

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058307.D
 Acq On : 22 Jun 2018 20:15
 Operator : VA/AP
 Sample : J3663-10
 Misc : 5.41g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB470-23-25-180618

Quant Time: Jun 22 22:20:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	644644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	840598	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.69	117	679894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	343530	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	359864	55.27	ug/l	0.00
Spiked Amount						
			Recovery	=	110.54%	
35) Dibromofluoromethane	5.54	113	368359	53.84	ug/l	-0.01
Spiked Amount						
			Recovery	=	107.68%	
50) Toluene-d8	8.70	98	875056	52.87	ug/l	-0.01
Spiked Amount						
			Recovery	=	105.74%	
62) 4-Bromofluorobenzene	11.93	95	371481	54.94	ug/l	0.00
Spiked Amount						
			Recovery	=	109.88%	

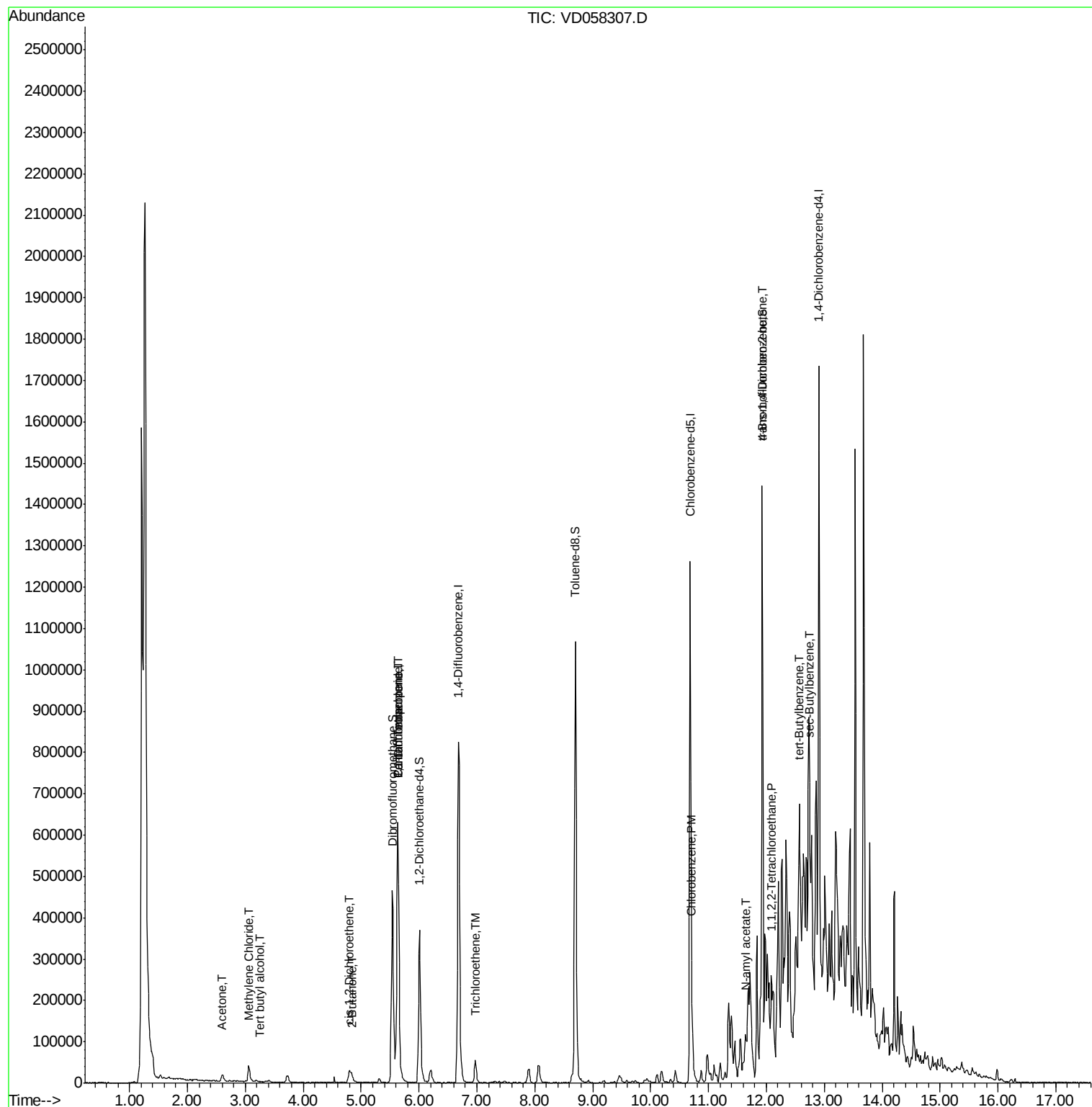
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	202	Below Cal	#	43
3) Chloromethane	1.53	50	280	Below Cal	#	43
5) Bromomethane	1.80	94	204	Below Cal	#	3
11) Tert butyl alcohol	3.24	59	532	2.477	ug/l #	78
16) Acetone	2.60	43	32137	36.089	ug/l #	88
20) Methylene Chloride	3.06	84	17343	2.979	ug/l	96
25) 2-Butanone	4.84	43	7048	3.631	ug/l #	87
27) cis-1,2-Dichloroethene	4.79	96	15531	2.568	ug/l	77
31) Cyclohexane	5.63	56	14986	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	53803	6.470	ug/l #	51
38) Carbon Tetrachloride	5.64	117	52263	6.325	ug/l #	16
44) Trichloroethene	6.98	130	20764	3.491	ug/l	88
65) Chlorobenzene	10.72	112	68085	5.354	ug/l	100
74) N-amyl acetate	11.65	43	48185	6.065	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.08	83	11603	2.426	ug/l #	88
81) trans-1,4-Dichloro-2-buten	11.93	75	176734	144.476	ug/l #	1
82) 4-Chlorotoluene	12.33	91	5557	Below Cal		93
83) tert-Butylbenzene	12.58	119	71123	3.860	ug/l	96
85) sec-Butylbenzene	12.75	105	26351	1.220	ug/l #	65

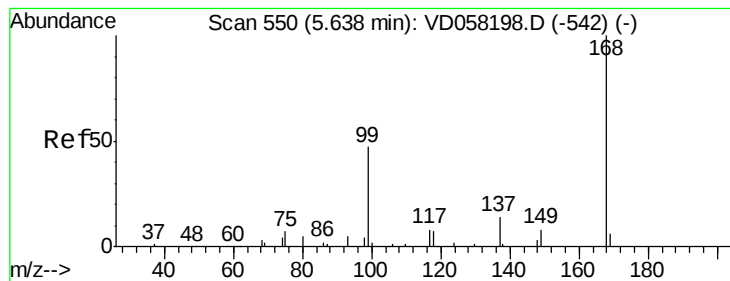
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

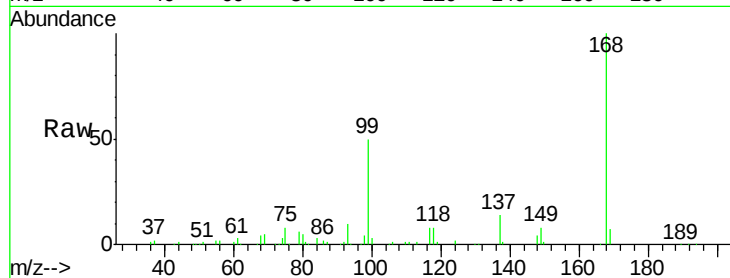
WP021SB470-23-25-180618

Tot Ion:168 Resp: 644644

Ion Ratio Lower Upper

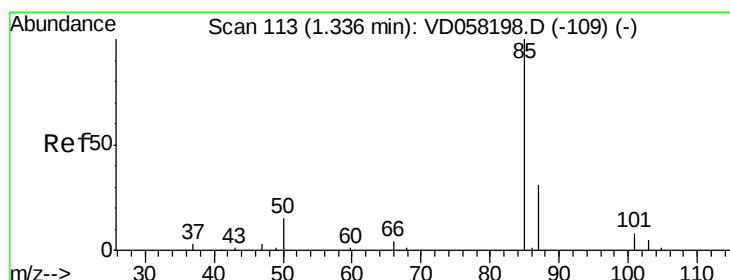
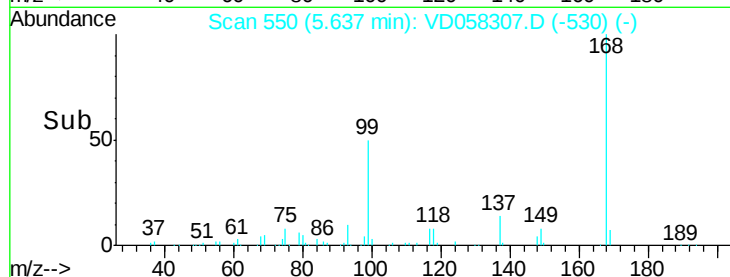
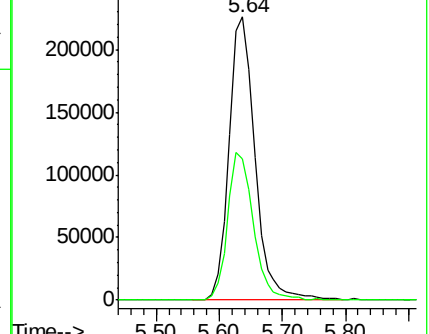
168 100

99 49.7 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.33 min Scan# 113

Delta R.T. -0.00 min

Lab File: VD058307.D

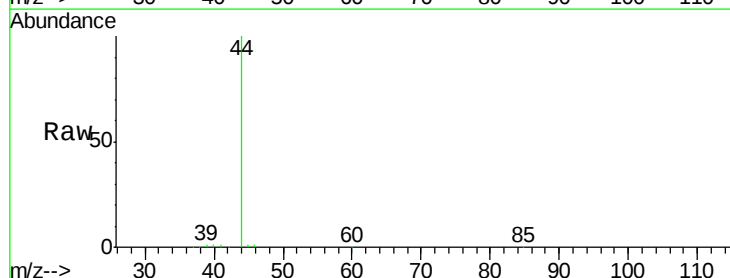
Acq: 22 Jun 2018 20:15

Tgt Ion: 85 Resp: 202

Ion Ratio Lower Upper

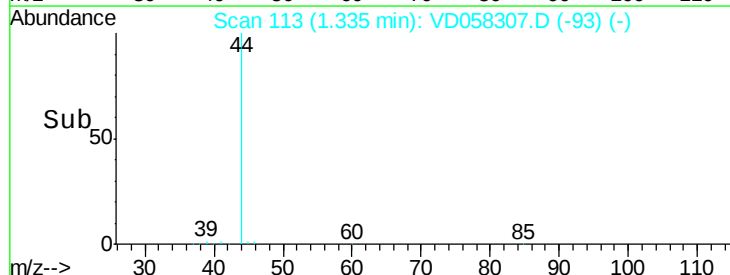
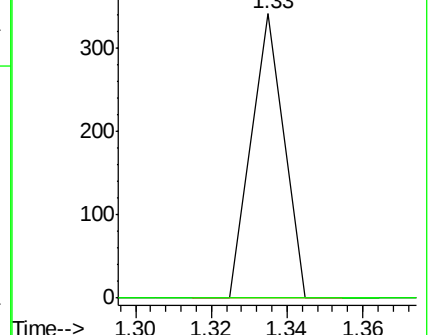
85 100

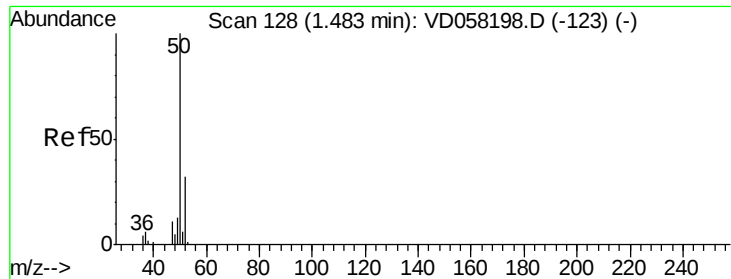
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.53 min Scan# 133

Delta R.T. 0.05 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

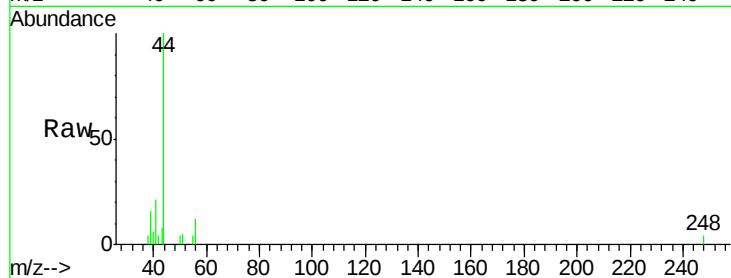
WP021SB470-23-25-180618

Tot Ion: 50 Resp: 280

Ion Ratio Lower Upper

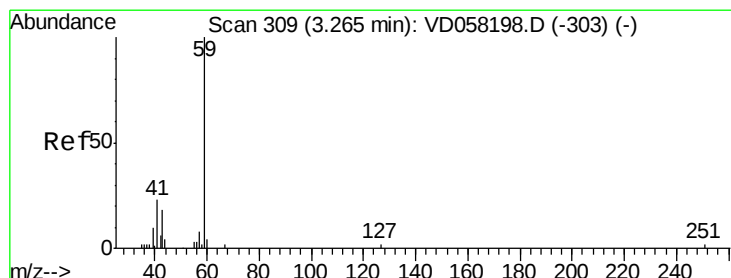
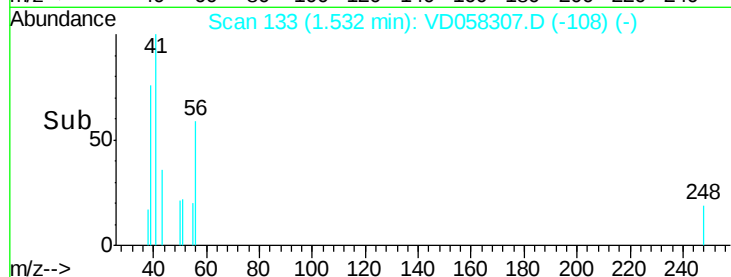
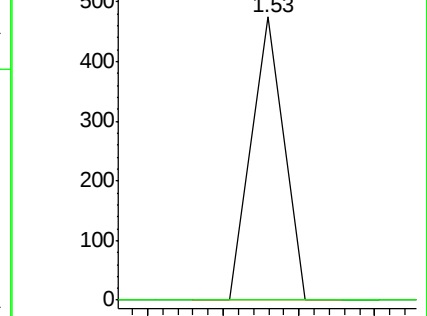
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#11

Tert butyl alcohol

Concen: 2.477 ug/l

RT: 3.24 min Scan# 307

Delta R.T. -0.02 min

Lab File: VD058307.D

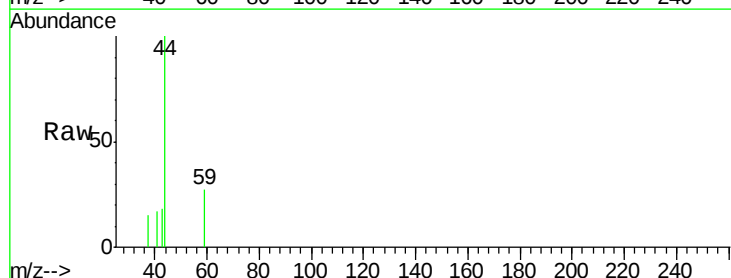
Acq: 22 Jun 2018 20:15

Tgt Ion: 59 Resp: 532

Ion Ratio Lower Upper

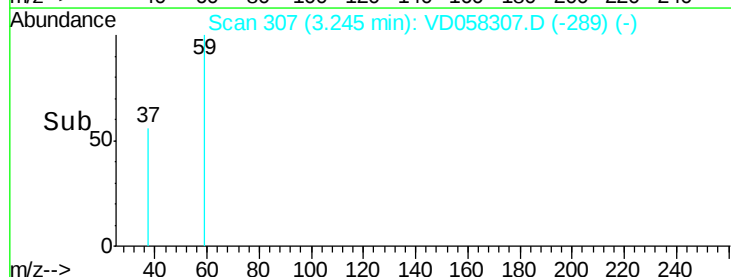
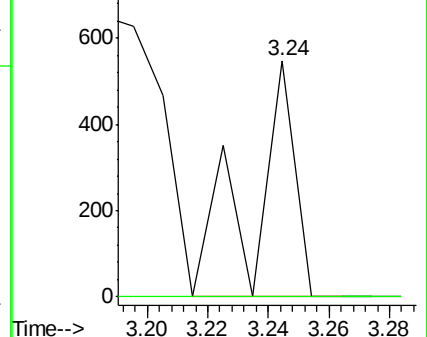
59 100

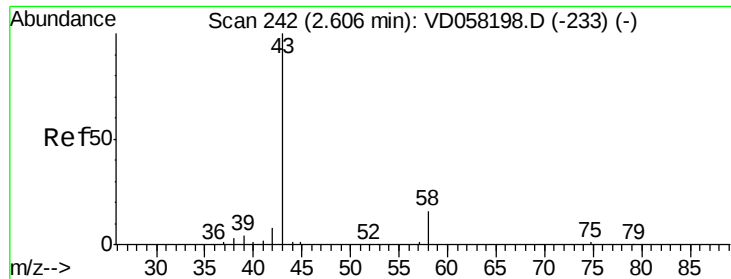
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 36.089 ug/l

RT: 2.60 min Scan# 242

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

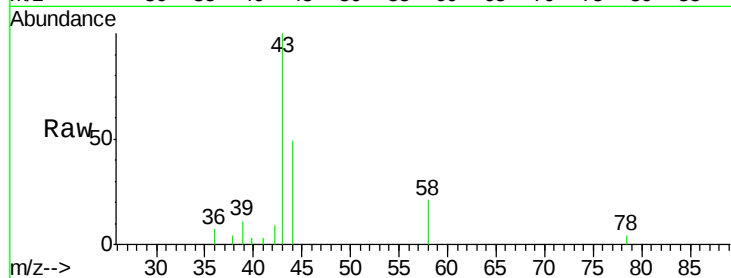
WP021SB470-23-25-180618

Tot Ion: 43 Resp: 32137

Ion Ratio Lower Upper

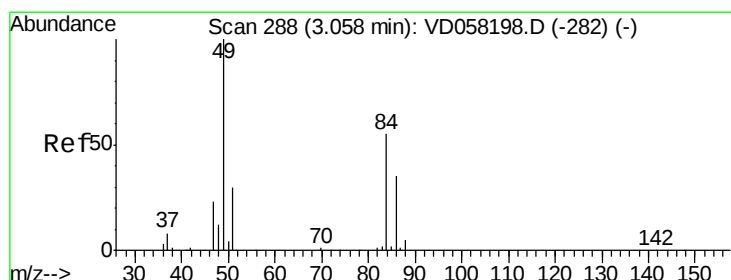
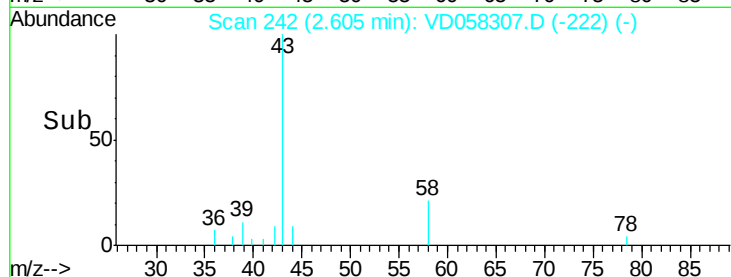
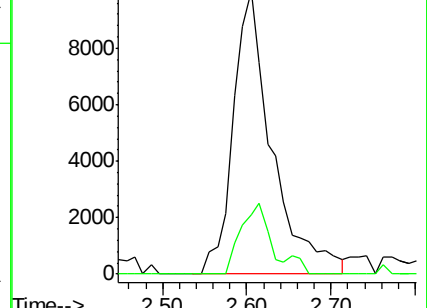
43 100

58 20.8 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.979 ug/l

RT: 3.06 min Scan# 288

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Tgt Ion: 84 Resp: 17343

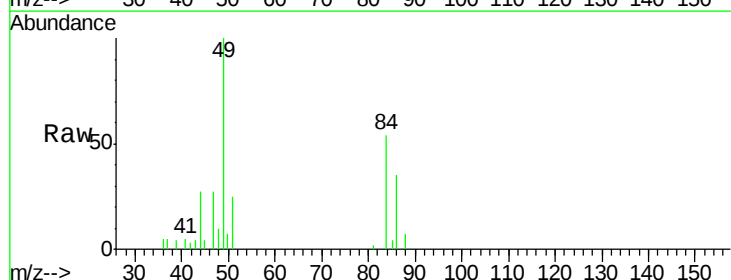
Ion Ratio Lower Upper

84 100

49 184.1 145.0 217.6

51 46.5 42.9 64.3

86 65.0 50.1 75.1

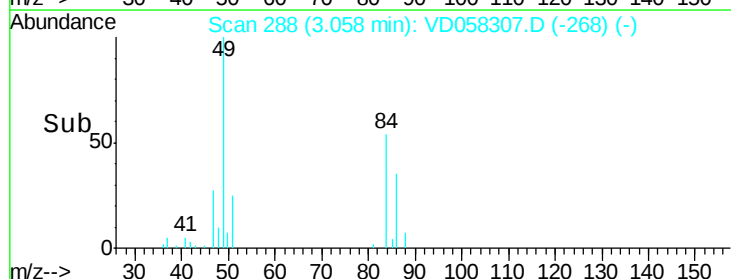
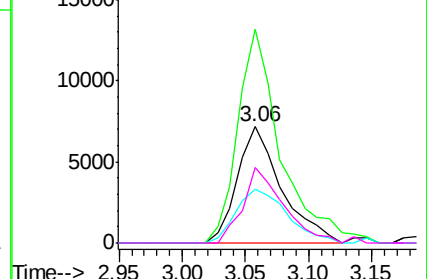


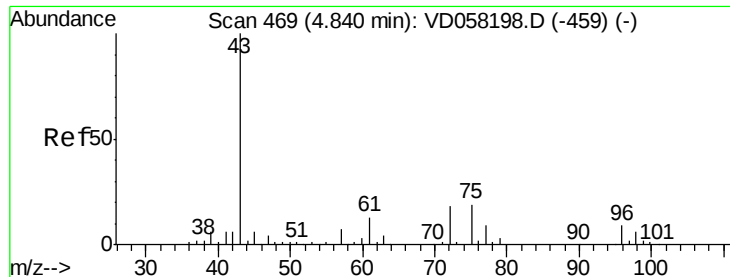
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 3.631 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

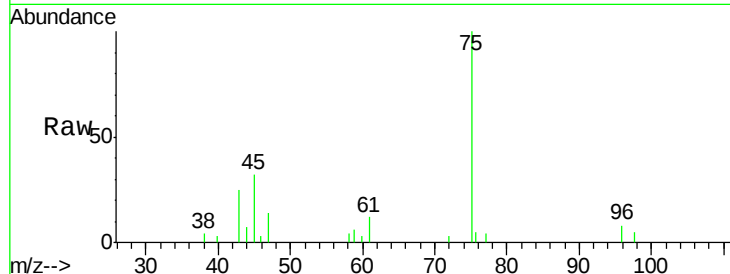
WP021SB470-23-25-180618

Tot Ion: 43 Resp: 7048

Ion Ratio Lower Upper

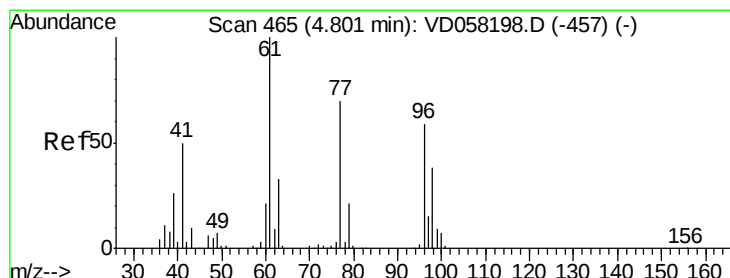
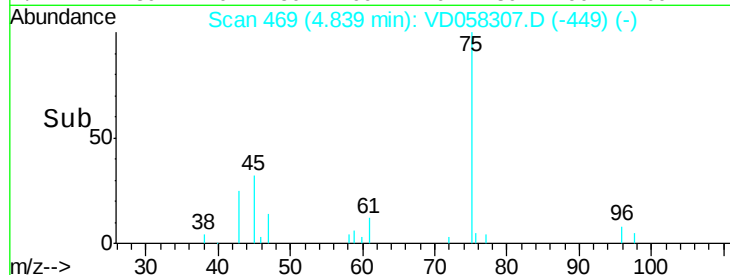
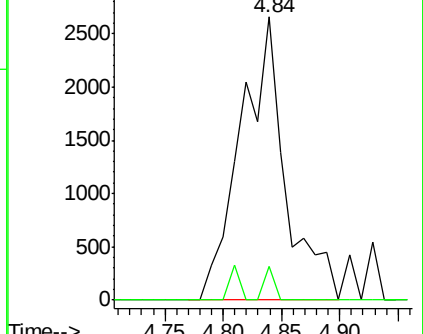
43 100

72 11.7 14.1 21.1#



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: 2.568 ug/l

RT: 4.79 min Scan# 464

Delta R.T. -0.01 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

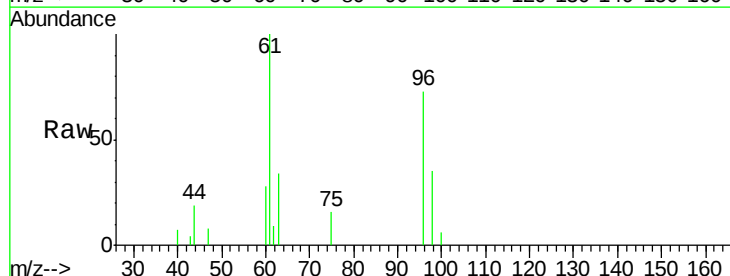
Tgt Ion: 96 Resp: 15531

Ion Ratio Lower Upper

96 100

61 137.7 0.0 338.6

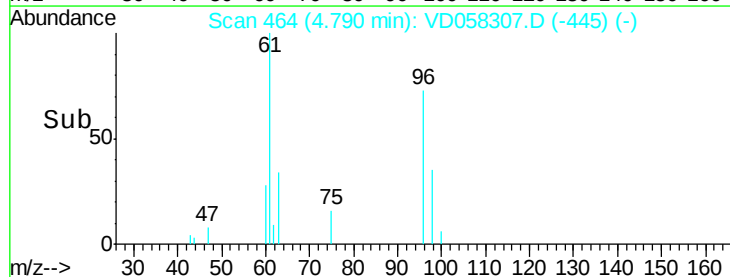
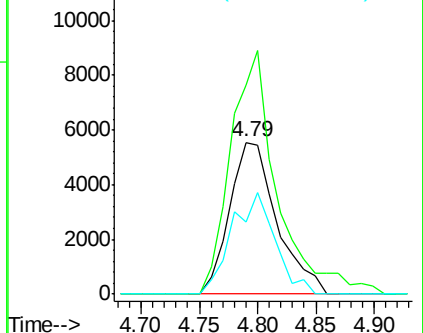
98 47.8 0.0 130.2

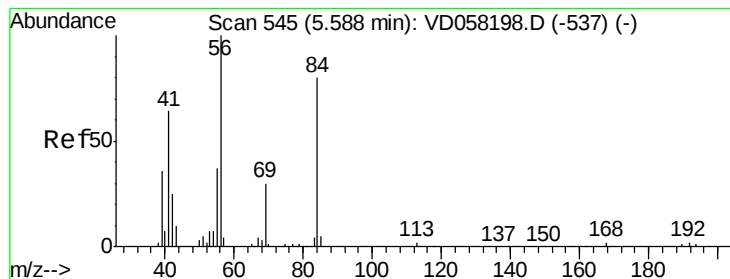


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.63 min Scan# 549

Delta R.T. 0.04 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

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ClientSampleId :

WP021SB470-23-25-180618

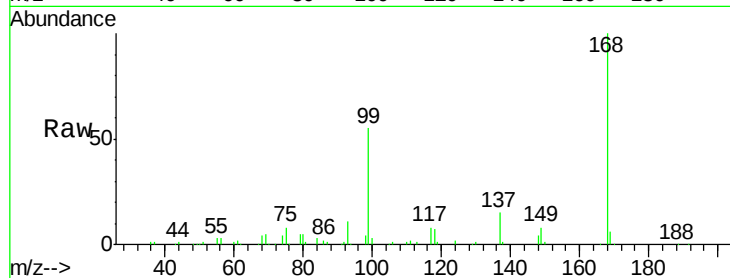
Tot Ion: 56 Resp: 14986

Ion Ratio Lower Upper

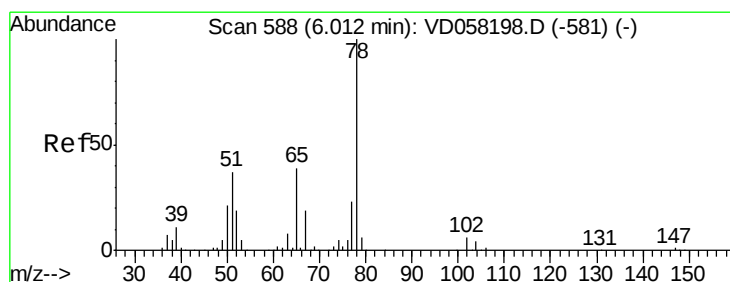
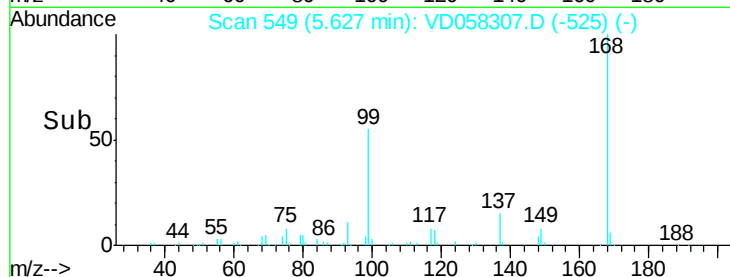
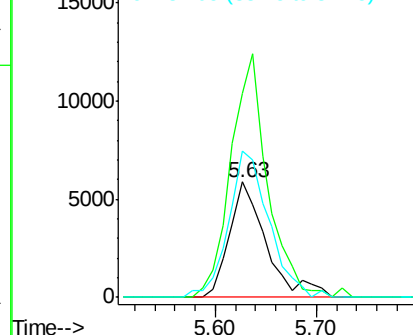
56 100

69 176.6 23.6 35.4#

84 127.5 65.2 97.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.00 min

Lab File: VD058307.D

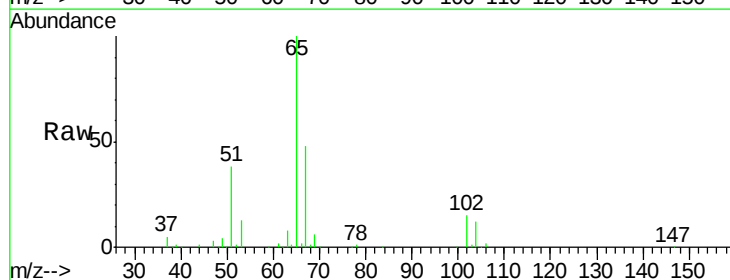
Acq: 22 Jun 2018 20:15

Tgt Ion: 65 Resp: 359864

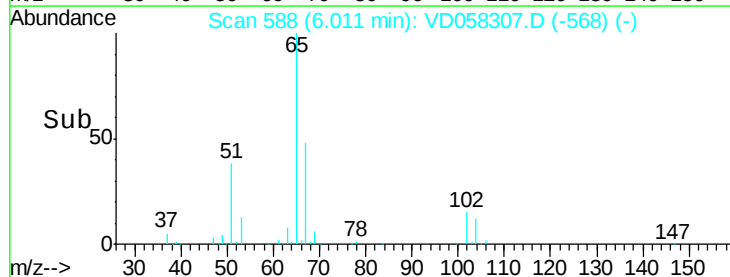
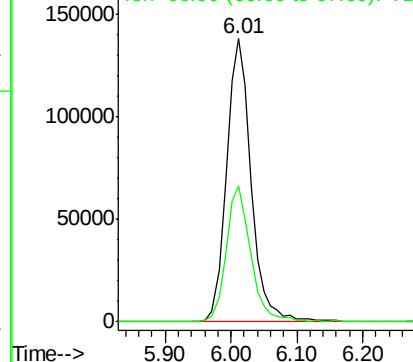
Ion Ratio Lower Upper

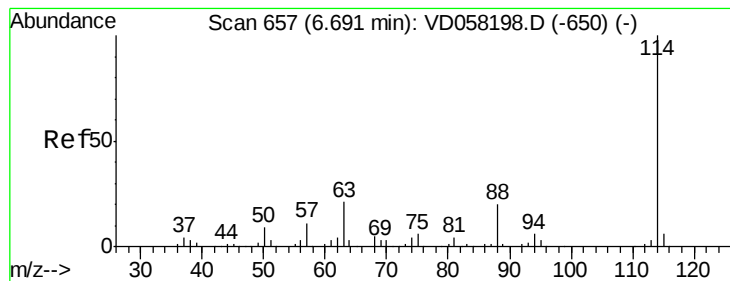
65 100

67 48.3 0.0 97.8



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: 6.68 min Scan# 656

Delta R.T. -0.01 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

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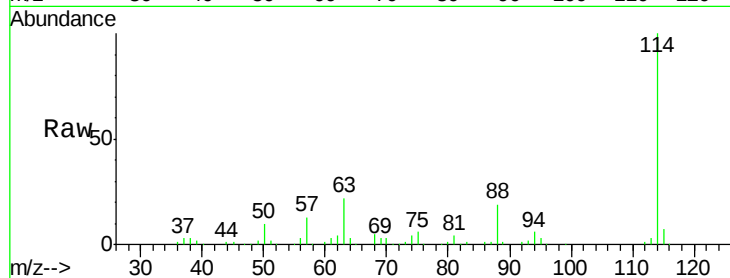
Tot Ion:114 Resp: 840598

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.6

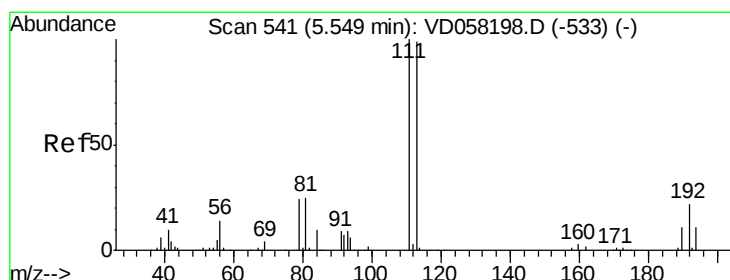
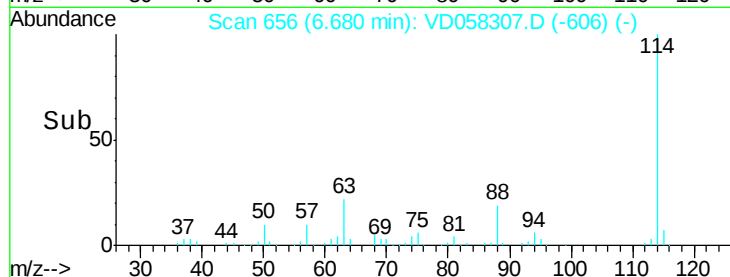
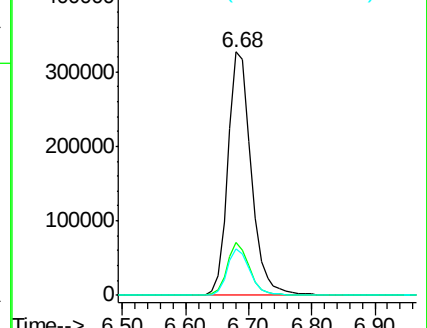
88 19.1 0.0 40.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.01 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

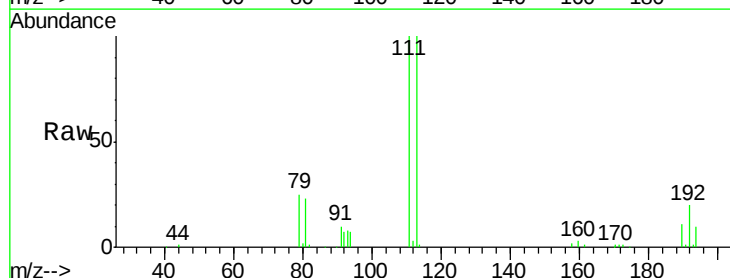
Tgt Ion:113 Resp: 368359

Ion Ratio Lower Upper

113 100

111 100.4 80.6 121.0

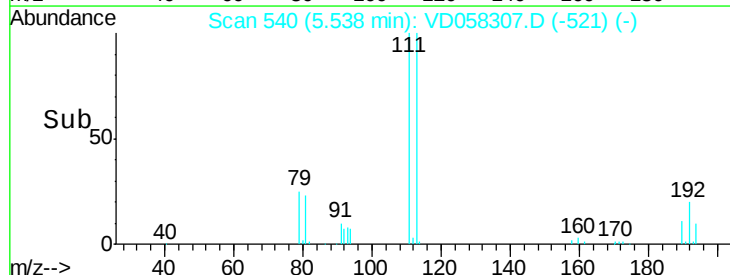
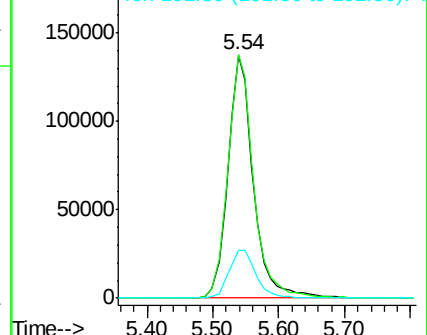
192 19.8 17.8 26.6

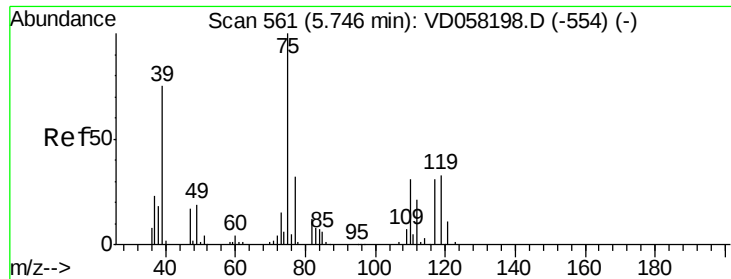


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

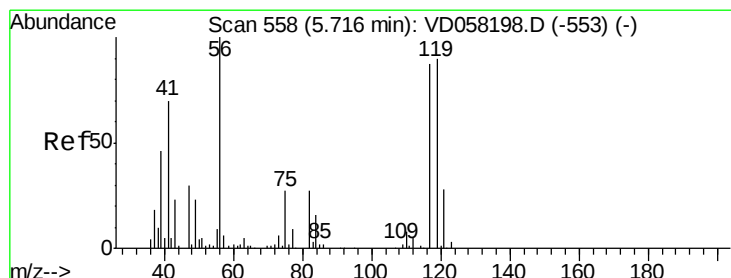
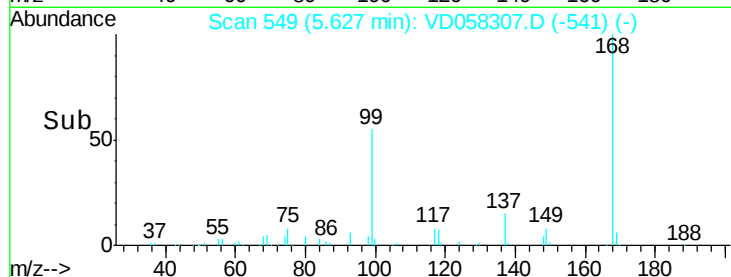
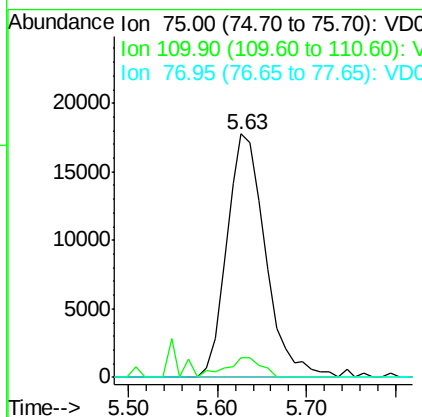
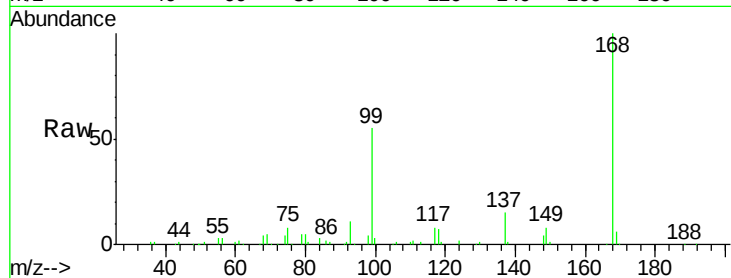




#36
 1,1-Dichloropropene
 Concen: 6.470 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.12 min
 Lab File: VD058307.D
 Acq: 22 Jun 2018 20:15

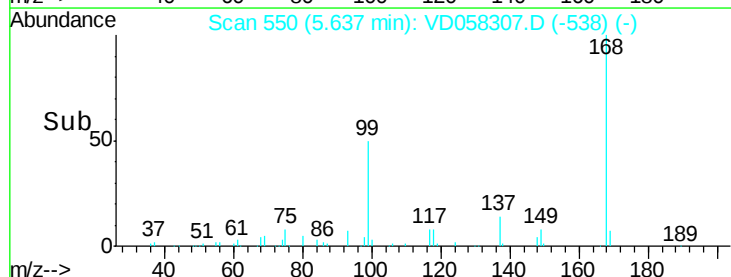
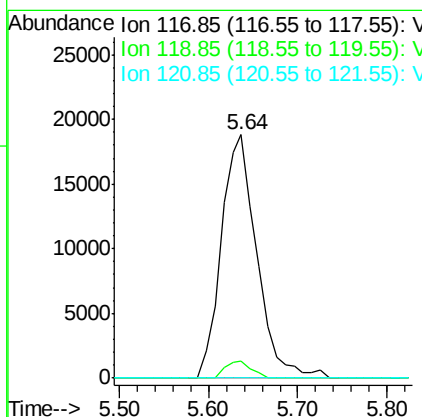
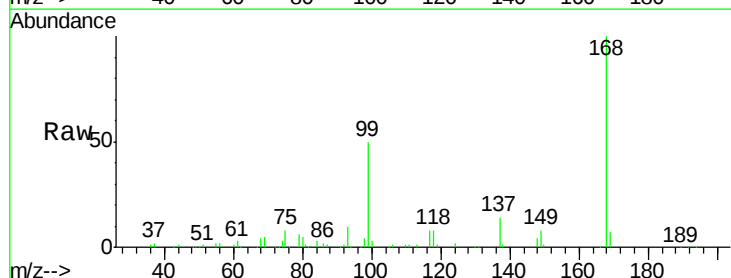
Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB470-23-25-180618

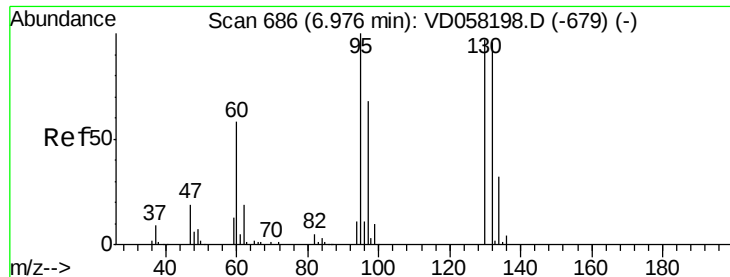
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.4	46.4#
77	0.0	25.4	38.2#



#38
 Carbon Tetrachloride
 Concen: 6.325 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.08 min
 Lab File: VD058307.D
 Acq: 22 Jun 2018 20:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	78.8	118.2#
121	0.0	25.0	37.6#





#44

Trichloroethene

Concen: 3.491 ug/l

RT: 6.98 min Scan# 686

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

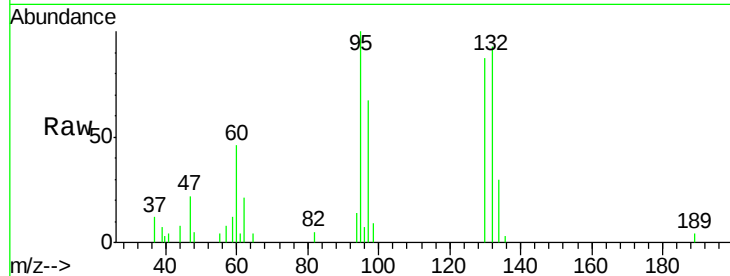
WP021SB470-23-25-180618

Tot Ion:130 Resp: 20764

Ion Ratio Lower Upper

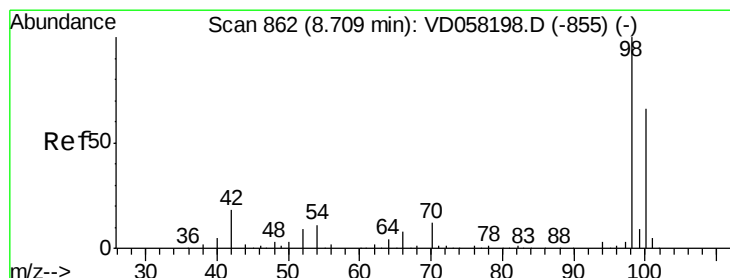
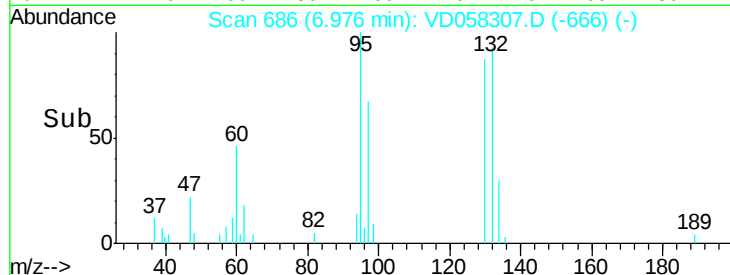
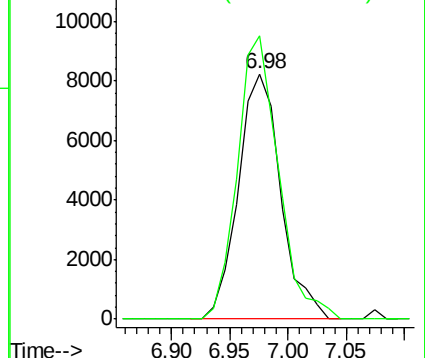
130 100

95 115.4 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058307.D

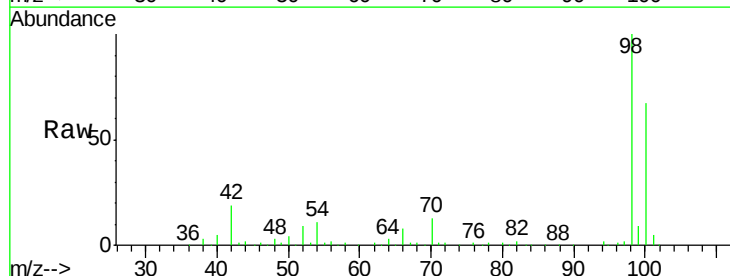
Acq: 22 Jun 2018 20:15

Tgt Ion: 98 Resp: 875056

Ion Ratio Lower Upper

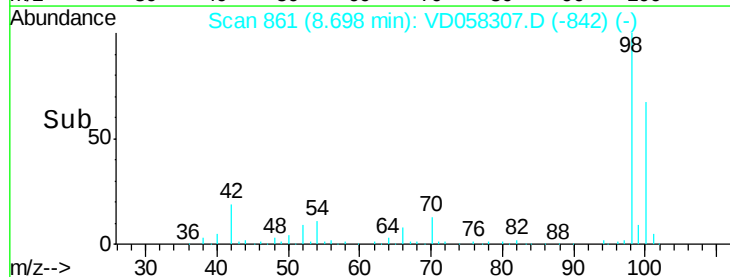
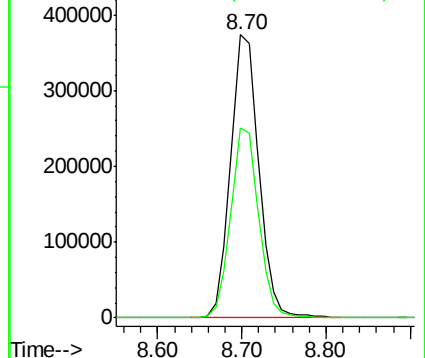
98 100

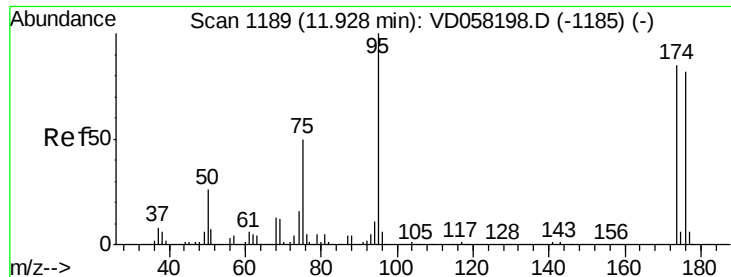
100 67.1 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-23-25-180618

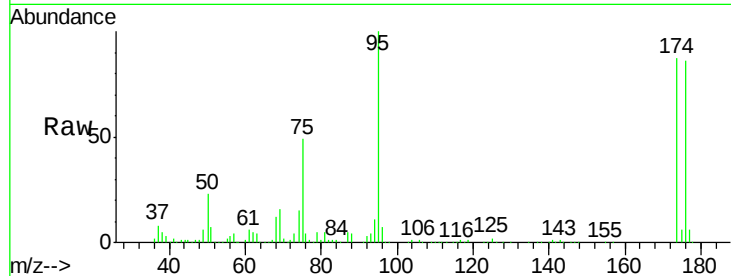
Tot Ion: 95 Resp: 371481

Ion Ratio Lower Upper

95 100

174 87.1 0.0 170.2

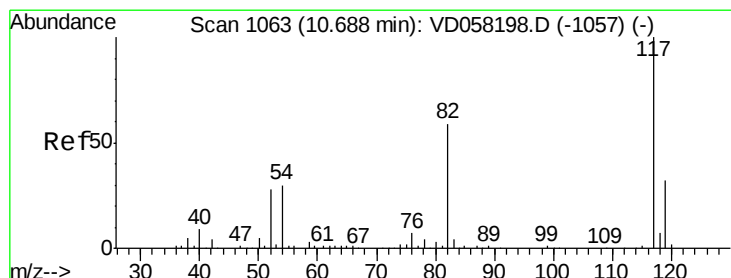
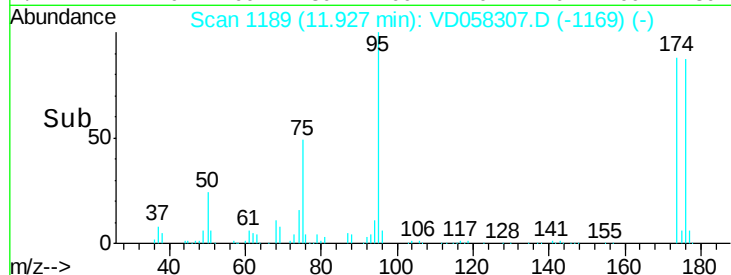
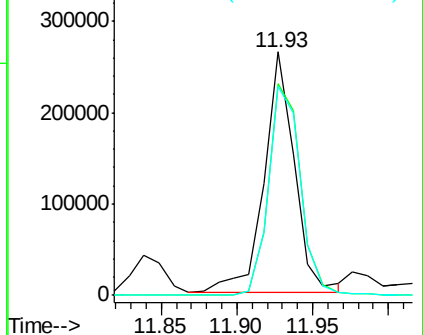
176 85.8 0.0 164.6



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: 10.69 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

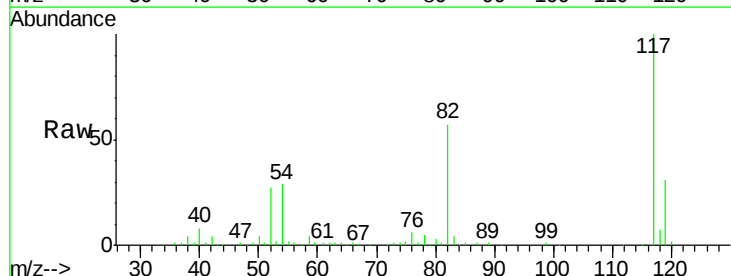
Tgt Ion: 117 Resp: 679894

Ion Ratio Lower Upper

117 100

82 57.3 47.0 70.6

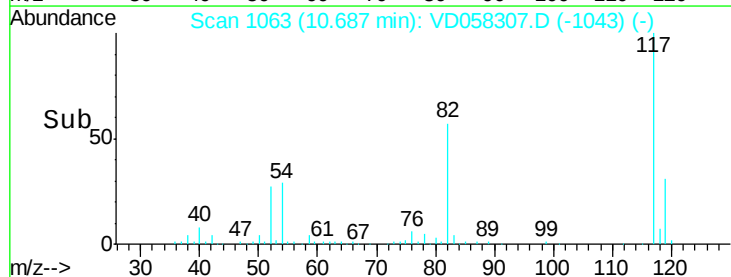
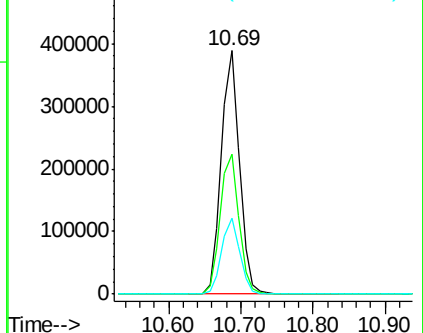
119 31.4 25.3 37.9

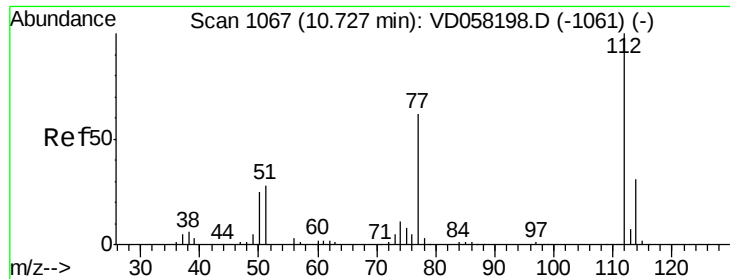


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

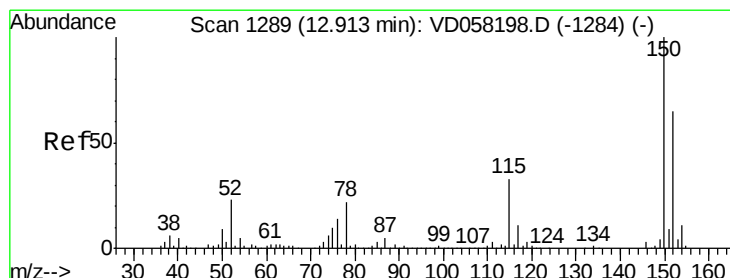
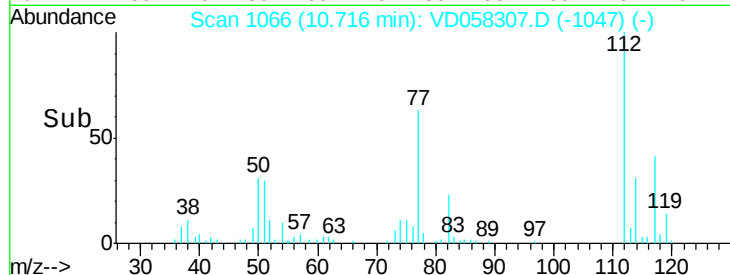
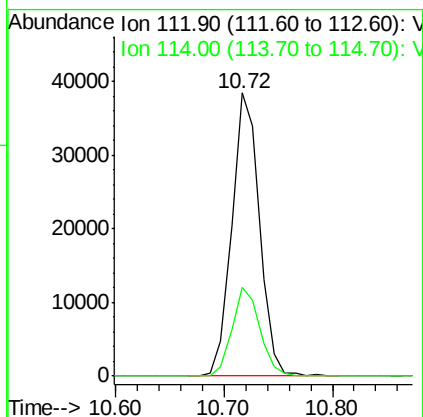
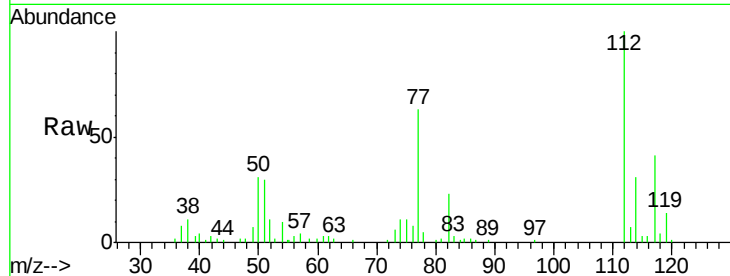




#65
Chlorobenzene
Concen: 5.354 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VD058307.D
Acq: 22 Jun 2018 20:15

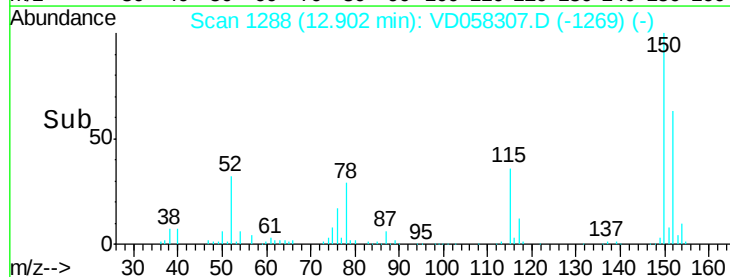
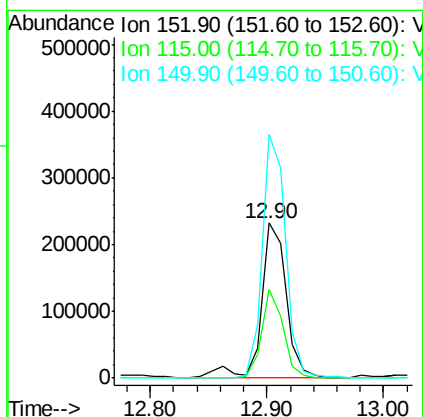
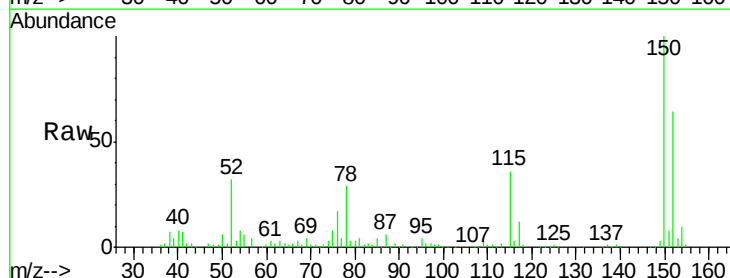
Instrument :
MSVOA_D
ClientSampleId :
WP021SB470-23-25-180618

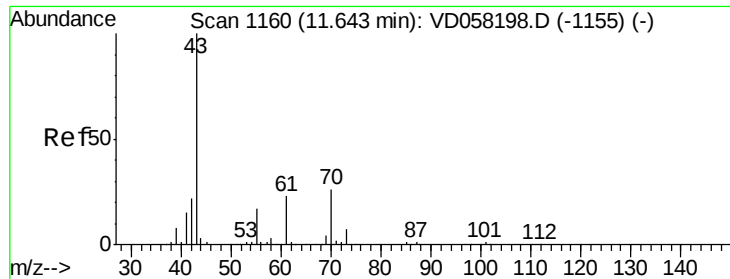
Tot Ion:112 Resp: 68085
Ion Ratio Lower Upper
112 100
114 31.2 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058307.D
Acq: 22 Jun 2018 20:15

Tgt Ion:152 Resp: 343530
Ion Ratio Lower Upper
152 100
115 57.3 25.1 75.3
150 157.2 0.0 308.8





#74

N-amvl acetate

Concen: 6.065 ug/l

RT: 11.65 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 43 Resp: 48185

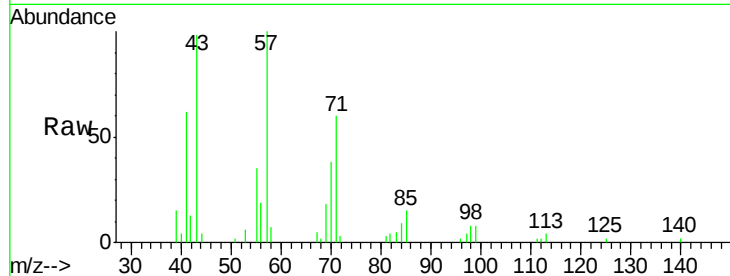
Ion Ratio Lower Upper

43 100

70 39.1 20.9 31.3#

55 35.7 13.5 20.3#

61 0.0 18.2 27.2#

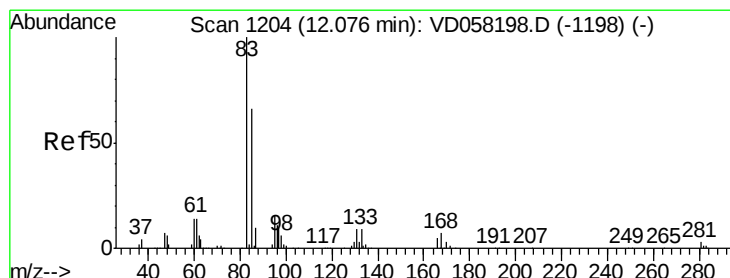
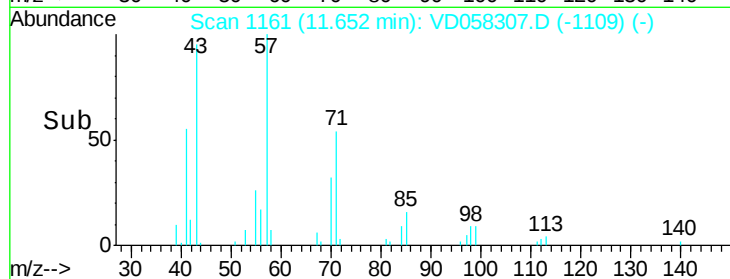
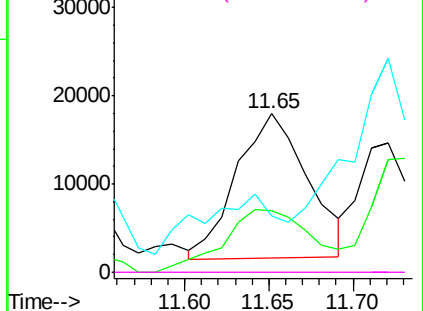


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 2.426 ug/l

RT: 12.08 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

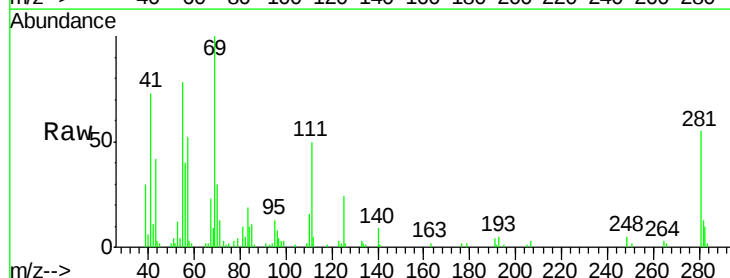
Tgt Ion: 83 Resp: 11603

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

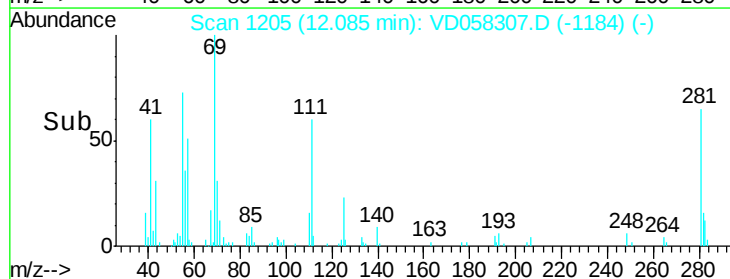
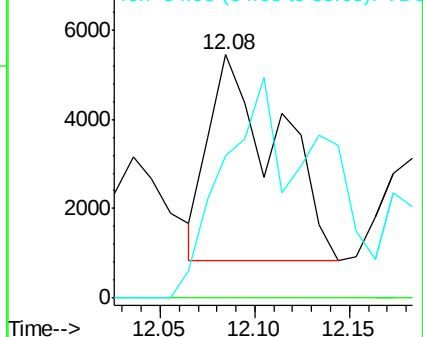
85 58.4 33.1 99.5

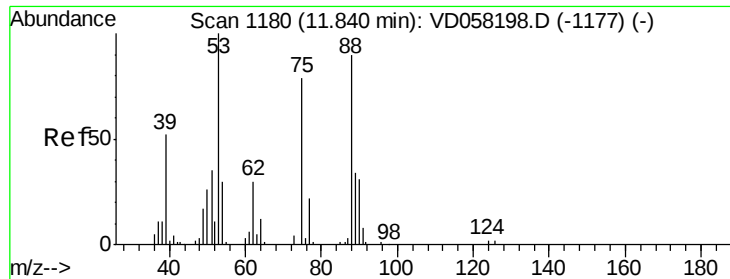


Abundance Ion 82.95 (82.65 to 83.65): VDC

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: 144.476 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-23-25-180618

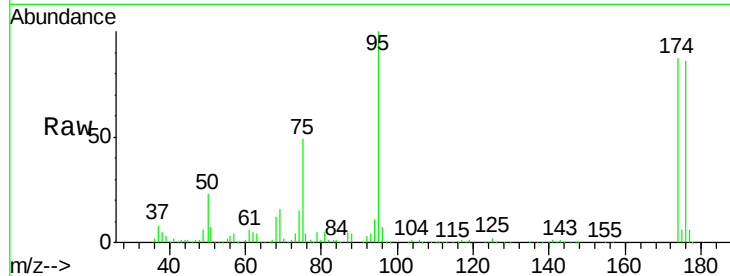
Tot Ion: 75 Resp: 176734

Ion Ratio Lower Upper

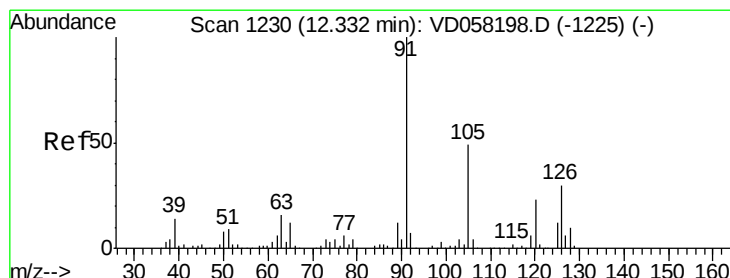
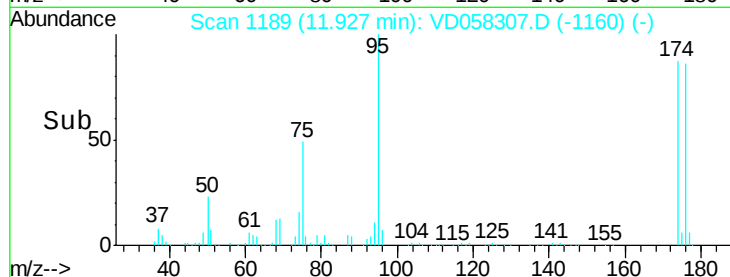
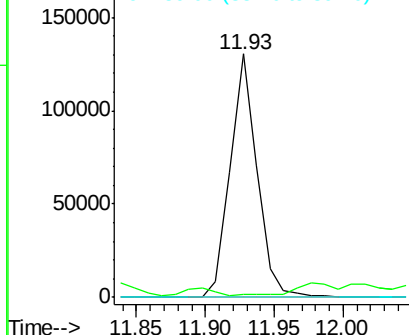
75 100

53 1.0 100.8 151.2#

89 0.0 34.6 52.0#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VD058307.D

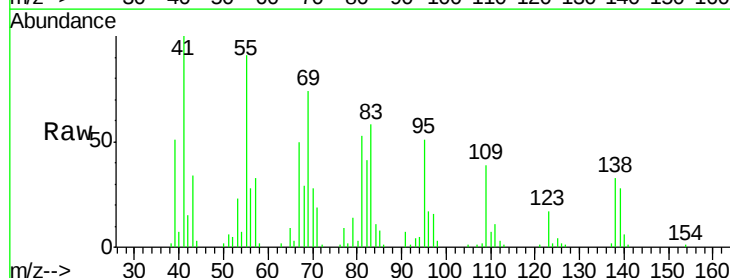
Acq: 22 Jun 2018 20:15

Tgt Ion: 91 Resp: 5557

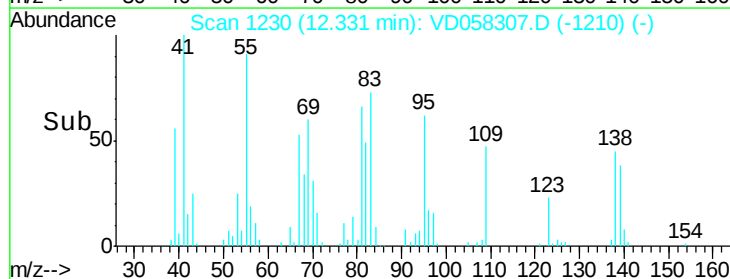
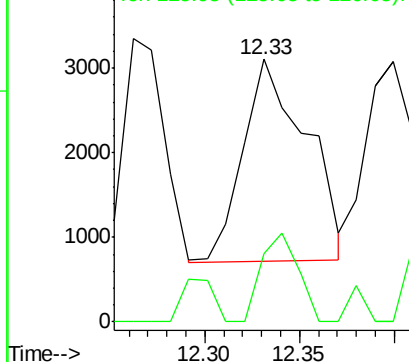
Ion Ratio Lower Upper

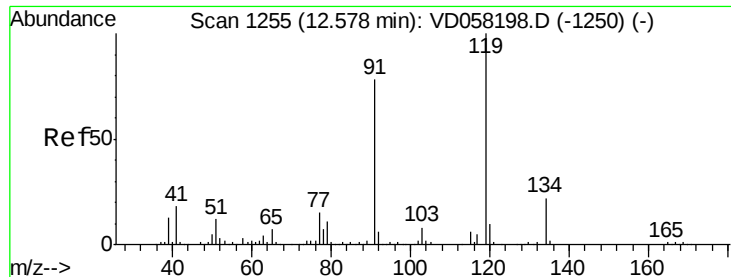
91 100

126 26.0 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 3.860 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VD058307.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-23-25-180618

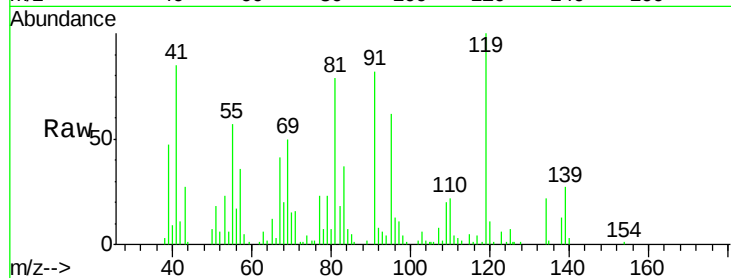
Tot Ion:119 Resp: 71123

Ion Ratio Lower Upper

119 100

91 82.1 38.9 116.6

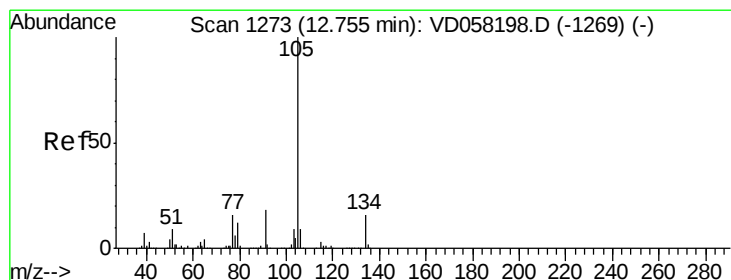
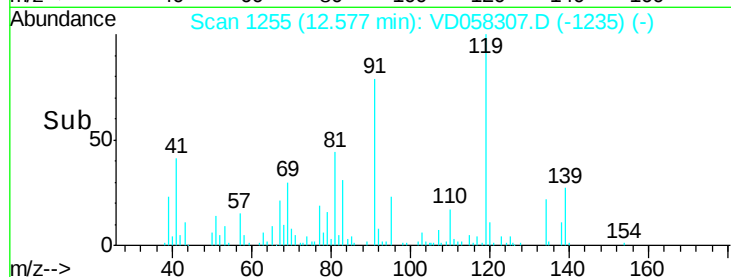
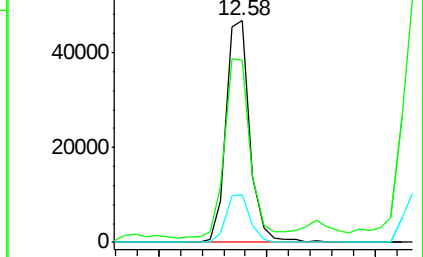
134 21.8 11.2 33.5



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#85

sec-Butylbenzene

Concen: 1.220 ug/l

RT: 12.75 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VD058307.D

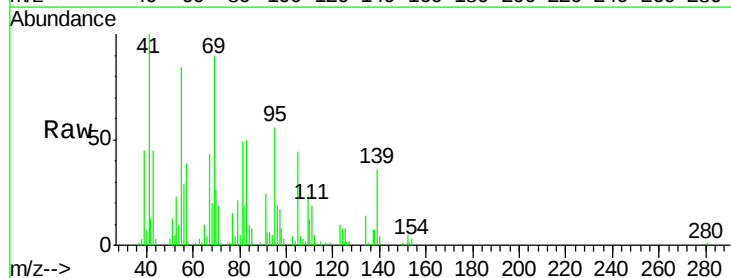
Acq: 22 Jun 2018 20:15

Tgt Ion:105 Resp: 26351

Ion Ratio Lower Upper

105 100

134 31.2 8.1 24.3#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

