :
 N-23729

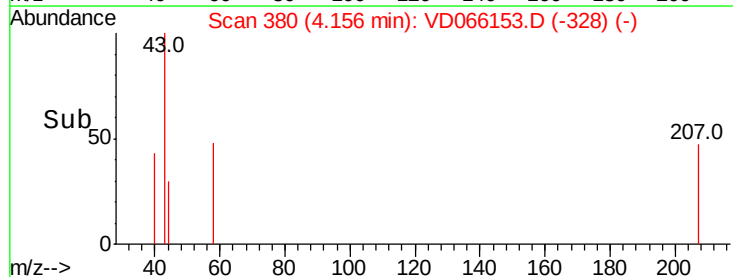
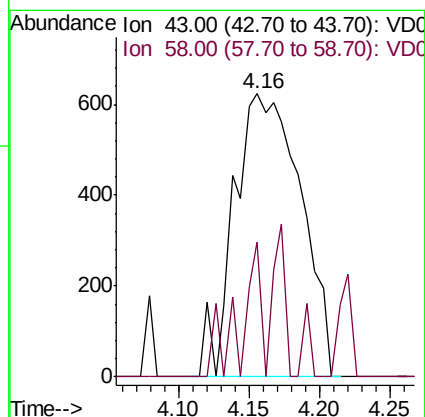
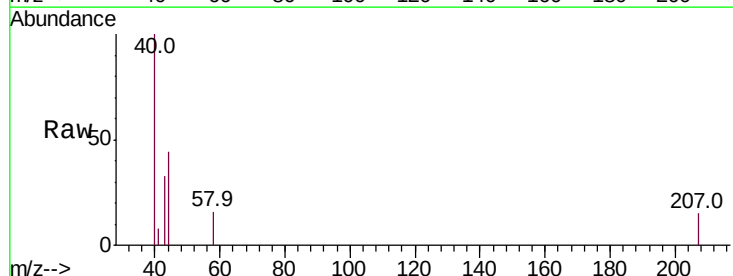
Tot Ion: 59 Resp: 1332
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.0 10.4#

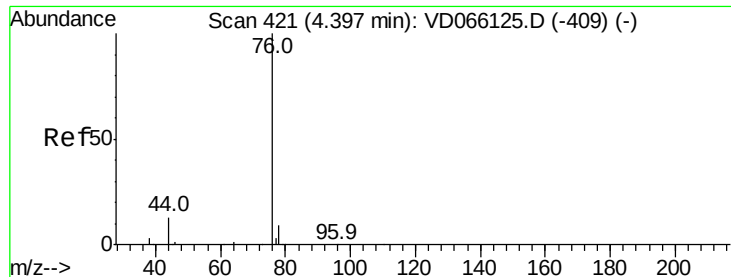


#16

Acetone
 Concen: 8.077 ug/l
 RT: 4.16 min Scan# 380
 Delta R.T. 0.01 min
 Lab File: VD066153.D
 Acq: 07 Aug 2020 13:07

Tgt Ion: 43 Resp: 2058
 Ion Ratio Lower Upper
 43 100
 58 47.8 24.7 37.1#





#17

Carbon Disulfide

Concen: 1.232 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.01 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

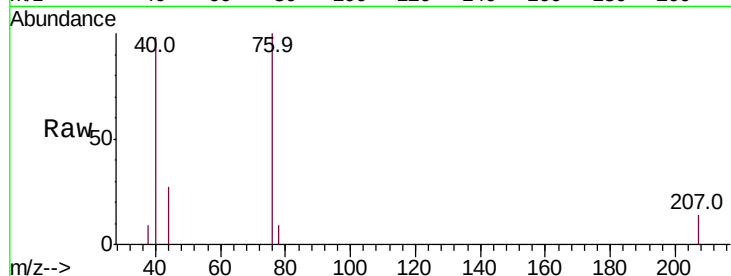
N-23729

Tot Ion: 76 Resp: 5223

Ion Ratio Lower Upper

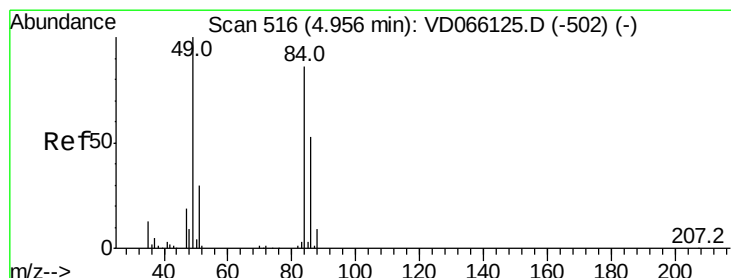
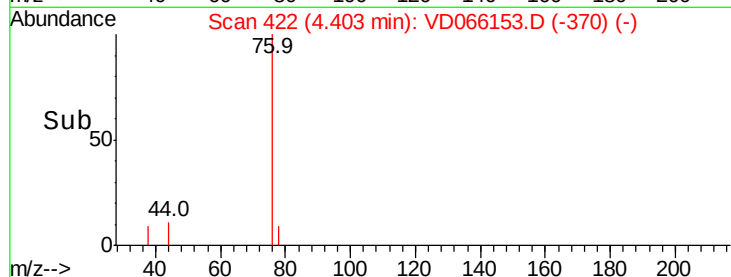
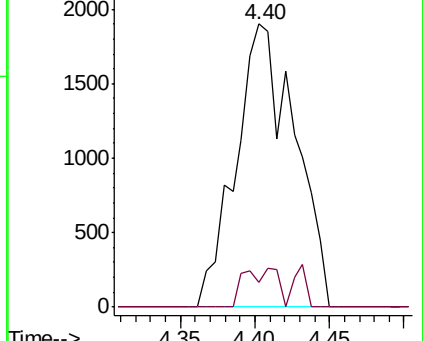
76 100

78 8.8 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.01 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Tgt Ion: 84 Resp: 4589

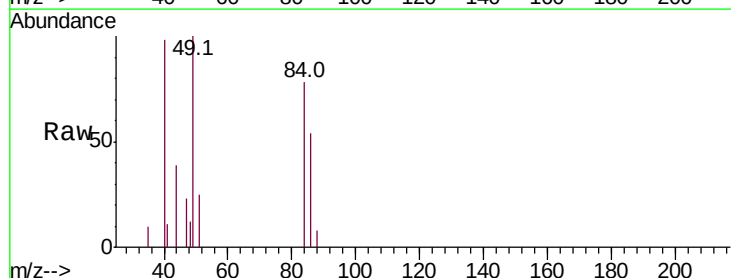
Ion Ratio Lower Upper

84 100

49 127.7 93.5 140.3

51 32.5 28.2 42.4

86 68.6 49.5 74.3

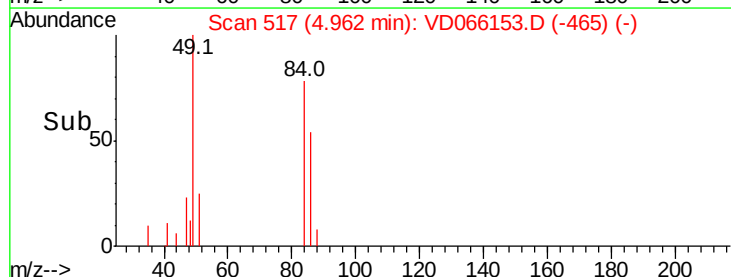
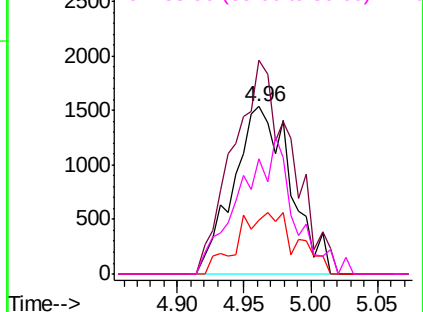


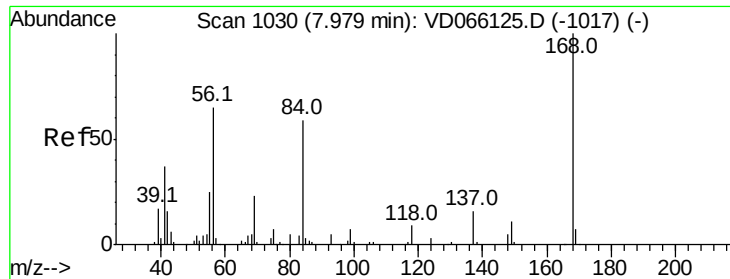
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

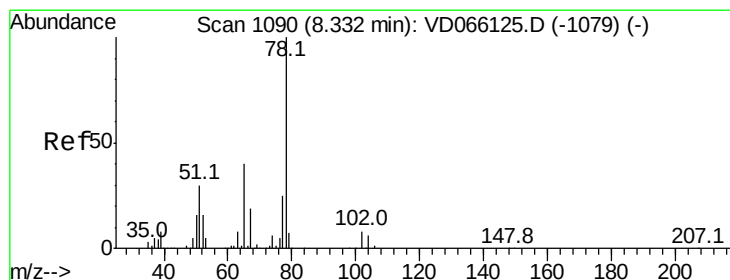
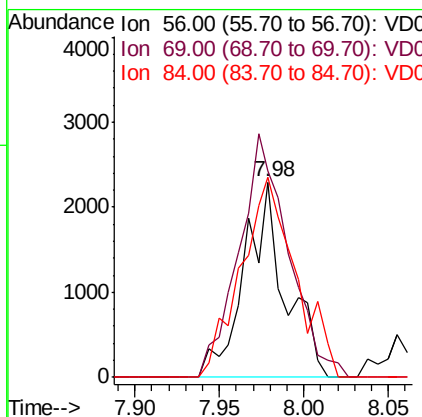
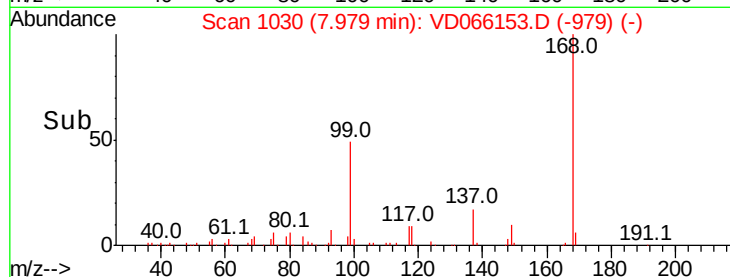
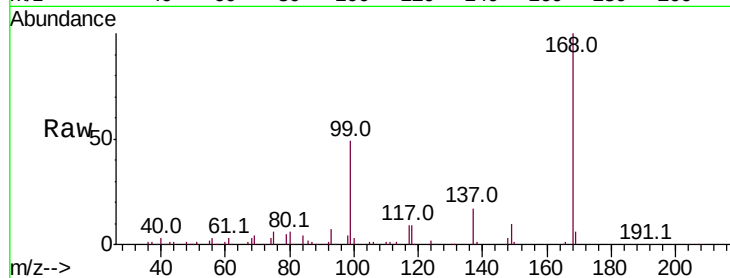




#31
Cyclohexane
Concen: 1.667 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

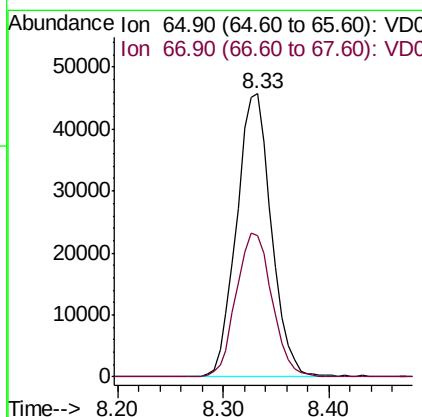
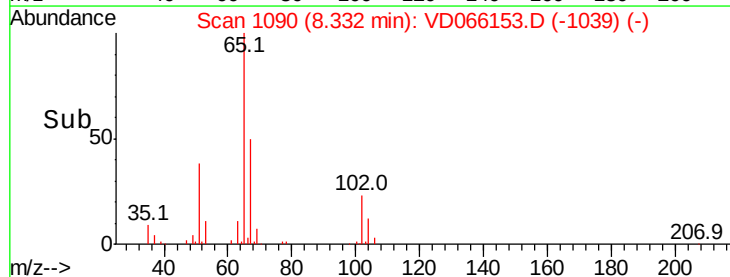
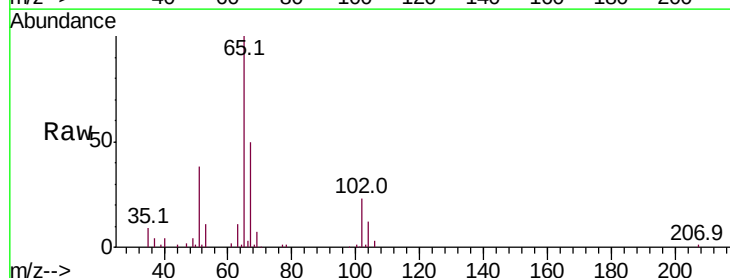
Instrument :
MSVOA_D
ClientSampleId :
N-23729

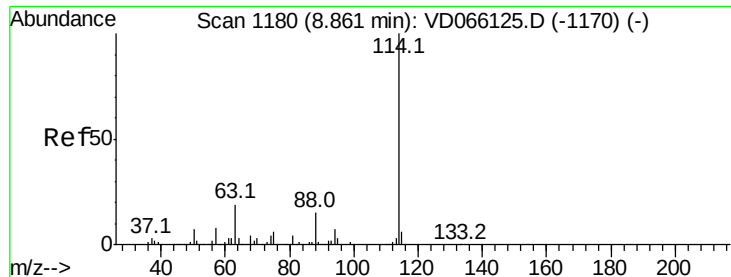
Tot Ion: 56 Resp: 3921
Ion Ratio Lower Upper
56 100
69 105.7 28.8 43.2#
84 102.4 73.0 109.6



#33
1,2-Dichloroethane-d4
Concen: 77.799 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

Tgt Ion: 65 Resp: 104468
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.6

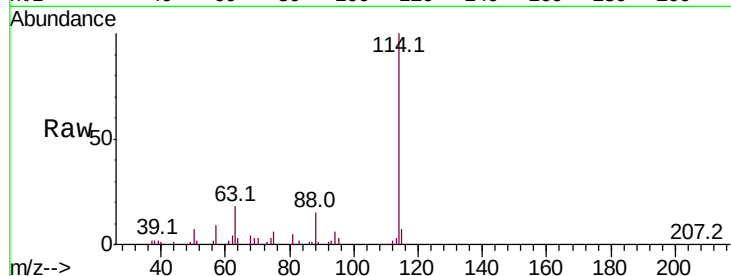




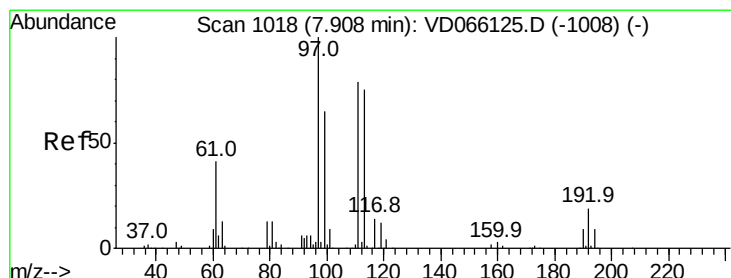
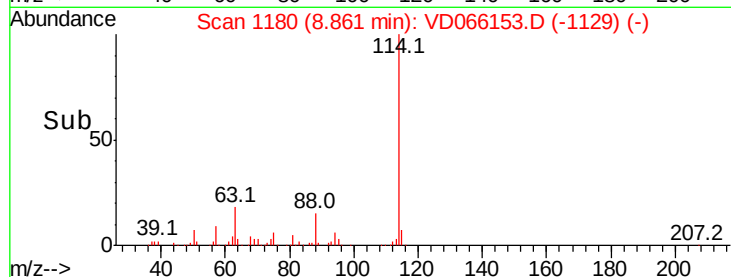
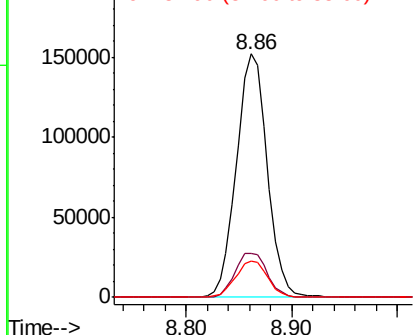
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066153.D
 Acq: 07 Aug 2020 13:07

Instrument :
 MSVOA_D
 ClientSampleId :
 N-23729

Tot Ion:114	Resp:	307191
Ion	Ratio	Lower Upper
114	100	
63	18.0	0.0 38.6
88	14.8	0.0 30.0

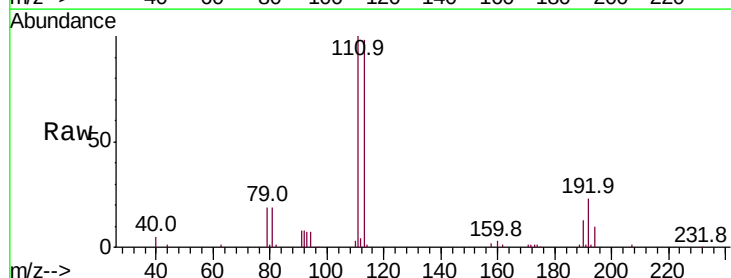


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

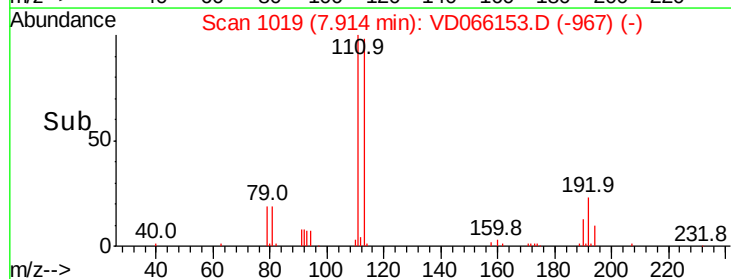
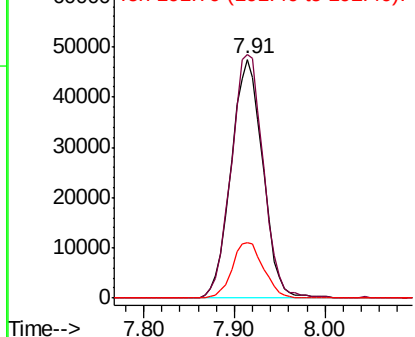


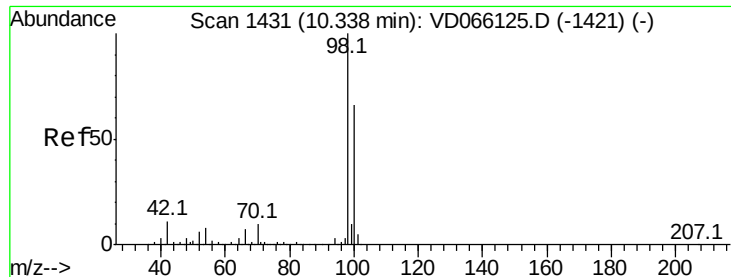
#35
 Dibromofluoromethane
 Concen: 59.231 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066153.D
 Acq: 07 Aug 2020 13:07

Tgt Ion:113	Resp:	115265
Ion	Ratio	Lower Upper
113	100	
111	103.7	80.7 121.1
192	23.1	18.4 27.6



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

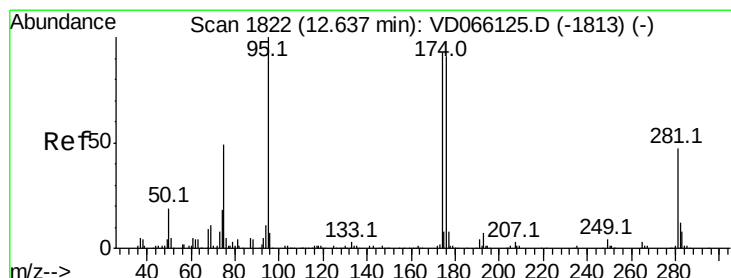
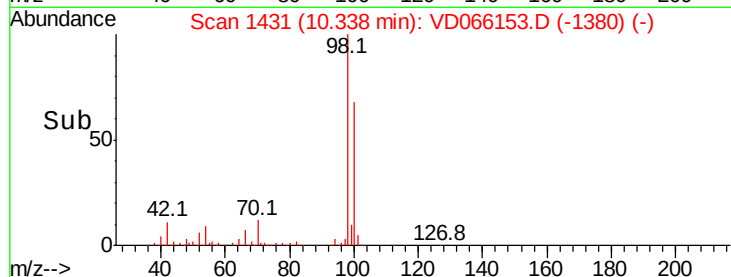
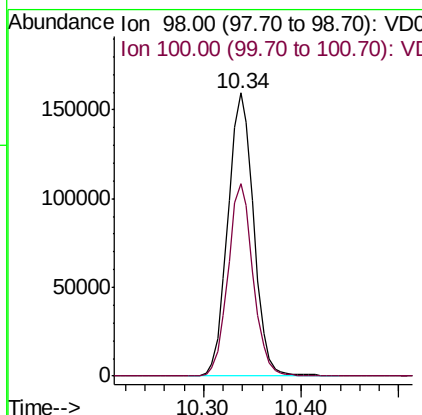
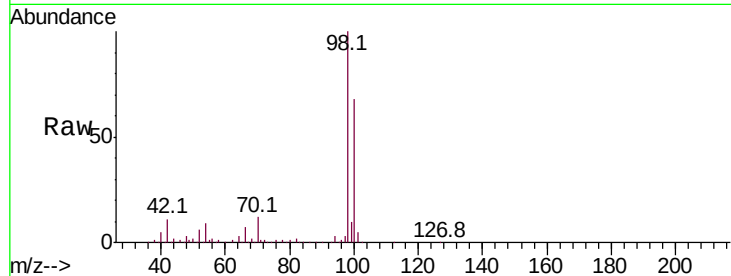




#50
Toluene-d8
Concen: 40.673 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

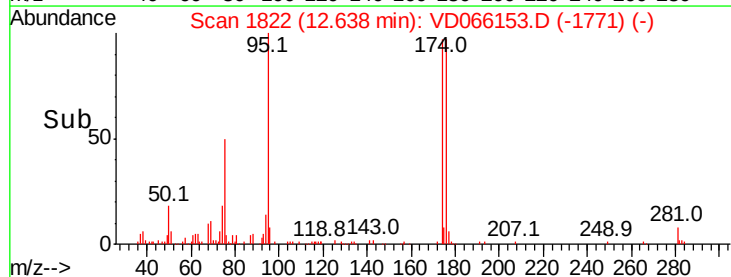
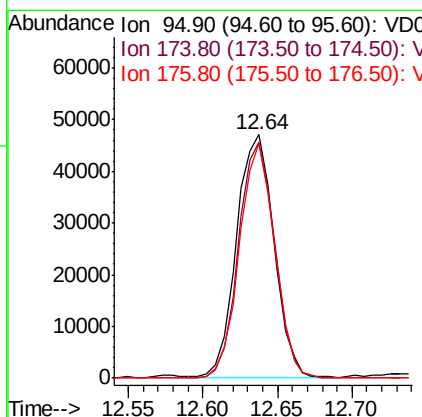
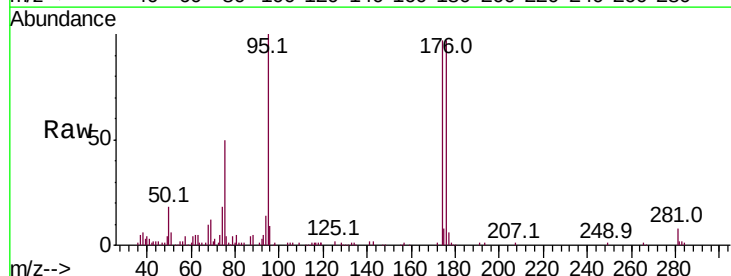
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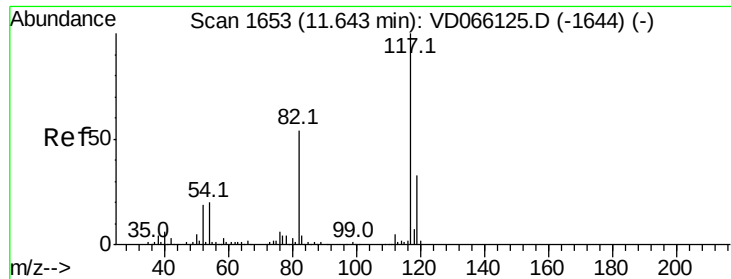
Tot Ion: 98 Resp: 292088
Ion Ratio Lower Upper
98 100
100 65.9 52.6 78.8



#62
4-Bromofluorobenzene
Concen: 31.856 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

Tgt Ion: 95 Resp: 82461
Ion Ratio Lower Upper
95 100
174 92.8 0.0 180.8
176 90.1 0.0 181.2

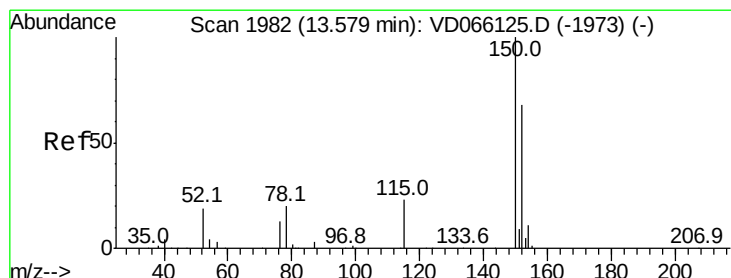
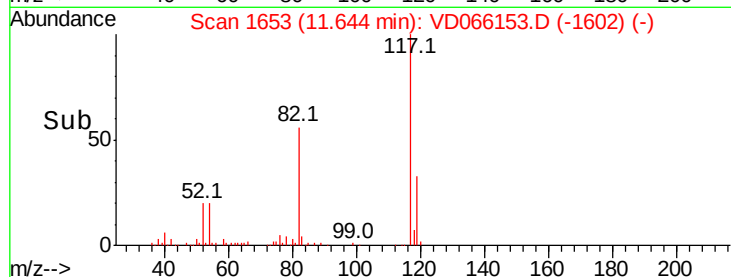
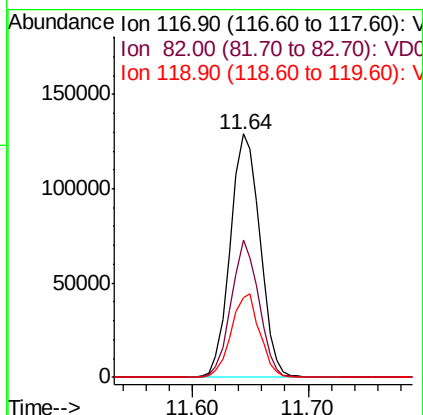
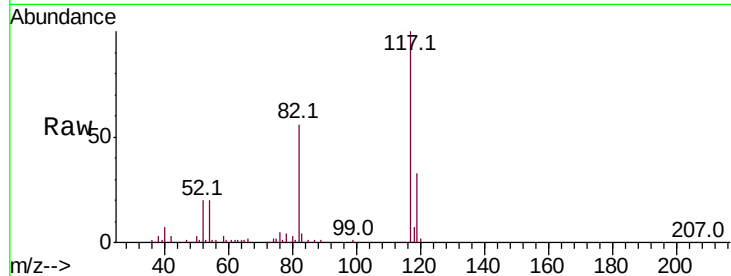




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

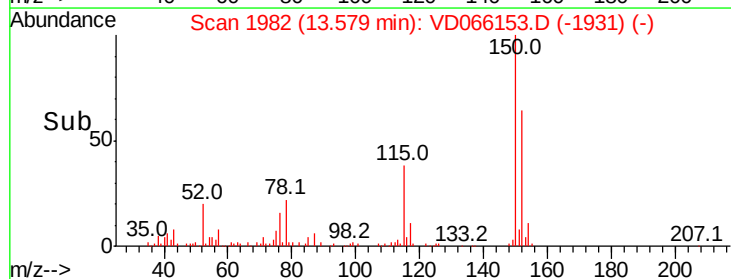
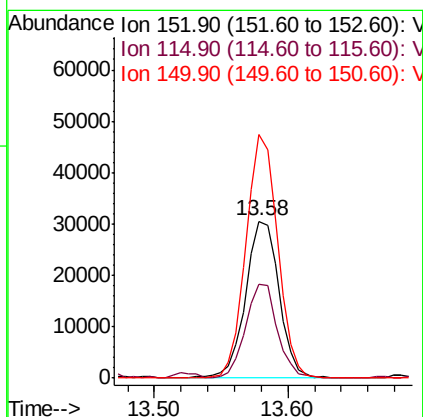
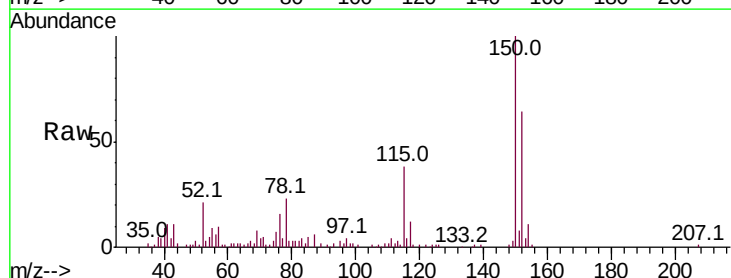
Instrument :
MSVOA_D
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N-23729

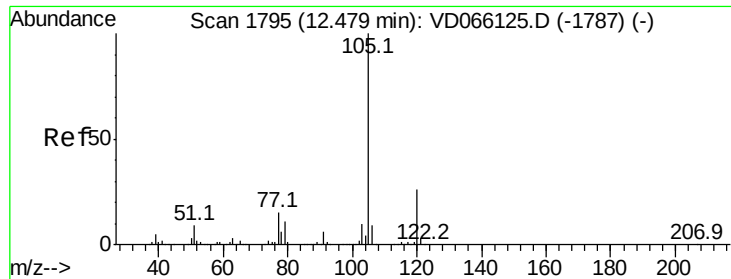
Tot Ion:117 Resp: 230558
Ion Ratio Lower Upper
117 100
82 56.3 43.0 64.4
119 32.5 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

Tgt Ion:152 Resp: 52836
Ion Ratio Lower Upper
152 100
115 57.0 28.0 83.9
150 146.3 0.0 346.4





#73

Isopropylbenzene

Concen: 2.191 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

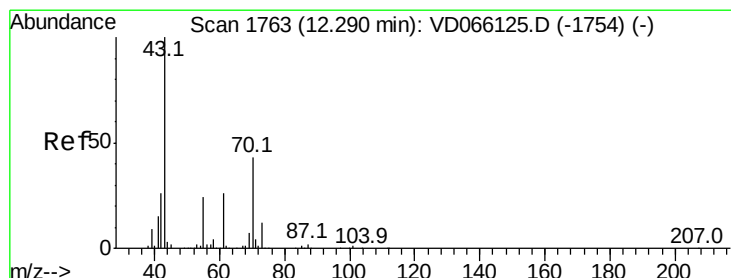
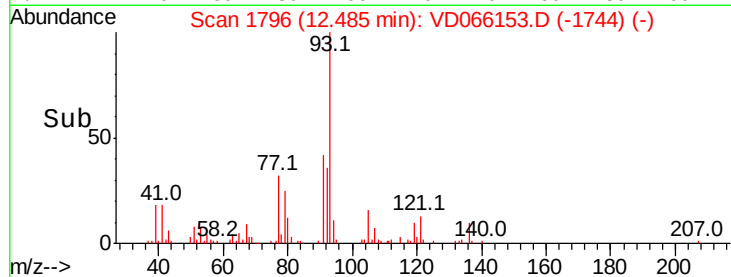
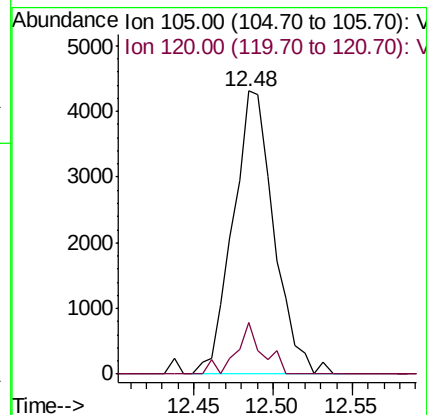
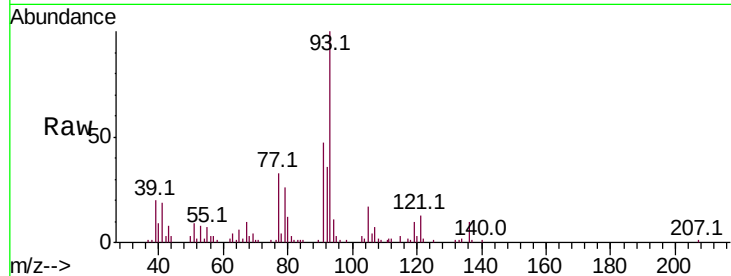
N-23729

Tot Ion:105 Resp: 7727

Ion Ratio Lower Upper

105 100

120 11.7 13.3 39.9#



#74

N-ethyl acetate

Concen: 4.028 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Tgt Ion: 43 Resp: 3128

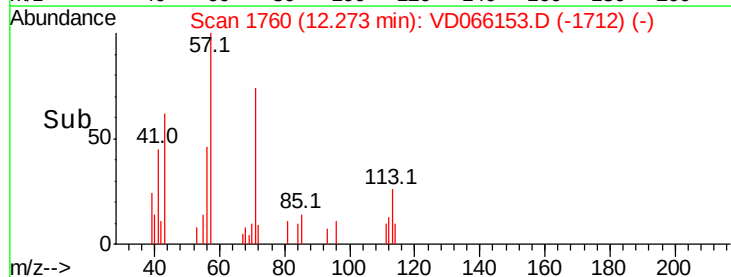
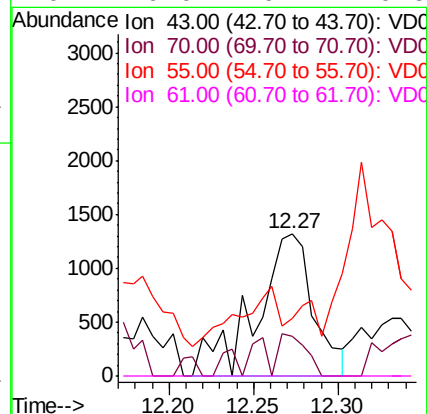
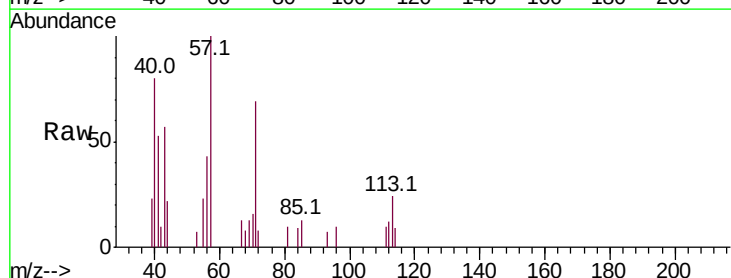
Ion Ratio Lower Upper

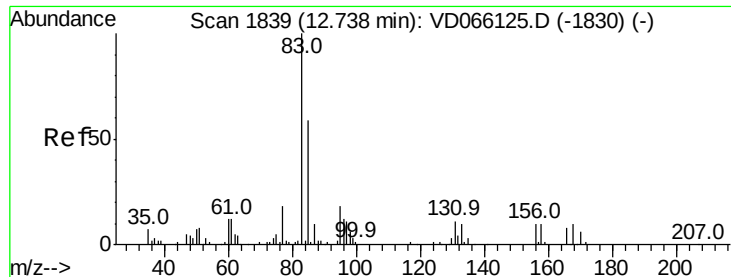
43 100

70 14.0 34.9 52.3#

55 31.8 19.2 28.8#

61 0.0 19.7 29.5#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.089 ug/l

RT: 12.76 min Scan# 1842

Delta R.T. 0.02 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

N-23729

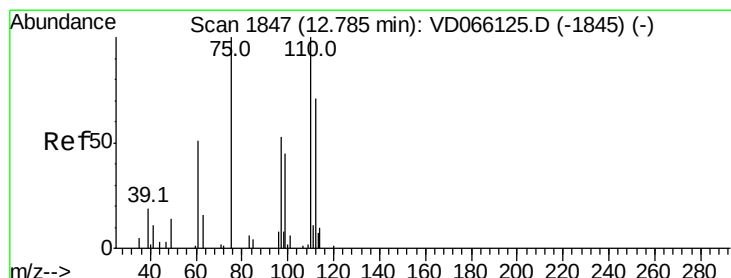
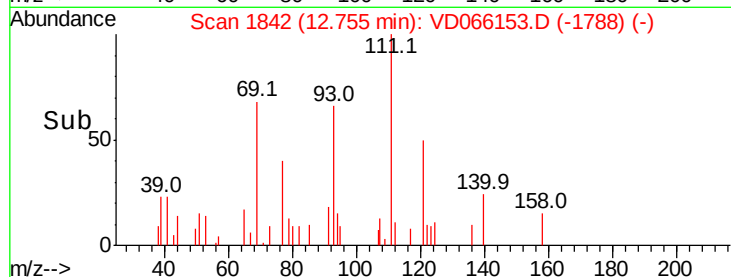
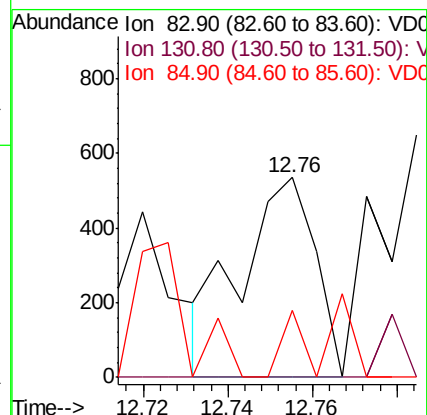
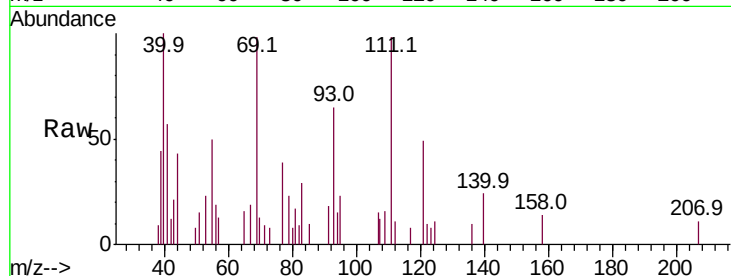
Tot Ion: 83 Resp: 655

Ion Ratio Lower Upper

83 100

131 0.0 6.2 18.6#

85 0.0 32.4 97.2#



#76

1,2,3-Trichloropropane

Concen: 92.868 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066153.D

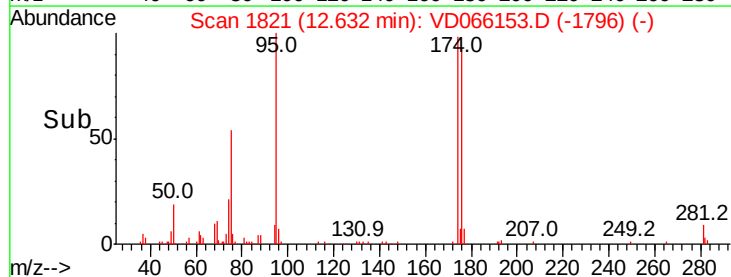
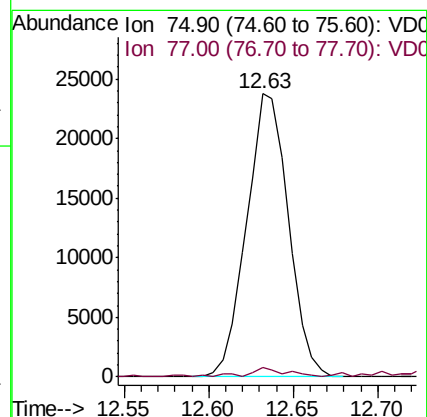
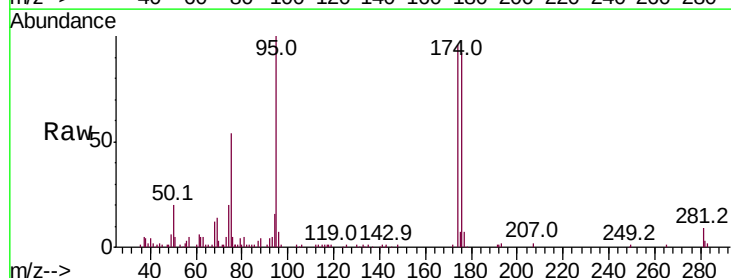
Acq: 07 Aug 2020 13:07

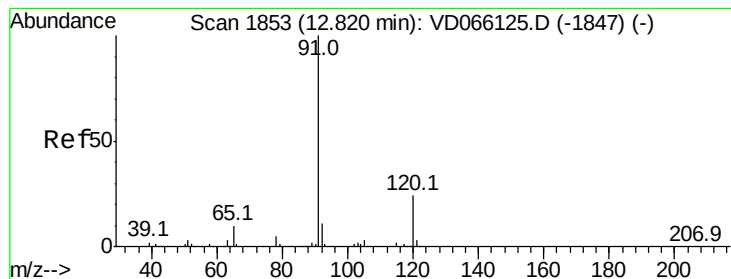
Tgt Ion: 75 Resp: 40919

Ion Ratio Lower Upper

75 100

77 3.1 0.0 0.0#





#78

n-propylbenzene

Concen: 1.077 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

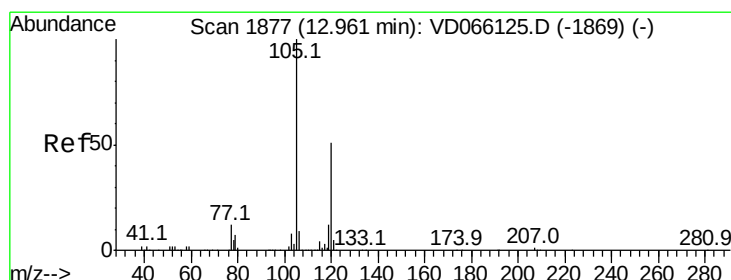
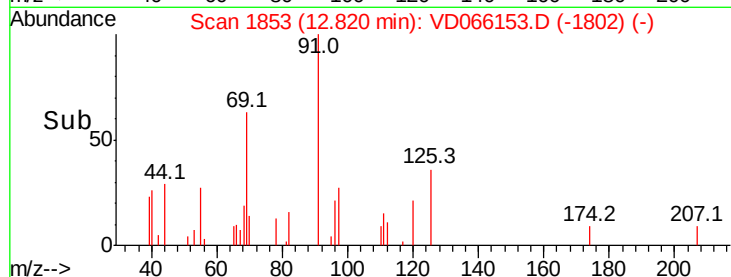
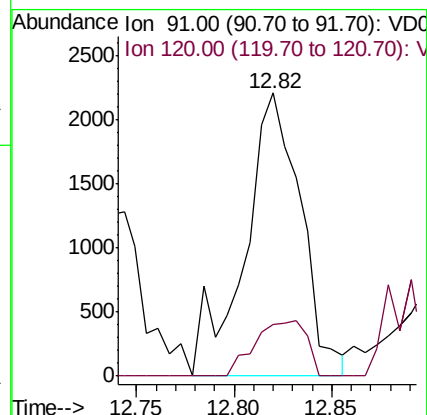
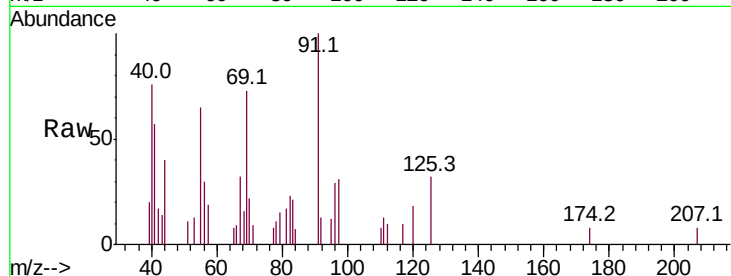
N-23729

Tot Ion: 91 Resp: 4417

Ion Ratio Lower Upper

91 100

120 18.0 12.0 36.0



#80

1,3,5-Trimethylbenzene

Concen: 1.563 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD066153.D

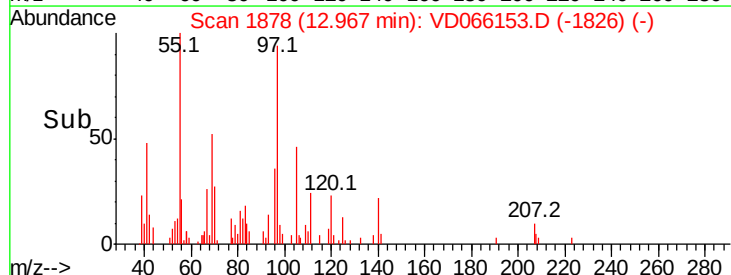
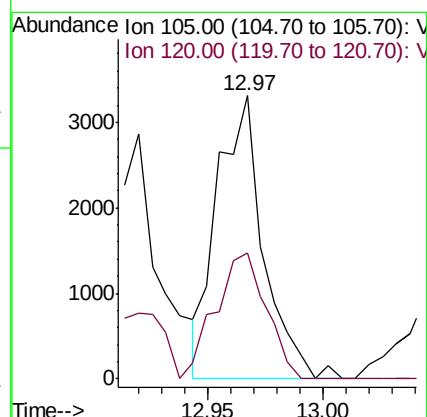
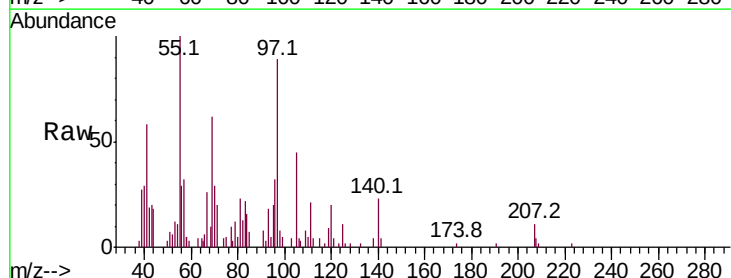
Acq: 07 Aug 2020 13:07

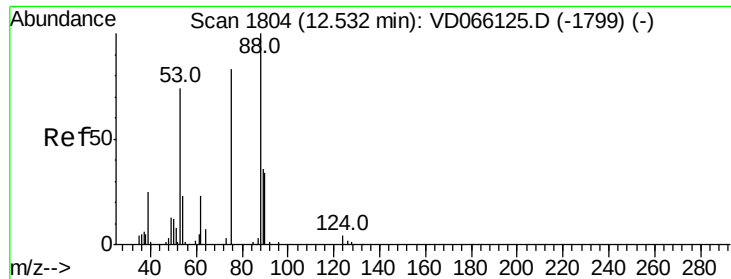
Tgt Ion:105 Resp: 4611

Ion Ratio Lower Upper

105 100

120 48.8 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 205.290 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

N-23729

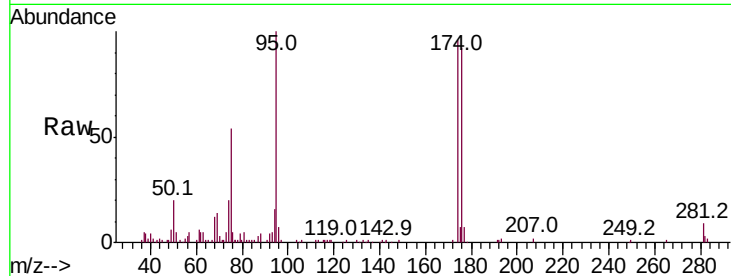
Tot Ion: 75 Resp: 40919

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

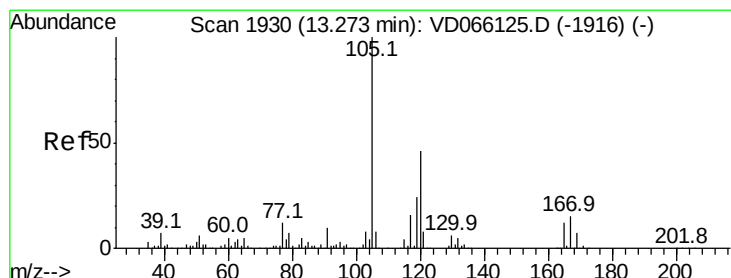
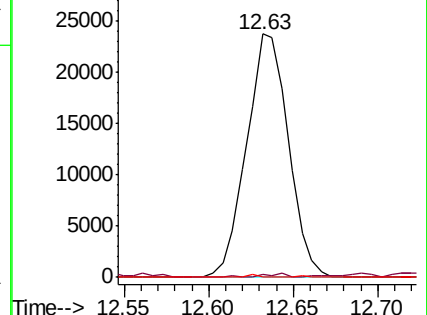
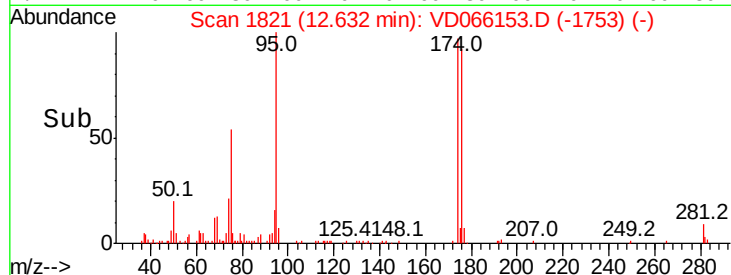
89 0.2 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 3.008 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD066153.D

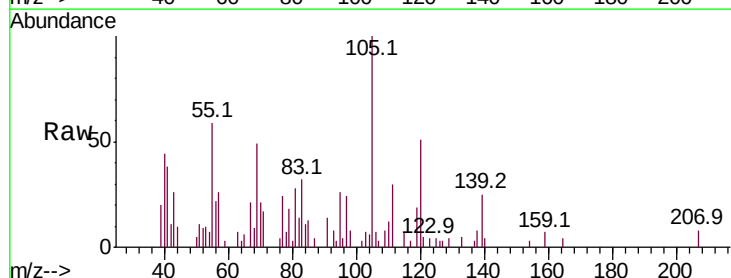
Acq: 07 Aug 2020 13:07

Tgt Ion: 105 Resp: 8878

Ion Ratio Lower Upper

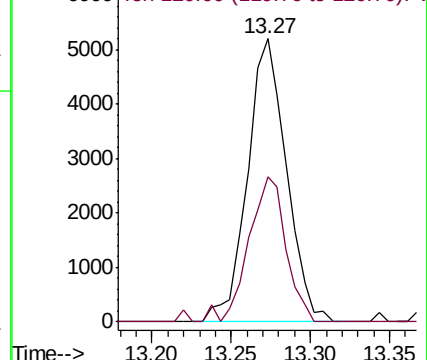
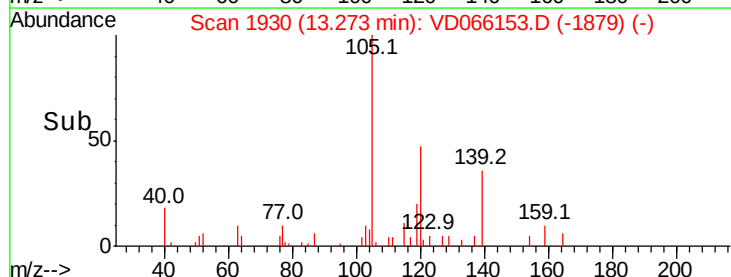
105 100

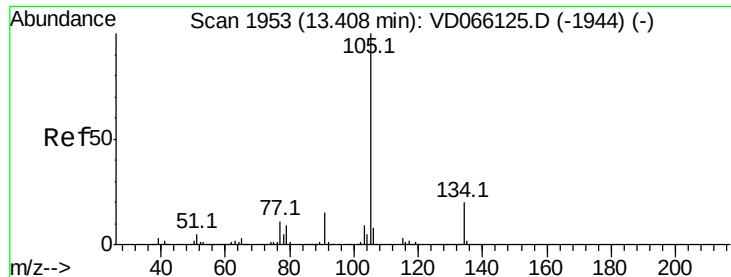
120 49.0 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 6.324 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

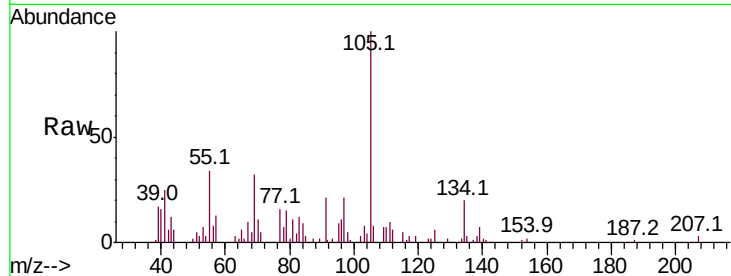
N-23729

Tot Ion:105 Resp: 22147

Ion Ratio Lower Upper

105 100

134 21.9 10.4 31.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

15000

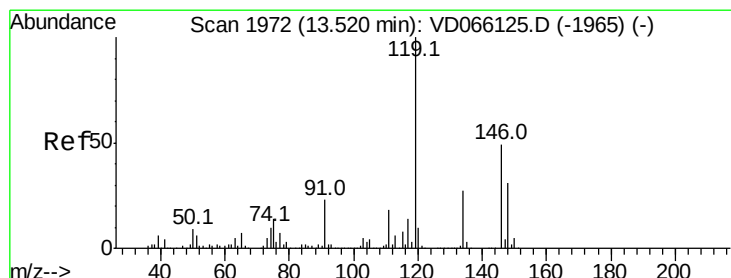
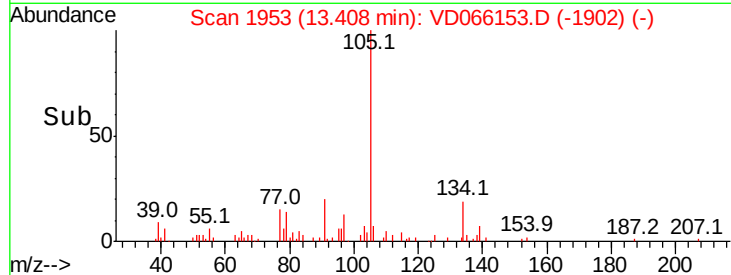
10000

5000

0

13.35 13.40 13.45

Time-->



#86

p-Isopropyltoluene

Concen: 4.300 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

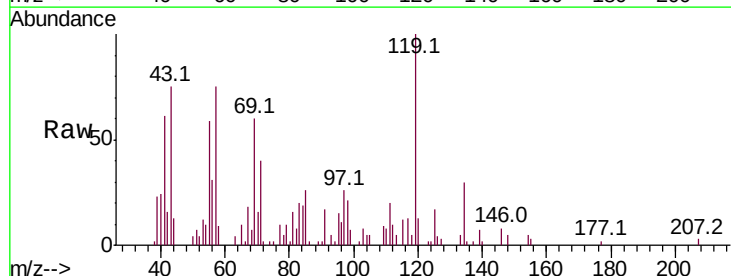
Tgt Ion:119 Resp: 14125

Ion Ratio Lower Upper

119 100

134 27.5 13.5 40.4

91 17.0 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12000

10000

8000

6000

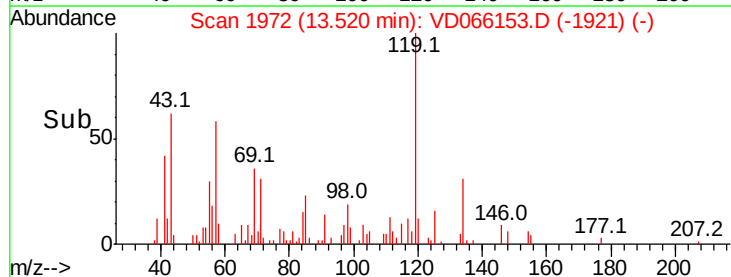
4000

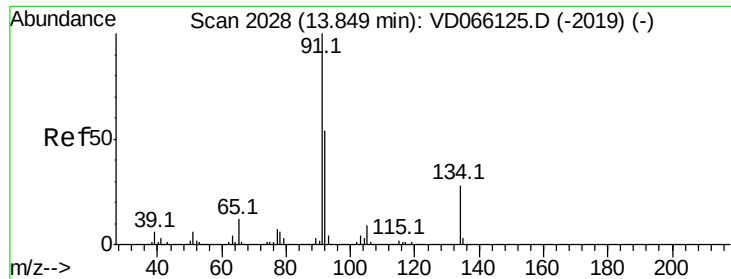
2000

0

13.50 13.55

Time-->

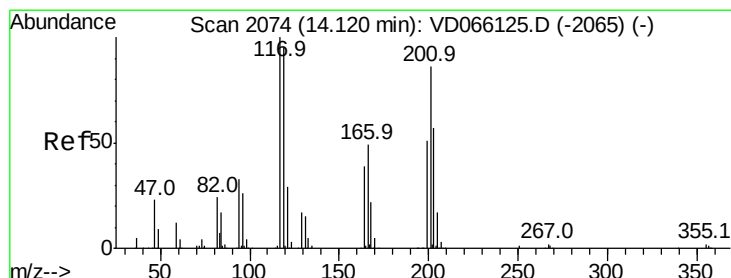
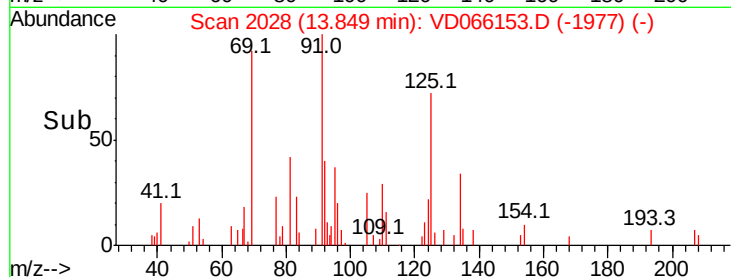
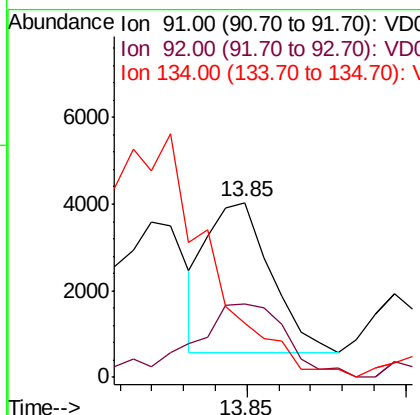
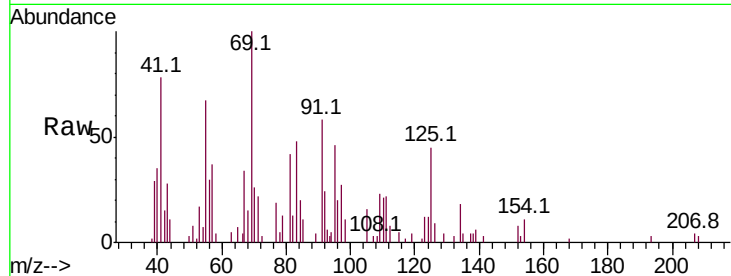




#89
n-Butylbenzene
Concen: 1.653 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

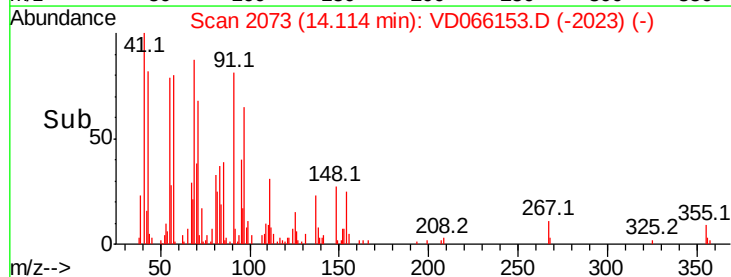
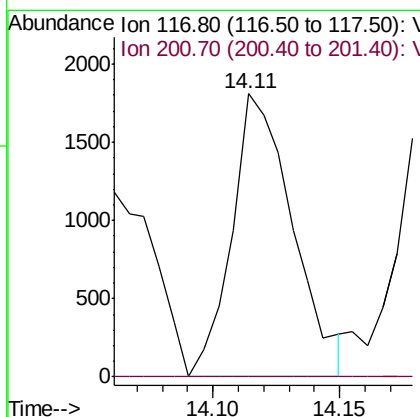
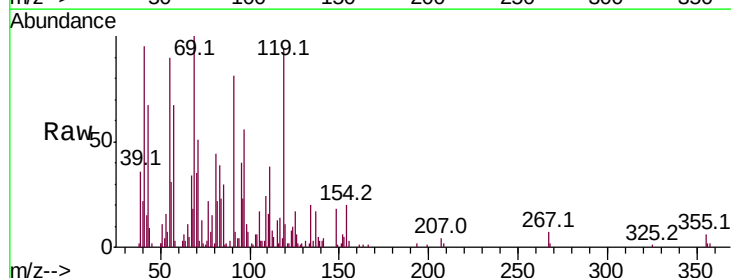
Instrument :
MSVOA_D
ClientSampleId :
N-23729

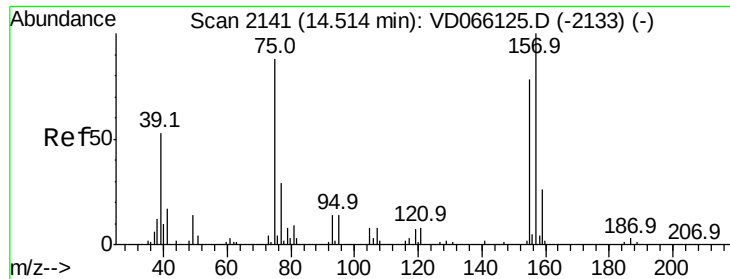
Tot Ion: 91 Resp: 4866
Ion Ratio Lower Upper
91 100
92 71.9 26.8 80.3
134 0.0 14.0 41.9#



#90
Hexachloroethane
Concen: 4.607 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. -0.01 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

Tgt Ion: 117 Resp: 3018
Ion Ratio Lower Upper
117 100
201 0.0 42.7 128.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.444 ug/l

RT: 14.49 min Scan# 2137

Delta R.T. -0.02 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

Instrument :

MSVOA_D

ClientSampleId :

N-23729

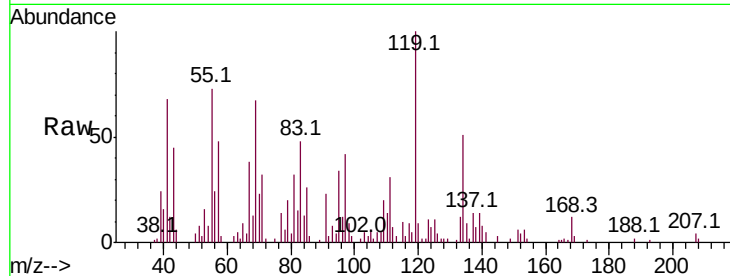
Tot Ion: 75 Resp: 356

Ion Ratio Lower Upper

75 100

155 18.5 47.7 143.1#

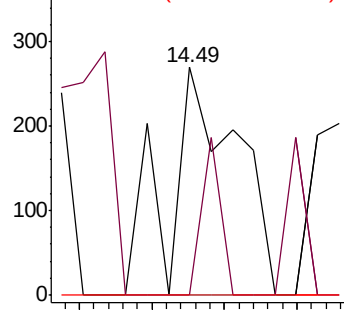
157 0.0 62.1 186.2#



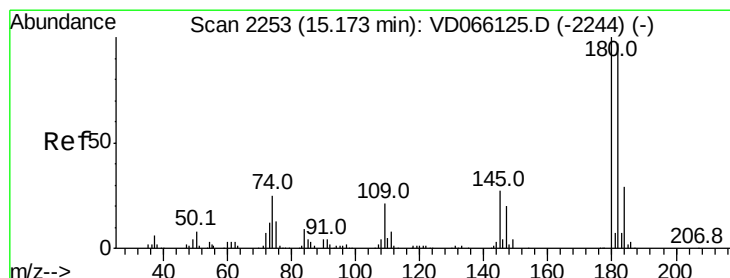
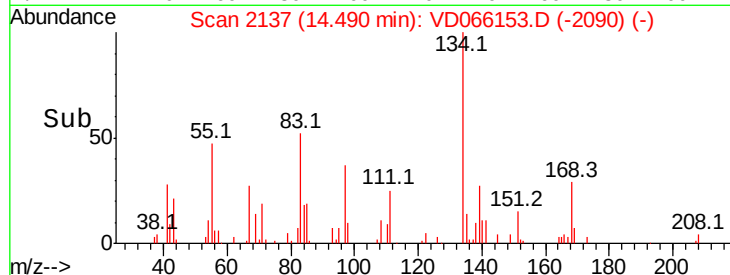
Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 1.444 ug/l

RT: 15.18 min Scan# 2254

Delta R.T. 0.01 min

Lab File: VD066153.D

Acq: 07 Aug 2020 13:07

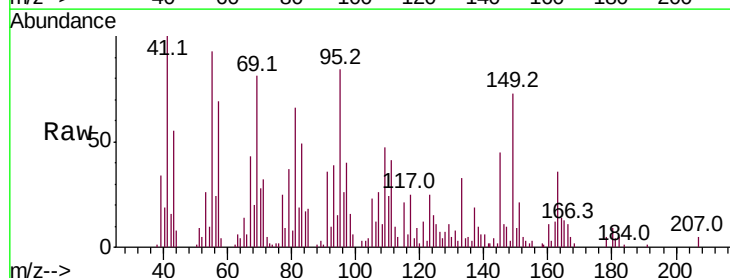
Tgt Ion:180 Resp: 1606

Ion Ratio Lower Upper

180 100

182 80.6 47.4 142.2

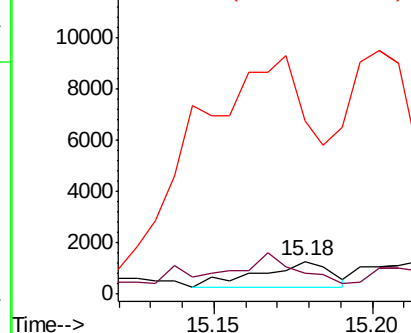
145 1514.9 14.5 43.6#



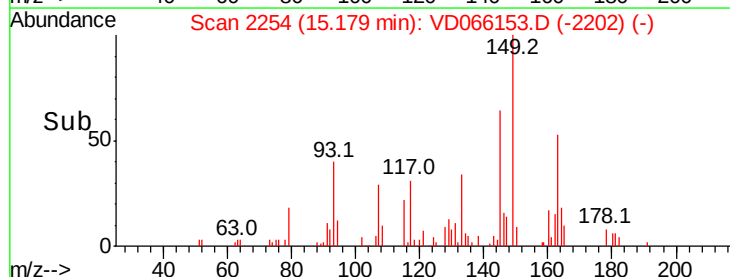
Abundance Ion 179.80 (179.50 to 180.50): V

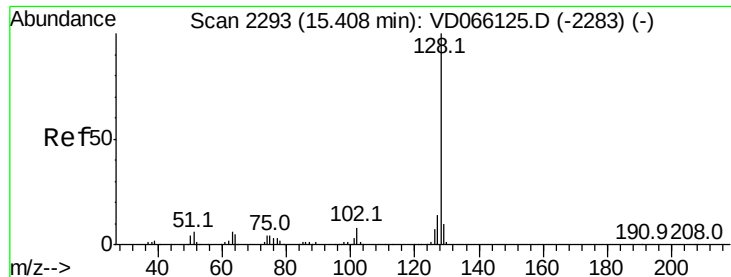
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->

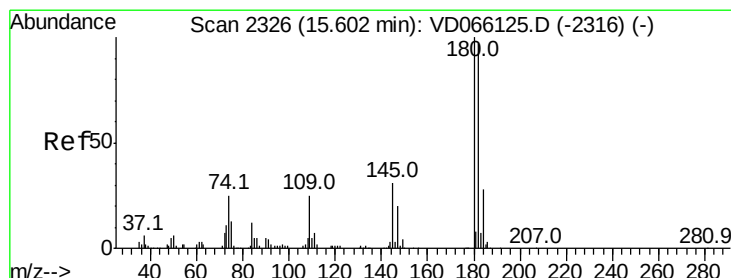
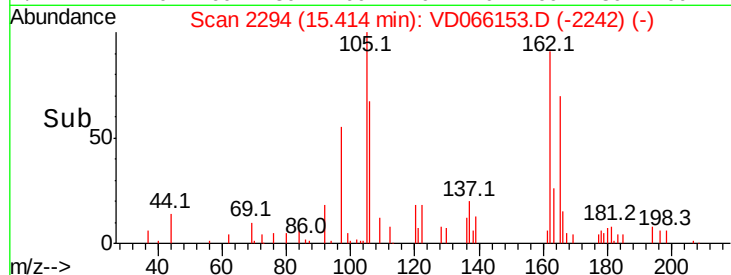
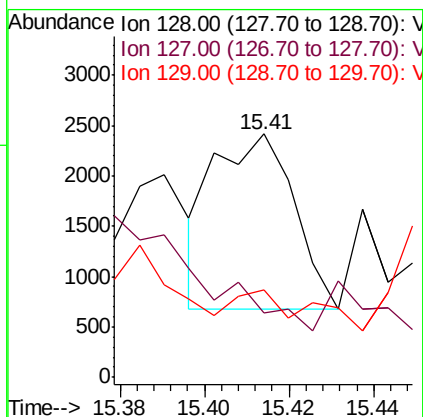
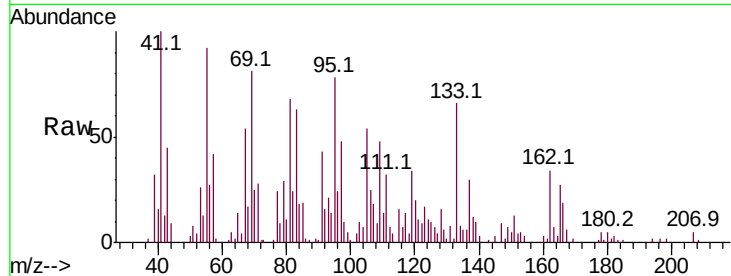




#95
Naphthalene
Concen: 1.264 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

Instrument :
MSVOA_D
ClientSampleId :
N-23729

Tot Ion:128 Resp: 2291
Ion Ratio Lower Upper
128 100
127 14.6 11.0 16.4
129 22.0 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 2.893 ug/l
RT: 15.62 min Scan# 2329
Delta R.T. 0.02 min
Lab File: VD066153.D
Acq: 07 Aug 2020 13:07

Tgt Ion:180 Resp: 2840
Ion Ratio Lower Upper
180 100
182 0.0 47.1 141.4#
145 0.0 14.9 44.9#

