

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061329.D
 Acq On : 26 Mar 2019 6:10
 Operator : VA/AP
 Sample : K2047-02
 Misc : 6.30g/5ml/MSVOA D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(28-30)

Quant Time: Mar 26 07:10:42 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	479839	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	753421	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	599143	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	245368	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	198730	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
35) Dibromofluoromethane	6.93	113	300996	52.21	ug/l	-0.01
Spiked Amount			Recovery	=	104.42%	
50) Toluene-d8	10.40	98	630714	45.12	ug/l	-0.01
Spiked Amount			Recovery	=	90.24%	
62) 4-Bromofluorobenzene	13.55	95	205511	37.69	ug/l	0.00
Spiked Amount			Recovery	=	75.38%	

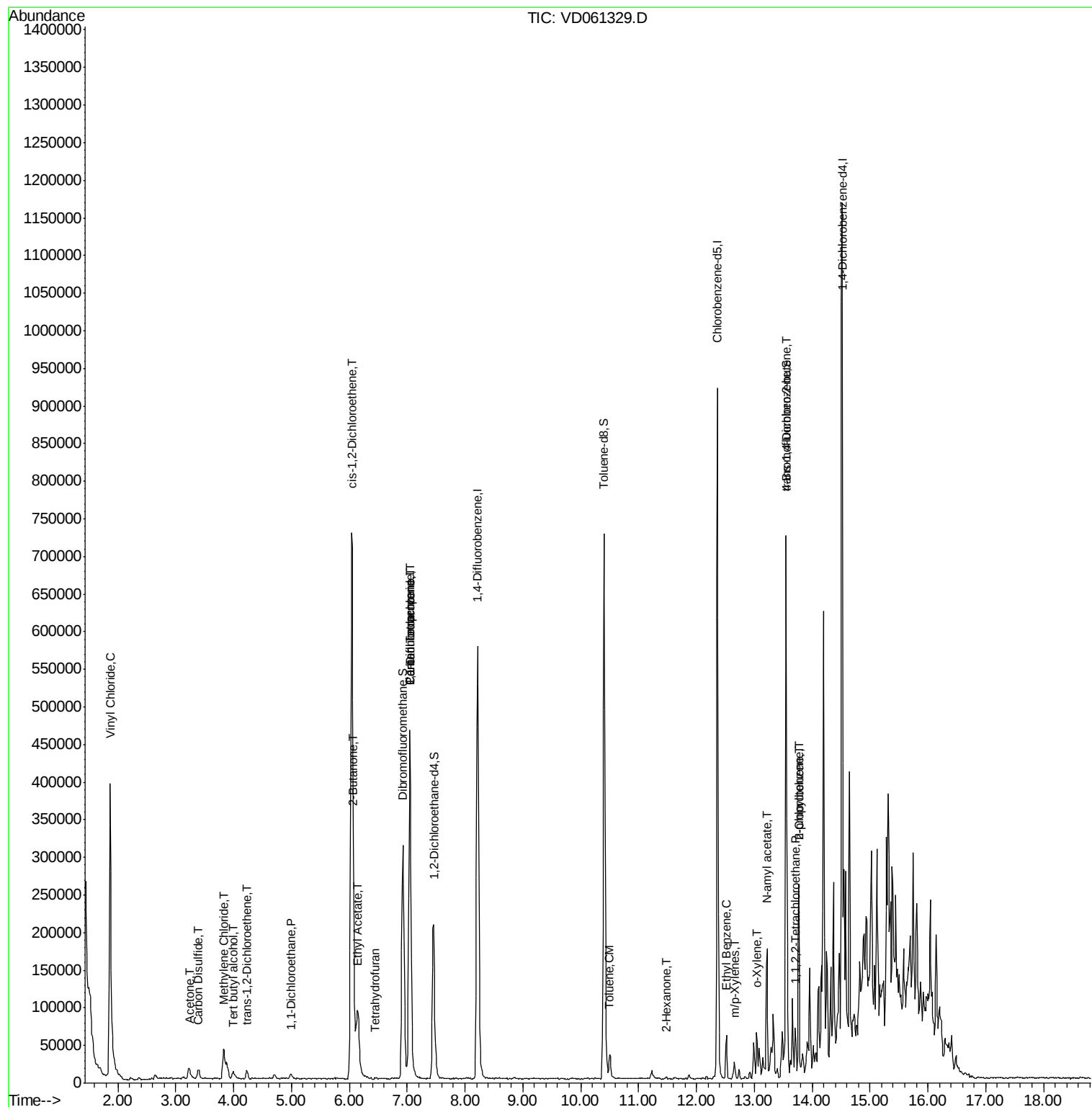
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.87	62	541885	151.435	ug/l	96
11) Tert butyl alcohol	3.99	59	9225	41.860	ug/l #	77
16) Acetone	3.23	43	31693	32.005	ug/l	99
17) Carbon Disulfide	3.39	76	27286	1.774	ug/l	100
20) Methylene Chloride	3.83	84	32267	5.741	ug/l	98
21) trans-1,2-Dichloroethene	4.23	96	6081	1.173	ug/l #	76
24) 1,1-Dichloroethane	5.00	63	11171	1.385	ug/l #	86
25) 2-Butanone	6.08	43	3615	3.156	ug/l	94
27) cis-1,2-Dichloroethene	6.05	96	584935	104.883	ug/l	91
29) Tetrahydrofuran	6.46	42	828	1.452	ug/l #	48
36) 1,1-Dichloropropene	7.05	75	34320	5.568	ug/l #	45
37) Ethyl Acetate	6.14	43	3699	1.437	ug/l #	1
38) Carbon Tetrachloride	7.05	117	45078	6.398	ug/l #	14
52) Toluene	10.50	92	17688	1.888	ug/l	96
59) 2-Hexanone	11.48	43	1867	1.163	ug/l #	24
67) Ethyl Benzene	12.52	91	43473	2.574	ug/l	97
68) m/p-Xylenes	12.66	106	6873	1.043	ug/l #	71
69) o-Xylene	13.04	106	15816	2.587	ug/l	96
74) N-amyl acetate	13.22	43	35036	8.391	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	13.71	83	3160	1.021	ug/l #	1
78) n-propylbenzene	13.77	91	170202	9.453	ug/l	99
79) 2-Chlorotoluene	13.77	91	170202	16.235	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.55	75	76097	79.021	ug/l #	17

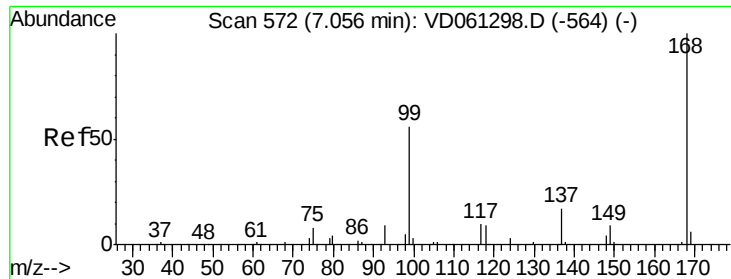
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 03:31:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

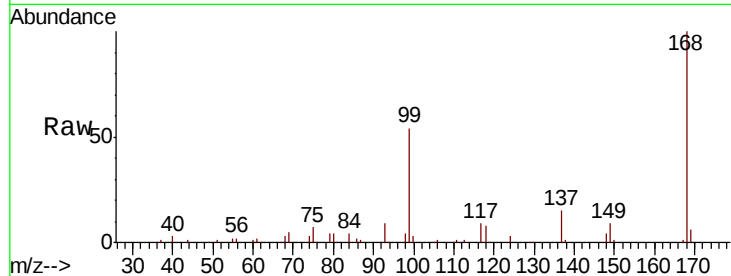
WP022SB432-190320-(28-30)

Tot Ion:168 Resp: 479839

Ion Ratio Lower Upper

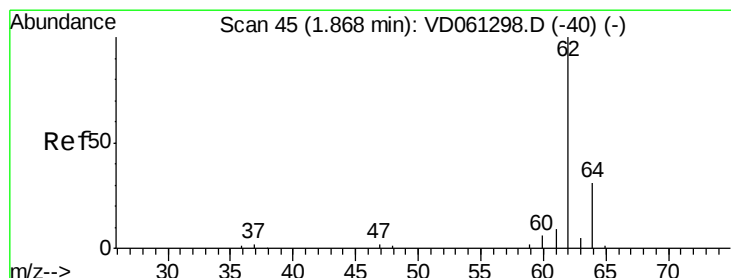
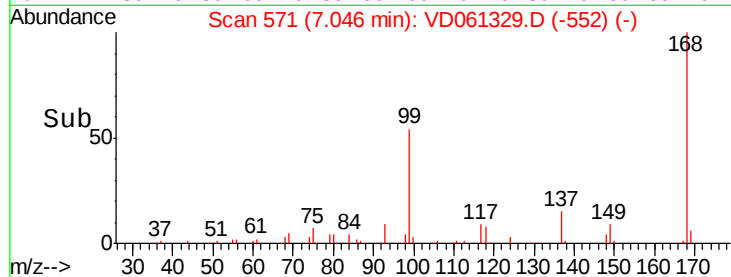
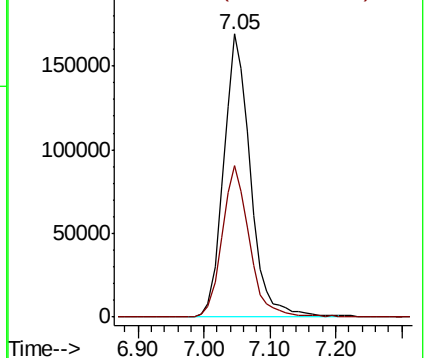
168 100

99 53.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 151.435 ug/l

RT: 1.87 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061329.D

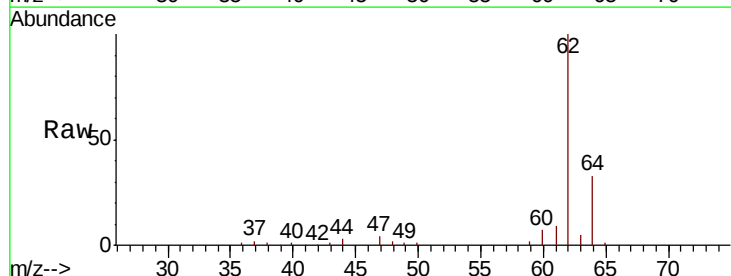
Acq: 26 Mar 2019 6:10

Tgt Ion: 62 Resp: 541885

Ion Ratio Lower Upper

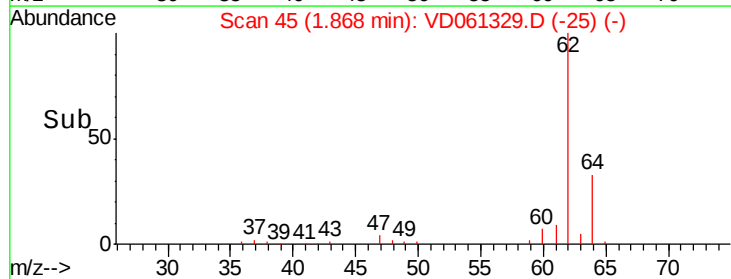
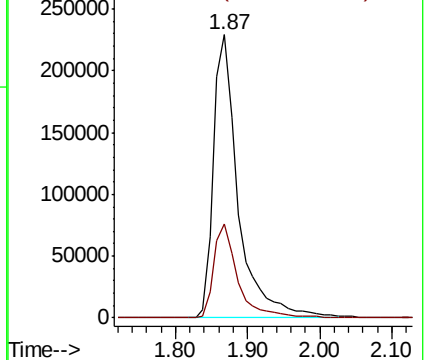
62 100

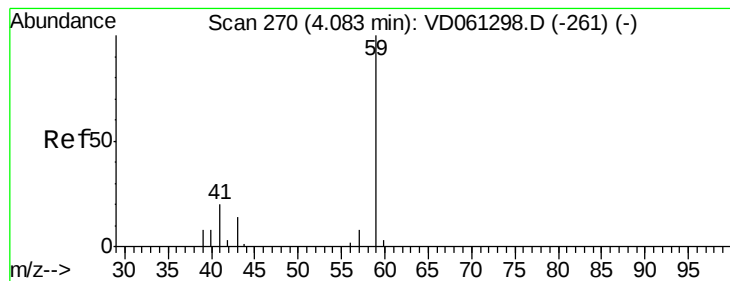
64 33.4 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



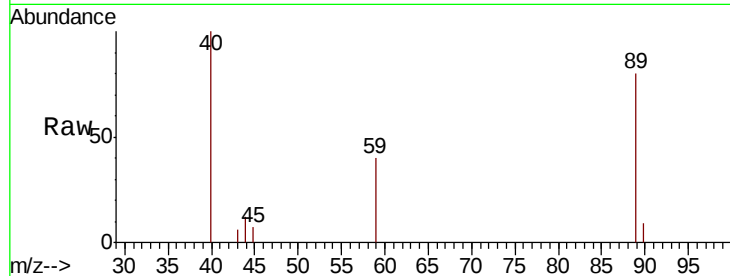


#11

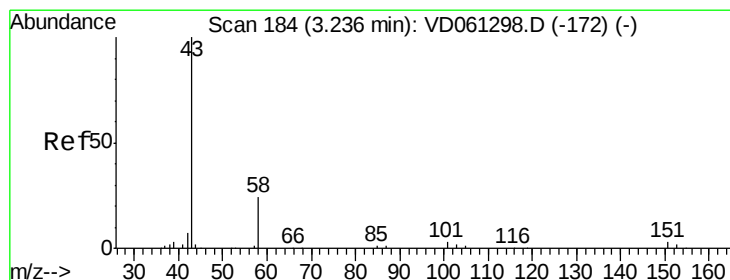
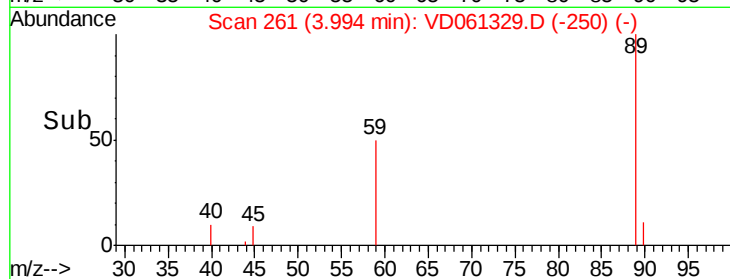
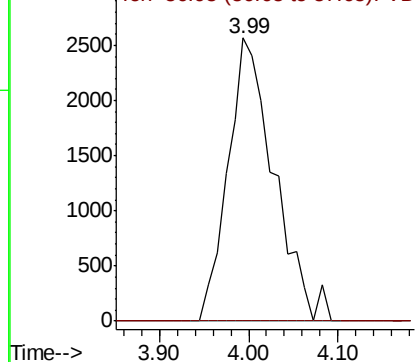
Tert butyl alcohol
 Concen: 41.860 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.09 min
 Lab File: VD061329.D
 Acq: 26 Mar 2019 6:10

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(28-30)

Tot Ion: 59 Resp: 9225
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 9.8#



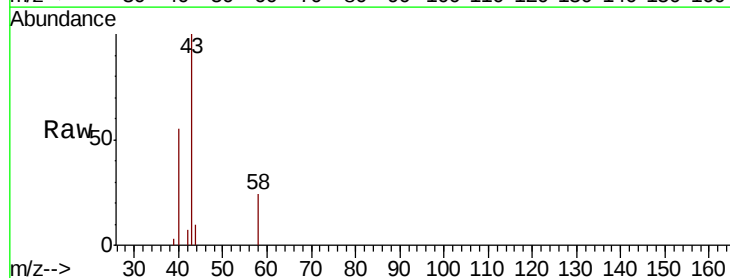
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



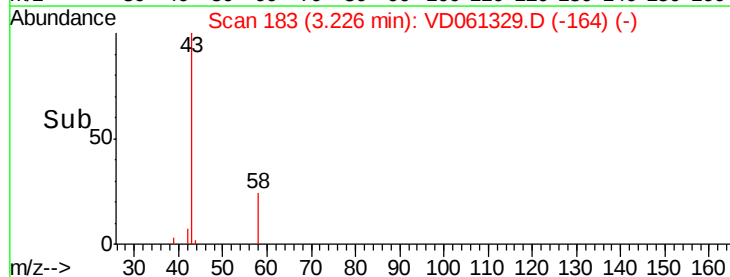
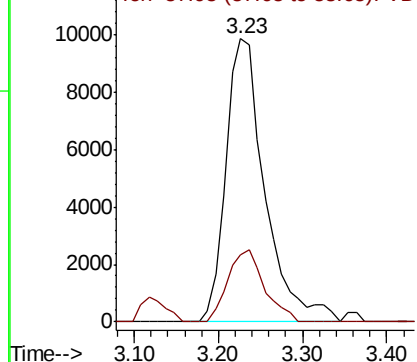
#16

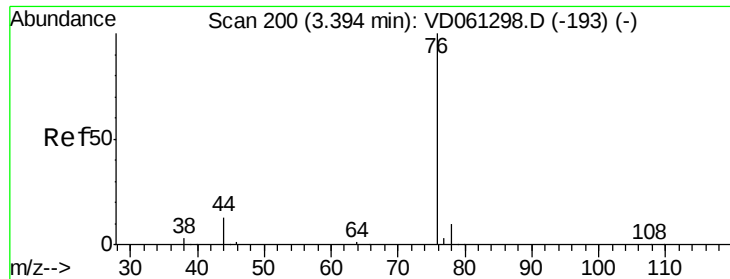
Acetone
 Concen: 32.005 ug/l
 RT: 3.23 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VD061329.D
 Acq: 26 Mar 2019 6:10

Tgt Ion: 43 Resp: 31693
 Ion Ratio Lower Upper
 43 100
 58 23.7 19.4 29.0



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

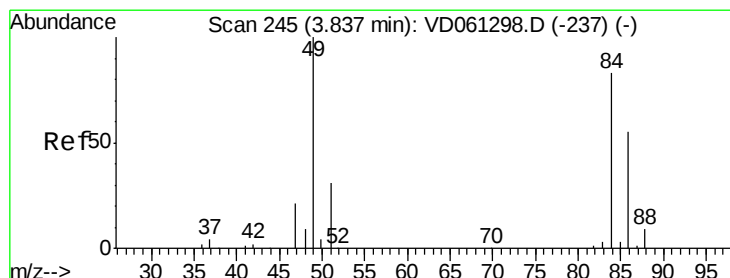
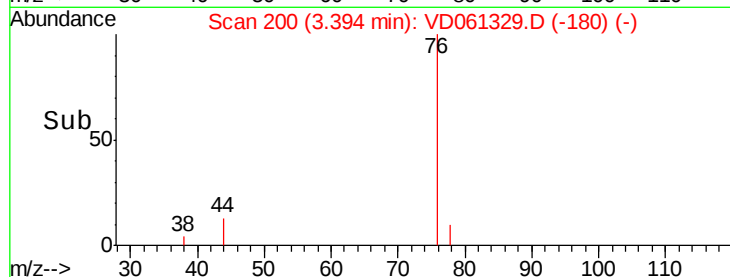
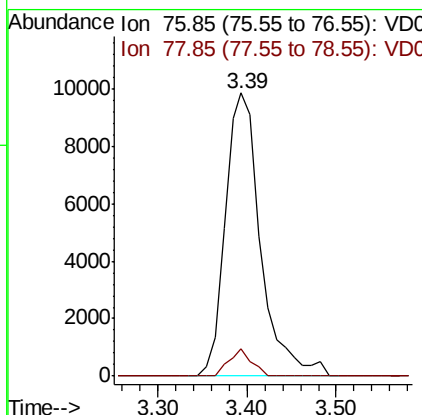
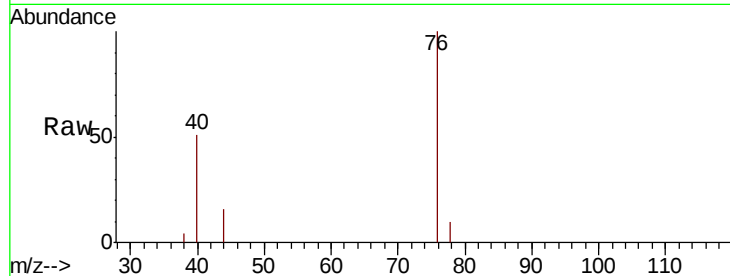




#17
Carbon Disulfide
Concen: 1.774 ug/l
RT: 3.39 min Scan# 200
Delta R.T. -0.00 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

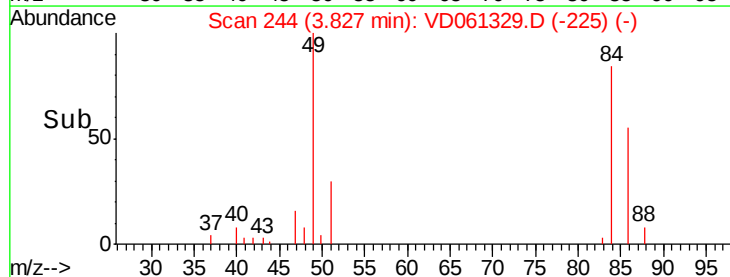
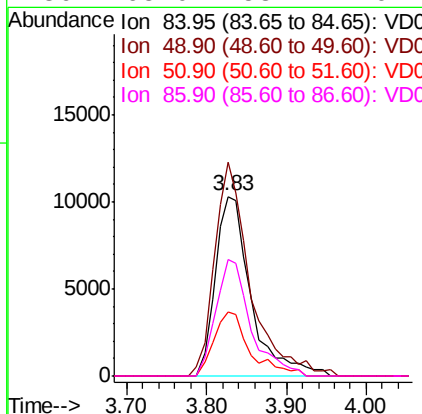
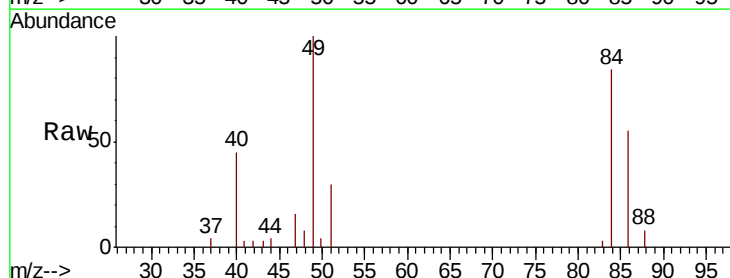
Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(28-30)

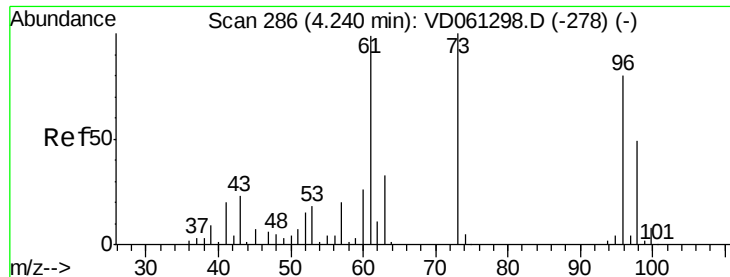
Tot Ion: 76 Resp: 27286
Ion Ratio Lower Upper
76 100
78 9.6 7.8 11.6



#20
Methylene Chloride
Concen: 5.741 ug/l
RT: 3.83 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Tgt Ion: 84 Resp: 32267
Ion Ratio Lower Upper
84 100
49 119.1 96.8 145.2
51 35.7 29.9 44.9
86 65.0 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 1.173 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.01 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(28-30)

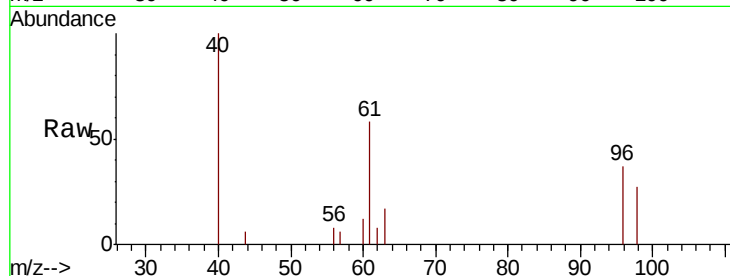
Tot Ion: 96 Resp: 6081

Ion Ratio Lower Upper

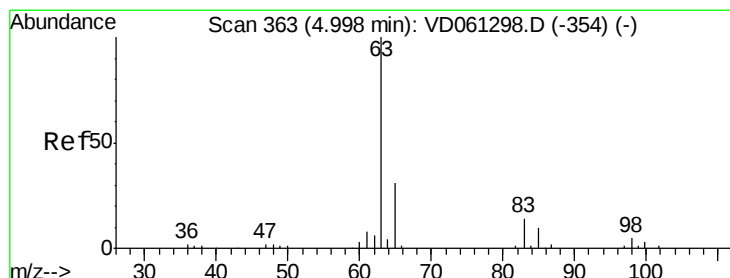
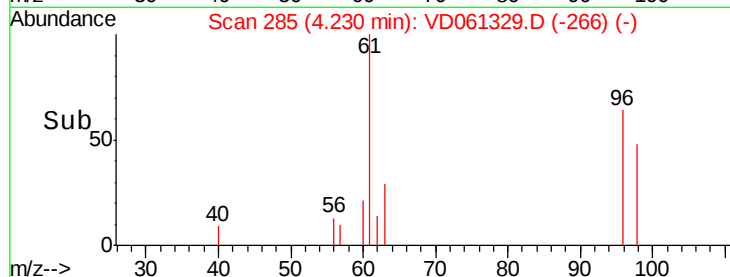
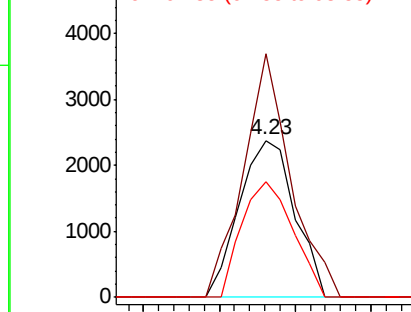
96 100

61 155.5 99.2 148.8#

98 74.0 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: 1.385 ug/l

RT: 5.00 min Scan# 363

Delta R.T. -0.00 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

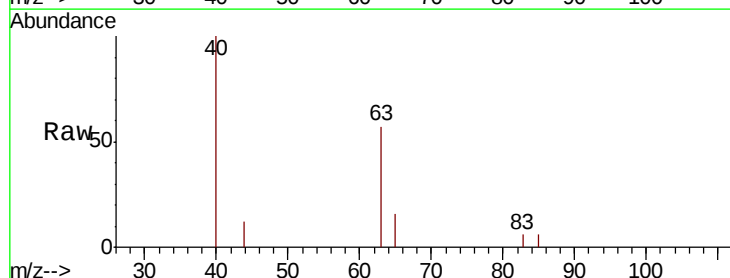
Tgt Ion: 63 Resp: 11171

Ion Ratio Lower Upper

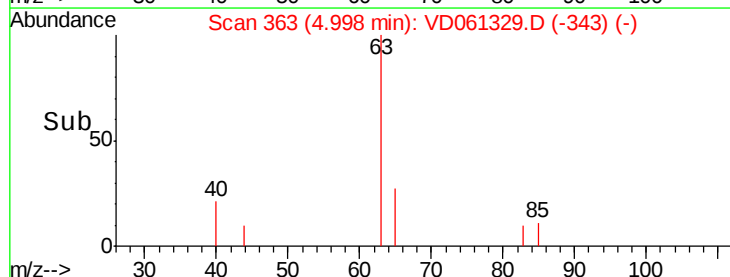
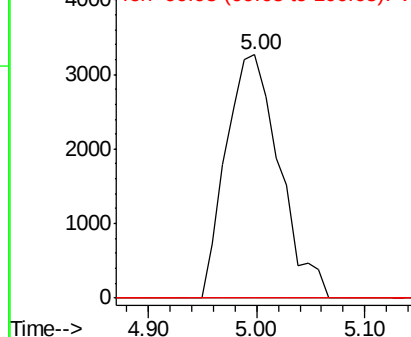
63 100

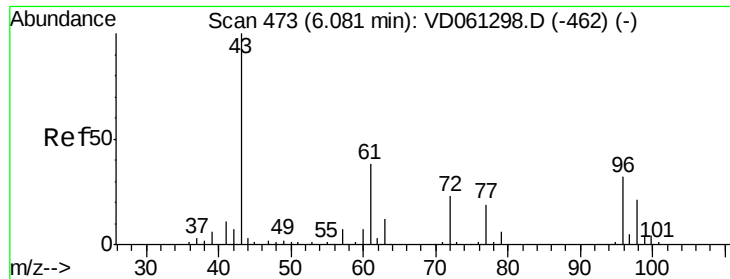
98 0.0 2.8 8.3#

100 0.0 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

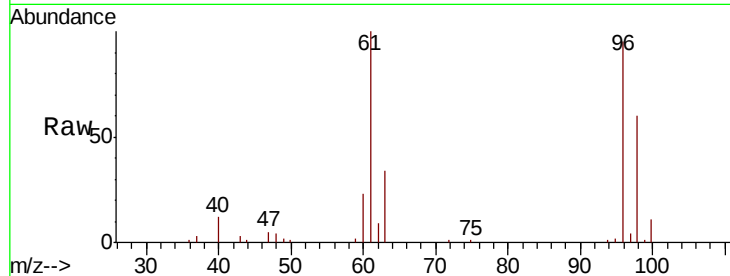




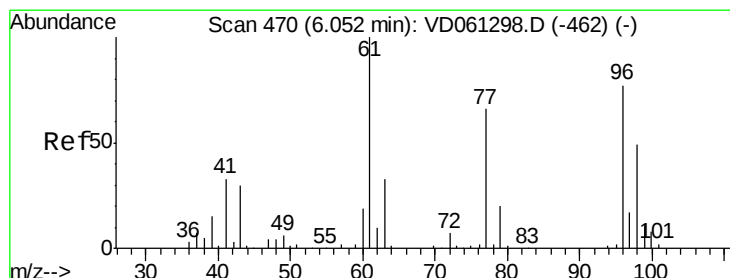
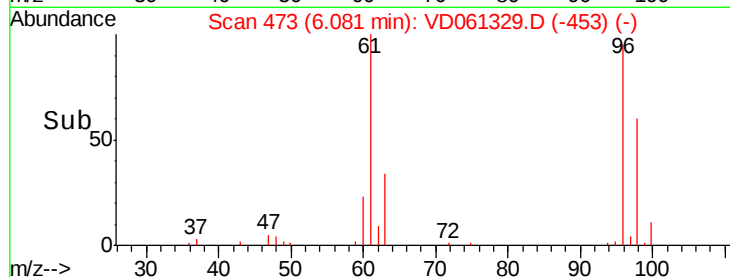
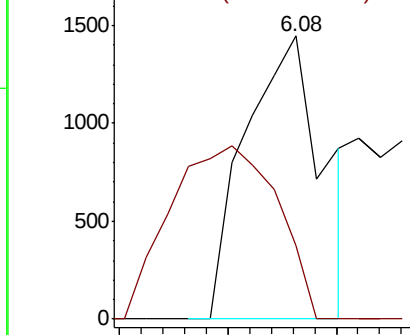
#25
2-Butanone
Concen: 3.156 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.00 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(28-30)

Tot Ion: 43 Resp: 3615
Ion Ratio Lower Upper
43 100
72 25.9 18.5 27.7

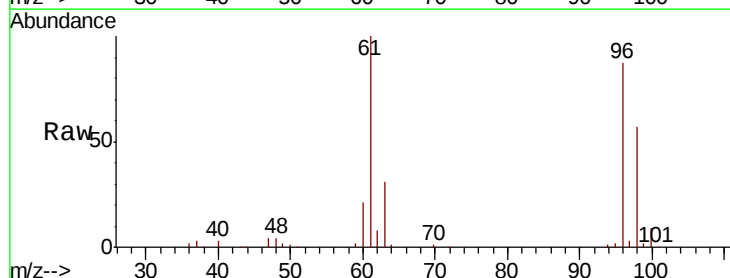


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

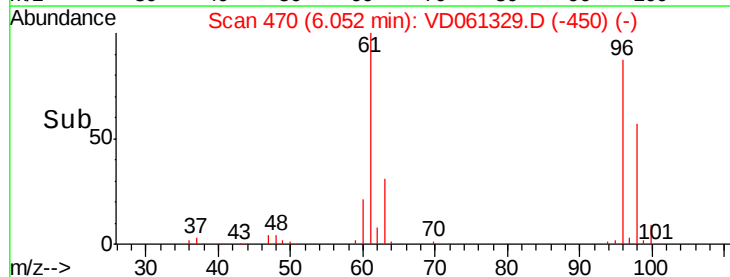
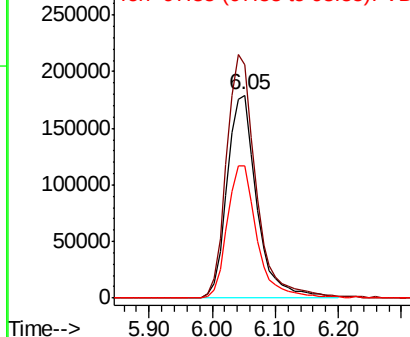


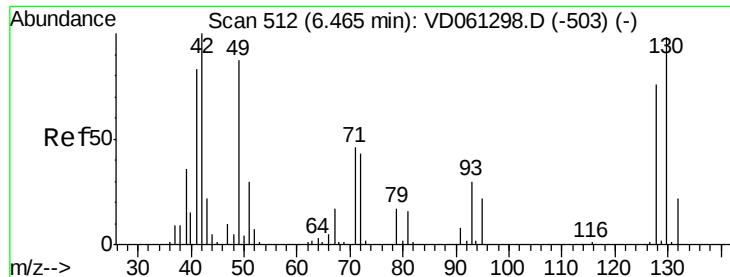
#27
cis-1,2-Dichloroethene
Concen: 104.883 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.00 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Tgt Ion: 96 Resp: 584935
Ion Ratio Lower Upper
96 100
61 115.0 0.0 261.0
98 65.2 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





#29

Tetrahydrofuran

Concen: 1.452 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

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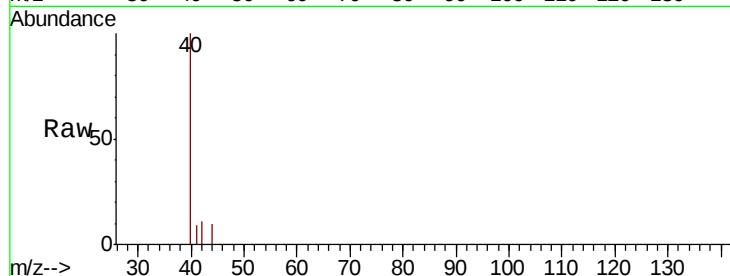
Tot Ion: 42 Resp: 828

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

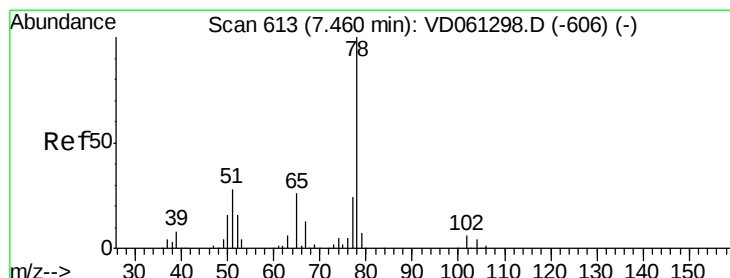
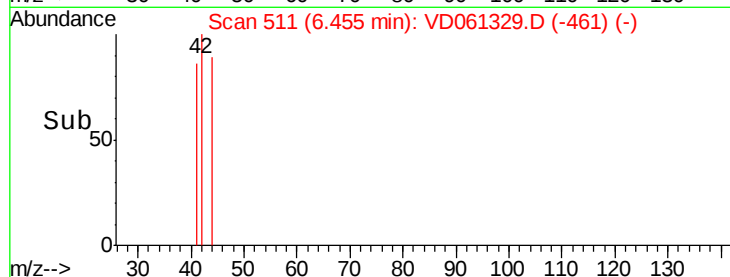
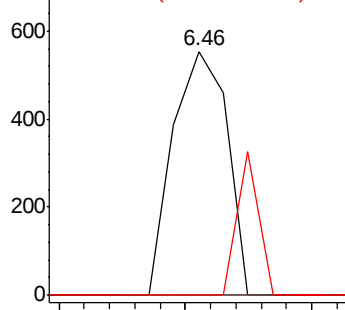
71 23.2 36.3 54.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061329.D

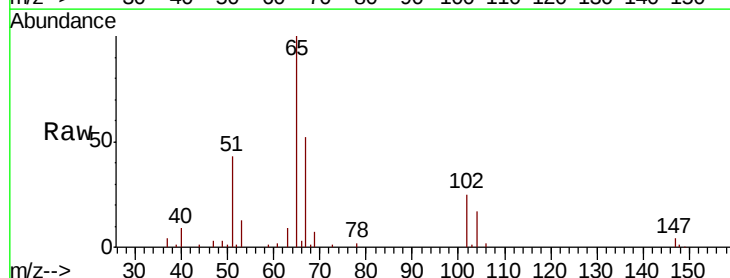
Acq: 26 Mar 2019 6:10

Tgt Ion: 65 Resp: 198730

Ion Ratio Lower Upper

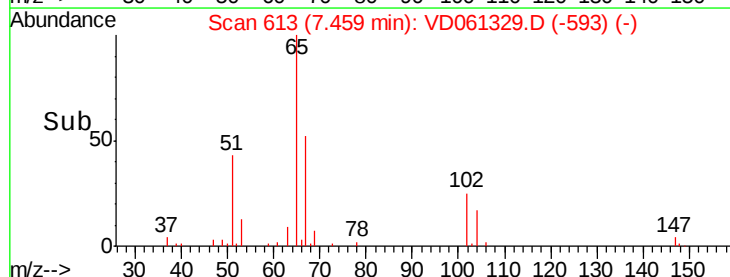
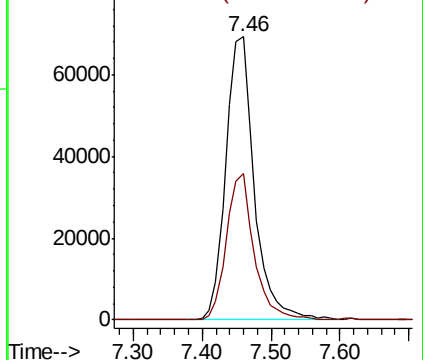
65 100

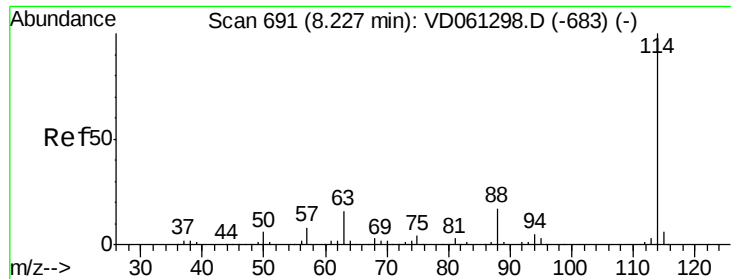
67 51.6 0.0 100.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

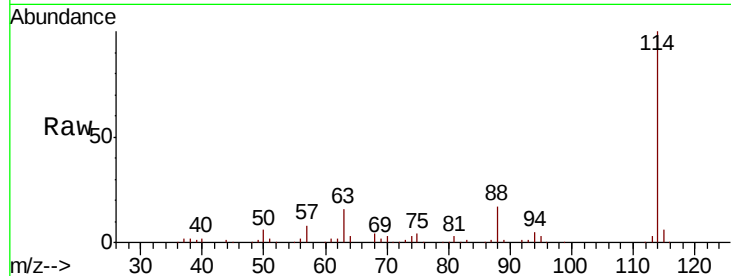




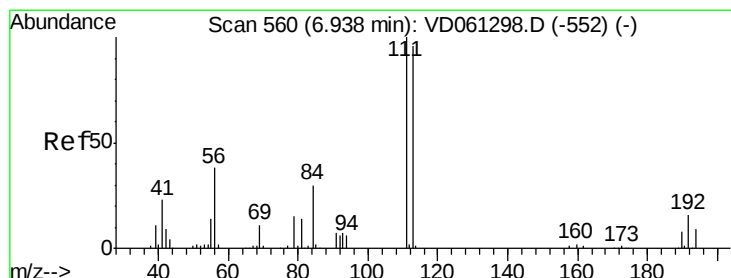
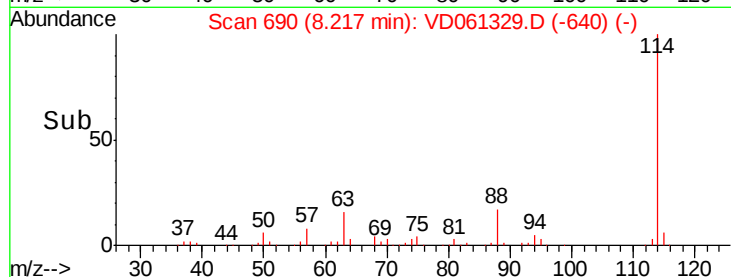
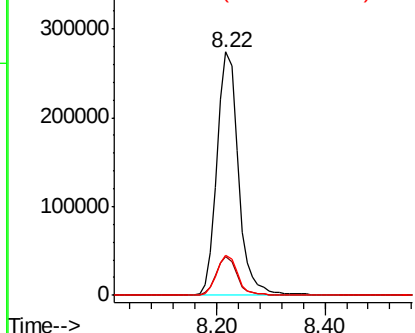
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061329.D
 Acq: 26 Mar 2019 6:10

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(28-30)

Tot Ion:114 Resp: 753421
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 31.4
 88 16.6 0.0 33.2

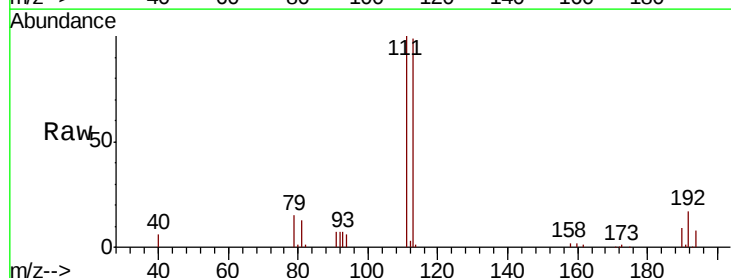


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

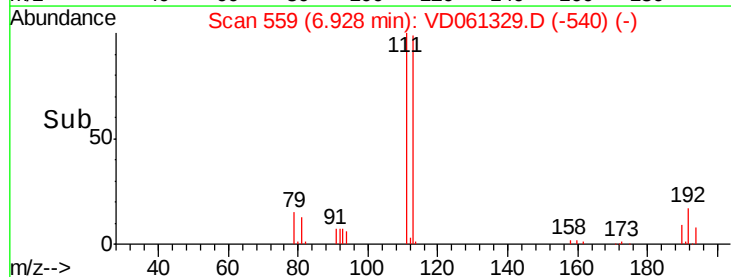
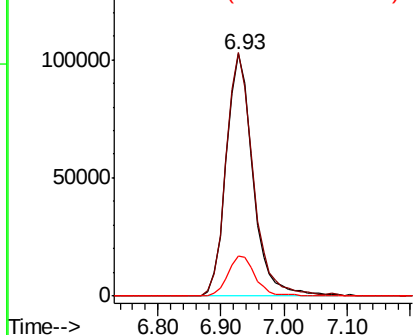


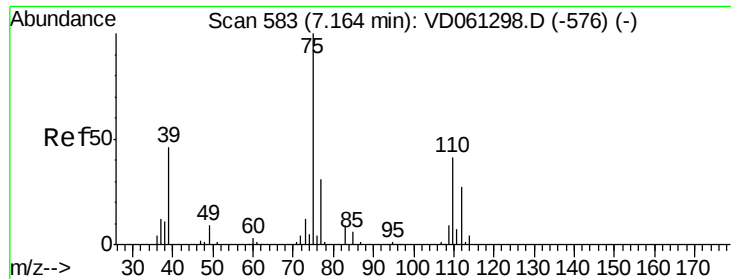
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD061329.D
 Acq: 26 Mar 2019 6:10

Tgt Ion:113 Resp: 300996
 Ion Ratio Lower Upper
 113 100
 111 100.6 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

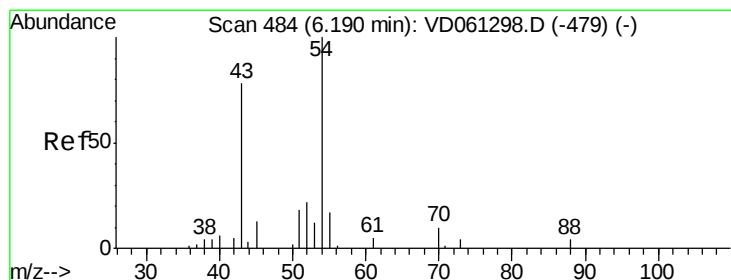
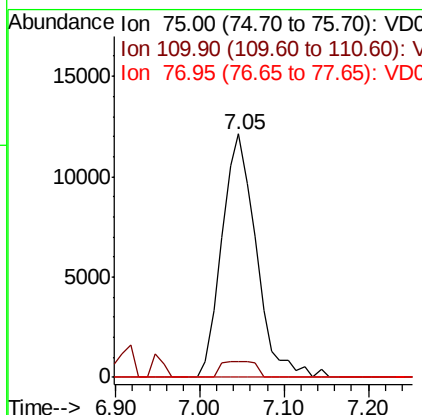
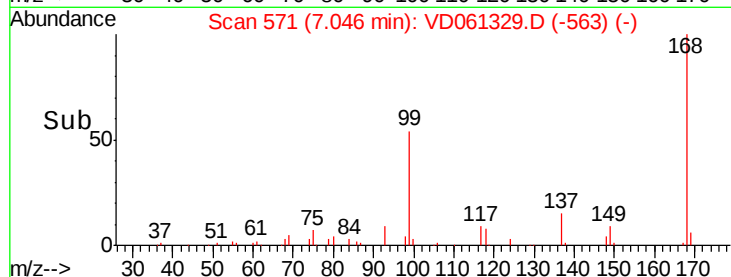
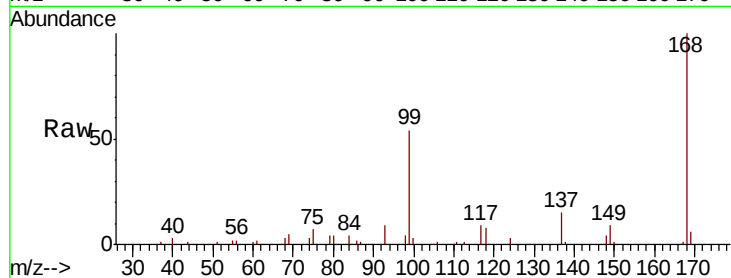




#36
 1,1-Dichloropropene
 Concen: 5.568 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD061329.D
 Acq: 26 Mar 2019 6:10

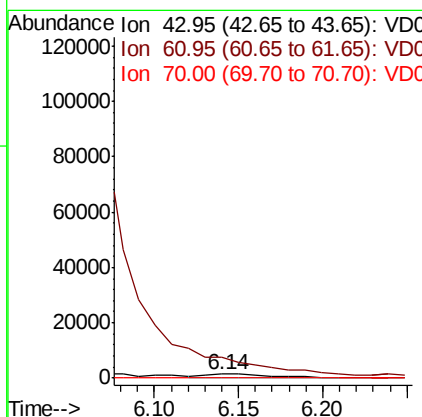
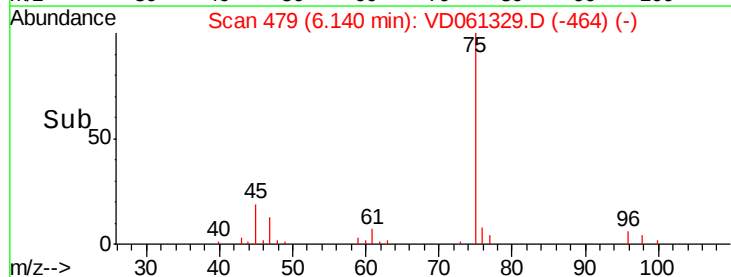
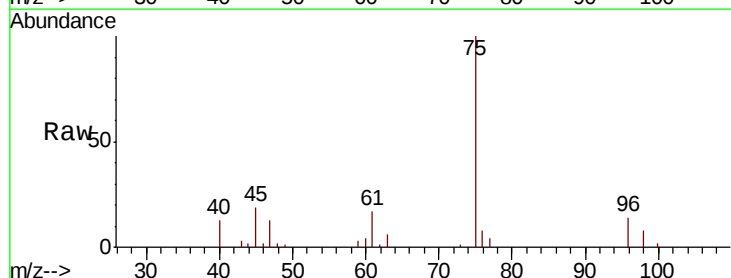
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(28-30)

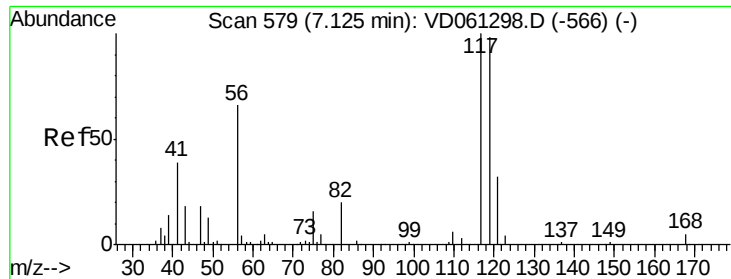
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.3	20.1	60.2#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 1.437 ug/l
 RT: 6.14 min Scan# 479
 Delta R.T. -0.05 min
 Lab File: VD061329.D
 Acq: 26 Mar 2019 6:10

Tgt Ion	Ratio	Lower	Upper
43	100		
61	555.8	12.6	19.0#
70	0.0	8.2	12.4#

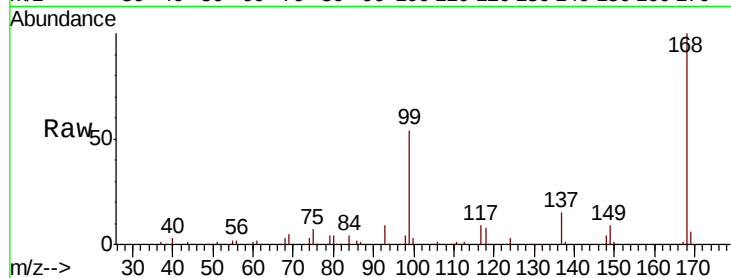




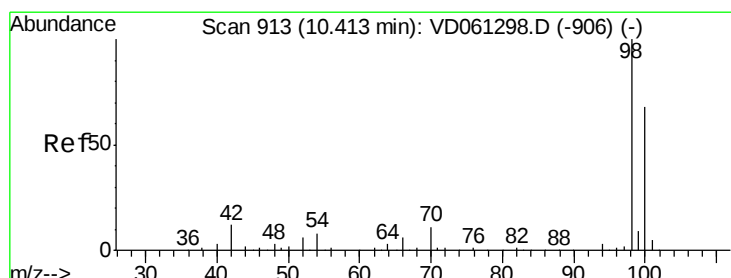
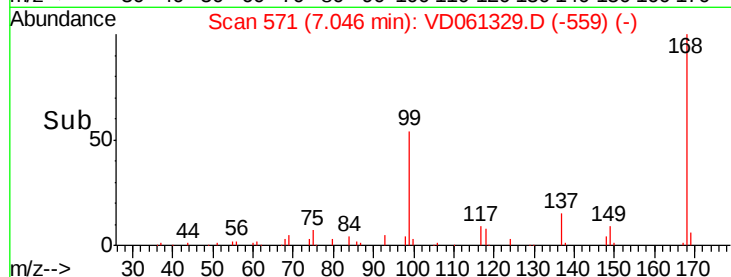
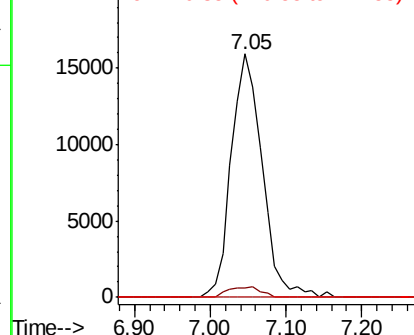
#38
Carbon Tetrachloride
Concen: 6.398 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.08 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(28-30)

Tot Ion:117 Resp: 45078
Ion Ratio Lower Upper
117 100
119 4.0 78.4 117.6#
121 0.0 25.1 37.7#

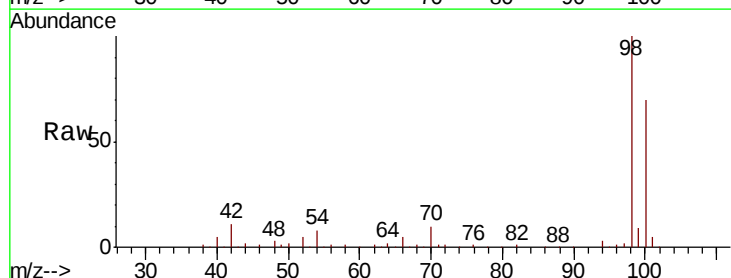


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

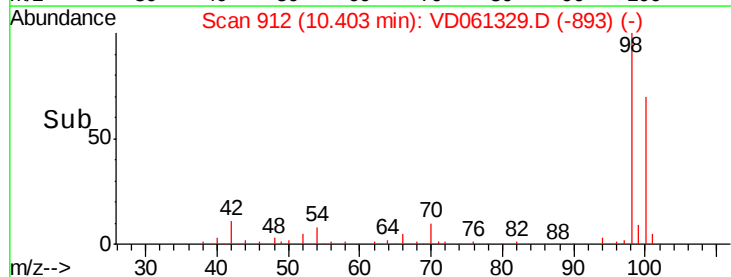
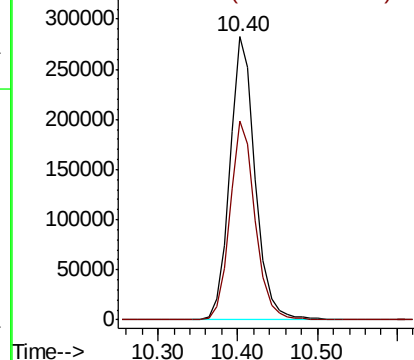


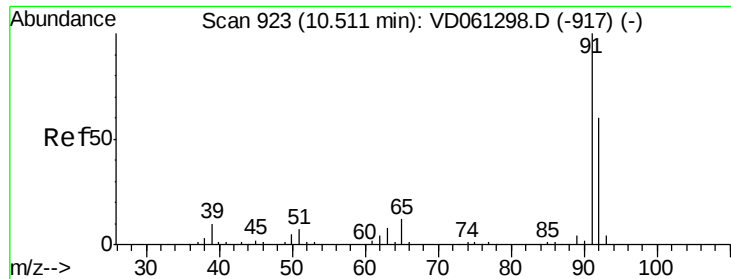
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Tgt Ion: 98 Resp: 630714
Ion Ratio Lower Upper
98 100
100 70.3 55.4 83.0



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





#52

Toluene

Concen: 1.888 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

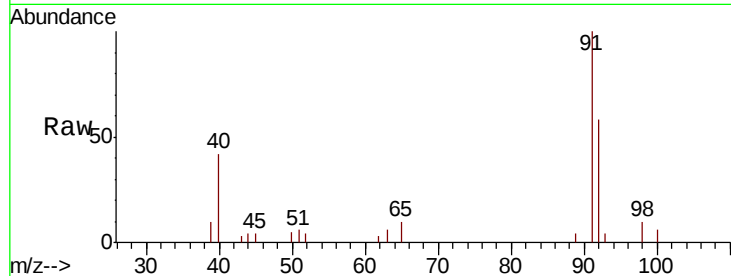
WP022SB432-190320-(28-30)

Tot Ion: 92 Resp: 17688

Ion Ratio Lower Upper

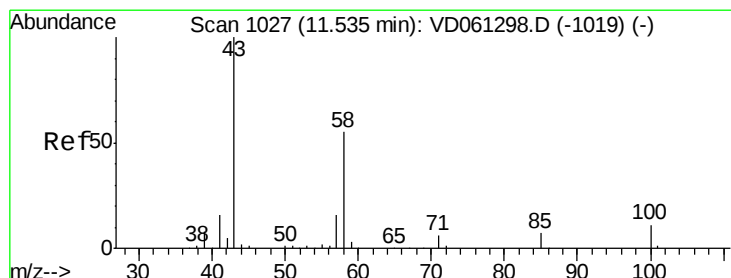
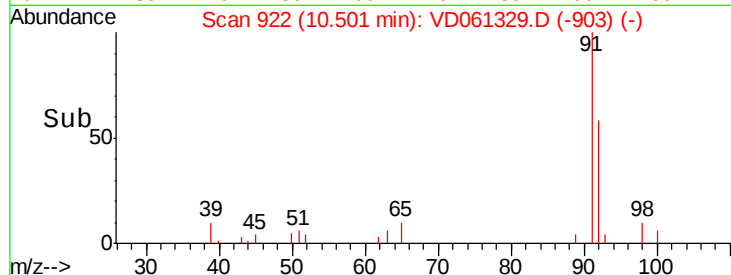
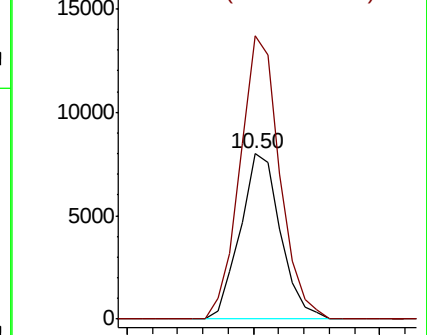
92 100

91 171.3 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 1.163 ug/l

RT: 11.48 min Scan# 1021

Delta R.T. -0.06 min

Lab File: VD061329.D

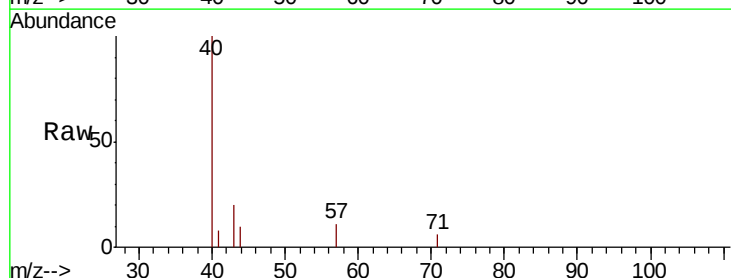
Acq: 26 Mar 2019 6:10

Tgt Ion: 43 Resp: 1867

Ion Ratio Lower Upper

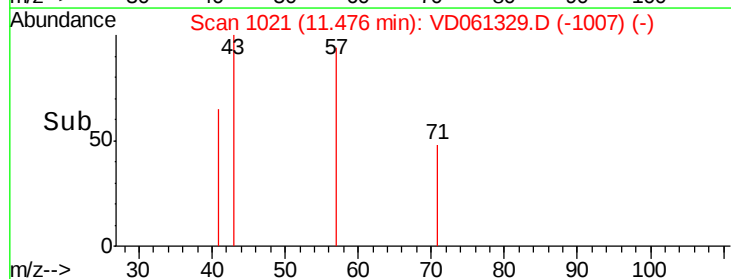
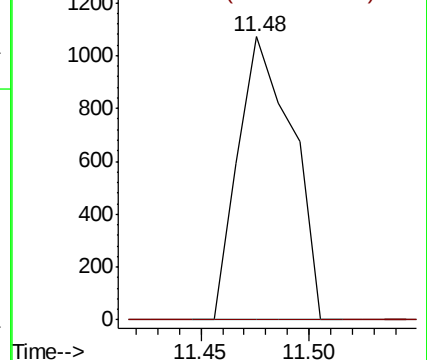
43 100

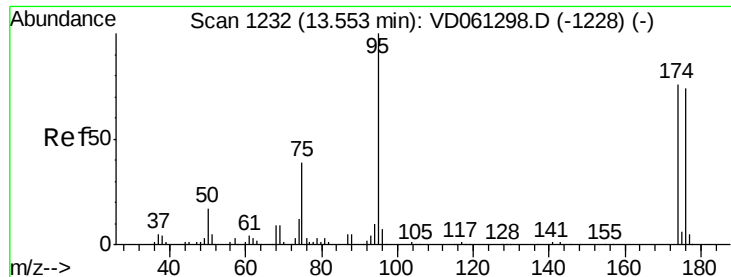
58 0.0 27.4 82.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(28-30)

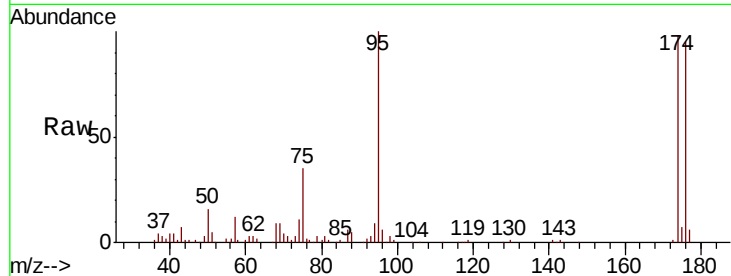
Tot Ion: 95 Resp: 205511

Ion Ratio Lower Upper

95 100

174 97.7 0.0 151.8

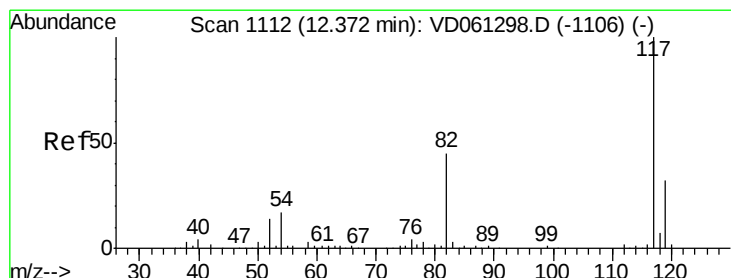
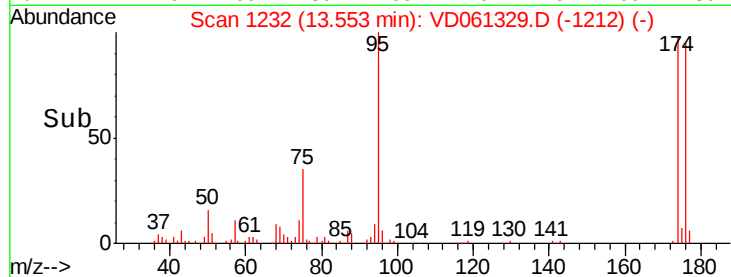
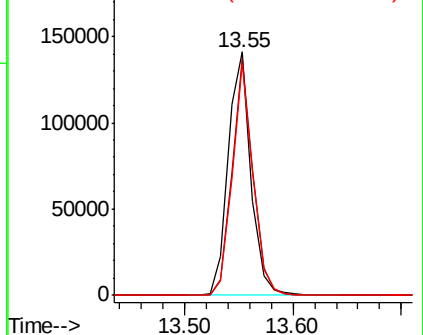
176 95.2 0.0 148.0



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: 12.36 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

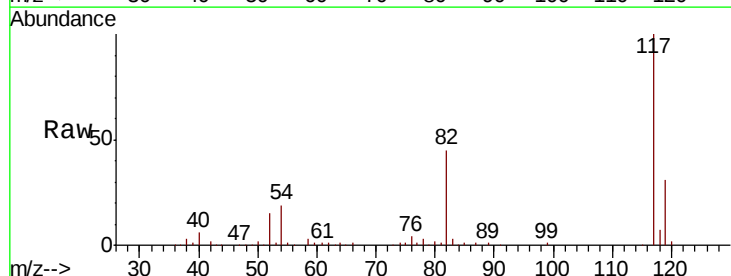
Tgt Ion: 117 Resp: 599143

Ion Ratio Lower Upper

117 100

82 45.3 35.7 53.5

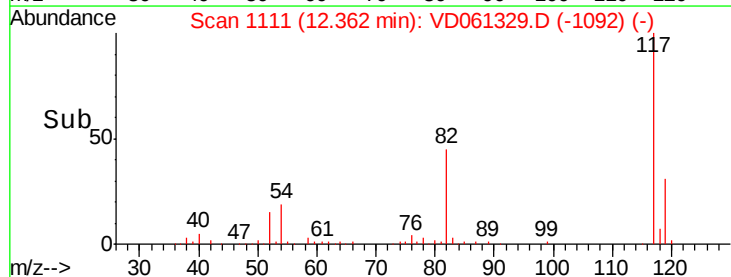
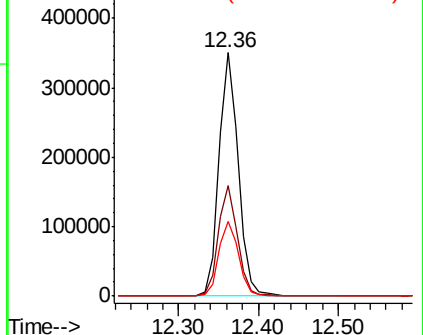
119 30.9 25.9 38.9

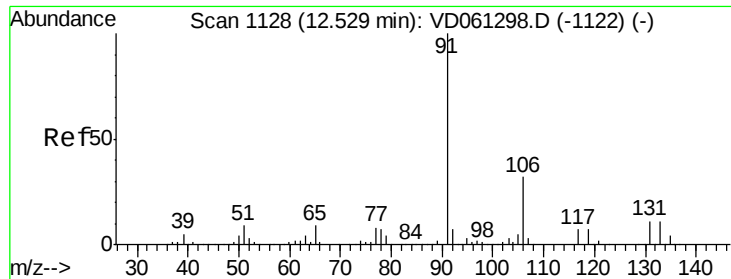


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

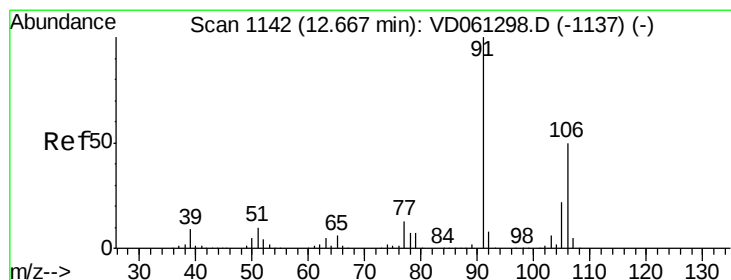
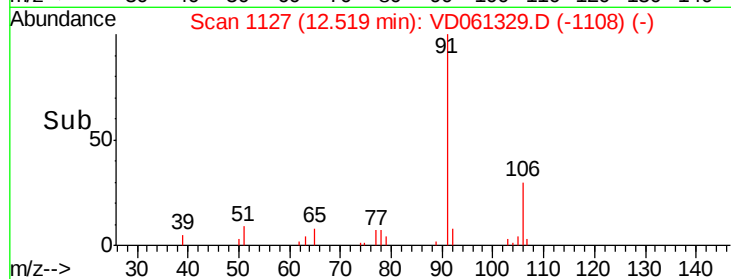
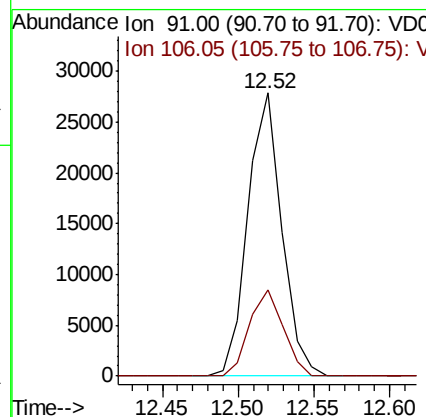
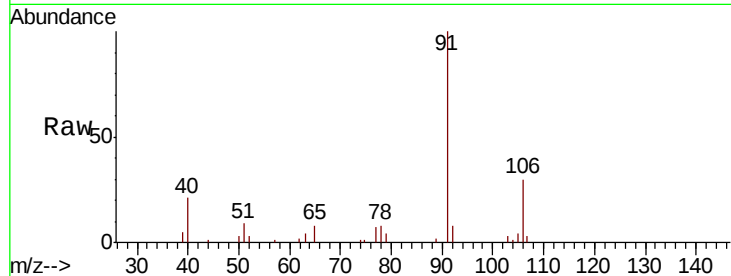




#67
Ethyl Benzene
Concen: 2.574 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

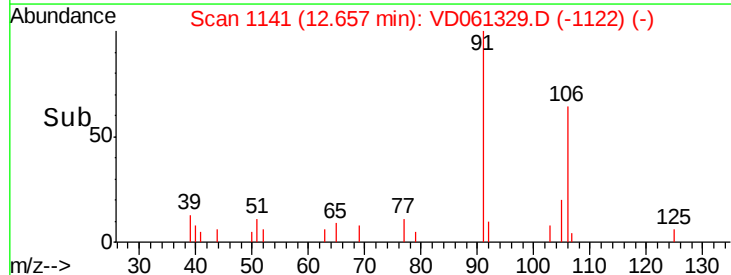
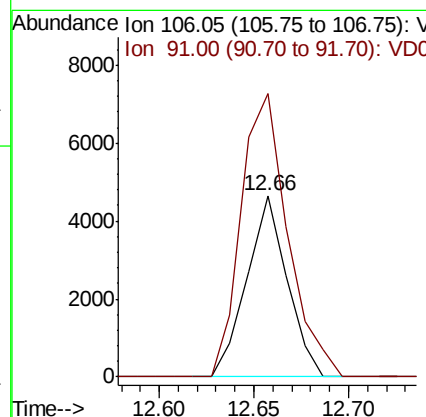
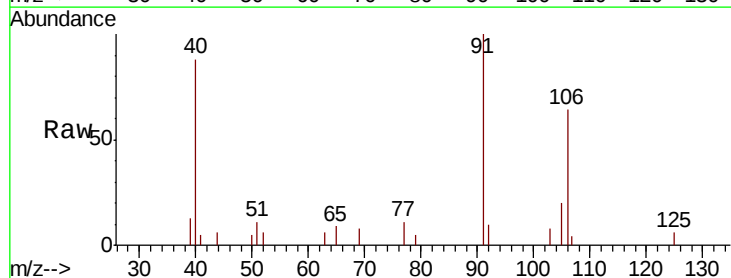
Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(28-30)

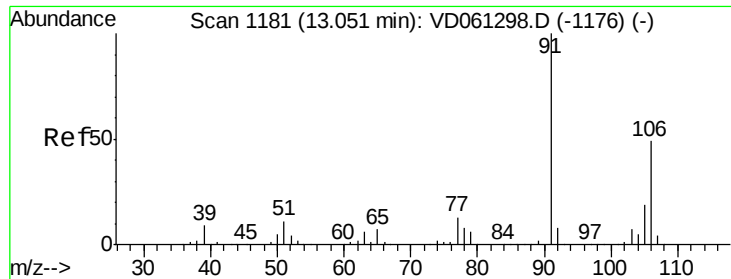
Tot Ion: 91 Resp: 43473
Ion Ratio Lower Upper
91 100
106 30.4 25.8 38.8



#68
m/p-Xylenes
Concen: 1.043 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Tgt Ion: 106 Resp: 6873
Ion Ratio Lower Upper
106 100
91 155.9 159.2 238.8#

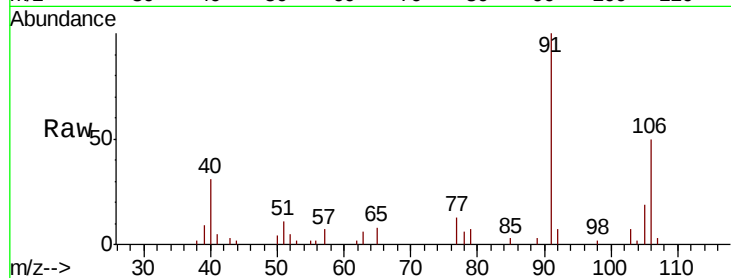




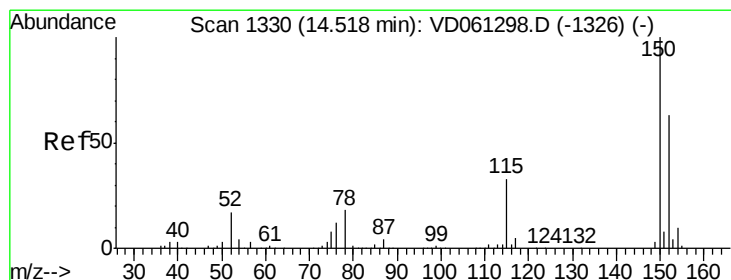
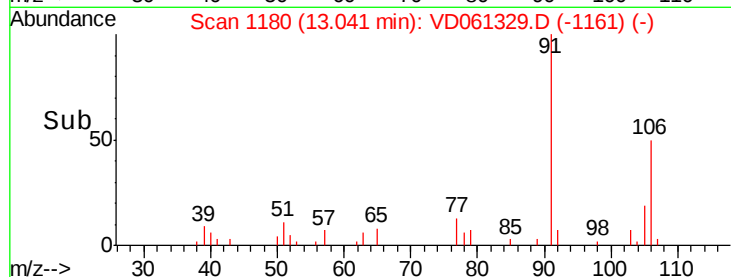
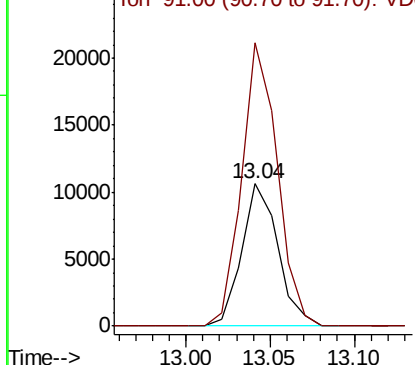
#69
o-Xylene
Concen: 2.587 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(28-30)

Tot Ion:106 Resp: 15816
Ion Ratio Lower Upper
106 100
91 199.2 102.5 307.5

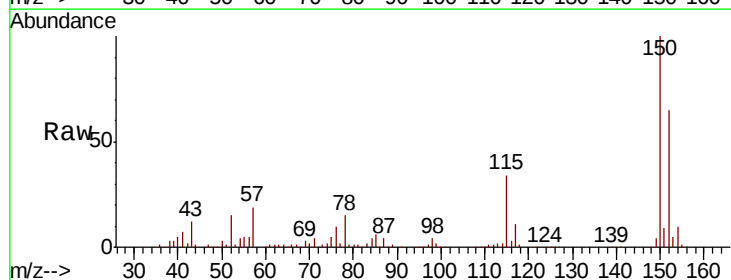


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

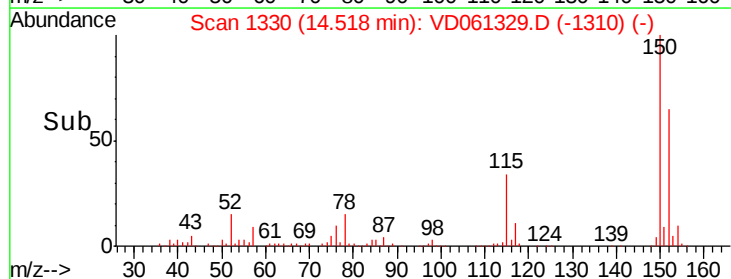
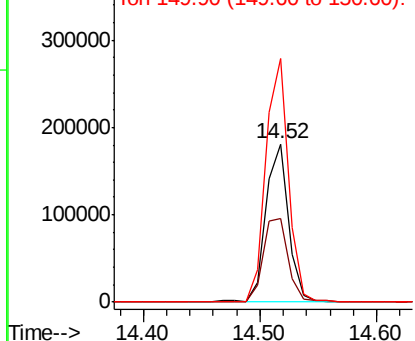


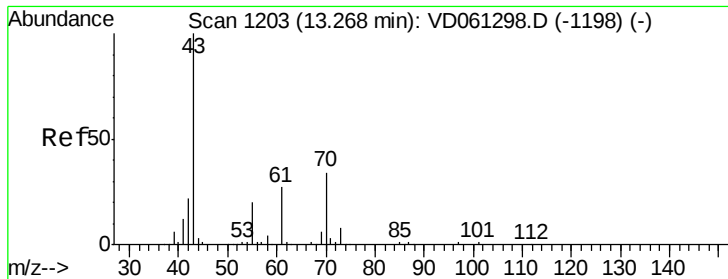
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061329.D
Acq: 26 Mar 2019 6:10

Tgt Ion:152 Resp: 245368
Ion Ratio Lower Upper
152 100
115 52.9 29.2 87.6
150 154.0 0.0 319.6



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





#74

N-amvl acetate

Concen: 8.391 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.05 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 43 Resp: 35036

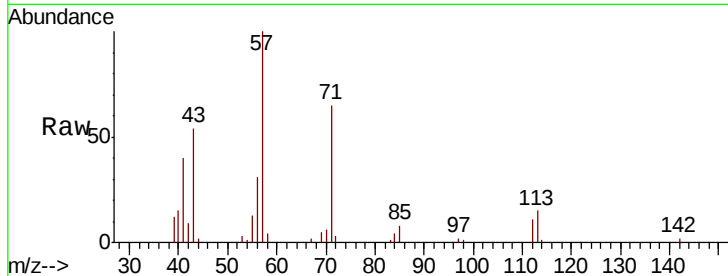
Ion Ratio Lower Upper

43 100

70 11.9 27.5 41.3#

55 24.6 15.7 23.5#

61 0.0 21.8 32.6#

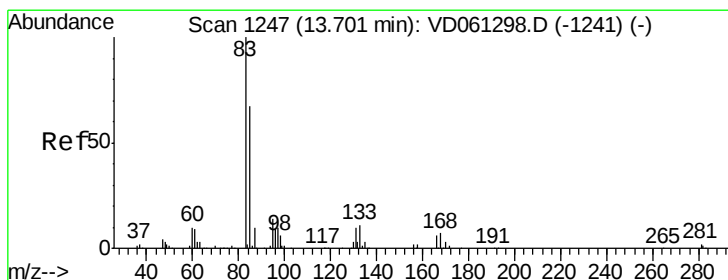
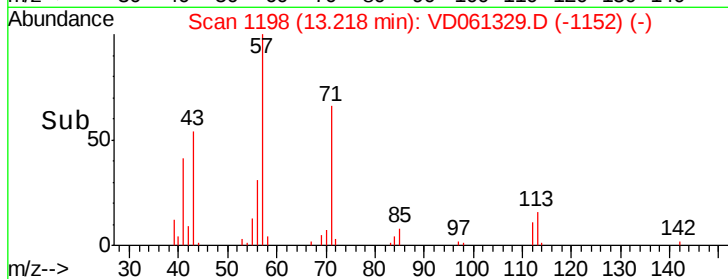
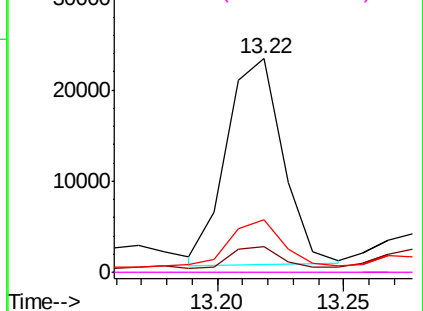


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 1.021 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

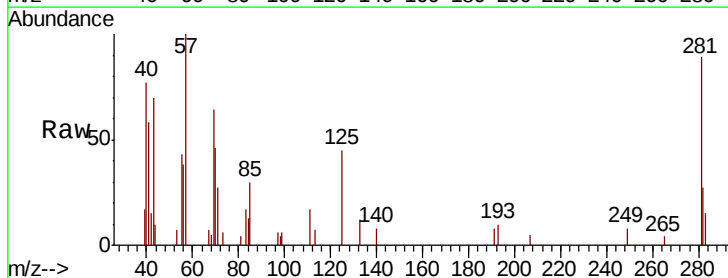
Tgt Ion: 83 Resp: 3160

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

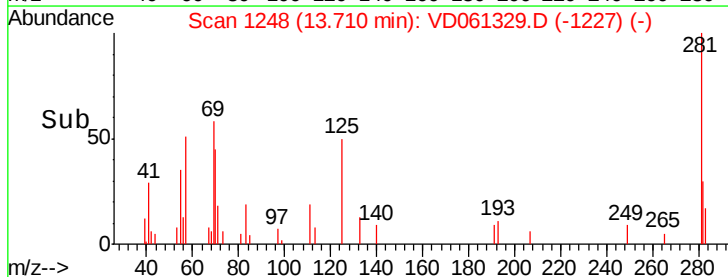
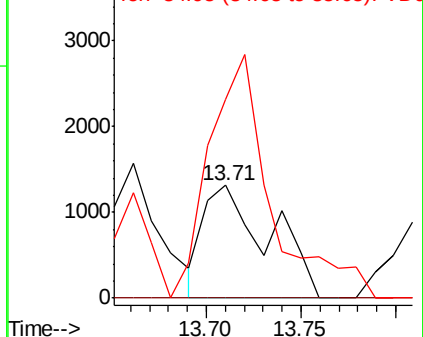
85 177.1 33.4 100.2#

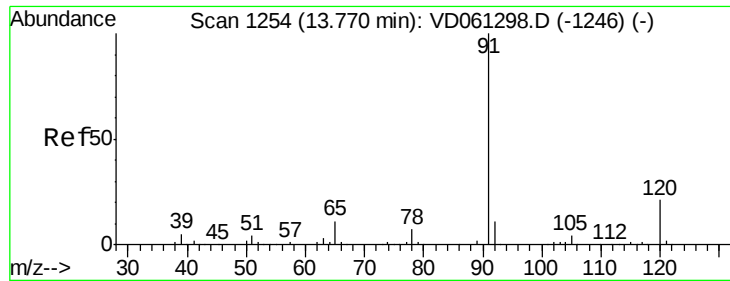


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC





#78

n-propylbenzene

Concen: 9.453 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

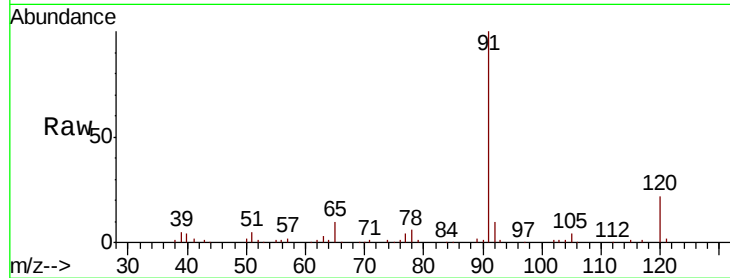
WP022SB432-190320-(28-30)

Tot Ion: 91 Resp: 170202

Ion Ratio Lower Upper

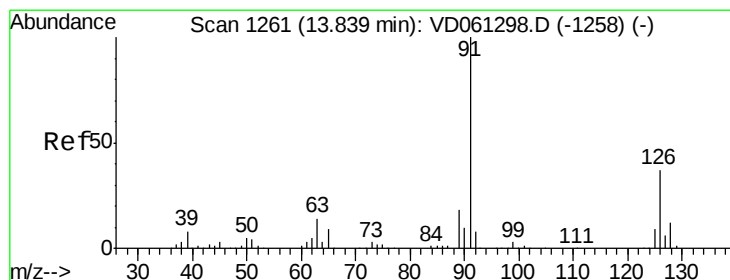
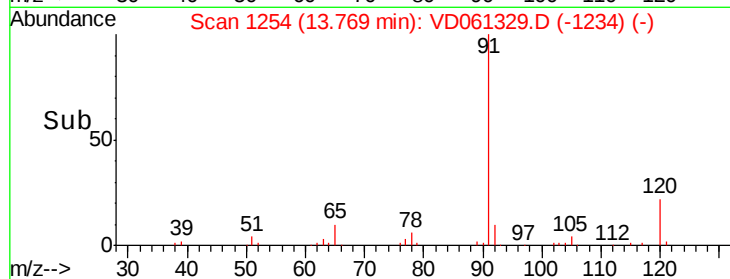
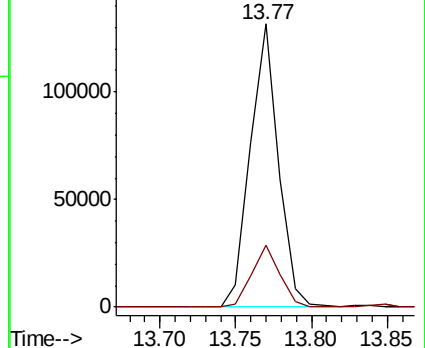
91 100

120 21.9 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#79

2-Chlorotoluene

Concen: 16.235 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.07 min

Lab File: VD061329.D

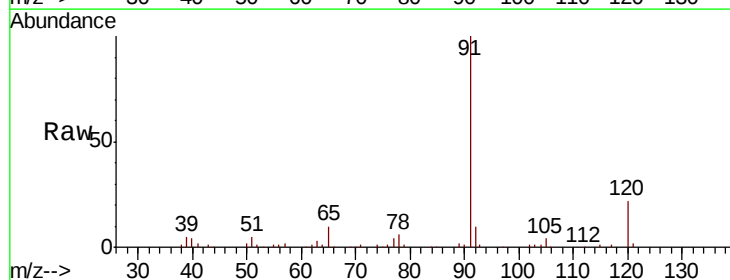
Acq: 26 Mar 2019 6:10

Tgt Ion: 91 Resp: 170202

Ion Ratio Lower Upper

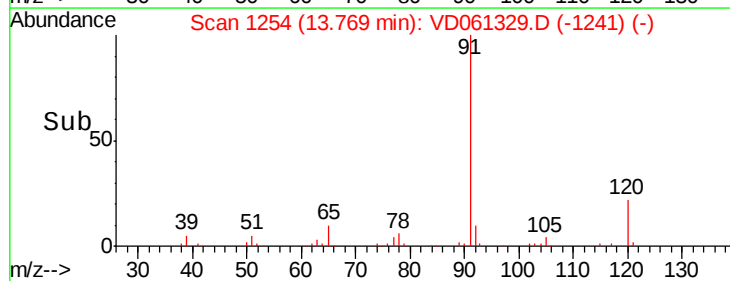
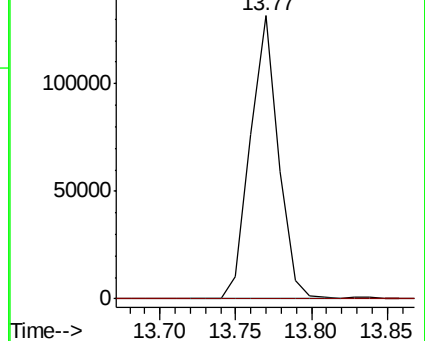
91 100

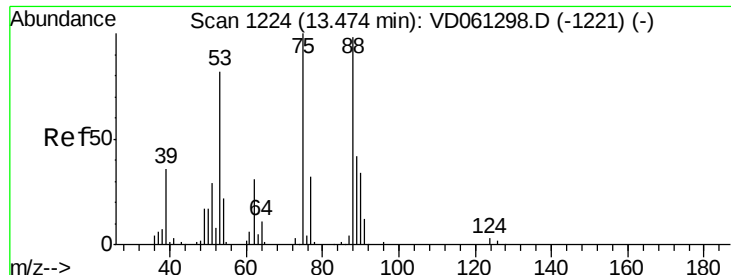
126 0.0 18.4 55.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 79.021 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061329.D

Acq: 26 Mar 2019 6:10

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(28-30)

Tot Ion: 75 Resp: 76097

Ion Ratio Lower Upper

75 100

53 0.0 65.3 97.9#

89 0.0 33.8 50.6#

