

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081220\
 Data File : VD066203.D
 Acq On : 12 Aug 2020 14:42
 Operator : VA/SY
 Sample : L3652-01
 Misc : 4.66G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCKPILE-1-A

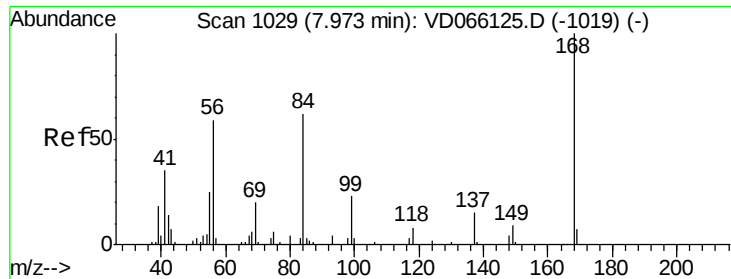
Quant Time: Aug 12 16:03:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	243948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	378303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	366986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	196750	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	133677	61.42	ug/l	0.00
Spiked Amount			Recovery	=	122.84%	
35) Dibromofluoromethane	7.91	113	127875	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
50) Toluene-d8	10.33	98	433762	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
62) 4-Bromofluorobenzene	12.63	95	168062	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.73	94	1051	1.070	ug/l	95
10) Methyl Iodide	4.30	142	1209	7.213	ug/l #	79
11) Tert butyl alcohol	5.19	59	8492	16.823	ug/l #	84
16) Acetone	4.16	43	52843	127.964	ug/l	93
18) Methyl Acetate	4.71	43	8598	8.197	ug/l	97
20) Methylene Chloride	4.96	84	4381	Below Cal	#	78
25) 2-Butanone	7.21	43	3287	5.412	ug/l	92
29) Tetrahydrofuran	7.57	42	387	1.028	ug/l #	45
31) Cyclohexane	7.97	56	5043	1.323	ug/l #	21
58) 2-Chloroethyl Vinyl ether	9.94	63	1529	1.479	ug/l	94
59) 2-Hexanone	10.84	43	1386	1.385	ug/l	73
68) m/p-Xylenes	11.84	106	9842	1.968	ug/l	99
69) o-Xylene	12.17	106	10169	2.235	ug/l	89
76) 1,2,3-Trichloropropane	12.63	75	84107	51.261	ug/l #	100
78) n-propylbenzene	12.82	91	21213	1.389	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	55162	5.022	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.63	75	84107	113.316	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.27	105	107361	9.767	ug/l	98
89) n-Butylbenzene	13.84	91	17978	1.640	ug/l #	55
90) Hexachloroethane	14.12	117	18402	7.543	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.53	75	994	2.582	ug/l #	1
95) Naphthalene	15.41	128	461619	68.411	ug/l	99

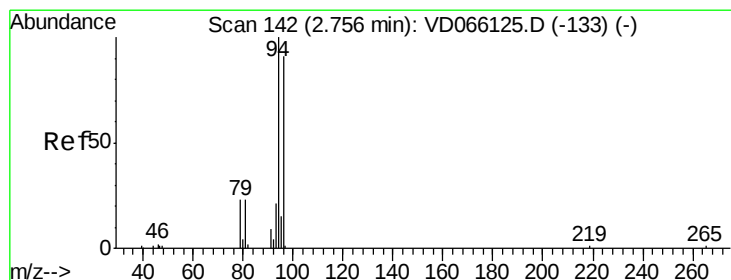
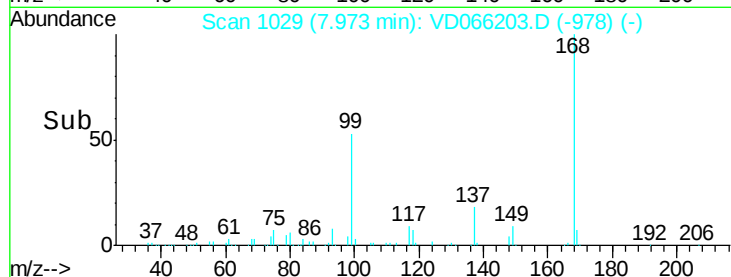
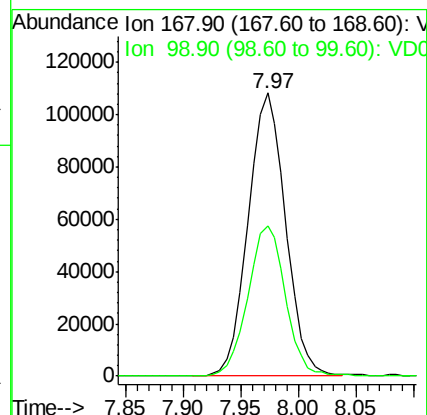
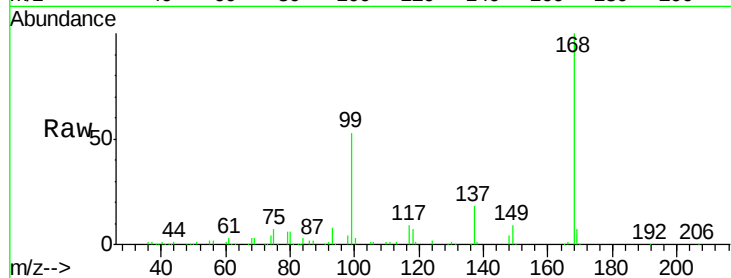
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

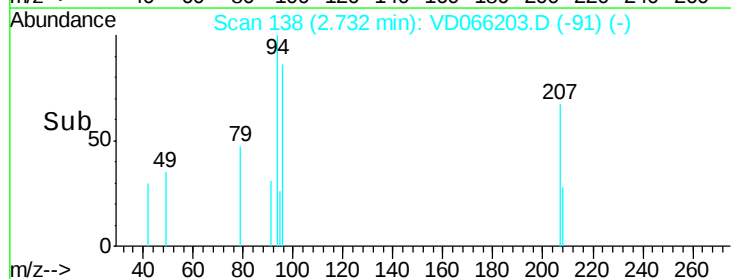
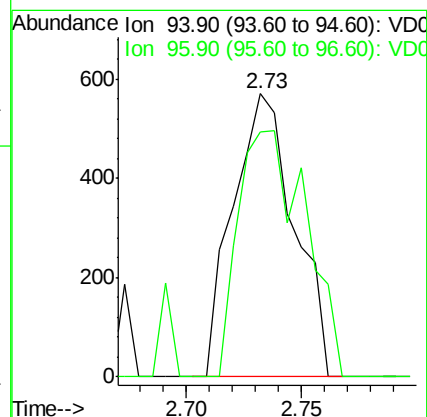
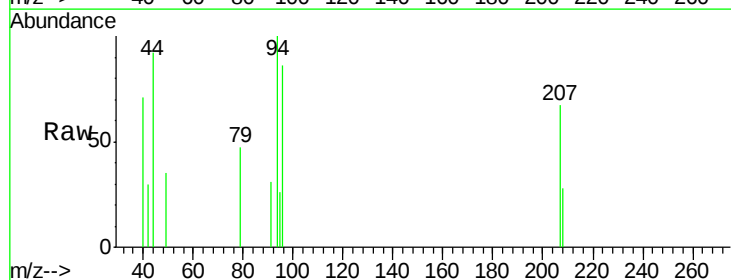
Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

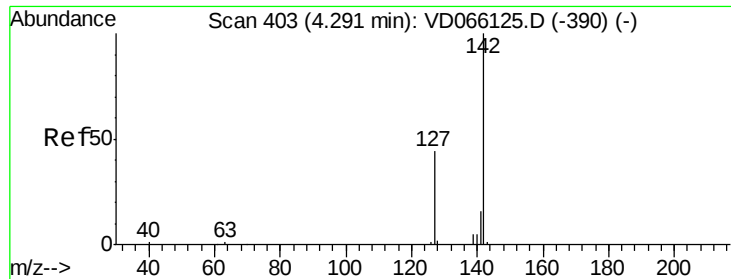
Tgt Ion: 168 Resp: 243948
Ion Ratio Lower Upper
168 100
99 53.1 42.2 63.4



#5
Bromomethane
Concen: 1.070 ug/l
RT: 2.73 min Scan# 138
Delta R.T. -0.02 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion: 94 Resp: 1051
Ion Ratio Lower Upper
94 100
96 86.5 72.6 109.0

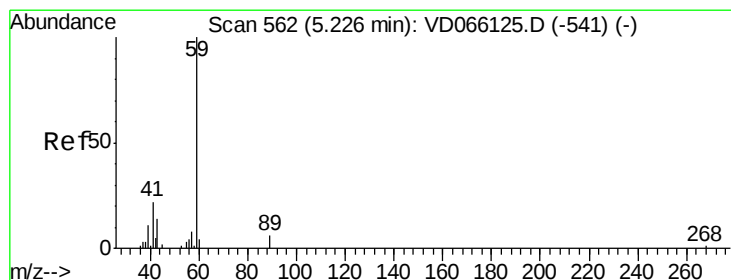
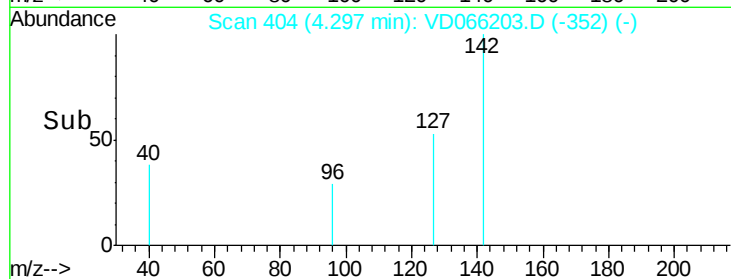
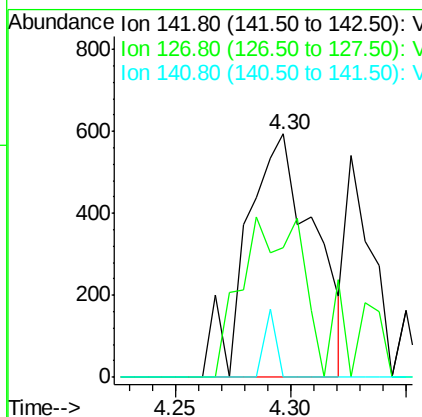
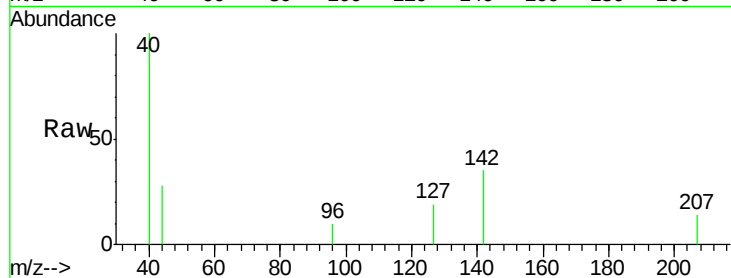




#10
Methyl Iodide
Concen: 7.213 ug/l
RT: 4.30 min Scan# 404
Delta R.T. 0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

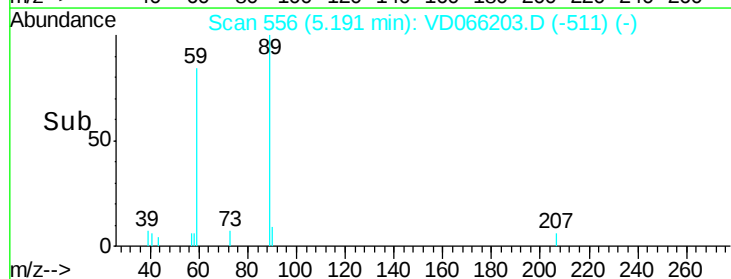
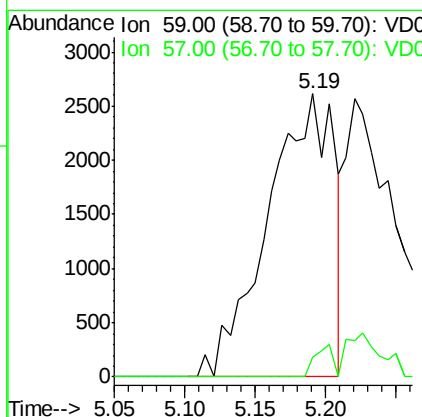
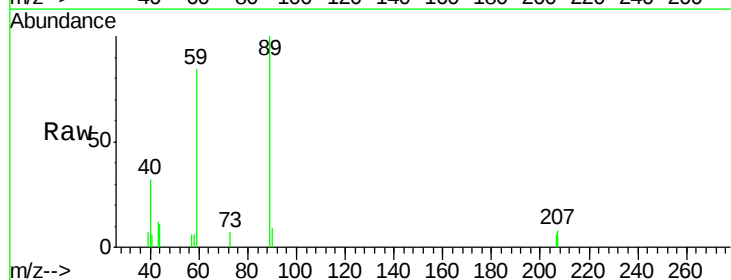
Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

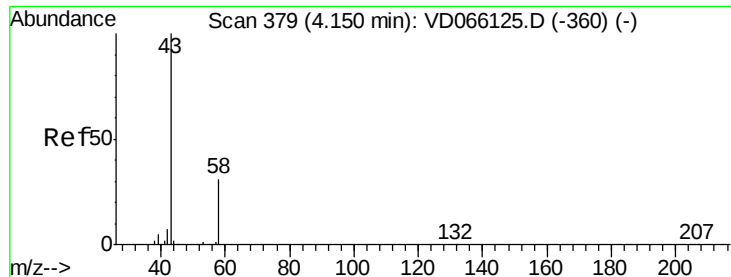
Tgt Ion:142 Resp: 1209
Ion Ratio Lower Upper
142 100
127 57.9 36.2 54.4#
141 4.9 12.6 18.8#



#11
Tert butyl alcohol
Concen: 16.823 ug/l
RT: 5.19 min Scan# 556
Delta R.T. -0.04 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion: 59 Resp: 8492
Ion Ratio Lower Upper
59 100
57 3.0 7.0 10.4#





#16

Acetone

Concen: 127.964 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066203.D

Acq: 12 Aug 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

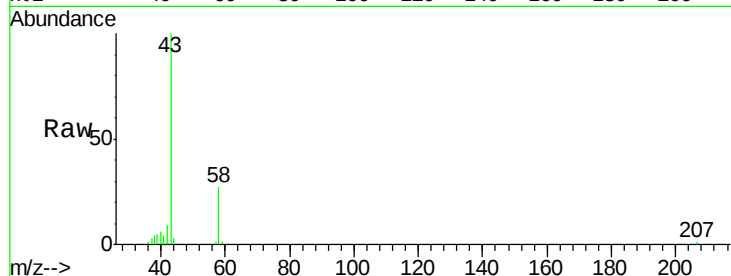
STOCKPILE-1-A

Tgt Ion: 43 Resp: 52843

Ion Ratio Lower Upper

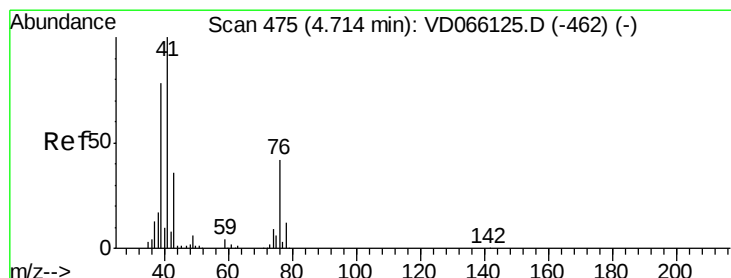
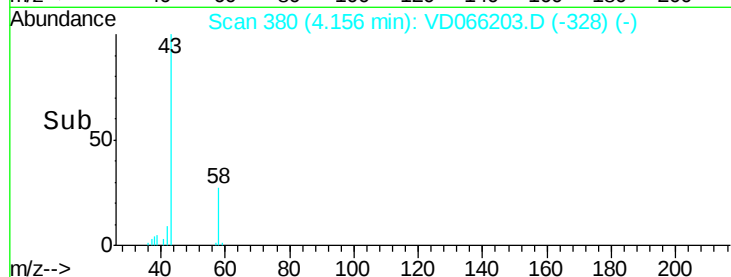
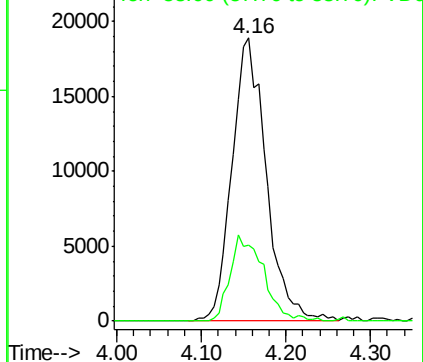
43 100

58 27.0 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 8.197 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD066203.D

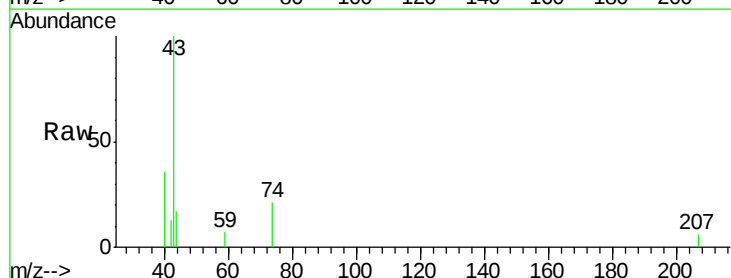
Acq: 12 Aug 2020 14:42

Tgt Ion: 43 Resp: 8598

Ion Ratio Lower Upper

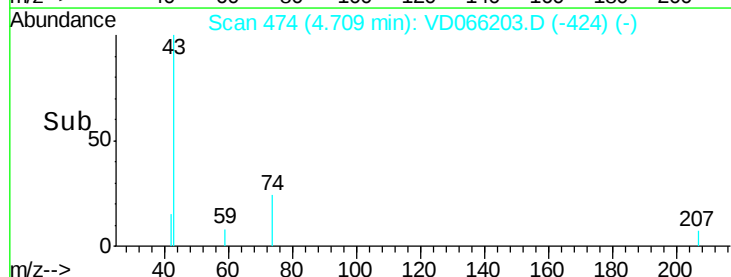
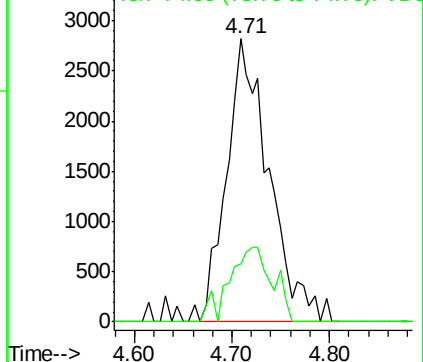
43 100

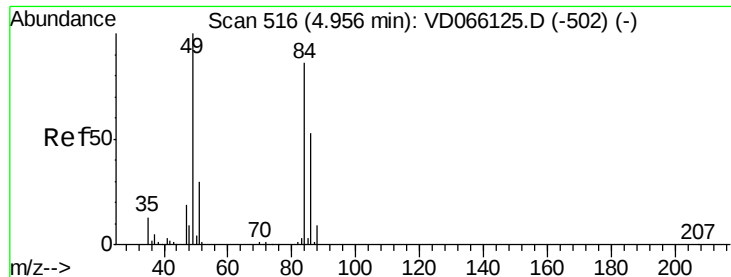
74 24.8 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

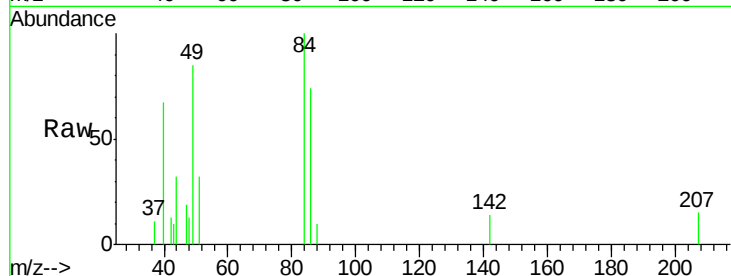




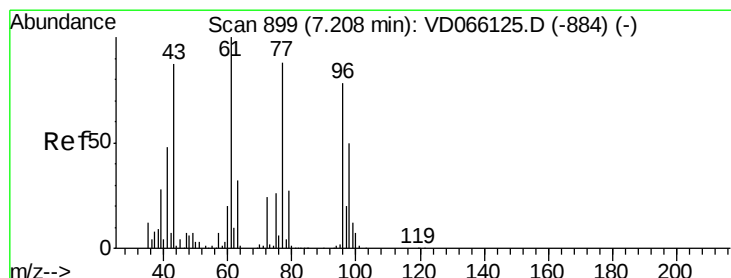
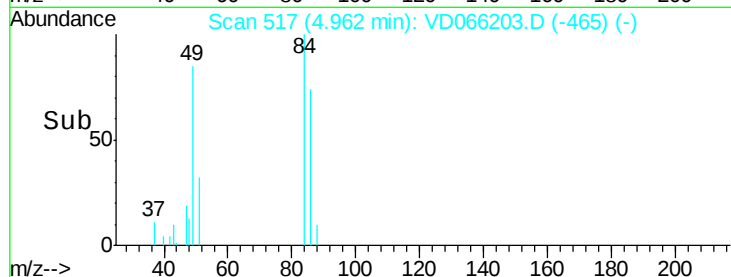
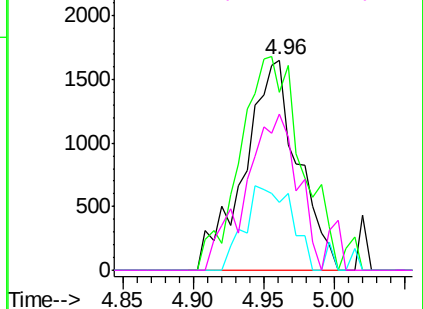
#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

Tgt Ion: 84 Resp: 4381
Ion Ratio Lower Upper
84 100
49 84.7 93.5 140.3#
51 32.4 28.2 42.4
86 74.2 49.5 74.3

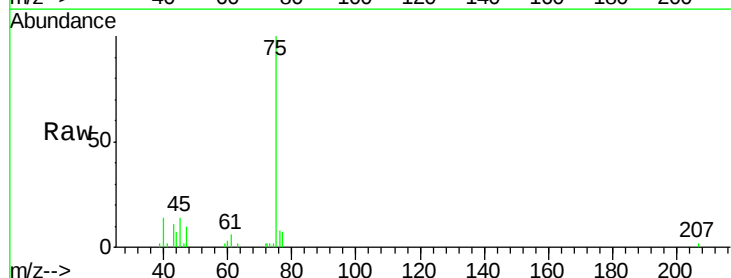


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

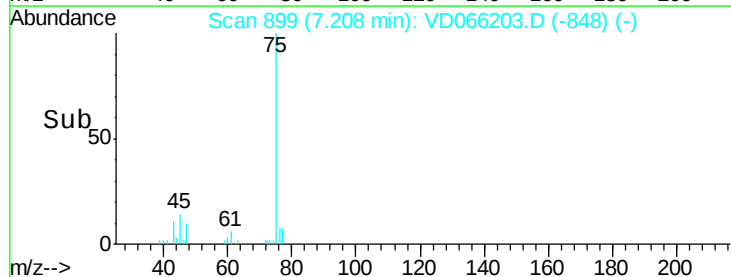
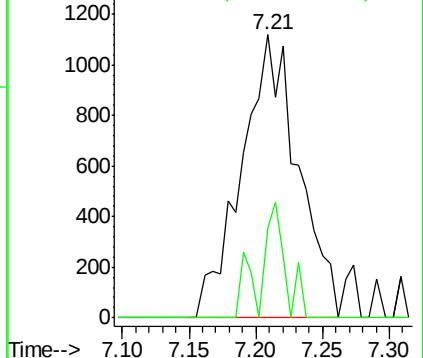


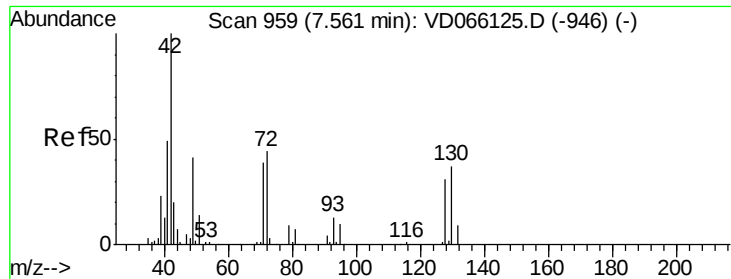
#25
2-Butanone
Concen: 5.412 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion: 43 Resp: 3287
Ion Ratio Lower Upper
43 100
72 31.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC

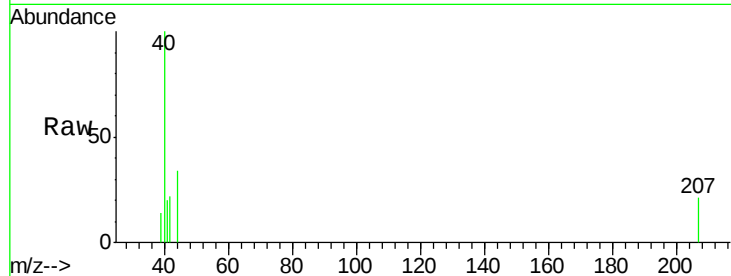




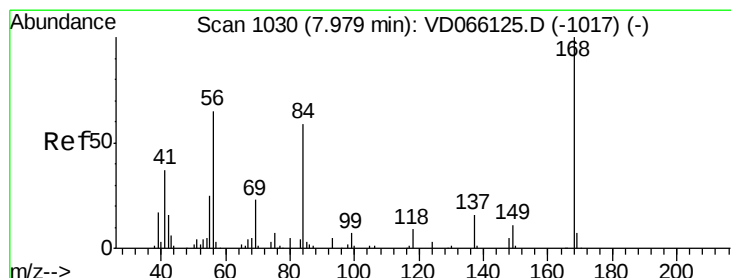
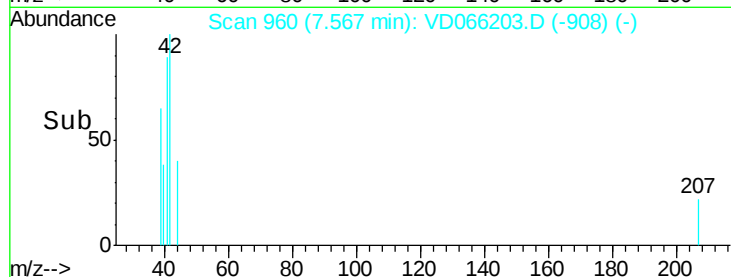
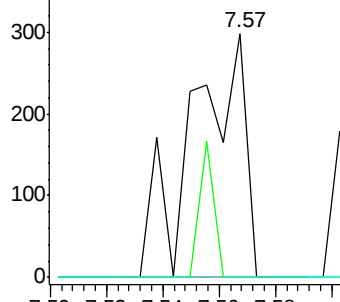
#29
Tetrahydrofuran
Concen: 1.028 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

Tgt Ion: 42 Resp: 387
Ion Ratio Lower Upper
42 100
72 15.2 34.8 52.2#
71 0.0 33.5 50.3#

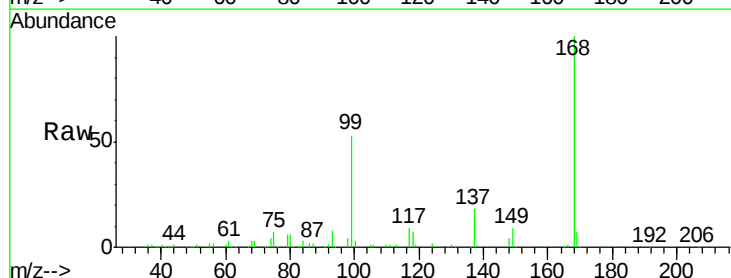


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

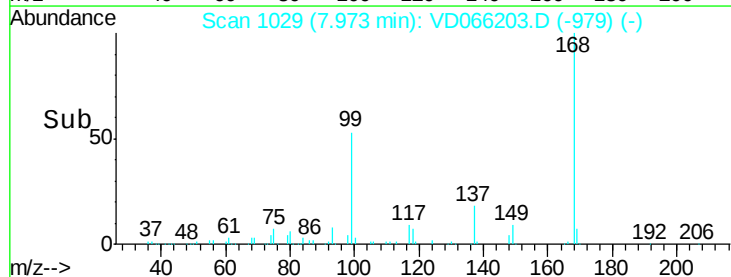
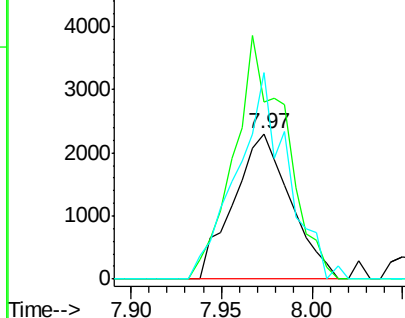


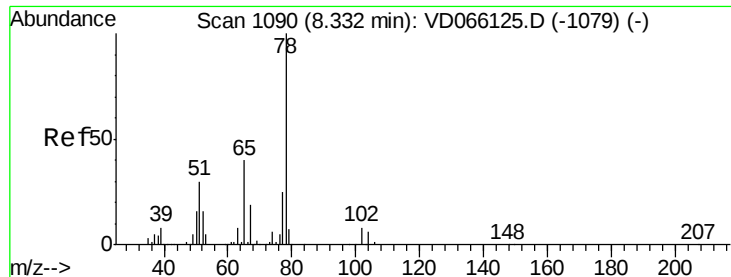
#31
Cyclohexane
Concen: 1.323 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion: 56 Resp: 5043
Ion Ratio Lower Upper
56 100
69 121.7 28.8 43.2#
84 141.3 73.0 109.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 61.422 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066203.D

Acq: 12 Aug 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

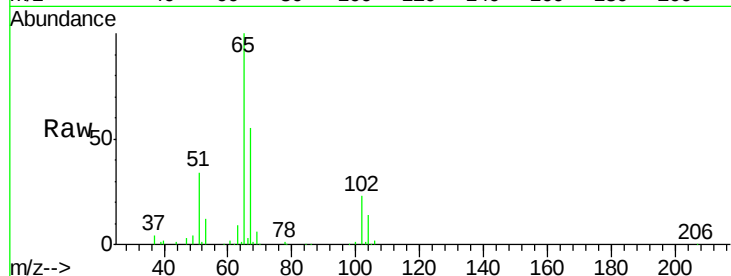
STOCKPILE-1-A

Tgt Ion: 65 Resp: 133677

Ion Ratio Lower Upper

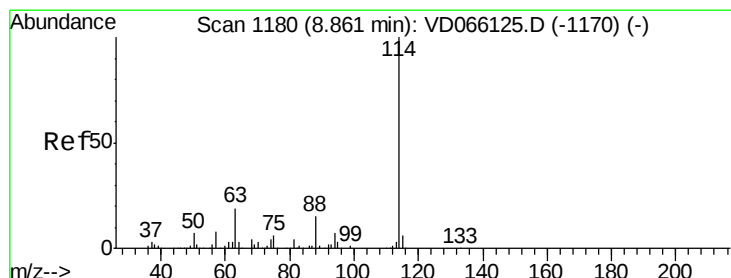
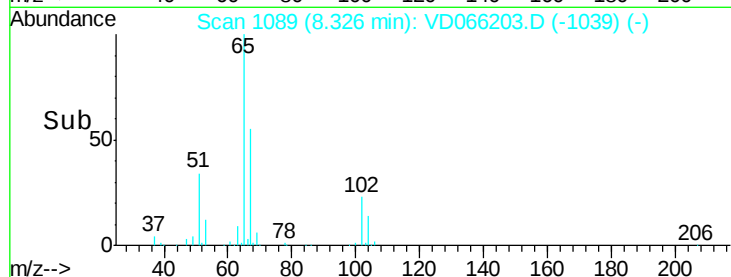
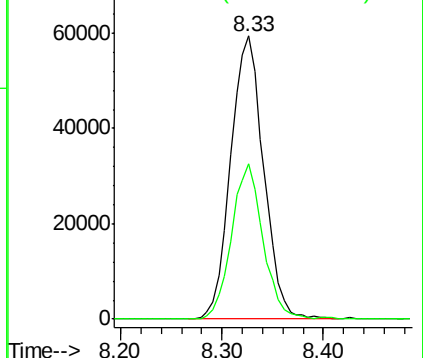
65 100

67 52.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VD066203.D

Acq: 12 Aug 2020 14:42

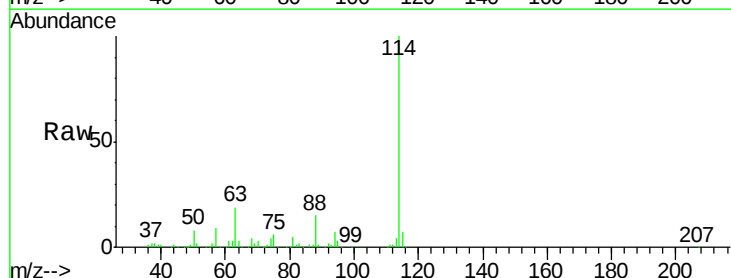
Tgt Ion: 114 Resp: 378303

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.6

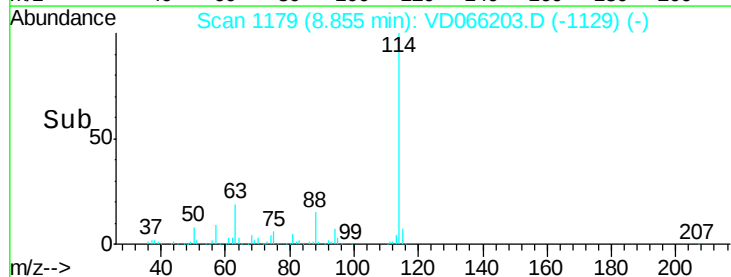
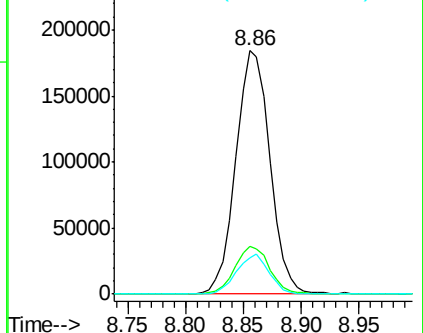
88 15.0 0.0 30.0

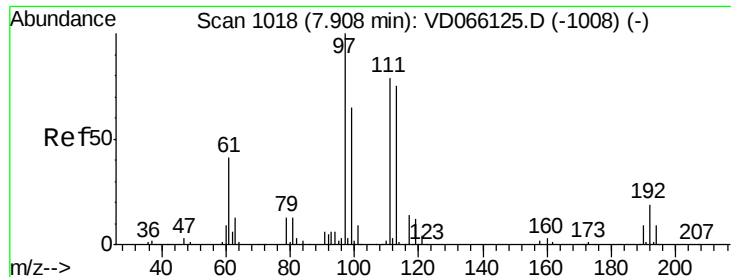


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

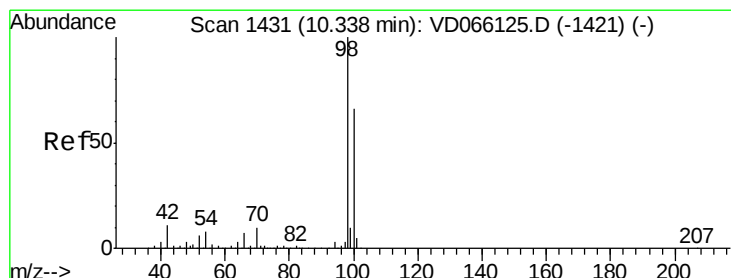
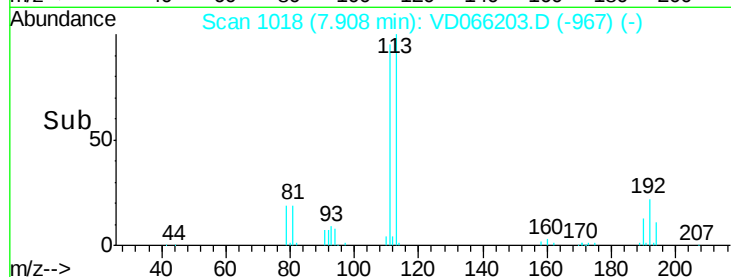
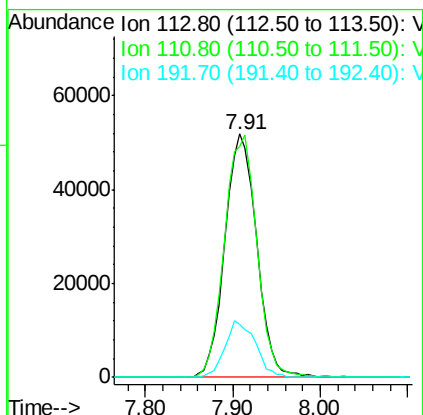
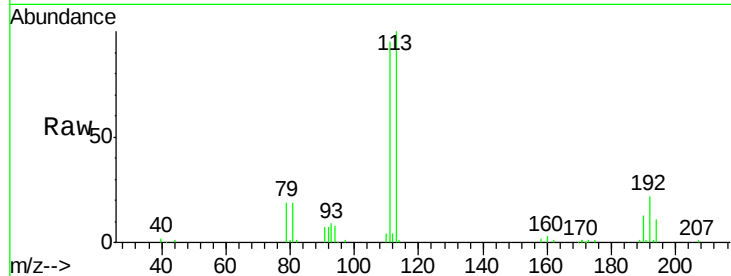




#35
 Dibromofluoromethane
 Concen: 53.359 ug/l
 RT: 7.91 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VD066203.D
 Acq: 12 Aug 2020 14:42

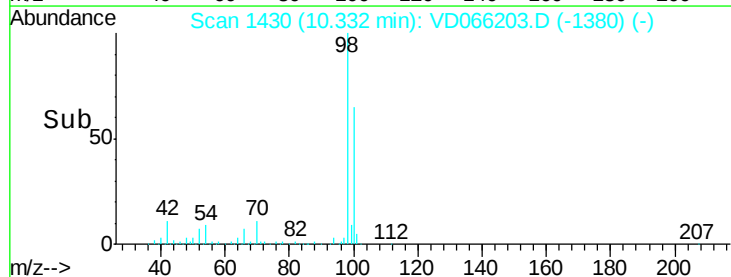
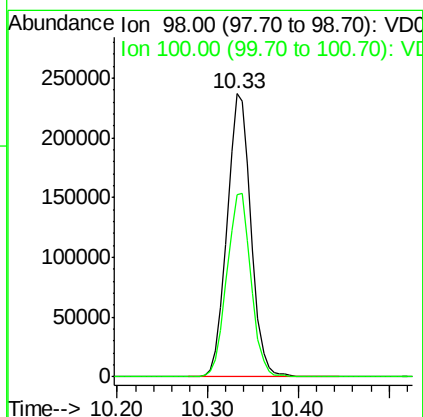
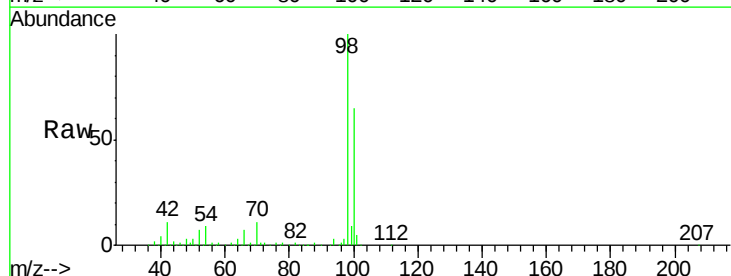
Instrument :
 MSVOA_D
 ClientSampleId :
 STOCKPILE-1-A

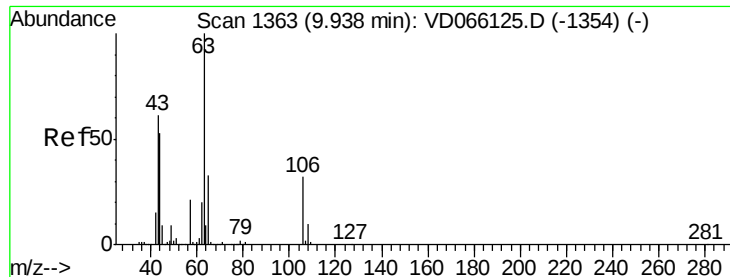
Tgt Ion: 113 Resp: 127875
 Ion Ratio Lower Upper
 113 100
 111 101.4 80.7 121.1
 192 22.4 18.4 27.6



#50
 Toluene-d8
 Concen: 49.048 ug/l
 RT: 10.33 min Scan# 1430
 Delta R.T. -0.01 min
 Lab File: VD066203.D
 Acq: 12 Aug 2020 14:42

Tgt Ion: 98 Resp: 433762
 Ion Ratio Lower Upper
 98 100
 100 65.7 52.6 78.8

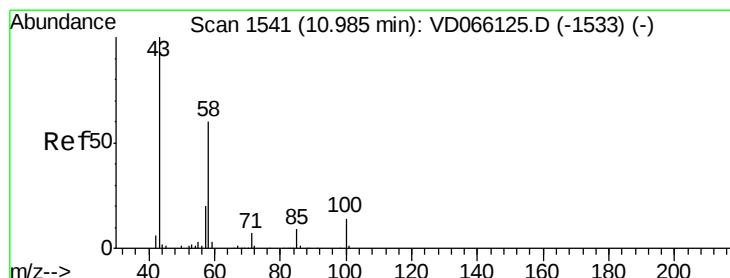
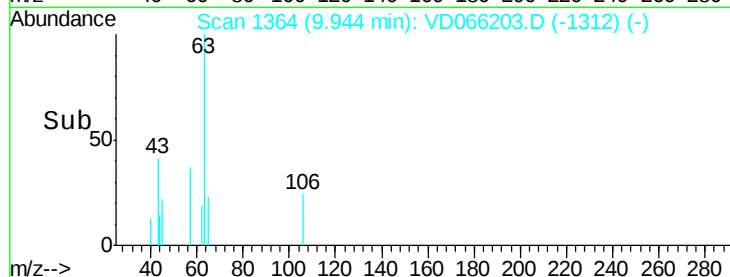
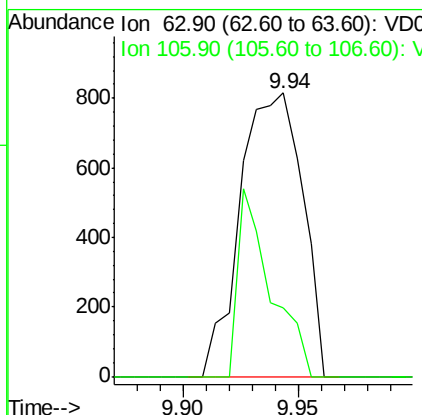
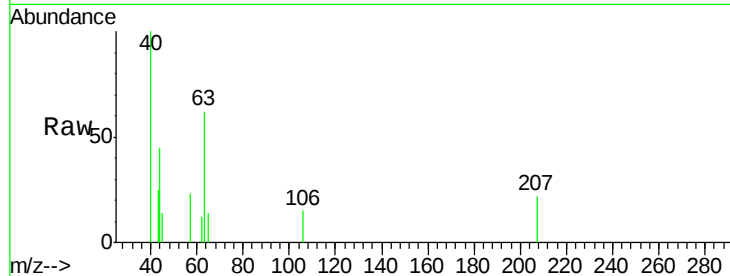




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.479 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.01 min
 Lab File: VD066203.D
 Acq: 12 Aug 2020 14:42

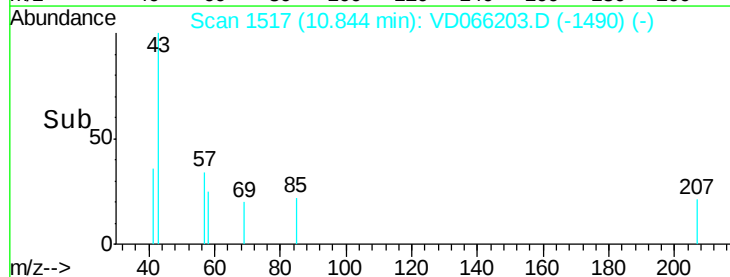
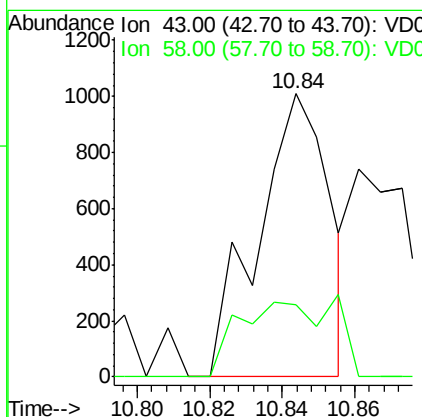
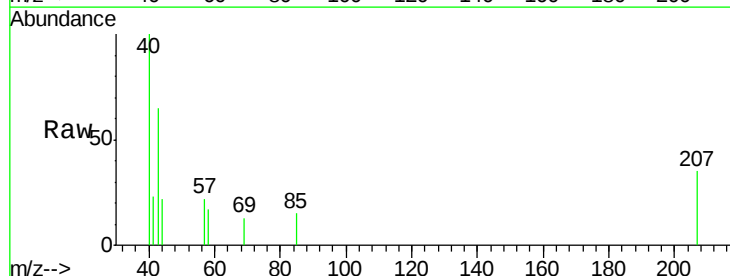
Instrument :
 MSVOA_D
 ClientSampleId :
 STOCKPILE-1-A

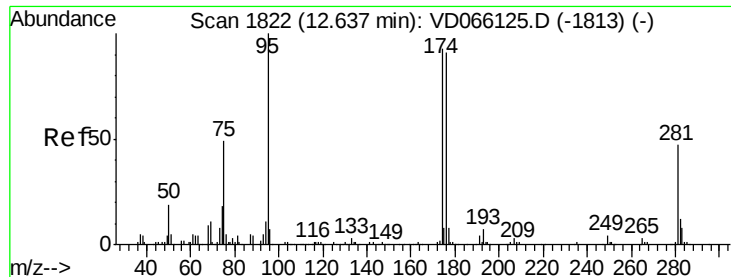
Tgt Ion: 63 Resp: 1529
 Ion Ratio Lower Upper
 63 100
 106 35.1 25.3 37.9



#59
 2-Hexanone
 Concen: 1.385 ug/l
 RT: 10.84 min Scan# 1517
 Delta R.T. -0.14 min
 Lab File: VD066203.D
 Acq: 12 Aug 2020 14:42

Tgt Ion: 43 Resp: 1386
 Ion Ratio Lower Upper
 43 100
 58 35.8 27.8 83.4

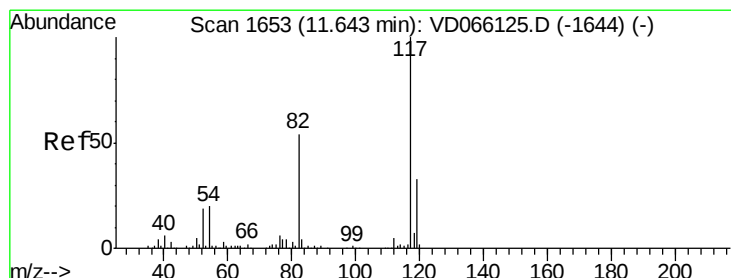
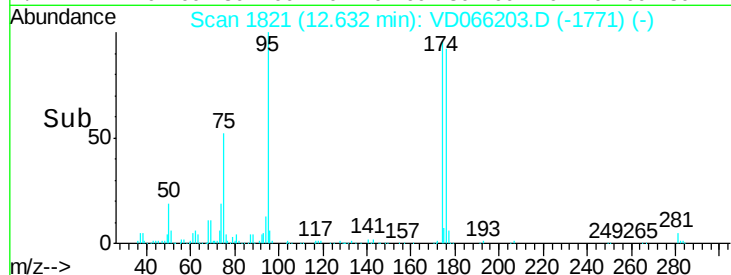
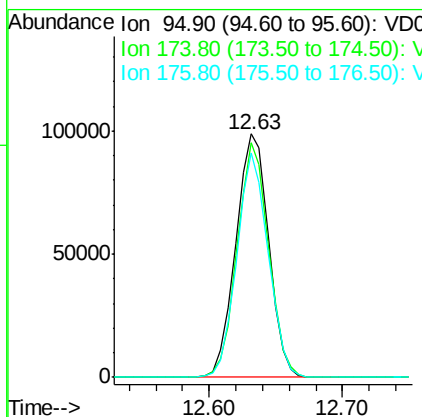
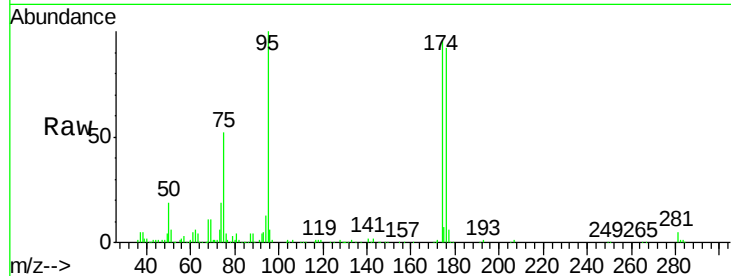




#62
4-Bromofluorobenzene
Concen: 52.720 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

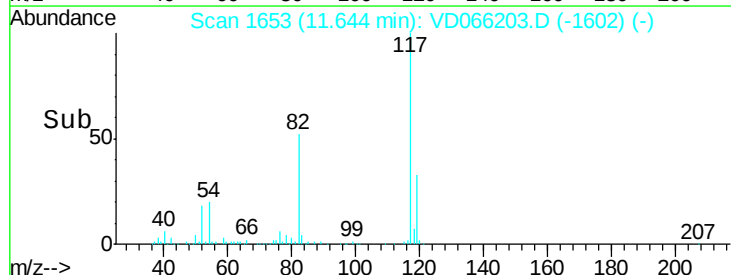
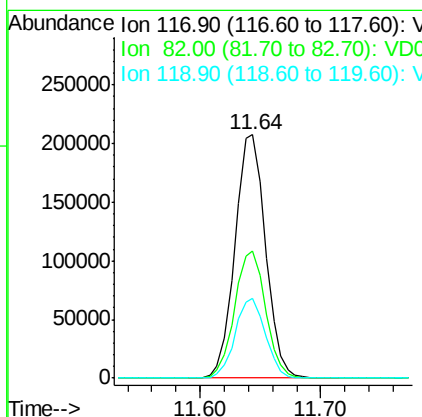
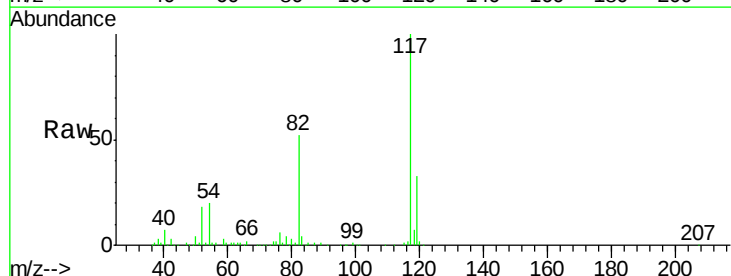
Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

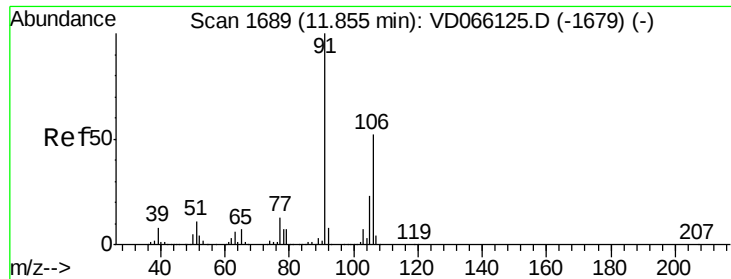
Tgt Ion: 95 Resp: 168062
Ion Ratio Lower Upper
95 100
174 92.3 0.0 180.8
176 87.6 0.0 181.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion: 117 Resp: 366986
Ion Ratio Lower Upper
117 100
82 52.3 43.0 64.4
119 32.6 26.1 39.1

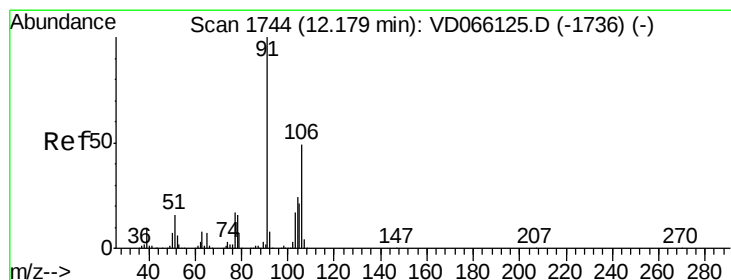
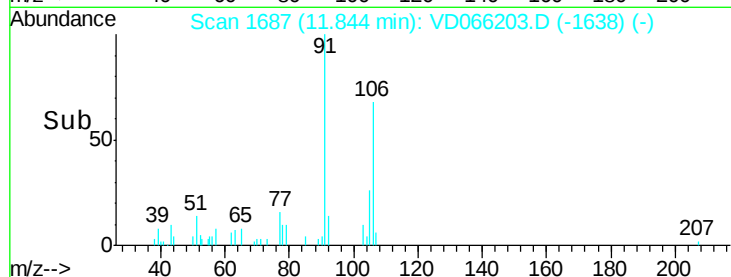
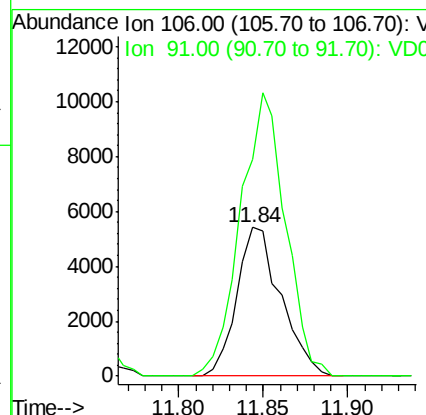
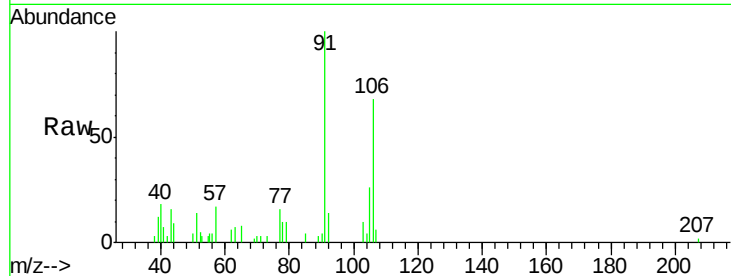




#68
m/p-Xylenes
Concen: 1.968 ug/l
RT: 11.84 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

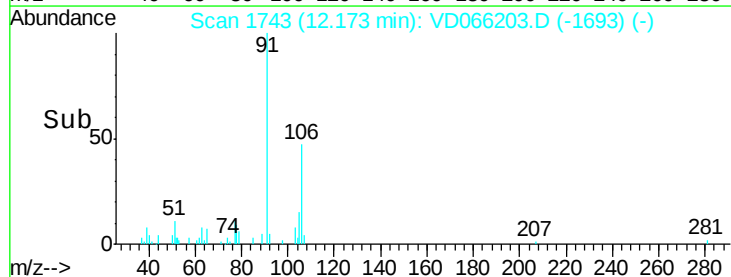
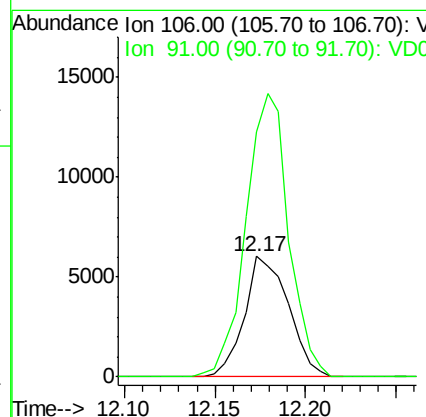
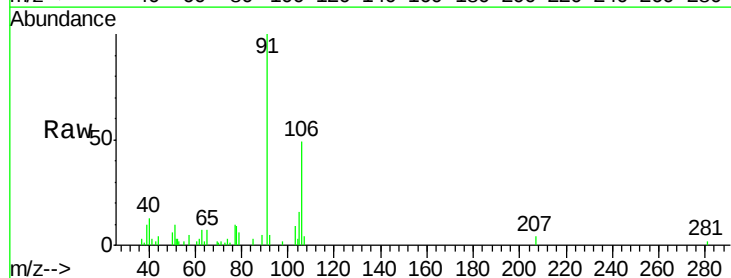
Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

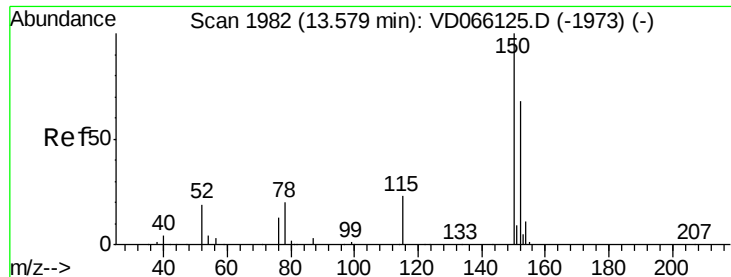
Tgt Ion:106 Resp: 9842
Ion Ratio Lower Upper
106 100
91 194.4 156.6 235.0



#69
o-Xylene
Concen: 2.235 ug/l
RT: 12.17 min Scan# 1743
Delta R.T. -0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion:106 Resp: 10169
Ion Ratio Lower Upper
106 100
91 227.9 105.7 317.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066203.D

Acq: 12 Aug 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

STOCKPILE-1-A

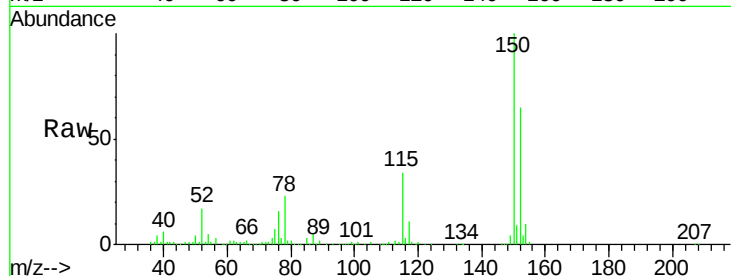
Tgt Ion:152 Resp: 196750

Ion Ratio Lower Upper

152 100

115 55.7 28.0 83.9

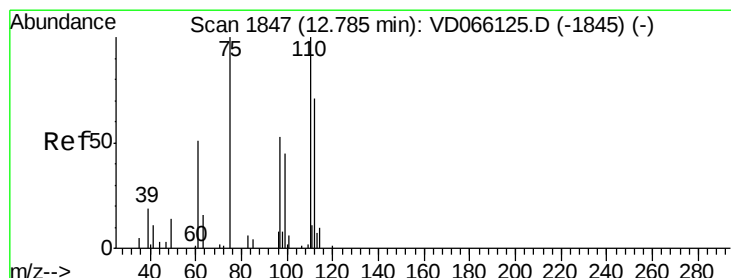
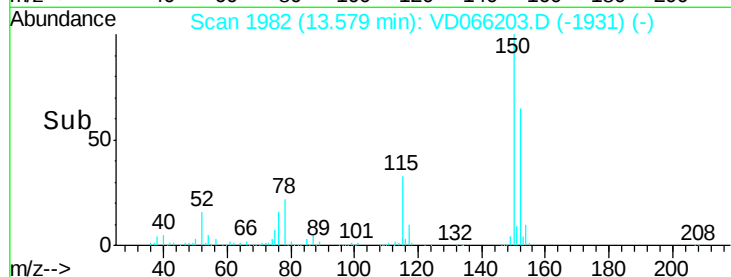
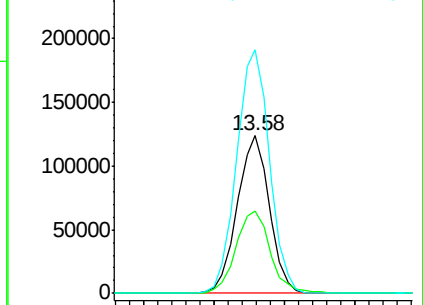
150 157.9 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 51.261 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066203.D

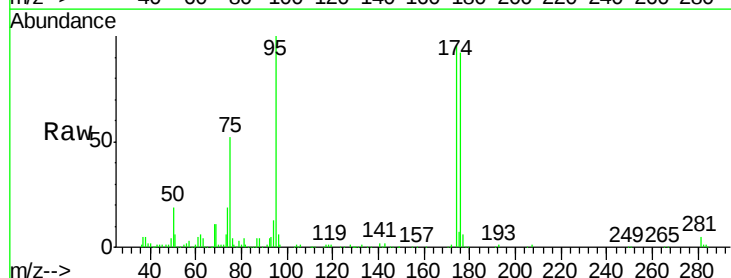
Acq: 12 Aug 2020 14:42

Tgt Ion: 75 Resp: 84107

Ion Ratio Lower Upper

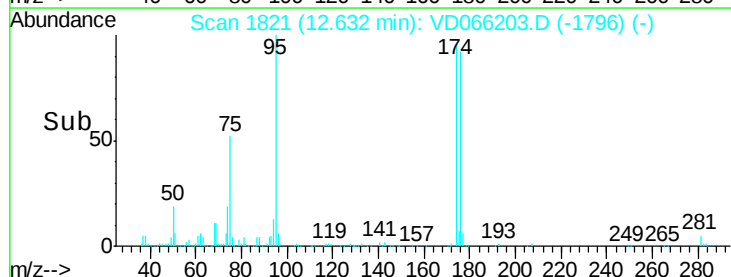
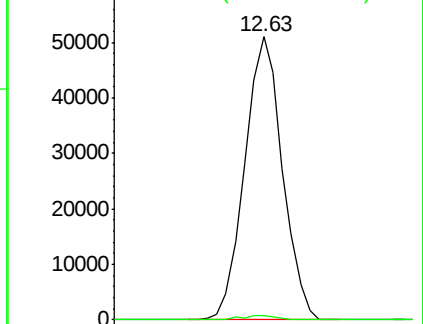
75 100

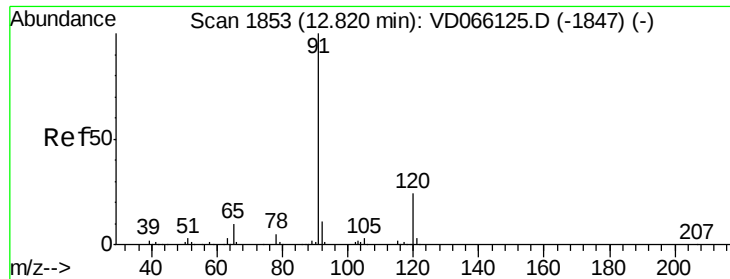
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#78

n-propylbenzene

Concen: 1.389 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VD066203.D

Acq: 12 Aug 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

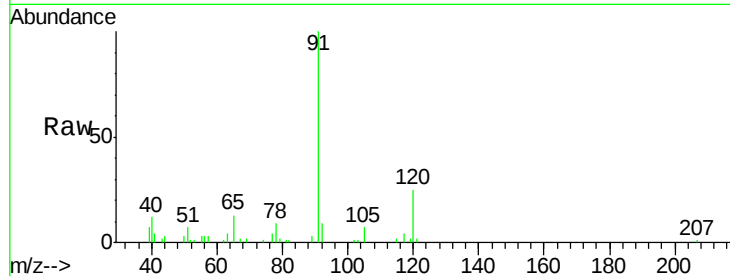
STOCKPILE-1-A

Tgt Ion: 91 Resp: 21213

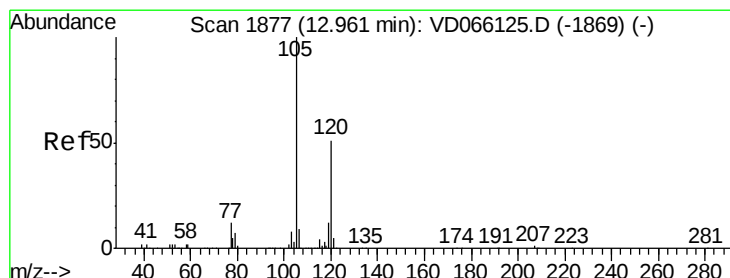
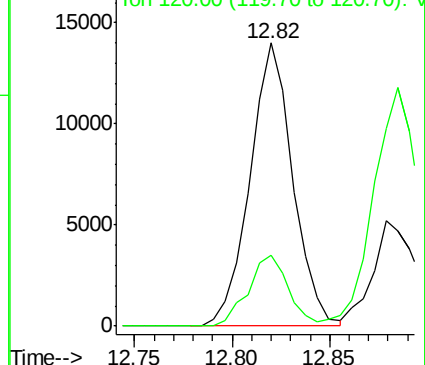
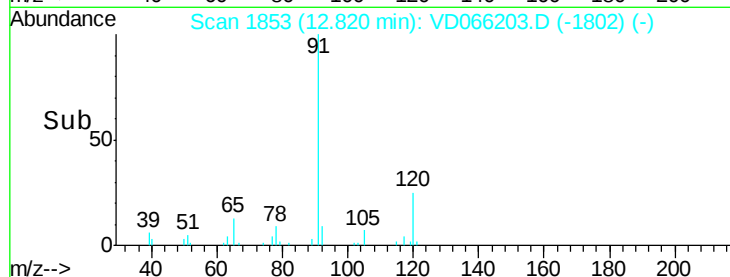
Ion Ratio Lower Upper

91 100

120 23.5 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VD066203.D (-1802) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.022 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD066203.D

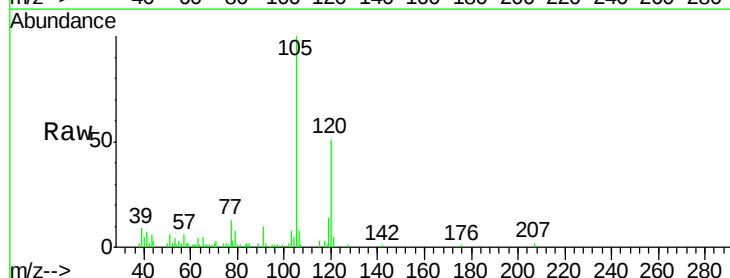
Acq: 12 Aug 2020 14:42

Tgt Ion: 105 Resp: 55162

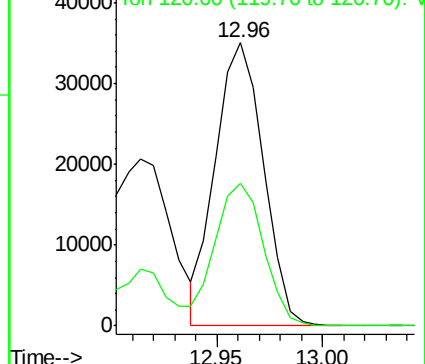
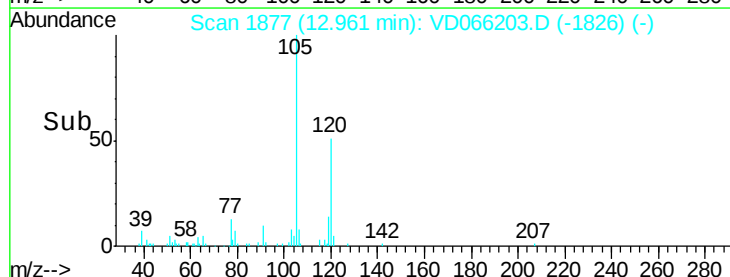
Ion Ratio Lower Upper

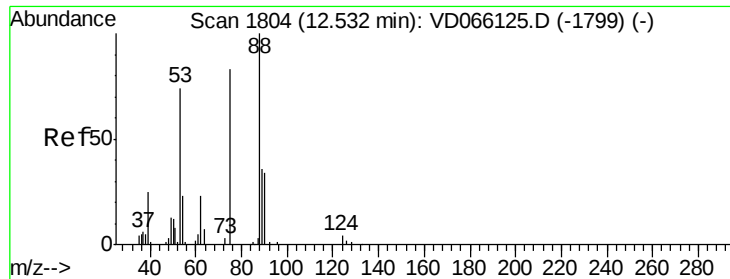
105 100

120 52.4 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): VD066203.D (-1826) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 113.316 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066203.D

Acq: 12 Aug 2020 14:42

Instrument :

MSVOA_D

ClientSampleId :

STOCKPILE-1-A

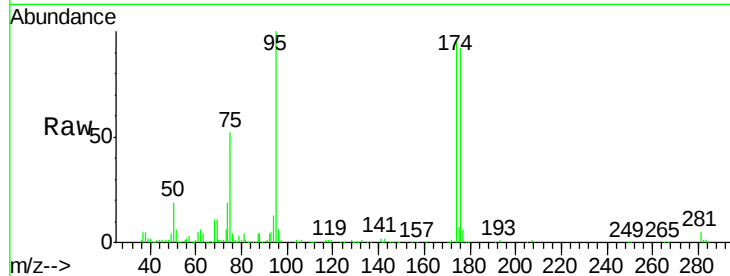
Tgt Ion: 75 Resp: 84107

Ion Ratio Lower Upper

75 100

53 0.3 73.4 110.2#

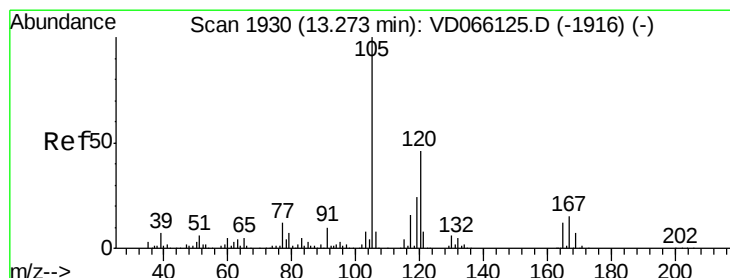
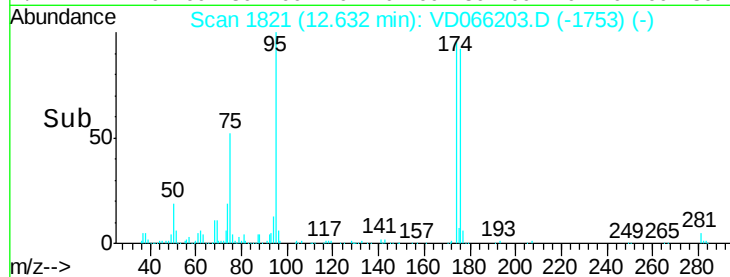
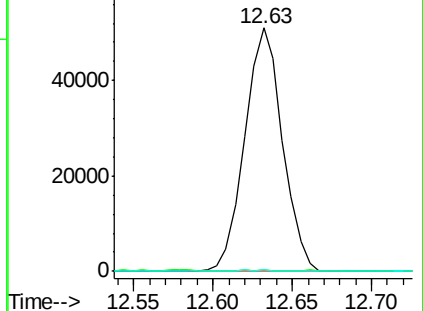
89 0.0 36.6 55.0#



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: 9.767 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066203.D

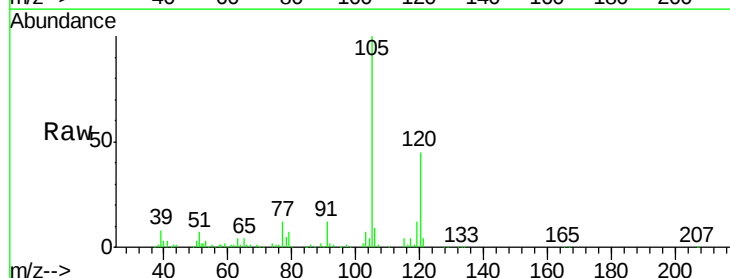
Acq: 12 Aug 2020 14:42

Tgt Ion: 105 Resp: 107361

Ion Ratio Lower Upper

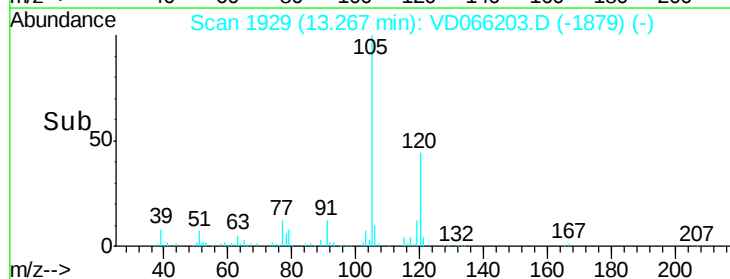
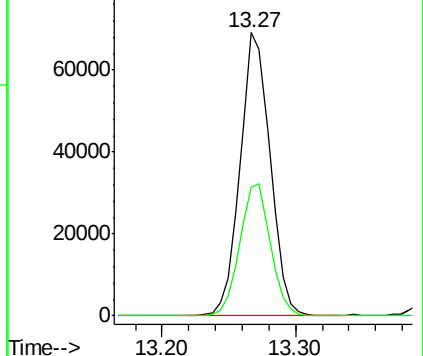
105 100

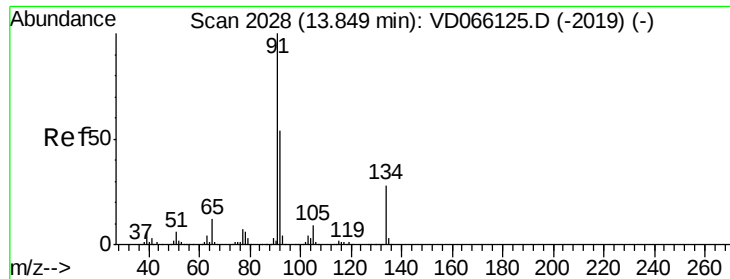
120 47.4 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

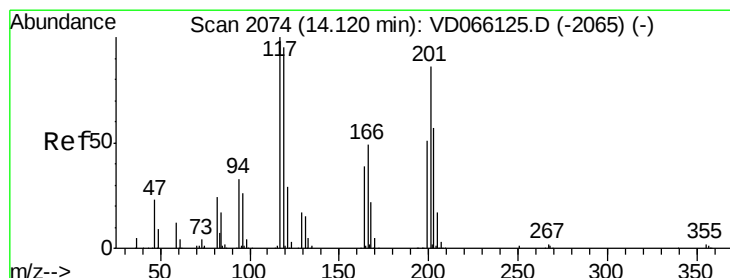
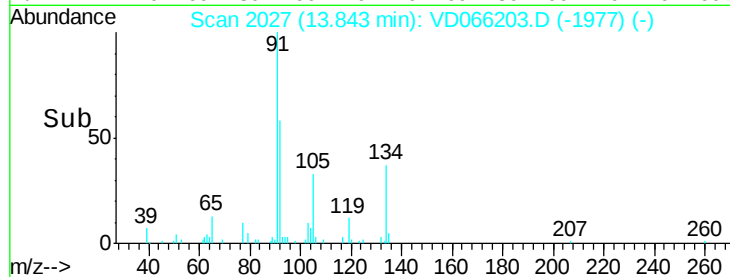
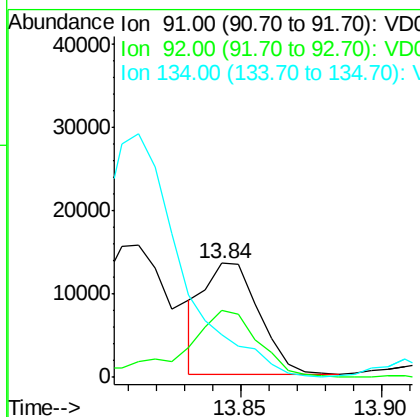
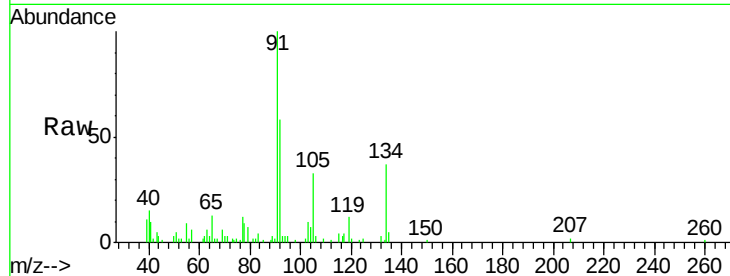




#89
n-Butylbenzene
Concen: 1.640 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.01 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

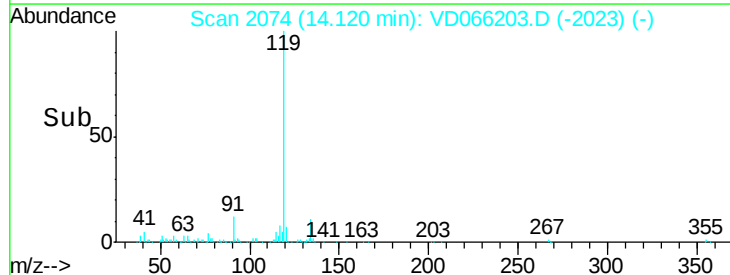
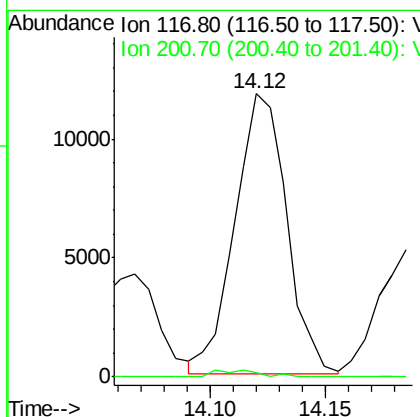
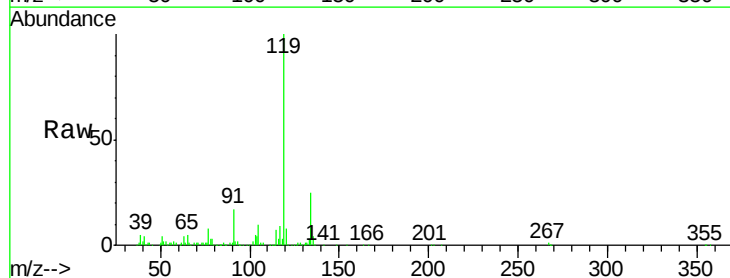
Instrument :
MSVOA_D
ClientSampleId :
STOCKPILE-1-A

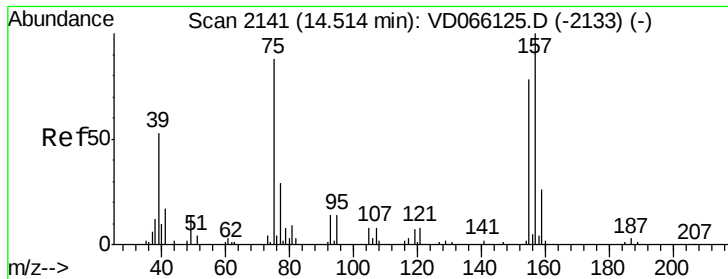
Tgt Ion: 91 Resp: 17978
Ion Ratio Lower Upper
91 100
92 82.7 26.8 80.3#
134 0.0 14.0 41.9#



#90
Hexachloroethane
Concen: 7.543 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD066203.D
Acq: 12 Aug 2020 14:42

Tgt Ion: 117 Resp: 18402
Ion Ratio Lower Upper
117 100
201 2.0 42.7 128.1#

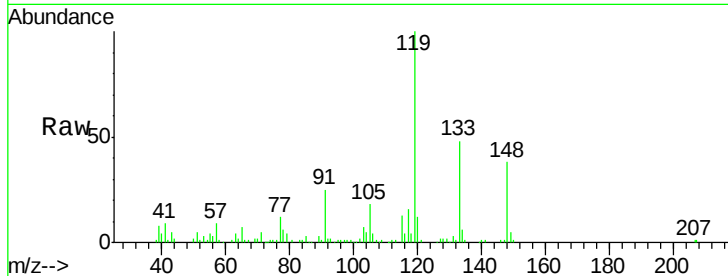




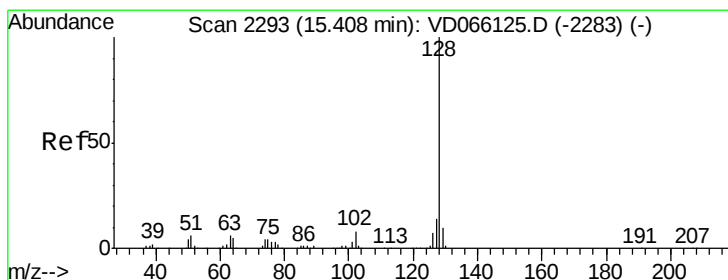
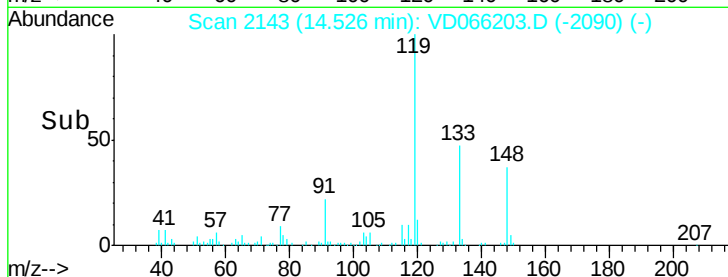
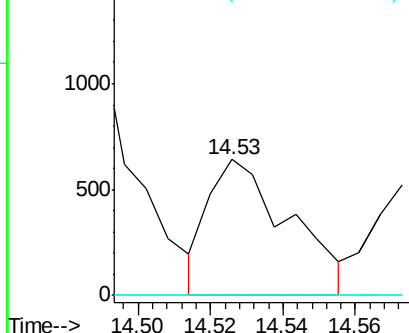
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.582 ug/l
 RT: 14.53 min Scan# 2143
 Delta R.T. 0.01 min
 Lab File: VD066203.D
 Acq: 12 Aug 2020 14:42

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCKPILE-1-A

Tgt Ion: 75 Resp: 994
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.7 143.1#
 157 0.0 62.1 186.2#

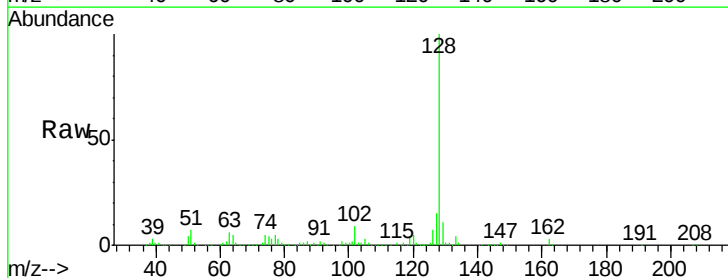


Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 68.411 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VD066203.D
 Acq: 12 Aug 2020 14:42

Tgt Ion: 128 Resp: 461619
 Ion Ratio Lower Upper
 128 100
 127 13.9 11.0 16.4
 129 11.2 8.8 13.2



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

