

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051519\
 Data File : VD062404.D
 Acq On : 15 May 2019 22:40
 Operator : FY/SY
 Sample : K2761-04RE
 Misc : 5.72g/5mL/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 16 04:00:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	420107	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	603665	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	366597	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	95616	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	202215	51.80	ug/l	0.03
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	6.91	113	4574	0.91	ug/l	0.02
Spiked Amount			Recovery	=	1.82%	
50) Toluene-d8	10.41	98	343247	28.42	ug/l	0.00
Spiked Amount			Recovery	=	56.84%	
62) 4-Bromofluorobenzene	13.56	95	111579	23.01	ug/l	0.00
Spiked Amount			Recovery	=	46.02%	

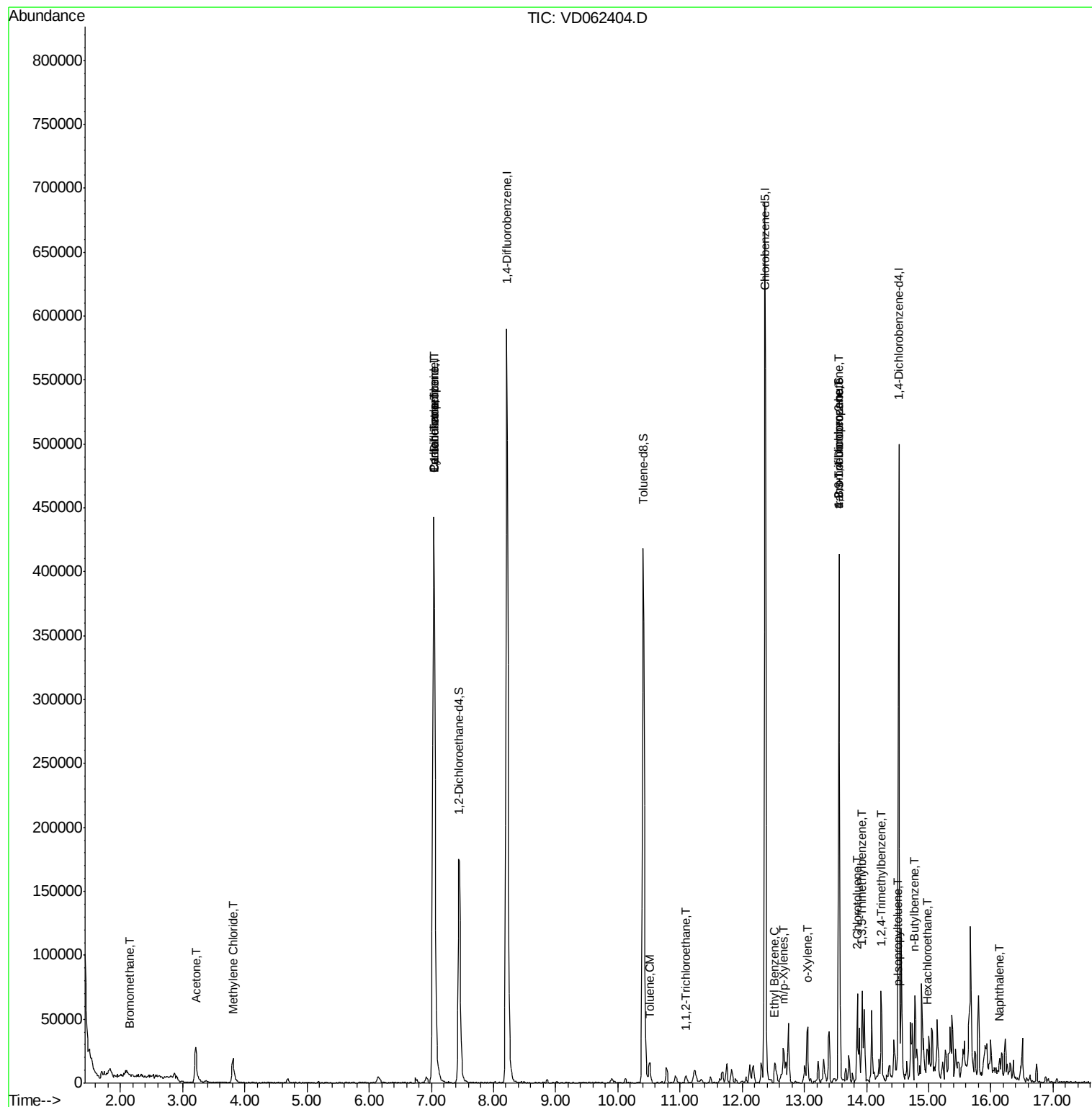
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	1324	1.980	ug/l #	12
16) Acetone	3.21	43	50403	61.562	ug/l #	76
20) Methylene Chloride	3.81	84	12481	3.651	ug/l	89
31) Cyclohexane	7.04	56	8980	2.192	ug/l #	26
36) 1,1-Dichloropropene	7.04	75	35910	7.255	ug/l #	47
38) Carbon Tetrachloride	7.04	117	42979	6.274	ug/l #	17
52) Toluene	10.51	92	8529	1.173	ug/l	88
55) 1,1,2-Trichloroethane	11.10	97	3567	1.386	ug/l #	16
67) Ethyl Benzene	12.52	91	12537	1.097	ug/l #	81
68) m/p-Xylenes	12.67	106	7077	1.702	ug/l	84
69) o-Xylene	13.05	106	9940	2.571	ug/l	84
76) 1,2,3-Trichloropropane	13.56	75	38128	33.554	ug/l #	42
79) 2-Chlorotoluene	13.85	91	6725	1.717	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.94	105	34922	7.236	ug/l	79
81) trans-1,4-Dichloro-2-buten	13.56	75	50298	156.795	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	33236	6.862	ug/l	83
86) p-Isopropyltoluene	14.49	119	8881	1.671	ug/l	92
89) n-Butylbenzene	14.78	91	8860	1.858	ug/l #	1
90) Hexachloroethane	14.97	117	1824	1.262	ug/l #	20
95) Naphthalene	16.12	128	2693	1.098	ug/l #	90

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

Instrument :

MSVOA_D

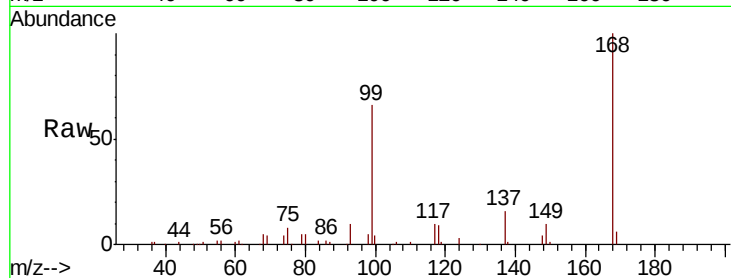
ClientSampleId :

Tot Ion:168 Resp: 420107

Ion Ratio Lower Upper

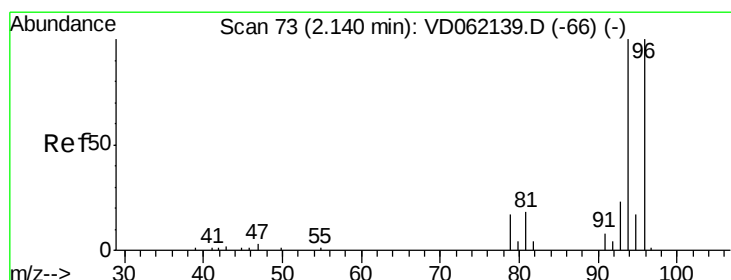
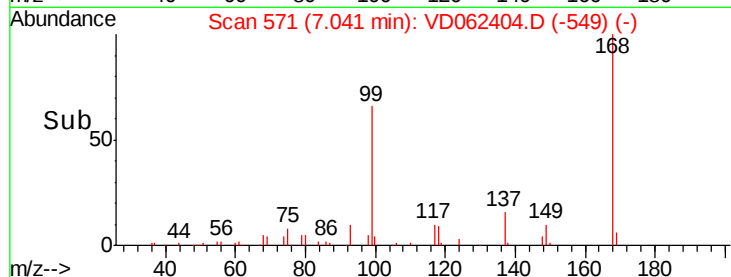
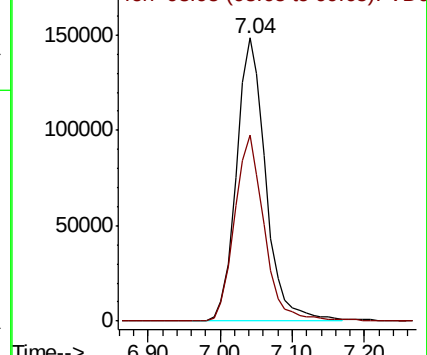
168 100

99 65.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.980 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

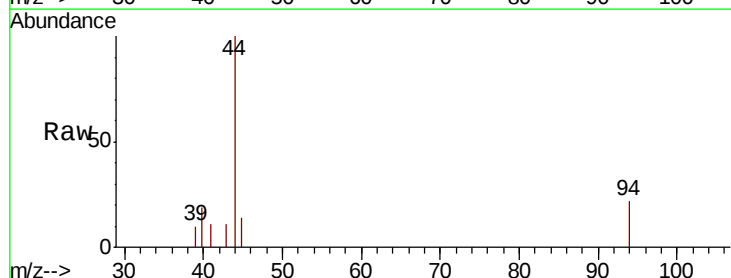
Tgt Ion: 94 Resp: 1324

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

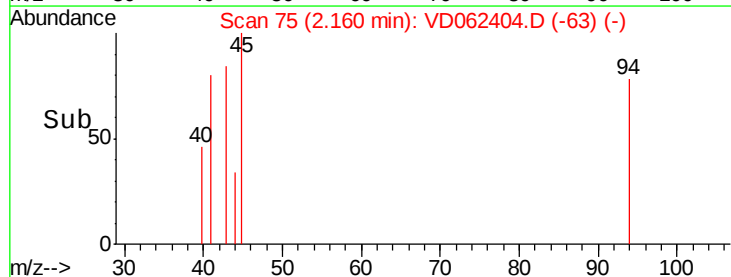
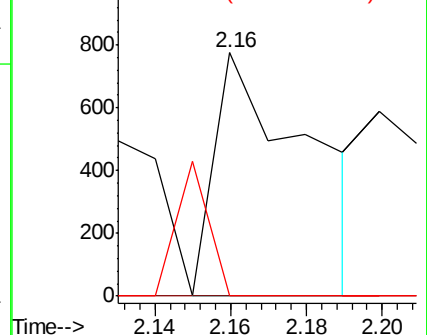
93 0.0 18.5 27.7#

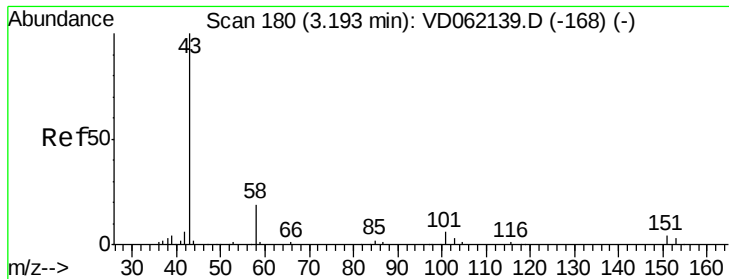


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 61.562 ug/l

RT: 3.21 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

Instrument :

MSVOA_D

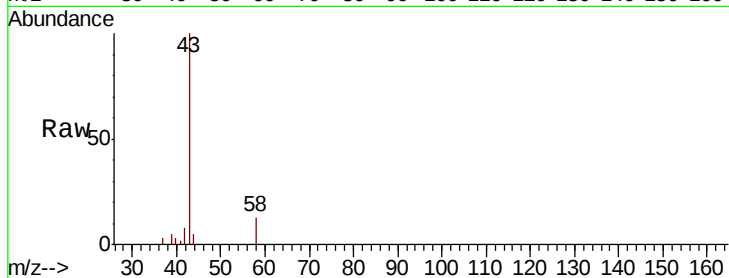
ClientSampleId :

Tot Ion: 43 Resp: 50403

Ion Ratio Lower Upper

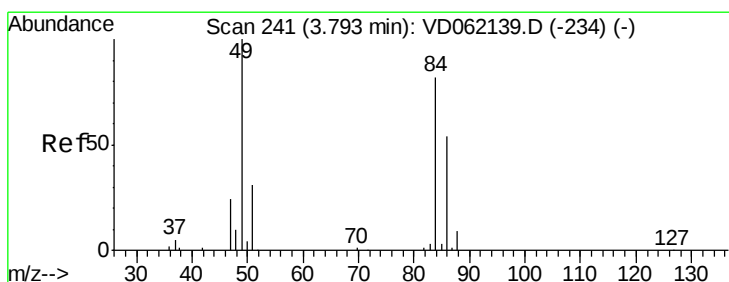
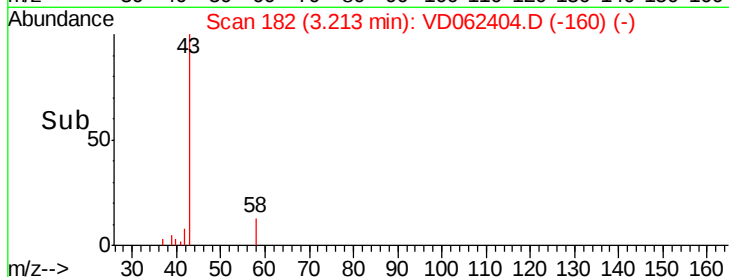
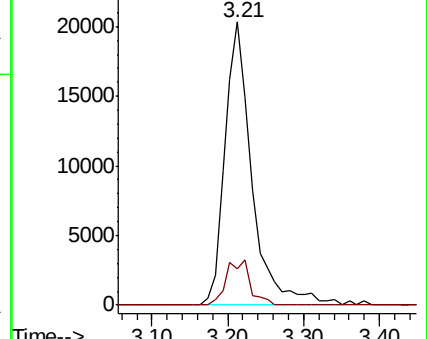
43 100

58 12.9 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 3.651 ug/l

RT: 3.81 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

Tgt Ion: 84 Resp: 12481

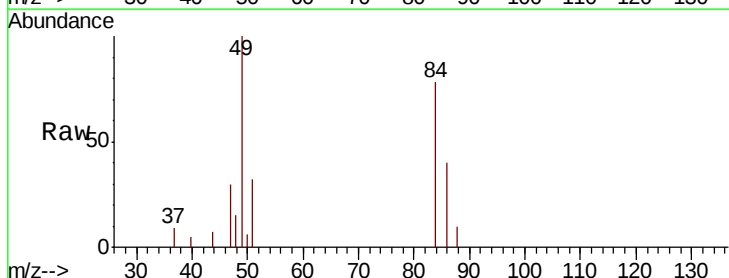
Ion Ratio Lower Upper

84 100

49 128.8 94.0 141.0

51 41.0 29.0 43.4

86 51.1 49.8 74.6

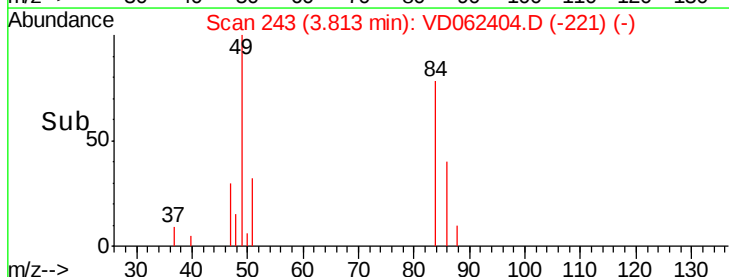
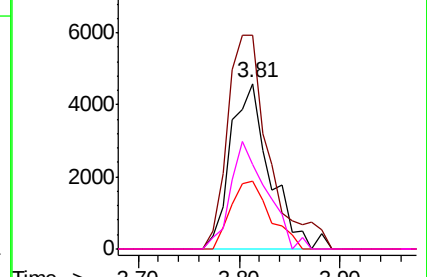


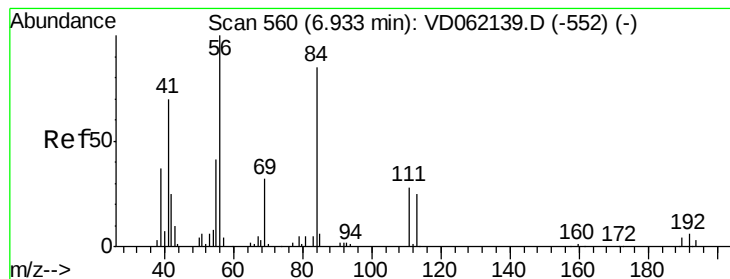
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 2.192 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

Instrument :

MSVOA_D

ClientSampleId :

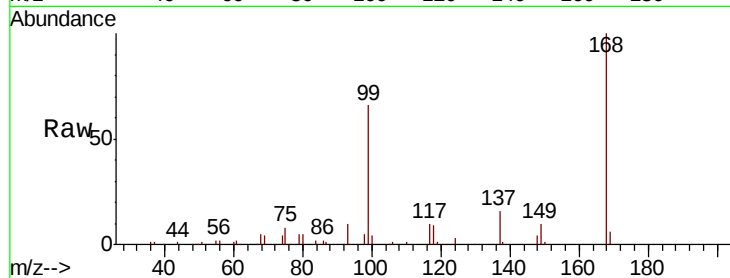
Tot Ion: 56 Resp: 8980

Ion Ratio Lower Upper

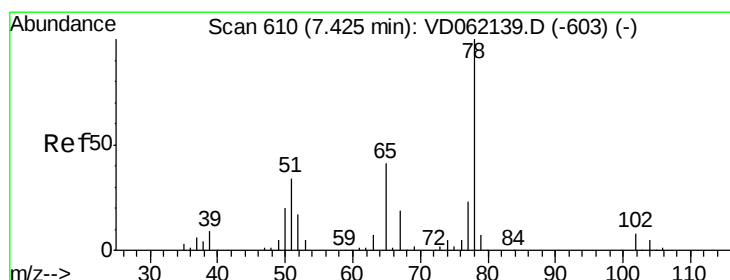
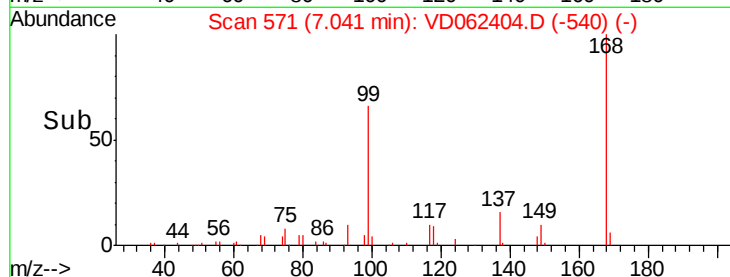
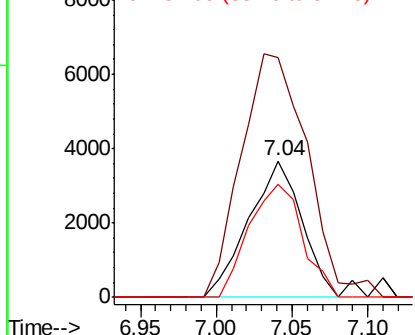
56 100

69 175.9 25.8 38.6#

84 82.6 72.2 108.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 51.795 ug/l

RT: 7.45 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062404.D

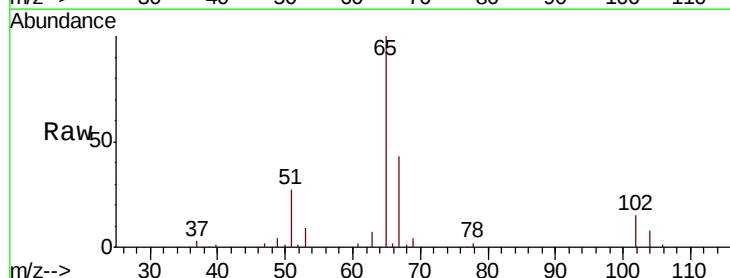
Acq: 15 May 2019 22:40

Tgt Ion: 65 Resp: 202215

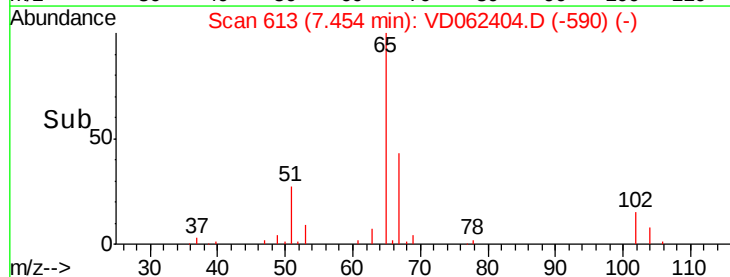
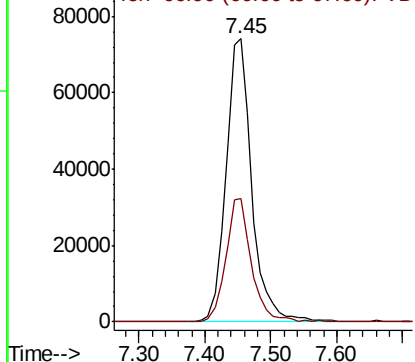
Ion Ratio Lower Upper

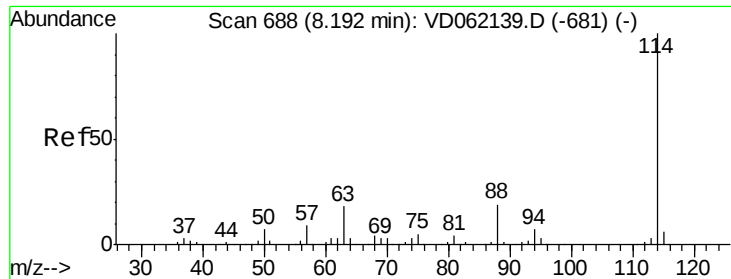
65 100

67 43.4 0.0 98.0



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

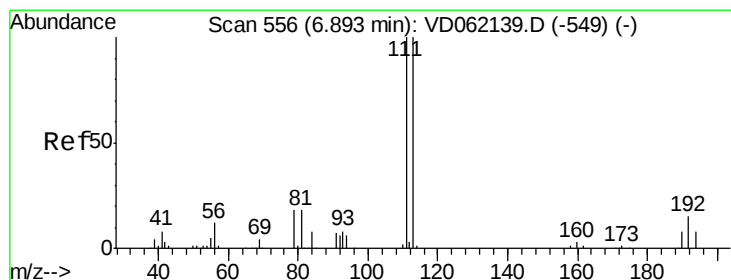
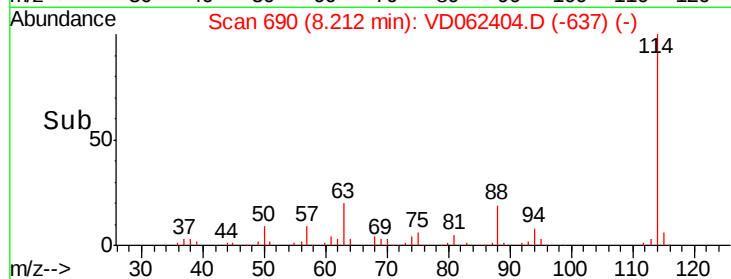
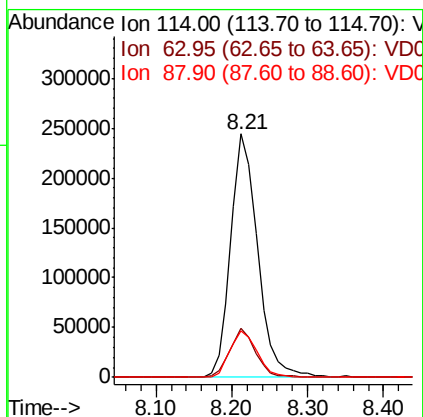
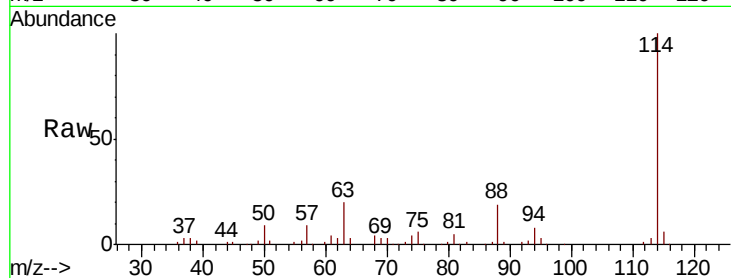




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

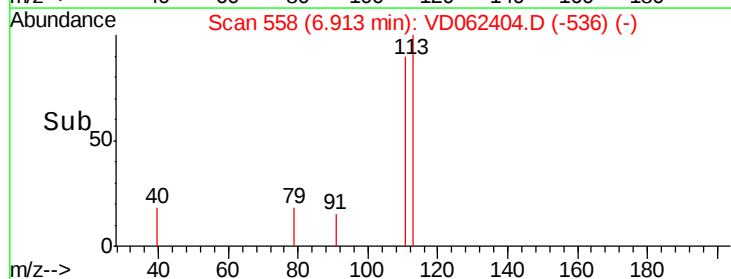
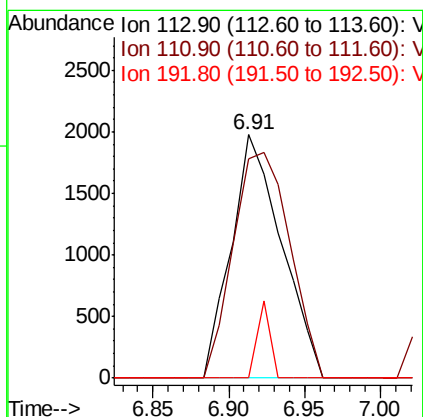
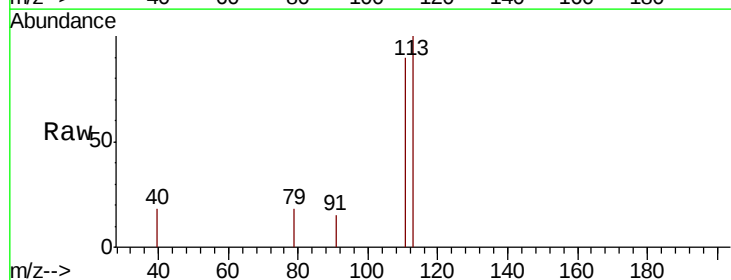
Instrument :
 MSVOA_D
 ClientSampleId :

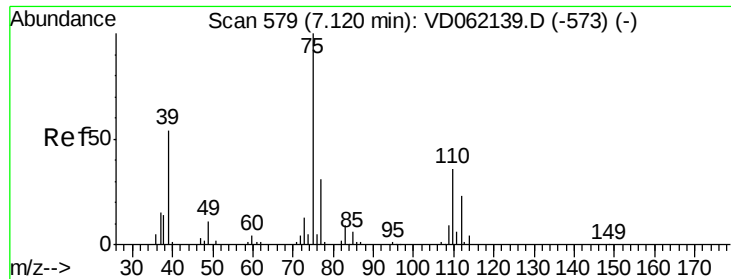
Tot Ion:114 Resp: 603665
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 32.4
 88 19.3 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 0.913 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

Tgt Ion:113 Resp: 4574
 Ion Ratio Lower Upper
 113 100
 111 90.3 78.5 117.7
 192 0.0 13.0 19.4#

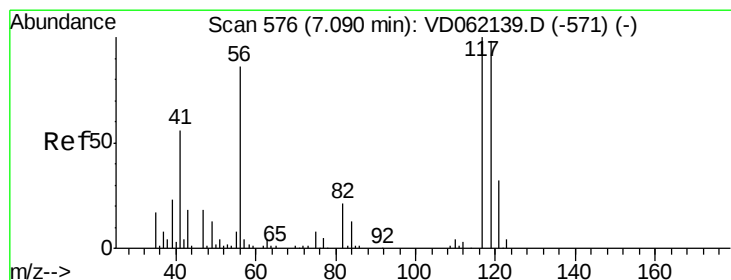
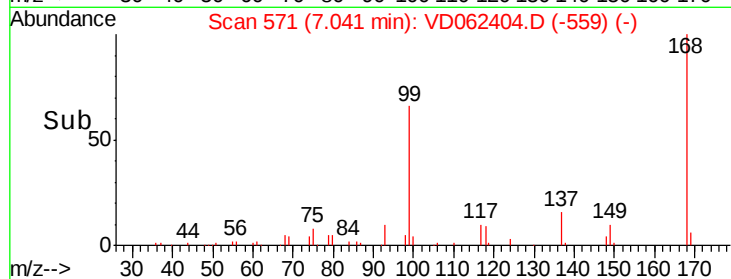
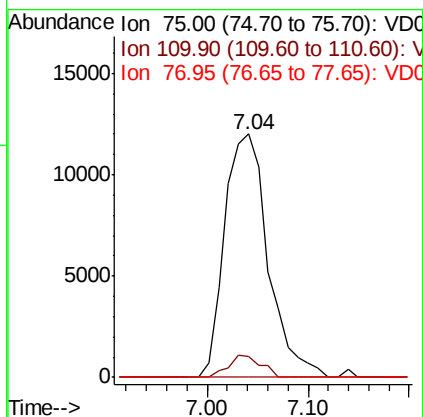
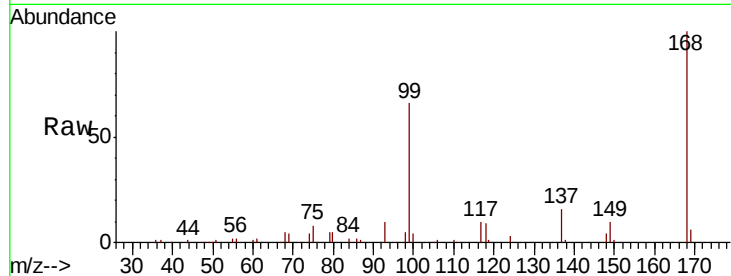




#36
 1,1-Dichloropropene
 Concen: 7.255 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

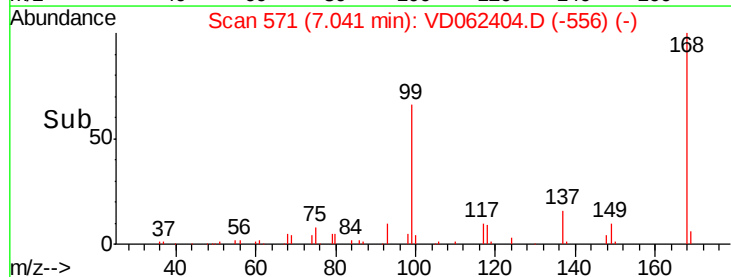
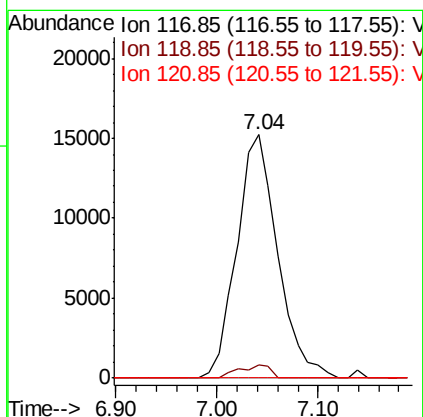
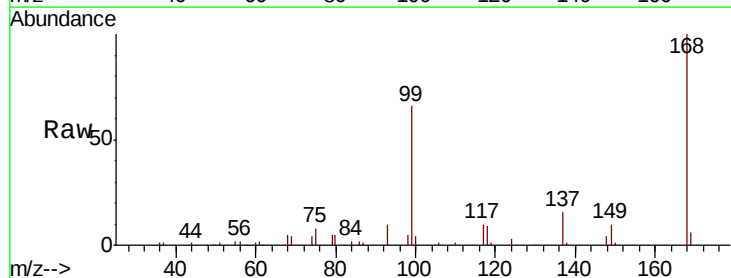
Instrument :
 MSVOA_D
 ClientSampleId :

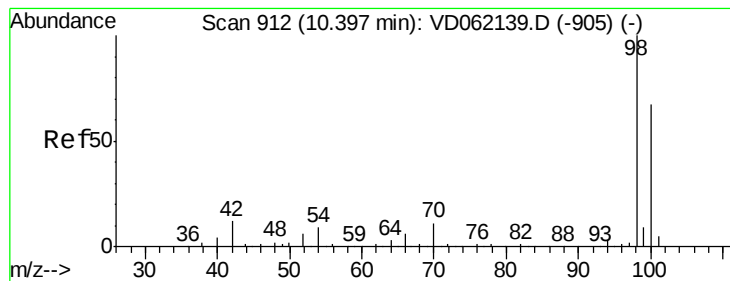
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.1	57.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 6.274 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.05 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	75.8	113.8#
121	0.0	25.9	38.9#





#50

Toluene-d8

Concen: 28.423 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

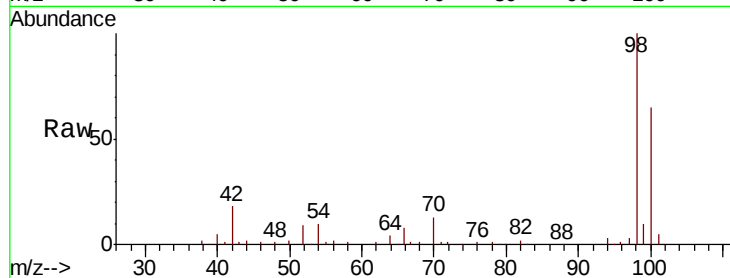
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 343247

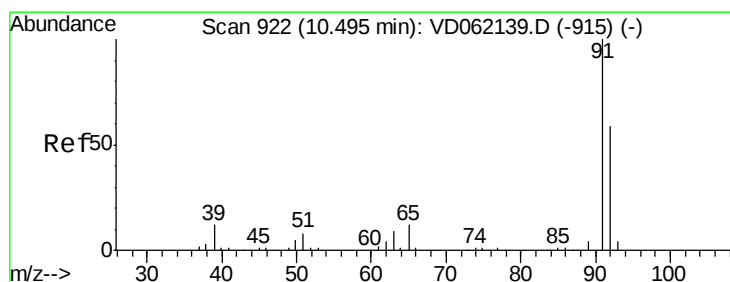
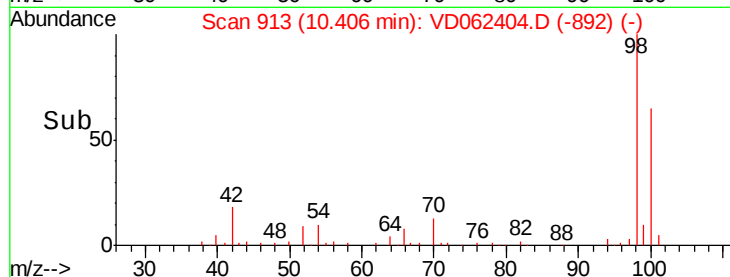
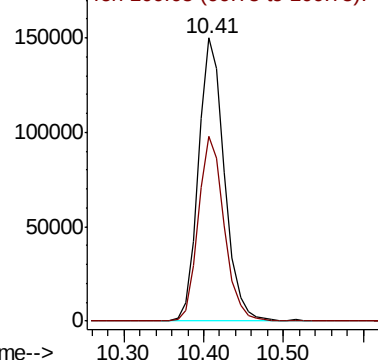
Ion Ratio Lower Upper

98 100

100 65.4 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1.173 ug/l

RT: 10.51 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD062404.D

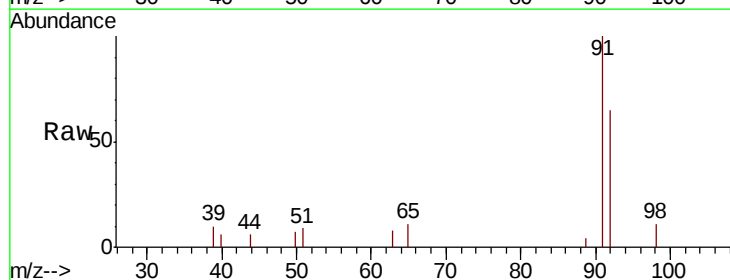
Acq: 15 May 2019 22:40

Tgt Ion: 92 Resp: 8529

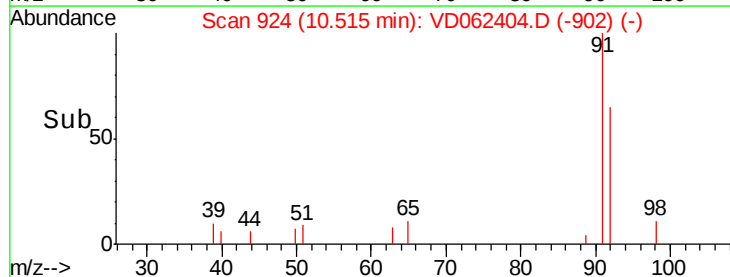
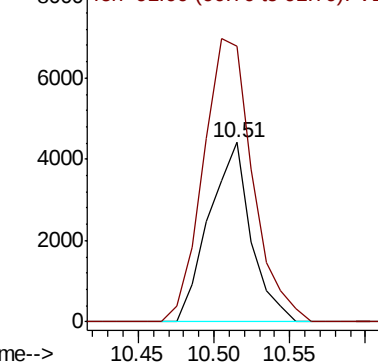
Ion Ratio Lower Upper

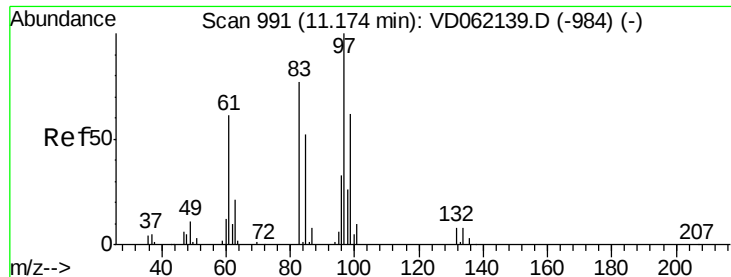
92 100

91 154.0 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

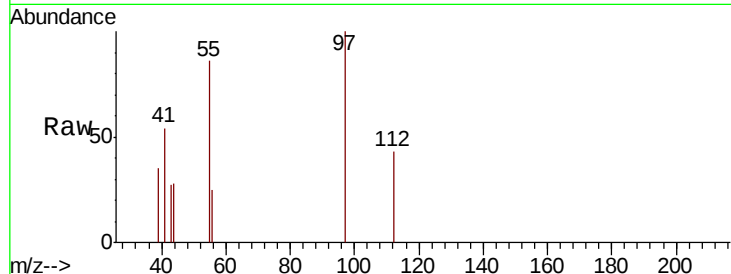




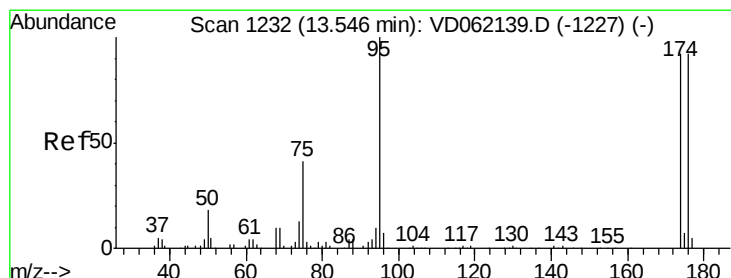
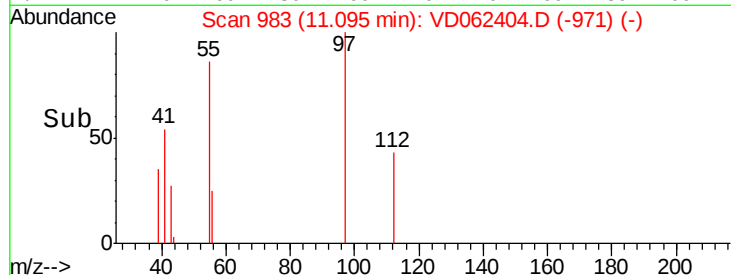
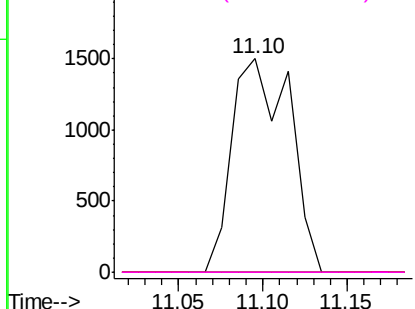
#55
 1,1,2-Trichloroethane
 Concen: 1.386 ug/l
 RT: 11.10 min Scan# 983
 Delta R.T. -0.08 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 97 Resp: 3567
 Ion Ratio Lower Upper
 97 100
 83 0.0 65.7 98.5#
 85 0.0 45.6 68.4#
 99 0.0 48.4 72.6#

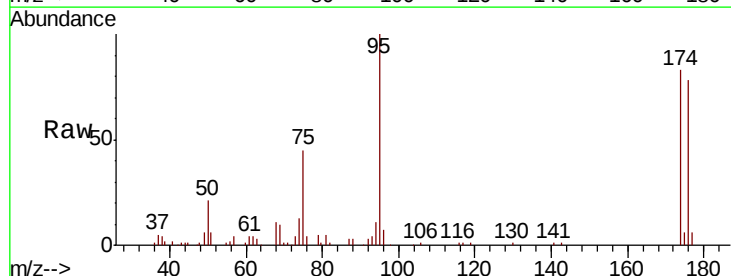


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

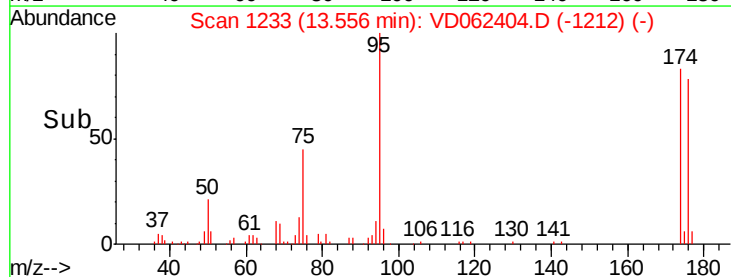
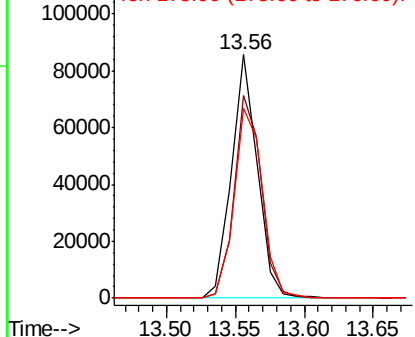


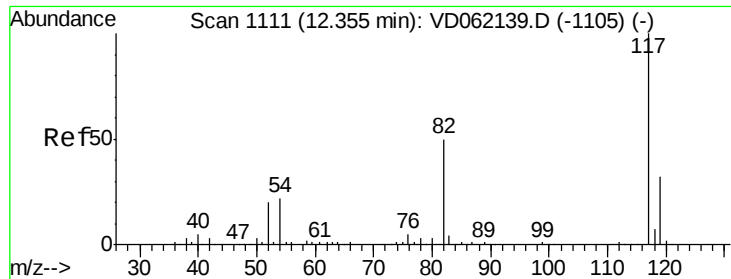
#62
 4-Bromofluorobenzene
 Concen: 23.009 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

Tgt Ion: 95 Resp: 111579
 Ion Ratio Lower Upper
 95 100
 174 83.2 0.0 181.8
 176 78.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
 Ion 173.90 (173.60 to 174.60): VDC
 Ion 175.90 (175.60 to 176.60): VDC

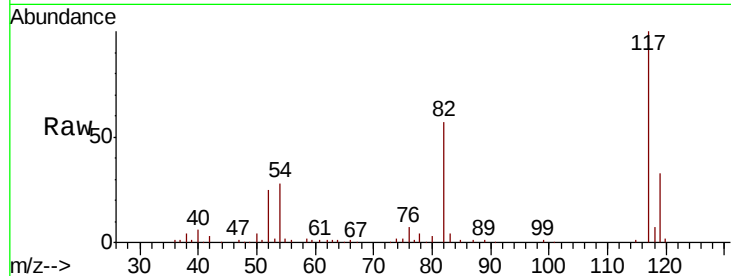




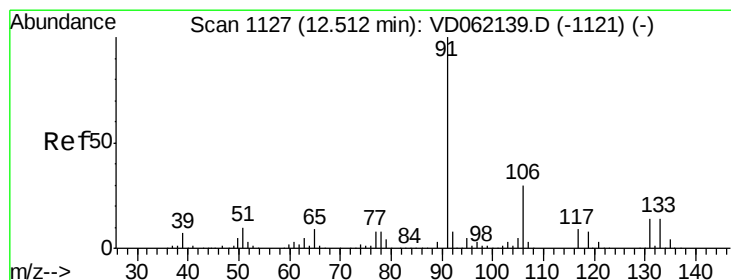
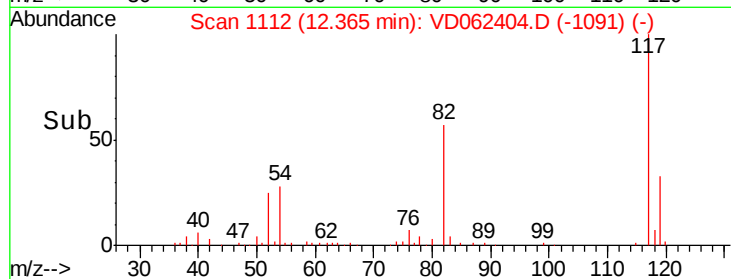
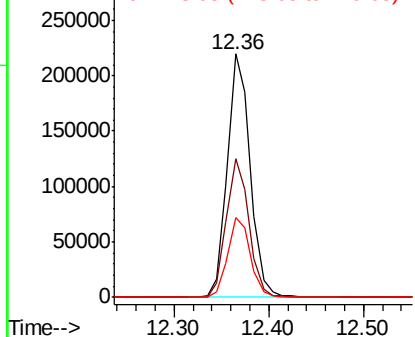
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 366597
Ion Ratio Lower Upper
117 100
82 56.8 36.2 54.2#
119 33.0 26.2 39.4

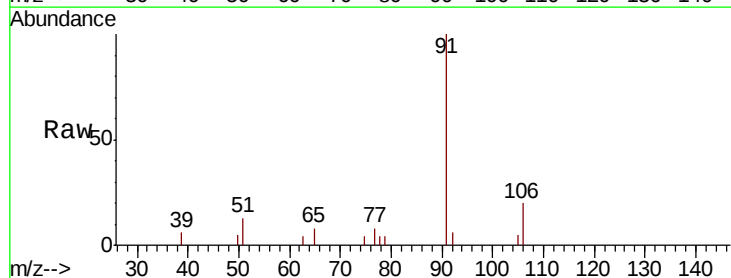


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

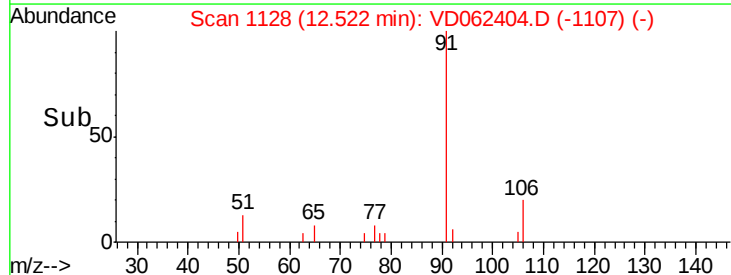
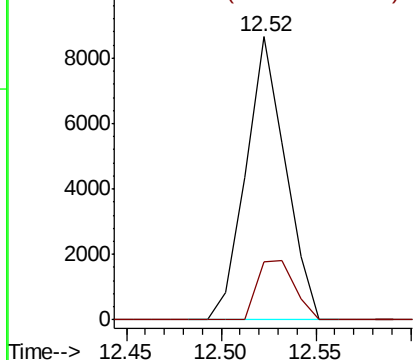


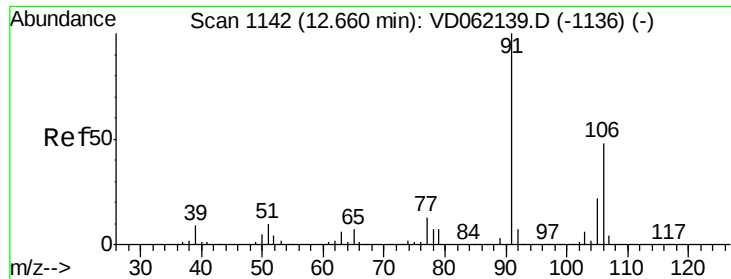
#67
Ethyl Benzene
Concen: 1.097 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Tgt Ion: 91 Resp: 12537
Ion Ratio Lower Upper
91 100
106 20.5 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

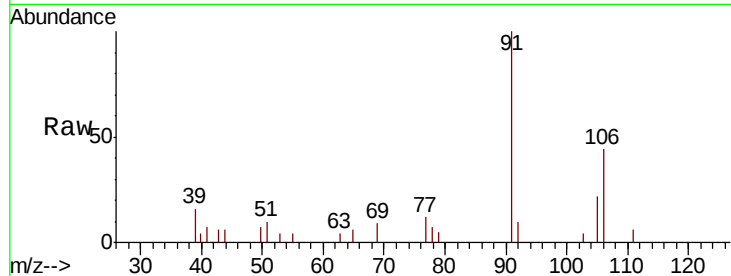




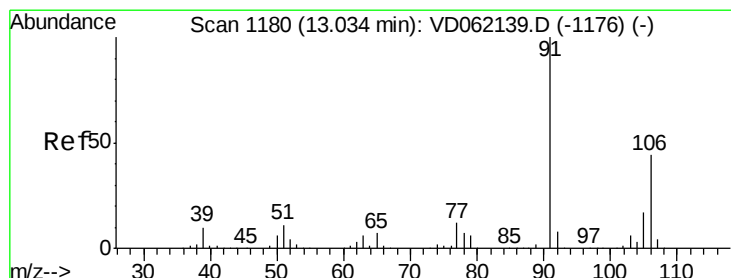
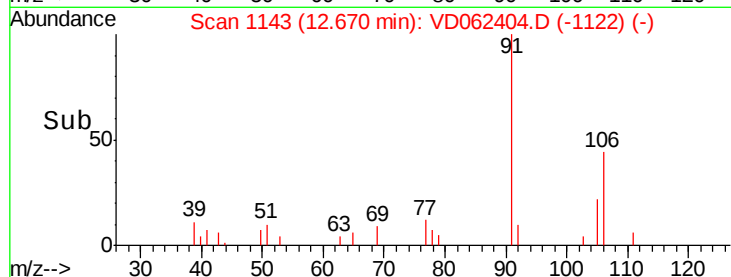
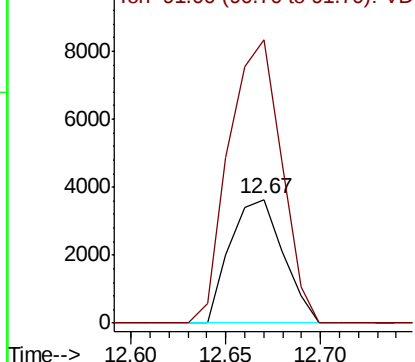
#68
m/p-Xylenes
Concen: 1.702 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 7077
Ion Ratio Lower Upper
106 100
91 229.1 164.0 246.0

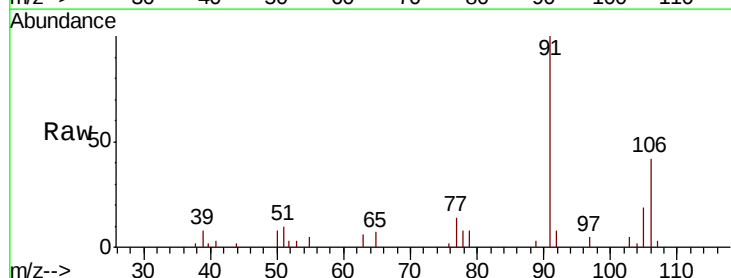


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

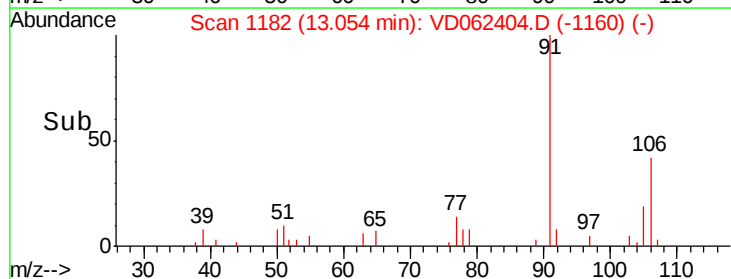
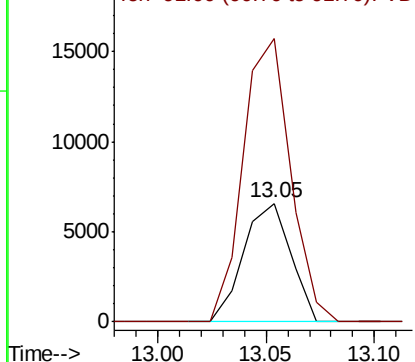


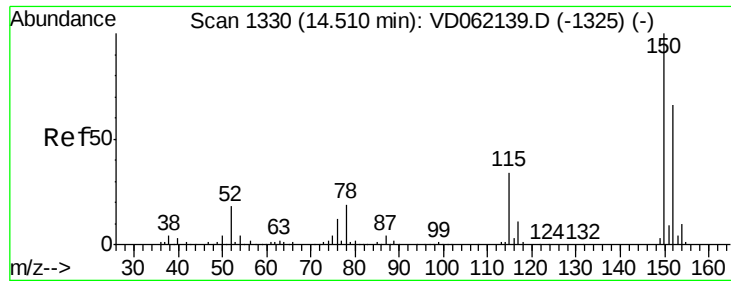
#69
o-Xylene
Concen: 2.571 ug/l
RT: 13.05 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Tgt Ion:106 Resp: 9940
Ion Ratio Lower Upper
106 100
91 239.0 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062404.D

Acq: 15 May 2019 22:40

Instrument :

MSVOA_D

ClientSampleId :

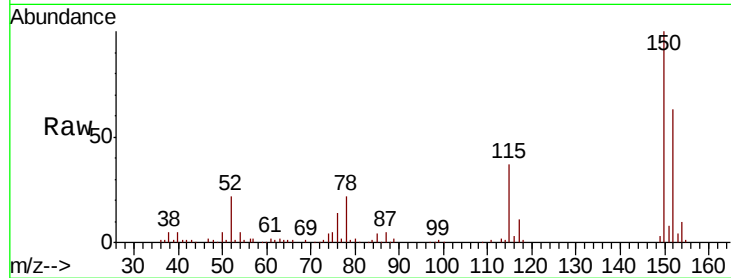
Tot Ion:152 Resp: 95616

Ion Ratio Lower Upper

152 100

115 57.6 30.9 92.7

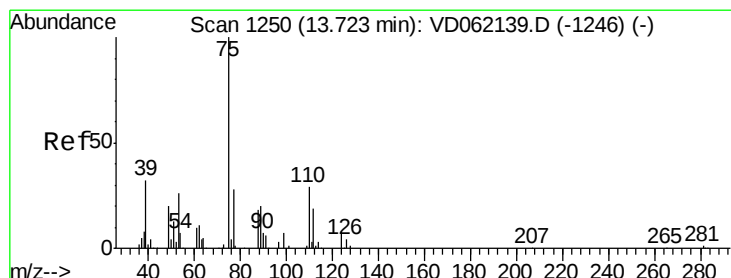
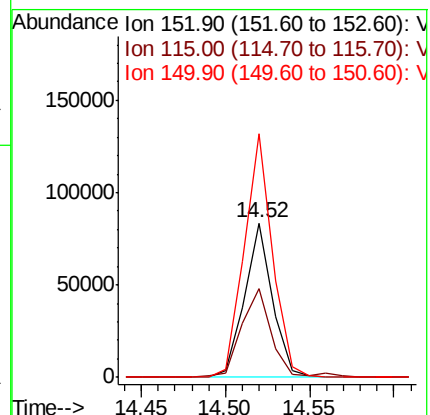
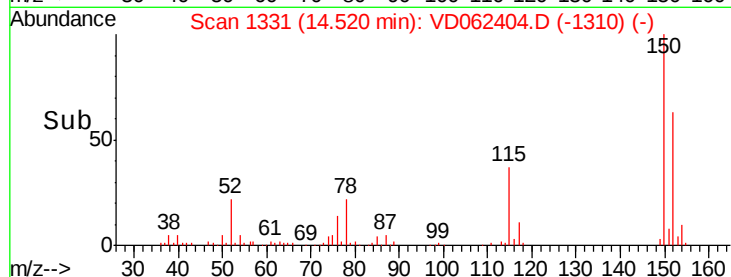
150 157.6 0.0 314.8



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



#76

1,2,3-Trichloropropane

Concen: 33.554 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062404.D

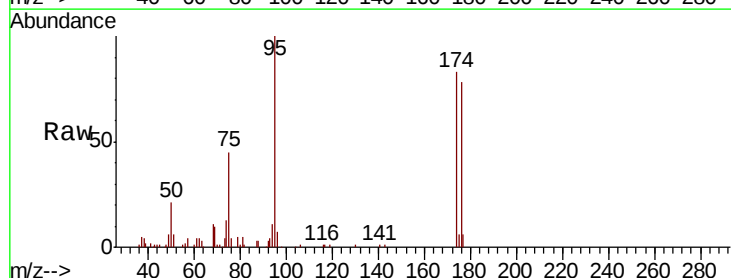
Acq: 15 May 2019 22:40

Tgt Ion: 75 Resp: 38128

Ion Ratio Lower Upper

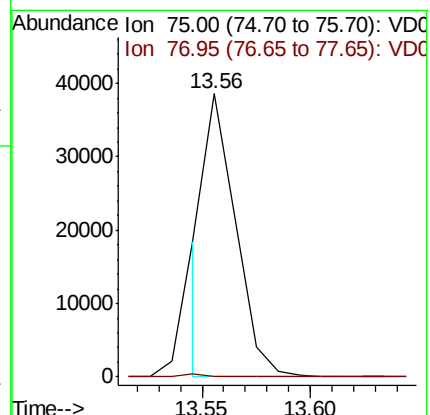
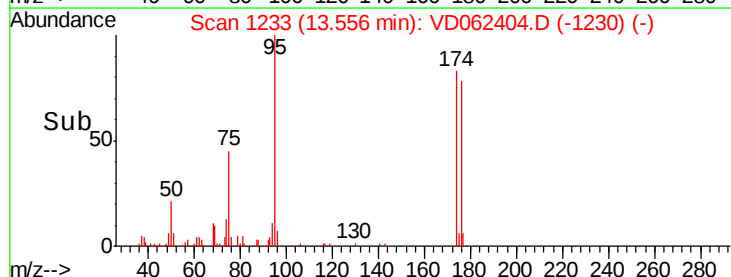
75 100

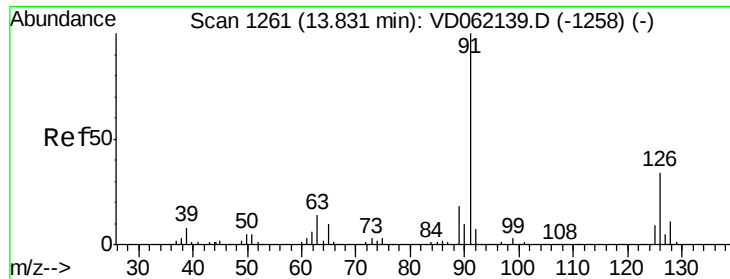
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

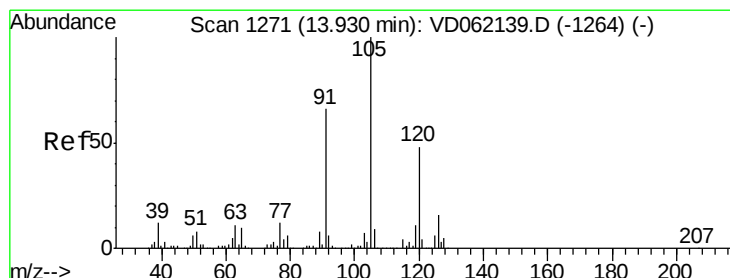
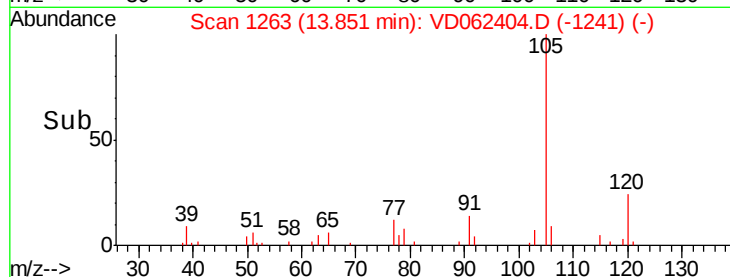
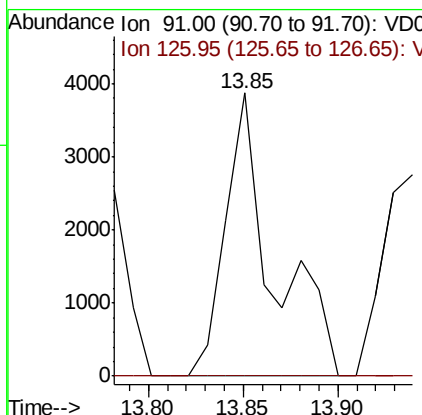
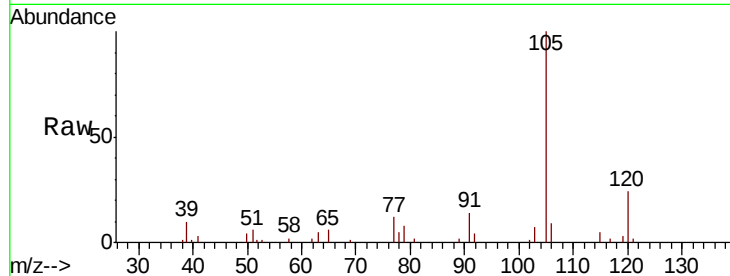




#79
 2-Chlorotoluene
 Concen: 1.717 ug/l
 RT: 13.85 min Scan# 1263
 Delta R.T. 0.02 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

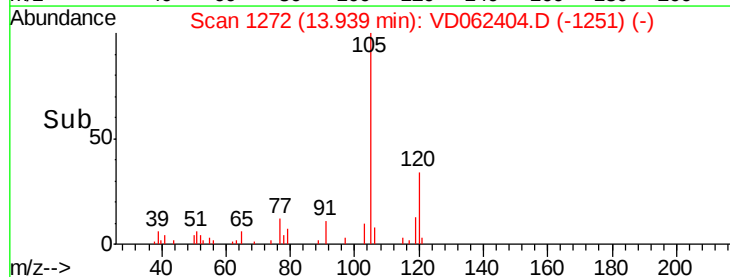
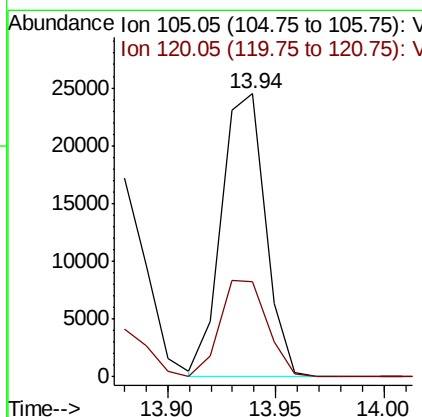
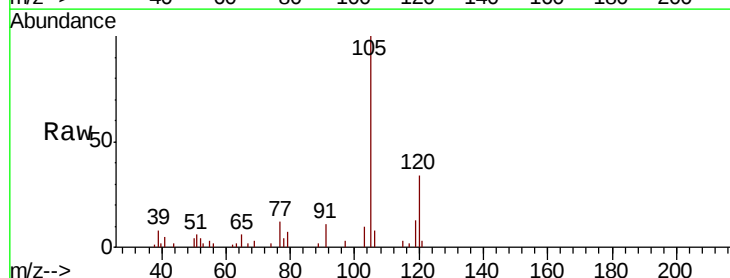
Instrument :
 MSVOA_D
 ClientSampleId :

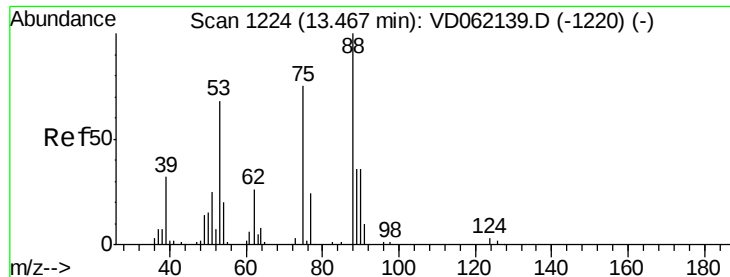
Tot Ion: 91 Resp: 6725
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.6 55.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 7.236 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VD062404.D
 Acq: 15 May 2019 22:40

Tgt Ion:105 Resp: 34922
 Ion Ratio Lower Upper
 105 100
 120 33.5 24.0 72.0

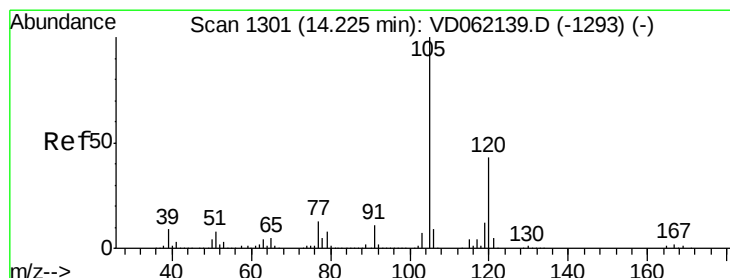
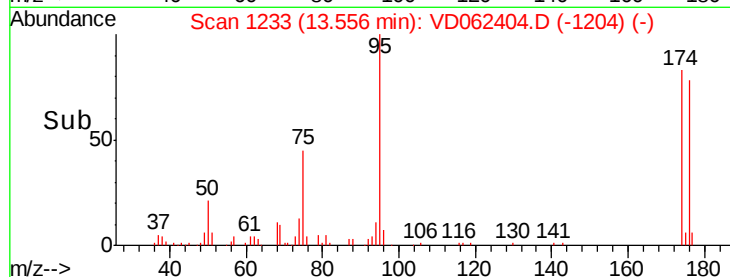
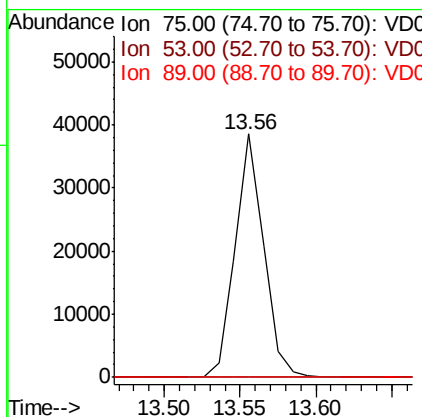
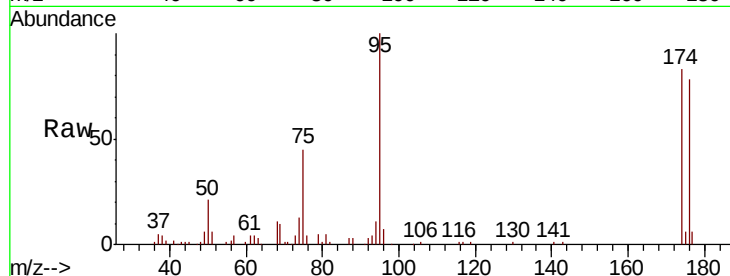




#81
trans-1,4-Dichloro-2-butene
Concen: 156.795 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.09 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

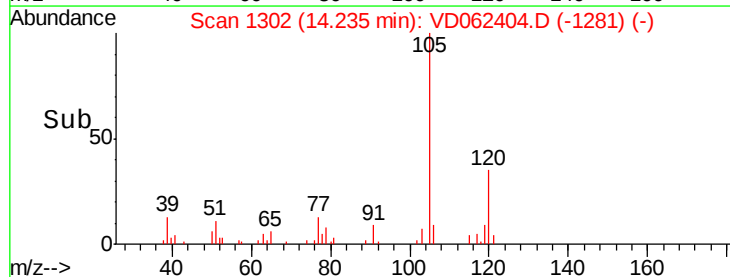
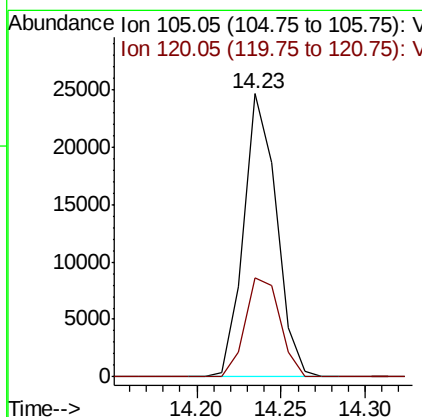
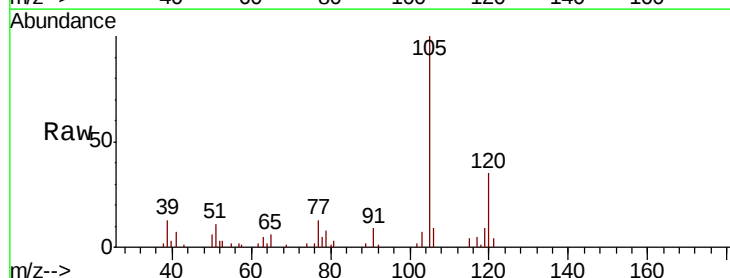
Instrument :
MSVOA_D
ClientSampleId :

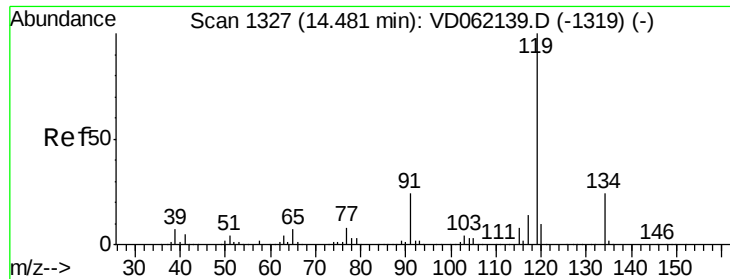
Tot Ion: 75 Resp: 50298
Ion Ratio Lower Upper
75 100
53 0.0 65.8 98.8#
89 0.0 35.0 52.6#



#84
1,2,4-Trimethylbenzene
Concen: 6.862 ug/l
RT: 14.23 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Tgt Ion:105 Resp: 33236
Ion Ratio Lower Upper
105 100
120 35.2 23.1 69.2

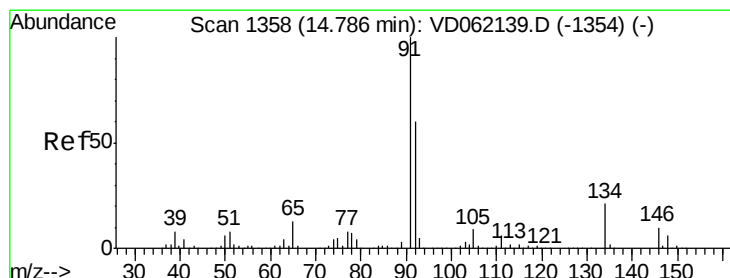
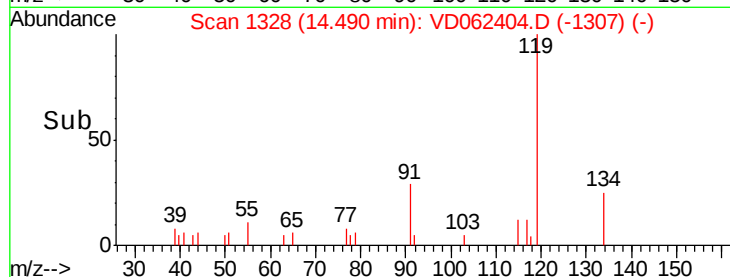
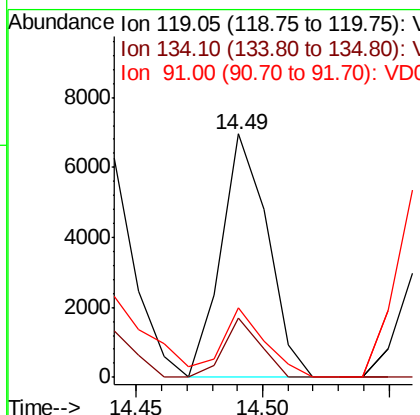
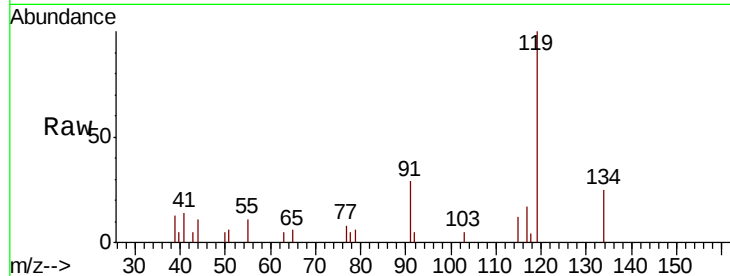




#86
p-Isopropyltoluene
Concen: 1.671 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

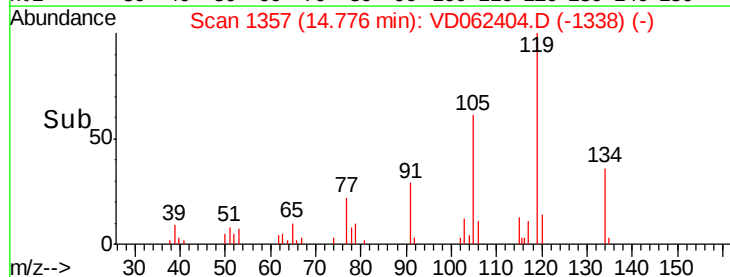
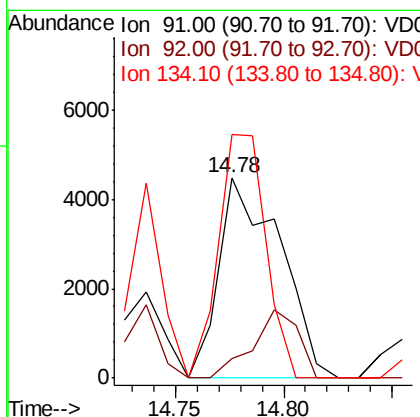
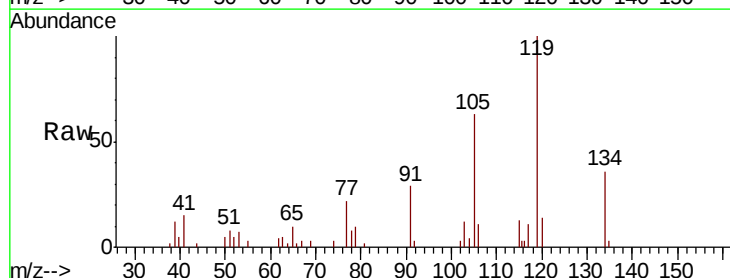
Instrument :
MSVOA_D
ClientSampled :

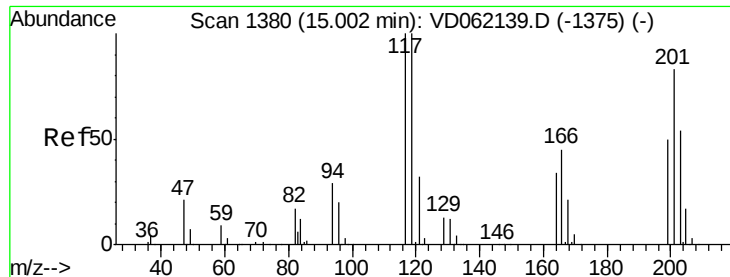
Tot Ion:119 Resp: 8881
Ion Ratio Lower Upper
119 100
134 24.6 12.8 38.3
91 28.5 10.7 32.1



#89
n-Butylbenzene
Concen: 1.858 ug/l
RT: 14.78 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Tgt Ion: 91 Resp: 8860
Ion Ratio Lower Upper
91 100
92 9.7 30.3 91.0#
134 121.5 14.5 43.6#

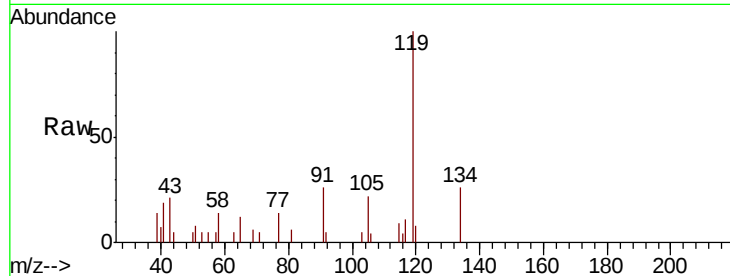




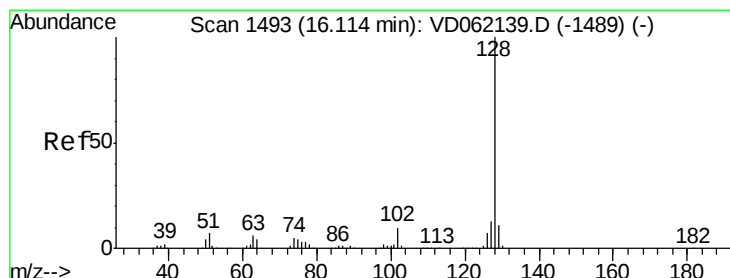
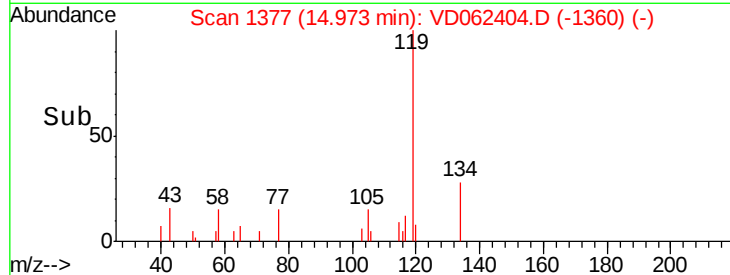
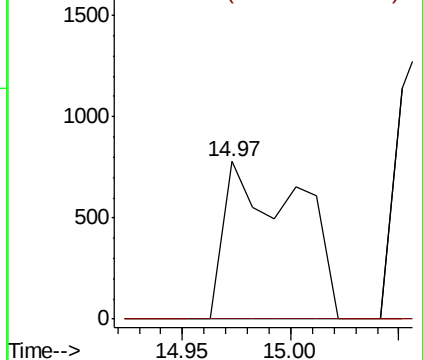
#90
Hexachloroethane
Concen: 1.262 ug/l
RT: 14.97 min Scan# 1377
Delta R.T. -0.03 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 1824
Ion Ratio Lower Upper
117 100
201 0.0 30.2 90.6#

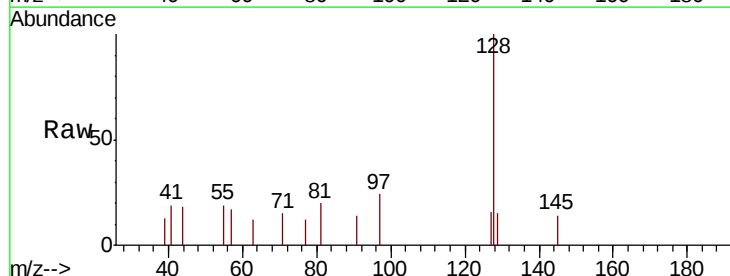


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V



#95
Naphthalene
Concen: 1.098 ug/l
RT: 16.12 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062404.D
Acq: 15 May 2019 22:40

Tgt Ion:128 Resp: 2693
Ion Ratio Lower Upper
128 100
127 16.3 9.8 14.8#
129 15.0 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

