

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\
 Data File : VD061373.D
 Acq On : 28 Mar 2019 2:42
 Operator : VA/AP
 Sample : K2097-01
 Misc : 3.37g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-20

Quant Time: Mar 28 05:43:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 02:13:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	256077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	280746	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	74466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	10694	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	65859	30.11	ug/l	0.00
Spiked Amount			Recovery	=	60.22%	
35) Dibromofluoromethane	6.91	113	111090	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
50) Toluene-d8	10.38	98	132798	25.81	ug/l	0.00
Spiked Amount			Recovery	=	51.62%	
62) 4-Bromofluorobenzene	13.54	95	12320	6.24	ug/l	0.00
Spiked Amount			Recovery	=	12.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.31	142	397	3.542	ug/l #	38
11) Tert butyl alcohol	4.04	59	483	3.545	ug/l #	76
16) Acetone	3.21	43	868	1.544	ug/l #	48
20) Methylene Chloride	3.80	84	11795	1.897	ug/l	91
31) Cyclohexane	7.01	56	4189	1.112	ug/l #	1
36) 1,1-Dichloropropene	7.01	75	16894	6.895	ug/l #	46
38) Carbon Tetrachloride	7.02	117	24360	8.731	ug/l #	13
81) trans-1,4-Dichloro-2-buten	13.54	75	4295	91.188	ug/l #	18
82) 4-Chlorotoluene	13.93	91	686	1.276	ug/l #	36
88) 1,4-Dichlorobenzene	14.52	146	569	1.562	ug/l #	61
91) 1,2-Dichlorobenzene	14.79	146	416	1.357	ug/l #	24
93) 1,2,4-Trichlorobenzene	15.93	180	194	1.390	ug/l #	11
95) Naphthalene	16.11	128	1204	5.658	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

Instrument :

MSVOA_D

ClientSampleId :

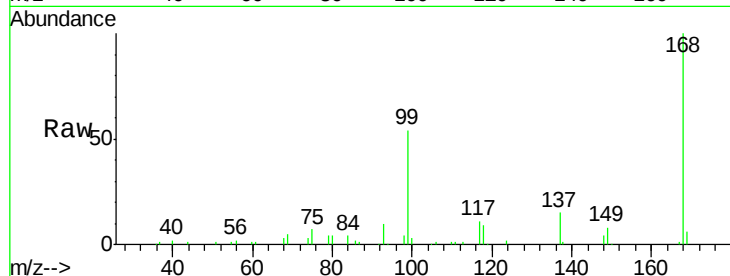
CS-20

Tot Ion:168 Resp: 256077

Ion Ratio Lower Upper

168 100

99 54.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.02

80000

60000

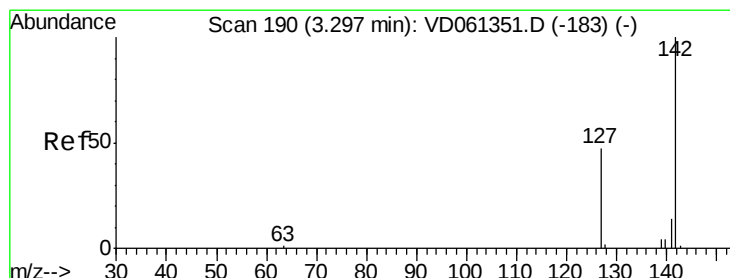
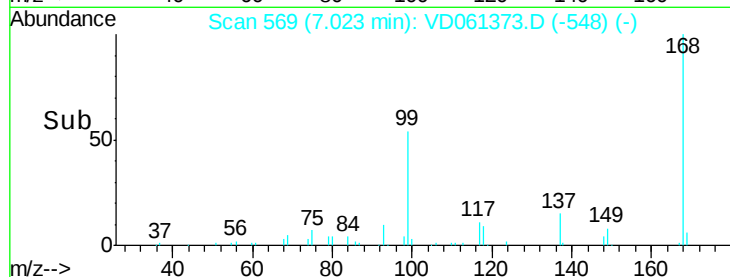
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 3.542 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.02 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

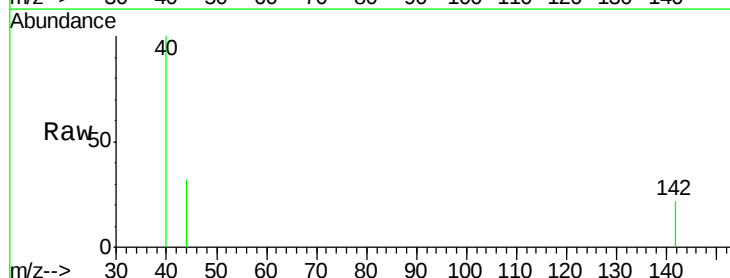
Tgt Ion:142 Resp: 397

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

141 0.0 11.5 17.3#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.31

400

300

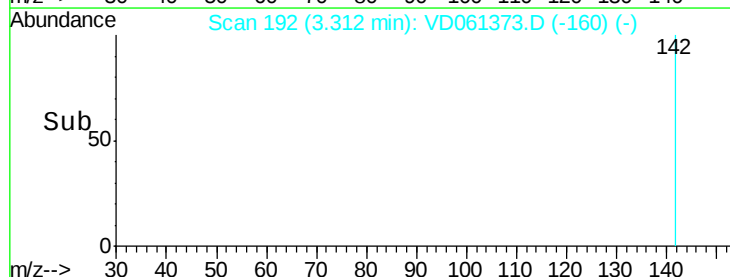
200

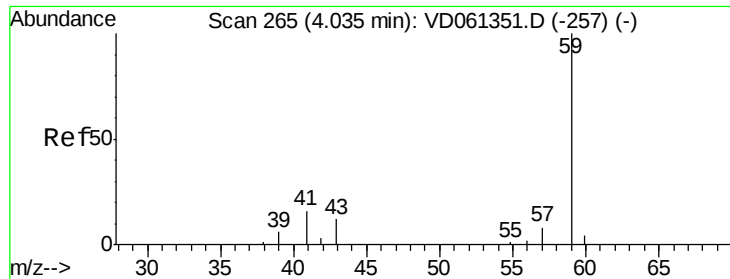
100

0

Time-->

3.28 3.30 3.32 3.34

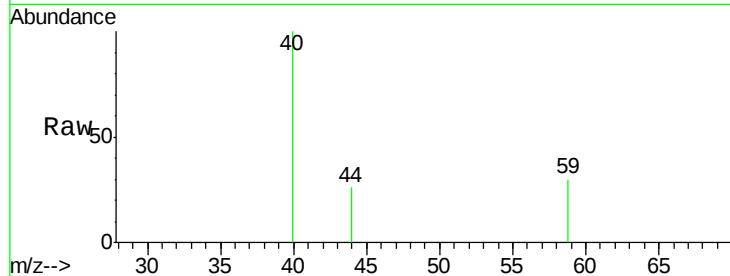




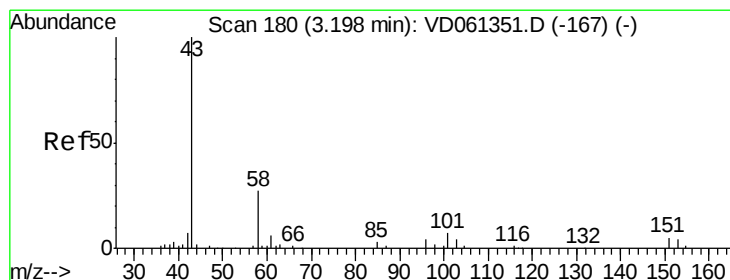
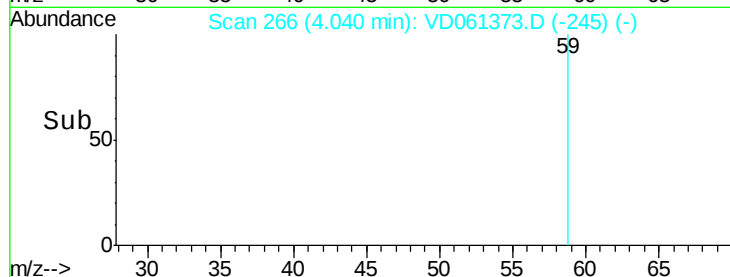
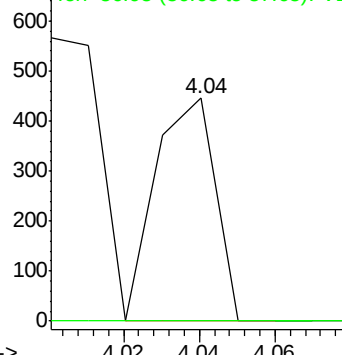
#11
Tert butyl alcohol
Concen: 3.545 ug/l
RT: 4.04 min Scan# 266
Delta R.T. 0.01 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Instrument :
MSVOA_D
ClientSampled :
CS-20

Tot Ion: 59 Resp: 483
Ion Ratio Lower Upper
59 100
57 0.0 6.7 10.1#

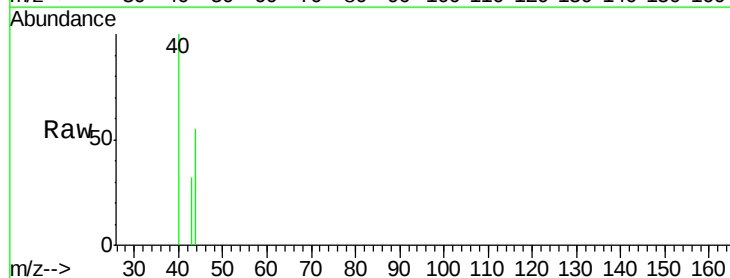


Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC

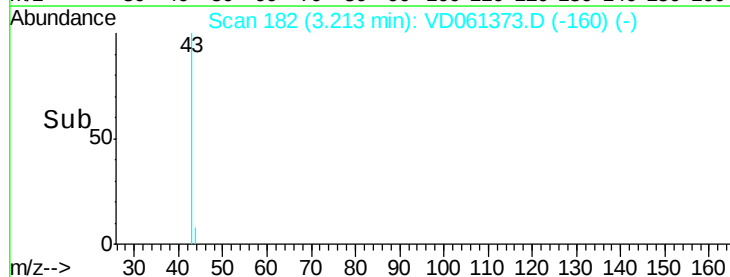
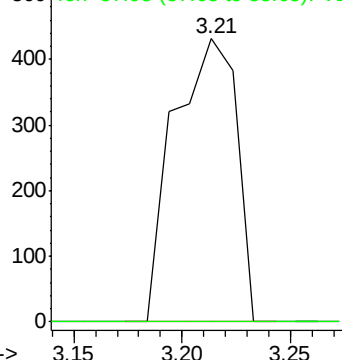


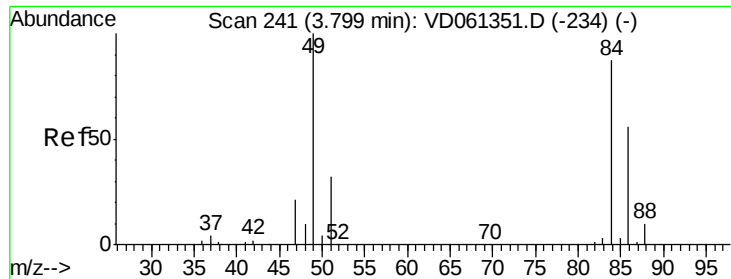
#16
Acetone
Concen: 1.544 ug/l
RT: 3.21 min Scan# 182
Delta R.T. 0.02 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Tgt Ion: 43 Resp: 868
Ion Ratio Lower Upper
43 100
58 0.0 21.5 32.3#



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

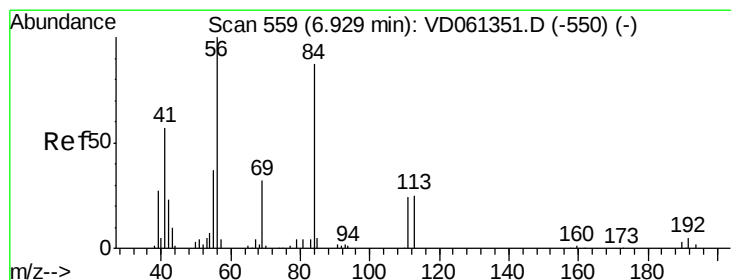
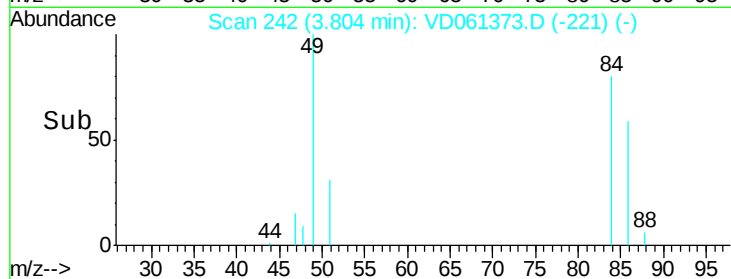
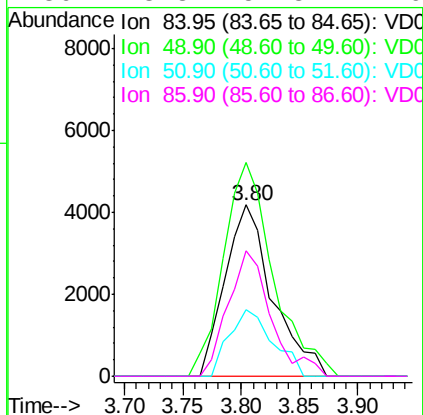
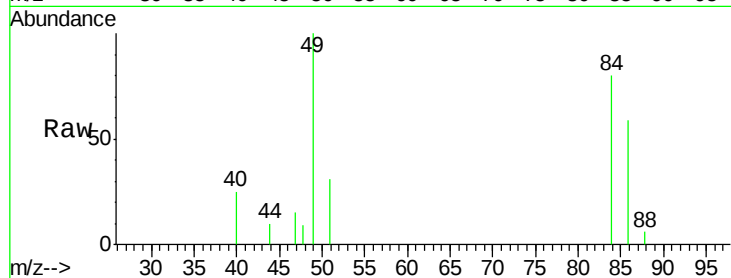




#20
Methvlene Chloride
Concen: 1.897 ug/l
RT: 3.80 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

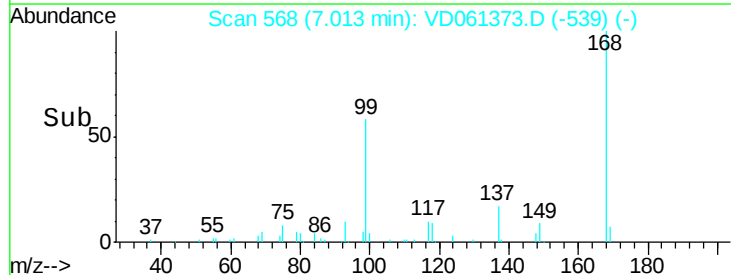
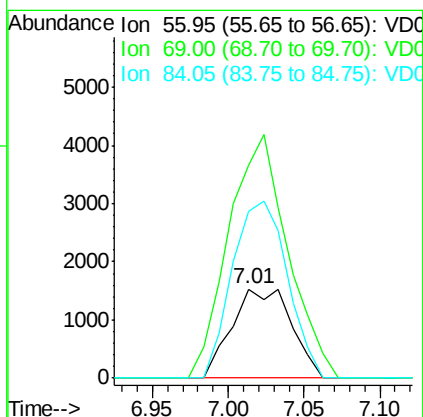
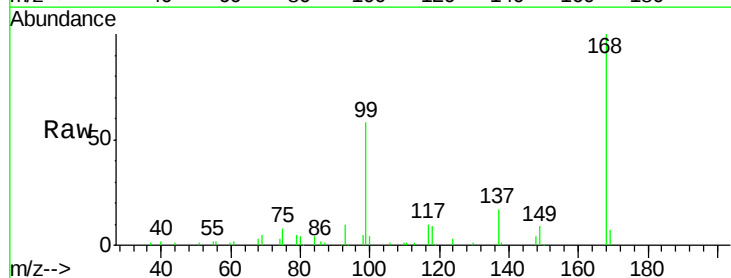
Instrument :
MSVOA_D
ClientSampleId :
CS-20

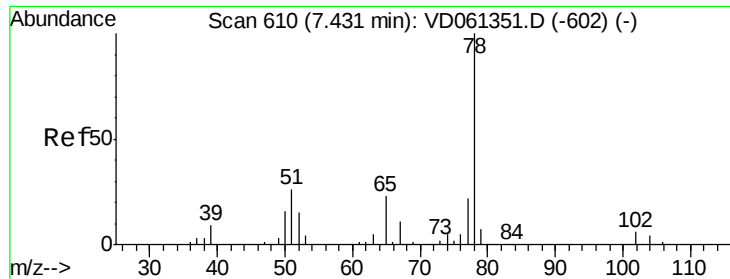
Tot Ion: 84 Resp: 11795
Ion Ratio Lower Upper
84 100
49 124.7 91.8 137.8
51 38.8 29.8 44.8
86 73.3 51.8 77.6



#31
Cyclohexane
Concen: 1.112 ug/l
RT: 7.01 min Scan# 568
Delta R.T. 0.08 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Tgt Ion: 56 Resp: 4189
Ion Ratio Lower Upper
56 100
69 240.1 25.7 38.5#
84 187.3 70.6 105.8#

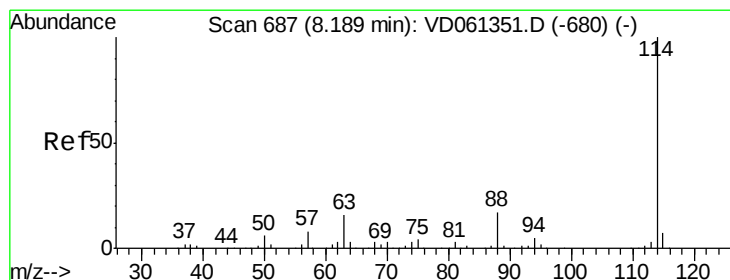
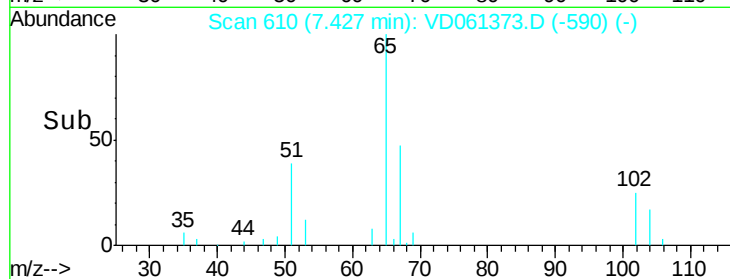
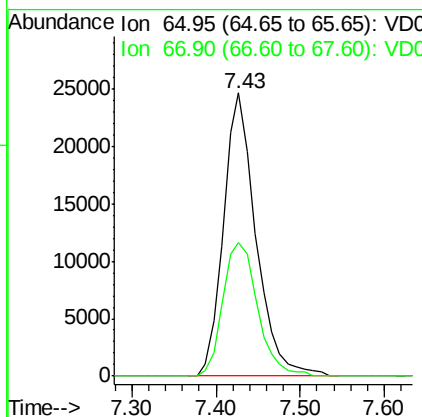
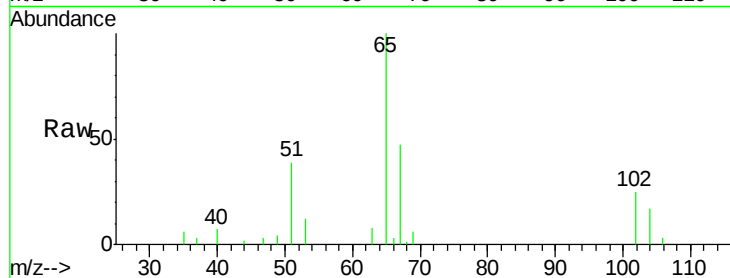




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VD061373.D
 Acq: 28 Mar 2019 2:42

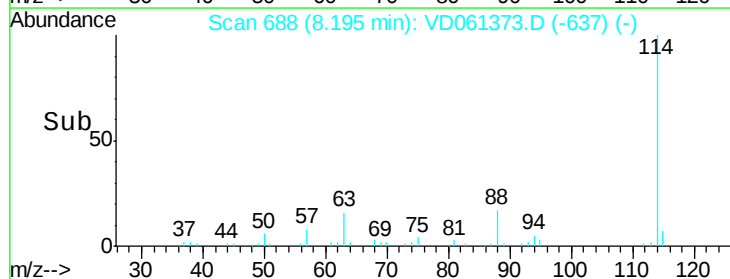
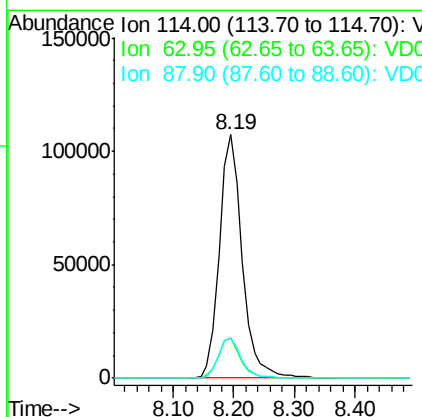
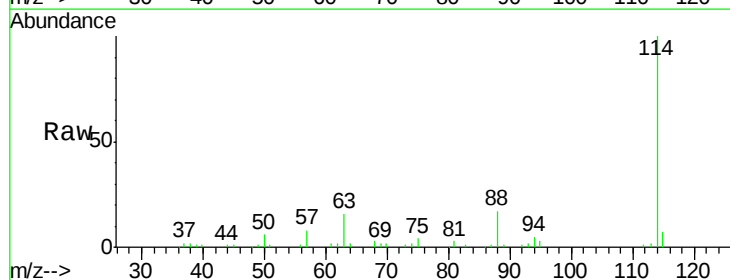
Instrument :
 MSVOA_D
 ClientSampled :
 CS-20

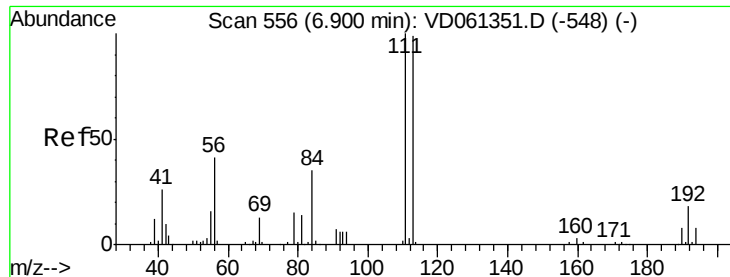
Tot Ion: 65 Resp: 65859
 Ion Ratio Lower Upper
 65 100
 67 47.0 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 688
 Delta R.T. 0.01 min
 Lab File: VD061373.D
 Acq: 28 Mar 2019 2:42

Tgt Ion: 114 Resp: 280746
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 31.6
 88 16.6 0.0 33.4

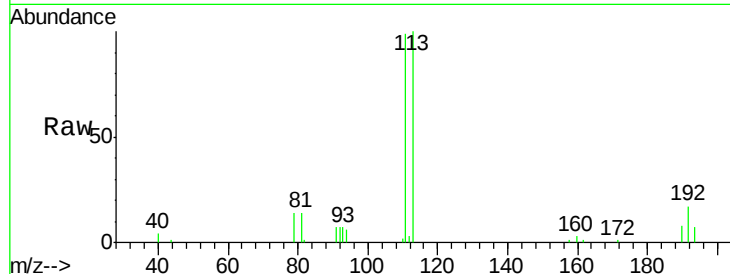




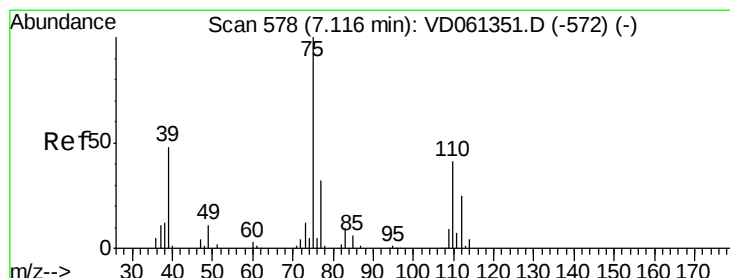
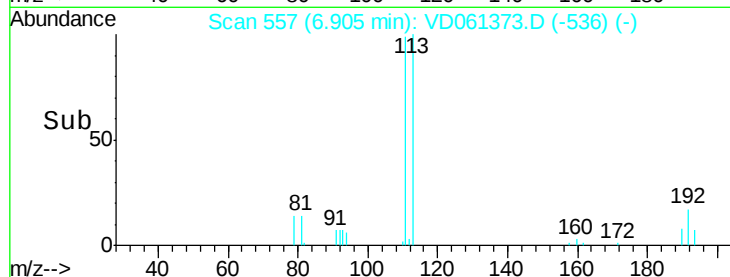
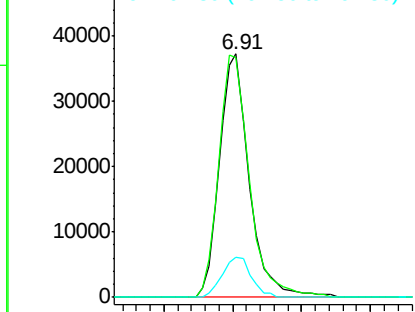
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.91 min Scan# 557
Delta R.T. 0.01 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Instrument :
MSVOA_D
ClientSampleId :
CS-20

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.7	81.0	121.6
192	16.5	14.4	21.6

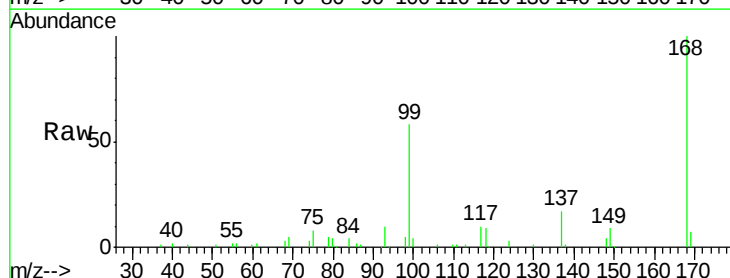


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

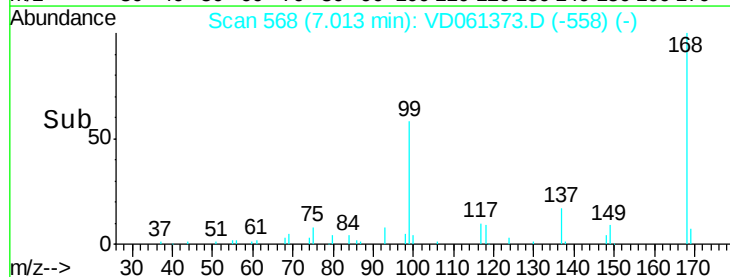
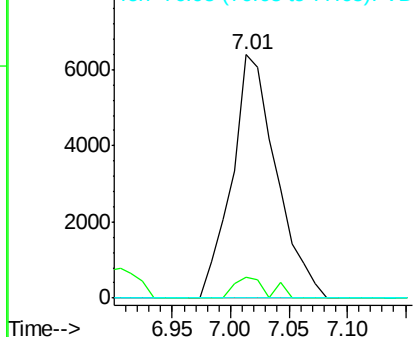


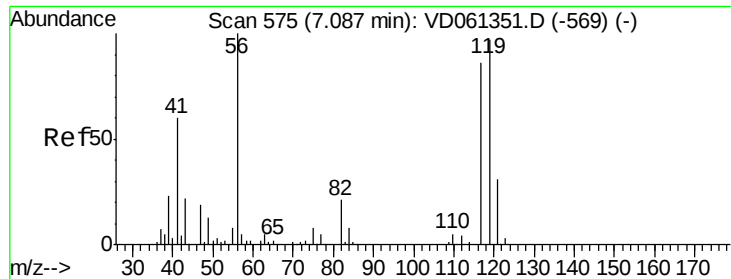
#36
1,1-Dichloropropene
Concen: 6.895 ug/l
RT: 7.01 min Scan# 568
Delta R.T. -0.10 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	20.4	61.3#
77	0.0	24.9	37.3#



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

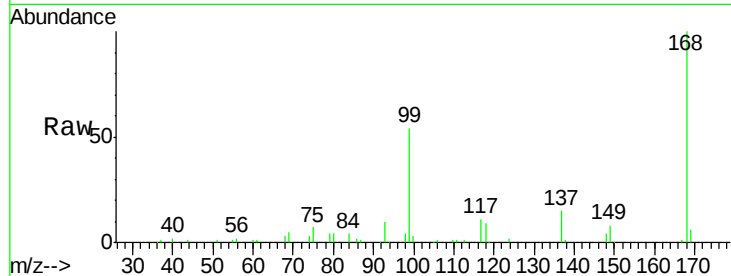




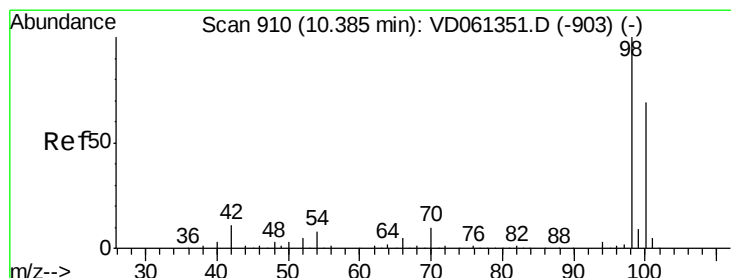
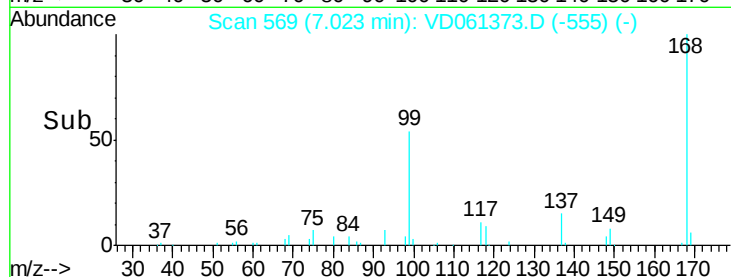
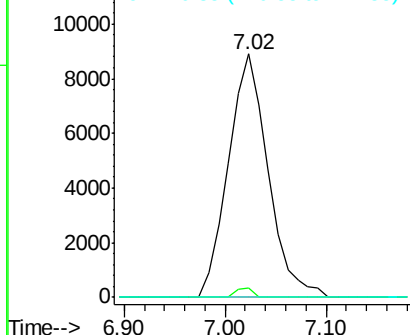
#38
Carbon Tetrachloride
Concen: 8.731 ug/l
RT: 7.02 min Scan# 569
Delta R.T. -0.06 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Instrument :
MSVOA_D
ClientSampleId :
CS-20

Tot Ion:117 Resp: 24360
Ion Ratio Lower Upper
117 100
119 3.7 80.1 120.1#
121 0.0 25.6 38.4#

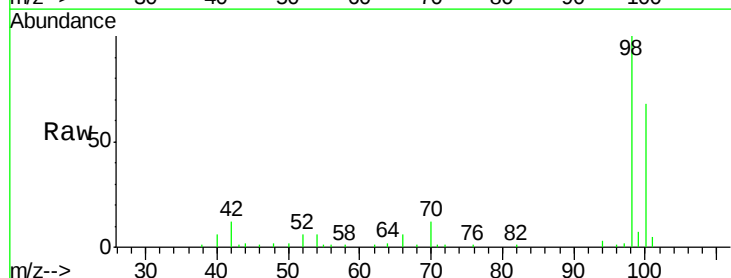


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

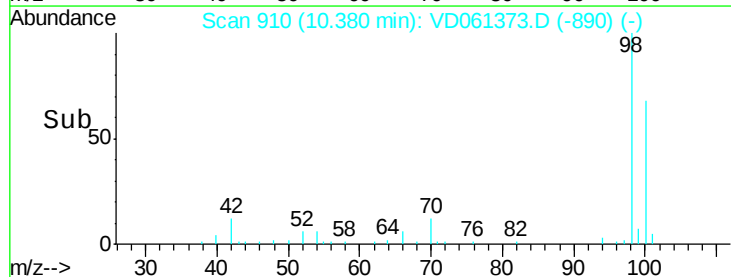
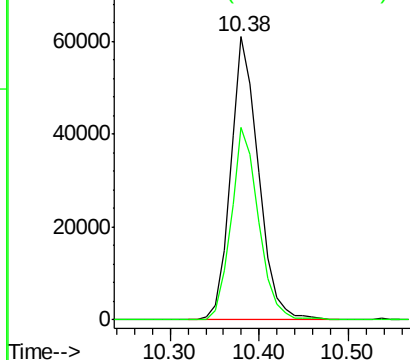


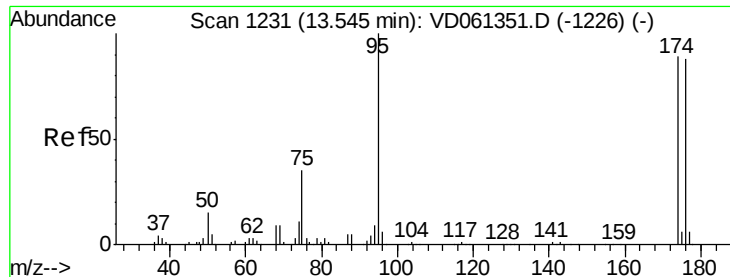
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.38 min Scan# 910
Delta R.T. -0.00 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Tgt Ion: 98 Resp: 132798
Ion Ratio Lower Upper
98 100
100 67.9 56.2 84.2



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

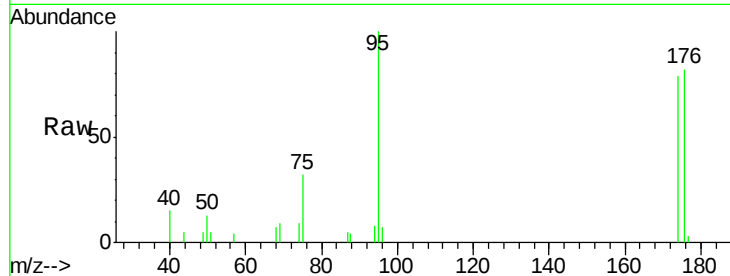




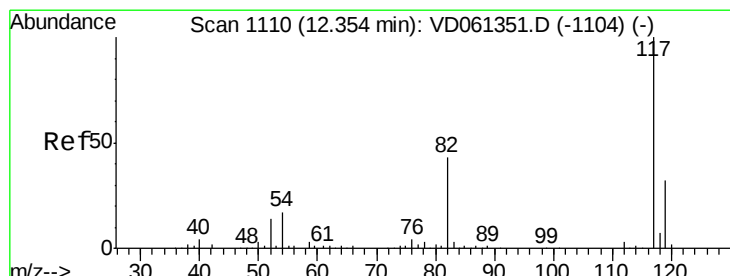
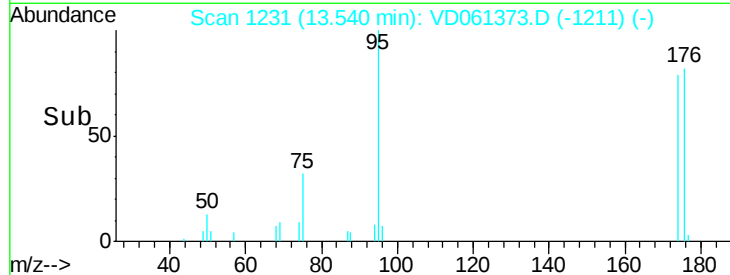
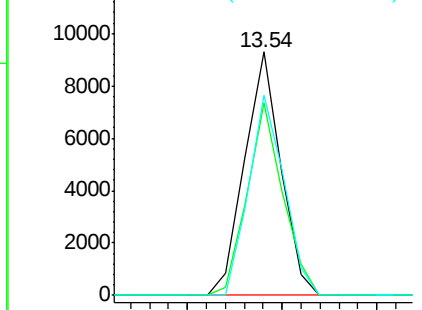
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Instrument :
MSVOA_D
ClientSampleId :
CS-20

Tot Ion: 95 Resp: 12320
Ion Ratio Lower Upper
95 100
174 78.9 0.0 178.0
176 82.3 0.0 175.0

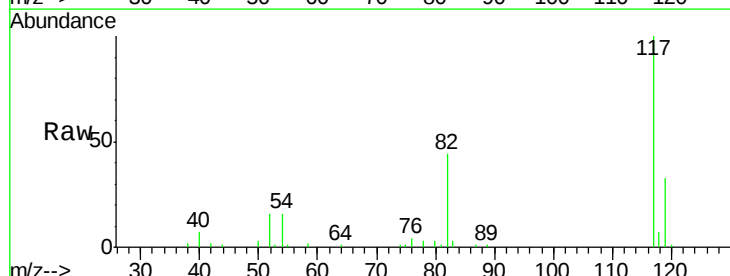


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

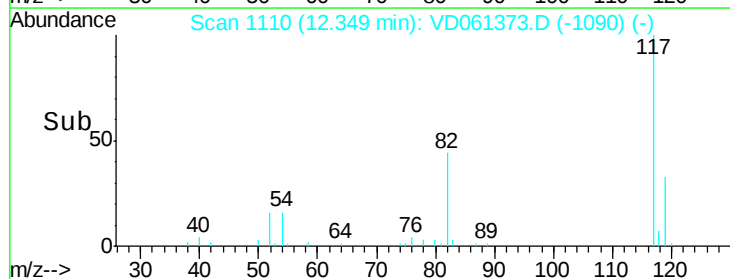
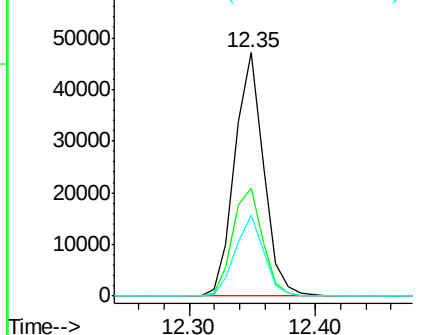


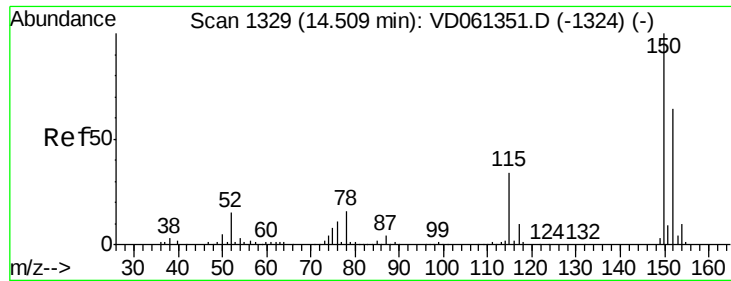
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Tgt Ion: 117 Resp: 74466
Ion Ratio Lower Upper
117 100
82 44.1 34.4 51.6
119 33.2 25.8 38.6



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: 14.50 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

Instrument :

MSVOA_D

ClientSampled :

CS-20

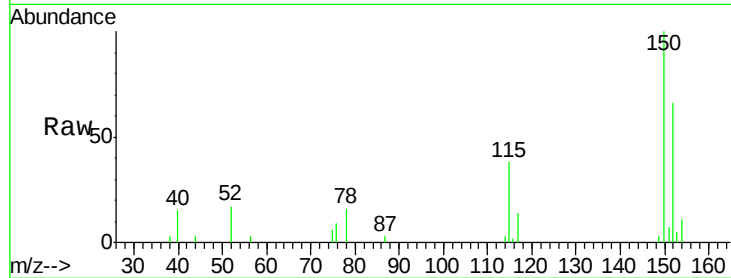
Tot Ion:152 Resp: 10694

Ion Ratio Lower Upper

152 100

115 61.3 26.9 80.6

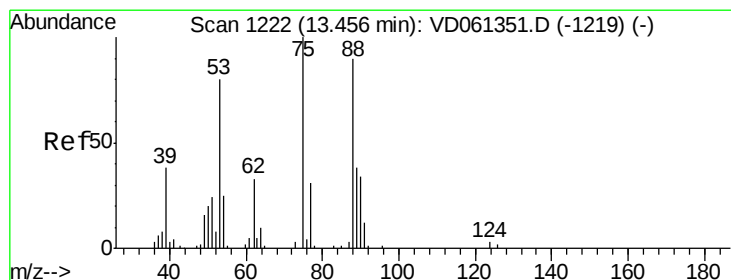
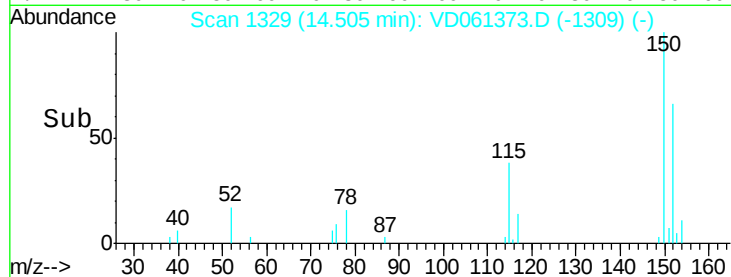
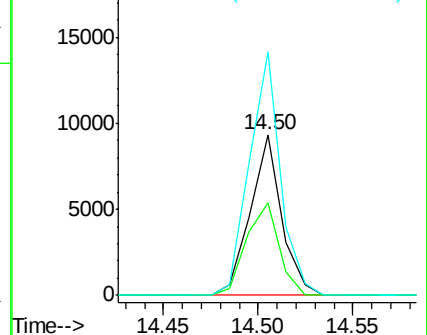
150 151.7 0.0 318.0



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: 91.188 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

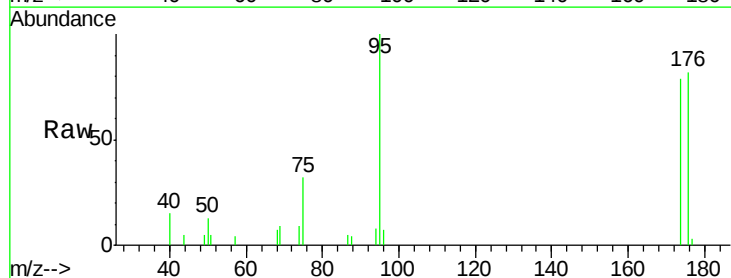
Tgt Ion: 75 Resp: 4295

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

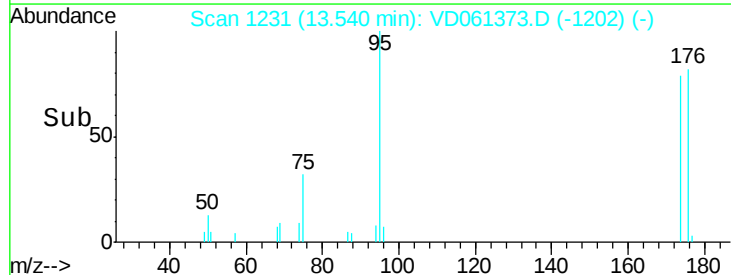
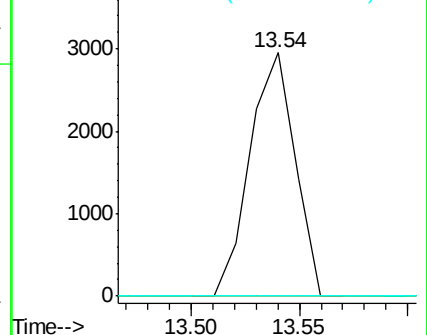
89 0.0 30.5 45.7#

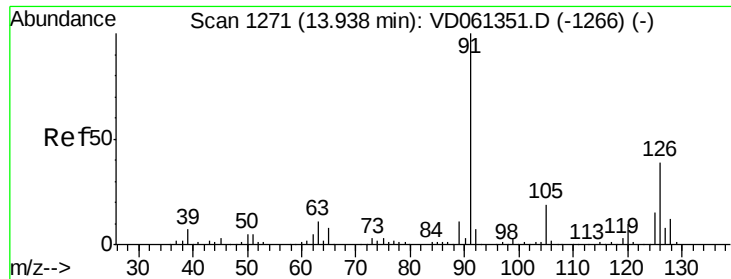


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 1.276 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

Instrument :

MSVOA_D

ClientSampleId :

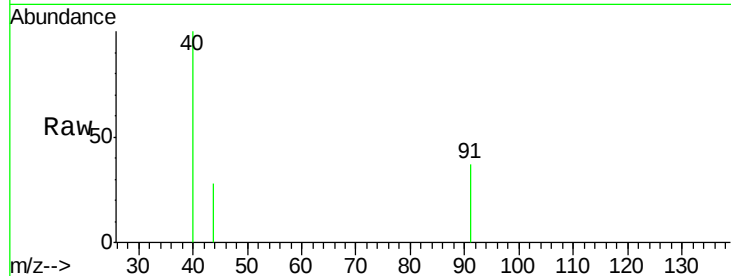
CS-20

Tot Ion: 91 Resp: 686

Ion Ratio Lower Upper

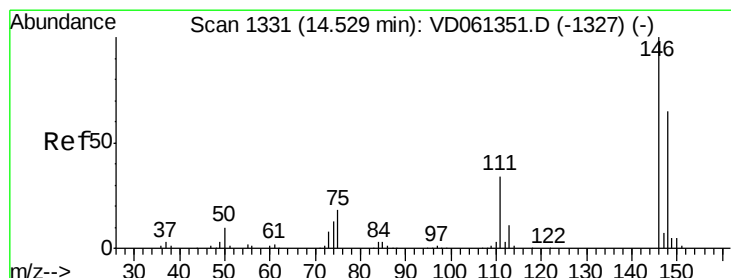
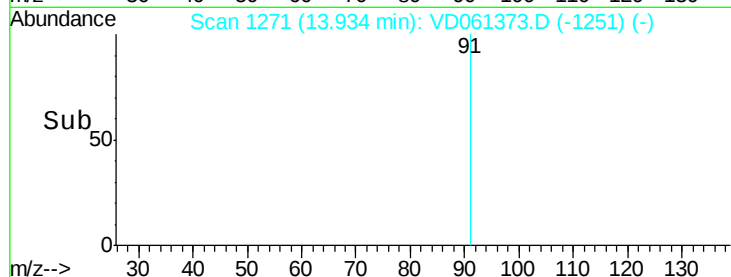
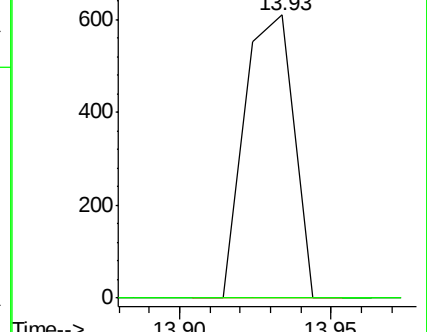
91 100

126 0.0 19.6 58.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#88

1,4-Dichlorobenzene

Concen: 1.562 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

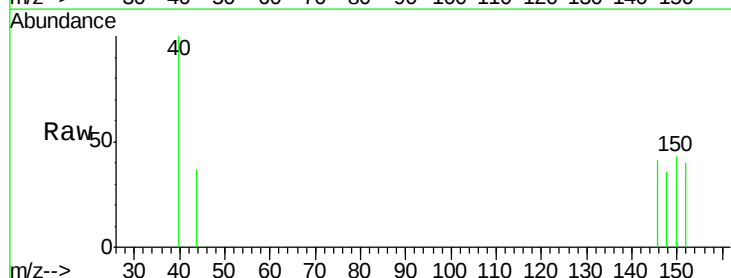
Tgt Ion: 146 Resp: 569

Ion Ratio Lower Upper

146 100

111 0.0 16.8 50.4#

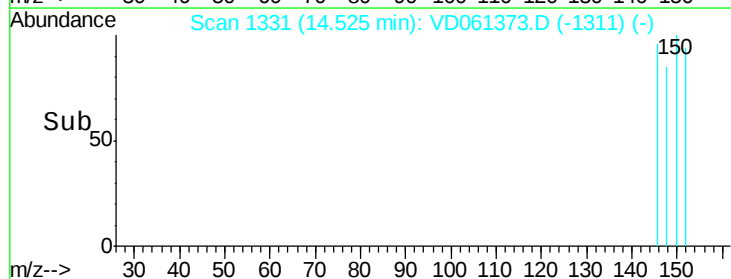
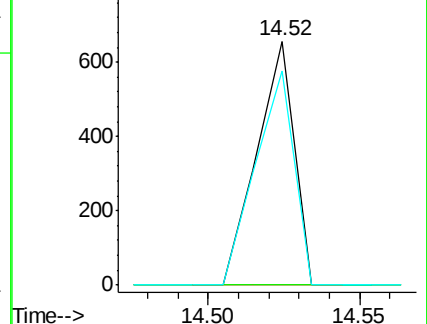
148 87.8 32.6 98.0

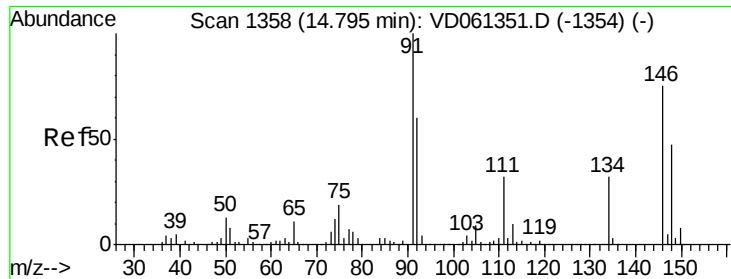


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.357 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

Instrument :

MSVOA_D

ClientSampleId :

CS-20

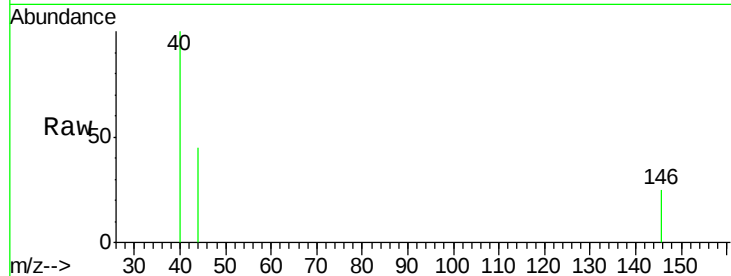
Tot Ion:146 Resp: 416

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

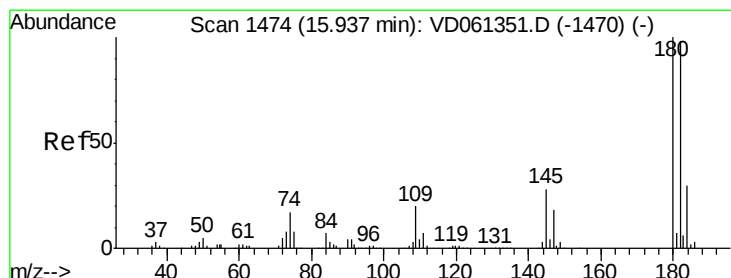
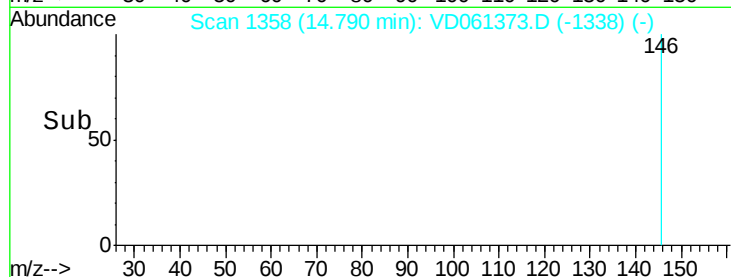
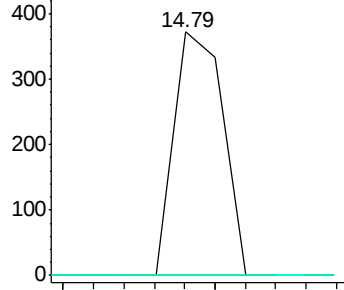
148 0.0 31.6 95.0#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 1.390 ug/l

RT: 15.93 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VD061373.D

Acq: 28 Mar 2019 2:42

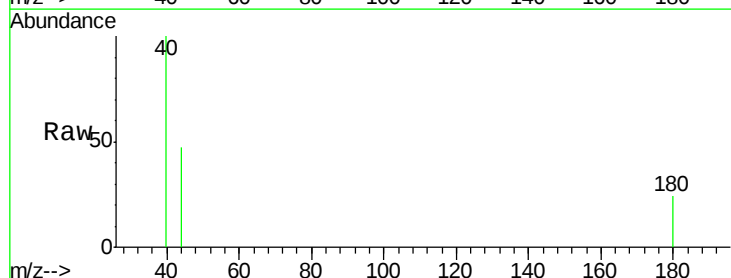
Tgt Ion:180 Resp: 194

Ion Ratio Lower Upper

180 100

182 0.0 48.9 146.8#

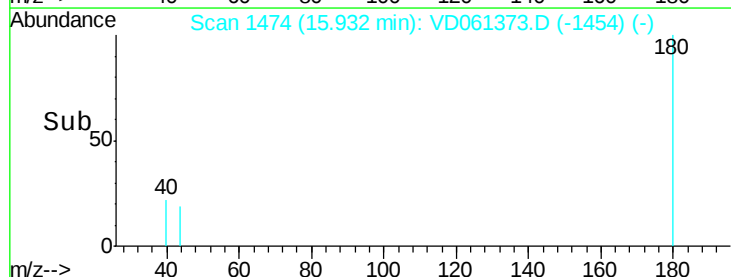
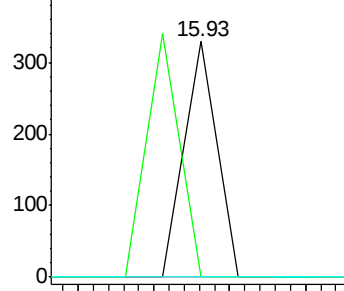
145 0.0 14.1 42.3#

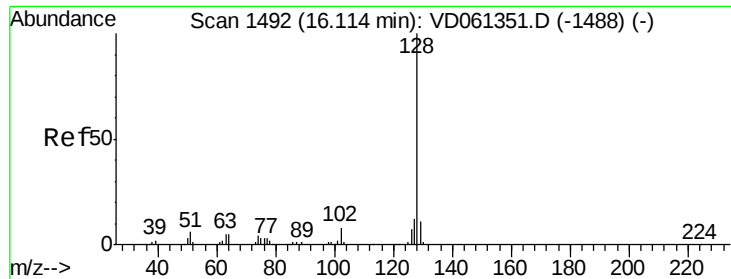


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95
Naphthalene
Concen: 5.658 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VD061373.D
Acq: 28 Mar 2019 2:42

Instrument :
MSVOA_D
ClientSampleId :
CS-20

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.9	14.9#
129	0.0	8.9	13.3#

