

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122018\
 Data File : VD060663.D
 Acq On : 20 Dec 2018 17:29
 Operator : VA/AP
 Sample : J6481-01
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VB-1

Quant Time: Dec 21 03:39:40 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	6.40	168	1471620	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	1978040	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	1582681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	749418	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	418977	41.20	ug/l	0.00
Spiked Amount			Recovery	=	82.40%	
35) Dibromofluoromethane	6.33	113	592359	40.92	ug/l	0.00
Spiked Amount			Recovery	=	81.84%	
50) Toluene-d8	9.45	98	1609876	37.27	ug/l	0.00
Spiked Amount			Recovery	=	74.54%	
62) 4-Bromofluorobenzene	12.43	95	588817	38.92	ug/l	0.00
Spiked Amount			Recovery	=	77.84%	

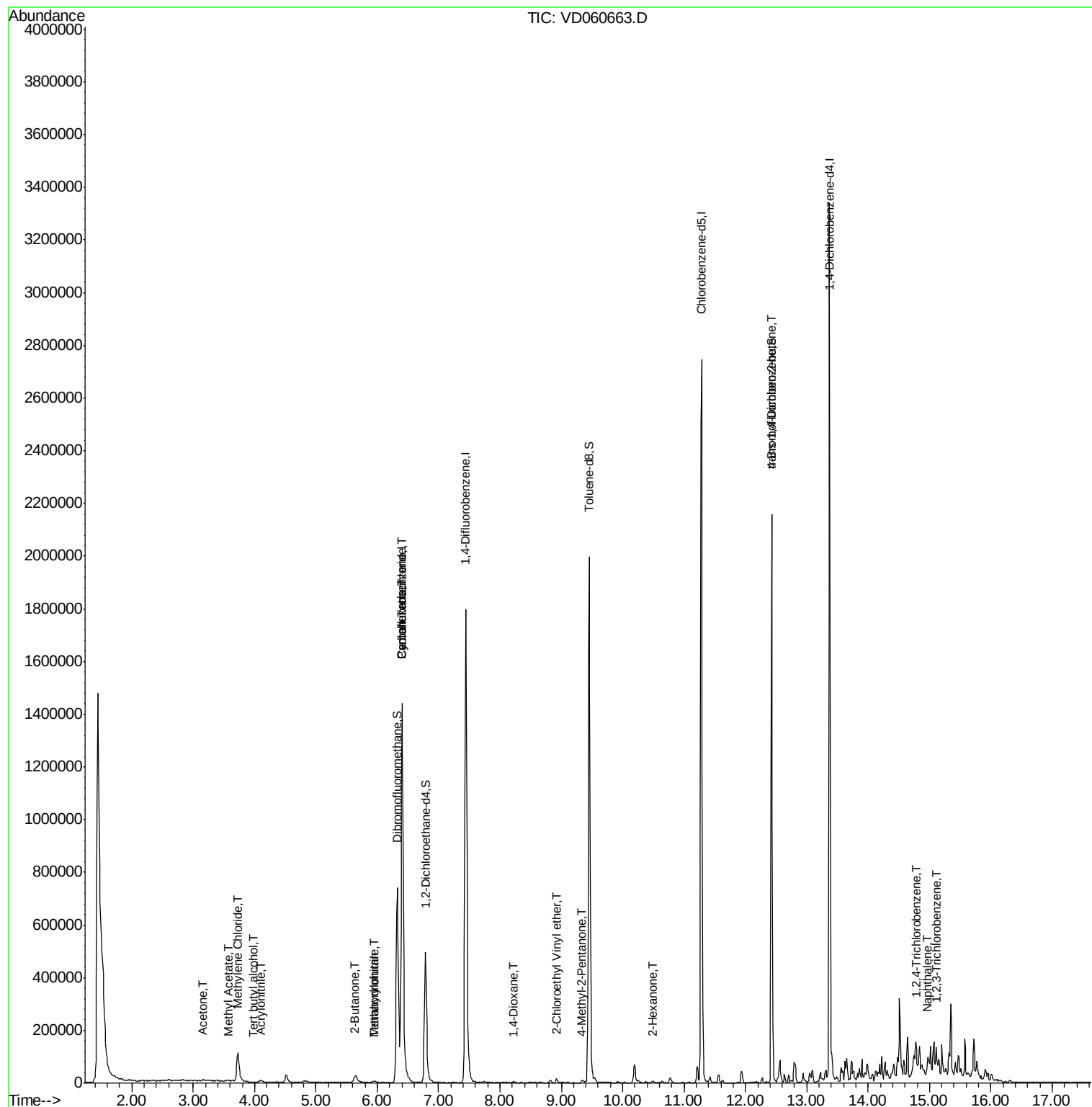
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.97	59	1114	2.621	ug/l #	74
15) Acrylonitrile	4.09	53	5602	2.270	ug/l	88
16) Acetone	3.16	43	12862	7.242	ug/l	96
18) Methyl Acetate	3.56	43	7648	1.738	ug/l #	63
20) Methylene Chloride	3.73	84	74042	4.014	ug/l	97
25) 2-Butanone	5.62	43	9828	2.892	ug/l	94
29) Tetrahydrofuran	5.96	42	4711	2.445	ug/l #	72
31) Cyclohexane	6.40	56	27331	1.064	ug/l #	1
38) Carbon Tetrachloride	6.40	117	115187	6.410	ug/l #	16
41) Methacrylonitrile	5.95	41	4886	1.037	ug/l #	61
49) 1,4-Dioxane	8.22	88	272	4.406	ug/l #	25
51) 4-Methyl-2-Pentanone	9.35	43	11749	1.754	ug/l #	85
58) 2-Chloroethyl Vinyl ether	8.92	63	7205	1.483	ug/l #	87
59) 2-Hexanone	10.49	43	7774	1.658	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.43	75	235864	100.044	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.79	180	21201	1.284	ug/l	94
95) Naphthalene	14.97	128	36066	1.838	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	20179	1.564	ug/l #	77

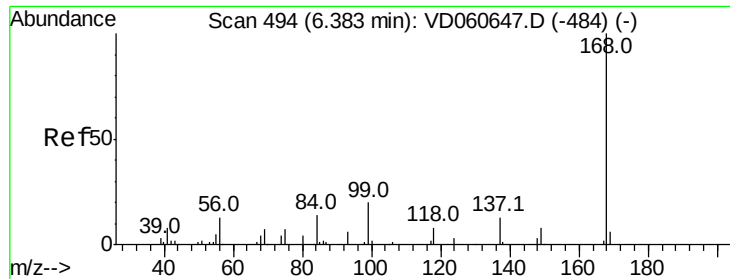
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 6.40 min Scan# 526

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

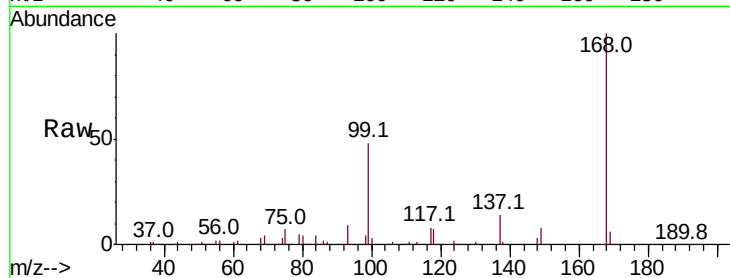
VB-1

Tot Ion:168 Resp: 1471620

Ion Ratio Lower Upper

168 100

99 47.9 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

500000

400000

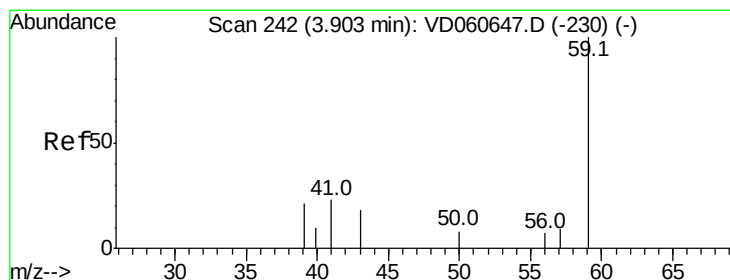
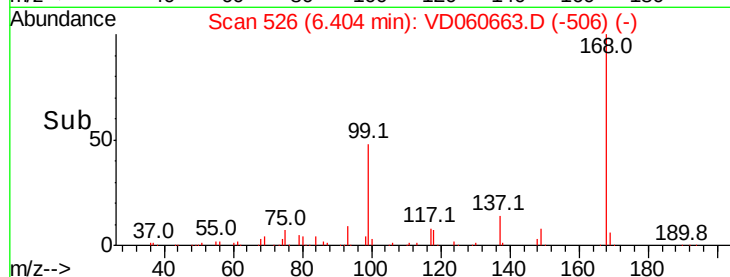
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.621 ug/l

RT: 3.97 min Scan# 279

Delta R.T. -0.00 min

Lab File: VD060663.D

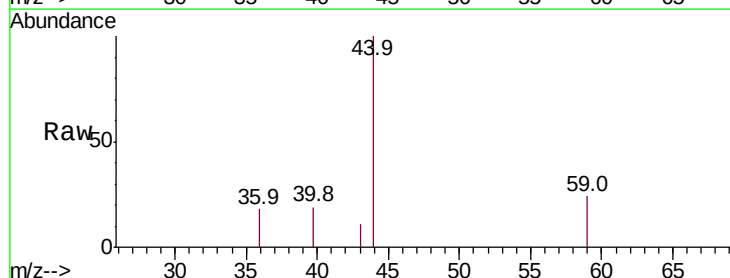
Acq: 20 Dec 2018 17:29

Tgt Ion: 59 Resp: 1114

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.97

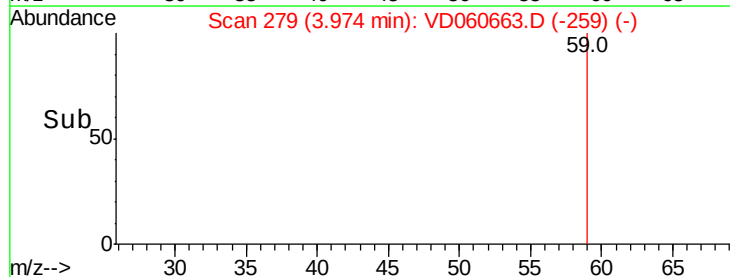
600

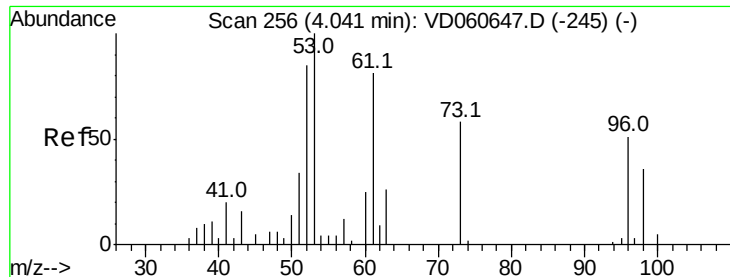
400

200

0

Time-->





#15

Acrylonitrile

Concen: 2.270 ug/l

RT: 4.09 min Scan# 291

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampled :

VB-1

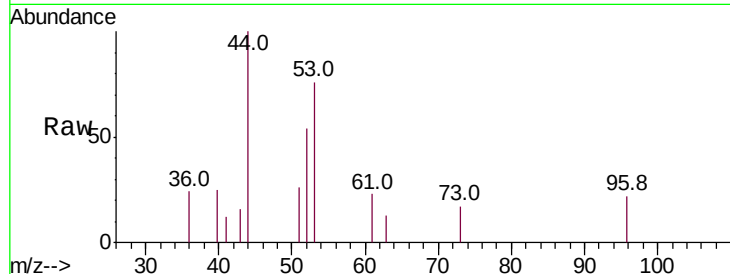
Tot Ion: 53 Resp: 5602

Ion Ratio Lower Upper

53 100

52 71.4 66.7 100.1

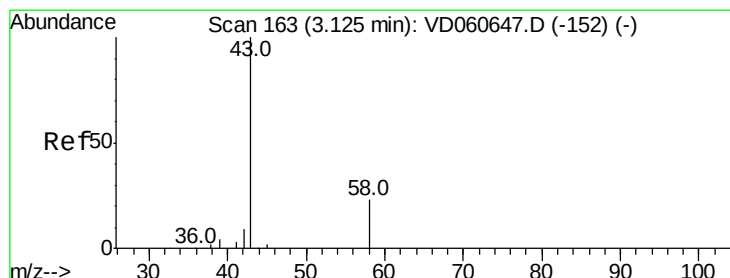
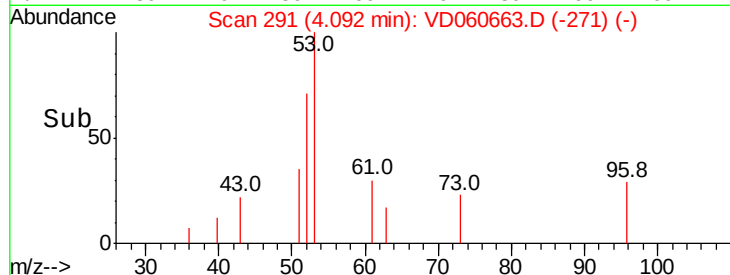
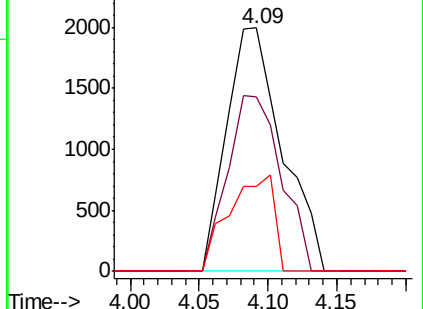
51 34.6 32.7 49.1



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



#16

Acetone

Concen: 7.242 ug/l

RT: 3.16 min Scan# 196

Delta R.T. -0.01 min

Lab File: VD060663.D

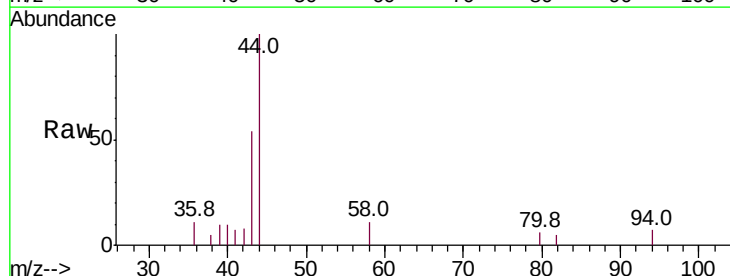
Acq: 20 Dec 2018 17:29

Tgt Ion: 43 Resp: 12862

Ion Ratio Lower Upper

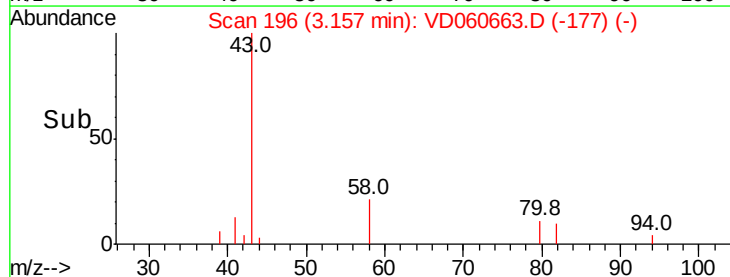
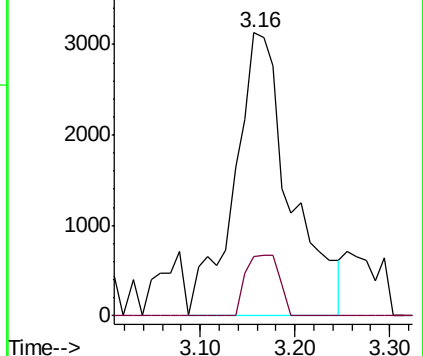
43 100

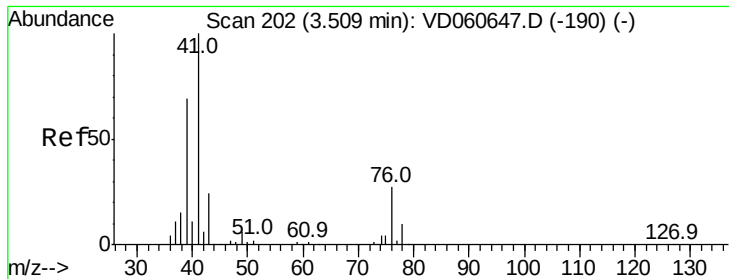
58 21.0 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#18

Methvl Acetate

Concen: 1.738 ug/l

RT: 3.56 min Scan# 237

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

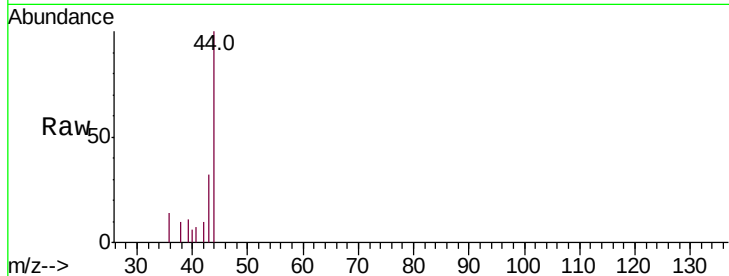
VB-1

Tot Ion: 43 Resp: 7648

Ion Ratio Lower Upper

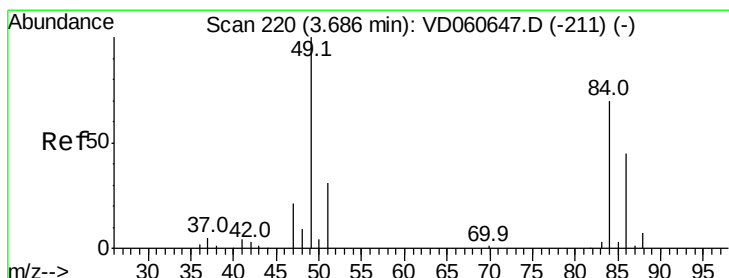
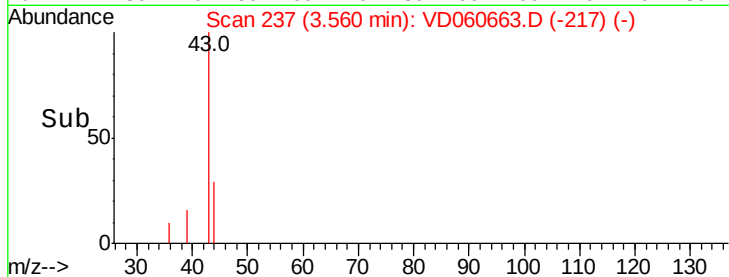
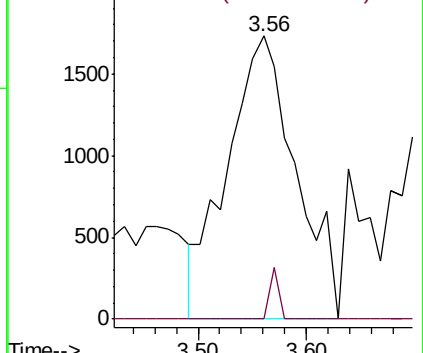
43 100

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

Methylene Chloride

Concen: 4.014 ug/l

RT: 3.73 min Scan# 254

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Tgt Ion: 84 Resp: 74042

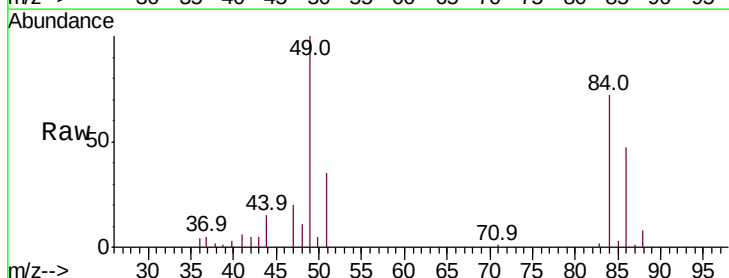
Ion Ratio Lower Upper

84 100

49 138.8 113.6 170.4

51 49.0 34.7 52.1

86 65.6 52.8 79.2

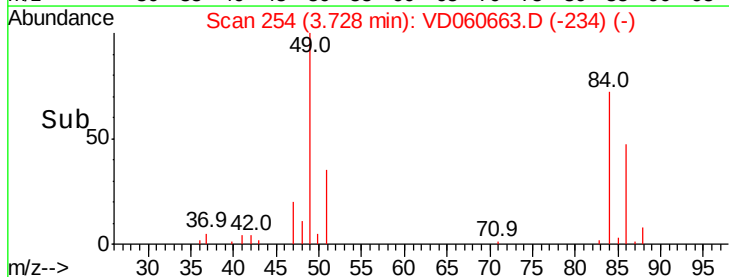
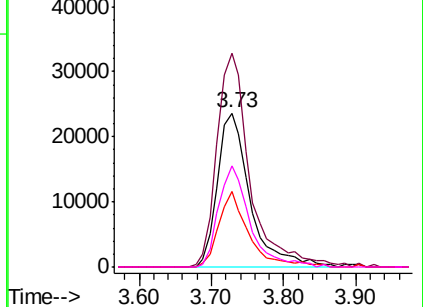


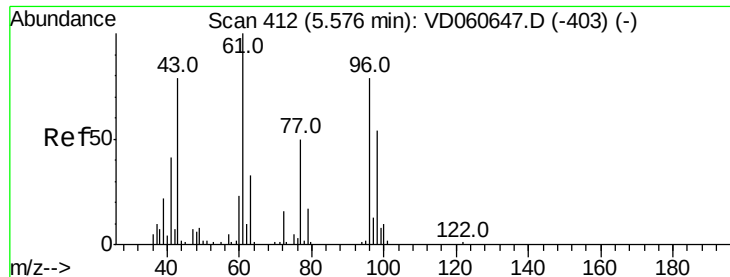
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 2.892 ug/l

RT: 5.62 min Scan# 446

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

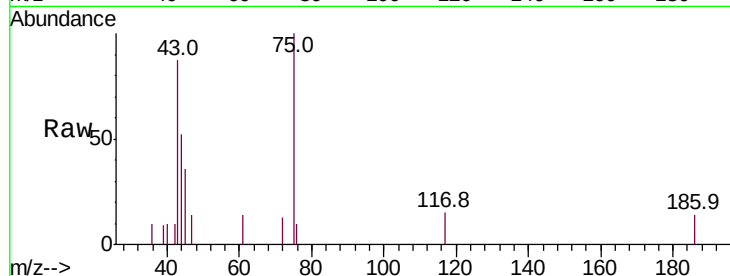
VB-1

Tot Ion: 43 Resp: 9828

Ion Ratio Lower Upper

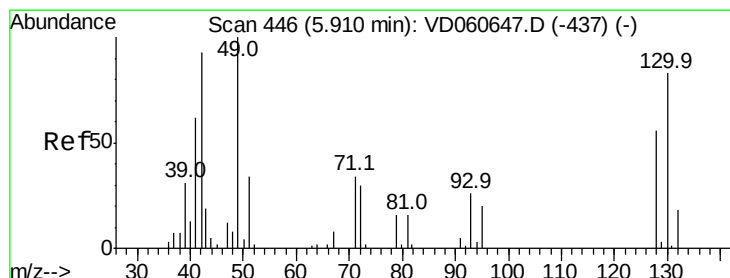
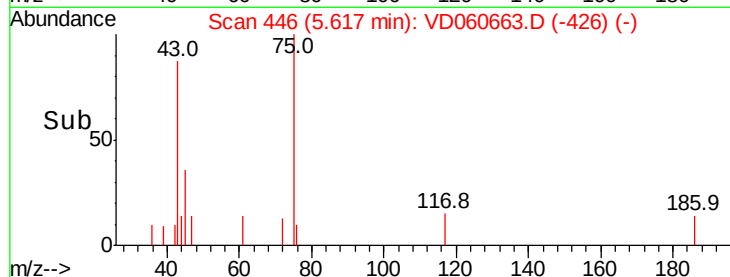
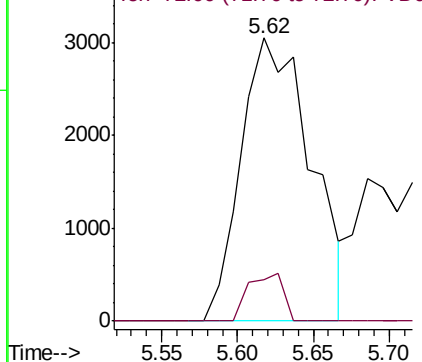
43 100

72 14.5 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: 2.445 ug/l

RT: 5.96 min Scan# 481

Delta R.T. 0.01 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

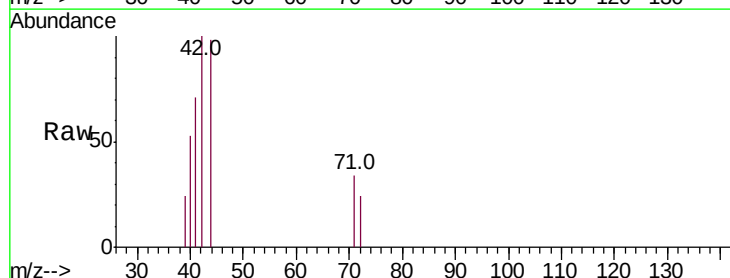
Tgt Ion: 42 Resp: 4711

Ion Ratio Lower Upper

42 100

72 13.8 28.0 42.0#

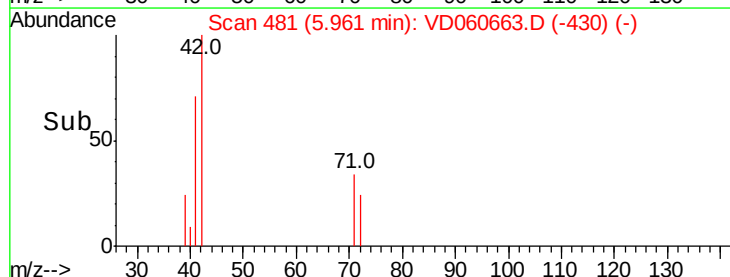
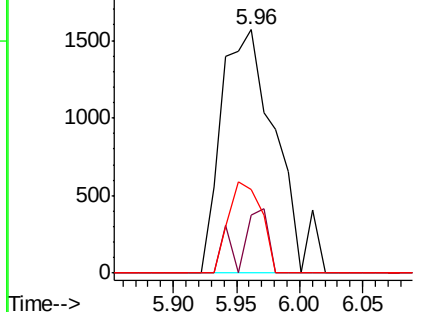
71 22.6 27.0 40.6#

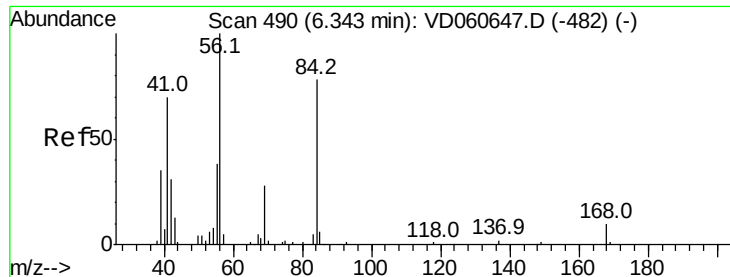


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.064 ug/l

RT: 6.40 min Scan# 526

Delta R.T. 0.04 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :
MSVOA_D
ClientSampleId :
VB-1

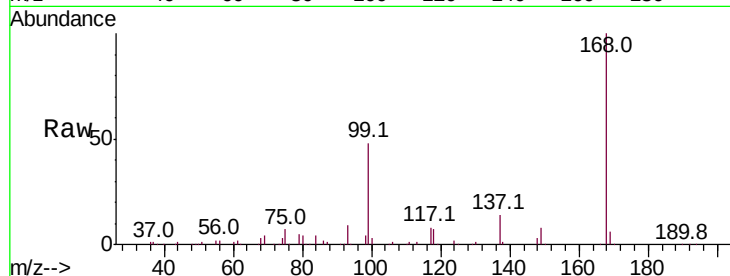
Tot Ion: 56 Resp: 27331

Ion Ratio Lower Upper

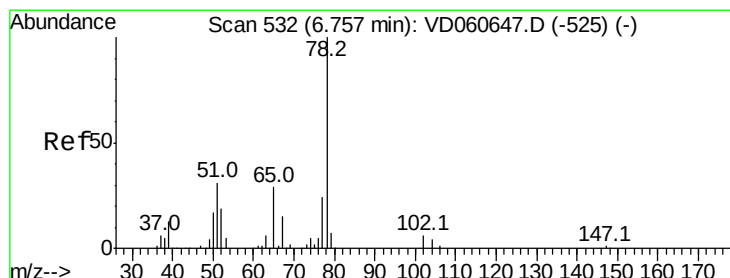
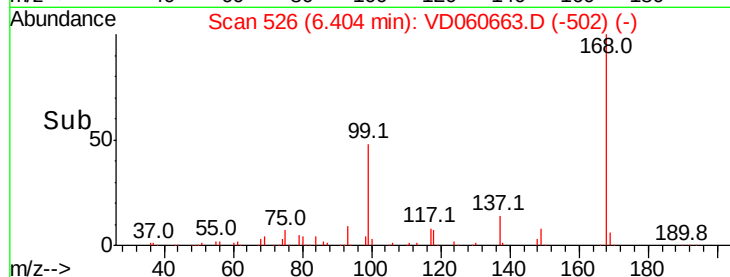
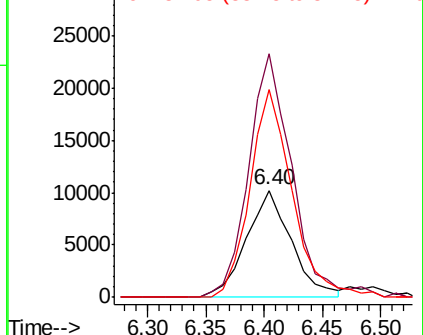
56 100

69 227.9 23.6 35.4#

84 194.0 65.8 98.6#



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: 6.79 min Scan# 565

Delta R.T. -0.00 min

Lab File: VD060663.D

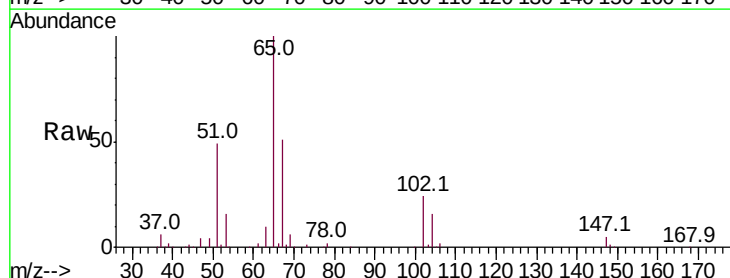
Acq: 20 Dec 2018 17:29

Tgt Ion: 65 Resp: 418977

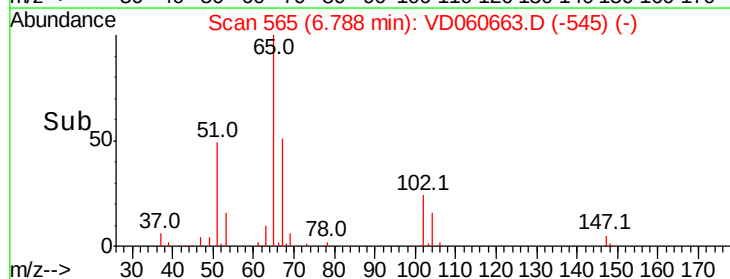
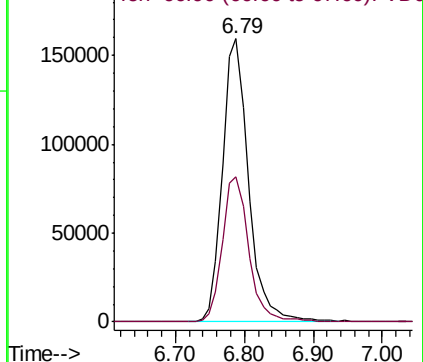
Ion Ratio Lower Upper

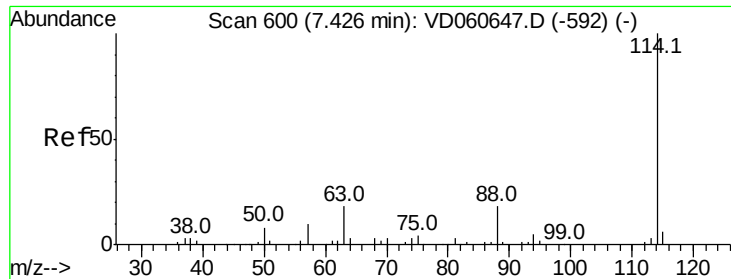
65 100

67 51.2 0.0 105.4



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

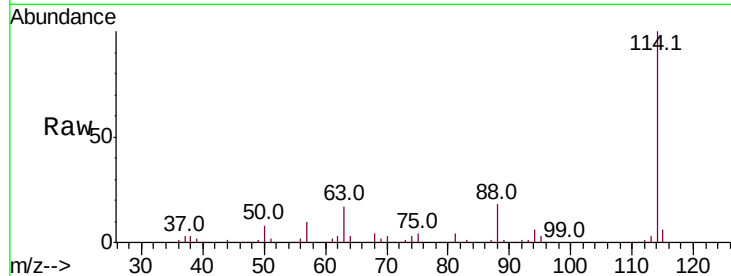




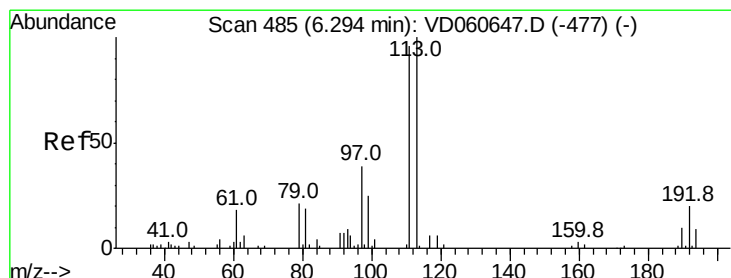
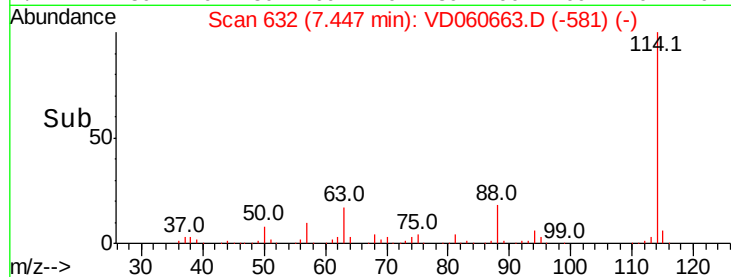
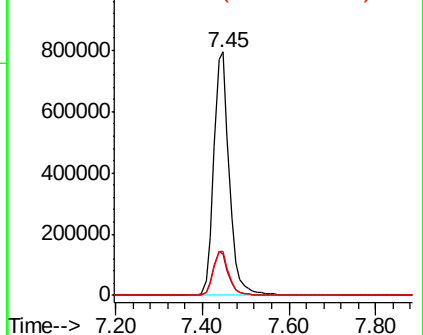
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VD060663.D
 Acq: 20 Dec 2018 17:29

Instrument :
 MSVOA_D
 ClientSampled :
 VB-1

Tot Ion:114 Resp: 1978040
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 36.2
 88 18.0 0.0 37.0

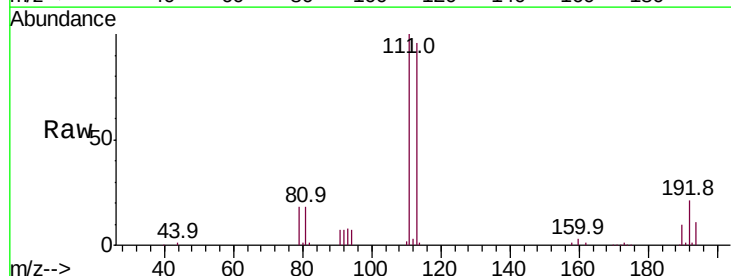


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

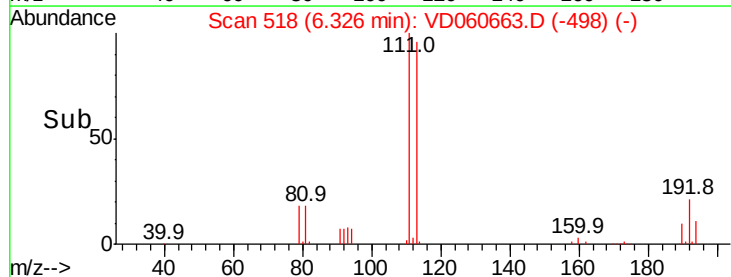
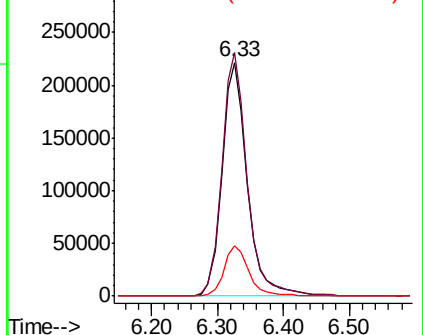


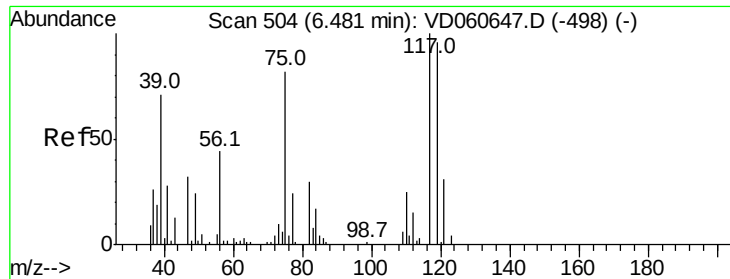
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: VD060663.D
 Acq: 20 Dec 2018 17:29

Tgt Ion:113 Resp: 592359
 Ion Ratio Lower Upper
 113 100
 111 104.3 80.0 120.0
 192 21.7 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





#38

Carbon Tetrachloride

Concen: 6.410 ug/l

RT: 6.40 min Scan# 526

Delta R.T. -0.09 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampled :

VB-1

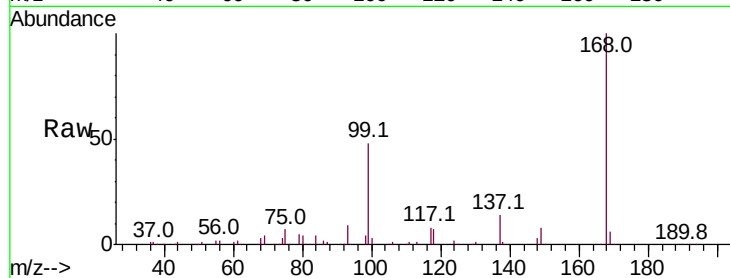
Tot Ion:117 Resp: 115187

Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.4#

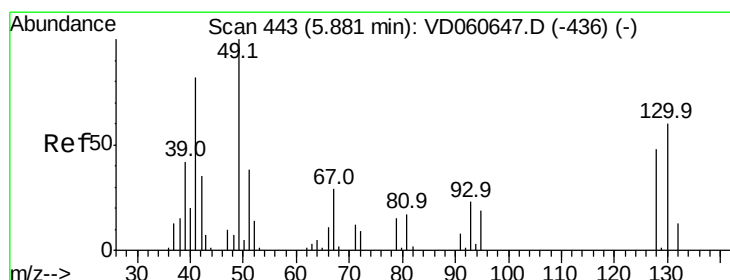
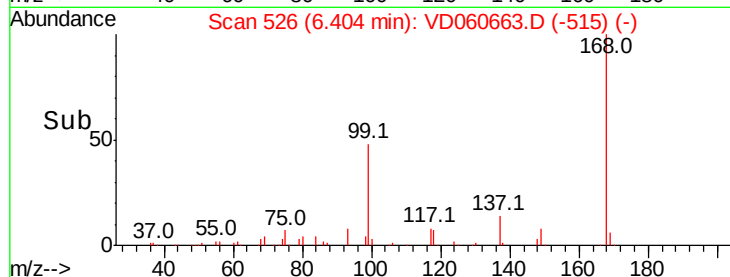
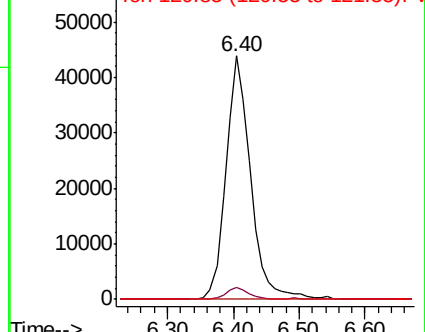
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 1.037 ug/l

RT: 5.95 min Scan# 480

Delta R.T. 0.03 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Tgt Ion: 41 Resp: 4886

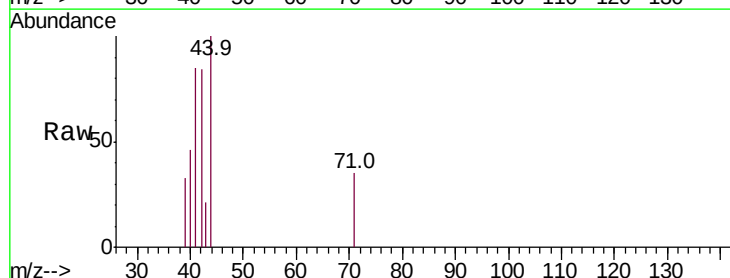
Ion Ratio Lower Upper

41 100

39 38.3 37.6 56.4

67 0.0 33.0 49.6#

52 0.0 15.5 23.3#

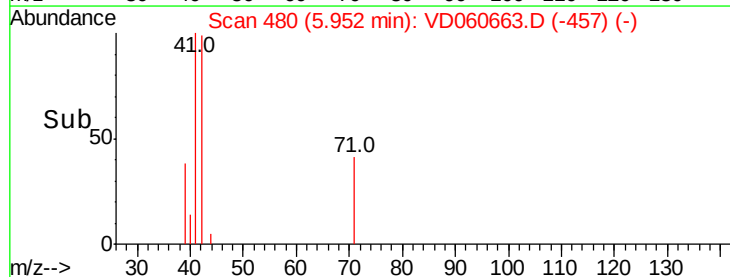
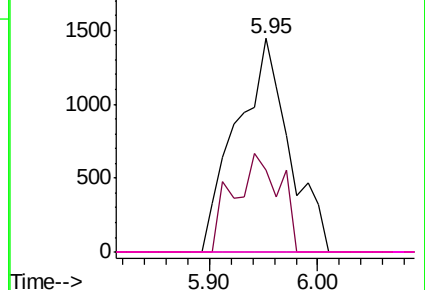


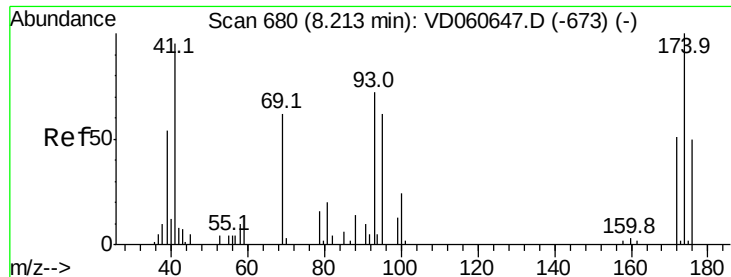
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#49

1,4-Dioxane

Concen: 4.406 ug/l

RT: 8.22 min Scan# 711

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

VB-1

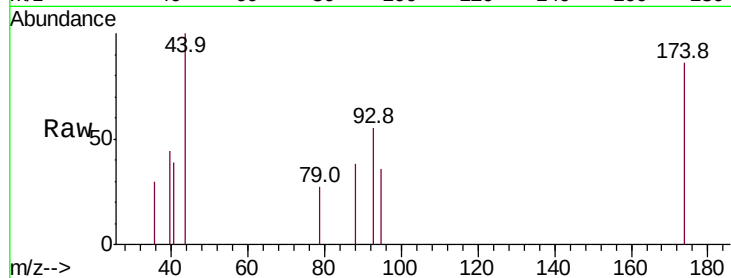
Tot Ion: 88 Resp: 272

Ion Ratio Lower Upper

88 100

43 0.0 31.5 47.3#

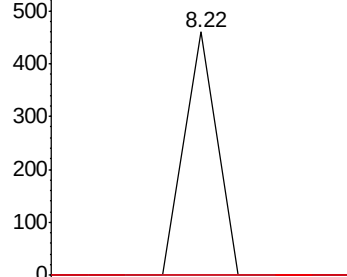
58 0.0 50.6 76.0#



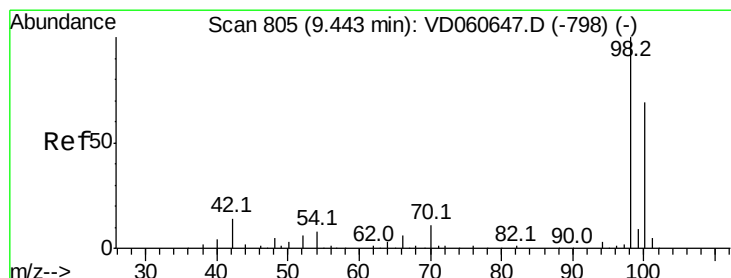
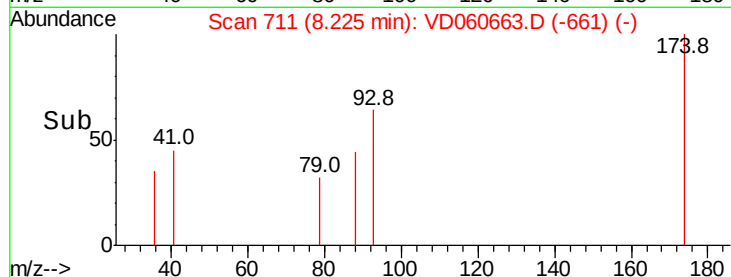
Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#50

Toluene-d8

Concen: 4.406 ug/l

RT: 9.45 min Scan# 836

Delta R.T. -0.00 min

Lab File: VD060663.D

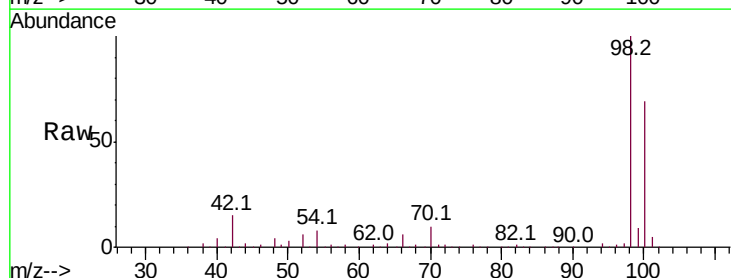
Acq: 20 Dec 2018 17:29

Tgt Ion: 98 Resp: 1609876

Ion Ratio Lower Upper

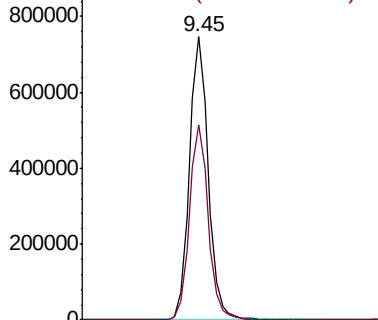
98 100

100 68.8 55.8 83.8

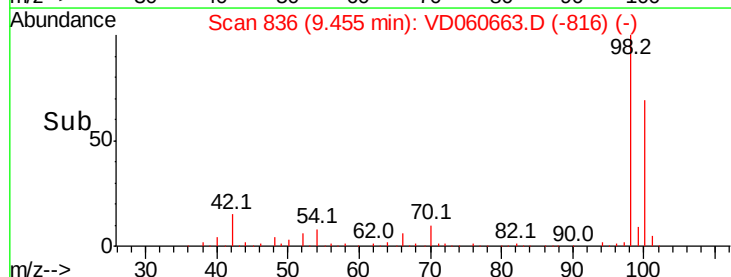


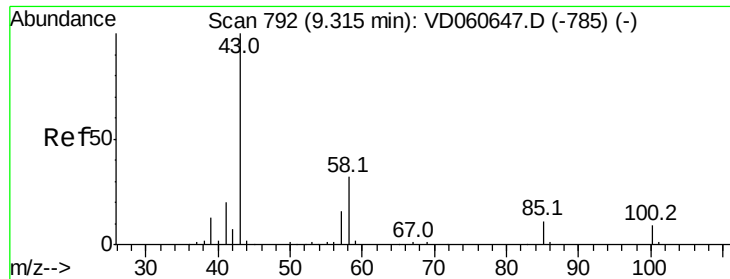
Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.754 ug/l

RT: 9.35 min Scan# 825

Delta R.T. 0.01 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

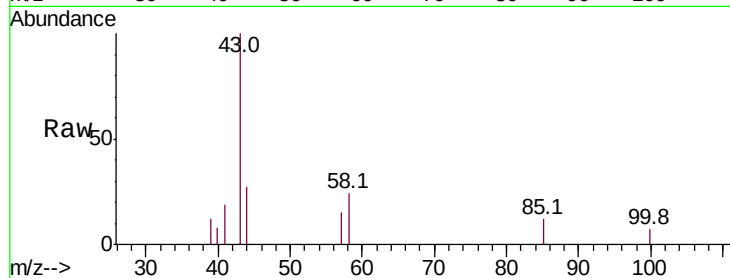
VB-1

Tot Ion: 43 Resp: 11749

Ion Ratio Lower Upper

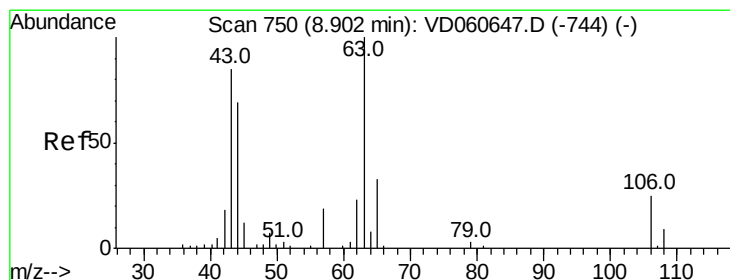
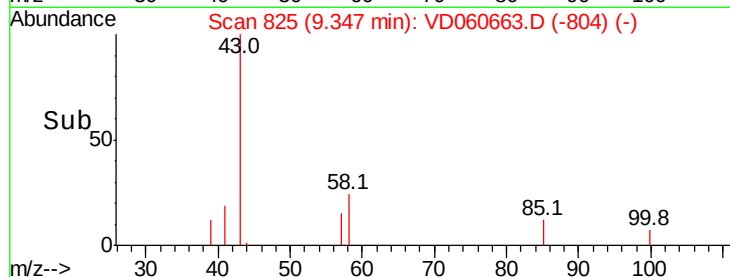
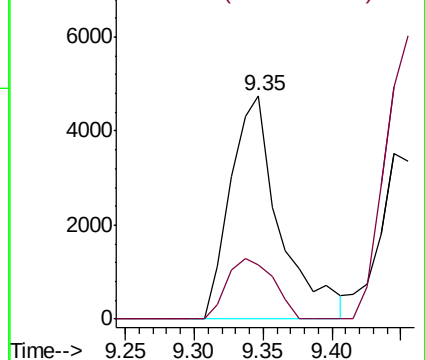
43 100

58 24.2 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: 1.483 ug/l

RT: 8.92 min Scan# 782

Delta R.T. -0.00 min

Lab File: VD060663.D

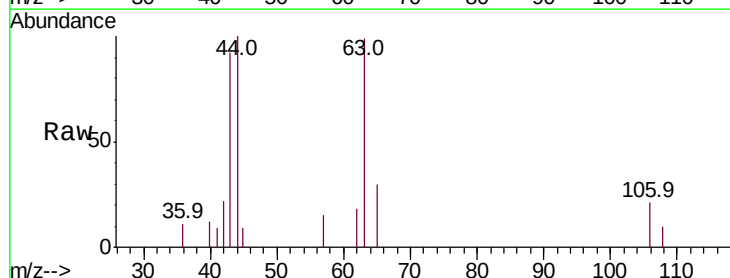
Acq: 20 Dec 2018 17:29

Tgt Ion: 63 Resp: 7205

Ion Ratio Lower Upper

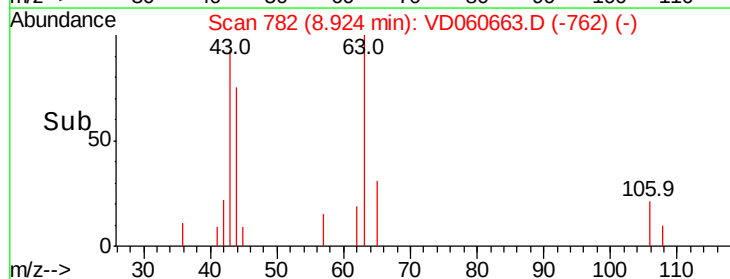
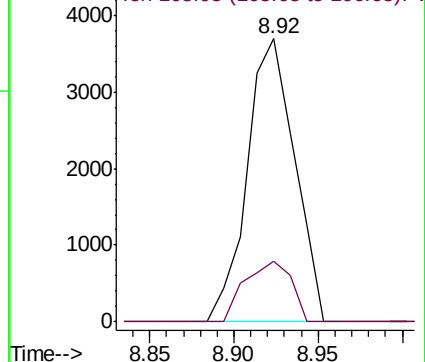
63 100

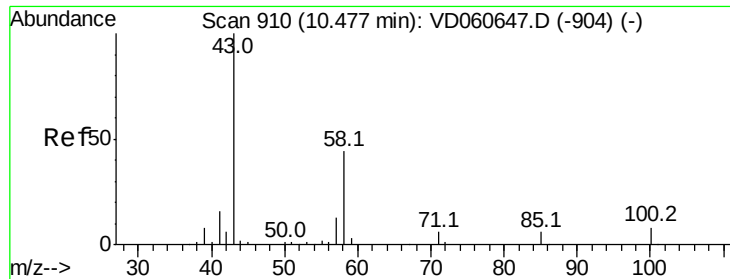
106 21.3 22.4 33.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





#59

2-Hexanone

Concen: 1.658 ug/l

RT: 10.49 min Scan# 941

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

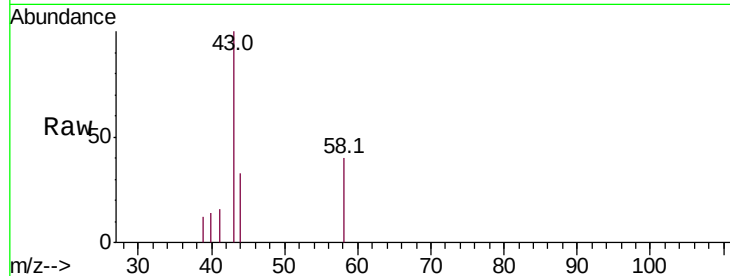
Instrument :
MSVOA_D
ClientSampled :
VB-1

Tot Ion: 43 Resp: 7774

Ion Ratio Lower Upper

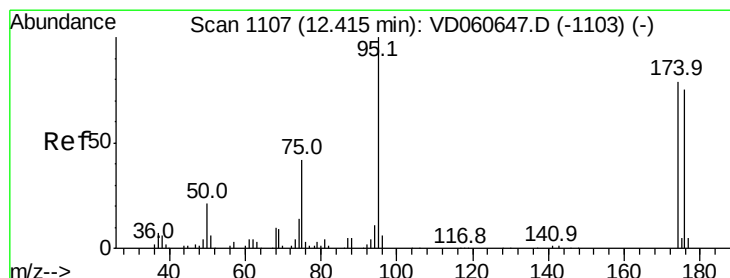
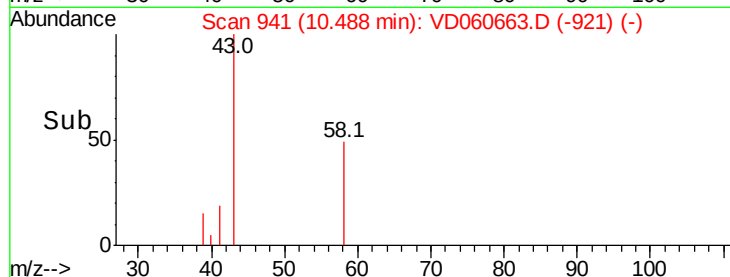
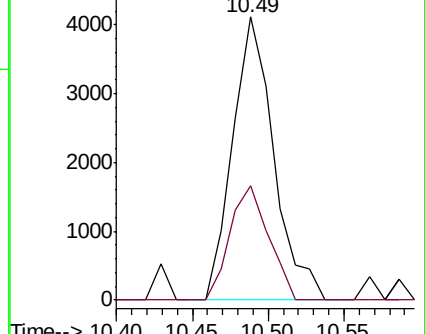
43 100

58 40.4 23.5 70.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.43 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

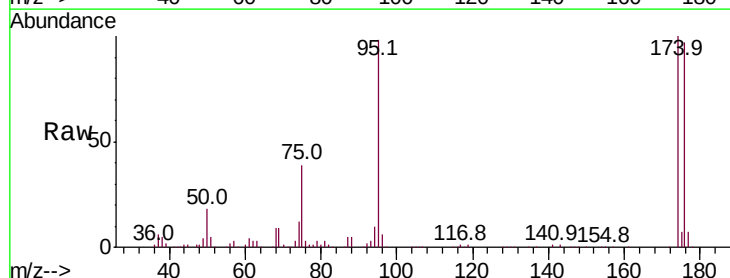
Tgt Ion: 95 Resp: 588817

Ion Ratio Lower Upper

95 100

174 101.7 0.0 158.2

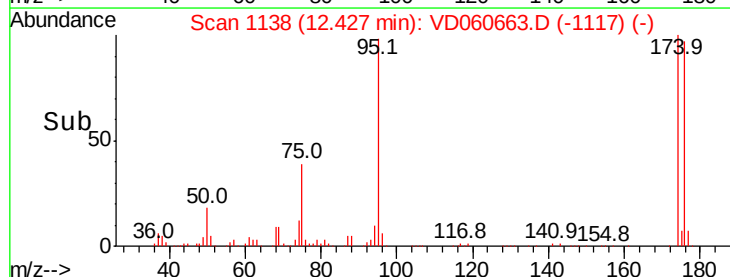
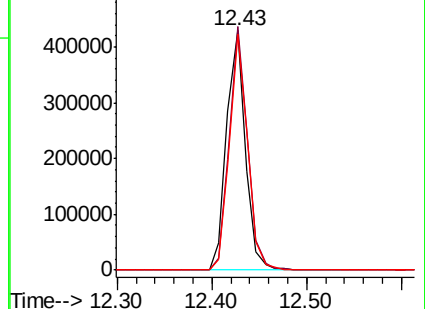
176 98.4 0.0 152.4

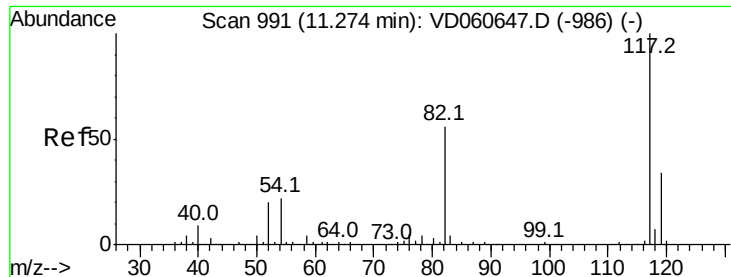


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

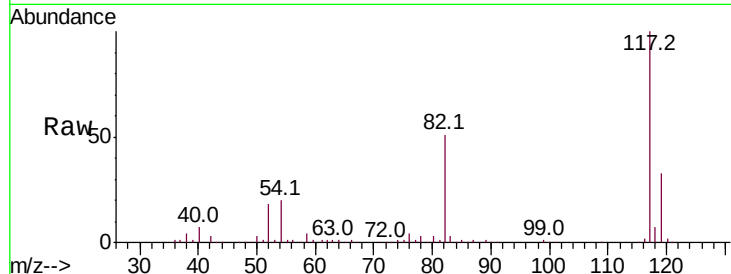




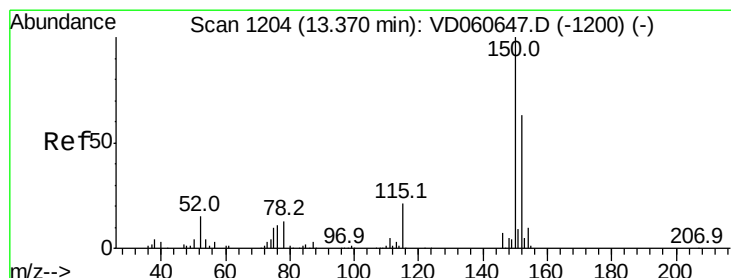
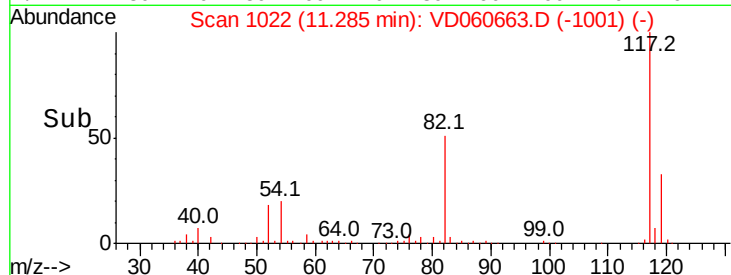
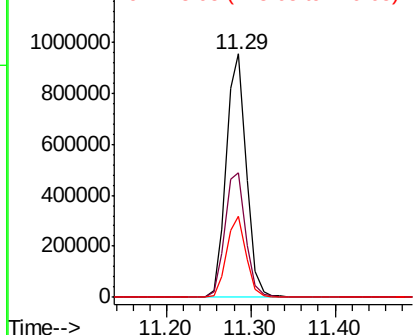
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VD060663.D
Acq: 20 Dec 2018 17:29

Instrument :
MSVOA_D
ClientSampleId :
VB-1

Tot Ion:117 Resp: 1582681
Ion Ratio Lower Upper
117 100
82 51.2 44.5 66.7
119 33.2 26.3 39.5

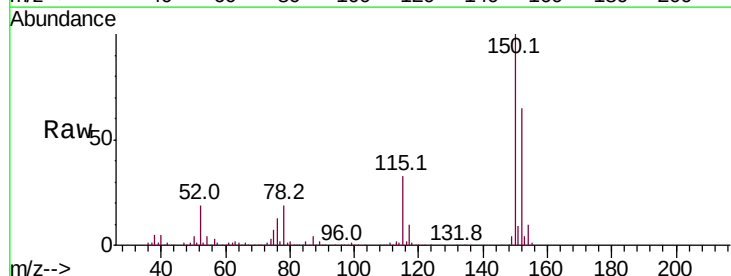


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

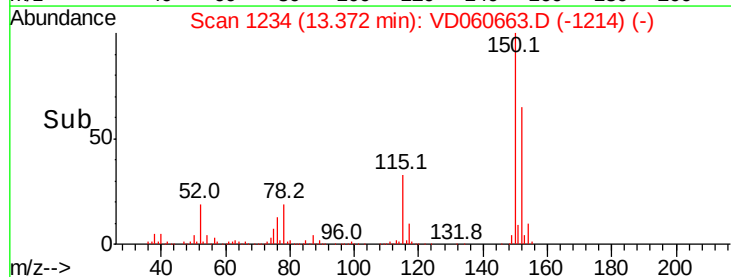
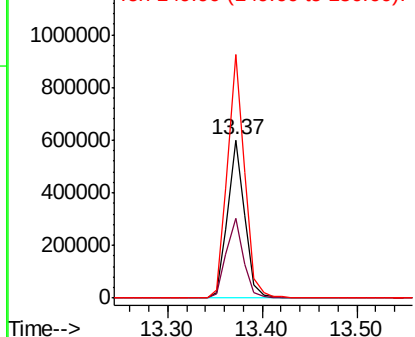


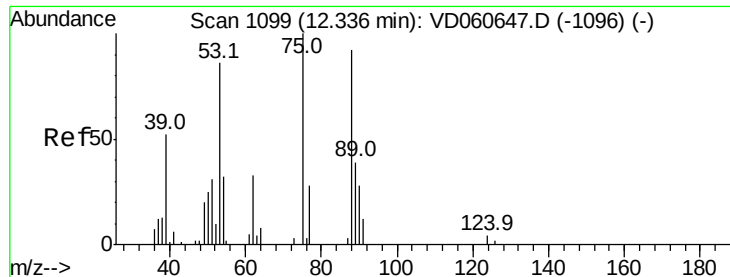
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1234
Delta R.T. -0.00 min
Lab File: VD060663.D
Acq: 20 Dec 2018 17:29

Tgt Ion:152 Resp: 749418
Ion Ratio Lower Upper
152 100
115 50.6 24.1 72.3
150 153.9 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





#81

trans-1,4-Dichloro-2-butene

Concen: 100.044 ug/l

RT: 12.43 min Scan# 1138

Delta R.T. 0.09 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

VB-1

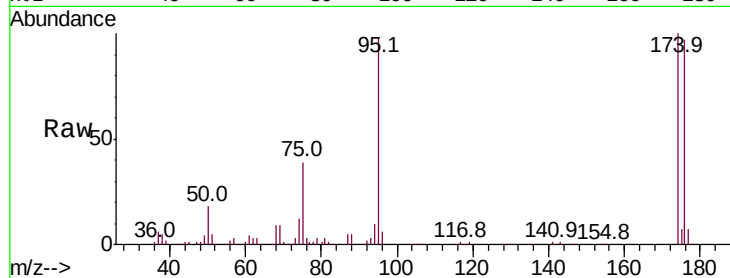
Tot Ion: 75 Resp: 235864

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

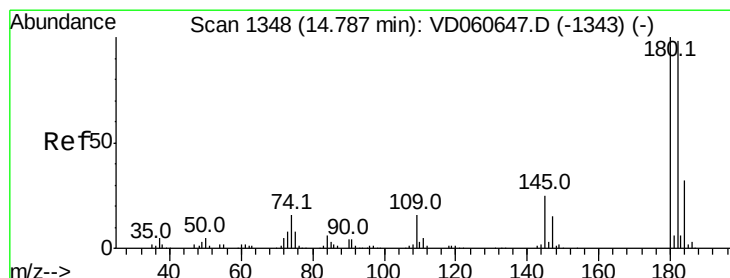
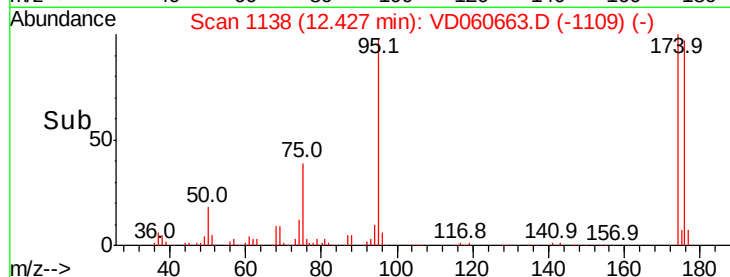
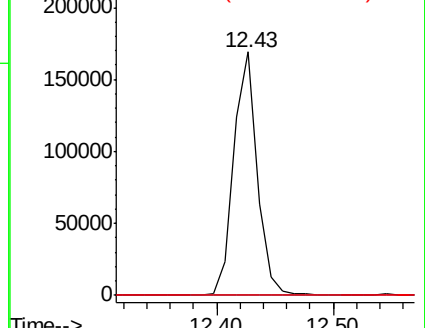
89 0.0 35.1 52.7#



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



#93

1,2,4-Trichlorobenzene

Concen: 1.284 ug/l

RT: 14.79 min Scan# 1378

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

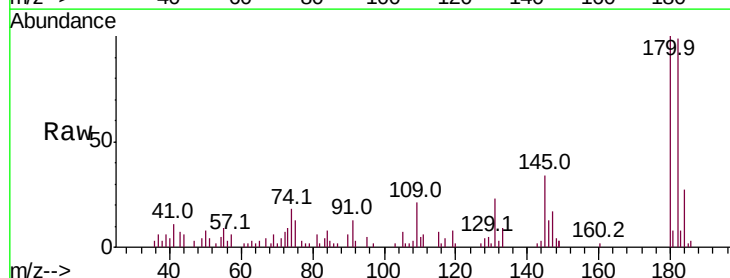
Tgt Ion:180 Resp: 21201

Ion Ratio Lower Upper

180 100

182 99.3 48.8 146.4

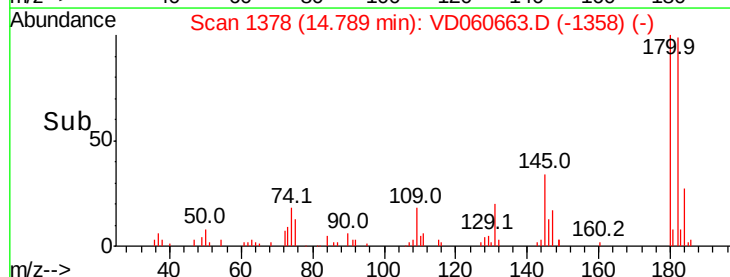
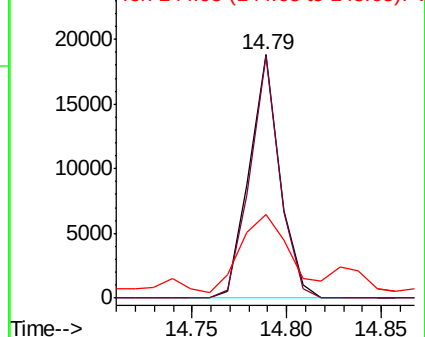
145 34.2 11.8 35.3

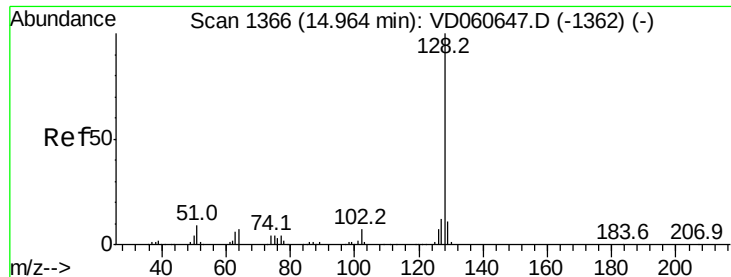


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 1.838 ug/l

RT: 14.97 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

Instrument :

MSVOA_D

ClientSampleId :

VB-1

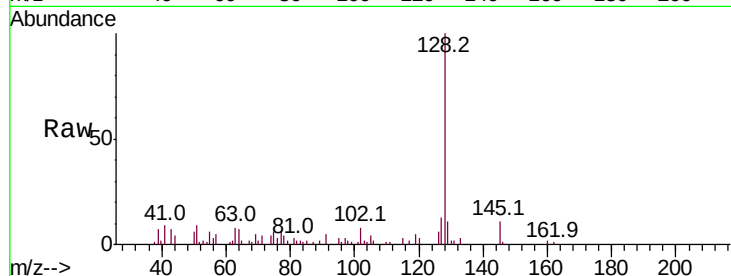
Tot Ion:128 Resp: 36066

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

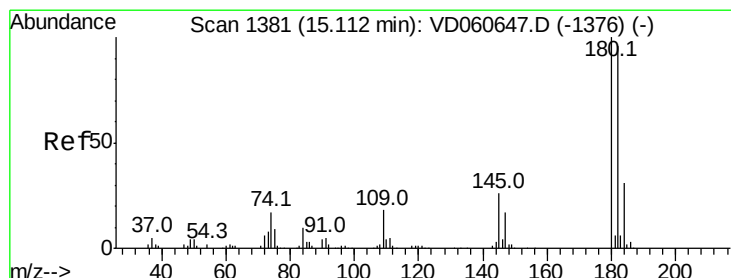
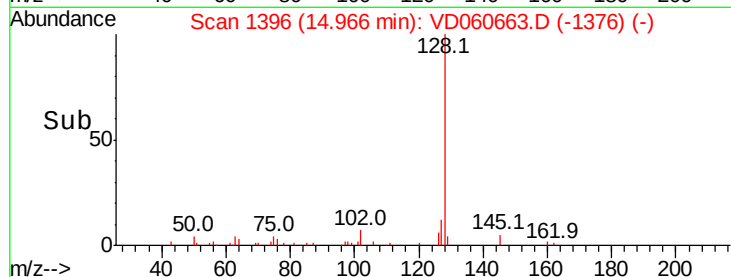
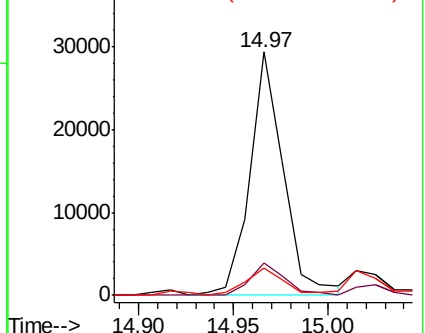
129 11.0 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 1.564 ug/l

RT: 15.11 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VD060663.D

Acq: 20 Dec 2018 17:29

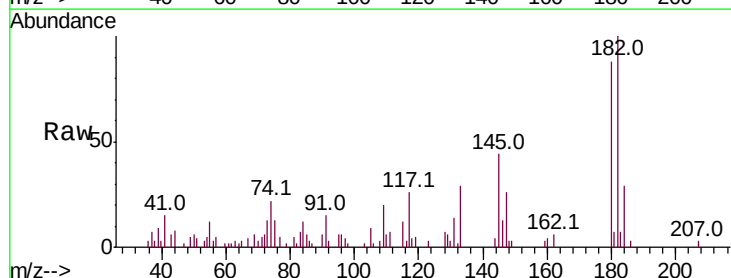
Tgt Ion:180 Resp: 20179

Ion Ratio Lower Upper

180 100

182 113.1 48.6 145.9

145 49.6 12.6 37.8#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

