

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061312.D
 Acq On : 25 Mar 2019 19:57
 Operator : VA/AP
 Sample : K2043-11
 Misc : 6.09g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB430-190319-(23-26)

Quant Time: Mar 26 04:30:10 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	608223	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1047691	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	726933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	233619	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	179005	34.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.22%	
35) Dibromofluoromethane	6.93	113	282942	35.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.58%	
50) Toluene-d8	10.41	98	643420	33.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.20%	
62) 4-Bromofluorobenzene	13.56	95	198374	26.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.32%	

Target Compounds

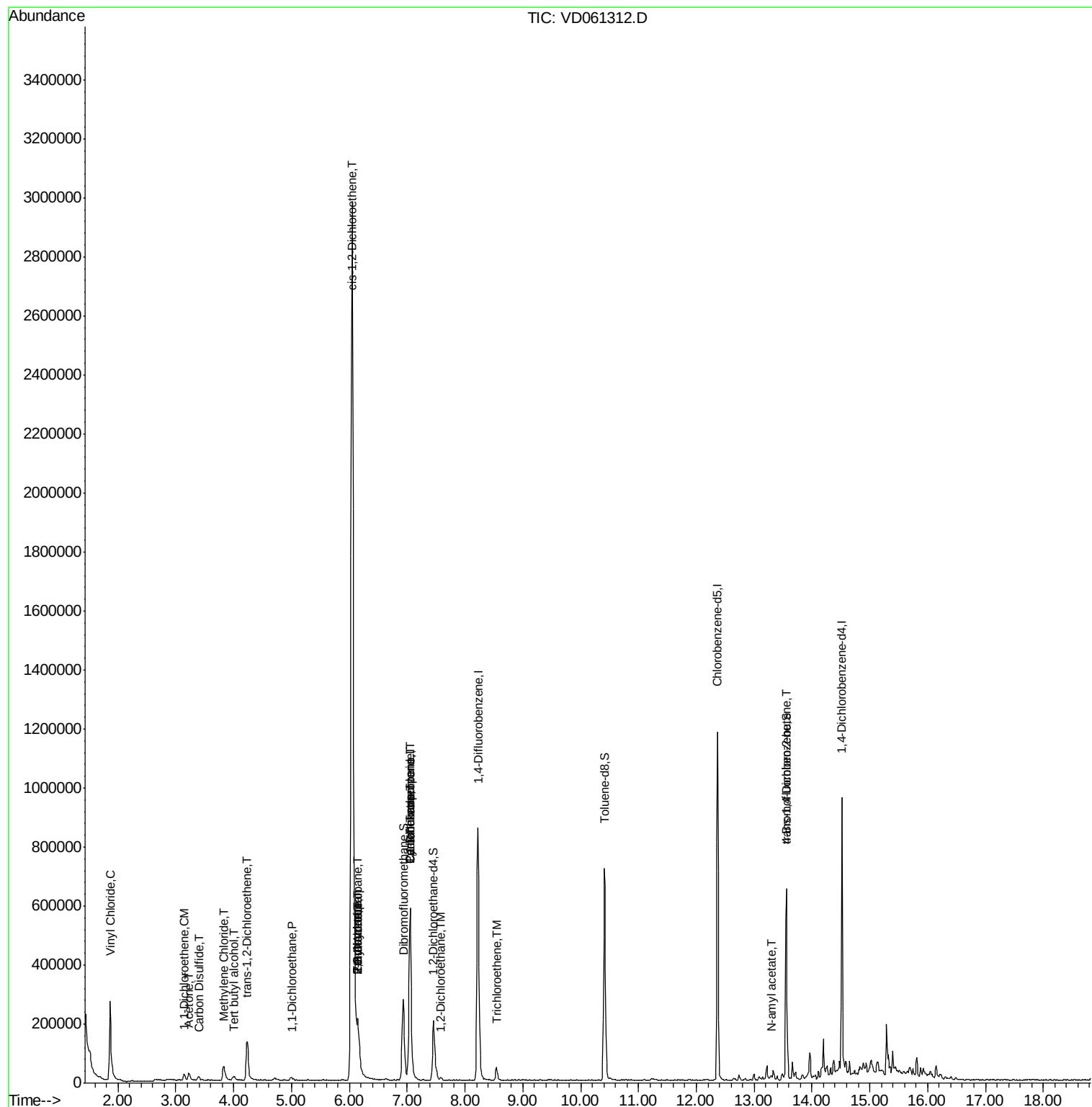
						Qvalue
4) Vinyl Chloride	1.86	62	364503	80.362	ug/l	98
11) Tert butyl alcohol	4.01	59	14736	52.752	ug/l #	77
12) 1,1-Dichloroethene	3.14	96	11714	1.995	ug/l	92
16) Acetone	3.22	43	44604	35.536	ug/l	94
17) Carbon Disulfide	3.39	76	26175	1.342	ug/l #	92
20) Methylene Chloride	3.82	84	38688	5.431	ug/l	88
21) trans-1,2-Dichloroethene	4.24	96	92616	14.099	ug/l	99
24) 1,1-Dichloroethane	5.00	63	19706	1.927	ug/l #	86
25) 2-Butanone	6.16	43	8429	5.806	ug/l #	52
26) 2,2-Dichloropropane	6.15	77	9168	1.056	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	2374182	335.849	ug/l	93
29) Tetrahydrofuran	6.14	42	1605	2.221	ug/l #	31
31) Cyclohexane	7.05	56	10421	1.256	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	43701	5.098	ug/l #	46
37) Ethyl Acetate	6.16	43	8429	2.354	ug/l #	1
38) Carbon Tetrachloride	7.05	117	58445	5.966	ug/l #	15
42) 1,2-Dichloroethane	7.58	62	8731	1.316	ug/l	96
44) Trichloroethene	8.55	130	22351	2.903	ug/l	98
74) N-amyl acetate	13.29	43	4929	1.240	ug/l #	49
81) trans-1,4-Dichloro-2-buten	13.56	75	72612	79.194	ug/l #	18

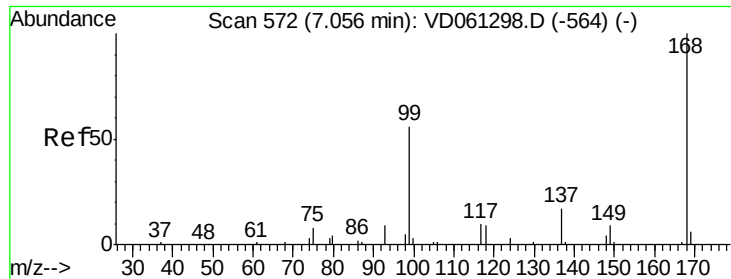
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 03:31:57 2019
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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: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

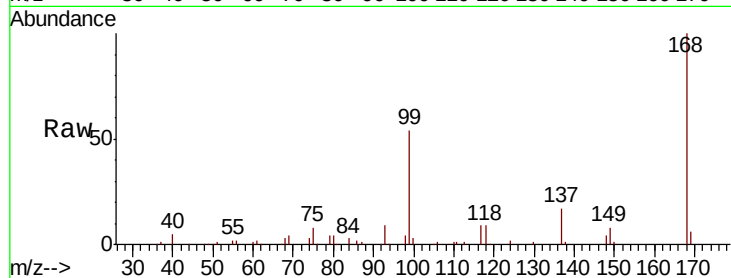
WP022SB430-190319-(23-26)

Tot Ion:168 Resp: 608223

Ion Ratio Lower Upper

168 100

99 53.8 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

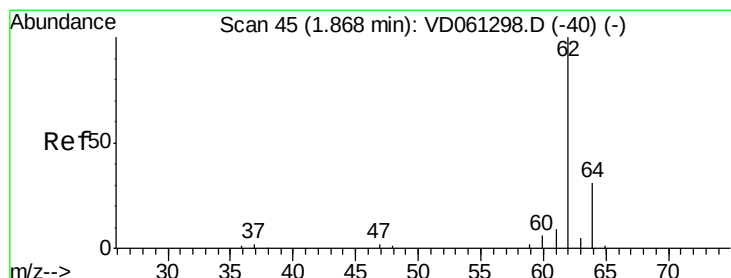
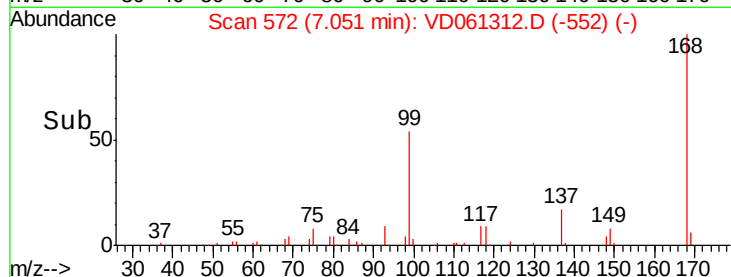
100000

50000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#4

Vinyl Chloride

Concen: 80.362 ug/l

RT: 1.86 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061312.D

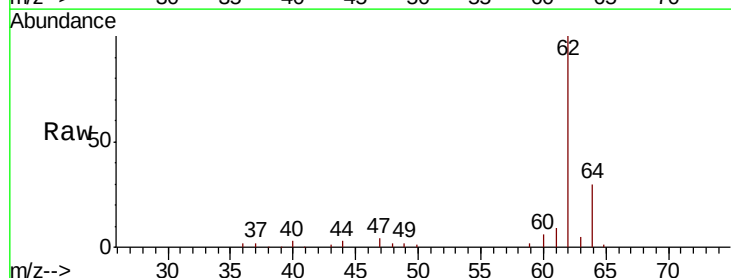
Acq: 25 Mar 2019 19:57

Tgt Ion: 62 Resp: 364503

Ion Ratio Lower Upper

62 100

64 30.2 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.86

150000

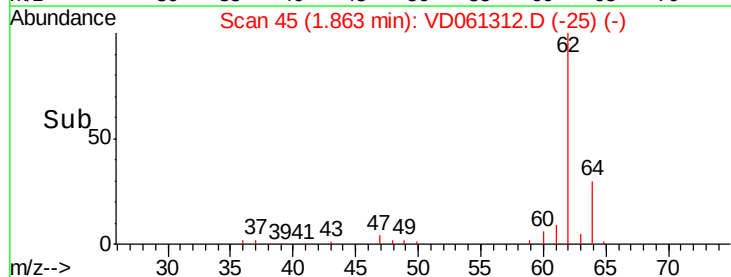
100000

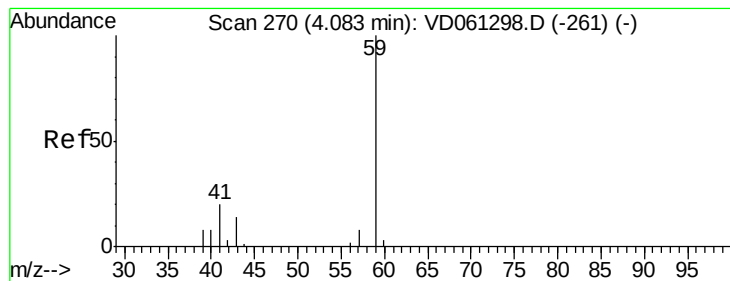
50000

0

Time-->

1.80 1.90 2.00 2.10



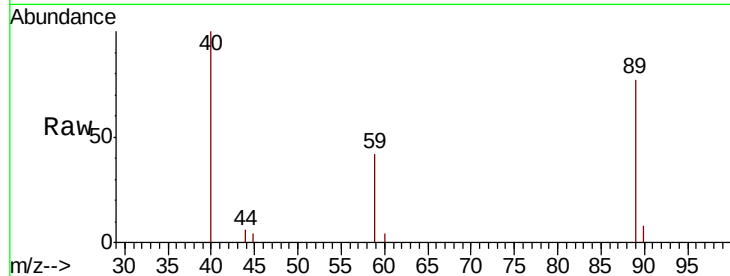


#11

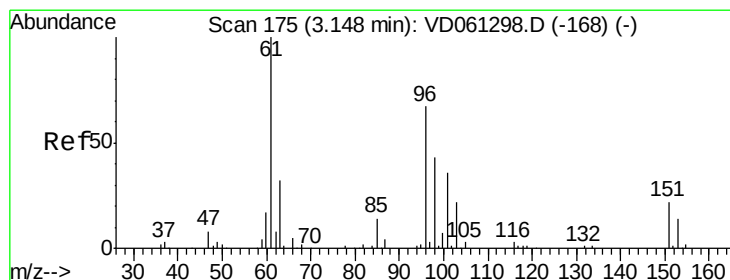
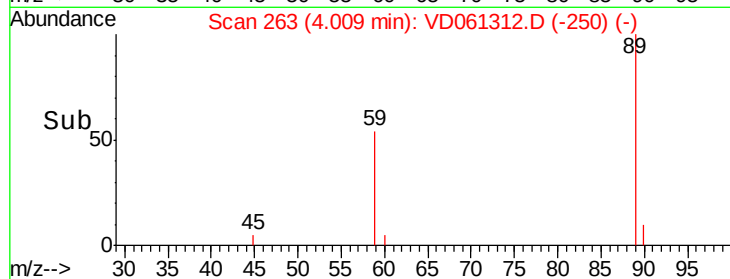
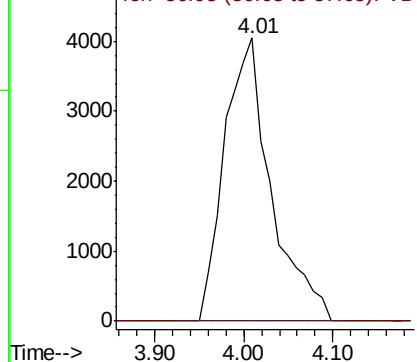
Tert butyl alcohol
Concen: 52.752 ug/l
RT: 4.01 min Scan# 263
Delta R.T. -0.07 min
Lab File: VD061312.D
Acq: 25 Mar 2019 19:57

Instrument :
MSVOA_D
ClientSampleId :
WP022SB430-190319-(23-26)

Tot Ion: 59 Resp: 14736
Ion Ratio Lower Upper
59 100
57 0.0 6.6 9.8#



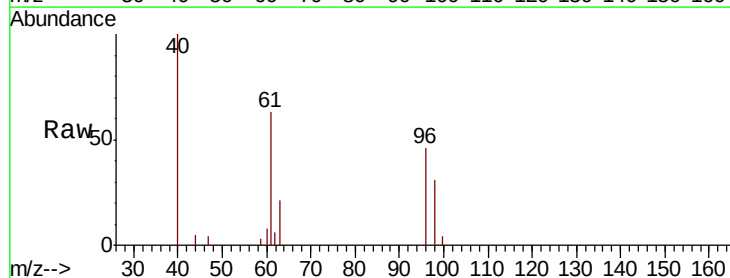
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



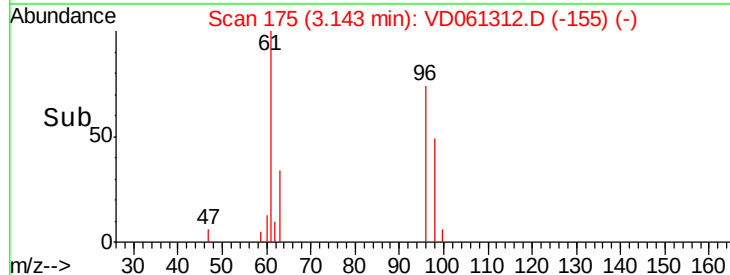
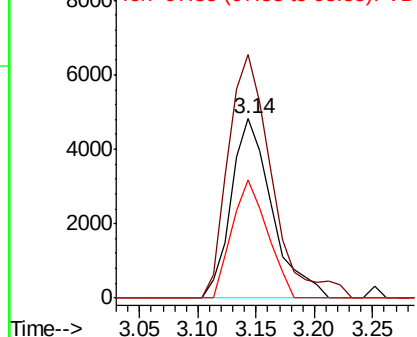
#12

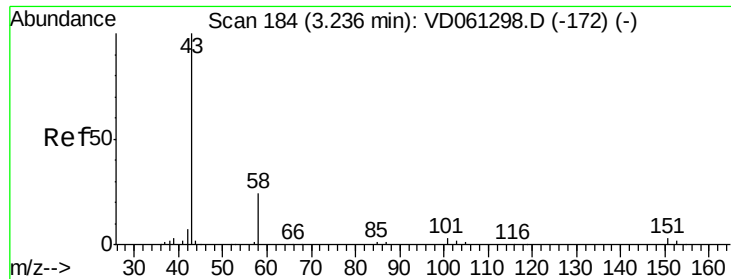
1,1-Dichloroethene
Concen: 1.995 ug/l
RT: 3.14 min Scan# 175
Delta R.T. -0.00 min
Lab File: VD061312.D
Acq: 25 Mar 2019 19:57

Tgt Ion: 96 Resp: 11714
Ion Ratio Lower Upper
96 100
61 136.0 120.2 180.2
98 66.2 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: 35.536 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

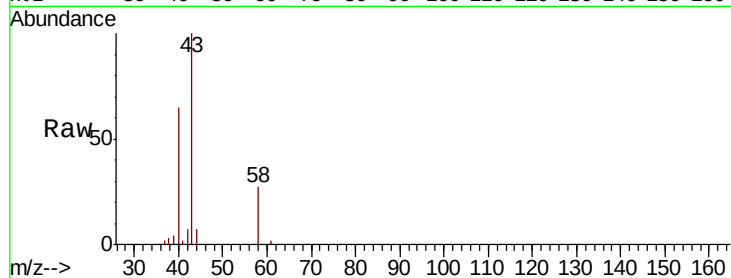
WP022SB430-190319-(23-26)

Tot Ion: 43 Resp: 44604

Ion Ratio Lower Upper

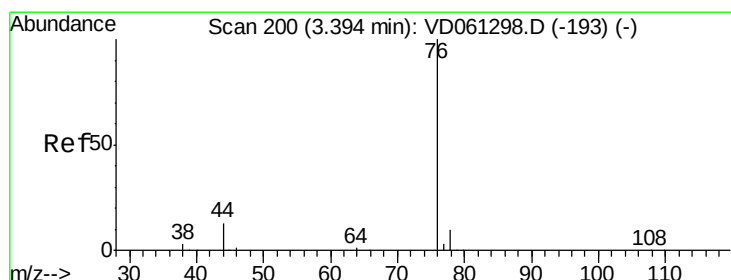
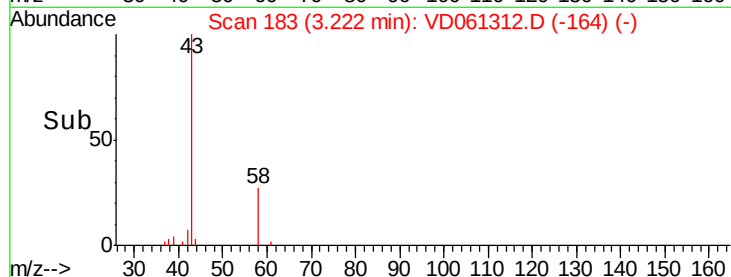
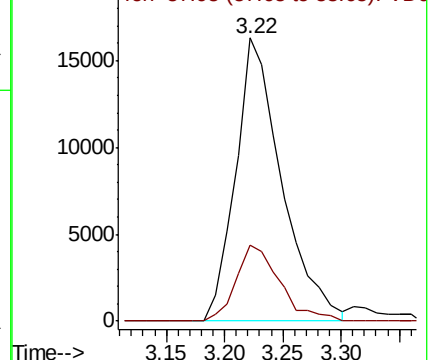
43 100

58 27.0 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: 1.342 ug/l

RT: 3.39 min Scan# 200

Delta R.T. -0.00 min

Lab File: VD061312.D

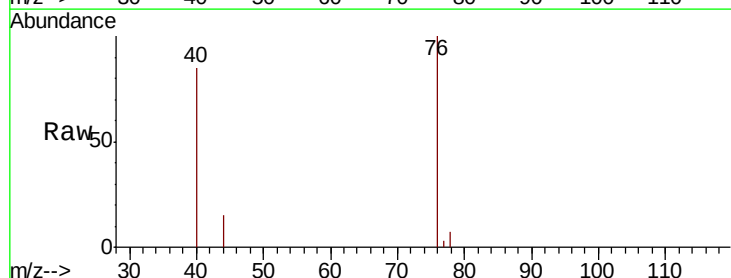
Acq: 25 Mar 2019 19:57

Tgt Ion: 76 Resp: 26175

Ion Ratio Lower Upper

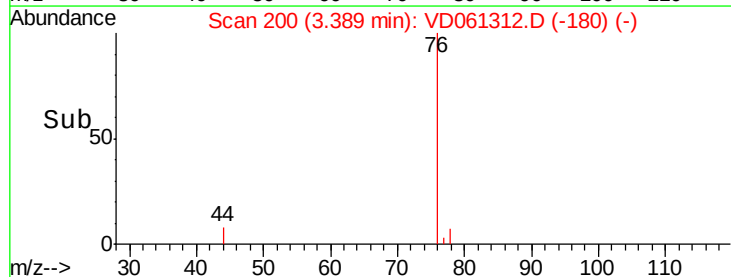
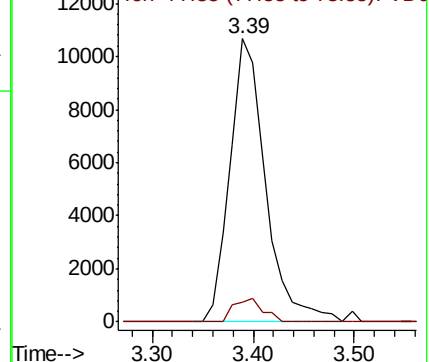
76 100

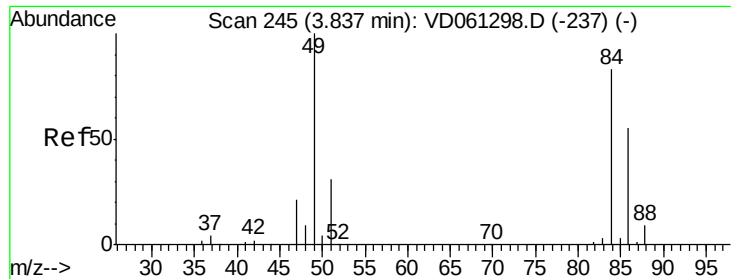
78 6.8 7.8 11.6#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

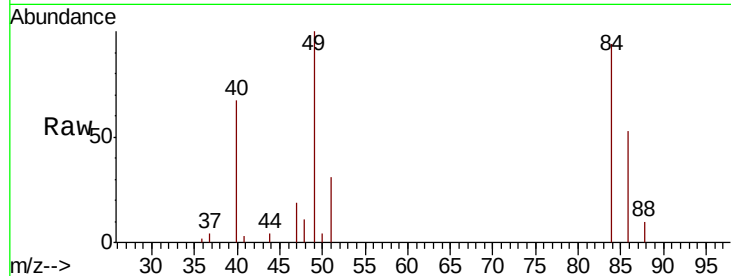




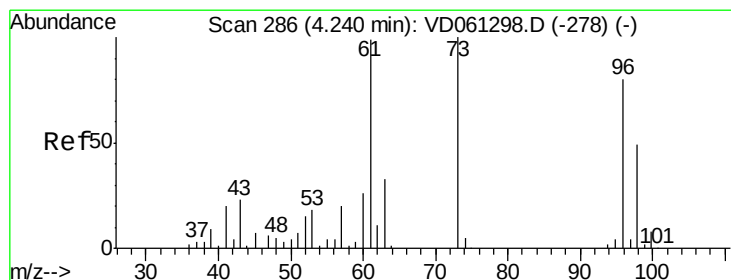
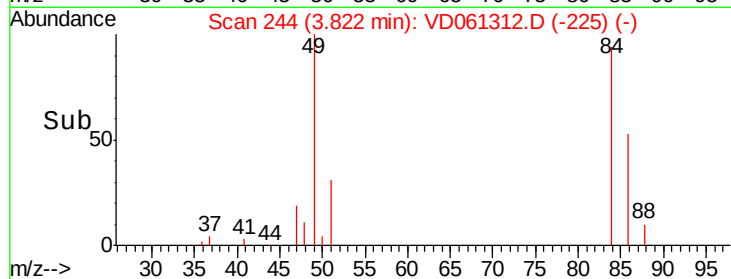
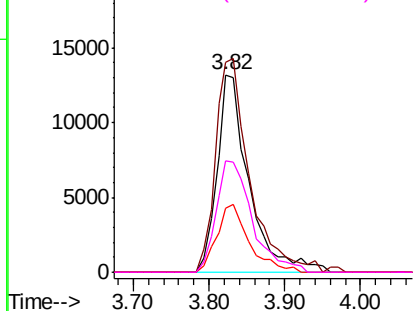
#20
Methylene Chloride
Concen: 5.431 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061312.D
Acq: 25 Mar 2019 19:57

Instrument :
MSVOA_D
ClientSampleId :
WP022SB430-190319-(23-26)

Tot Ion:	84	Resp:	38688
Ion	Ratio	Lower	Upper
84	100		
49	106.7	96.8	145.2
51	32.7	29.9	44.9
86	56.3	53.1	79.7

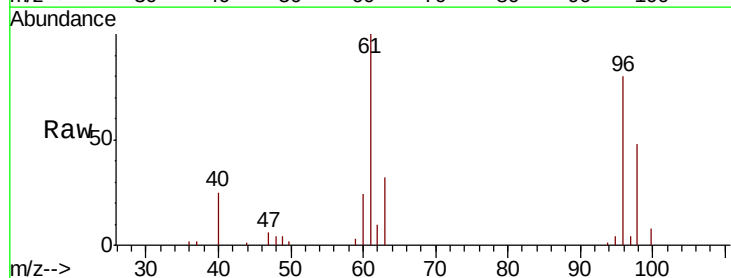


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

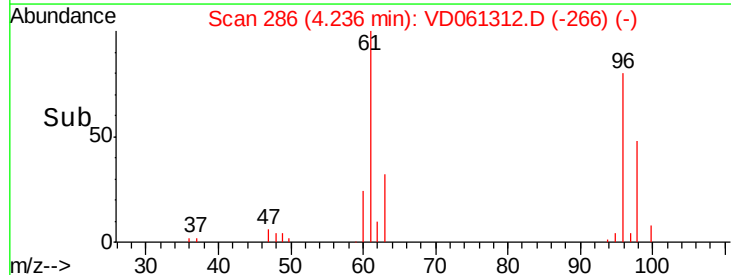
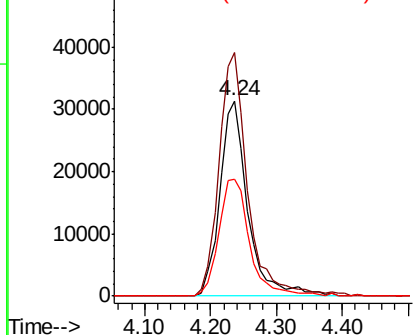


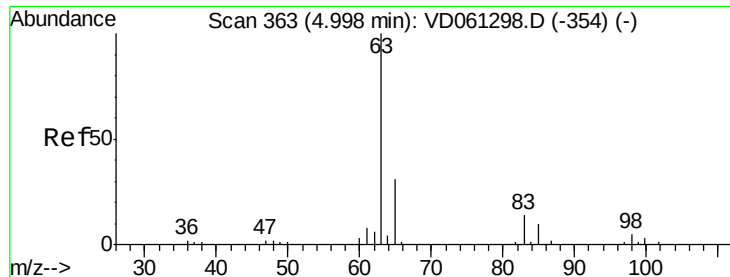
#21
trans-1,2-Dichloroethene
Concen: 14.099 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.00 min
Lab File: VD061312.D
Acq: 25 Mar 2019 19:57

Tgt Ion:	96	Resp:	92616
Ion	Ratio	Lower	Upper
96	100		
61	124.8	99.2	148.8
98	60.3	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: 1.927 ug/l

RT: 5.00 min Scan# 364

Delta R.T. 0.01 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

WP022SB430-190319-(23-26)

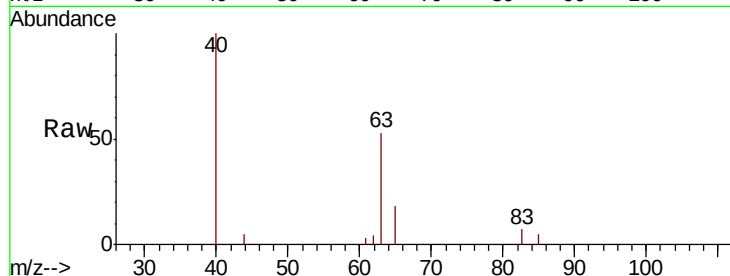
Tot Ion: 63 Resp: 19706

Ion Ratio Lower Upper

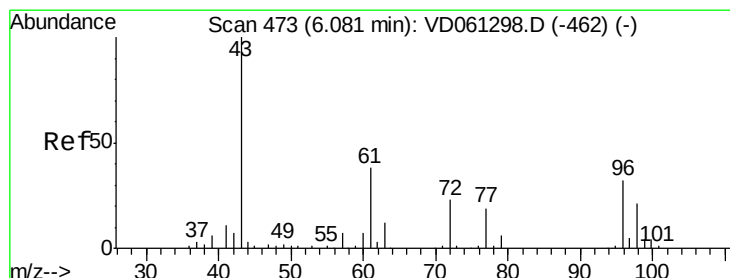
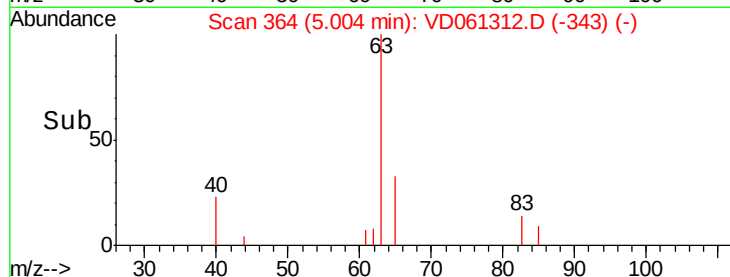
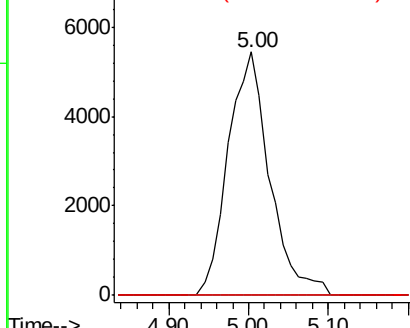
63 100

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: 5.806 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.07 min

Lab File: VD061312.D

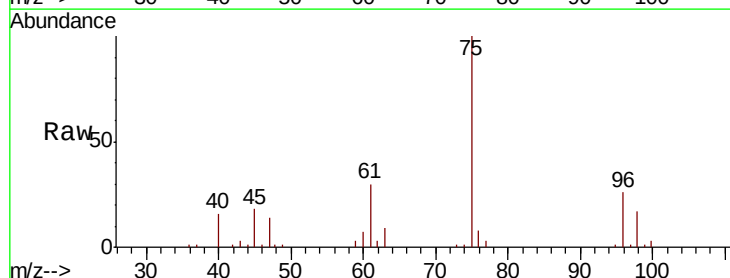
Acq: 25 Mar 2019 19:57

Tgt Ion: 43 Resp: 8429

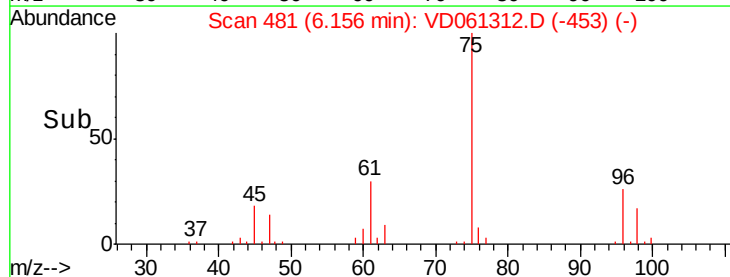
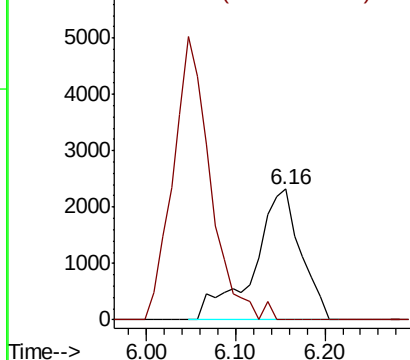
Ion Ratio Lower Upper

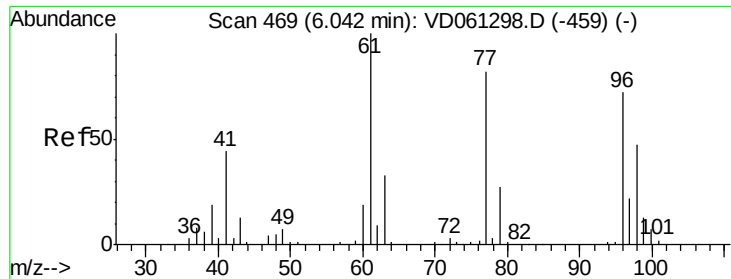
43 100

72 0.0 18.5 27.7#



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





#26

2,2-Dichloropropane

Concen: 1.056 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.10 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

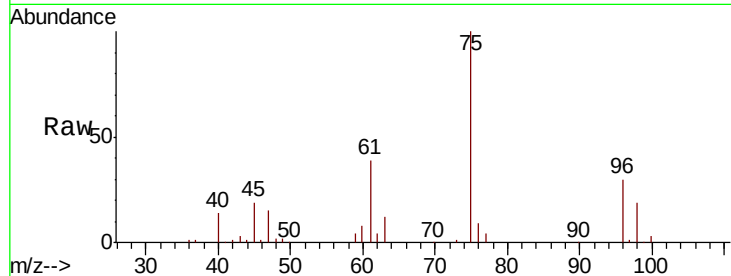
WP022SB430-190319-(23-26)

Tot Ion: 77 Resp: 9168

Ion Ratio Lower Upper

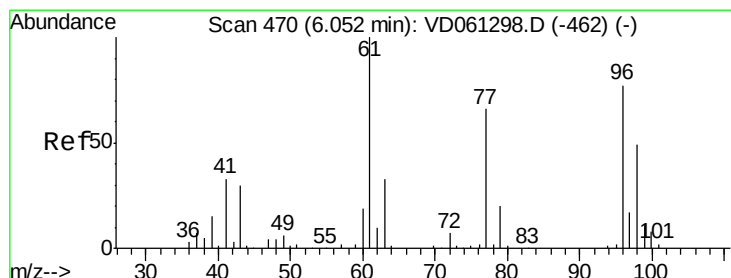
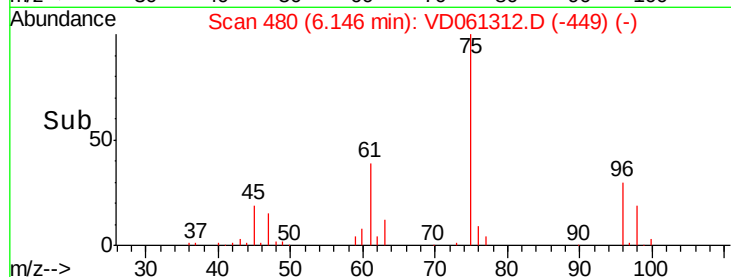
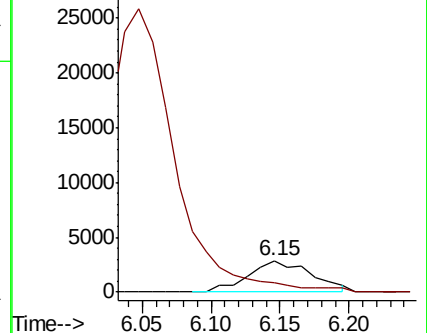
77 100

97 28.5 13.5 40.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#27

cis-1,2-Dichloroethene

Concen: 335.849 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.00 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

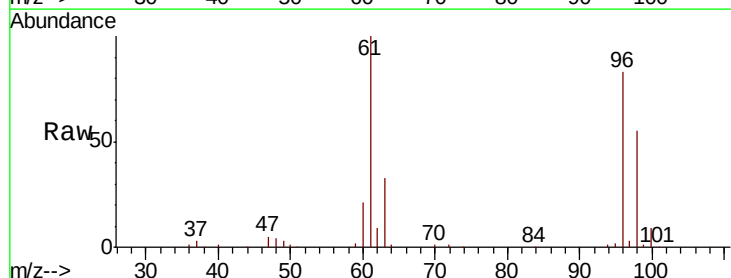
Tgt Ion: 96 Resp: 2374182

Ion Ratio Lower Upper

96 100

61 120.2 0.0 261.0

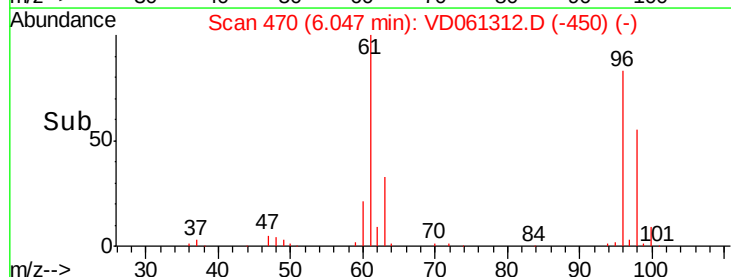
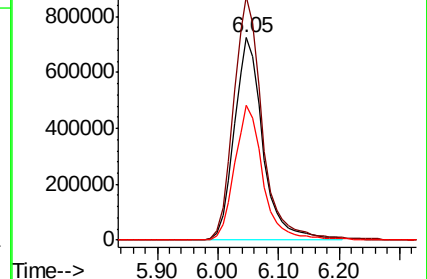
98 66.3 0.0 127.6

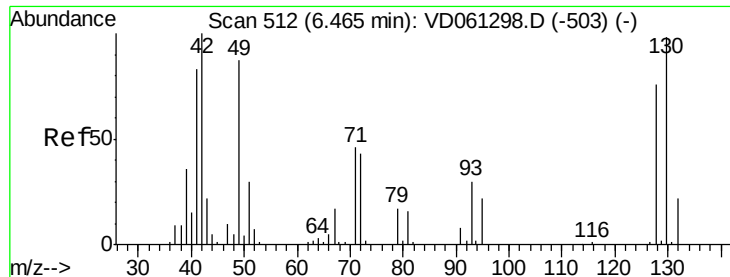


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#29

Tetrahydrofuran

Concen: 2.221 ug/l

RT: 6.14 min Scan# 479

Delta R.T. -0.33 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

WP022SB430-190319-(23-26)

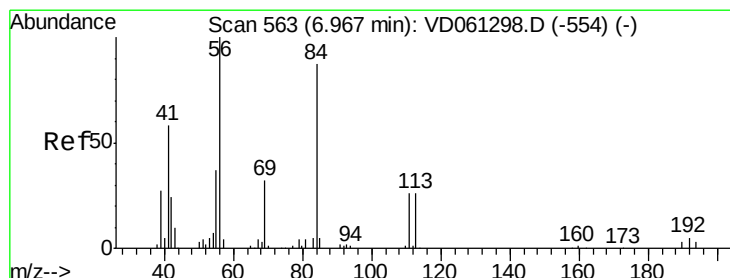
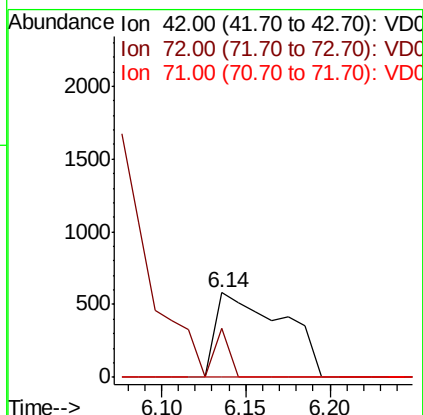
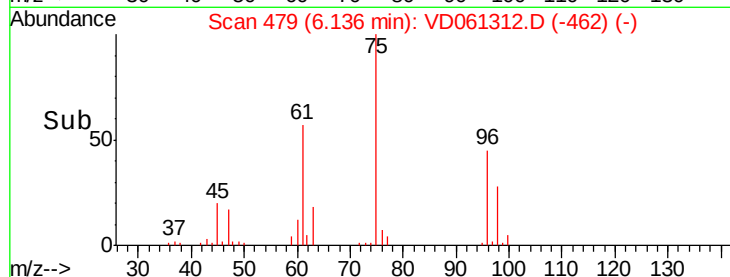
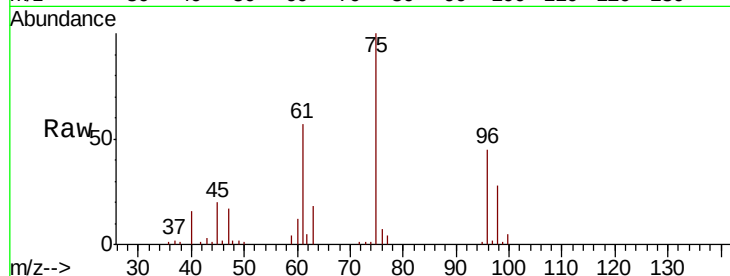
Tot Ion: 42 Resp: 1605

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 36.3 54.5#



#31

Cyclohexane

Concen: 1.256 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.08 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

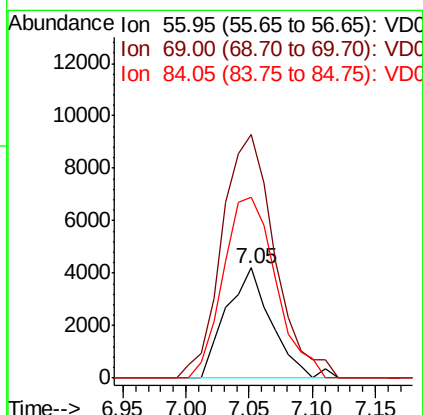
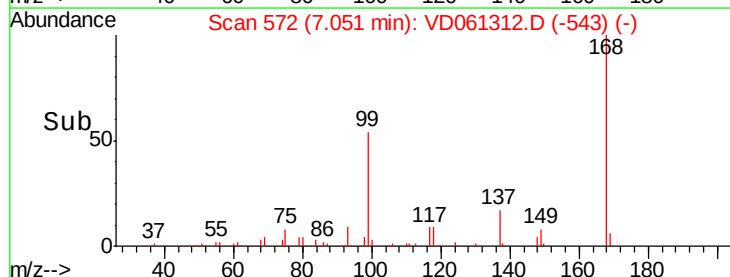
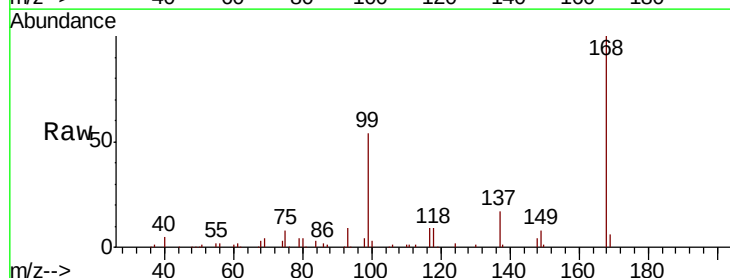
Tgt Ion: 56 Resp: 10421

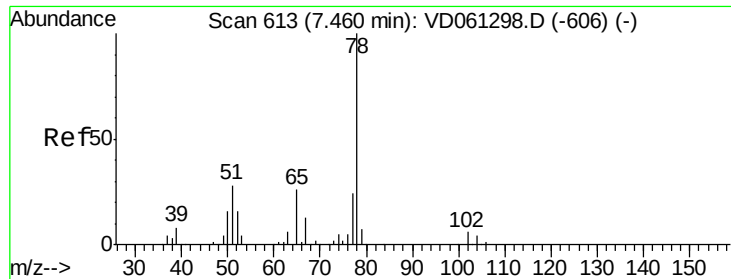
Ion Ratio Lower Upper

56 100

69 221.4 25.5 38.3#

84 164.0 71.4 107.2#

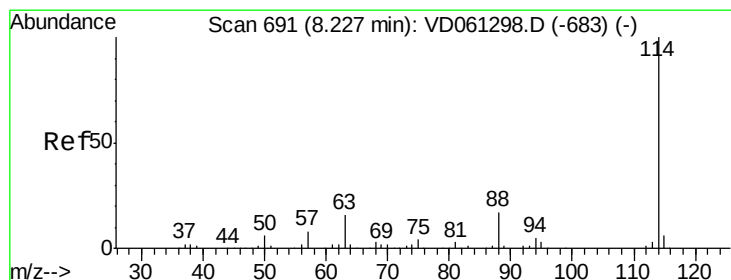
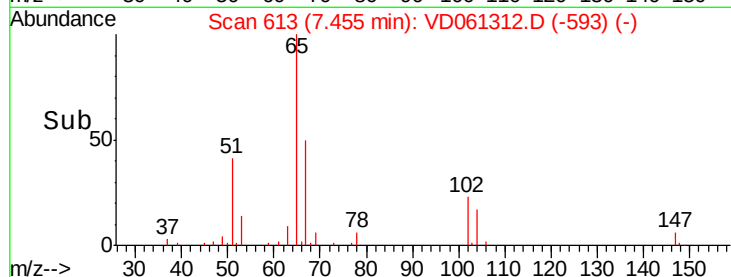
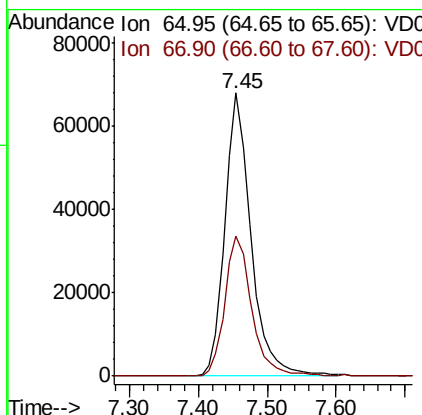
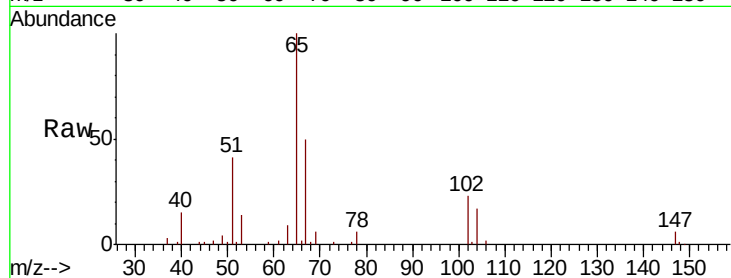




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VD061312.D
 Acq: 25 Mar 2019 19:57

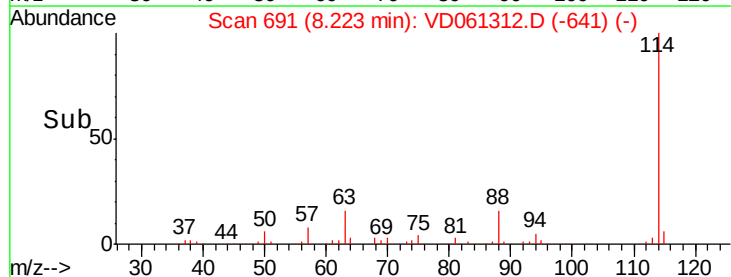
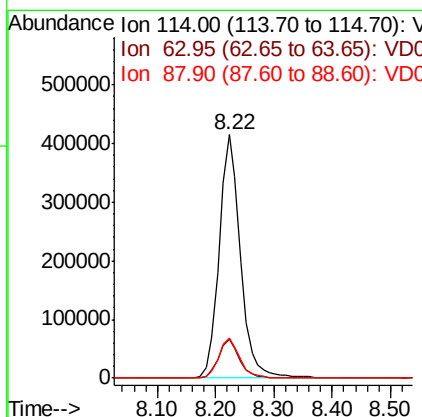
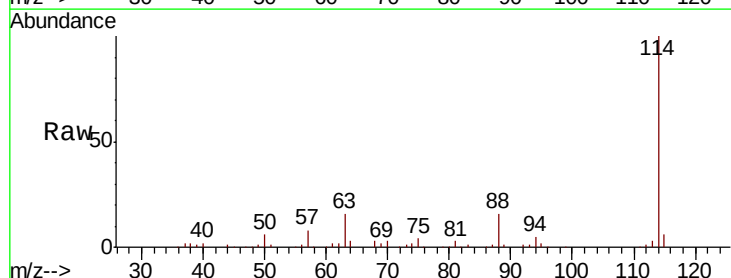
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB430-190319-(23-26)

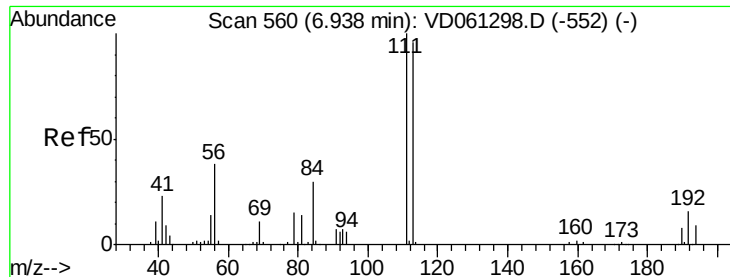
Tot Ion: 65 Resp: 179005
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. -0.00 min
 Lab File: VD061312.D
 Acq: 25 Mar 2019 19:57

Tgt Ion: 114 Resp: 1047691
 Ion Ratio Lower Upper
 114 100
 63 15.8 0.0 31.4
 88 16.5 0.0 33.2

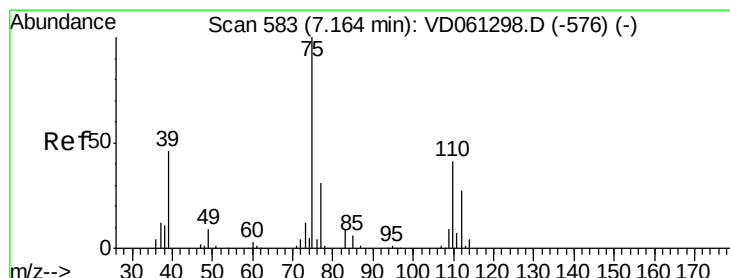
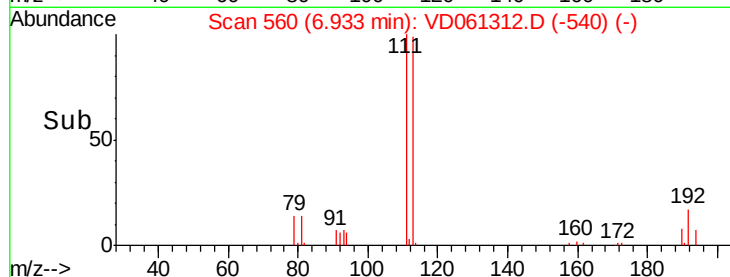
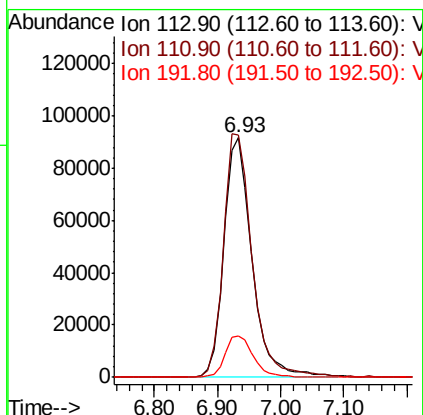
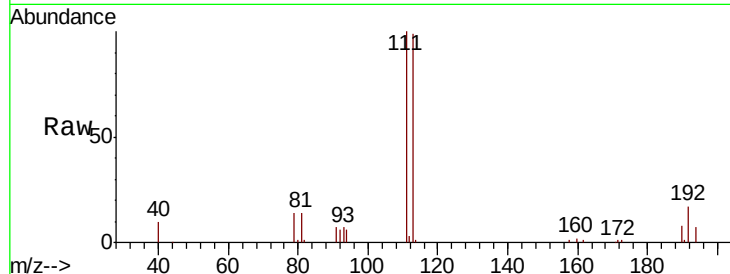




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. -0.00 min
 Lab File: VD061312.D
 Acq: 25 Mar 2019 19:57

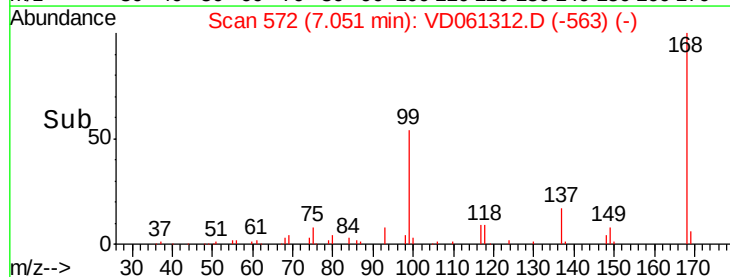
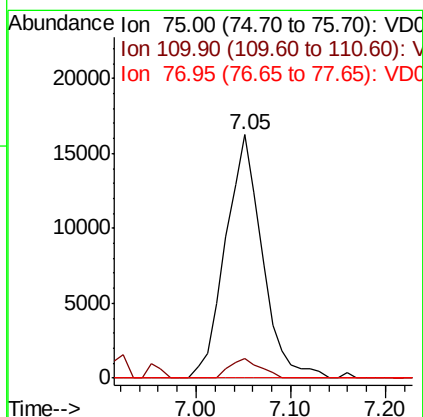
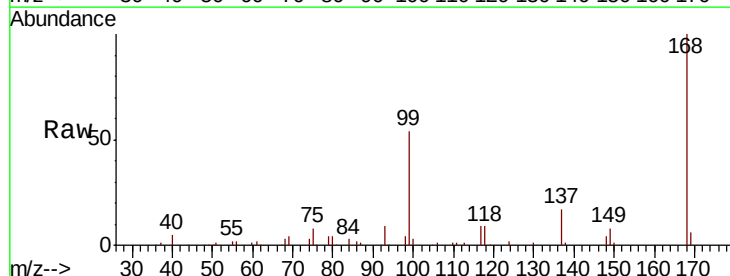
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB430-190319-(23-26)

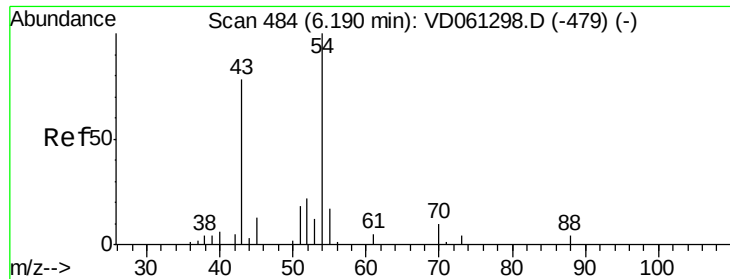
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	83.7	125.5
192	17.4	13.4	20.0



#36
 1,1-Dichloropropene
 Concen: 5.098 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.11 min
 Lab File: VD061312.D
 Acq: 25 Mar 2019 19:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	20.1	60.2#
77	0.0	24.3	36.5#

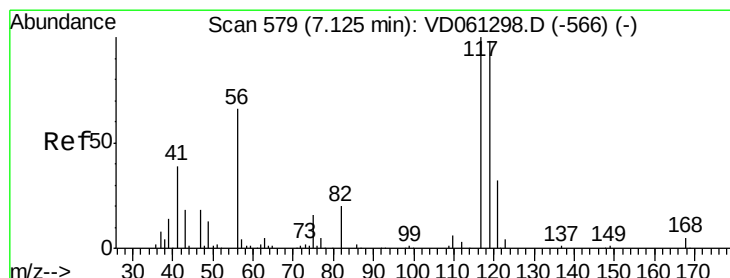
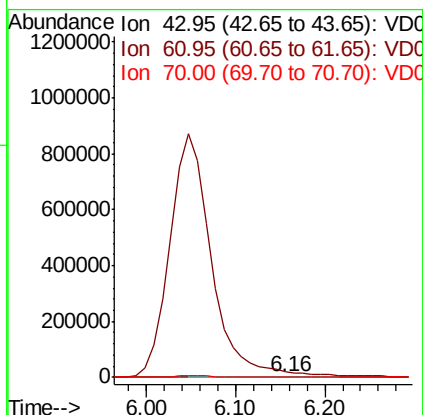
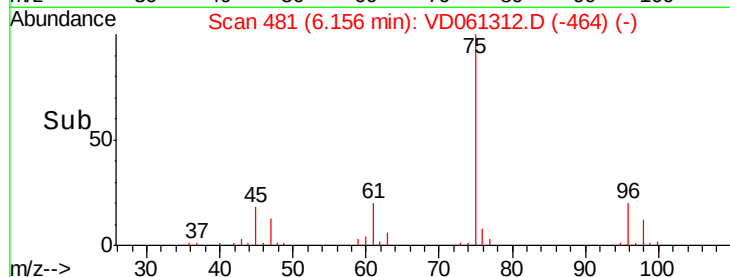
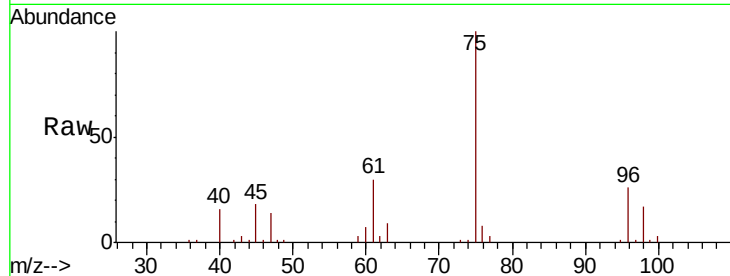




#37
Ethyl Acetate
Concen: 2.354 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.03 min
Lab File: VD061312.D
Acq: 25 Mar 2019 19:57

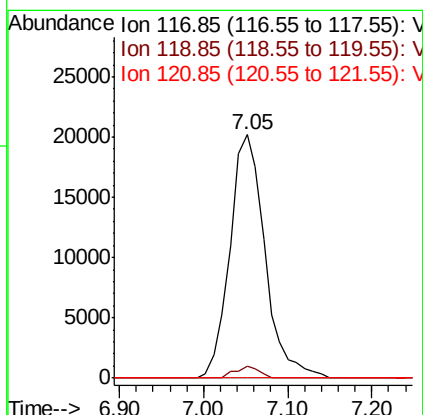
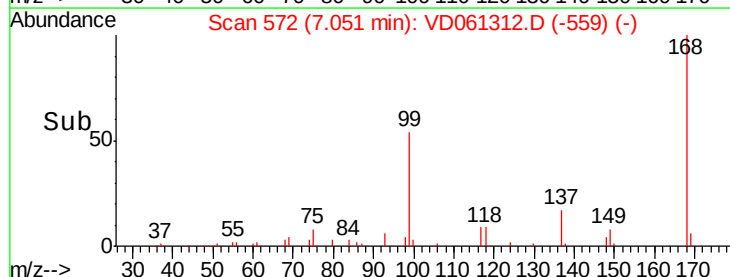
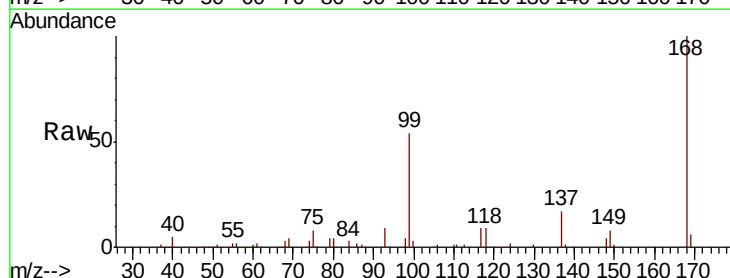
Instrument :
MSVOA_D
ClientSampleId :
WP022SB430-190319-(23-26)

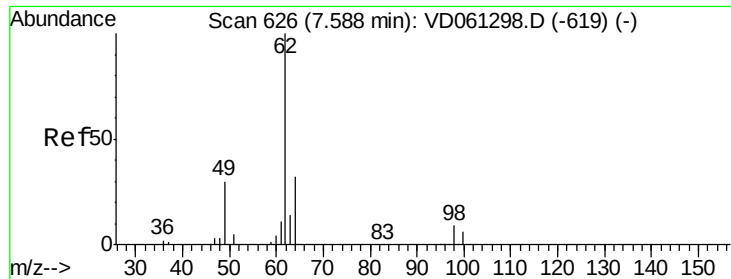
Tot Ion: 43 Resp: 8429
Ion Ratio Lower Upper
43 100
61 909.2 12.6 19.0#
70 0.0 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 5.966 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.07 min
Lab File: VD061312.D
Acq: 25 Mar 2019 19:57

Tgt Ion: 117 Resp: 58445
Ion Ratio Lower Upper
117 100
119 4.7 78.4 117.6#
121 0.0 25.1 37.7#





#42

1,2-Dichloroethane

Concen: 1.316 ug/l

RT: 7.58 min Scan# 626

Delta R.T. -0.00 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

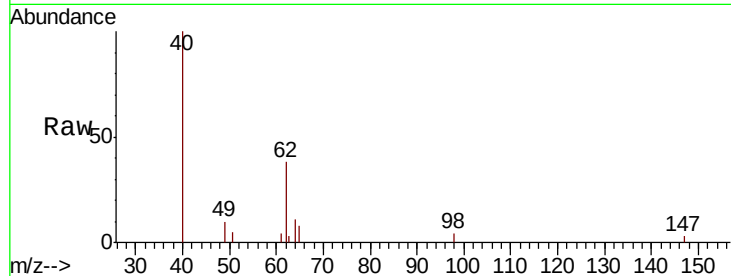
WP022SB430-190319-(23-26)

Tot Ion: 62 Resp: 8731

Ion Ratio Lower Upper

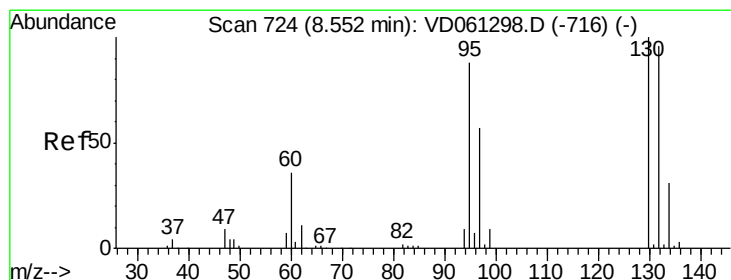
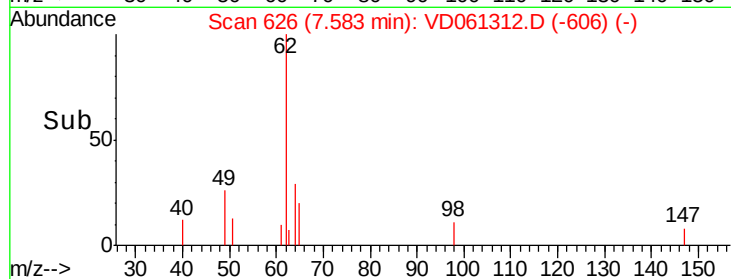
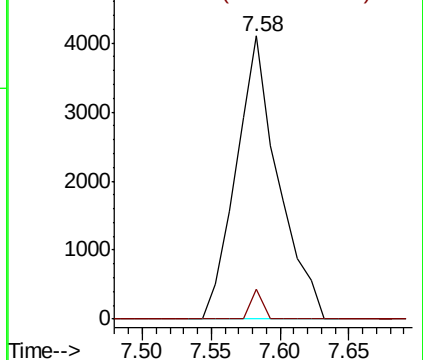
62 100

98 10.7 0.0 18.6



Abundance Ion 61.95 (61.65 to 62.65): V

Ion 97.85 (97.55 to 98.55): V



#44

Trichloroethene

Concen: 2.903 ug/l

RT: 8.55 min Scan# 724

Delta R.T. -0.00 min

Lab File: VD061312.D

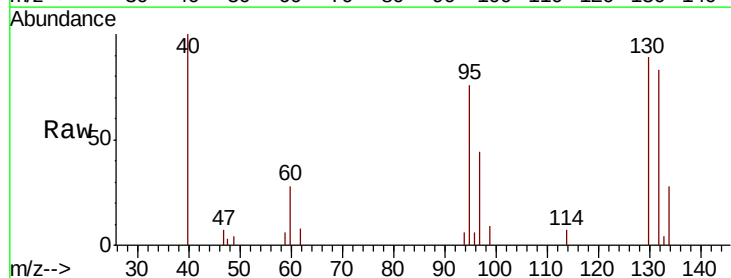
Acq: 25 Mar 2019 19:57

Tgt Ion:130 Resp: 22351

Ion Ratio Lower Upper

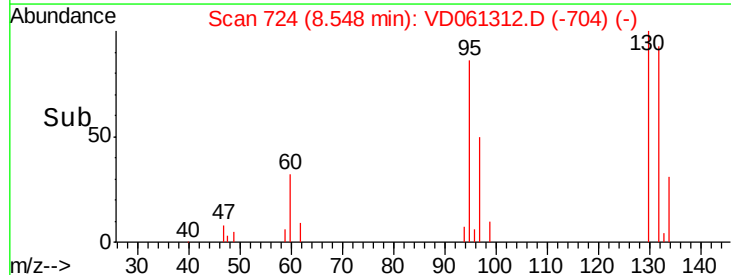
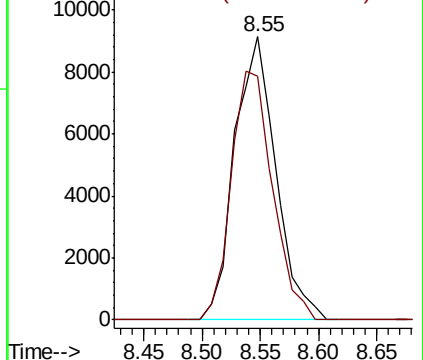
130 100

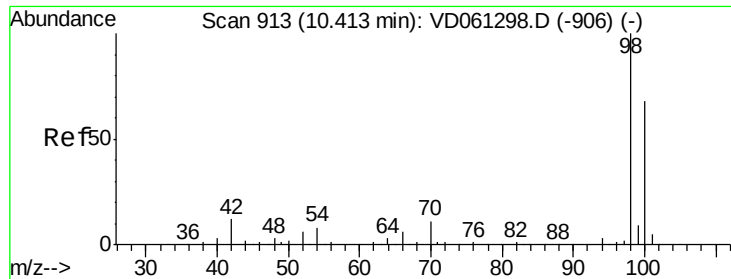
95 86.0 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

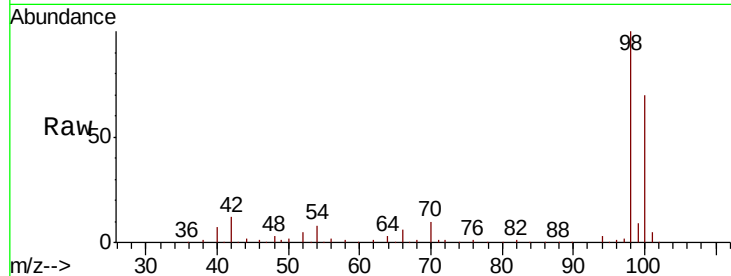
WP022SB430-190319-(23-26)

Tot Ion: 98 Resp: 643420

Ion Ratio Lower Upper

98 100

100 69.9 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061298.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD061298.D (-906) (-)

10.41

250000

200000

150000

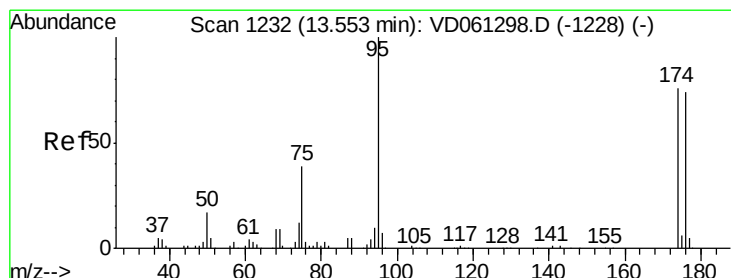
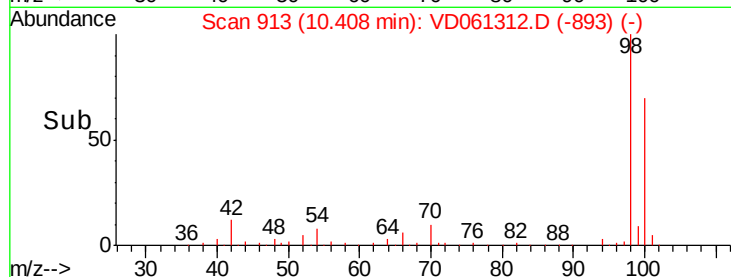
100000

50000

0

Time-->

10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

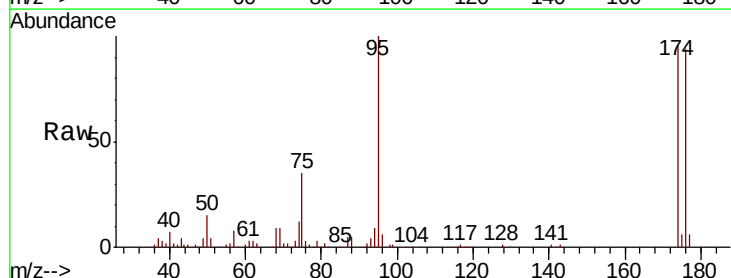
Tgt Ion: 95 Resp: 198374

Ion Ratio Lower Upper

95 100

174 95.9 0.0 151.8

176 93.8 0.0 148.0



Abundance Ion 95.00 (94.70 to 95.70): VD061298.D (-1228) (-)

Ion 173.90 (173.60 to 174.60): VD061298.D (-1228) (-)

Ion 175.90 (175.60 to 176.60): VD061298.D (-1228) (-)

150000

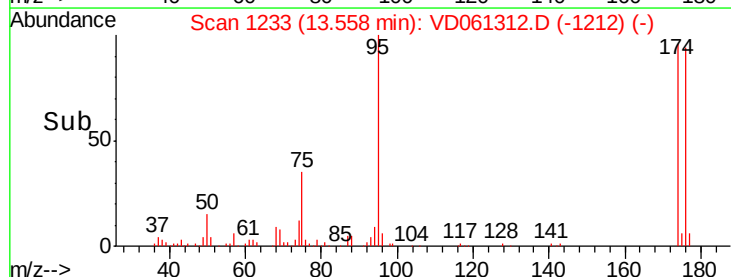
100000

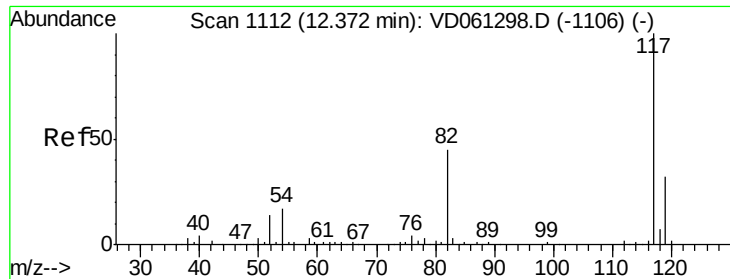
50000

0

Time-->

13.50 13.56 13.60





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

WP022SB430-190319-(23-26)

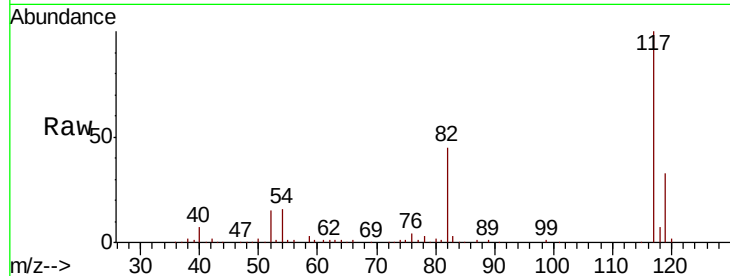
Tot Ion:117 Resp: 726933

Ion Ratio Lower Upper

117 100

82 45.2 35.7 53.5

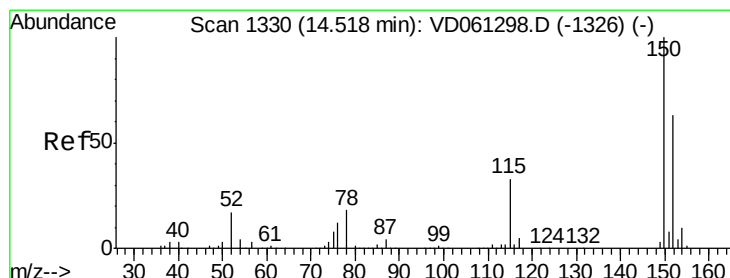
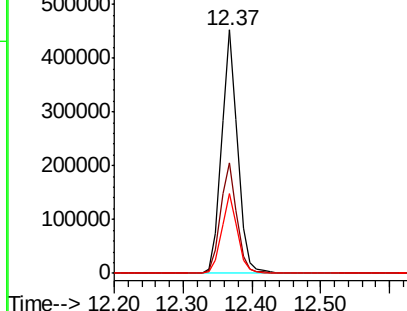
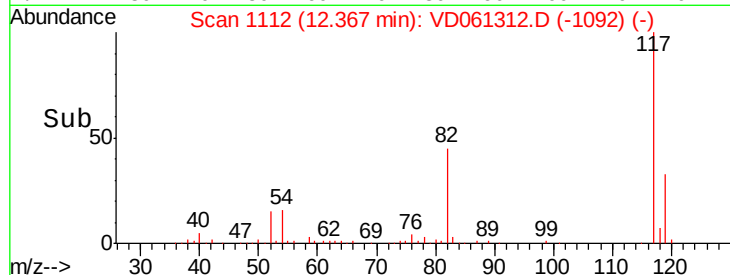
119 32.6 25.9 38.9



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

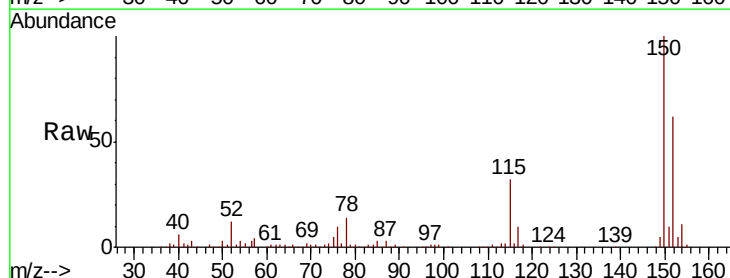
Tgt Ion:152 Resp: 233619

Ion Ratio Lower Upper

152 100

115 52.1 29.2 87.6

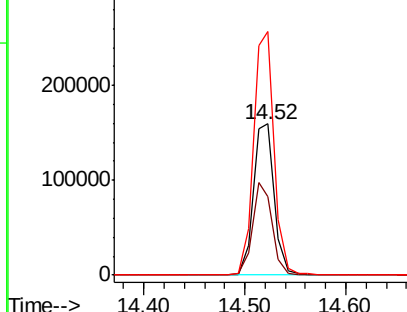
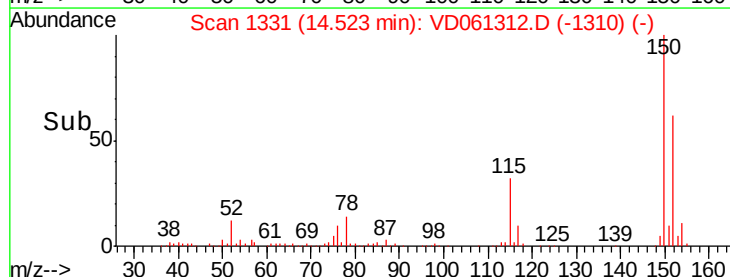
150 161.2 0.0 319.6

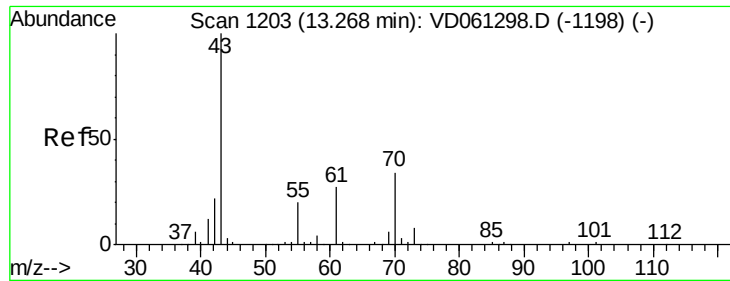


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.240 ug/l

RT: 13.29 min Scan# 1206

Delta R.T. 0.02 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

Instrument :

MSVOA_D

ClientSampleId :

WP022SB430-190319-(23-26)

Tot Ion: 43 Resp: 4929

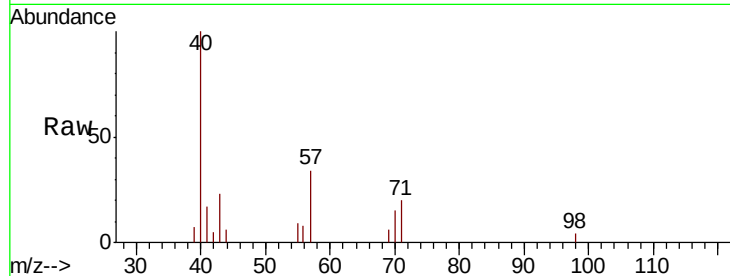
Ion Ratio Lower Upper

43 100

70 63.9 27.5 41.3#

55 41.0 15.7 23.5#

61 0.0 21.8 32.6#

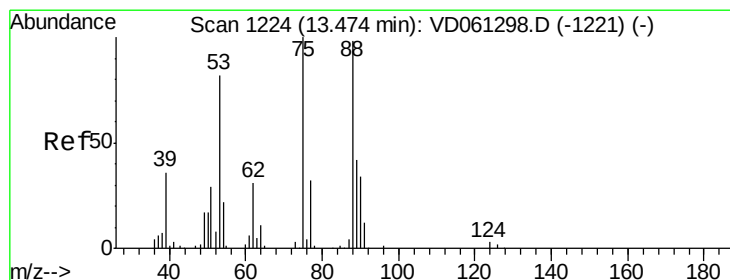
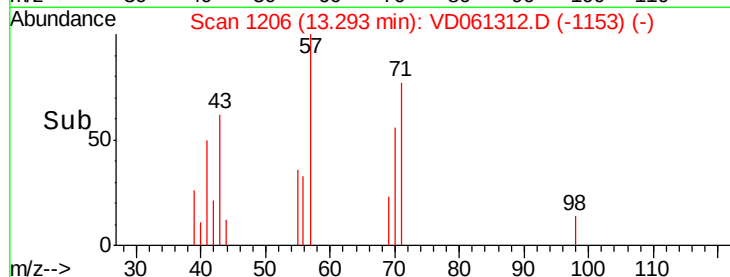
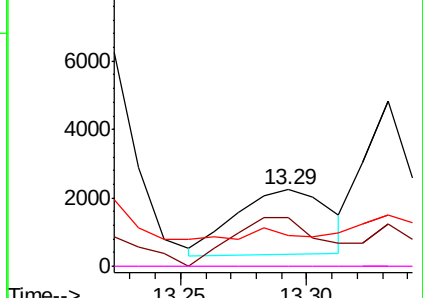


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#81

trans-1,4-Dichloro-2-butene

Concen: 79.194 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD061312.D

Acq: 25 Mar 2019 19:57

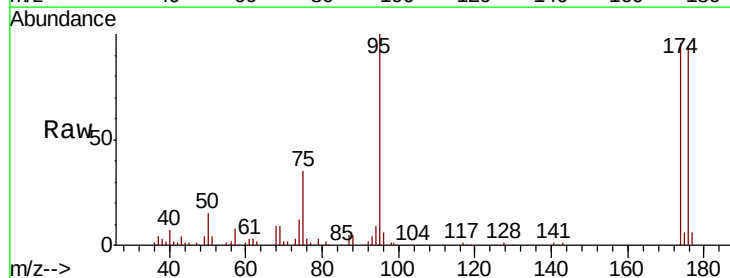
Tgt Ion: 75 Resp: 72612

Ion Ratio Lower Upper

75 100

53 0.7 65.3 97.9#

89 0.0 33.8 50.6#



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

