

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060817.D
 Acq On : 1 Feb 2019 14:14
 Operator : VA/AP
 Sample : K1011-15
 Misc : 4.68g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-013119-B

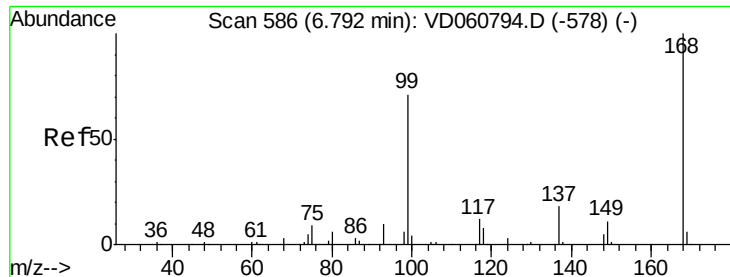
Quant Time: Feb 02 00:23:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.77	168	532435	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.95	114	719778	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.14	117	576570	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.31	152	274264	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.19	65	323513	39.63	ug/l	-0.02
Spiked Amount			Recovery	=	79.26%	
35) Dibromofluoromethane	6.65	113	267211	38.71	ug/l	-0.02
Spiked Amount			Recovery	=	77.42%	
50) Toluene-d8	10.16	98	602752	37.39	ug/l	-0.02
Spiked Amount			Recovery	=	74.78%	
62) 4-Bromofluorobenzene	13.34	95	285390	35.22	ug/l	-0.01
Spiked Amount			Recovery	=	70.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.10	56	216	Below Cal	#	9
16) Acetone	3.12	43	47877	40.609	ug/l	97
20) Methylene Chloride	3.66	84	42598	3.916	ug/l	85
25) 2-Butanone	5.82	43	4928	3.266	ug/l #	59
29) Tetrahydrofuran	6.20	42	2028	2.799	ug/l #	33
36) 1,1-Dichloropropene	6.77	75	53767	6.256	ug/l #	54
38) Carbon Tetrachloride	6.77	117	61647	5.720	ug/l #	15
52) Toluene	10.26	92	148958	13.845	ug/l	95
68) m/p-Xylenes	12.45	106	25589	3.320	ug/l	88
69) o-Xylene	12.83	106	10360	1.358	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.34	75	152123	116.019	ug/l #	1
95) Naphthalene	15.92	128	40374	3.636	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.77 min Scan# 583

Delta R.T. -0.02 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

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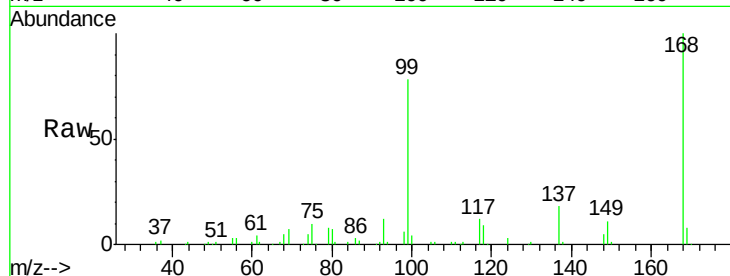
OR-02-013119-B

Tot Ion:168 Resp: 532435

Ion Ratio Lower Upper

168 100

99 77.6 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

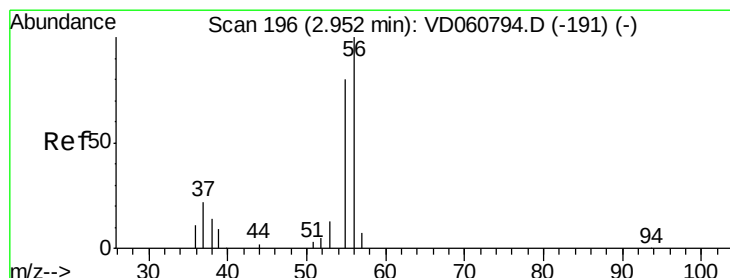
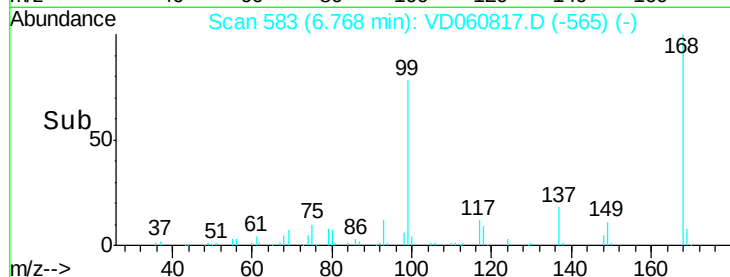
150000

100000

50000

0

Time--> 6.60 6.70 6.80 6.90 7.00



#13

Acrolein

Concen: Below Cal

RT: 3.10 min Scan# 210

Delta R.T. 0.14 min

Lab File: VD060817.D

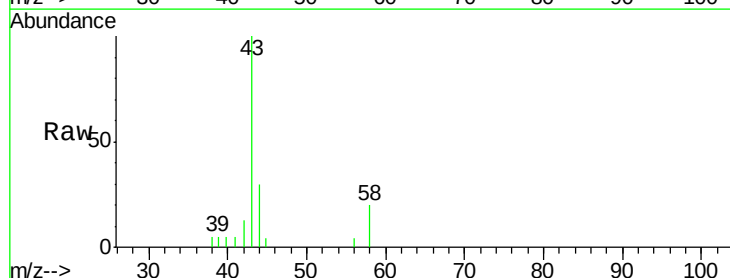
Acq: 1 Feb 2019 14:14

Tgt Ion: 56 Resp: 216

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

3.10

400

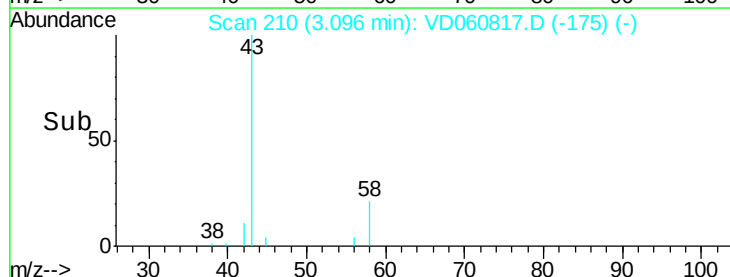
300

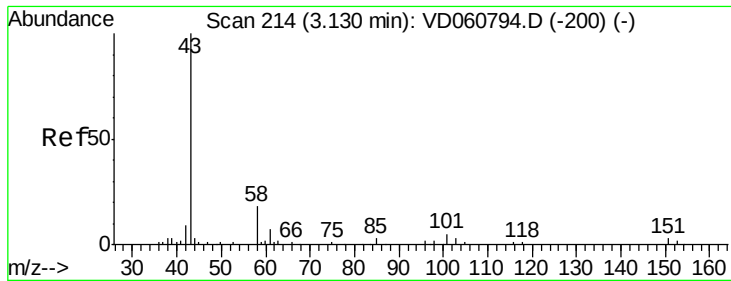
200

100

0

Time--> 3.08 3.10





#16

Acetone

Concen: 40.609 ug/l

RT: 3.12 min Scan# 212

Delta R.T. -0.01 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

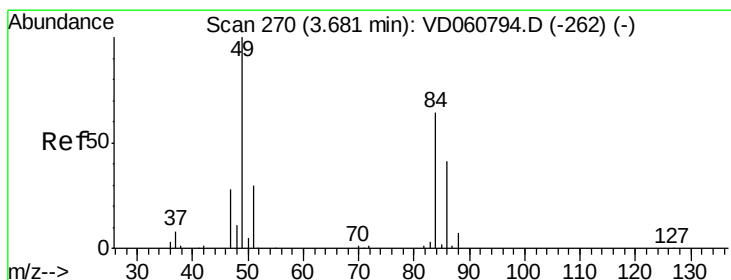
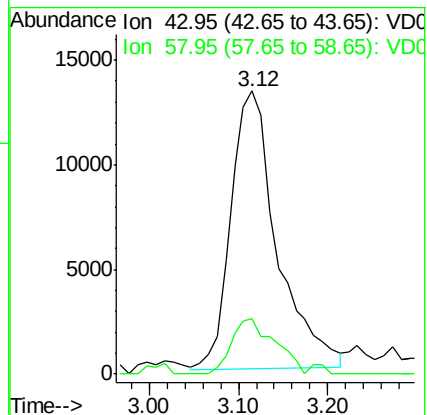
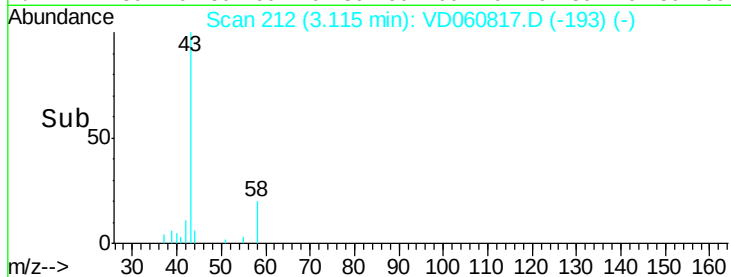
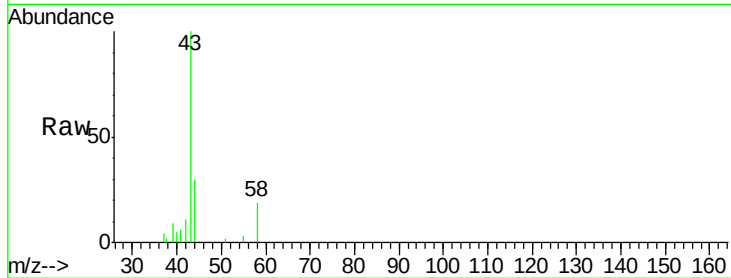
OR-02-013119-B

Tot Ion: 43 Resp: 47877

Ion Ratio Lower Upper

43 100

58 19.4 14.5 21.7



#20

Methylene Chloride

Concen: 3.916 ug/l

RT: 3.66 min Scan# 267

Delta R.T. -0.02 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Tgt Ion: 84 Resp: 42598

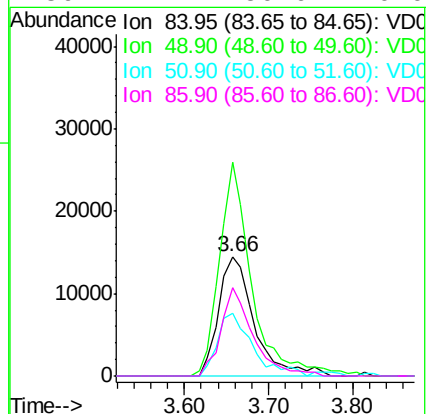
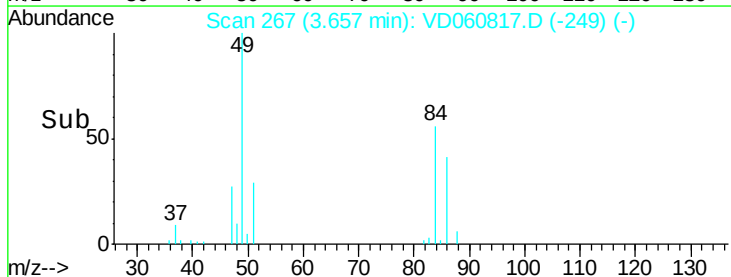
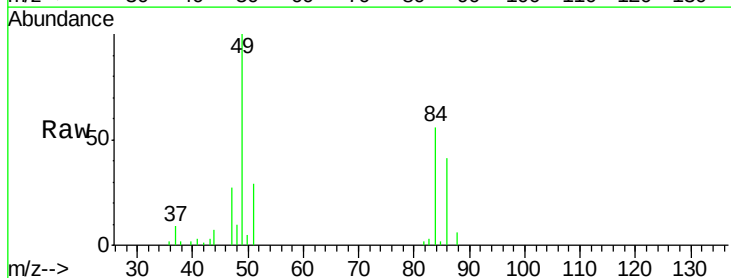
Ion Ratio Lower Upper

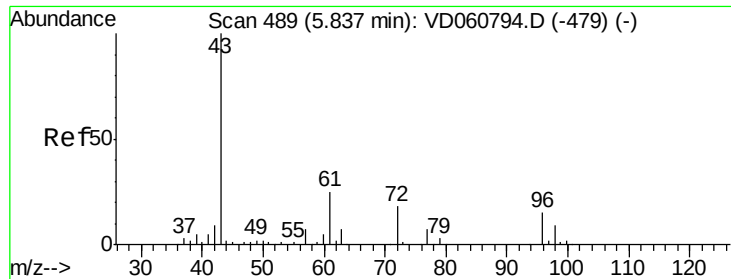
84 100

49 179.1 124.2 186.2

51 52.3 38.1 57.1

86 74.1 50.6 76.0





#25

2-Butanone

Concen: 3.266 ug/l

RT: 5.82 min Scan# 487

Delta R.T. -0.01 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

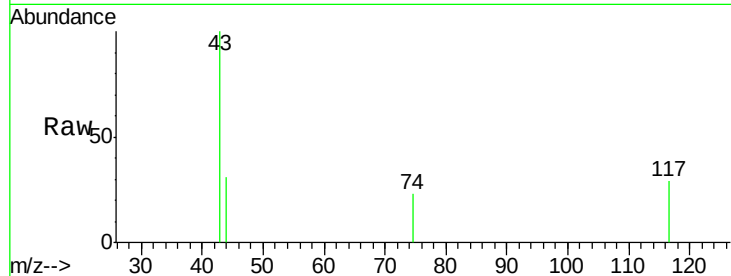
OR-02-013119-B

Tot Ion: 43 Resp: 4928

Ion Ratio Lower Upper

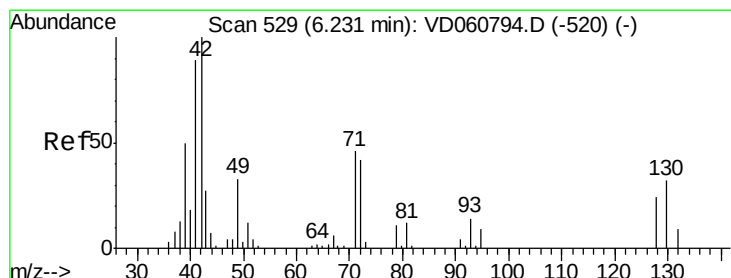
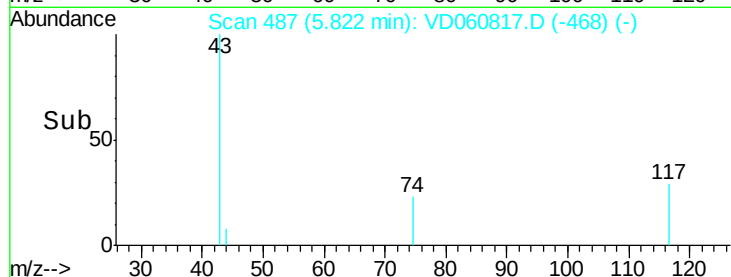
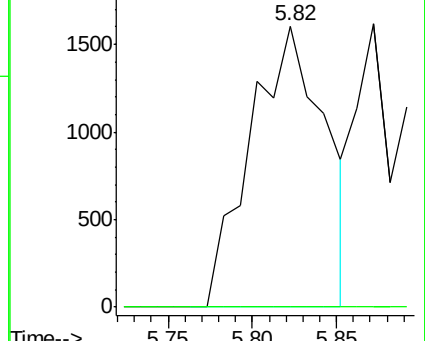
43 100

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



#29

Tetrahydrofuran

Concen: 2.799 ug/l

RT: 6.20 min Scan# 525

Delta R.T. -0.03 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

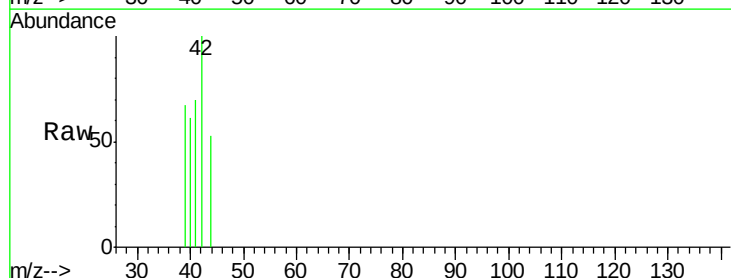
Tgt Ion: 42 Resp: 2028

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

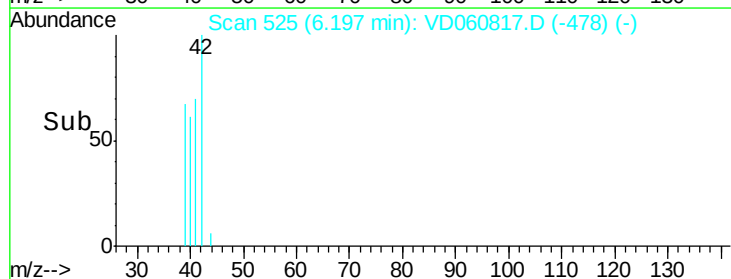
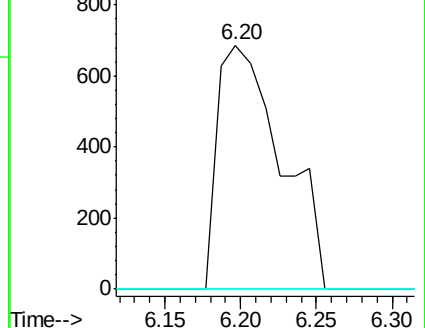
71 0.0 34.6 52.0#

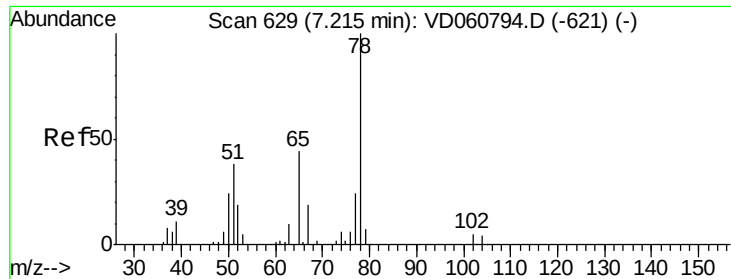


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

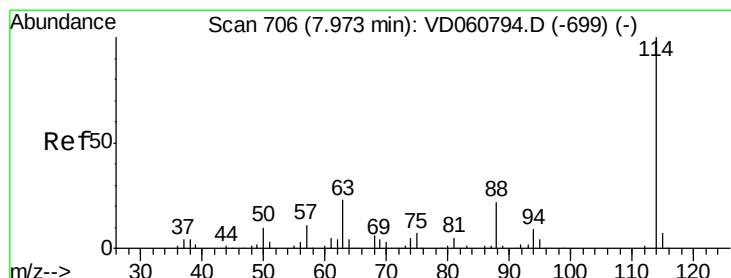
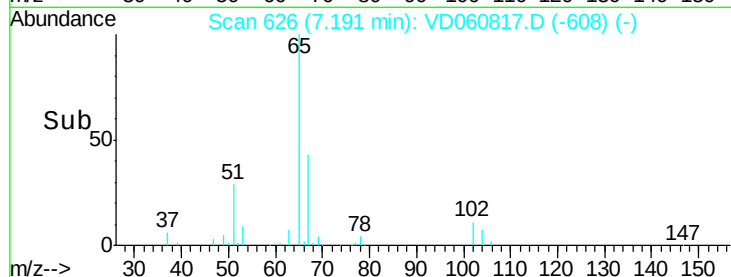
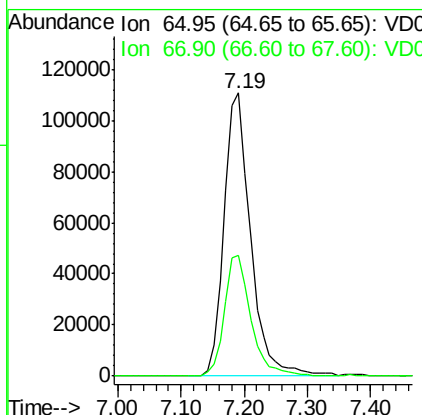
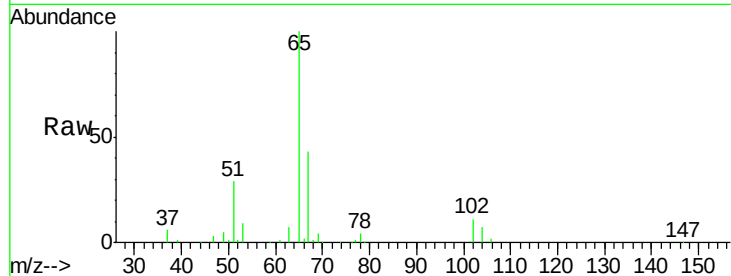




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.19 min Scan# 626
 Delta R.T. -0.02 min
 Lab File: VD060817.D
 Acq: 1 Feb 2019 14:14

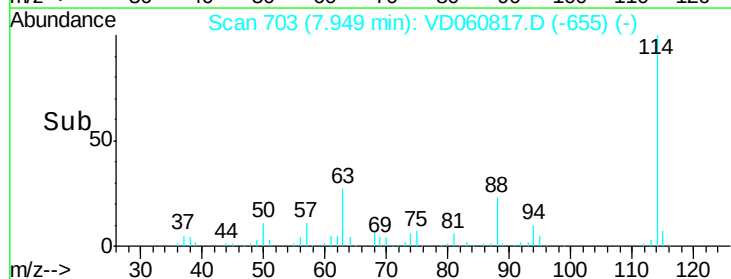
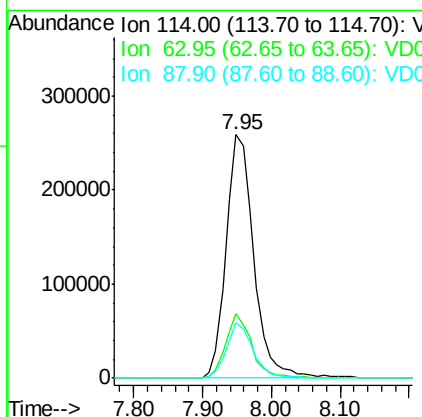
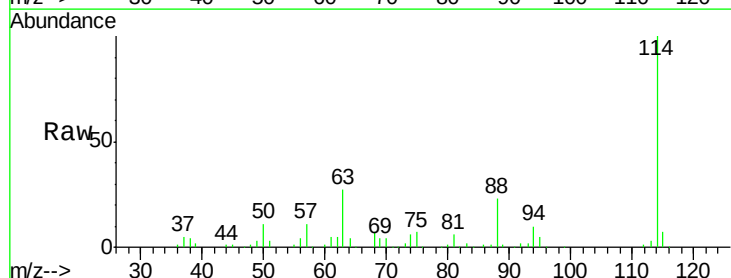
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-013119-B

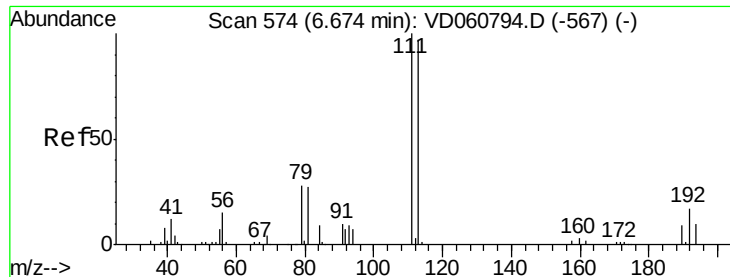
Tot Ion: 65 Resp: 323513
 Ion Ratio Lower Upper
 65 100
 67 42.9 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.95 min Scan# 703
 Delta R.T. -0.02 min
 Lab File: VD060817.D
 Acq: 1 Feb 2019 14:14

Tgt Ion: 114 Resp: 719778
 Ion Ratio Lower Upper
 114 100
 63 26.7 0.0 46.6
 88 22.7 0.0 44.0

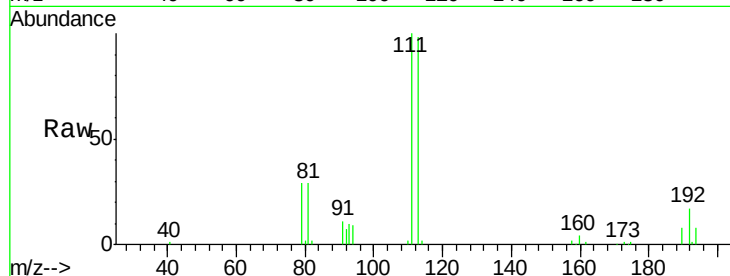




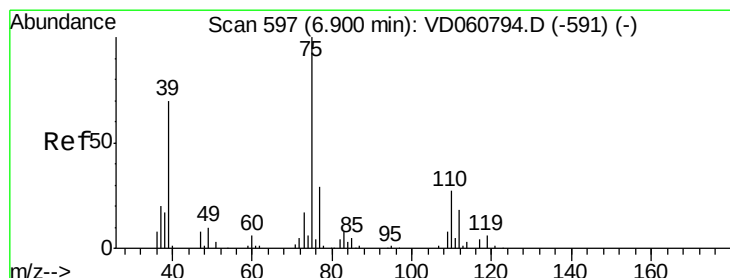
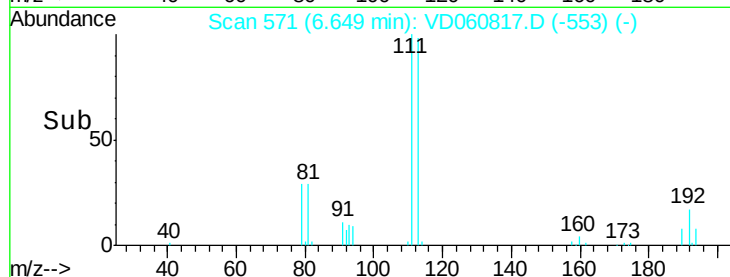
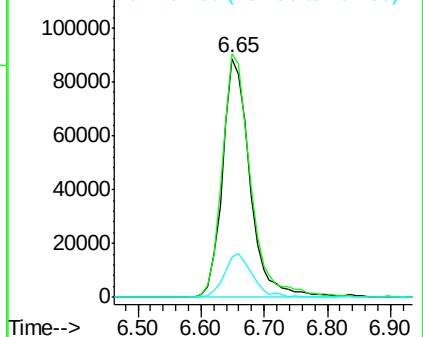
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.65 min Scan# 571
 Delta R.T. -0.02 min
 Lab File: VD060817.D
 Acq: 1 Feb 2019 14:14

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-013119-B

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.3	123.5
192	16.9	14.4	21.6

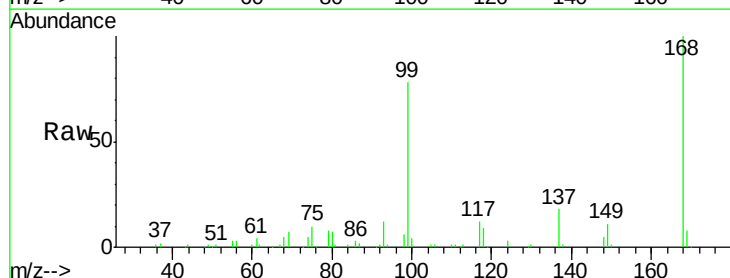


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

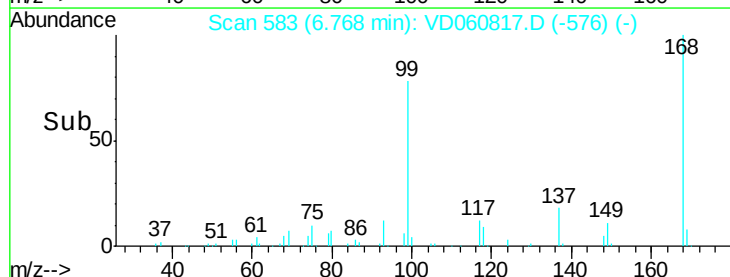
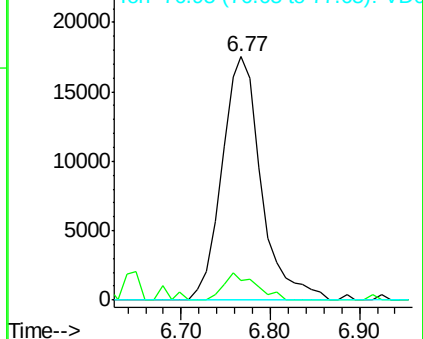


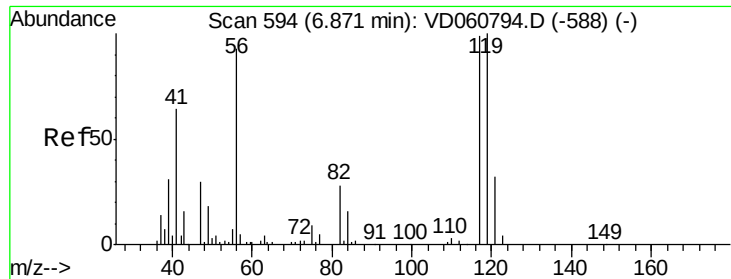
#36
 1,1-Dichloropropene
 Concen: 6.256 ug/l
 RT: 6.77 min Scan# 583
 Delta R.T. -0.13 min
 Lab File: VD060817.D
 Acq: 1 Feb 2019 14:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	13.5	40.4#
77	0.0	23.4	35.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.720 ug/l

RT: 6.77 min Scan# 583

Delta R.T. -0.10 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

OR-02-013119-B

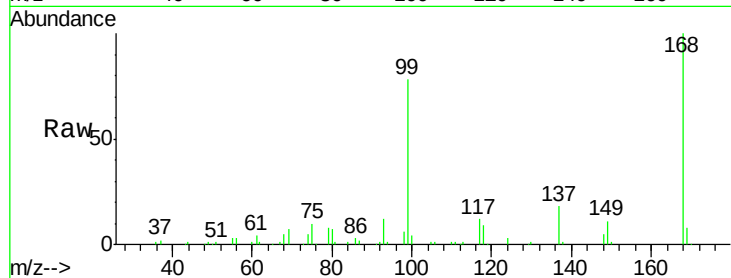
Tot Ion:117 Resp: 61647

Ion Ratio Lower Upper

117 100

119 2.9 75.6 113.4#

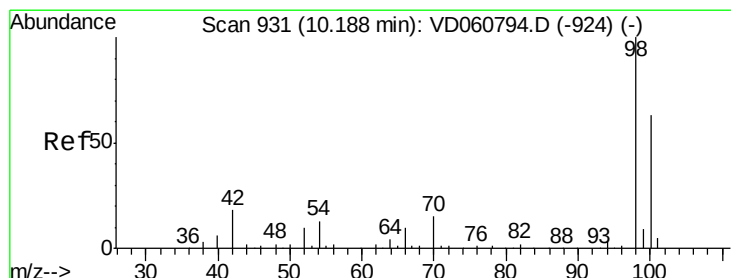
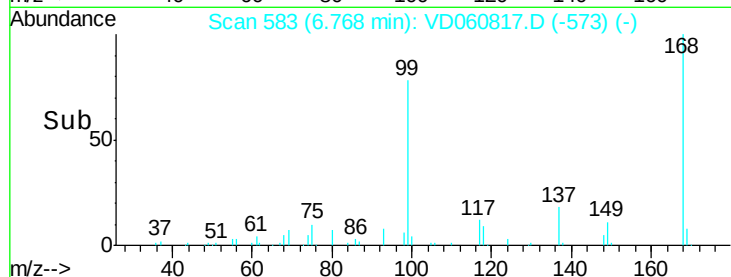
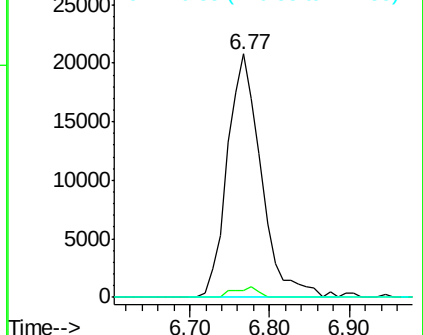
121 0.0 23.4 35.2#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.16 min Scan# 928

Delta R.T. -0.02 min

Lab File: VD060817.D

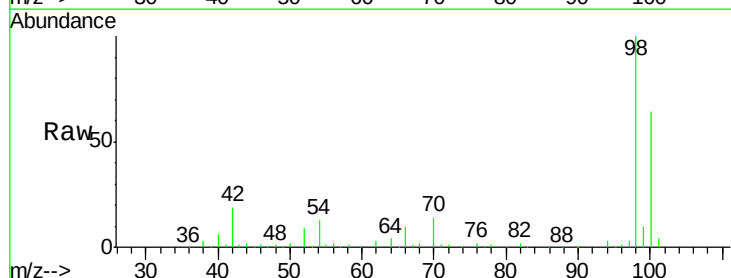
Acq: 1 Feb 2019 14:14

Tgt Ion: 98 Resp: 602752

Ion Ratio Lower Upper

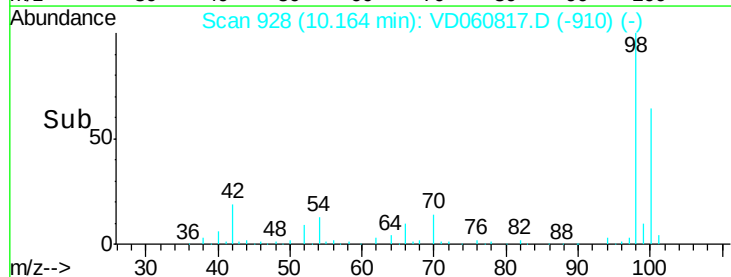
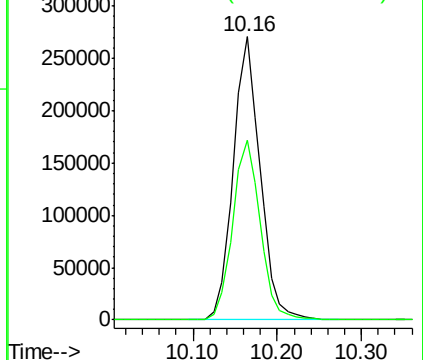
98 100

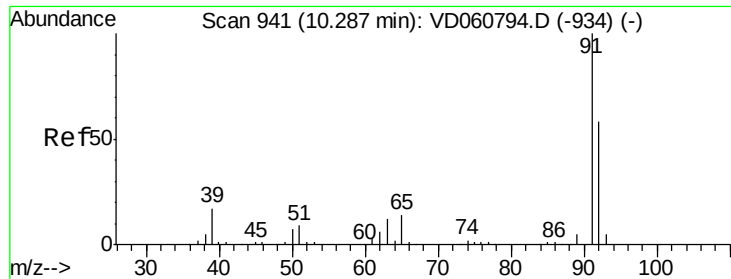
100 63.6 51.0 76.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 13.845 ug/l

RT: 10.26 min Scan# 938

Delta R.T. -0.02 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

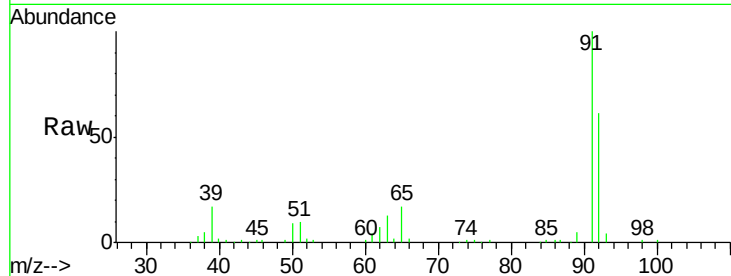
OR-02-013119-B

Tot Ion: 92 Resp: 148958

Ion Ratio Lower Upper

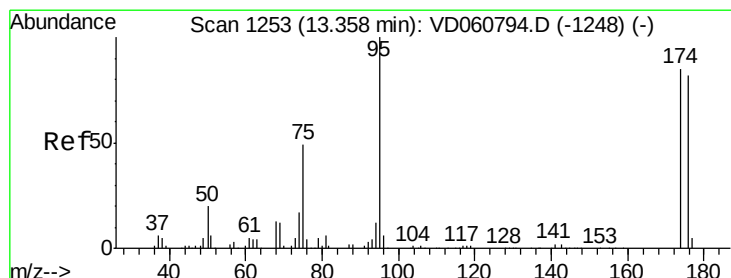
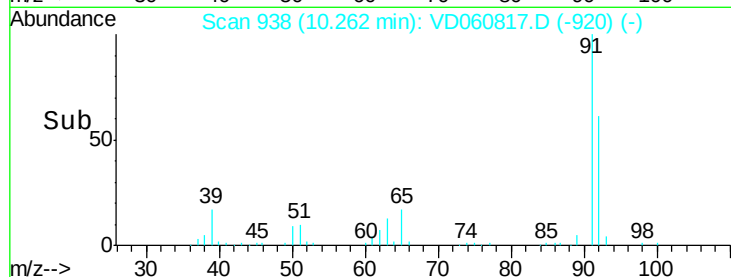
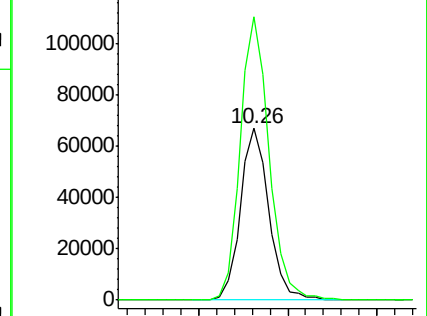
92 100

91 165.2 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.34 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

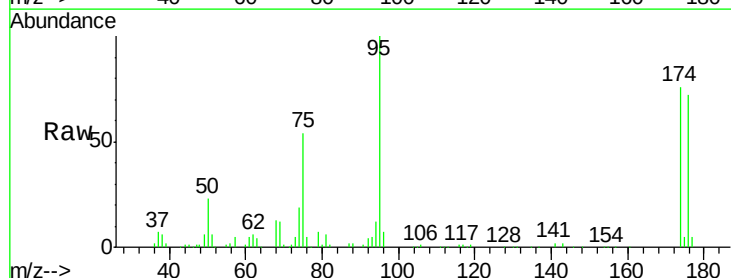
Tgt Ion: 95 Resp: 285390

Ion Ratio Lower Upper

95 100

174 75.6 0.0 169.6

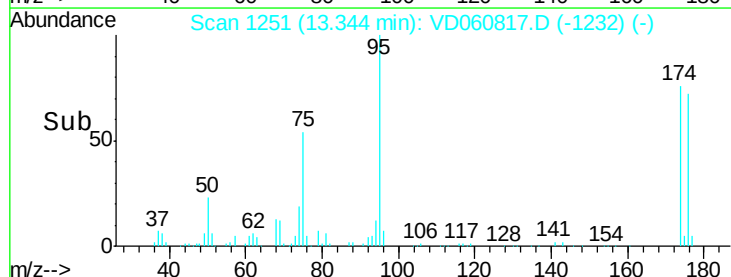
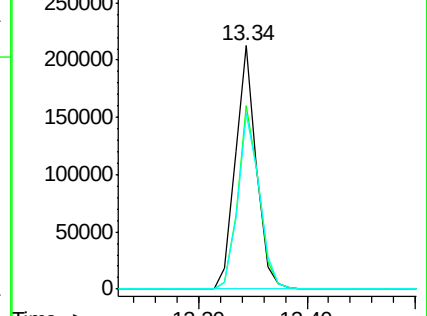
176 72.1 0.0 163.8

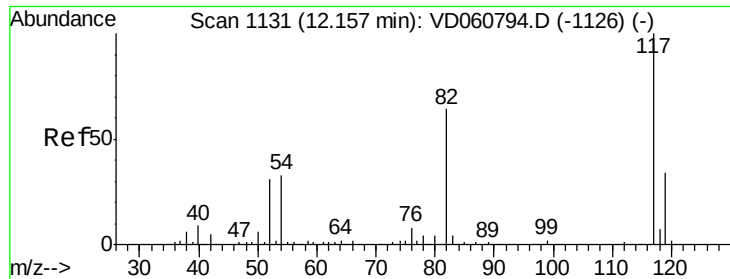


Abundance Ion 95.00 (94.70 to 95.70): VDC

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. -0.01 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

OR-02-013119-B

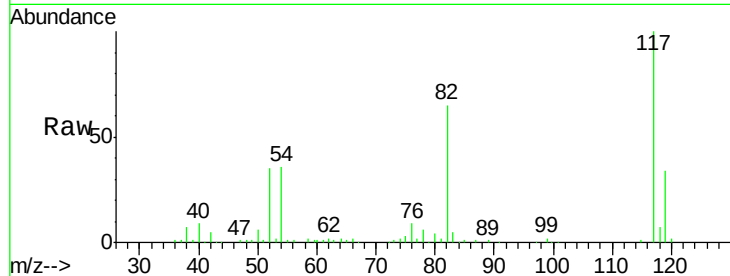
Tot Ion:117 Resp: 576570

Ion Ratio Lower Upper

117 100

82 65.2 51.5 77.3

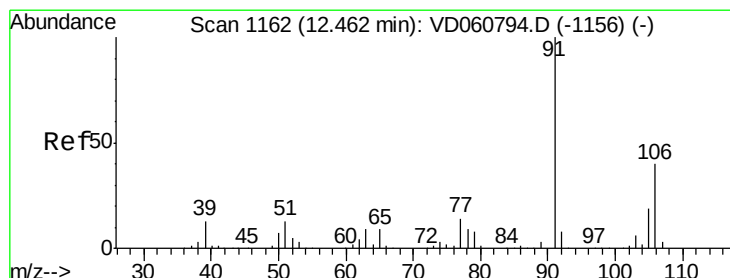
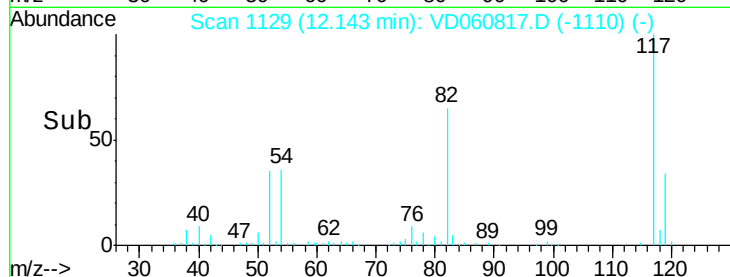
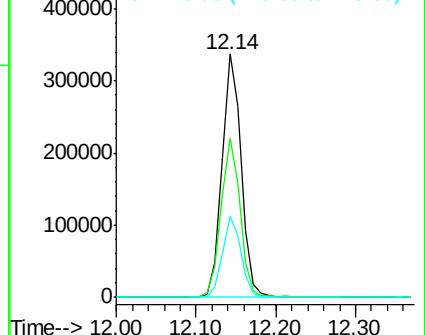
119 33.5 27.1 40.7



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



#68

m/p-Xylenes

Concen: 3.320 ug/l

RT: 12.45 min Scan# 1160

Delta R.T. -0.01 min

Lab File: VD060817.D

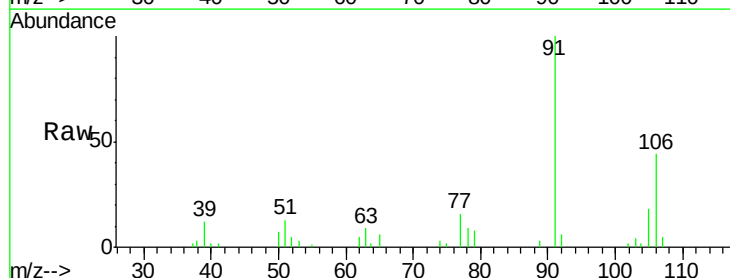
Acq: 1 Feb 2019 14:14

Tgt Ion:106 Resp: 25589

Ion Ratio Lower Upper

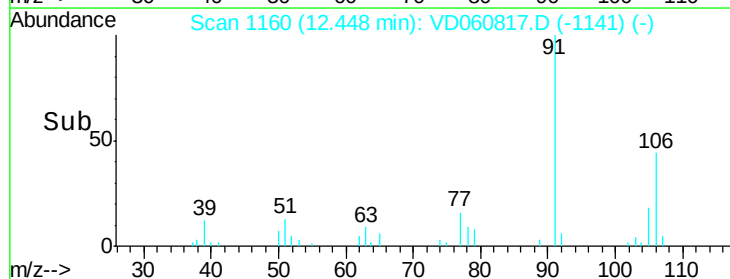
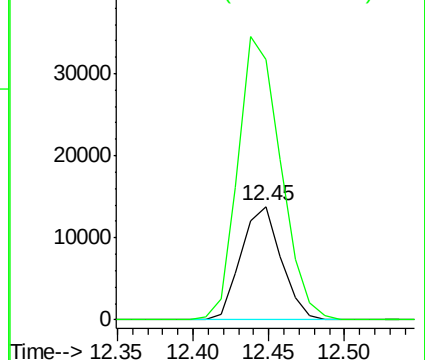
106 100

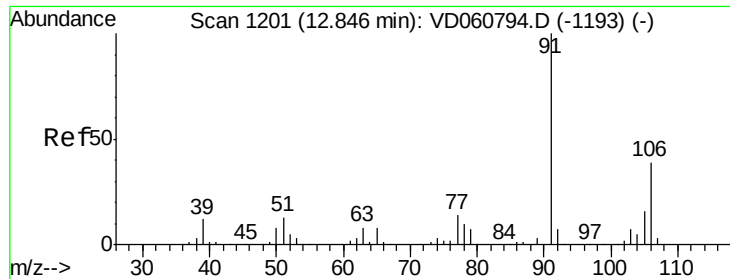
91 229.0 200.5 300.7



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC

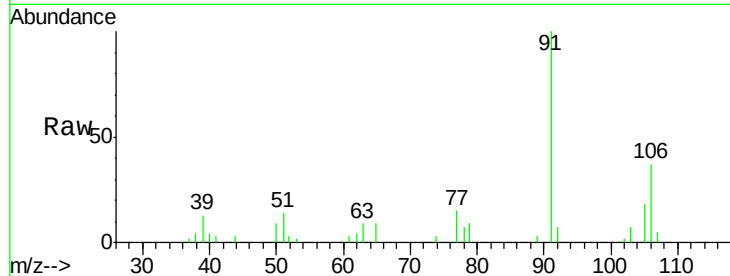




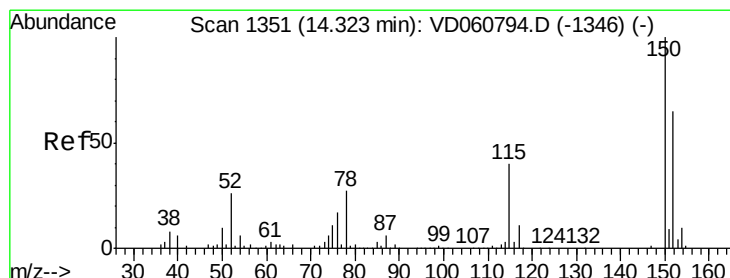
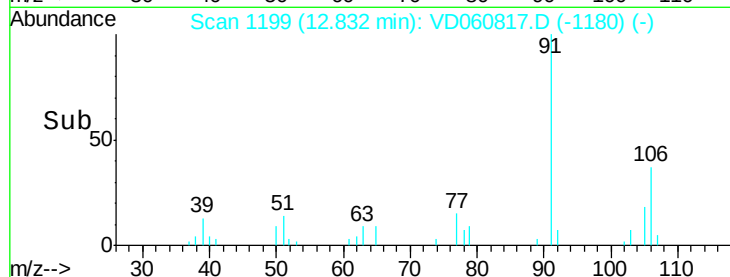
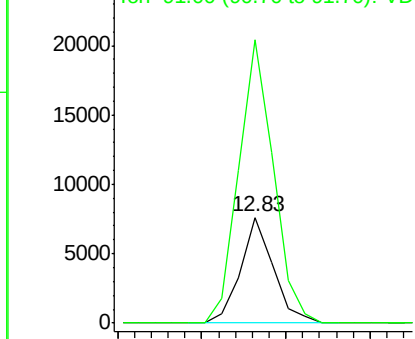
#69
o-Xylene
Concen: 1.358 ug/l
RT: 12.83 min Scan# 1199
Delta R.T. -0.01 min
Lab File: VD060817.D
Acq: 1 Feb 2019 14:14

Instrument :
MSVOA_D
ClientSampleId :
OR-02-013119-B

Tot Ion:106 Resp: 10360
Ion Ratio Lower Upper
106 100
91 267.2 127.6 382.7

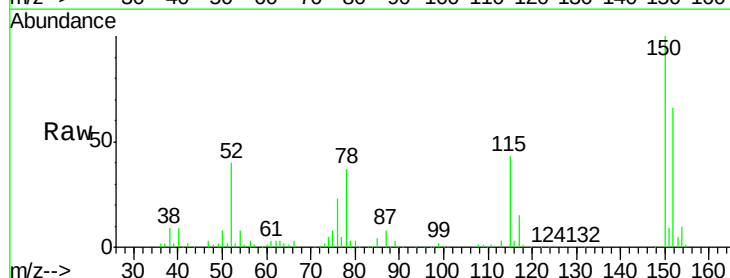


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

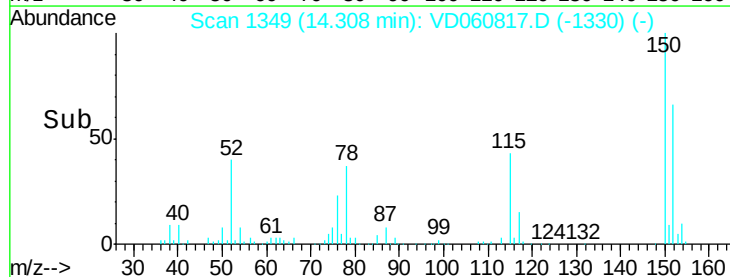
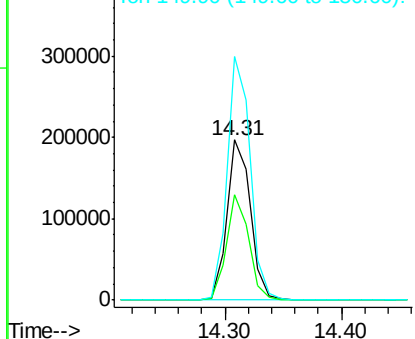


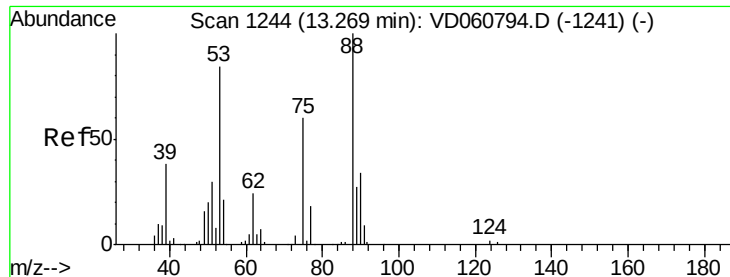
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.31 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VD060817.D
Acq: 1 Feb 2019 14:14

Tgt Ion:152 Resp: 274264
Ion Ratio Lower Upper
152 100
115 65.6 31.6 95.0
150 152.1 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: 116.019 ug/l

RT: 13.34 min Scan# 1251

Delta R.T. 0.07 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

OR-02-013119-B

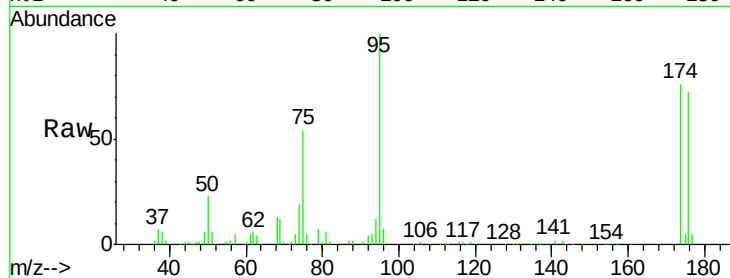
Tot Ion: 75 Resp: 152123

Ion Ratio Lower Upper

75 100

53 0.0 111.6 167.4#

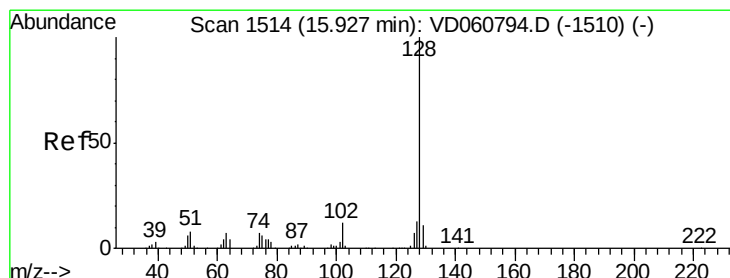
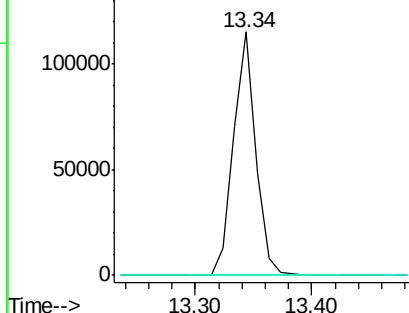
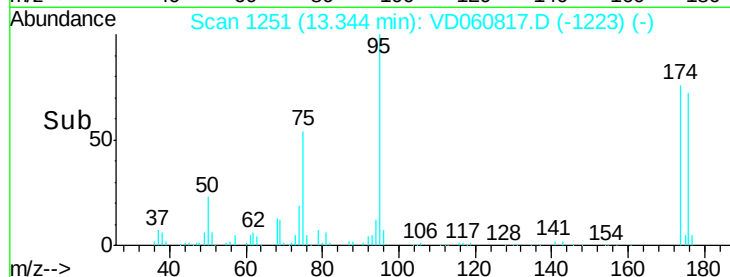
89 0.0 35.9 53.9#



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



#95

Naphthalene

Concen: 3.636 ug/l

RT: 15.92 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VD060817.D

Acq: 1 Feb 2019 14:14

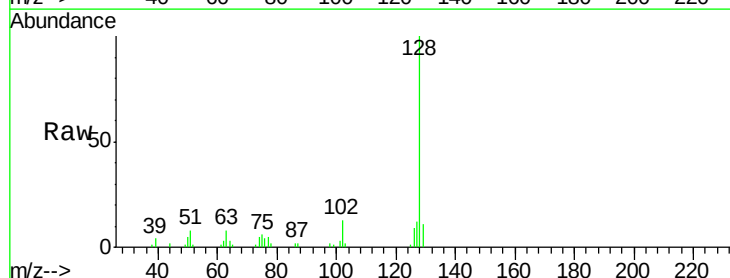
Tgt Ion: 128 Resp: 40374

Ion Ratio Lower Upper

128 100

127 12.1 10.4 15.6

129 11.0 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

