

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD083118\
 Data File : VD059930.D
 Acq On : 31 Aug 2018 12:34
 Operator : JC/SY
 Sample : VD0831SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Quant Time: Aug 31 14:34:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1266937	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.43	114	1759176	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1505591	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.36	152	793394	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	528115	49.46	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	98.92%	
35) Dibromofluoromethane	6.29	113	678748	49.21	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	98.42%	
50) Toluene-d8	9.43	98	1904304	49.75	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.41	95	731182	47.03	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	94.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	182901	16.150	ug/l	100
3) Chloromethane	1.74	50	172308	16.795	ug/l	98
4) Vinyl Chloride	1.84	62	142037	17.656	ug/l	95
5) Bromomethane	2.11	94	14444	10.400	ug/l	89
6) Chloroethane	2.22	64	33519	11.521	ug/l	96
7) Trichlorofluoromethane	2.48	101	166012	17.838	ug/l	99
8) Diethyl Ether	2.80	74	41563	19.907	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.06	101	120994	21.229	ug/l	96
10) Methyl Iodide	3.21	142	93220	17.755	ug/l	93
11) Tert butyl alcohol	3.95	59	87570	107.477	ug/l	98
12) 1,1-Dichloroethene	3.05	96	91247	20.565	ug/l	93
13) Acrolein	2.96	56	24650	69.753	ug/l	99
14) Allyl chloride	3.51	41	190522	18.981	ug/l	95
15) Acrylonitrile	4.06	53	312016	102.261	ug/l	97
16) Acetone	3.13	43	202953	104.321	ug/l	98
17) Carbon Disulfide	3.28	76	212620	15.438	ug/l	100
18) Methyl Acetate	3.53	43	74902	18.443	ug/l	96
19) Methyl tert-butyl Ether	4.10	73	501002	19.960	ug/l	99
20) Methylene Chloride	3.69	84	300734	21.002	ug/l	97
21) trans-1,2-Dichloroethene	4.07	96	224379	18.354	ug/l	99
22) Diisopropyl ether	4.83	45	1036706	20.251	ug/l	99
23) Vinyl Acetate	4.78	43	2981914	104.200	ug/l	100
24) 1,1-Dichloroethane	4.73	63	428548	19.377	ug/l	100
25) 2-Butanone	5.59	43	530147	92.009	ug/l	97
26) 2,2-Dichloropropane	5.56	77	373820	20.220	ug/l	94
27) cis-1,2-Dichloroethene	5.57	96	264443	19.756	ug/l	99
28) Bromochloromethane	5.90	49	221830	20.929	ug/l	99
29) Tetrahydrofuran	5.93	42	284863	103.847	ug/l	99
30) Chloroform	6.08	83	458431	20.397	ug/l	99
31) Cyclohexane	6.34	56	343493	16.894	ug/l	96
32) 1,1,1-Trichloroethane	6.26	97	362065	18.981	ug/l	99
36) 1,1-Dichloropropene	6.50	75	302479	18.968	ug/l	97
37) Ethyl Acetate	5.67	43	255495	20.589	ug/l	99
38) Carbon Tetrachloride	6.47	117	303616	18.866	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	306888	17.812	ug/l	96
40) Benzene	6.77	78	805244	19.420	ug/l	100
41) Methacrylonitrile	5.93	41	285643	45.696	ug/l #	77
42) 1,2-Dichloroethane	6.87	62	265612	19.954	ug/l	97
43) Isopropyl Acetate	8.33	43	320808	19.872	ug/l #	97
44) Trichloroethene	7.72	130	234872	19.238	ug/l	97
45) 1,2-Dichloropropane	8.08	63	231842	20.003	ug/l	95
46) Dibromomethane	8.19	93	146320	19.634	ug/l	96
47) Bromodichloromethane	8.47	83	341938	20.268	ug/l	98
48) Methyl methacrylate	8.22	41	186001	19.764	ug/l	98
49) 1,4-Dioxane	8.21	88	35826	426.401	ug/l	92
51) 4-Methyl-2-Pentanone	9.32	43	1079358	89.679	ug/l	98
52) Toluene	9.53	92	523487	19.688	ug/l	98
53) t-1,3-Dichloropropene	9.91	75	310707	19.911	ug/l	99
54) cis-1,3-Dichloropropene	9.09	75	360114	19.904	ug/l	98
55) 1,1,2-Trichloroethane	10.16	97	196683	20.236	ug/l	97
56) Ethyl methacrylate	10.01	69	227585	20.289	ug/l	97
57) 1,3-Dichloropropane	10.37	76	286237	20.348	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.90	63	609980	113.359	ug/l	99
59) 2-Hexanone	10.48	43	828381	93.314	ug/l	98
60) Dibromochloromethane	10.62	129	243595	19.940	ug/l	97
61) 1,2-Dibromoethane	10.74	107	196119	19.956	ug/l	99
64) Tetrachloroethene	10.24	164	220408	18.933	ug/l	97
65) Chlorobenzene	11.30	112	590653	19.742	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.41	131	223593	20.456	ug/l	98
67) Ethyl Benzene	11.42	91	1027036	20.404	ug/l	100
68) m/p-Xylenes	11.56	106	756960	41.305	ug/l	100
69) o-Xylene	11.92	106	353133	19.702	ug/l	94
70) Styrene	11.94	104	624415	20.119	ug/l	97
71) Bromoform	12.11	173	177514	18.769	ug/l #	99
73) Isopropylbenzene	12.27	105	977682	19.304	ug/l	98
74) N-amyl acetate	12.13	43	438119	19.757	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.55	83	236760	20.211	ug/l	99
76) 1,2,3-Trichloropropane	12.59	75	238811	19.366	ug/l	99
77) Bromobenzene	12.53	156	288922	20.576	ug/l	87
78) n-propylbenzene	12.63	91	1247491	19.452	ug/l	100
79) 2-Chlorotoluene	12.70	91	706688	19.485	ug/l	95
80) 1,3,5-Trimethylbenzene	12.79	105	820875	20.387	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.34	75	69469	18.111	ug/l	96
82) 4-Chlorotoluene	12.80	91	842226	20.360	ug/l	93
83) tert-Butylbenzene	13.03	119	928178	20.236	ug/l	92
84) 1,2,4-Trimethylbenzene	13.08	105	845264	20.140	ug/l	100
85) sec-Butylbenzene	13.21	105	1085434	20.123	ug/l	99
86) p-Isopropyltoluene	13.33	119	888179	20.246	ug/l	95
87) 1,3-Dichlorobenzene	13.30	146	501078	19.988	ug/l	97
88) 1,4-Dichlorobenzene	13.38	146	500548	20.013	ug/l	97
89) n-Butylbenzene	13.63	91	911900	19.104	ug/l	95
90) Hexachloroethane	13.85	117	208076	17.665	ug/l	86
91) 1,2-Dichlorobenzene	13.65	146	455292	21.359	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.22	75	34260	19.021	ug/l	64

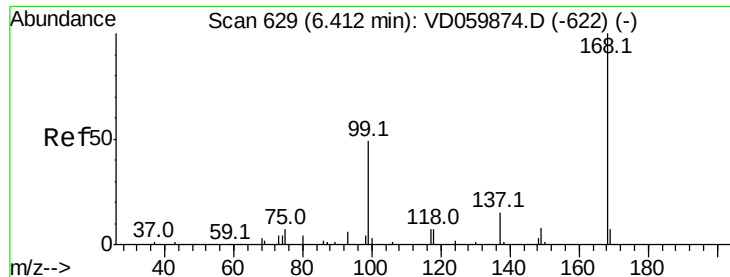
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	361508	19.808	ug/l	97
94) Hexachlorobutadiene	14.87	225	238960	19.974	ug/l	98
95) Naphthalene	14.96	128	558930	20.040	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	306210	19.617	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 626

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

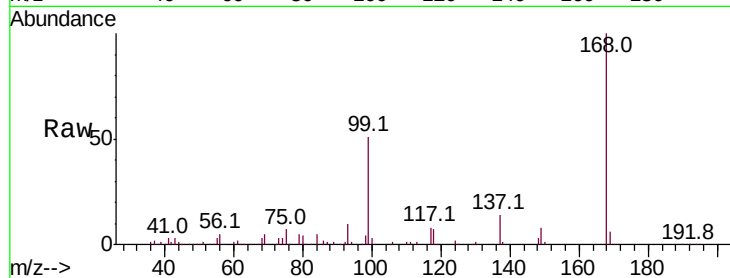
VD0831SBS01

Tot Ion:168 Resp: 1266937

Ion Ratio Lower Upper

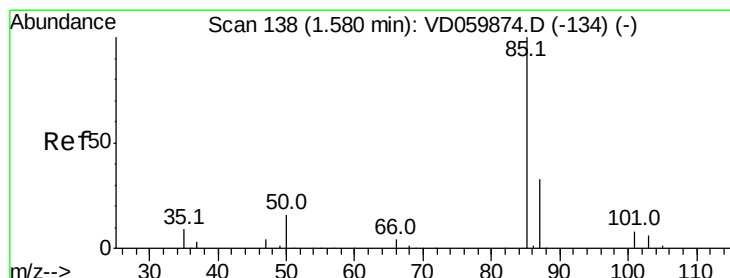
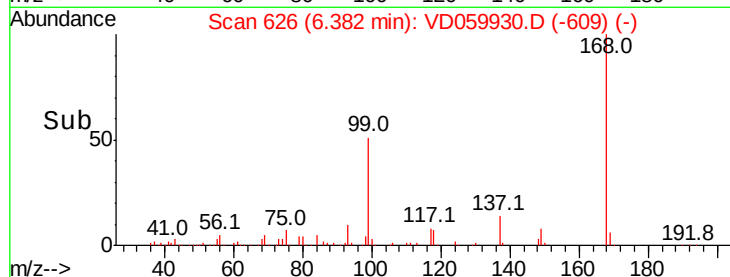
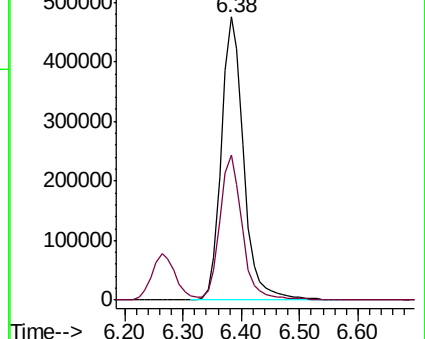
168 100

99 51.2 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 16.150 ug/l

RT: 1.57 min Scan# 137

Delta R.T. -0.01 min

Lab File: VD059930.D

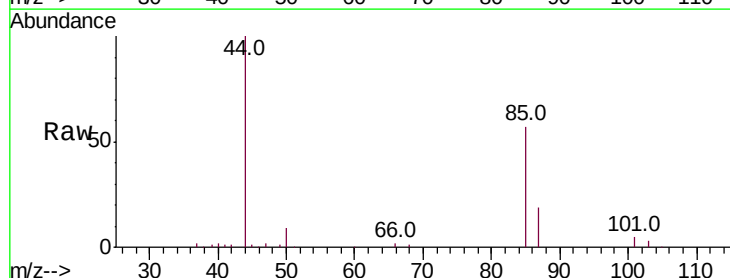
Acq: 31 Aug 2018 12:34

Tgt Ion: 85 Resp: 182901

Ion Ratio Lower Upper

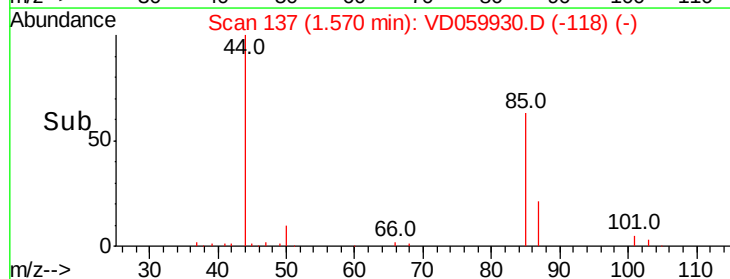
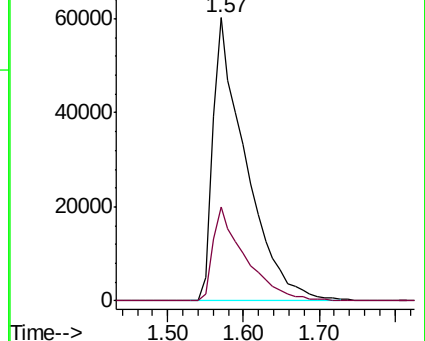
85 100

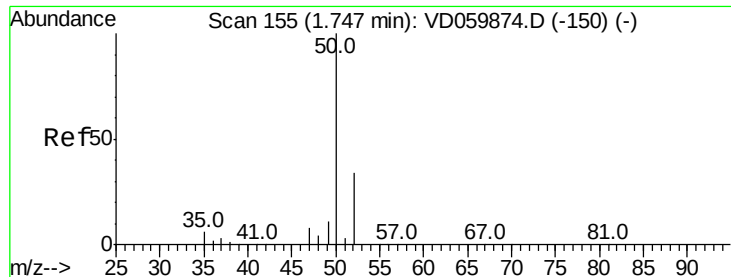
87 33.4 16.8 50.3



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 16.795 ug/l

RT: 1.74 min Scan# 154

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

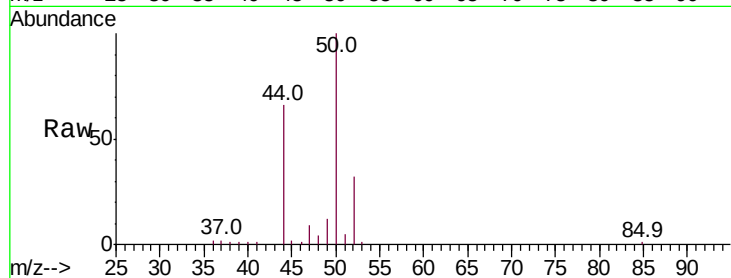
VD0831SBS01

Tot Ion: 50 Resp: 172308

Ion Ratio Lower Upper

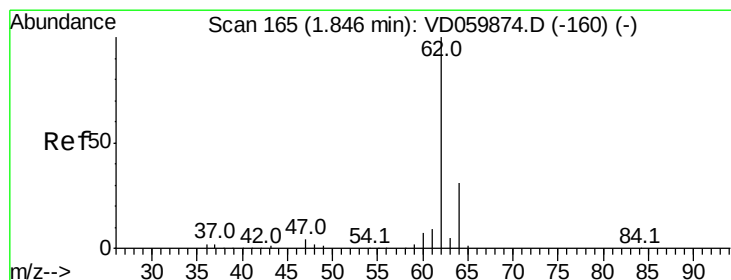
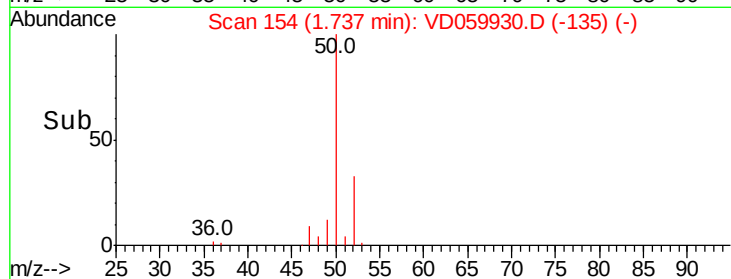
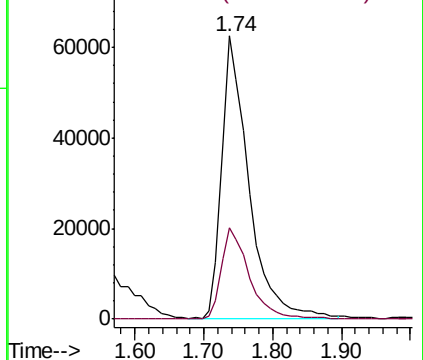
50 100

52 32.4 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 17.656 ug/l

RT: 1.84 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD059930.D

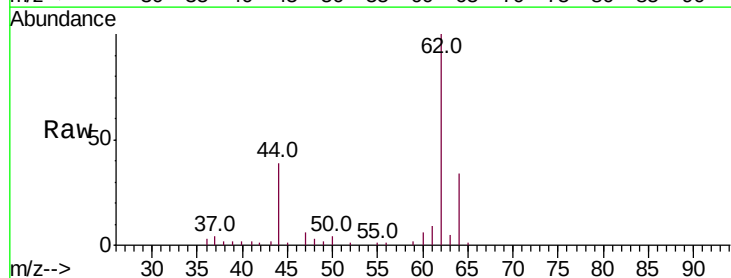
Acq: 31 Aug 2018 12:34

Tgt Ion: 62 Resp: 142037

Ion Ratio Lower Upper

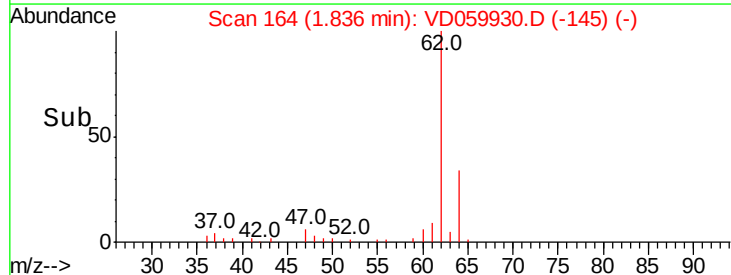
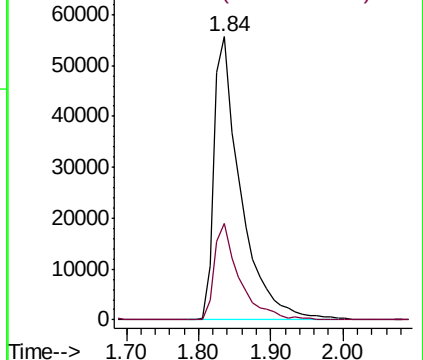
62 100

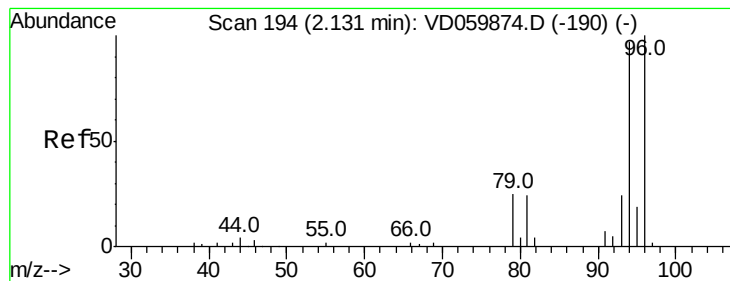
64 34.2 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 10.400 ug/l

RT: 2.11 min Scan# 192

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

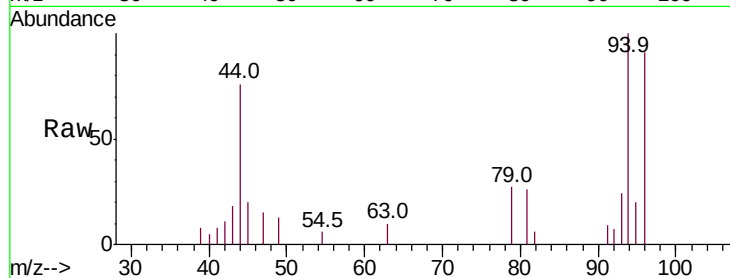
VD0831SBS01

Tot Ion: 94 Resp: 14444

Ion Ratio Lower Upper

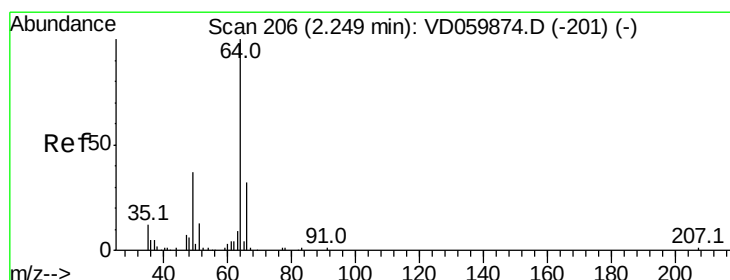
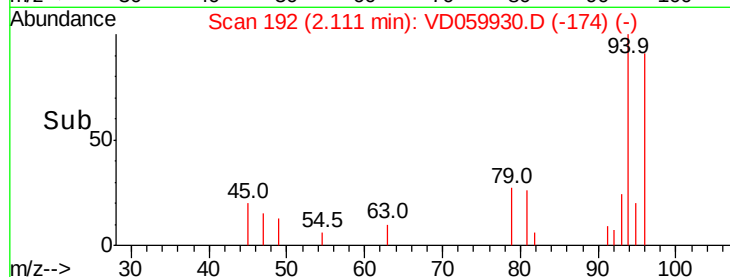
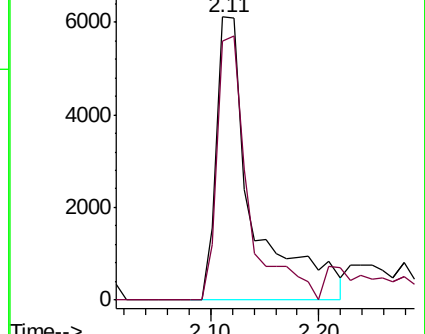
94 100

96 91.4 82.4 123.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 11.521 ug/l

RT: 2.22 min Scan# 203

Delta R.T. -0.03 min

Lab File: VD059930.D

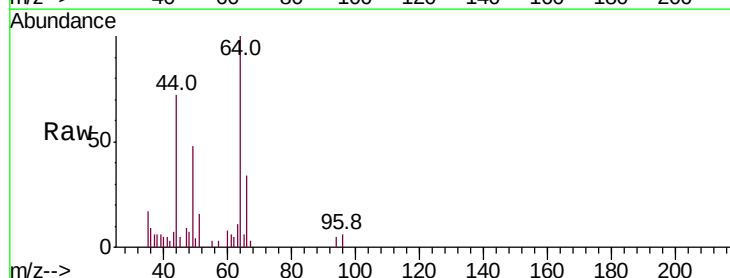
Acq: 31 Aug 2018 12:34

Tgt Ion: 64 Resp: 33519

Ion Ratio Lower Upper

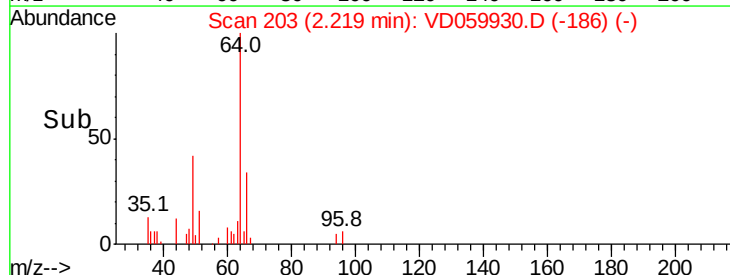
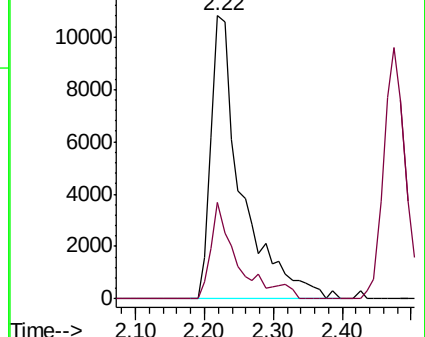
64 100

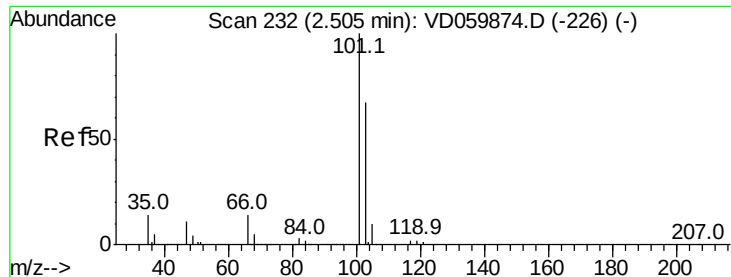
66 33.9 25.3 37.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



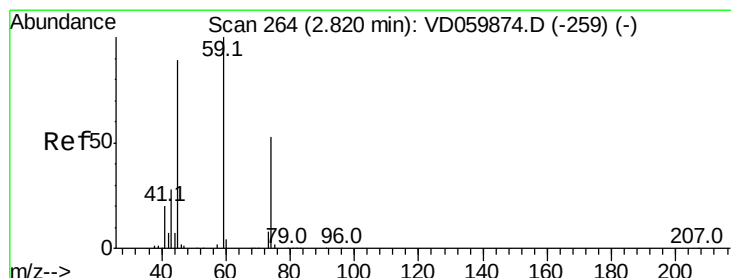
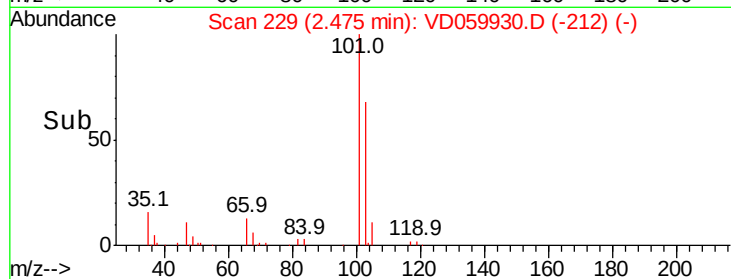
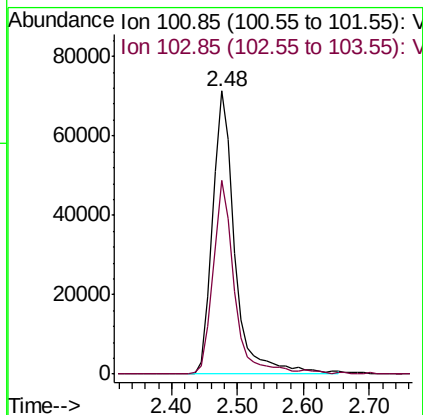
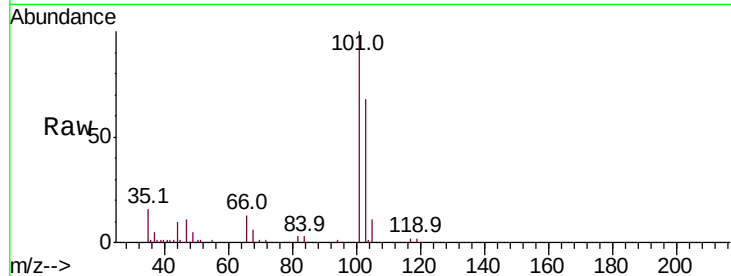


#7

Trichlorofluoromethane
Concen: 17.838 ug/l
RT: 2.48 min Scan# 229
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

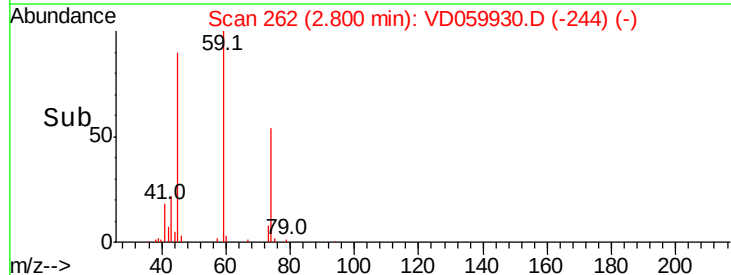
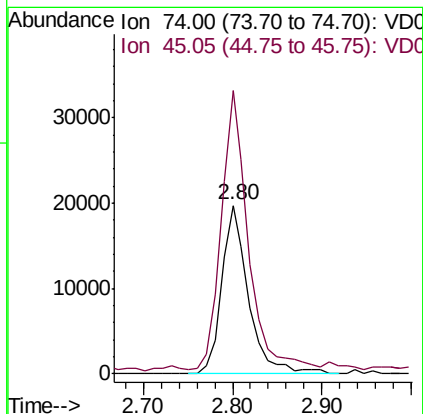
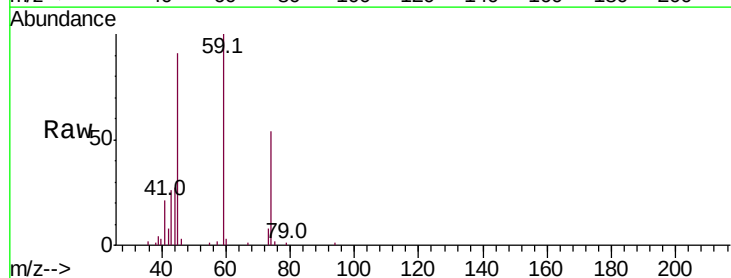
Tot Ion:101 Resp: 166012
Ion Ratio Lower Upper
101 100
103 68.2 53.7 80.5

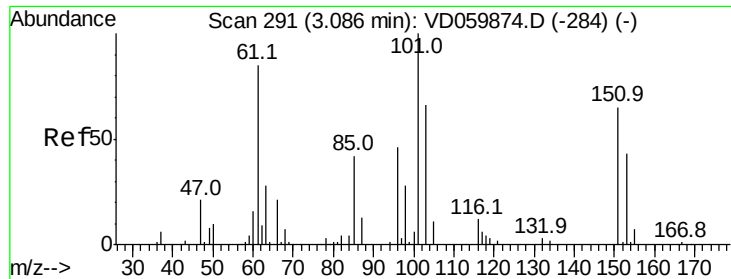


#8

Diethyl Ether
Concen: 19.907 ug/l
RT: 2.80 min Scan# 262
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 74 Resp: 41563
Ion Ratio Lower Upper
74 100
45 168.3 85.7 257.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.229 ug/l

RT: 3.06 min Scan# 288

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

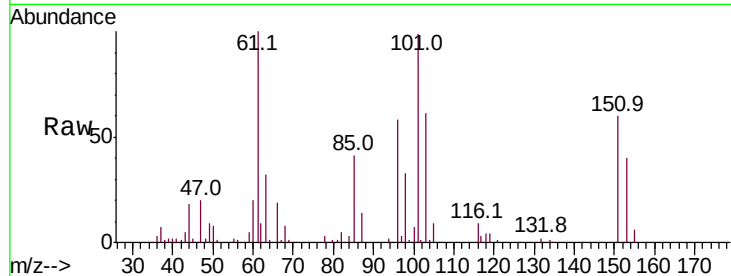
Tot Ion:101 Resp: 120994

Ion Ratio Lower Upper

101 100

85 41.5 33.6 50.4

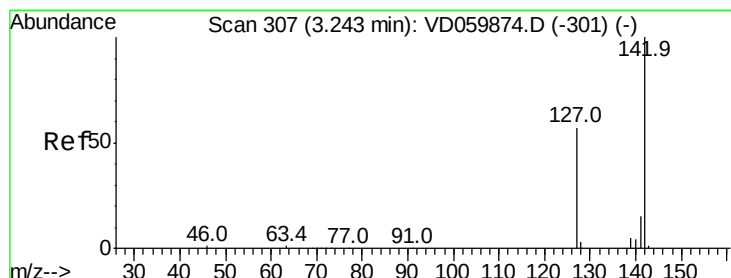
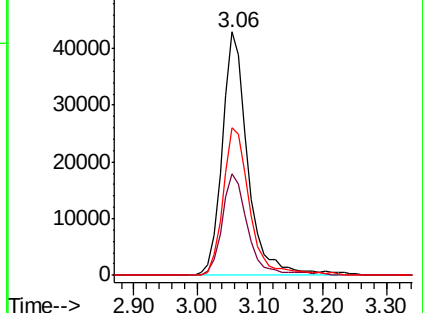
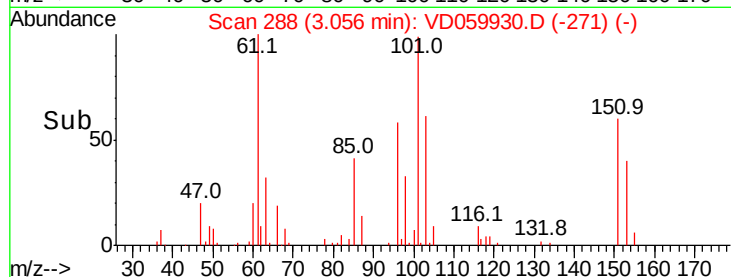
151 60.8 52.0 78.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.755 ug/l

RT: 3.21 min Scan# 304

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

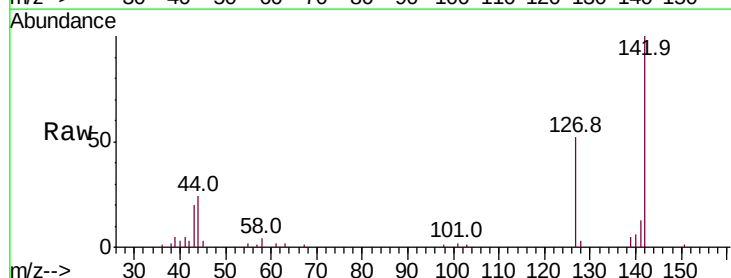
Tgt Ion:142 Resp: 93220

Ion Ratio Lower Upper

142 100

127 51.8 45.8 68.6

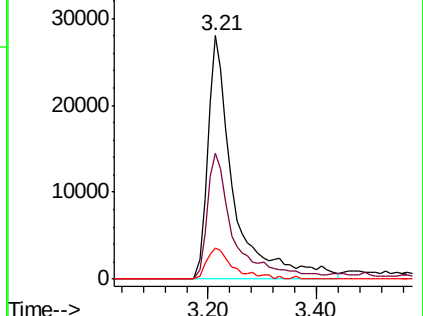
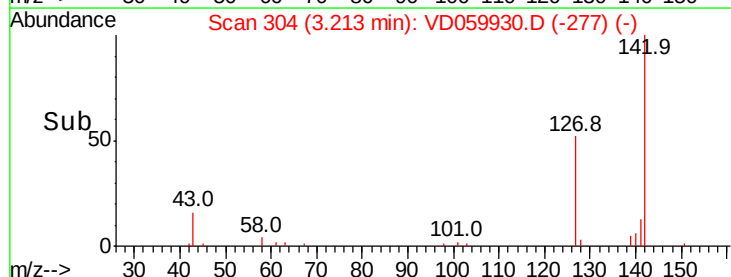
141 12.8 11.6 17.4

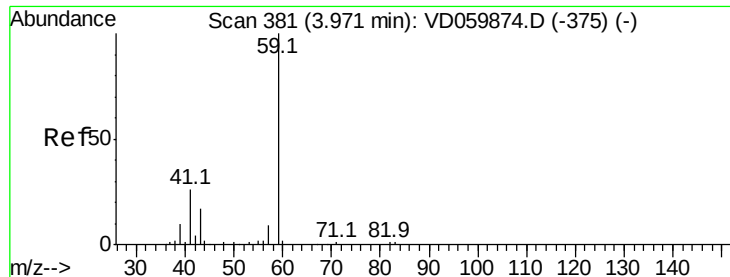


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



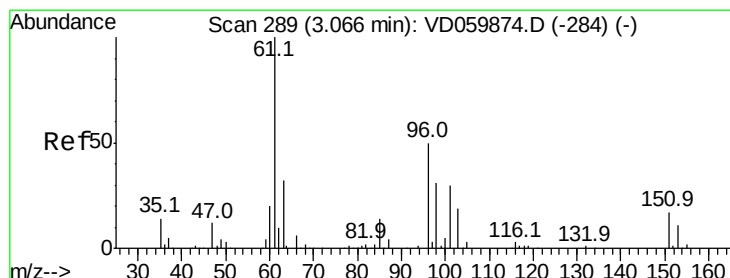
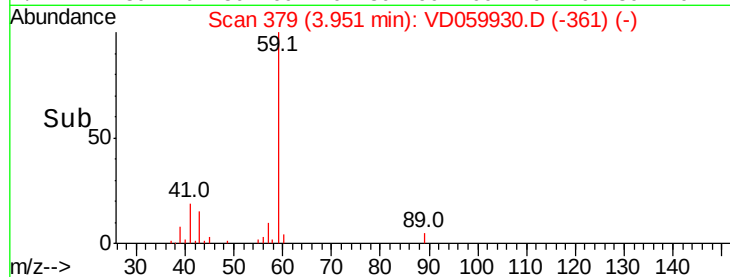
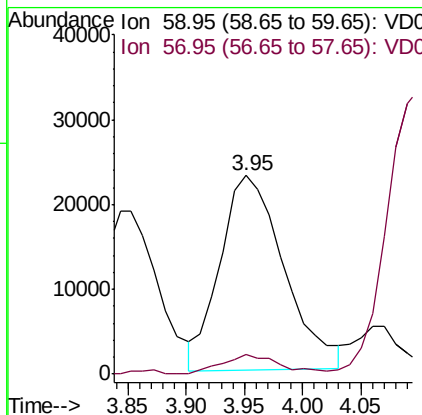
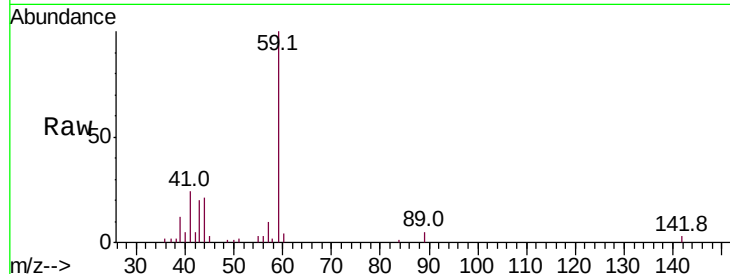


#11

Tert butyl alcohol
Concen: 107.477 ug/l
RT: 3.95 min Scan# 379
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

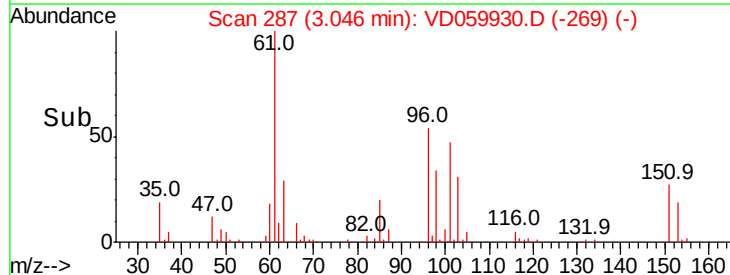
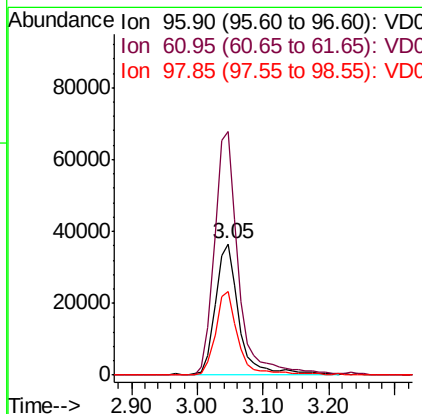
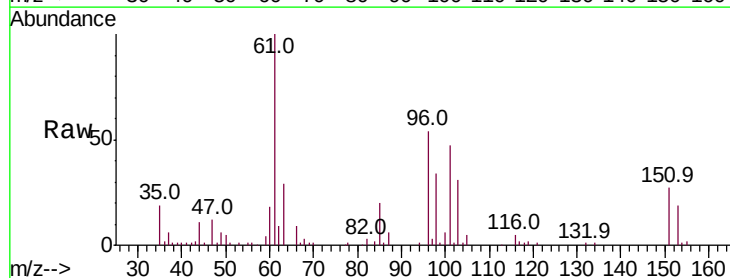
Tot Ion: 59 Resp: 87570
Ion Ratio Lower Upper
59 100
57 9.8 7.4 11.0

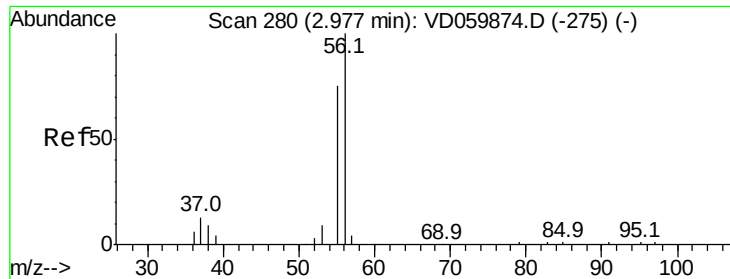


#12

1,1-Dichloroethene
Concen: 20.565 ug/l
RT: 3.05 min Scan# 287
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 96 Resp: 91247
Ion Ratio Lower Upper
96 100
61 185.8 158.8 238.2
98 63.8 48.7 73.1





#13

Acrolein

Concen: 69.753 ug/l

RT: 2.96 min Scan# 278

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

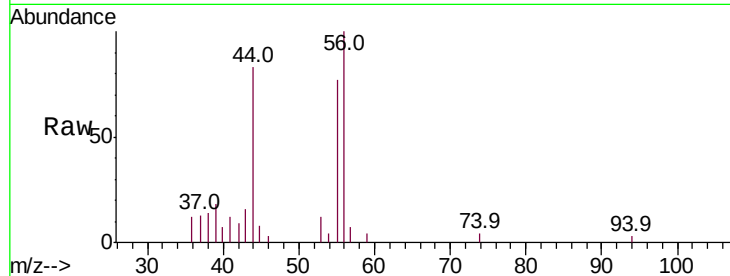
VD0831SBS01

Tot Ion: 56 Resp: 24650

Ion Ratio Lower Upper

56 100

55 76.6 61.9 92.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.96

10000

8000

6000

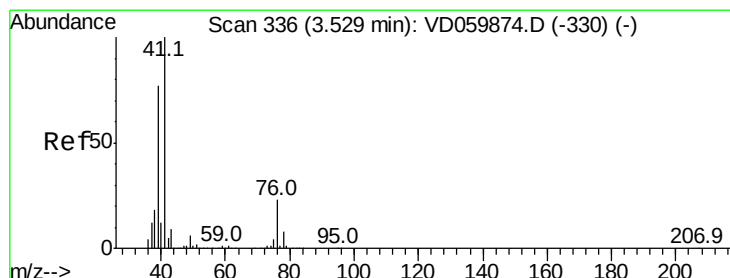
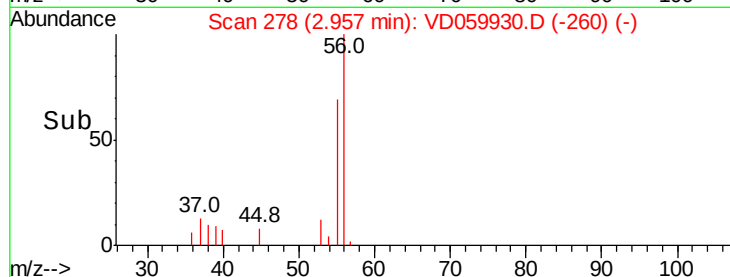
4000

2000

0

Time-->

2.90 3.00 3.10



#14

Allyl chloride

Concen: 18.981 ug/l

RT: 3.51 min Scan# 334

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

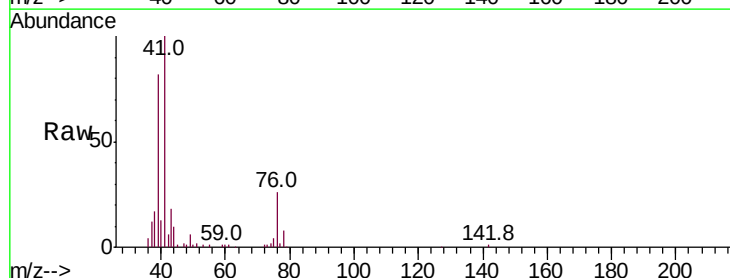
Tgt Ion: 41 Resp: 190522

Ion Ratio Lower Upper

41 100

39 82.3 61.8 92.6

76 26.1 19.4 29.2



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

100000

80000

60000

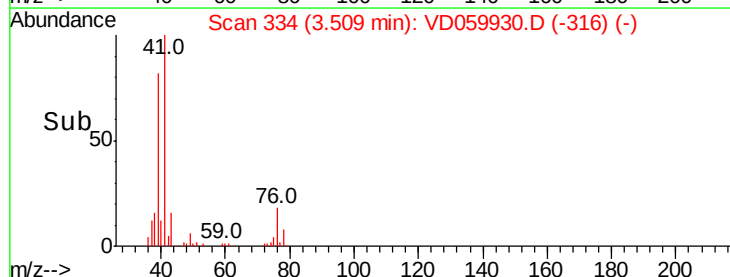
40000

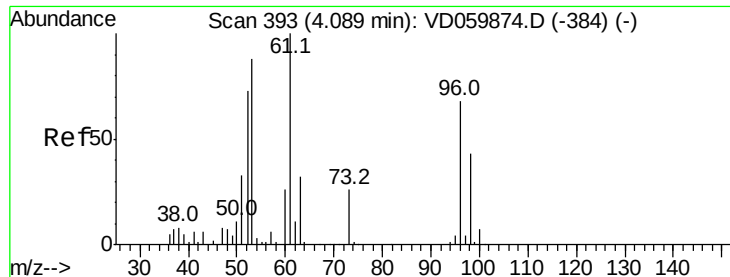
20000

0

Time-->

3.40 3.50 3.60





#15

Acrylonitrile

Concen: 102.261 ug/l

RT: 4.06 min Scan# 390

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

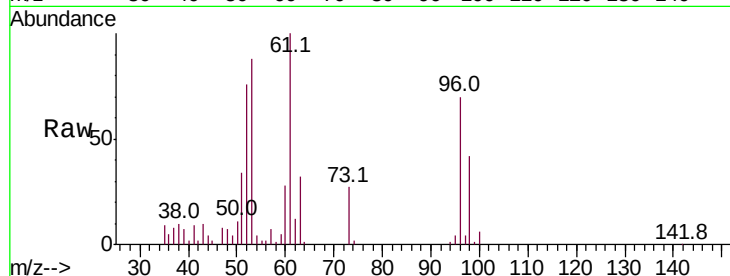
Tot Ion: 53 Resp: 312016

Ion Ratio Lower Upper

53 100

52 86.4 66.9 100.3

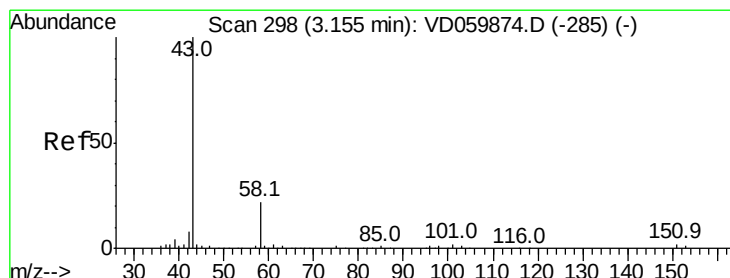
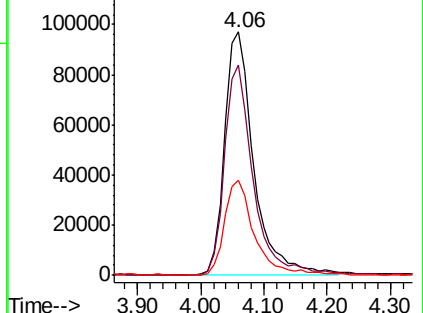
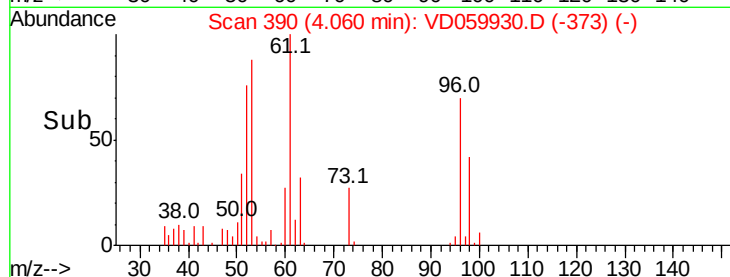
51 39.1 30.3 45.5



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 104.321 ug/l

RT: 3.13 min Scan# 296

Delta R.T. -0.02 min

Lab File: VD059930.D

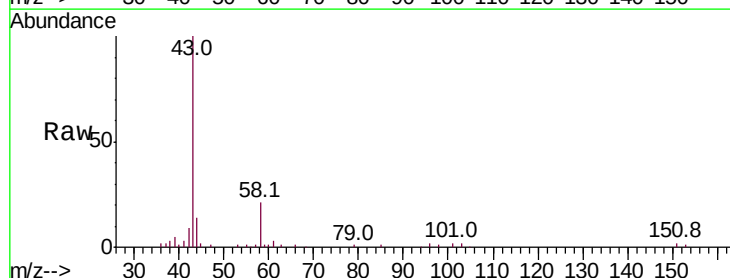
Acq: 31 Aug 2018 12:34

Tgt Ion: 43 Resp: 202953

Ion Ratio Lower Upper

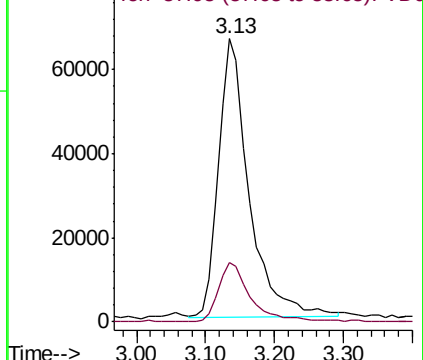
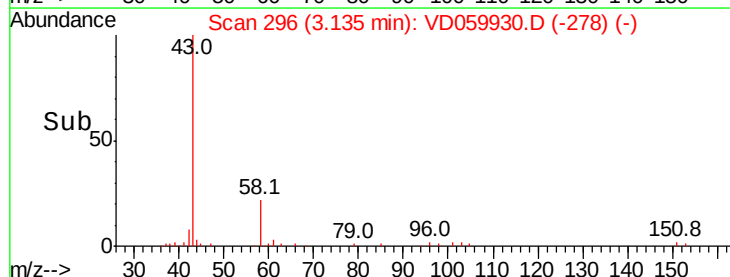
43 100

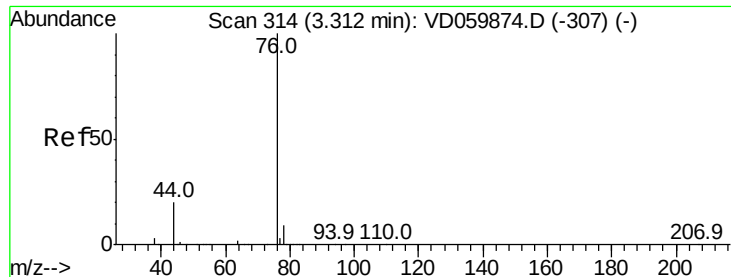
58 21.1 17.6 26.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

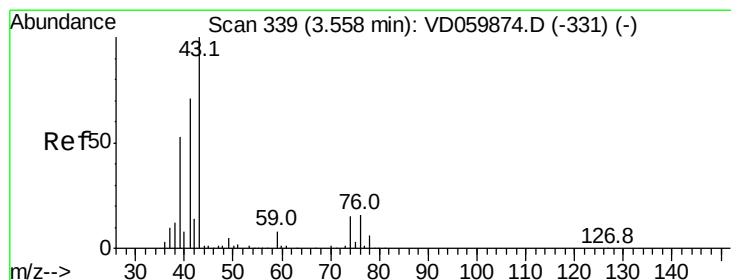
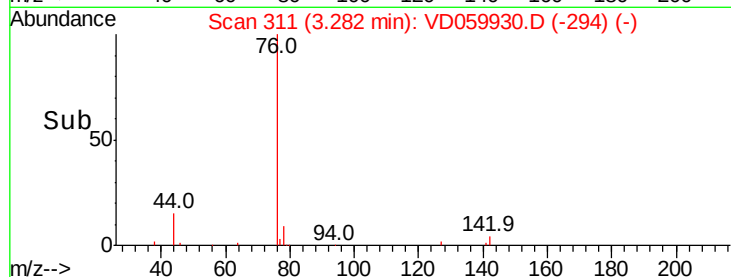
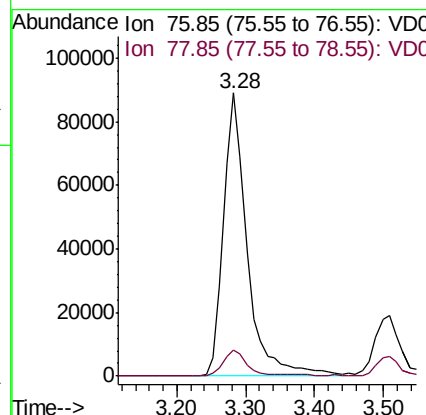
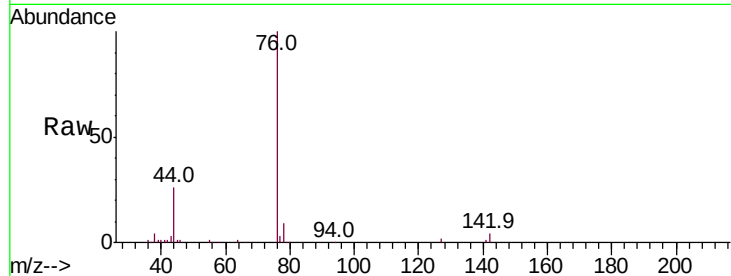




#17
Carbon Disulfide
Concen: 15.438 ug/l
RT: 3.28 min Scan# 311
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

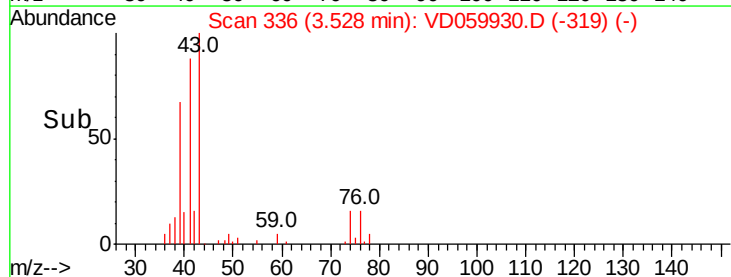
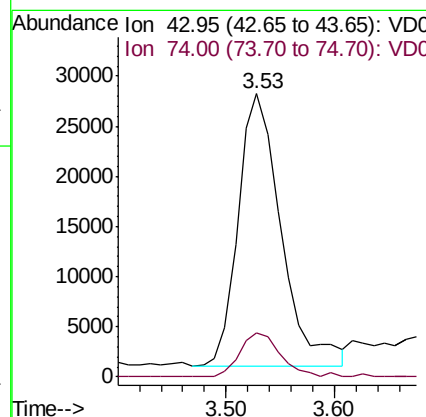
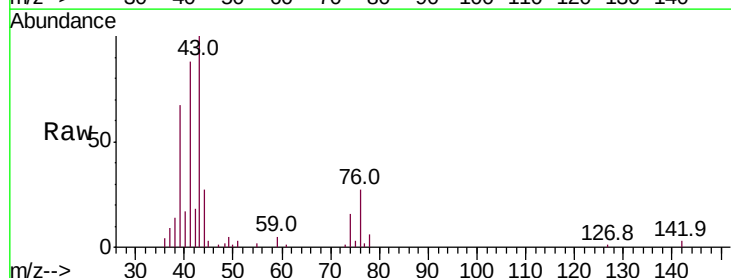
Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

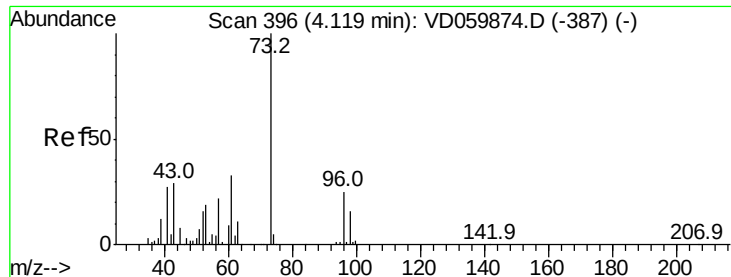
Tot Ion: 76 Resp: 212620
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.2



#18
Methyl Acetate
Concen: 18.443 ug/l
RT: 3.53 min Scan# 336
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 43 Resp: 74902
Ion Ratio Lower Upper
43 100
74 15.6 11.2 16.8



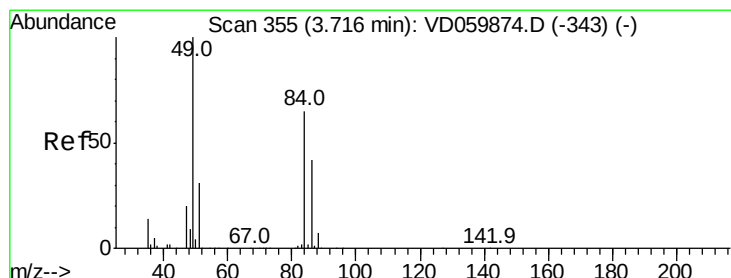
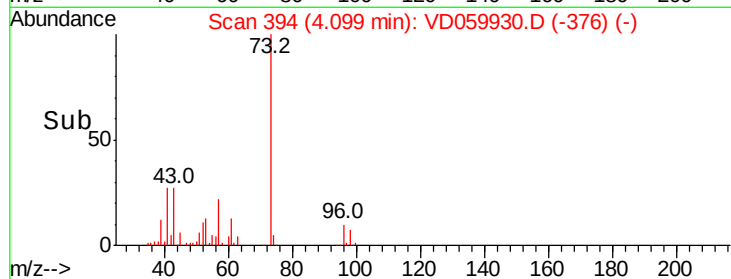
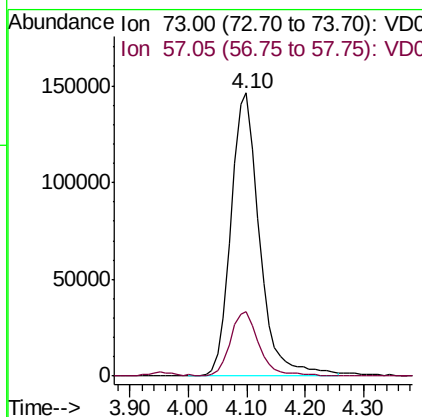
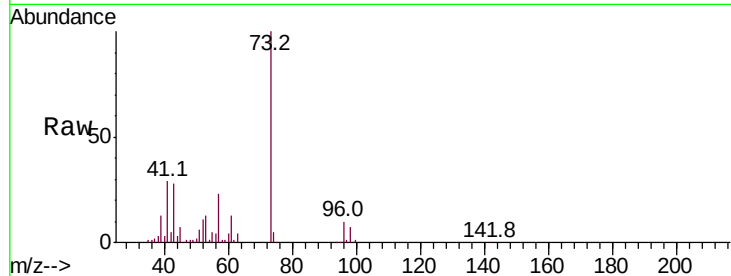


#19

Methyl tert-butyl Ether
 Concen: 19.960 ug/l
 RT: 4.10 min Scan# 394
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

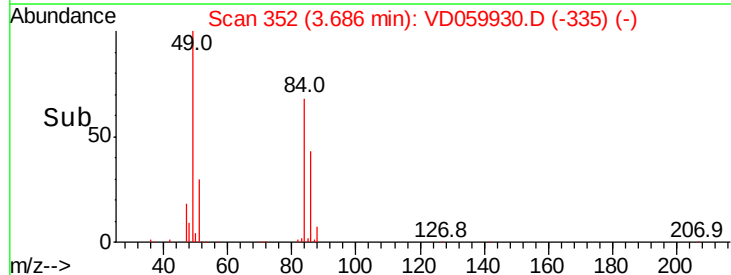
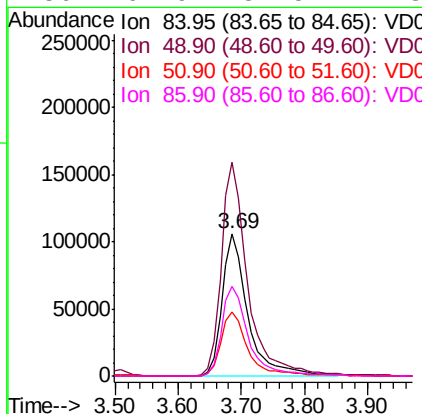
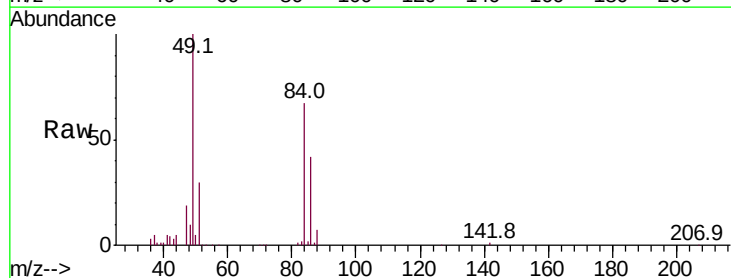
Tot Ion: 73 Resp: 501002
 Ion Ratio Lower Upper
 73 100
 57 22.8 17.9 26.9

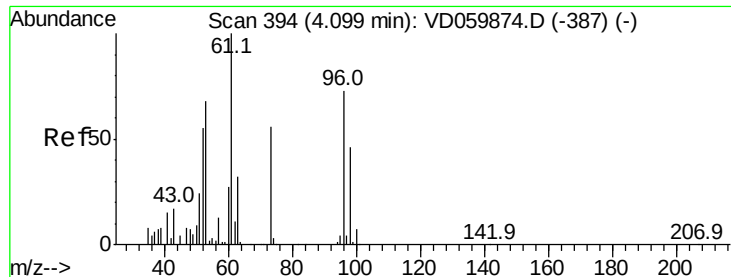


#20

Methylene Chloride
 Concen: 21.002 ug/l
 RT: 3.69 min Scan# 352
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion: 84 Resp: 300734
 Ion Ratio Lower Upper
 84 100
 49 150.1 122.6 183.8
 51 45.1 38.4 57.6
 86 62.9 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 18.354 ug/l

RT: 4.07 min Scan# 391

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

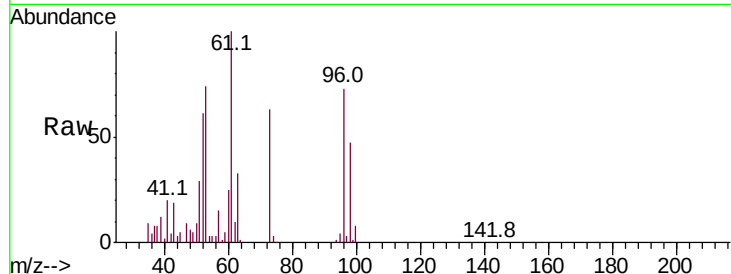
Tot Ion: 96 Resp: 224379

Ion Ratio Lower Upper

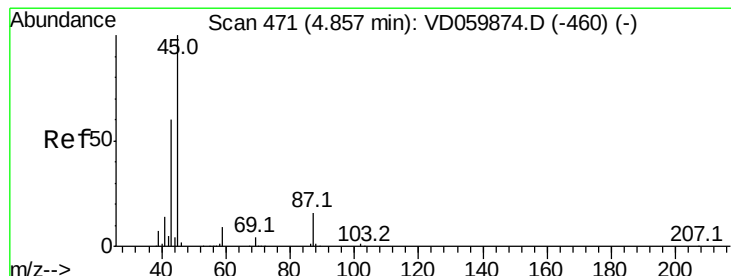
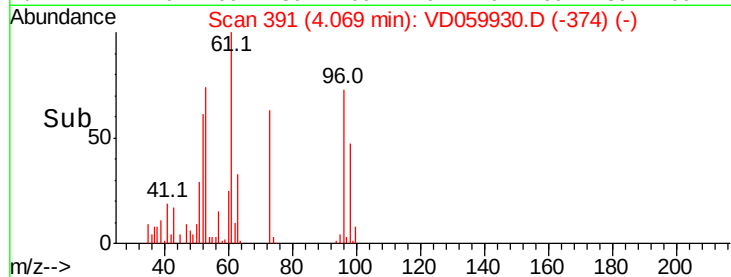
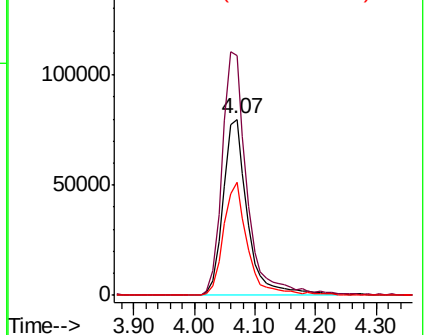
96 100

61 136.4 110.2 165.4

98 64.0 50.9 76.3



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



#22

Diisopropyl ether

Concen: 20.251 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Tgt Ion: 45 Resp: 1036706

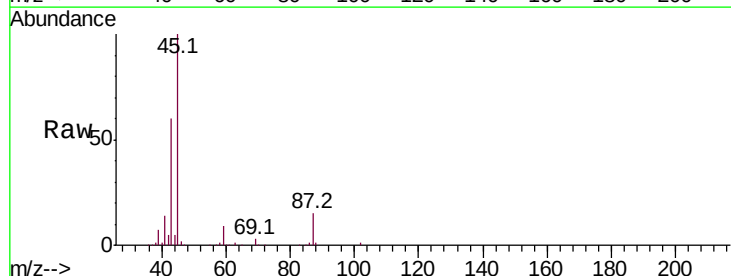
Ion Ratio Lower Upper

45 100

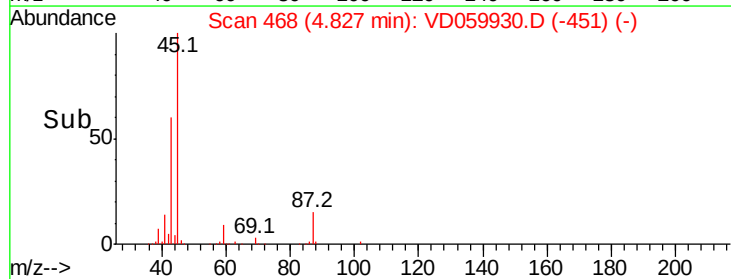
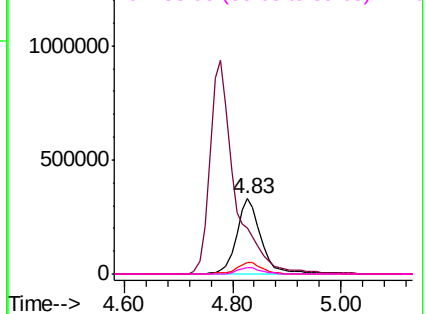
43 60.4 48.6 72.8

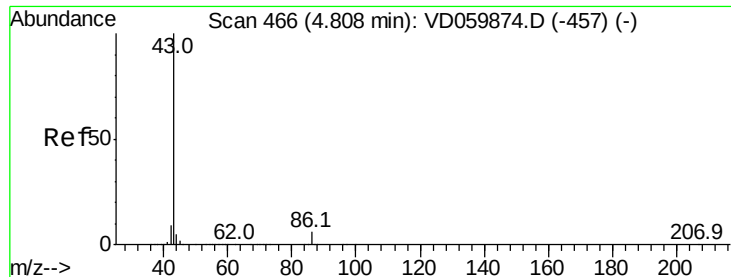
87 15.1 13.3 19.9

59 8.6 7.1 10.7



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 104.200 ug/l

RT: 4.78 min Scan# 463

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

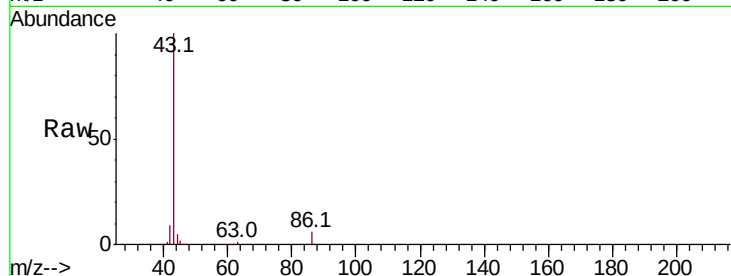
VD0831SBS01

Tot Ion: 43 Resp: 2981914

Ion Ratio Lower Upper

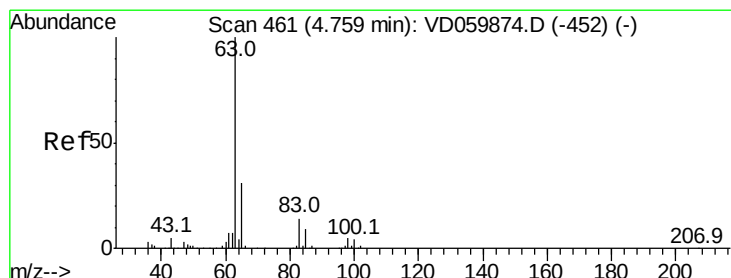
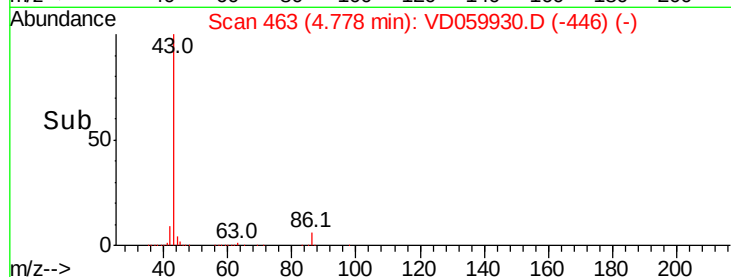
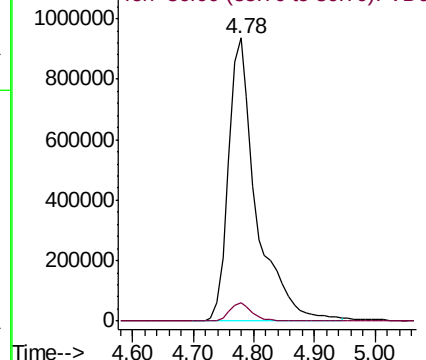
43 100

86 6.5 5.0 7.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 19.377 ug/l

RT: 4.73 min Scan# 458

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

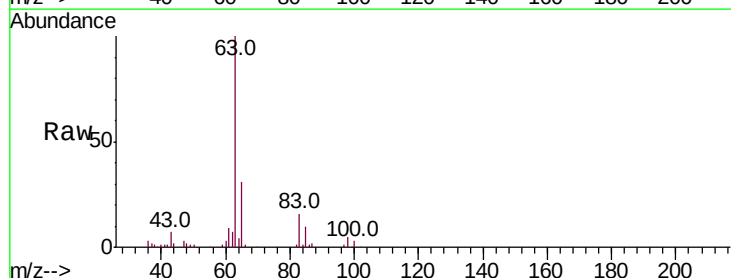
Tgt Ion: 63 Resp: 428548

Ion Ratio Lower Upper

63 100

98 5.3 2.7 8.1

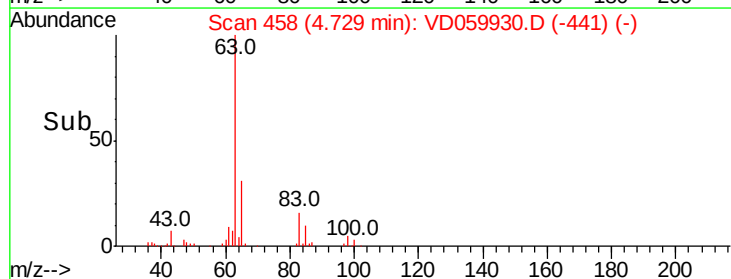
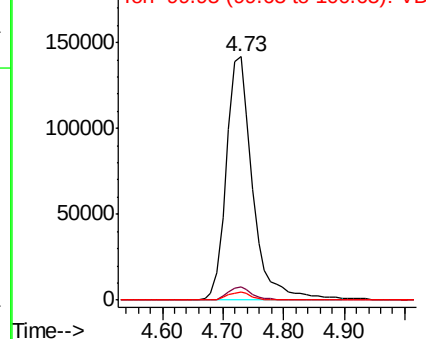
100 3.3 1.8 5.3

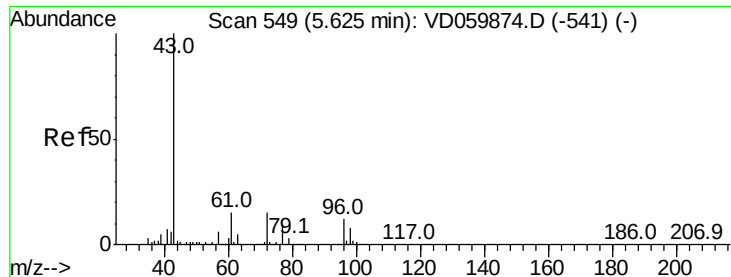


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 92.009 ug/l

RT: 5.59 min Scan# 546

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

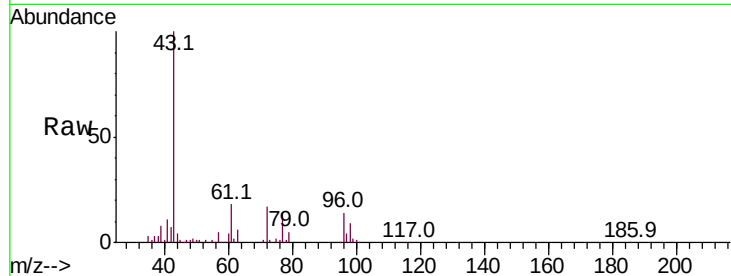
VD0831SBS01

Tot Ion: 43 Resp: 530147

Ion Ratio Lower Upper

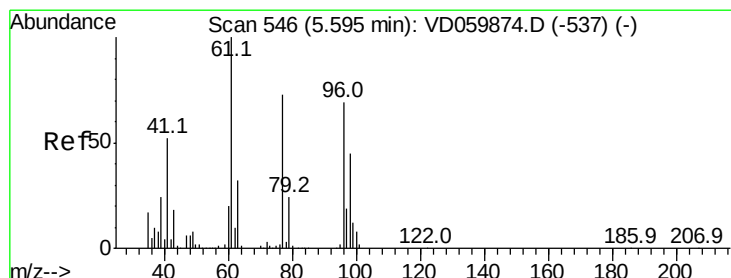
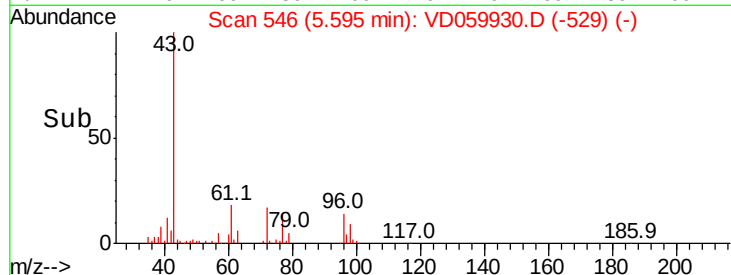
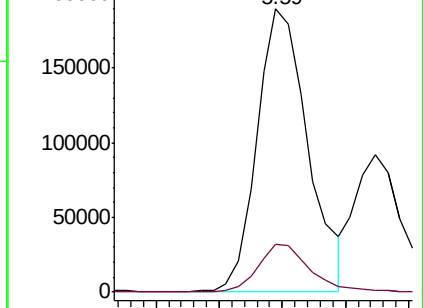
43 100

72 16.7 12.3 18.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.220 ug/l

RT: 5.56 min Scan# 542

Delta R.T. -0.04 min

Lab File: VD059930.D

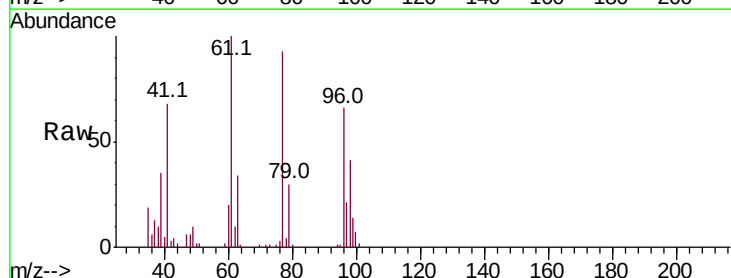
Acq: 31 Aug 2018 12:34

Tgt Ion: 77 Resp: 373820

Ion Ratio Lower Upper

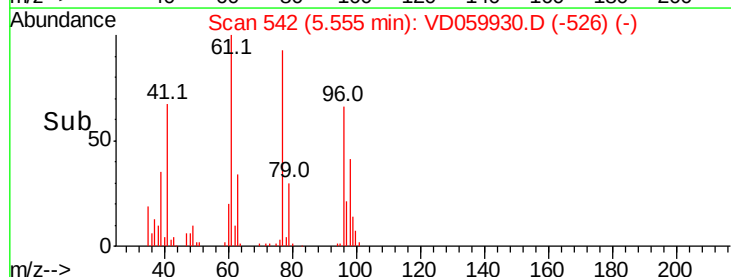
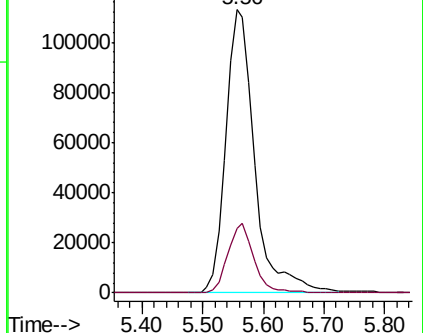
77 100

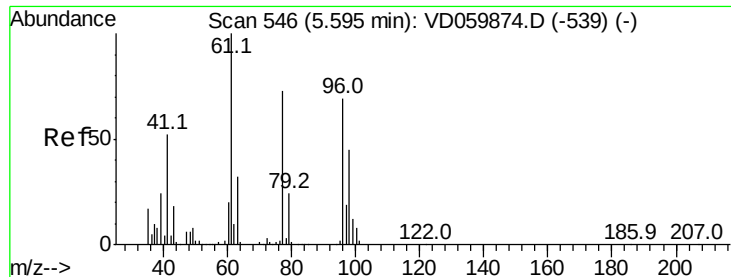
97 23.0 13.0 38.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



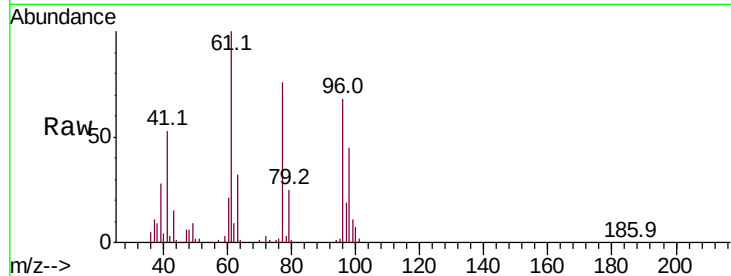


#27

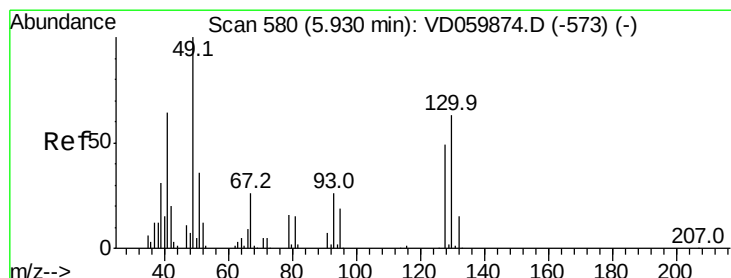
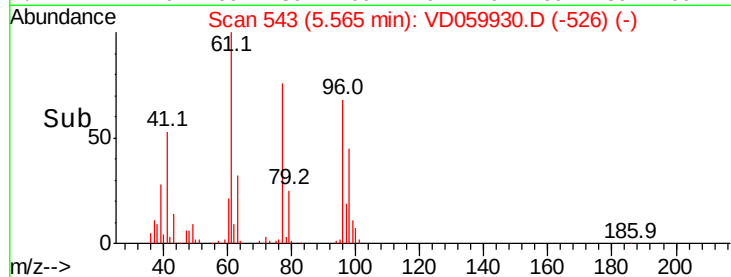
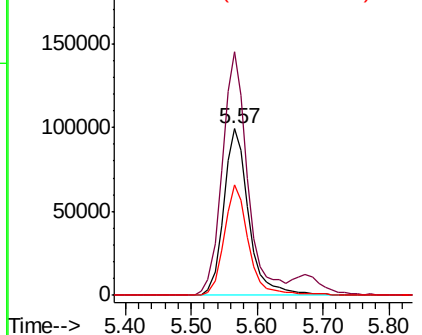
cis-1,2-Dichloroethene
Concen: 19.756 ug/l
RT: 5.57 min Scan# 543
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	290.2
98	66.6	0.0	130.4



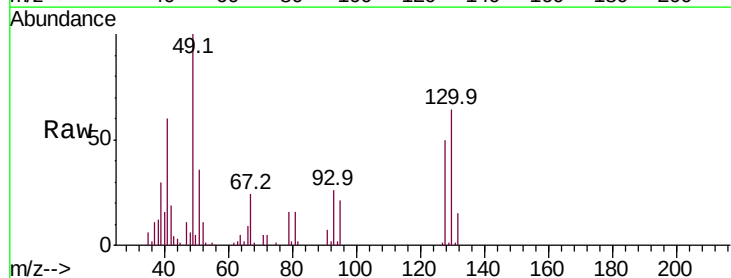
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



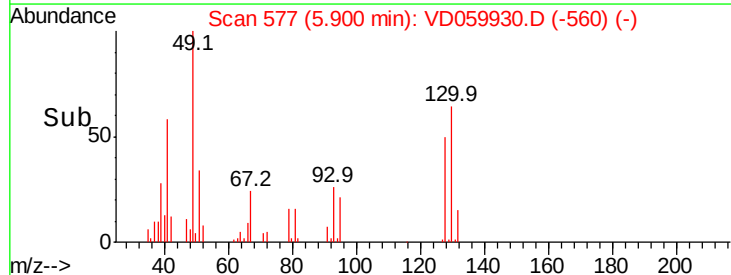
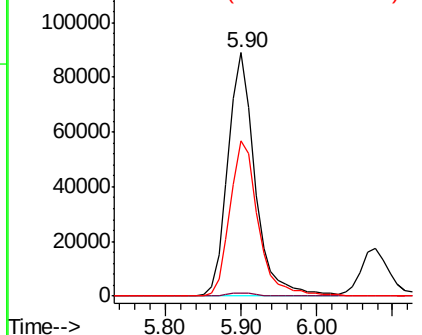
#28

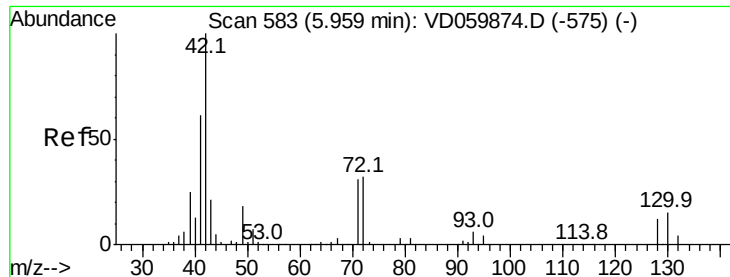
Bromochloromethane
Concen: 20.929 ug/l
RT: 5.90 min Scan# 577
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.2
130	63.8	50.6	75.8



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





#29

Tetrahydrofuran

Concen: 103.847 ug/l

RT: 5.93 min Scan# 580

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

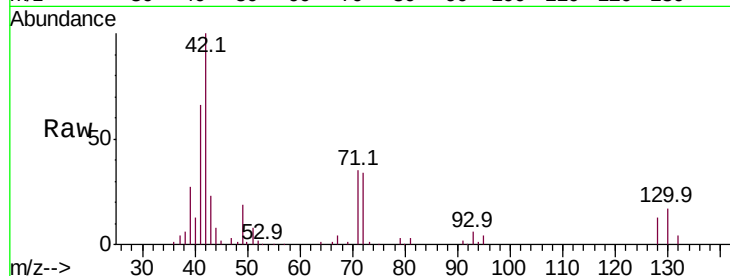
Tot Ion: 42 Resp: 284863

Ion Ratio Lower Upper

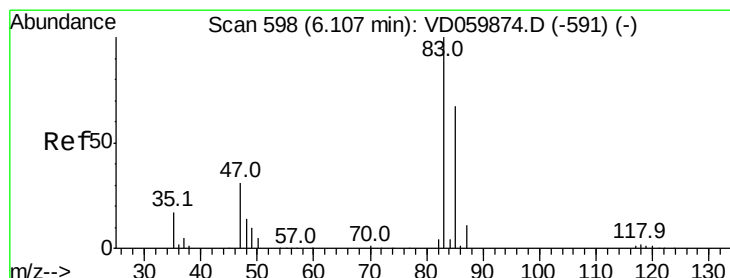
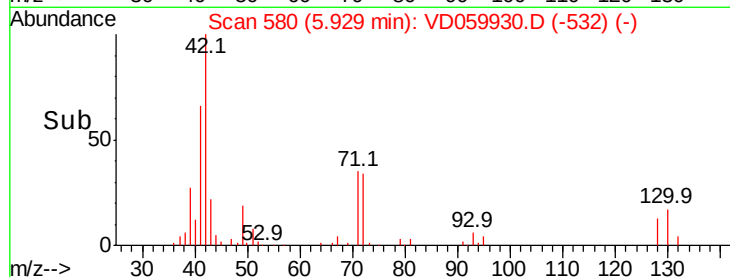
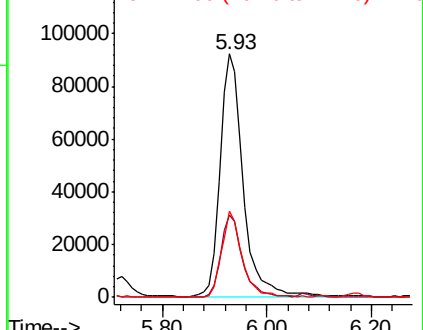
42 100

72 31.1 25.7 38.5

71 31.3 25.3 37.9



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: 20.397 ug/l

RT: 6.08 min Scan# 595

Delta R.T. -0.03 min

Lab File: VD059930.D

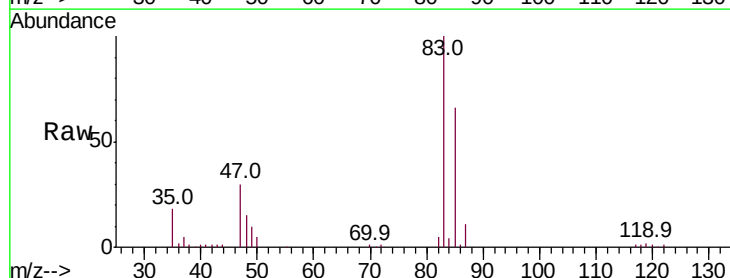
Acq: 31 Aug 2018 12:34

Tgt Ion: 83 Resp: 458431

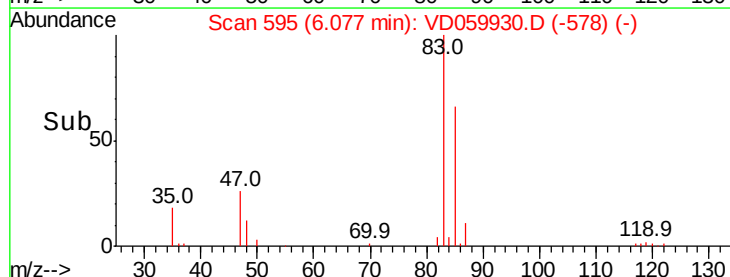
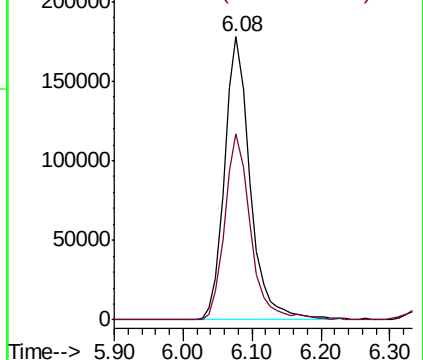
Ion Ratio Lower Upper

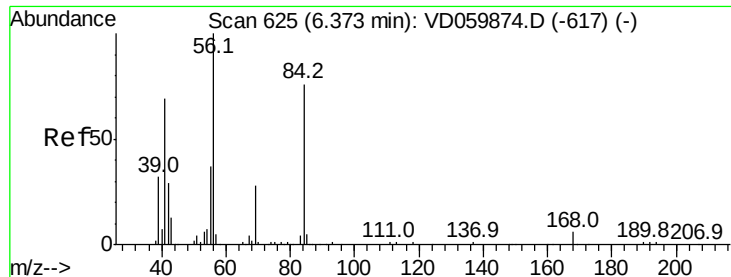
83 100

85 65.8 53.5 80.3



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

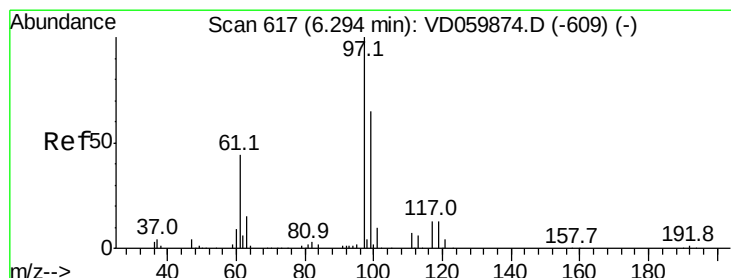
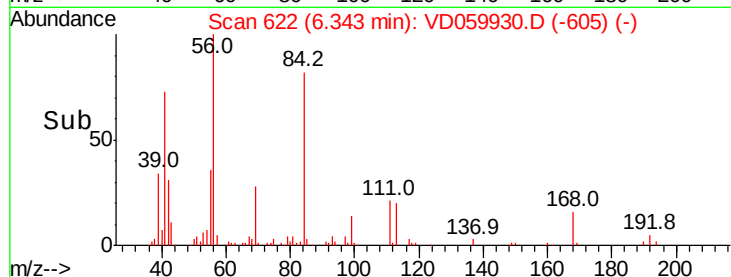
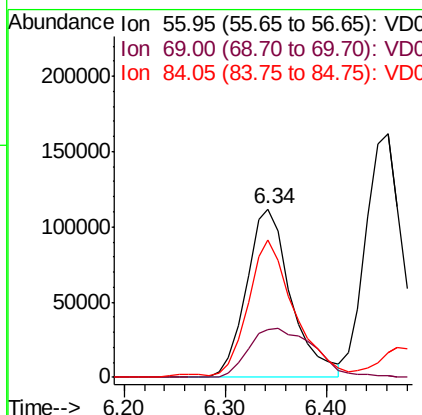
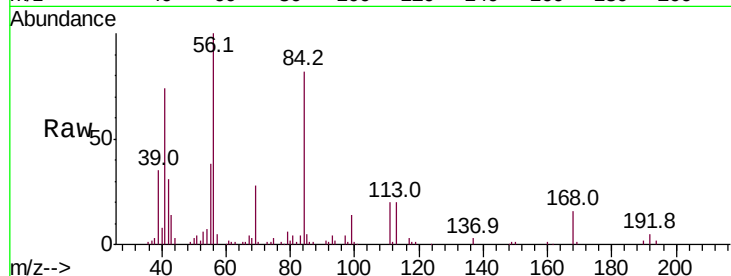




#31
Cyclohexane
Concen: 16.894 ug/l
RT: 6.34 min Scan# 622
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

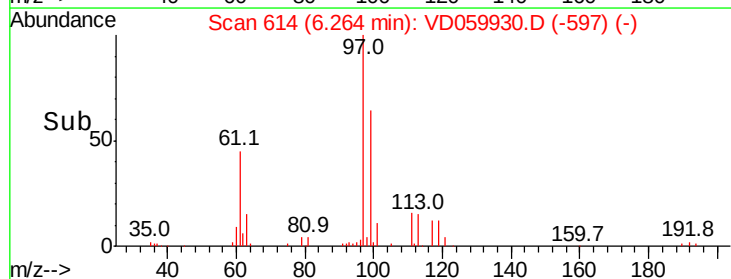
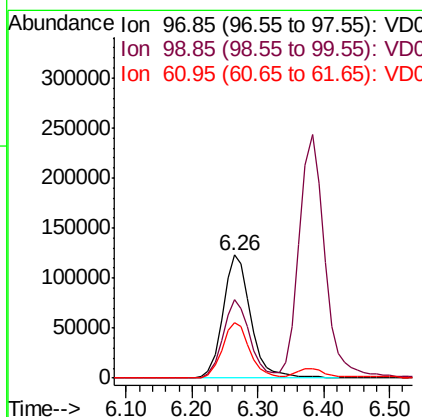
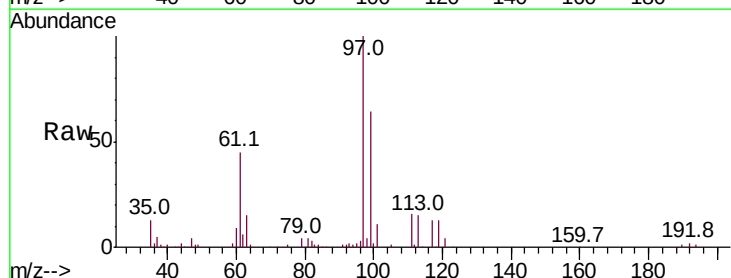
Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

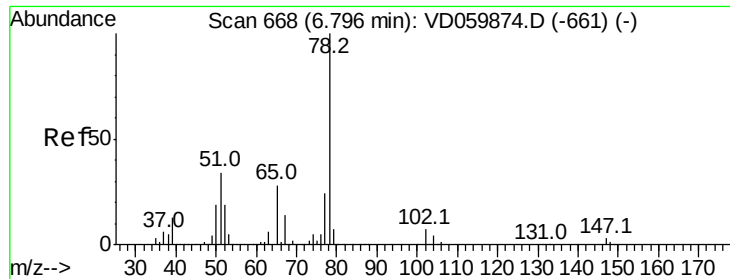
Tot Ion: 56 Resp: 343493
Ion Ratio Lower Upper
56 100
69 28.1 22.4 33.6
84 81.8 62.1 93.1



#32
1,1,1-Trichloroethane
Concen: 18.981 ug/l
RT: 6.26 min Scan# 614
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 97 Resp: 362065
Ion Ratio Lower Upper
97 100
99 64.1 51.7 77.5
61 44.8 35.4 53.2

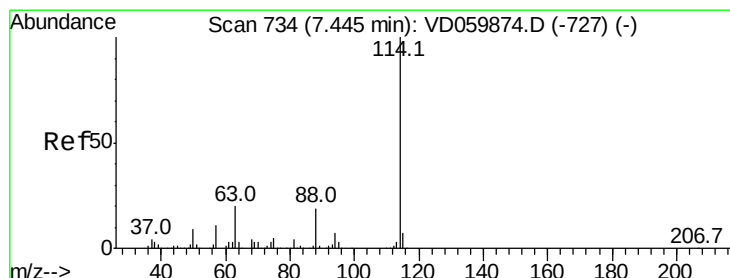
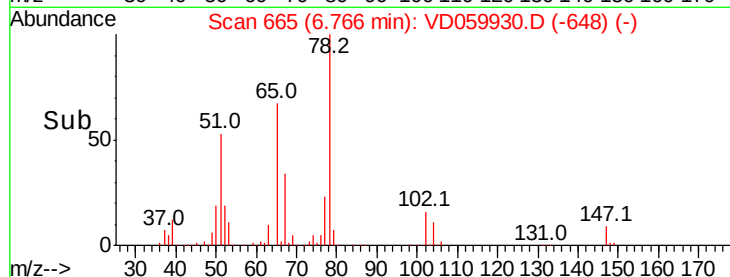
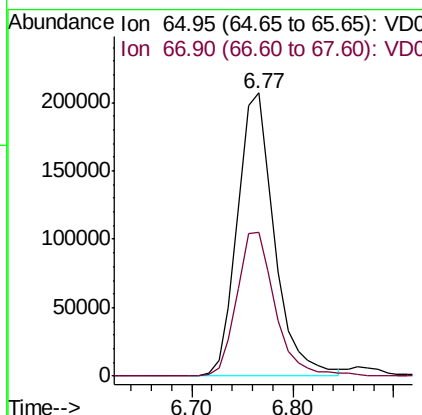
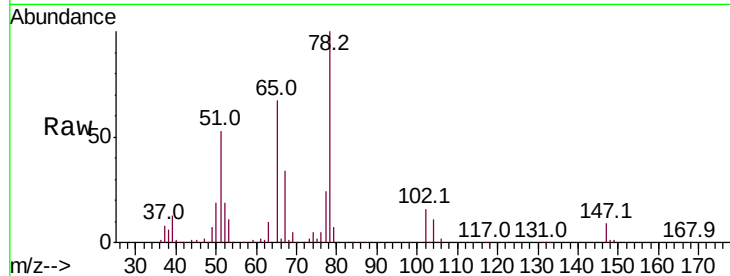




#33
 1,2-Dichloroethane-d4
 Concen: 18.981 ug/l
 RT: 6.77 min Scan# 665
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

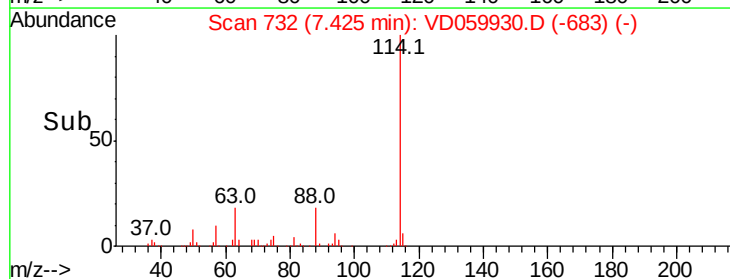
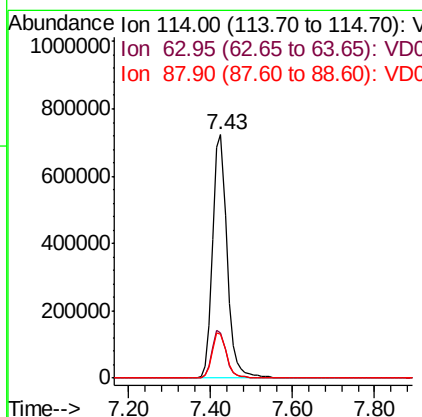
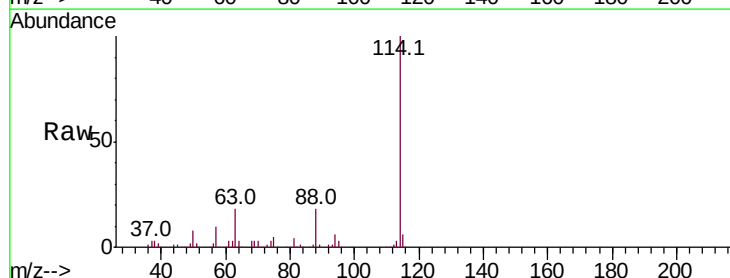
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

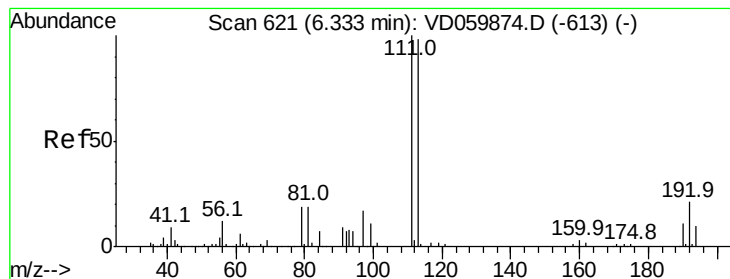
Tot Ion: 65 Resp: 528115
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 732
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion:114 Resp: 1759176
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 39.4
 88 17.8 0.0 37.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.29 min Scan# 617

Delta R.T. -0.04 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

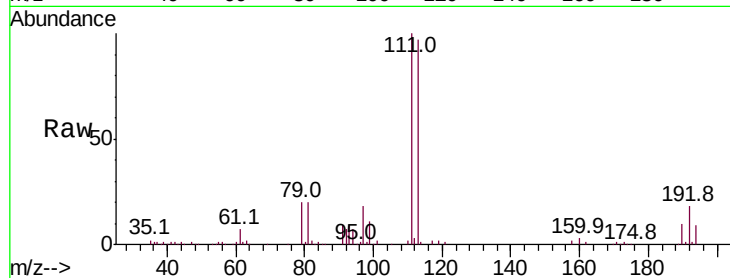
Tot Ion:113 Resp: 678748

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.2

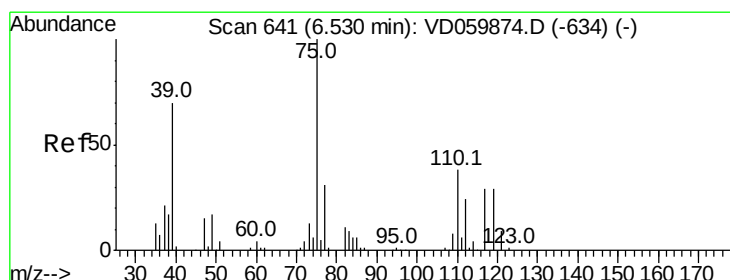
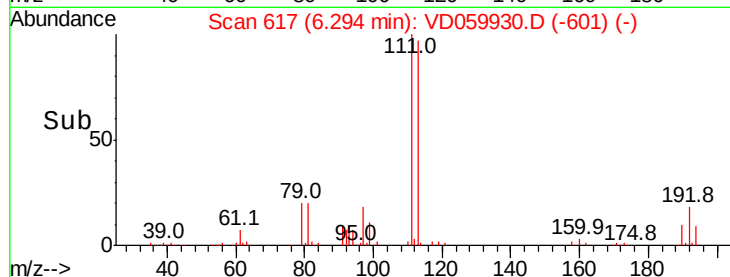
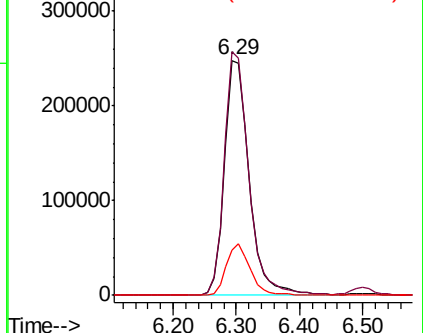
192 19.0 17.0 25.6



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: 18.968 ug/l

RT: 6.50 min Scan# 638

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

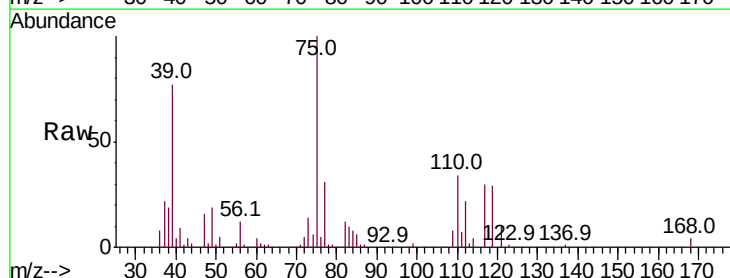
Tgt Ion: 75 Resp: 302479

Ion Ratio Lower Upper

75 100

110 34.4 18.6 56.0

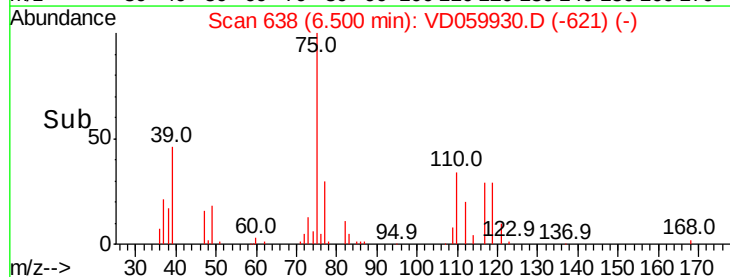
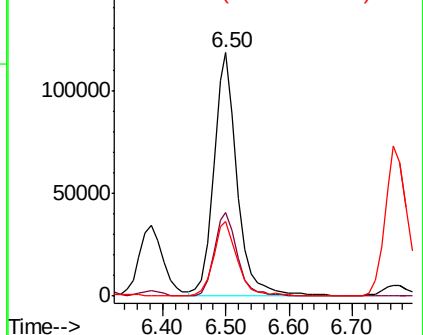
77 30.7 25.1 37.7

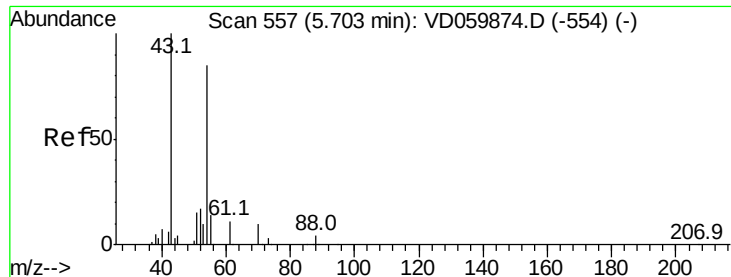


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

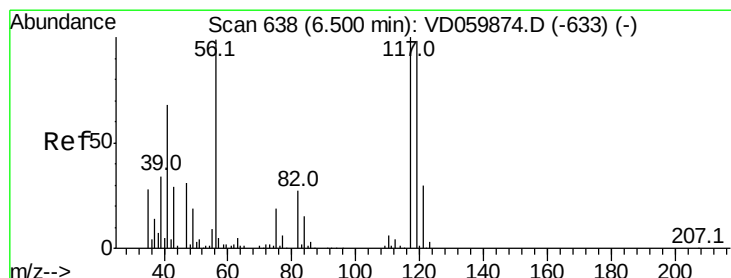
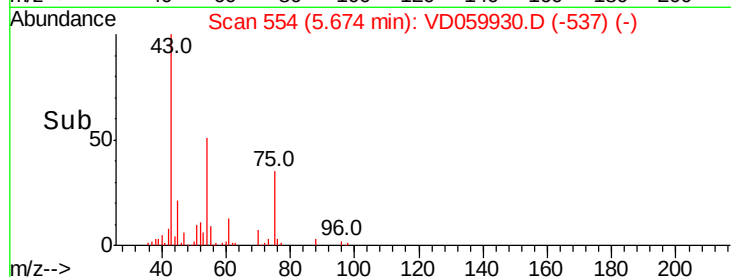
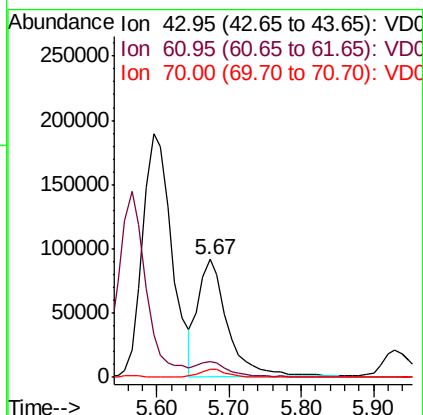
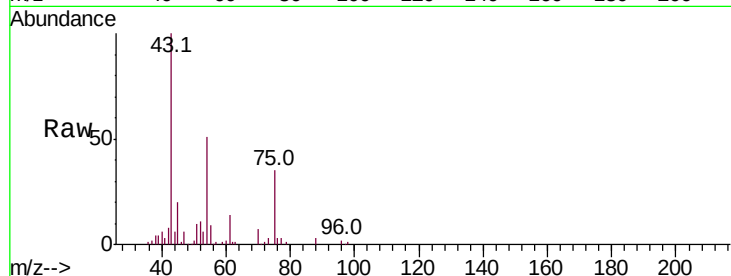




#37
Ethyl Acetate
Concen: 20.589 ug/l
RT: 5.67 min Scan# 554
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

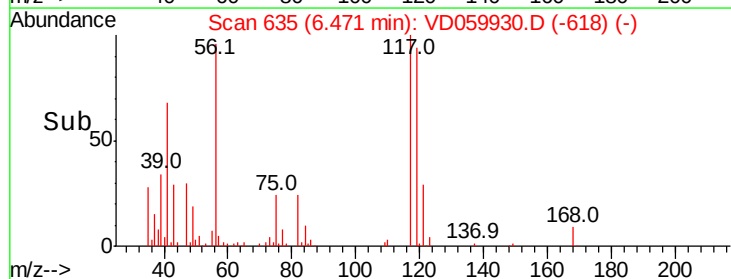
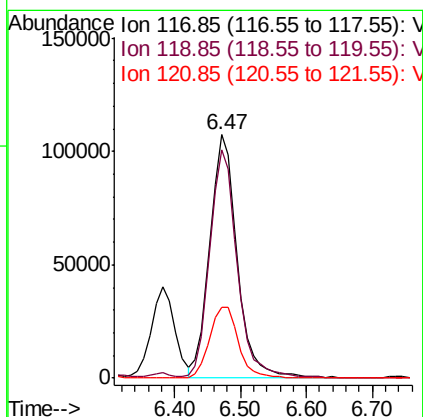
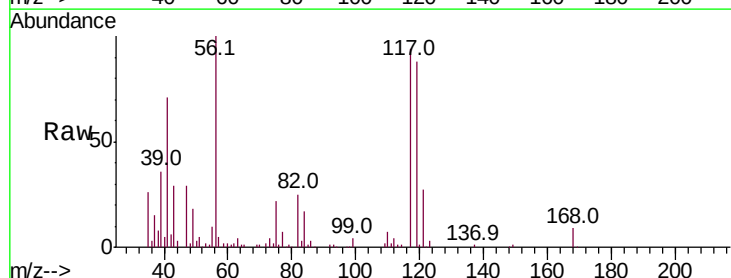
Instrument :
MSVOA_D
ClientSampleID :
VD0831SBS01

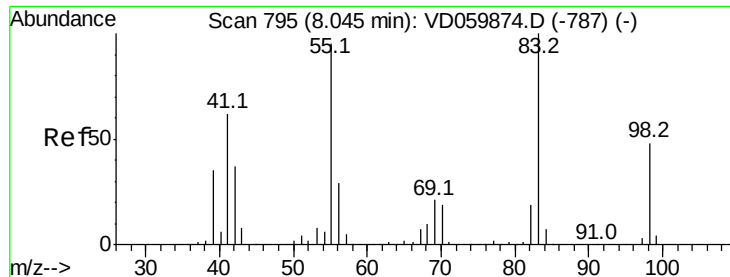
Tot Ion: 43 Resp: 255495
Ion Ratio Lower Upper
43 100
61 13.6 11.0 16.6
70 7.4 5.7 8.5



#38
Carbon Tetrachloride
Concen: 18.866 ug/l
RT: 6.47 min Scan# 635
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 117 Resp: 303616
Ion Ratio Lower Upper
117 100
119 93.7 77.2 115.8
121 29.0 24.0 36.0

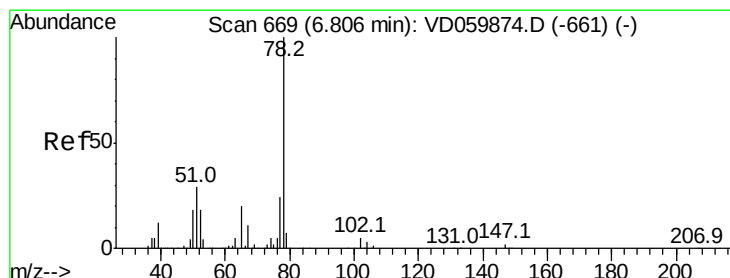
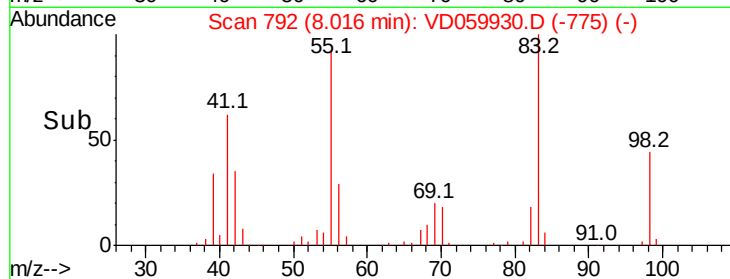
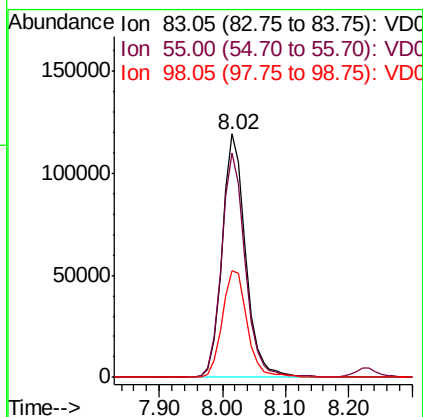
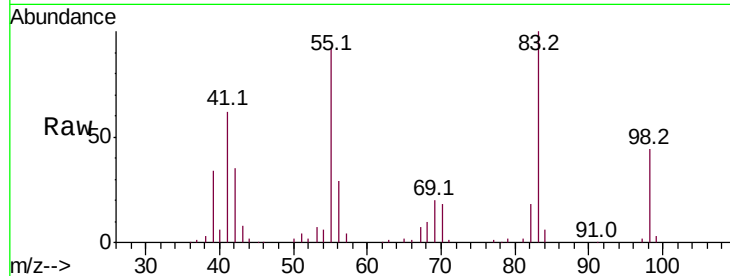




#39
Methvlcvclohexane
Concen: 17.812 ug/l
RT: 8.02 min Scan# 792
Delta R.T. -0.03 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

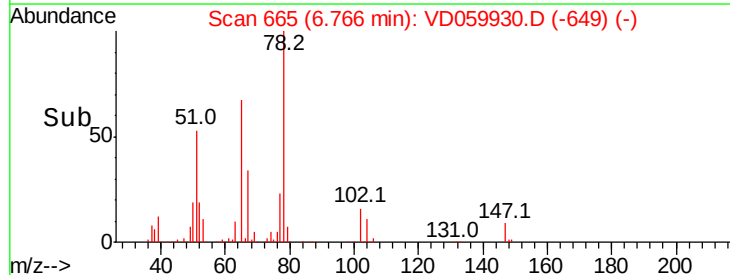
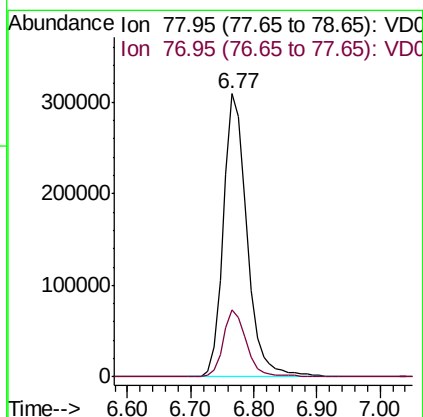
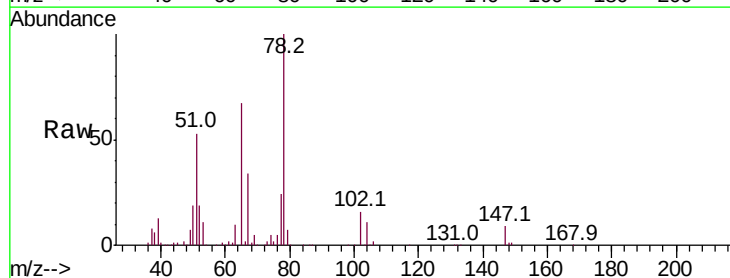
Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

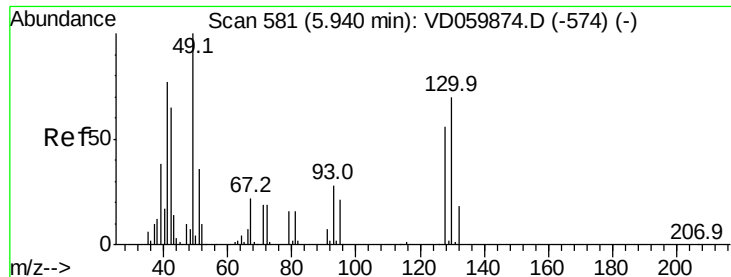
Tot Ion: 83 Resp: 306888
Ion Ratio Lower Upper
83 100
55 92.4 75.8 113.6
98 43.8 38.3 57.5



#40
Benzene
Concen: 19.420 ug/l
RT: 6.77 min Scan# 665
Delta R.T. -0.04 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 78 Resp: 805244
Ion Ratio Lower Upper
78 100
77 23.5 19.0 28.4





#41

Methacrylonitrile

Concen: 45.696 ug/l

RT: 5.93 min Scan# 580

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

Tot Ion: 41 Resp: 285643

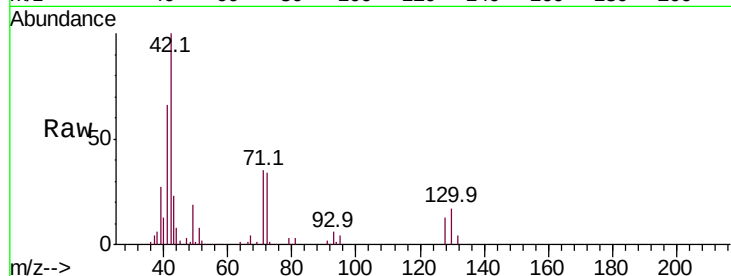
Ion Ratio Lower Upper

41 100

39 40.6 39.4 59.2

67 6.8 22.2 33.2#

52 3.3 10.1 15.1#

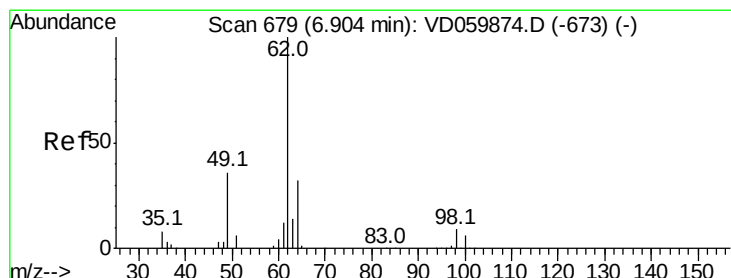
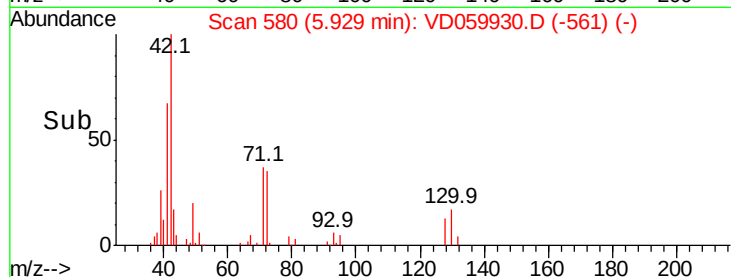
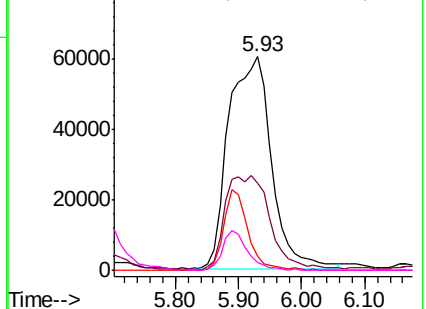


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 19.954 ug/l

RT: 6.87 min Scan# 676

Delta R.T. -0.03 min

Lab File: VD059930.D

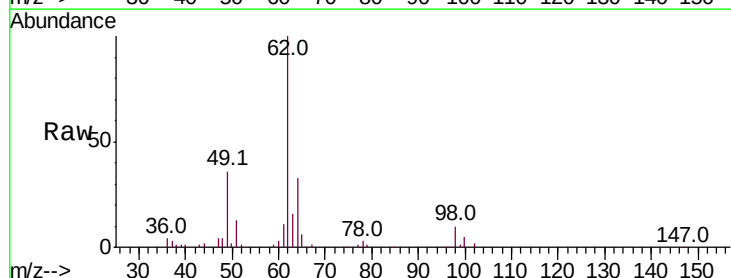
Acq: 31 Aug 2018 12:34

Tgt Ion: 62 Resp: 265612

Ion Ratio Lower Upper

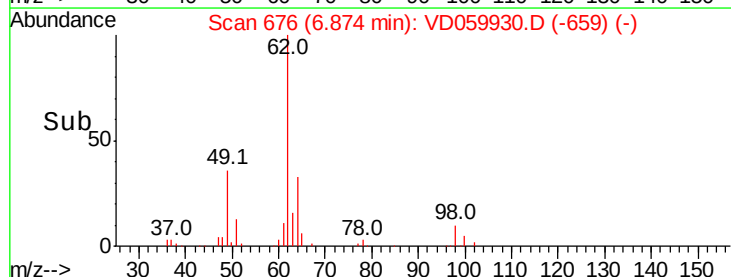
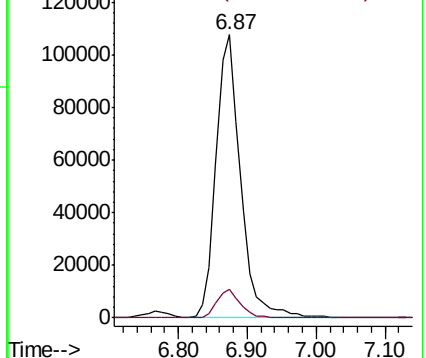
62 100

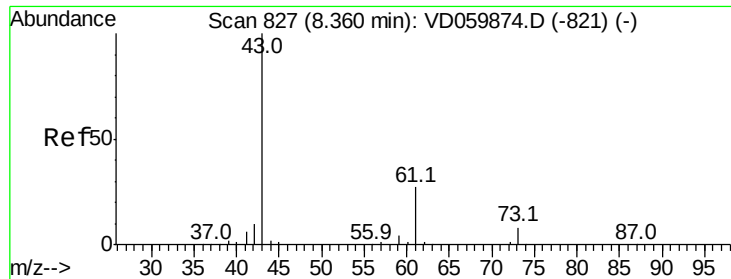
98 10.1 0.0 18.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 19.872 ug/l

RT: 8.33 min Scan# 824

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

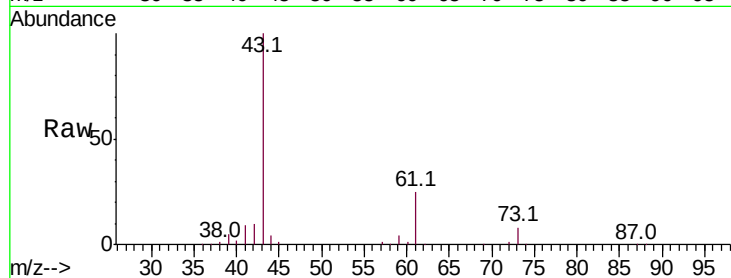
Tot Ion: 43 Resp: 320808

Ion Ratio Lower Upper

43 100

61 25.2 21.4 32.2

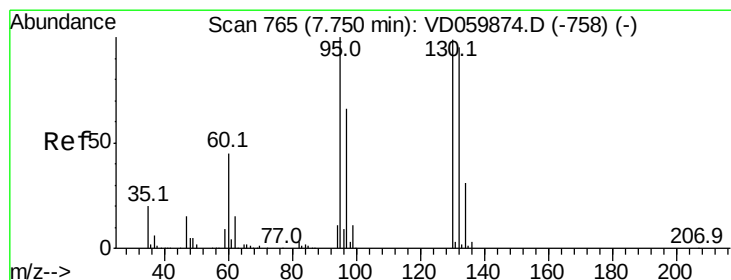
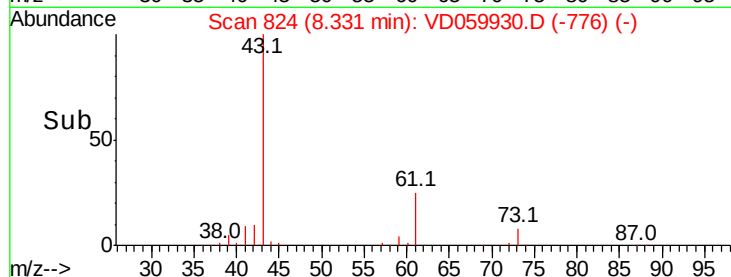
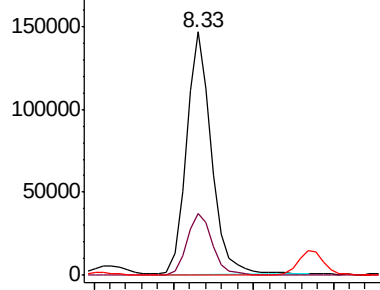
87 0.4 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 19.238 ug/l

RT: 7.72 min Scan# 762

Delta R.T. -0.03 min

Lab File: VD059930.D

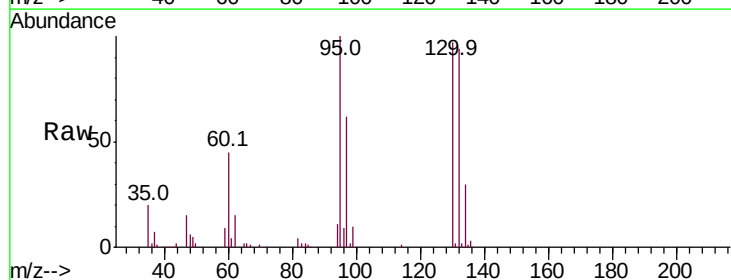
Acq: 31 Aug 2018 12:34

Tgt Ion:130 Resp: 234872

Ion Ratio Lower Upper

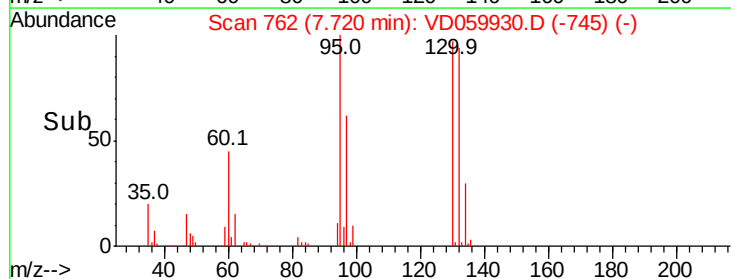
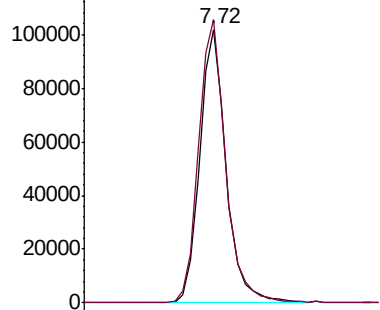
130 100

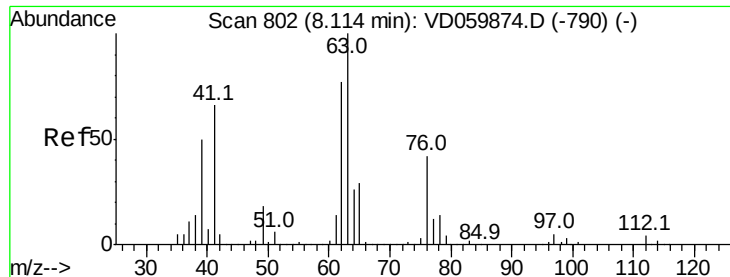
95 103.6 0.0 202.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

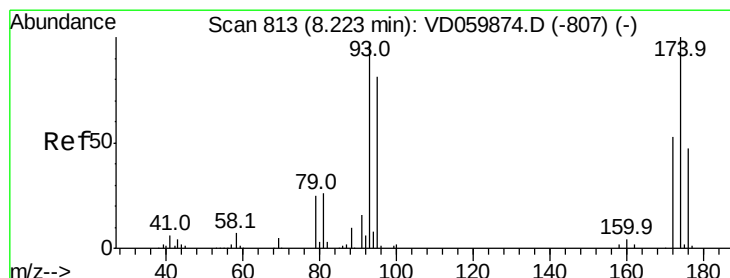
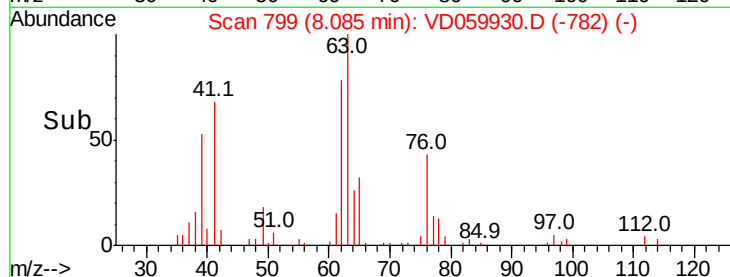
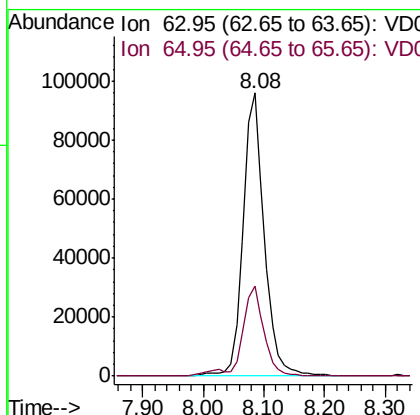
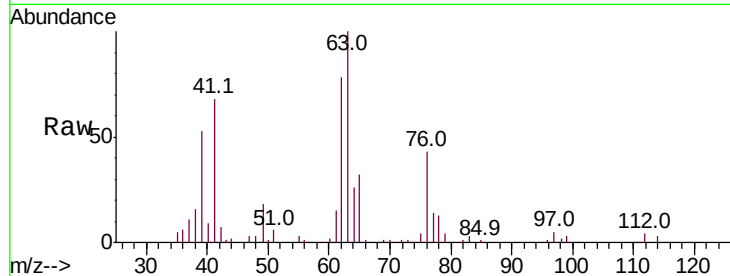




#45
 1,2-Dichloropropane
 Concen: 20.003 ug/l
 RT: 8.08 min Scan# 799
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

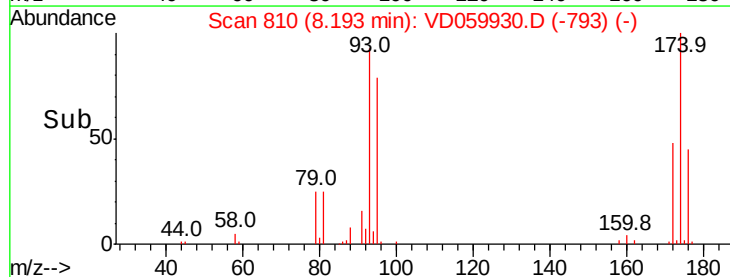
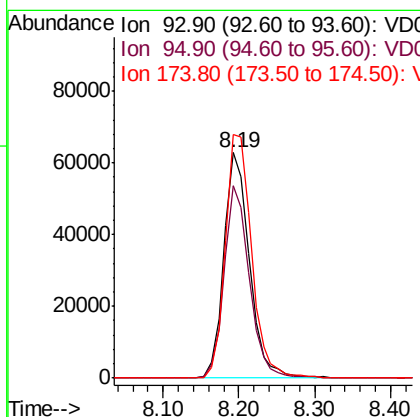
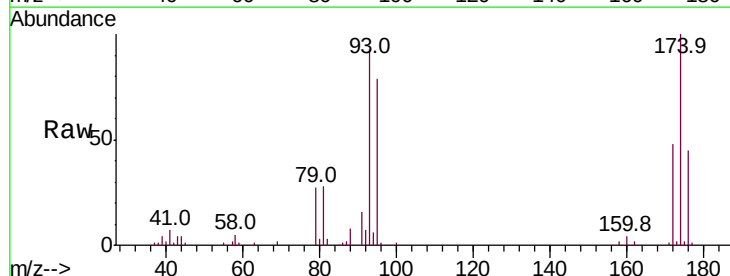
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

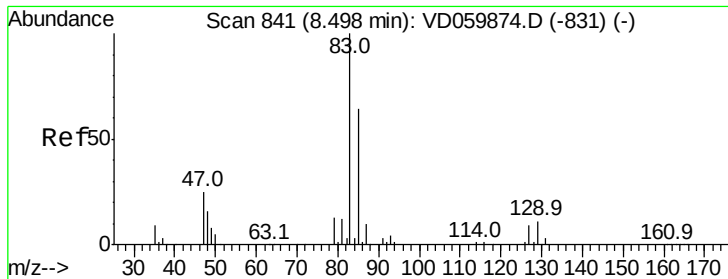
Tot Ion: 63 Resp: 231842
 Ion Ratio Lower Upper
 63 100
 65 32.0 23.5 35.3



#46
 Dibromomethane
 Concen: 19.634 ug/l
 RT: 8.19 min Scan# 810
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion: 93 Resp: 146320
 Ion Ratio Lower Upper
 93 100
 95 85.2 66.6 100.0
 174 108.0 82.4 123.6





#47

Bromodichloromethane

Concen: 20.268 ug/l

RT: 8.47 min Scan# 838

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

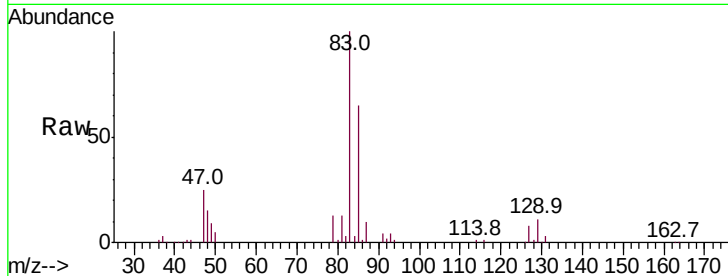
Tot Ion: 83 Resp: 341938

Ion Ratio Lower Upper

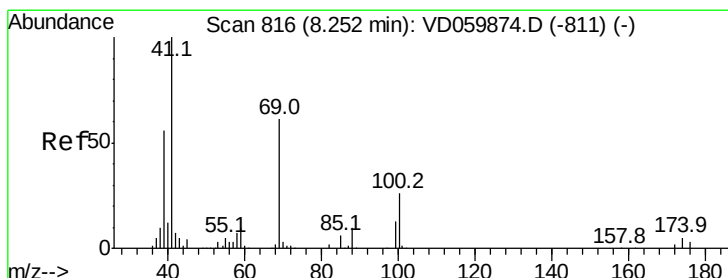
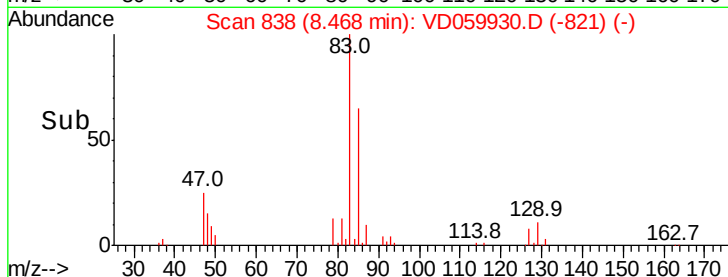
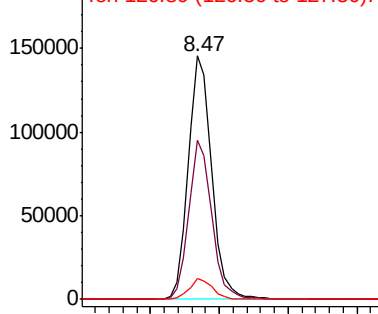
83 100

85 65.3 51.3 76.9

127 8.4 7.0 10.4



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 19.764 ug/l

RT: 8.22 min Scan# 813

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

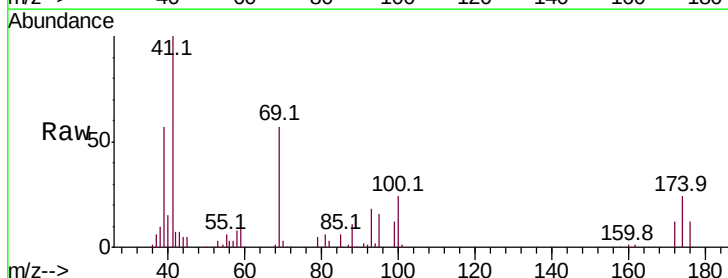
Tgt Ion: 41 Resp: 186001

Ion Ratio Lower Upper

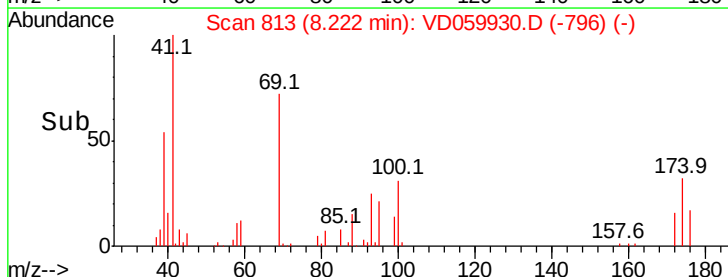
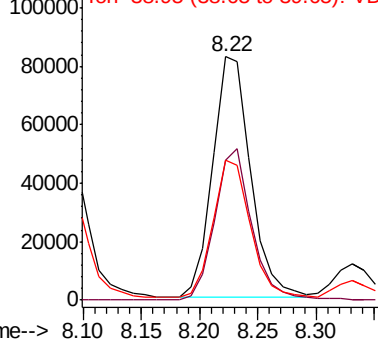
41 100

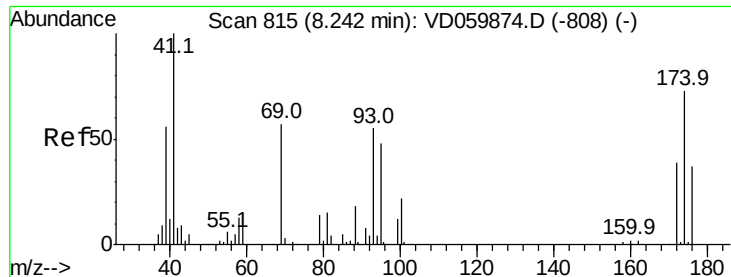
69 57.5 48.0 72.0

39 57.5 45.4 68.0



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: 426.401 ug/l

RT: 8.21 min Scan# 812

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

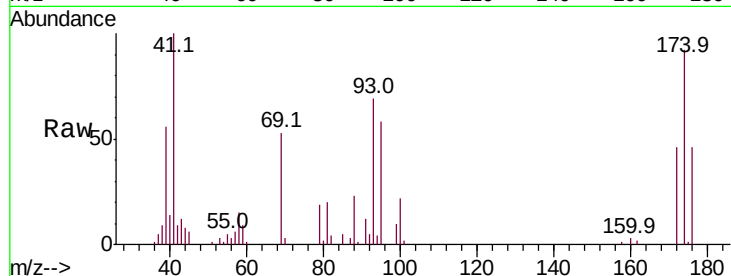
Tot Ion: 88 Resp: 35826

Ion Ratio Lower Upper

88 100

43 51.2 45.0 67.6

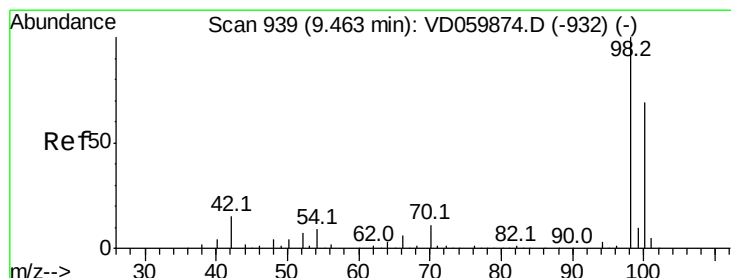
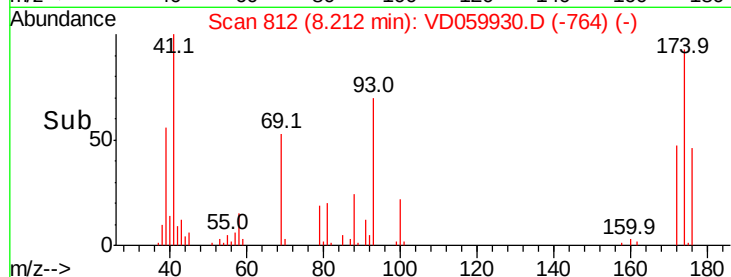
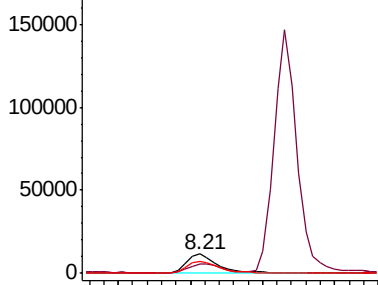
58 62.6 55.8 83.8



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 426.401 ug/l

RT: 9.43 min Scan# 936

Delta R.T. -0.03 min

Lab File: VD059930.D

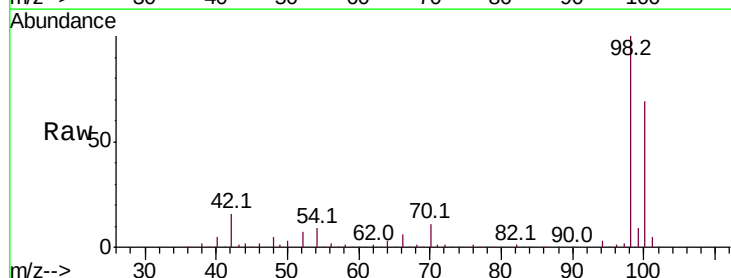
Acq: 31 Aug 2018 12:34

Tgt Ion: 98 Resp: 1904304

Ion Ratio Lower Upper

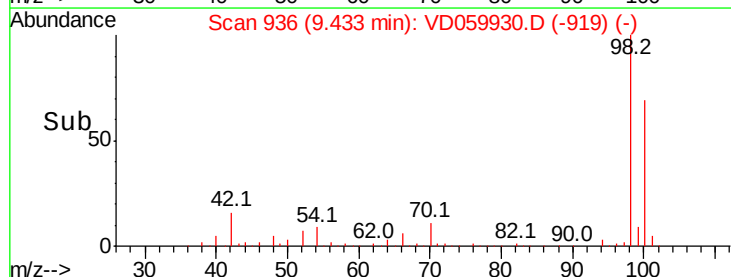
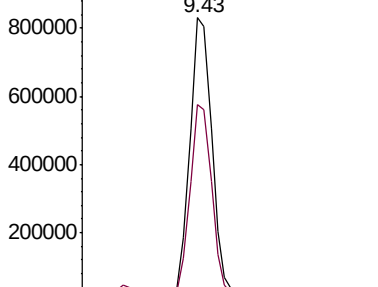
98 100

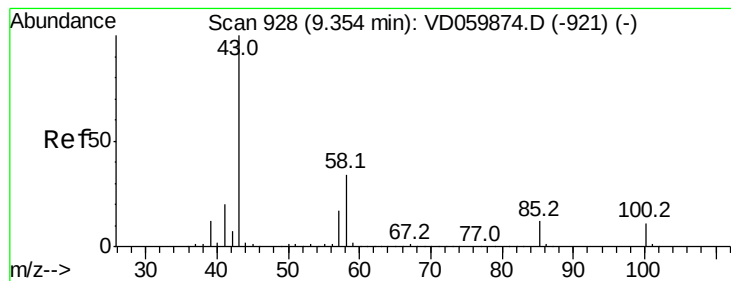
100 69.2 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 89.679 ug/l

RT: 9.32 min Scan# 925

Delta R.T. -0.03 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

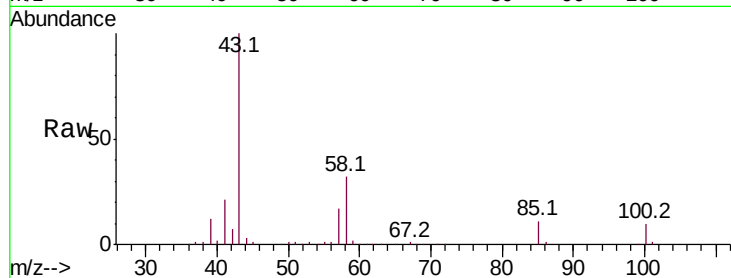
VD0831SBS01

Tot Ion: 43 Resp: 1079358

Ion Ratio Lower Upper

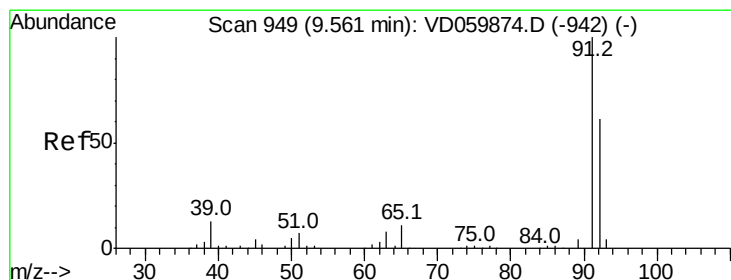
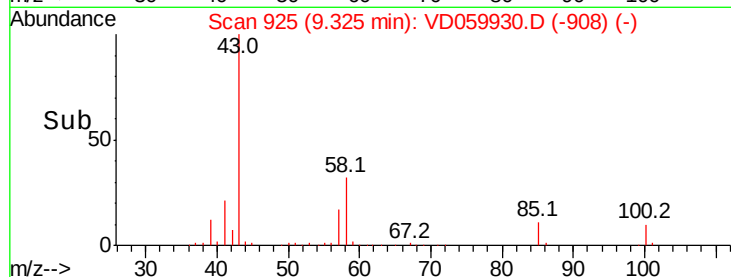
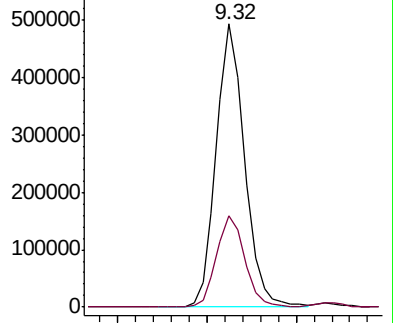
43 100

58 32.3 27.0 40.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 19.688 ug/l

RT: 9.53 min Scan# 946

Delta R.T. -0.03 min

Lab File: VD059930.D

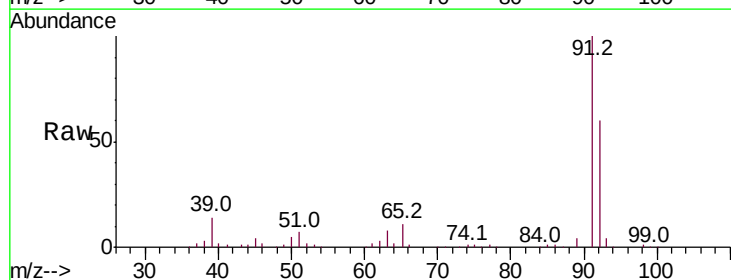
Acq: 31 Aug 2018 12:34

Tgt Ion: 92 Resp: 523487

Ion Ratio Lower Upper

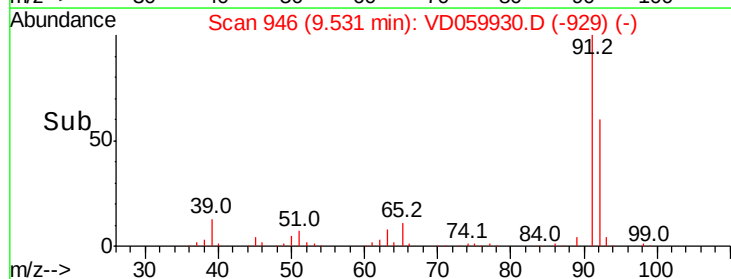
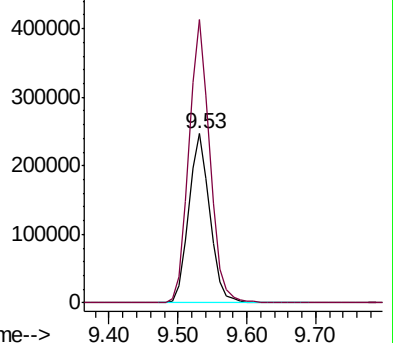
92 100

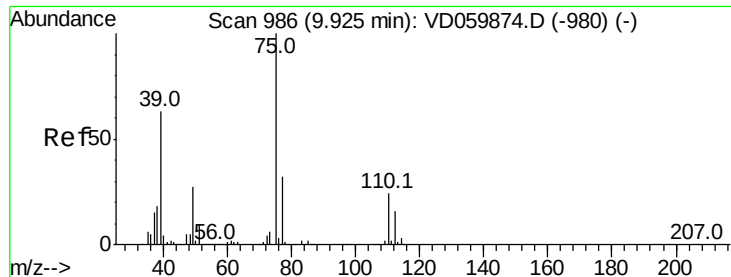
91 167.6 131.4 197.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 19.911 ug/l

RT: 9.91 min Scan# 984

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

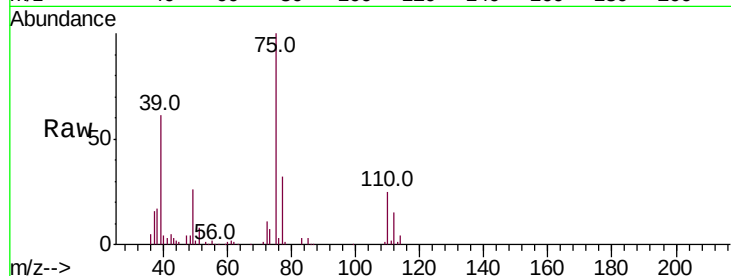
VD0831SBS01

Tot Ion: 75 Resp: 310707

Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

9.91

150000

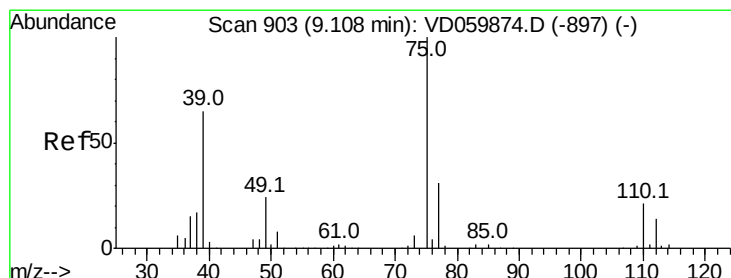
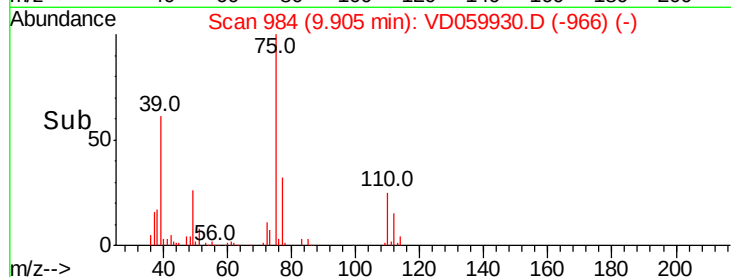
100000

50000

0

9.80 9.90 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.904 ug/l

RT: 9.09 min Scan# 901

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

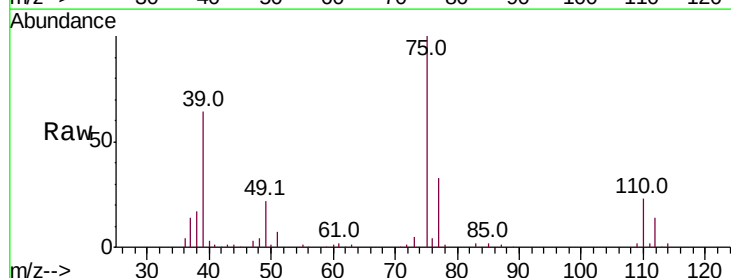
Tgt Ion: 75 Resp: 360114

Ion Ratio Lower Upper

75 100

77 32.5 24.8 37.2

39 64.2 52.1 78.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

9.09

200000

150000

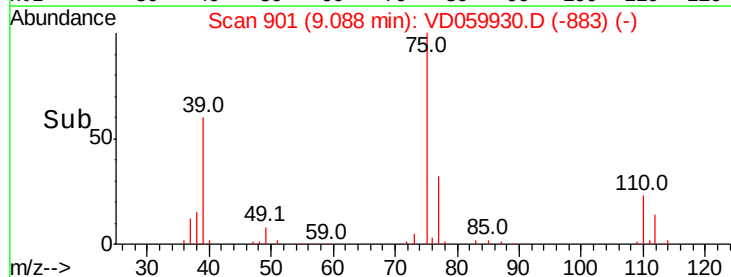
100000

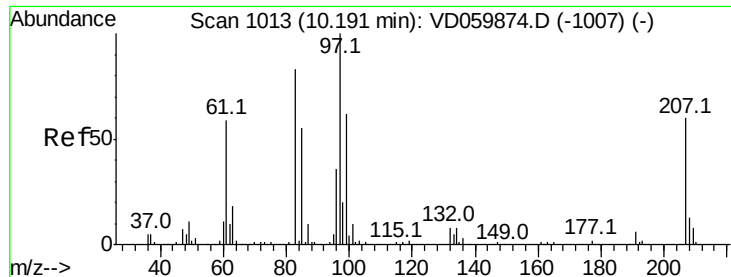
50000

0

9.00 9.10 9.20

Time-->



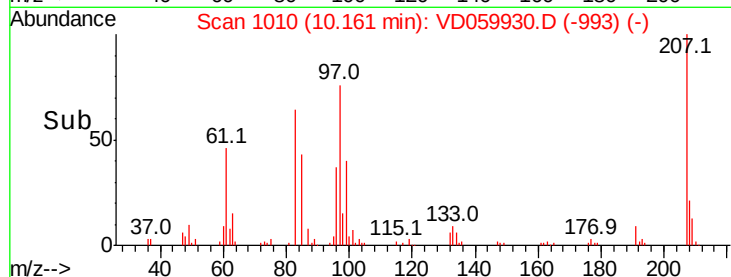
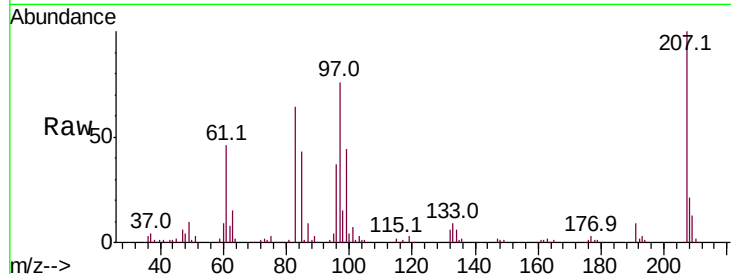


#55
 1,1,2-Trichloroethane
 Concen: 20.236 ug/l
 RT: 10.16 min Scan# 1010
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

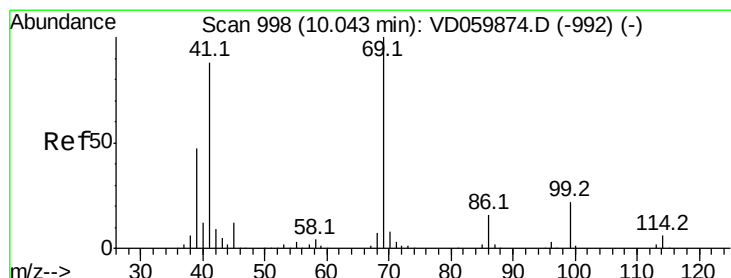
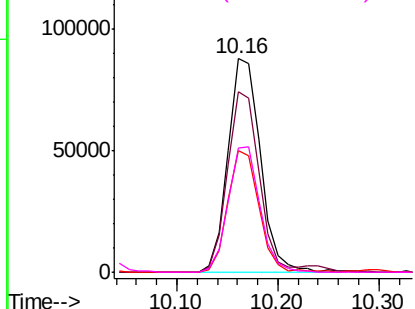
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion: 97 Resp: 196683

Ion	Ratio	Lower	Upper
97	100		
83	84.2	66.7	100.1
85	56.8	43.8	65.6
99	58.0	49.8	74.6



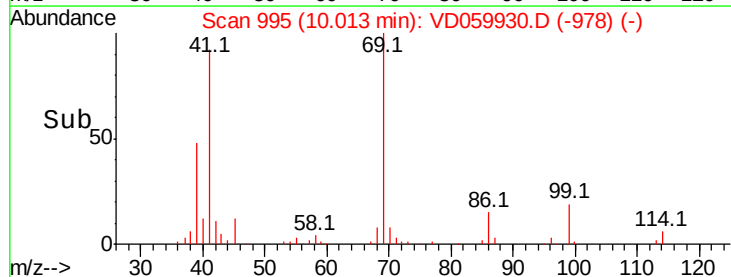
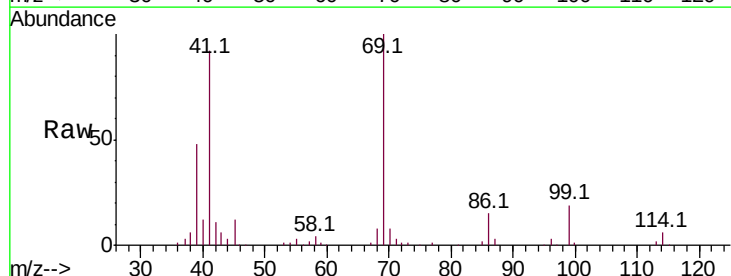
Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC



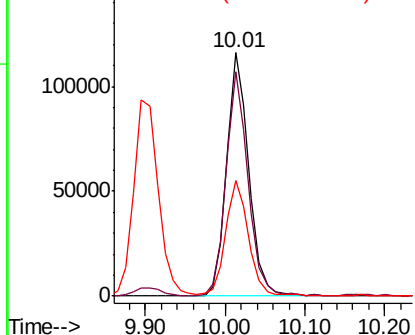
#56
 Ethyl methacrylate
 Concen: 20.289 ug/l
 RT: 10.01 min Scan# 995
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

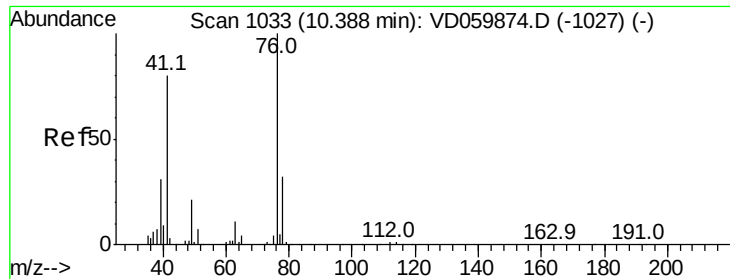
Tgt Ion: 69 Resp: 227585

Ion	Ratio	Lower	Upper
69	100		
41	92.4	71.0	106.4
39	47.7	38.5	57.7



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC

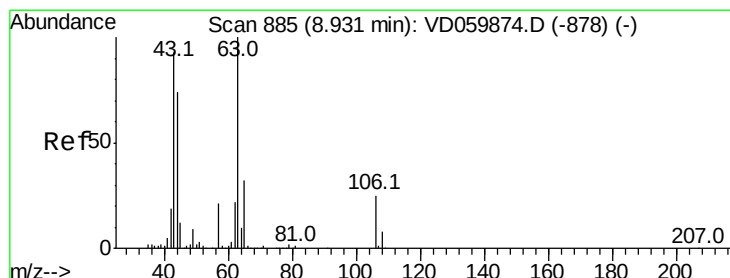
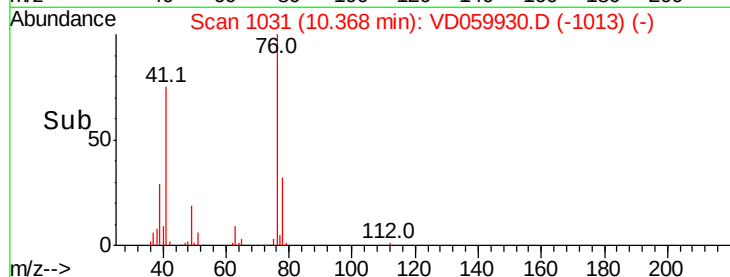
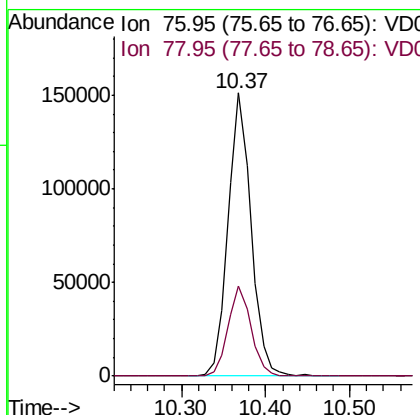
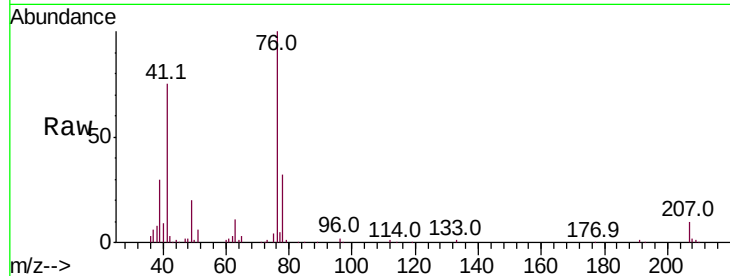




#57
 1,3-Dichloropropane
 Concen: 20.348 ug/l
 RT: 10.37 min Scan# 1031
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

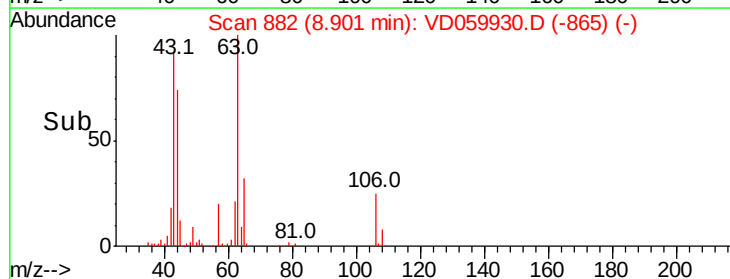
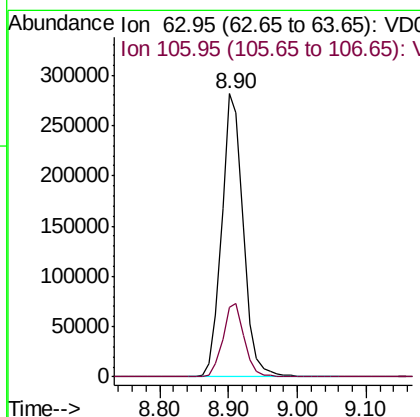
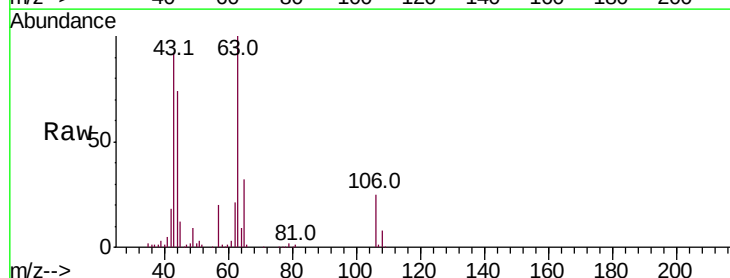
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

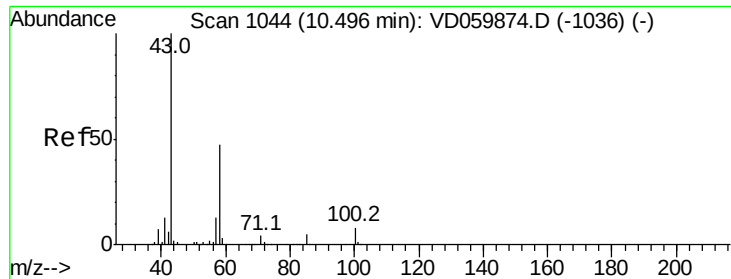
Tot Ion: 76 Resp: 286237
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.8 38.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 113.359 ug/l
 RT: 8.90 min Scan# 882
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion: 63 Resp: 609980
 Ion Ratio Lower Upper
 63 100
 106 24.7 20.1 30.1

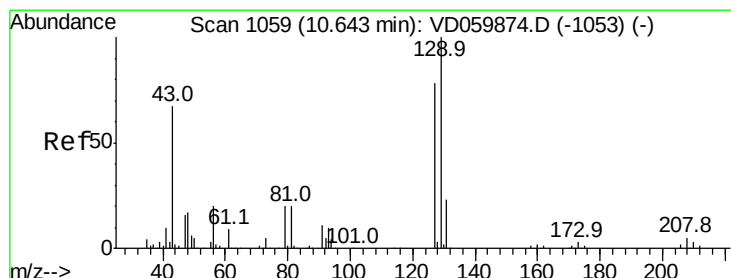
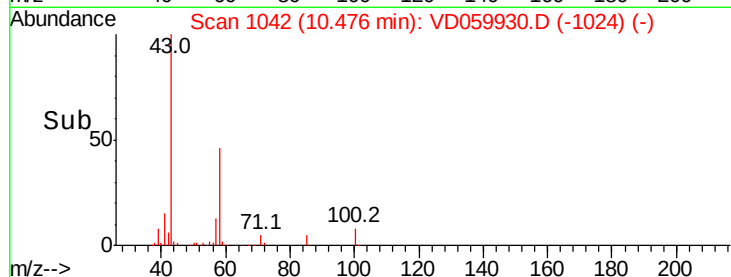
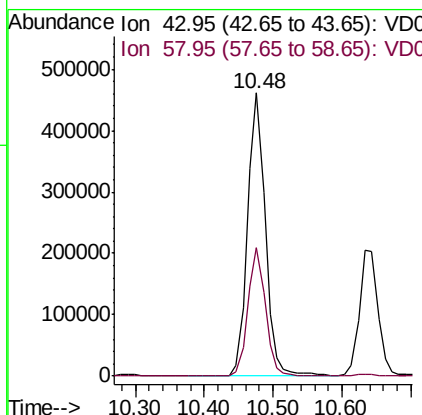
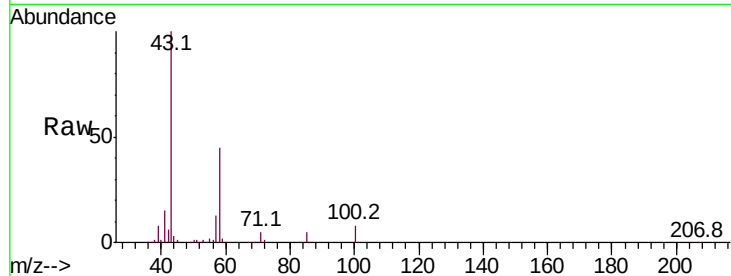




#59
2-Hexanone
Concen: 93.314 ug/l
RT: 10.48 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

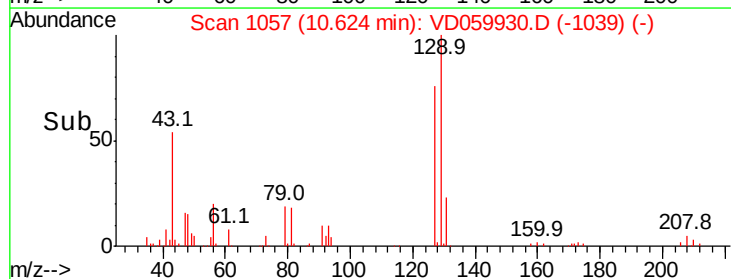
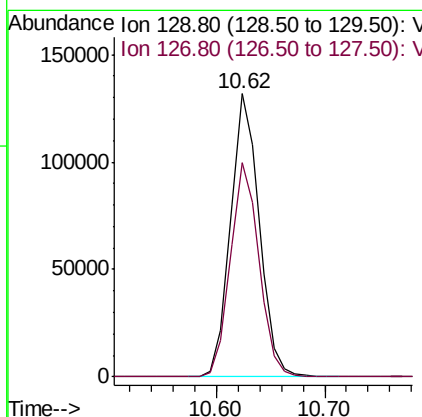
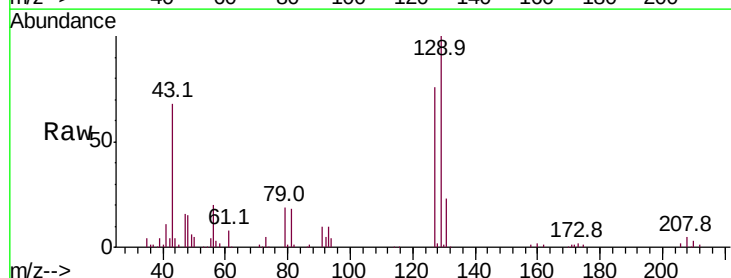
Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

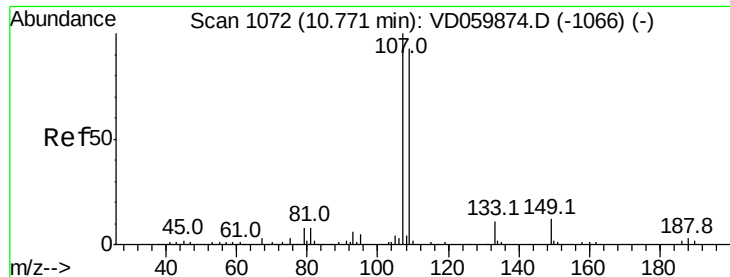
Tot Ion: 43 Resp: 828381
Ion Ratio Lower Upper
43 100
58 45.4 23.3 69.8



#60
Dibromochloromethane
Concen: 19.940 ug/l
RT: 10.62 min Scan# 1057
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 129 Resp: 243595
Ion Ratio Lower Upper
129 100
127 75.7 39.1 117.2

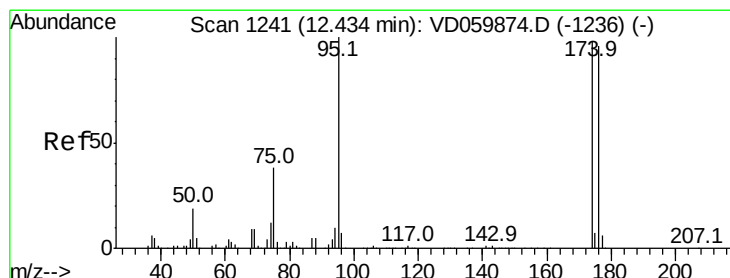
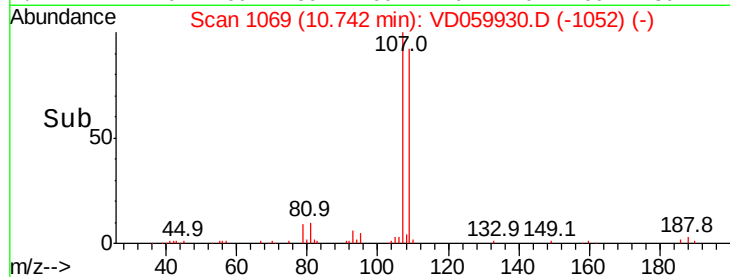
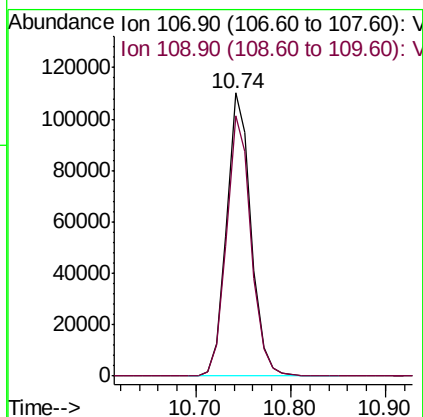
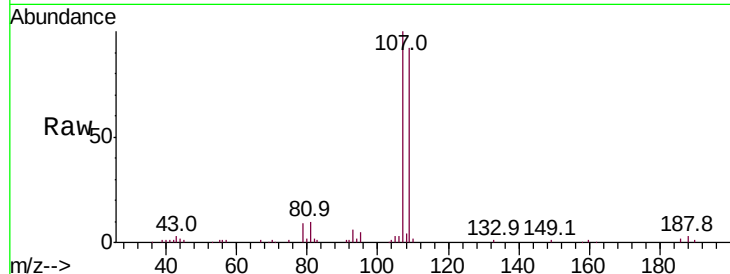




#61
 1,2-Dibromoethane
 Concen: 19.956 ug/l
 RT: 10.74 min Scan# 1069
 Delta R.T. -0.03 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

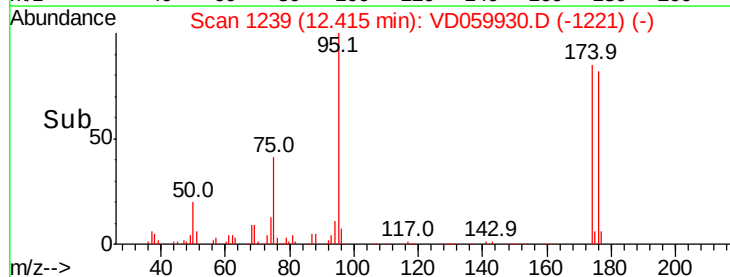
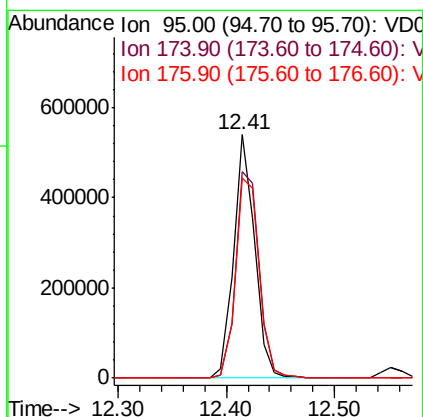
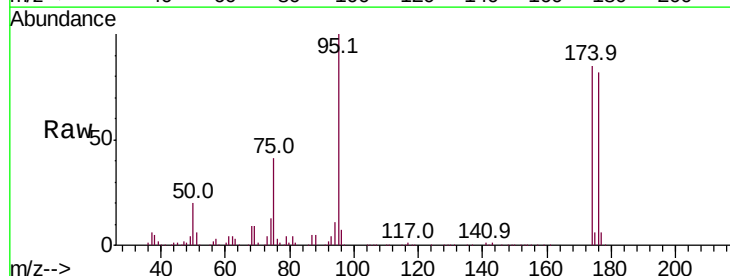
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

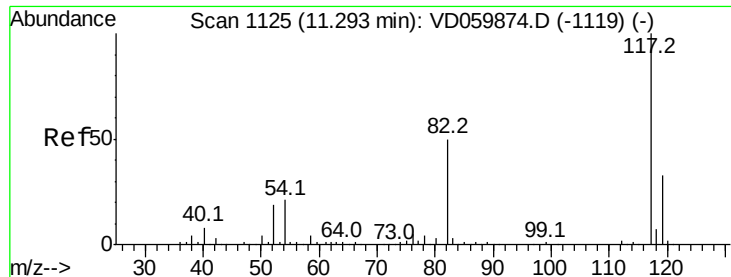
Tot Ion:107 Resp: 196119
 Ion Ratio Lower Upper
 107 100
 109 92.0 74.6 112.0



#62
 4-Bromofluorobenzene
 Concen: 19.956 ug/l
 RT: 12.41 min Scan# 1239
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion: 95 Resp: 731182
 Ion Ratio Lower Upper
 95 100
 174 84.8 0.0 195.6
 176 82.2 0.0 191.2

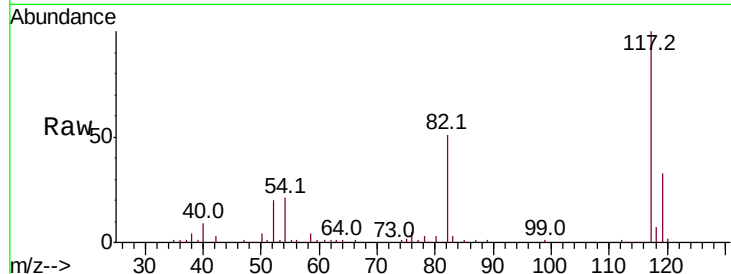




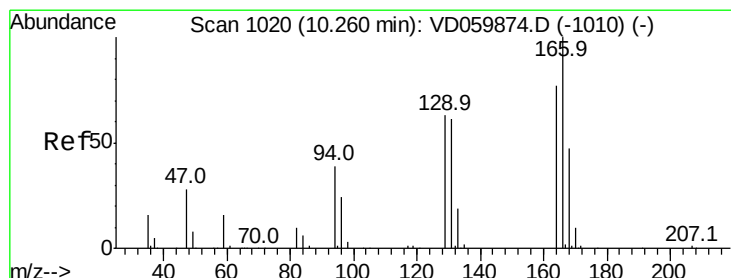
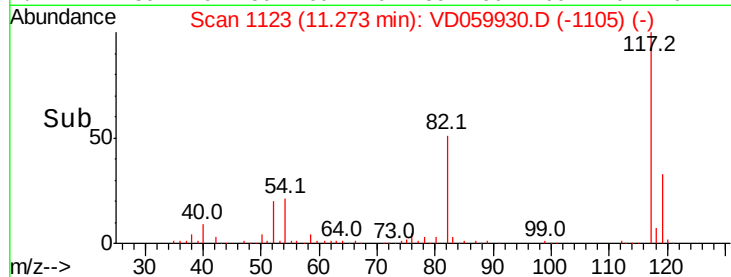
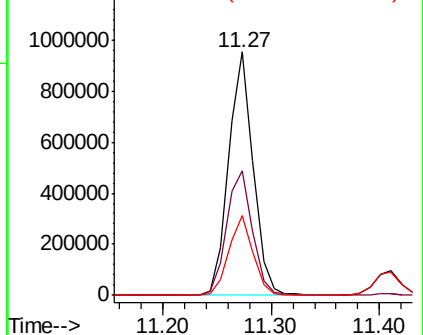
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 1123
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion:117 Resp: 1505591
Ion Ratio Lower Upper
117 100
82 51.2 40.1 60.1
119 32.5 26.7 40.1



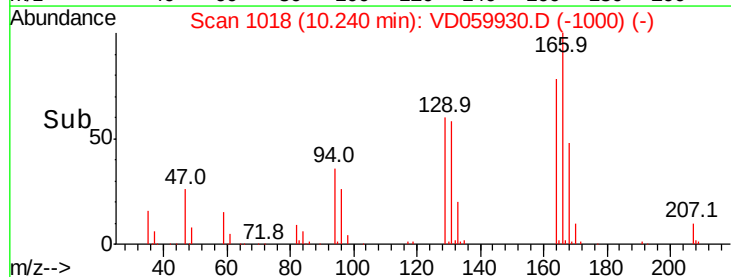
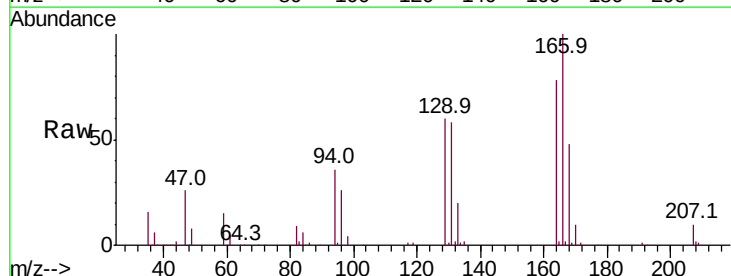
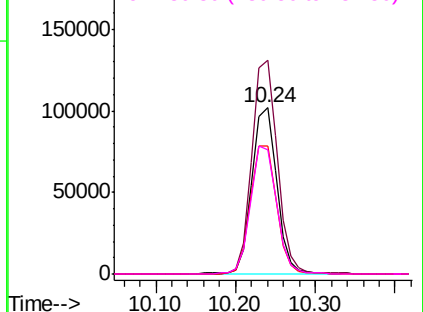
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

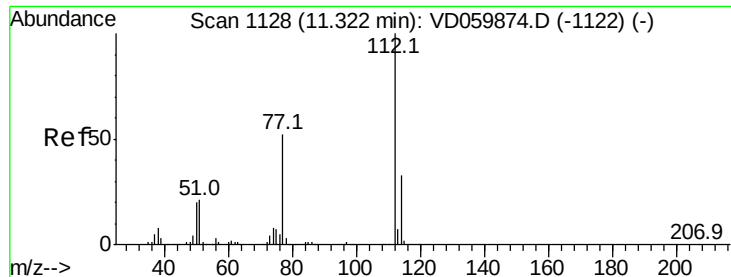


#64
Tetrachloroethene
Concen: 18.933 ug/l
RT: 10.24 min Scan# 1018
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion:164 Resp: 220408
Ion Ratio Lower Upper
164 100
166 128.8 103.4 155.2
129 77.4 65.2 97.8
131 74.5 63.1 94.7

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: 19.742 ug/l

RT: 11.30 min Scan# 1126

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

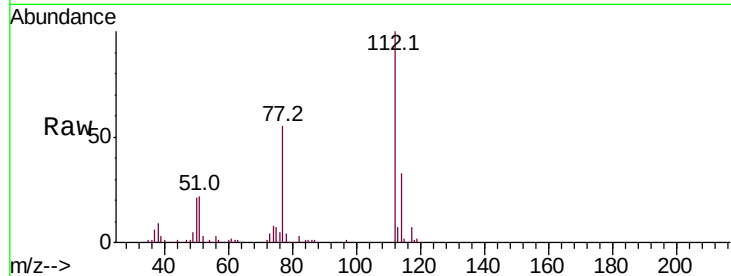
VD0831SBS01

Tot Ion:112 Resp: 590653

Ion Ratio Lower Upper

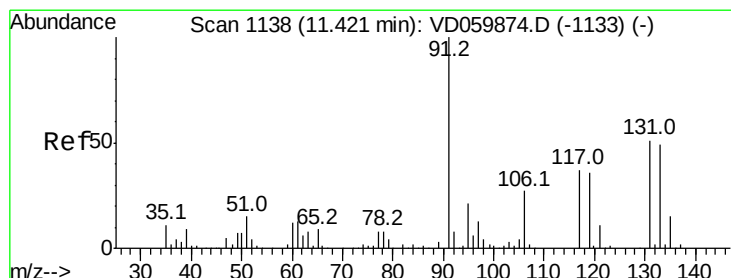
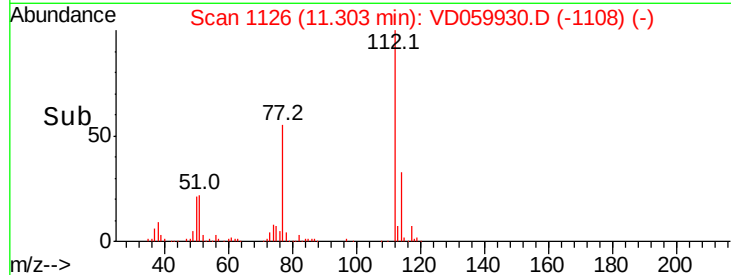
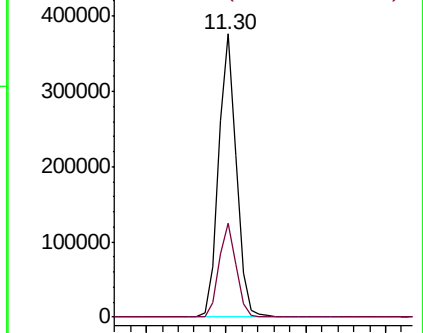
112 100

114 33.1 26.4 39.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.456 ug/l

RT: 11.41 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

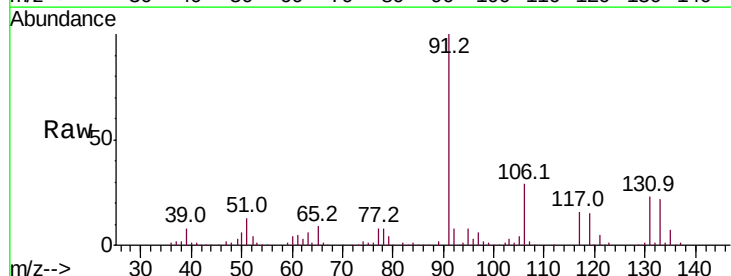
Tgt Ion:131 Resp: 223593

Ion Ratio Lower Upper

131 100

133 97.8 48.3 144.8

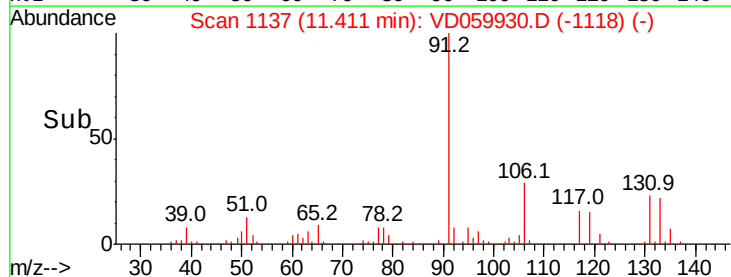
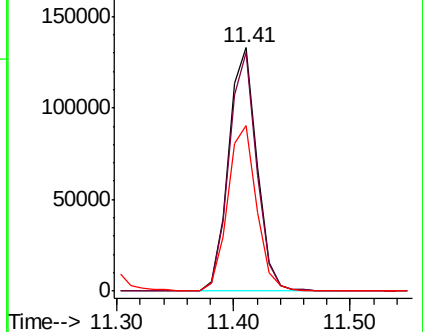
119 67.8 35.4 106.3

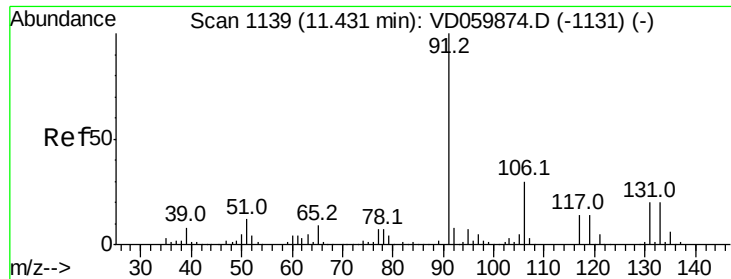


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

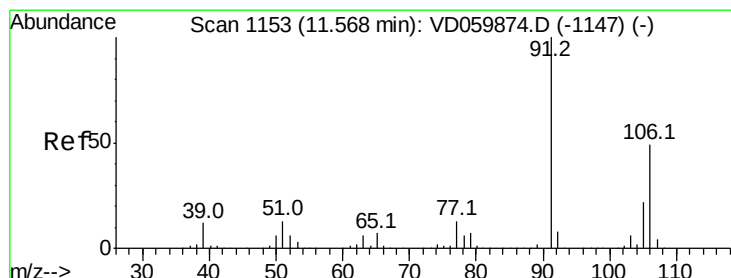
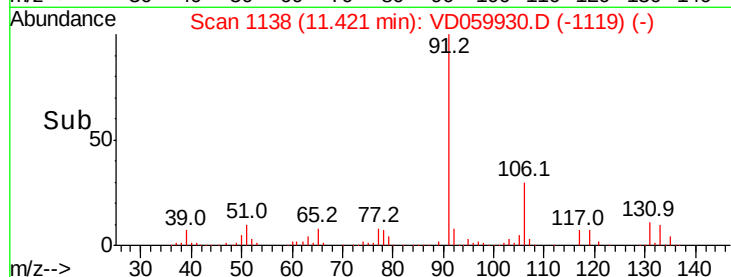
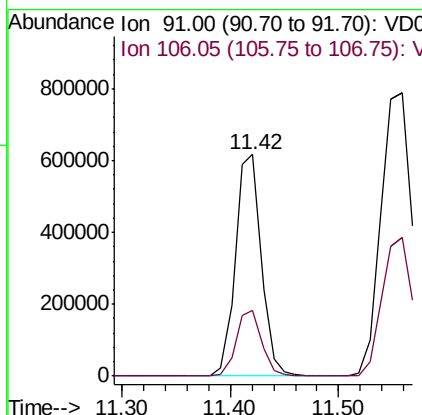
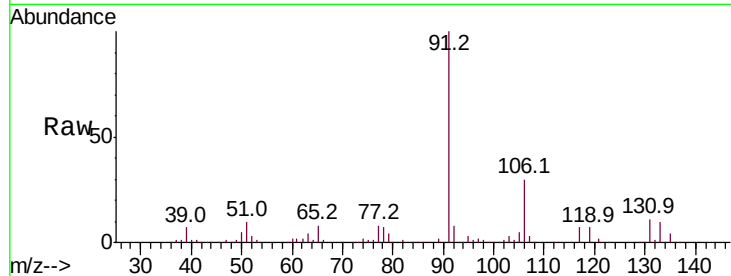




#67
Ethyl Benzene
Concen: 20.404 ug/l
RT: 11.42 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

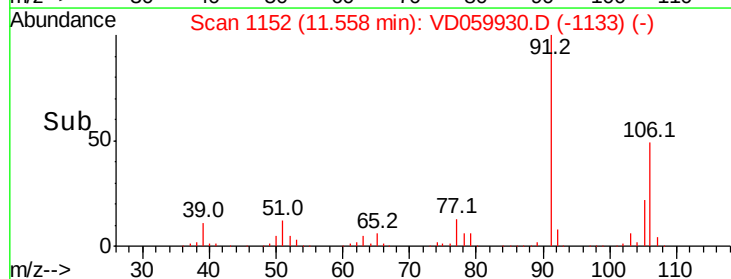
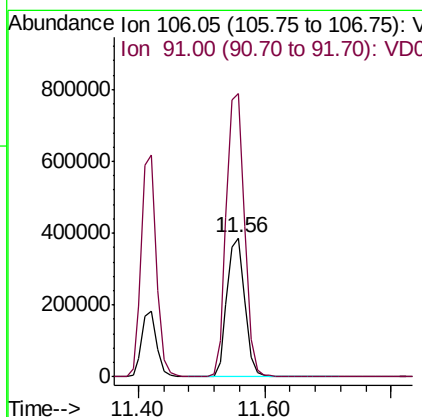
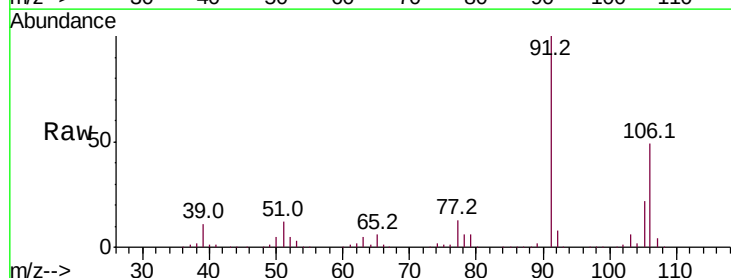
Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

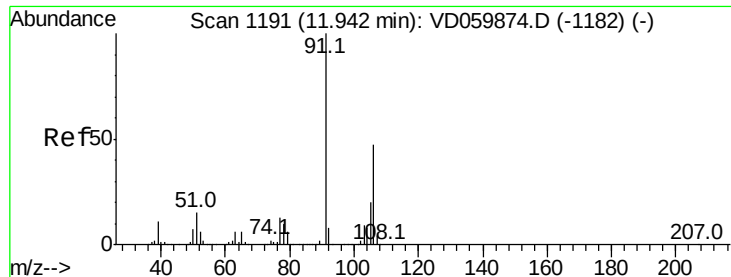
Tot Ion: 91 Resp: 1027036
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.8



#68
m/p-Xylenes
Concen: 41.305 ug/l
RT: 11.56 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion: 106 Resp: 756960
Ion Ratio Lower Upper
106 100
91 203.2 162.0 243.0

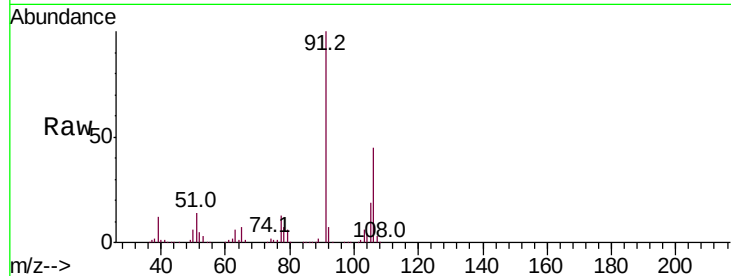




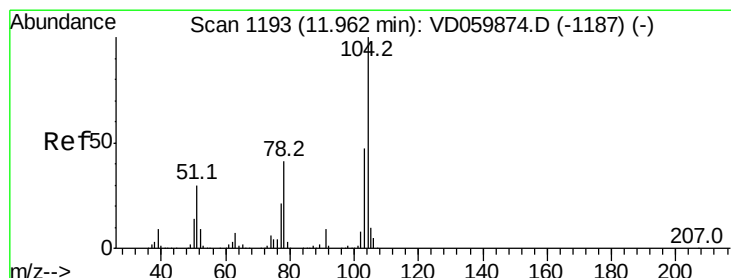
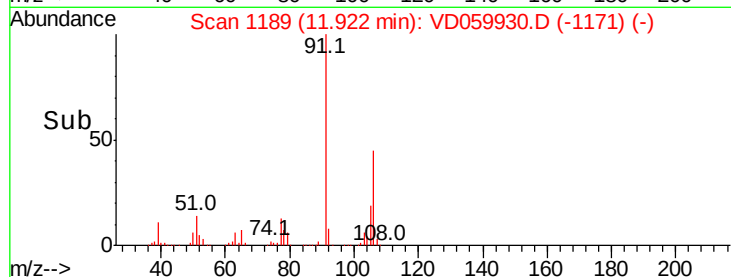
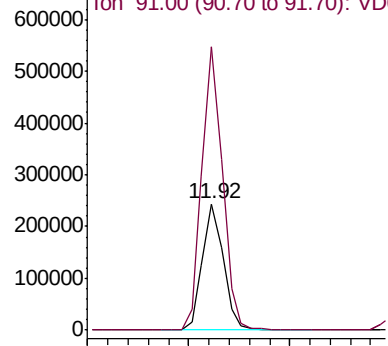
#69
o-Xylene
Concen: 19.702 ug/l
RT: 11.92 min Scan# 1189
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion:106 Resp: 353133
Ion Ratio Lower Upper
106 100
91 224.3 107.3 322.0

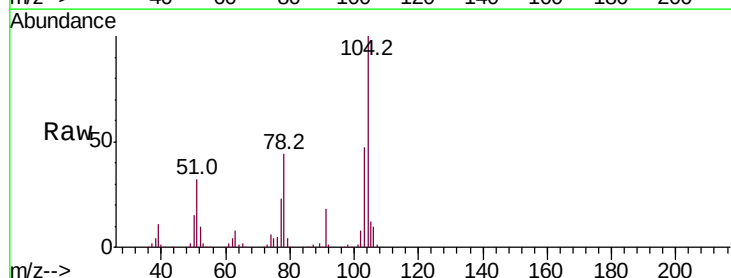


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

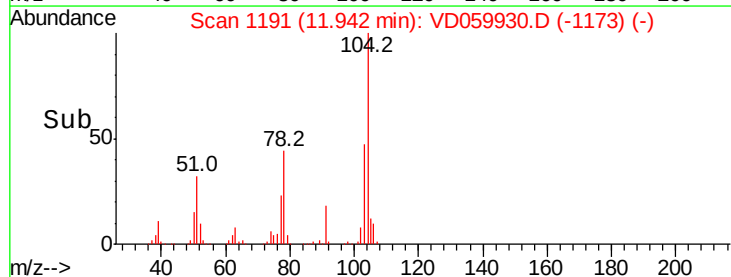
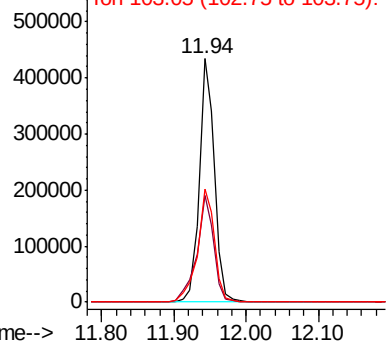


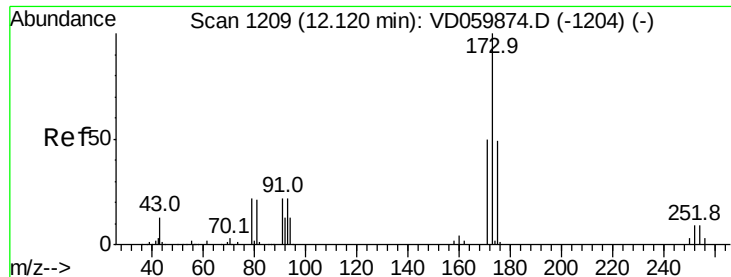
#70
Styrene
Concen: 20.119 ug/l
RT: 11.94 min Scan# 1191
Delta R.T. -0.02 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion:104 Resp: 624415
Ion Ratio Lower Upper
104 100
78 43.8 32.6 49.0
103 46.5 37.7 56.5



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





#71

Bromoform

Concen: 18.769 ug/l

RT: 12.11 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

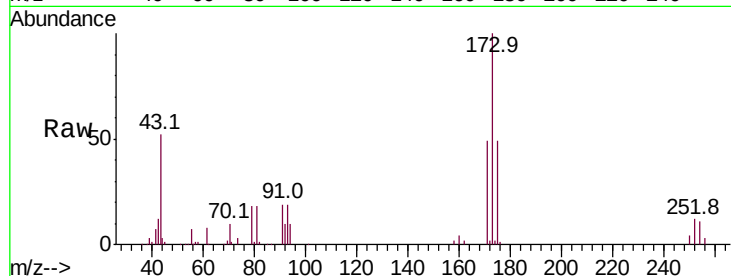
Tot Ion:173 Resp: 177514

Ion Ratio Lower Upper

173 100

175 48.9 24.3 73.0

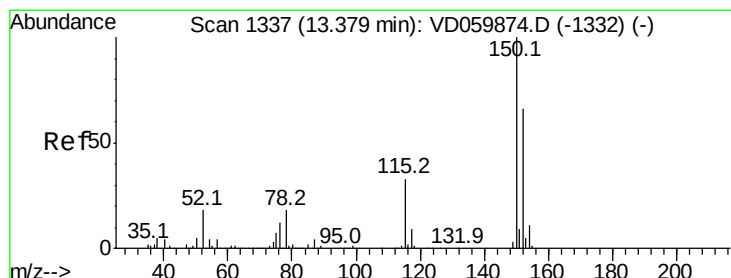
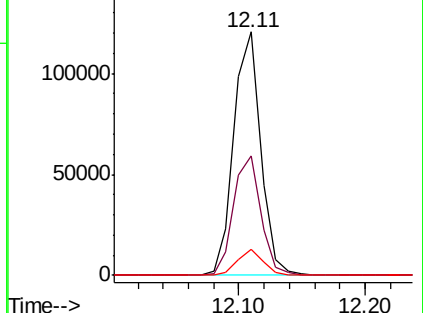
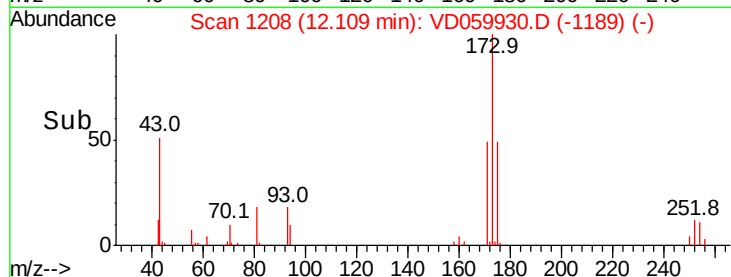
254 10.7 7.0 10.6#



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1335

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

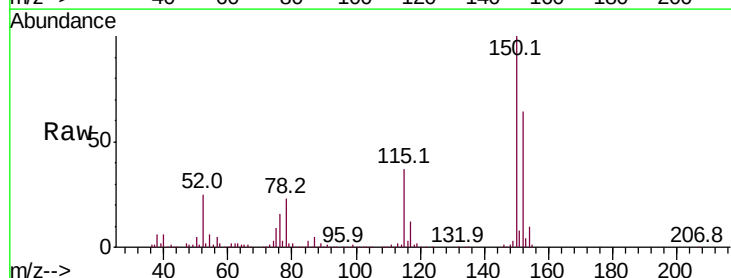
Tgt Ion:152 Resp: 793394

Ion Ratio Lower Upper

152 100

115 58.0 25.7 77.0

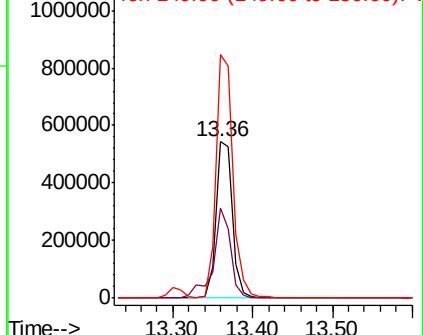
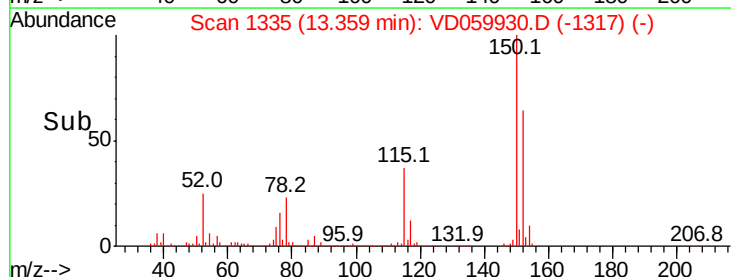
150 156.0 0.0 310.2

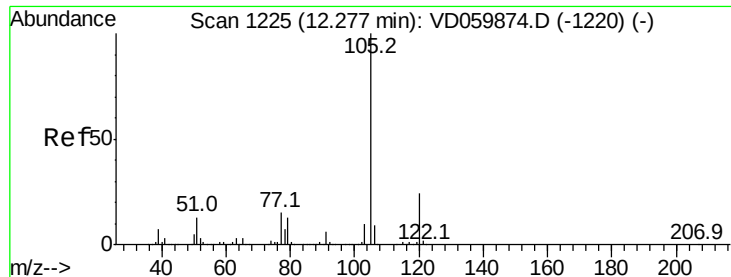


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.304 ug/l

RT: 12.27 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

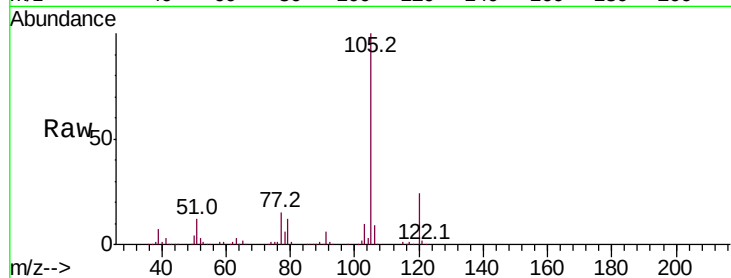
VD0831SBS01

Tot Ion:105 Resp: 977682

Ion Ratio Lower Upper

105 100

120 24.5 11.8 35.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.27

800000

600000

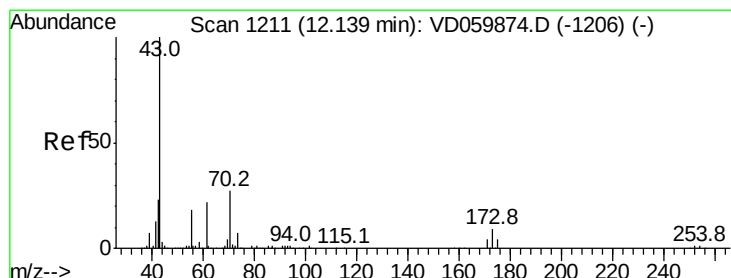
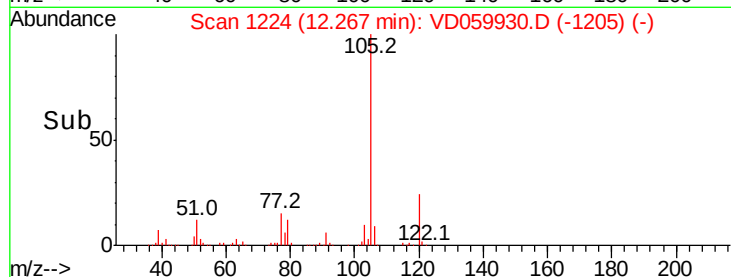
400000

200000

0

Time-->

12.20 12.30 12.40



#74

N-ethyl acetate

Concen: 19.757 ug/l

RT: 12.13 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Tgt Ion: 43 Resp: 438119

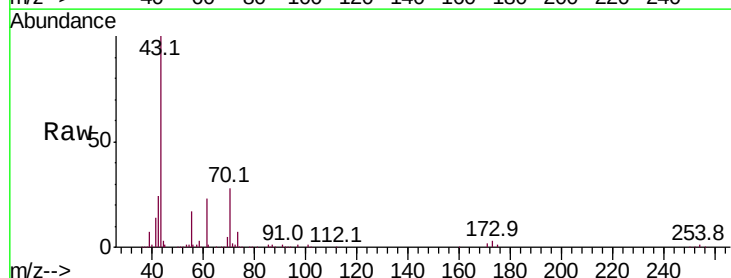
Ion Ratio Lower Upper

43 100

70 28.0 21.4 32.2

55 17.1 14.1 21.1

61 22.8 17.8 26.8



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

400000

300000

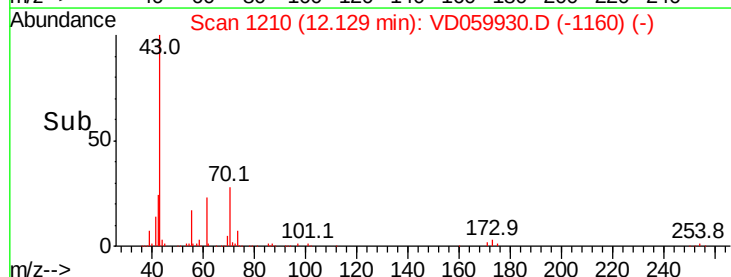
200000

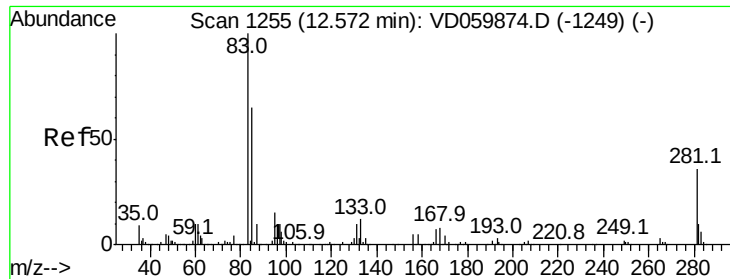
100000

0

Time-->

12.00 12.10 12.20





#75

1,1,2,2-Tetrachloroethane

Concen: 20.211 ug/l

RT: 12.55 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

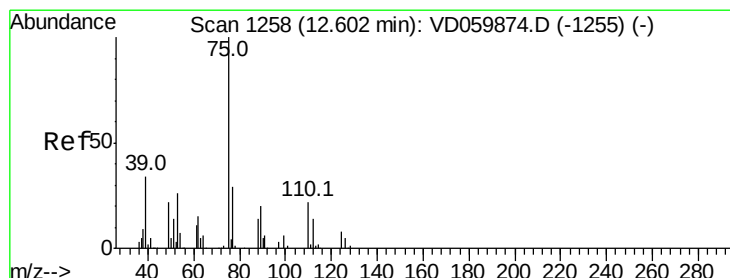
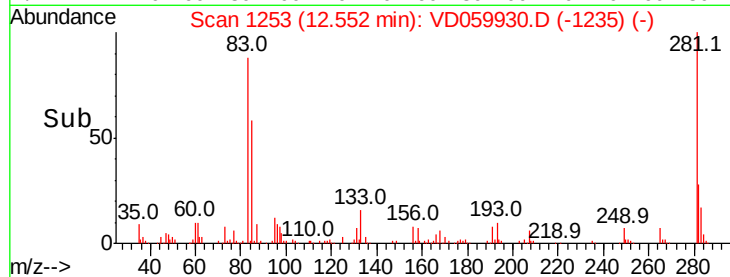
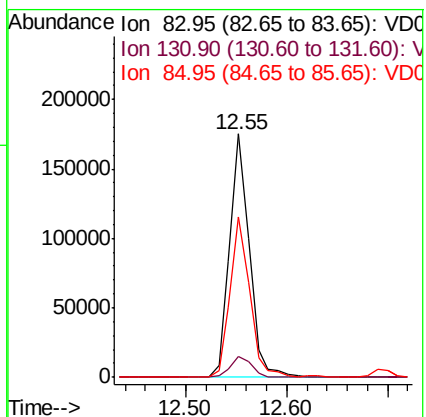
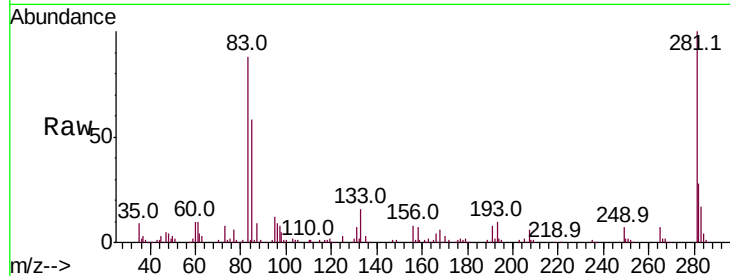
Tot Ion: 83 Resp: 236760

Ion Ratio Lower Upper

83 100

131 8.4 4.8 14.4

85 66.0 32.6 97.8



#76

1,2,3-Trichloropropane

Concen: 19.366 ug/l

RT: 12.59 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VD059930.D

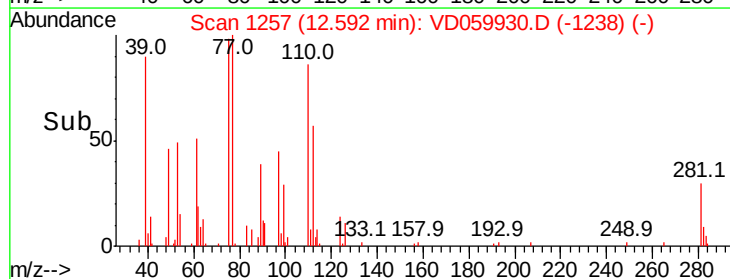
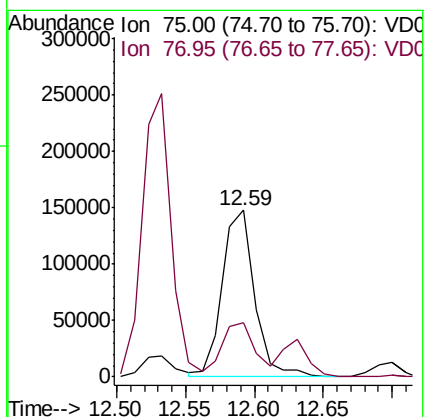
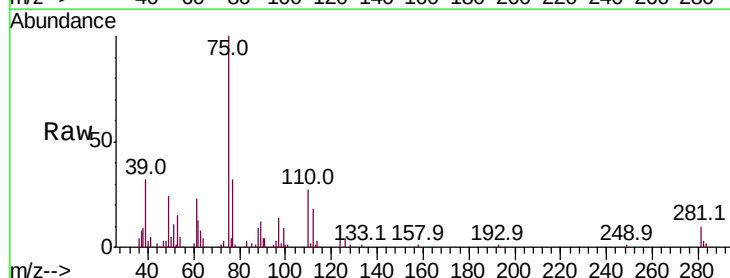
Acq: 31 Aug 2018 12:34

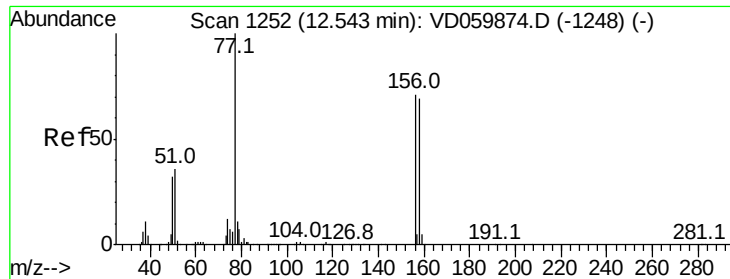
Tgt Ion: 75 Resp: 238811

Ion Ratio Lower Upper

75 100

77 32.5 16.4 49.2





#77

Bromobenzene

Concen: 20.576 ug/l

RT: 12.53 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

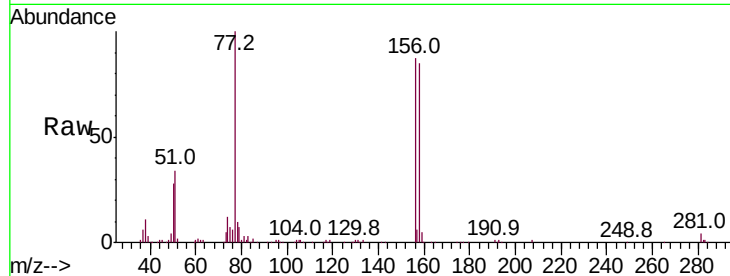
Tot Ion:156 Resp: 288922

Ion Ratio Lower Upper

156 100

77 115.4 70.2 210.4

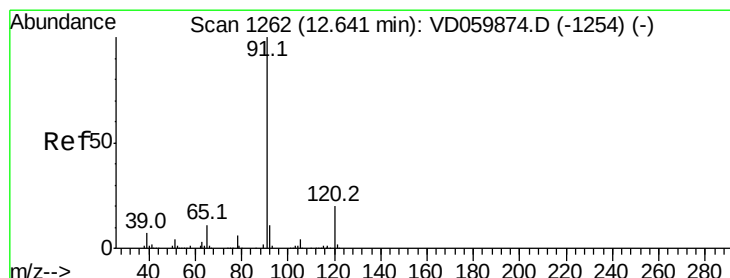
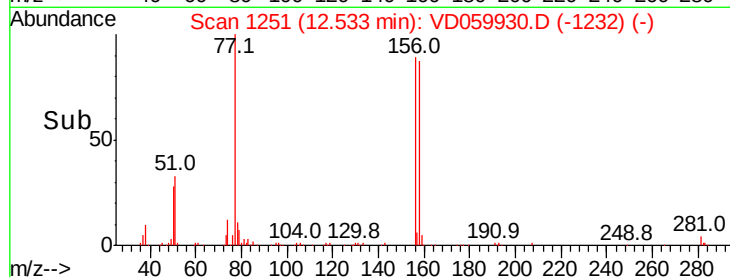
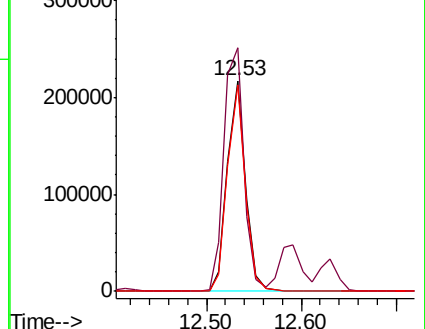
158 98.0 48.4 145.2



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.452 ug/l

RT: 12.63 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VD059930.D

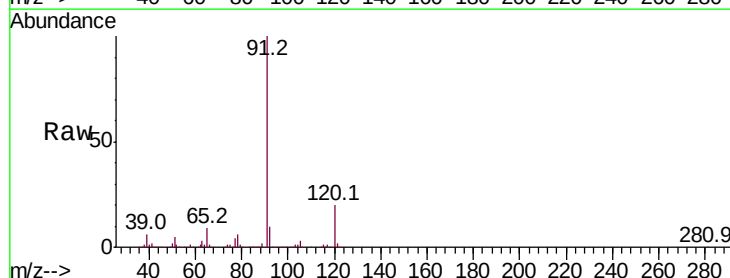
Acq: 31 Aug 2018 12:34

Tgt Ion: 91 Resp: 1247491

Ion Ratio Lower Upper

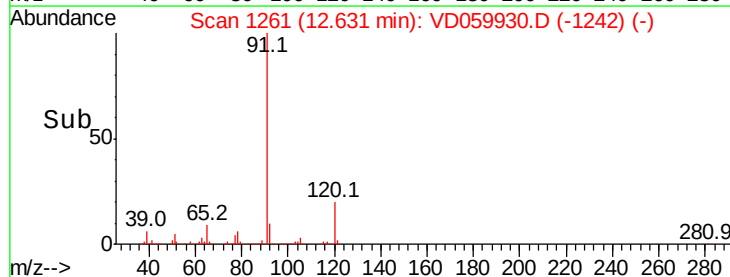
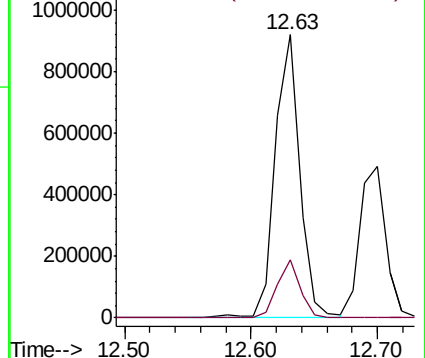
91 100

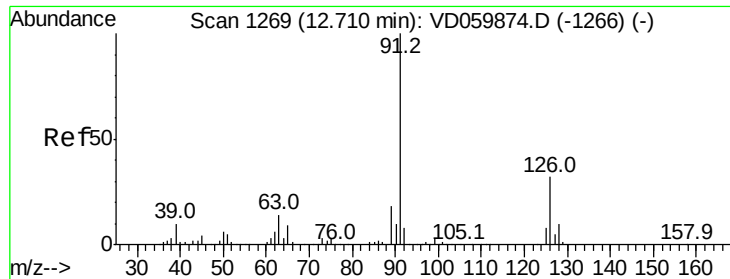
120 20.4 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

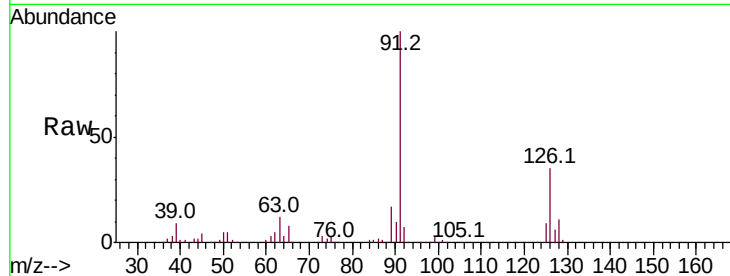




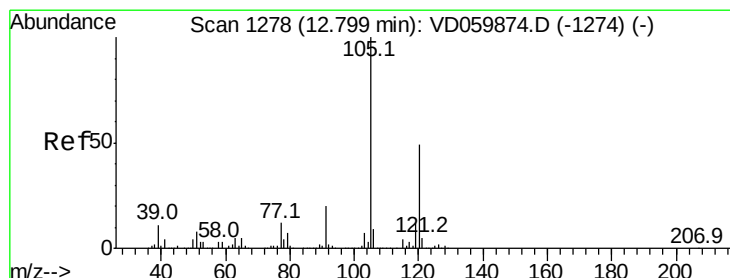
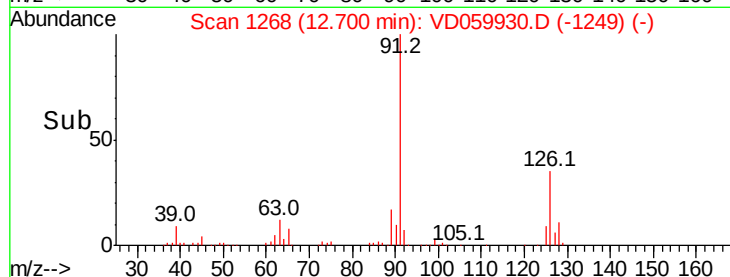
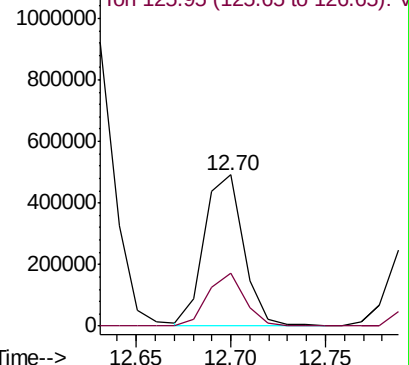
#79
2-Chlorotoluene
Concen: 19.485 ug/l
RT: 12.70 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion: 91 Resp: 706688
Ion Ratio Lower Upper
91 100
126 34.8 16.1 48.2

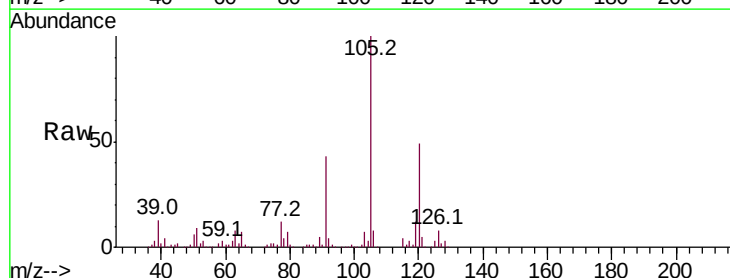


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.95 (125.65 to 126.65): V

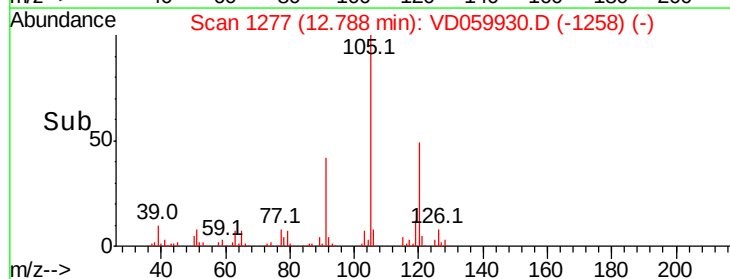
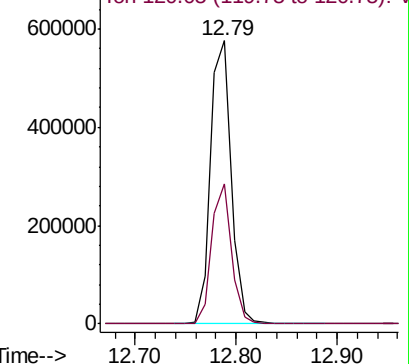


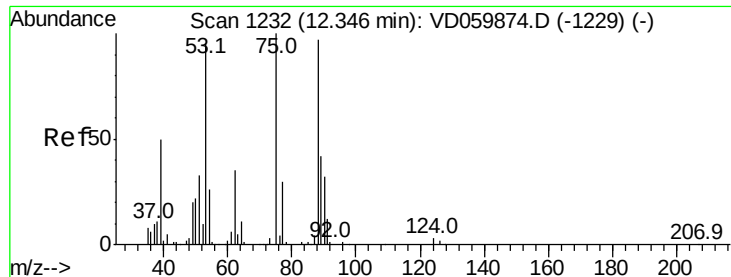
#80
1,3,5-Trimethylbenzene
Concen: 20.387 ug/l
RT: 12.79 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion:105 Resp: 820875
Ion Ratio Lower Upper
105 100
120 49.2 24.5 73.5



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: 18.111 ug/l

RT: 12.34 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

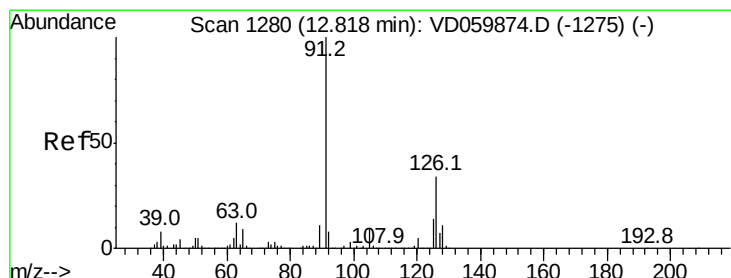
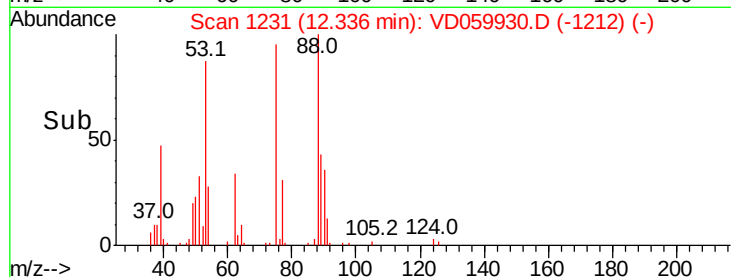
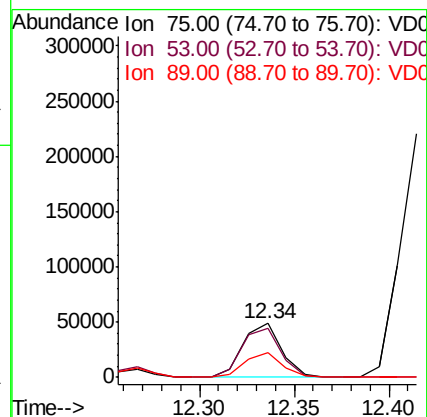
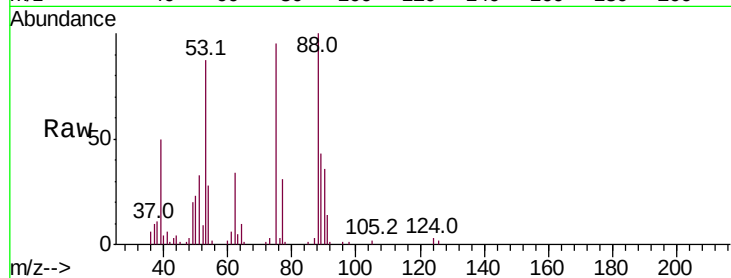
Tot Ion: 75 Resp: 69469

Ion Ratio Lower Upper

75 100

53 91.9 75.8 113.6

89 45.6 33.6 50.4



#82

4-Chlorotoluene

Concen: 20.360 ug/l

RT: 12.80 min Scan# 1278

Delta R.T. -0.02 min

Lab File: VD059930.D

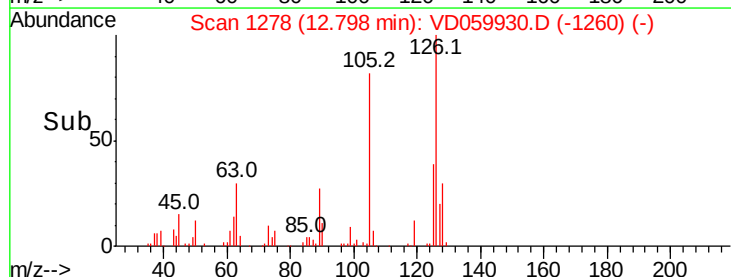
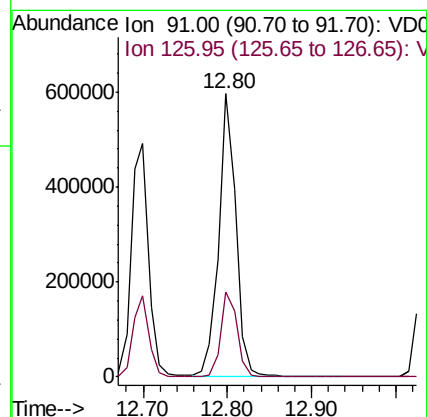
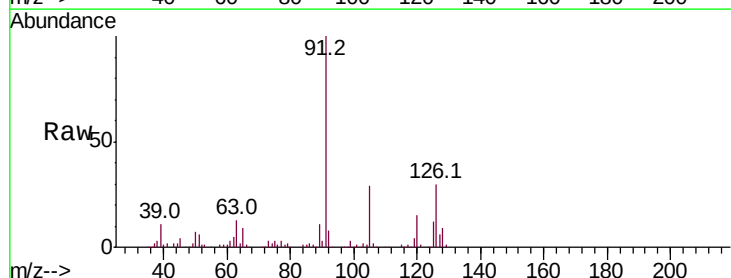
Acq: 31 Aug 2018 12:34

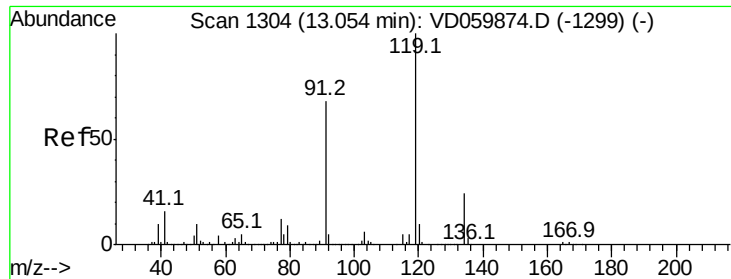
Tgt Ion: 91 Resp: 842226

Ion Ratio Lower Upper

91 100

126 30.0 17.1 51.2

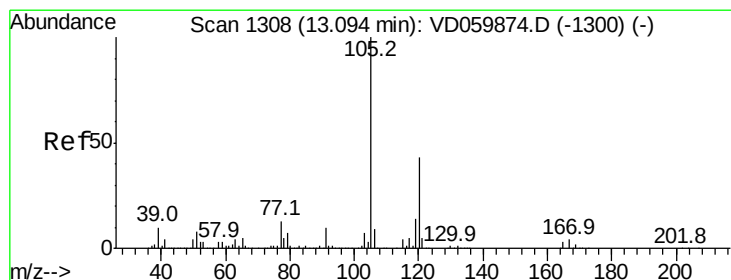
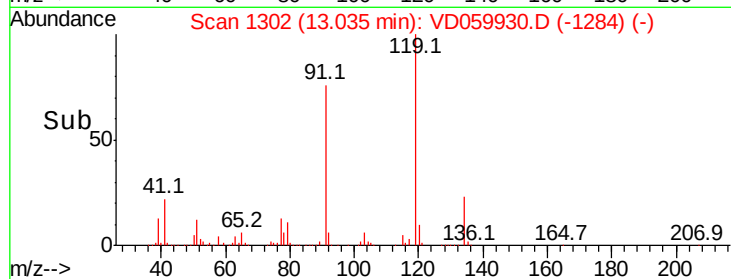
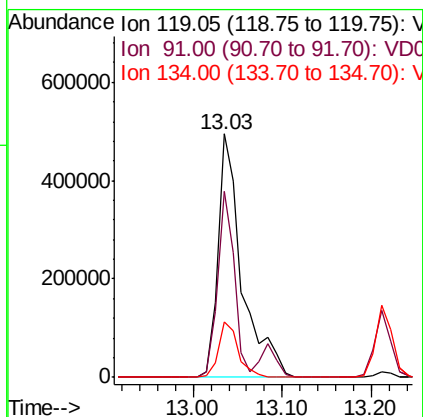
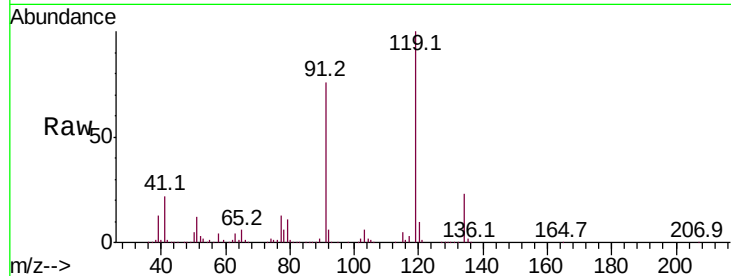




#83
 tert-Butylbenzene
 Concen: 20.236 ug/l
 RT: 13.03 min Scan# 1302
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

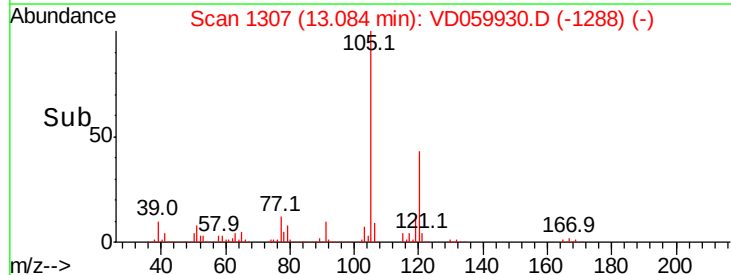
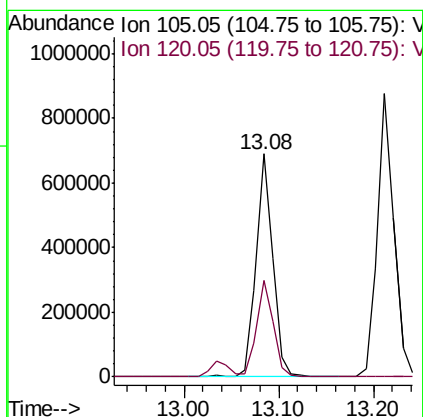
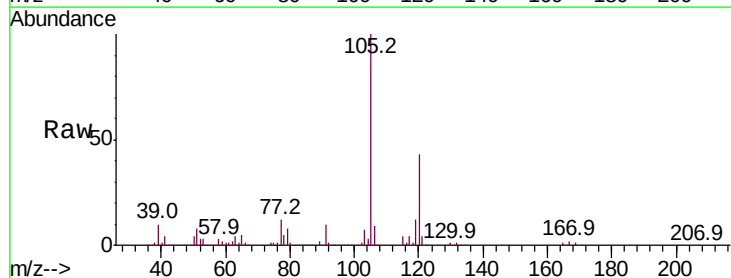
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

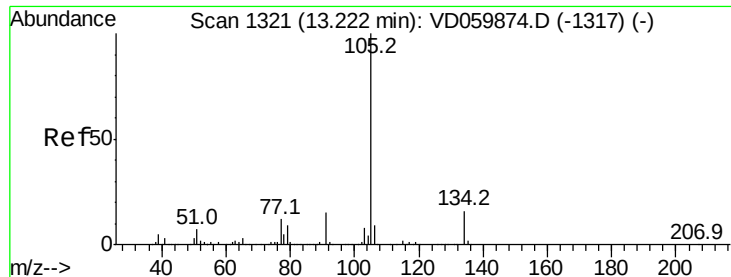
Tot Ion:119 Resp: 928178
 Ion Ratio Lower Upper
 119 100
 91 76.5 34.3 102.9
 134 22.6 11.9 35.9



#84
 1,2,4-Trimethylbenzene
 Concen: 20.140 ug/l
 RT: 13.08 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion:105 Resp: 845264
 Ion Ratio Lower Upper
 105 100
 120 43.5 21.8 65.3





#85

sec-Butylbenzene

Concen: 20.123 ug/l

RT: 13.21 min Scan# 1320

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

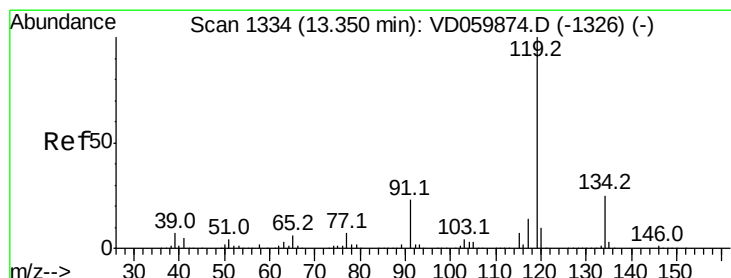
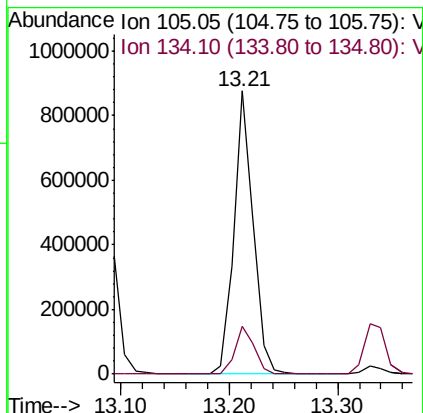
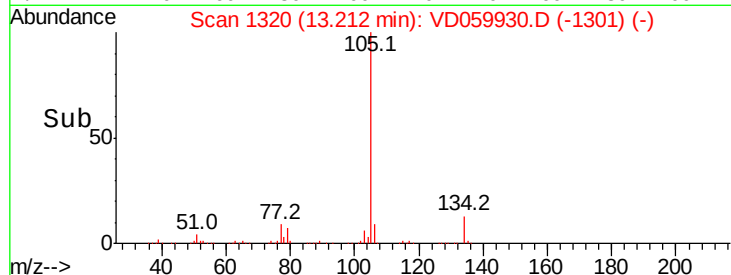
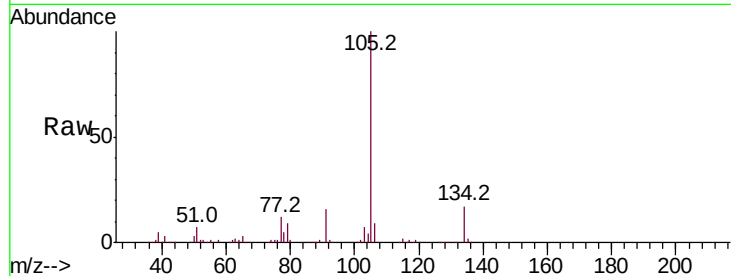
VD0831SBS01

Tot Ion:105 Resp: 1085434

Ion Ratio Lower Upper

105 100

134 16.8 8.2 24.4



#86

p-Isopropyltoluene

Concen: 20.246 ug/l

RT: 13.33 min Scan# 1332

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

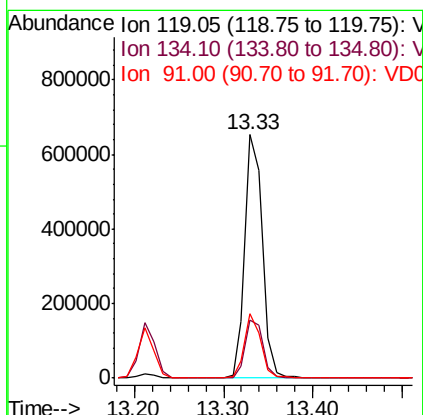
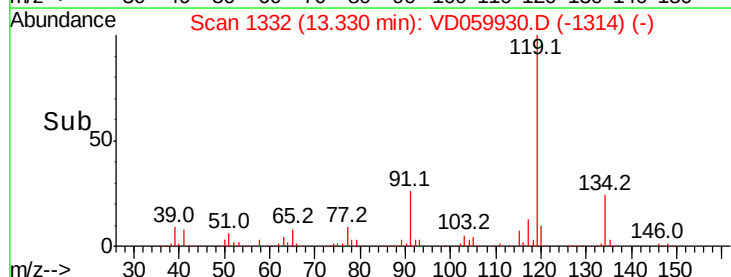
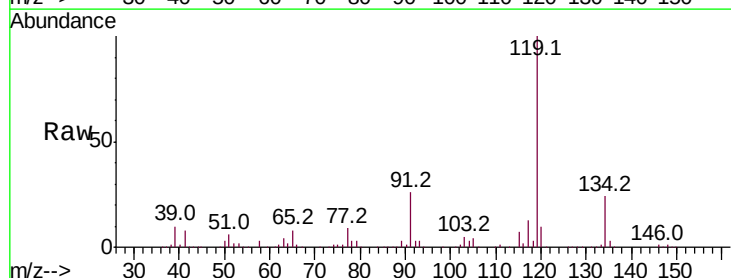
Tgt Ion:119 Resp: 888179

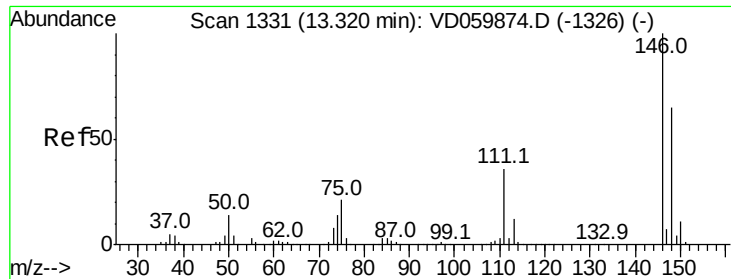
Ion Ratio Lower Upper

119 100

134 23.9 12.7 38.1

91 26.4 11.7 35.0

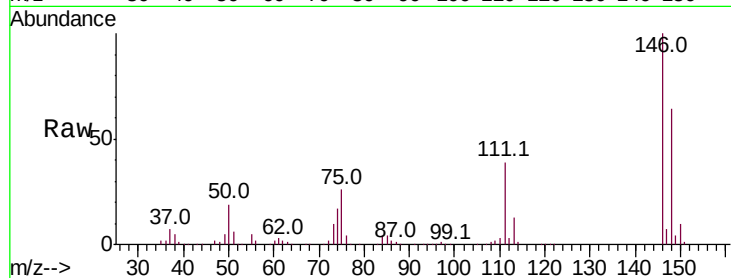




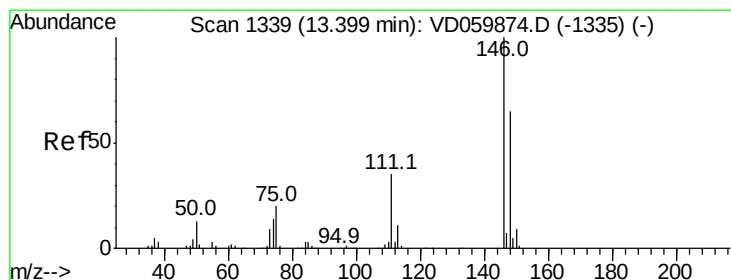
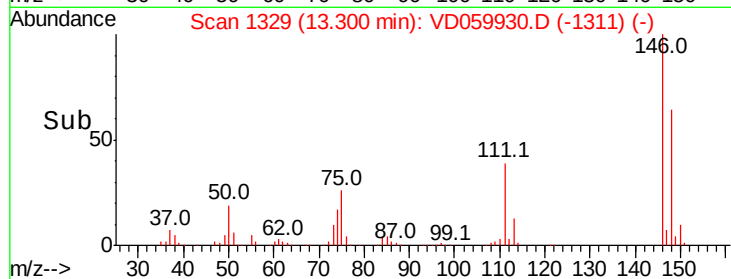
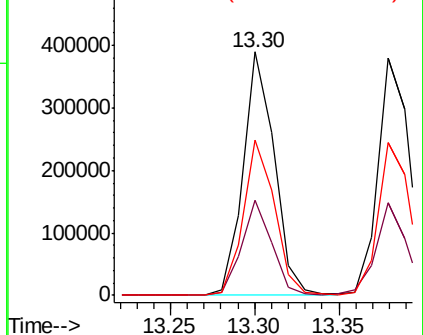
#87
 1,3-Dichlorobenzene
 Concen: 19.988 ug/l
 RT: 13.30 min Scan# 1329
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	17.9	53.7
148	63.7	32.4	97.0

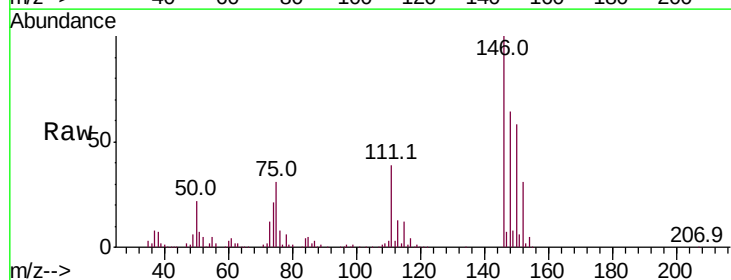


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

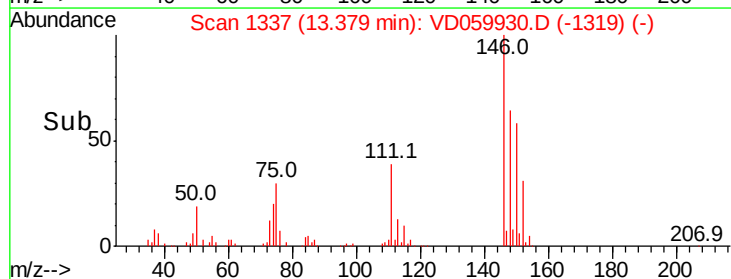
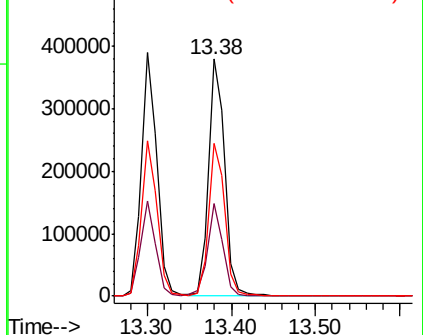


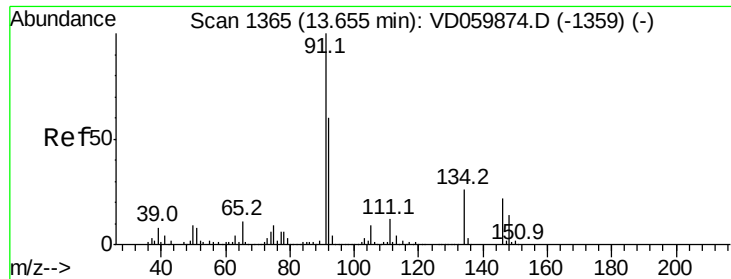
#88
 1,4-Dichlorobenzene
 Concen: 20.013 ug/l
 RT: 13.38 min Scan# 1337
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	17.5	52.6
148	64.3	32.5	97.5



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





#89

n-Butylbenzene

Concen: 19.104 ug/l

RT: 13.63 min Scan# 1363

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

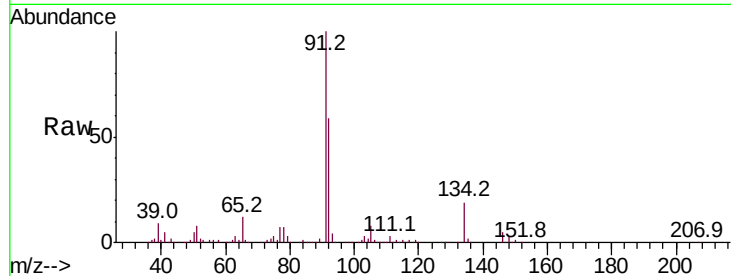
Tot Ion: 91 Resp: 911900

Ion Ratio Lower Upper

91 100

92 59.1 30.0 90.1

134 19.3 12.8 38.4

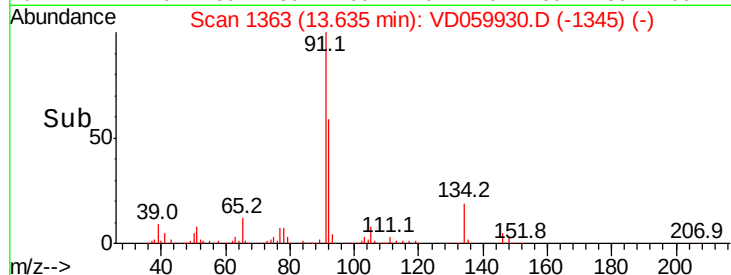


Abundance Ion 91.00 (90.70 to 91.70): V

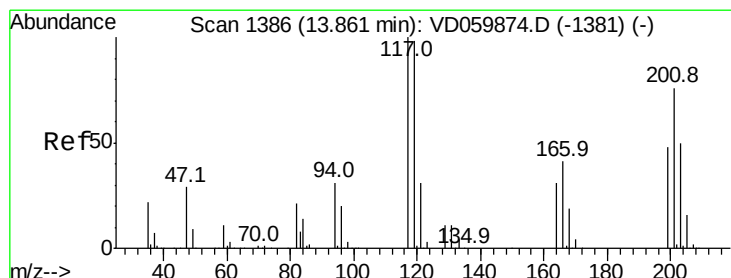
Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

Time-->



Time-->



#90

Hexachloroethane

Concen: 17.665 ug/l

RT: 13.85 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VD059930.D

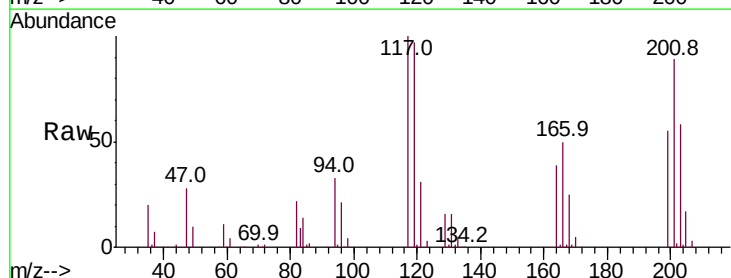
Acq: 31 Aug 2018 12:34

Tgt Ion: 117 Resp: 208076

Ion Ratio Lower Upper

117 100

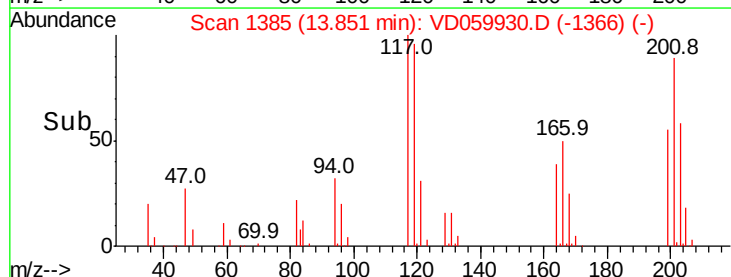
201 88.6 38.1 114.5



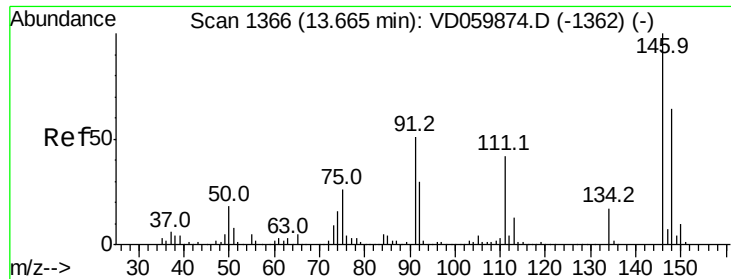
Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

Time-->



Time-->



#91

1,2-Dichlorobenzene

Concen: 21.359 ug/l

RT: 13.65 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

Instrument :

MSVOA_D

ClientSampleId :

VD0831SBS01

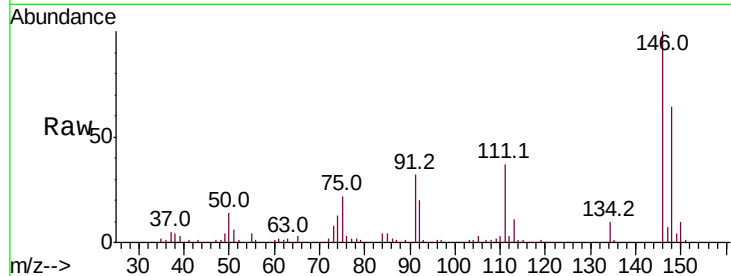
Tot Ion:146 Resp: 455292

Ion Ratio Lower Upper

146 100

111 37.0 21.1 63.1

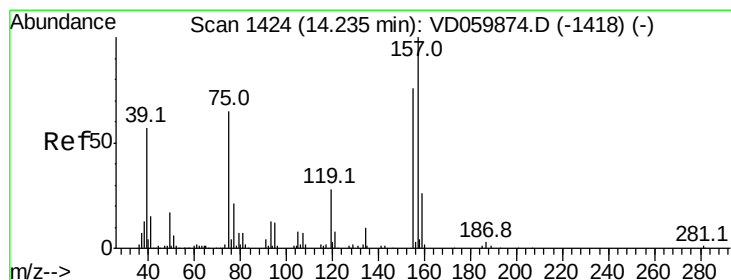
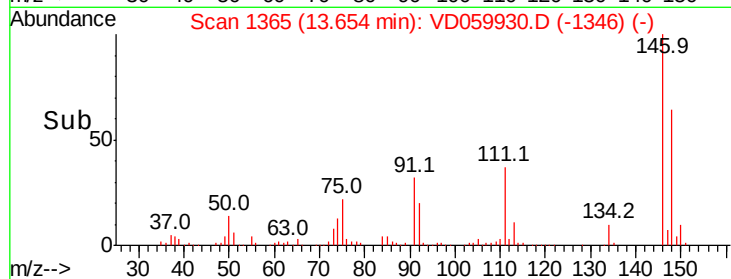
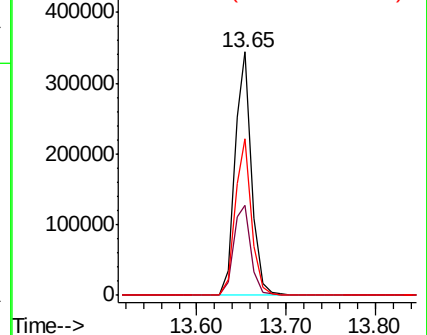
148 64.3 32.2 96.6



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: 19.021 ug/l

RT: 14.22 min Scan# 1422

Delta R.T. -0.02 min

Lab File: VD059930.D

Acq: 31 Aug 2018 12:34

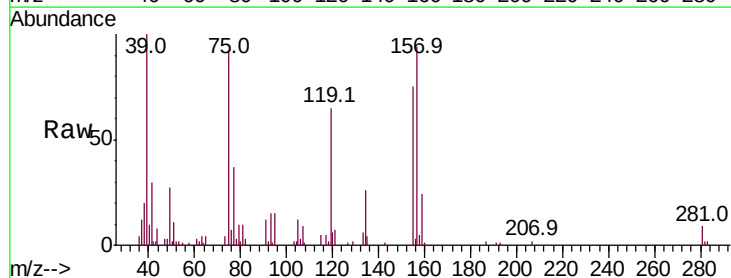
Tgt Ion: 75 Resp: 34260

Ion Ratio Lower Upper

75 100

155 81.7 58.2 174.6

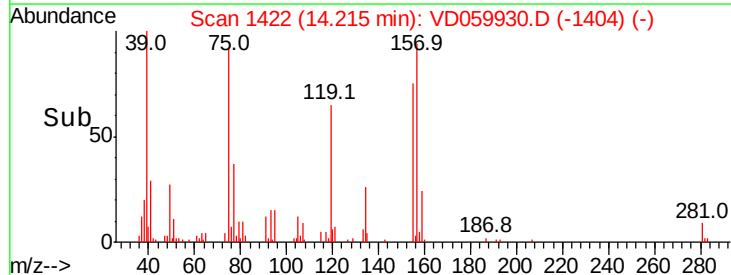
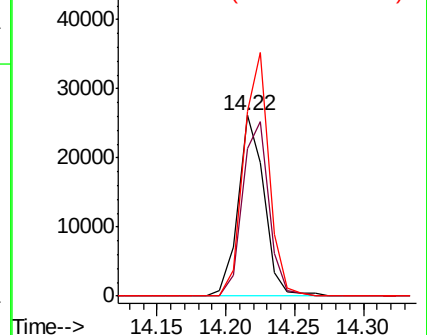
157 102.2 76.8 230.4

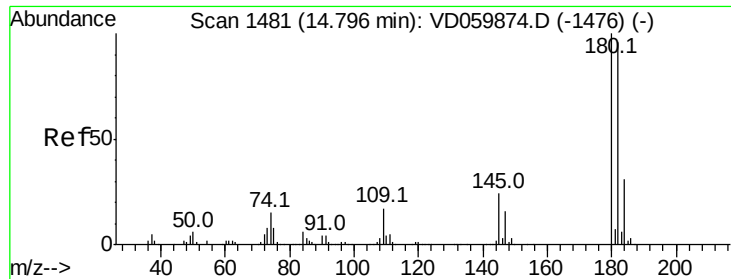


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

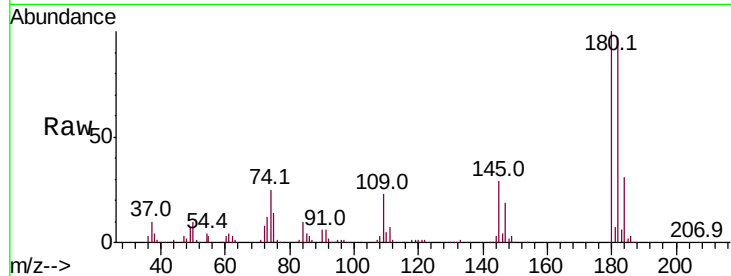




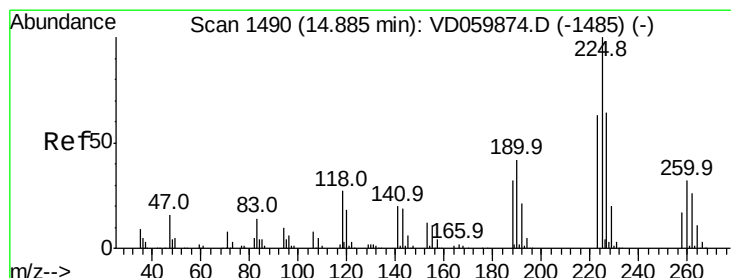
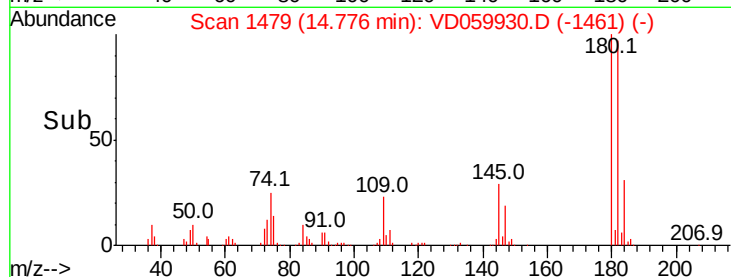
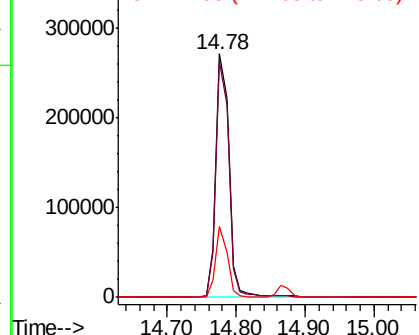
#93
 1,2,4-Trichlorobenzene
 Concen: 19.808 ug/l
 RT: 14.78 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0831SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.9	143.7
145	29.2	12.2	36.4

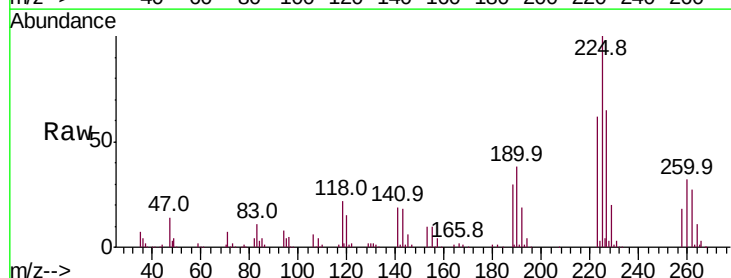


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

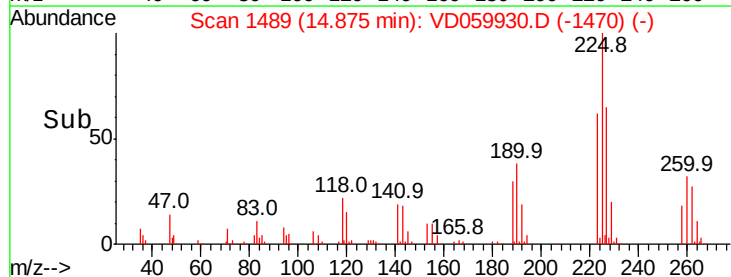
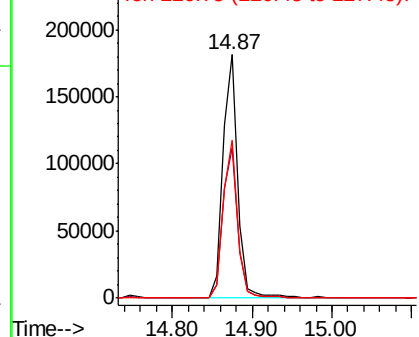


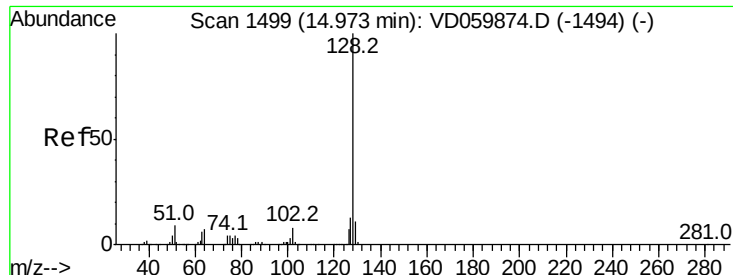
#94
 Hexachlorobutadiene
 Concen: 19.974 ug/l
 RT: 14.87 min Scan# 1489
 Delta R.T. -0.01 min
 Lab File: VD059930.D
 Acq: 31 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	31.6	94.8
227	65.1	32.0	96.0



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

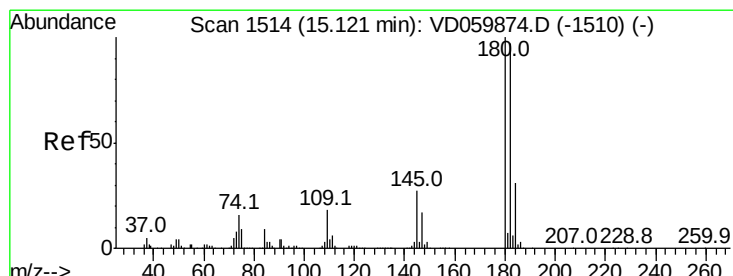
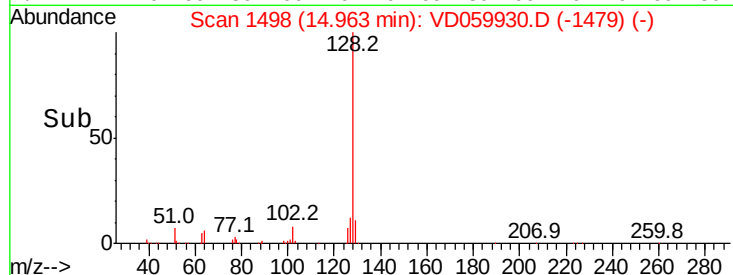
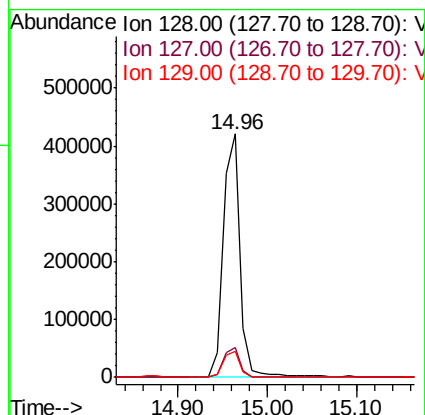
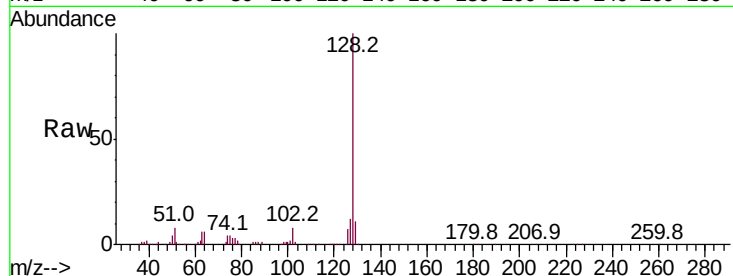




#95
Naphthalene
Concen: 20.040 ug/l
RT: 14.96 min Scan# 1498
Delta R.T. -0.01 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Instrument :
MSVOA_D
ClientSampleId :
VD0831SBS01

Tot Ion:128 Resp: 558930
Ion Ratio Lower Upper
128 100
127 12.1 10.0 15.0
129 10.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 19.617 ug/l
RT: 15.11 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VD059930.D
Acq: 31 Aug 2018 12:34

Tgt Ion:180 Resp: 306210
Ion Ratio Lower Upper
180 100
182 97.0 48.6 145.8
145 24.9 13.6 40.8

