

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122718\
 Data File : VD060737.D
 Acq On : 27 Dec 2018 20:14
 Operator : VA/AP
 Sample : J6447-06RE
 Misc : 3.22g/5ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P001-SS025-0006-01RE

Quant Time: Dec 28 01:39:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.37	168	74864	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	7.40	114	142132	50.00	ug/l	-0.04
63) Chlorobenzene-d5	11.26	117	102088	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.36	152	31467	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.74	65	115345	222.95	ug/l	-0.05
Spiked Amount			Recovery	=	445.90%	
35) Dibromofluoromethane	6.29	113	96164	92.44	ug/l	-0.04
Spiked Amount			Recovery	=	184.88%	
50) Toluene-d8	9.42	98	129827	41.83	ug/l	-0.04
Spiked Amount			Recovery	=	83.66%	
62) 4-Bromofluorobenzene	12.40	95	32167	29.59	ug/l	-0.02
Spiked Amount			Recovery	=	59.18%	

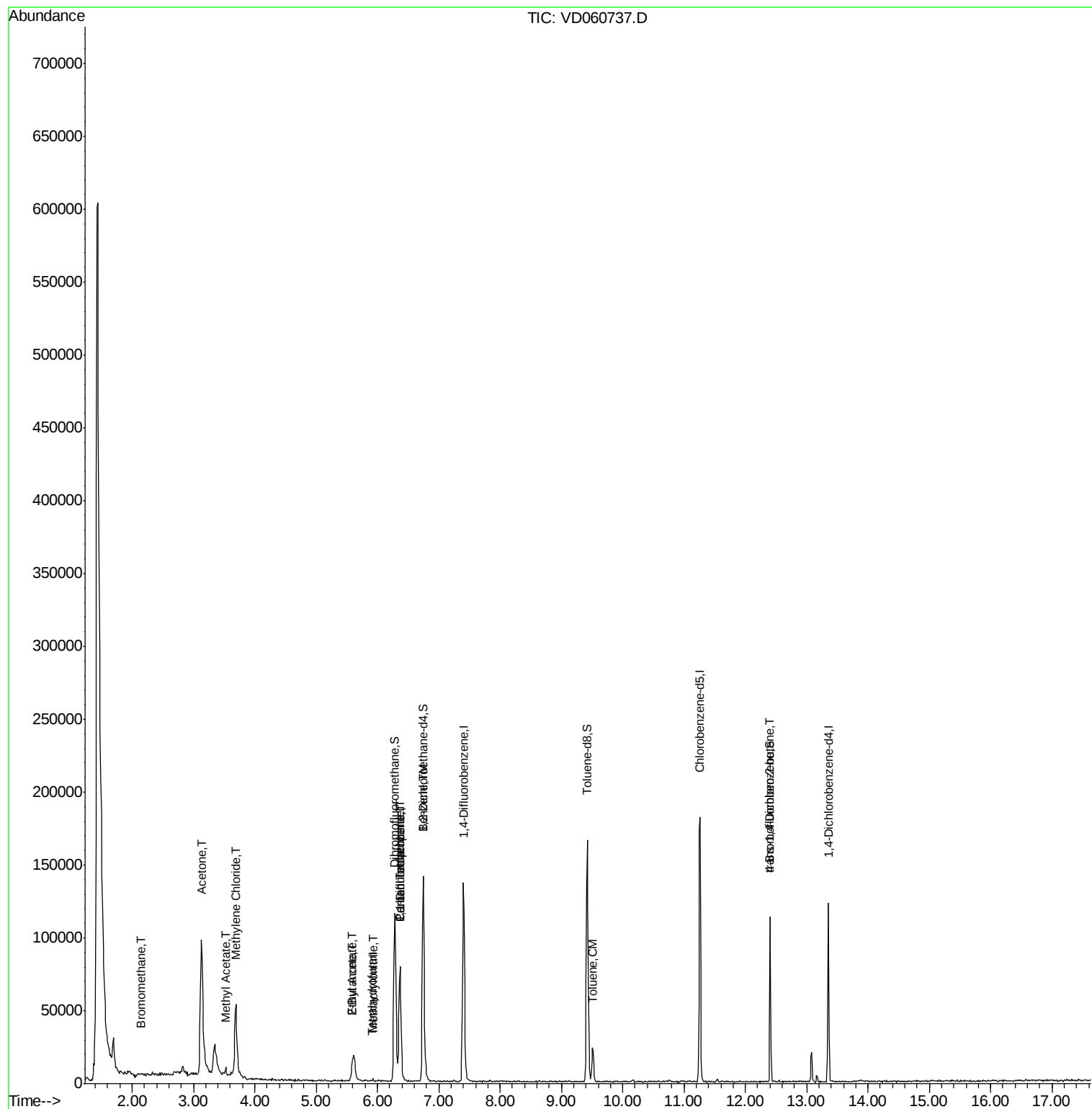
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	662	4.228	ug/l #	2
16) Acetone	3.13	43	205217	2271.349	ug/l	96
18) Methyl Acetate	3.53	43	4803	21.450	ug/l #	63
20) Methylene Chloride	3.68	84	31145	33.193	ug/l	97
25) 2-Butanone	5.58	43	12566	72.681	ug/l #	87
29) Tetrahydrofuran	5.91	42	244	2.489	ug/l #	40
36) 1,1-Dichloropropene	6.37	75	5737	3.920	ug/l #	40
37) Ethyl Acetate	5.58	43	12566	20.529	ug/l #	69
38) Carbon Tetrachloride	6.37	117	5840	4.523	ug/l #	12
40) Benzene	6.75	78	10765	2.848	ug/l #	85
41) Methacrylonitrile	5.93	41	455	1.344	ug/l #	36
52) Toluene	9.52	92	12787	5.395	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	13553	136.910	ug/l #	13

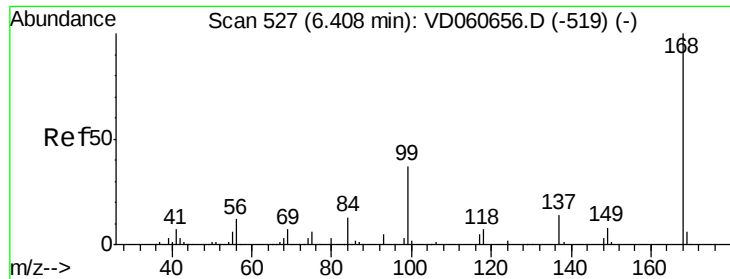
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 21 17:37:47 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 523

Delta R.T. -0.04 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

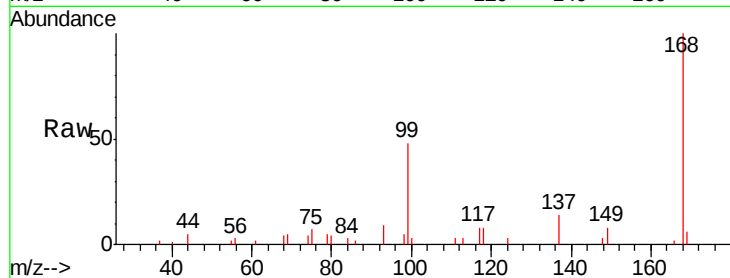
P001-SS025-0006-01RE

Tgt Ion:168 Resp: 74864

Ion Ratio Lower Upper

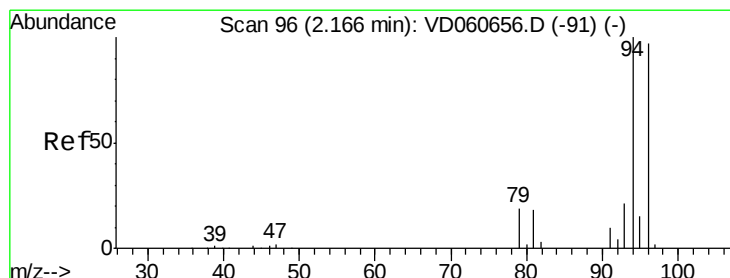
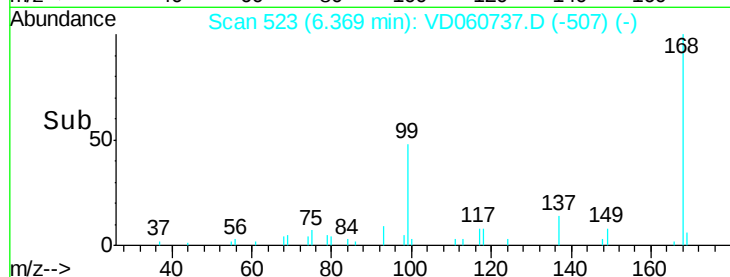
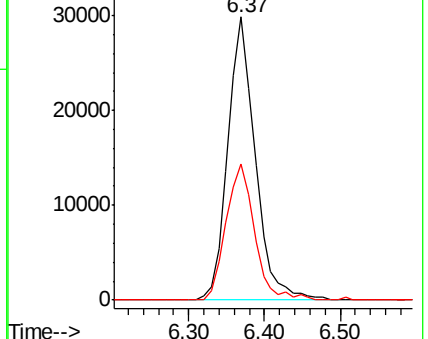
168 100

99 48.1 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 4.228 ug/l

RT: 2.14 min Scan# 93

Delta R.T. -0.03 min

Lab File: VD060737.D

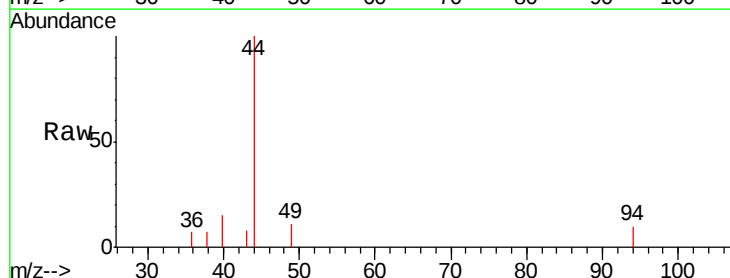
Acq: 27 Dec 2018 20:14

Tgt Ion: 94 Resp: 662

Ion Ratio Lower Upper

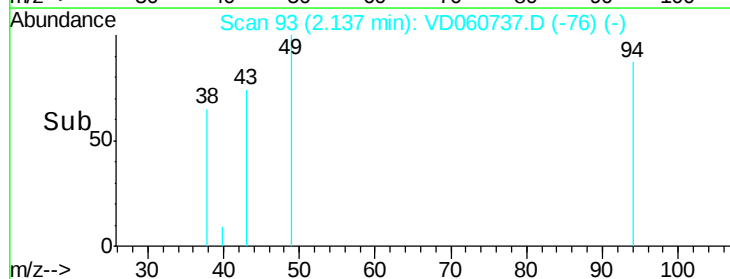
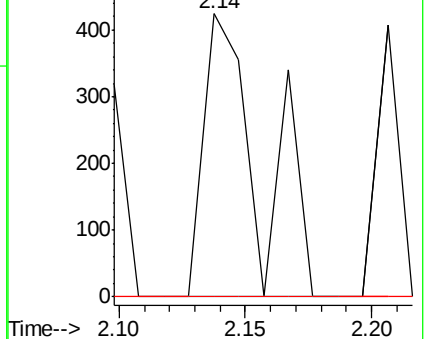
94 100

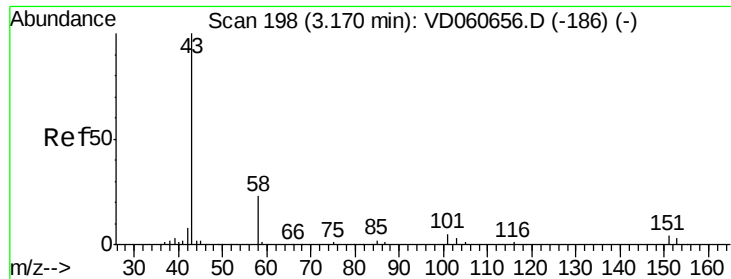
96 0.0 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 2271.349 ug/l

RT: 3.13 min Scan# 194

Delta R.T. -0.04 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

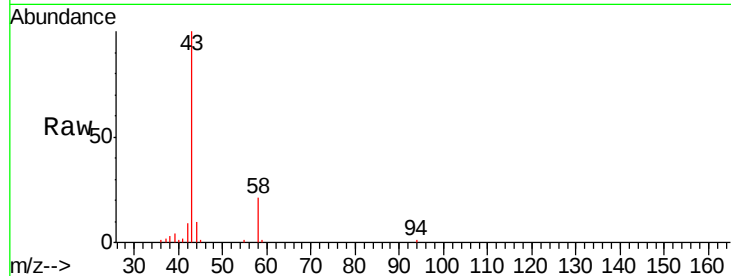
P001-SS025-0006-01RE

Tgt Ion: 43 Resp: 205217

Ion Ratio Lower Upper

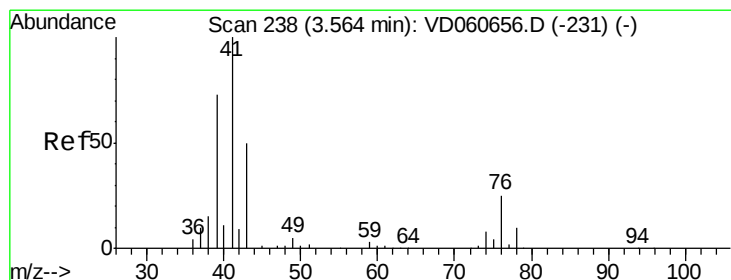
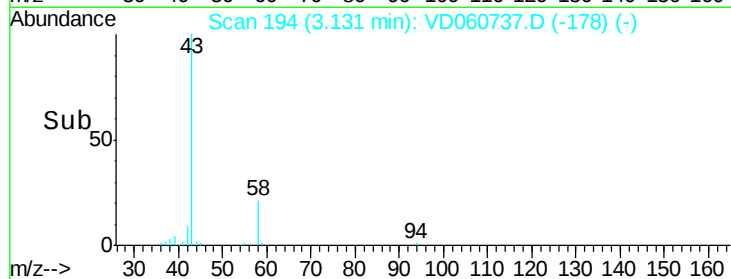
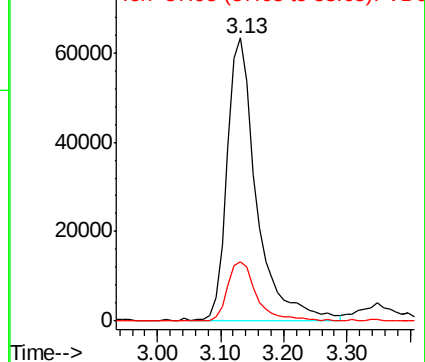
43 100

58 20.8 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 21.450 ug/l

RT: 3.53 min Scan# 234

Delta R.T. -0.04 min

Lab File: VD060737.D

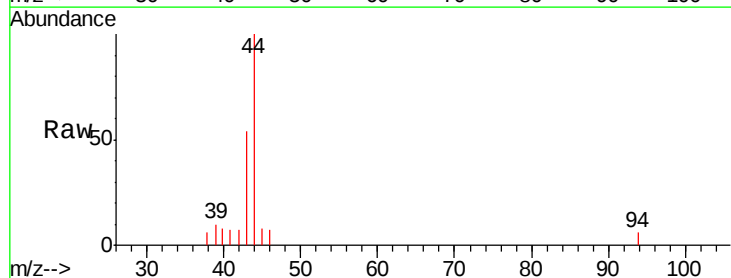
Acq: 27 Dec 2018 20:14

Tgt Ion: 43 Resp: 4803

Ion Ratio Lower Upper

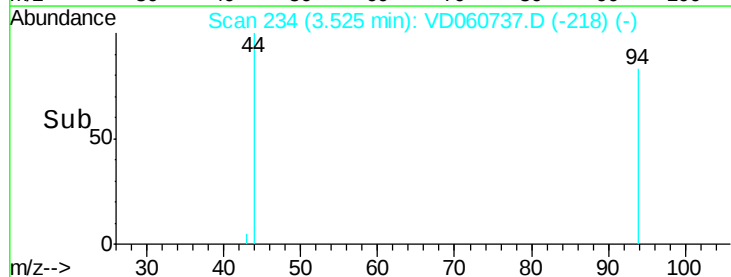
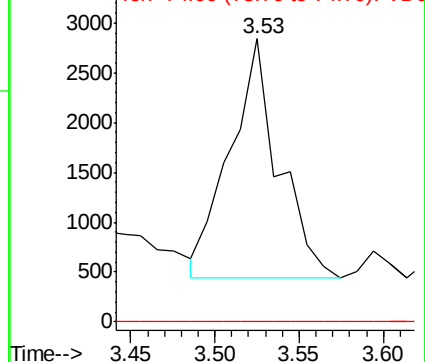
43 100

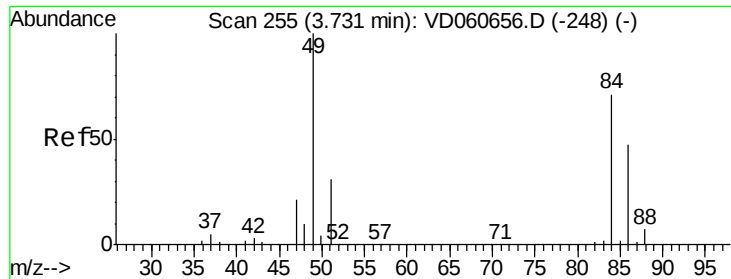
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

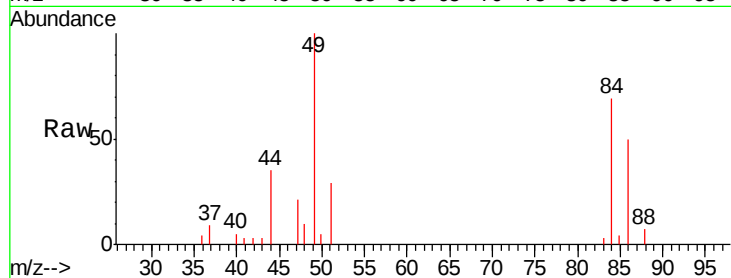




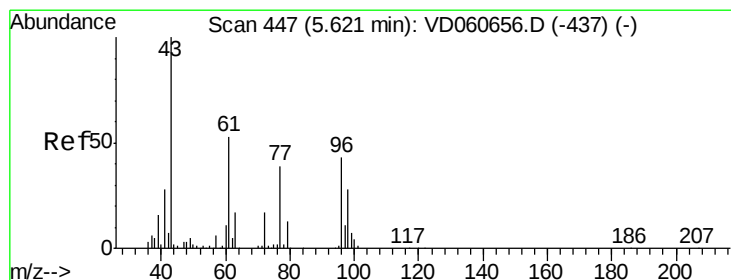
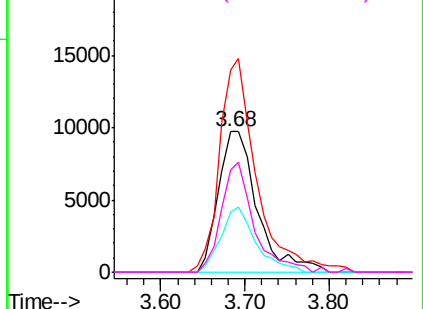
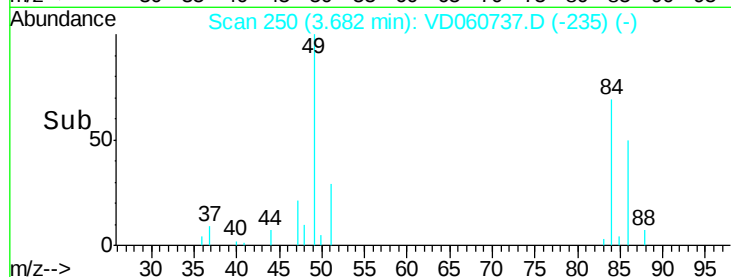
#20
Methylene Chloride
Concen: 33.193 ug/l
RT: 3.68 min Scan# 250
Delta R.T. -0.05 min
Lab File: VD060737.D
Acq: 27 Dec 2018 20:14

Instrument :
MSVOA_D
ClientSampleId :
P001-SS025-0006-01RE

Tgt Ion: 84 Resp: 31145
Ion Ratio Lower Upper
84 100
49 144.3 113.6 170.4
51 42.5 34.7 52.1
86 72.6 52.8 79.2

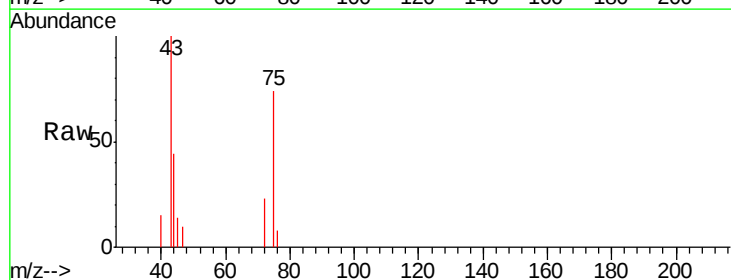


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

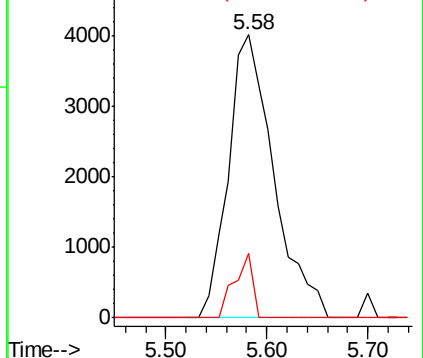
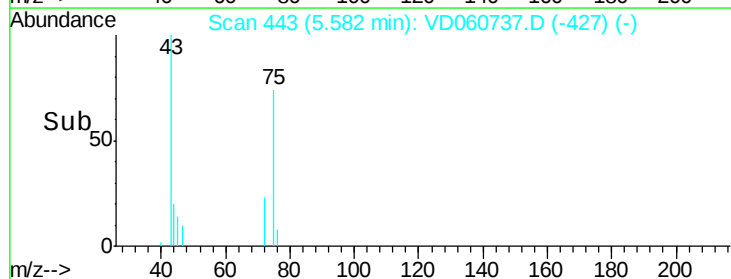


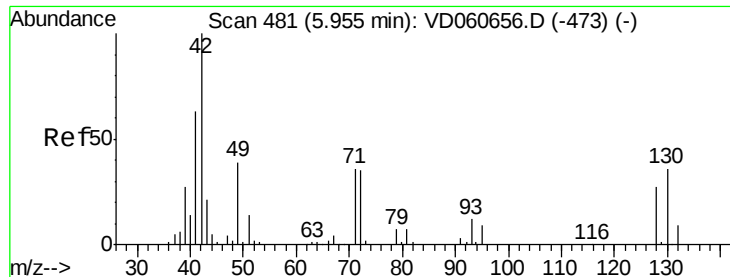
#25
2-Butanone
Concen: 72.681 ug/l
RT: 5.58 min Scan# 443
Delta R.T. -0.04 min
Lab File: VD060737.D
Acq: 27 Dec 2018 20:14

Tgt Ion: 43 Resp: 12566
Ion Ratio Lower Upper
43 100
72 22.8 13.7 20.5#



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





#29

Tetrahydrofuran

Concen: 2.489 ug/l

RT: 5.91 min Scan# 476

Delta R.T. -0.05 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

P001-SS025-0006-01RE

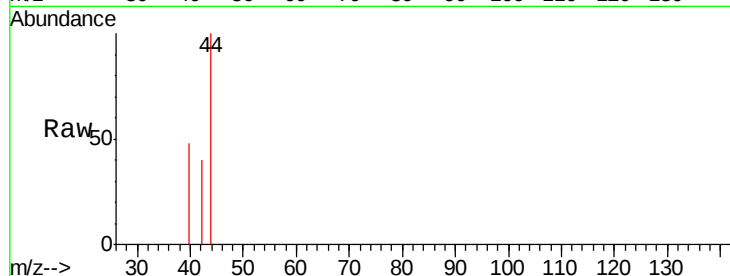
Tgt Ion: 42 Resp: 244

Ion Ratio Lower Upper

42 100

72 0.0 28.0 42.0#

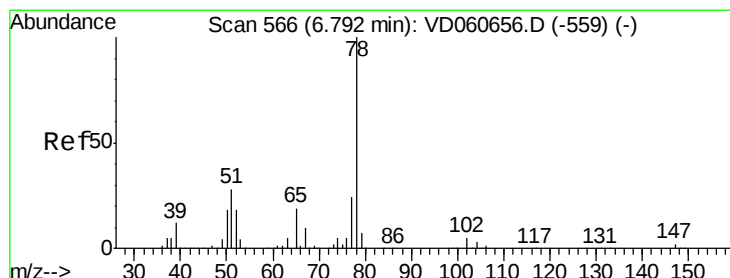
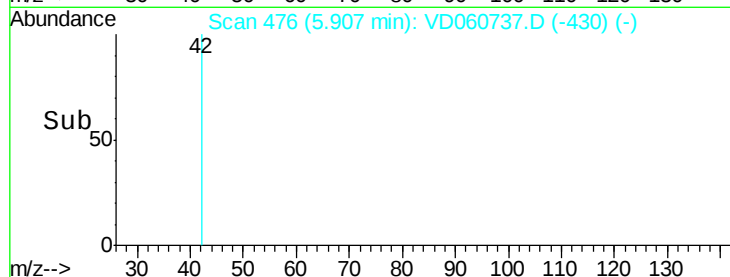
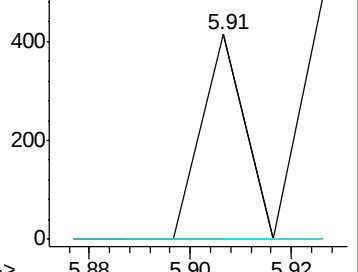
71 0.0 27.0 40.6#



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: 6.74 min Scan# 561

Delta R.T. -0.05 min

Lab File: VD060737.D

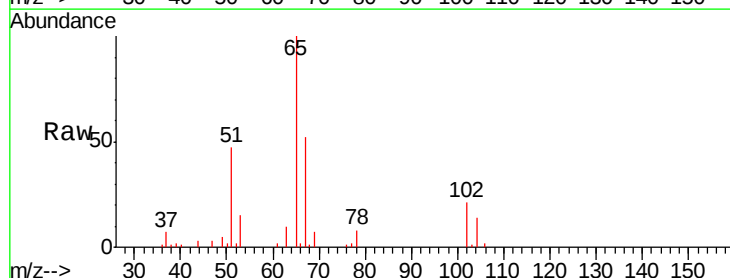
Acq: 27 Dec 2018 20:14

Tgt Ion: 65 Resp: 115345

Ion Ratio Lower Upper

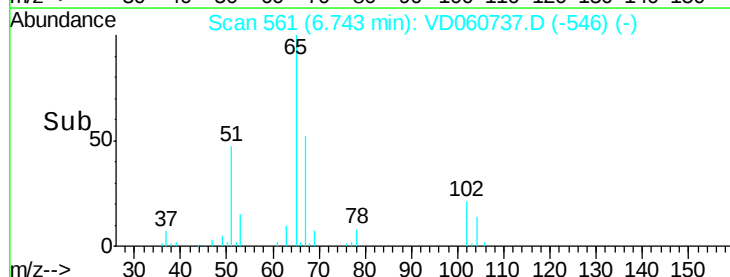
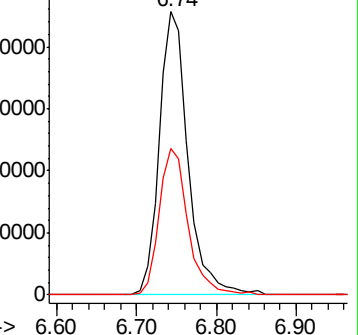
65 100

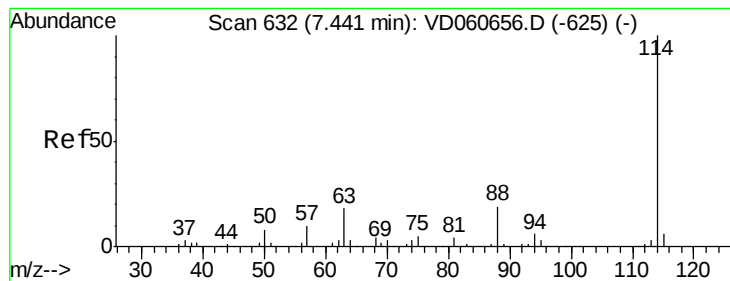
67 51.6 0.0 105.4



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: 7.40 min Scan# 628

Delta R.T. -0.04 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

P001-SS025-0006-01RE

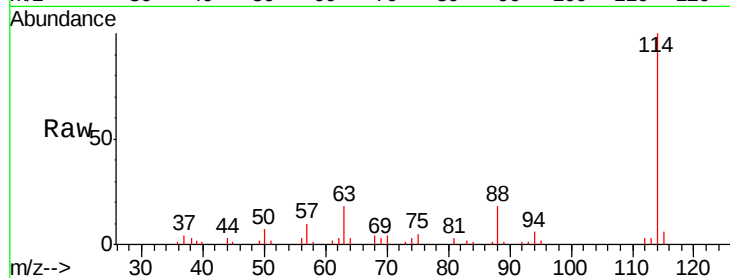
Tgt Ion:114 Resp: 142132

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.2

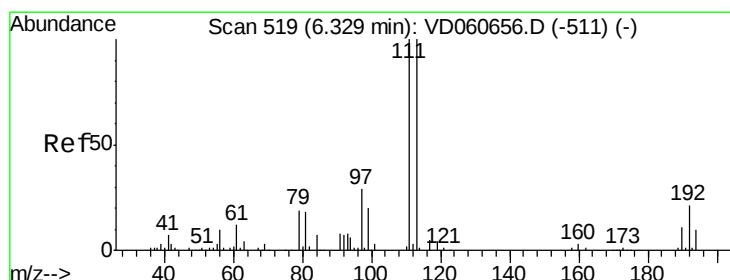
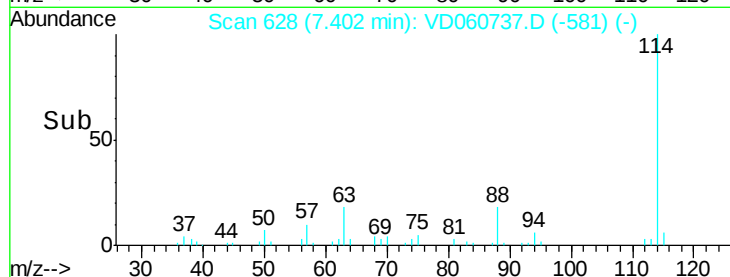
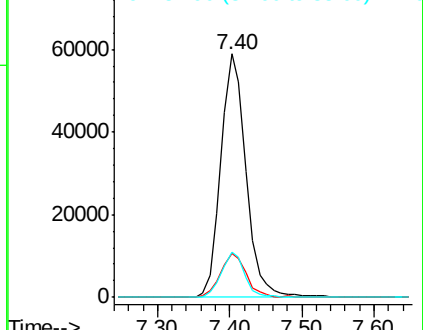
88 18.4 0.0 37.0



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: 6.29 min Scan# 515

Delta R.T. -0.04 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

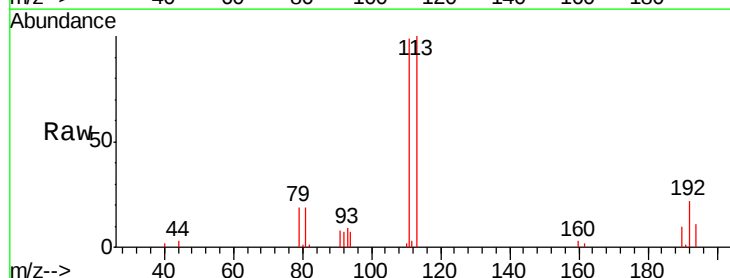
Tgt Ion:113 Resp: 96164

Ion Ratio Lower Upper

113 100

111 98.7 80.0 120.0

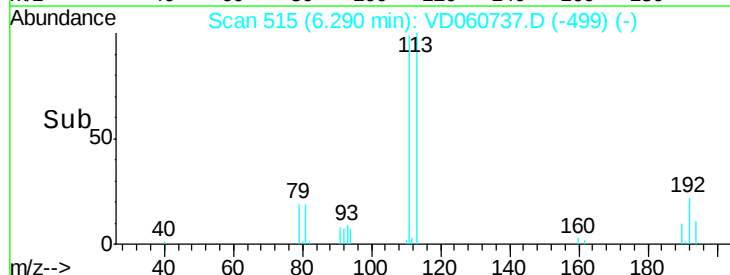
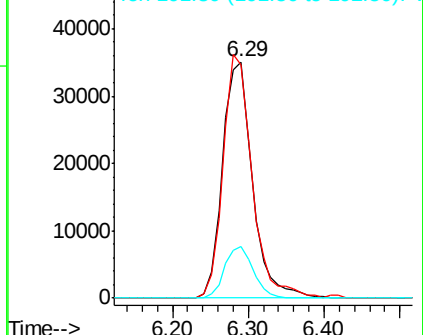
192 22.0 16.6 25.0

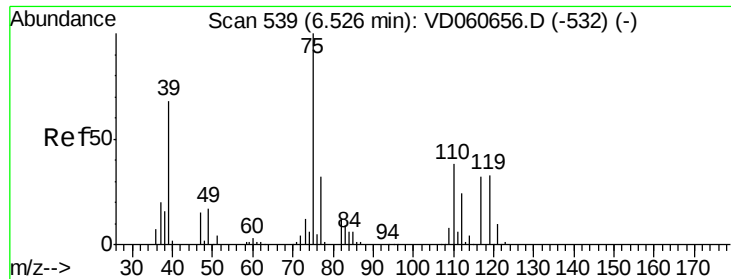


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

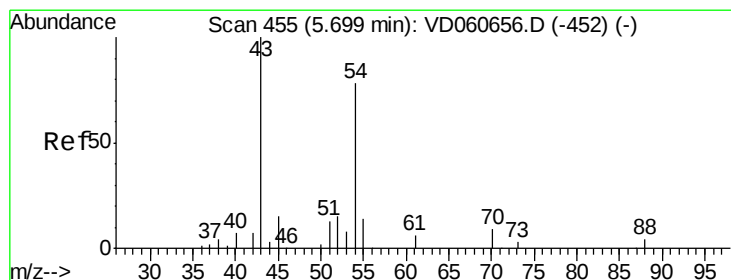
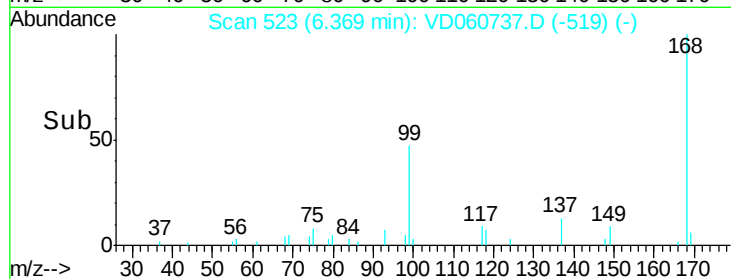
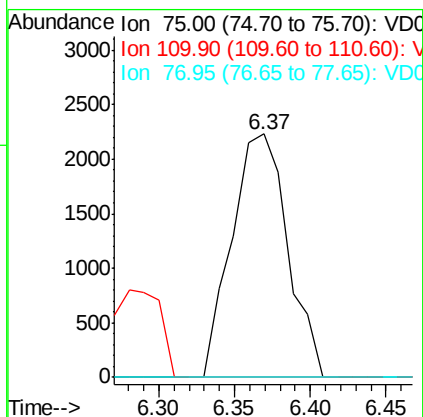
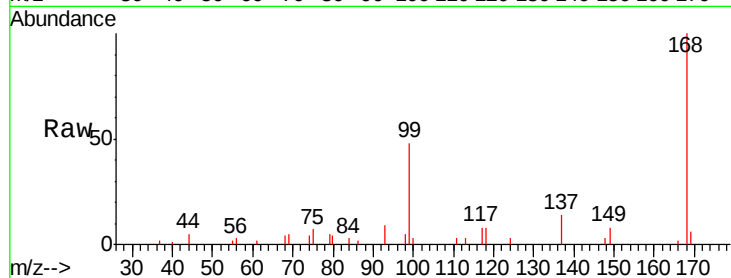




#36
 1,1-Dichloropropene
 Concen: 3.920 ug/l
 RT: 6.37 min Scan# 523
 Delta R.T. -0.16 min
 Lab File: VD060737.D
 Acq: 27 Dec 2018 20:14

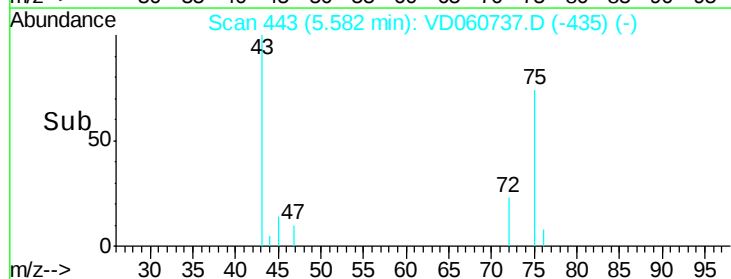
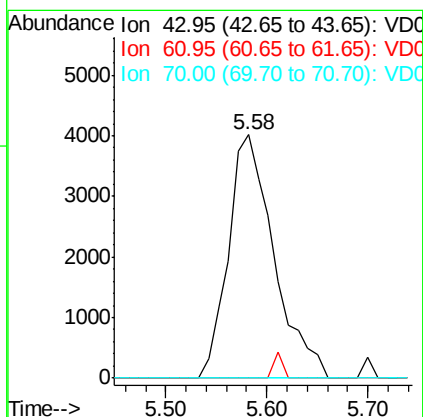
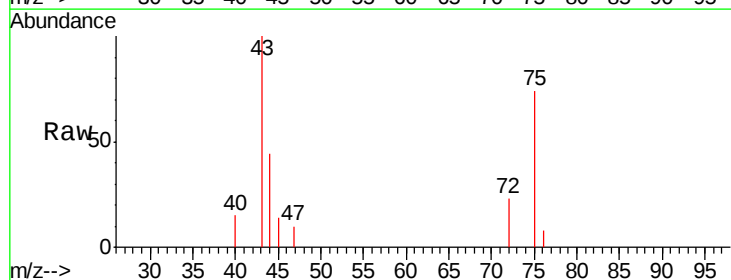
Instrument :
 MSVOA_D
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 P001-SS025-0006-01RE

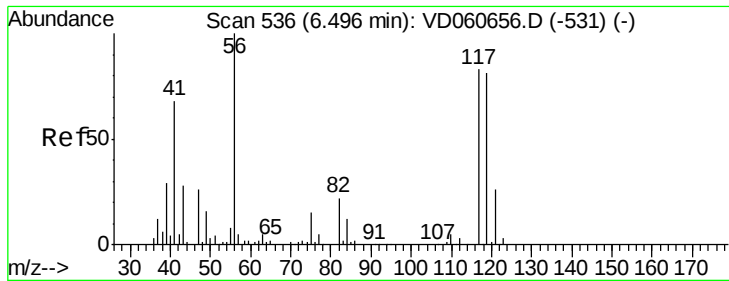
Tgt Ion: 75 Resp: 5737
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.9 56.7#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: 20.529 ug/l
 RT: 5.58 min Scan# 443
 Delta R.T. -0.12 min
 Lab File: VD060737.D
 Acq: 27 Dec 2018 20:14

Tgt Ion: 43 Resp: 12566
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.8 17.6#
 70 0.0 5.8 8.6#

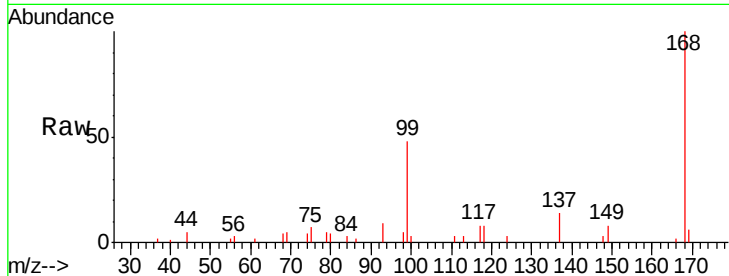




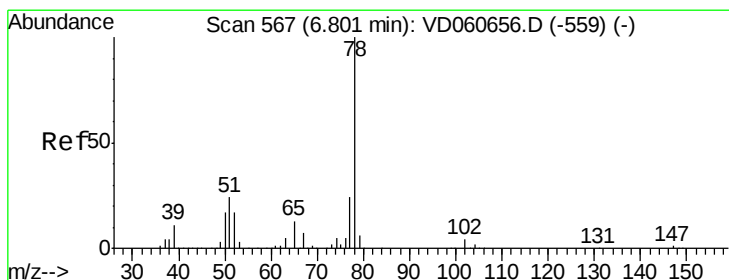
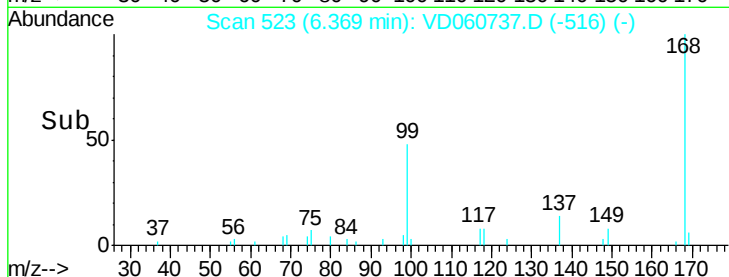
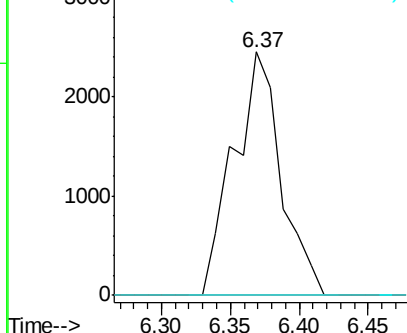
#38
Carbon Tetrachloride
Concen: 4.523 ug/l
RT: 6.37 min Scan# 523
Delta R.T. -0.13 min
Lab File: VD060737.D
Acq: 27 Dec 2018 20:14

Instrument :
MSVOA_D
ClientSampleId :
P001-SS025-0006-01RE

Tgt Ion: 117 Resp: 5840
Ion Ratio Lower Upper
117 100
119 0.0 77.0 115.4#
121 0.0 24.7 37.1#

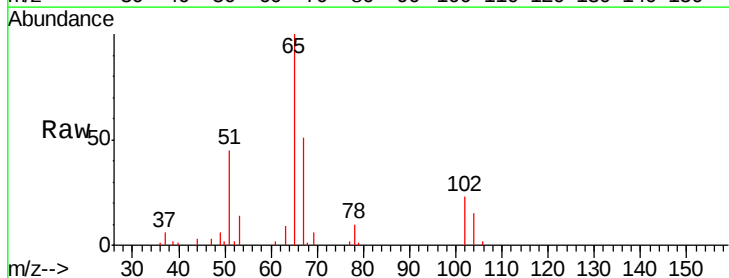


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

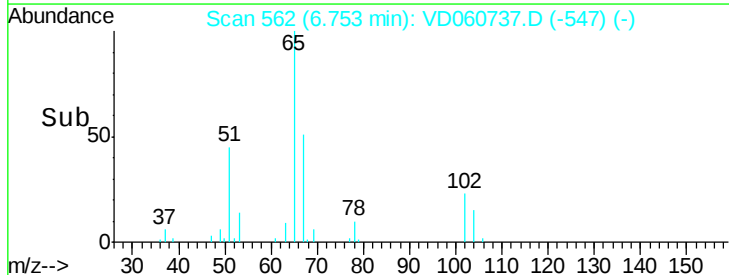
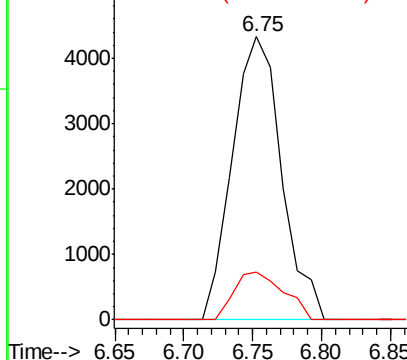


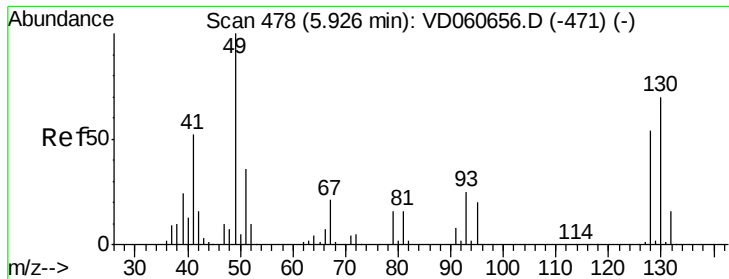
#40
Benzene
Concen: 2.848 ug/l
RT: 6.75 min Scan# 562
Delta R.T. -0.05 min
Lab File: VD060737.D
Acq: 27 Dec 2018 20:14

Tgt Ion: 78 Resp: 10765
Ion Ratio Lower Upper
78 100
77 16.8 19.2 28.8#



Abundance Ion 77.95 (77.65 to 78.65): V
Ion 76.95 (76.65 to 77.65): V





#41

Methacrylonitrile

Concen: 1.344 ug/l

RT: 5.93 min Scan# 478

Delta R.T. 0.00 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

P001-SS025-0006-01RE

Tgt Ion: 41 Resp: 455

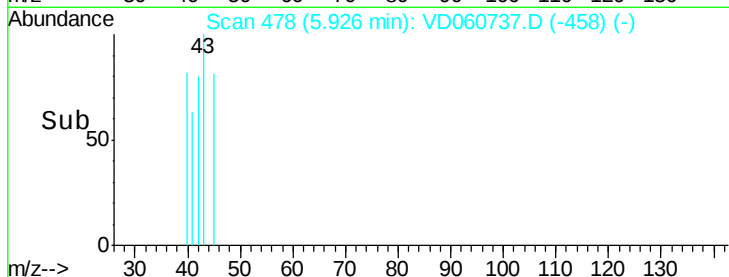
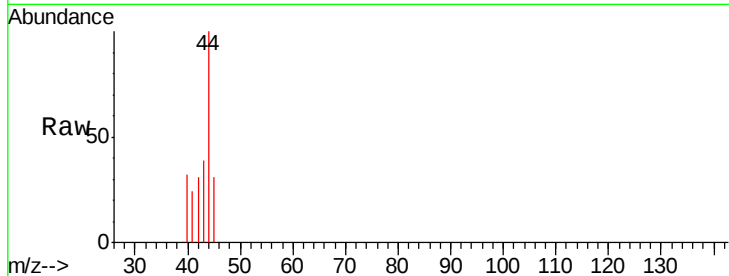
Ion Ratio Lower Upper

41 100

39 0.0 37.6 56.4#

67 0.0 33.0 49.6#

52 0.0 15.5 23.3#

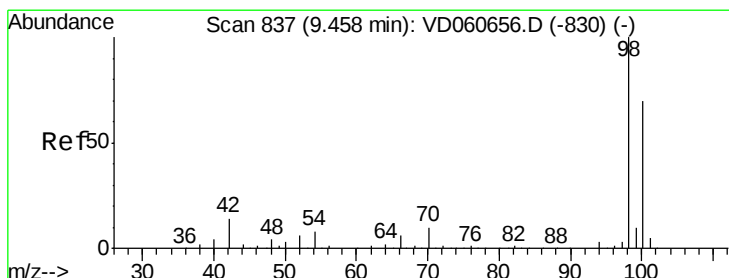
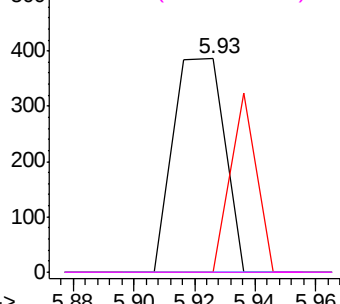


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.42 min Scan# 833

Delta R.T. -0.04 min

Lab File: VD060737.D

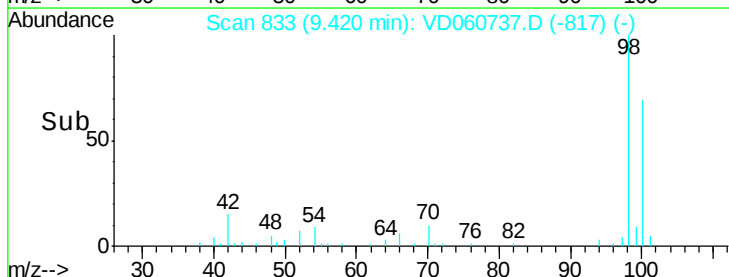
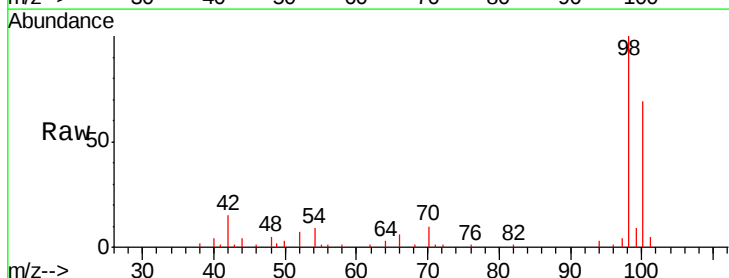
Acq: 27 Dec 2018 20:14

Tgt Ion: 98 Resp: 129827

Ion Ratio Lower Upper

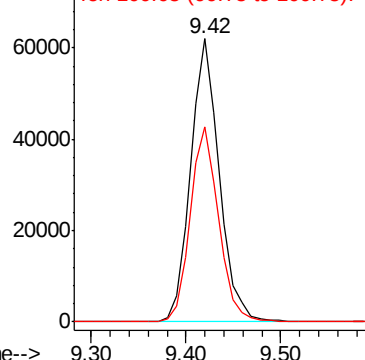
98 100

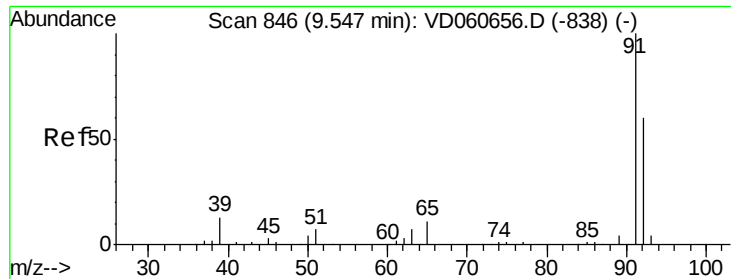
100 68.7 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 5.395 ug/l

RT: 9.52 min Scan# 843

Delta R.T. -0.03 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

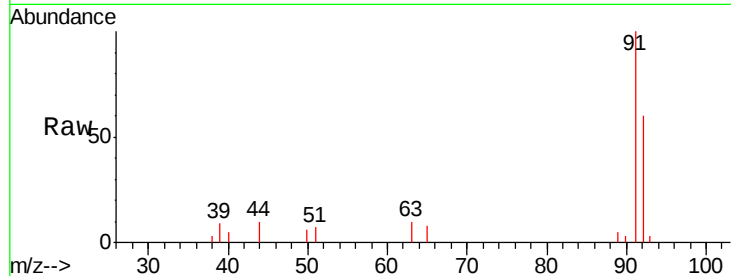
P001-SS025-0006-01RE

Tgt Ion: 92 Resp: 12787

Ion Ratio Lower Upper

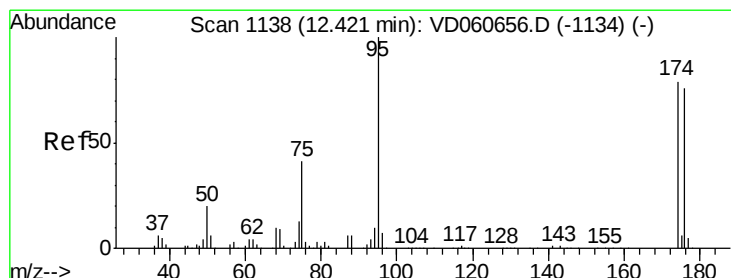
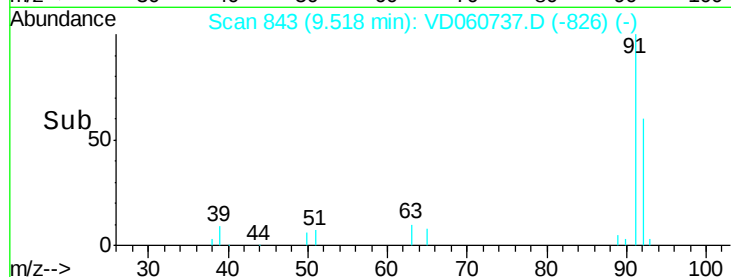
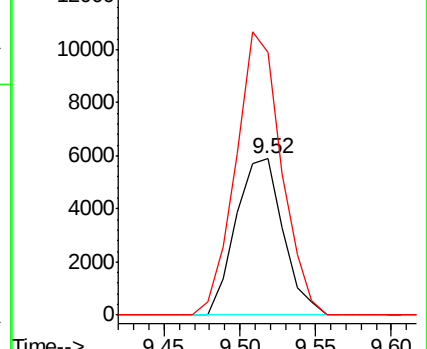
92 100

91 168.0 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 1136

Delta R.T. -0.02 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

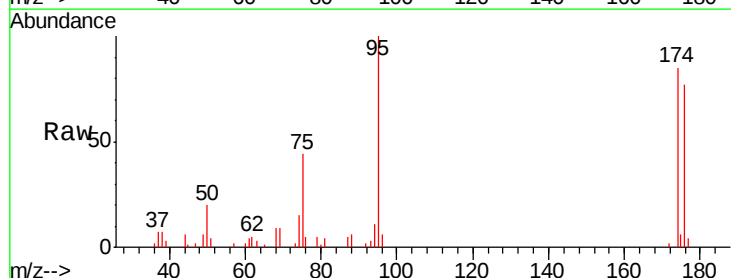
Tgt Ion: 95 Resp: 32167

Ion Ratio Lower Upper

95 100

174 85.5 0.0 158.2

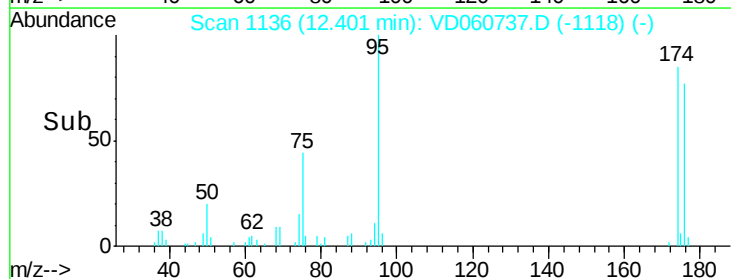
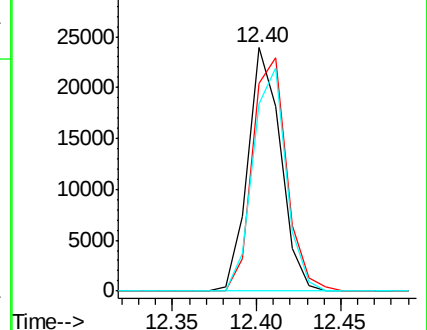
176 76.8 0.0 152.4

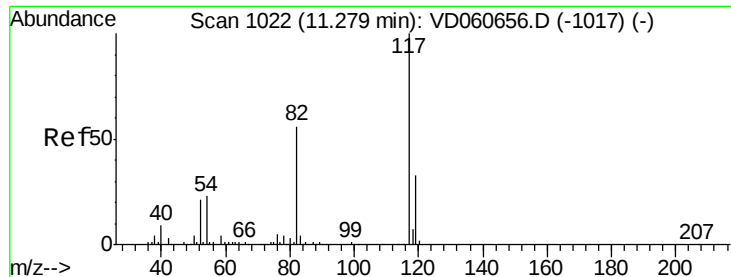


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

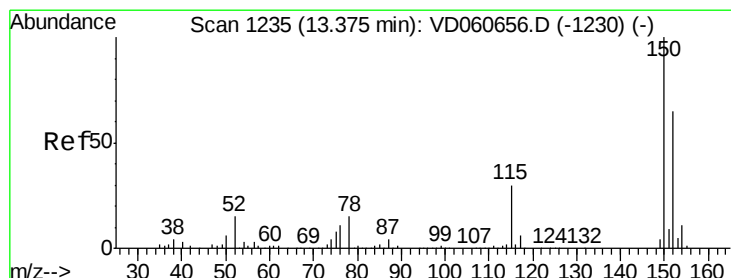
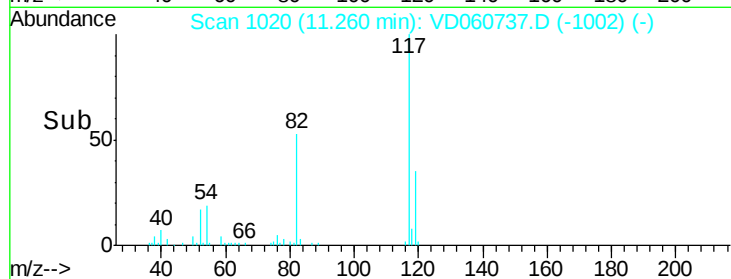
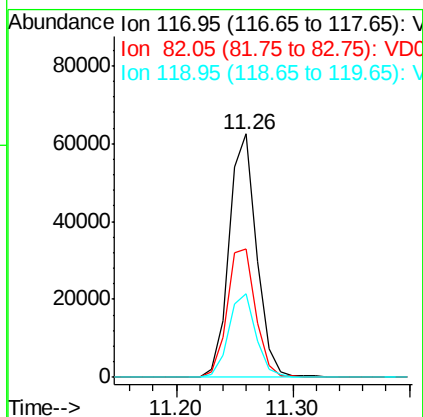
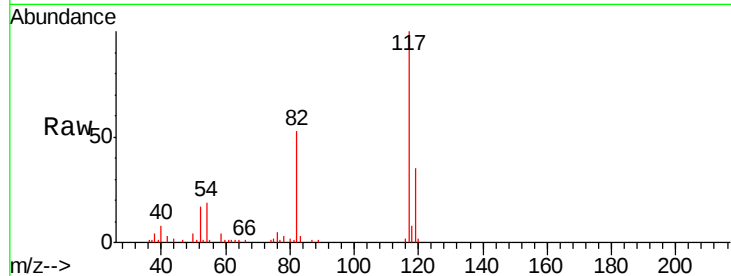




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.26 min Scan# 1020
Delta R.T. -0.02 min
Lab File: VD060737.D
Acq: 27 Dec 2018 20:14

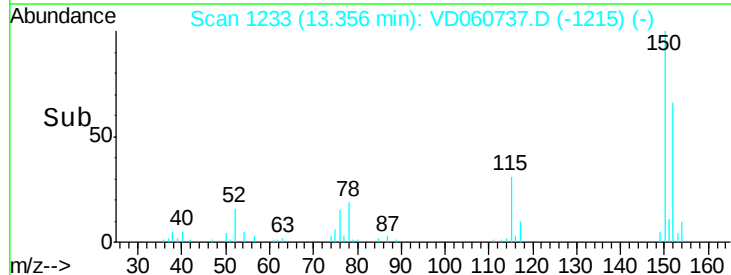
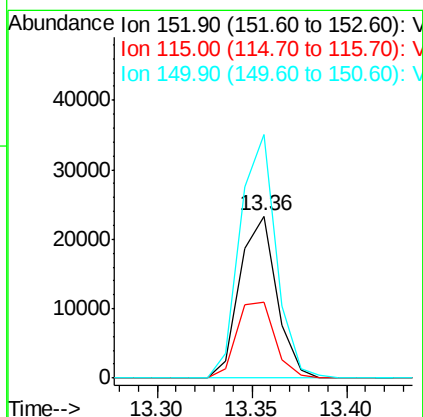
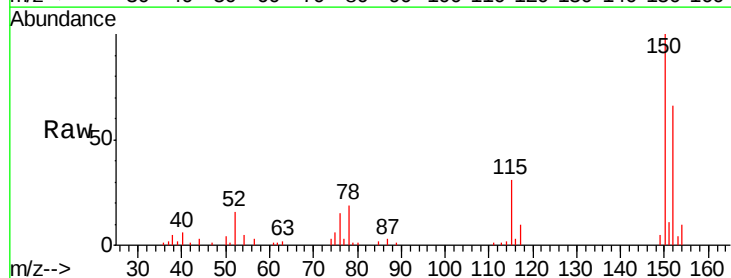
Instrument :
MSVOA_D
ClientSampleId :
P001-SS025-0006-01RE

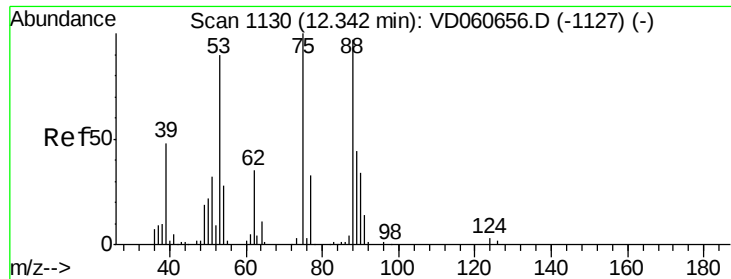
Tgt Ion:117 Resp: 102088
Ion Ratio Lower Upper
117 100
82 52.5 44.5 66.7
119 34.6 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1233
Delta R.T. -0.02 min
Lab File: VD060737.D
Acq: 27 Dec 2018 20:14

Tgt Ion:152 Resp: 31467
Ion Ratio Lower Upper
152 100
115 46.7 24.1 72.3
150 150.6 0.0 315.0





#81

trans-1,4-Dichloro-2-butene

Concen: 136.910 ug/l

RT: 12.40 min Scan# 1136

Delta R.T. 0.06 min

Lab File: VD060737.D

Acq: 27 Dec 2018 20:14

Instrument :

MSVOA_D

ClientSampleId :

P001-SS025-0006-01RE

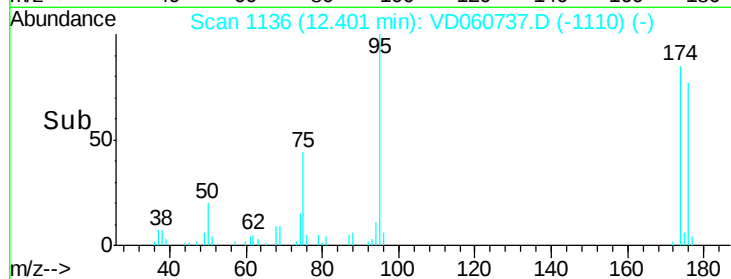
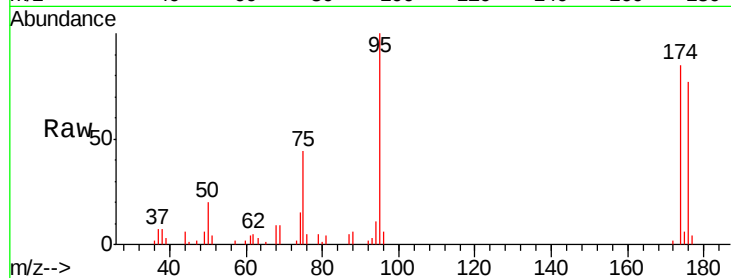
Tgt Ion: 75 Resp: 13553

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

89 0.0 35.1 52.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

