

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061322.D
 Acq On : 26 Mar 2019 2:54
 Operator : VA/AP
 Sample : K2045-06RE
 Misc : 6.15g/5ml/MSVOA D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(25-27)RE

Quant Time: Mar 26 04:32:30 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	515978	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	815853	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	603719	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	181282	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	189497	42.57	ug/l	-0.01
Spiked Amount			Recovery	=	85.14%	
35) Dibromofluoromethane	6.93	113	289515	46.37	ug/l	-0.01
Spiked Amount			Recovery	=	92.74%	
50) Toluene-d8	10.40	98	570202	37.67	ug/l	-0.01
Spiked Amount			Recovery	=	75.34%	
62) 4-Bromofluorobenzene	13.55	95	150807	25.54	ug/l	0.00
Spiked Amount			Recovery	=	51.08%	

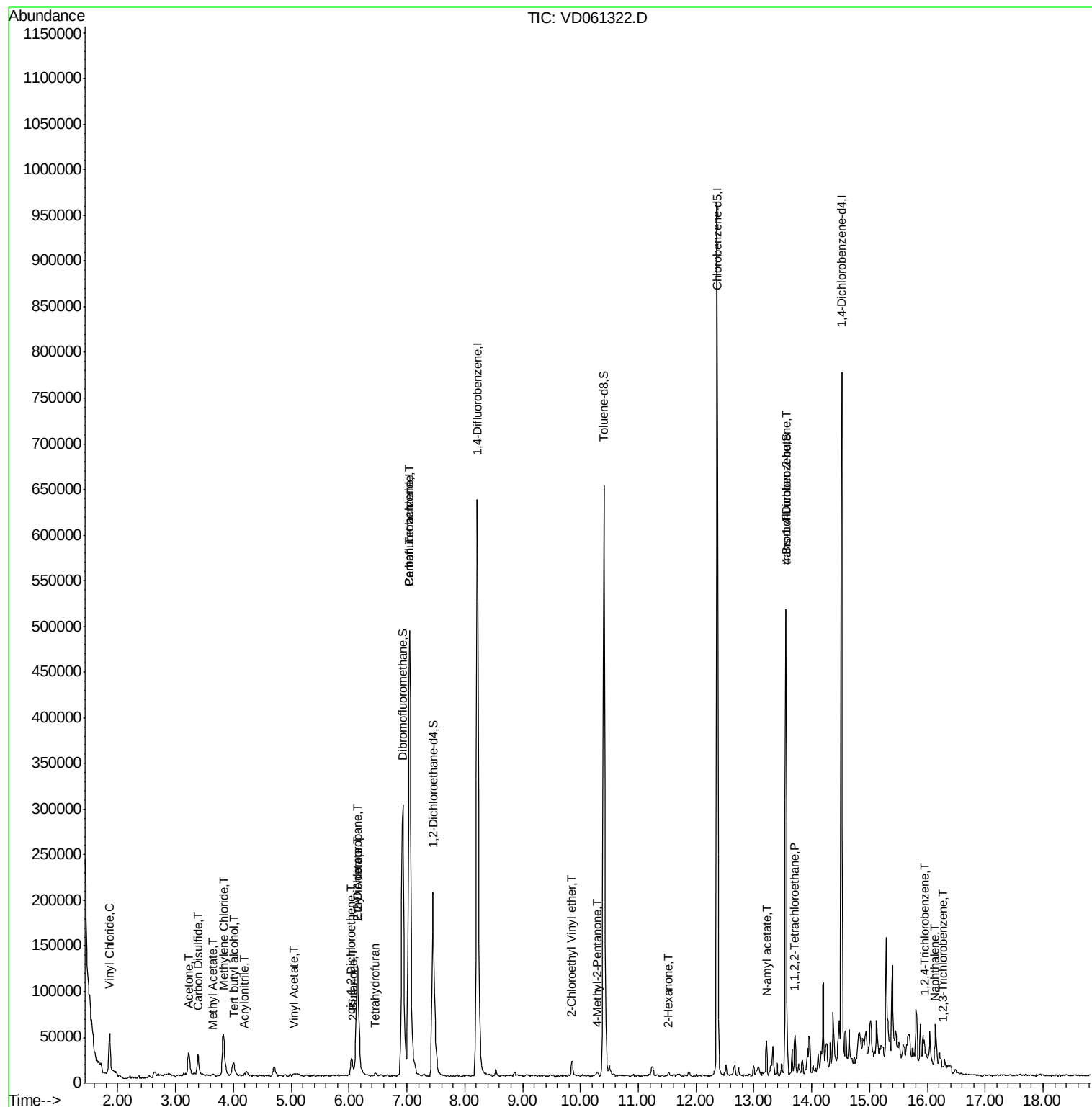
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.86	62	47542	12.356	ug/l	96
11) Tert butyl alcohol	4.00	59	16617	70.121	ug/l #	77
15) Acrylonitrile	4.19	53	1331	1.597	ug/l #	91
16) Acetone	3.23	43	54732	51.400	ug/l	99
17) Carbon Disulfide	3.39	76	47187	2.852	ug/l #	93
18) Methyl Acetate	3.64	43	2927	1.454	ug/l #	55
20) Methylene Chloride	3.83	84	33261	5.504	ug/l	93
23) Vinyl Acetate	5.05	43	8168	1.027	ug/l #	78
25) 2-Butanone	6.07	43	8046	6.533	ug/l	95
26) 2,2-Dichloropropane	6.14	77	9915	1.346	ug/l #	48
27) cis-1,2-Dichloroethene	6.04	96	14093	2.350	ug/l	91
29) Tetrahydrofuran	6.46	42	1908	3.112	ug/l #	56
37) Ethyl Acetate	6.15	43	7541	2.705	ug/l #	1
38) Carbon Tetrachloride	7.04	117	49290	6.461	ug/l #	15
51) 4-Methyl-2-Pentanone	10.29	43	5225	2.183	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.85	63	8452	4.521	ug/l	100
59) 2-Hexanone	11.53	43	3570	2.054	ug/l	97
74) N-amyl acetate	13.22	43	6933	2.247	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	13.70	83	2689	1.176	ug/l #	95
81) trans-1,4-Dichloro-2-buten	13.55	75	55923	78.601	ug/l #	17
93) 1,2,4-Trichlorobenzene	15.95	180	2763	1.284	ug/l	93
95) Naphthalene	16.12	128	7364	2.346	ug/l #	88
96) 1,2,3-Trichlorobenzene	16.26	180	1727	1.719	ug/l #	80

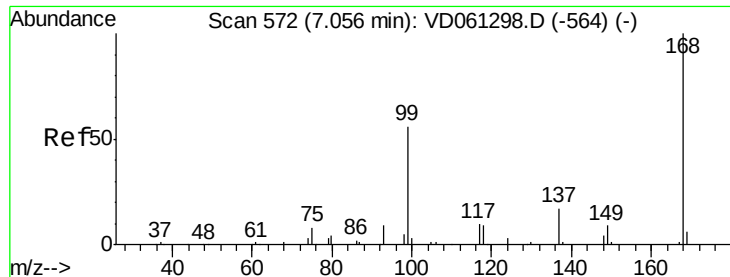
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

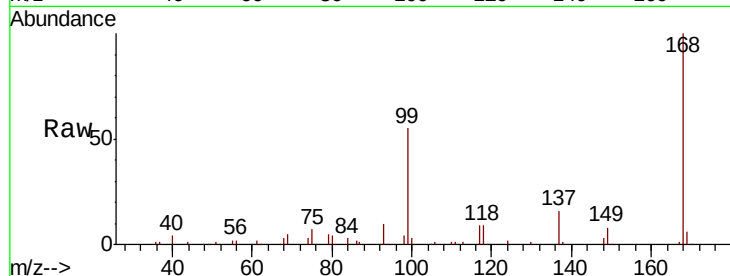
WP022SB439-190318-(25-27)RE

Tot Ion:168 Resp: 515978

Ion Ratio Lower Upper

168 100

99 55.0 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

150000

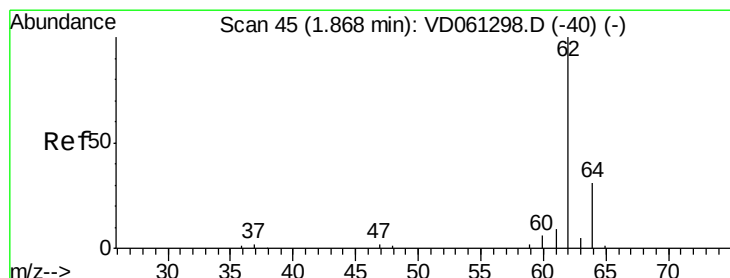
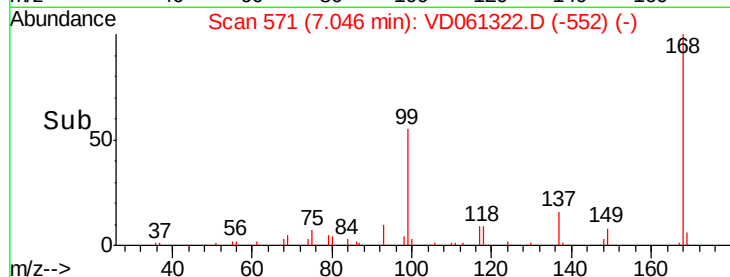
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#4

Vinyl Chloride

Concen: 12.356 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061322.D

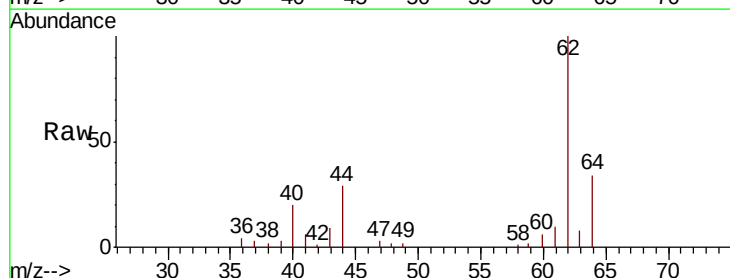
Acq: 26 Mar 2019 2:54

Tgt Ion: 62 Resp: 47542

Ion Ratio Lower Upper

62 100

64 33.6 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

25000

20000

15000

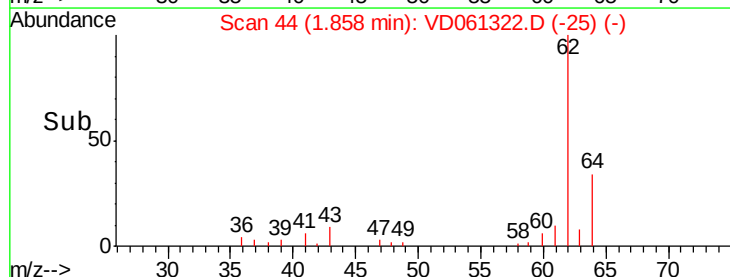
10000

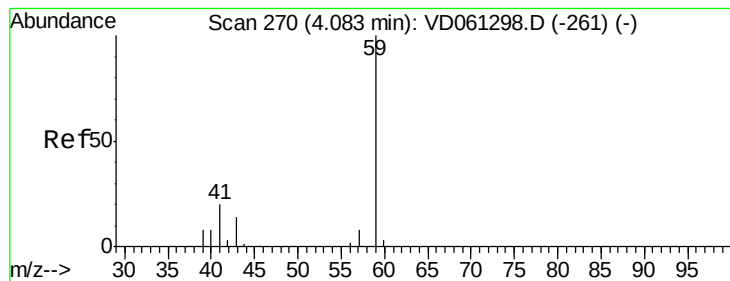
5000

0

1.80 1.90 2.00

Time-->





#11

Tert butyl alcohol

Concen: 70.121 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.08 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

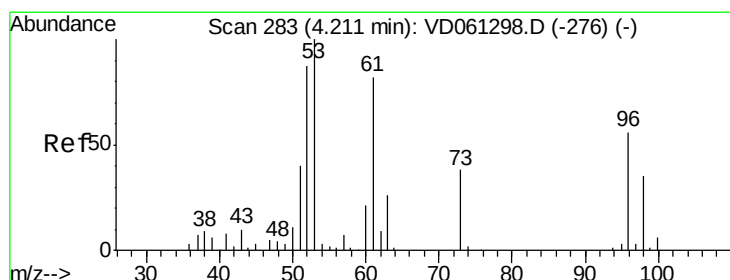
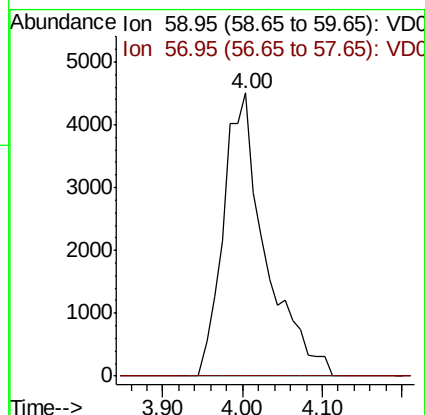
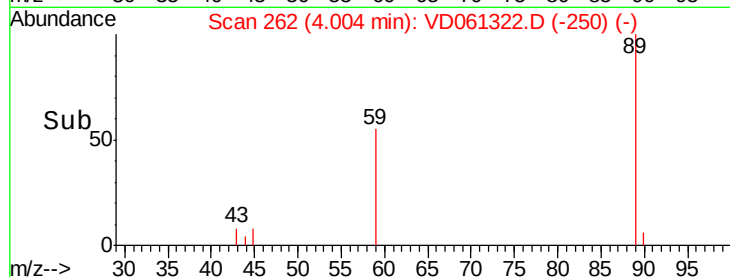
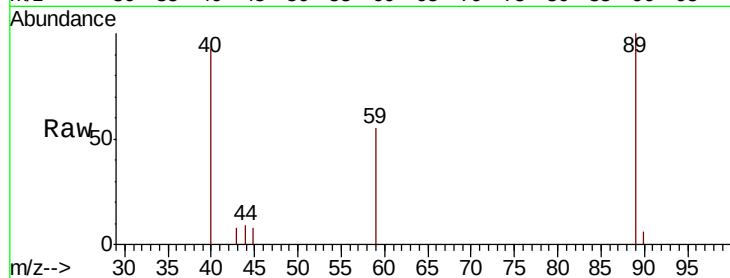
WP022SB439-190318-(25-27)RE

Tot Ion: 59 Resp: 16617

Ion Ratio Lower Upper

59 100

57 0.0 6.6 9.8#



#15

Acrylonitrile

Concen: 1.597 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.02 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

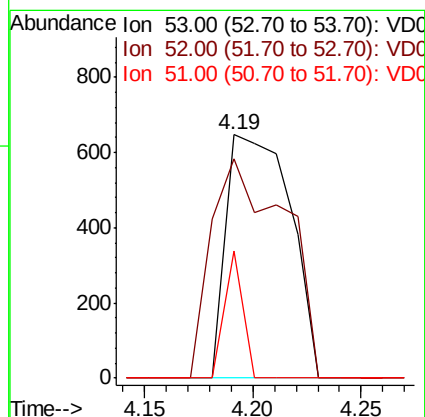
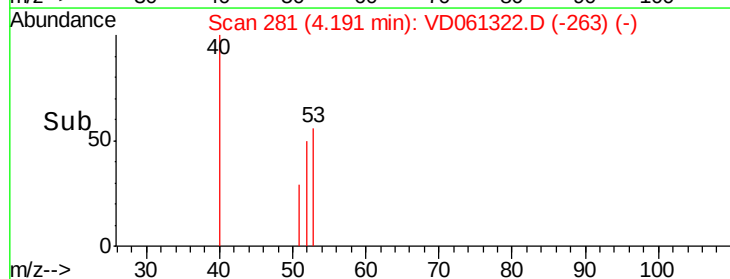
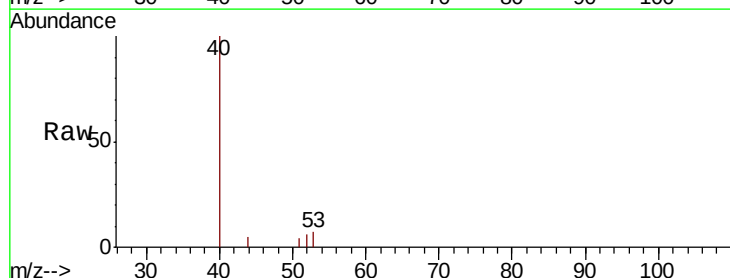
Tgt Ion: 53 Resp: 1331

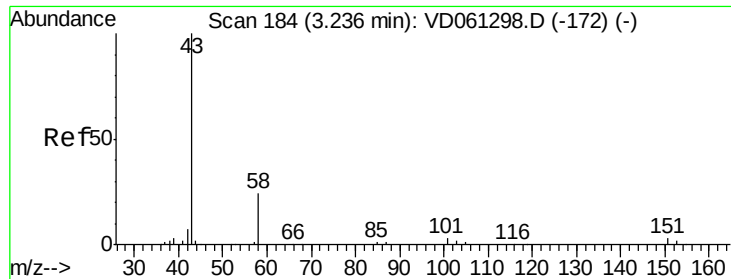
Ion Ratio Lower Upper

53 100

52 90.3 69.4 104.2

51 52.2 31.7 47.5#





#16

Acetone

Concen: 51.400 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

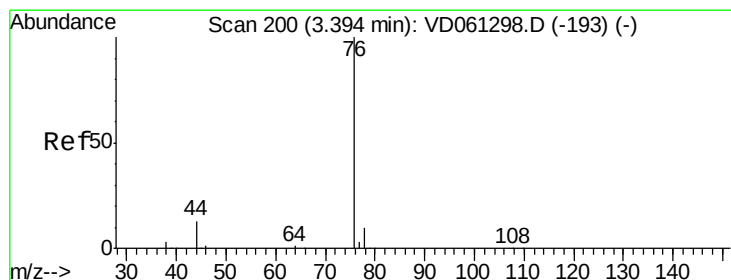
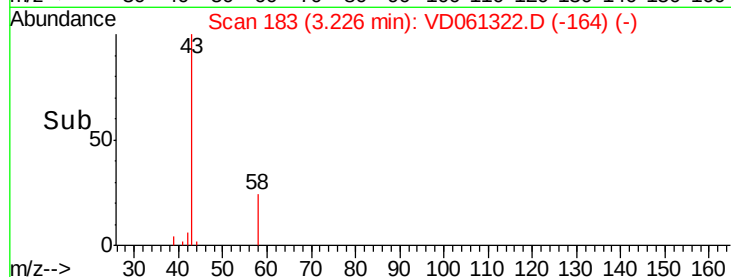
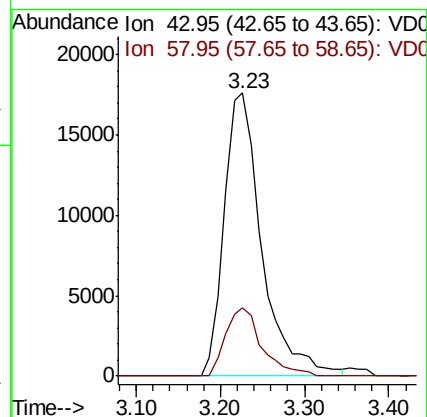
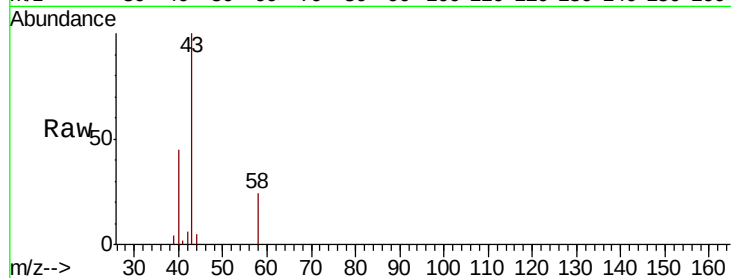
WP022SB439-190318-(25-27)RE

Tot Ion: 43 Resp: 54732

Ion Ratio Lower Upper

43 100

58 23.9 19.4 29.0



#17

Carbon Disulfide

Concen: 2.852 ug/l

RT: 3.39 min Scan# 200

Delta R.T. -0.00 min

Lab File: VD061322.D

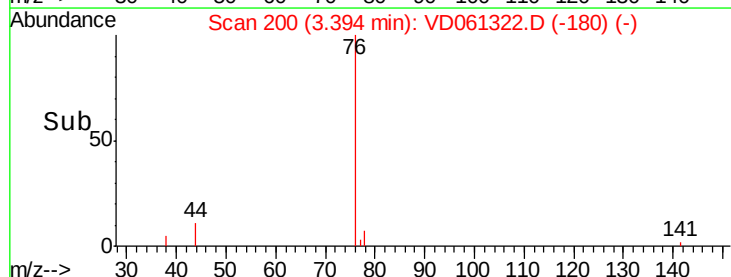
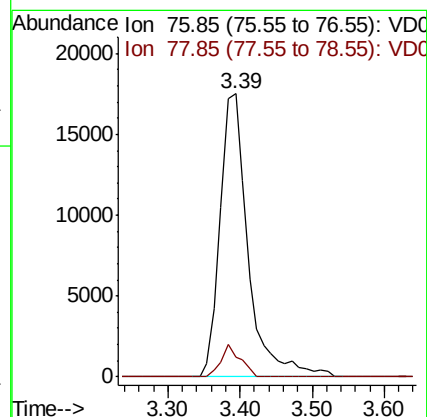
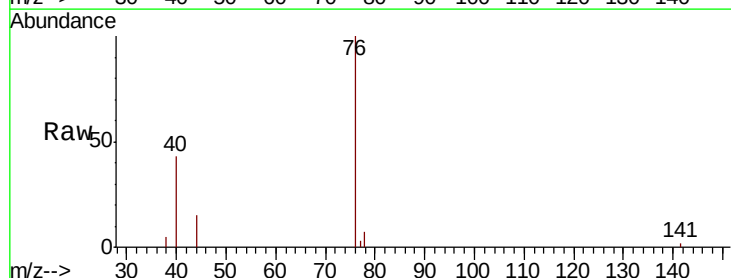
Acq: 26 Mar 2019 2:54

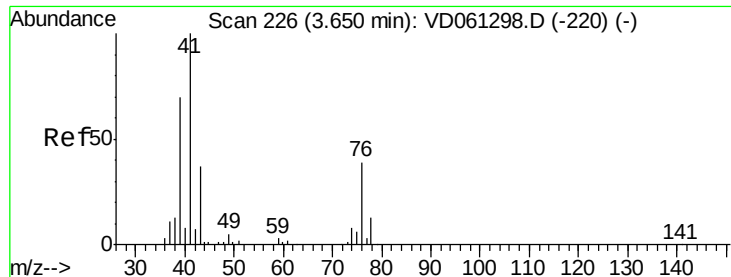
Tgt Ion: 76 Resp: 47187

Ion Ratio Lower Upper

76 100

78 7.0 7.8 11.6#

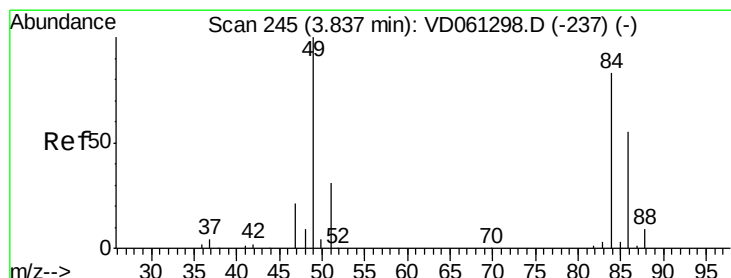
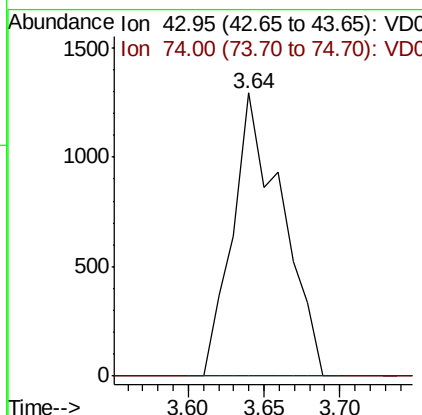
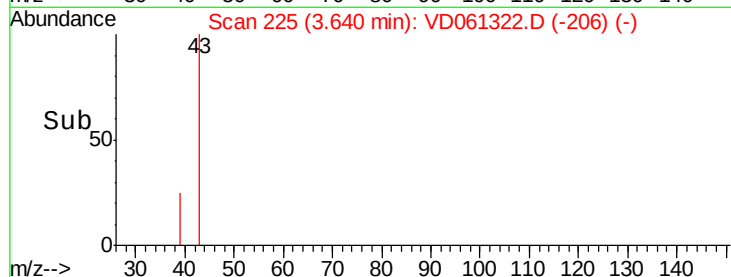
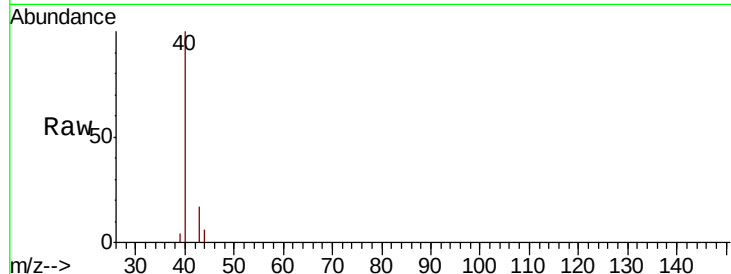




#18
Methyl Acetate
Concen: 1.454 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD061322.D
Acq: 26 Mar 2019 2:54

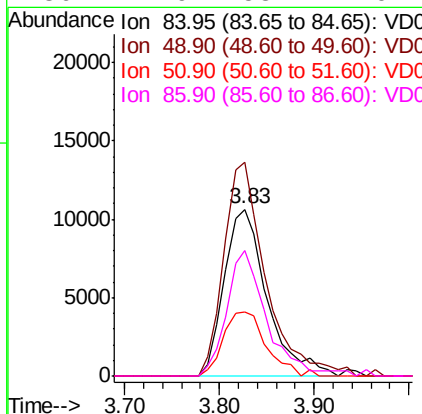
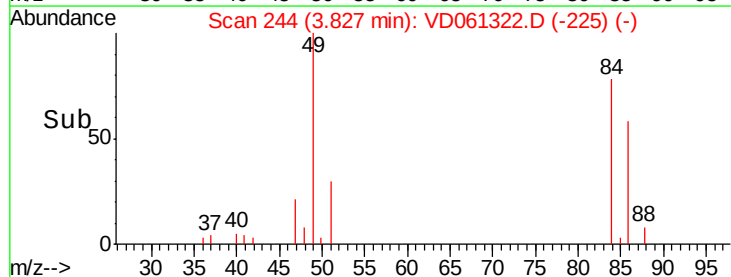
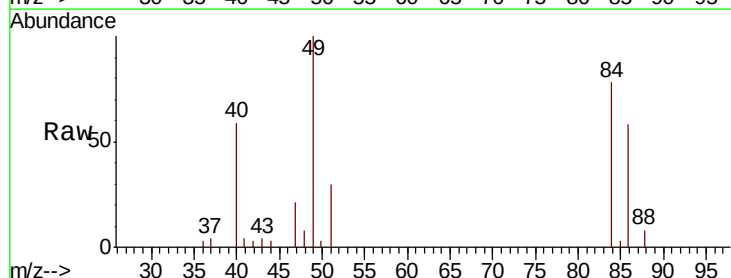
Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(25-27)RE

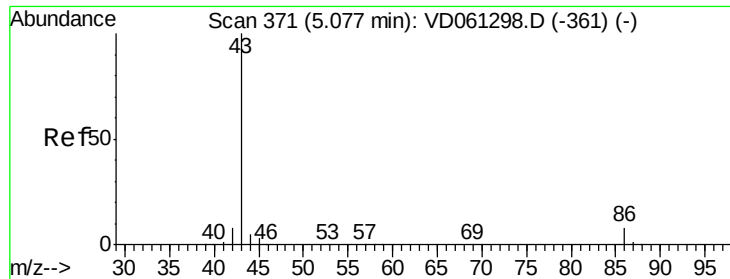
Tot Ion: 43 Resp: 2927
Ion Ratio Lower Upper
43 100
74 0.0 16.6 25.0#



#20
Methylene Chloride
Concen: 5.504 ug/l
RT: 3.83 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061322.D
Acq: 26 Mar 2019 2:54

Tgt Ion: 84 Resp: 33261
Ion Ratio Lower Upper
84 100
49 128.2 96.8 145.2
51 38.5 29.9 44.9
86 74.9 53.1 79.7





#23

Vinyl Acetate

Concen: 1.027 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.03 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

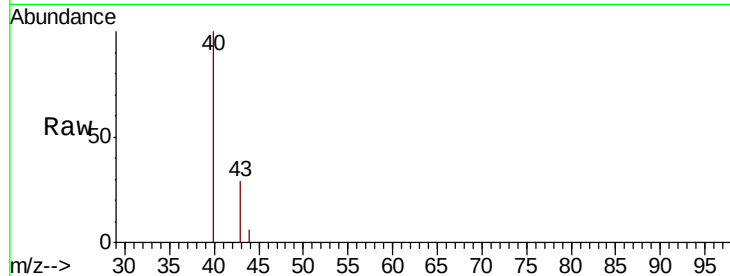
WP022SB439-190318-(25-27)RE

Tot Ion: 43 Resp: 8168

Ion Ratio Lower Upper

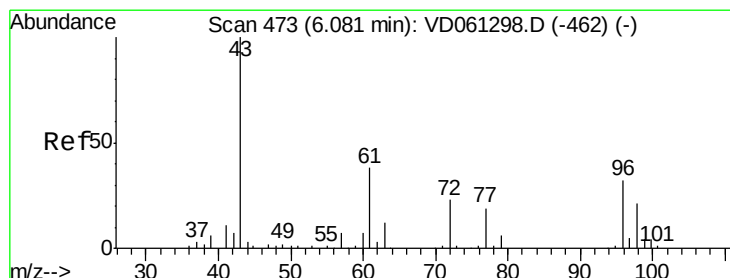
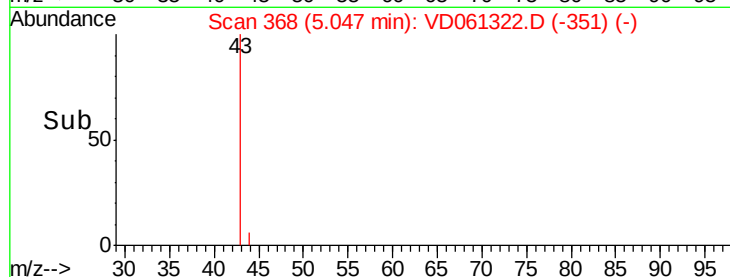
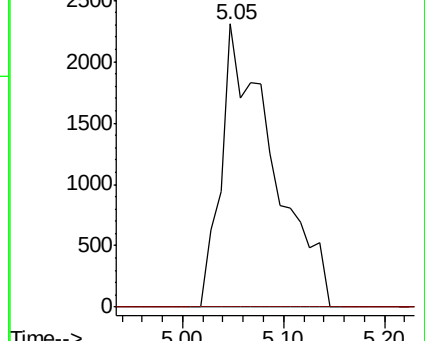
43 100

86 0.0 6.3 9.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#25

2-Butanone

Concen: 6.533 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD061322.D

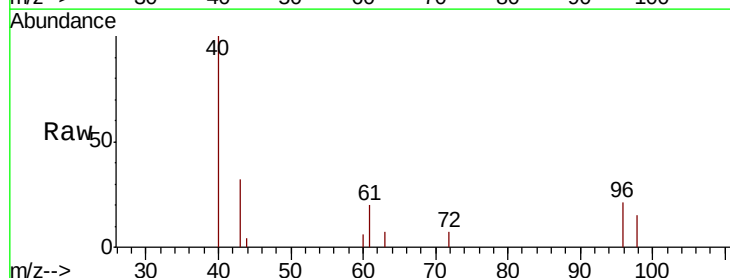
Acq: 26 Mar 2019 2:54

Tgt Ion: 43 Resp: 8046

Ion Ratio Lower Upper

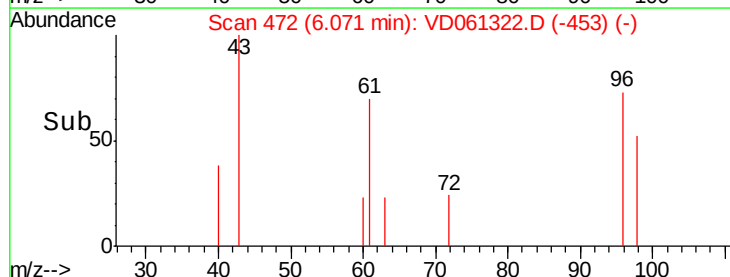
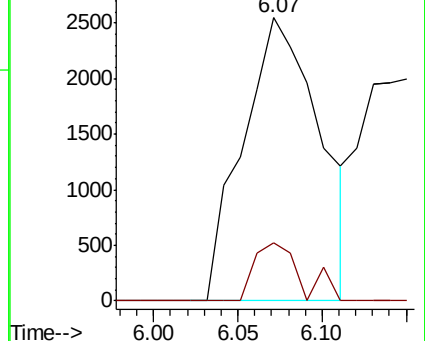
43 100

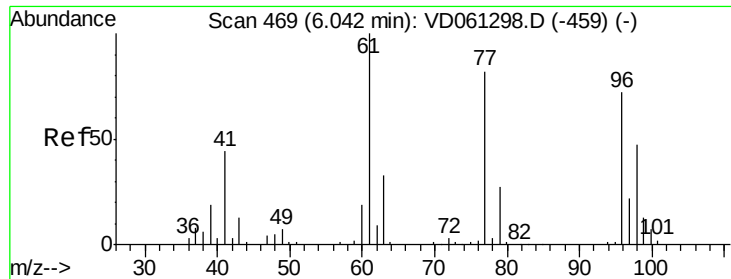
72 20.7 18.5 27.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.346 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.10 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

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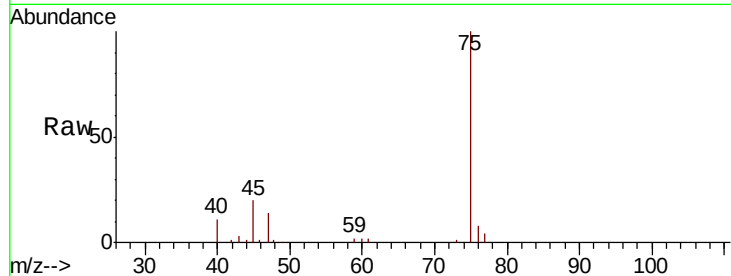
WP022SB439-190318-(25-27)RE

Tot Ion: 77 Resp: 9915

Ion Ratio Lower Upper

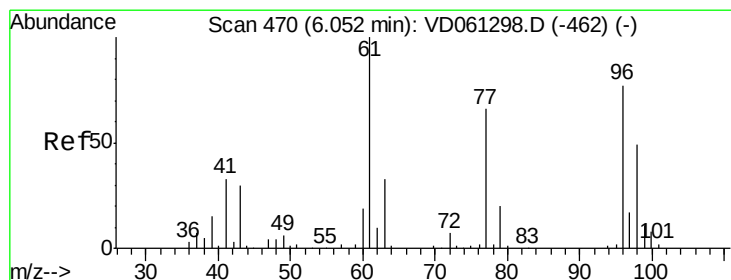
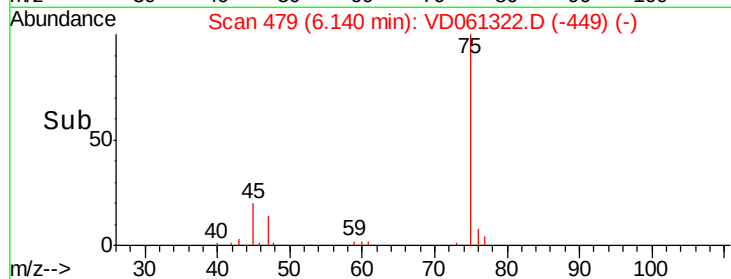
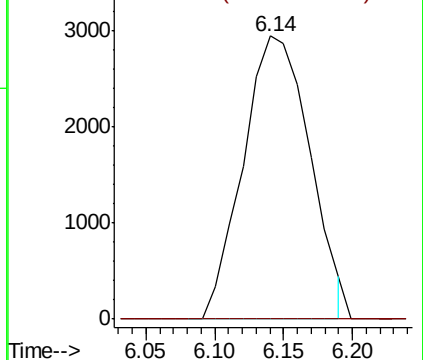
77 100

97 0.0 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: 2.350 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.01 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

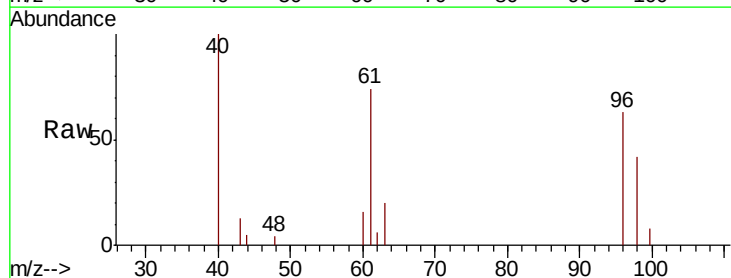
Tgt Ion: 96 Resp: 14093

Ion Ratio Lower Upper

96 100

61 117.5 0.0 261.0

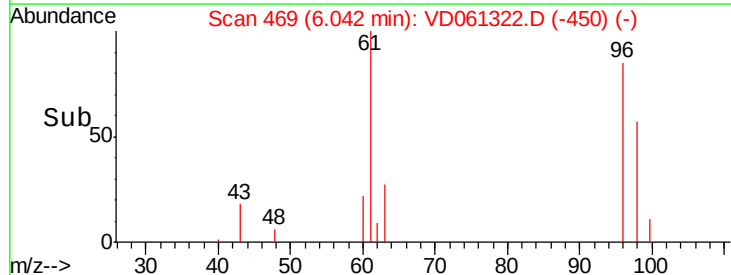
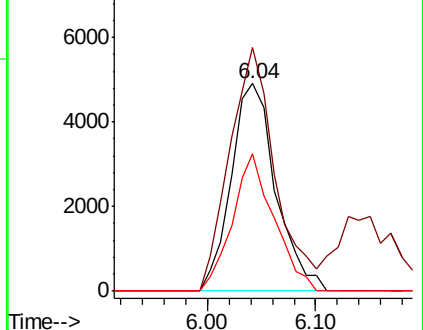
98 66.4 0.0 127.6

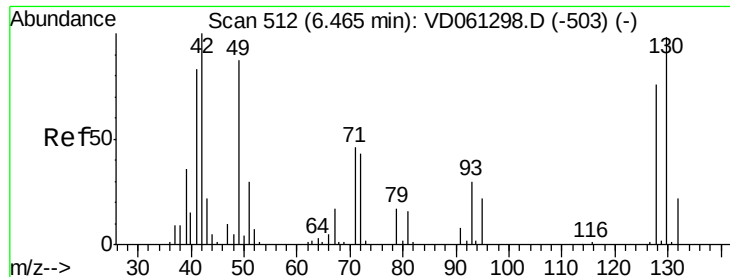


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#29

Tetrahydrofuran

Concen: 3.112 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

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MSVOA_D

ClientSampleId :

WP022SB439-190318-(25-27)RE

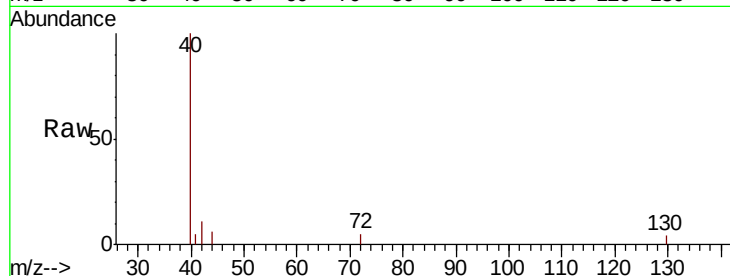
Tot Ion: 42 Resp: 1908

Ion Ratio Lower Upper

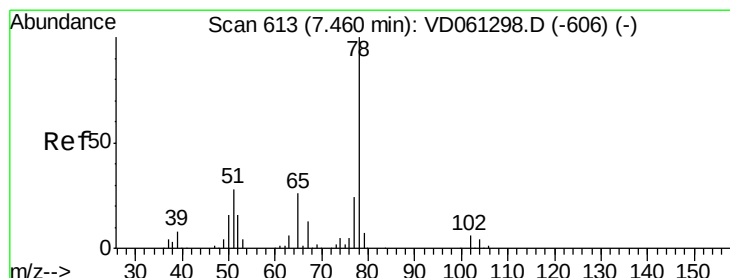
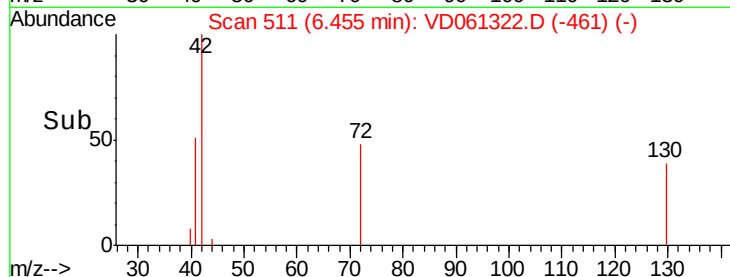
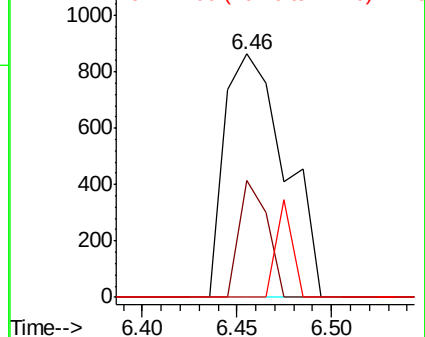
42 100

72 22.3 36.6 54.8#

71 10.7 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: Below ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061322.D

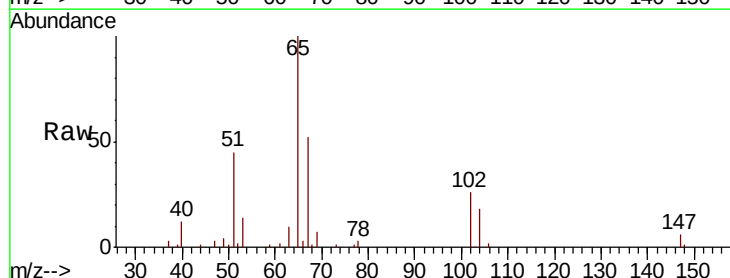
Acq: 26 Mar 2019 2:54

Tgt Ion: 65 Resp: 189497

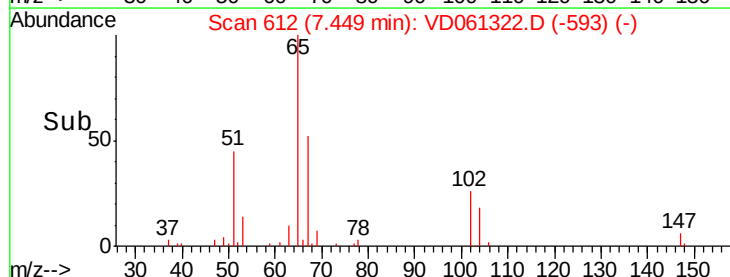
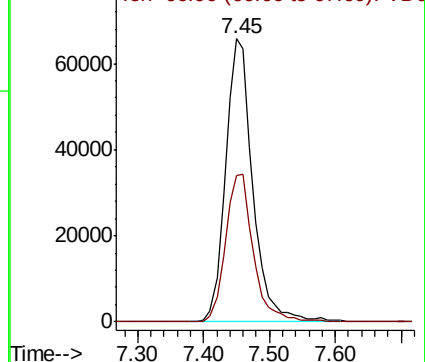
Ion Ratio Lower Upper

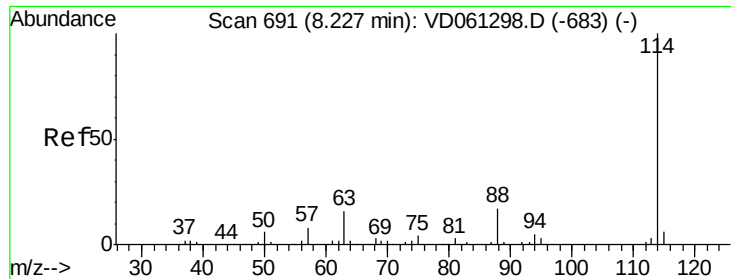
65 100

67 51.7 0.0 100.8



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

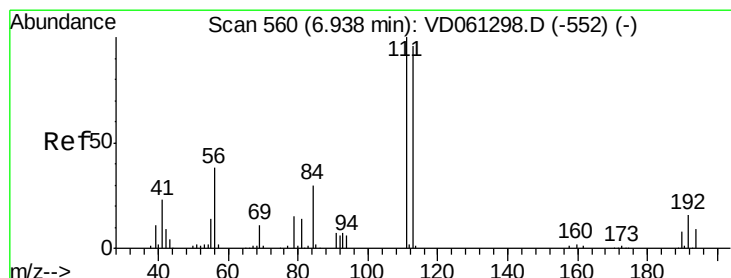
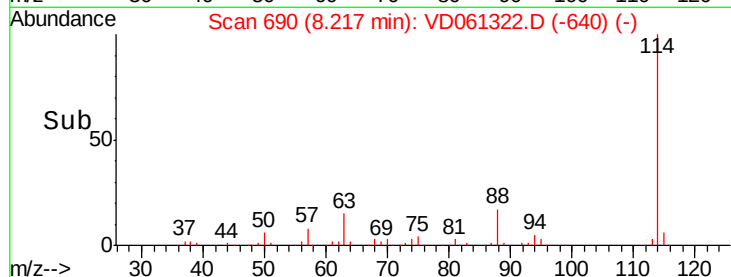
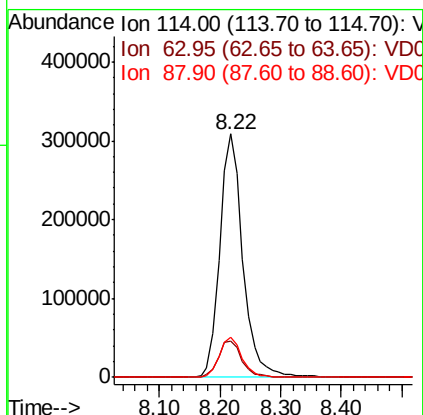
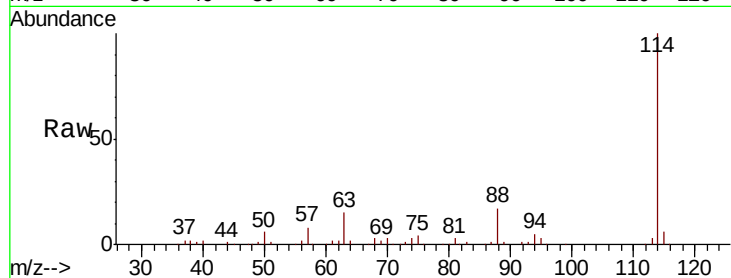




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

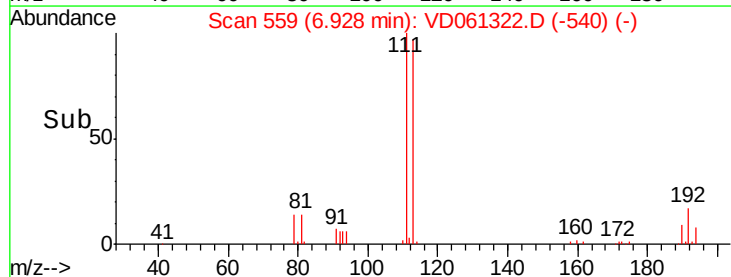
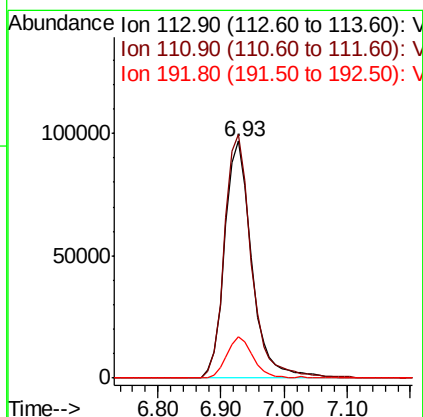
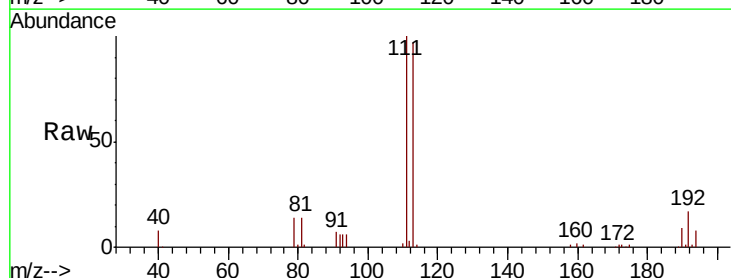
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(25-27)RE

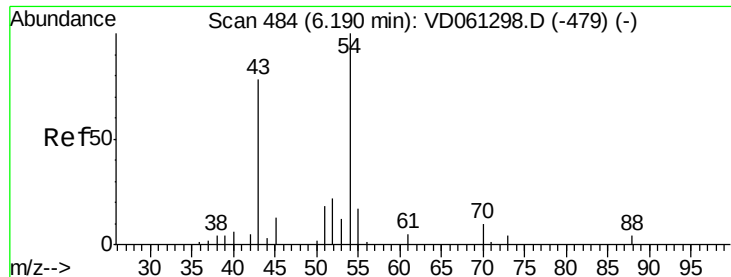
Tot Ion:114 Resp: 815853
 Ion Ratio Lower Upper
 114 100
 63 14.9 0.0 31.4
 88 16.5 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

Tgt Ion:113 Resp: 289515
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.7 125.5
 192 17.6 13.4 20.0





#37

Ethyl Acetate

Concen: 2.705 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.04 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(25-27)RE

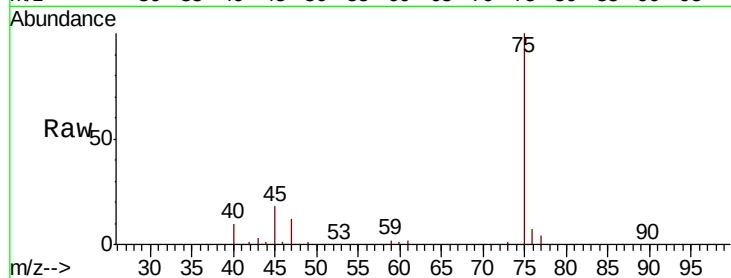
Tot Ion: 43 Resp: 7541

Ion Ratio Lower Upper

43 100

61 88.5 12.6 19.0#

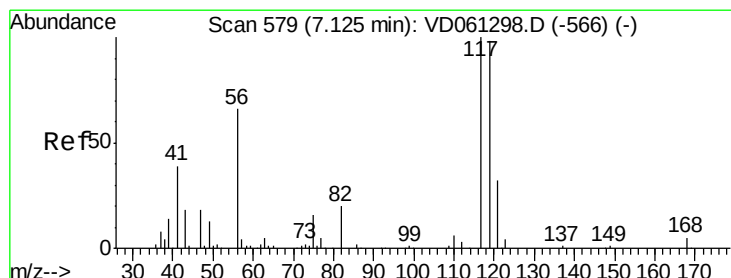
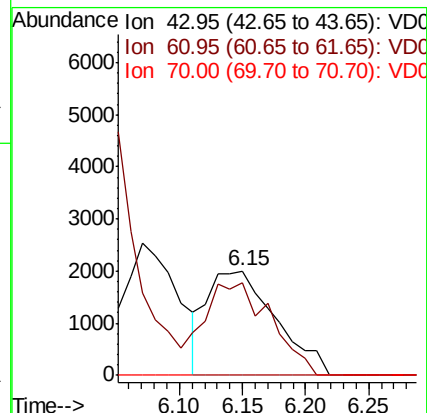
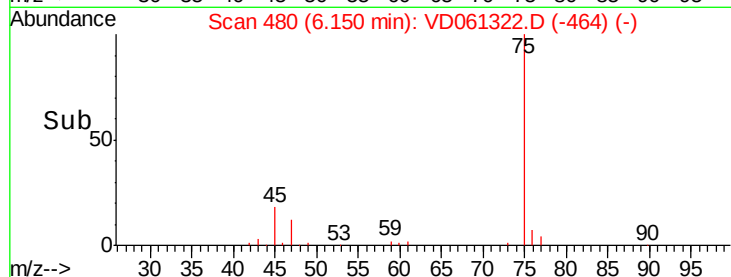
70 0.0 8.2 12.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 6.461 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

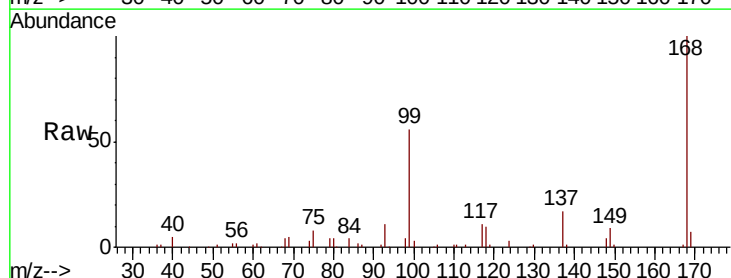
Tgt Ion: 117 Resp: 49290

Ion Ratio Lower Upper

117 100

119 4.9 78.4 117.6#

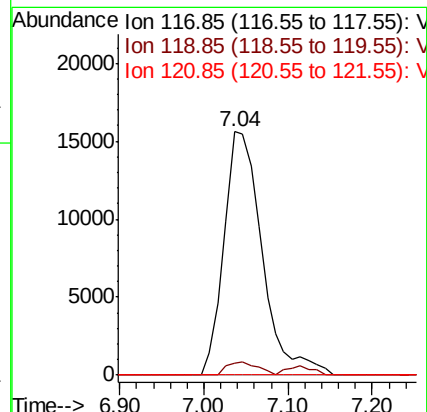
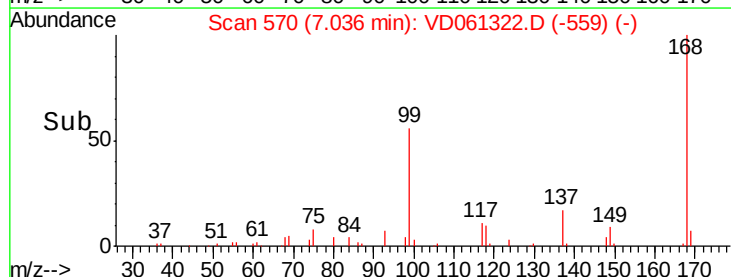
121 0.0 25.1 37.7#

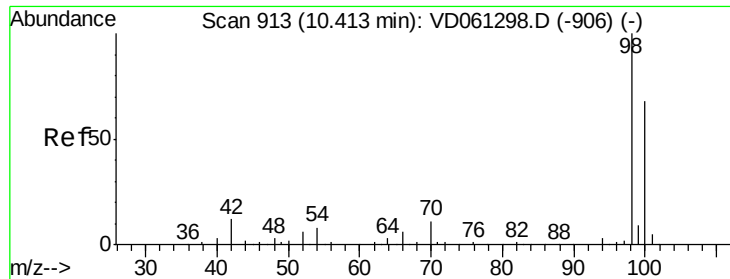


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

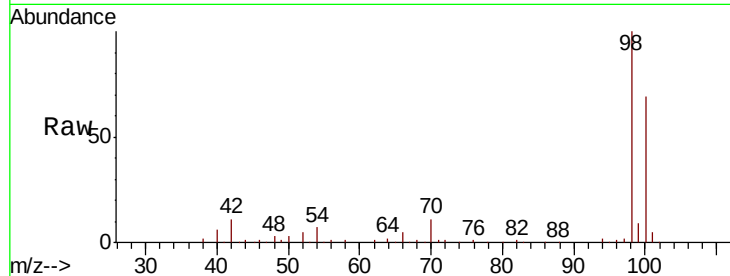




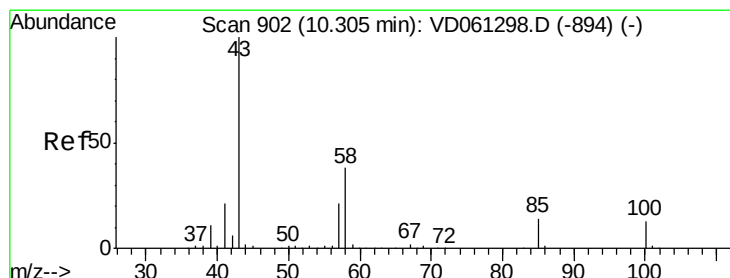
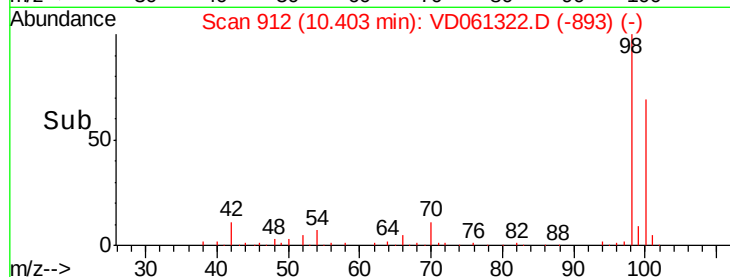
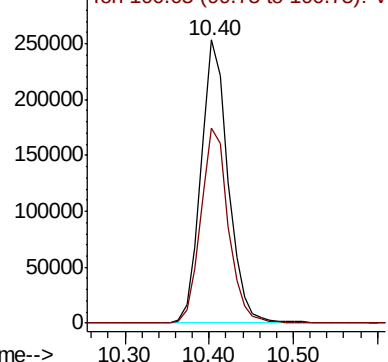
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD061322.D
Acq: 26 Mar 2019 2:54

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(25-27)RE

Tot Ion: 98 Resp: 570202
Ion Ratio Lower Upper
98 100
100 68.9 55.4 83.0

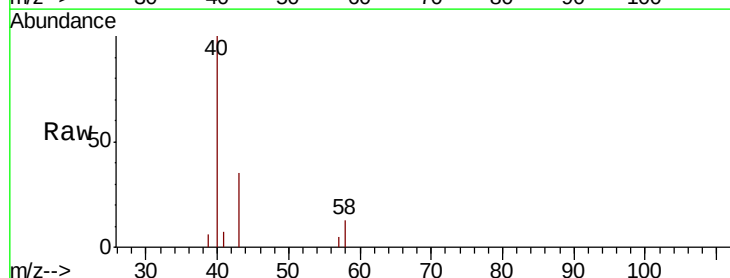


Abundance Ion 98.05 (97.75 to 98.75): VD061298.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061298.D (-906) (-)

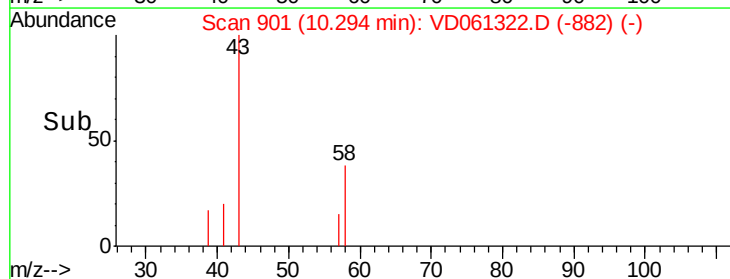
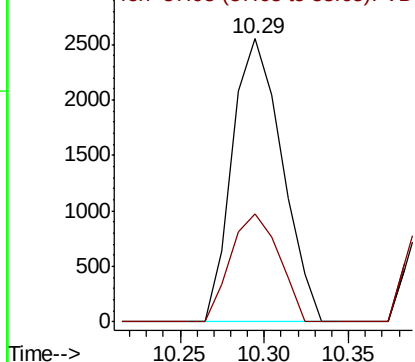


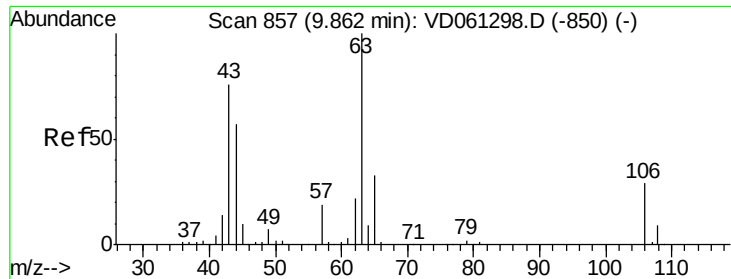
#51
4-Methyl-2-Pentanone
Concen: 2.183 ug/l
RT: 10.29 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD061322.D
Acq: 26 Mar 2019 2:54

Tgt Ion: 43 Resp: 5225
Ion Ratio Lower Upper
43 100
58 38.4 30.6 45.8



Abundance Ion 42.95 (42.65 to 43.65): VD061298.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD061298.D (-894) (-)

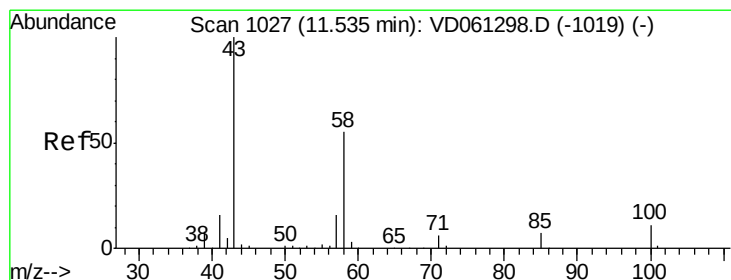
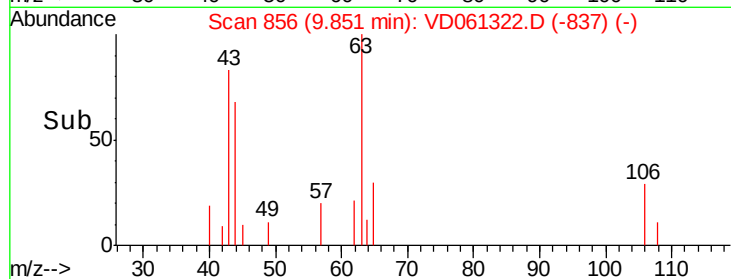
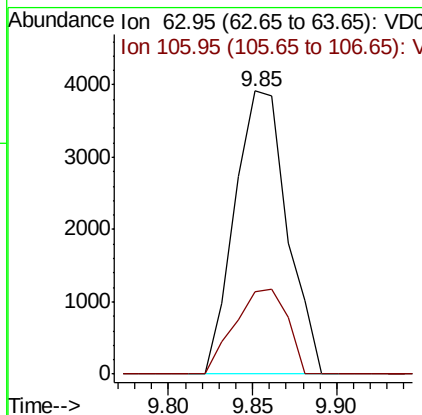
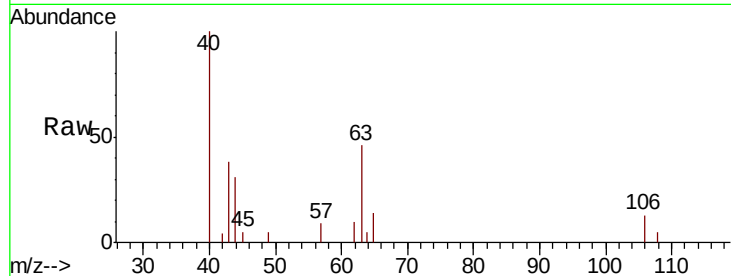




#58
 2-Chloroethyl Vinyl ether
 Concen: 4.521 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

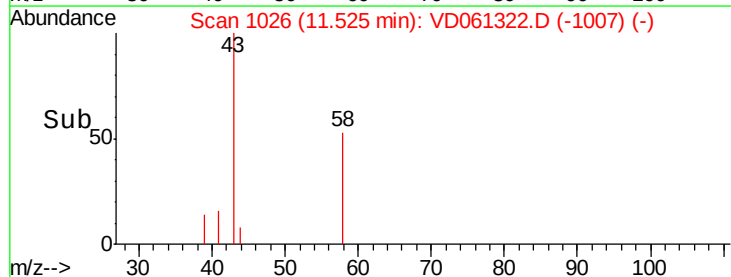
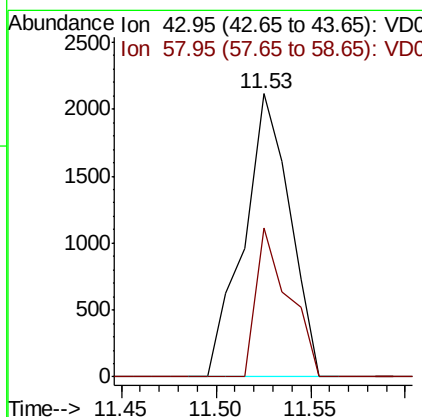
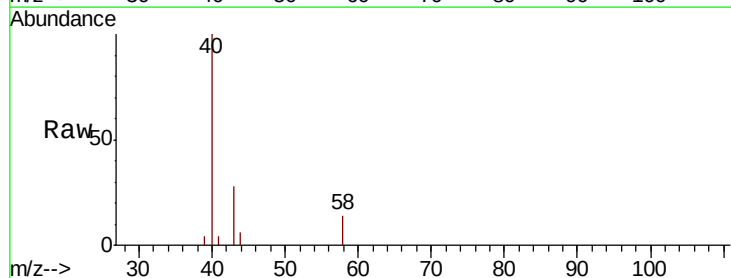
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(25-27)RE

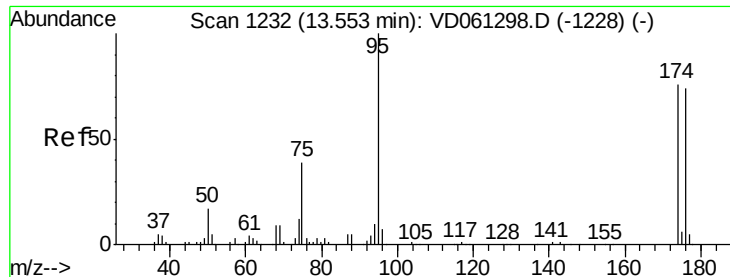
Tot Ion: 63 Resp: 8452
 Ion Ratio Lower Upper
 63 100
 106 29.2 23.4 35.0



#59
 2-Hexanone
 Concen: 2.054 ug/l
 RT: 11.53 min Scan# 1026
 Delta R.T. -0.01 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

Tgt Ion: 43 Resp: 3570
 Ion Ratio Lower Upper
 43 100
 58 52.6 27.4 82.0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

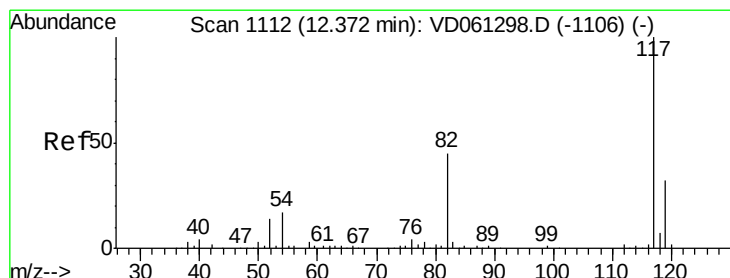
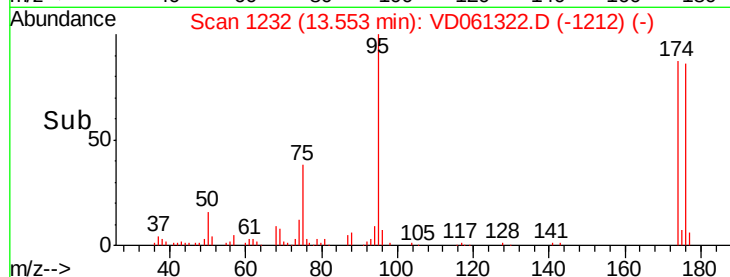
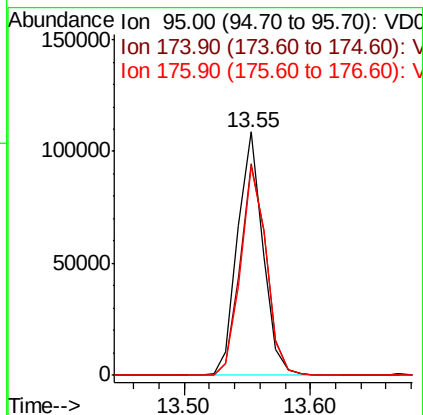
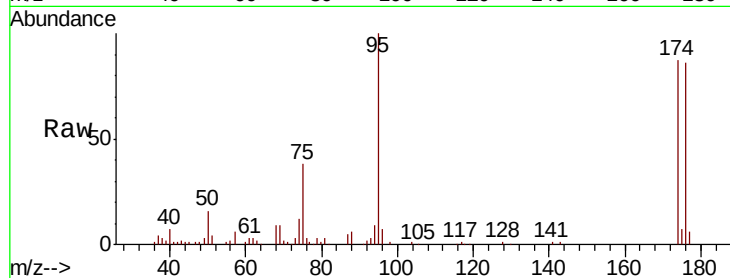
Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(25-27)RE

Tot Ion:	95	Resp:	150807
Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	151.8
176	86.1	0.0	148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

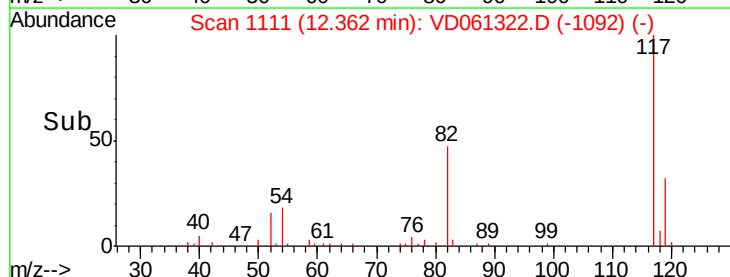
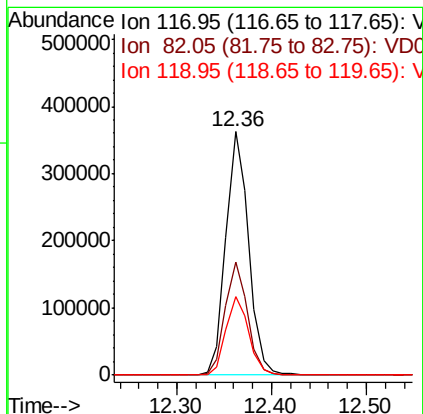
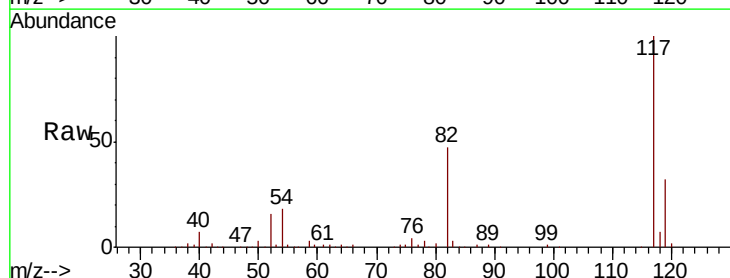
RT: 12.36 min Scan# 1111

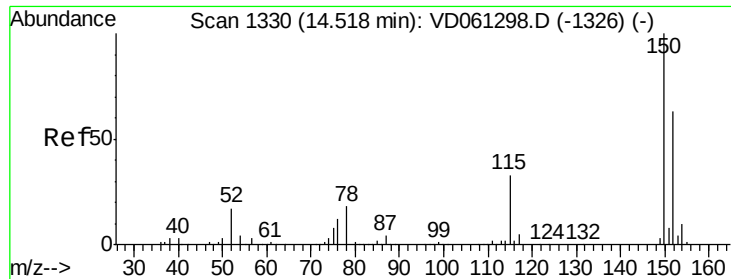
Delta R.T. -0.01 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Tgt Ion:	117	Resp:	603719
Ion	Ratio	Lower	Upper
117	100		
82	46.5	35.7	53.5
119	32.3	25.9	38.9

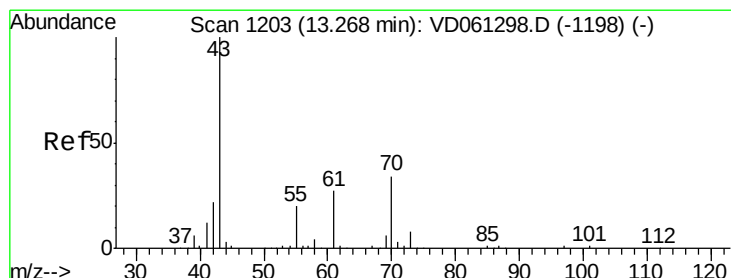
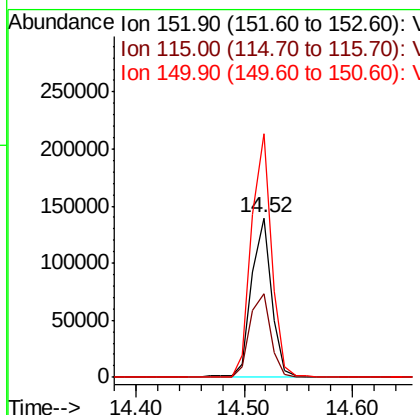
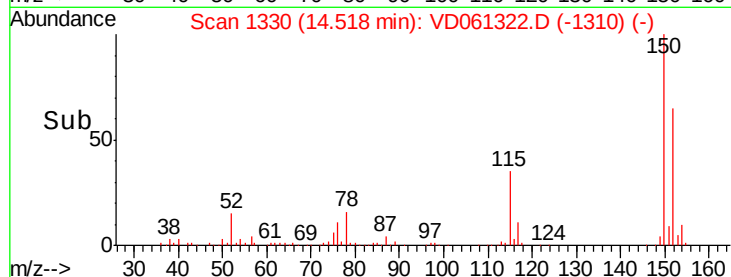
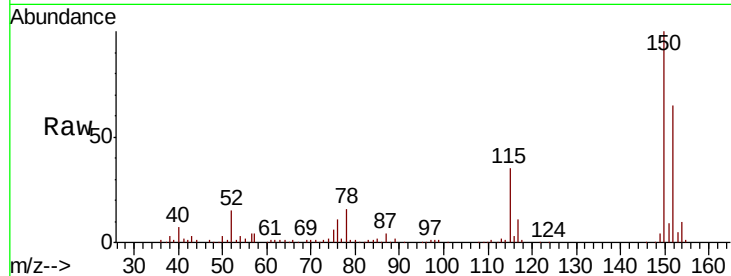




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

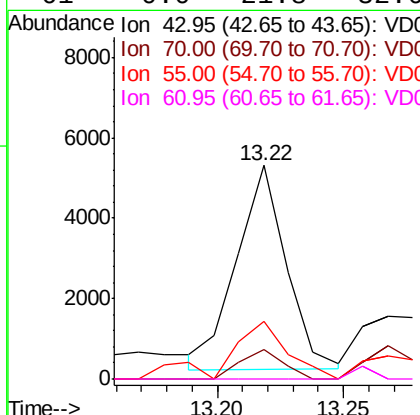
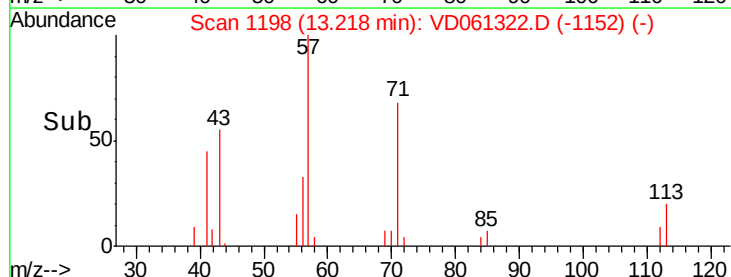
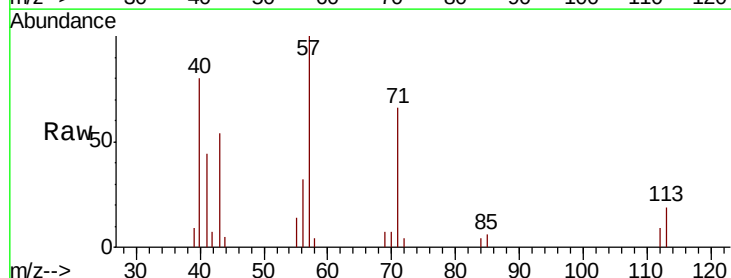
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(25-27)RE

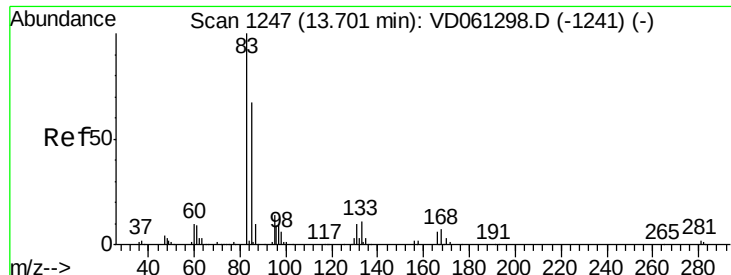
Tot Ion:152 Resp: 181282
 Ion Ratio Lower Upper
 152 100
 115 52.9 29.2 87.6
 150 152.9 0.0 319.6



#74
 N-ethyl acetate
 Concen: 2.247 ug/l
 RT: 13.22 min Scan# 1198
 Delta R.T. -0.05 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

Tgt Ion: 43 Resp: 6933
 Ion Ratio Lower Upper
 43 100
 70 13.5 27.5 41.3#
 55 26.9 15.7 23.5#
 61 0.0 21.8 32.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.176 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(25-27)RE

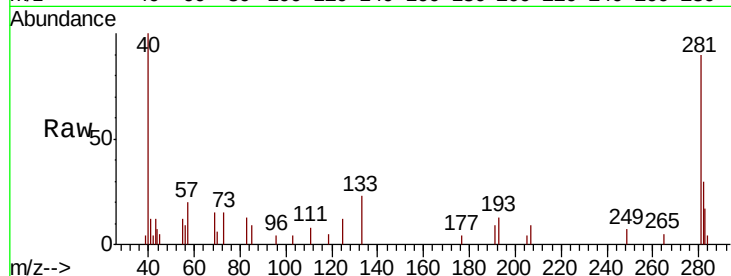
Tot Ion: 83 Resp: 2689

Ion Ratio Lower Upper

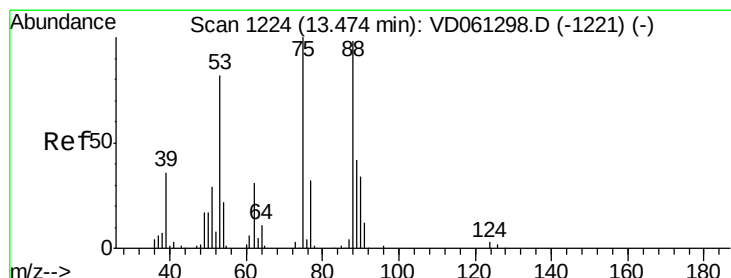
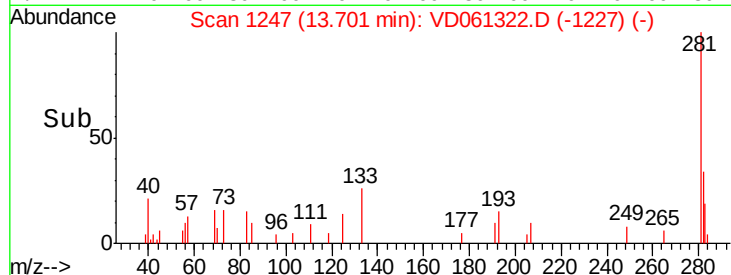
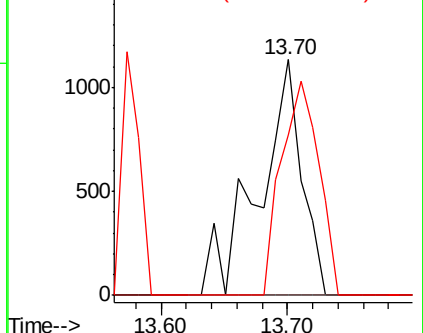
83 100

131 0.0 5.0 15.0#

85 67.9 33.4 100.2



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 78.601 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061322.D

Acq: 26 Mar 2019 2:54

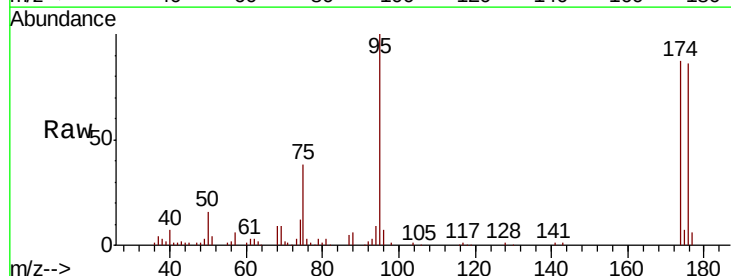
Tgt Ion: 75 Resp: 55923

Ion Ratio Lower Upper

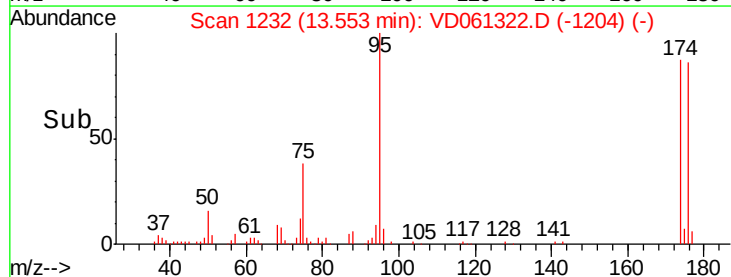
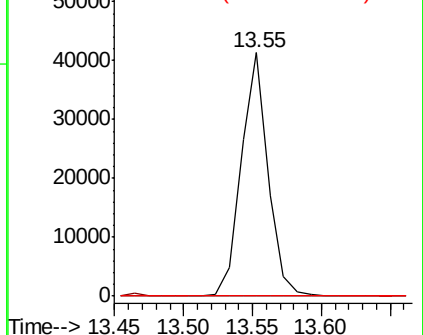
75 100

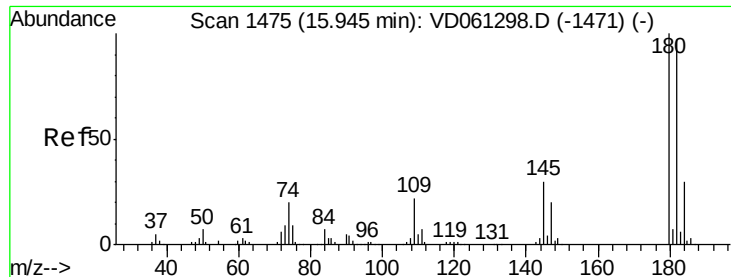
53 0.0 65.3 97.9#

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

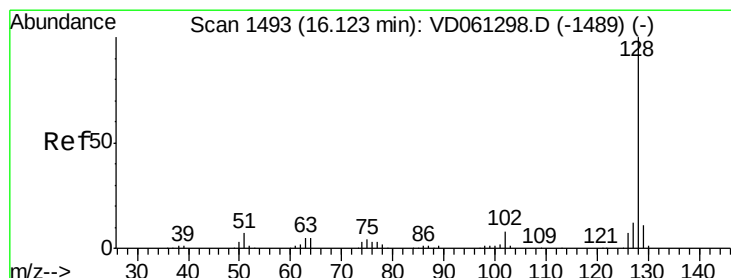
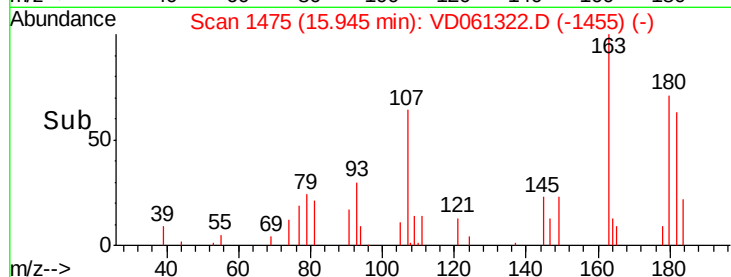
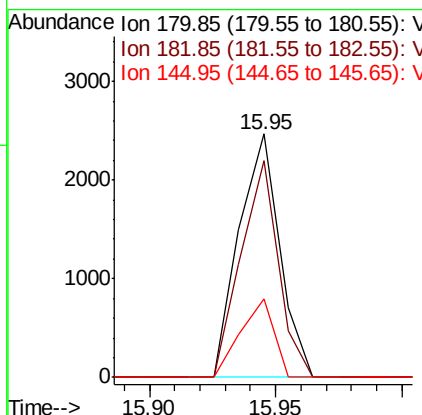
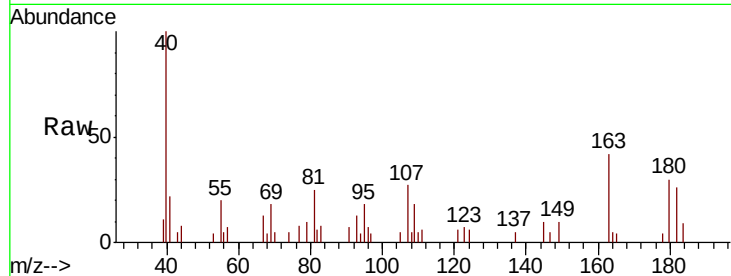




#93
 1,2,4-Trichlorobenzene
 Concen: 1.284 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

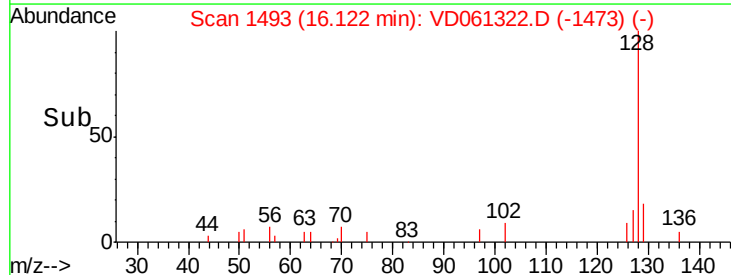
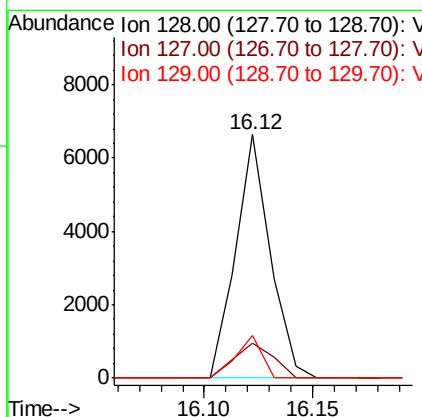
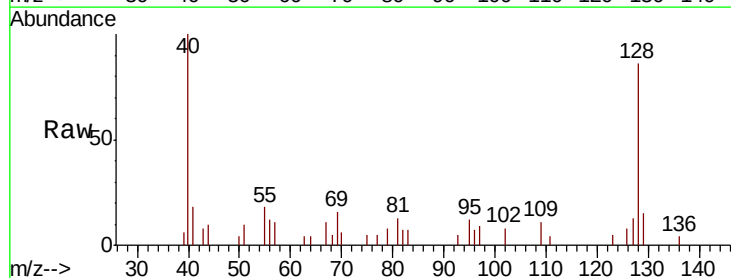
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(25-27)RE

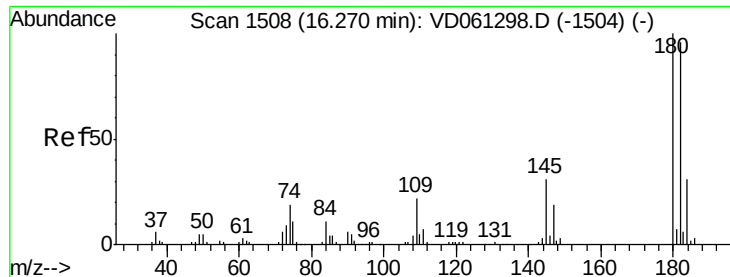
Tot Ion:180 Resp: 2763
 Ion Ratio Lower Upper
 180 100
 182 89.1 48.3 144.9
 145 32.4 14.8 44.4



#95
 Naphthalene
 Concen: 2.346 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

Tgt Ion:128 Resp: 7364
 Ion Ratio Lower Upper
 128 100
 127 14.5 9.8 14.6
 129 17.6 8.6 12.8#

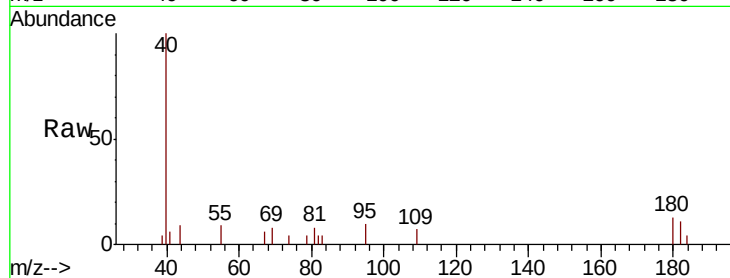




#96
 1,2,3-Trichlorobenzene
 Concen: 1.719 ug/l
 RT: 16.26 min Scan# 1507
 Delta R.T. -0.01 min
 Lab File: VD061322.D
 Acq: 26 Mar 2019 2:54

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(25-27)RE

Tot Ion	Ion	Ratio	Lower	Upper
180	180	100		
182	182	88.0	48.0	144.2
145	145	0.0	15.4	46.4



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

