

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053119\
 Data File : VD062565.D
 Acq On : 31 May 2019 15:53
 Operator : VA/AP
 Sample : K3097-02RE
 Misc : 5.09g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

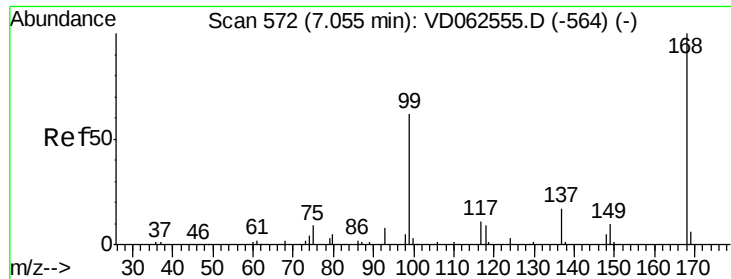
Quant Time: May 31 23:27:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	4384	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	5356	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	4143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	1478	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	1373	26.71	ug/l	0.00
Spiked Amount			Recovery	=	53.42%	
35) Dibromofluoromethane	6.93	113	1893	38.79	ug/l	0.00
Spiked Amount			Recovery	=	77.58%	
50) Toluene-d8	10.42	98	4827	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	
62) 4-Bromofluorobenzene	13.56	95	1897	39.34	ug/l	0.00
Spiked Amount			Recovery	=	78.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.34	142	225	4.091	ug/l #	27
14) Allyl chloride	3.73	41	256	4.780	ug/l #	7
23) Vinyl Acetate	4.92	43	203	3.059	ug/l #	80
27) cis-1,2-Dichloroethene	6.00	96	189	4.725	ug/l	1
43) Isopropyl Acetate	9.23	43	179	6.398	ug/l #	50
53) t-1,3-Dichloropropene	10.93	75	421	8.392	ug/l #	1
55) 1,1,2-Trichloroethane	11.23	97	288	12.290	ug/l #	16
67) Ethyl Benzene	12.55	91	630	4.260	ug/l #	47
68) m/p-Xylenes	12.67	106	208	4.066	ug/l #	23
74) N-amyl acetate	13.12	43	207	8.332	ug/l #	51
76) 1,2,3-Trichloropropane	13.72	75	208	11.730	ug/l #	42
78) n-propylbenzene	13.78	91	200	1.781	ug/l #	57
79) 2-Chlorotoluene	13.78	91	200	3.071	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.93	105	392	4.708	ug/l #	34
81) trans-1,4-Dichloro-2-buten	13.57	75	717	141.117	ug/l #	5
82) 4-Chlorotoluene	13.94	91	255	3.271	ug/l #	41
84) 1,2,4-Trimethylbenzene	14.24	105	997	11.751	ug/l #	59
85) sec-Butylbenzene	14.24	105	997	10.130	ug/l #	60
87) 1,3-Dichlorobenzene	14.55	146	190	4.103	ug/l #	25
88) 1,4-Dichlorobenzene	14.55	146	190	4.094	ug/l #	26
95) Naphthalene	16.00	128	180	4.243	ug/l #	71

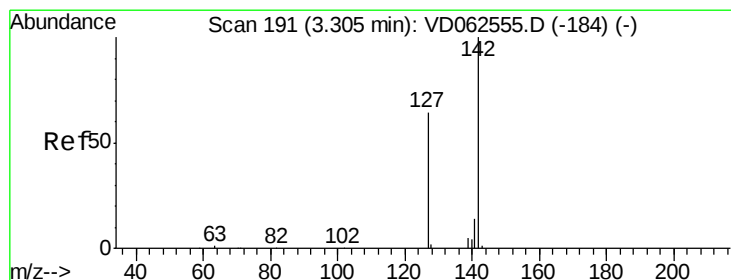
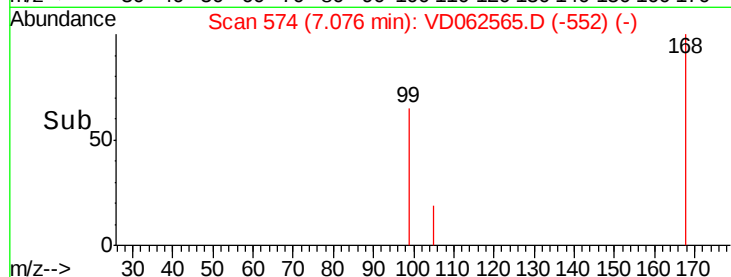
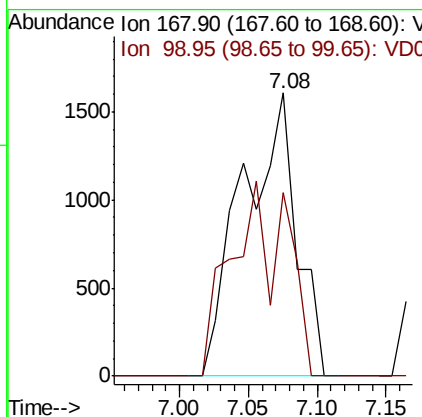
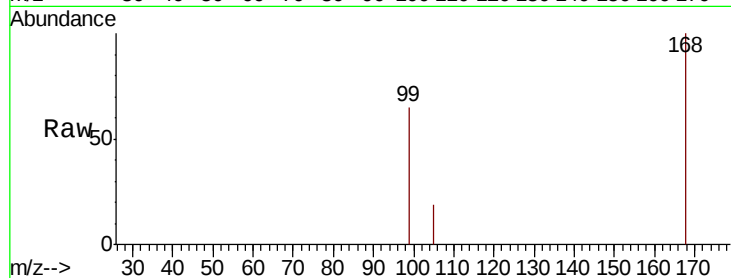
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.08 min Scan# 574
Delta R.T. 0.02 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

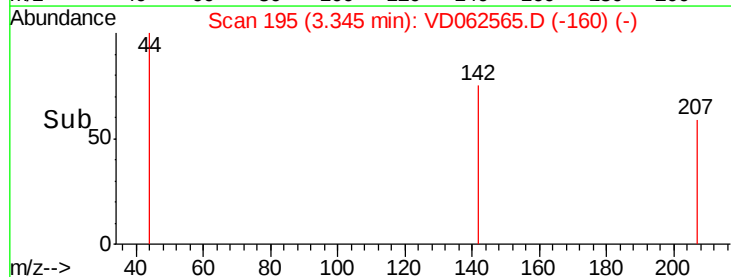
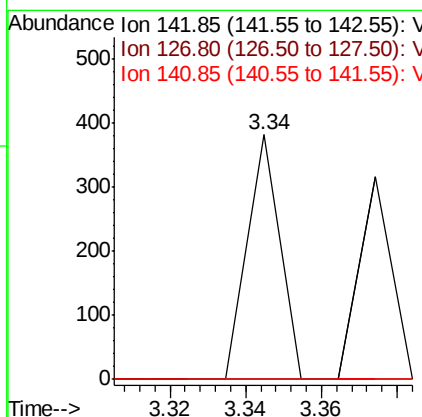
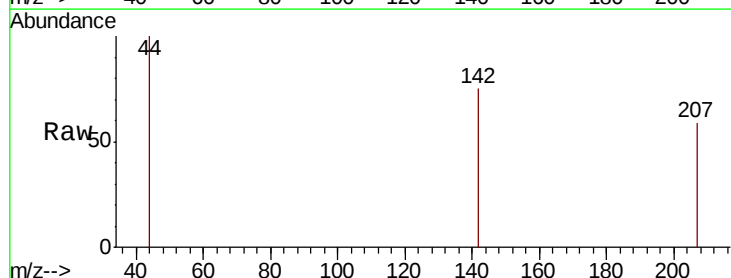
Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

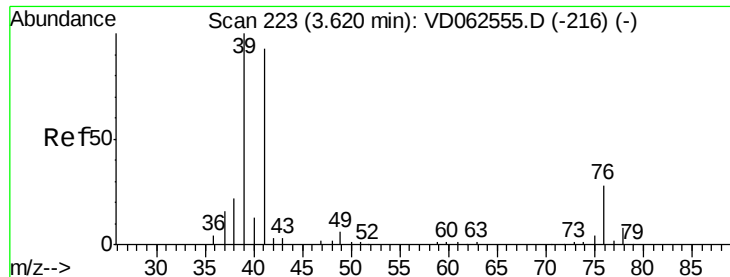
Tot Ion:168 Resp: 4384
Ion Ratio Lower Upper
168 100
99 64.9 50.8 76.2



#10
Methyl Iodide
Concen: 4.091 ug/l
RT: 3.34 min Scan# 195
Delta R.T. 0.04 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion:142 Resp: 225
Ion Ratio Lower Upper
142 100
127 0.0 51.2 76.8#
141 0.0 11.0 16.4#

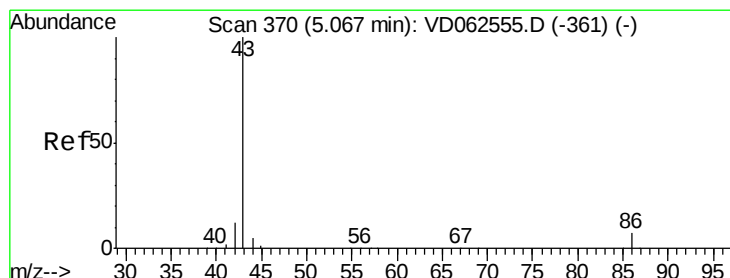
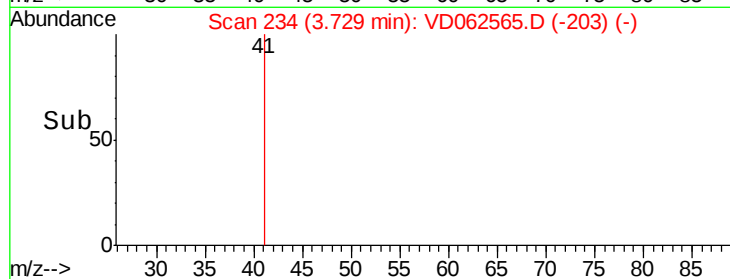
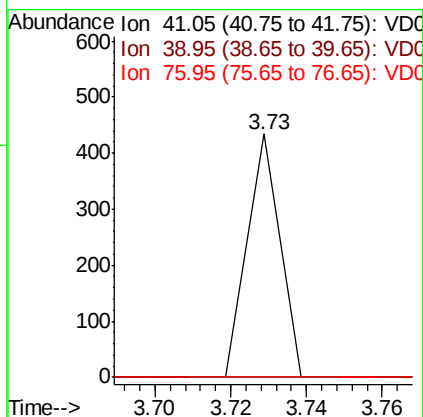
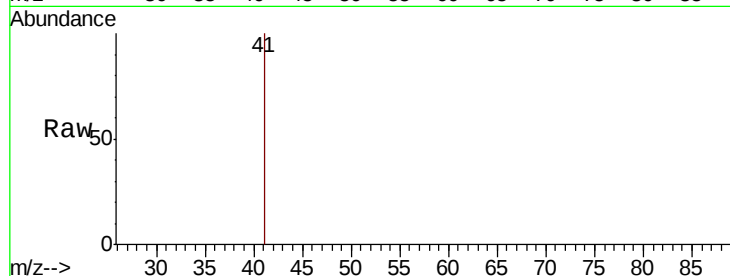




#14
Allvl chloride
Concen: 4.780 ug/l
RT: 3.73 min Scan# 234
Delta R.T. 0.11 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

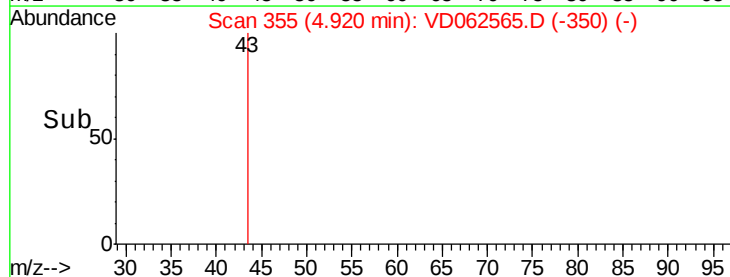
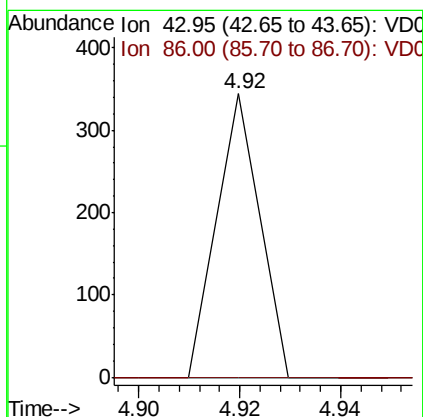
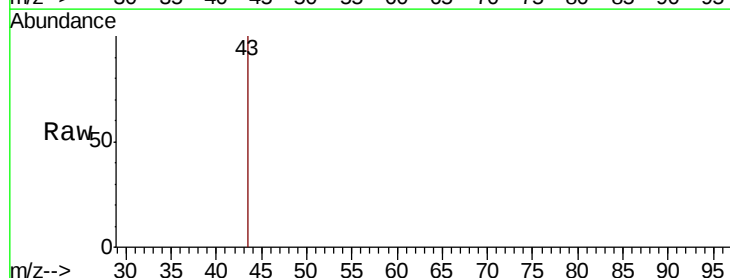
Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

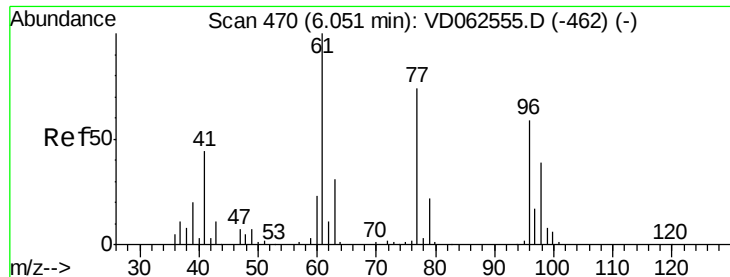
Tot Ion: 41 Resp: 256
Ion Ratio Lower Upper
41 100
39 0.0 86.3 129.5#
76 0.0 25.5 38.3#



#23
Vinyl Acetate
Concen: 3.059 ug/l
RT: 4.92 min Scan# 355
Delta R.T. -0.15 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
86 0.0 5.5 8.3#



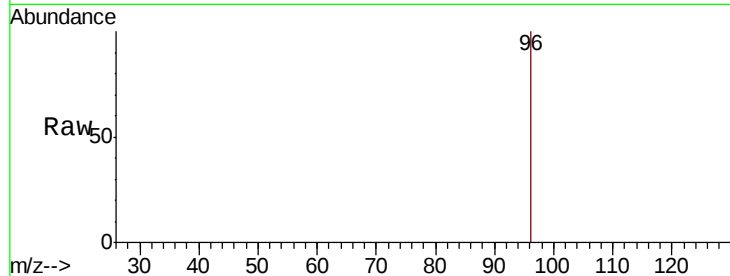


#27

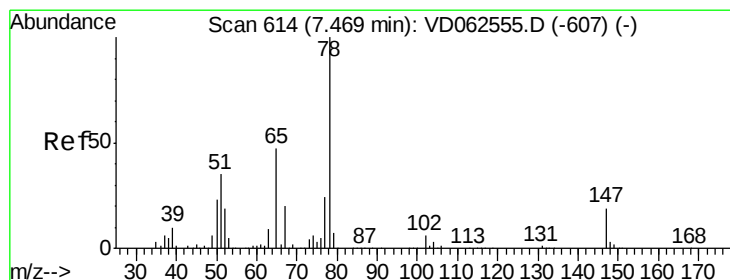
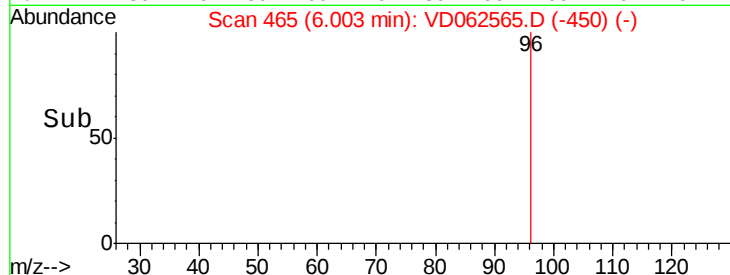
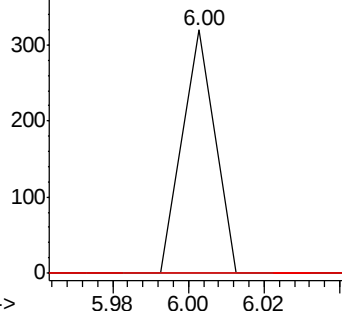
cis-1,2-Dichloroethene
Concen: 4.725 ug/l
RT: 6.00 min Scan# 465
Delta R.T. -0.05 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

Tot Ion: 96 Resp: 189
Ion Ratio Lower Upper
96 100
61 0.0 0.0 342.4
98 0.0 0.0 134.6



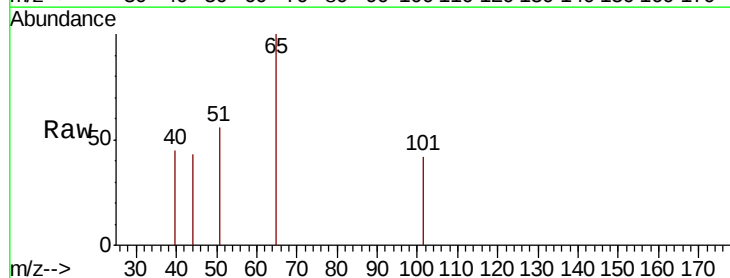
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



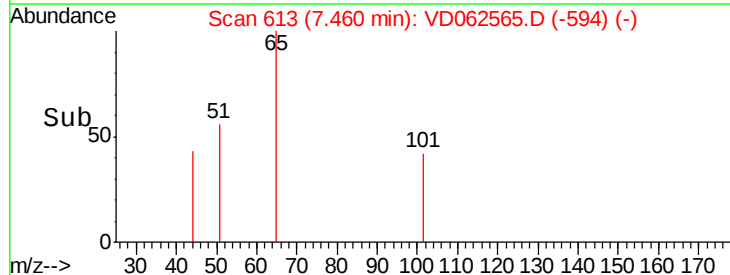
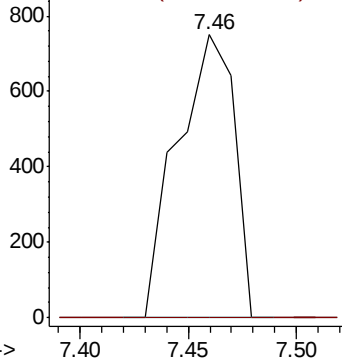
#33

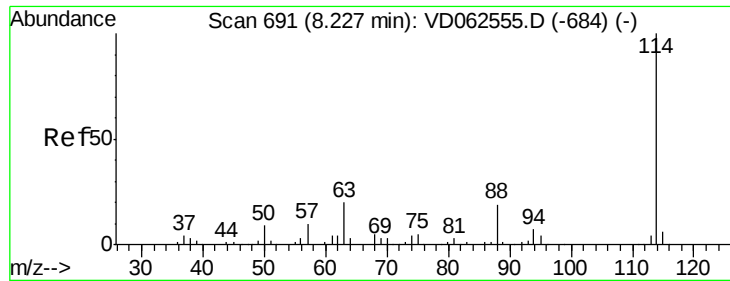
1,2-Dichloroethane-d4
Concen: 26.710 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.01 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion: 65 Resp: 1373
Ion Ratio Lower Upper
65 100
67 0.0 0.0 83.6



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

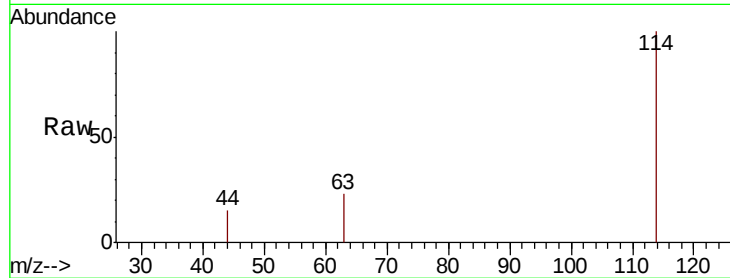
Tot Ion:114 Resp: 5356

Ion Ratio Lower Upper

114 100

63 22.6 0.0 40.6

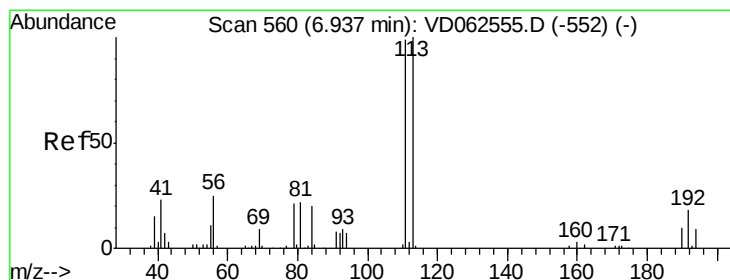
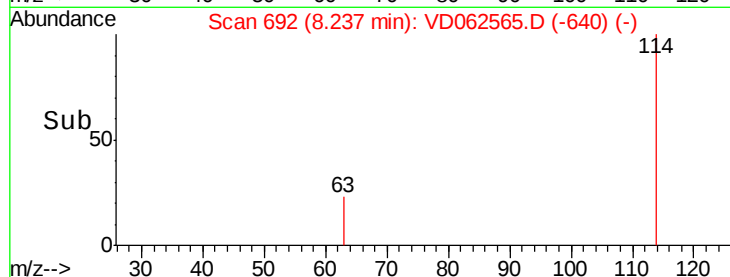
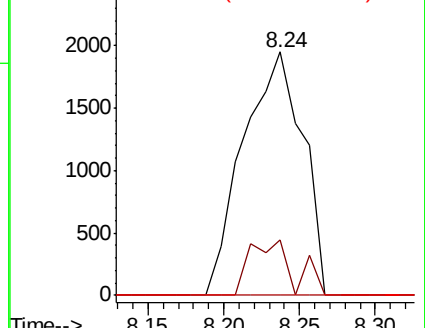
88 0.0 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 38.785 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

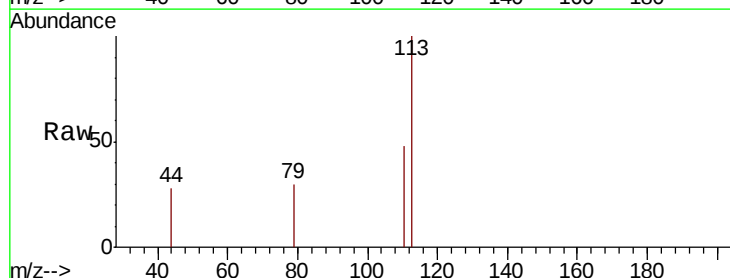
Tgt Ion:113 Resp: 1893

Ion Ratio Lower Upper

113 100

111 0.0 78.8 118.2#

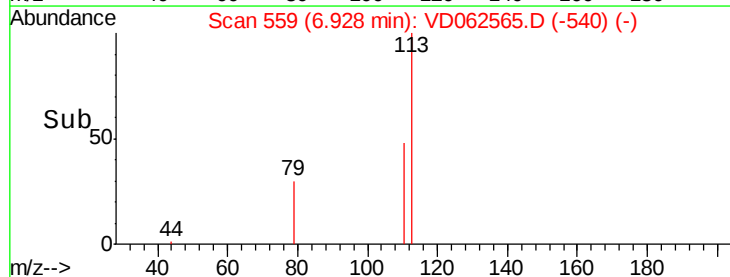
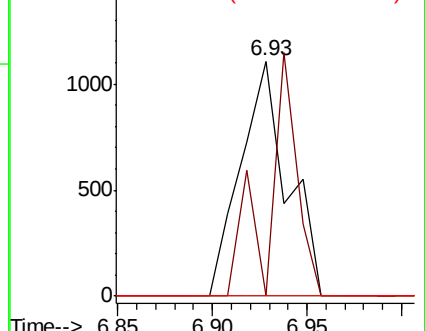
192 0.0 14.6 22.0#

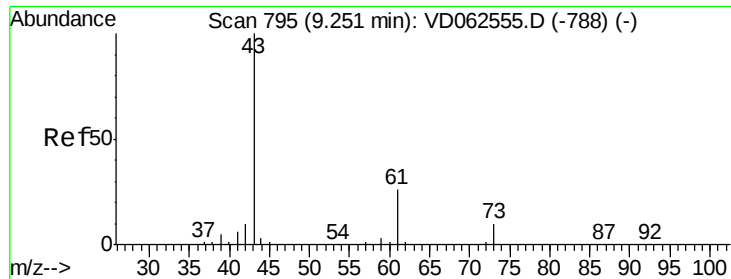


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#43

Isopropyl Acetate

Concen: 6.398 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.02 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

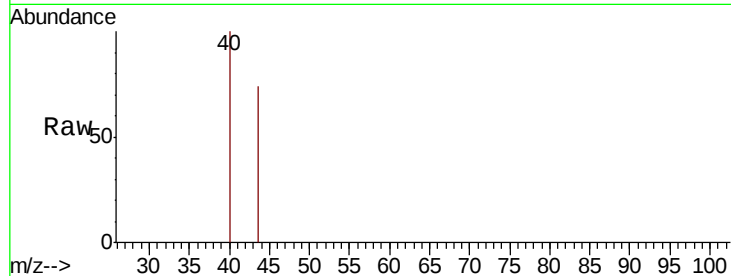
Tot Ion: 43 Resp: 179

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

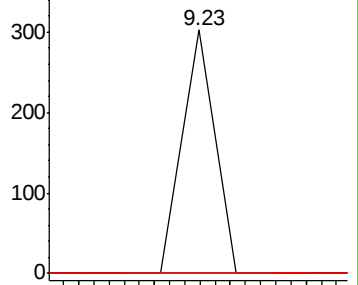
87 0.0 0.2 0.2#



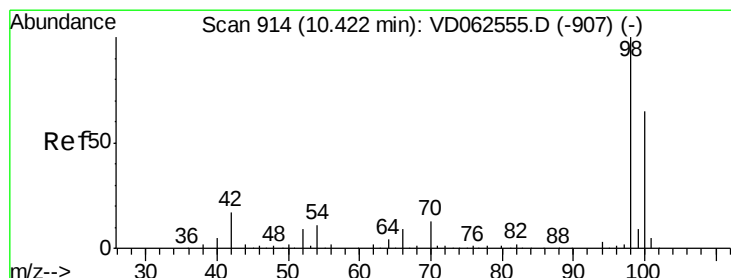
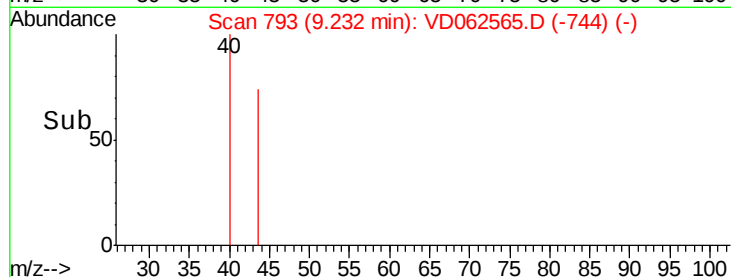
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



Time-->



#50

Toluene-d8

Concen: 45.138 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.00 min

Lab File: VD062565.D

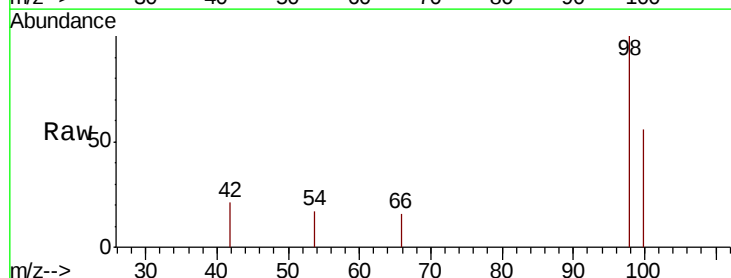
Acq: 31 May 2019 15:53

Tgt Ion: 98 Resp: 4827

Ion Ratio Lower Upper

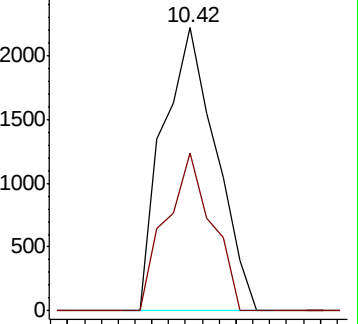
98 100

100 55.8 52.3 78.5

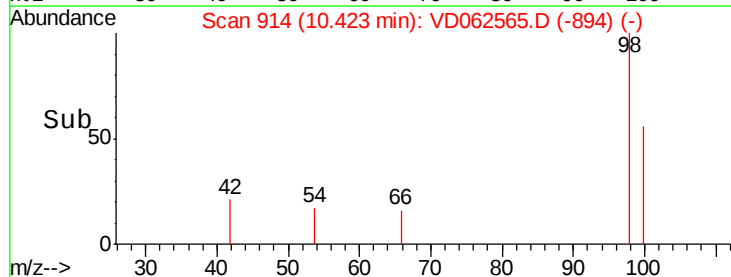


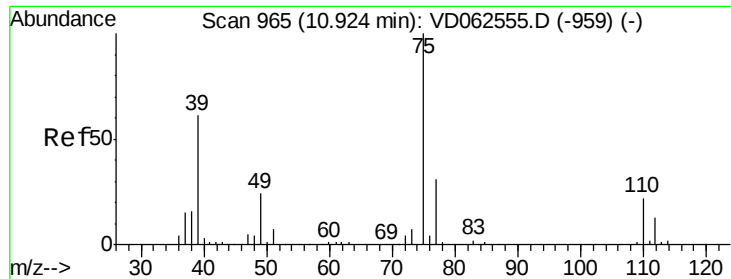
Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



Time-->





#53

t-1,3-Dichloropropene

Concen: 8.392 ug/l

RT: 10.93 min Scan# 966

Delta R.T. 0.01 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

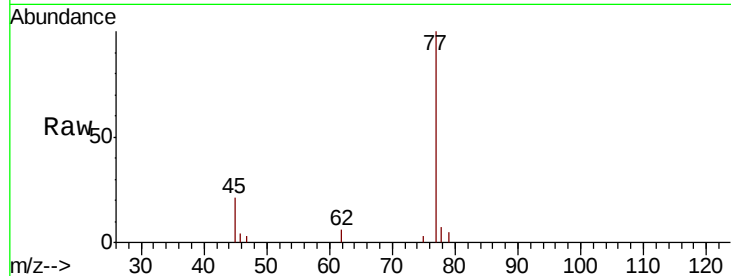
20190422-HR-2RE

Tot Ion: 75 Resp: 421

Ion Ratio Lower Upper

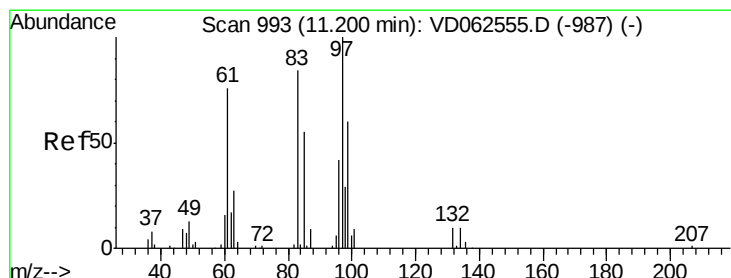
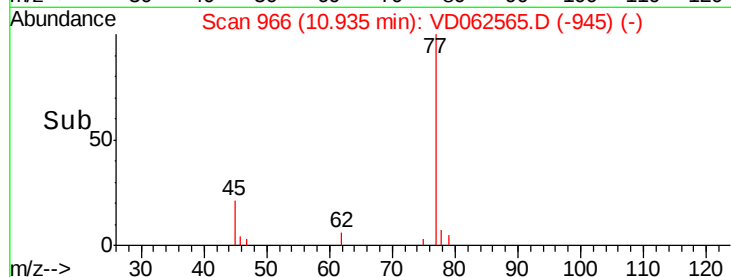
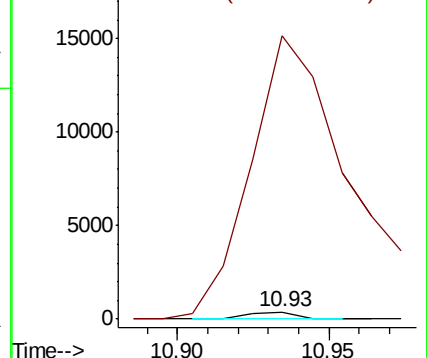
75 100

77 3929.4 24.5 36.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#55

1,1,2-Trichloroethane

Concen: 12.290 ug/l

RT: 11.23 min Scan# 996

Delta R.T. 0.03 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Tgt Ion: 97 Resp: 288

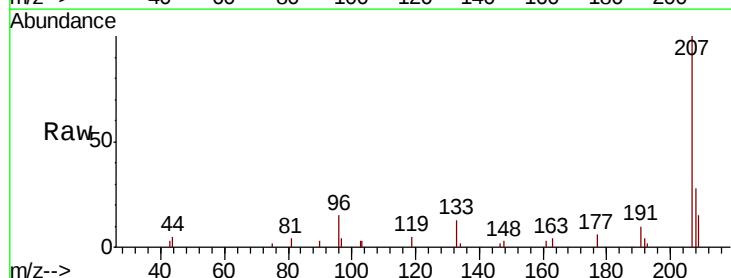
Ion Ratio Lower Upper

97 100

83 0.0 67.3 100.9#

85 0.0 43.8 65.8#

99 0.0 48.2 72.2#

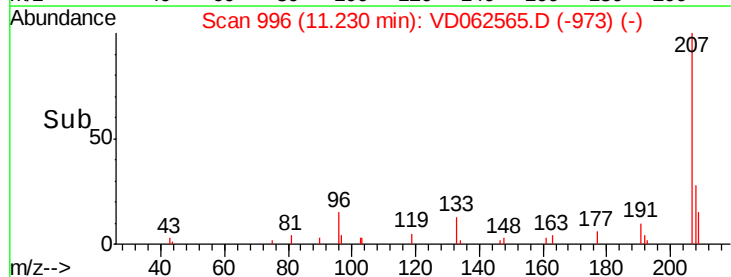
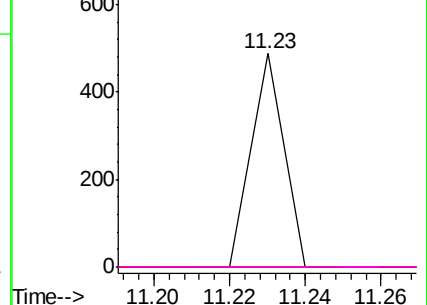


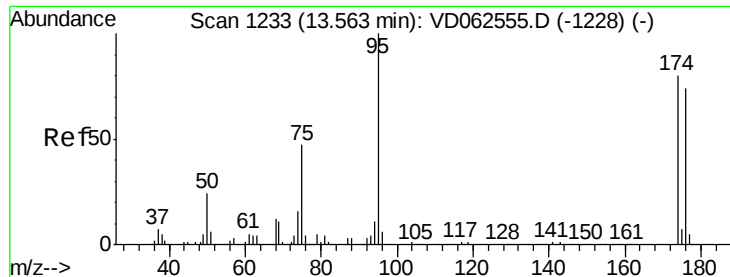
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC

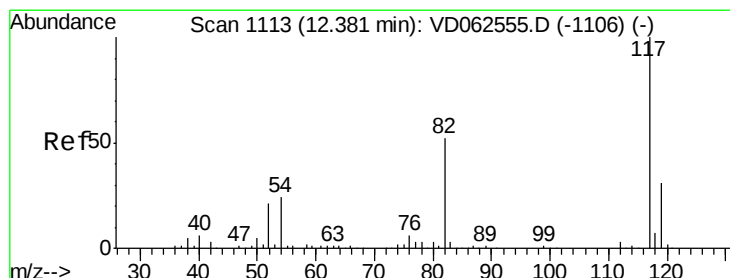
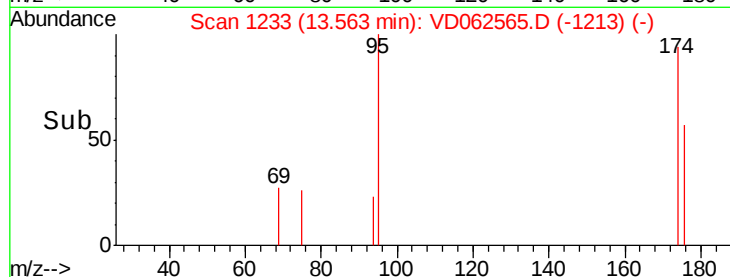
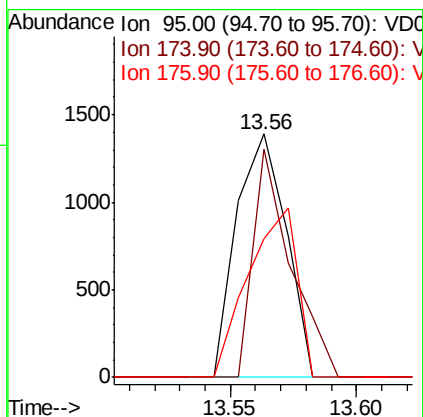
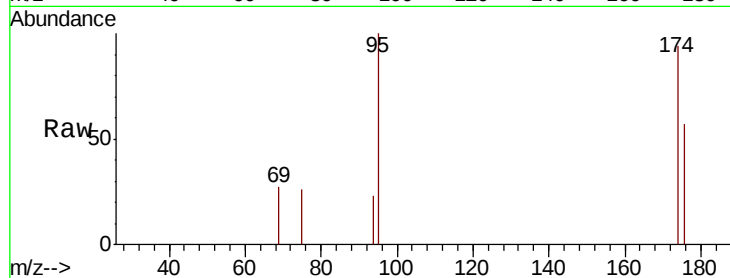




#62
4-Bromofluorobenzene
Concen: 39.336 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

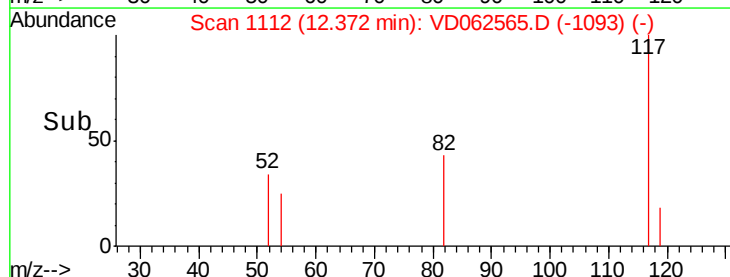
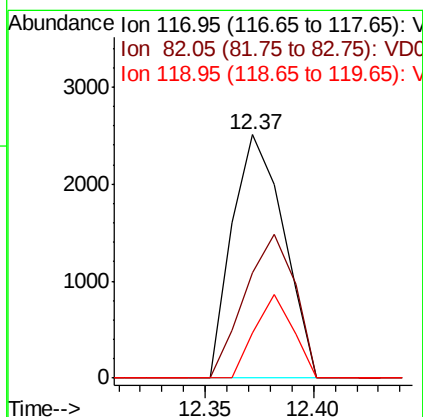
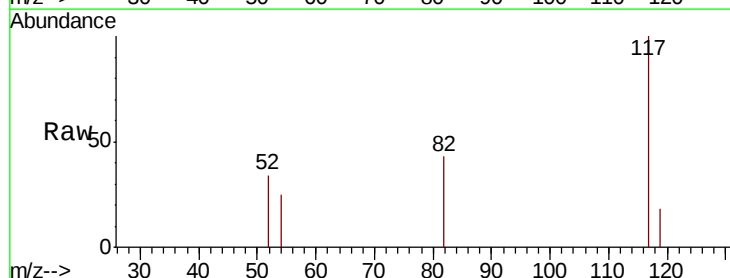
Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

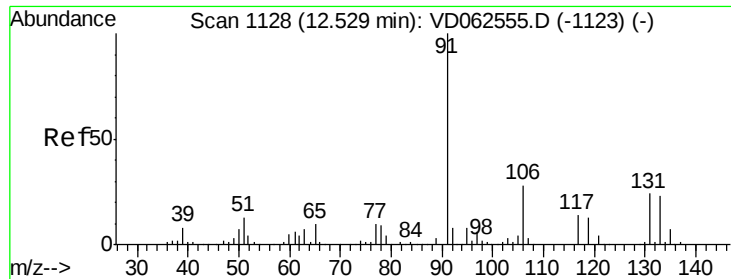
Tot Ion: 95 Resp: 1897
Ion Ratio Lower Upper
95 100
174 93.6 0.0 160.2
176 56.9 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion: 117 Resp: 4143
Ion Ratio Lower Upper
117 100
82 43.5 41.4 62.2
119 18.3 24.9 37.3#

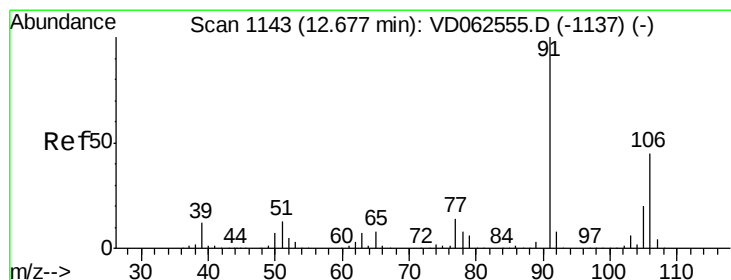
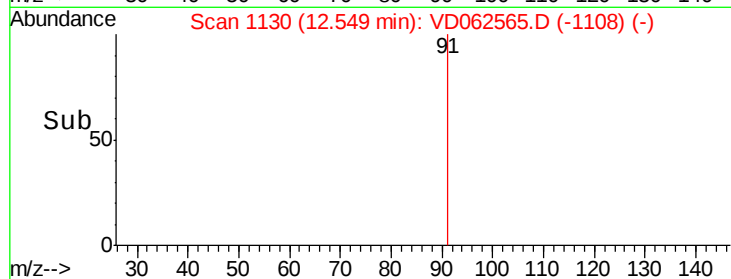
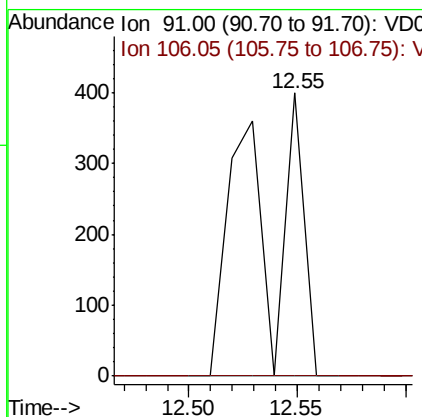
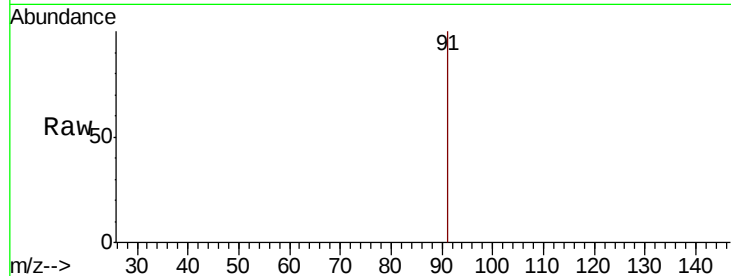




#67
Ethyl Benzene
Concen: 4.260 ug/l
RT: 12.55 min Scan# 1130
Delta R.T. 0.02 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

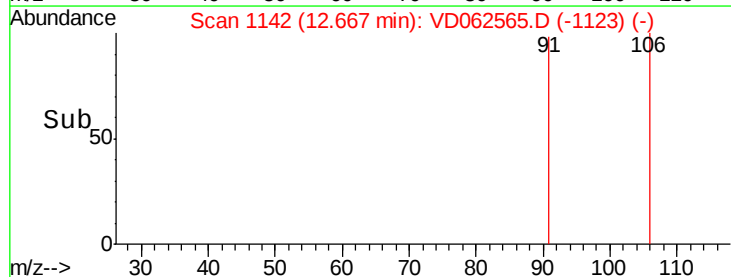
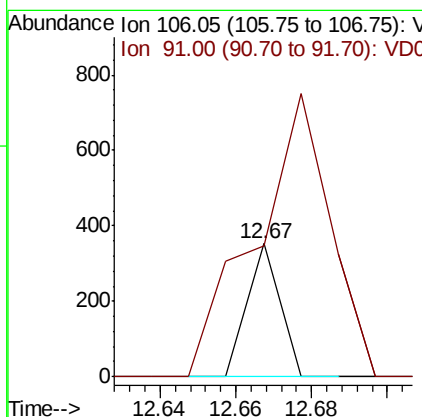
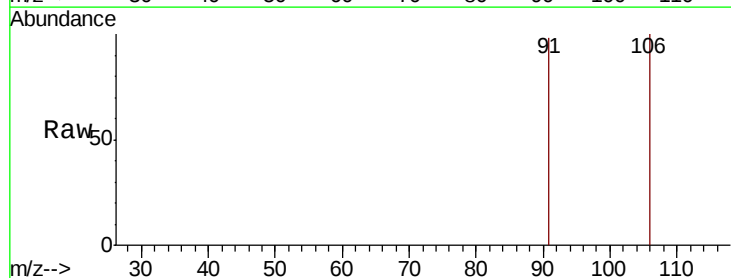
Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

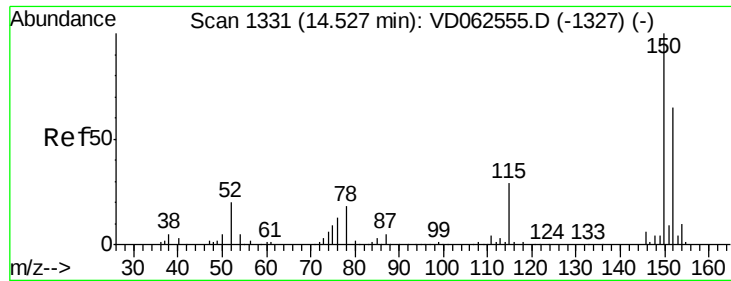
Tot Ion: 91 Resp: 630
Ion Ratio Lower Upper
91 100
106 0.0 22.2 33.2#



#68
m/p-Xylenes
Concen: 4.066 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion:106 Resp: 208
Ion Ratio Lower Upper
106 100
91 98.3 178.9 268.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

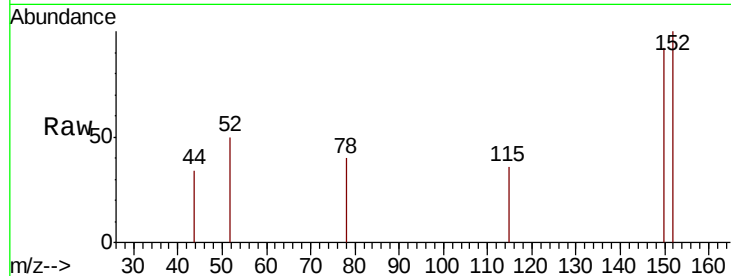
Tot Ion:152 Resp: 1478

Ion Ratio Lower Upper

152 100

115 36.4 28.4 85.3

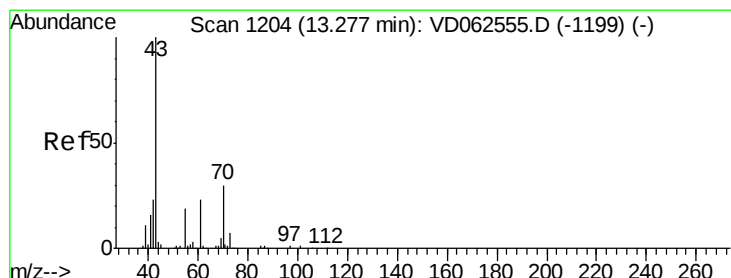
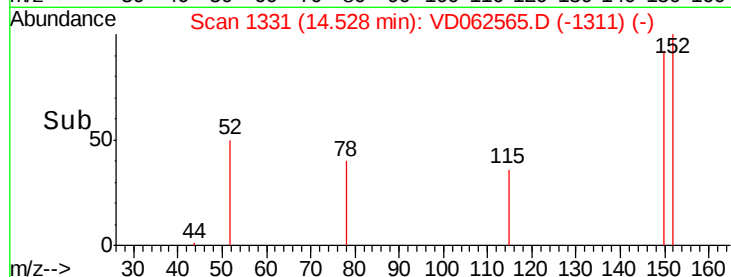
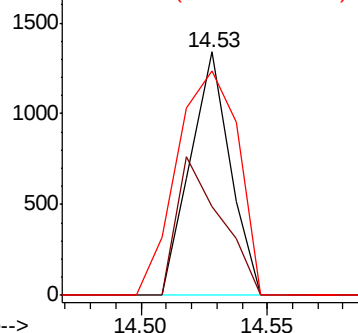
150 92.1 0.0 310.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 8.332 ug/l

RT: 13.12 min Scan# 1188

Delta R.T. -0.16 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Tgt Ion: 43 Resp: 207

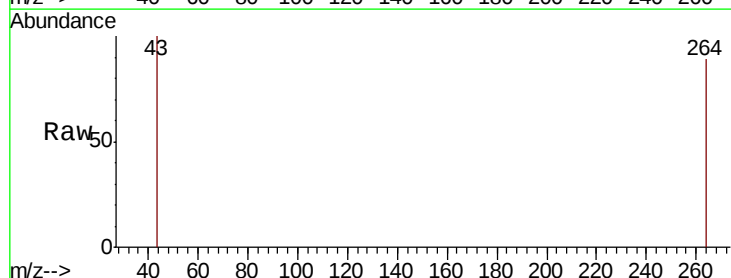
Ion Ratio Lower Upper

43 100

70 0.0 23.7 35.5#

55 0.0 15.0 22.4#

61 0.0 18.4 27.6#

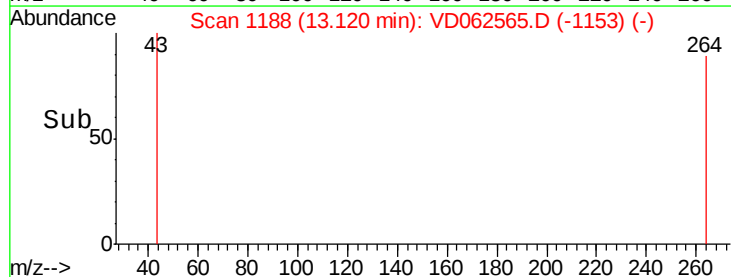
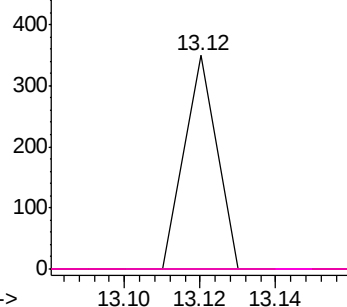


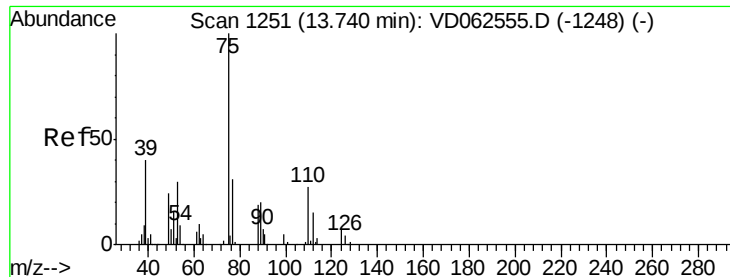
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

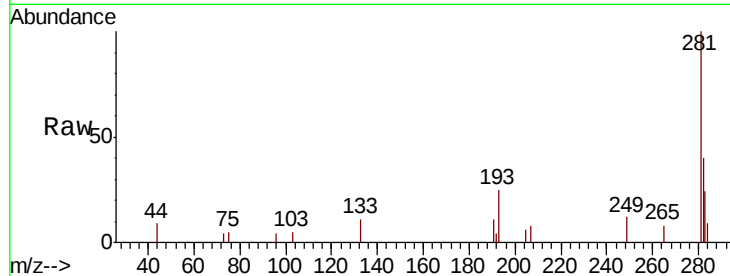




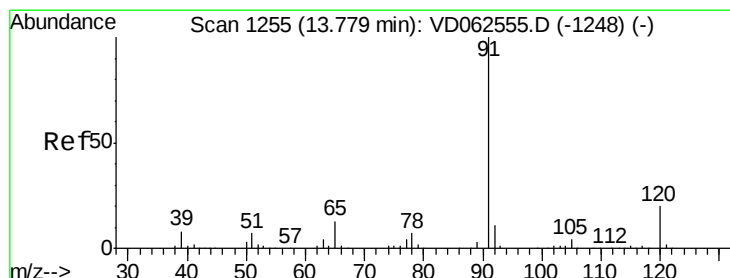
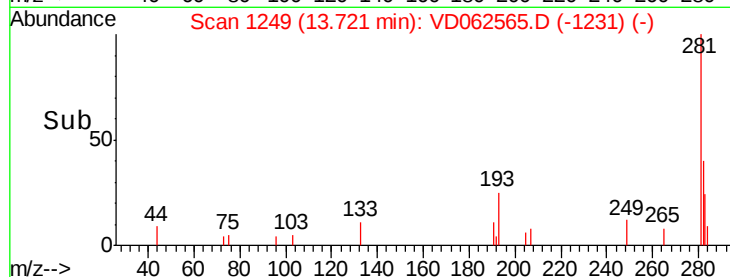
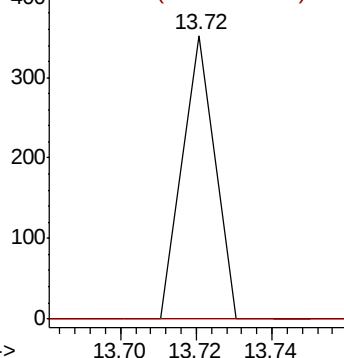
#76
 1,2,3-Trichloropropane
 Concen: 11.730 ug/l
 RT: 13.72 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

Tot Ion: 75 Resp: 208
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.5 49.5#

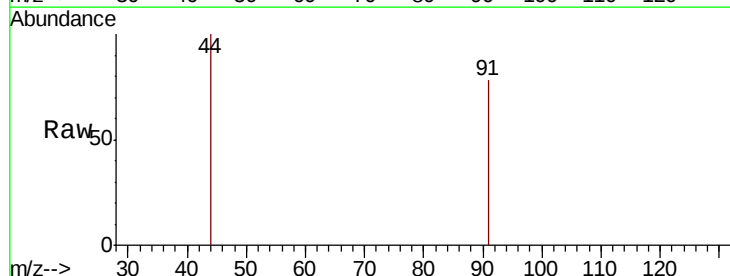


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC

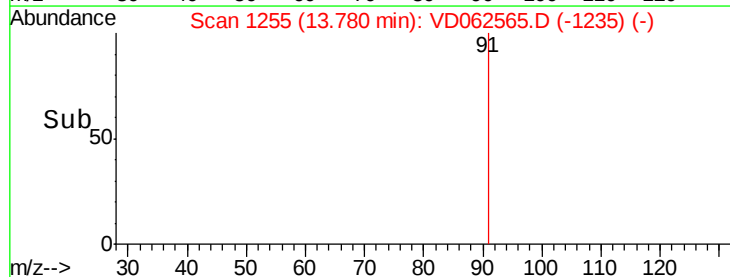
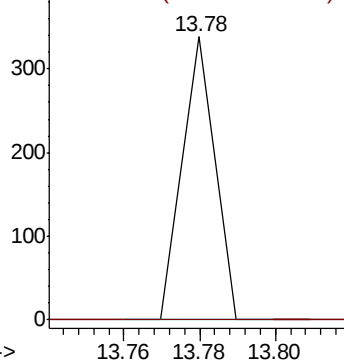


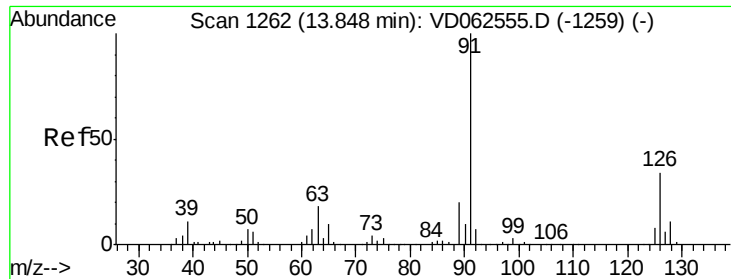
#78
 n-propylbenzene
 Concen: 1.781 ug/l
 RT: 13.78 min Scan# 1255
 Delta R.T. 0.00 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion: 91 Resp: 200
 Ion Ratio Lower Upper
 91 100
 120 0.0 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
 Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 3.071 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.07 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

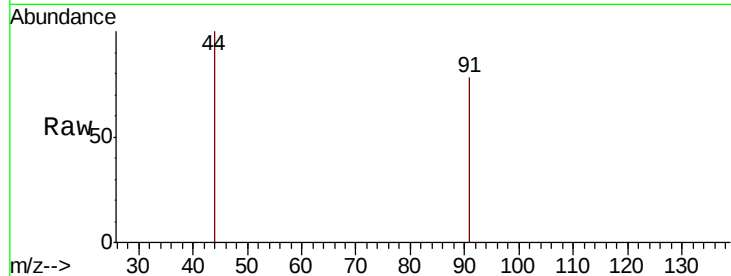
20190422-HR-2RE

Tot Ion: 91 Resp: 200

Ion Ratio Lower Upper

91 100

126 0.0 16.7 50.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

13.78

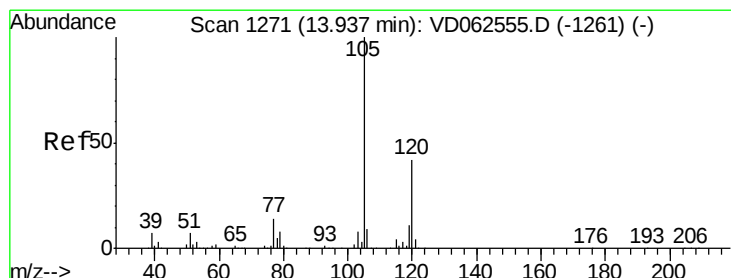
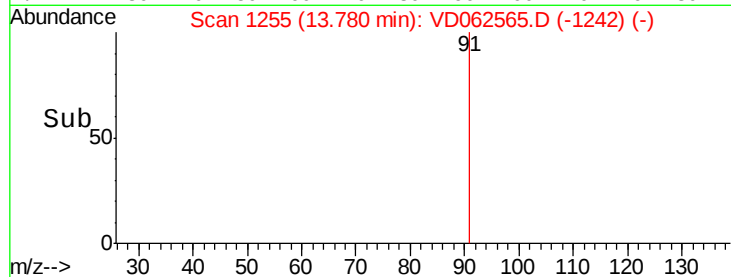
300

200

100

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 4.708 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD062565.D

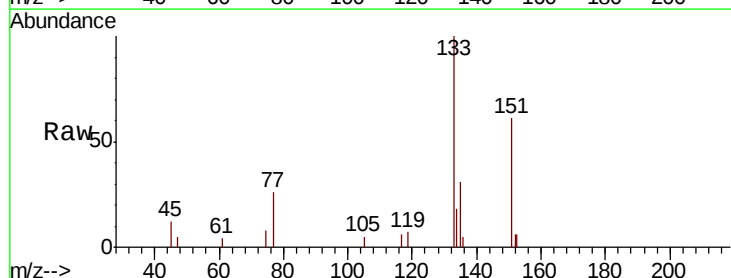
Acq: 31 May 2019 15:53

Tgt Ion: 105 Resp: 392

Ion Ratio Lower Upper

105 100

120 0.0 20.8 62.5#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.93

400

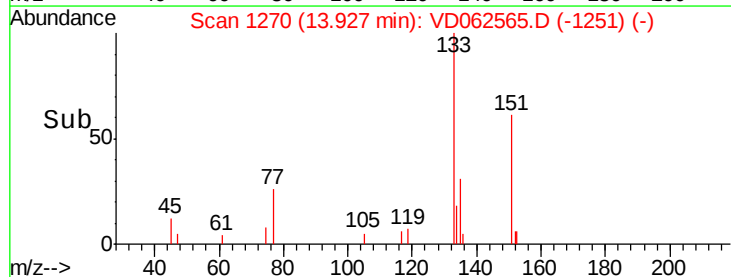
300

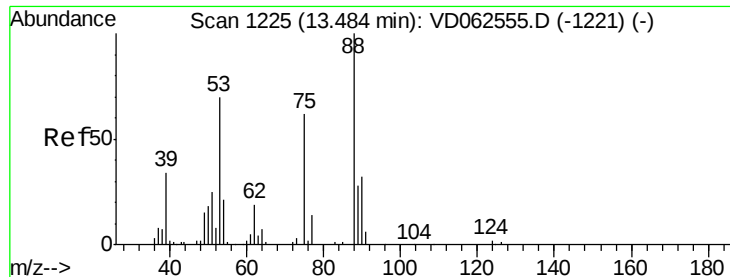
200

100

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 141.117 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

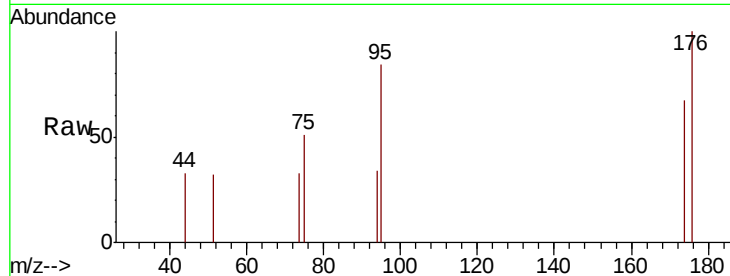
Tot Ion: 75 Resp: 717

Ion Ratio Lower Upper

75 100

53 0.0 91.0 136.4#

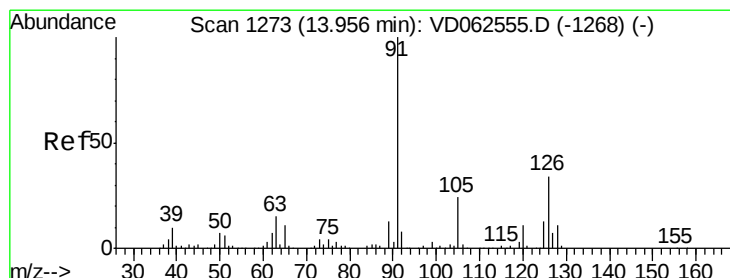
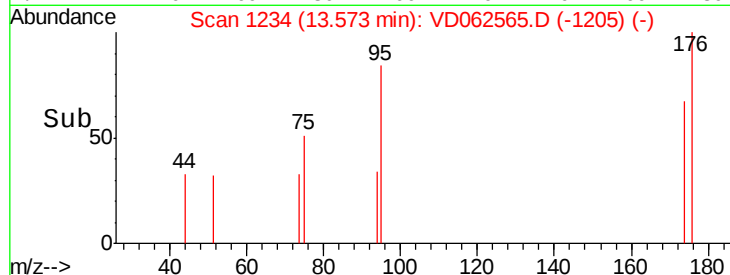
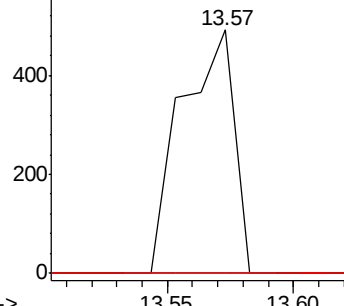
89 0.0 36.9 55.3#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 3.271 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD062565.D

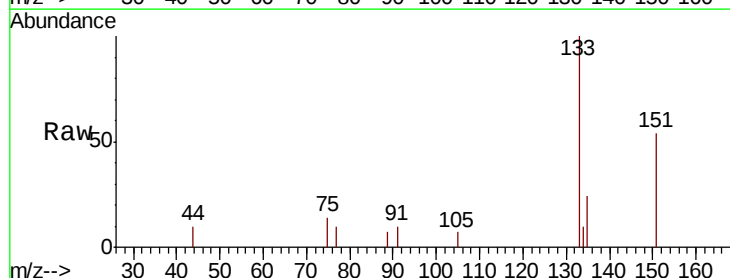
Acq: 31 May 2019 15:53

Tgt Ion: 91 Resp: 255

Ion Ratio Lower Upper

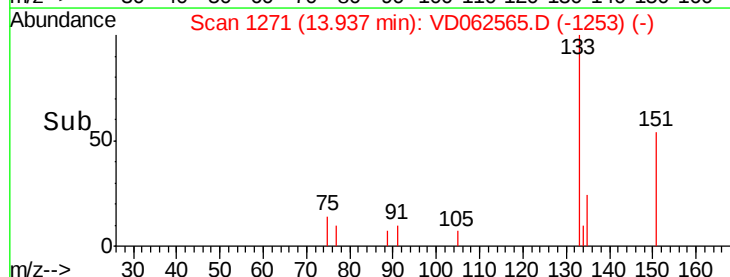
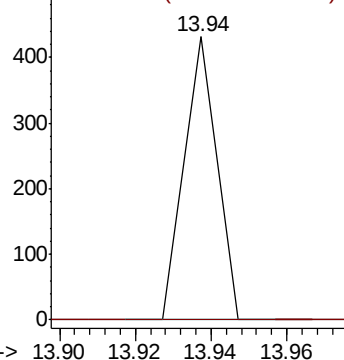
91 100

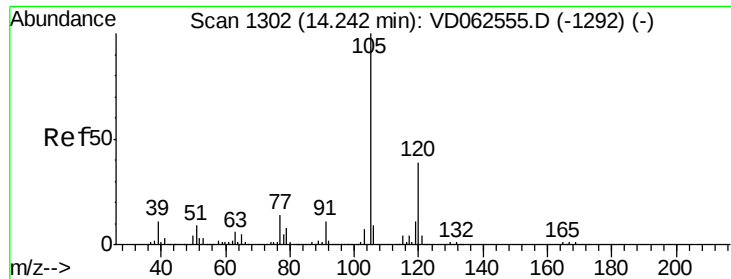
126 0.0 16.9 50.7#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

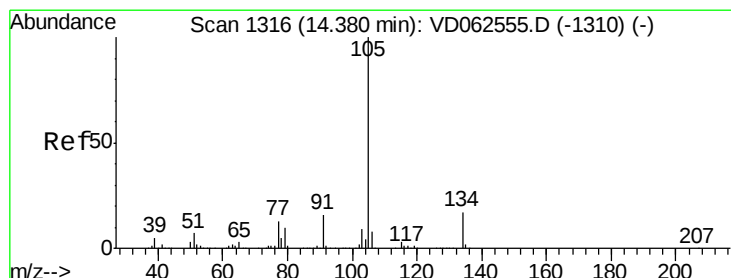
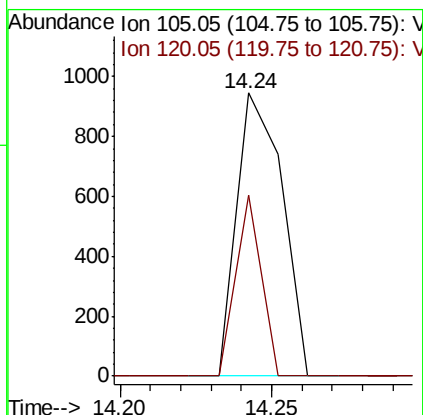
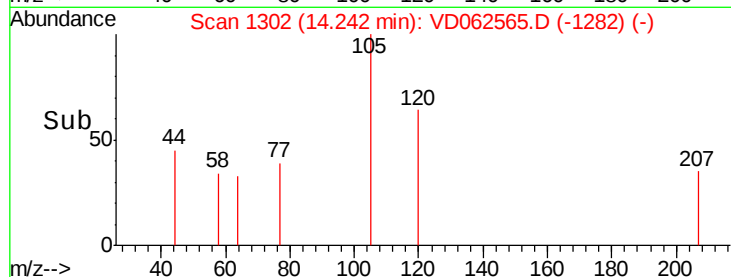
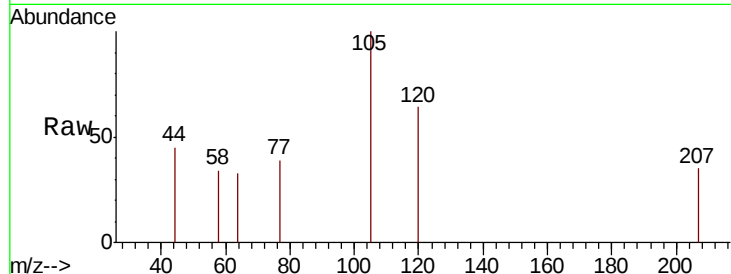




#84
 1,2,4-Trimethylbenzene
 Concen: 11.751 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

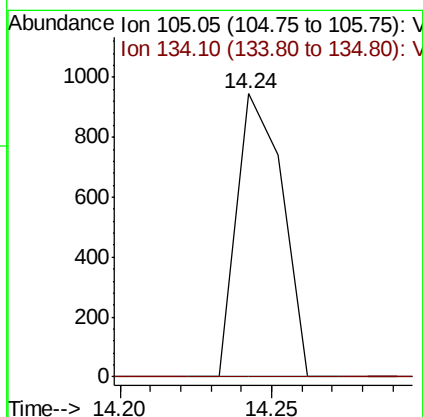
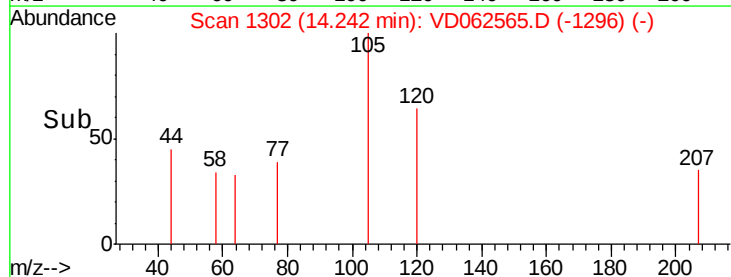
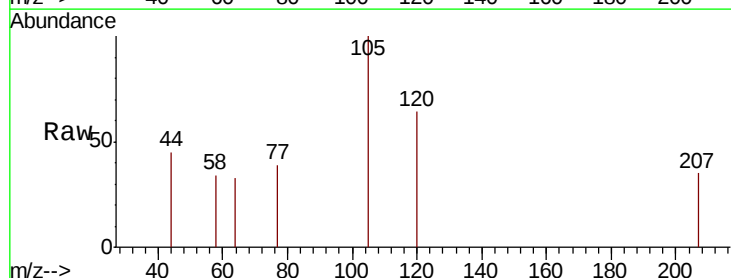
Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

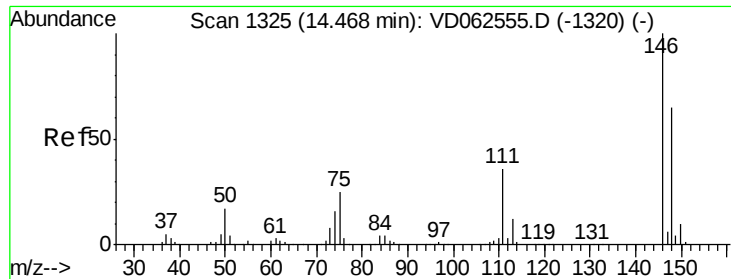
Tot Ion:105 Resp: 997
 Ion Ratio Lower Upper
 105 100
 120 64.1 19.6 58.8#



#85
 sec-Butylbenzene
 Concen: 10.130 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.14 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion:105 Resp: 997
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.7 26.1#

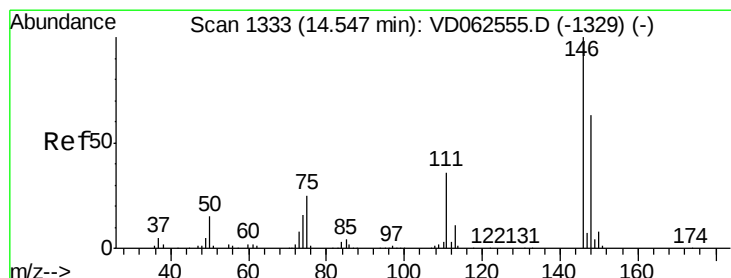
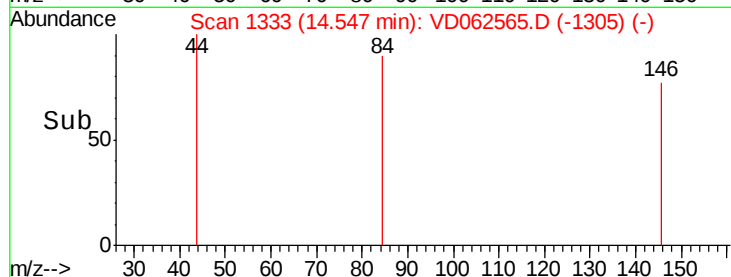
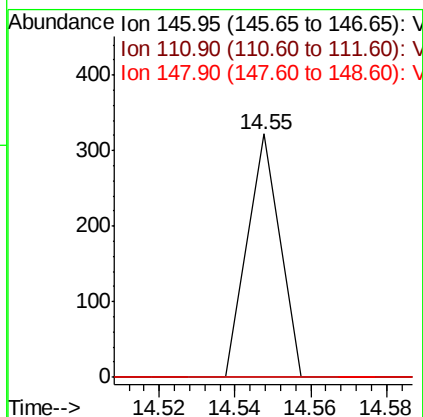
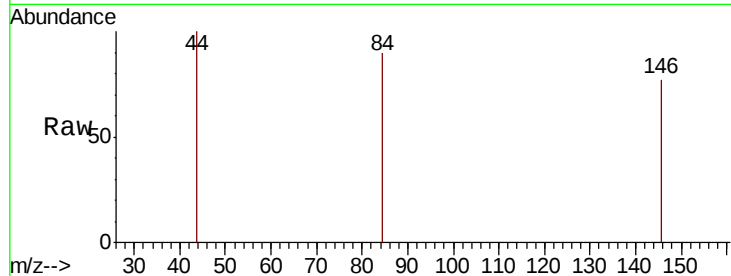




#87
 1,3-Dichlorobenzene
 Concen: 4.103 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.08 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

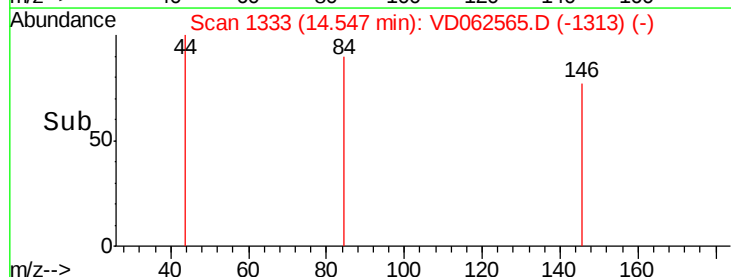
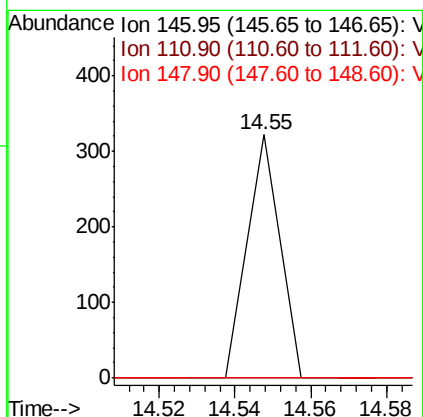
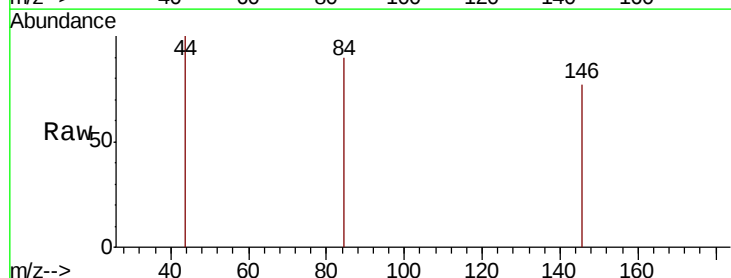
Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

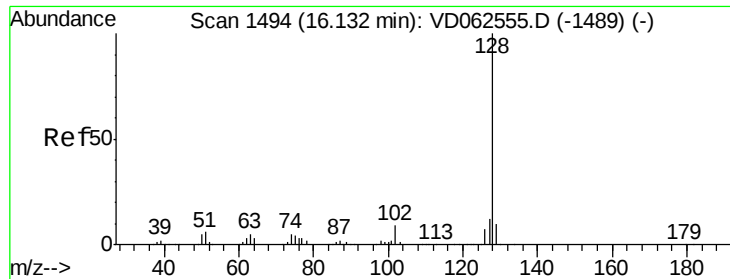
Tot Ion:146 Resp: 190
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.1 54.4#
 148 0.0 32.3 96.9#



#88
 1,4-Dichlorobenzene
 Concen: 4.094 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.00 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion:146 Resp: 190
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.2 54.6#
 148 0.0 31.6 94.8#





#95

Naphthalene

Concen: 4.243 ug/l

RT: 16.00 min Scan# 1481

Delta R.T. -0.13 min

Lab File: VD062565.D

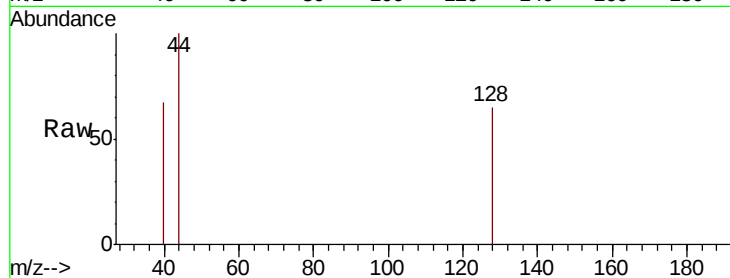
Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE



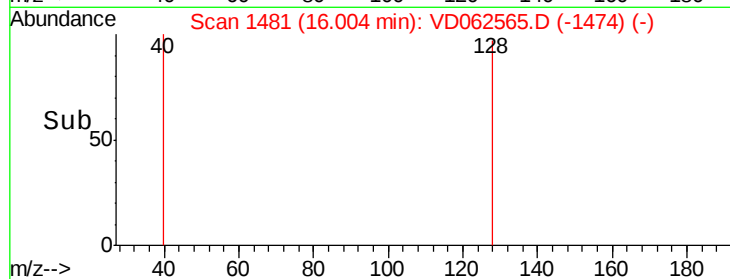
Tot Ion:128 Resp: 180

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.2 12.2#



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

