

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060826.D
 Acq On : 1 Feb 2019 18:29
 Operator : VA/AP
 Sample : K1360-01RE
 Misc : 3.83g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200053RE

Quant Time: Feb 02 00:26:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.77	168	115461	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.95	114	153377	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.14	117	139710	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.30	152	65961	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.19	65	92743	52.39	ug/l	-0.03
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	6.66	113	58616	39.85	ug/l	-0.02
Spiked Amount			Recovery	=	79.70%	
50) Toluene-d8	10.16	98	116426	33.89	ug/l	-0.03
Spiked Amount			Recovery	=	67.78%	
62) 4-Bromofluorobenzene	13.34	95	68593	39.73	ug/l	-0.02
Spiked Amount			Recovery	=	79.46%	

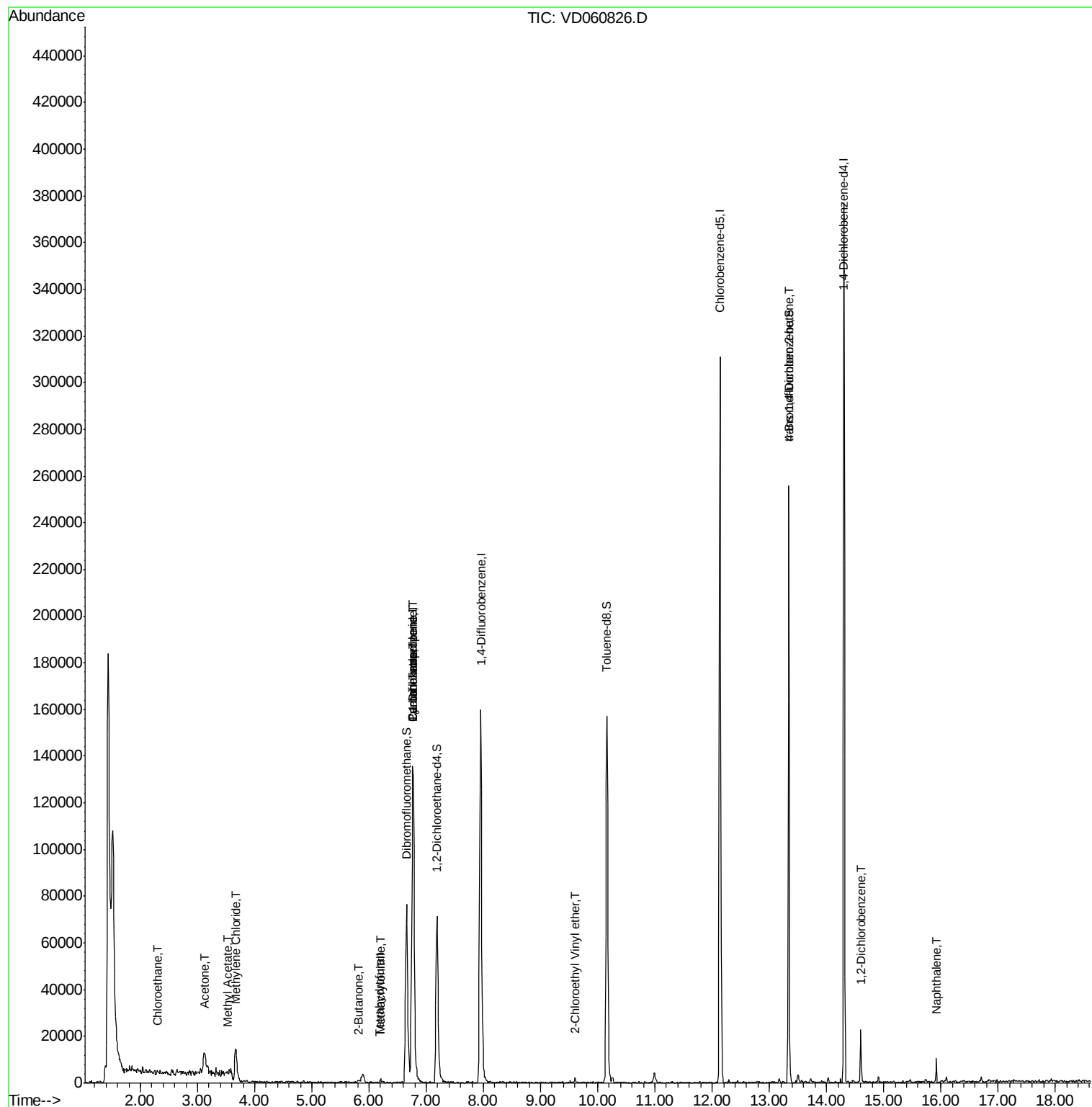
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.28	64	184	3.077	ug/l #	37
13) Acrolein	2.94	56	198	Below Cal	#	9
16) Acetone	3.13	43	21934	85.792	ug/l	92
18) Methyl Acetate	3.52	43	1703	3.360	ug/l #	63
20) Methylene Chloride	3.66	84	7557	2.267	ug/l #	75
25) 2-Butanone	5.81	43	1446	4.419	ug/l #	59
29) Tetrahydrofuran	6.18	42	726	4.620	ug/l #	33
31) Cyclohexane	6.77	56	3049	1.877	ug/l #	1
36) 1,1-Dichloropropene	6.76	75	11443	6.249	ug/l #	58
38) Carbon Tetrachloride	6.76	117	14055	6.120	ug/l #	19
41) Methacrylonitrile	6.20	41	740	1.425	ug/l #	38
58) 2-Chloroethyl Vinyl ether	9.60	63	1377	2.772	ug/l #	50
81) trans-1,4-Dichloro-2-buten	13.34	75	34745	110.181	ug/l #	1
91) 1,2-Dichlorobenzene	14.60	146	7382	3.678	ug/l	89
95) Naphthalene	15.92	128	5848	2.190	ug/l	98

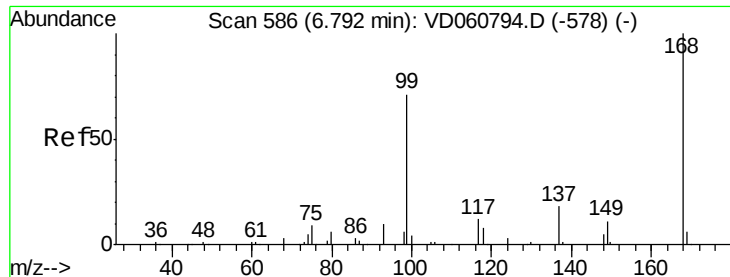
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 29 13:53:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.77 min Scan# 584

Delta R.T. -0.02 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

Instrument :

MSVOA_D

ClientSampleId :

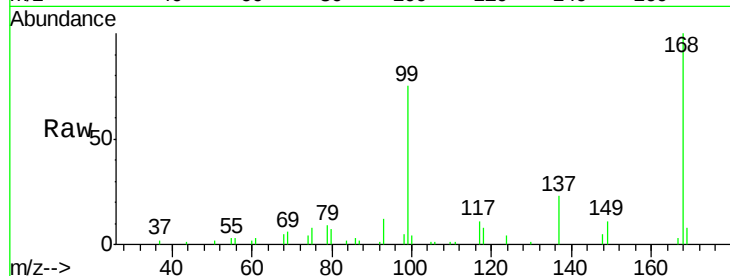
RBR-200053RE

Tot Ion:168 Resp: 115461

Ion Ratio Lower Upper

168 100

99 75.3 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.77

40000

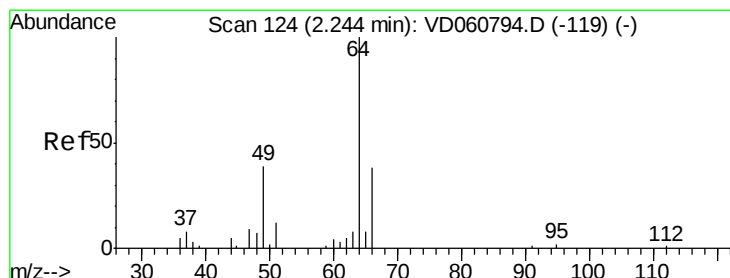
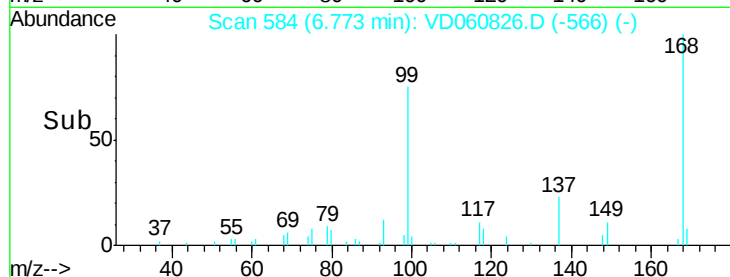
30000

20000

10000

0

Time-->



#6

Chloroethane

Concen: 3.077 ug/l

RT: 2.28 min Scan# 128

Delta R.T. 0.04 min

Lab File: VD060826.D

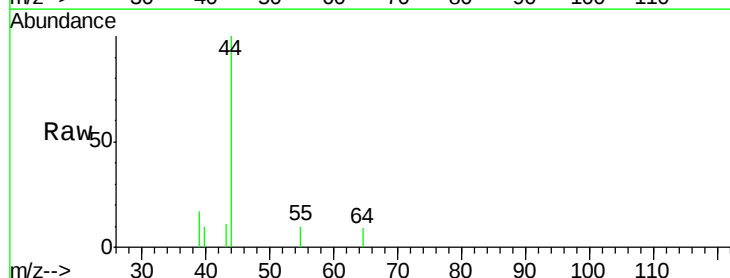
Acq: 1 Feb 2019 18:29

Tgt Ion: 64 Resp: 184

Ion Ratio Lower Upper

64 100

66 0.0 30.2 45.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.28

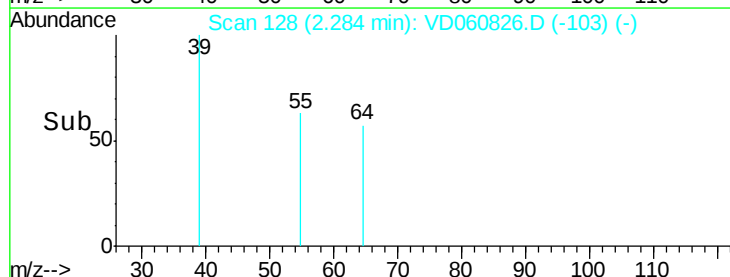
300

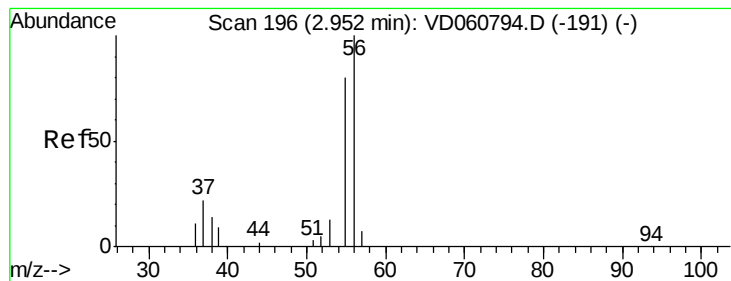
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.94 min Scan# 195

Delta R.T. -0.01 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

Instrument :

MSVOA_D

ClientSampleId :

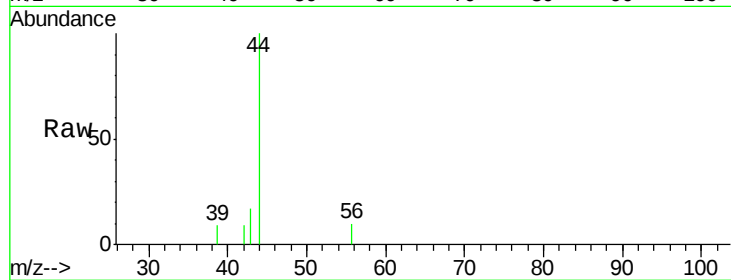
RBR-200053RE

Tot Ion: 56 Resp: 198

Ion Ratio Lower Upper

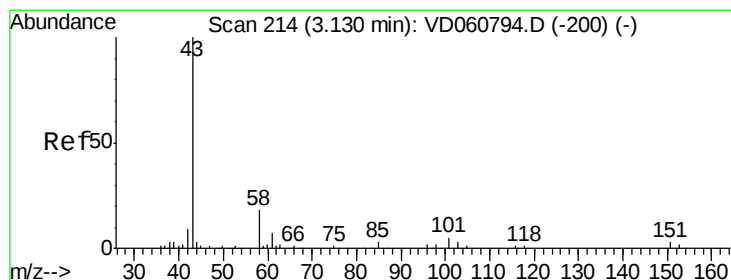
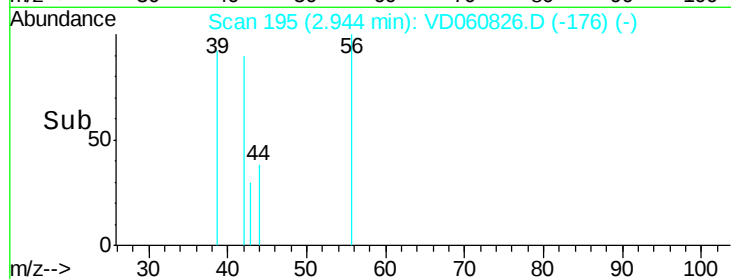
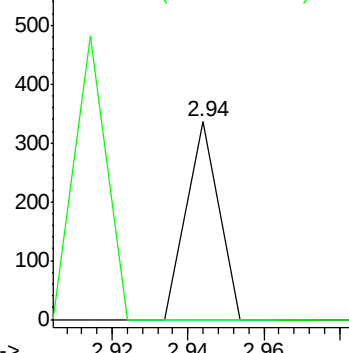
56 100

55 0.0 64.2 96.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 85.792 ug/l

RT: 3.13 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD060826.D

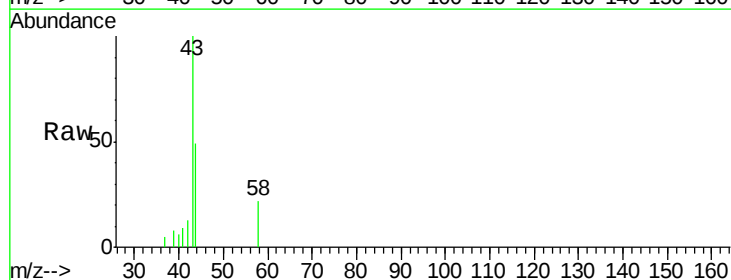
Acq: 1 Feb 2019 18:29

Tgt Ion: 43 Resp: 21934

Ion Ratio Lower Upper

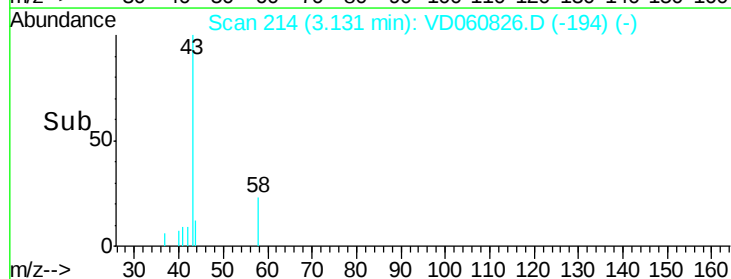
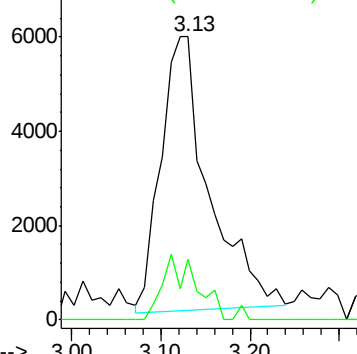
43 100

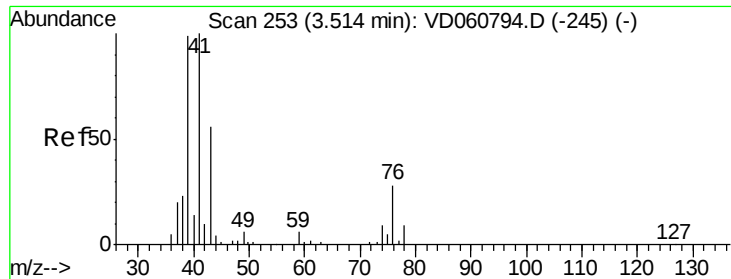
58 21.6 14.5 21.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

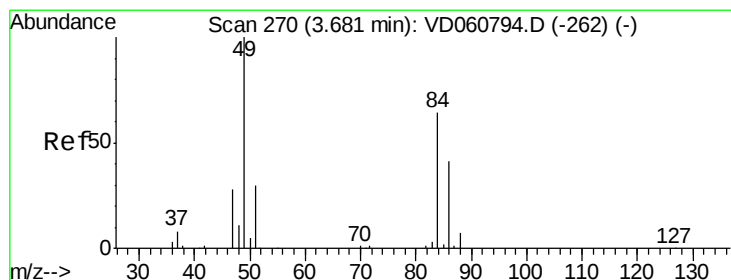
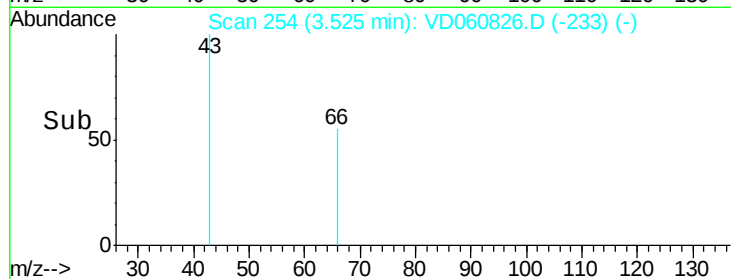
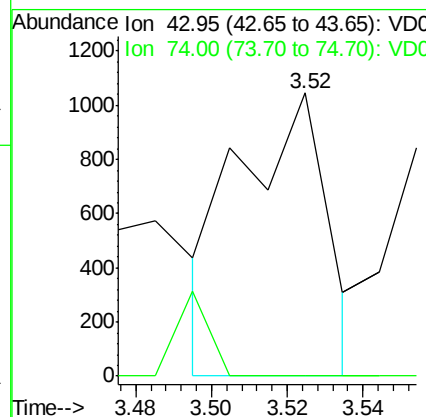
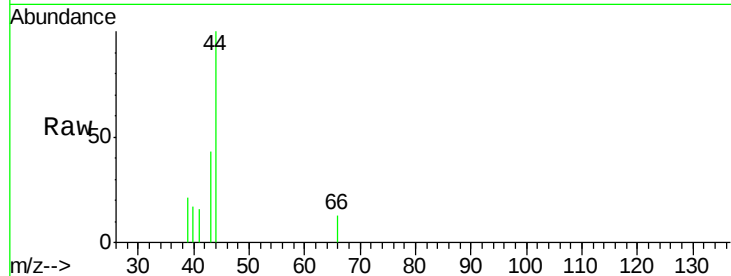




#18
Methyl Acetate
Concen: 3.360 ug/l
RT: 3.52 min Scan# 254
Delta R.T. 0.01 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

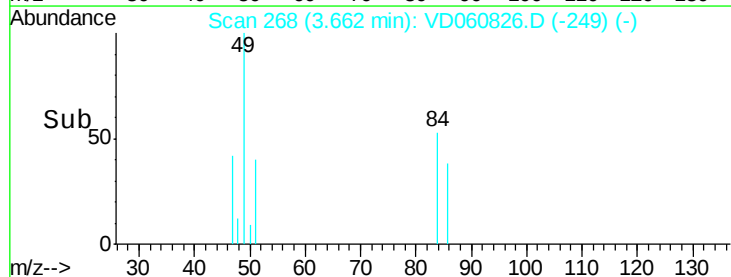
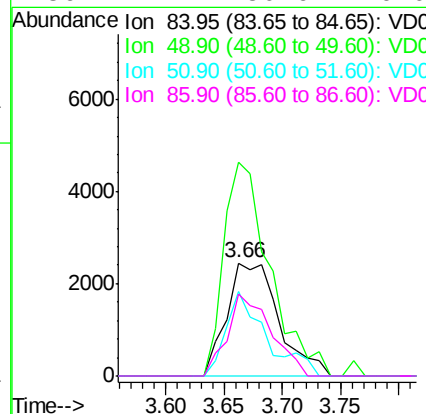
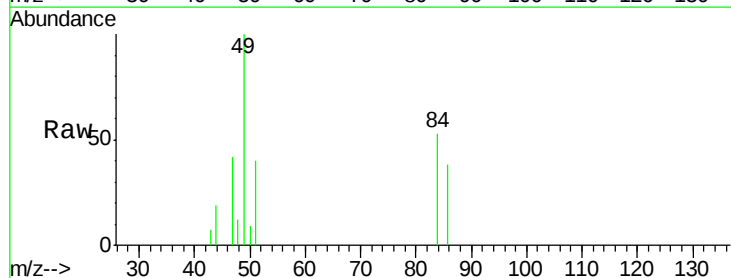
Instrument :
MSVOA_D
ClientSampleId :
RBR-200053RE

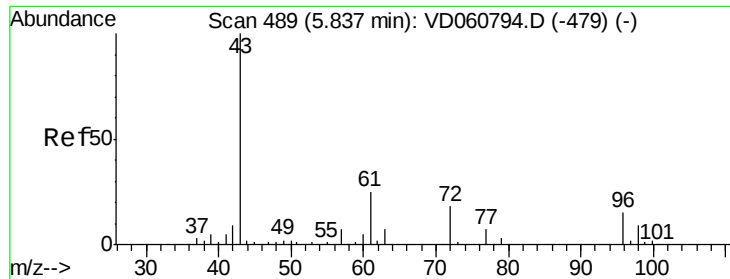
Tot Ion: 43 Resp: 1703
Ion Ratio Lower Upper
43 100
74 0.0 12.5 18.7#



#20
Methylene Chloride
Concen: 2.267 ug/l
RT: 3.66 min Scan# 268
Delta R.T. -0.02 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Tgt Ion: 84 Resp: 7557
Ion Ratio Lower Upper
84 100
49 189.2 124.2 186.2#
51 74.8 38.1 57.1#
86 72.2 50.6 76.0





#25

2-Butanone

Concen: 4.419 ug/l

RT: 5.81 min Scan# 486

Delta R.T. -0.03 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

Instrument :

MSVOA_D

ClientSampleId :

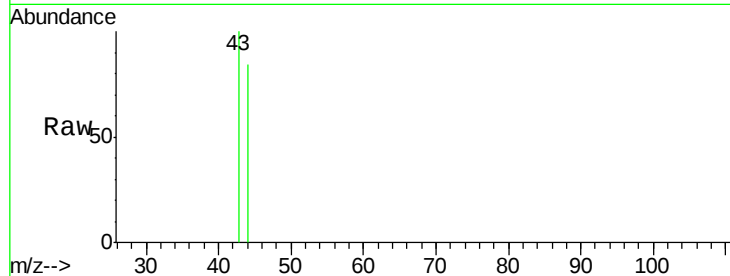
RBR-200053RE

Tot Ion: 43 Resp: 1446

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

5.81

800

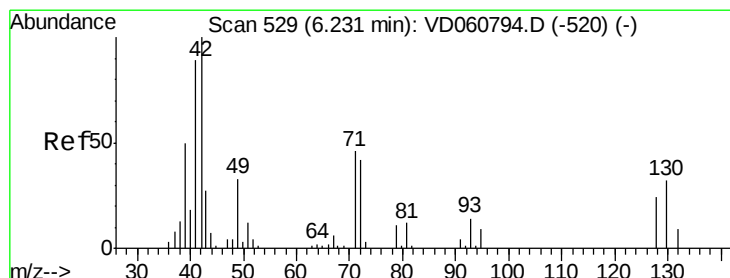
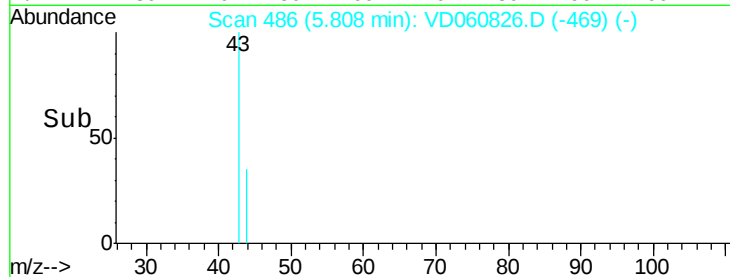
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 4.620 ug/l

RT: 6.18 min Scan# 524

Delta R.T. -0.05 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

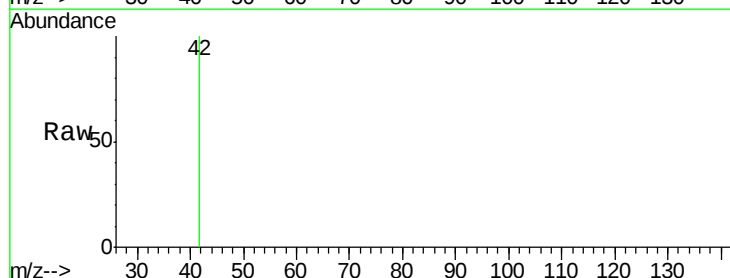
Tgt Ion: 42 Resp: 726

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 34.6 52.0#



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

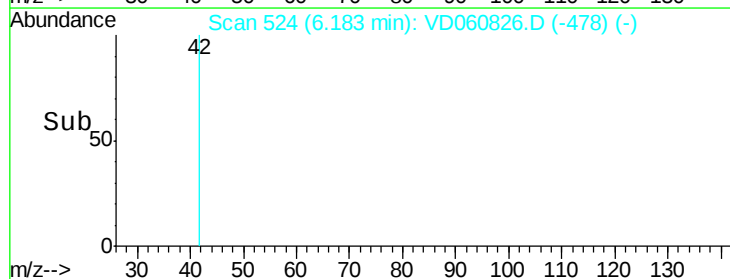
600

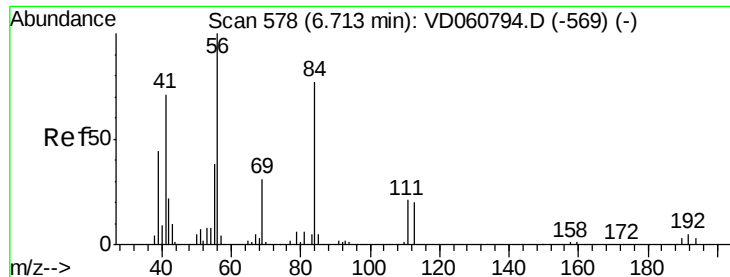
400

200

0

Time-->

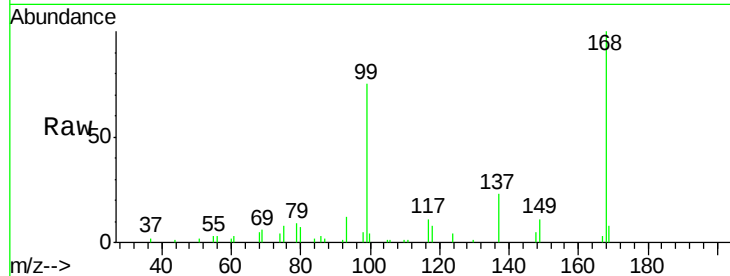




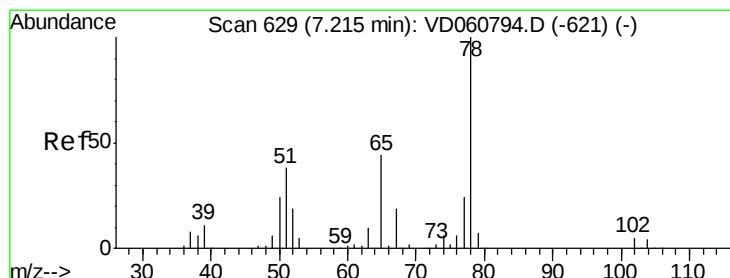
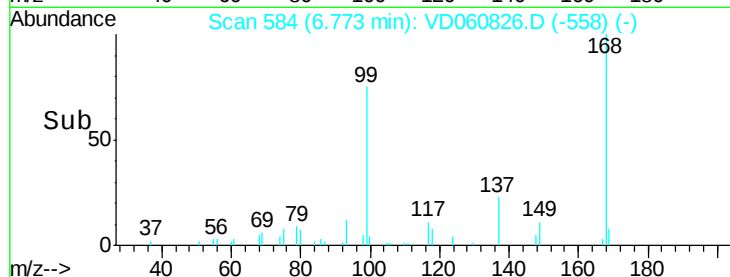
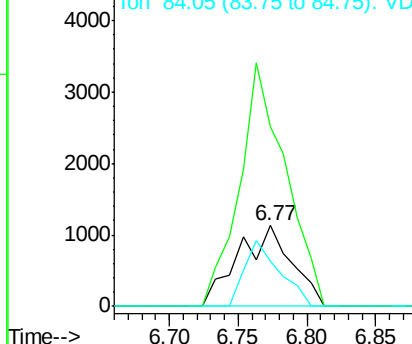
#31
Cyclohexane
Concen: 1.877 ug/l
RT: 6.77 min Scan# 584
Delta R.T. 0.06 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Instrument :
MSVOA_D
ClientSampleId :
RBR-200053RE

Tot Ion: 56 Resp: 3049
Ion Ratio Lower Upper
56 100
69 222.3 25.1 37.7#
84 56.0 63.9 95.9#

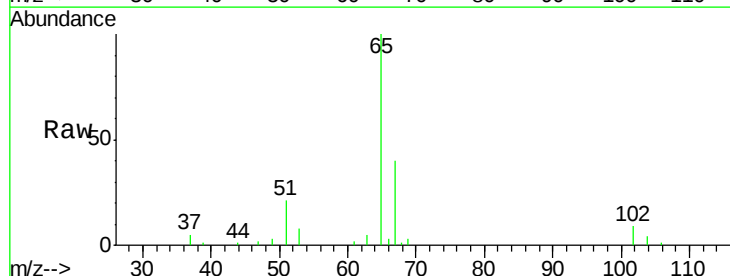


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

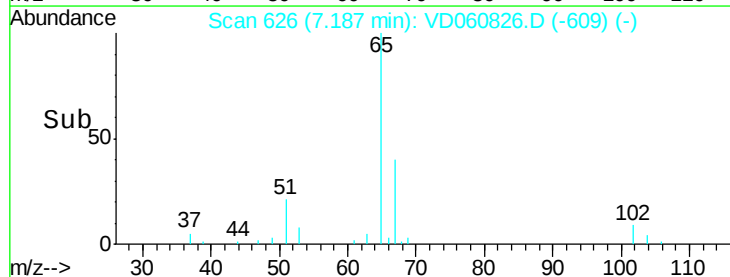
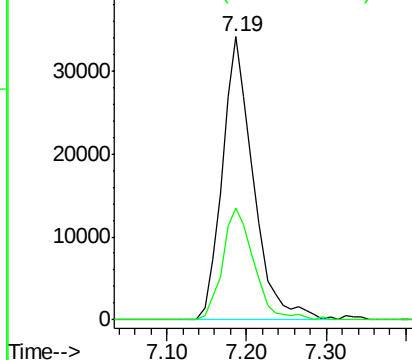


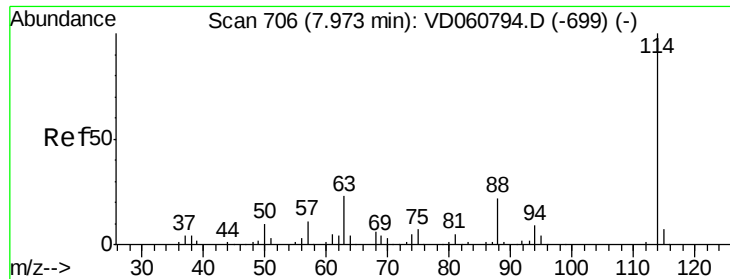
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.19 min Scan# 626
Delta R.T. -0.03 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Tgt Ion: 65 Resp: 92743
Ion Ratio Lower Upper
65 100
67 39.7 0.0 85.8



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

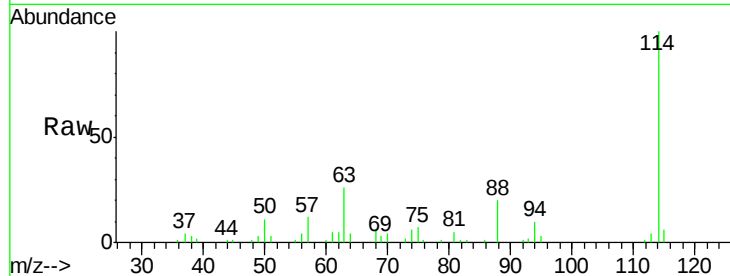




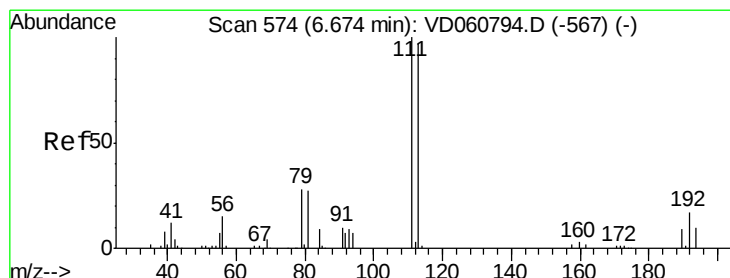
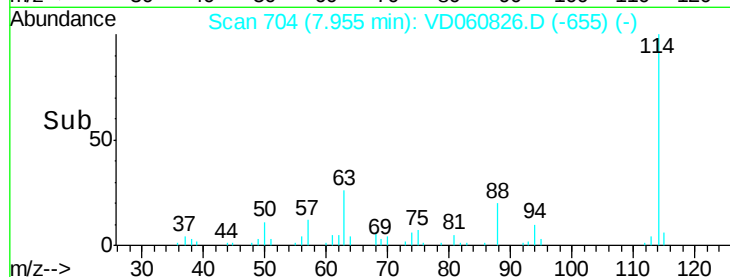
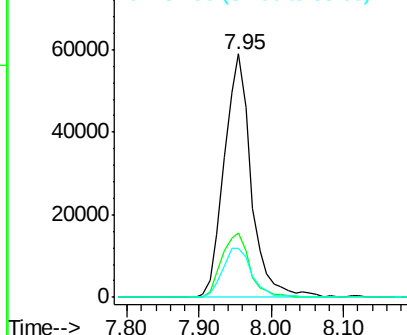
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.95 min Scan# 704
 Delta R.T. -0.02 min
 Lab File: VD060826.D
 Acq: 1 Feb 2019 18:29

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200053RE

Tot Ion:114 Resp: 153377
 Ion Ratio Lower Upper
 114 100
 63 26.4 0.0 46.6
 88 20.4 0.0 44.0

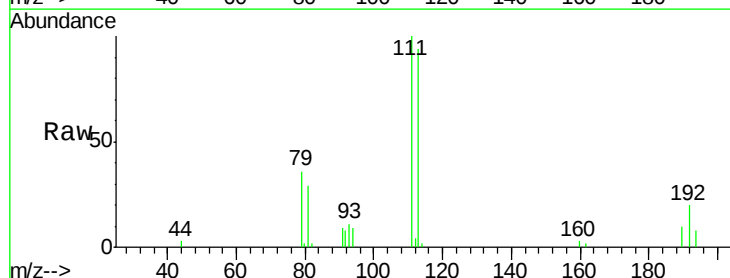


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

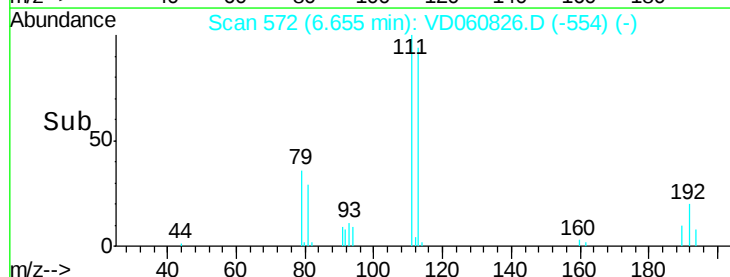
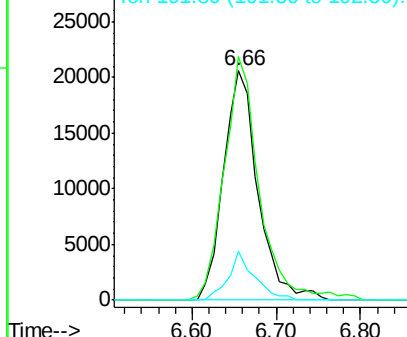


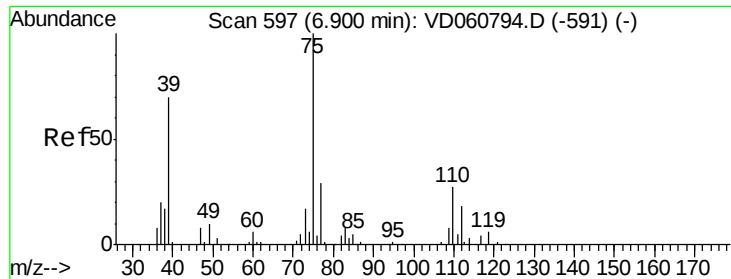
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 572
 Delta R.T. -0.02 min
 Lab File: VD060826.D
 Acq: 1 Feb 2019 18:29

Tgt Ion:113 Resp: 58616
 Ion Ratio Lower Upper
 113 100
 111 106.1 82.3 123.5
 192 21.2 14.4 21.6



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





#36

1,1-Dichloropropene

Concen: 6.249 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.14 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

Instrument :

MSVOA_D

ClientSampleId :

RBR-200053RE

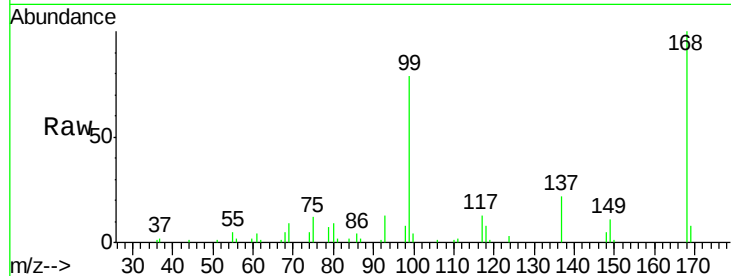
Tot Ion: 75 Resp: 11443

Ion Ratio Lower Upper

75 100

110 12.0 13.5 40.4#

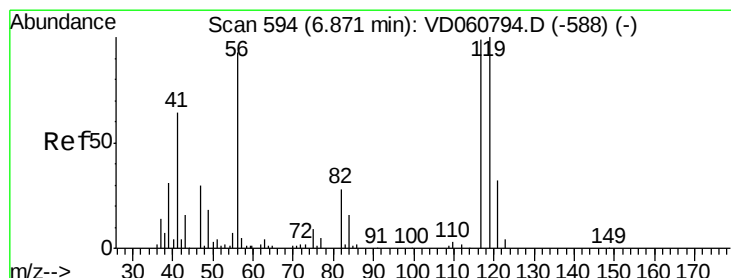
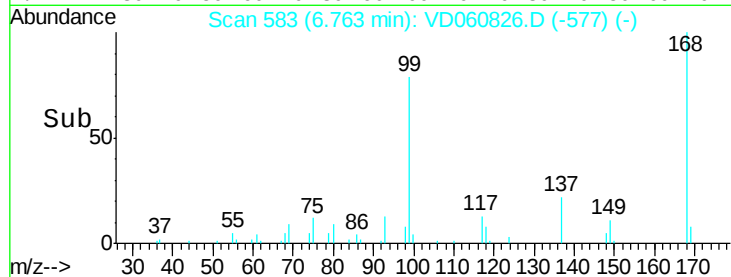
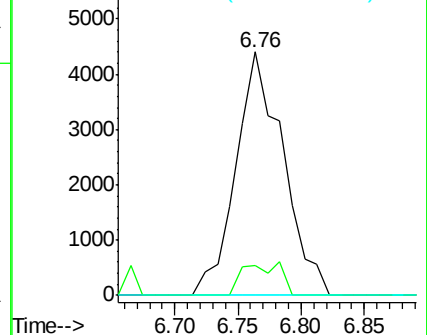
77 0.0 23.4 35.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.120 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.11 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

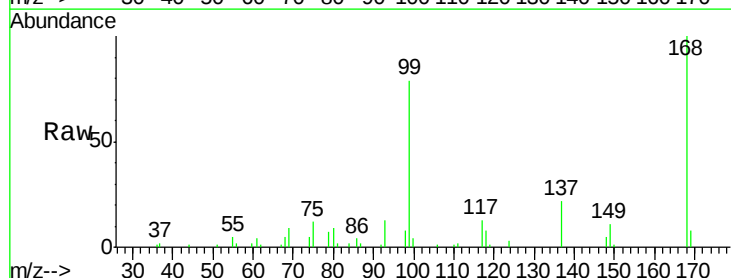
Tgt Ion: 117 Resp: 14055

Ion Ratio Lower Upper

117 100

119 7.7 75.6 113.4#

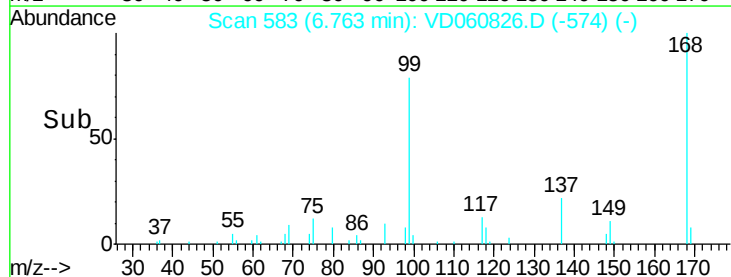
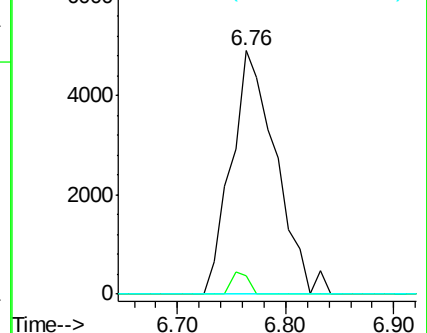
121 0.0 23.4 35.2#

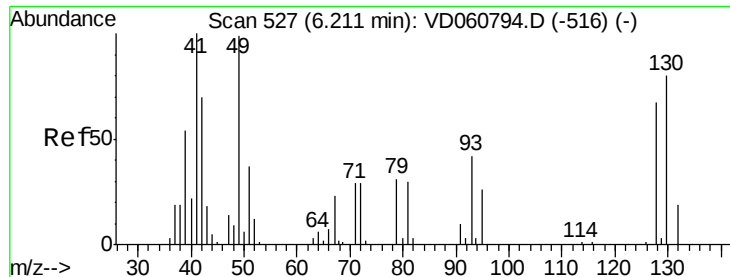


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

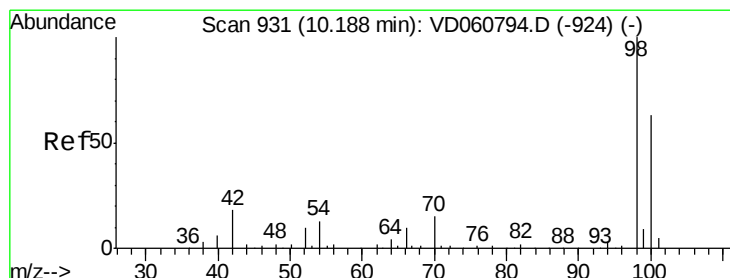
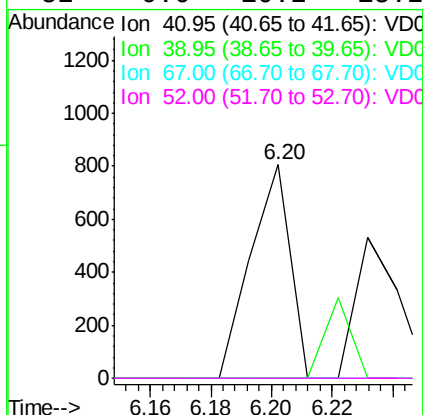
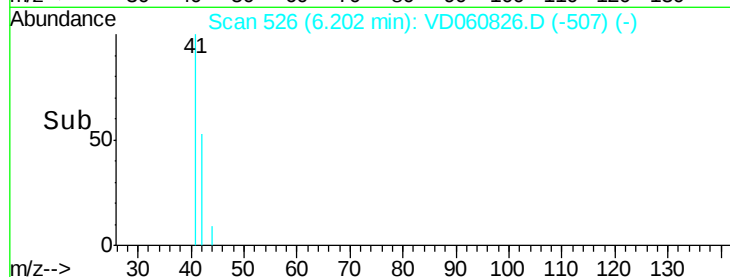
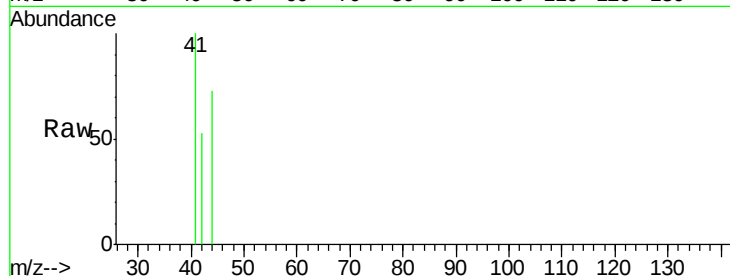




#41
Methacrylonitrile
Concen: 1.425 ug/l
RT: 6.20 min Scan# 526
Delta R.T. -0.01 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

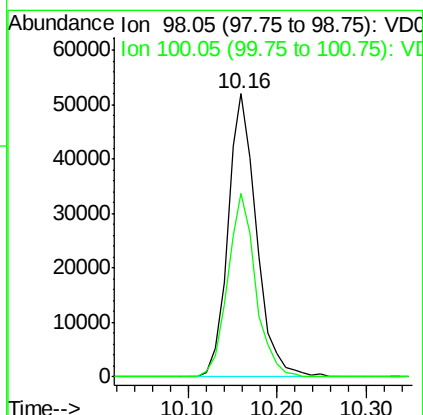
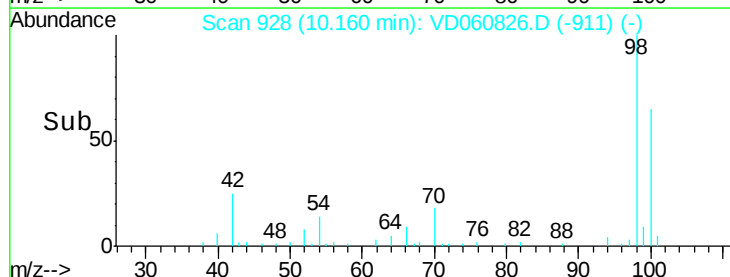
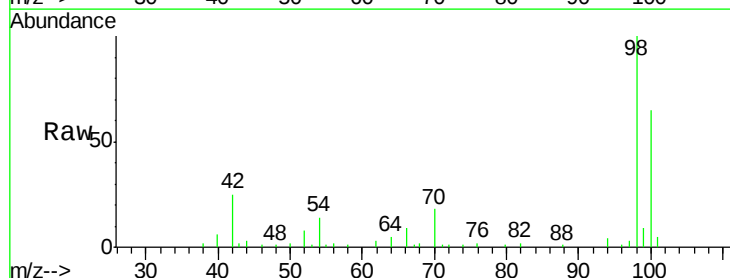
Instrument :
MSVOA_D
ClientSampleId :
RBR-200053RE

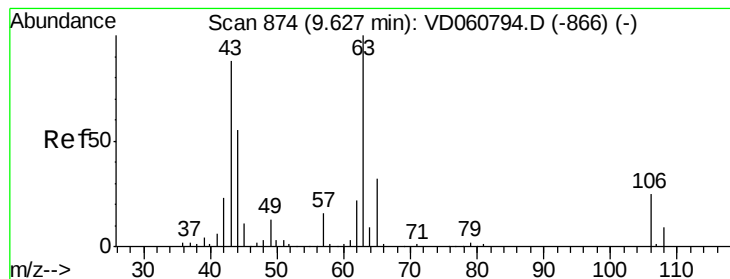
Tot Ion: 41 Resp: 740
Ion Ratio Lower Upper
41 100
39 0.0 43.6 65.4#
67 0.0 18.5 27.7#
52 0.0 10.2 15.2#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.16 min Scan# 928
Delta R.T. -0.03 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Tgt Ion: 98 Resp: 116426
Ion Ratio Lower Upper
98 100
100 64.7 51.0 76.6





#58

2-Chloroethyl Vinyl ether

Concen: 2.772 ug/l

RT: 9.60 min Scan# 871

Delta R.T. -0.03 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

Instrument :

MSVOA_D

ClientSampleId :

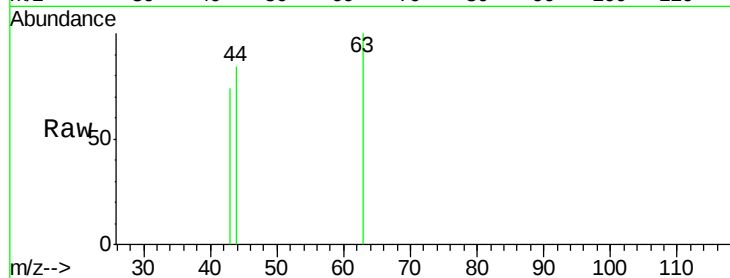
RBR-200053RE

Tot Ion: 63 Resp: 1377

Ion Ratio Lower Upper

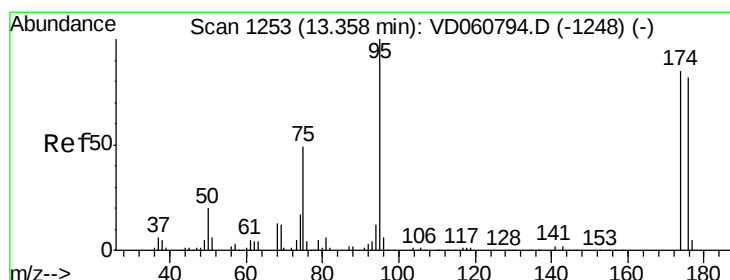
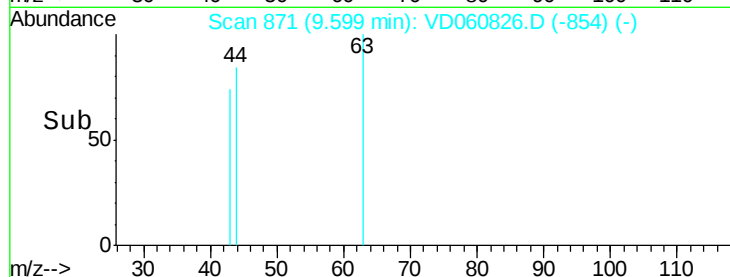
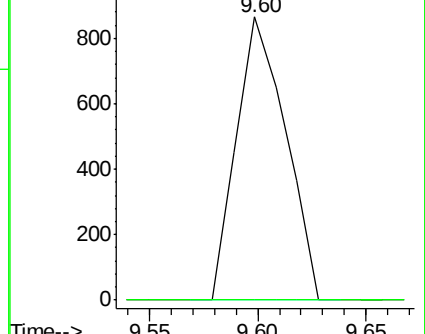
63 100

106 0.0 19.9 29.9#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.34 min Scan# 1251

Delta R.T. -0.02 min

Lab File: VD060826.D

Acq: 1 Feb 2019 18:29

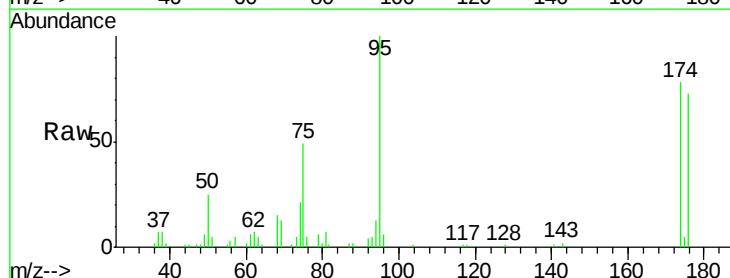
Tgt Ion: 95 Resp: 68593

Ion Ratio Lower Upper

95 100

174 78.4 0.0 169.6

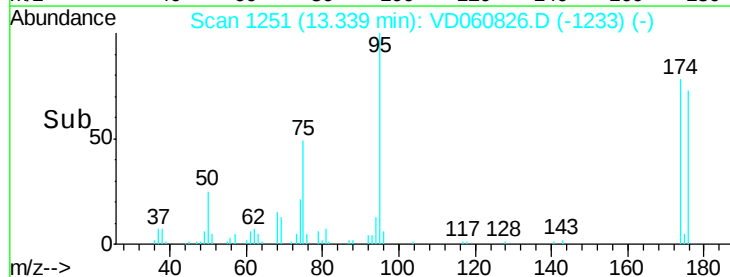
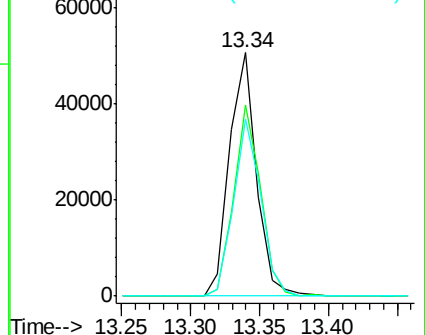
176 72.6 0.0 163.8

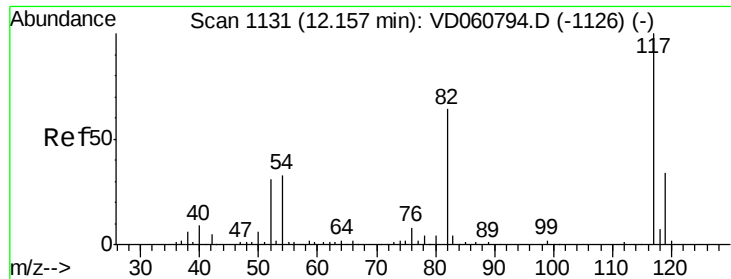


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

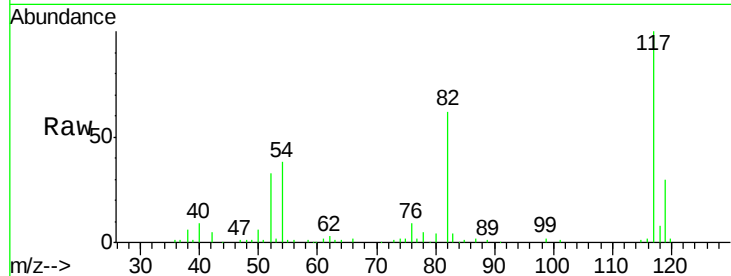




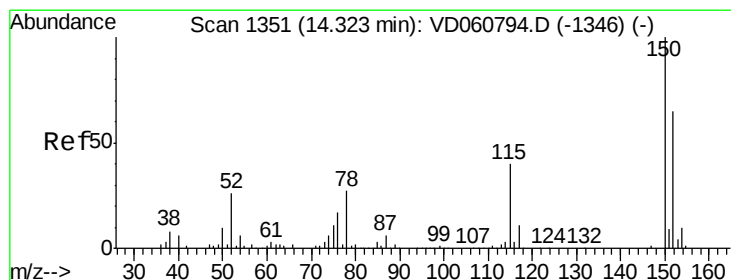
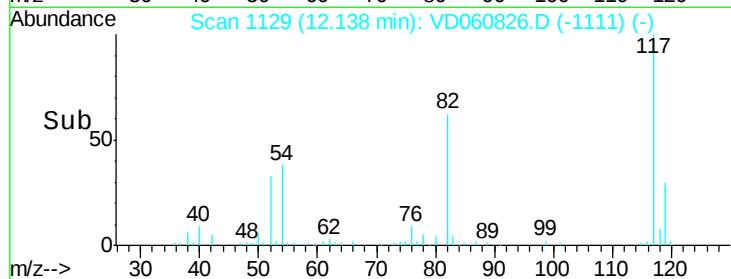
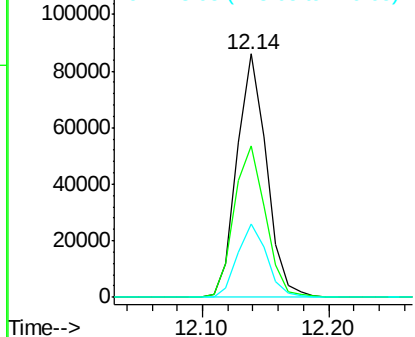
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.14 min Scan# 1129
Delta R.T. -0.02 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Instrument :
MSVOA_D
ClientSampleId :
RBR-200053RE

Tot Ion:117 Resp: 139710
Ion Ratio Lower Upper
117 100
82 62.4 51.5 77.3
119 30.2 27.1 40.7

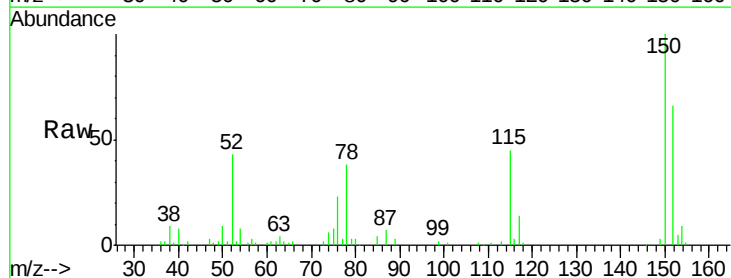


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

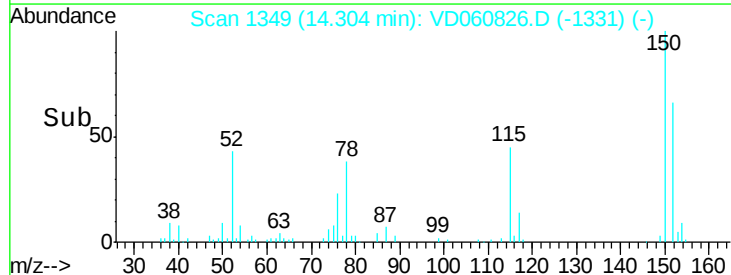
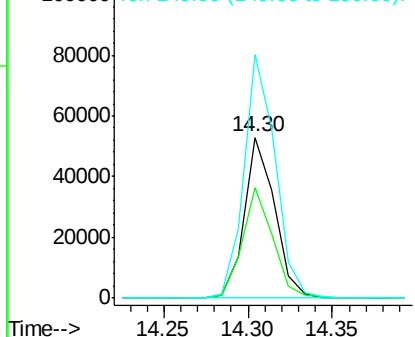


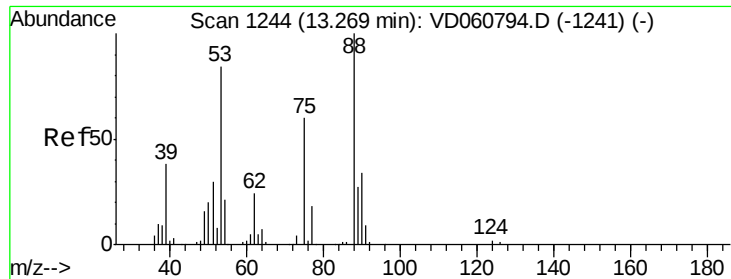
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.30 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Tgt Ion:152 Resp: 65961
Ion Ratio Lower Upper
152 100
115 68.7 31.6 95.0
150 151.2 0.0 317.6



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

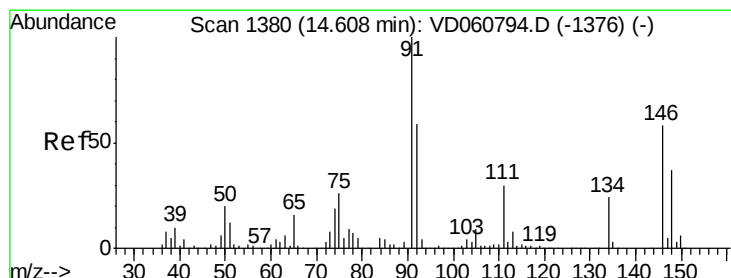
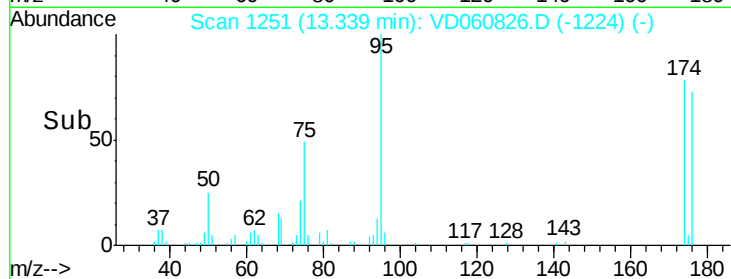
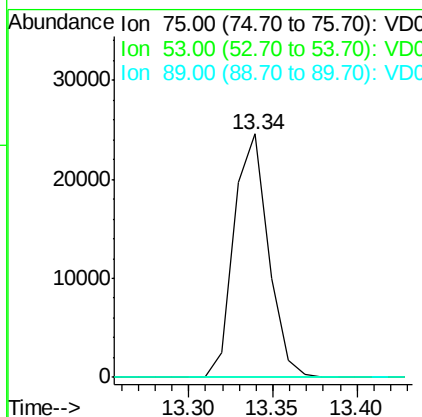
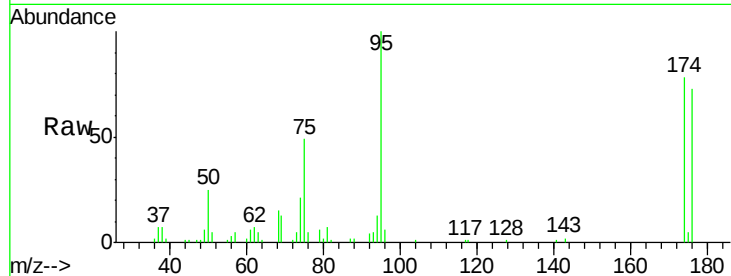




#81
trans-1,4-Dichloro-2-butene
Concen: 110.181 ug/l
RT: 13.34 min Scan# 1251
Delta R.T. 0.07 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

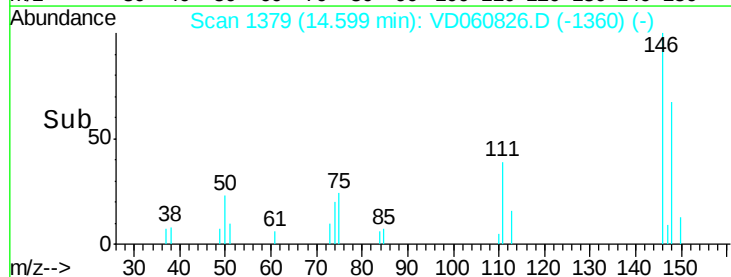
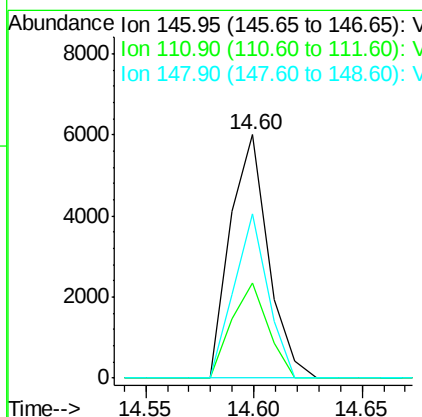
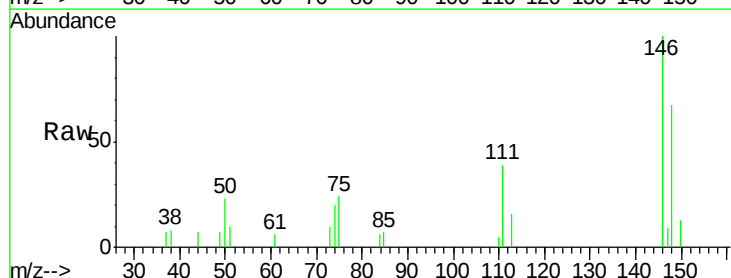
Instrument :
MSVOA_D
ClientSampleId :
RBR-200053RE

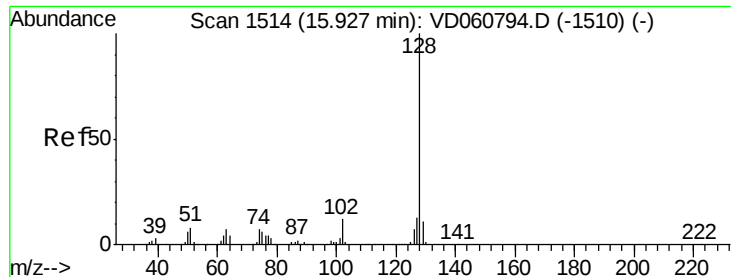
Tot Ion: 75 Resp: 34745
Ion Ratio Lower Upper
75 100
53 0.0 111.6 167.4#
89 0.0 35.9 53.9#



#91
1,2-Dichlorobenzene
Concen: 3.678 ug/l
RT: 14.60 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Tgt Ion: 146 Resp: 7382
Ion Ratio Lower Upper
146 100
111 39.3 25.6 76.8
148 67.4 31.4 94.3

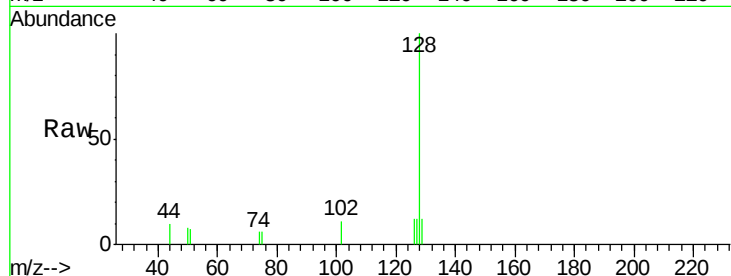




#95
Naphthalene
Concen: 2.190 ug/l
RT: 15.92 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VD060826.D
Acq: 1 Feb 2019 18:29

Instrument :
MSVOA_D
ClientSampleId :
RBR-200053RE

Tot Ion:128 Resp: 5848
Ion Ratio Lower Upper
128 100
127 12.4 10.4 15.6
129 11.8 8.7 13.1



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

