

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042219\
 Data File : VD061942.D
 Acq On : 22 Apr 2019 16:50
 Operator : VA/AP
 Sample : K2203-13
 Misc : 6.91a/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 22 23:33:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	49167	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	118553	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	88628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	48685	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	55220	134.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	268.02%	
35) Dibromofluoromethane	6.92	113	54273	60.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	121.18%	
50) Toluene-d8	10.41	98	53316	25.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	50.24%	
62) 4-Bromofluorobenzene	13.55	95	37541	43.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	87.28%	

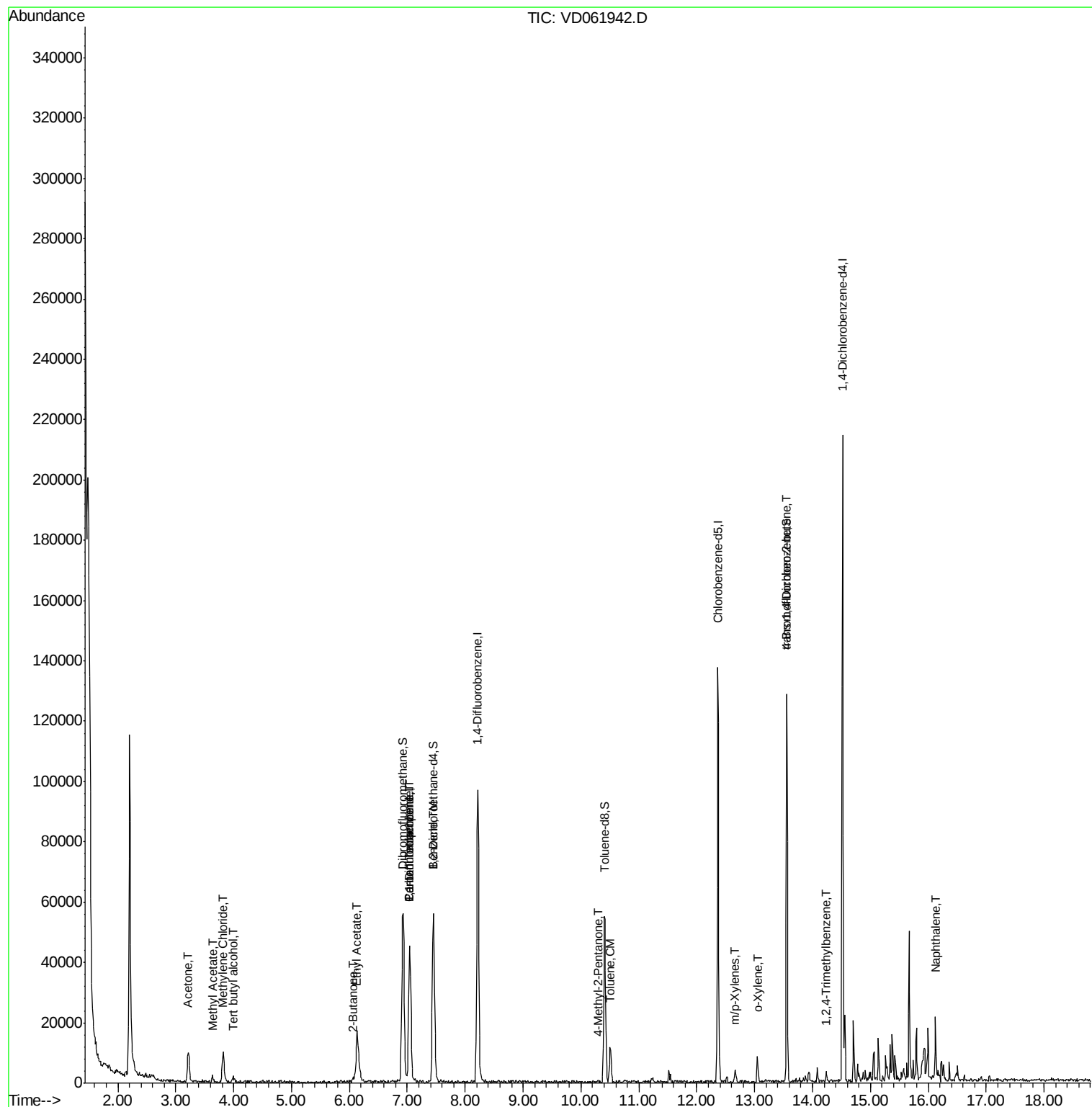
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	193	Below Cal	#	12
11) Tert butyl alcohol	3.98	59	1366	56.213	ug/l #	76
16) Acetone	3.22	43	18160	178.813	ug/l	92
18) Methyl Acetate	3.64	43	3479	17.091	ug/l #	88
20) Methylene Chloride	3.82	84	7050	10.326	ug/l #	87
25) 2-Butanone	6.06	43	3362	29.078	ug/l #	56
36) 1,1-Dichloropropene	7.04	75	3018	3.115	ug/l #	40
37) Ethyl Acetate	6.14	43	629	1.517	ug/l #	64
38) Carbon Tetrachloride	7.04	117	4096	3.348	ug/l #	12
40) Benzene	7.45	78	2493	1.072	ug/l #	51
51) 4-Methyl-2-Pentanone	10.30	43	663	1.858	ug/l #	37
52) Toluene	10.50	92	7686	5.157	ug/l	86
68) m/p-Xylenes	12.66	106	1668	1.680	ug/l	82
69) o-Xylene	13.05	106	2671	2.862	ug/l	84
81) trans-1,4-Dichloro-2-buten	13.55	75	14477	68.539	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	3302	1.311	ug/l	82
95) Naphthalene	16.12	128	12296	11.137	ug/l #	96

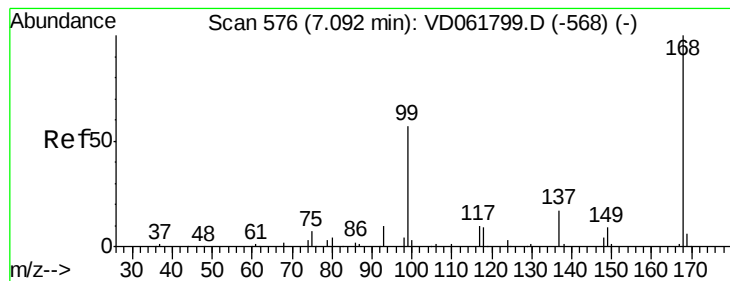
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 18 13:49:04 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

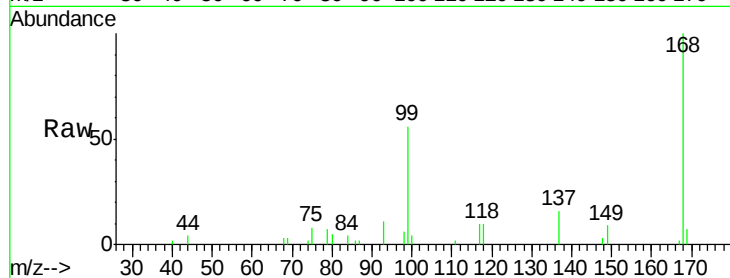
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 49167

Ion Ratio Lower Upper

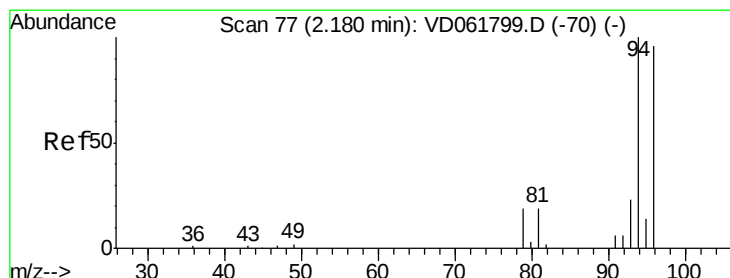
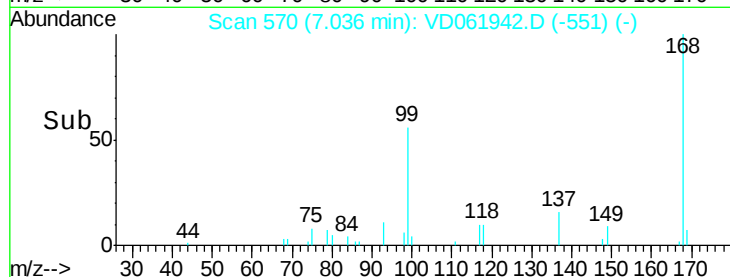
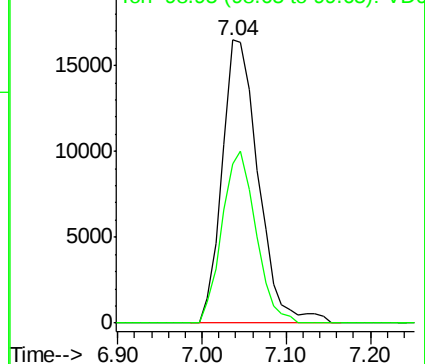
168 100

99 56.1 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: 2.13 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

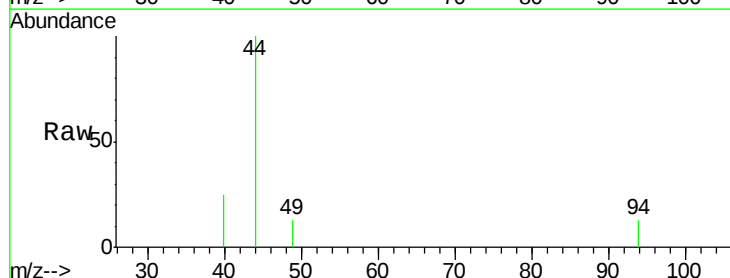
Tgt Ion: 94 Resp: 193

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

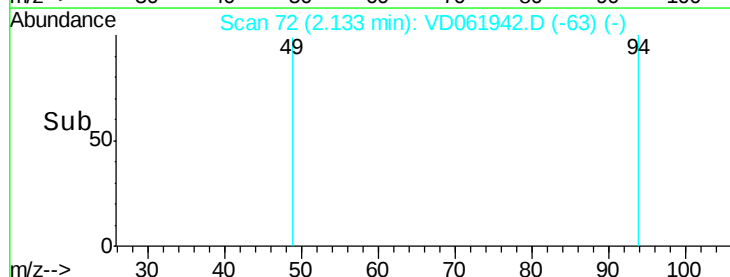
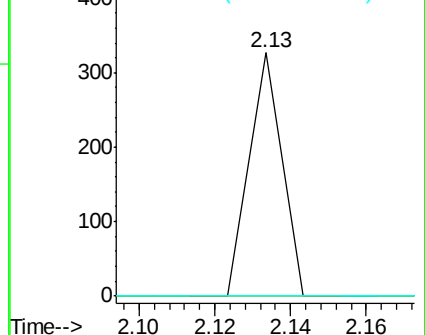
93 0.0 18.5 27.7#

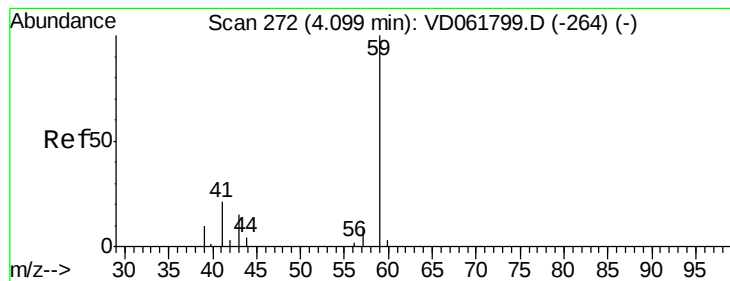


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



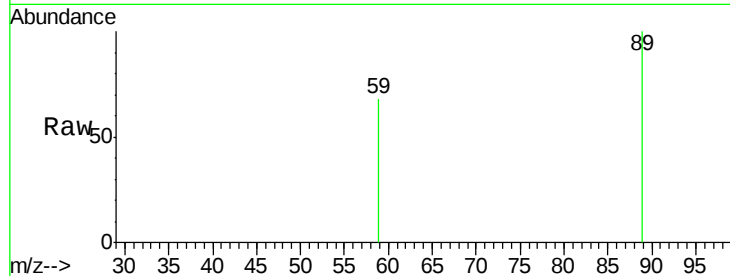


#11

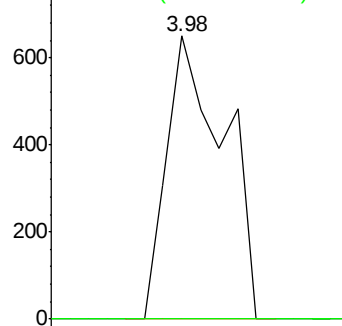
Tert butyl alcohol
 Concen: 56.213 ug/l
 RT: 3.98 min Scan# 260
 Delta R.T. -0.07 min
 Lab File: VD061942.D
 Acq: 22 Apr 2019 16:50

Instrument :
 MSVOA_D
 ClientSampled :

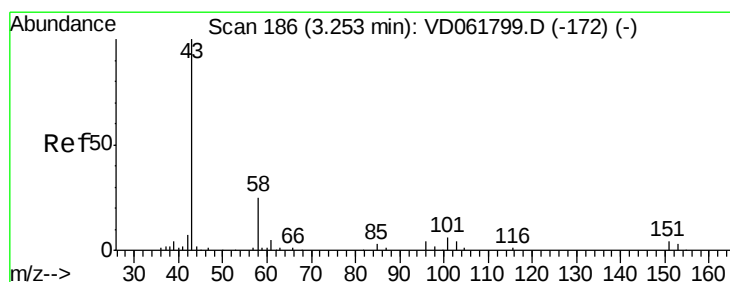
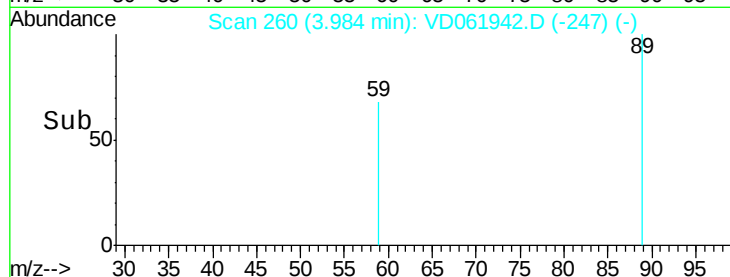
Tot Ion: 59 Resp: 1366
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



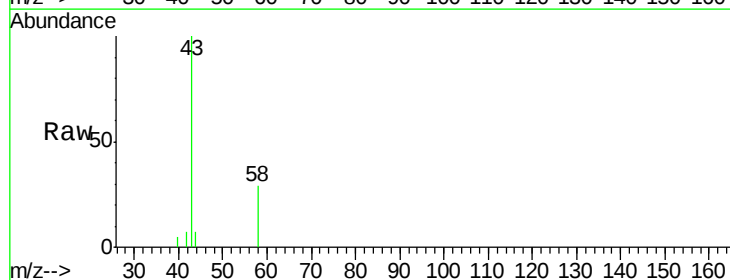
Time-->



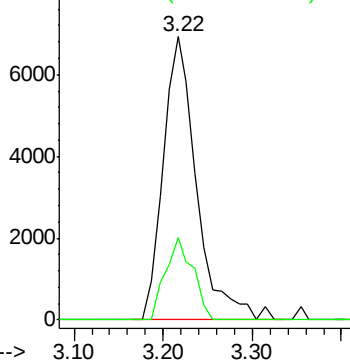
#16

Acetone
 Concen: 178.813 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. 0.00 min
 Lab File: VD061942.D
 Acq: 22 Apr 2019 16:50

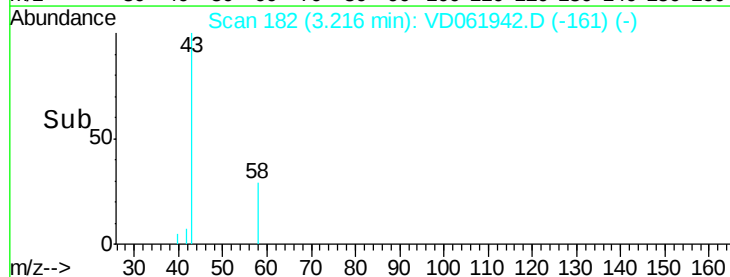
Tgt Ion: 43 Resp: 18160
 Ion Ratio Lower Upper
 43 100
 58 29.1 19.9 29.9

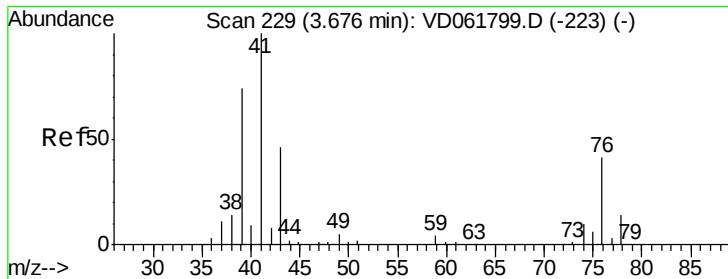


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC



Time-->

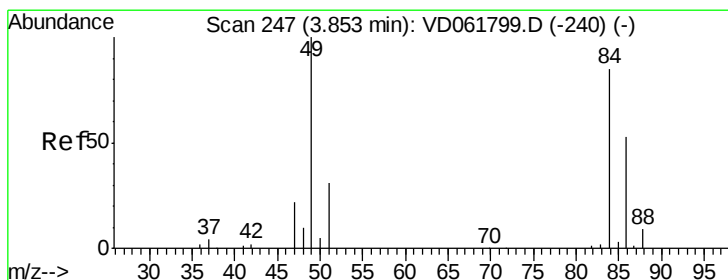
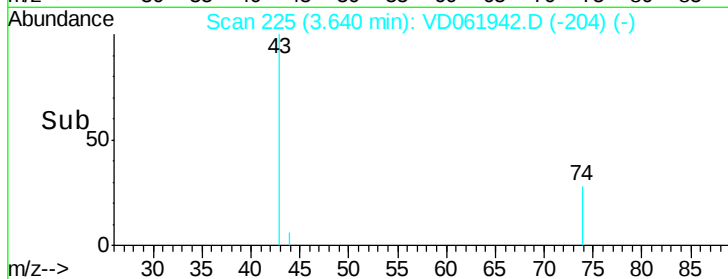
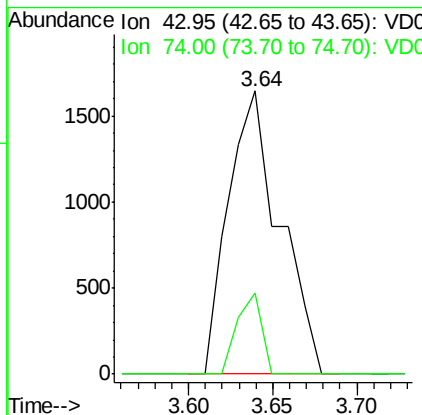
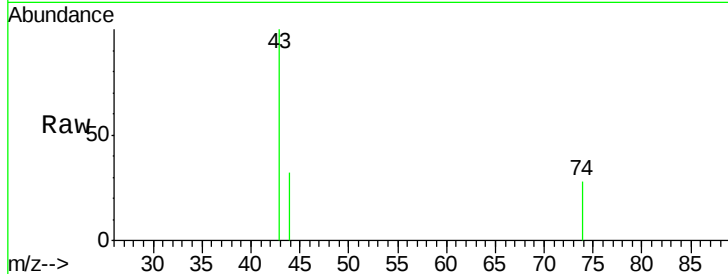




#18
Methyl Acetate
Concen: 17.091 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.00 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

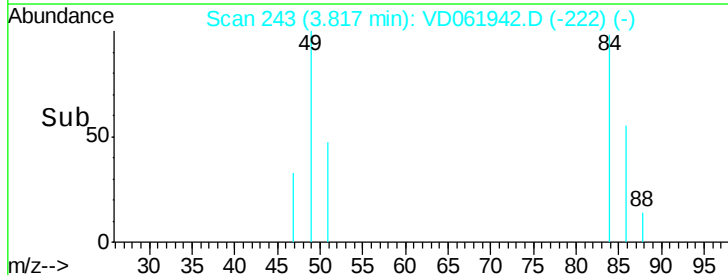
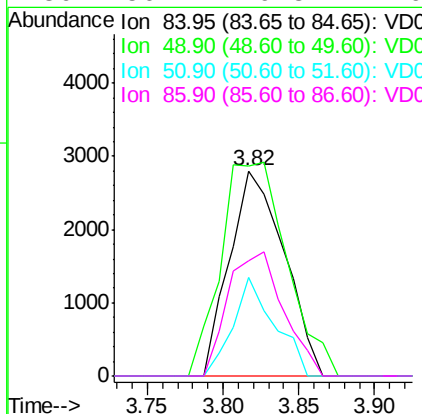
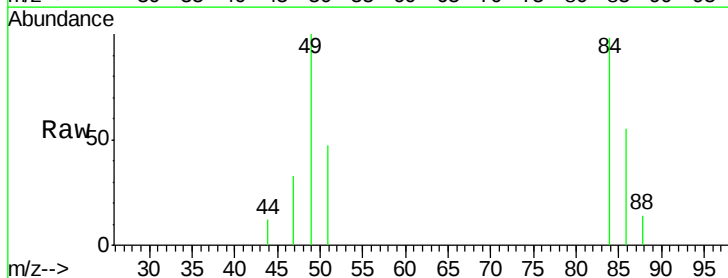
Instrument :
MSVOA_D
ClientSampleId :

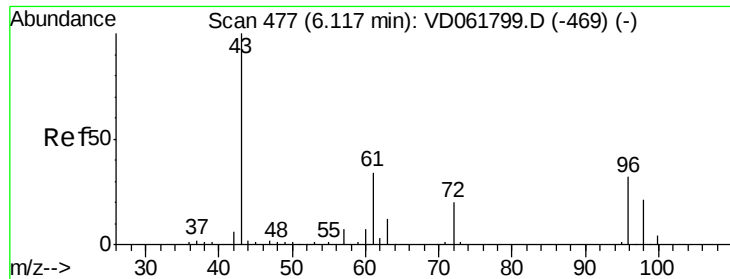
Tot Ion: 43 Resp: 3479
Ion Ratio Lower Upper
43 100
74 28.5 18.0 27.0#



#20
Methylene Chloride
Concen: 10.326 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.00 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Tgt Ion: 84 Resp: 7050
Ion Ratio Lower Upper
84 100
49 102.1 94.0 141.0
51 48.3 29.0 43.4#
86 56.2 49.8 74.6

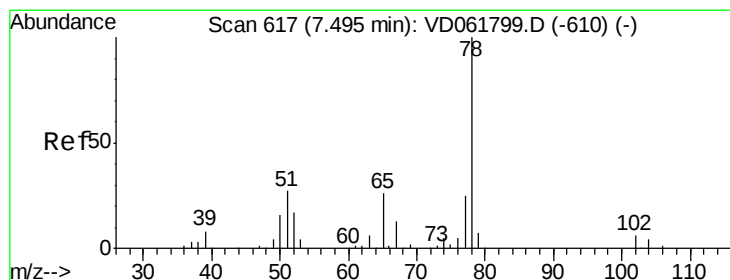
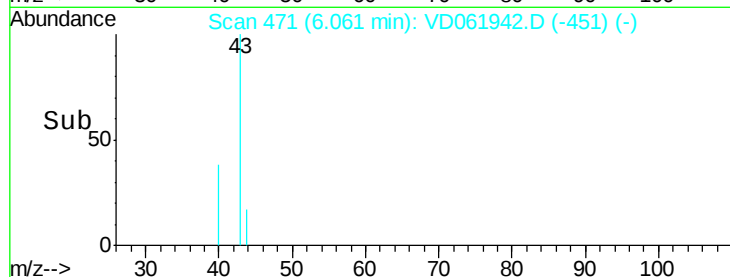
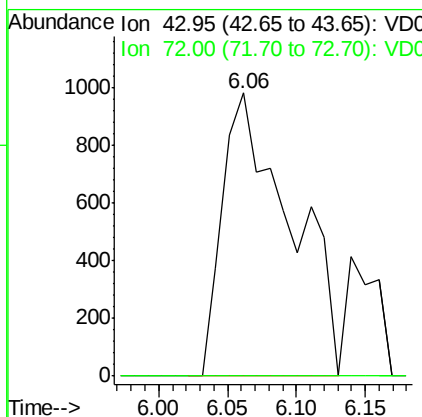
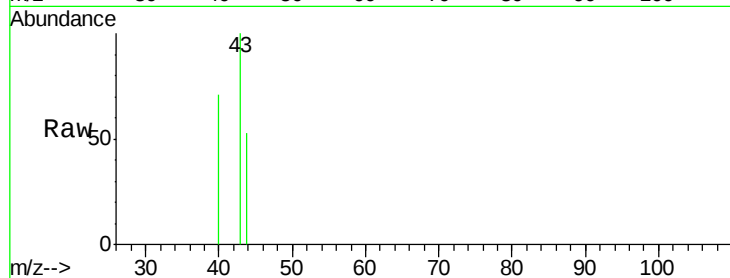




#25
 2-Butanone
 Concen: 29.078 ug/l
 RT: 6.06 min Scan# 471
 Delta R.T. -0.01 min
 Lab File: VD061942.D
 Acq: 22 Apr 2019 16:50

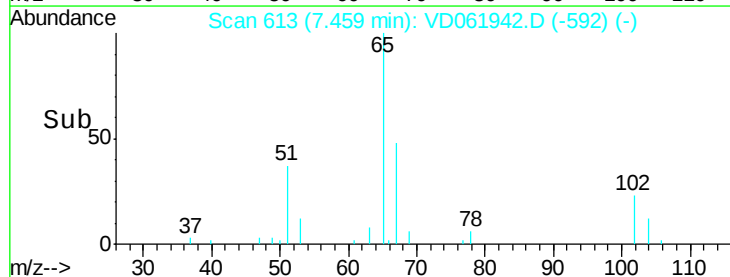
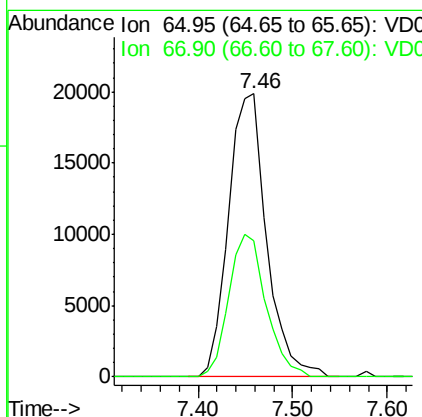
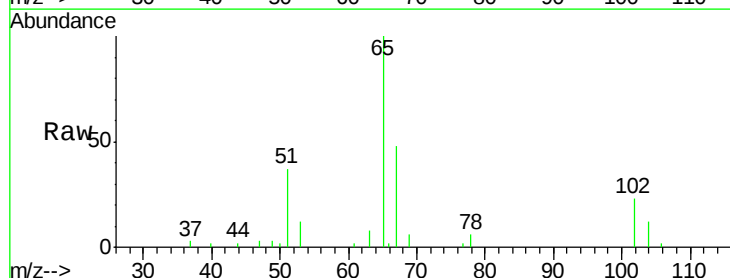
Instrument :
 MSVOA_D
 ClientSampled :

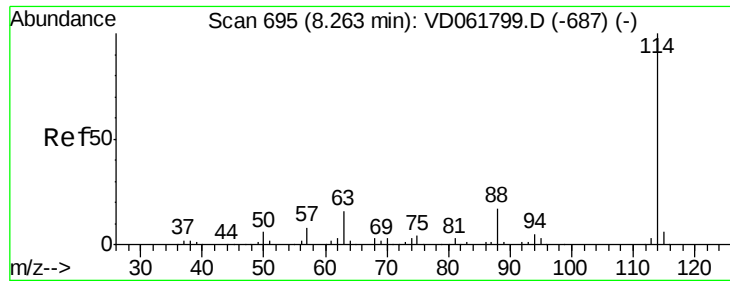
Tot Ion: 43 Resp: 3362
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.2 24.4#



#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VD061942.D
 Acq: 22 Apr 2019 16:50

Tgt Ion: 65 Resp: 55220
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 98.0

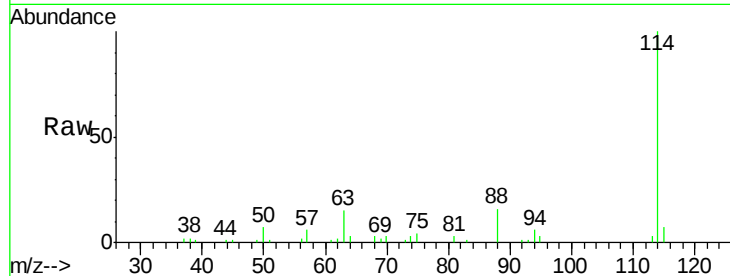




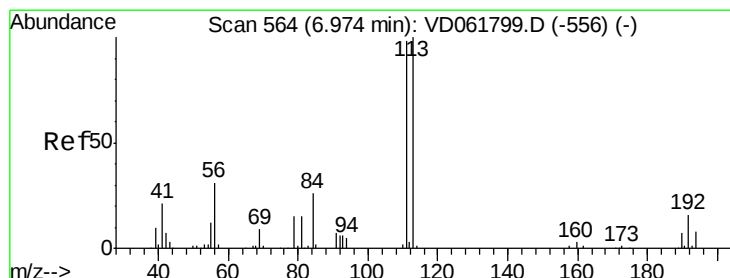
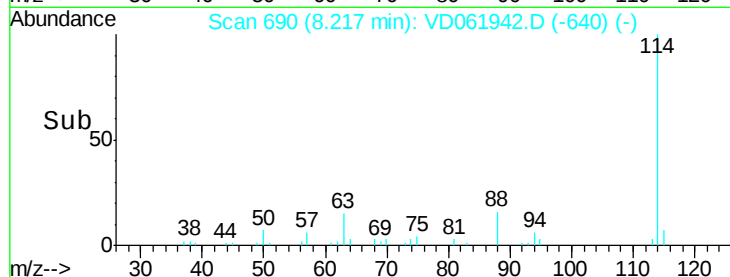
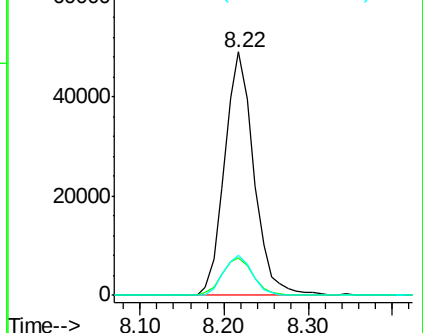
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061942.D
 Acq: 22 Apr 2019 16:50

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 118553
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 32.4
 88 16.5 0.0 33.6

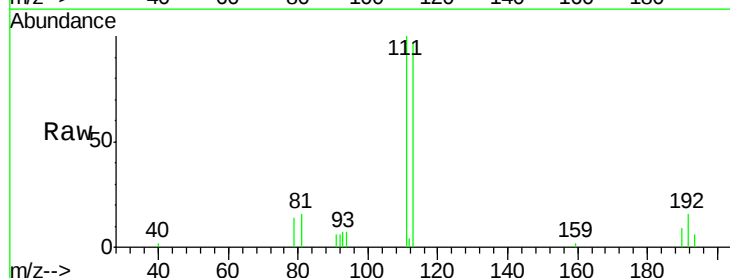


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

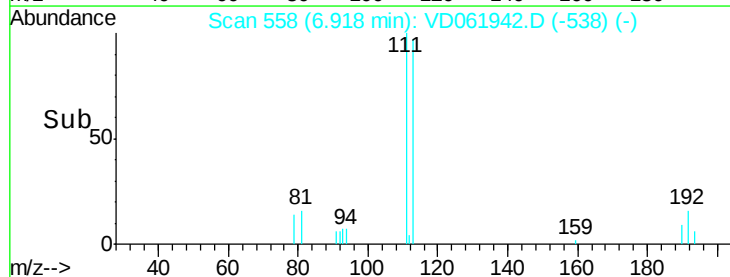
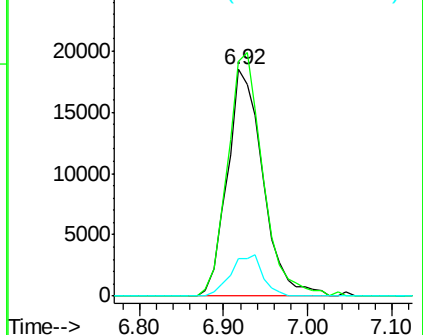


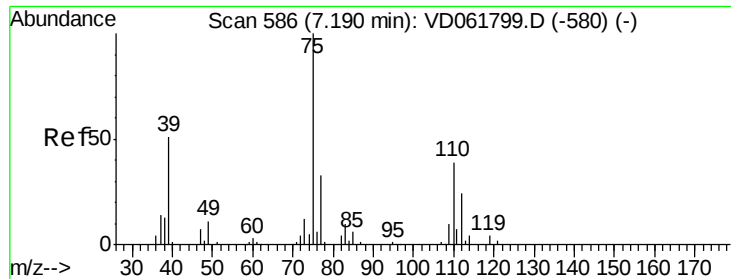
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VD061942.D
 Acq: 22 Apr 2019 16:50

Tgt Ion:113 Resp: 54273
 Ion Ratio Lower Upper
 113 100
 111 103.4 78.5 117.7
 192 16.3 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: 3.115 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

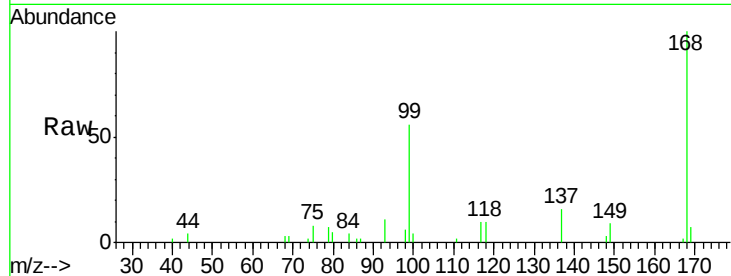
Tot Ion: 75 Resp: 3018

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

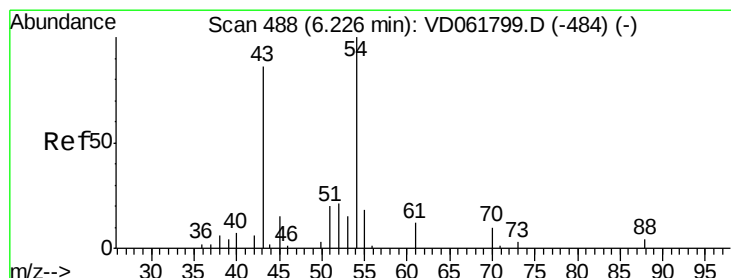
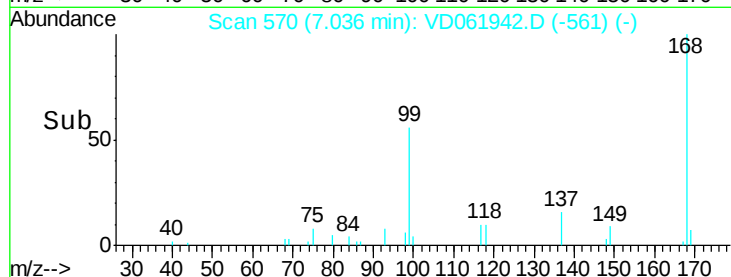
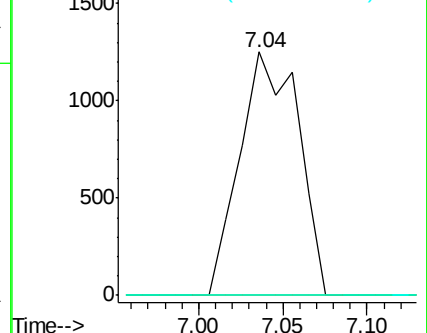
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.517 ug/l

RT: 6.14 min Scan# 479

Delta R.T. -0.04 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

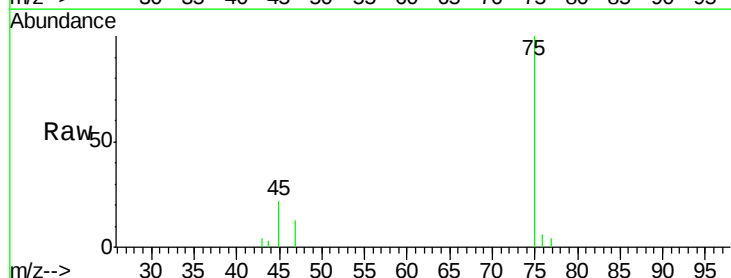
Tgt Ion: 43 Resp: 629

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

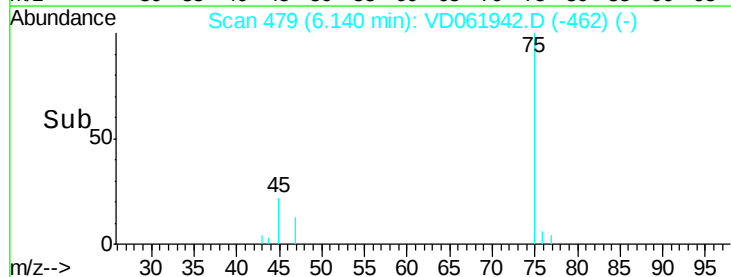
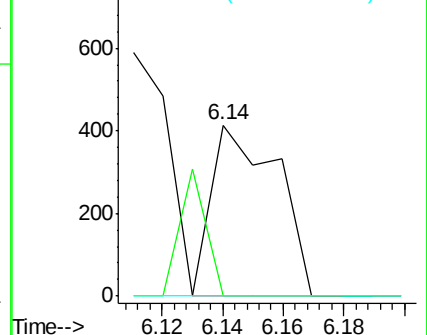
70 0.0 7.8 11.6#

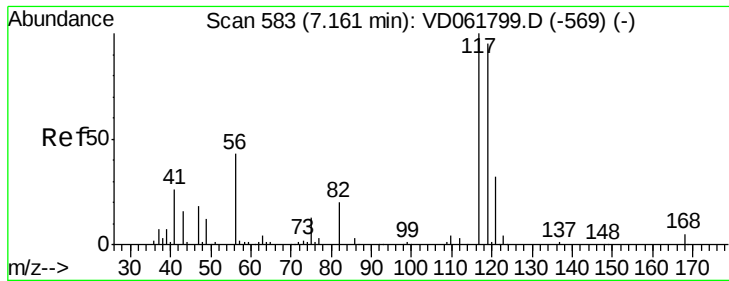


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 3.348 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.07 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

Instrument :

MSVOA_D

ClientSampled :

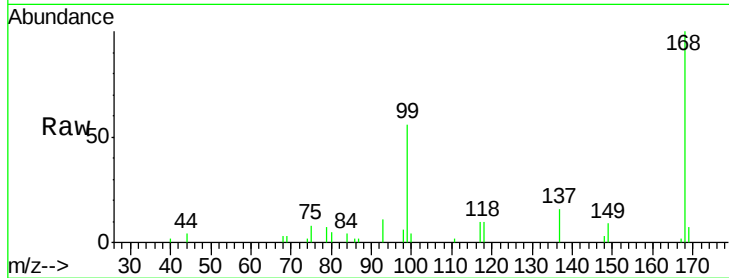
Tot Ion:117 Resp: 4096

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

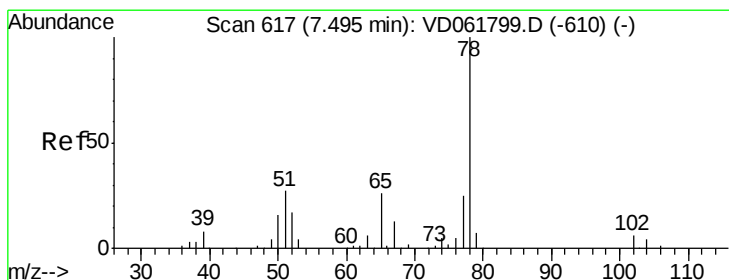
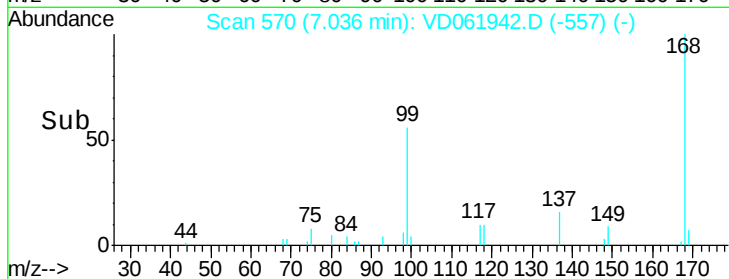
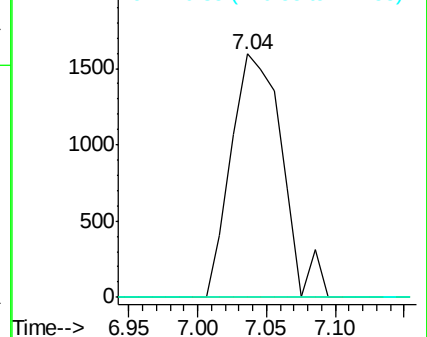
121 0.0 25.9 38.9#



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



#40

Benzene

Concen: 1.072 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061942.D

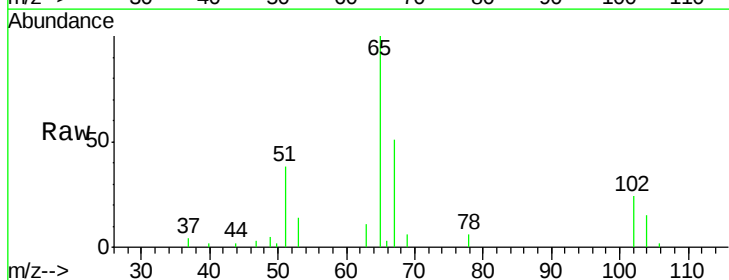
Acq: 22 Apr 2019 16:50

Tgt Ion: 78 Resp: 2493

Ion Ratio Lower Upper

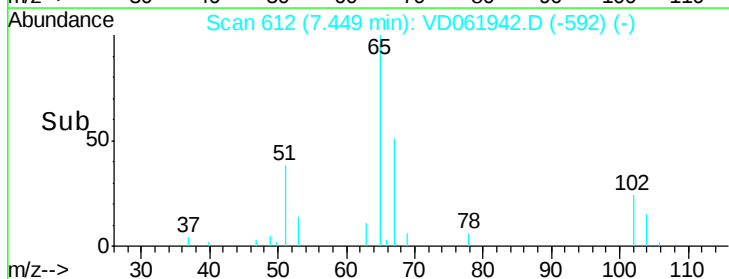
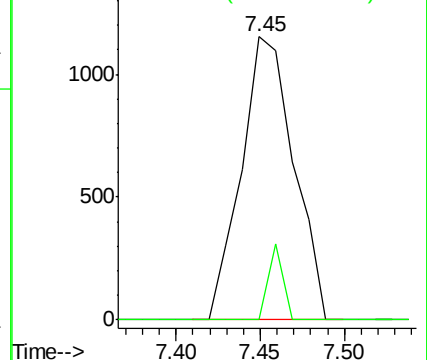
78 100

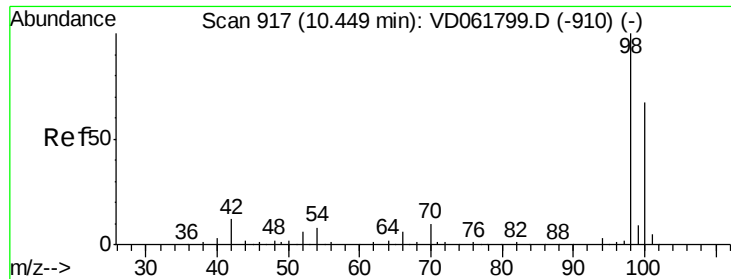
77 0.0 19.7 29.5#



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V

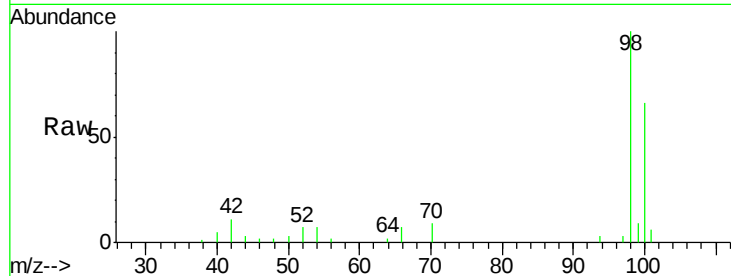




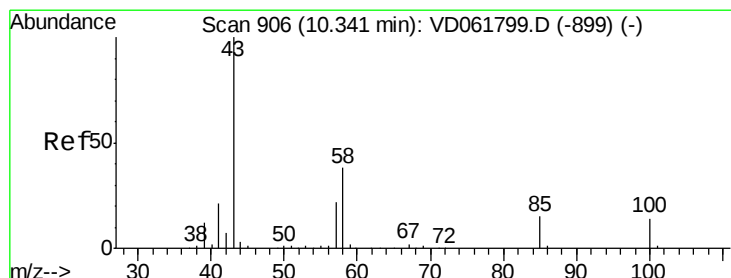
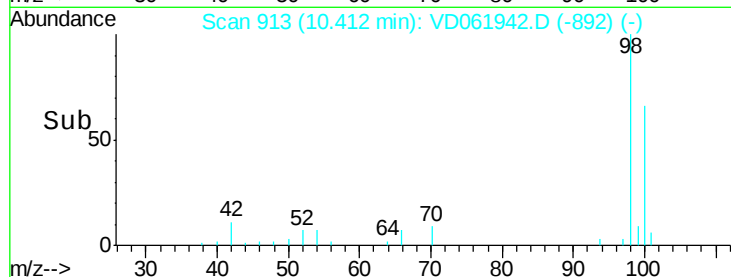
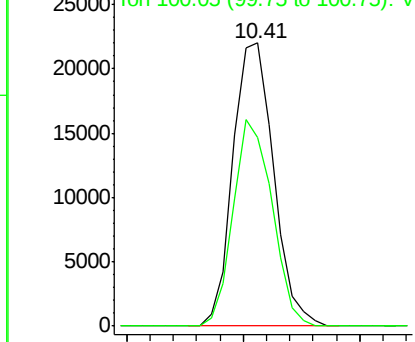
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 53316
Ion Ratio Lower Upper
98 100
100 66.5 53.8 80.8

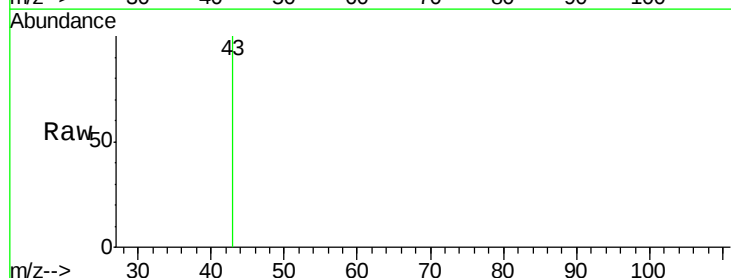


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

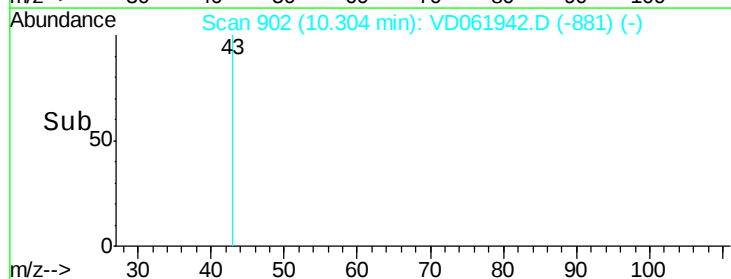
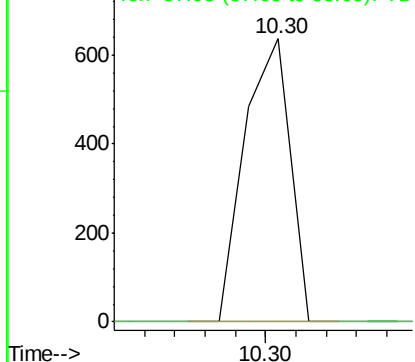


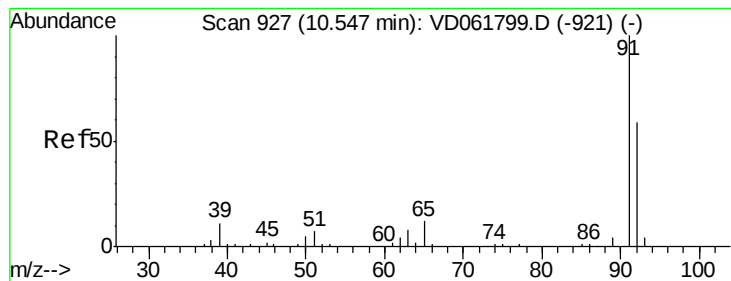
#51
4-Methyl-2-Pentanone
Concen: 1.858 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.00 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Tgt Ion: 43 Resp: 663
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061799.D (-899) (-)
Ion 57.95 (57.65 to 58.65): VD061799.D (-899) (-)





#52

Toluene

Concen: 5.157 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

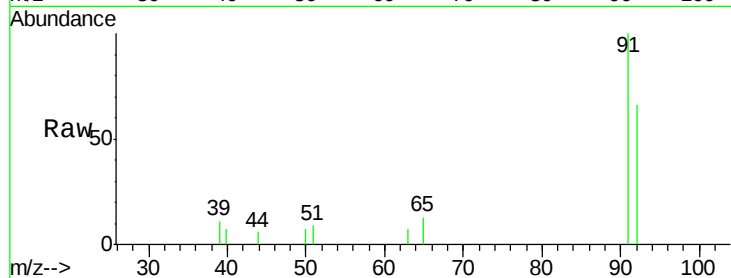
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 7686

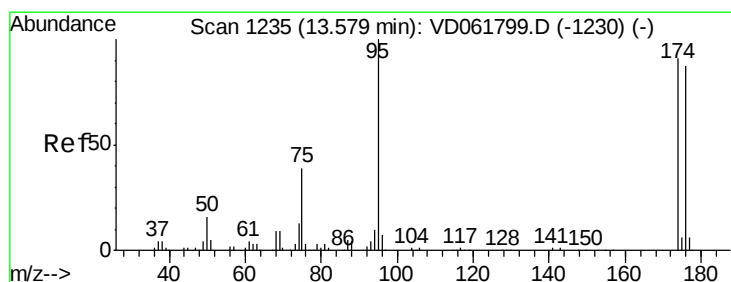
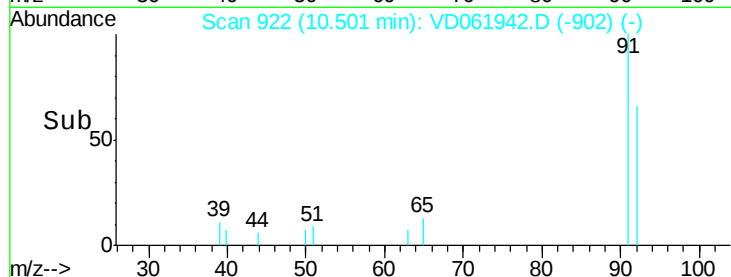
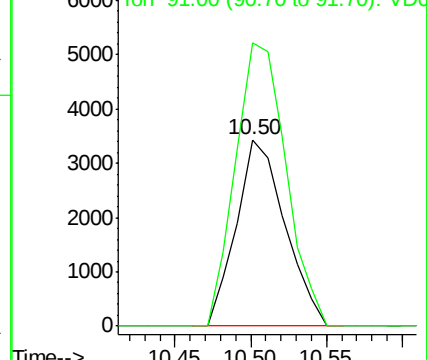
Ion Ratio Lower Upper

92 100

91 151.8 136.6 204.8



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: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

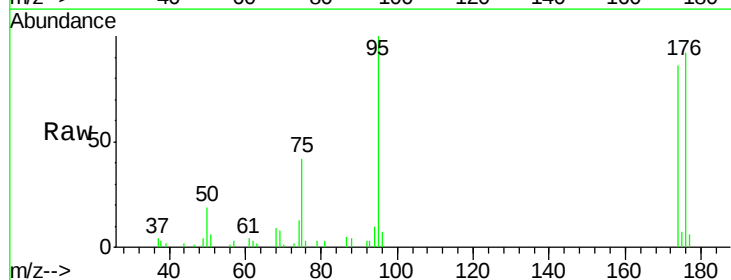
Tgt Ion: 95 Resp: 37541

Ion Ratio Lower Upper

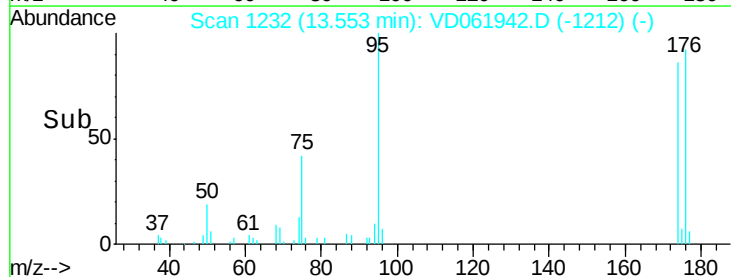
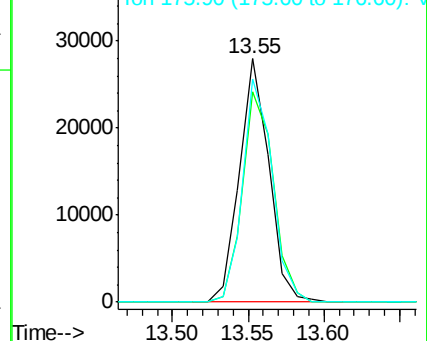
95 100

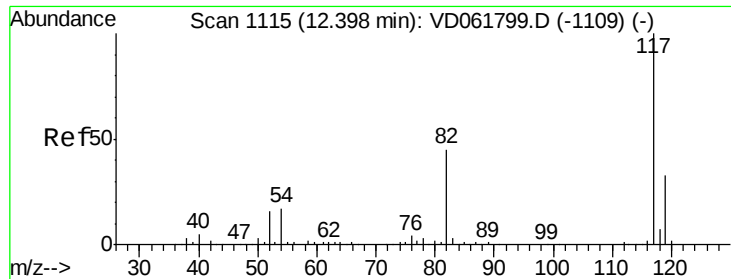
174 86.2 0.0 181.8

176 91.8 0.0 174.4



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

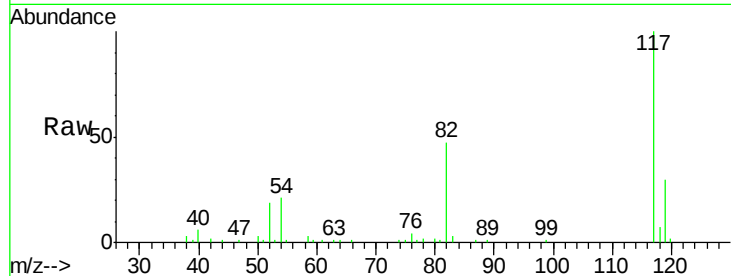




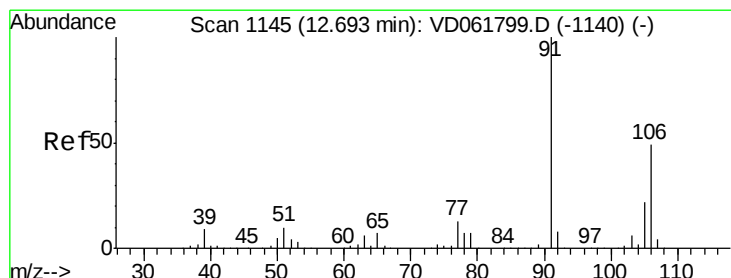
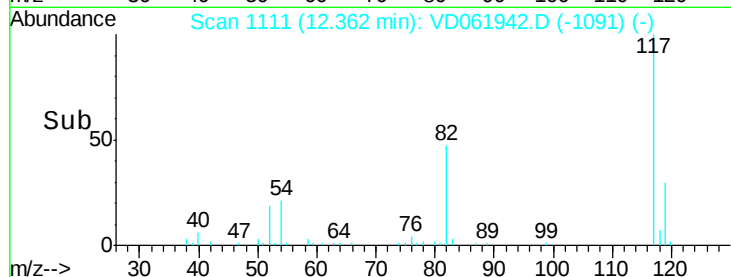
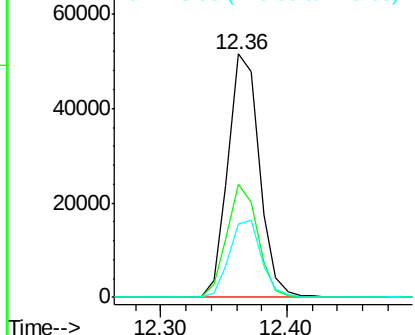
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 88628
Ion Ratio Lower Upper
117 100
82 46.5 36.2 54.2
119 30.4 26.2 39.4

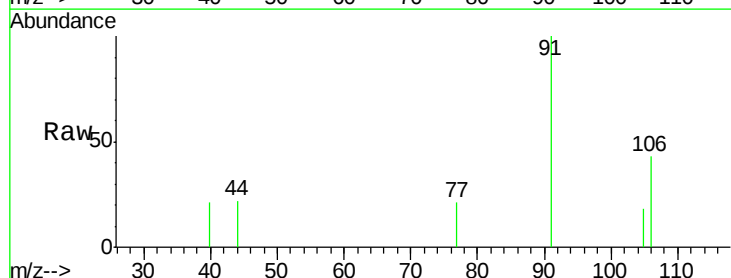


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

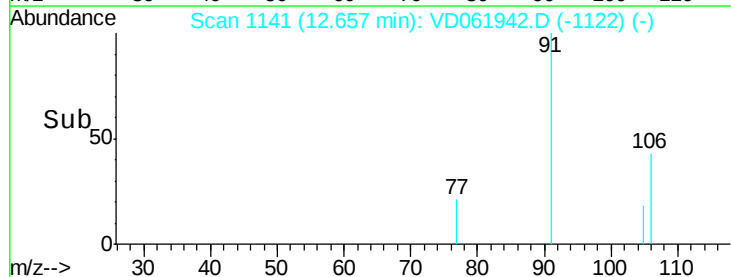
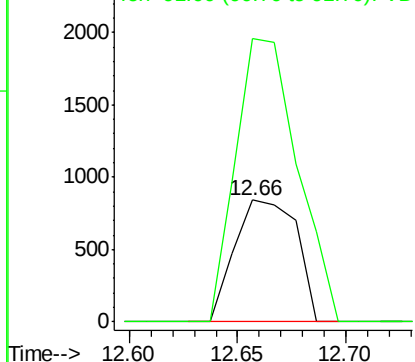


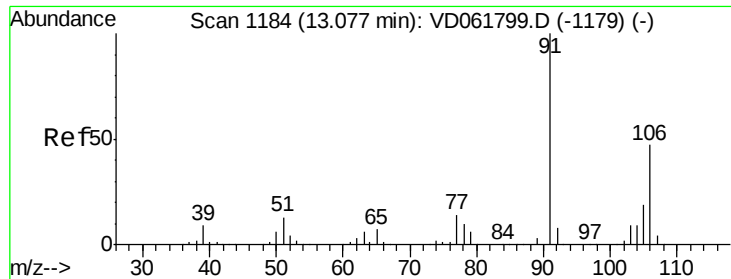
#68
m/p-Xylenes
Concen: 1.680 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Tgt Ion:106 Resp: 1668
Ion Ratio Lower Upper
106 100
91 232.4 164.0 246.0



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

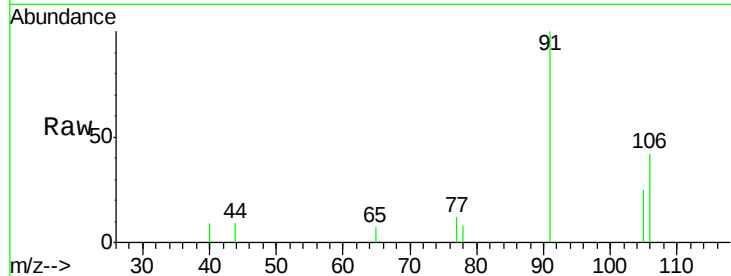




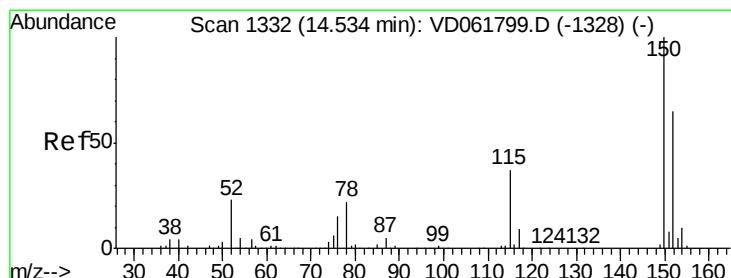
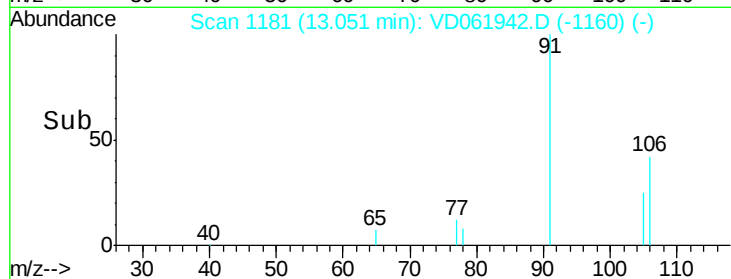
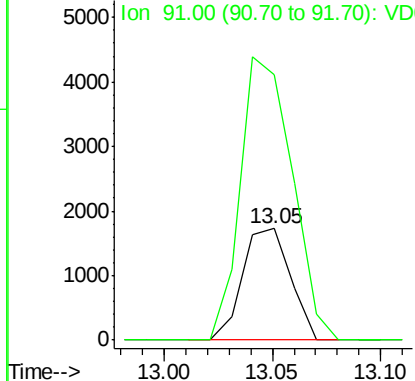
#69
o-Xylene
Concen: 2.862 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 2671
Ion Ratio Lower Upper
106 100
91 238.4 106.7 319.9

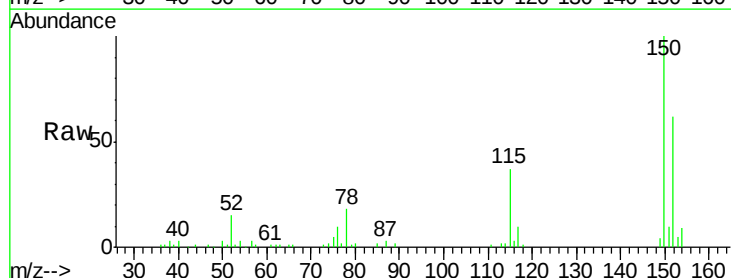


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

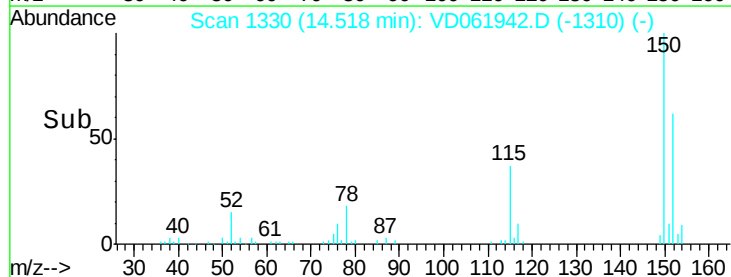
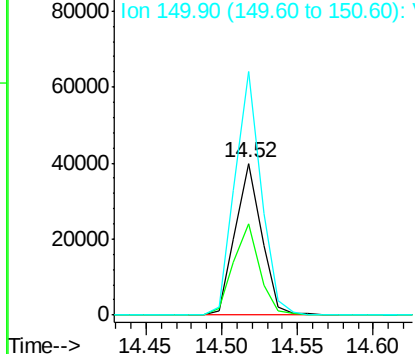


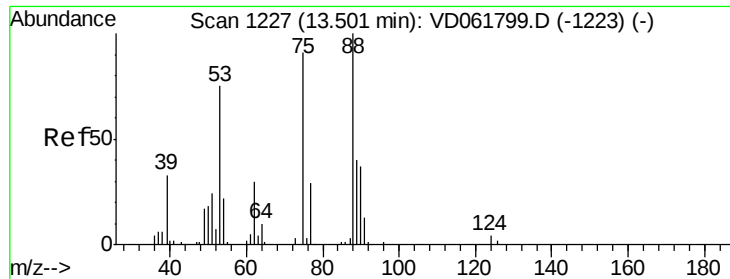
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD061942.D
Acq: 22 Apr 2019 16:50

Tgt Ion:152 Resp: 48685
Ion Ratio Lower Upper
152 100
115 60.0 30.9 92.7
150 160.3 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: 68.539 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :

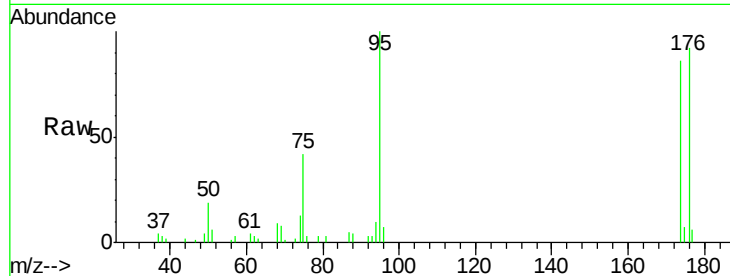
Tot Ion: 75 Resp: 14477

Ion Ratio Lower Upper

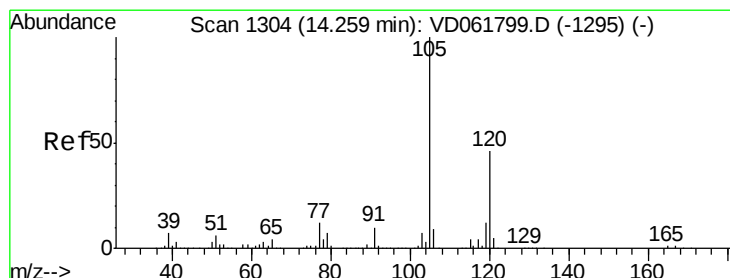
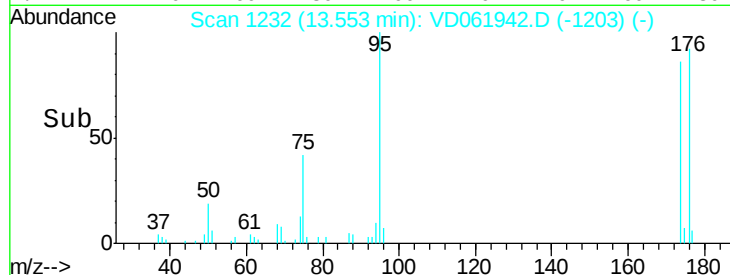
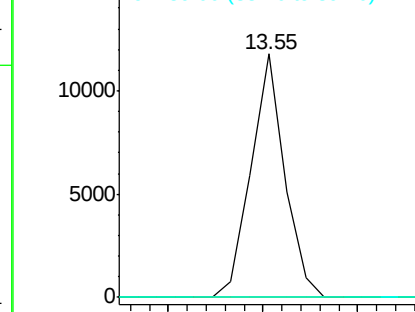
75 100

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



#84

1,2,4-Trimethylbenzene

Concen: 1.311 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD061942.D

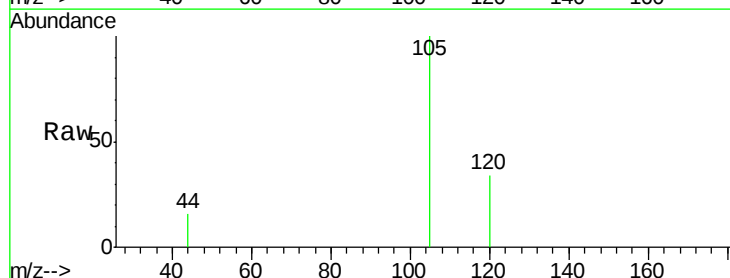
Acq: 22 Apr 2019 16:50

Tgt Ion:105 Resp: 3302

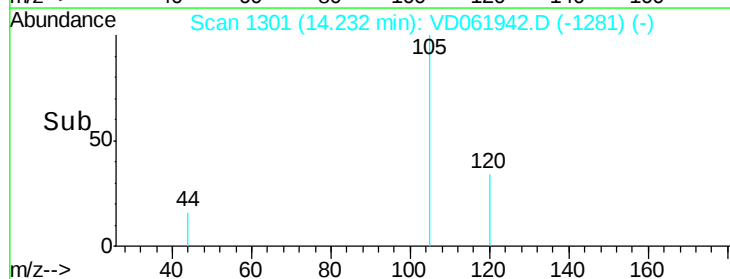
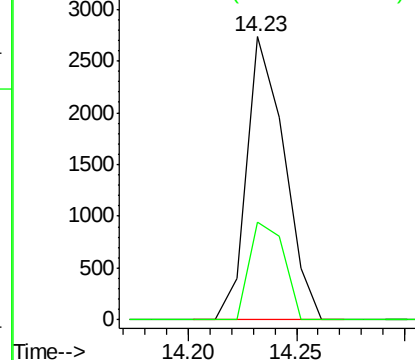
Ion Ratio Lower Upper

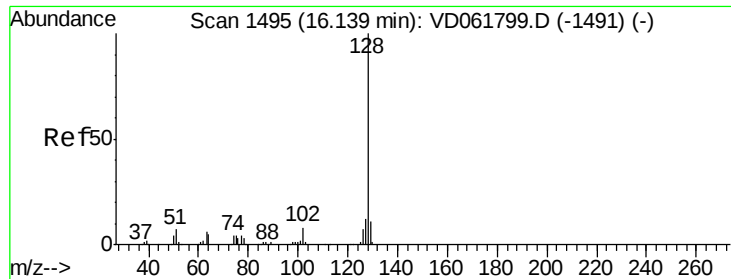
105 100

120 34.4 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 11.137 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.01 min

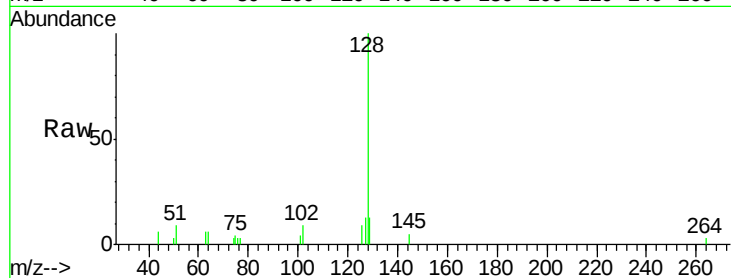
Lab File: VD061942.D

Acq: 22 Apr 2019 16:50

Instrument :

MSVOA_D

ClientSampleId :



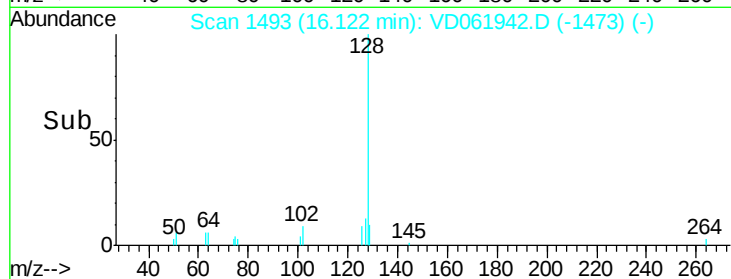
Tot Ion:128 Resp: 12296

Ion Ratio Lower Upper

128 100

127 13.2 9.8 14.8

129 13.3 8.8 13.2#



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

