

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061326.D
 Acq On : 26 Mar 2019 4:46
 Operator : VA/AP
 Sample : K2047-16
 Misc : 6.14g/5ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(19-21)

Quant Time: Mar 26 07:25:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	524574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	848550	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	767434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	303533	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	203281	44.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.84%	
35) Dibromofluoromethane	6.92	113	285172	43.92	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	87.84%	
50) Toluene-d8	10.41	98	647477	41.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.26%	
62) 4-Bromofluorobenzene	13.55	95	238515	38.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.68%	

Target Compounds

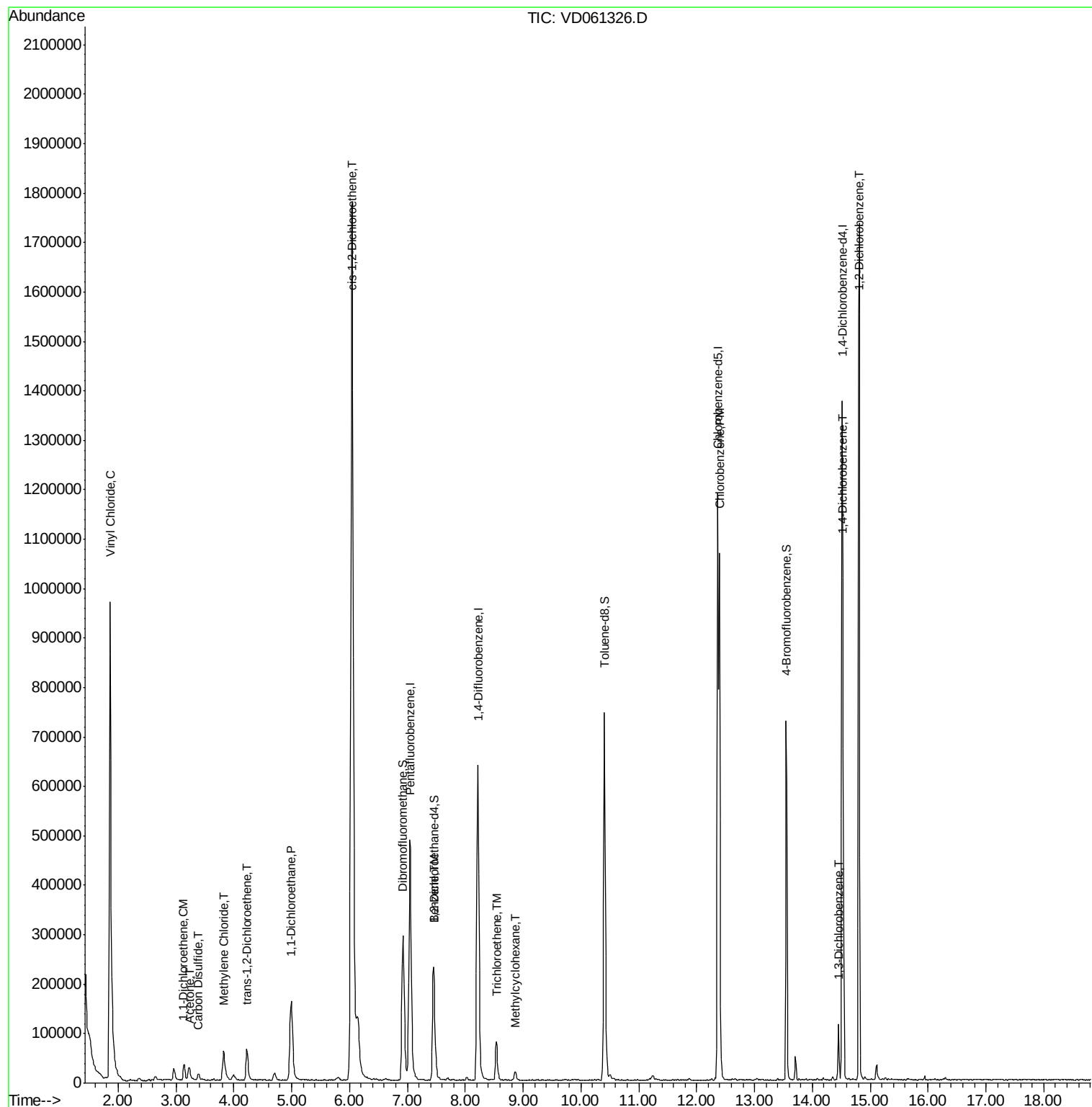
						Qvalue
4) Vinyl Chloride	1.86	62	1356924	346.867	ug/l	97
12) 1,1-Dichloroethene	3.13	96	18935	3.739	ug/l	95
16) Acetone	3.22	43	52895	48.861	ug/l	100
17) Carbon Disulfide	3.39	76	27460	1.633	ug/l #	95
20) Methylene Chloride	3.82	84	46379	7.548	ug/l	96
21) trans-1,2-Dichloroethene	4.23	96	38189	6.740	ug/l	90
24) 1,1-Dichloroethane	4.99	63	289586	32.836	ug/l	98
27) cis-1,2-Dichloroethene	6.05	96	1458415	239.204	ug/l	90
39) Methylcyclohexane	8.86	83	10503	1.461	ug/l #	83
40) Benzene	7.45	78	22674	1.315	ug/l	98
44) Trichloroethene	8.54	130	38335	6.148	ug/l	91
65) Chlorobenzene	12.40	112	649104	45.920	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	46725	4.780	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	188407	19.898	ug/l	100
91) 1,2-Dichlorobenzene	14.81	146	691106	88.607	ug/l	99

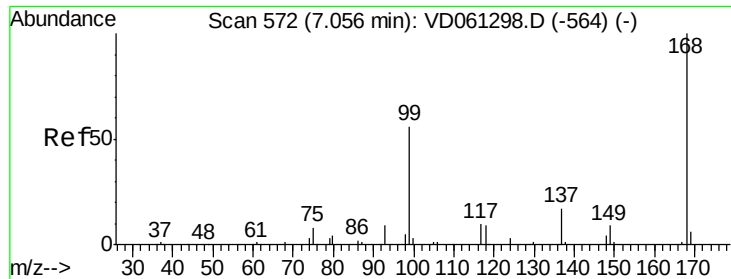
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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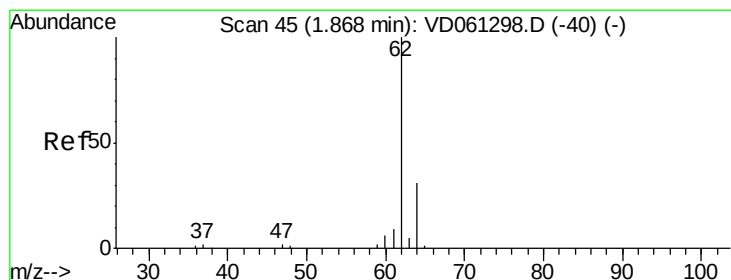
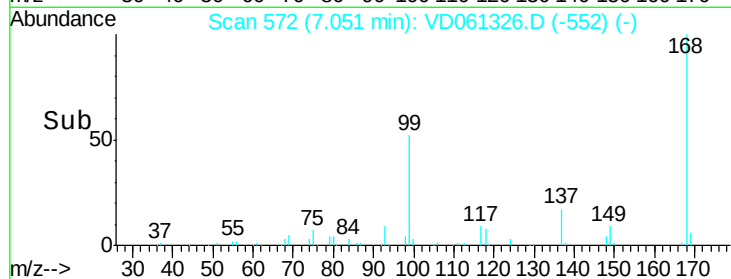
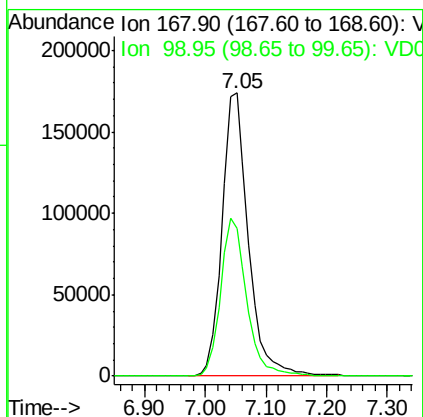
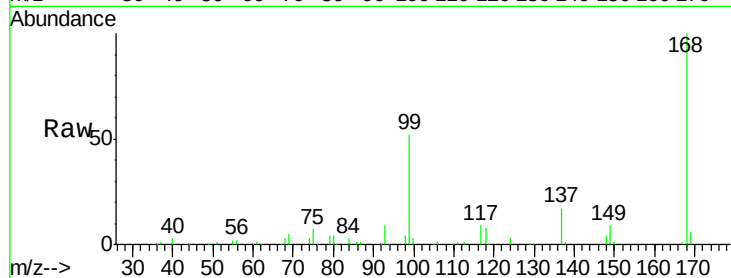




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.00 min
Lab File: VD061326.D
Acq: 26 Mar 2019 4:46

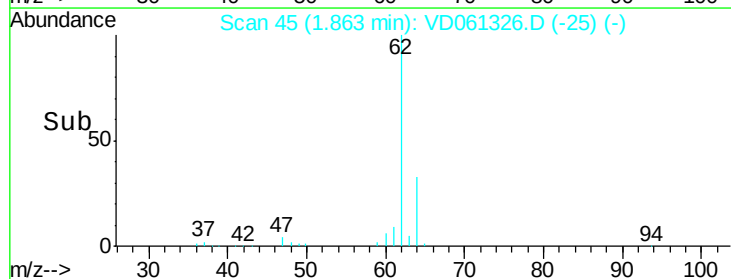
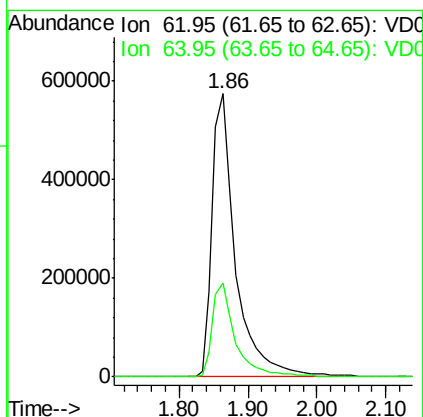
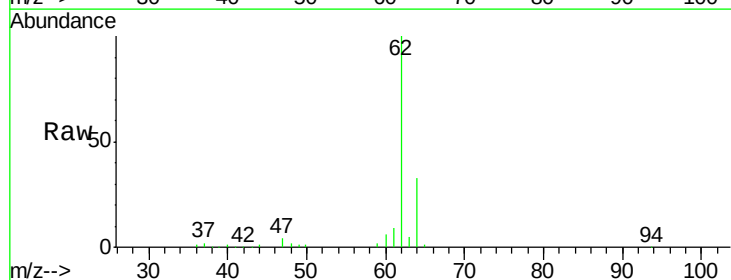
Instrument :
MSVOA_D
ClientSampleId :
WP022SB440-190318-(19-21)

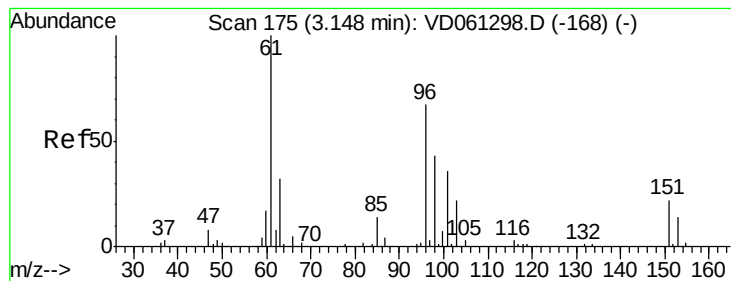
Tot Ion:168 Resp: 524574
Ion Ratio Lower Upper
168 100
99 52.3 45.8 68.8



#4
Vinyl Chloride
Concen: 346.867 ug/l
RT: 1.86 min Scan# 45
Delta R.T. -0.00 min
Lab File: VD061326.D
Acq: 26 Mar 2019 4:46

Tgt Ion: 62 Resp: 1356924
Ion Ratio Lower Upper
62 100
64 33.3 25.1 37.7





#12

1,1-Dichloroethene

Concen: 3.739 ug/l

RT: 3.13 min Scan# 174

Delta R.T. -0.01 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

WP022SB440-190318-(19-21)

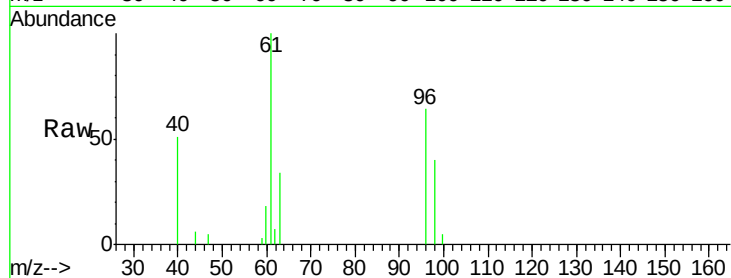
Tot Ion: 96 Resp: 18935

Ion Ratio Lower Upper

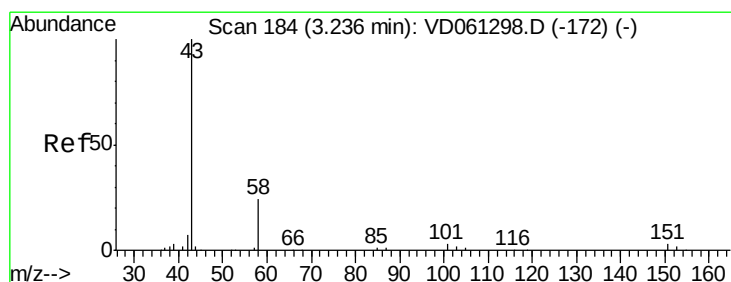
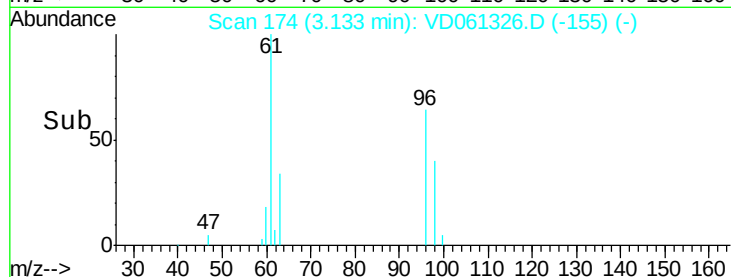
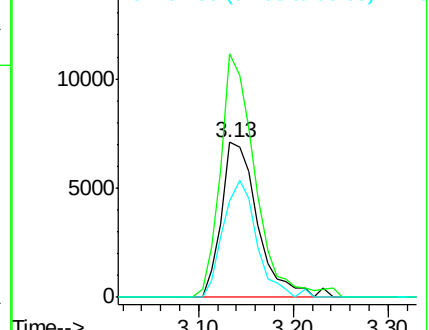
96 100

61 157.2 120.2 180.2

98 62.3 52.2 78.4



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#16

Acetone

Concen: 48.861 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD061326.D

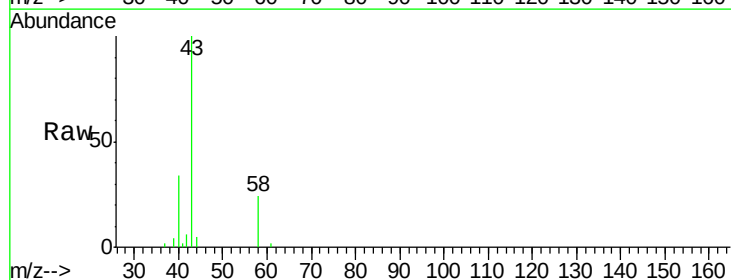
Acq: 26 Mar 2019 4:46

Tgt Ion: 43 Resp: 52895

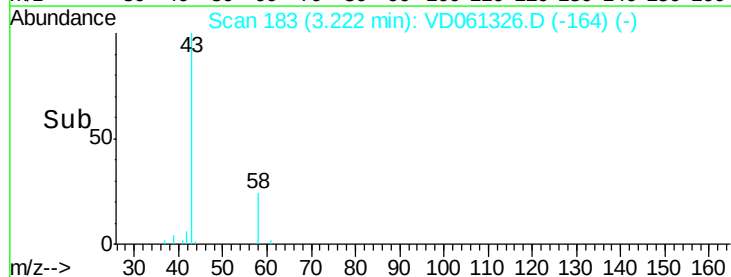
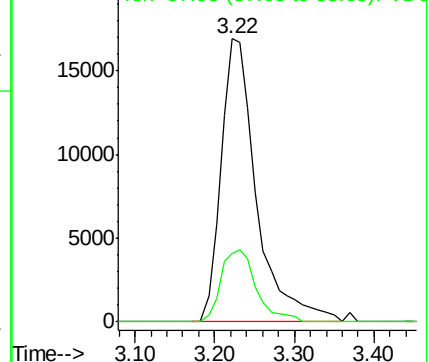
Ion Ratio Lower Upper

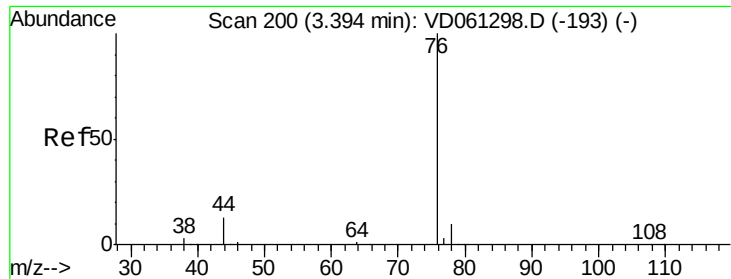
43 100

58 24.1 19.4 29.0



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





#17

Carbon Disulfide

Concen: 1.633 ug/l

RT: 3.39 min Scan# 200

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

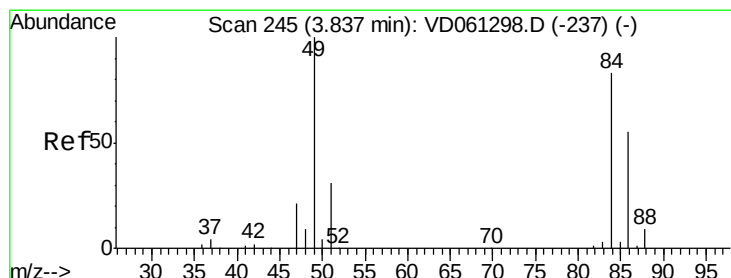
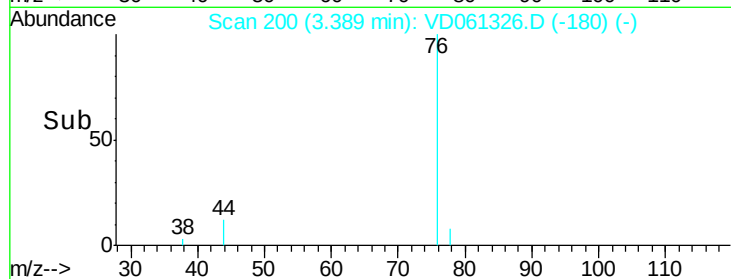
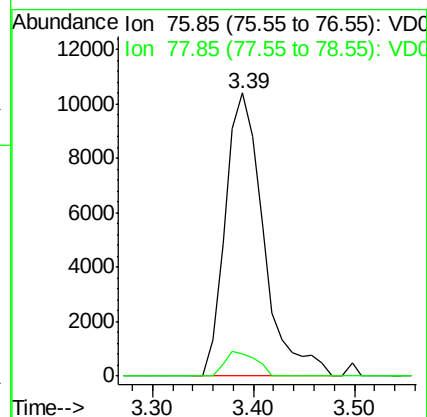
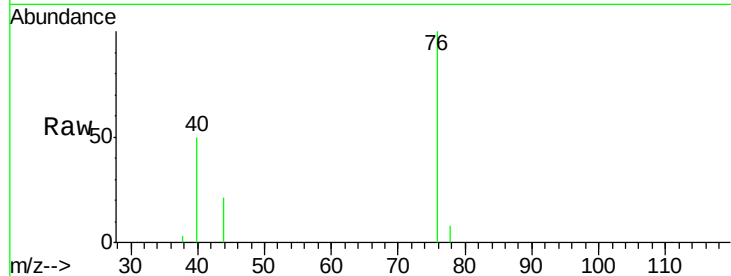
WP022SB440-190318-(19-21)

Tot Ion: 76 Resp: 27460

Ion Ratio Lower Upper

76 100

78 7.7 7.8 11.6#



#20

Methylene Chloride

Concen: 7.548 ug/l

RT: 3.82 min Scan# 244

Delta R.T. -0.01 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Tgt Ion: 84 Resp: 46379

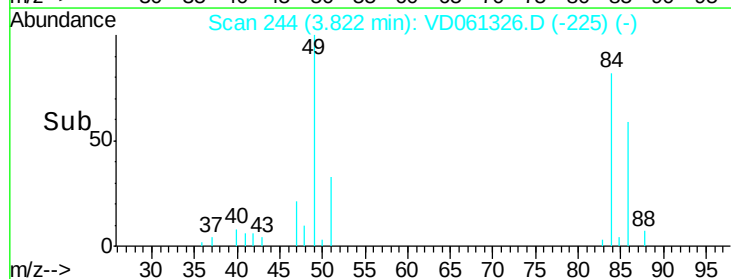
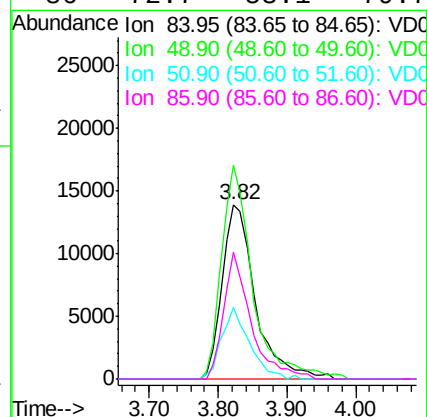
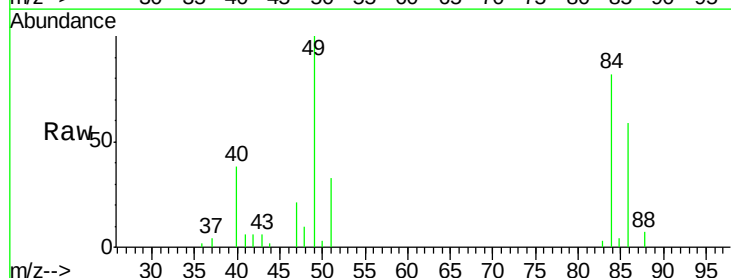
Ion Ratio Lower Upper

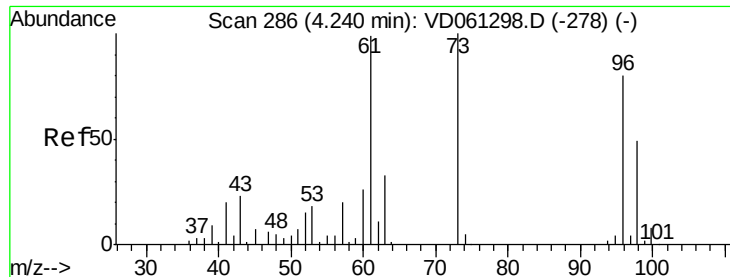
84 100

49 122.4 96.8 145.2

51 40.9 29.9 44.9

86 72.7 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 6.740 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.01 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

WP022SB440-190318-(19-21)

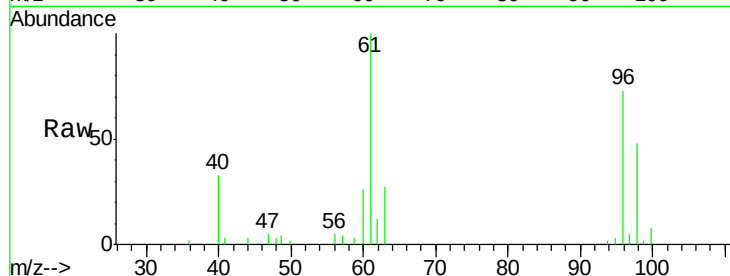
Tot Ion: 96 Resp: 38189

Ion Ratio Lower Upper

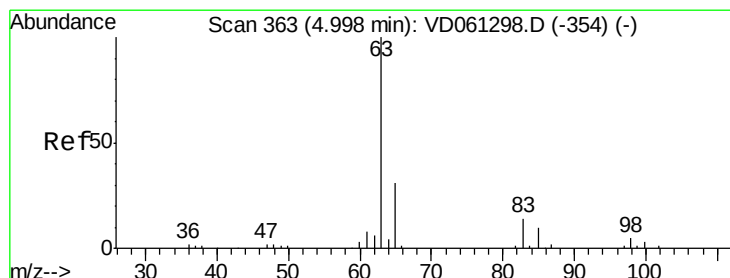
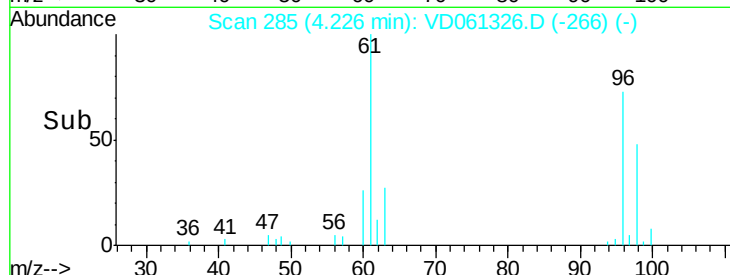
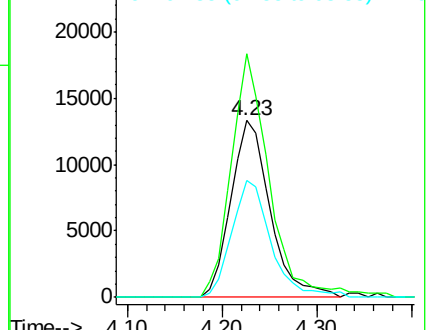
96 100

61 137.8 99.2 148.8

98 66.1 49.2 73.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#24

1,1-Dichloroethane

Concen: 32.836 ug/l

RT: 4.99 min Scan# 363

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

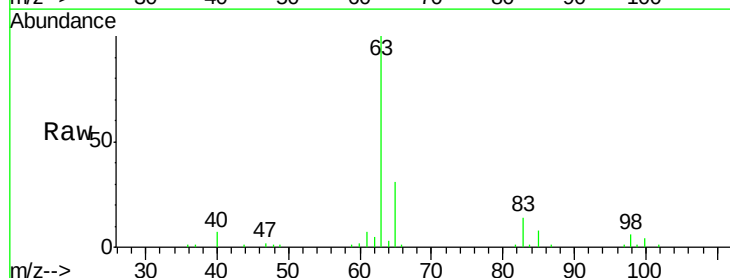
Tgt Ion: 63 Resp: 289586

Ion Ratio Lower Upper

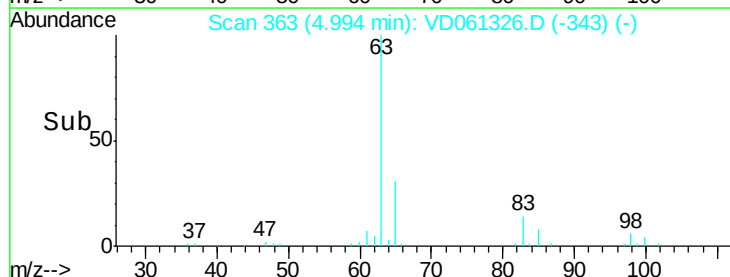
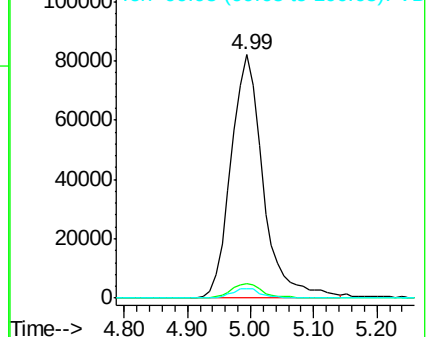
63 100

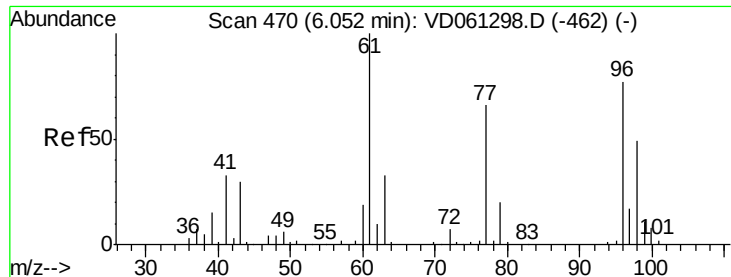
98 6.2 2.8 8.3

100 3.7 1.6 4.8



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



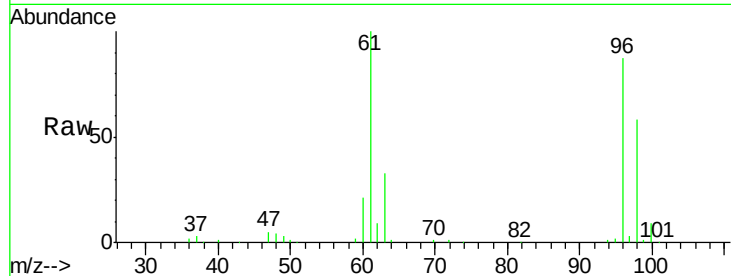


#27

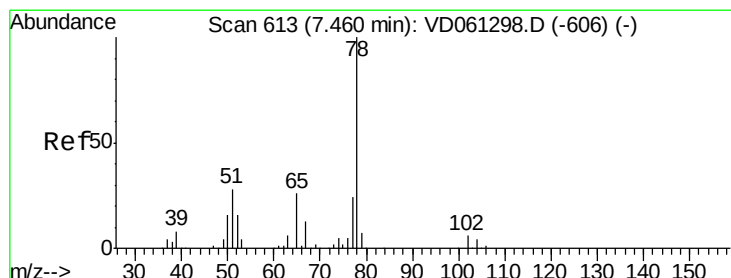
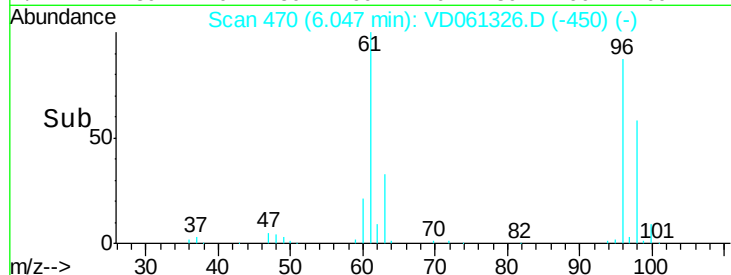
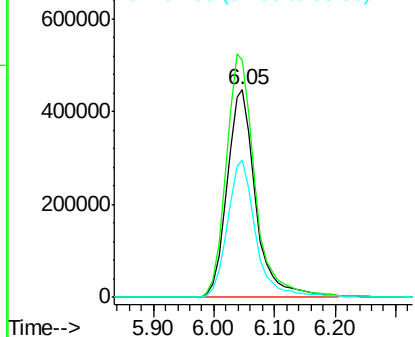
cis-1,2-Dichloroethene
 Concen: 239.204 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. -0.00 min
 Lab File: VD061326.D
 Acq: 26 Mar 2019 4:46

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB440-190318-(19-21)

Tot Ion: 96 Resp: 1458415
 Ion Ratio Lower Upper
 96 100
 61 114.3 0.0 261.0
 98 66.0 0.0 127.6



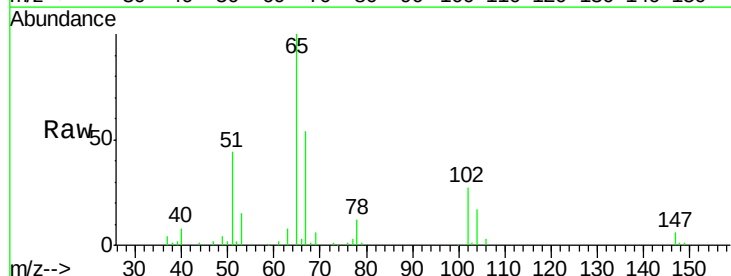
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



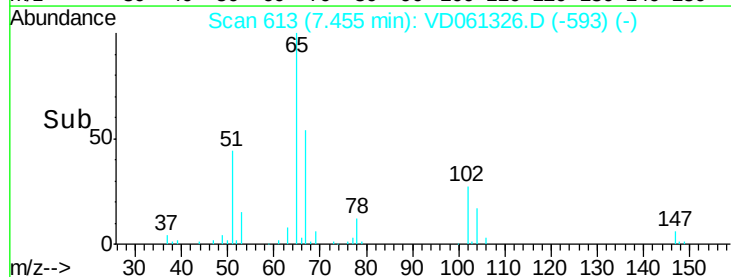
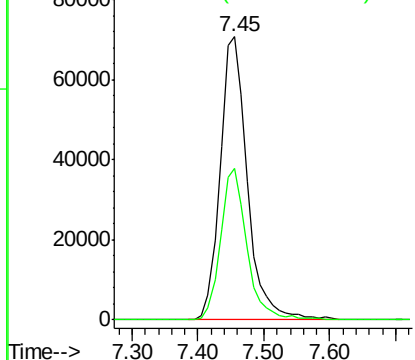
#33

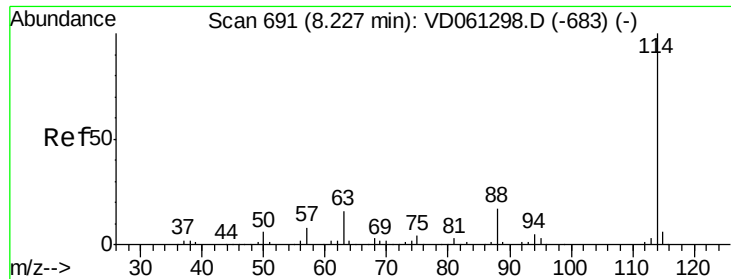
1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VD061326.D
 Acq: 26 Mar 2019 4:46

Tgt Ion: 65 Resp: 203281
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 100.8



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

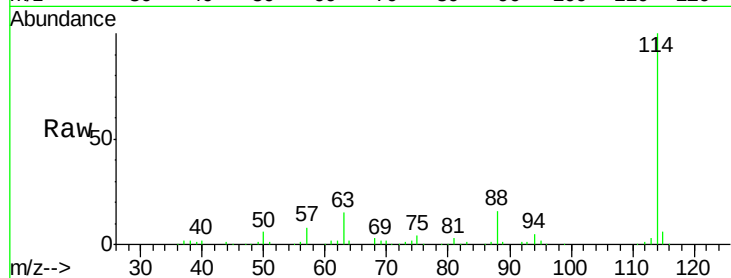




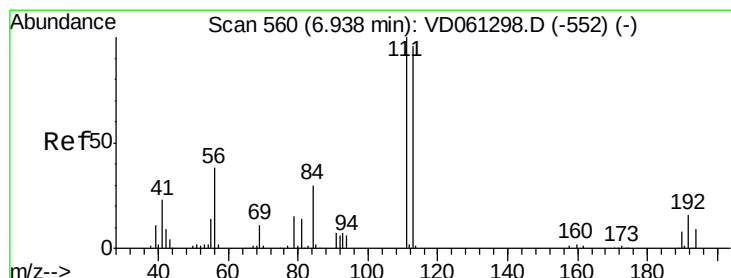
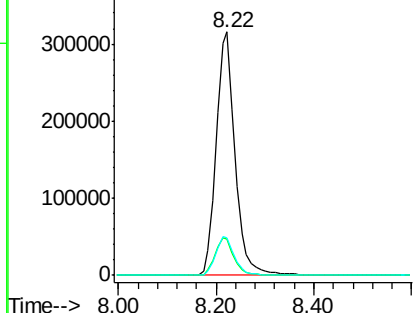
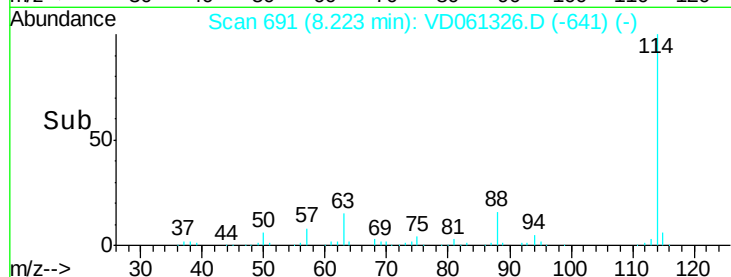
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. -0.00 min
 Lab File: VD061326.D
 Acq: 26 Mar 2019 4:46

Instrument :
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Tot Ion:114 Resp: 848550
 Ion Ratio Lower Upper
 114 100
 63 15.0 0.0 31.4
 88 15.5 0.0 33.2

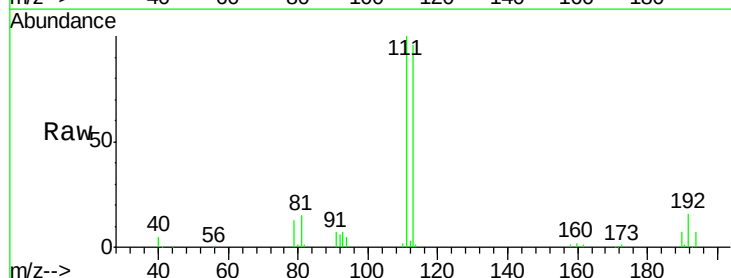


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

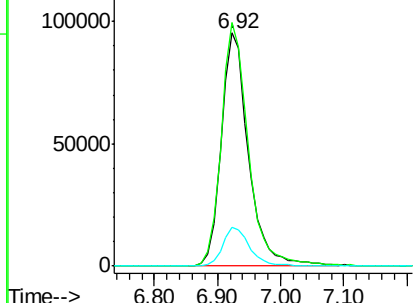
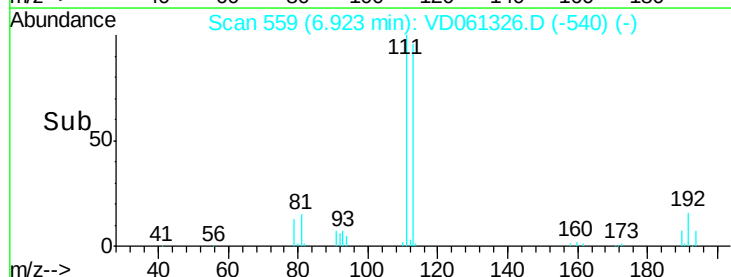


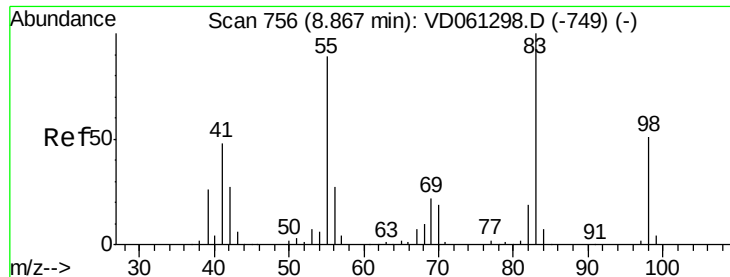
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD061326.D
 Acq: 26 Mar 2019 4:46

Tgt Ion:113 Resp: 285172
 Ion Ratio Lower Upper
 113 100
 111 104.5 83.7 125.5
 192 16.8 13.4 20.0



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

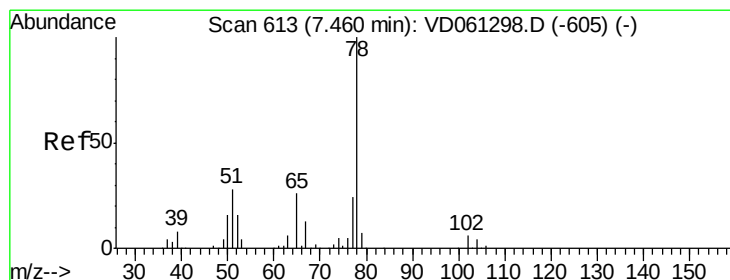
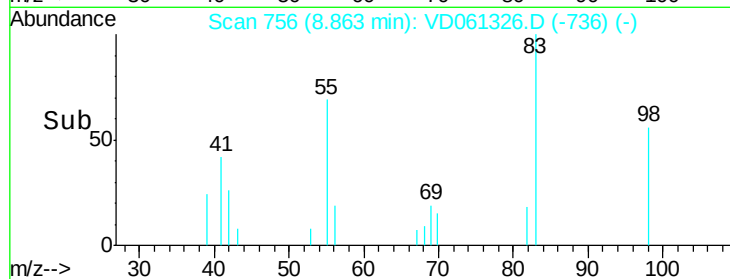
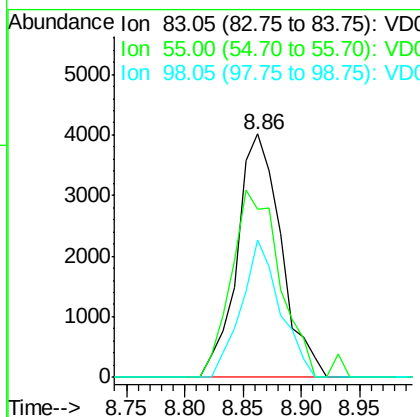
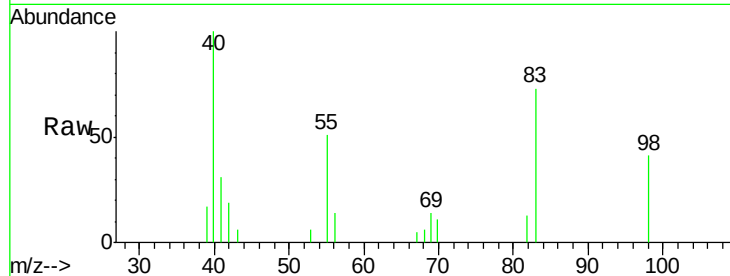




#39
Methylvlcyclohexane
Concen: 1.461 ug/l
RT: 8.86 min Scan# 756
Delta R.T. -0.00 min
Lab File: VD061326.D
Acq: 26 Mar 2019 4:46

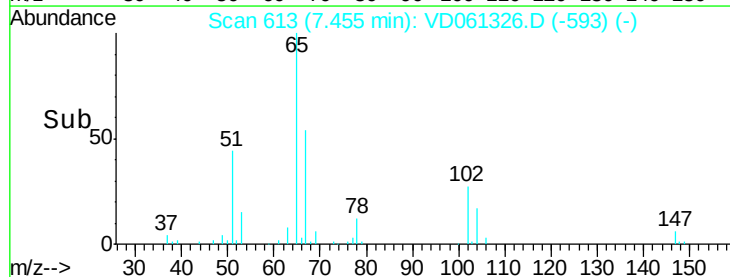
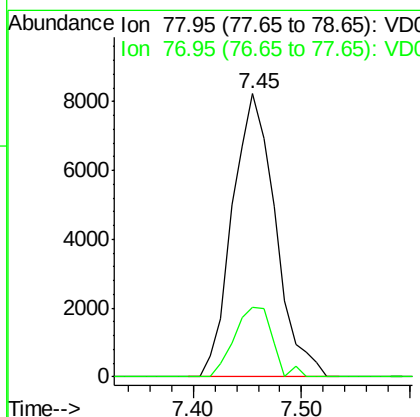
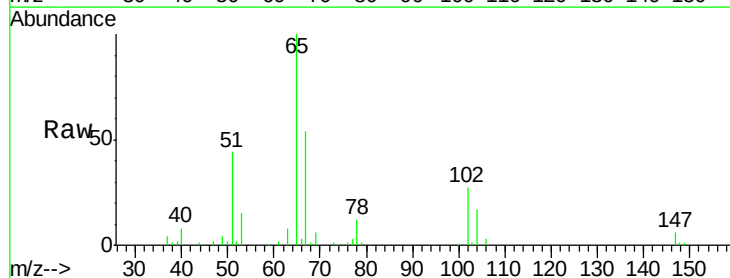
Instrument :
MSVOA_D
ClientSampleId :
WP022SB440-190318-(19-21)

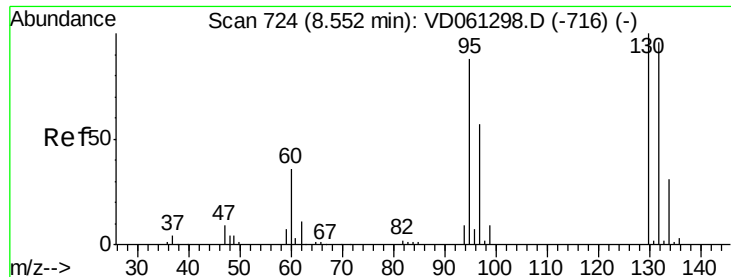
Tot Ion: 83 Resp: 10503
Ion Ratio Lower Upper
83 100
55 69.3 71.3 106.9#
98 56.3 40.4 60.6



#40
Benzene
Concen: 1.315 ug/l
RT: 7.45 min Scan# 613
Delta R.T. -0.00 min
Lab File: VD061326.D
Acq: 26 Mar 2019 4:46

Tgt Ion: 78 Resp: 22674
Ion Ratio Lower Upper
78 100
77 24.6 18.8 28.2





#44

Trichloroethene

Concen: 6.148 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

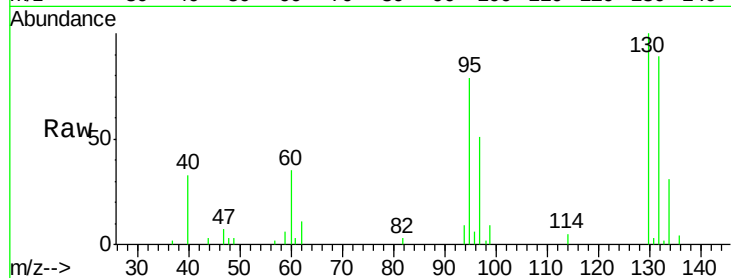
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Tot Ion:130 Resp: 38335

Ion Ratio Lower Upper

130 100

95 78.8 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

8.54

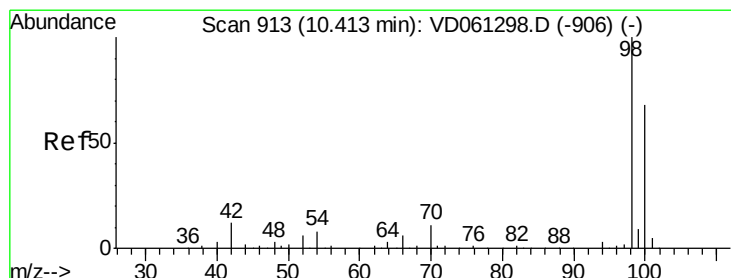
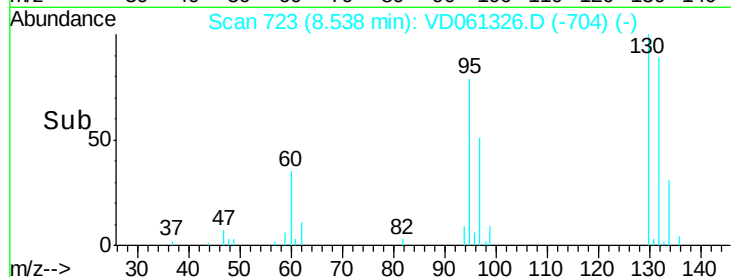
15000

10000

5000

0

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD061326.D

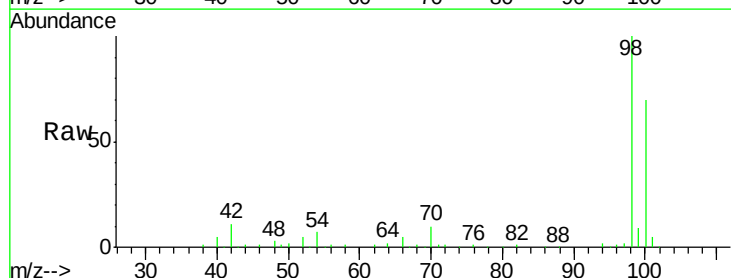
Acq: 26 Mar 2019 4:46

Tgt Ion: 98 Resp: 647477

Ion Ratio Lower Upper

98 100

100 69.8 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.41

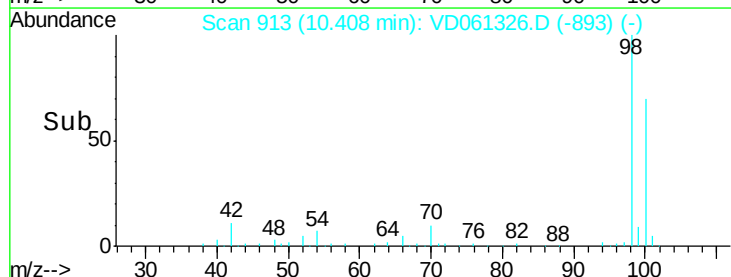
300000

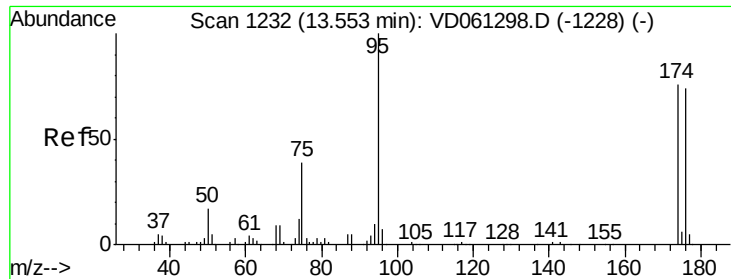
200000

100000

0

Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

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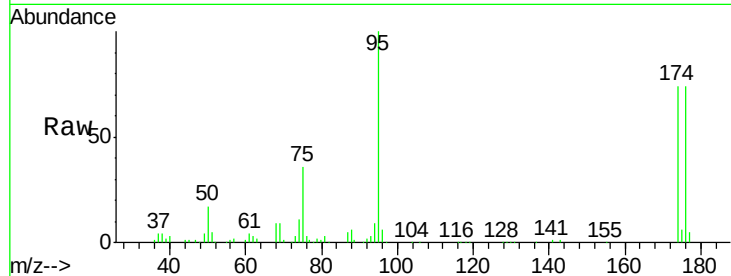
Tot Ion: 95 Resp: 238515

Ion Ratio Lower Upper

95 100

174 74.1 0.0 151.8

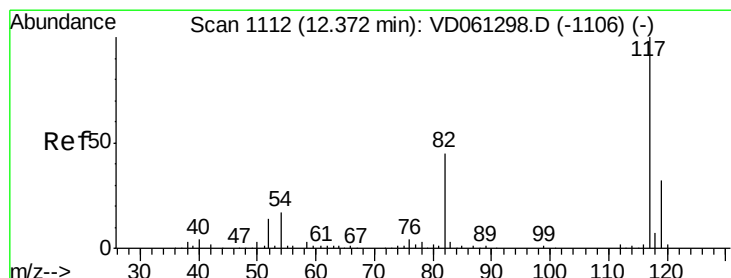
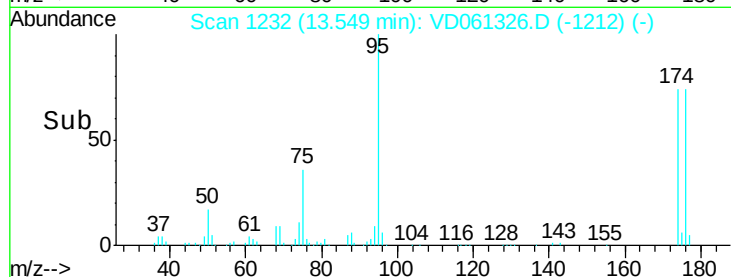
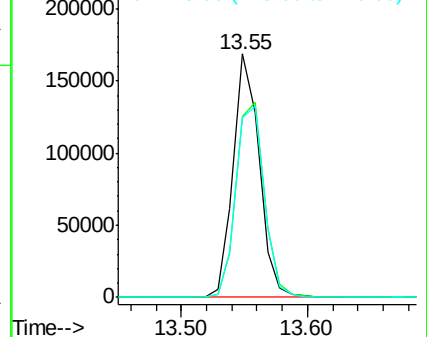
176 73.5 0.0 148.0



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: 12.37 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

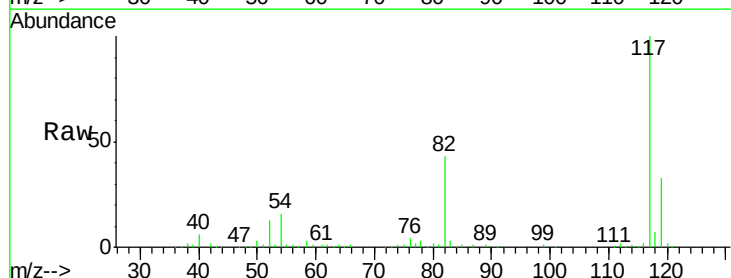
Tgt Ion: 117 Resp: 767434

Ion Ratio Lower Upper

117 100

82 42.8 35.7 53.5

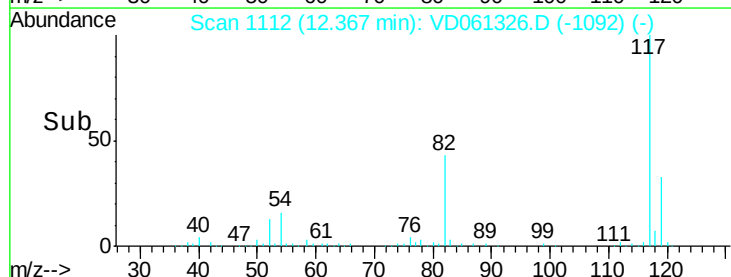
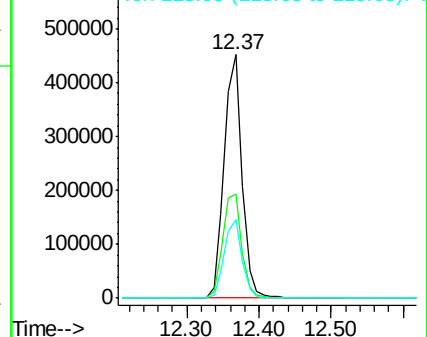
119 32.5 25.9 38.9

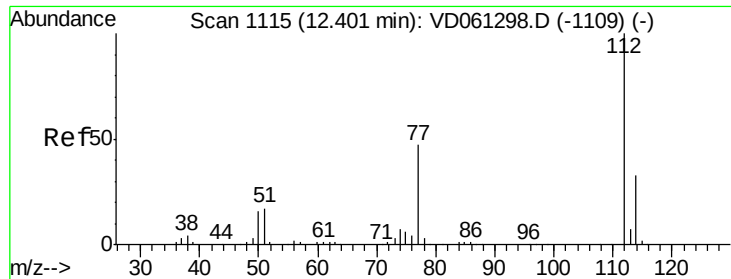


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

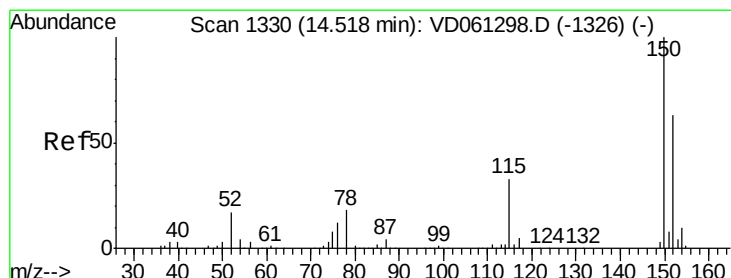
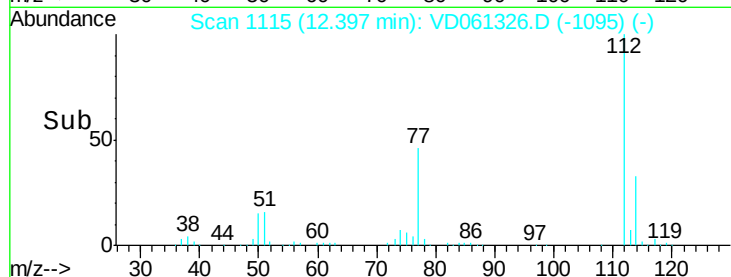
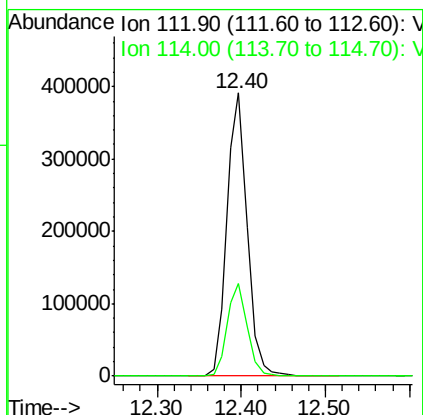
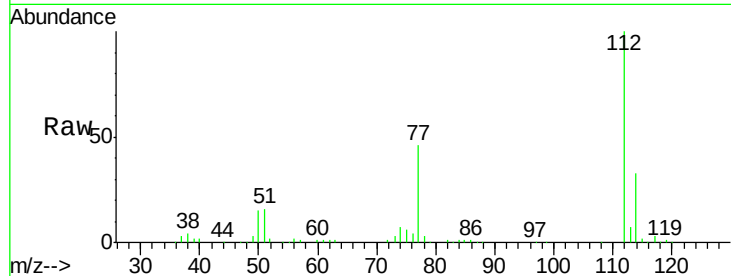




#65
Chlorobenzene
Concen: 45.920 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD061326.D
Acq: 26 Mar 2019 4:46

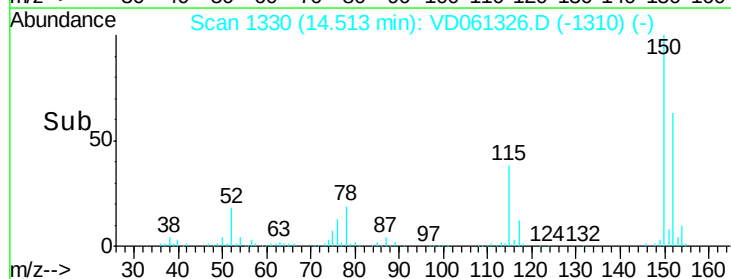
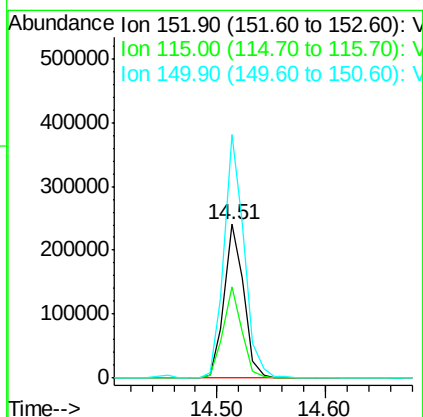
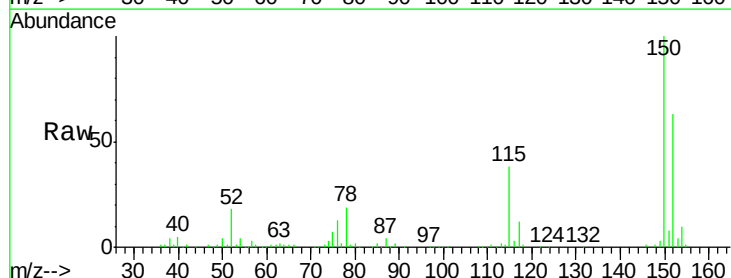
Instrument :
MSVOA_D
ClientSampleId :
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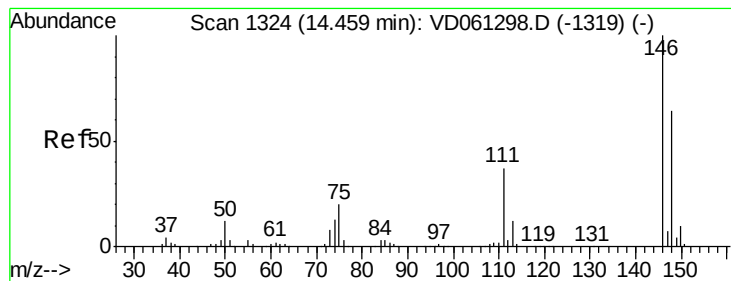
Tot Ion:112 Resp: 649104
Ion Ratio Lower Upper
112 100
114 32.7 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061326.D
Acq: 26 Mar 2019 4:46

Tgt Ion:152 Resp: 303533
Ion Ratio Lower Upper
152 100
115 59.8 29.2 87.6
150 158.7 0.0 319.6





#87

1,3-Dichlorobenzene

Concen: 4.780 ug/l

RT: 14.45 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

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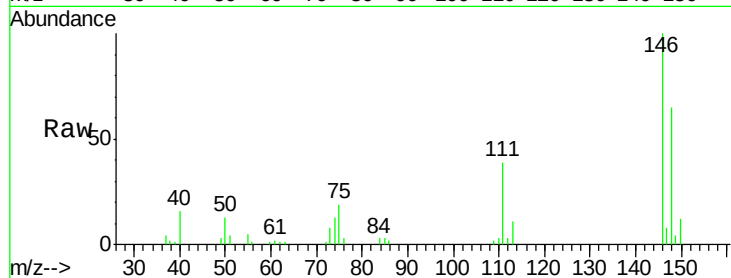
Tot Ion:146 Resp: 46725

Ion Ratio Lower Upper

146 100

111 39.3 18.4 55.0

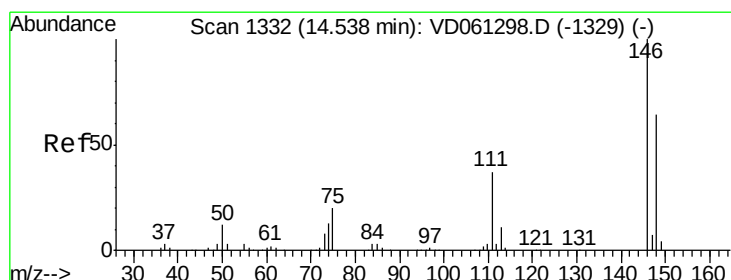
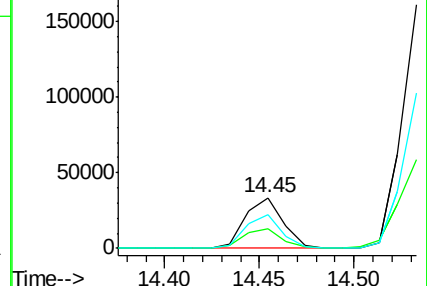
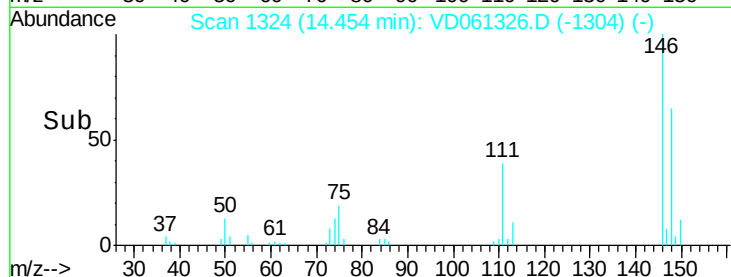
148 65.4 32.0 96.2



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



#88

1,4-Dichlorobenzene

Concen: 19.898 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

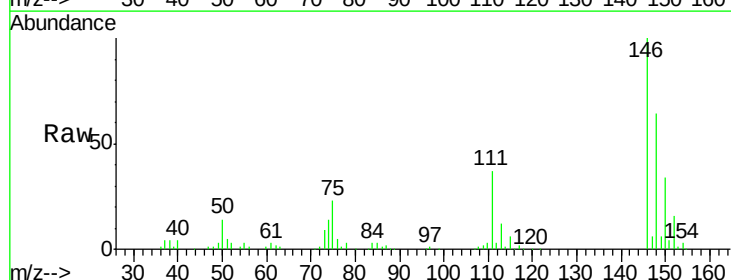
Tgt Ion:146 Resp: 188407

Ion Ratio Lower Upper

146 100

111 36.7 18.6 55.6

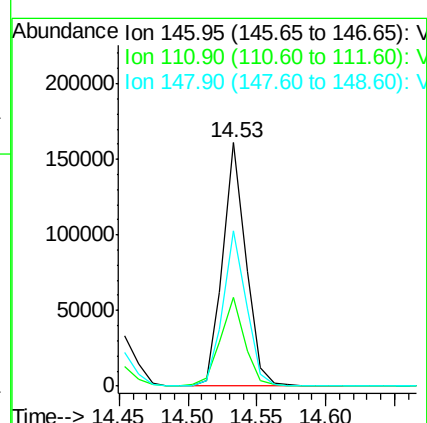
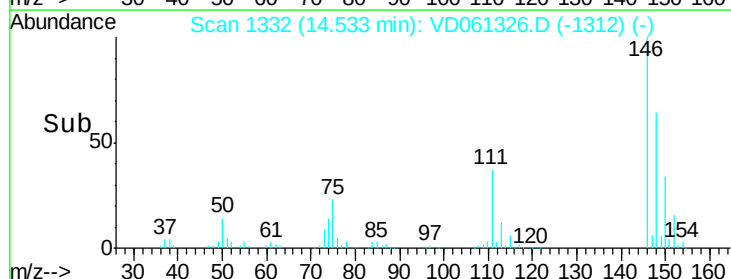
148 63.9 31.9 95.5

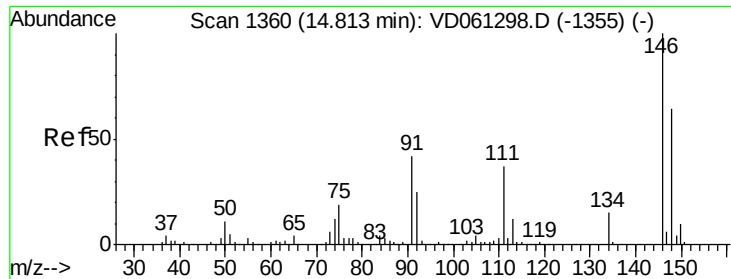


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 88.607 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VD061326.D

Acq: 26 Mar 2019 4:46

Instrument :

MSVOA_D

ClientSampleId :

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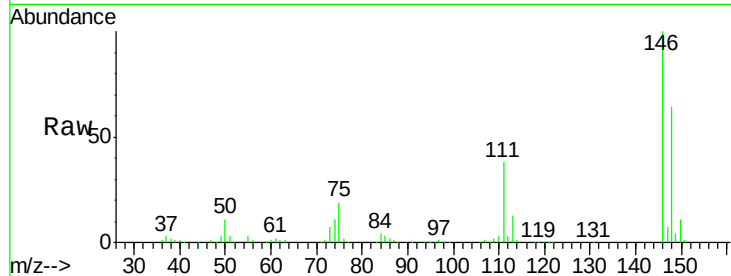
Tot Ion:146 Resp: 691106

Ion Ratio Lower Upper

146 100

111 37.9 18.3 54.8

148 63.9 31.9 95.7



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

