

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061841.D
 Acq On : 17 Apr 2019 7:54
 Operator : VA/AP
 Sample : K2423-13
 Misc : 5.17g/5ml/MSVOA D/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 08:39:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	165741	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	323756	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	304451	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	146074	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	99613	71.71	ug/l	-0.04
Spiked Amount			Recovery	=	143.42%	
35) Dibromofluoromethane	6.93	113	121885	49.83	ug/l	-0.05
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	10.41	98	216055	37.28	ug/l	-0.04
Spiked Amount			Recovery	=	74.56%	
62) 4-Bromofluorobenzene	13.55	95	104740	44.59	ug/l	-0.03
Spiked Amount			Recovery	=	89.18%	

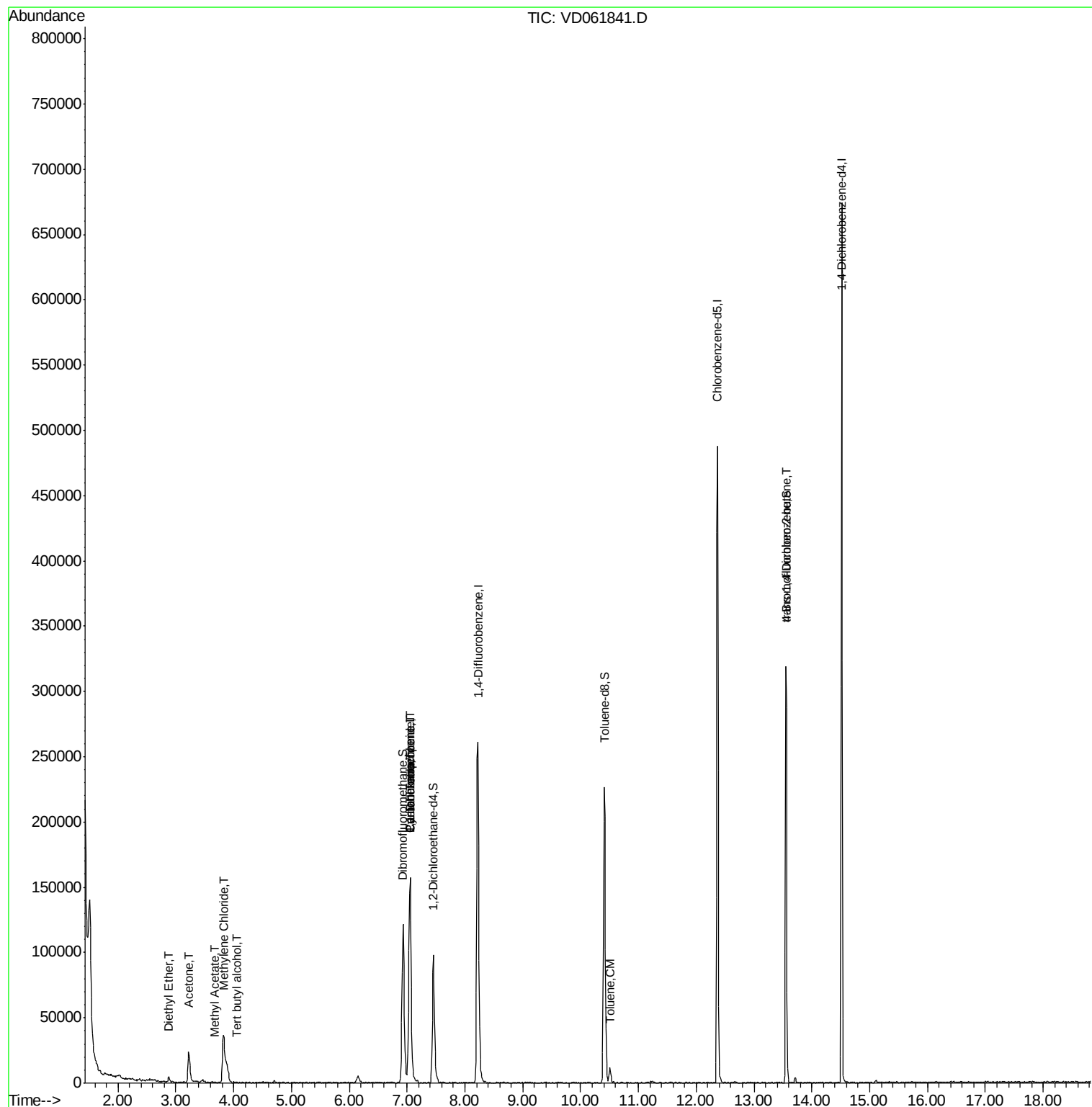
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	184	Below Cal	#	12
8) Diethyl Ether	2.88	74	1696	3.119	ug/l	77
11) Tert butyl alcohol	4.06	59	465	5.677	ug/l #	76
16) Acetone	3.22	43	45352	132.472	ug/l	94
18) Methyl Acetate	3.67	43	741	1.080	ug/l #	53
20) Methylene Chloride	3.82	84	31420	15.278	ug/l	94
31) Cyclohexane	7.04	56	2601	1.236	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	11506	4.349	ug/l #	49
38) Carbon Tetrachloride	7.05	117	15711	4.703	ug/l #	19
52) Toluene	10.51	92	6380	1.567	ug/l	78
81) trans-1,4-Dichloro-2-buten	13.55	75	38879	61.696	ug/l #	16

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

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Quant Time: Apr 17 08:39:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 16 08:53:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

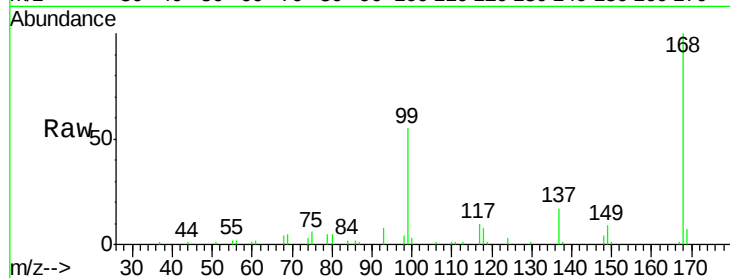
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 165741

Ion Ratio Lower Upper

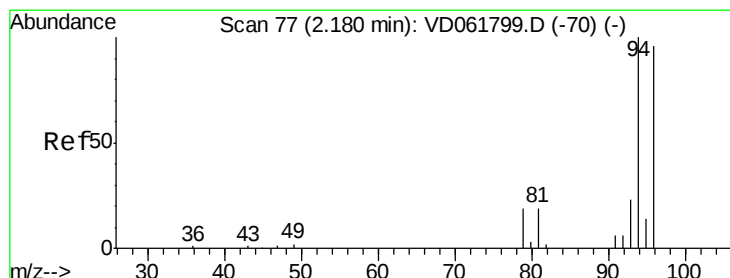
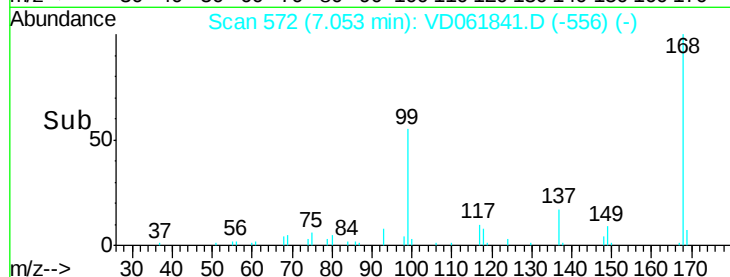
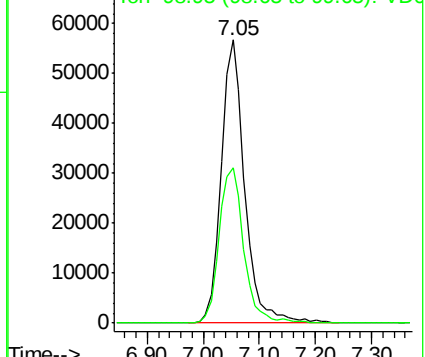
168 100

99 54.9 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: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

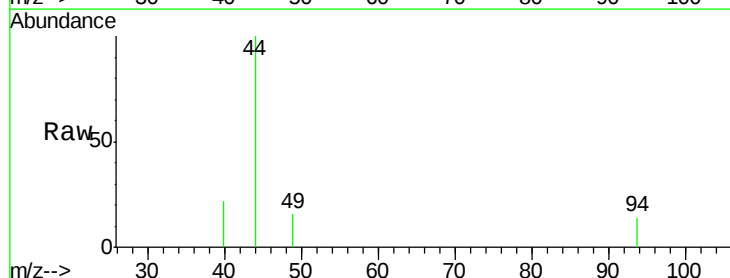
Tgt Ion: 94 Resp: 184

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

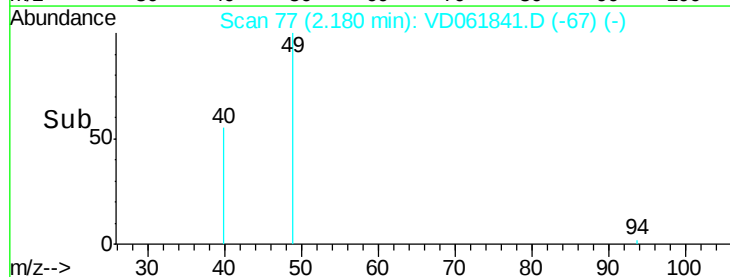
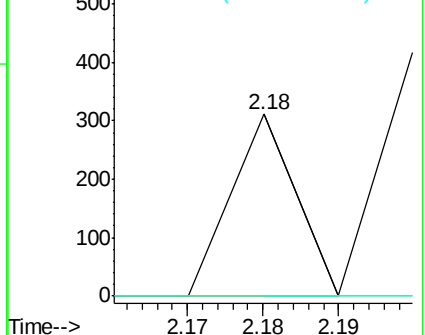
93 0.0 18.5 27.7#

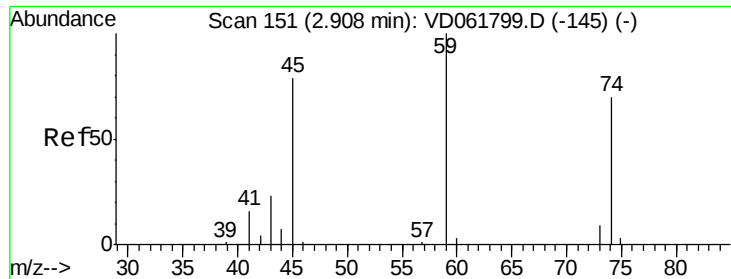


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 3.119 ug/l

RT: 2.88 min Scan# 148

Delta R.T. -0.03 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

Instrument :

MSVOA_D

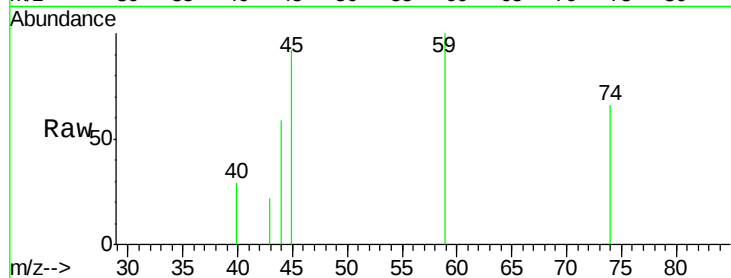
ClientSampleID :

Tot Ion: 74 Resp: 1696

Ion Ratio Lower Upper

74 100

45 138.6 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

1500

1000

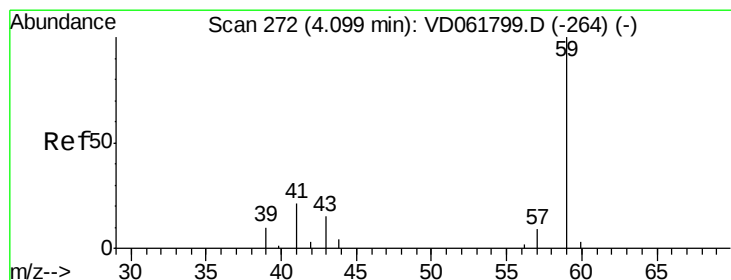
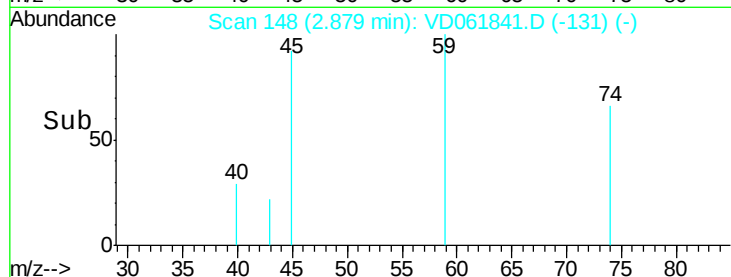
500

0

2.85

2.90

Time-->



#11

Tert butyl alcohol

Concen: 5.677 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.04 min

Lab File: VD061841.D

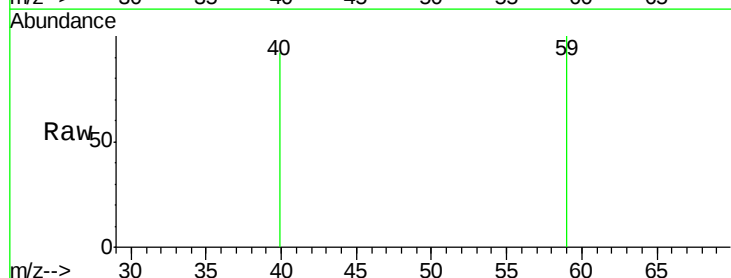
Acq: 17 Apr 2019 7:54

Tgt Ion: 59 Resp: 465

Ion Ratio Lower Upper

59 100

57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

400

300

200

100

0

4.02

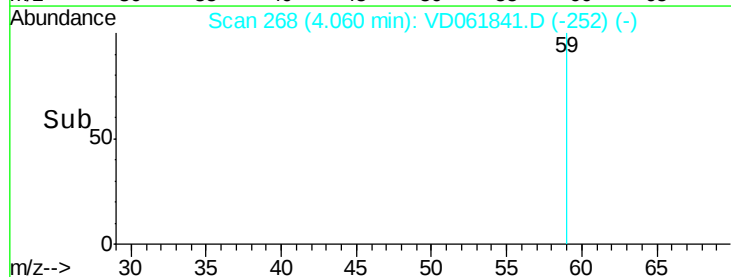
4.04

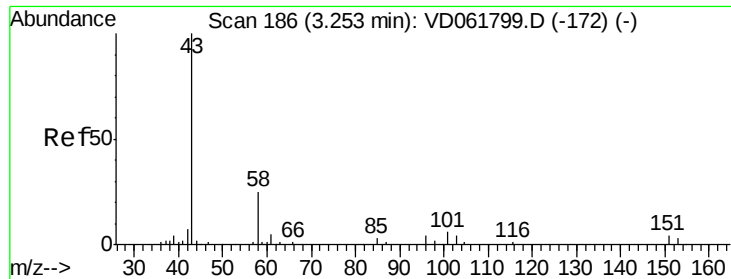
4.06

4.08

4.10

Time-->





#16

Acetone

Concen: 132.472 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.03 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

Instrument :

MSVOA_D

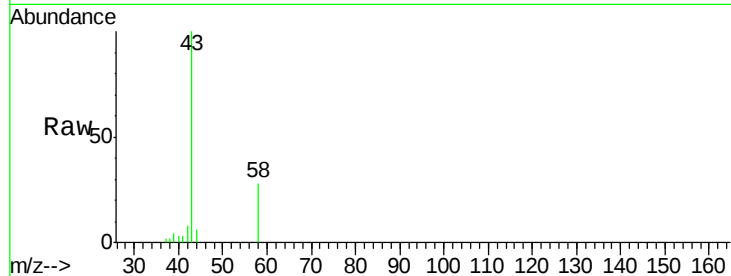
ClientSampleId :

Tot Ion: 43 Resp: 45352

Ion Ratio Lower Upper

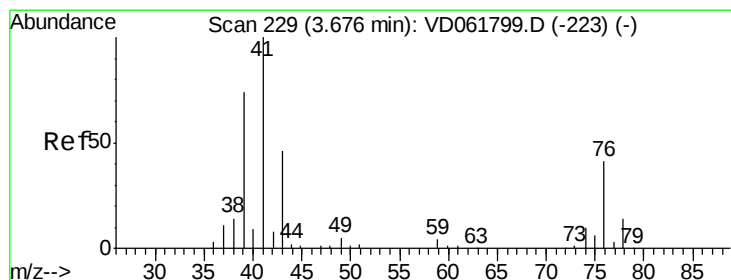
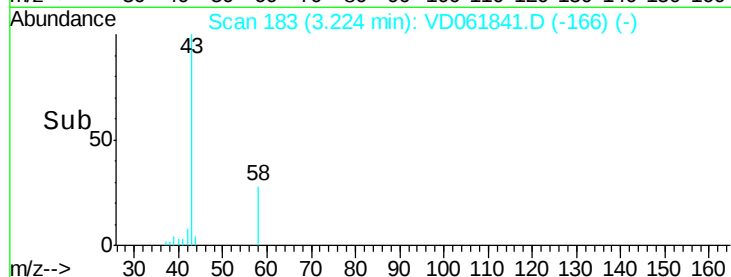
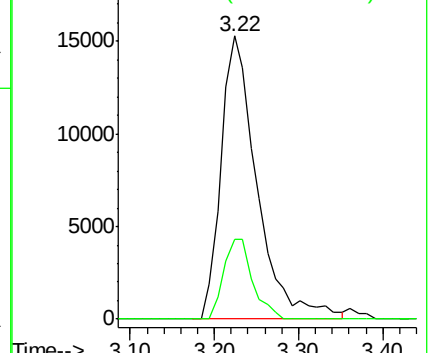
43 100

58 28.1 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.080 ug/l

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VD061841.D

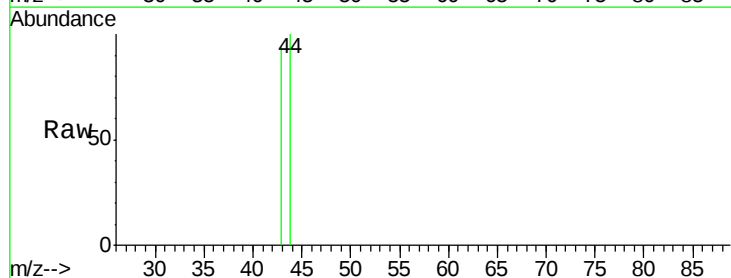
Acq: 17 Apr 2019 7:54

Tgt Ion: 43 Resp: 741

Ion Ratio Lower Upper

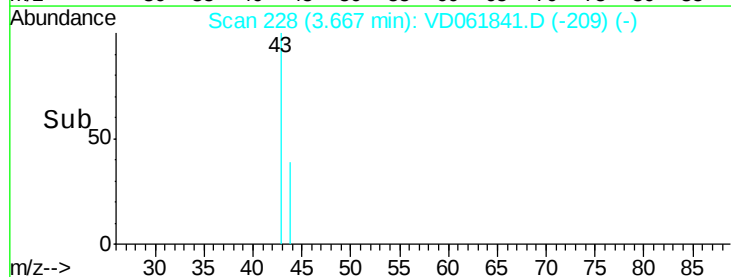
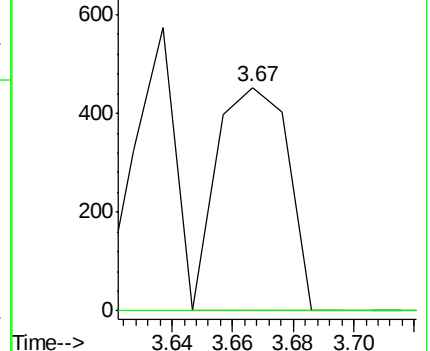
43 100

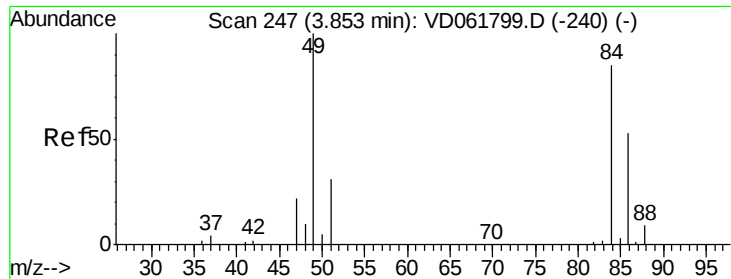
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

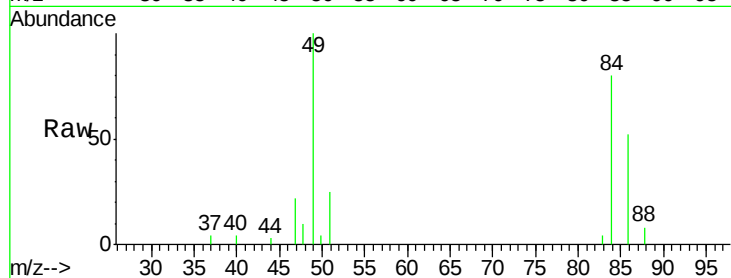




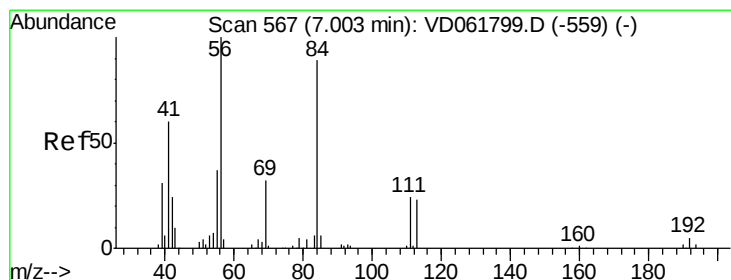
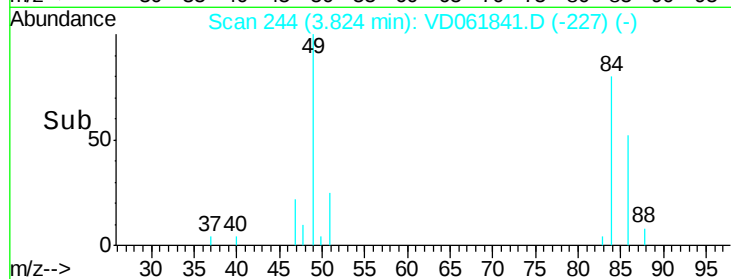
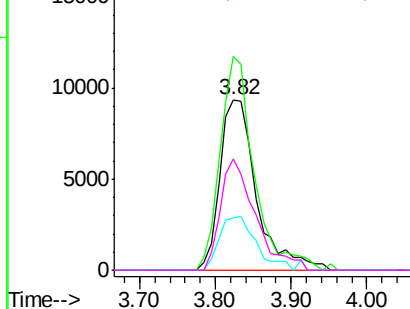
#20
Methylene Chloride
Concen: 15.278 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.03 min
Lab File: VD061841.D
Acq: 17 Apr 2019 7:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 31420
Ion Ratio Lower Upper
84 100
49 125.2 94.0 141.0
51 30.8 29.0 43.4
86 65.1 49.8 74.6

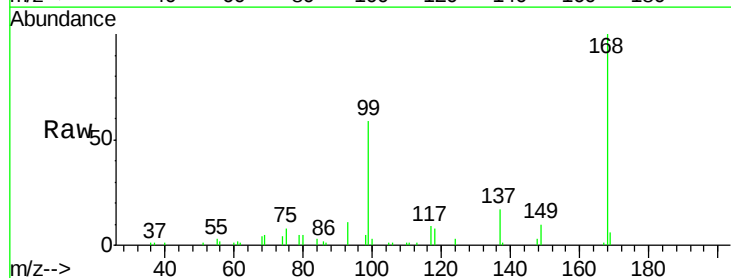


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

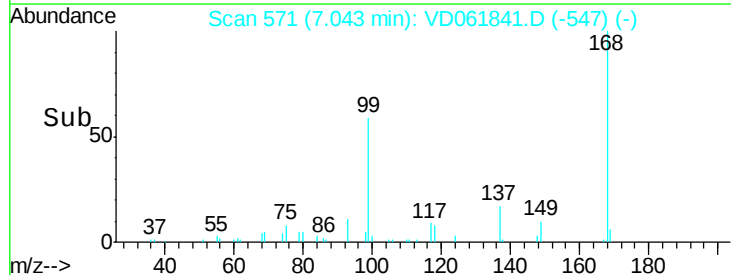
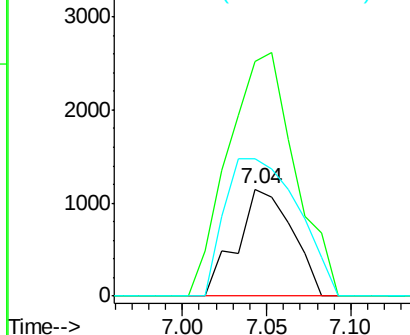


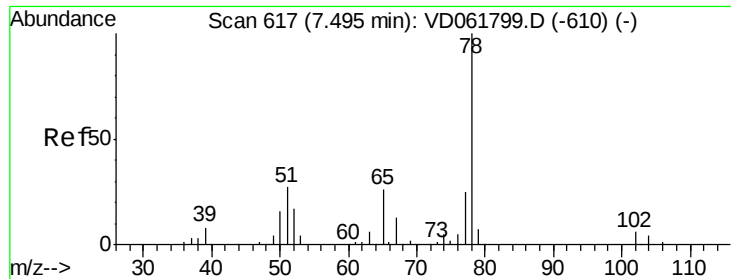
#31
Cyclohexane
Concen: 1.236 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.04 min
Lab File: VD061841.D
Acq: 17 Apr 2019 7:54

Tgt Ion: 56 Resp: 2601
Ion Ratio Lower Upper
56 100
69 219.1 25.8 38.6#
84 129.0 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

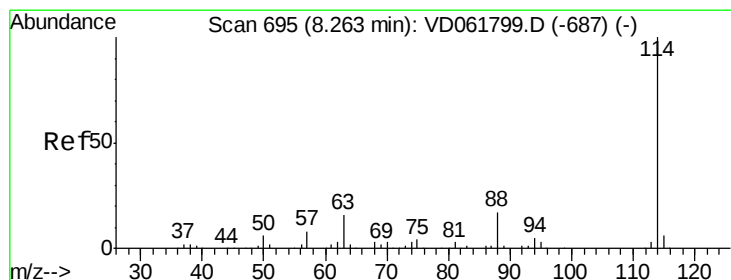
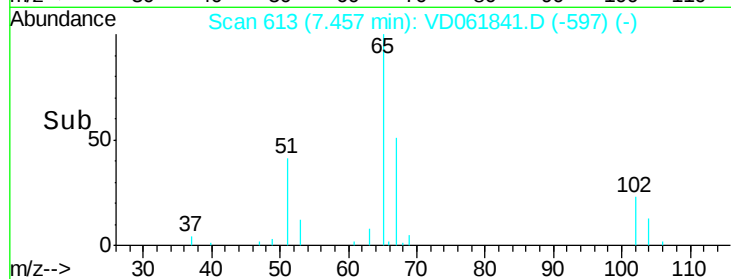
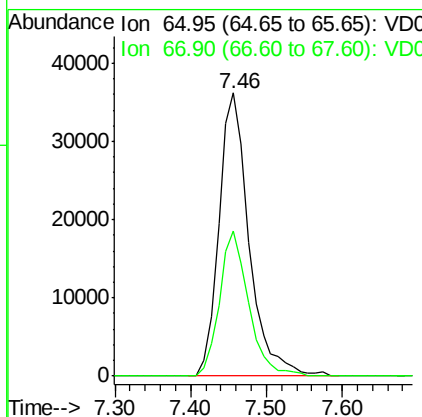
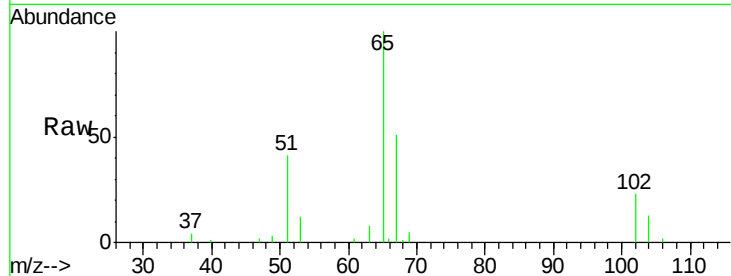




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.04 min
 Lab File: VD061841.D
 Acq: 17 Apr 2019 7:54

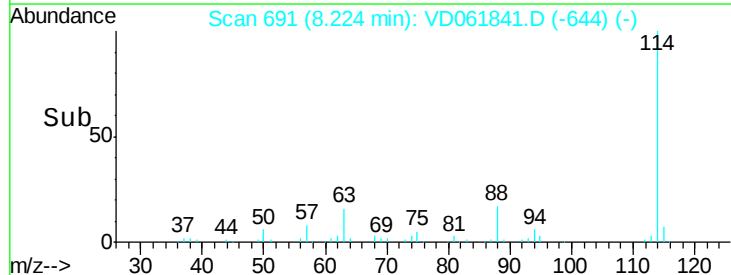
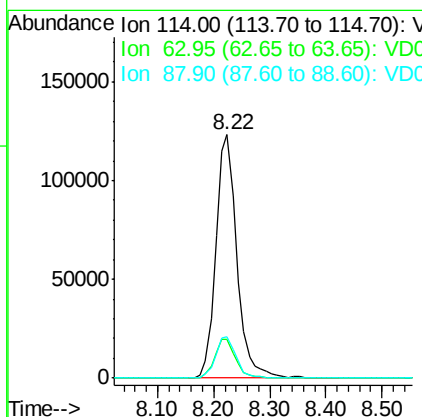
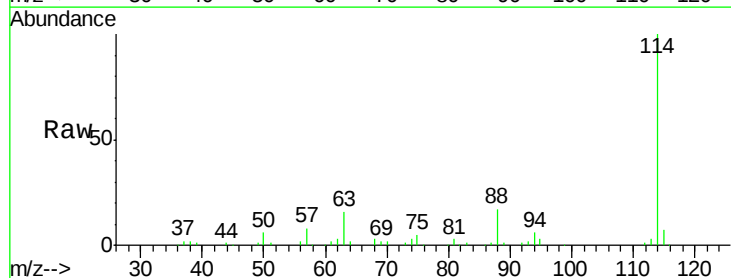
Instrument :
 MSVOA_D
 ClientSampleId :

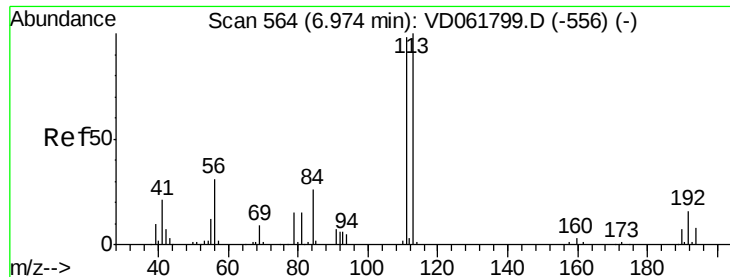
Tot Ion: 65 Resp: 99613
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. -0.04 min
 Lab File: VD061841.D
 Acq: 17 Apr 2019 7:54

Tgt Ion: 114 Resp: 323756
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 32.4
 88 16.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.05 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

Instrument :

MSVOA_D

ClientSampleId :

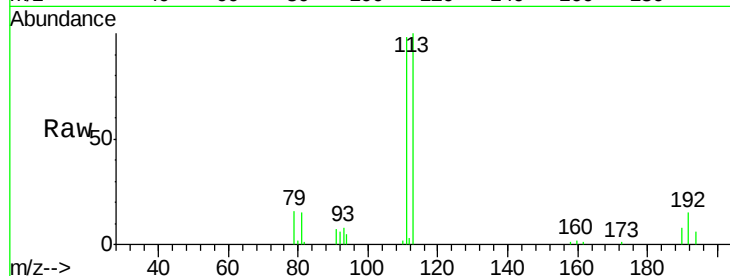
Tot Ion:113 Resp: 121885

Ion Ratio Lower Upper

113 100

111 98.2 78.5 117.7

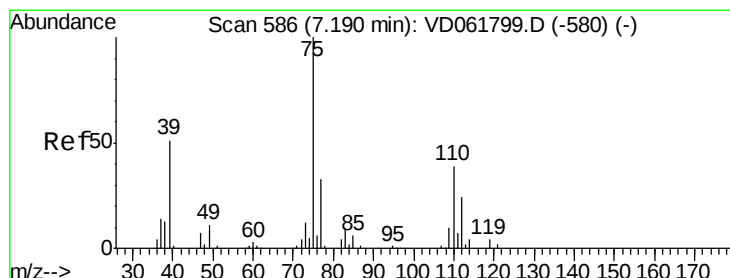
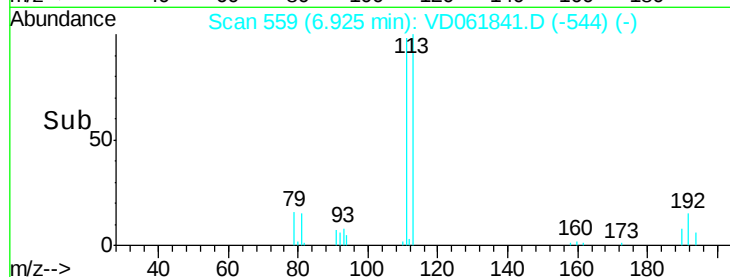
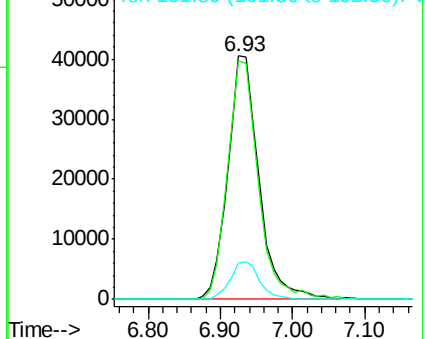
192 14.9 13.0 19.4



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: 4.349 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.15 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

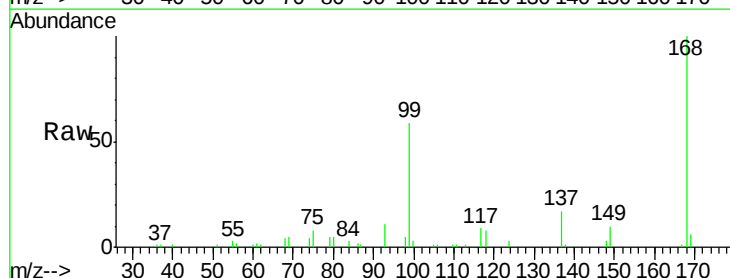
Tgt Ion: 75 Resp: 11506

Ion Ratio Lower Upper

75 100

110 10.5 19.1 57.1#

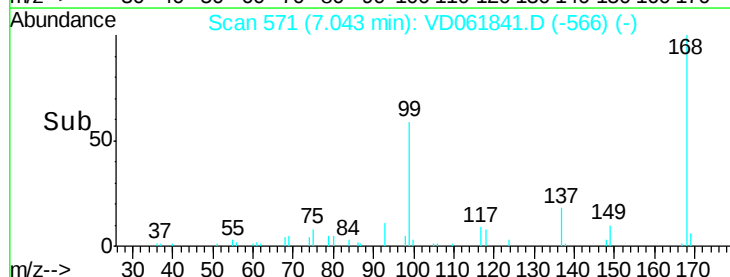
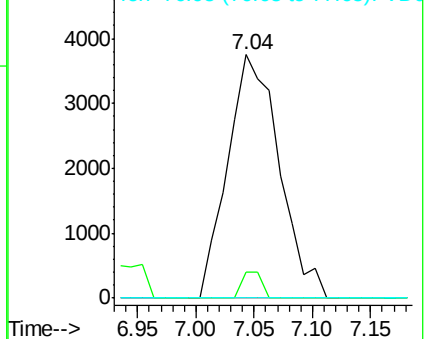
77 0.0 25.6 38.4#

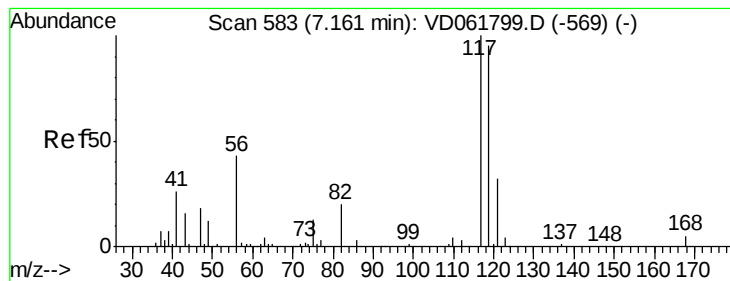


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 4.703 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.11 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

Instrument :
MSVOA_D
ClientSampleId :

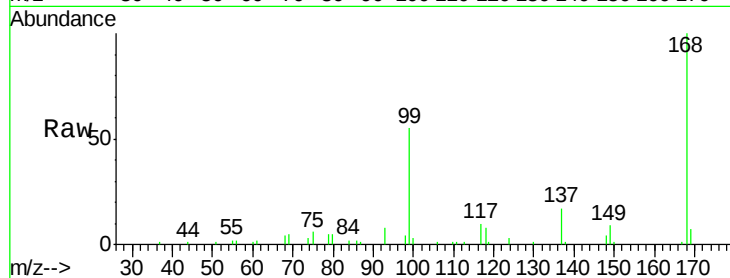
Tot Ion:117 Resp: 15711

Ion Ratio Lower Upper

117 100

119 8.4 75.8 113.8#

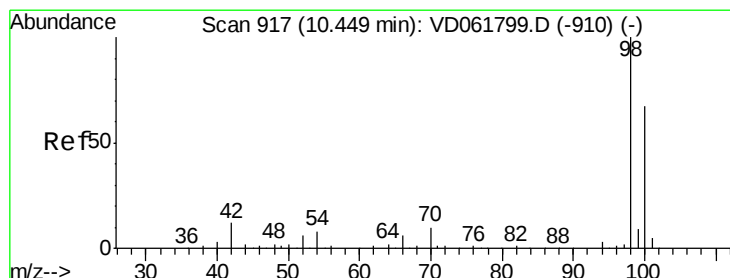
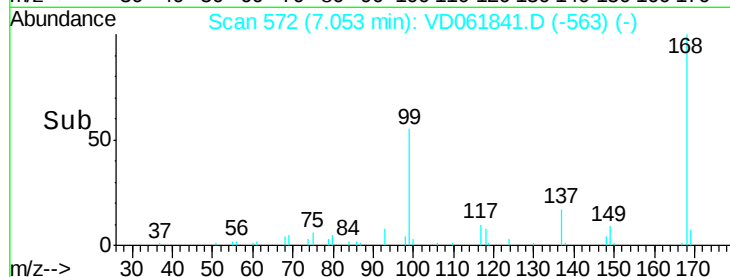
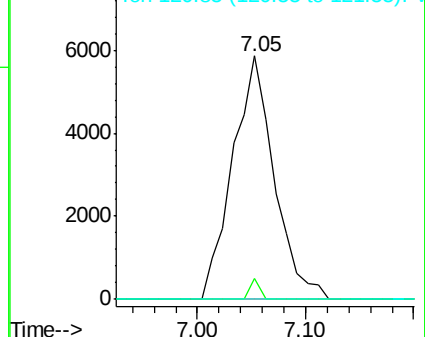
121 0.0 25.9 38.9#



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: 10.41 min Scan# 913

Delta R.T. -0.04 min

Lab File: VD061841.D

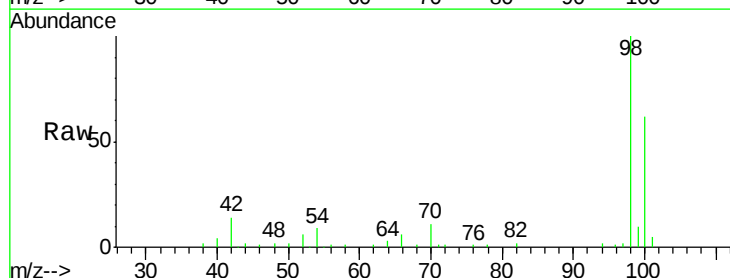
Acq: 17 Apr 2019 7:54

Tgt Ion: 98 Resp: 216055

Ion Ratio Lower Upper

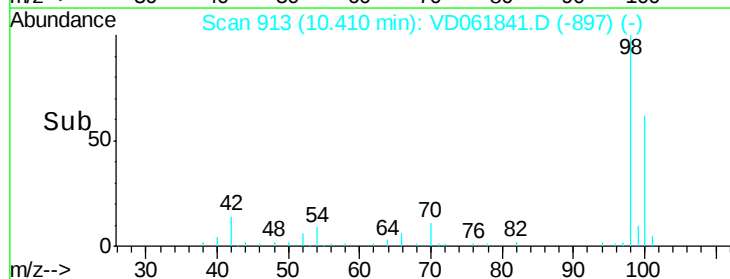
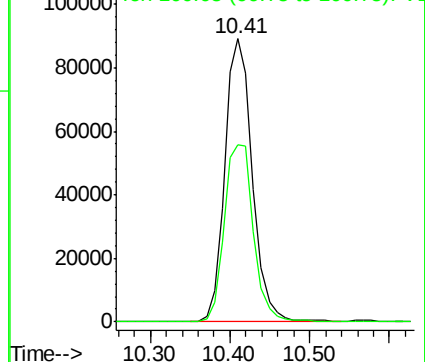
98 100

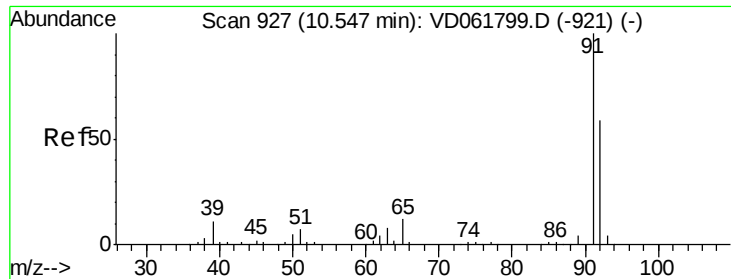
100 62.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

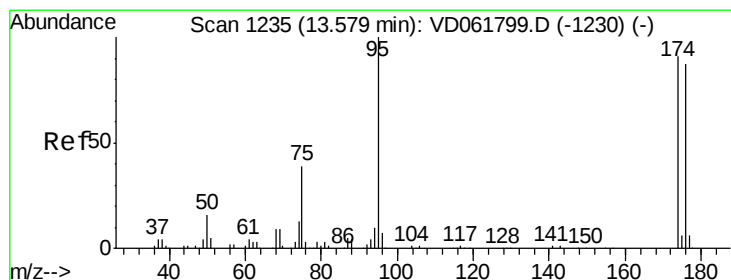
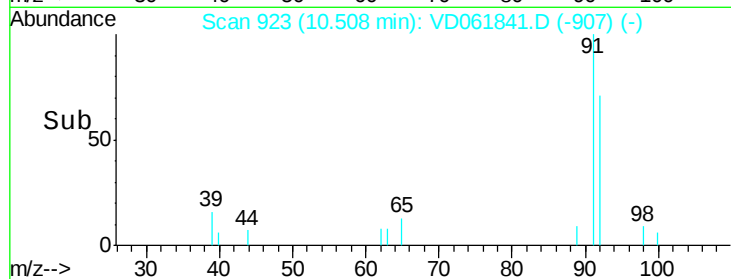
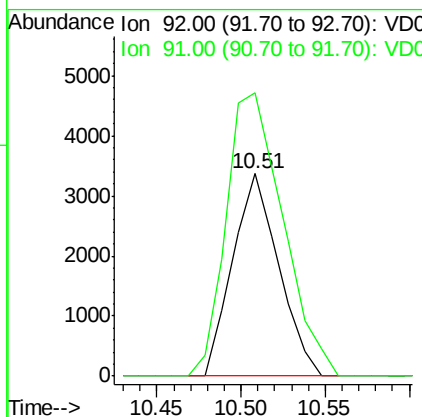
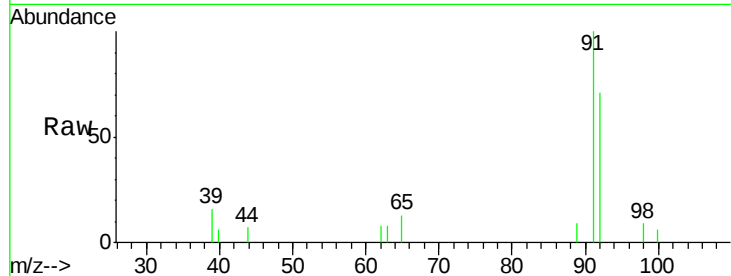




#52
Toluene
Concen: 1.567 ug/l
RT: 10.51 min Scan# 923
Delta R.T. -0.04 min
Lab File: VD061841.D
Acq: 17 Apr 2019 7:54

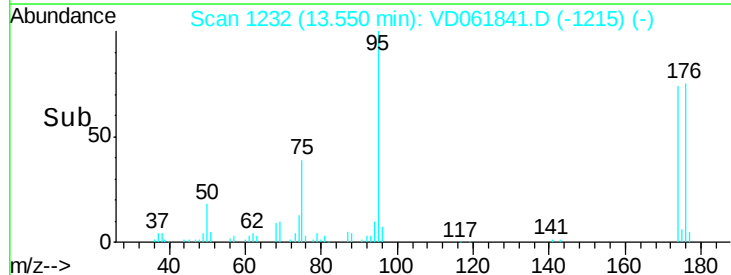
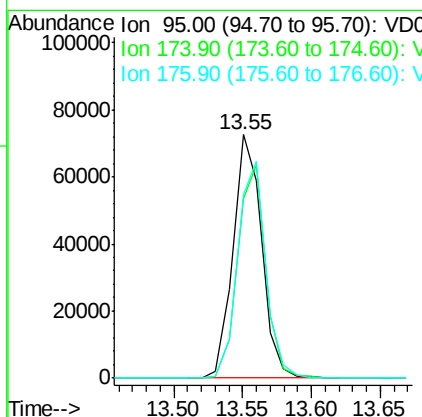
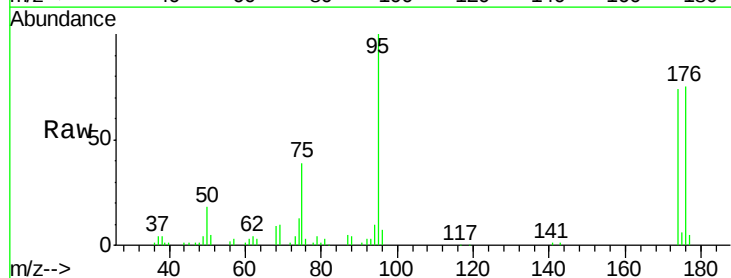
Instrument :
MSVOA_D
ClientSampled :

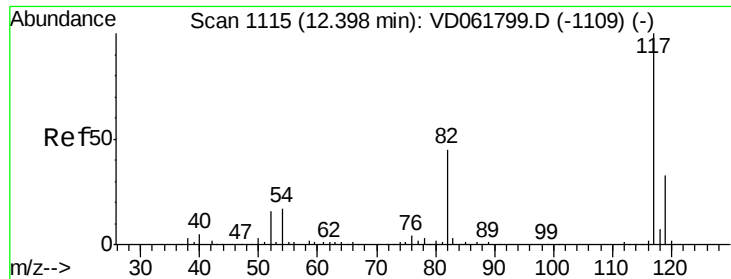
Tot Ion: 92 Resp: 6380
Ion Ratio Lower Upper
92 100
91 139.9 136.6 204.8



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.03 min
Lab File: VD061841.D
Acq: 17 Apr 2019 7:54

Tgt Ion: 95 Resp: 104740
Ion Ratio Lower Upper
95 100
174 73.9 0.0 181.8
176 75.3 0.0 174.4

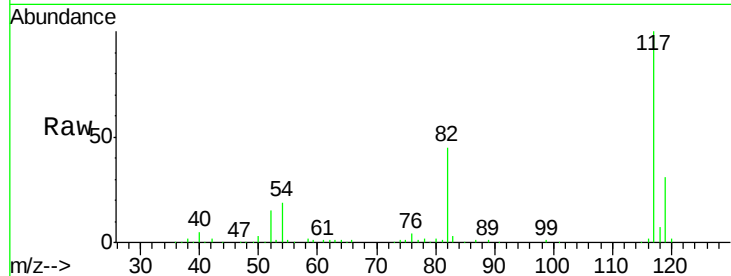




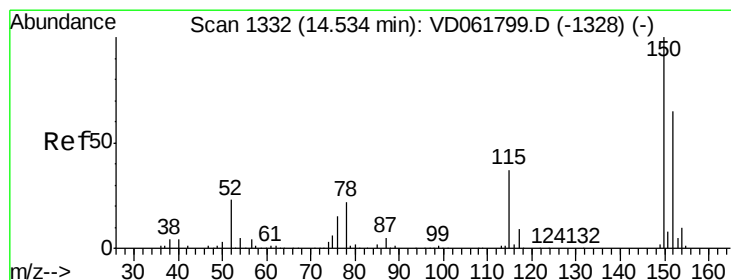
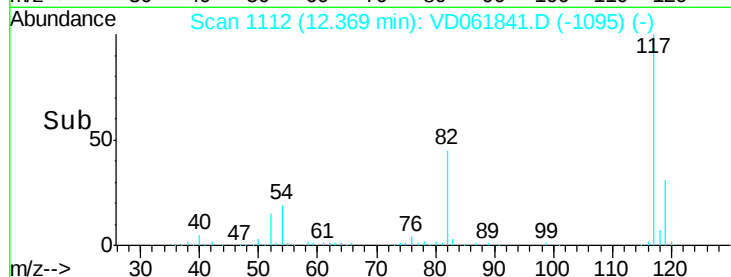
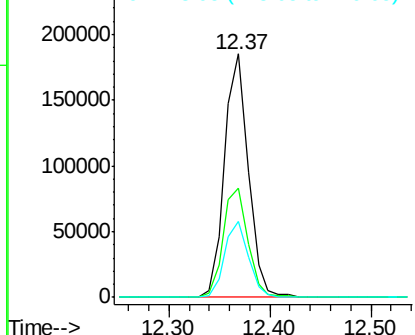
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.03 min
Lab File: VD061841.D
Acq: 17 Apr 2019 7:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 304451
Ion Ratio Lower Upper
117 100
82 44.8 36.2 54.2
119 31.4 26.2 39.4

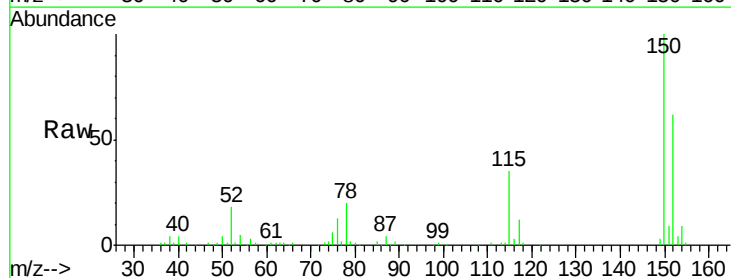


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

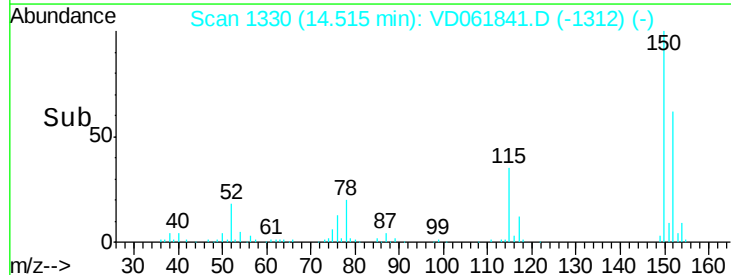
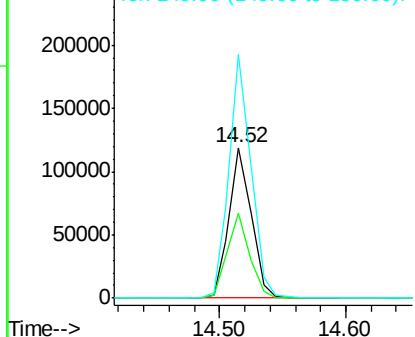


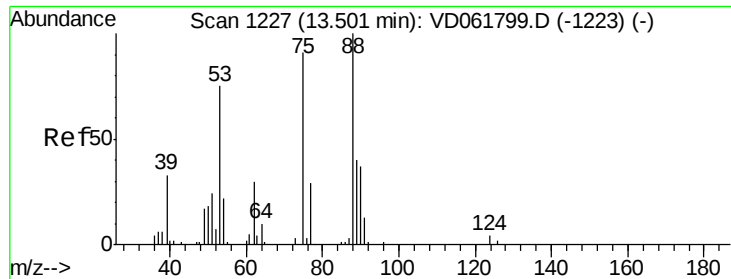
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061841.D
Acq: 17 Apr 2019 7:54

Tgt Ion:152 Resp: 146074
Ion Ratio Lower Upper
152 100
115 56.4 30.9 92.7
150 161.6 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





#81

trans-1,4-Dichloro-2-butene

Concen: 61.696 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061841.D

Acq: 17 Apr 2019 7:54

Instrument :

MSVOA_D

ClientSampleId :

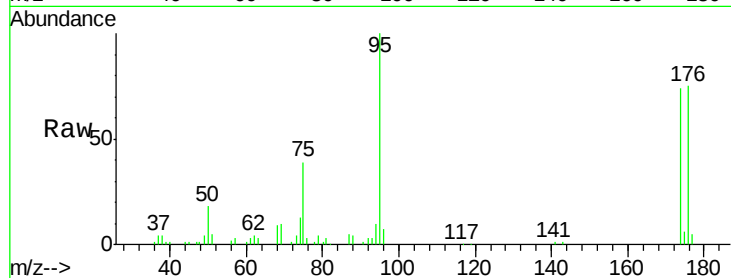
Tot Ion: 75 Resp: 38879

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

