

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058349.D
 Acq On : 23 Jun 2018 19:07
 Operator : VA/AP
 Sample : J3664-24
 Misc : 6.69g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:10:19 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	5.67	168	827340	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.72	114	1188067	50.00	ug/l	0.03
63) Chlorobenzene-d5	10.71	117	776056	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.91	152	414537	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	330840	39.59	ug/l	0.04
Spiked Amount			Recovery	=	79.18%	
35) Dibromofluoromethane	5.57	113	324107	33.52	ug/l	0.02
Spiked Amount			Recovery	=	67.04%	
50) Toluene-d8	8.74	98	604379	25.83	ug/l	0.03
Spiked Amount			Recovery	=	51.66%	
62) 4-Bromofluorobenzene	11.94	95	260506	27.26	ug/l	0.01
Spiked Amount			Recovery	=	54.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	239	Below Cal	#	43
3) Chloromethane	1.52	50	177	Below Cal	#	43
5) Bromomethane	1.89	94	201	Below Cal	#	3
6) Chloroethane	2.03	64	183	1.51	ug/l	41
9) 1,1,2-Trichlorotrifluoroet	2.58	101	152377	40.33	ug/l	94
11) Tert butyl alcohol	3.29	59	279	1.01	ug/l	78
12) 1,1-Dichloroethene	2.57	96	2060911	725.06	ug/l	91
13) Acrolein	2.46	56	211	1.34	ug/l	11
16) Acetone	2.63	43	33033	28.90	ug/l	96
18) Methyl Acetate	3.09	43	39921	16.38	ug/l	71
20) Methylene Chloride	3.09	84	1691031	621.23	ug/l	96
21) trans-1,2-Dichloroethene	3.42	96	7832	2.52	ug/l	71
24) 1,1-Dichloroethane	3.99	63	55574	3.93	ug/l	96
25) 2-Butanone	4.87	43	20542	8.25	ug/l	87
27) cis-1,2-Dichloroethene	4.83	96	190028	24.48	ug/l	91
28) Bromochloromethane	5.19	49	8165	1.29	ug/l	77
29) Tetrahydrofuran	5.22	42	1909	1.44	ug/l	46
30) Chloroform	5.34	83	269399	18.03	ug/l	89
31) Cyclohexane	5.65	56	33196	Below Cal	#	54
36) 1,1-Dichloropropene	5.67	75	69967	5.95	ug/l	51
37) Ethyl Acetate	4.87	43	20542	3.07	ug/l	1
38) Carbon Tetrachloride	5.76	117	98562	8.44	ug/l	91
39) Methylcyclohexane	7.39	83	76530	6.69	ug/l	1
40) Benzene	6.05	78	93255	3.33	ug/l	95
42) 1,2-Dichloroethane	6.15	62	51377	4.55	ug/l	98
44) Trichloroethene	7.00	130	6221593	740.05	ug/l	95
48) Methyl methacrylate	7.61	41	5696	1.05	ug/l	86
49) 1,4-Dioxane	7.21	88	2232	45.57	ug/l	1
51) 4-Methyl-2-Pentanone	8.63	43	230717	39.62	ug/l	99
52) Toluene	8.85	92	10324157	647.61	ug/l	99
55) 1,1,2-Trichloroethane	9.48	97	92209	16.35	ug/l	98
59) 2-Hexanone	9.76	43	12770	3.03	ug/l	32
64) Tetrachloroethene	9.54	164	260568	39.90	ug/l	97
65) Chlorobenzene	10.74	112	81291	5.60	ug/l	100

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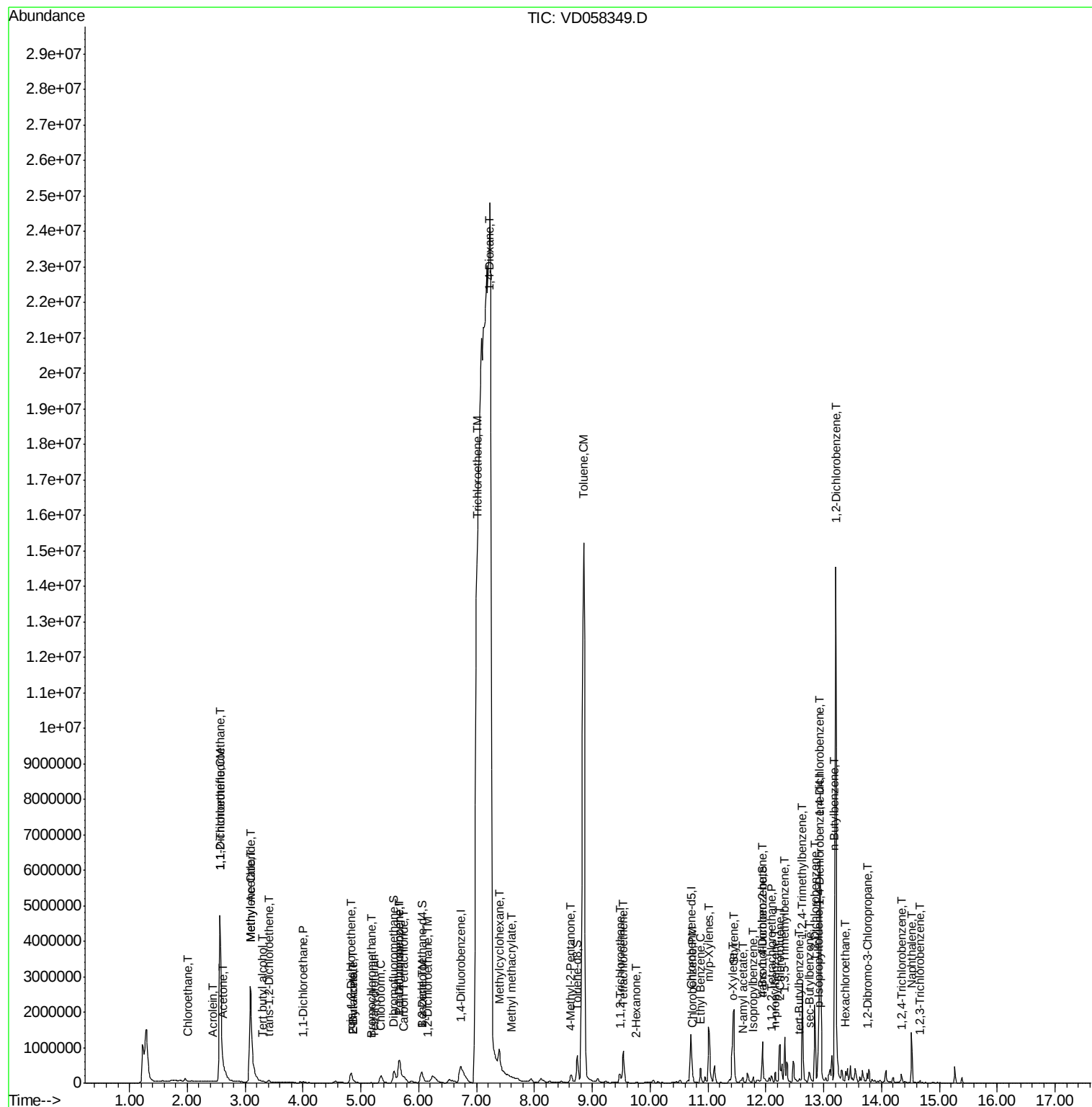
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Ethyl Benzene	10.88	91	300765	11.74	ug/l	96
68) m/p-Xylenes	11.01	106	435379	50.94	ug/l	99
69) o-Xylene	11.42	106	216680	26.55	ug/l	98
70) Styrene	11.45	104	872071	62.61	ug/l	100
73) Isopropylbenzene	11.78	105	78445	3.16	ug/l	94
74) N-amyl acetate	11.60	43	12783	1.33	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.10	83	8476	1.47	ug/l #	40
78) n-propylbenzene	12.16	91	201768	6.30	ug/l	99
79) 2-Chlorotoluene	12.24	91	103834	5.67	ug/l #	46
80) 1,3,5-Trimethylbenzene	12.32	105	565174	29.22	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	131363	88.99	ug/l #	1
82) 4-Chlorotoluene	12.32	91	69631	Below	Cal #	48
83) tert-Butylbenzene	12.58	119	30918	1.39	ug/l	91
84) 1,2,4-Trimethylbenzene	12.63	105	1333884	63.45	ug/l	96
85) sec-Butylbenzene	12.77	105	105838	4.06	ug/l	95
86) p-Isopropyltoluene	12.89	119	80759	3.82	ug/l	95
87) 1,3-Dichlorobenzene	12.84	146	586952	45.48	ug/l	96
88) 1,4-Dichlorobenzene	12.93	146	1892936	150.21	ug/l	95
89) n-Butylbenzene	13.18	91	101785	4.59	ug/l #	1
90) Hexachloroethane	13.38	117	14201	2.59	ug/l #	1
91) 1,2-Dichlorobenzene	13.21	146	6245807	568.71	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.75	75	4259	4.64	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.34	180	48405	4.61	ug/l	93
95) Naphthalene	14.52	128	777486	56.19	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	16386	1.78	ug/l	88

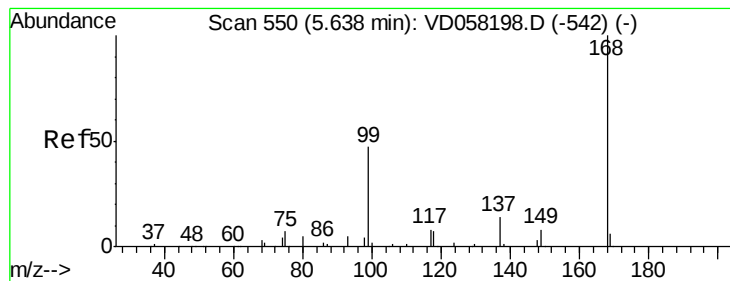
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

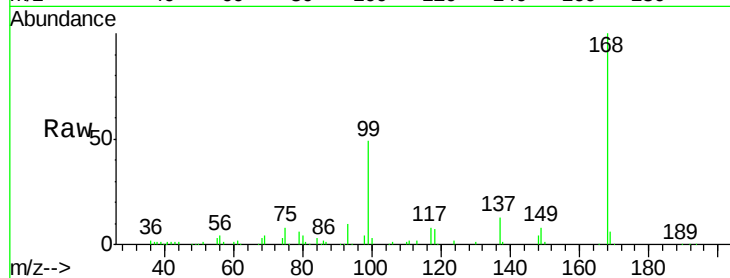
ClientSampled :

Tot Ion:168 Resp: 827340

Ion Ratio Lower Upper

168 100

99 48.6 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.67

250000

200000

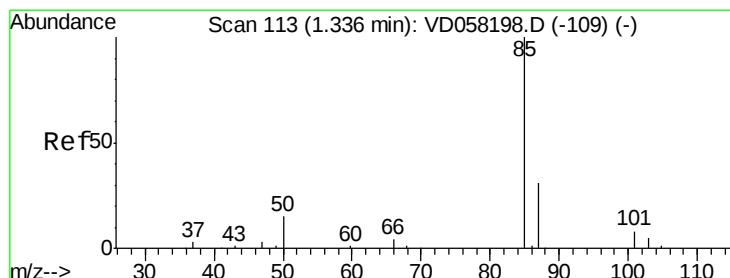
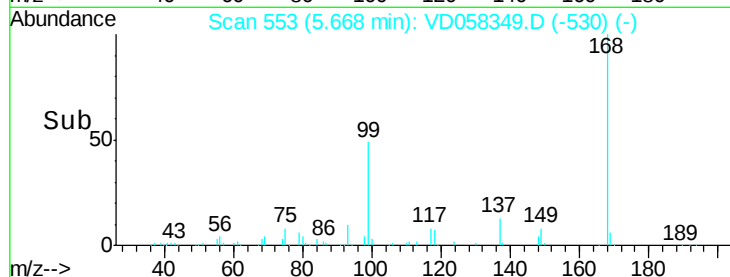
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD058349.D

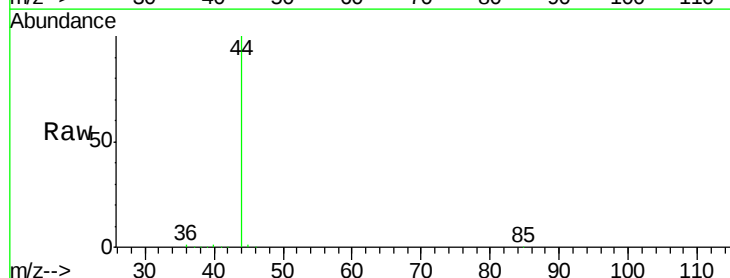
Acq: 23 Jun 2018 19:07

Tgt Ion: 85 Resp: 239

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

1.35

400

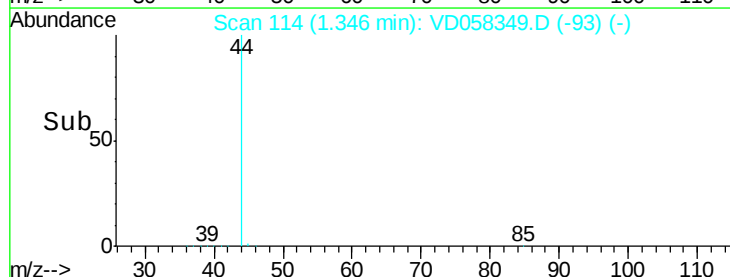
300

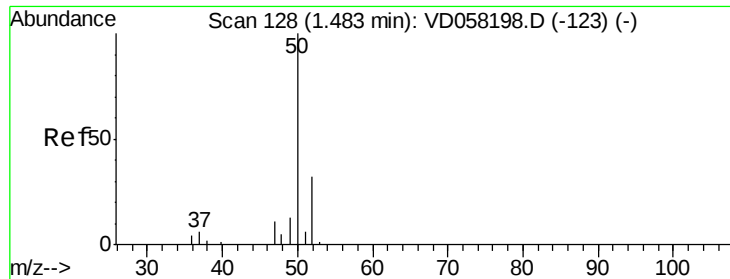
200

100

0

Time--> 1.32 1.34 1.36





#3

Chloromethane

Concen: Below Cal

RT: 1.52 min Scan# 132

Delta R.T. 0.04 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

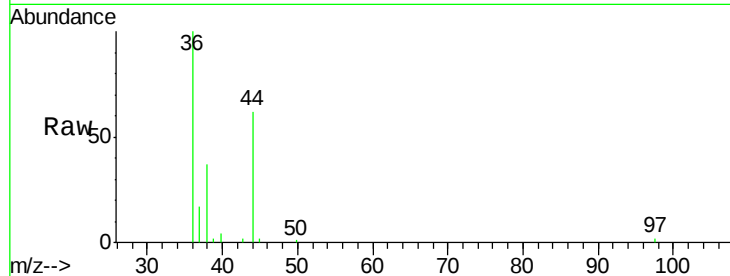
ClientSampleId :

Tot Ion: 50 Resp: 177

Ion Ratio Lower Upper

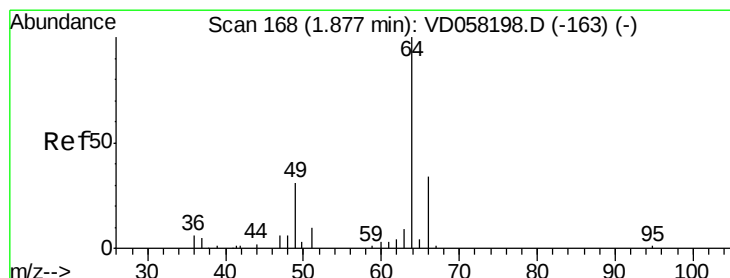
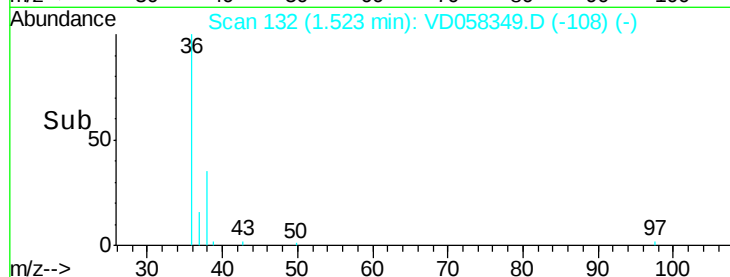
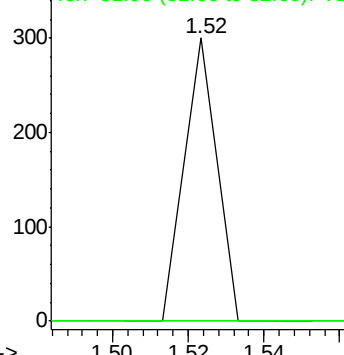
50 100

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



#6

Chloroethane

Concen: 1.51 ug/l

RT: 2.03 min Scan# 183

Delta R.T. 0.15 min

Lab File: VD058349.D

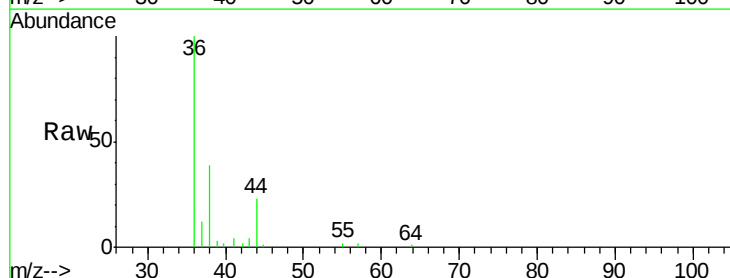
Acq: 23 Jun 2018 19:07

Tgt Ion: 64 Resp: 183

Ion Ratio Lower Upper

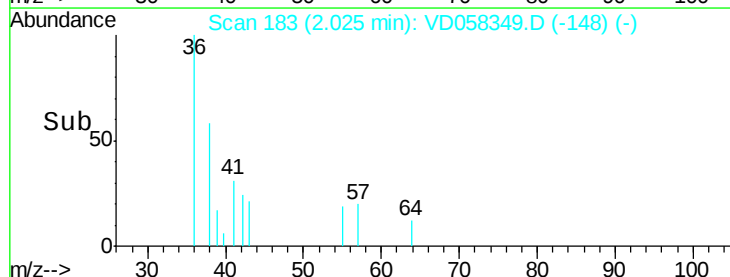
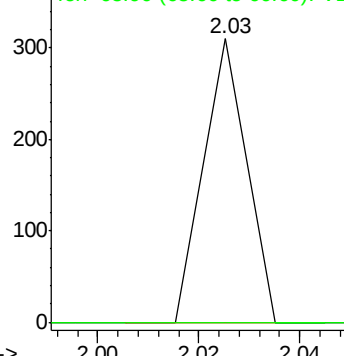
64 100

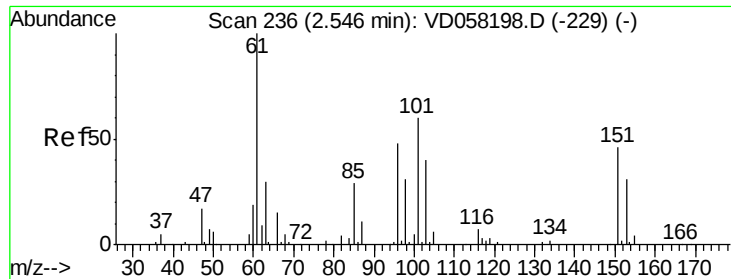
66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.33 ug/l

RT: 2.58 min Scan# 239

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

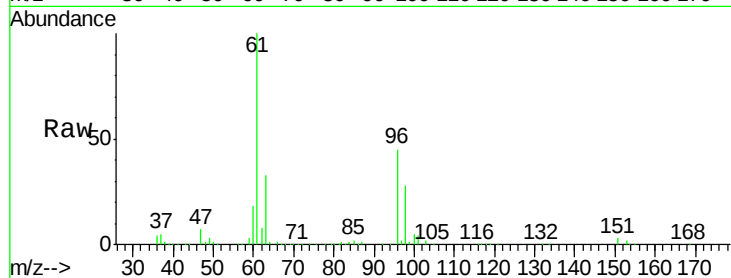
Tot Ion:101 Resp: 152377

Ion Ratio Lower Upper

101 100

85 52.6 39.0 58.4

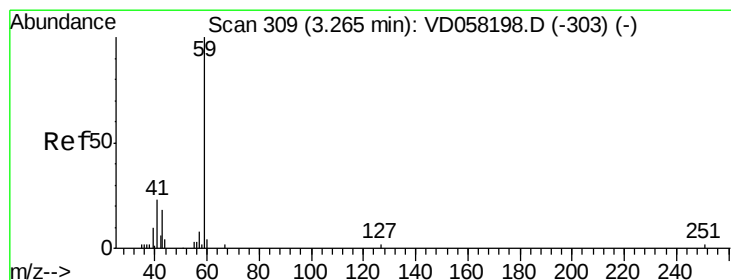
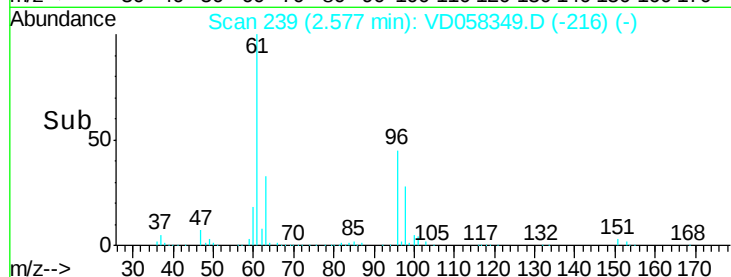
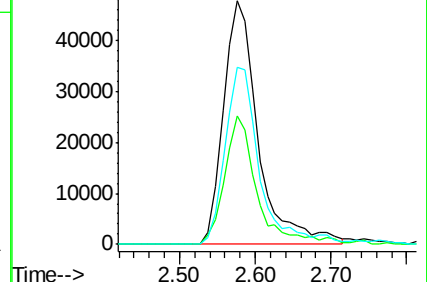
151 72.6 61.8 92.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V



#11

Tert butyl alcohol

Concen: 1.01 ug/l

RT: 3.29 min Scan# 311

Delta R.T. 0.02 min

Lab File: VD058349.D

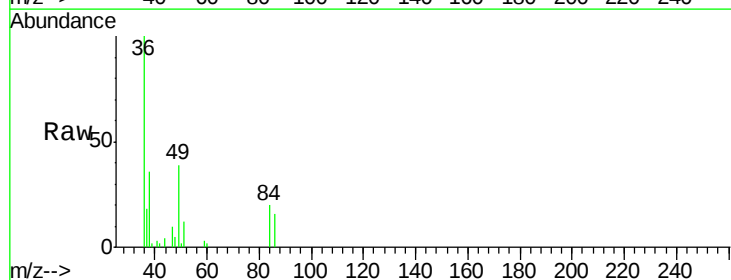
Acq: 23 Jun 2018 19:07

Tgt Ion: 59 Resp: 279

Ion Ratio Lower Upper

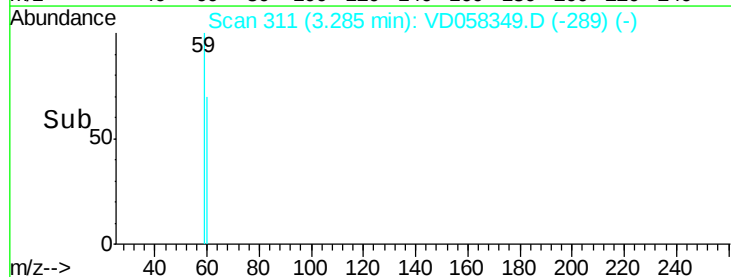
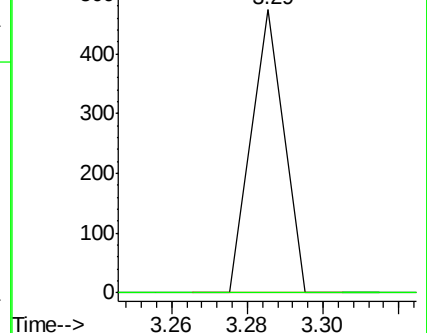
59 100

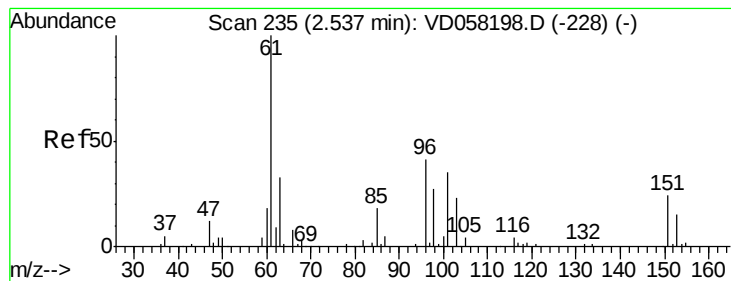
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#12

1,1-Dichloroethene

Concen: 725.06 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampled :

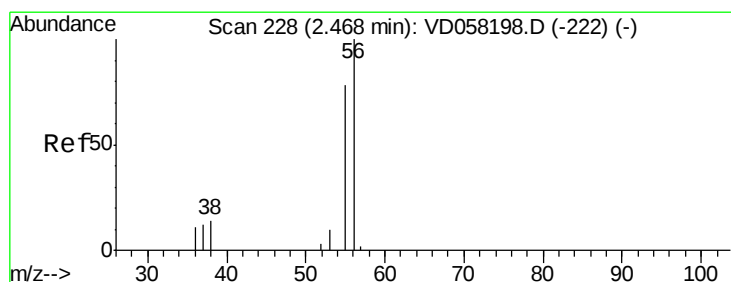
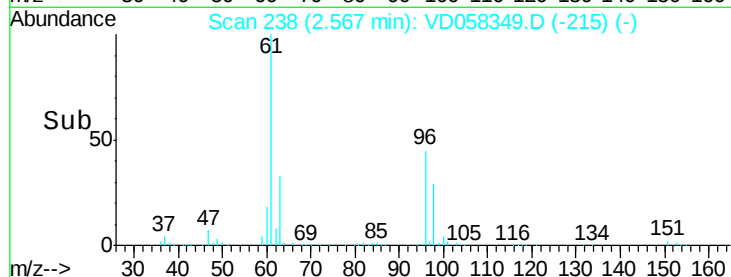
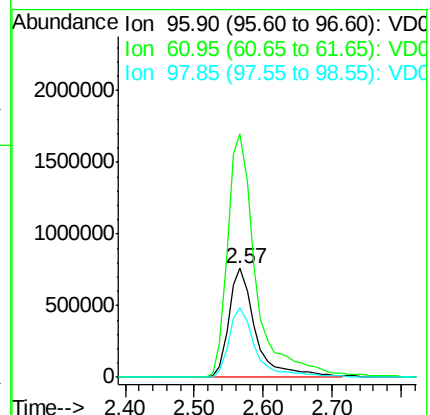
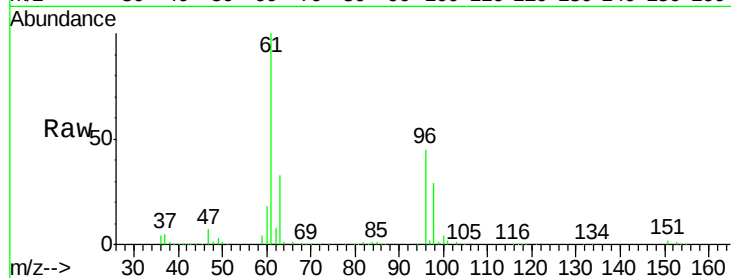
Tot Ion: 96 Resp: 2060911

Ion Ratio Lower Upper

96 100

61 223.6 193.9 290.9

98 63.9 51.7 77.5



#13

Acrolein

Concen: 1.34 ug/l

RT: 2.46 min Scan# 227

Delta R.T. -0.01 min

Lab File: VD058349.D

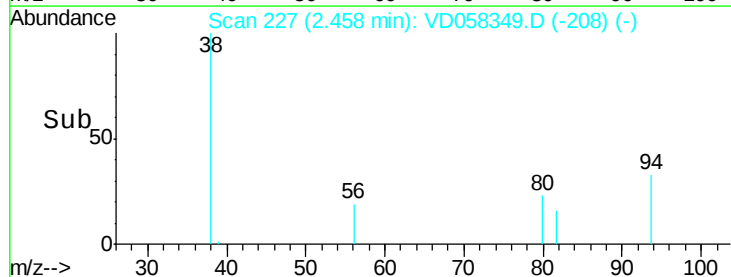
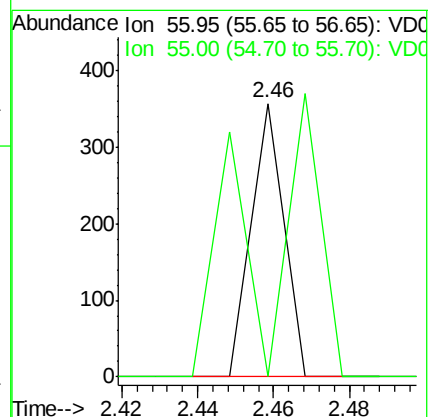
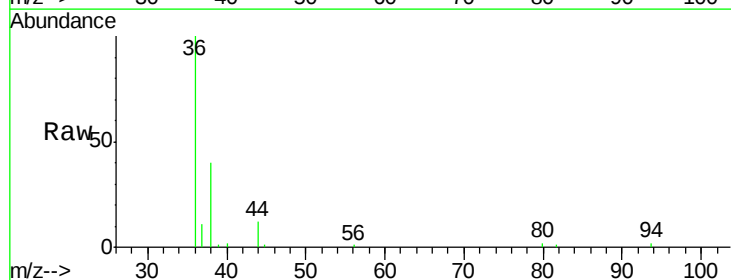
Acq: 23 Jun 2018 19:07

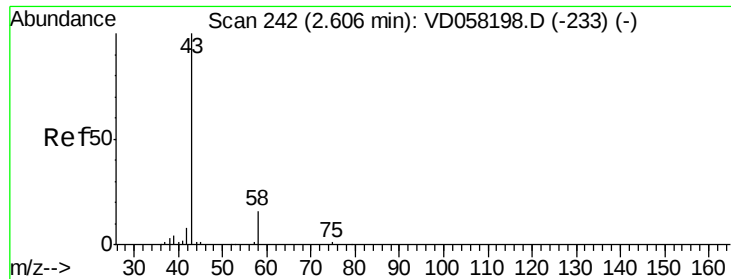
Tgt Ion: 56 Resp: 211

Ion Ratio Lower Upper

56 100

55 0.0 62.1 93.1#





#16

Acetone

Concen: 28.90 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

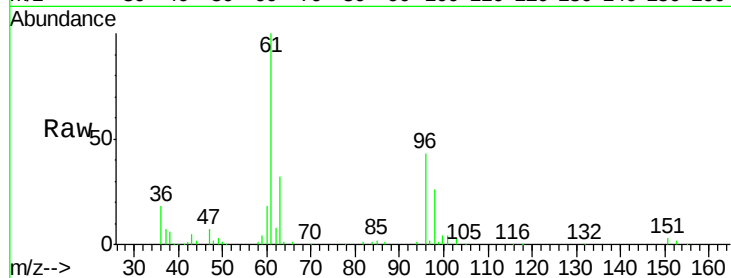
ClientSampleId :

Tot Ion: 43 Resp: 33033

Ion Ratio Lower Upper

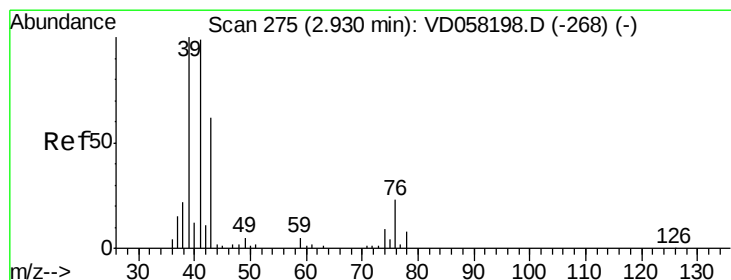
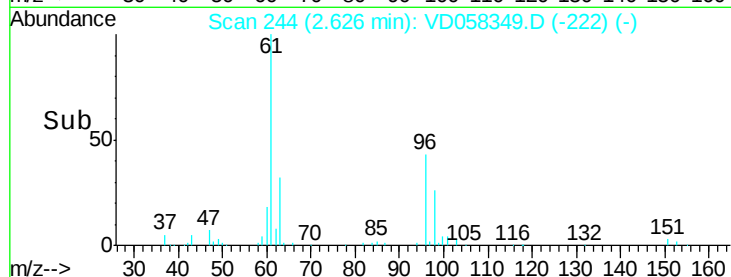
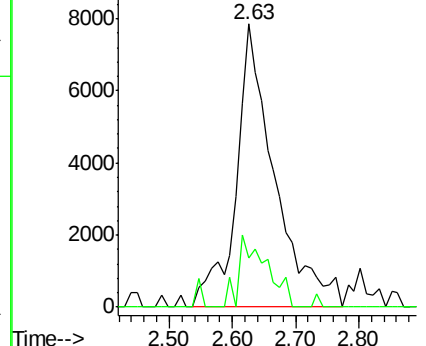
43 100

58 17.5 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 16.38 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.16 min

Lab File: VD058349.D

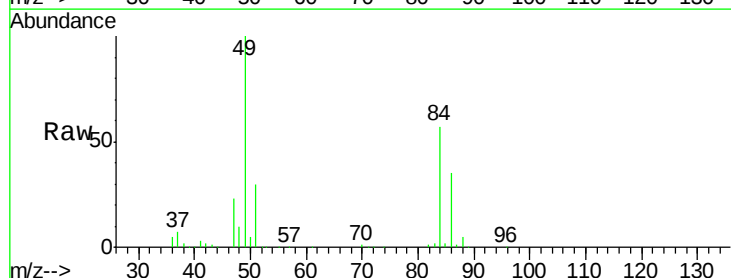
Acq: 23 Jun 2018 19:07

Tgt Ion: 43 Resp: 39921

Ion Ratio Lower Upper

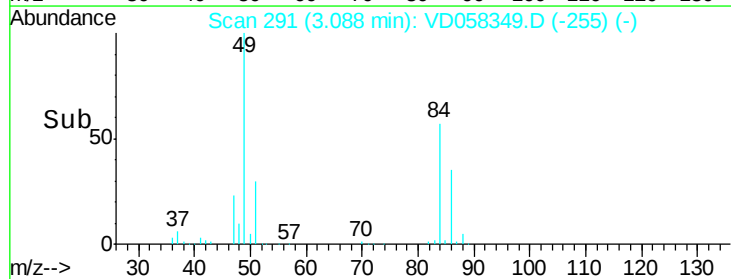
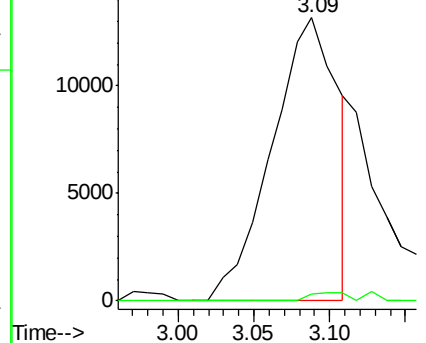
43 100

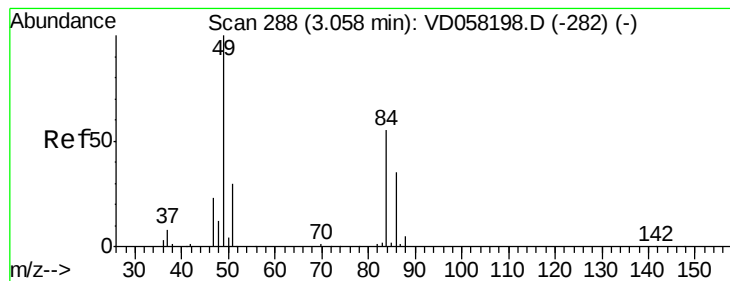
74 2.6 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 621.23 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 1691031

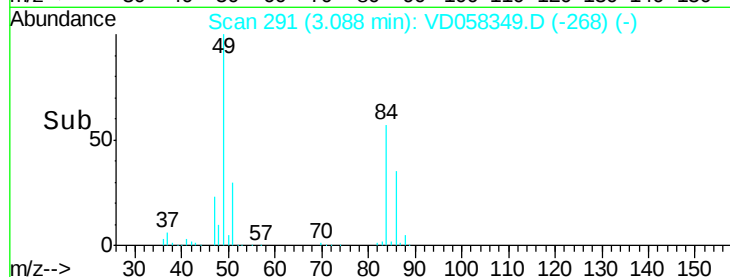
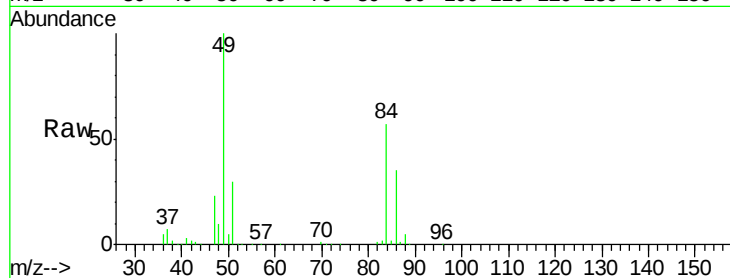
Ion	Ratio	Lower	Upper
84	100		
49	174.1	145.0	217.6
51	52.3	42.9	64.3
86	61.8	50.1	75.1

84 100

49 174.1 145.0 217.6

51 52.3 42.9 64.3

86 61.8 50.1 75.1

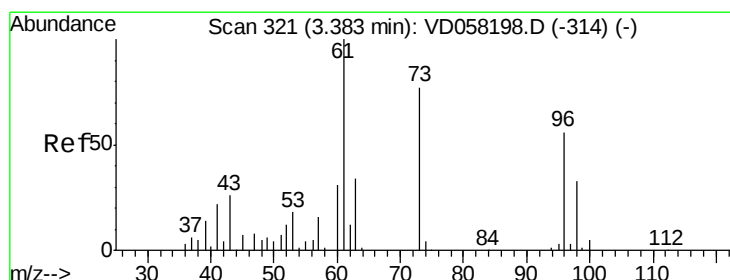
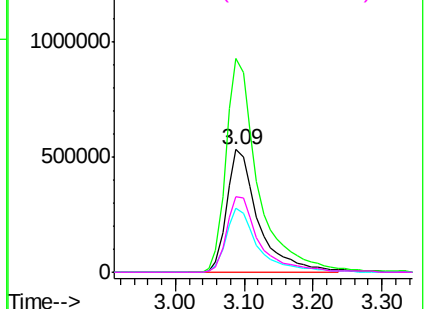


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#21

trans-1,2-Dichloroethene

Concen: 2.52 ug/l

RT: 3.42 min Scan# 325

Delta R.T. 0.04 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

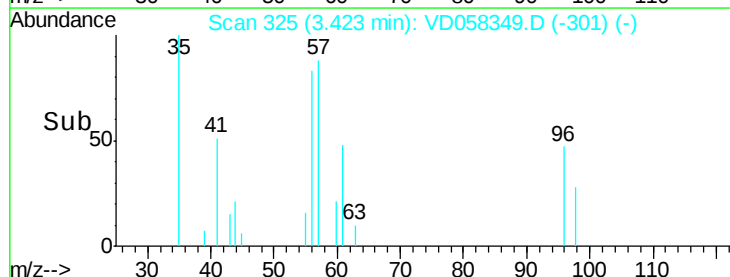
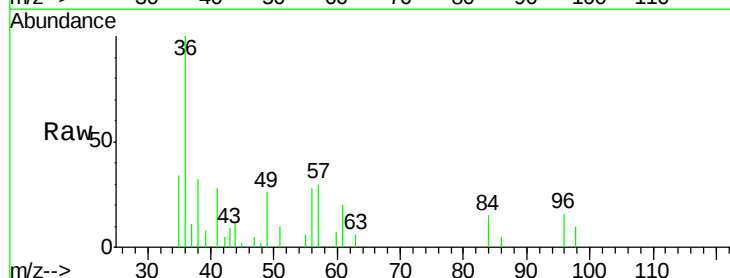
Tgt Ion: 96 Resp: 7832

Ion	Ratio	Lower	Upper
96	100		
61	125.8	143.8	215.6#
98	59.5	48.0	72.0

96 100

61 125.8 143.8 215.6#

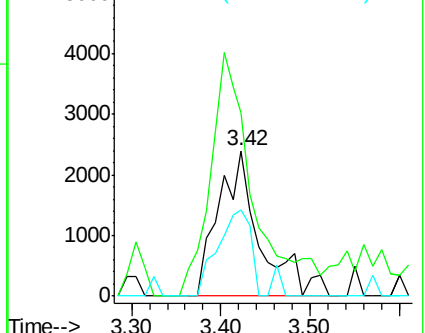
98 59.5 48.0 72.0

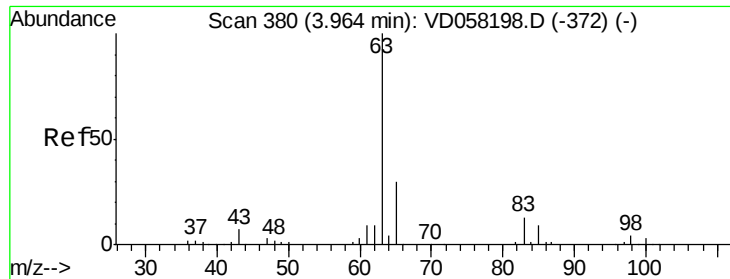


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#24

1,1-Dichloroethane

Concen: 3.93 ug/l

RT: 3.99 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 63 Resp: 55574

Ion Ratio Lower Upper

63 100

98 4.5

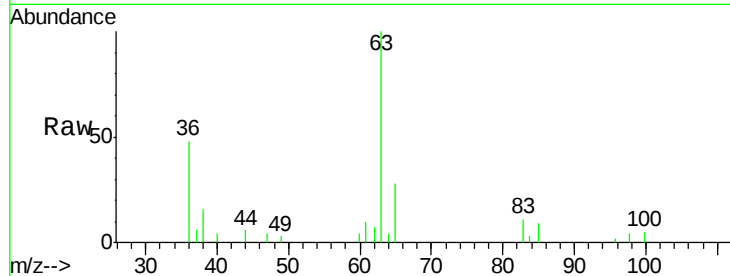
1.9

5.7

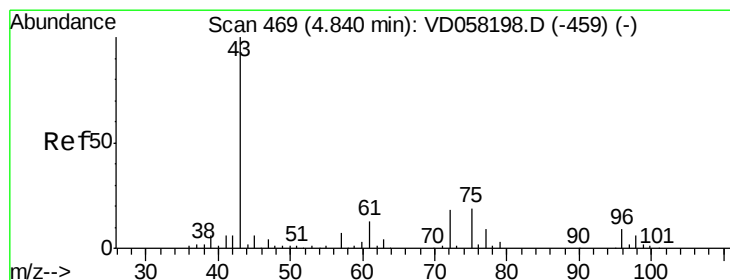
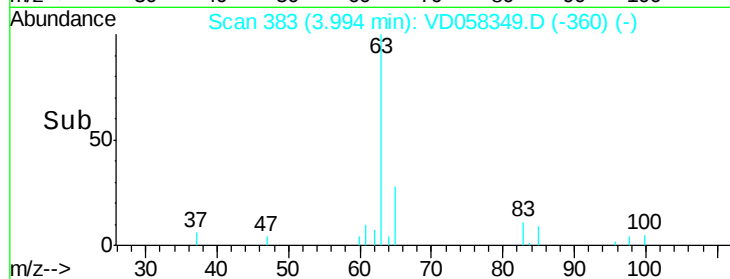
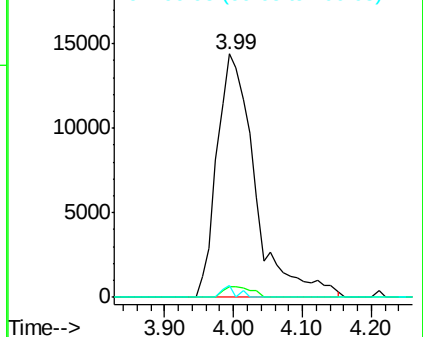
100 4.9

1.3

3.9#



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: 8.25 ug/l

RT: 4.87 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Tgt Ion: 43 Resp: 20542

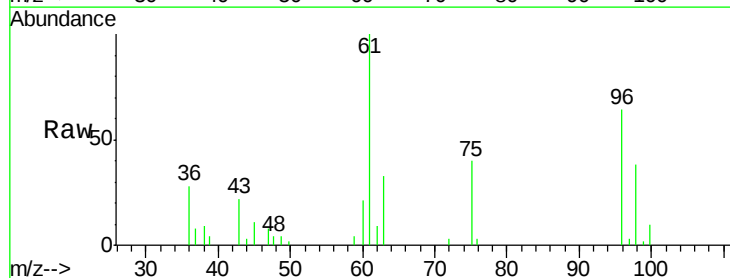
Ion Ratio Lower Upper

43 100

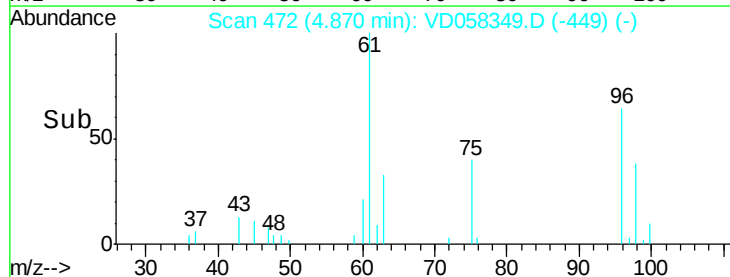
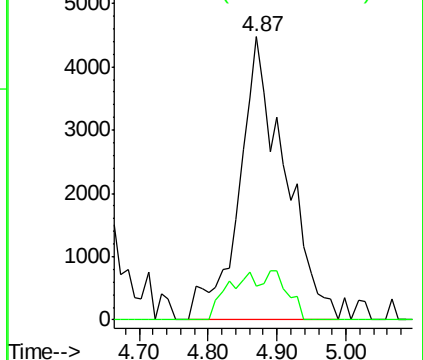
72 12.0

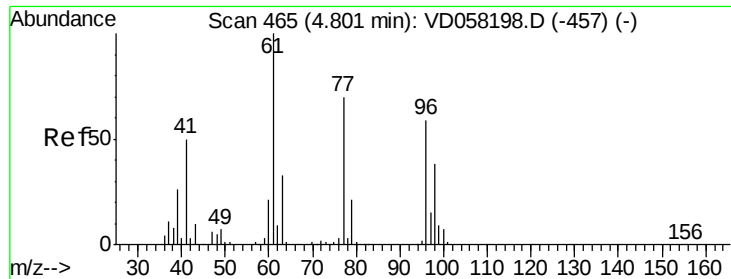
14.1

21.1#



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



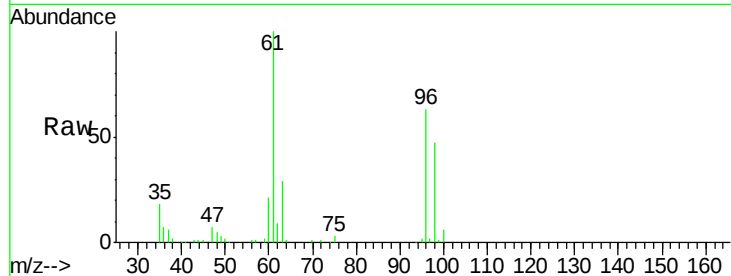


#27

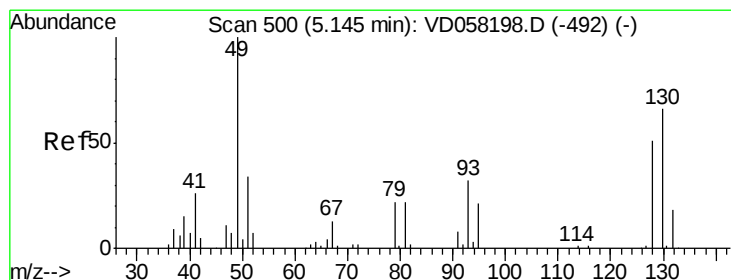
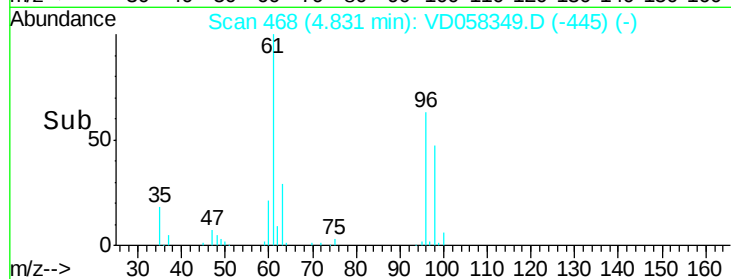
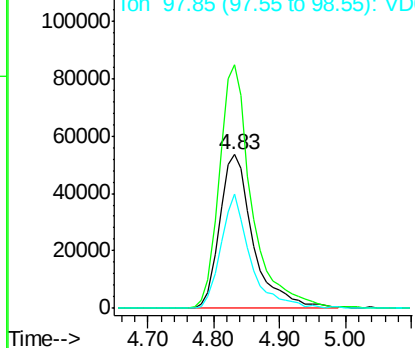
cis-1,2-Dichloroethene
Concen: 24.48 ug/l
RT: 4.83 min Scan# 468
Delta R.T. 0.03 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 96 Resp: 190028
Ion Ratio Lower Upper
96 100
61 158.4 0.0 338.6
98 74.1 0.0 130.2



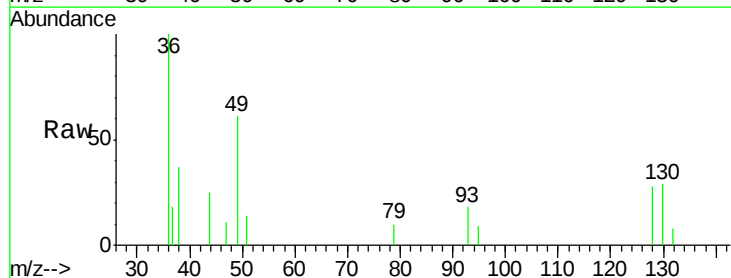
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



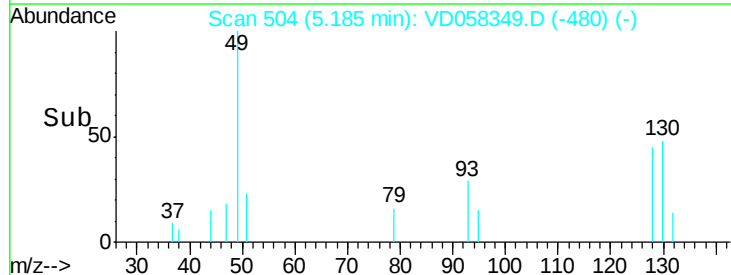
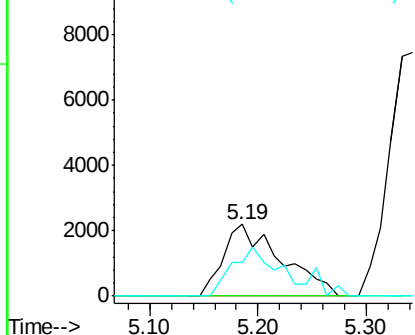
#28

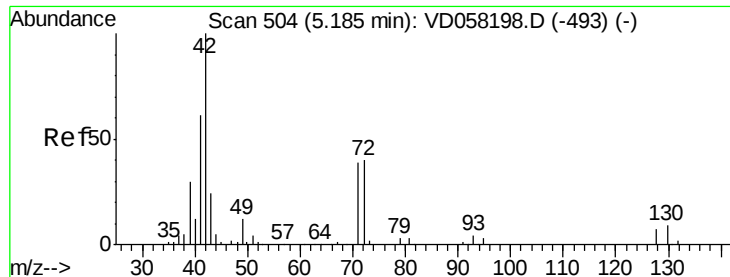
Bromochloromethane
Concen: 1.29 ug/l
RT: 5.19 min Scan# 504
Delta R.T. 0.04 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Tgt Ion: 49 Resp: 8165
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 47.9 52.6 79.0#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 1.44 ug/l

RT: 5.22 min Scan# 508

Delta R.T. 0.04 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampled :

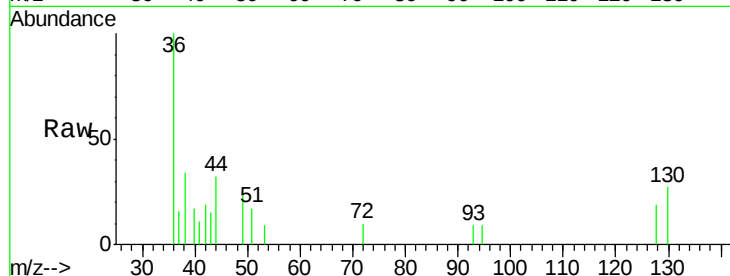
Tot Ion: 42 Resp: 1909

Ion Ratio Lower Upper

42 100

72 10.6 30.2 45.2#

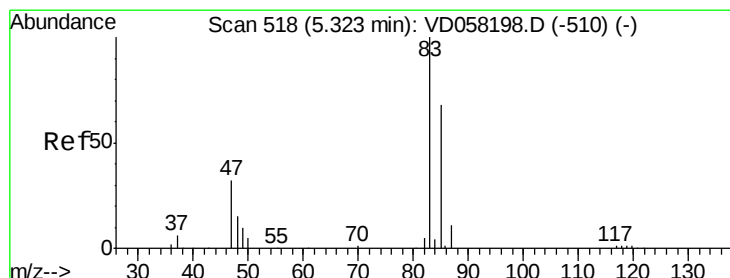
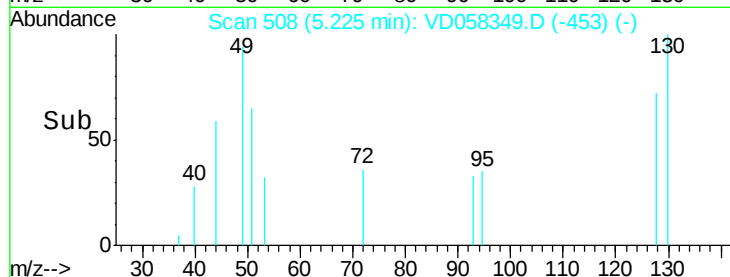
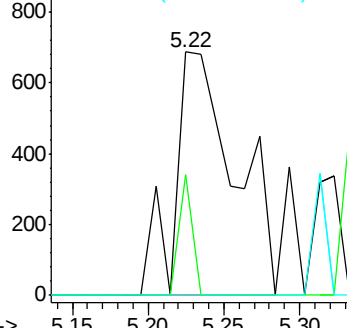
71 0.0 30.1 45.1#



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



#30

Chloroform

Concen: 18.03 ug/l

RT: 5.34 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD058349.D

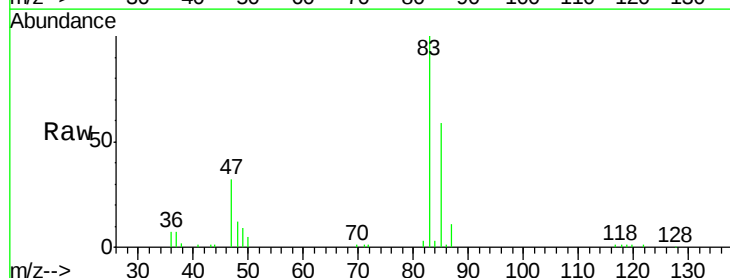
Acq: 23 Jun 2018 19:07

Tgt Ion: 83 Resp: 269399

Ion Ratio Lower Upper

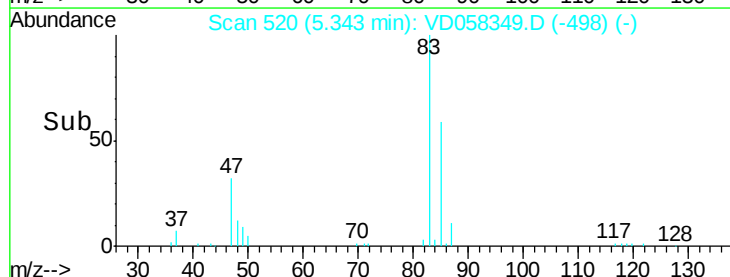
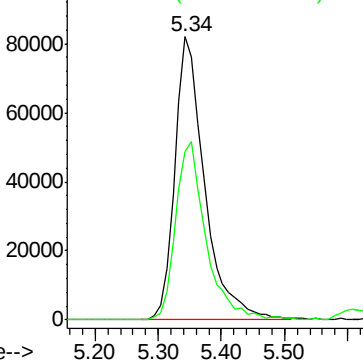
83 100

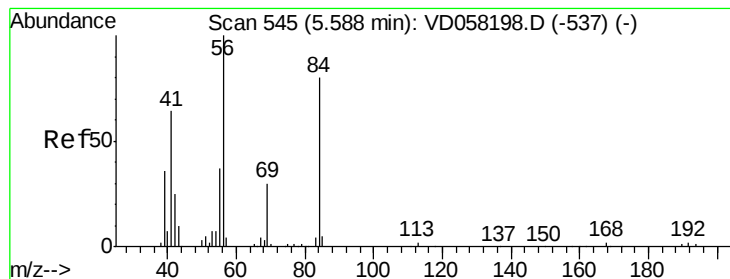
85 59.5 54.8 82.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.06 min

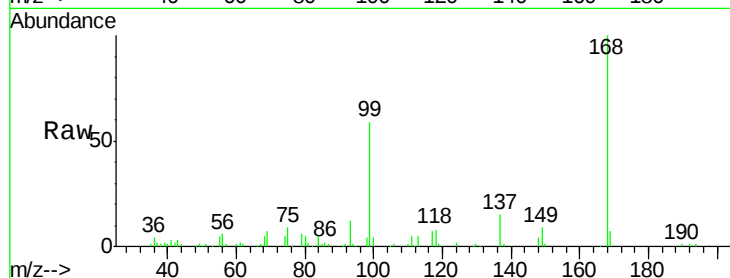
Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 33196

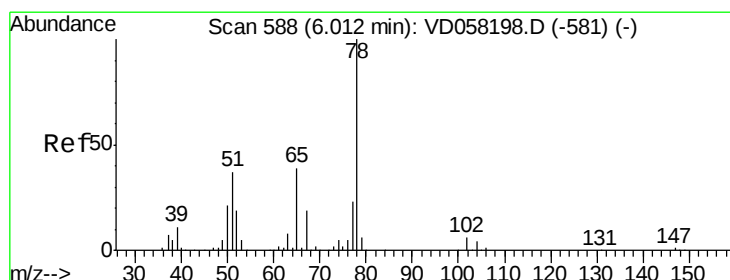
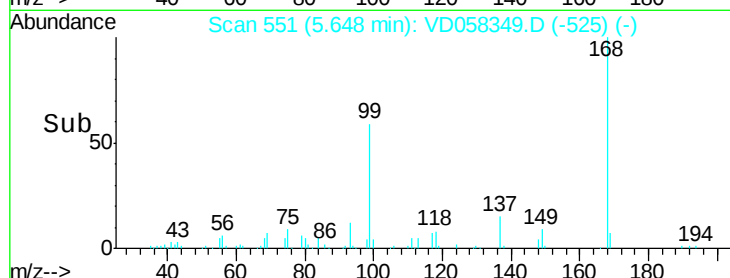
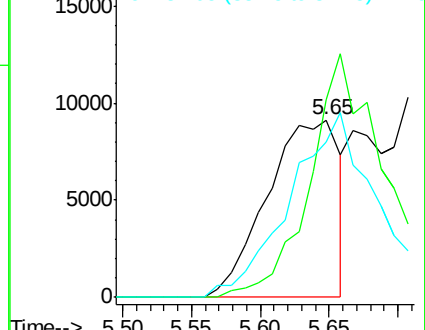
Ion	Ratio	Lower	Upper
56	100		
69	111.6	23.6	35.4
84	88.0	65.2	97.8



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: N.D. ug/l

RT: 6.05 min Scan# 592

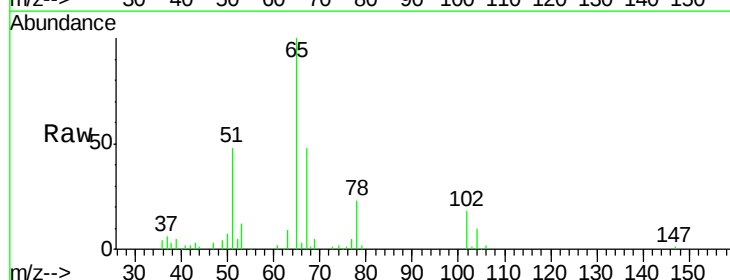
Delta R.T. 0.04 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

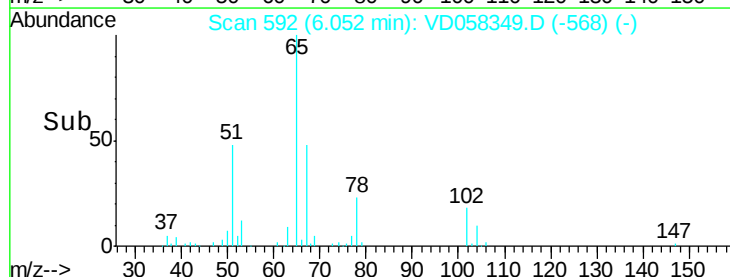
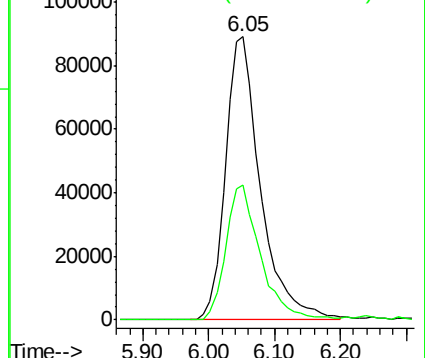
Tgt Ion: 65 Resp: 330840

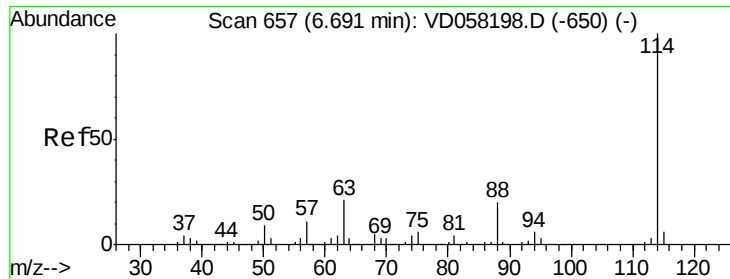
Ion	Ratio	Lower	Upper
65	100		
67	47.7	0.0	97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

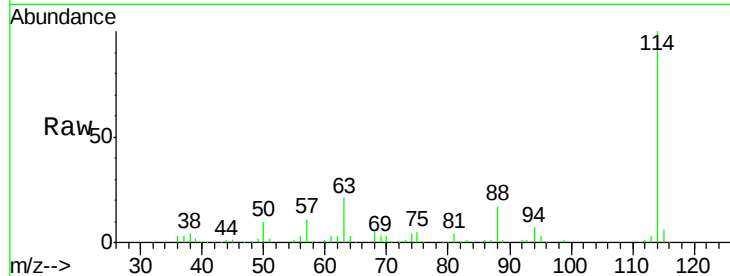




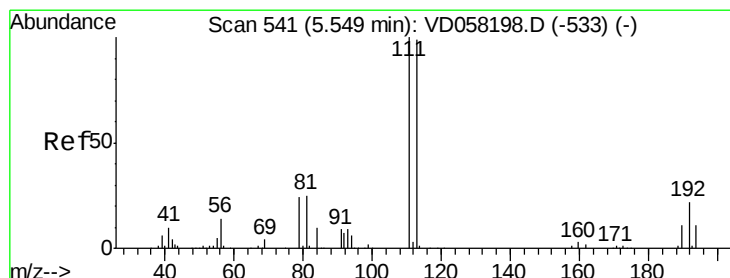
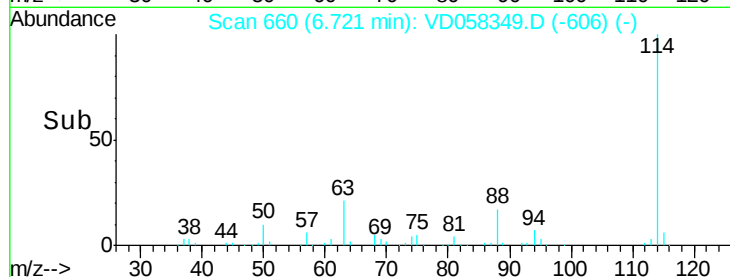
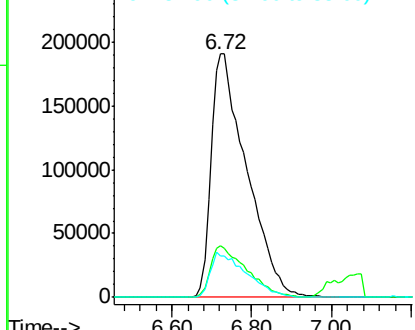
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.72 min Scan# 660
Delta R.T. 0.03 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:114 Resp: 1188067
Ion Ratio Lower Upper
114 100
63 21.4 0.0 42.6
88 17.0 0.0 40.6

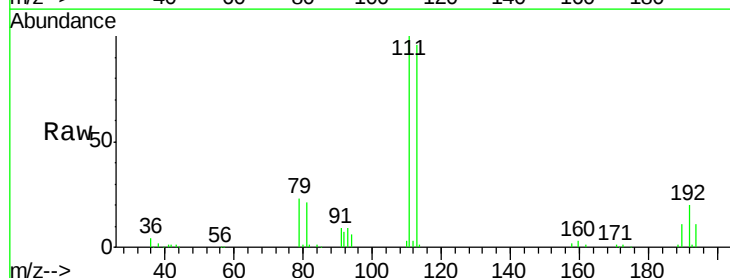


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

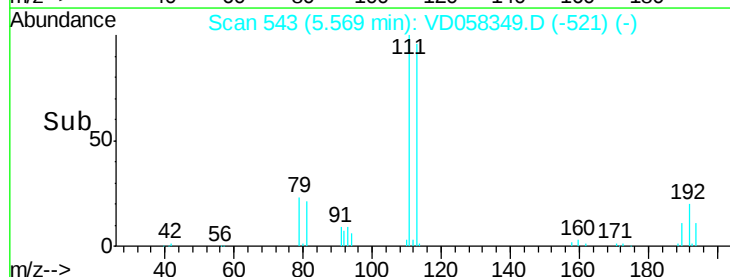
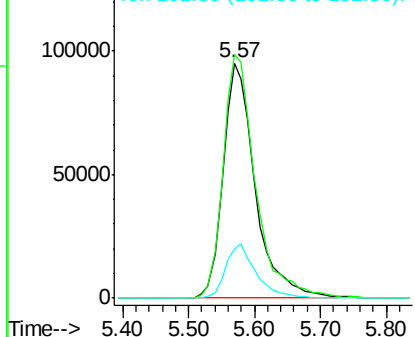


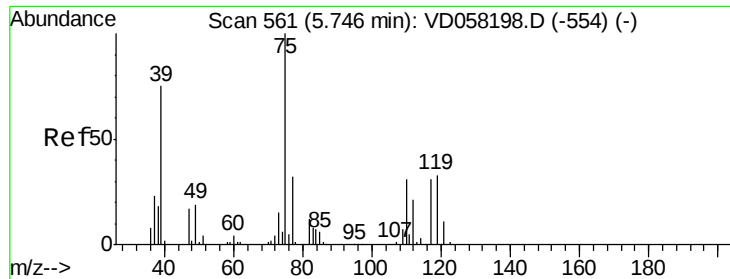
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 5.57 min Scan# 543
Delta R.T. 0.02 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Tgt Ion:113 Resp: 324107
Ion Ratio Lower Upper
113 100
111 103.7 80.6 121.0
192 20.7 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

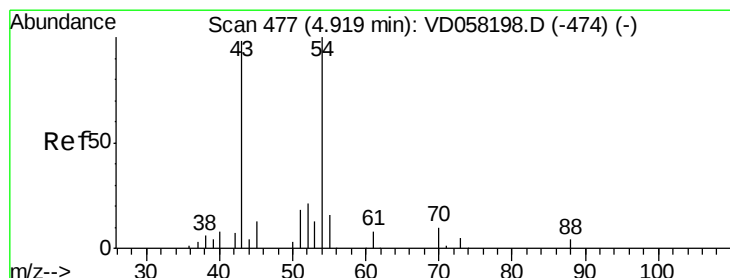
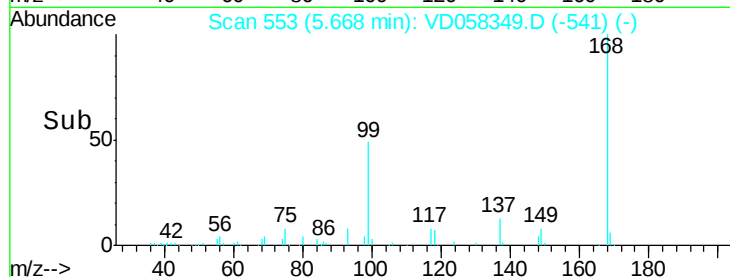
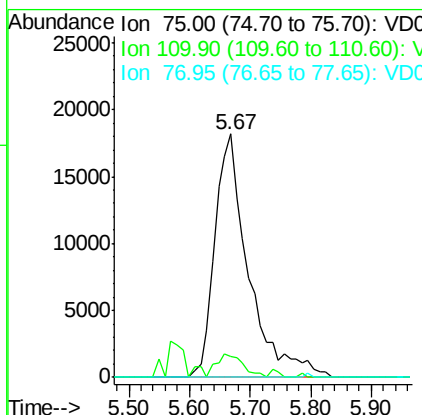
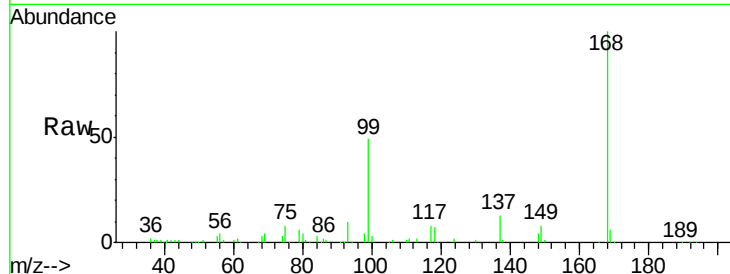




#36
 1,1-Dichloropropene
 Concen: 5.95 ug/l
 RT: 5.67 min Scan# 553
 Delta R.T. -0.08 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

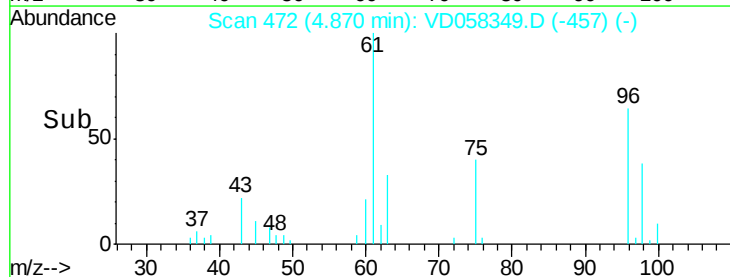
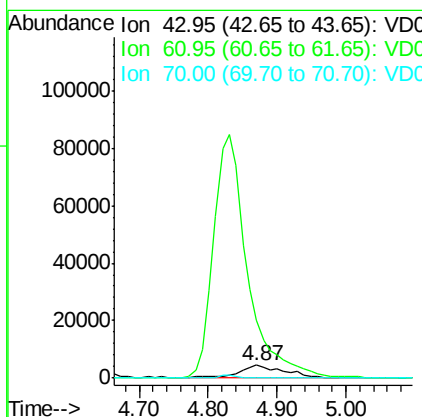
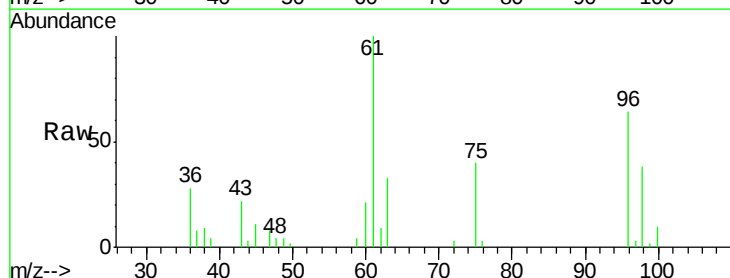
Instrument :
 MSVOA_D
 ClientSampleID :

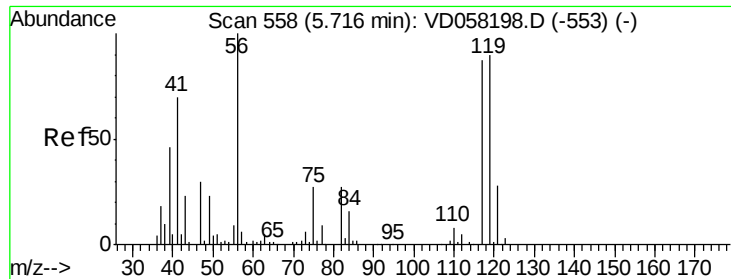
Tot Ion	75	Resp	69967
Ion Ratio	Lower	Upper	
75	100		
110	8.5	15.4	46.4#
77	0.0	25.4	38.2#



#37
 Ethyl Acetate
 Concen: 3.07 ug/l
 RT: 4.87 min Scan# 472
 Delta R.T. -0.05 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion	43	Resp	20542
Ion Ratio	Lower	Upper	
43	100		
61	452.0	10.3	15.5#
70	0.0	5.7	8.5#





#38

Carbon Tetrachloride

Concen: 8.44 ug/l

RT: 5.76 min Scan# 562

Delta R.T. 0.04 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampled :

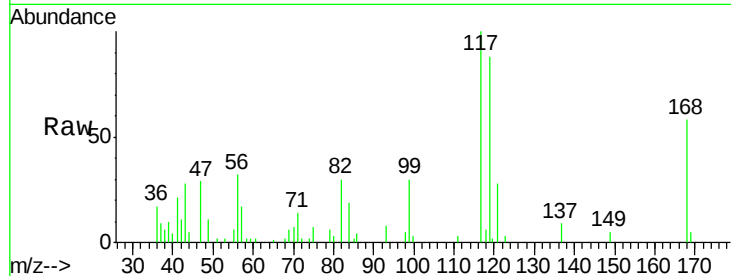
Tot Ion:117 Resp: 98562

Ion Ratio Lower Upper

117 100

119 88.3 78.8 118.2

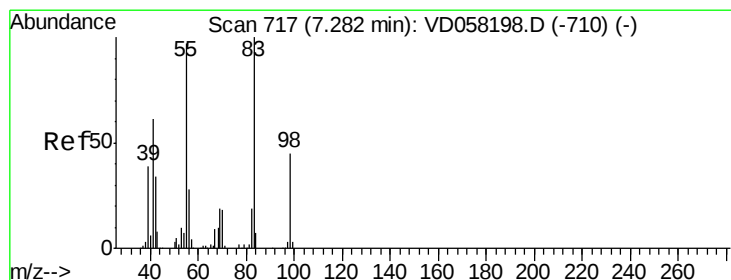
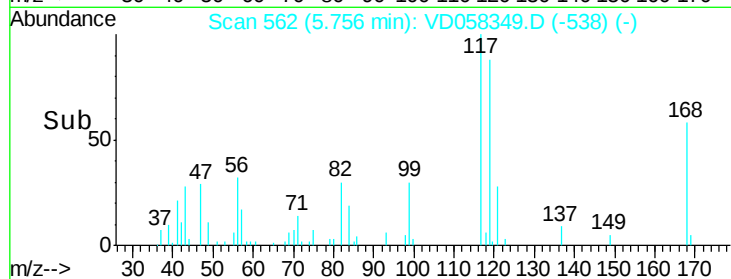
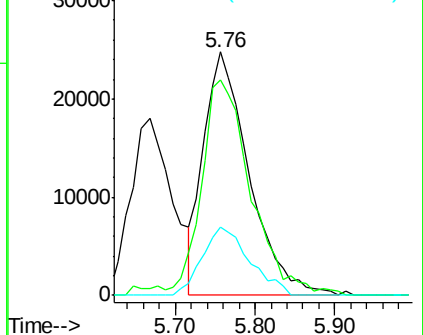
121 28.3 25.0 37.6



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



#39

Methylcyclohexane

Concen: 6.69 ug/l

RT: 7.39 min Scan# 728

Delta R.T. 0.11 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

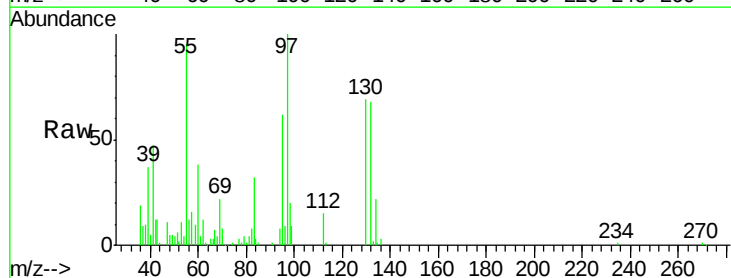
Tgt Ion: 83 Resp: 76530

Ion Ratio Lower Upper

83 100

55 300.6 77.4 116.2#

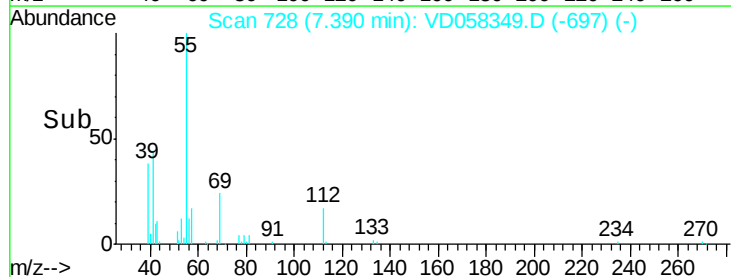
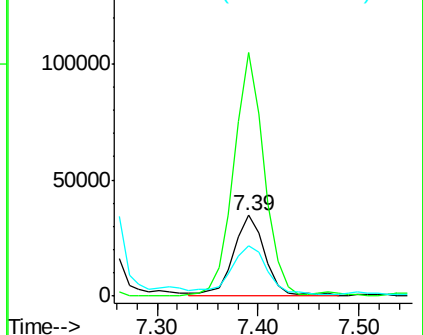
98 62.2 35.9 53.9#

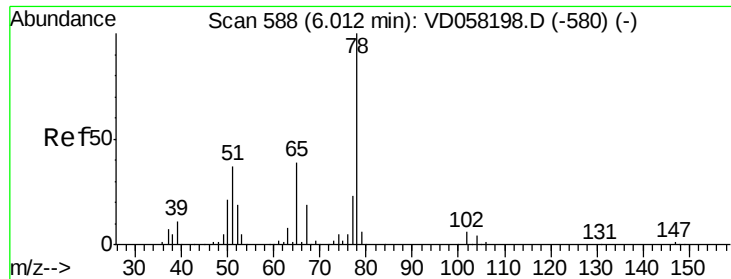


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

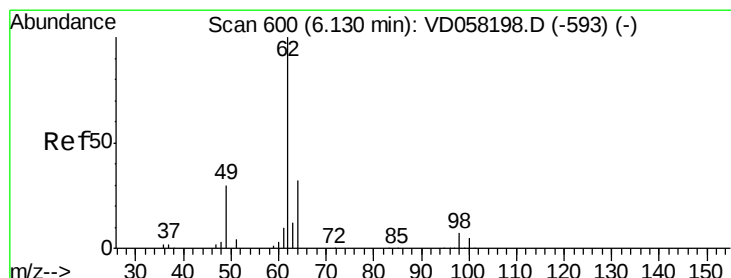
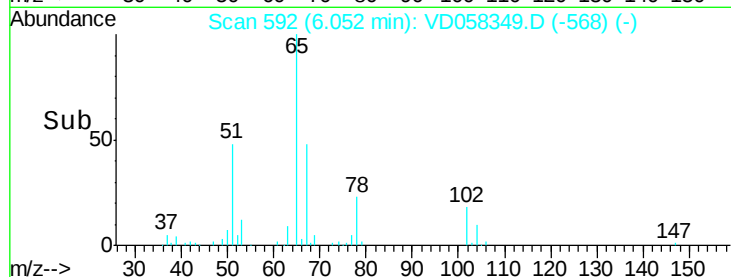
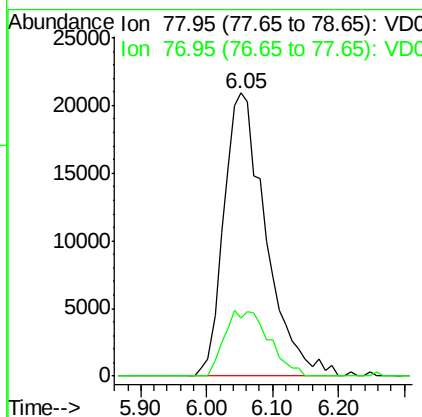
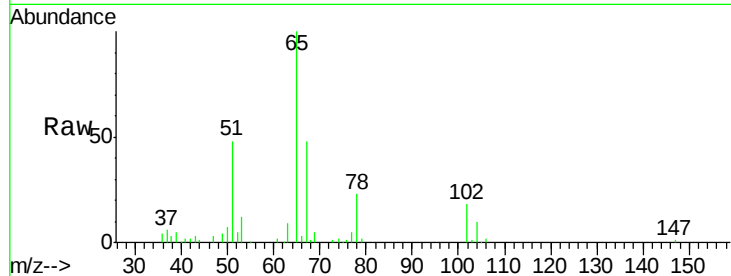




#40
Benzene
Concen: 3.33 ug/l
RT: 6.05 min Scan# 592
Delta R.T. 0.04 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

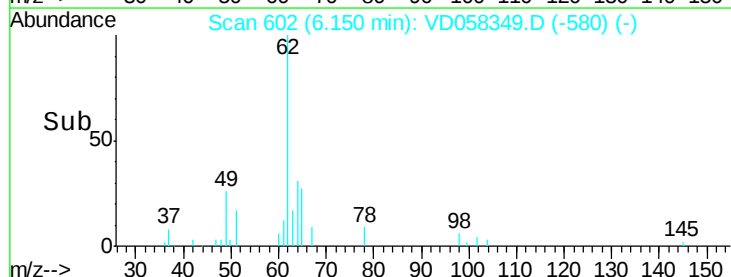
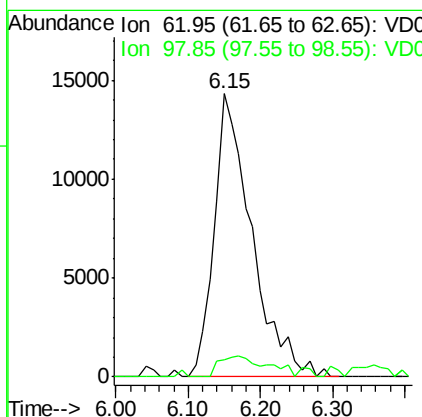
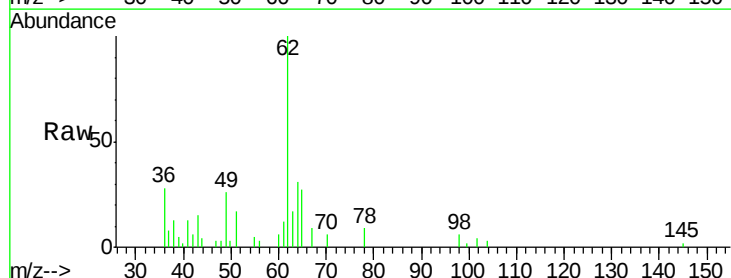
Instrument :
MSVOA_D
ClientSampled :

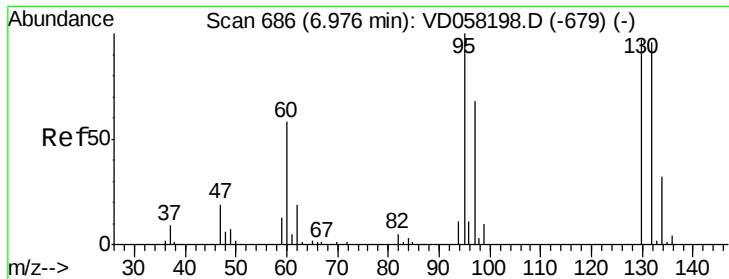
Tot Ion: 78 Resp: 93255
Ion Ratio Lower Upper
78 100
77 20.5 18.5 27.7



#42
1,2-Dichloroethane
Concen: 4.55 ug/l
RT: 6.15 min Scan# 602
Delta R.T. 0.02 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Tgt Ion: 62 Resp: 51377
Ion Ratio Lower Upper
62 100
98 5.9 0.0 13.2





#44

Trichloroethene

Concen: 740.05 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

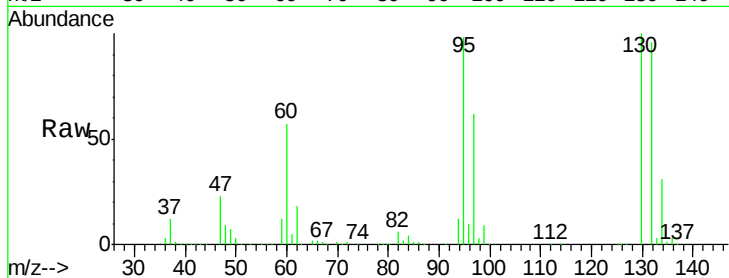
ClientSampleId :

Tot Ion:130 Resp: 6221593

Ion Ratio Lower Upper

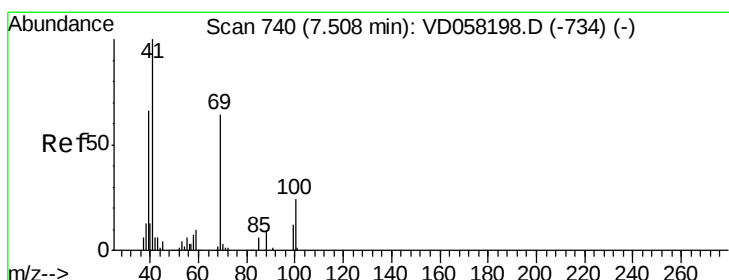
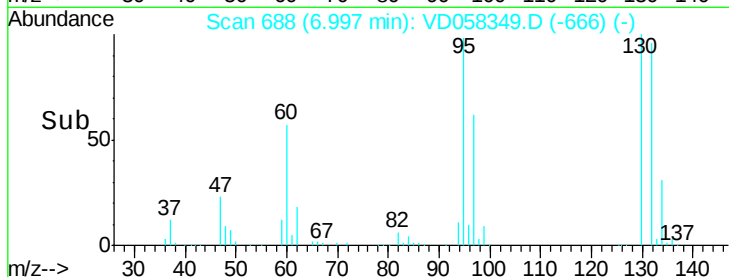
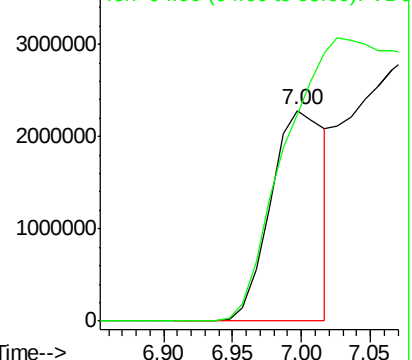
130 100

95 98.2 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#48

Methyl methacrylate

Concen: 1.05 ug/l

RT: 7.61 min Scan# 750

Delta R.T. 0.10 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

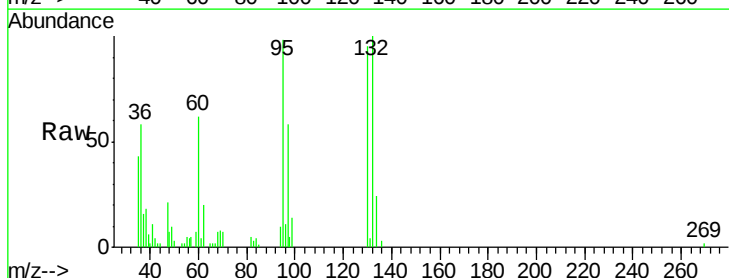
Tgt Ion: 41 Resp: 5696

Ion Ratio Lower Upper

41 100

69 73.7 50.7 76.1

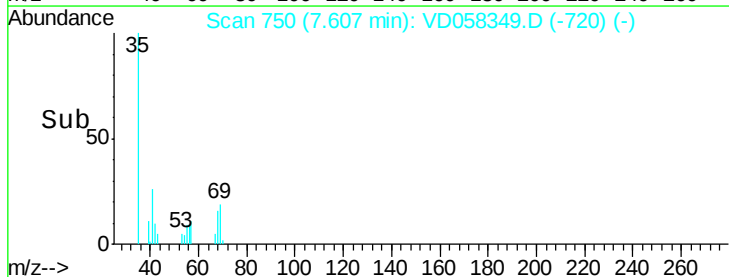
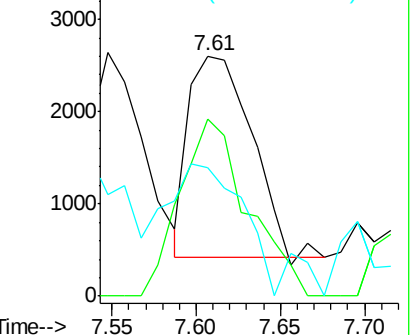
39 53.3 52.6 78.8

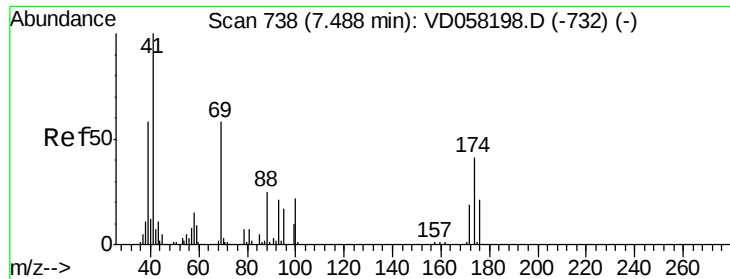


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

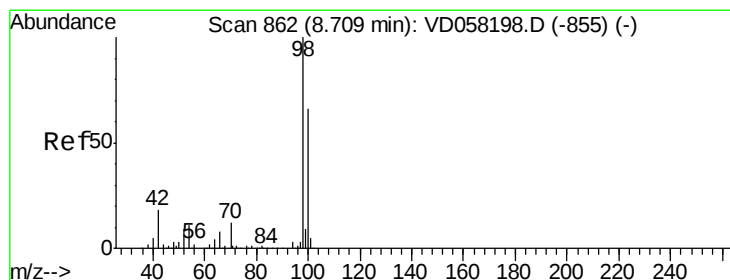
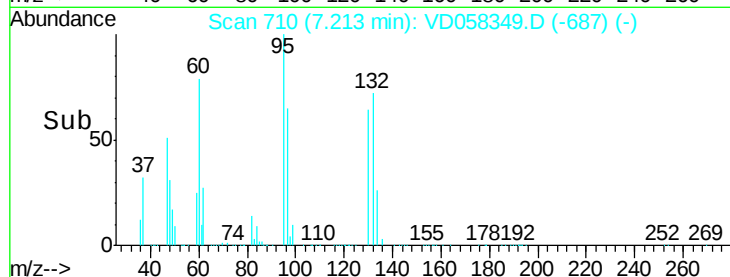
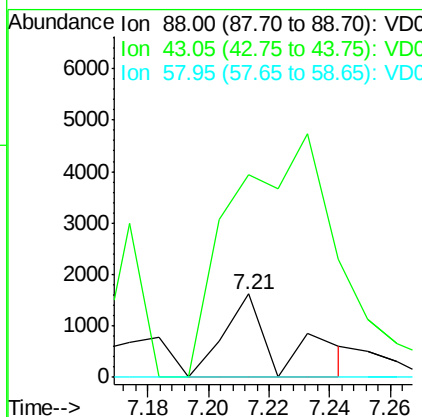
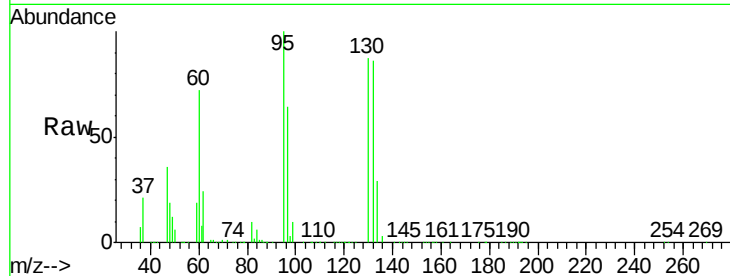




#49
 1,4-Dioxane
 Concen: 45.57 ug/l
 RT: 7.21 min Scan# 710
 Delta R.T. -0.28 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

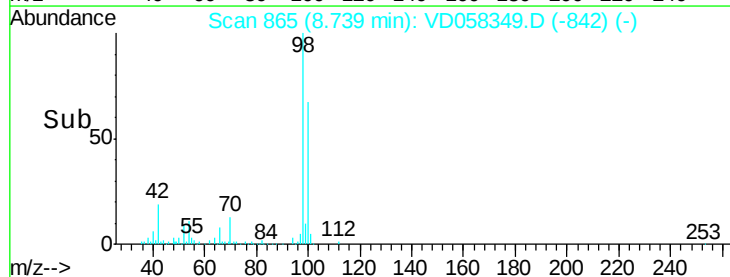
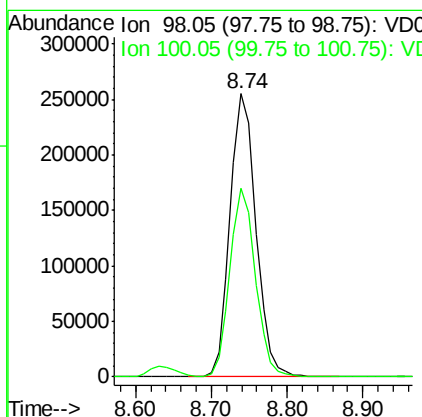
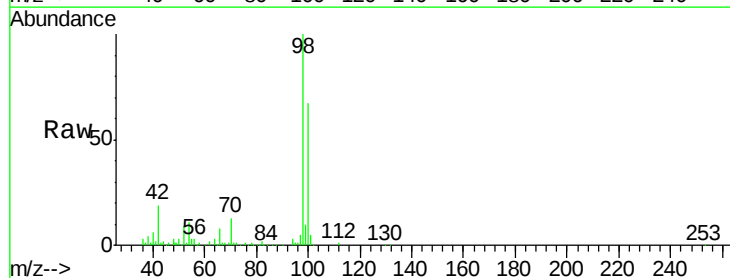
Instrument :
 MSVOA_D
 ClientSampled :

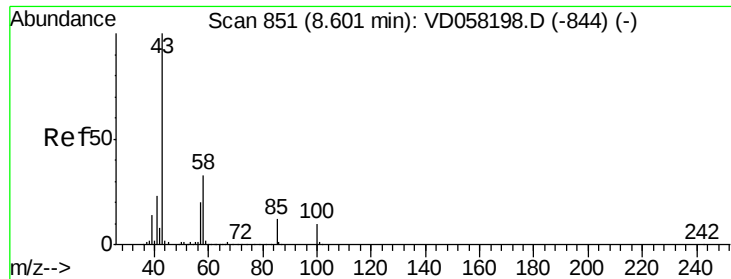
Tot Ion: 88 Resp: 2232
 Ion Ratio Lower Upper
 88 100
 43 242.8 34.2 51.2#
 58 0.0 47.9 71.9#



#50
 Toluene-d8
 Concen: 45.57 ug/l
 RT: 8.74 min Scan# 865
 Delta R.T. 0.03 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion: 98 Resp: 604379
 Ion Ratio Lower Upper
 98 100
 100 66.7 53.6 80.4





#51

4-Methyl-2-Pentanone

Concen: 39.62 ug/l

RT: 8.63 min Scan# 854

Delta R.T. 0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

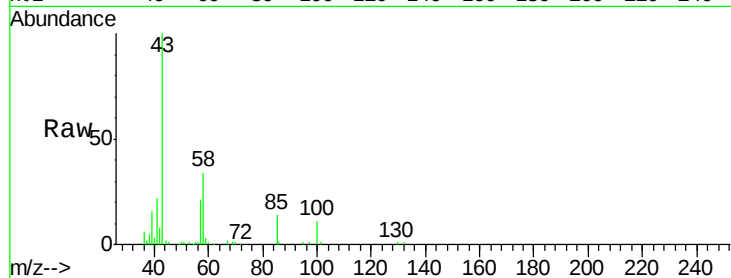
ClientSampleId :

Tot Ion: 43 Resp: 230717

Ion Ratio Lower Upper

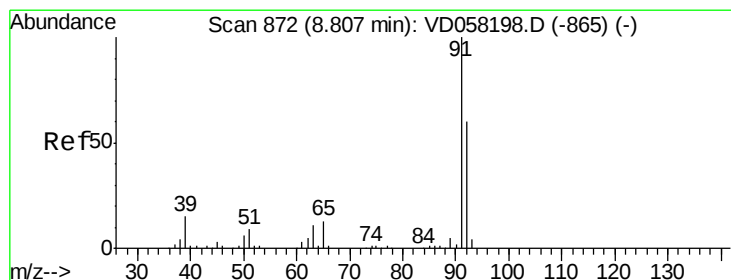
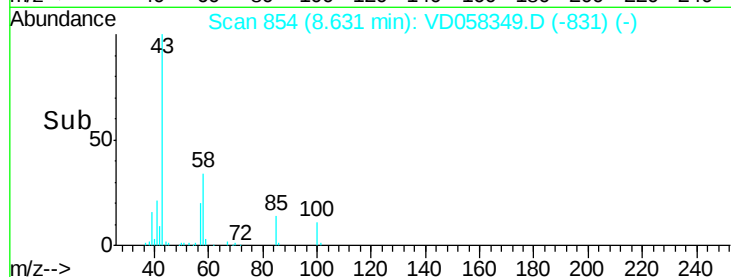
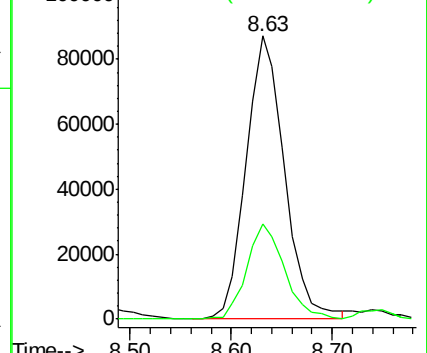
43 100

58 33.9 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 647.61 ug/l

RT: 8.85 min Scan# 876

Delta R.T. 0.04 min

Lab File: VD058349.D

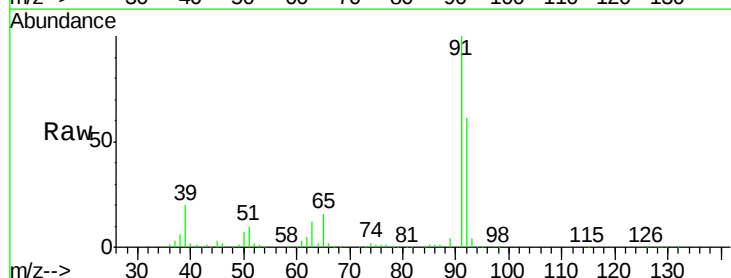
Acq: 23 Jun 2018 19:07

Tgt Ion: 92 Resp: 10324157

Ion Ratio Lower Upper

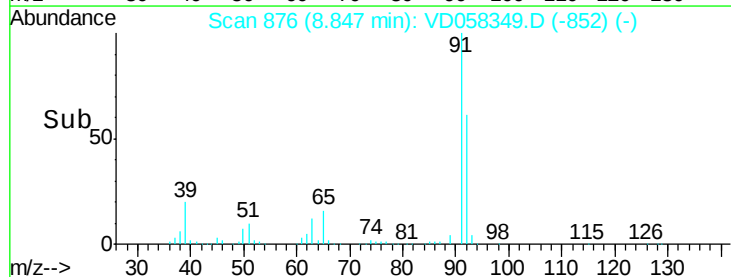
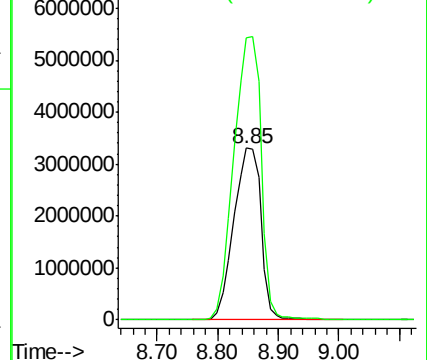
92 100

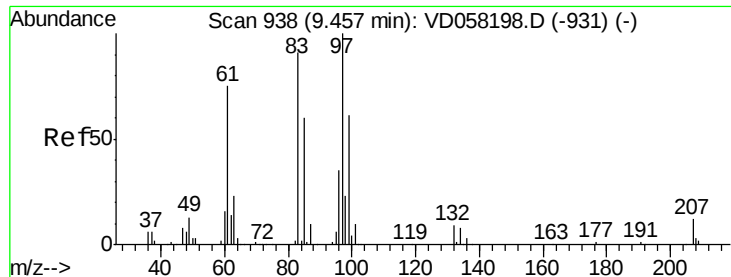
91 164.6 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

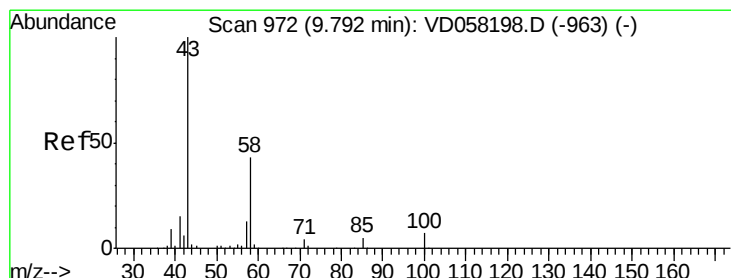
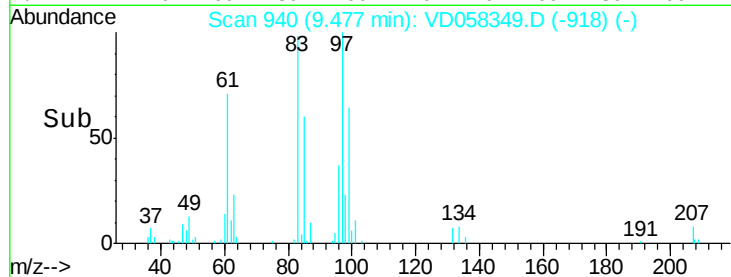
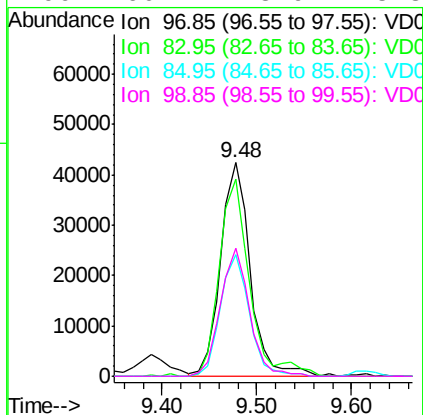
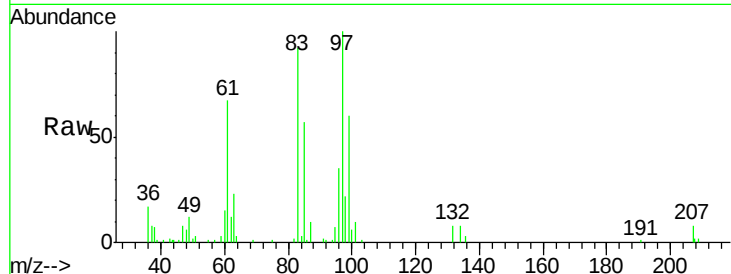




#55
 1,1,2-Trichloroethane
 Concen: 16.35 ug/l
 RT: 9.48 min Scan# 940
 Delta R.T. 0.02 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

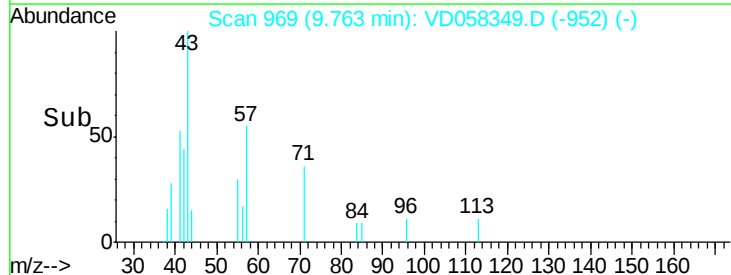
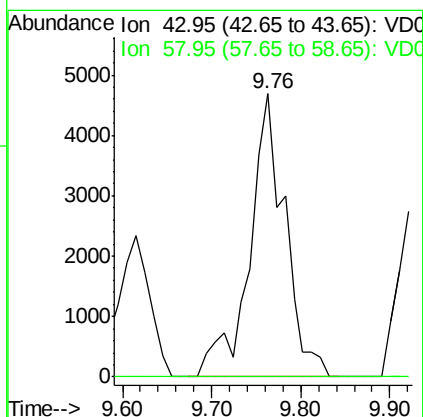
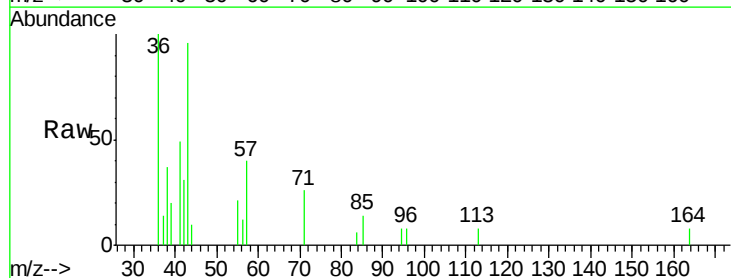
Instrument :
 MSVOA_D
 ClientSampleId :

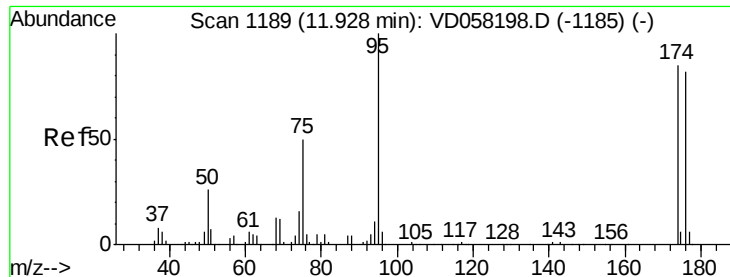
Tot Ion: 97 Resp: 92209
 Ion Ratio Lower Upper
 97 100
 83 92.3 72.9 109.3
 85 56.8 48.2 72.4
 99 60.2 48.9 73.3



#59
 2-Hexanone
 Concen: 3.03 ug/l
 RT: 9.76 min Scan# 969
 Delta R.T. -0.03 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion: 43 Resp: 12770
 Ion Ratio Lower Upper
 43 100
 58 0.0 21.7 65.1#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampled :

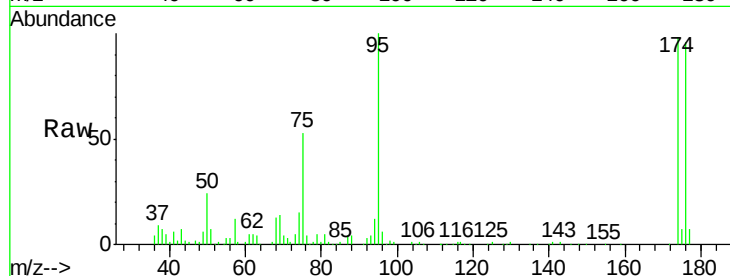
Tot Ion: 95 Resp: 260506

Ion Ratio Lower Upper

95 100

174 98.0 0.0 170.2

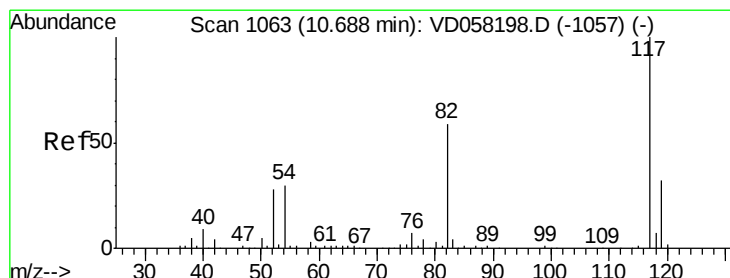
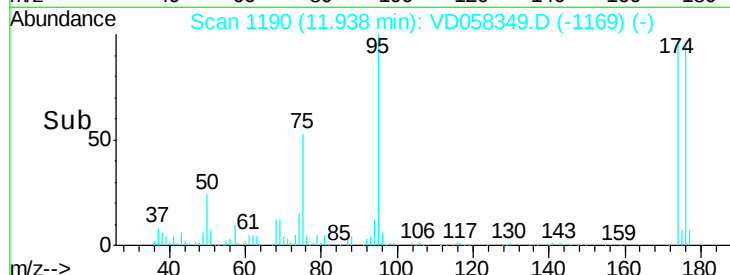
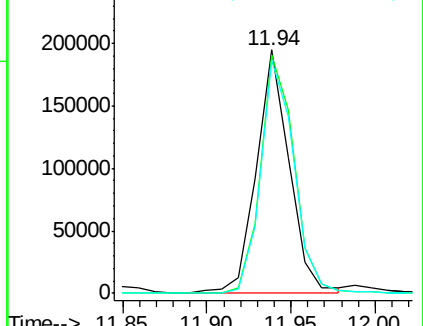
176 95.9 0.0 164.6



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: 50.00 ug/l

RT: 10.71 min Scan# 1065

Delta R.T. 0.02 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

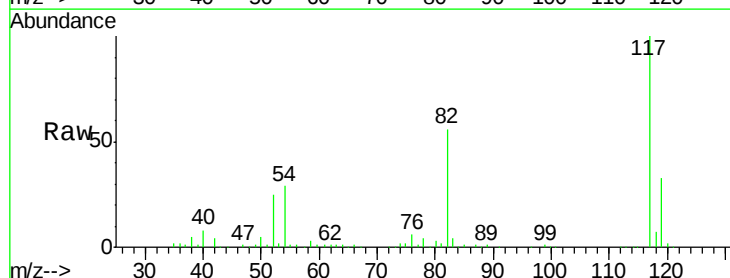
Tgt Ion: 117 Resp: 776056

Ion Ratio Lower Upper

117 100

82 56.1 47.0 70.6

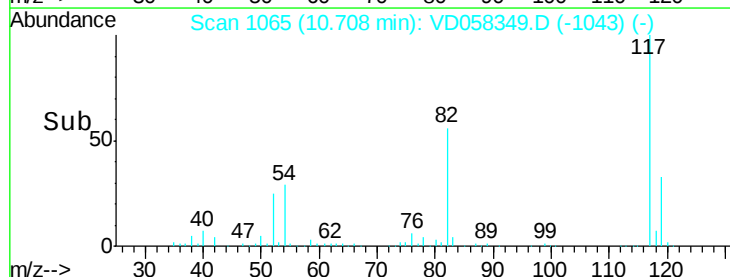
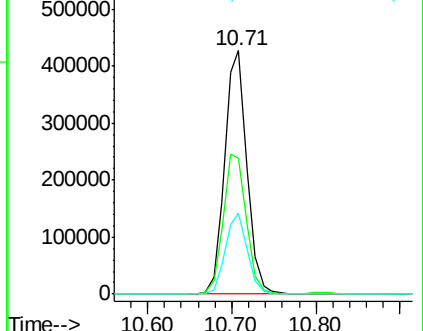
119 33.5 25.3 37.9

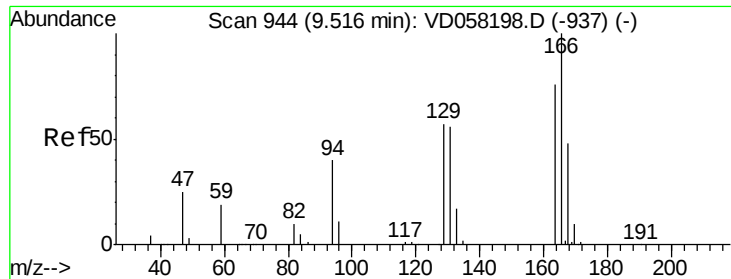


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

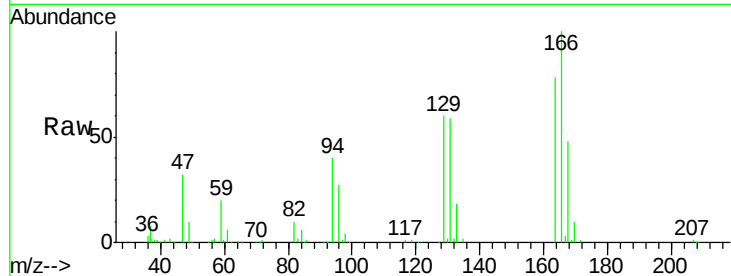




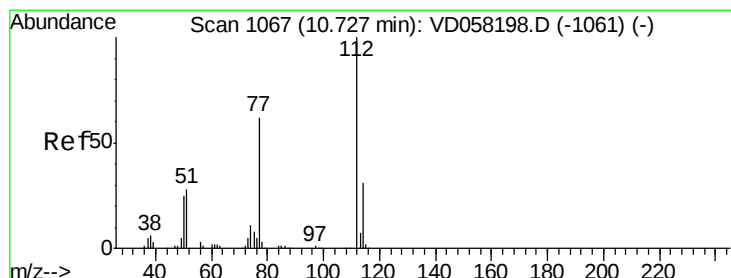
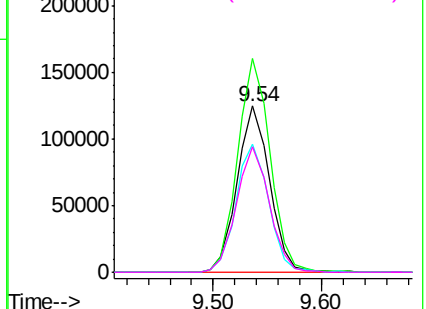
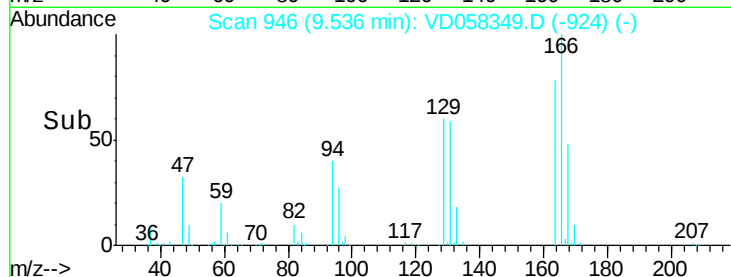
#64
Tetrachloroethene
Concen: 39.90 ug/l
RT: 9.54 min Scan# 946
Delta R.T. 0.02 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:164 Resp: 260568
Ion Ratio Lower Upper
164 100
166 128.7 105.4 158.0
129 77.5 59.6 89.4
131 75.8 59.4 89.2

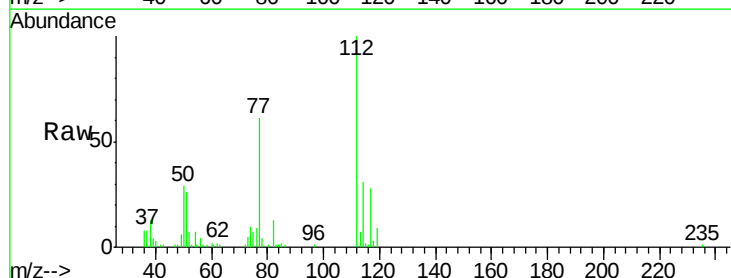


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

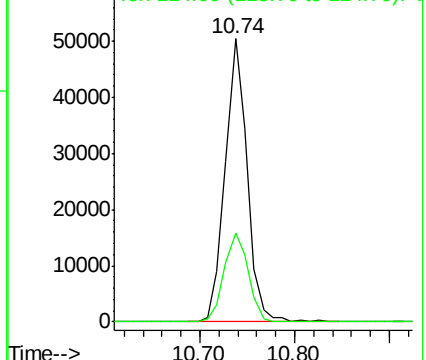
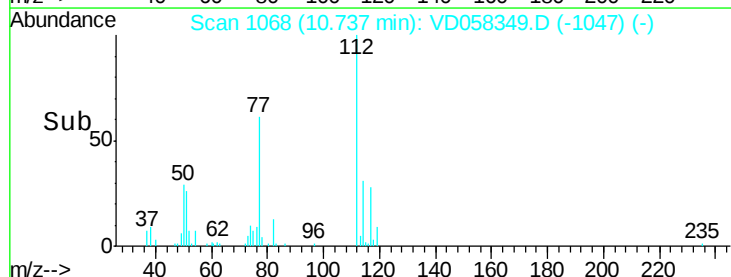


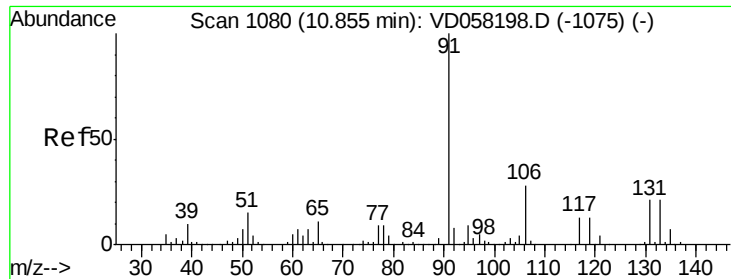
#65
Chlorobenzene
Concen: 5.60 ug/l
RT: 10.74 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Tgt Ion:112 Resp: 81291
Ion Ratio Lower Upper
112 100
114 31.4 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

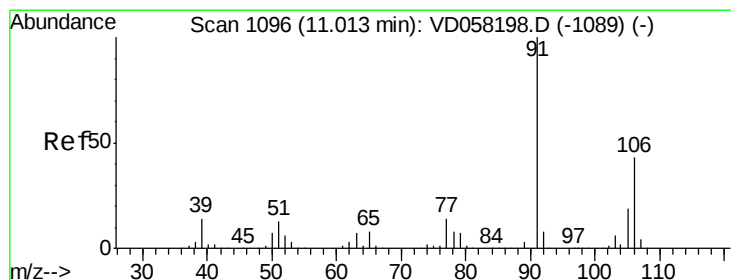
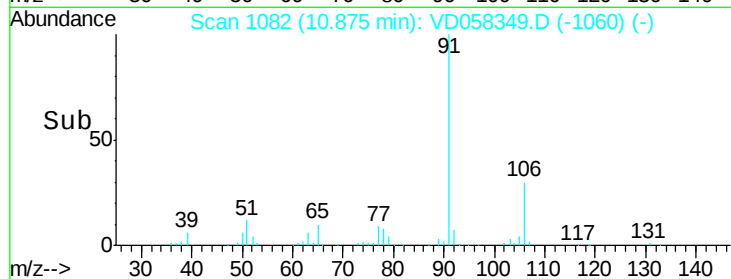
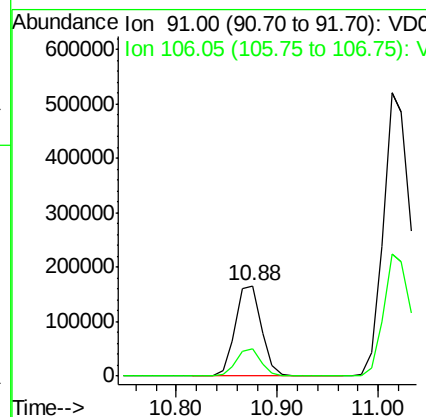
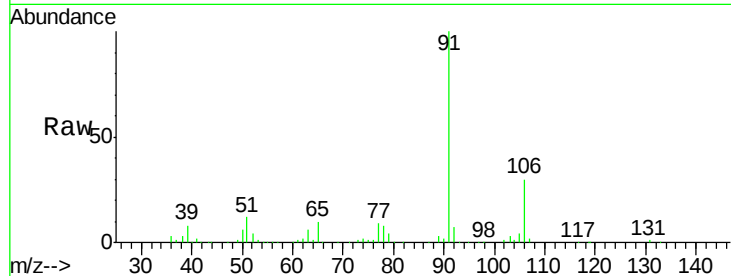




#67
Ethvl Benzene
Concen: 11.74 ug/l
RT: 10.88 min Scan# 1082
Delta R.T. 0.02 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

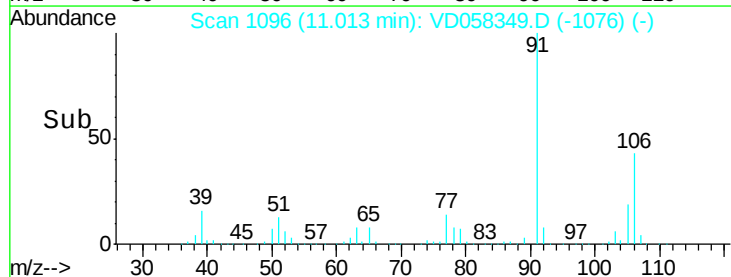
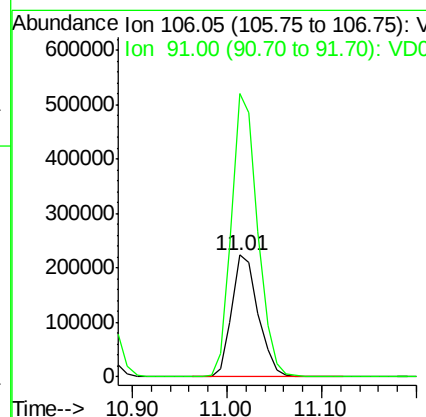
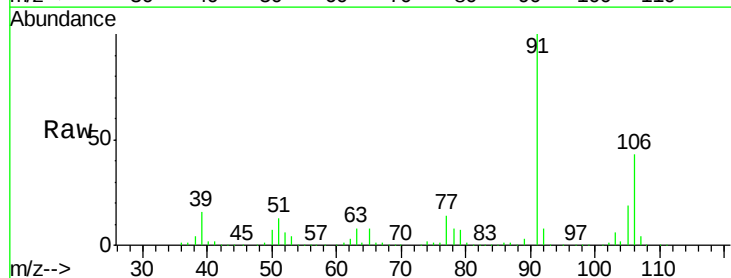
Instrument :
MSVOA_D
ClientSampled :

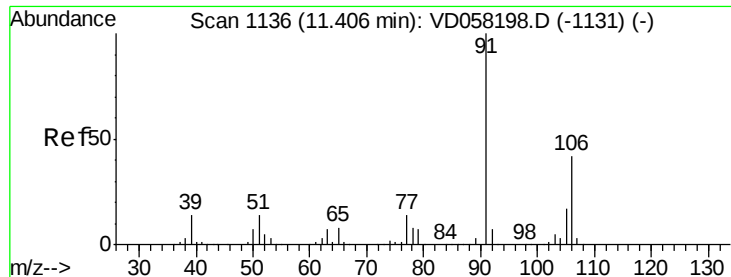
Tot Ion: 91 Resp: 300765
Ion Ratio Lower Upper
91 100
106 29.7 22.0 33.0



#68
m/p-Xylenes
Concen: 50.94 ug/l
RT: 11.01 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Tgt Ion: 106 Resp: 435379
Ion Ratio Lower Upper
106 100
91 232.3 185.0 277.6

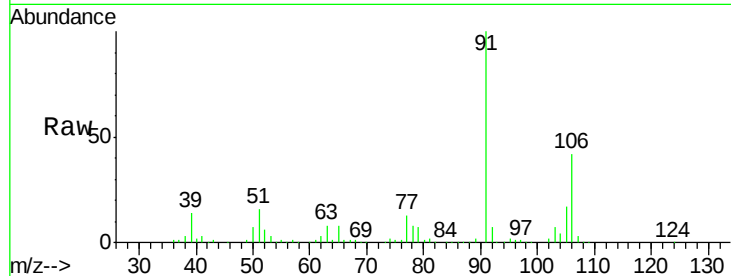




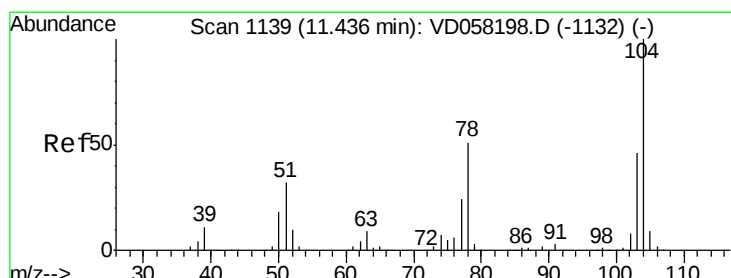
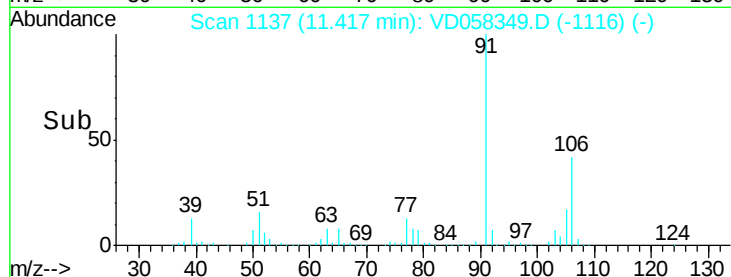
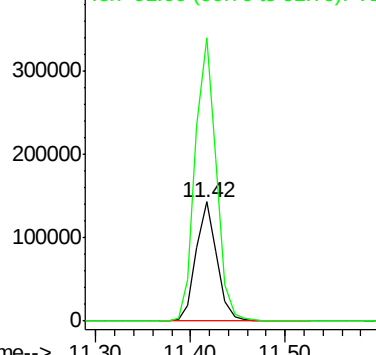
#69
o-Xylene
Concen: 26.55 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 216680
Ion Ratio Lower Upper
106 100
91 237.6 120.2 360.6

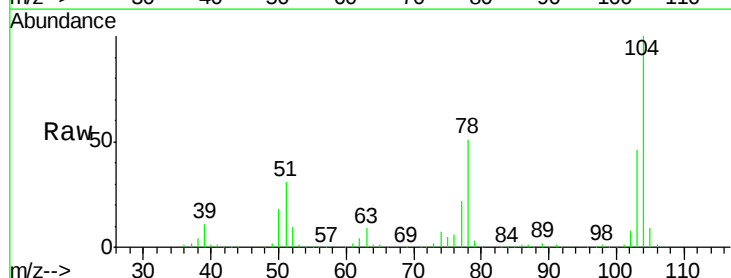


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

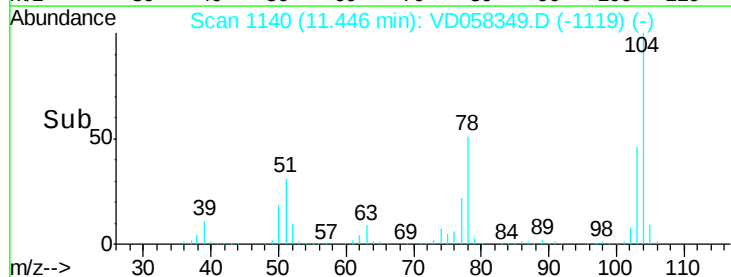
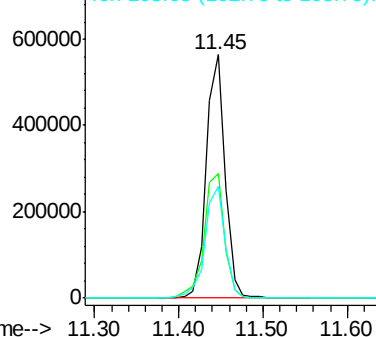


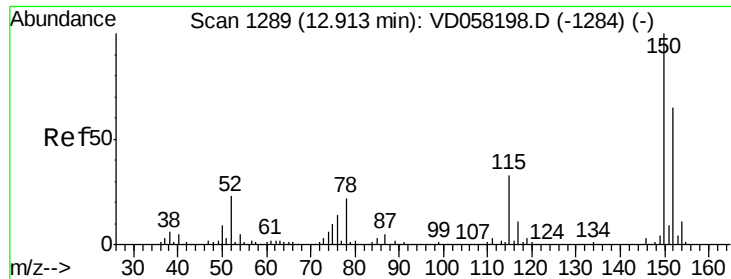
#70
Styrene
Concen: 62.61 ug/l
RT: 11.45 min Scan# 1140
Delta R.T. 0.01 min
Lab File: VD058349.D
Acq: 23 Jun 2018 19:07

Tgt Ion:104 Resp: 872071
Ion Ratio Lower Upper
104 100
78 51.0 40.8 61.2
103 46.1 37.0 55.6



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

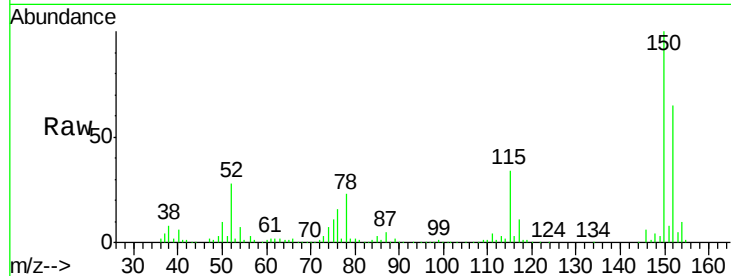
Tot Ion:152 Resp: 414537

Ion Ratio Lower Upper

152 100

115 51.3 25.1 75.3

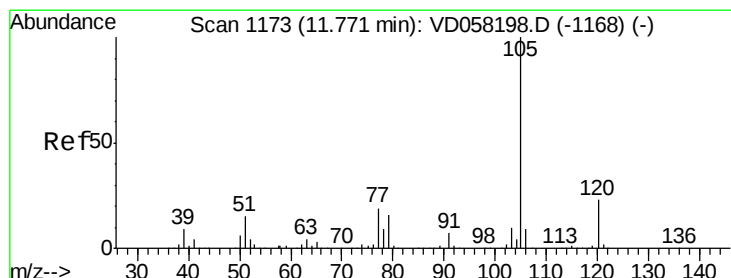
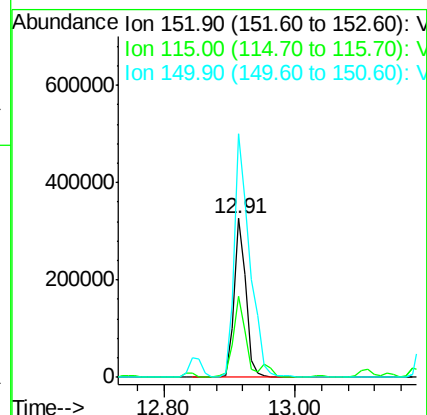
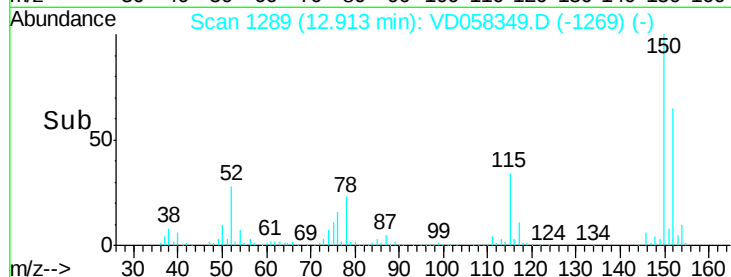
150 153.1 0.0 308.8



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



#73

Isopropylbenzene

Concen: 3.16 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058349.D

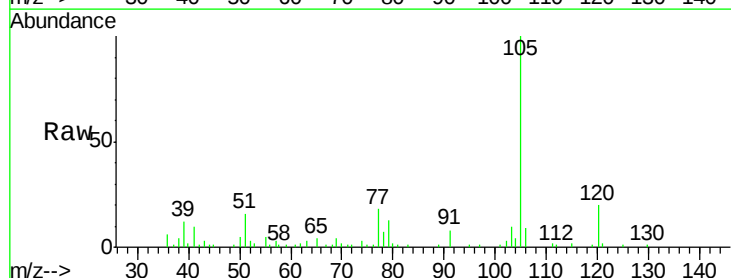
Acq: 23 Jun 2018 19:07

Tgt Ion:105 Resp: 78445

Ion Ratio Lower Upper

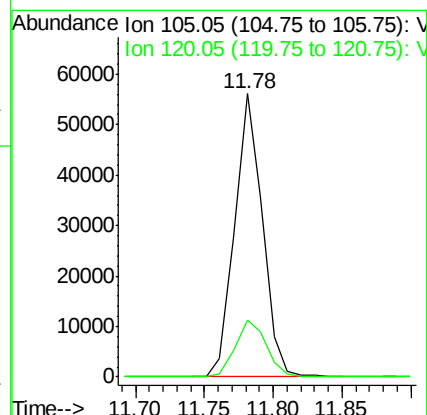
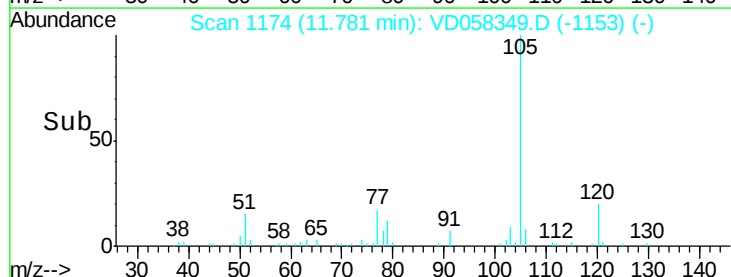
105 100

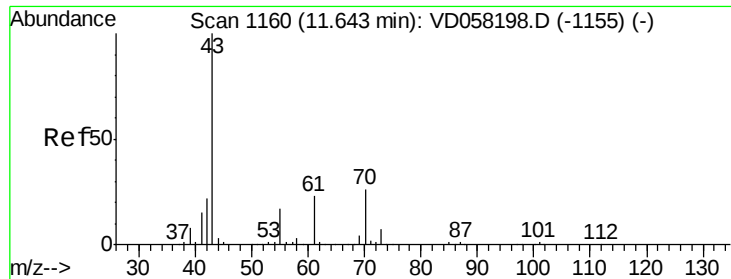
120 20.0 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 1.33 ug/l

RT: 11.60 min Scan# 1156

Delta R.T. -0.04 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 12783

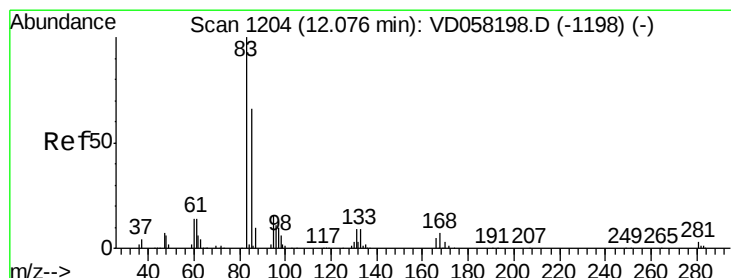
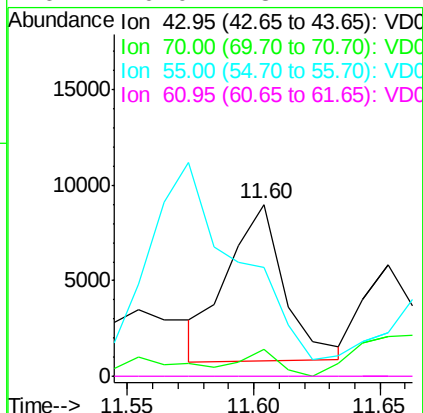
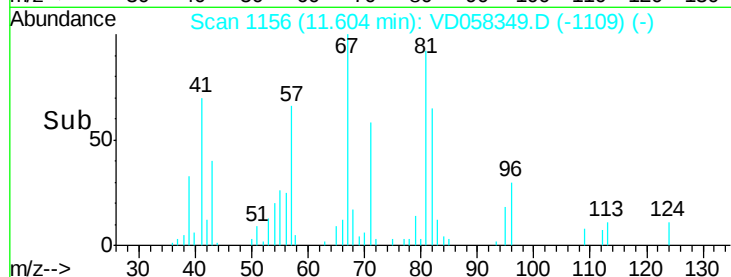
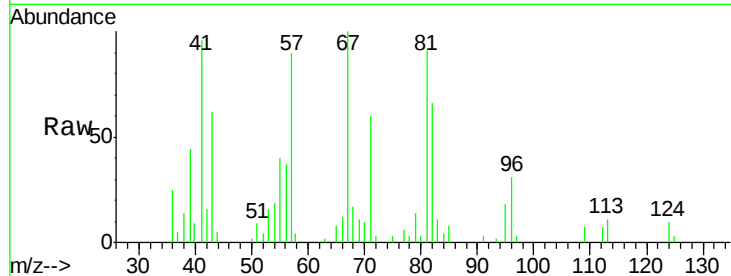
Ion Ratio Lower Upper

43 100

70 16.0 20.9 31.3#

55 63.7 13.5 20.3#

61 0.0 18.2 27.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.47 ug/l

RT: 12.10 min Scan# 1206

Delta R.T. 0.02 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

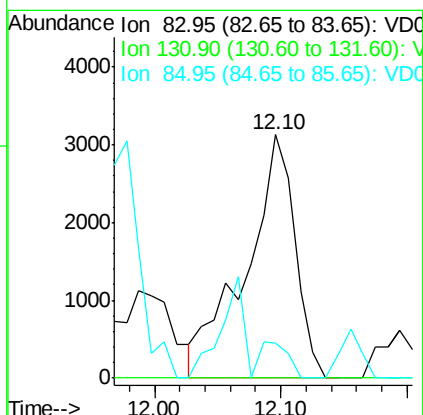
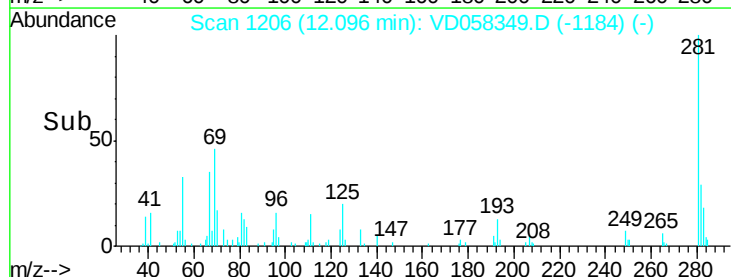
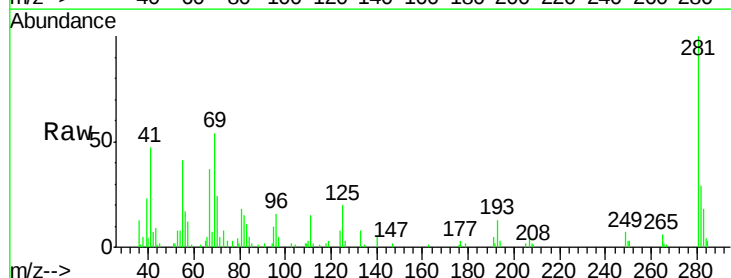
Tgt Ion: 83 Resp: 8476

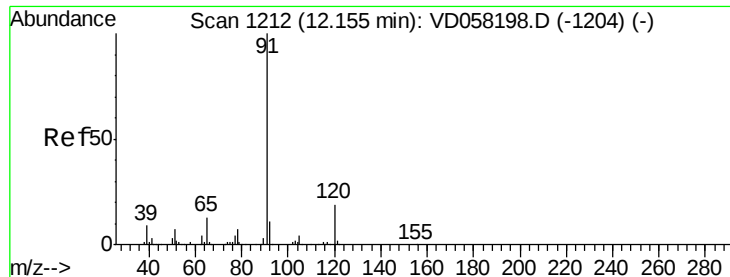
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 14.5 33.1 99.5#





#78

n-propylbenzene

Concen: 6.30 ug/l

RT: 12.16 min Scan# 1213

Delta R.T. 0.01 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

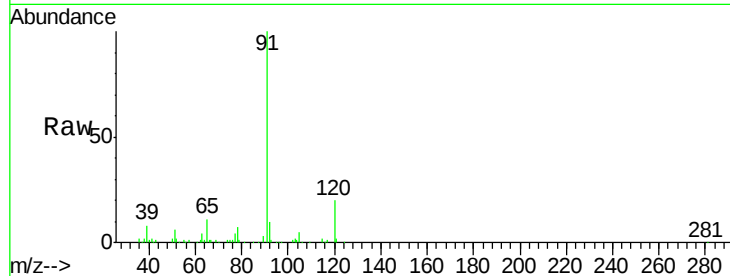
ClientSampleId :

Tot Ion: 91 Resp: 201768

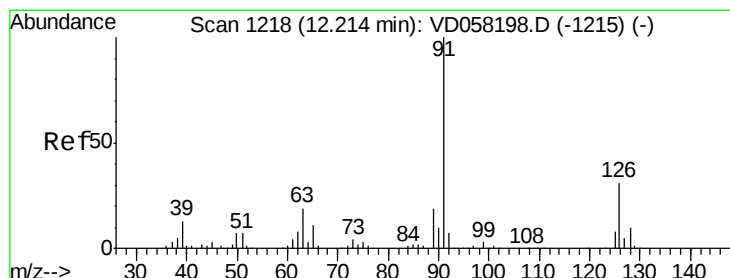
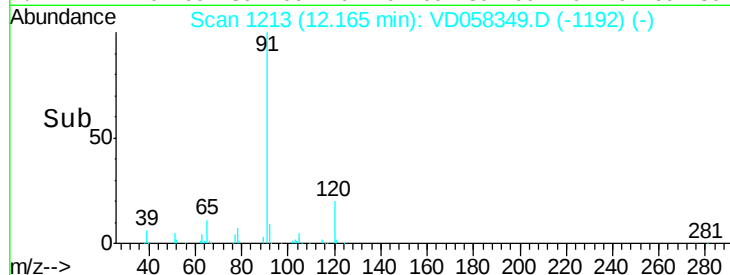
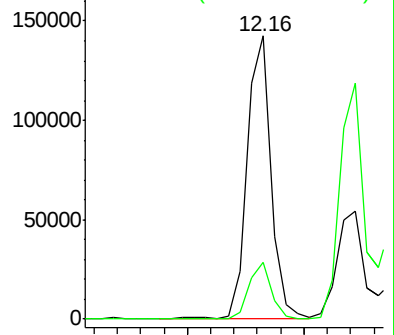
Ion Ratio Lower Upper

91 100

120 20.1 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): VDC



#79

2-Chlorotoluene

Concen: 5.67 ug/l

RT: 12.24 min Scan# 1221

Delta R.T. 0.03 min

Lab File: VD058349.D

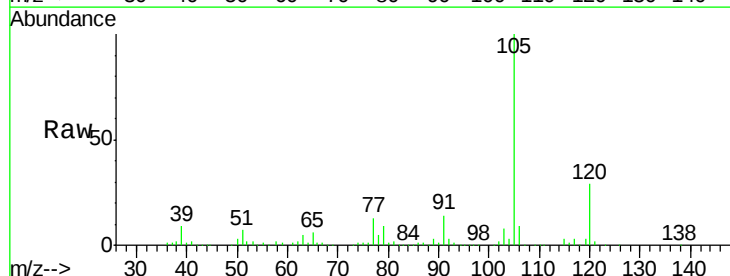
Acq: 23 Jun 2018 19:07

Tgt Ion: 91 Resp: 103834

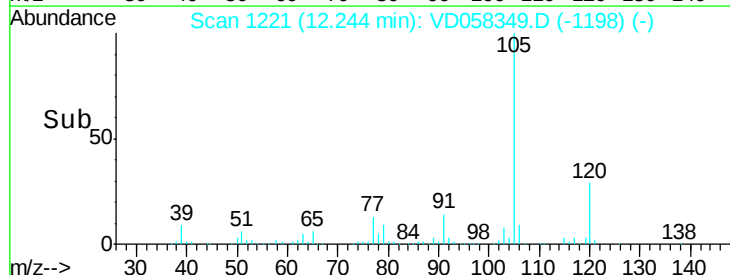
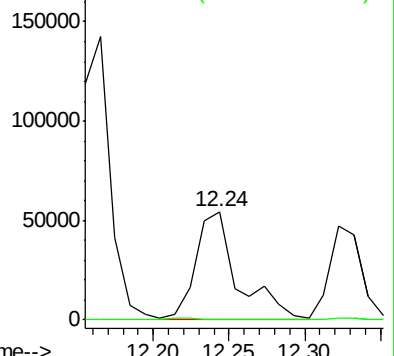
Ion Ratio Lower Upper

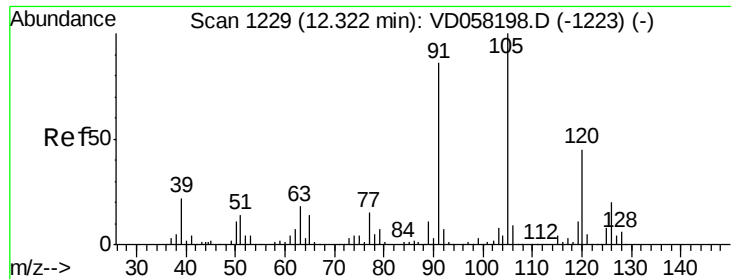
91 100

126 0.8 14.9 44.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC





#80

1,3,5-Trimethylbenzene

Concen: 29.22 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

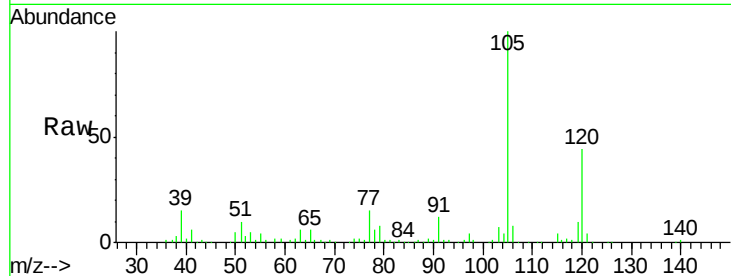
ClientSampleId :

Tot Ion:105 Resp: 565174

Ion Ratio Lower Upper

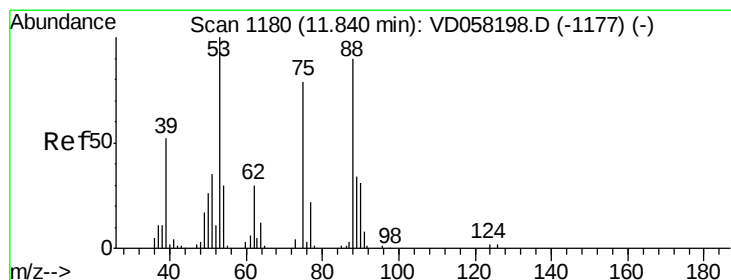
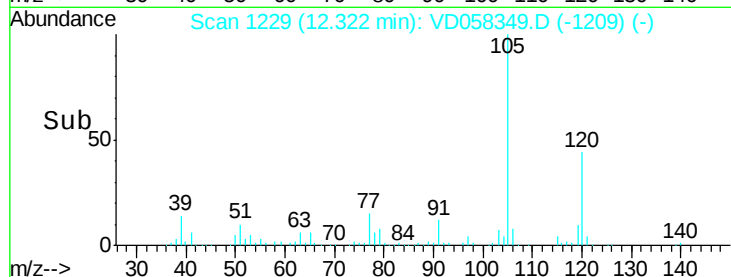
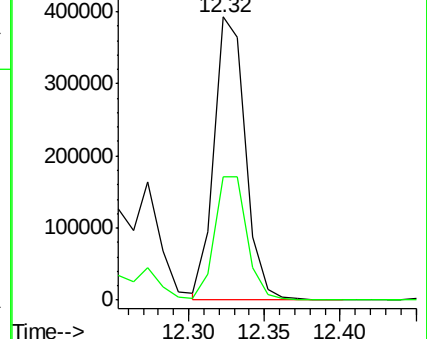
105 100

120 43.7 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 88.99 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

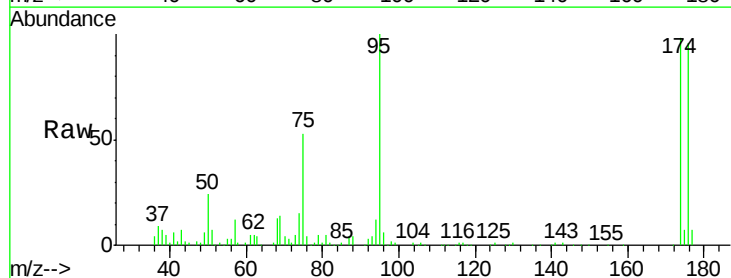
Tgt Ion: 75 Resp: 131363

Ion Ratio Lower Upper

75 100

53 0.9 100.8 151.2#

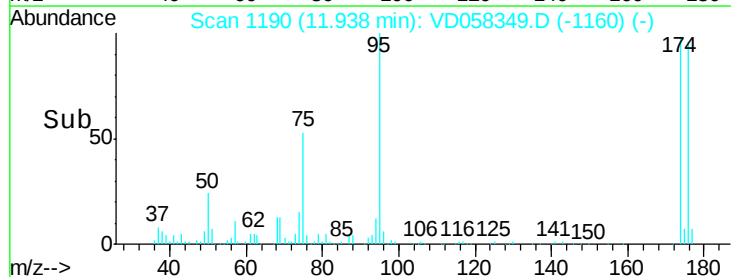
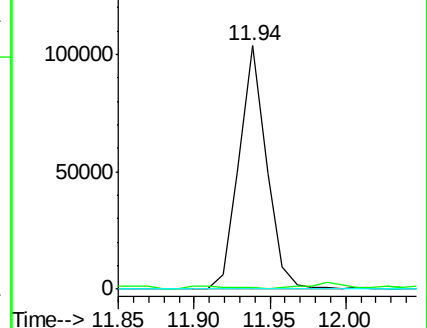
89 0.0 34.6 52.0#

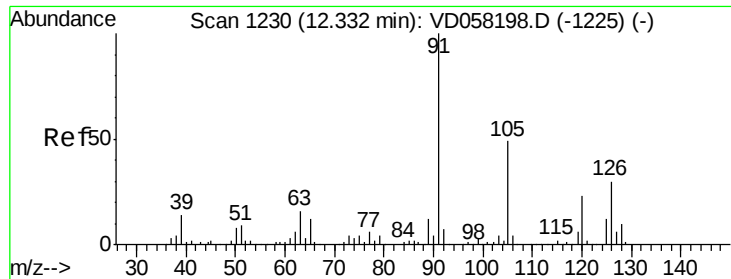


Abundance Ion 75.00 (74.70 to 75.70): VDC

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: 12.32 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

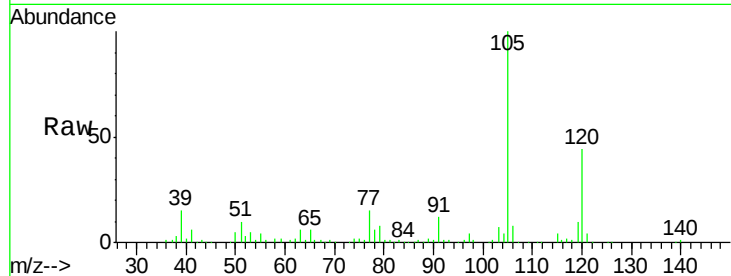
ClientSampled :

Tot Ion: 91 Resp: 69631

Ion Ratio Lower Upper

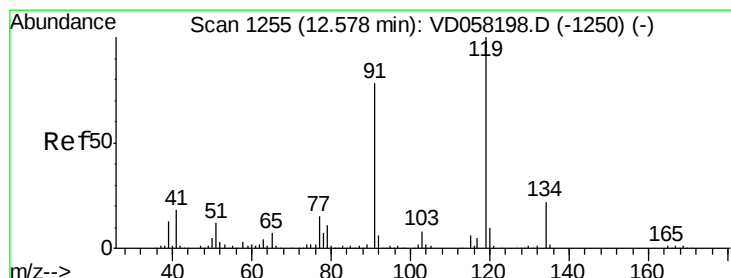
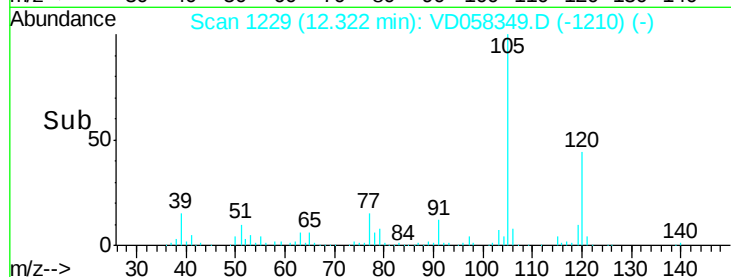
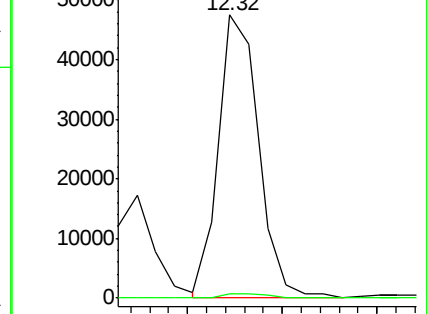
91 100

126 1.7 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#83

tert-Butylbenzene

Concen: 1.39 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

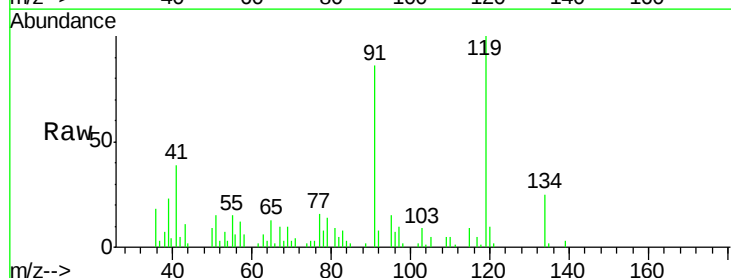
Tgt Ion: 119 Resp: 30918

Ion Ratio Lower Upper

119 100

91 86.3 38.9 116.6

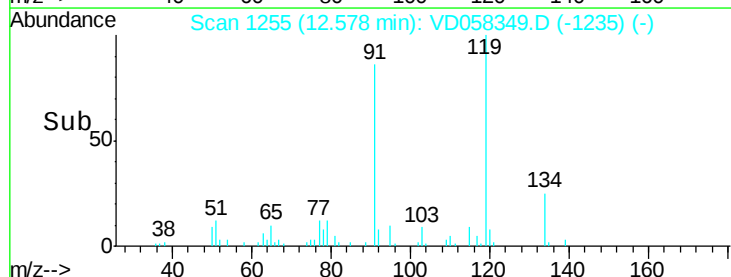
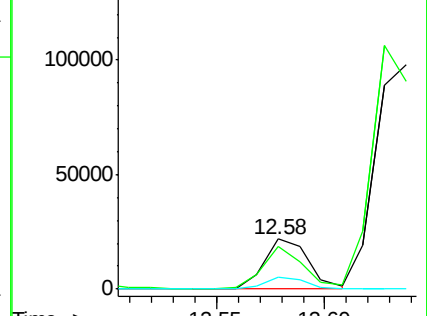
134 24.9 11.2 33.5

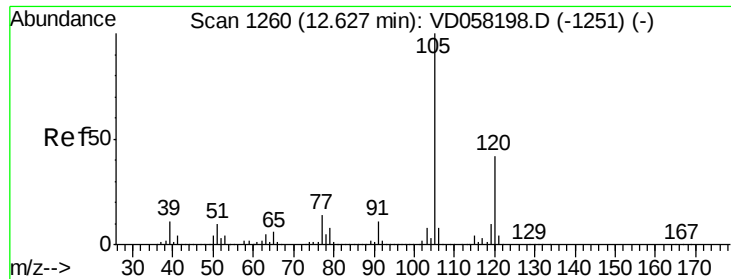


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

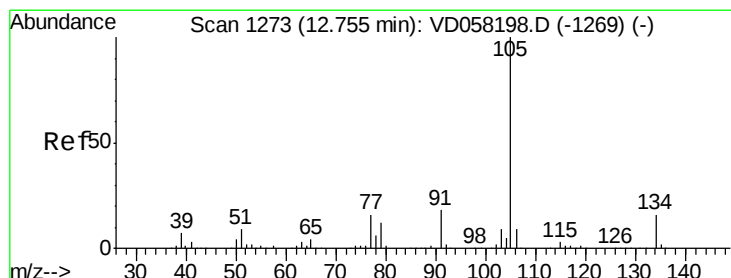
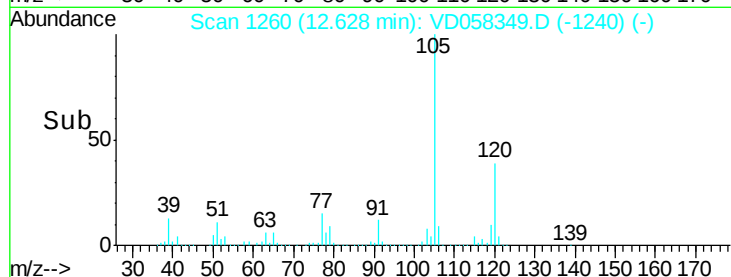
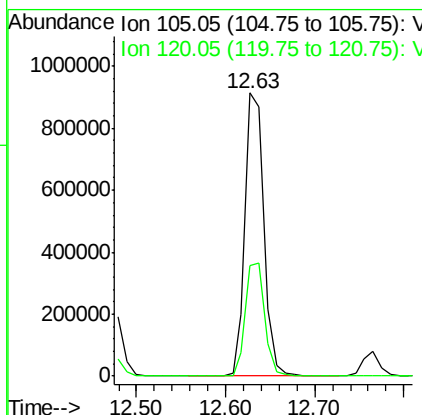
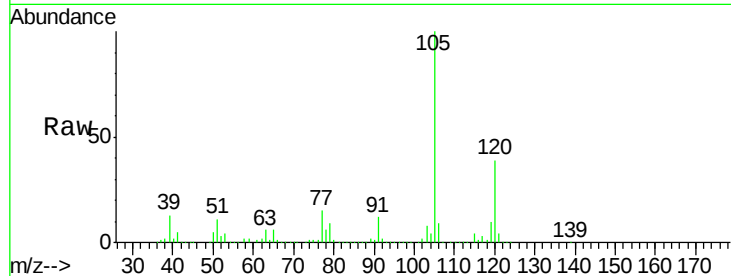




#84
 1,2,4-Trimethylbenzene
 Concen: 63.45 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

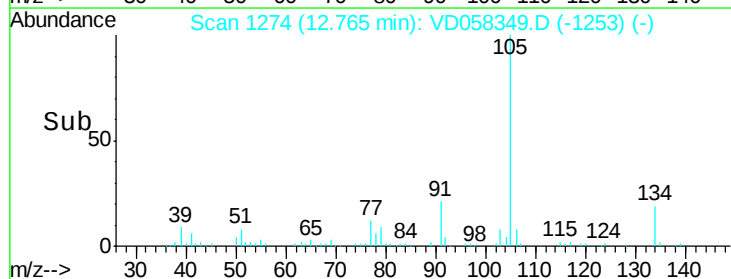
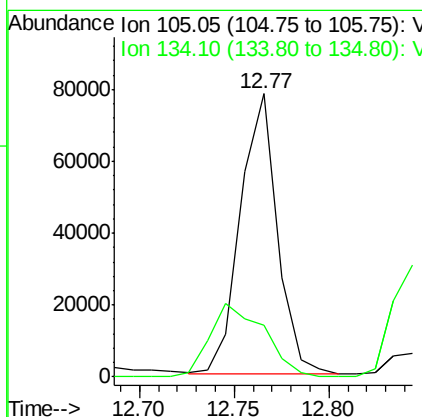
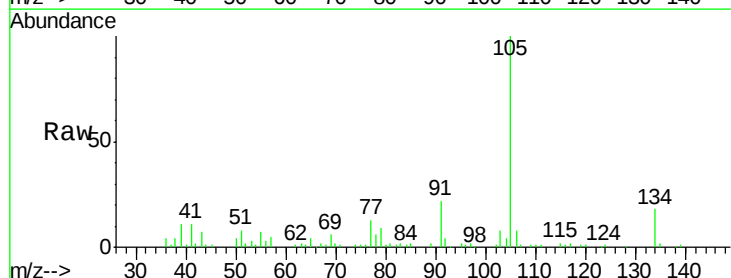
Instrument :
 MSVOA_D
 ClientSampleId :

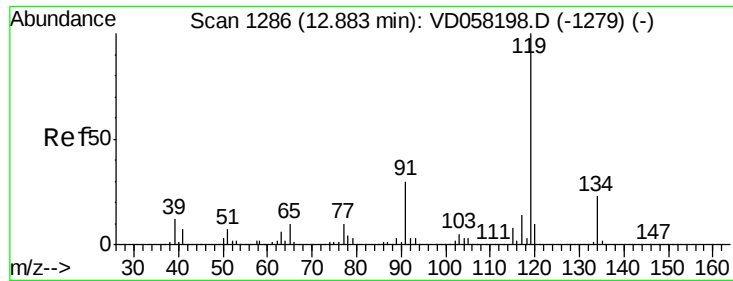
Tot Ion:105 Resp: 1333884
 Ion Ratio Lower Upper
 105 100
 120 39.2 20.8 62.4



#85
 sec-Butylbenzene
 Concen: 4.06 ug/l
 RT: 12.77 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion:105 Resp: 105838
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.1 24.3

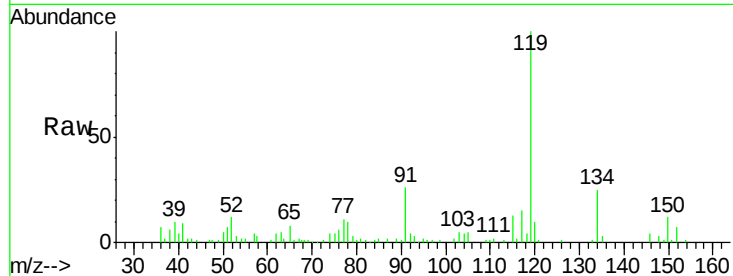




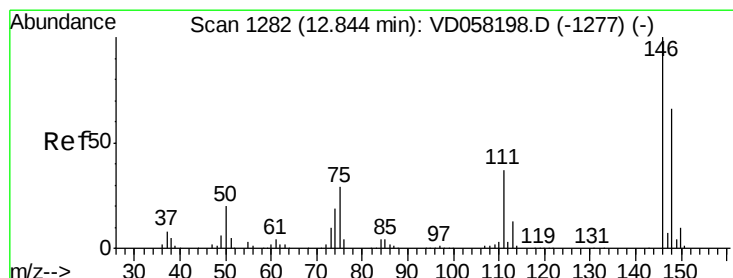
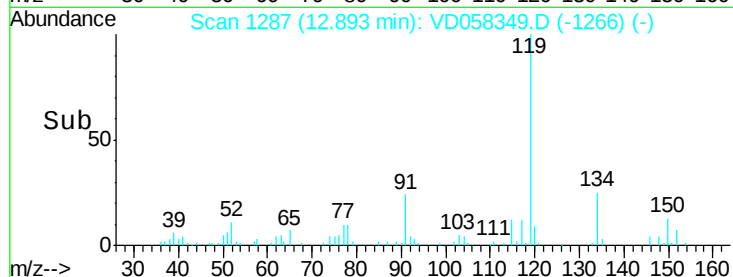
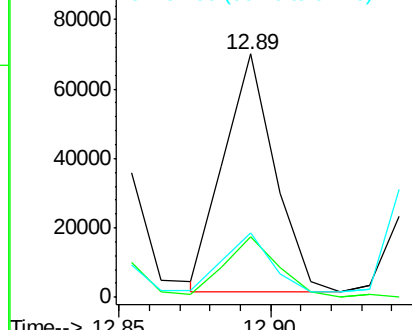
#86
 p-Isopropyltoluene
 Concen: 3.82 ug/l
 RT: 12.89 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:119 Resp: 80759
 Ion Ratio Lower Upper
 119 100
 134 24.6 11.6 34.8
 91 26.3 15.0 45.1

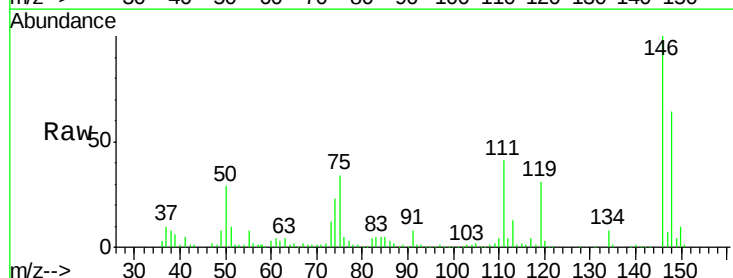


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V

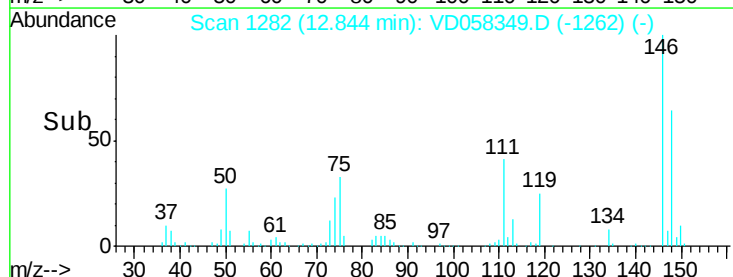
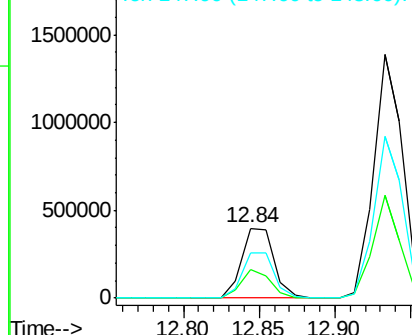


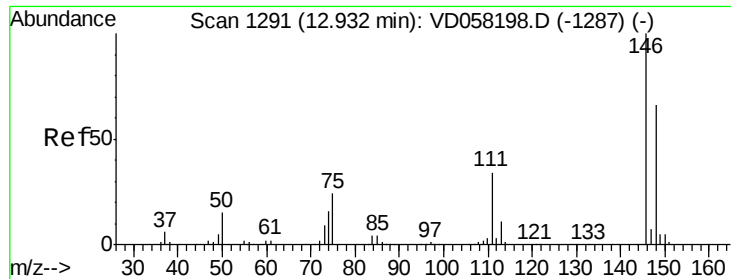
#87
 1,3-Dichlorobenzene
 Concen: 45.48 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion:146 Resp: 586952
 Ion Ratio Lower Upper
 146 100
 111 41.5 18.4 55.0
 148 64.1 32.8 98.4



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

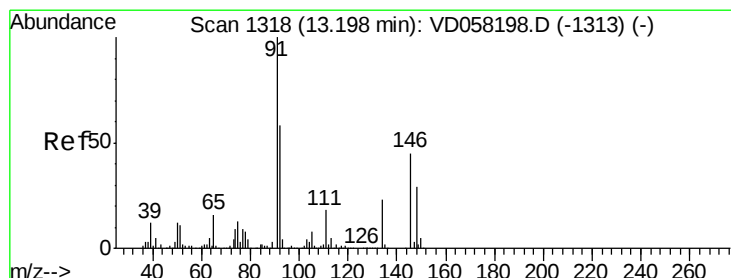
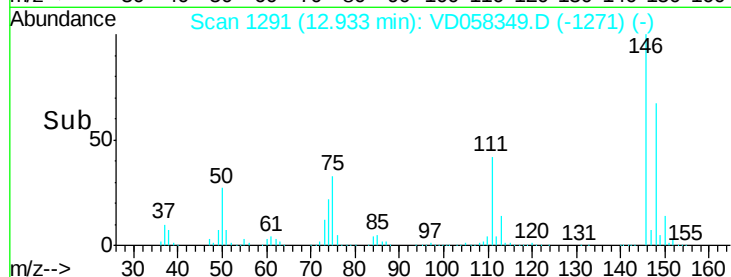
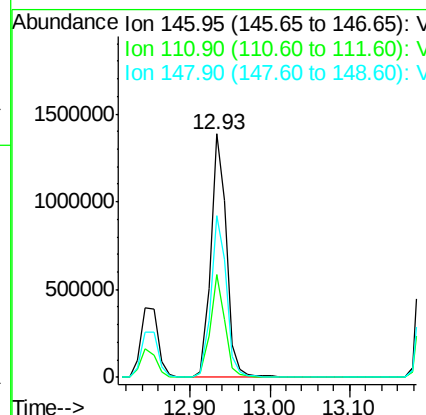
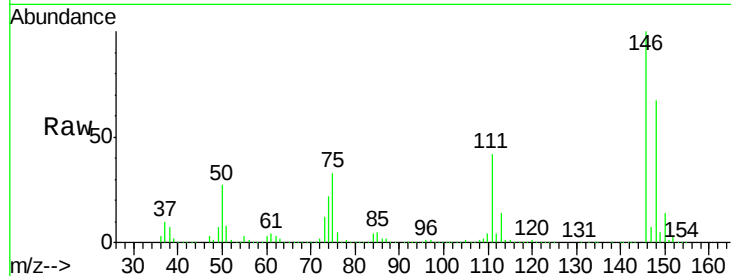




#88
 1,4-Dichlorobenzene
 Concen: 150.21 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

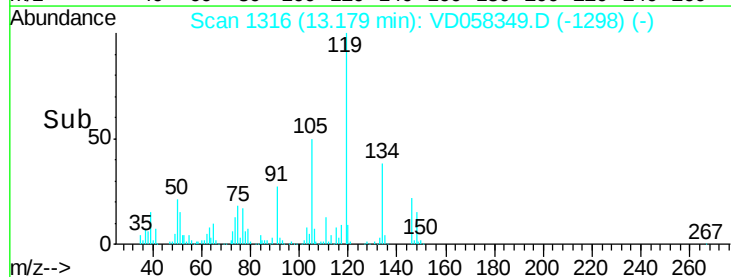
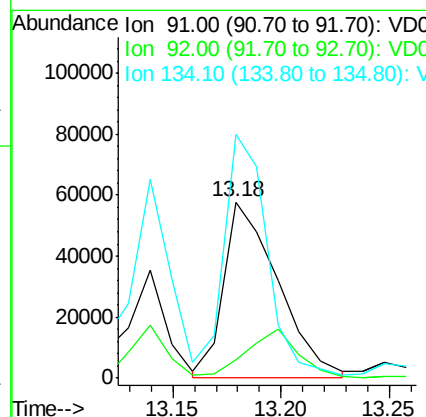
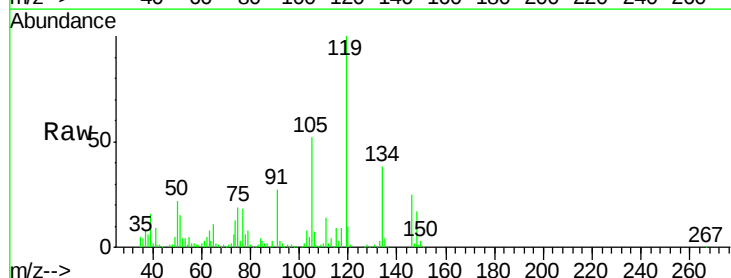
Instrument :
 MSVOA_D
 ClientSampleId :

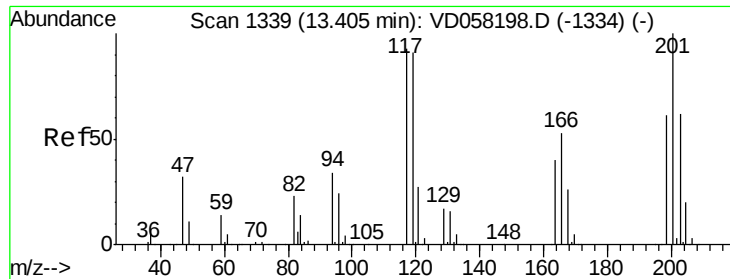
Tot Ion:146 Resp: 1892936
 Ion Ratio Lower Upper
 146 100
 111 42.4 17.2 51.5
 148 66.6 33.1 99.3



#89
 n-Butylbenzene
 Concen: 4.59 ug/l
 RT: 13.18 min Scan# 1316
 Delta R.T. -0.02 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion: 91 Resp: 101785
 Ion Ratio Lower Upper
 91 100
 92 10.1 29.2 87.6#
 134 138.1 11.3 33.8#





#90

Hexachloroethane

Concen: 2.59 ug/l

RT: 13.38 min Scan# 1336

Delta R.T. -0.03 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

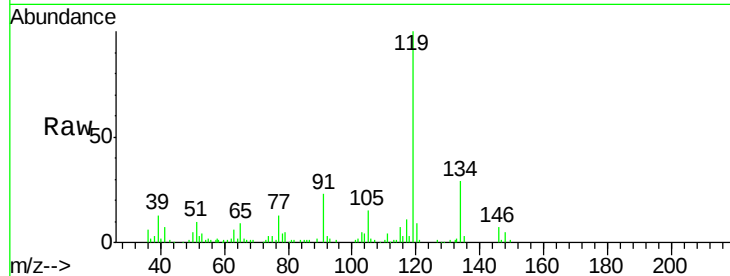
ClientSampled :

Tot Ion:117 Resp: 14201

Ion Ratio Lower Upper

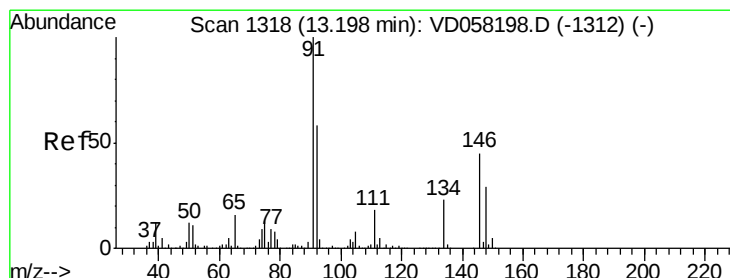
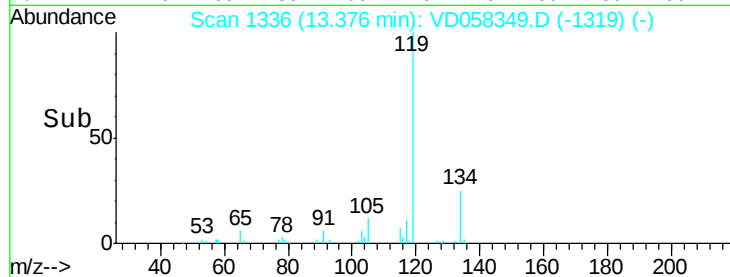
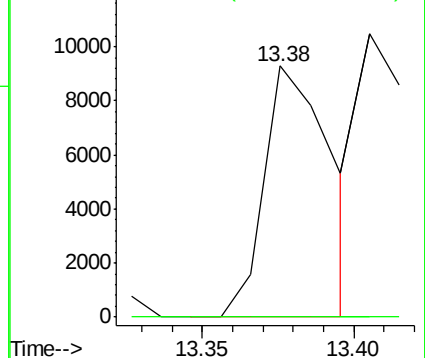
117 100

201 0.0 53.8 161.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#91

1,2-Dichlorobenzene

Concen: 568.71 ug/l

RT: 13.21 min Scan# 1319

Delta R.T. 0.01 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

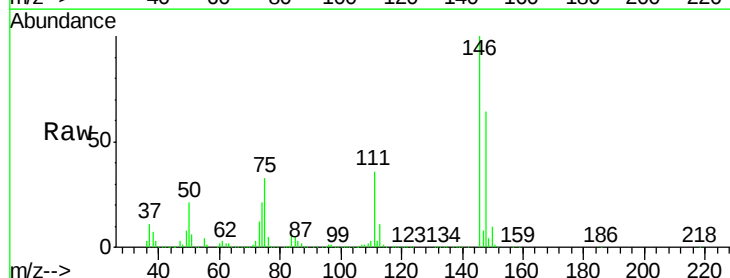
Tgt Ion:146 Resp: 6245807

Ion Ratio Lower Upper

146 100

111 35.9 19.6 58.7

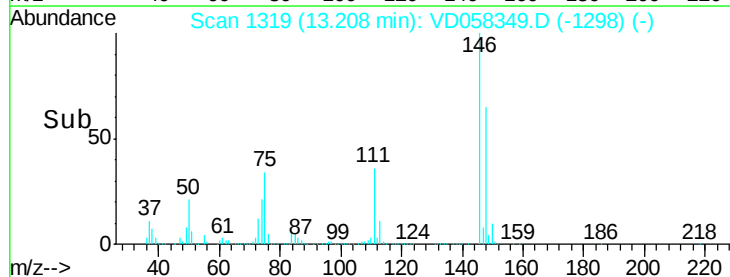
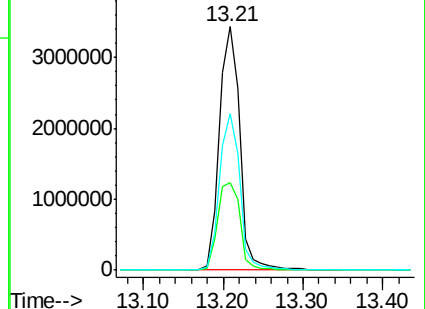
148 64.5 32.0 96.2

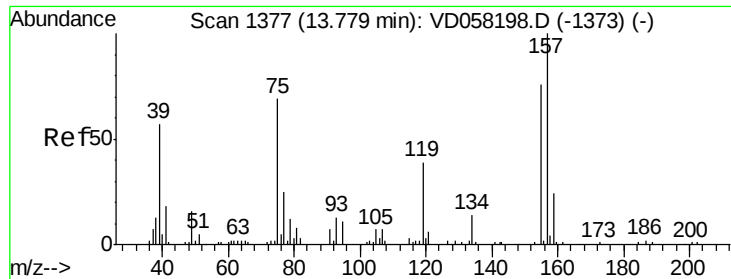


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

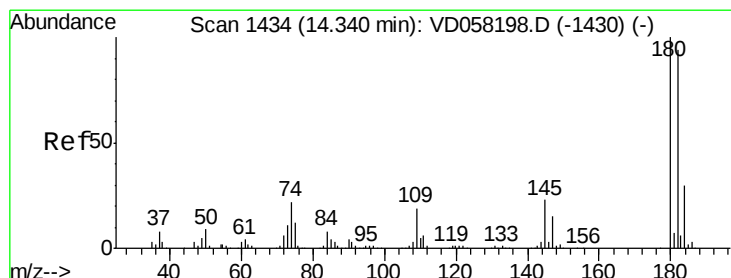
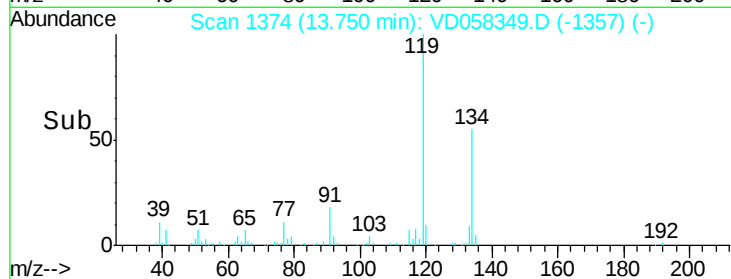
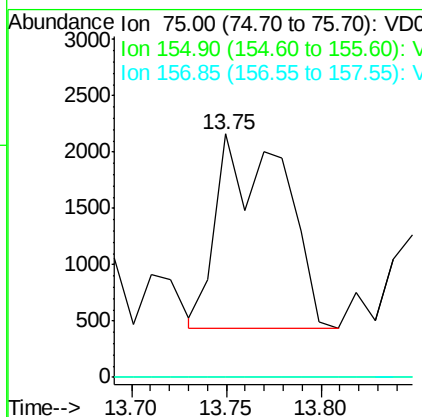
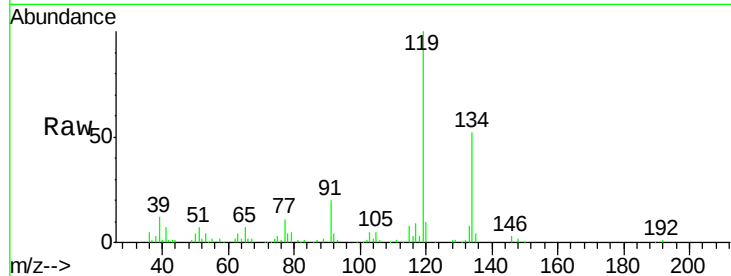




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.64 ug/l
 RT: 13.75 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

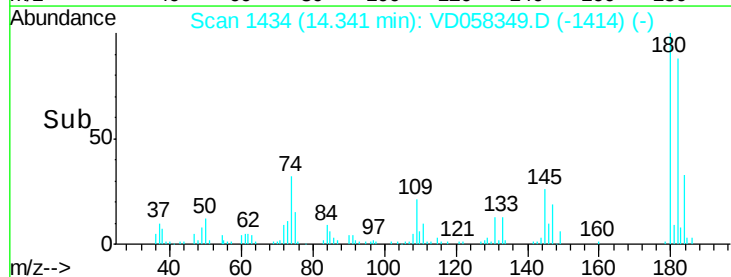
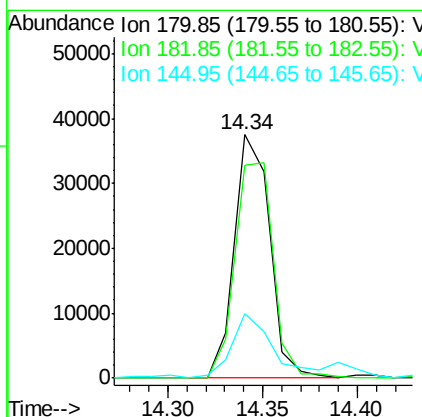
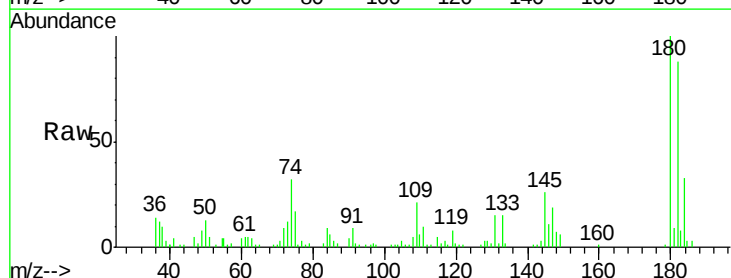
Instrument :
 MSVOA_D
 ClientSampleId :

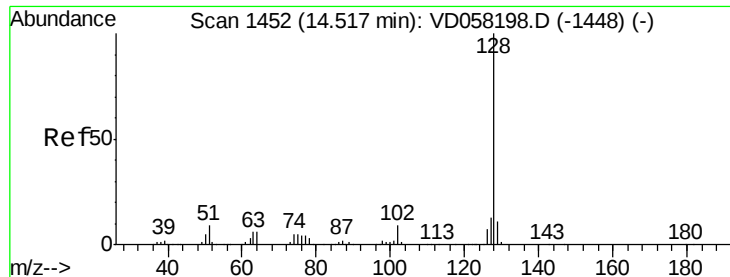
Tot Ion: 75 Resp: 4259
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.5 163.5#
 157 0.0 72.0 215.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 4.61 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VD058349.D
 Acq: 23 Jun 2018 19:07

Tgt Ion:180 Resp: 48405
 Ion Ratio Lower Upper
 180 100
 182 87.7 47.1 141.3
 145 26.4 11.7 35.0





#95

Naphthalene

Concen: 56.19 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

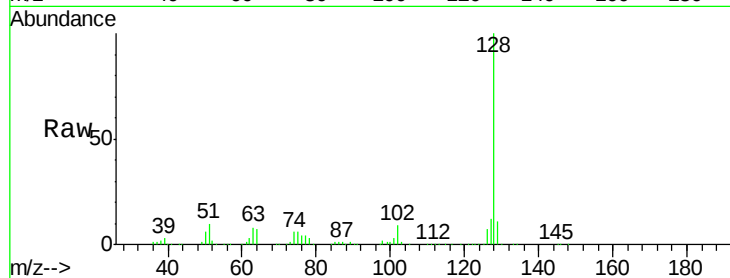
Tot Ion:128 Resp: 777486

Ion Ratio Lower Upper

128 100

127 12.0 10.0 15.0

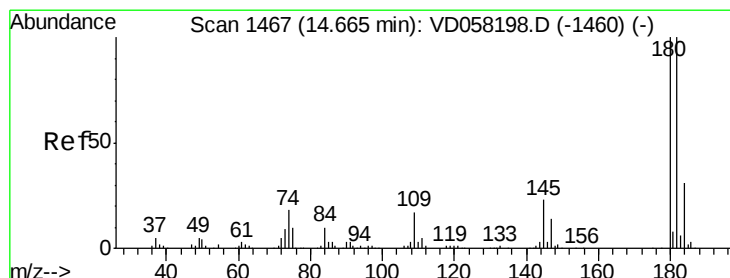
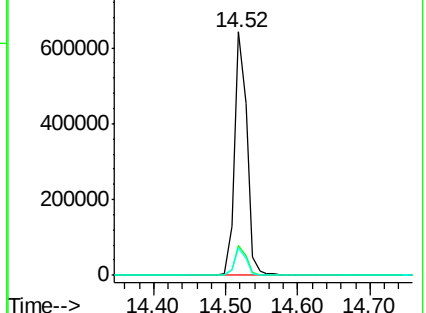
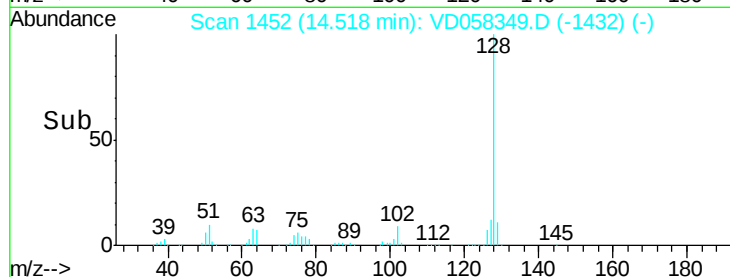
129 11.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.78 ug/l

RT: 14.67 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VD058349.D

Acq: 23 Jun 2018 19:07

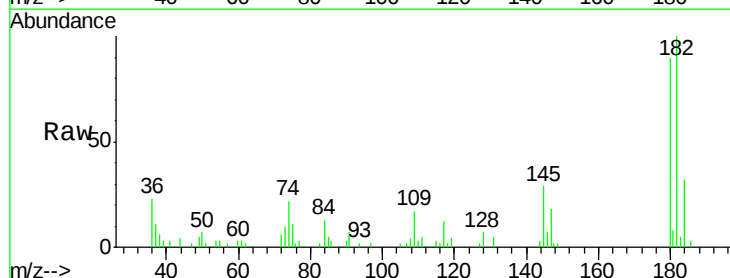
Tgt Ion:180 Resp: 16386

Ion Ratio Lower Upper

180 100

182 110.8 49.9 149.6

145 31.8 11.7 35.1



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

