

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122018\
 Data File : VD060665.D
 Acq On : 20 Dec 2018 18:24
 Operator : VA/AP
 Sample : J6481-03
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 21 03:39:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	452904	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	701464	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	612658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	286378	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.78	65	227355	72.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	145.28%	
35) Dibromofluoromethane	6.32	113	242466	47.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.46%	
50) Toluene-d8	9.45	98	526635	34.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.76%	
62) 4-Bromofluorobenzene	12.42	95	217818	40.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.20%	

Target Compounds

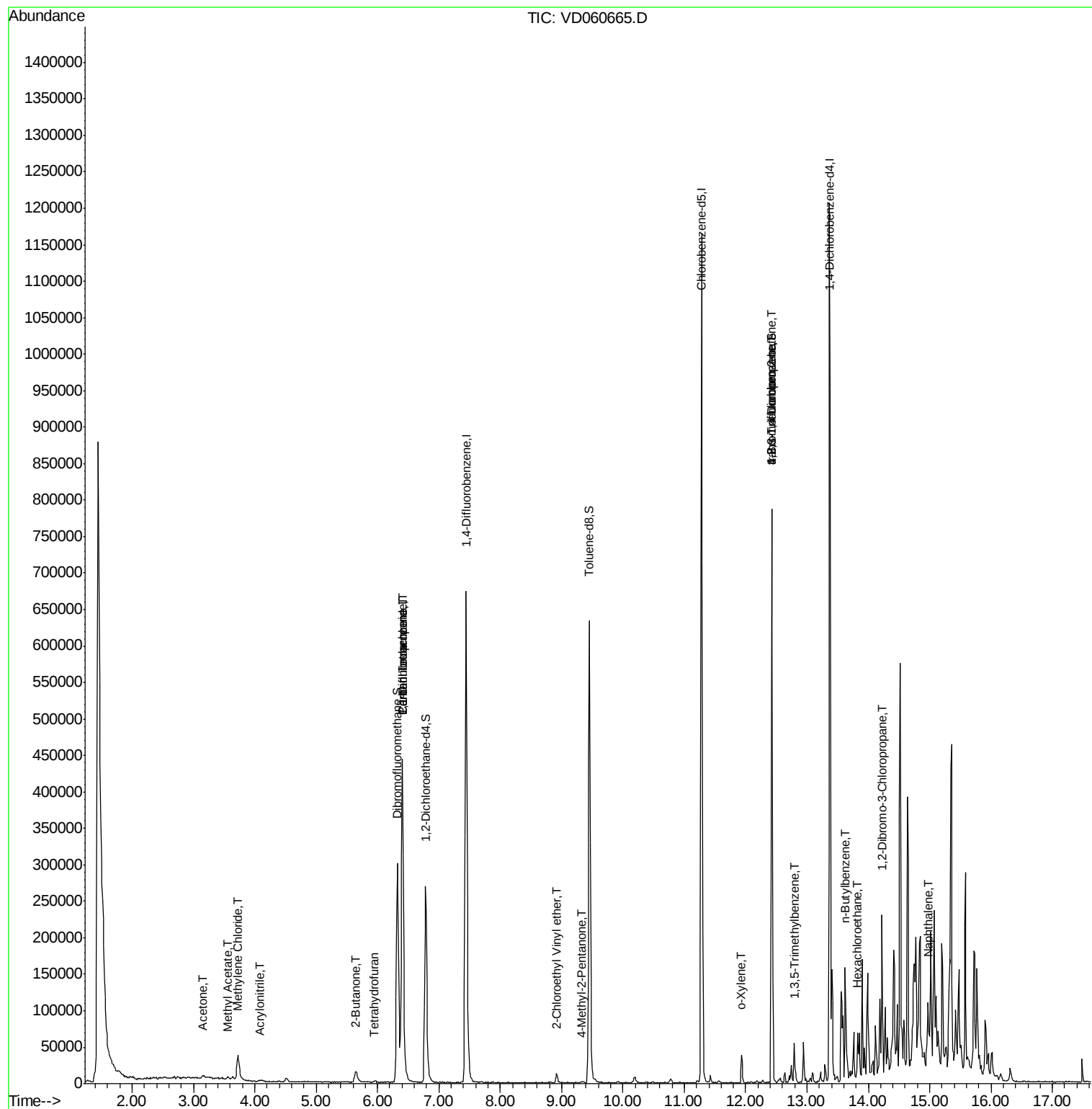
						Qvalue
15) Acrylonitrile	4.08	53	1431	1.884	ug/l #	42
16) Acetone	3.15	43	6621	12.113	ug/l #	90
18) Methyl Acetate	3.56	43	7730	5.706	ug/l #	63
20) Methylene Chloride	3.72	84	22617	3.984	ug/l	93
25) 2-Butanone	5.63	43	2774	2.652	ug/l #	61
29) Tetrahydrofuran	5.96	42	1587	2.676	ug/l #	40
36) 1,1-Dichloropropene	6.41	75	31830	4.407	ug/l #	45
38) Carbon Tetrachloride	6.40	117	35308	5.541	ug/l #	15
51) 4-Methyl-2-Pentanone	9.33	43	2969	1.250	ug/l #	42
58) 2-Chloroethyl Vinyl ether	8.93	63	5515	3.202	ug/l	95
69) o-Xylene	11.93	106	8469	1.054	ug/l	62
76) 1,2,3-Trichloropropane	12.42	75	72838	22.340	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.80	105	25229	1.602	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.42	75	90999	101.007	ug/l #	13
89) n-Butylbenzene	13.62	91	22645	1.256	ug/l #	1
90) Hexachloroethane	13.82	117	4829	1.114	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.22	75	1070	2.756	ug/l #	2
95) Naphthalene	14.97	128	44528	5.940	ug/l	97

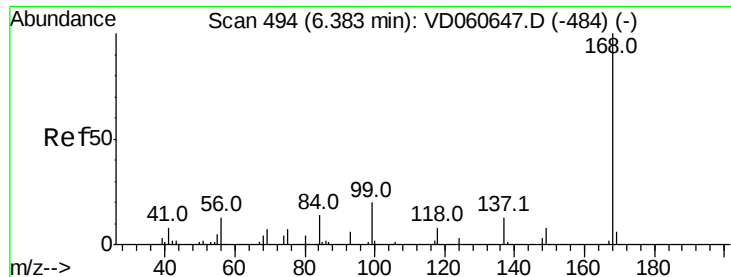
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 21 03:34:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.00 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

Instrument :

MSVOA_D

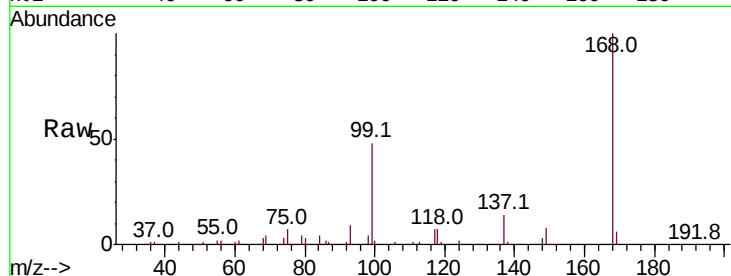
ClientSampled :

Tot Ion:168 Resp: 452904

Ion Ratio Lower Upper

168 100

99 48.1 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

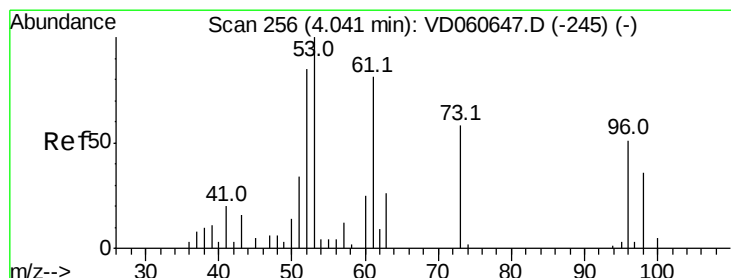
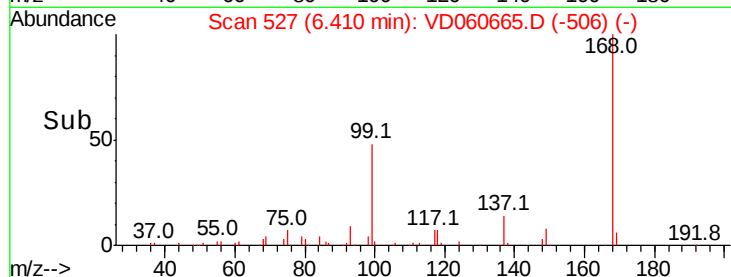
150000

100000

50000

0

Time-->



#15

Acrylonitrile

Concen: 1.884 ug/l

RT: 4.08 min Scan# 290

Delta R.T. -0.02 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

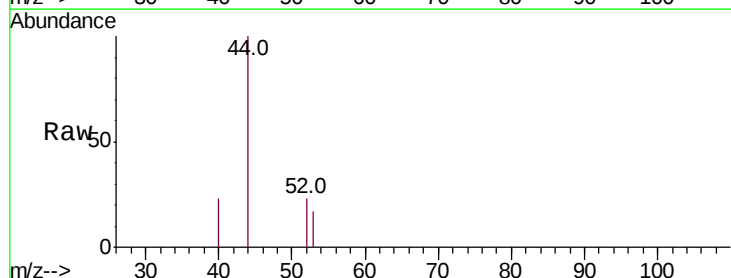
Tgt Ion: 53 Resp: 1431

Ion Ratio Lower Upper

53 100

52 131.8 66.7 100.1#

51 0.0 32.7 49.1#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

800

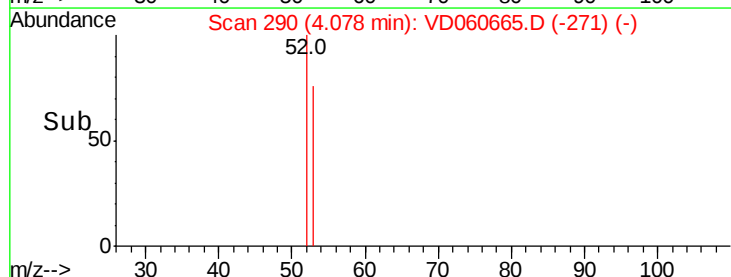
600

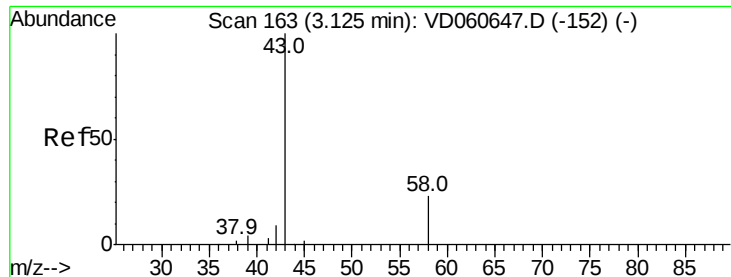
400

200

0

Time-->





#16

Acetone

Concen: 12.113 ug/l

RT: 3.15 min Scan# 196

Delta R.T. -0.02 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

Instrument :

MSVOA_D

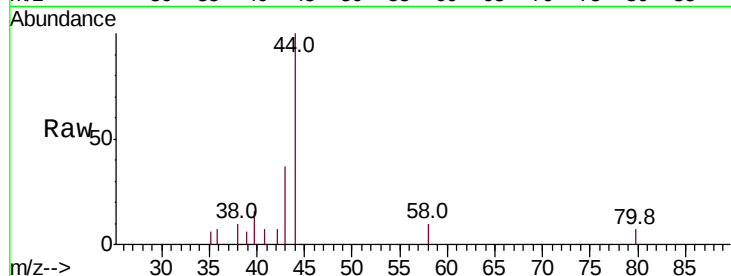
ClientSampleId :

Tot Ion: 43 Resp: 6621

Ion Ratio Lower Upper

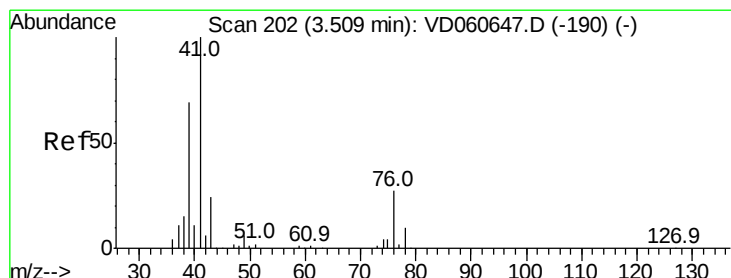
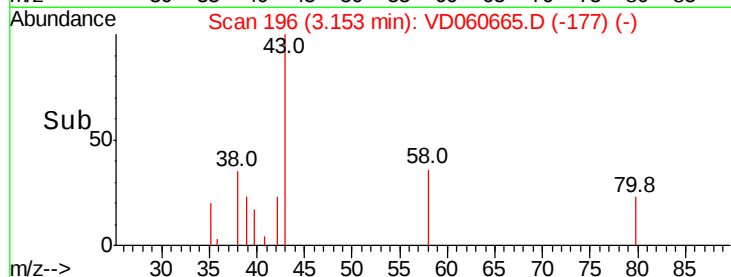
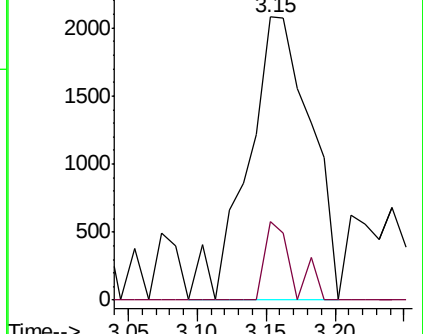
43 100

58 27.6 18.2 27.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 5.706 ug/l

RT: 3.56 min Scan# 237

Delta R.T. -0.01 min

Lab File: VD060665.D

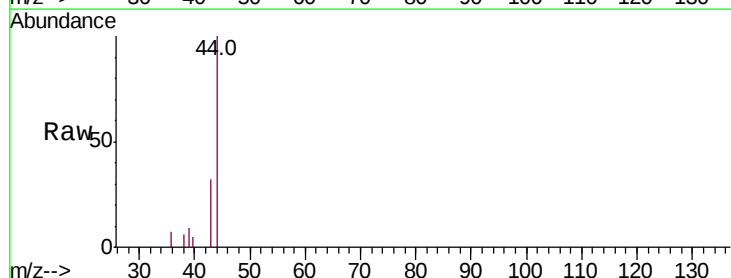
Acq: 20 Dec 2018 18:24

Tgt Ion: 43 Resp: 7730

Ion Ratio Lower Upper

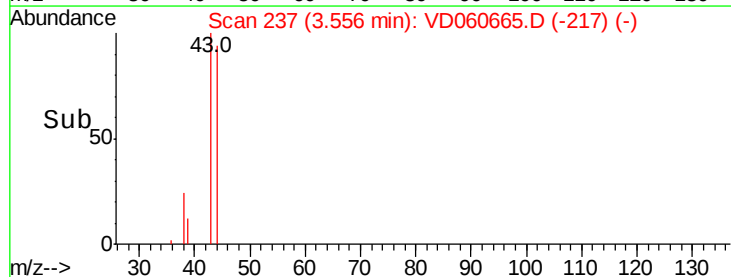
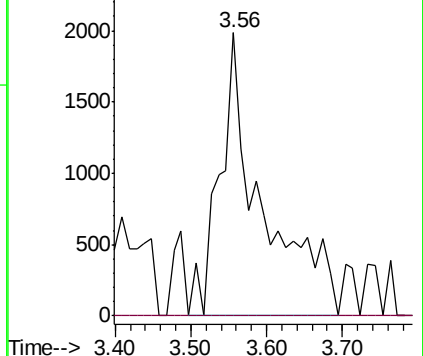
43 100

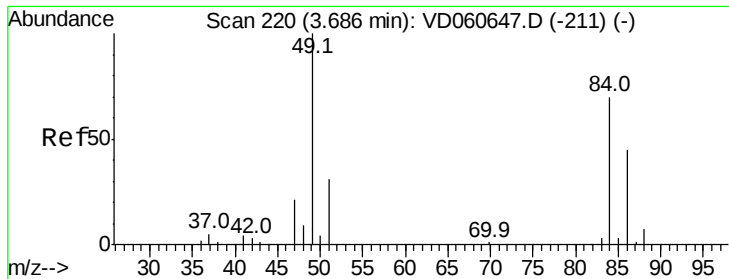
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

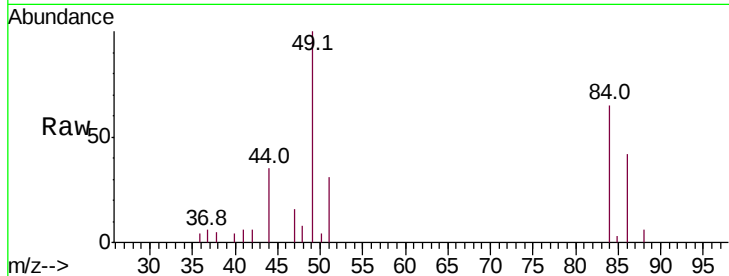




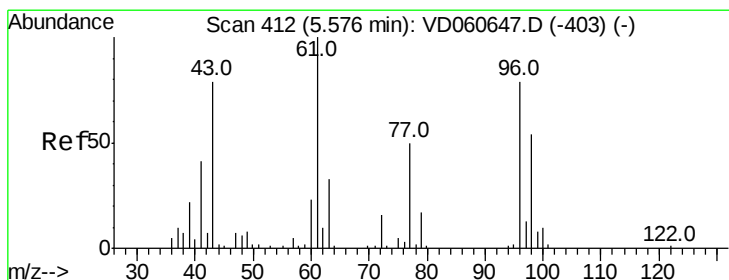
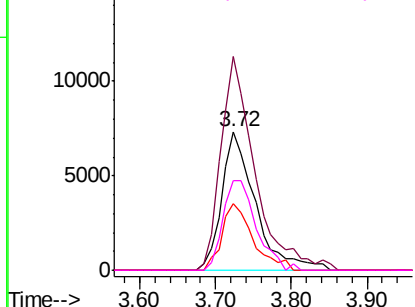
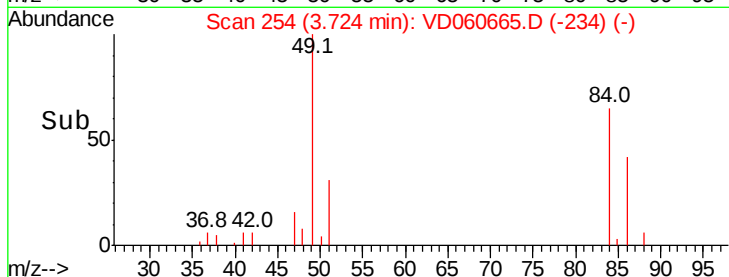
#20
Methvlene Chloride
Concen: 3.984 ug/l
RT: 3.72 min Scan# 254
Delta R.T. -0.01 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 22617
Ion Ratio Lower Upper
84 100
49 153.9 113.6 170.4
51 47.7 34.7 52.1
86 64.5 52.8 79.2

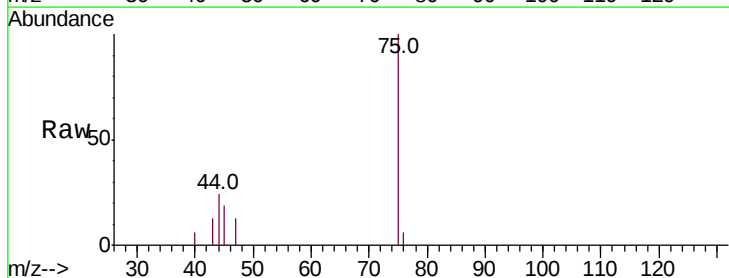


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

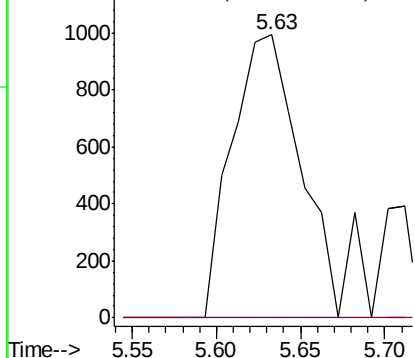
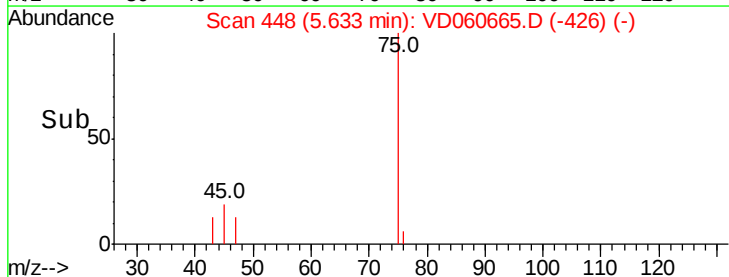


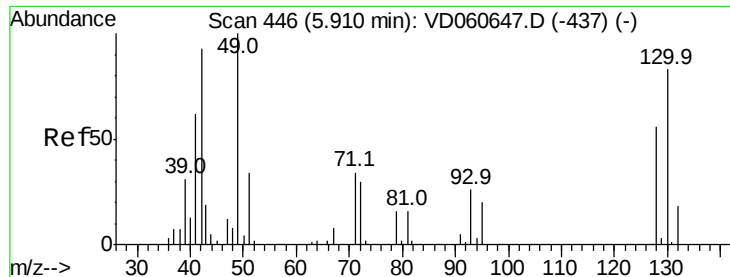
#25
2-Butanone
Concen: 2.652 ug/l
RT: 5.63 min Scan# 448
Delta R.T. 0.01 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Tgt Ion: 43 Resp: 2774
Ion Ratio Lower Upper
43 100
72 0.0 13.7 20.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 2.676 ug/l

RT: 5.96 min Scan# 481

Delta R.T. 0.00 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

Instrument :
MSVOA_D
ClientSampled :

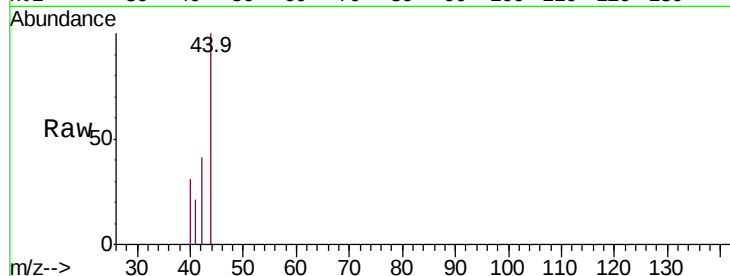
Tot Ion: 42 Resp: 1587

Ion Ratio Lower Upper

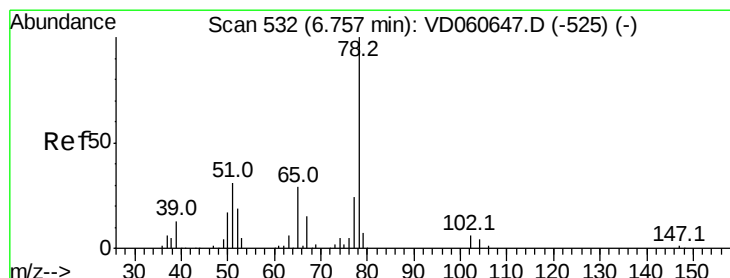
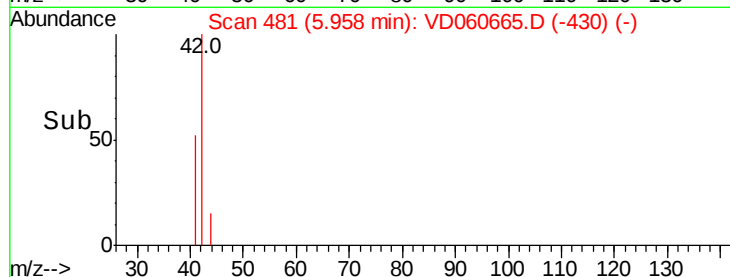
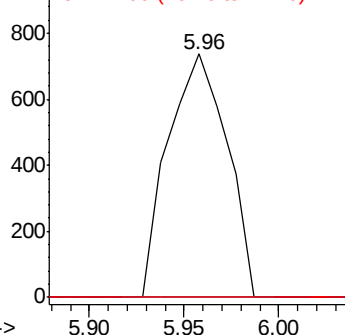
42 100

72 0.0 28.0 42.0#

71 0.0 27.0 40.6#



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: 6.78 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD060665.D

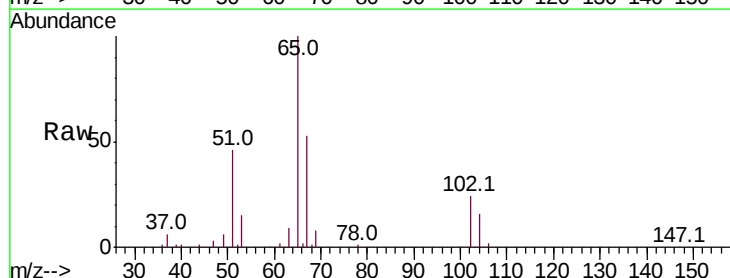
Acq: 20 Dec 2018 18:24

Tgt Ion: 65 Resp: 227355

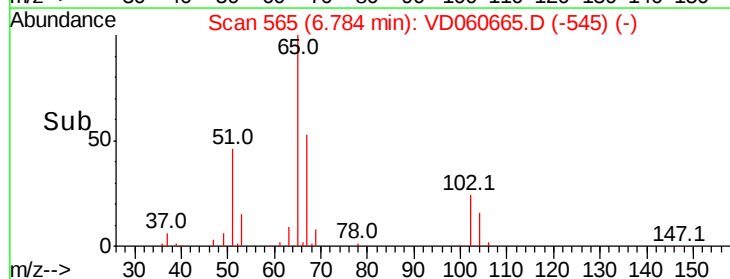
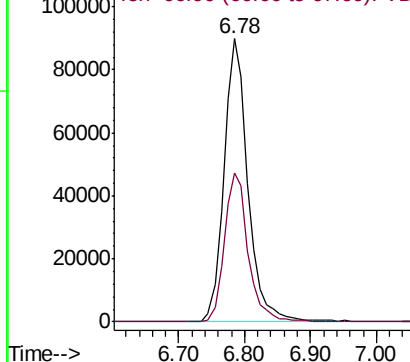
Ion Ratio Lower Upper

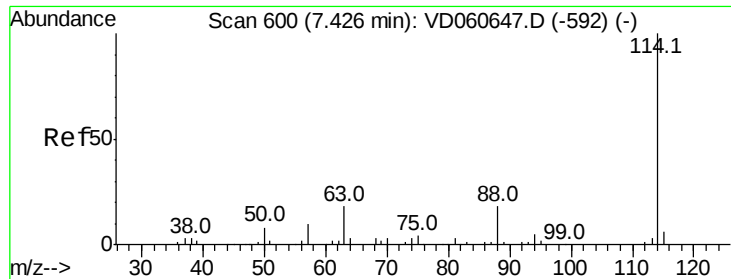
65 100

67 52.7 0.0 105.4



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

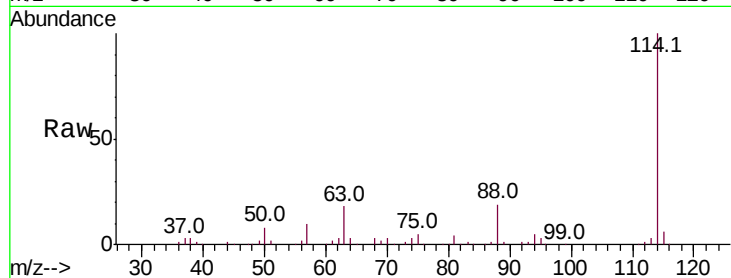




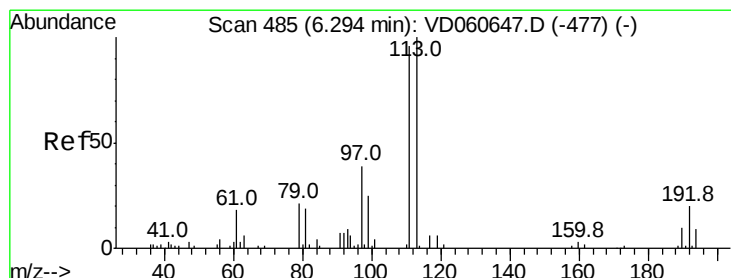
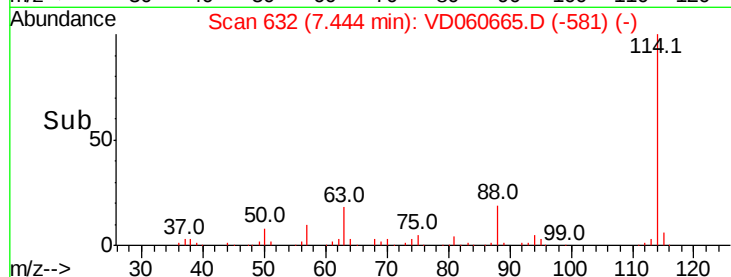
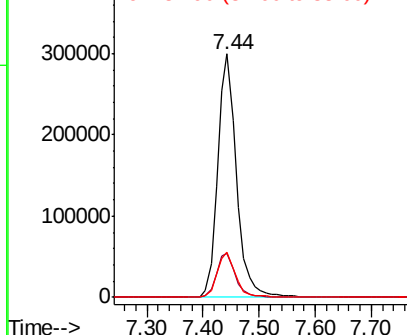
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VD060665.D
 Acq: 20 Dec 2018 18:24

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 701464
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.2
 88 18.7 0.0 37.0

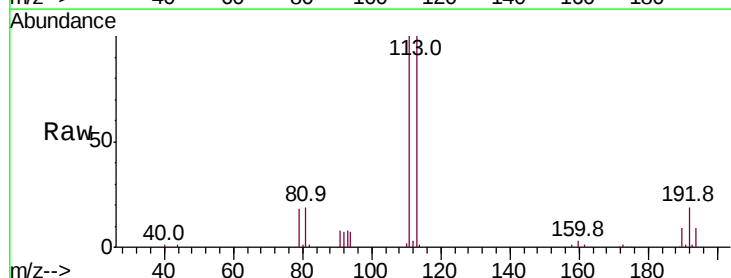


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

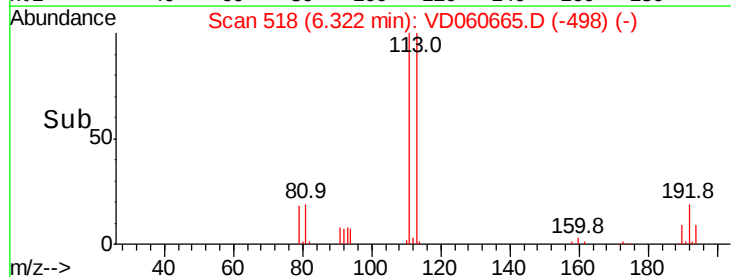
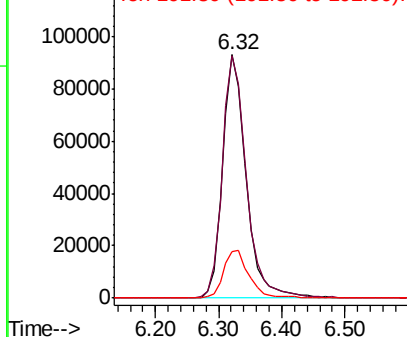


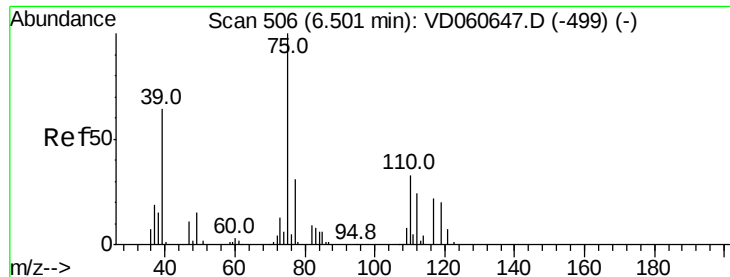
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 518
 Delta R.T. -0.01 min
 Lab File: VD060665.D
 Acq: 20 Dec 2018 18:24

Tgt Ion:113 Resp: 242466
 Ion Ratio Lower Upper
 113 100
 111 99.8 80.0 120.0
 192 19.0 16.6 25.0



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





#36

1,1-Dichloropropene

Concen: 4.407 ug/l

RT: 6.41 min Scan# 527

Delta R.T. -0.12 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

Instrument :

MSVOA_D

ClientSampleId :

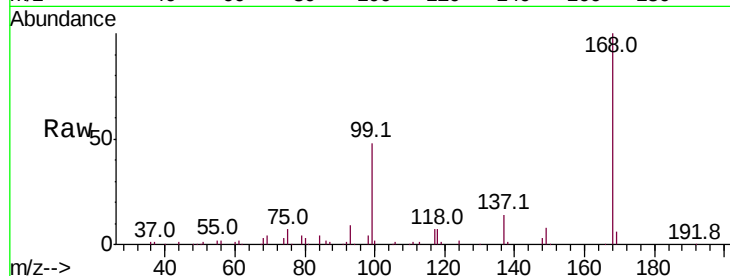
Tot Ion: 75 Resp: 31830

Ion Ratio Lower Upper

75 100

110 5.3 18.9 56.7#

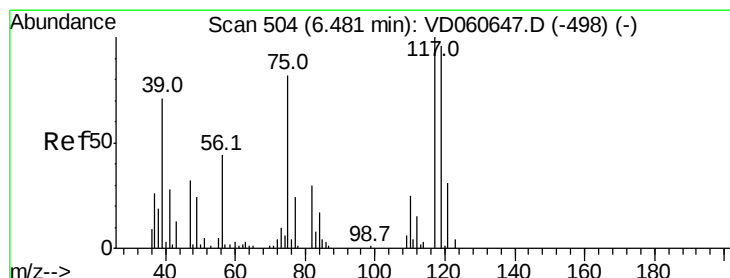
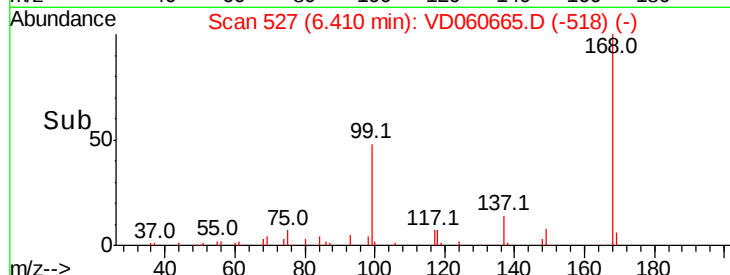
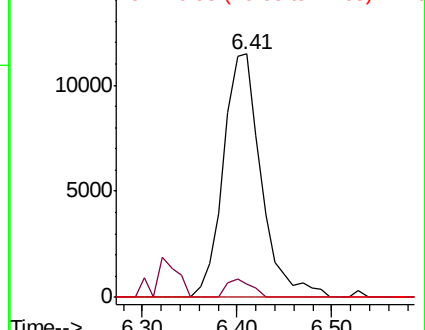
77 0.0 25.4 38.0#



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: 5.541 ug/l

RT: 6.40 min Scan# 526

Delta R.T. -0.10 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

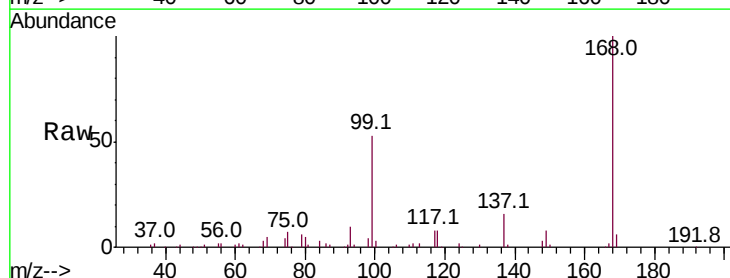
Tgt Ion: 117 Resp: 35308

Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.4#

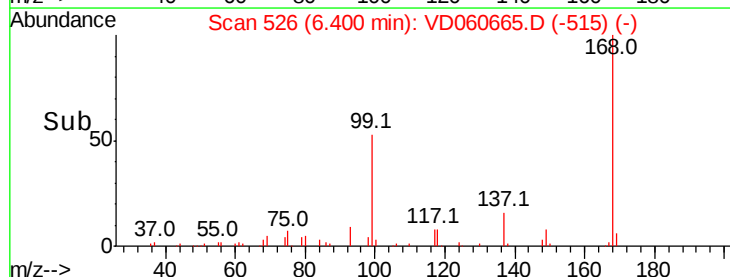
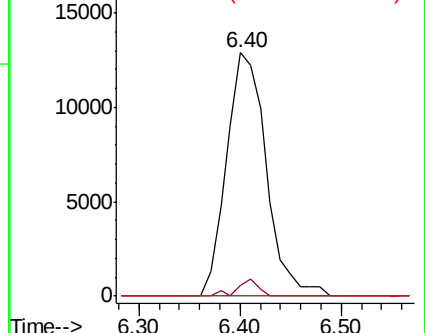
121 0.0 24.7 37.1#

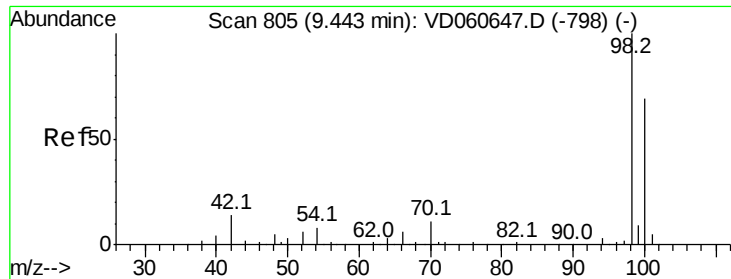


Abundance Ion 116.85 (116.55 to 117.55): V

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: 9.45 min Scan# 836

Delta R.T. -0.01 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

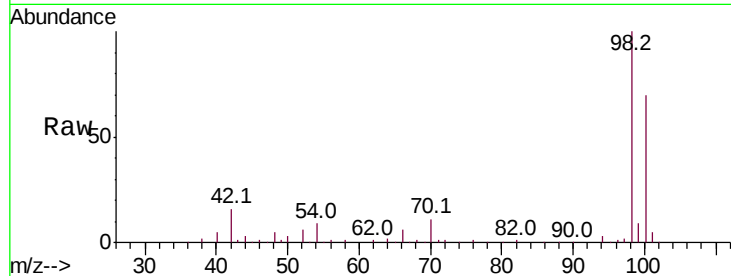
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 526635

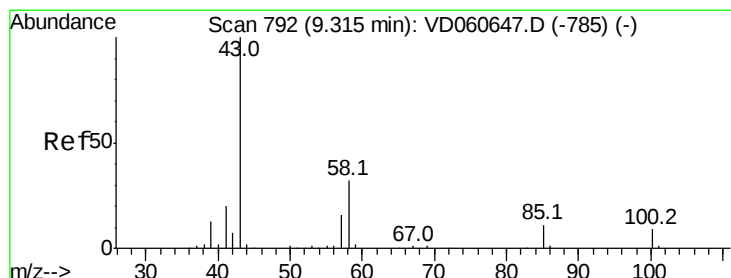
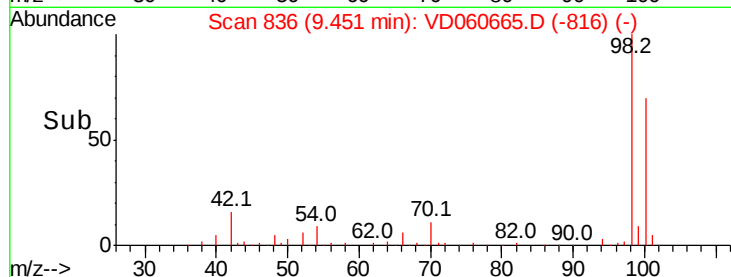
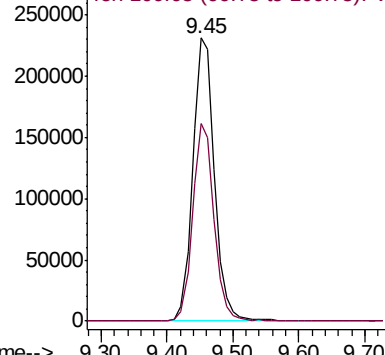
Ion Ratio Lower Upper

98 100

100 69.7 55.8 83.8



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



#51

4-Methyl-2-Pentanone

Concen: 1.250 ug/l

RT: 9.33 min Scan# 824

Delta R.T. -0.01 min

Lab File: VD060665.D

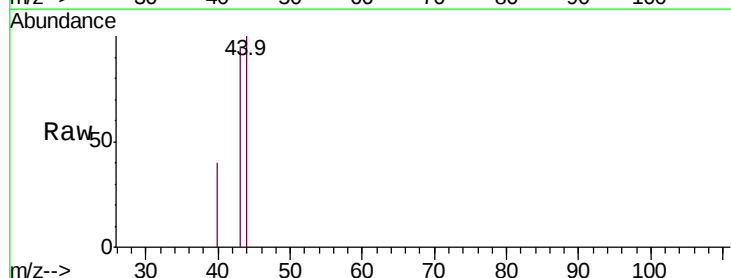
Acq: 20 Dec 2018 18:24

Tgt Ion: 43 Resp: 2969

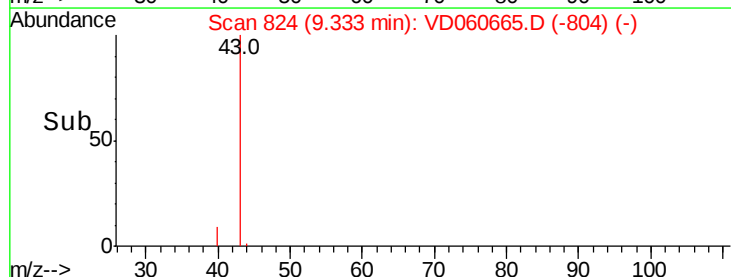
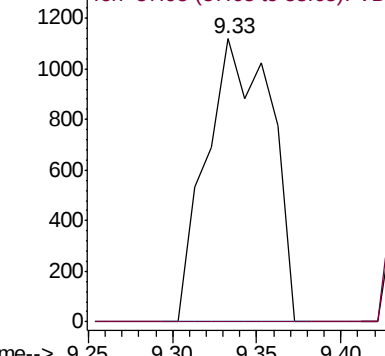
Ion Ratio Lower Upper

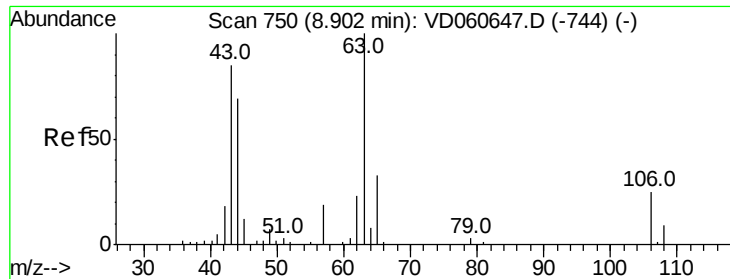
43 100

58 0.0 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

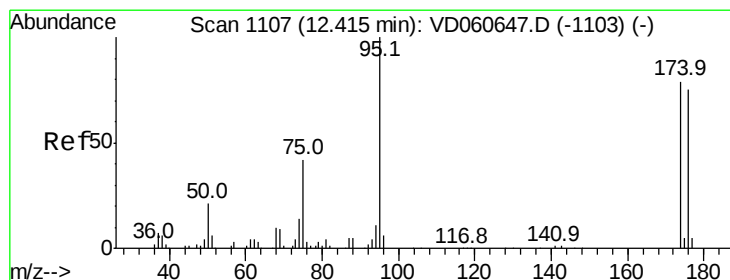
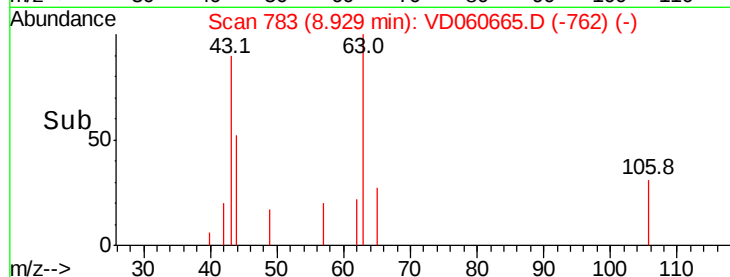
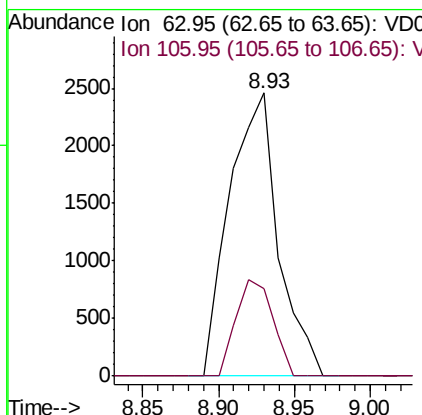
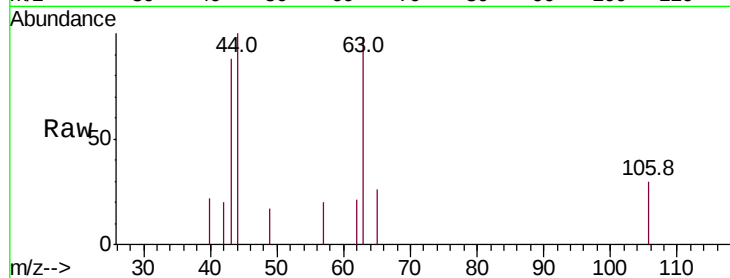




#58
 2-Chloroethyl Vinyl ether
 Concen: 3.202 ug/l
 RT: 8.93 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: VD060665.D
 Acq: 20 Dec 2018 18:24

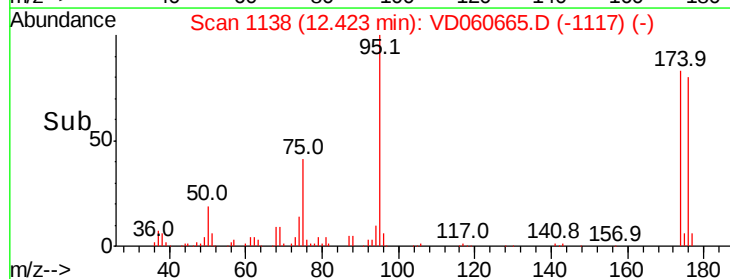
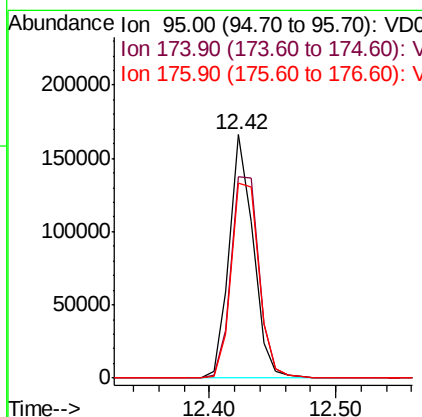
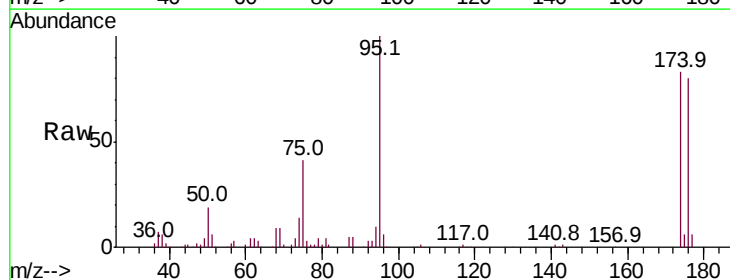
Instrument :
 MSVOA_D
 ClientSampled :

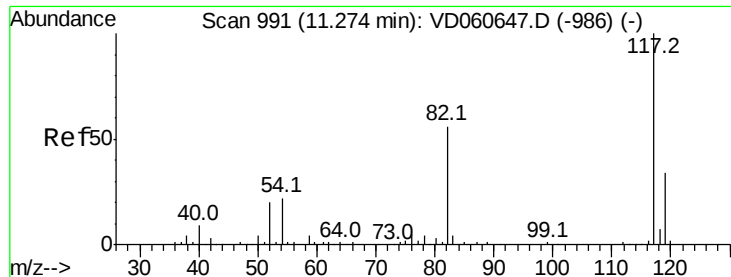
Tot Ion: 63 Resp: 5515
 Ion Ratio Lower Upper
 63 100
 106 30.8 22.4 33.6



#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.42 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VD060665.D
 Acq: 20 Dec 2018 18:24

Tgt Ion: 95 Resp: 217818
 Ion Ratio Lower Upper
 95 100
 174 82.6 0.0 158.2
 176 79.9 0.0 152.4

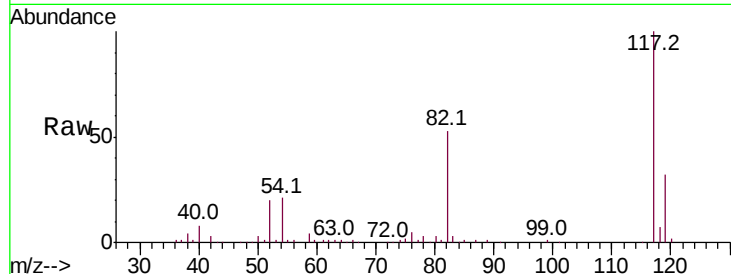




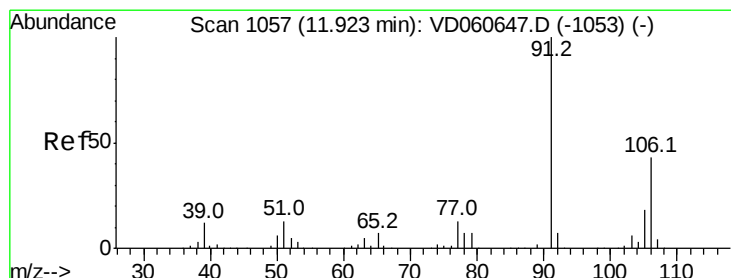
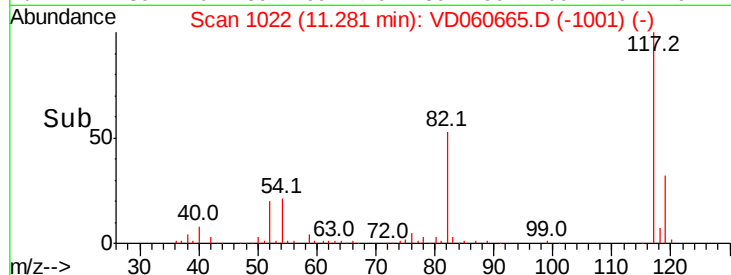
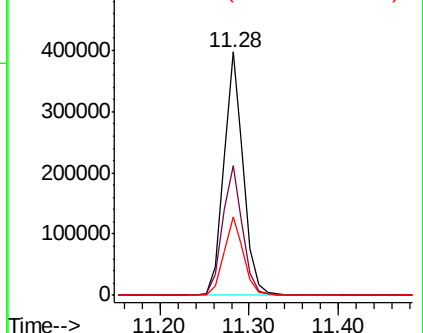
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 1022
Delta R.T. 0.00 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 612658
Ion Ratio Lower Upper
117 100
82 53.2 44.5 66.7
119 32.2 26.3 39.5

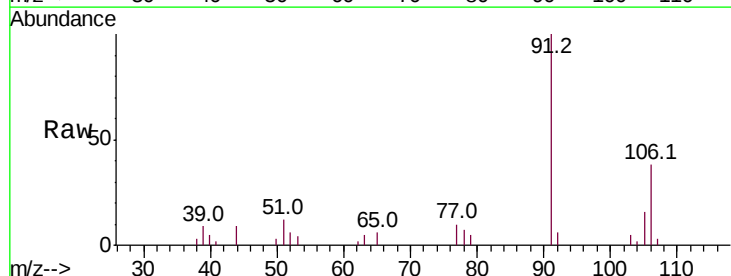


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

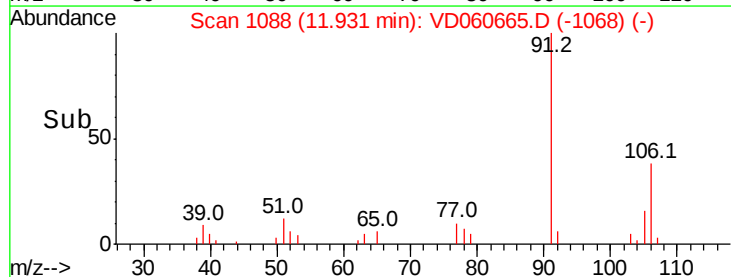
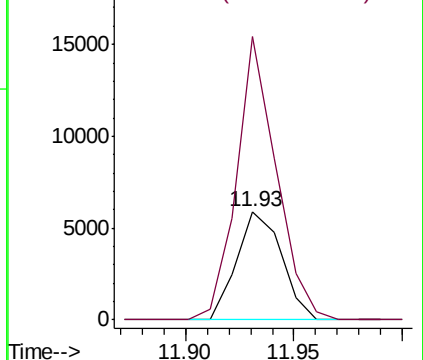


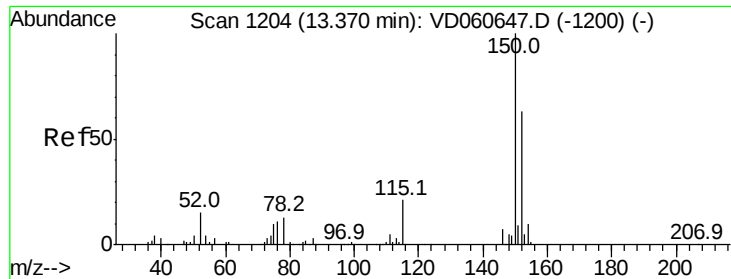
#69
o-Xylene
Concen: 1.054 ug/l
RT: 11.93 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Tgt Ion:106 Resp: 8469
Ion Ratio Lower Upper
106 100
91 261.7 101.5 304.5



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



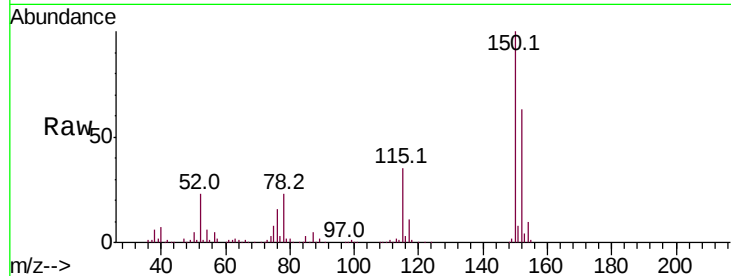


#72

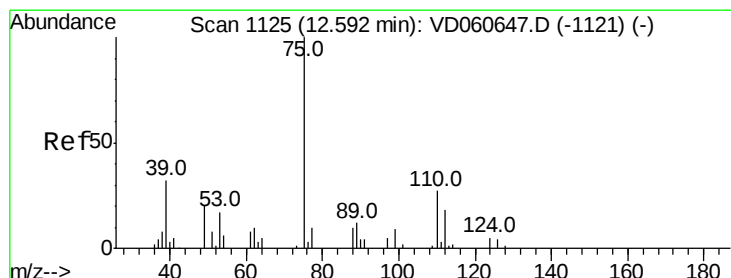
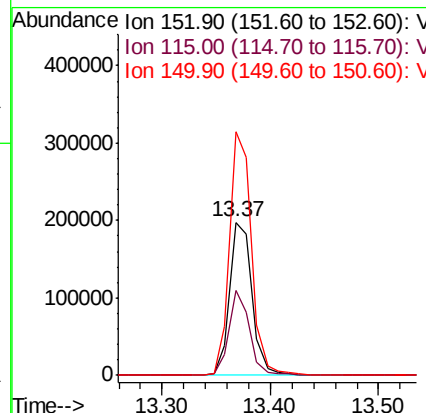
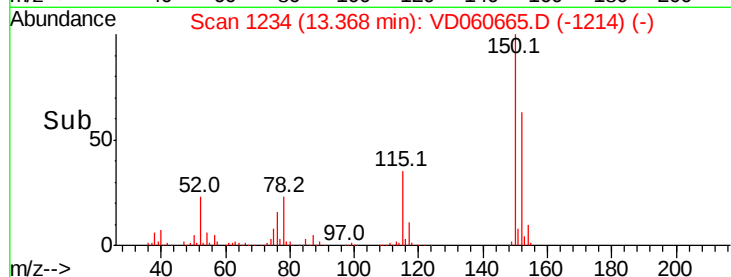
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1234
Delta R.T. -0.01 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 286378
Ion Ratio Lower Upper
152 100
115 55.1 24.1 72.3
150 159.1 0.0 315.0



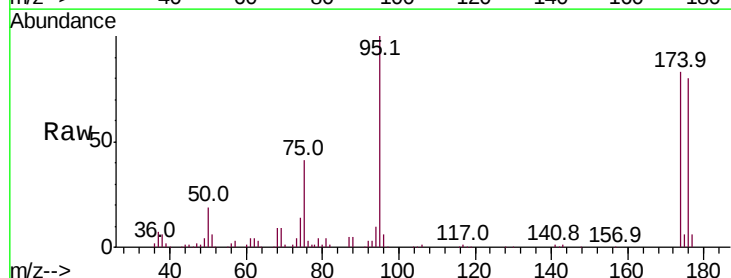
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



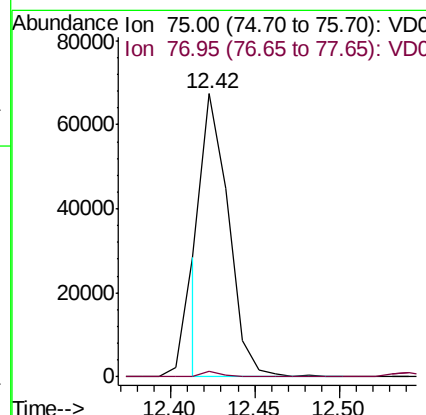
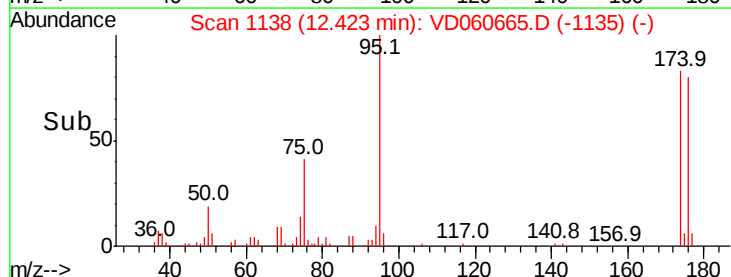
#76

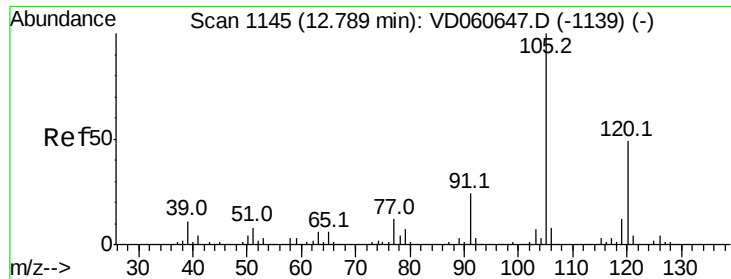
1,2,3-Trichloropropane
Concen: 22.340 ug/l
RT: 12.42 min Scan# 1138
Delta R.T. -0.17 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Tgt Ion: 75 Resp: 72838
Ion Ratio Lower Upper
75 100
77 1.9 16.7 50.0#



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





#80

1,3,5-Trimethylbenzene

Concen: 1.602 ug/l

RT: 12.80 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

Instrument :

MSVOA_D

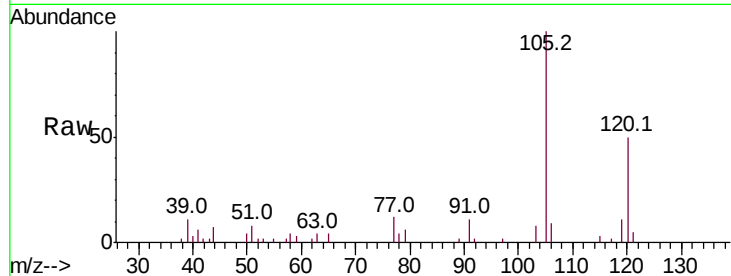
ClientSampled :

Tot Ion:105 Resp: 25229

Ion Ratio Lower Upper

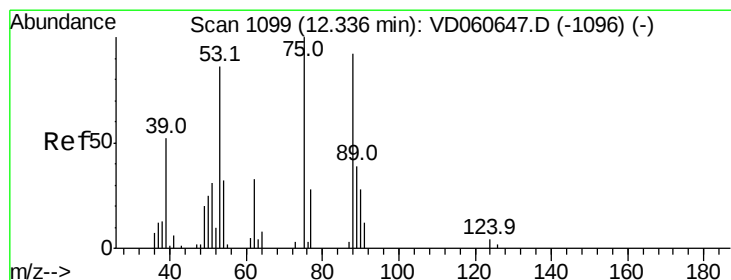
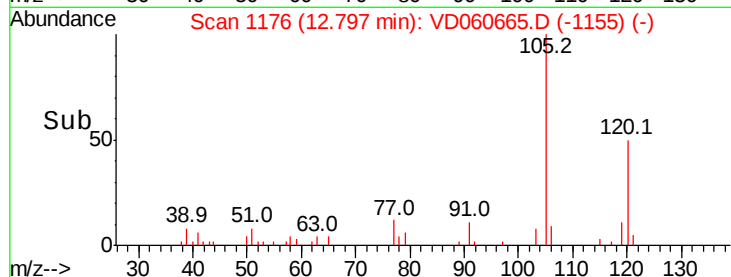
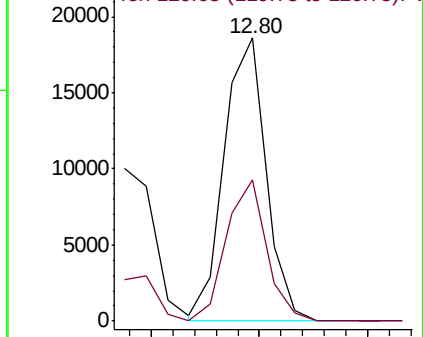
105 100

120 49.9 24.8 74.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 101.007 ug/l

RT: 12.42 min Scan# 1138

Delta R.T. 0.08 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

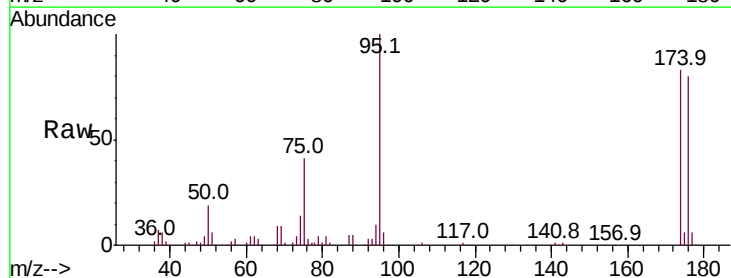
Tgt Ion: 75 Resp: 90999

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

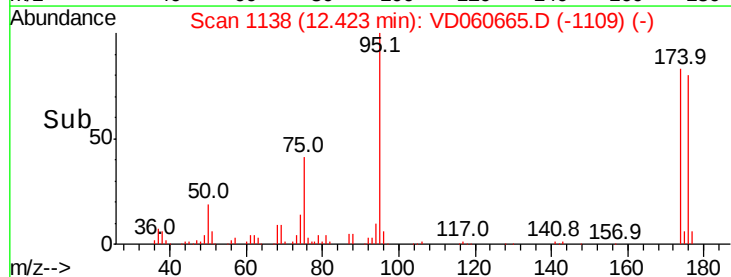
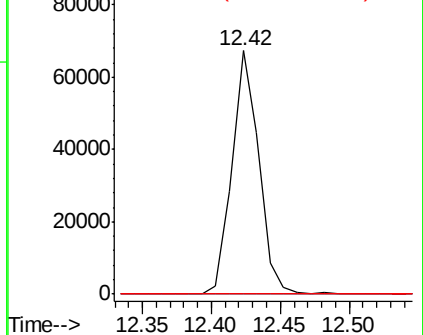
89 0.0 35.1 52.7#

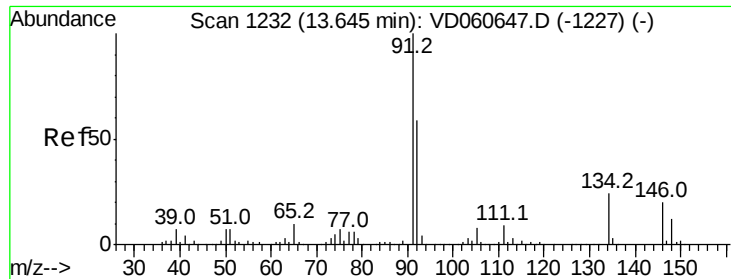


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

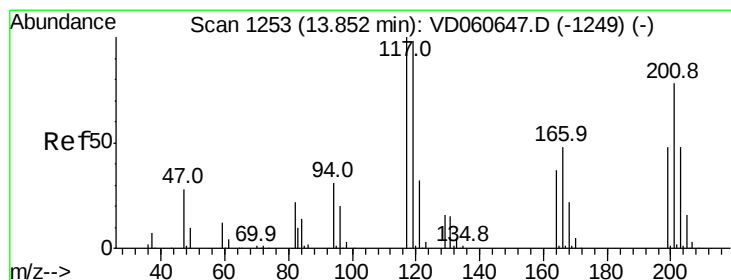
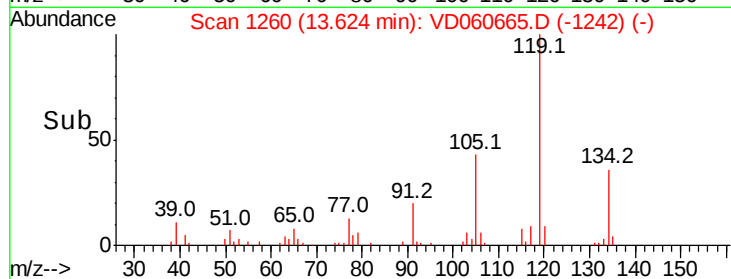
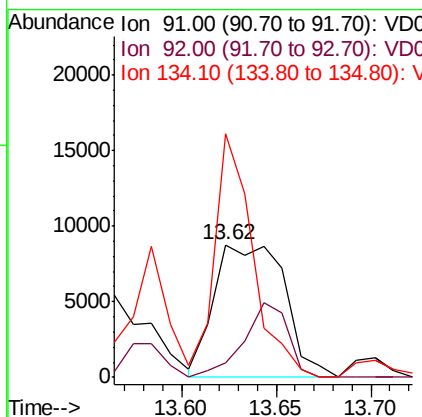
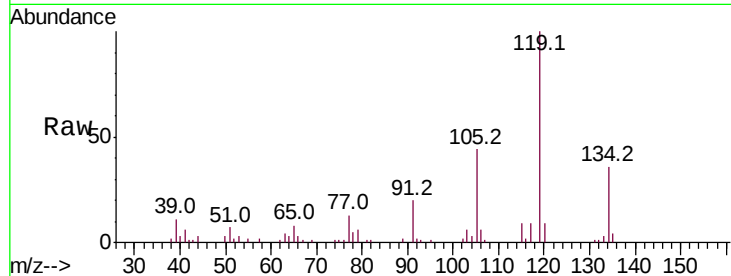




#89
n-Butylbenzene
Concen: 1.256 ug/l
RT: 13.62 min Scan# 1260
Delta R.T. -0.03 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

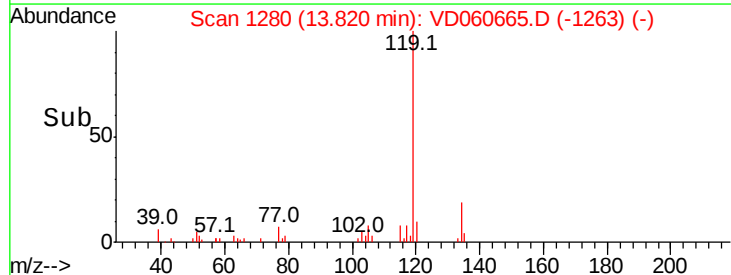
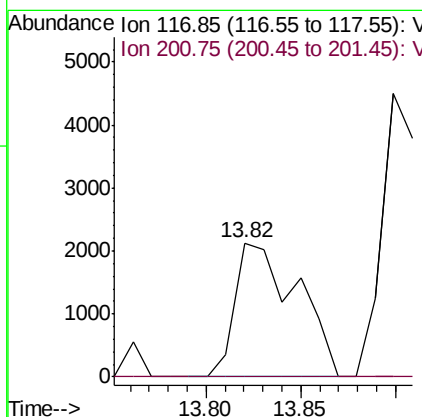
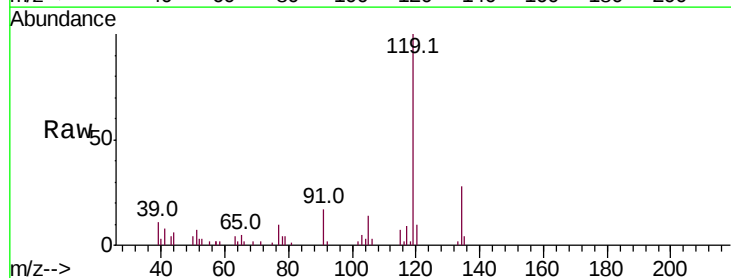
Instrument :
MSVOA_D
ClientSampleId :

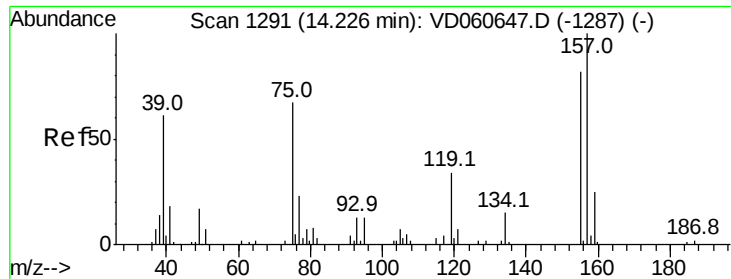
Tot Ion: 91 Resp: 22645
Ion Ratio Lower Upper
91 100
92 11.0 29.7 89.1#
134 183.4 12.7 38.1#



#90
Hexachloroethane
Concen: 1.114 ug/l
RT: 13.82 min Scan# 1280
Delta R.T. -0.04 min
Lab File: VD060665.D
Acq: 20 Dec 2018 18:24

Tgt Ion: 117 Resp: 4829
Ion Ratio Lower Upper
117 100
201 0.0 42.6 127.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.756 ug/l

RT: 14.22 min Scan# 1321

Delta R.T. 0.00 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

Instrument :

MSVOA_D

ClientSampleId :

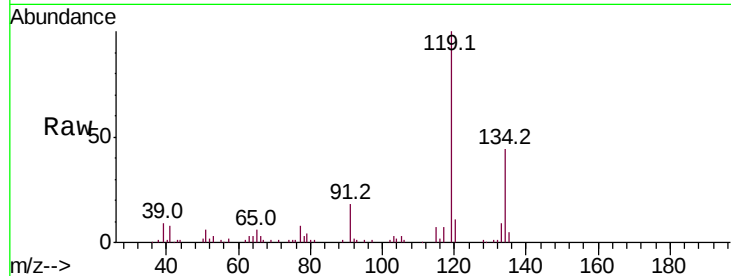
Tot Ion: 75 Resp: 1070

Ion Ratio Lower Upper

75 100

155 0.0 41.1 123.4#

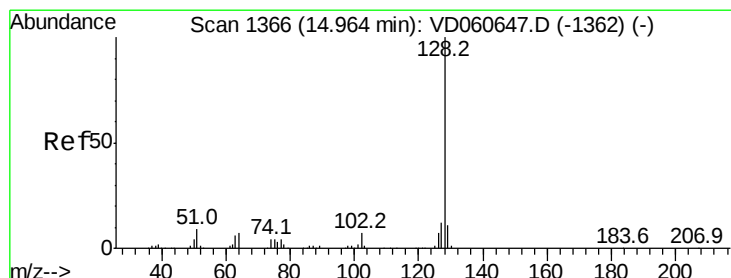
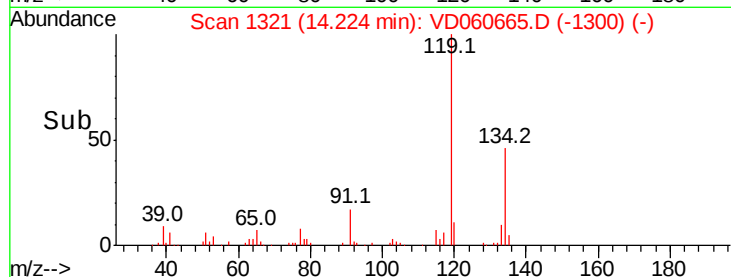
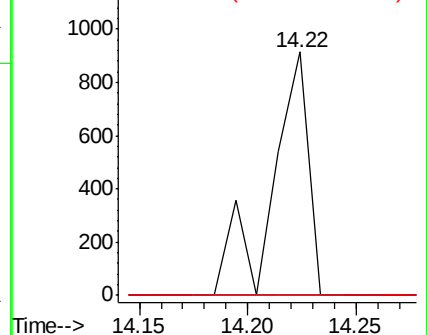
157 0.0 52.5 157.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 5.940 ug/l

RT: 14.97 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VD060665.D

Acq: 20 Dec 2018 18:24

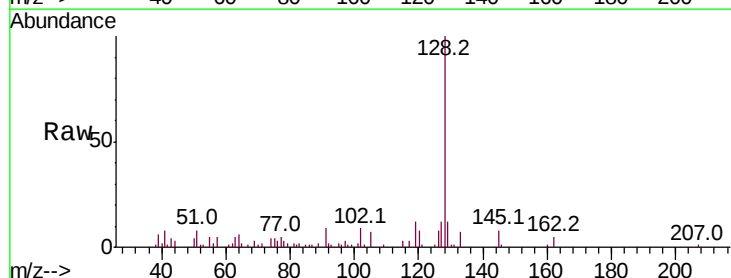
Tgt Ion: 128 Resp: 44528

Ion Ratio Lower Upper

128 100

127 12.0 10.1 15.1

129 12.3 8.6 13.0



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

