

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040619\
 Data File : VD061638.D
 Acq On : 6 Apr 2019 12:35
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 08 07:06:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 07:00:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	762437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1167318	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	978530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	466454	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	106477	18.96	ug/l	0.00
Spiked Amount			Recovery	=	37.92%	
35) Dibromofluoromethane	6.93	113	165642	20.91	ug/l	0.00
Spiked Amount			Recovery	=	41.82%	
50) Toluene-d8	10.40	98	426047	22.04	ug/l	0.00
Spiked Amount			Recovery	=	44.08%	
62) 4-Bromofluorobenzene	13.55	95	164923	22.02	ug/l	0.00
Spiked Amount			Recovery	=	44.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	144673	18.084	ug/l	99
3) Chloromethane	1.76	50	121822	18.871	ug/l	93
4) Vinyl Chloride	1.86	62	121806	19.643	ug/l	97
5) Bromomethane	2.15	94	21227	15.276	ug/l	99
6) Chloroethane	2.26	64	28359	14.555	ug/l #	79
7) Trichlorofluoromethane	2.53	101	161864	17.735	ug/l	96
8) Diethyl Ether	2.87	74	48734	18.437	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.15	101	171767	18.905	ug/l	98
10) Methyl Iodide	3.31	142	222000	18.984	ug/l	99
11) Tert butyl alcohol	4.06	59	36833	94.925	ug/l	95
12) 1,1-Dichloroethene	3.13	96	142269	18.055	ug/l	93
13) Acrolein	3.04	56	45016	96.583	ug/l	94
14) Allyl chloride	3.63	41	202096	18.464	ug/l	99
15) Acrylonitrile	4.19	53	117545	91.935	ug/l	97
16) Acetone	3.22	43	135181	80.649	ug/l	99
17) Carbon Disulfide	3.37	76	477958	18.655	ug/l	100
18) Methyl Acetate	3.64	43	63862	19.602	ug/l	96
19) Methyl tert-butyl Ether	4.24	73	247027	18.295	ug/l	97
20) Methylene Chloride	3.83	84	161810	16.898	ug/l	98
21) trans-1,2-Dichloroethene	4.22	96	157734	18.562	ug/l	95
22) Diisopropyl ether	5.12	45	434991	19.377	ug/l	97
23) Vinyl Acetate	5.06	43	1141488	91.989	ug/l	100
24) 1,1-Dichloroethane	4.99	63	258047	18.652	ug/l	98
25) 2-Butanone	6.07	43	175606	89.646	ug/l	95
26) 2,2-Dichloropropane	6.02	77	219733	19.549	ug/l	98
27) cis-1,2-Dichloroethene	6.03	96	179903	19.866	ug/l	95
28) Bromochloromethane	6.43	49	88959	18.005	ug/l	100
29) Tetrahydrofuran	6.45	42	87039	92.780	ug/l	99
30) Chloroform	6.66	83	263493	18.301	ug/l	99
31) Cyclohexane	6.95	56	184279	17.371	ug/l	95
32) 1,1,1-Trichloroethane	6.87	97	239778	18.960	ug/l	99
36) 1,1-Dichloropropene	7.14	75	213196	20.427	ug/l	96
37) Ethyl Acetate	6.18	43	93298	21.534	ug/l	95
38) Carbon Tetrachloride	7.10	117	243232	20.175	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	224415	20.626	ug/l	98
40) Benzene	7.45	78	486516	19.266	ug/l	96
41) Methacrylonitrile	6.44	41	95716	19.602	ug/l	95
42) 1,2-Dichloroethane	7.58	62	166832	20.903	ug/l	97
43) Isopropyl Acetate	9.23	43	129577	20.811	ug/l #	95
44) Trichloroethene	8.53	130	194445	20.213	ug/l	98
45) 1,2-Dichloropropane	8.93	63	120603	19.497	ug/l	97
46) Dibromomethane	9.06	93	84993	19.385	ug/l	96
47) Bromodichloromethane	9.37	83	201385	20.548	ug/l	97
48) Methyl methacrylate	9.11	41	64143	18.632	ug/l	98
49) 1,4-Dioxane	9.08	88	14644	384.300	ug/l	96
51) 4-Methyl-2-Pentanone	10.29	43	401742	109.581	ug/l	100
52) Toluene	10.50	92	334818	21.404	ug/l	100
53) t-1,3-Dichloropropene	10.90	75	176077	20.343	ug/l	94
54) cis-1,3-Dichloropropene	10.04	75	224224	21.029	ug/l	97
55) 1,1,2-Trichloroethane	11.19	97	101956	19.768	ug/l	96
56) Ethyl methacrylate	11.03	69	113859	20.318	ug/l	99
57) 1,3-Dichloropropane	11.41	76	164976	21.186	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.85	63	257726	101.514	ug/l	98
59) 2-Hexanone	11.52	43	278690	100.727	ug/l	96
60) Dibromochloromethane	11.68	129	164349	20.019	ug/l	100
61) 1,2-Dibromoethane	11.80	107	121847	20.020	ug/l	94
64) Tetrachloroethene	11.26	164	135567	18.156	ug/l	95
65) Chlorobenzene	12.40	112	368746	19.114	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.51	131	163751	21.345	ug/l	98
67) Ethyl Benzene	12.52	91	672411	21.881	ug/l	99
68) m/p-Xylenes	12.67	106	473798	41.741	ug/l	98
69) o-Xylene	13.05	106	215440	19.625	ug/l	89
70) Styrene	13.07	104	354705	18.869	ug/l	99
71) Bromoform	13.24	173	86264	18.843	ug/l #	95
73) Isopropylbenzene	13.40	105	638568	20.340	ug/l	97
74) N-amyl acetate	13.27	43	155035	18.272	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.70	83	112908	17.986	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	110641	17.676	ug/l	100
77) Bromobenzene	13.67	156	178097	19.363	ug/l	79
78) n-propylbenzene	13.77	91	721938	19.549	ug/l	100
79) 2-Chlorotoluene	13.84	91	380186	18.004	ug/l	100
80) 1,3,5-Trimethylbenzene	13.93	105	493562	20.032	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.47	75	34869	17.999	ug/l	96
82) 4-Chlorotoluene	13.95	91	466420	20.215	ug/l	97
83) tert-Butylbenzene	14.19	119	597720	20.277	ug/l	92
84) 1,2,4-Trimethylbenzene	14.23	105	488380	19.289	ug/l	100
85) sec-Butylbenzene	14.37	105	629804	20.004	ug/l	96
86) p-Isopropyltoluene	14.49	119	584195	20.113	ug/l	100
87) 1,3-Dichlorobenzene	14.46	146	298446	19.053	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	304395	19.619	ug/l	98
89) n-Butylbenzene	14.79	91	505295	20.264	ug/l	98
90) Hexachloroethane	15.01	117	145479	19.404	ug/l	66
91) 1,2-Dichlorobenzene	14.80	146	257941	20.081	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.37	75	15308	19.490	ug/l	88

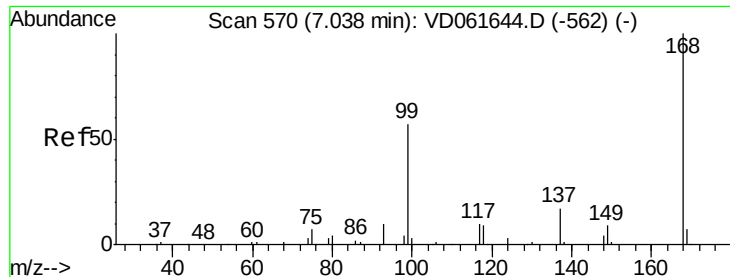
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	117626	18.101	ug/l	97
94) Hexachlorobutadiene	16.03	225	93309	18.661	ug/l	98
95) Naphthalene	16.12	128	185475	18.097	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	57742	17.946	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

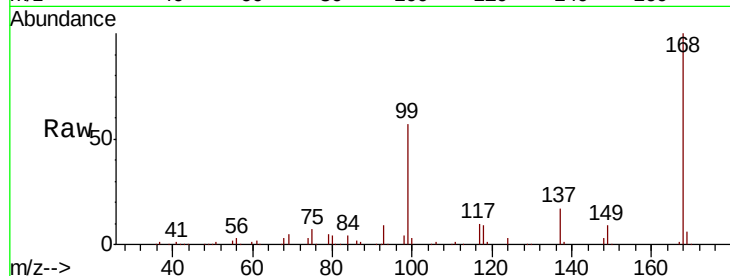
ClientSampleId :

Tot Ion:168 Resp: 762437

Ion Ratio Lower Upper

168 100

99 57.0 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

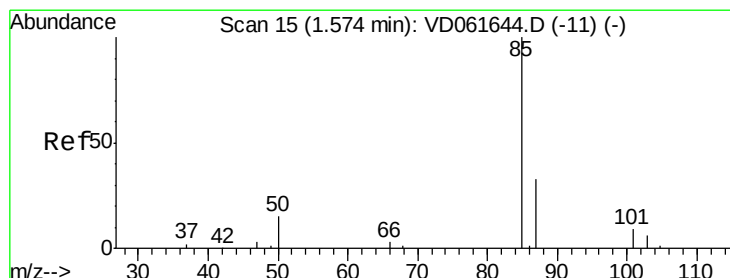
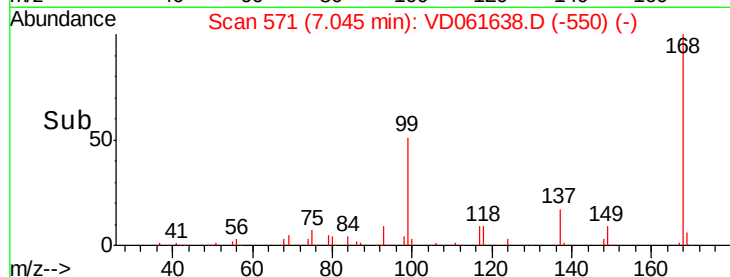
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 18.084 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD061638.D

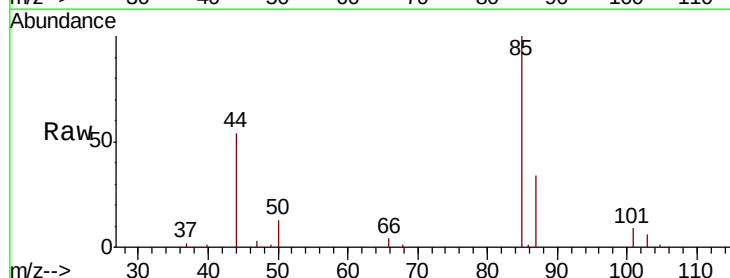
Acq: 6 Apr 2019 12:35

Tgt Ion: 85 Resp: 144673

Ion Ratio Lower Upper

85 100

87 33.8 16.6 49.8



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

60000

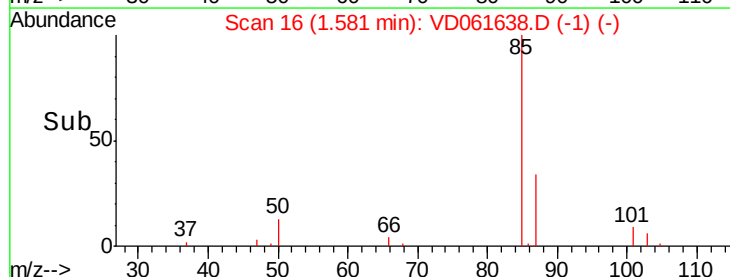
40000

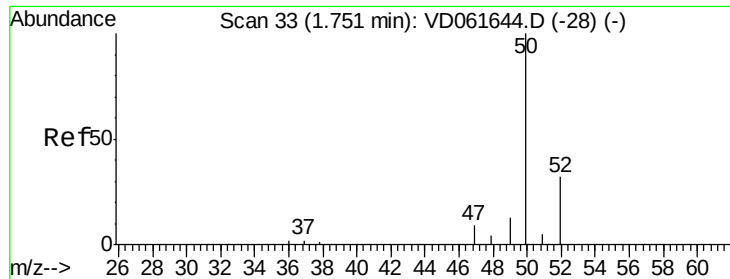
20000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 18.871 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

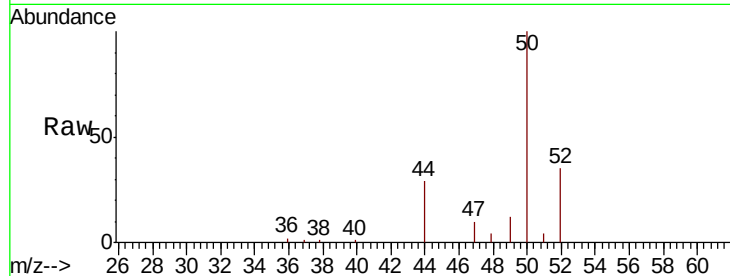
ClientSampled :

Tot Ion: 50 Resp: 121822

Ion Ratio Lower Upper

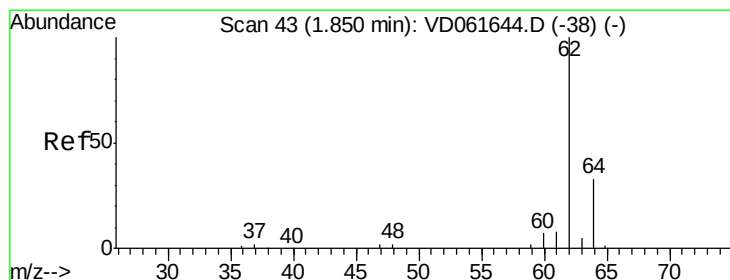
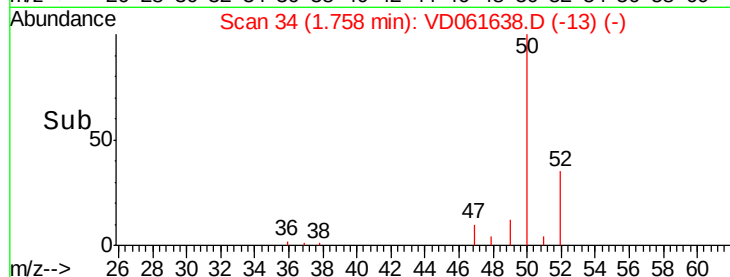
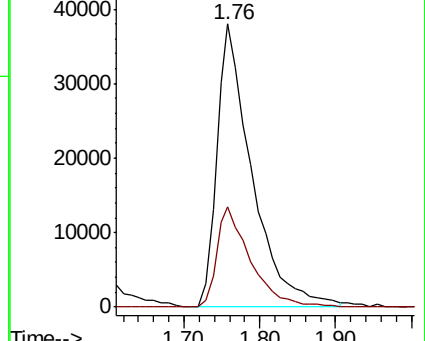
50 100

52 35.5 25.1 37.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.643 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.01 min

Lab File: VD061638.D

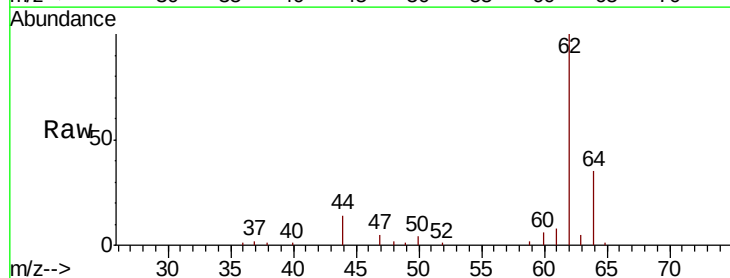
Acq: 6 Apr 2019 12:35

Tgt Ion: 62 Resp: 121806

Ion Ratio Lower Upper

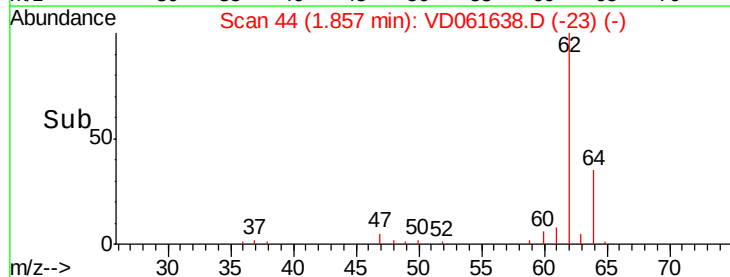
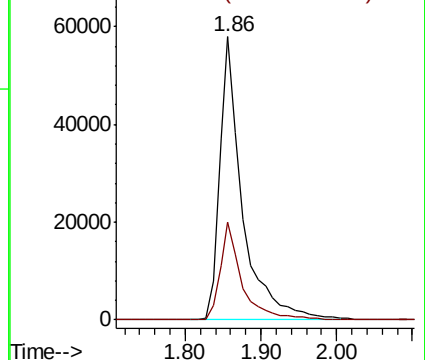
62 100

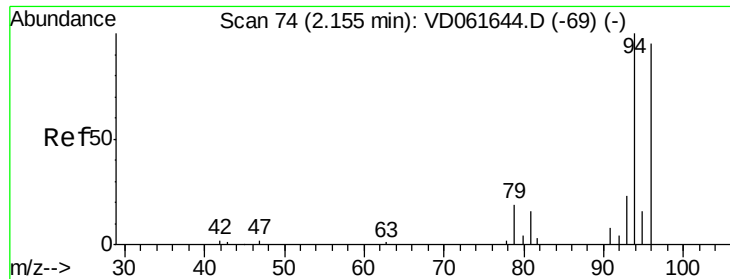
64 34.6 26.2 39.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

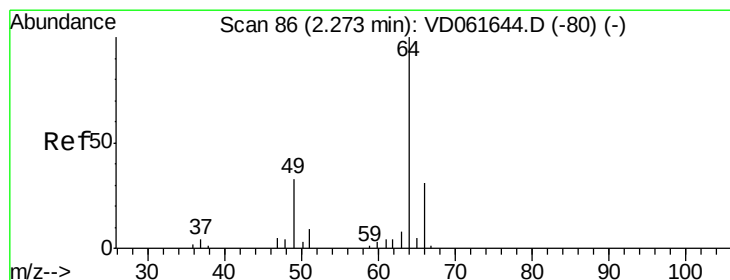
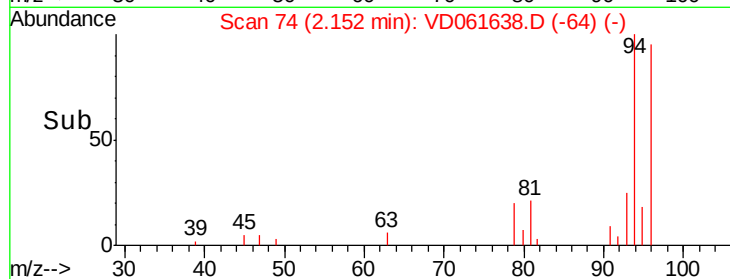
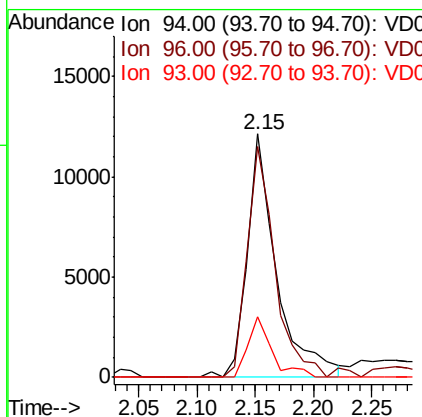
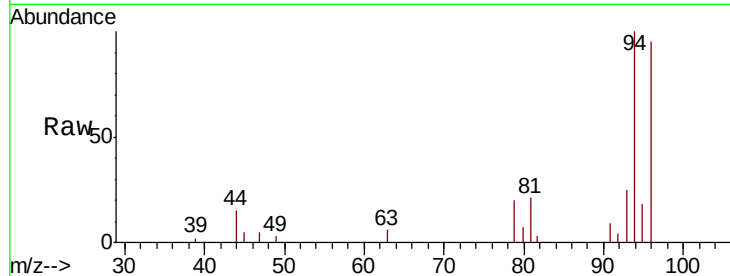




#5
Bromomethane
Concen: 15.276 ug/l
RT: 2.15 min Scan# 74
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

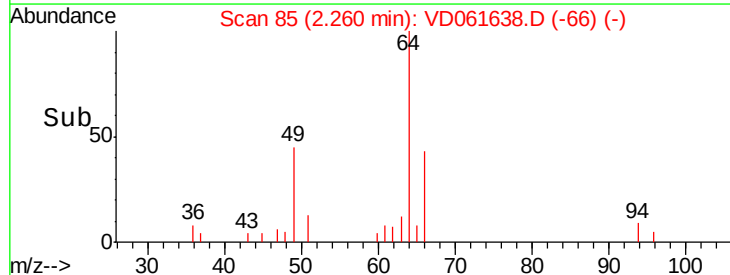
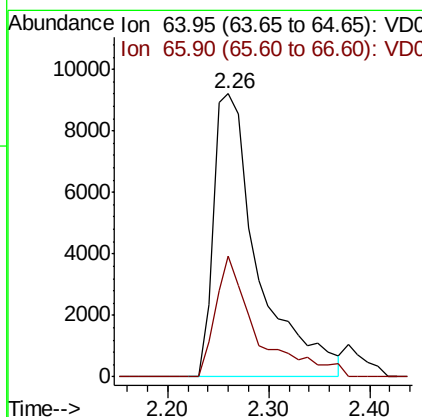
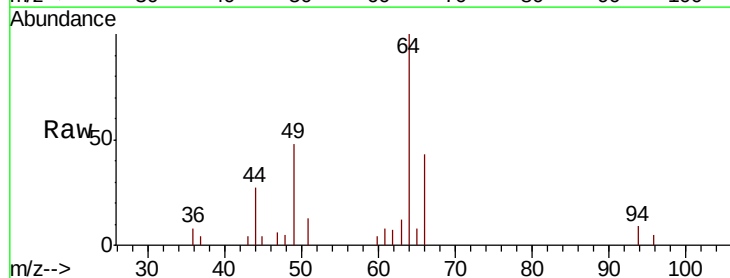
Instrument :
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ClientSampleId :

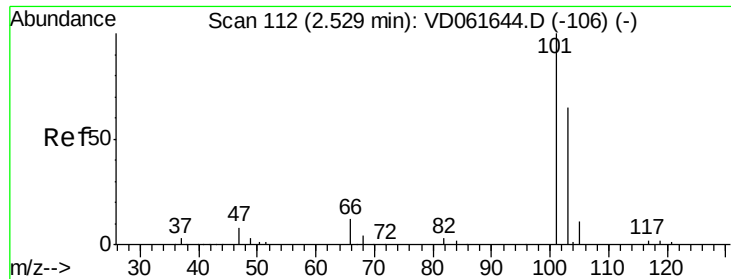
Tot Ion: 94 Resp: 21227
Ion Ratio Lower Upper
94 100
96 94.8 75.8 113.8
93 25.0 18.6 28.0



#6
Chloroethane
Concen: 14.555 ug/l
RT: 2.26 min Scan# 85
Delta R.T. -0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 64 Resp: 28359
Ion Ratio Lower Upper
64 100
66 42.8 24.9 37.3#



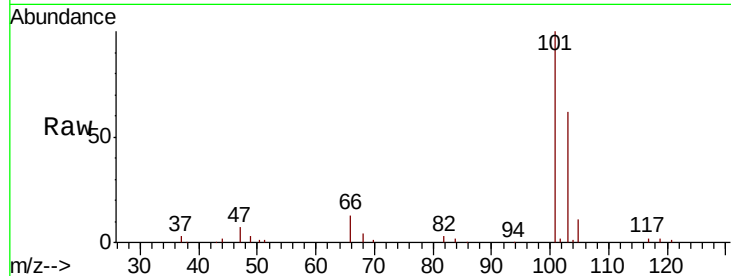


#7

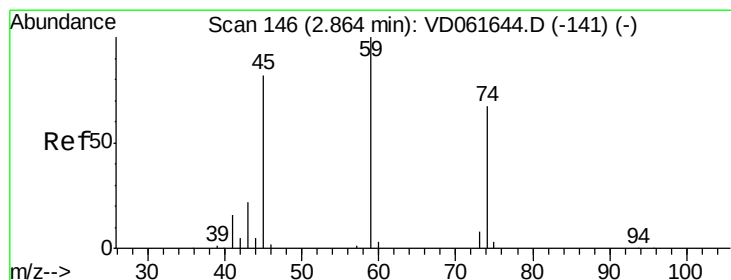
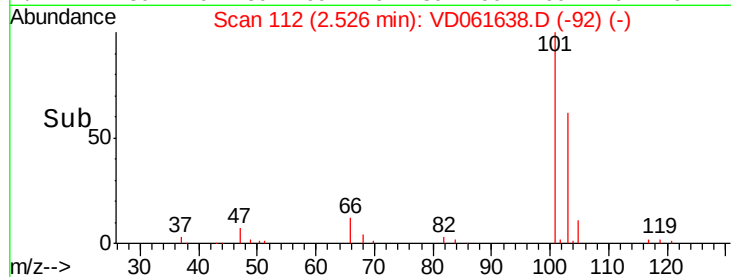
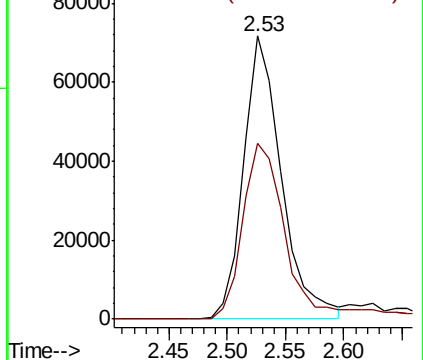
Trichlorofluoromethane
Concen: 17.735 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:101 Resp: 161864
Ion Ratio Lower Upper
101 100
103 62.1 52.0 78.0



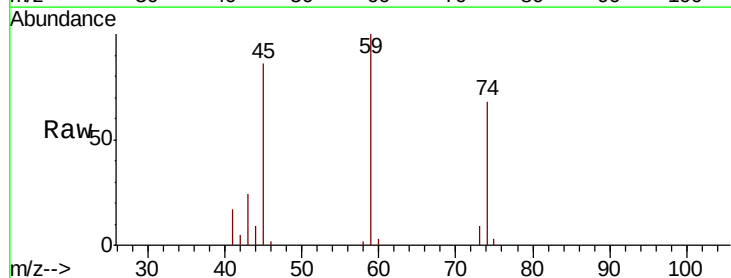
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



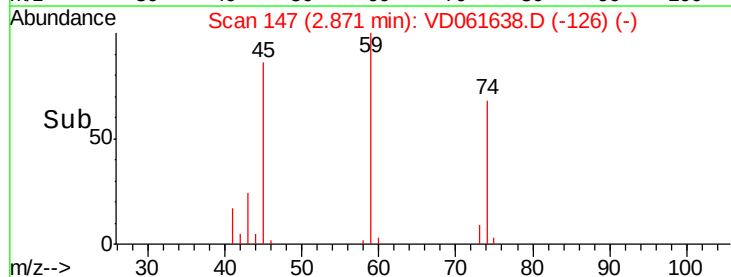
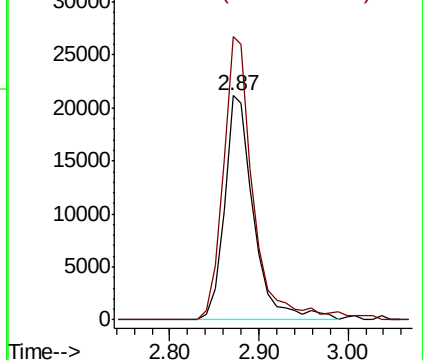
#8

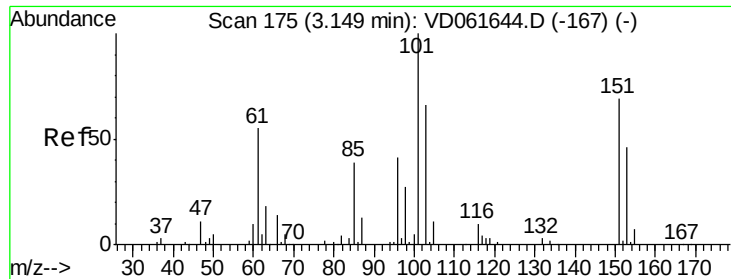
Diethyl Ether
Concen: 18.437 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 74 Resp: 48734
Ion Ratio Lower Upper
74 100
45 126.2 61.0 183.0



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.905 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampleId :

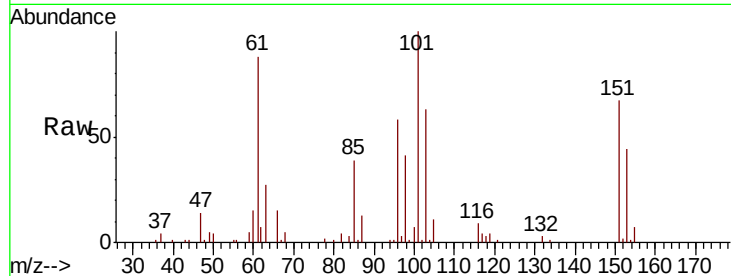
Tot Ion:101 Resp: 171767

Ion Ratio Lower Upper

101 100

85 38.8 31.0 46.6

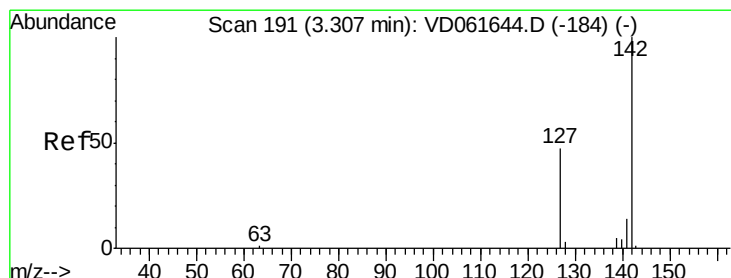
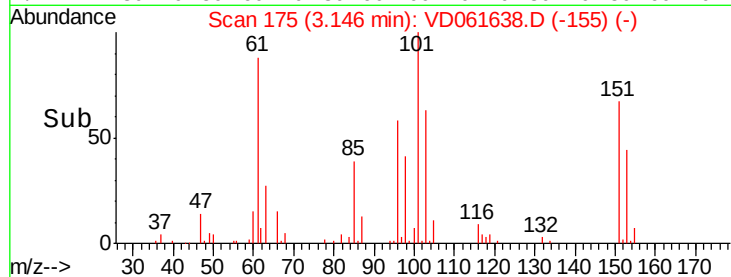
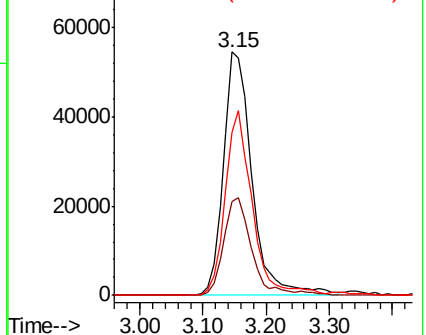
151 66.9 55.3 82.9



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: 18.984 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

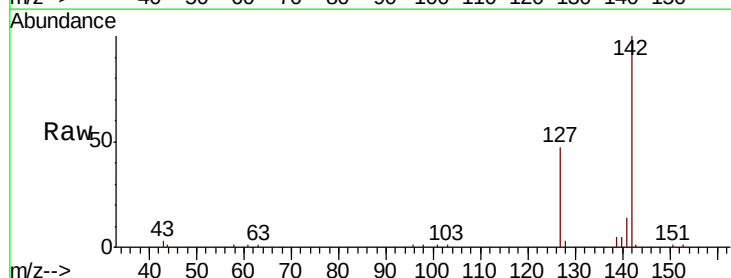
Tgt Ion:142 Resp: 222000

Ion Ratio Lower Upper

142 100

127 47.2 37.2 55.8

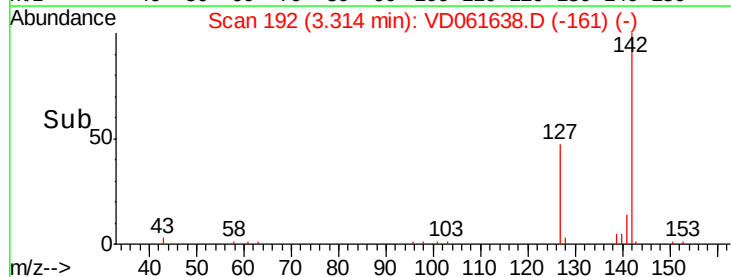
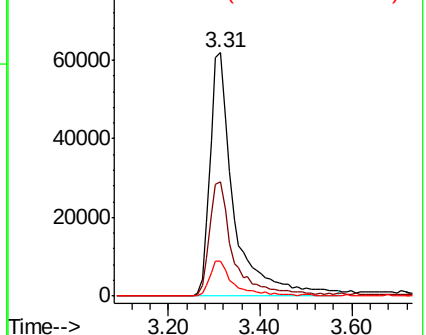
141 14.1 10.8 16.2

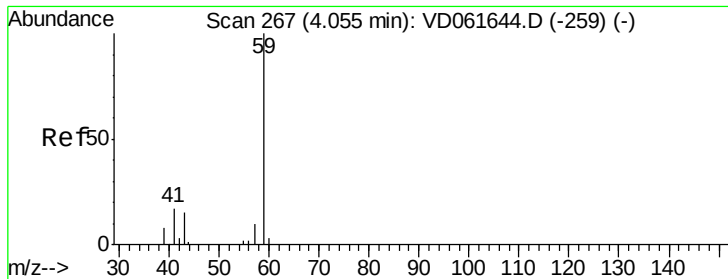


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

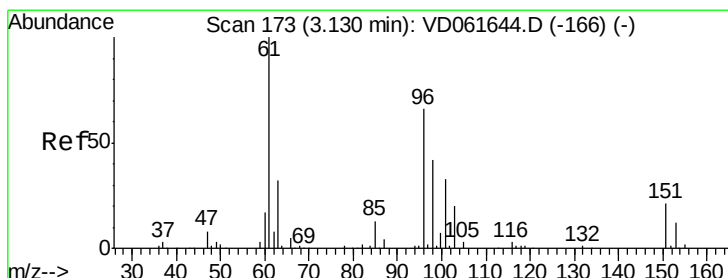
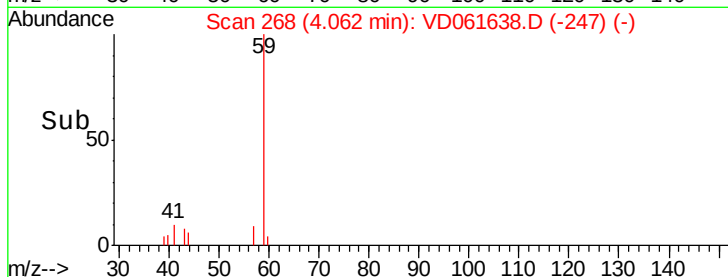
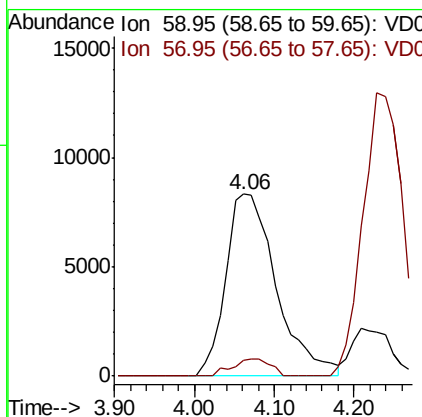
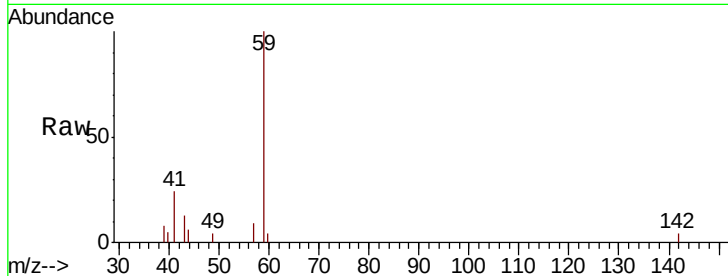




#11
Tert butyl alcohol
Concen: 94.925 ug/l
RT: 4.06 min Scan# 268
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

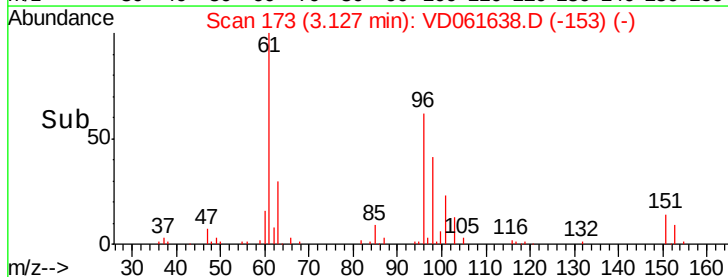
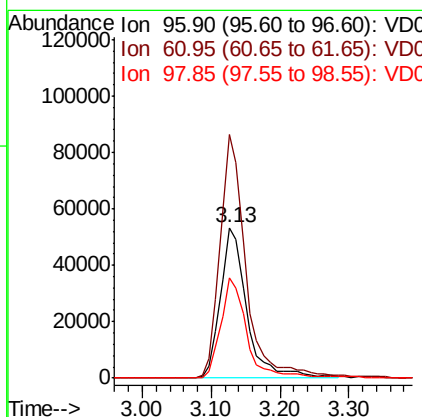
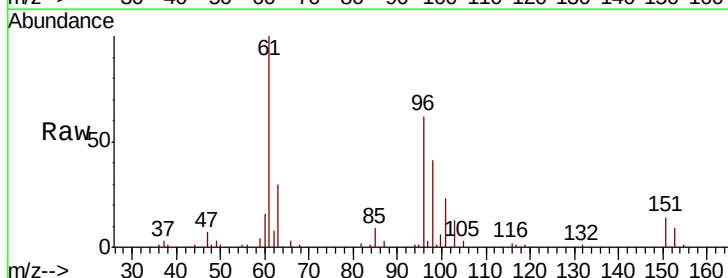
Instrument :
MSVOA_D
ClientSampled :

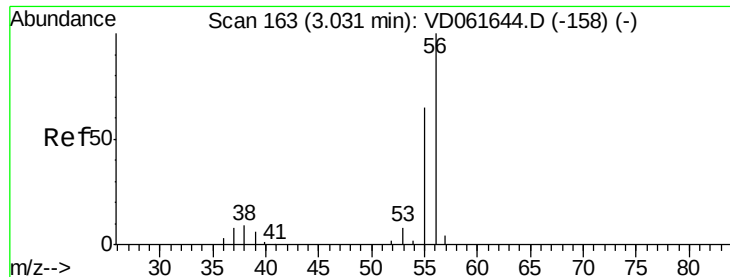
Tot Ion: 59 Resp: 36833
Ion Ratio Lower Upper
59 100
57 8.7 8.4 12.6



#12
1,1-Dichloroethene
Concen: 18.055 ug/l
RT: 3.13 min Scan# 173
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 96 Resp: 142269
Ion Ratio Lower Upper
96 100
61 162.1 121.3 181.9
98 66.3 50.6 76.0





#13

Acrolein

Concen: 96.583 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

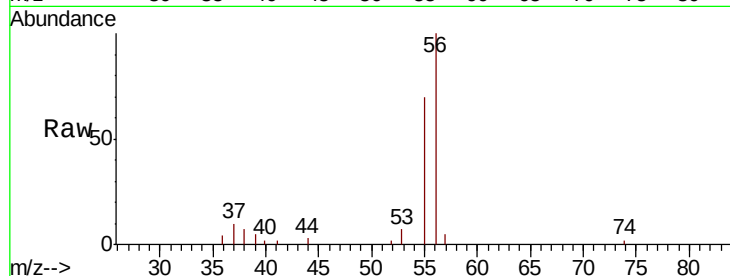
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 45016

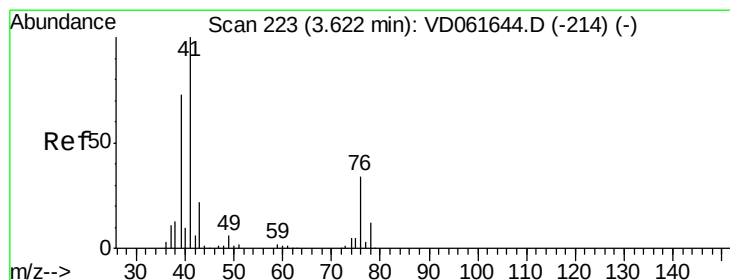
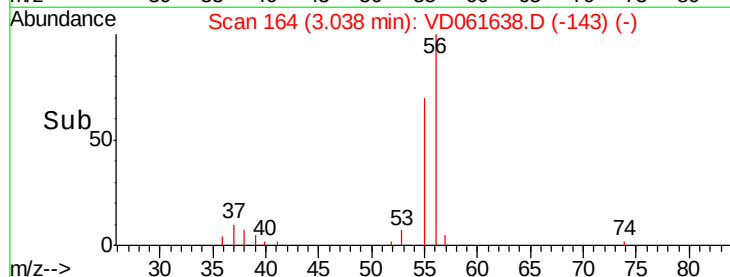
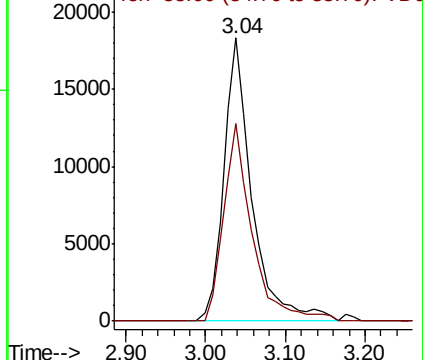
Ion Ratio Lower Upper

56 100

55 69.7 51.8 77.6



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 18.464 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

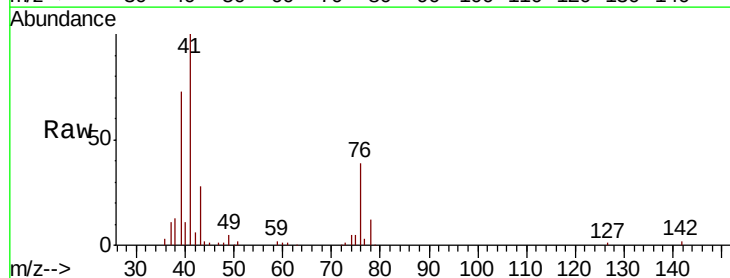
Tgt Ion: 41 Resp: 202096

Ion Ratio Lower Upper

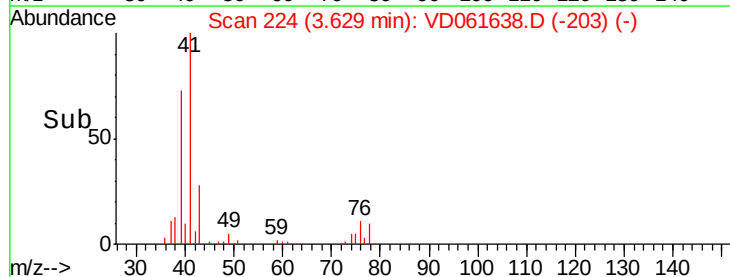
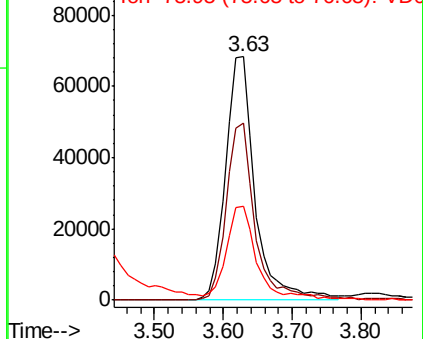
41 100

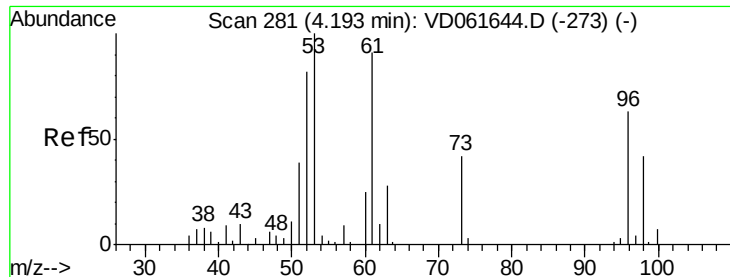
39 72.9 58.2 87.4

76 38.6 29.8 44.6



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





#15

Acrylonitrile

Concen: 91.935 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

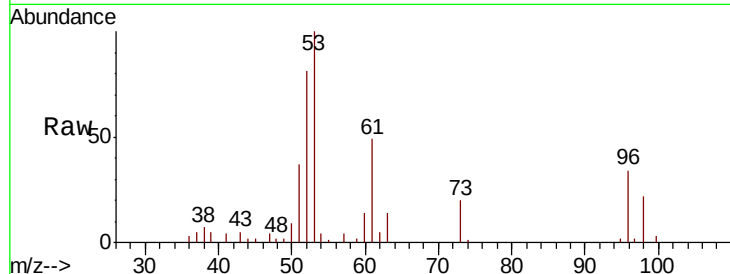
Tot Ion: 53 Resp: 117545

Ion Ratio Lower Upper

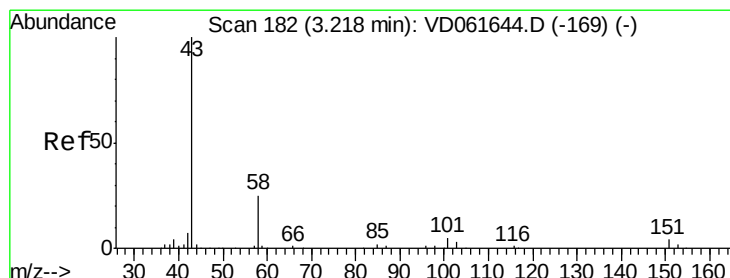
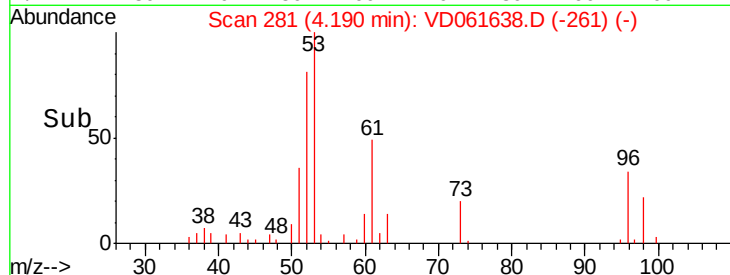
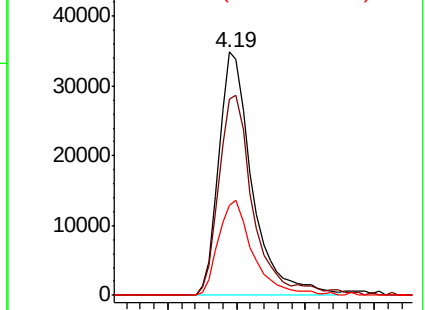
53 100

52 80.7 65.9 98.9

51 36.8 31.4 47.2



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: 80.649 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD061638.D

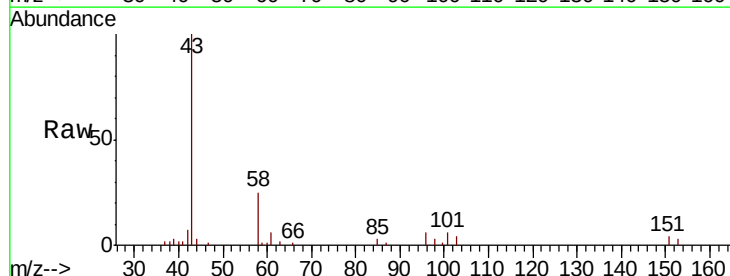
Acq: 6 Apr 2019 12:35

Tgt Ion: 43 Resp: 135181

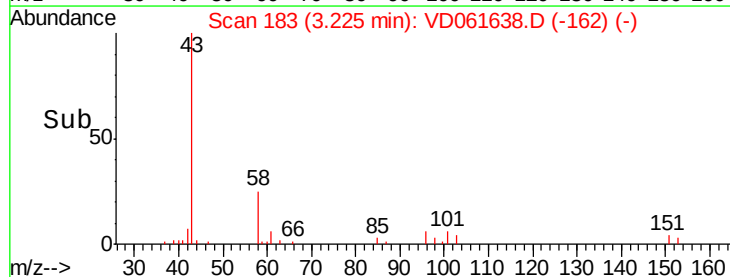
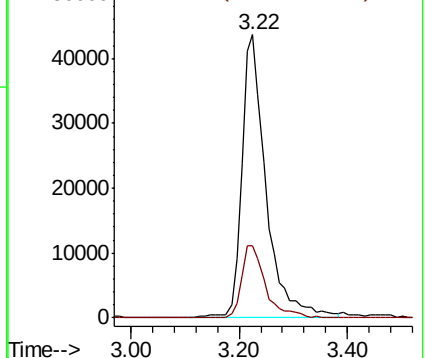
Ion Ratio Lower Upper

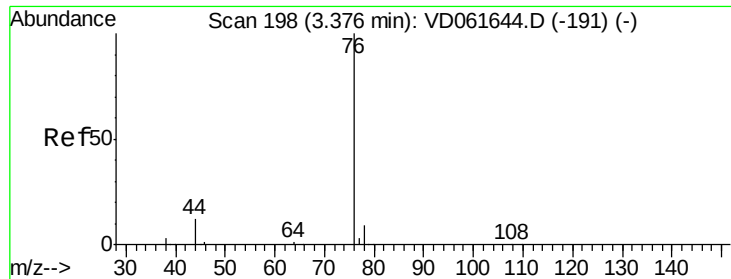
43 100

58 25.3 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

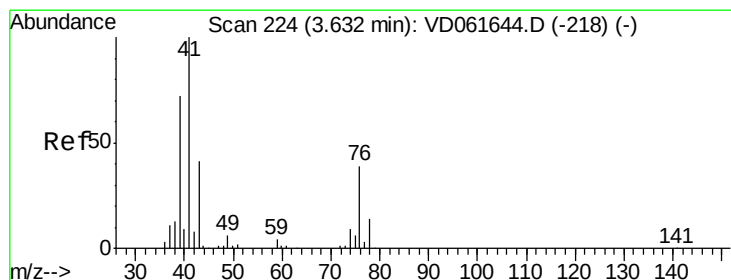
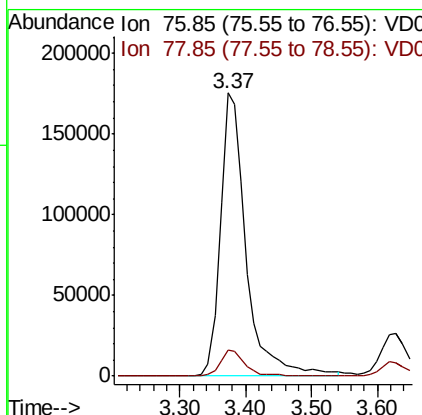
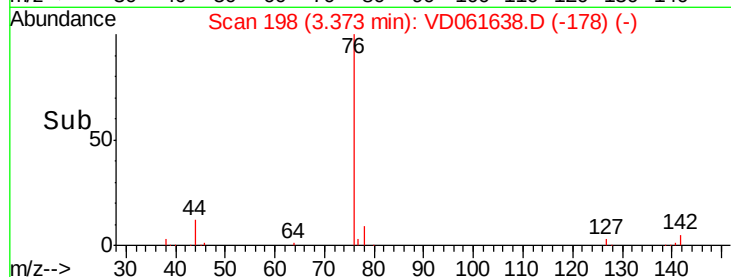
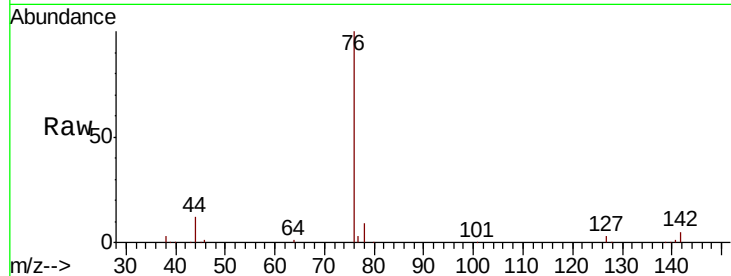




#17
Carbon Disulfide
Concen: 18.655 ug/l
RT: 3.37 min Scan# 198
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

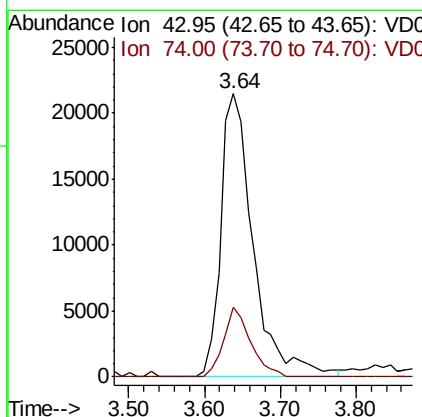
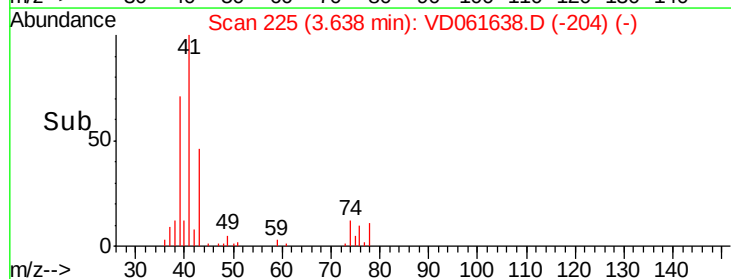
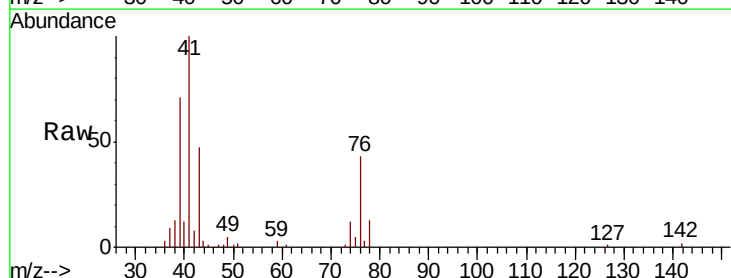
Instrument :
MSVOA_D
ClientSampled :

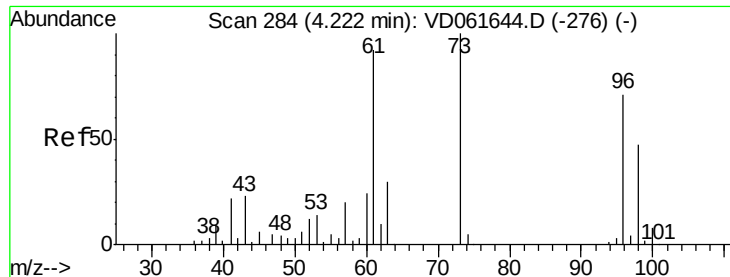
Tot Ion: 76 Resp: 477958
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.2



#18
Methyl Acetate
Concen: 19.602 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 43 Resp: 63862
Ion Ratio Lower Upper
43 100
74 24.7 18.2 27.2



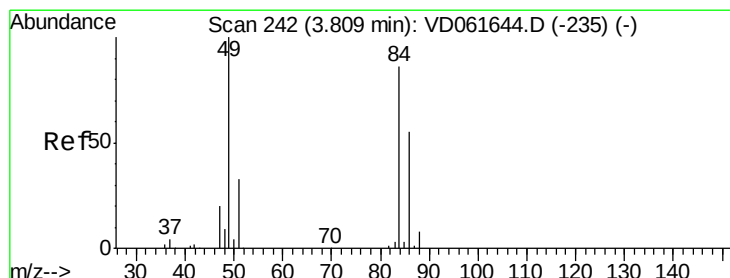
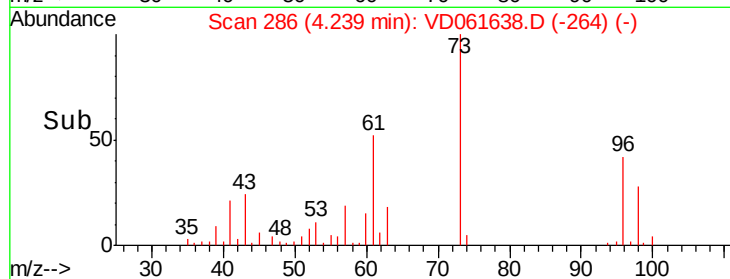
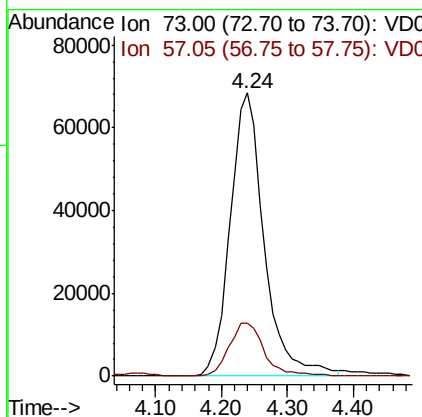
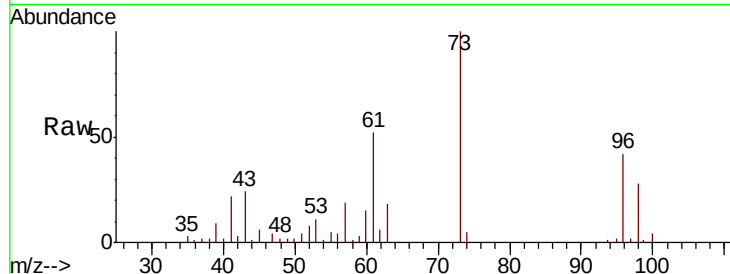


#19

Methvl tert-butyl Ether
 Concen: 18.295 ug/l
 RT: 4.24 min Scan# 286
 Delta R.T. 0.02 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampleId :

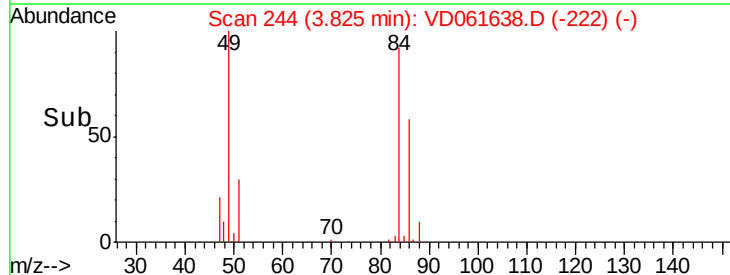
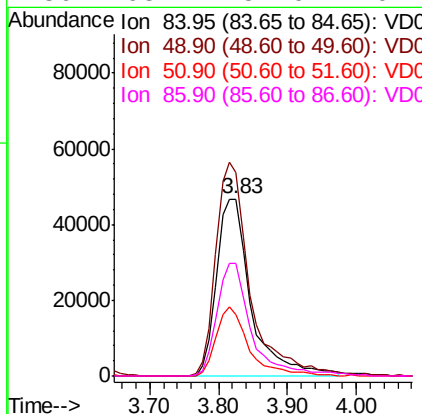
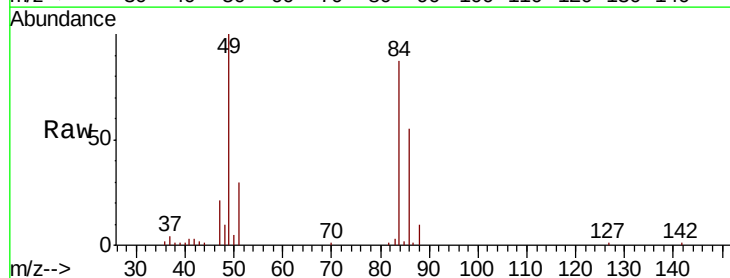
Tot Ion: 73 Resp: 247027
 Ion Ratio Lower Upper
 73 100
 57 18.7 16.0 24.0

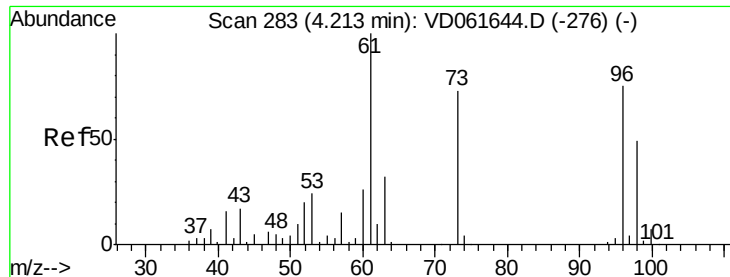


#20

Methylene Chloride
 Concen: 16.898 ug/l
 RT: 3.83 min Scan# 244
 Delta R.T. 0.02 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 84 Resp: 161810
 Ion Ratio Lower Upper
 84 100
 49 115.0 93.0 139.4
 51 34.8 30.4 45.6
 86 63.4 51.0 76.4





#21

trans-1,2-Dichloroethene

Concen: 18.562 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampleId :

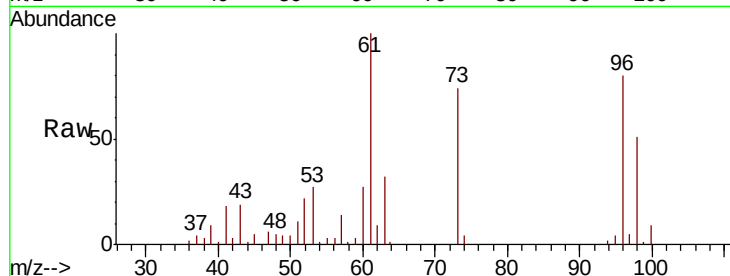
Tot Ion: 96 Resp: 157734

Ion Ratio Lower Upper

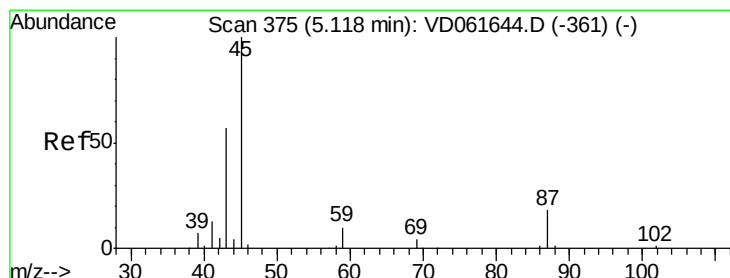
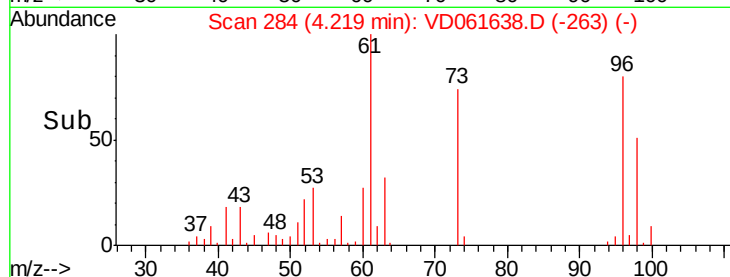
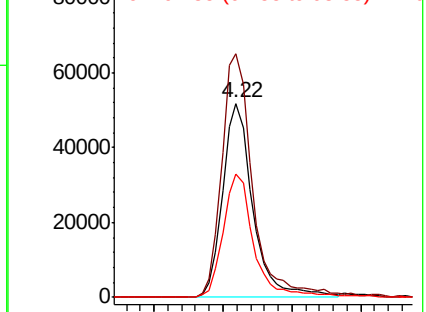
96 100

61 125.6 106.8 160.2

98 63.6 52.2 78.2



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



#22

Diisopropyl ether

Concen: 19.377 ug/l

RT: 5.12 min Scan# 375

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Tgt Ion: 45 Resp: 434991

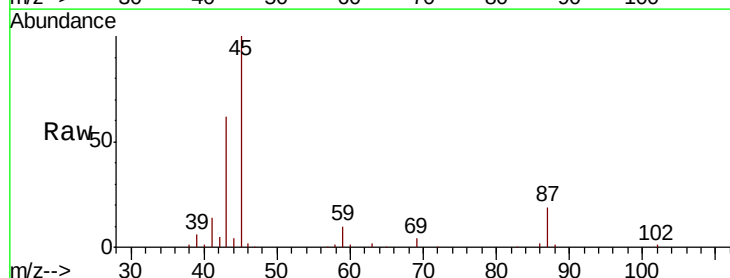
Ion Ratio Lower Upper

45 100

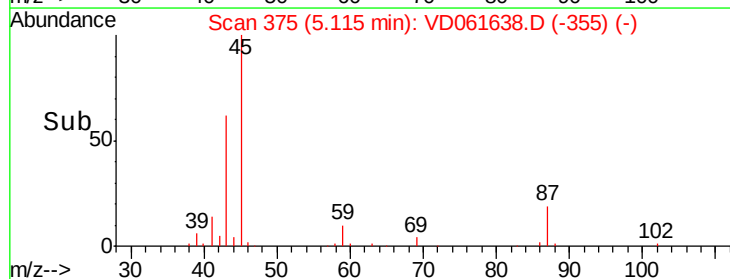
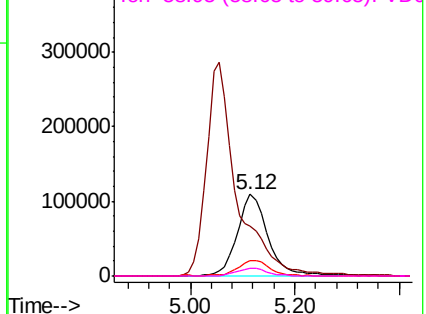
43 61.6 46.6 70.0

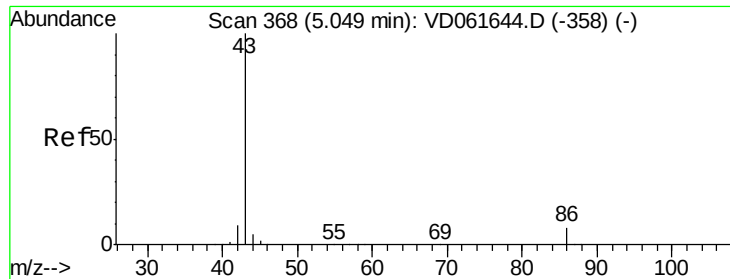
87 19.5 15.6 23.4

59 9.7 8.6 13.0



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: 91.989 ug/l

RT: 5.06 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

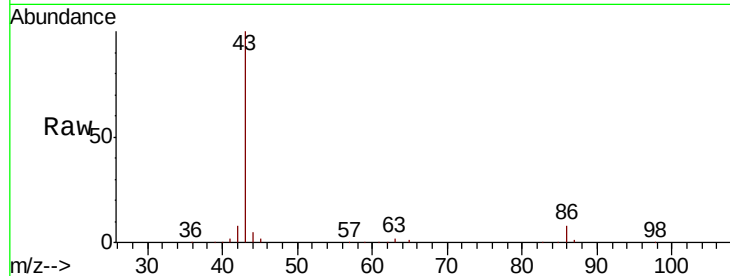
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 1141488

Ion Ratio Lower Upper

43 100

86 8.1 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VD061644.D (-358) (-)

Ion 86.00 (85.70 to 86.70): VD061644.D (-358) (-)

5.06

300000

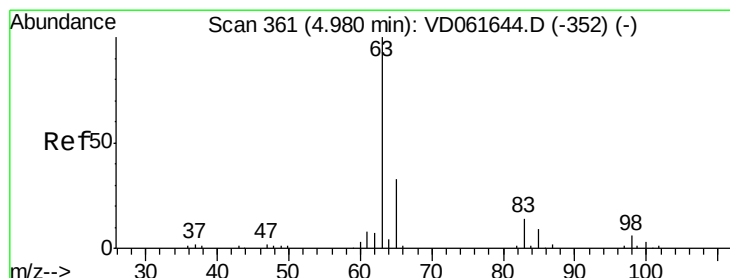
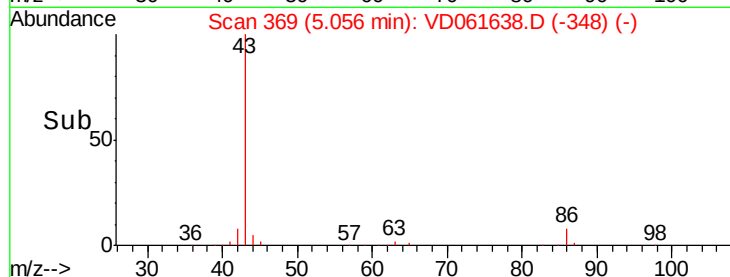
200000

100000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 18.652 ug/l

RT: 4.99 min Scan# 362

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

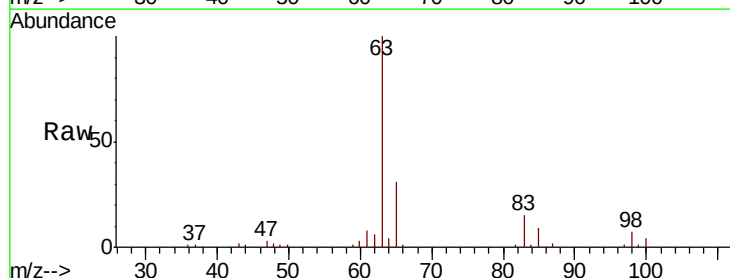
Tgt Ion: 63 Resp: 258047

Ion Ratio Lower Upper

63 100

98 6.5 2.9 8.6

100 3.9 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VD061644.D (-352) (-)

Ion 97.95 (97.65 to 98.65): VD061644.D (-352) (-)

Ion 99.95 (99.65 to 100.65): VD061644.D (-352) (-)

4.99

100000

80000

60000

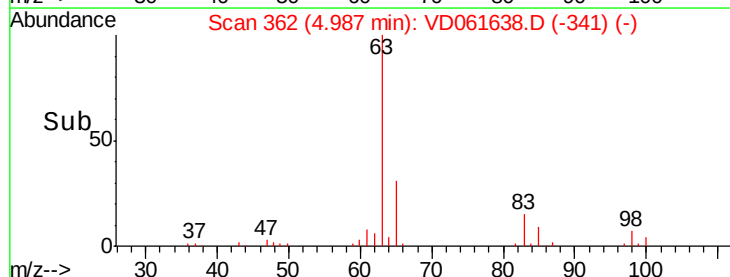
40000

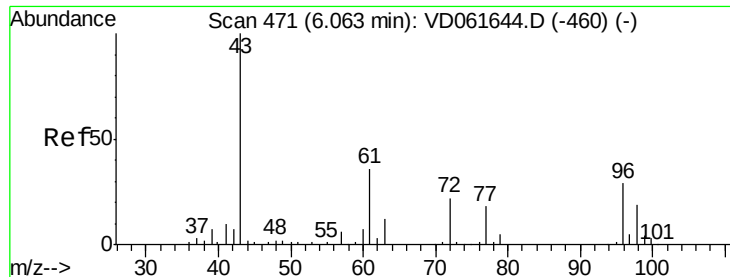
20000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 89.646 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

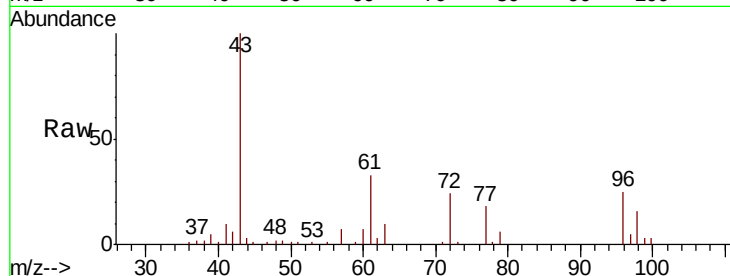
ClientSampleId :

Tot Ion: 43 Resp: 175606

Ion Ratio Lower Upper

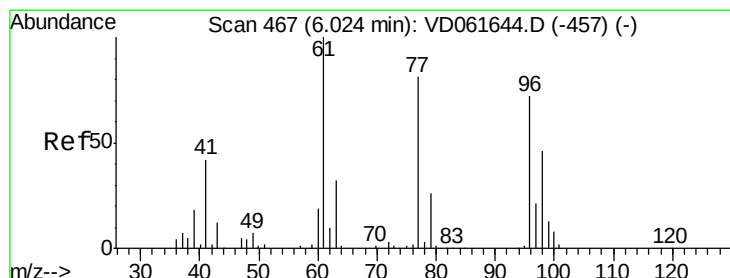
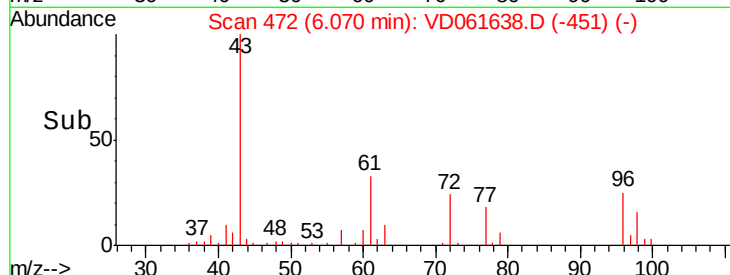
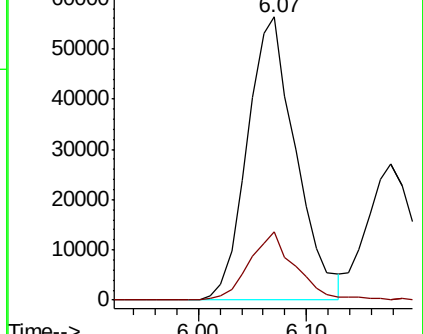
43 100

72 24.0 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VD061644.D (-460) (-)

Ion 72.00 (71.70 to 72.70): VD061644.D (-460) (-)



#26

2,2-Dichloropropane

Concen: 19.549 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.00 min

Lab File: VD061638.D

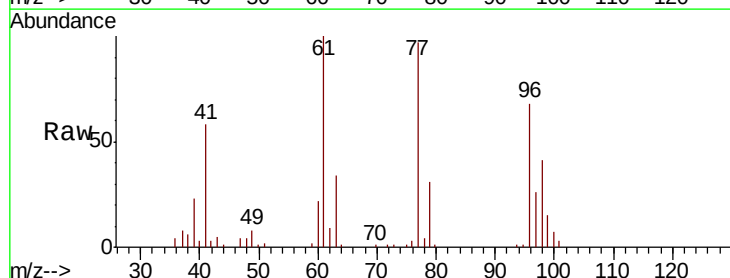
Acq: 6 Apr 2019 12:35

Tgt Ion: 77 Resp: 219733

Ion Ratio Lower Upper

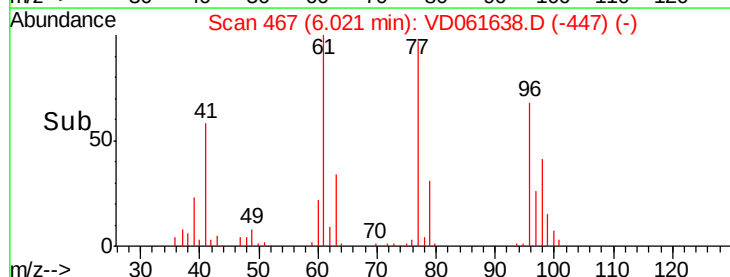
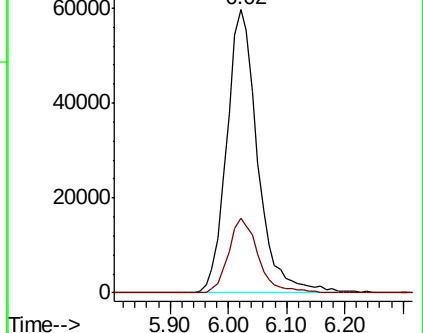
77 100

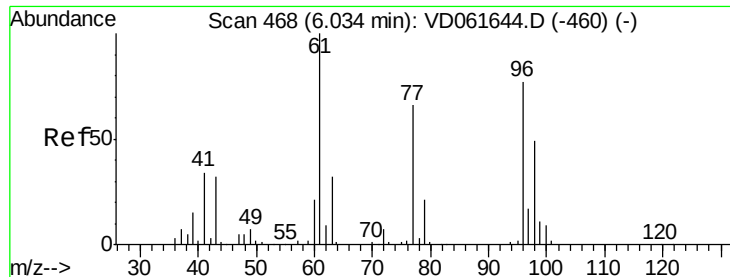
97 26.5 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VD061644.D (-457) (-)

Ion 96.85 (96.55 to 97.55): VD061644.D (-457) (-)



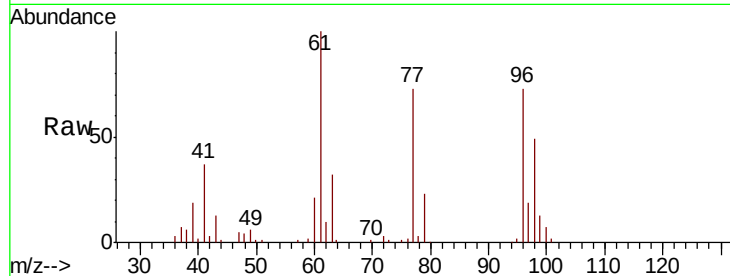


#27

cis-1,2-Dichloroethene
 Concen: 19.866 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	96	Resp	179903
Ion	Ratio	Lower	Upper
96	100		
61	136.5	0.0	259.8
98	66.9	0.0	127.6

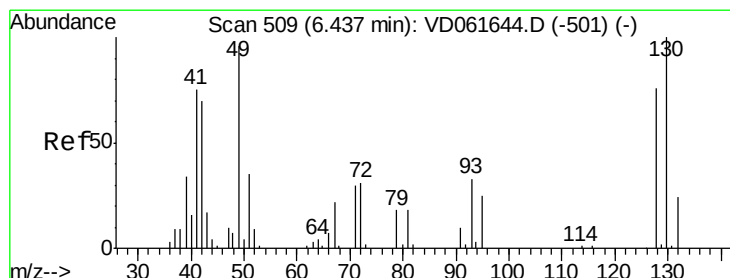
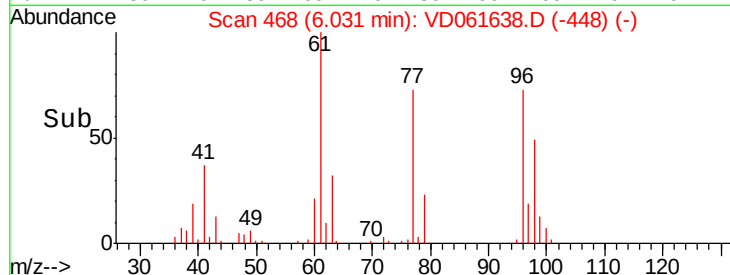
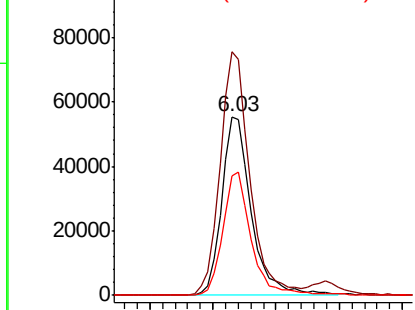


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

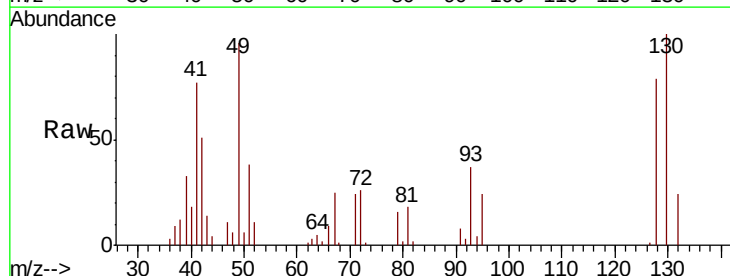
Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane
 Concen: 18.005 ug/l
 RT: 6.43 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion	49	Resp	88959
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	104.4	83.3	124.9

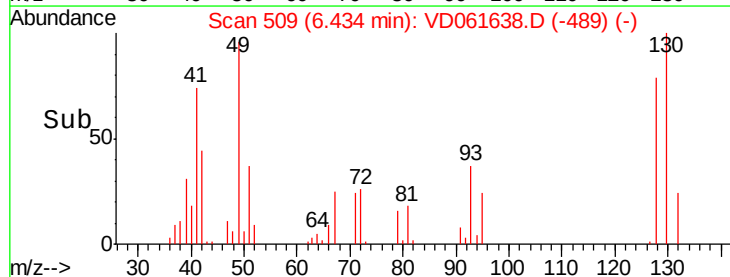
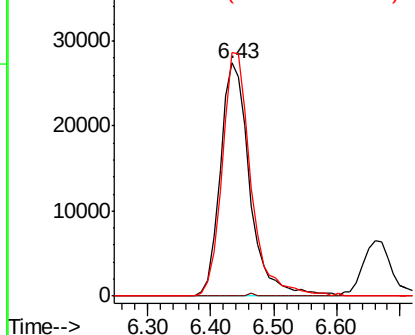


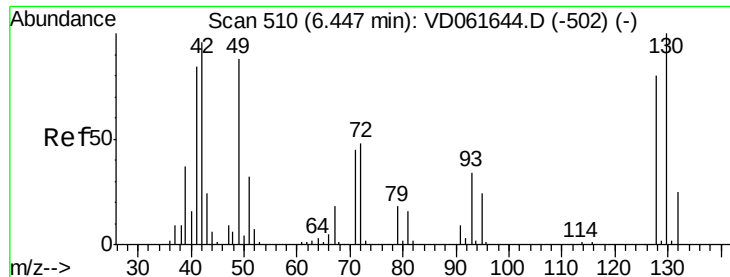
Abundance

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

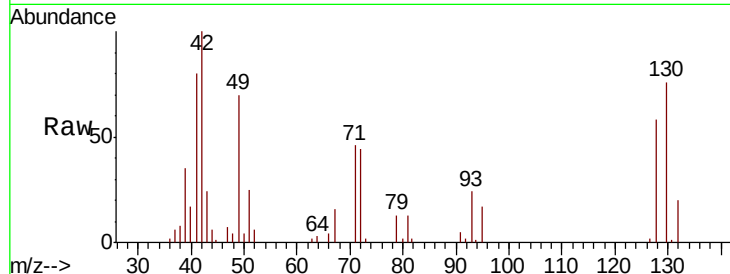




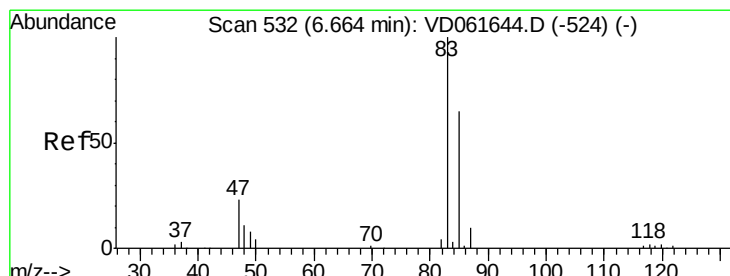
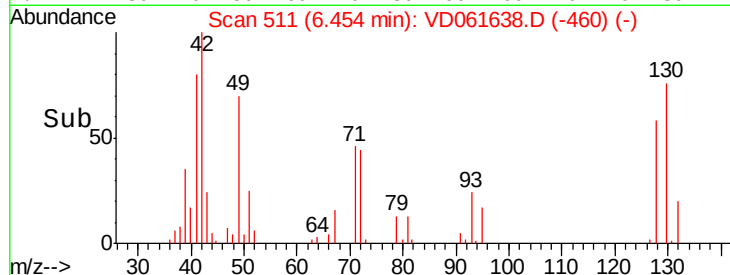
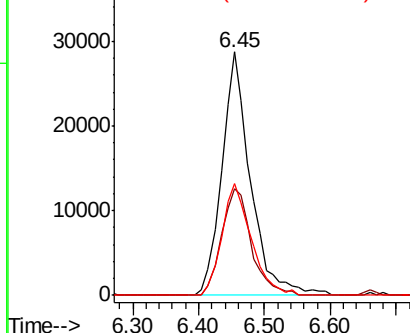
#29
Tetrahydrofuran
Concen: 92.780 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 42 Resp: 87039
Ion Ratio Lower Upper
42 100
72 45.8 37.0 55.6
71 46.8 36.5 54.7

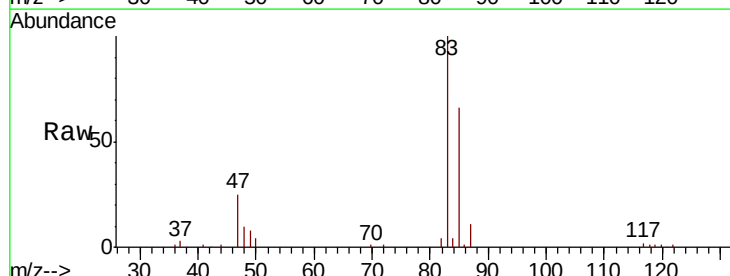


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

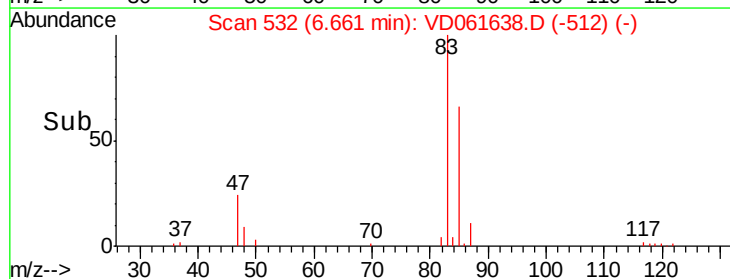
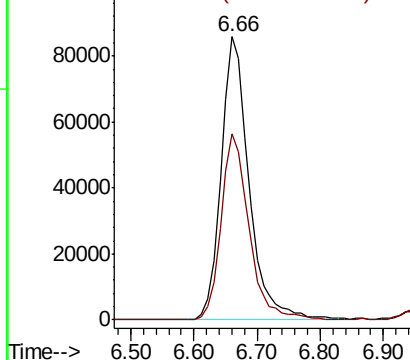


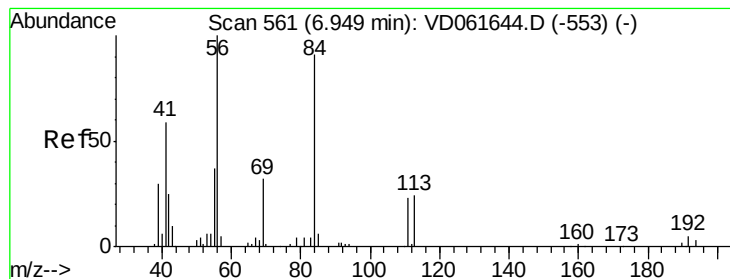
#30
Chloroform
Concen: 18.301 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 83 Resp: 263493
Ion Ratio Lower Upper
83 100
85 65.6 51.9 77.9



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





#31

Cyclohexane

Concen: 17.371 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampleId :

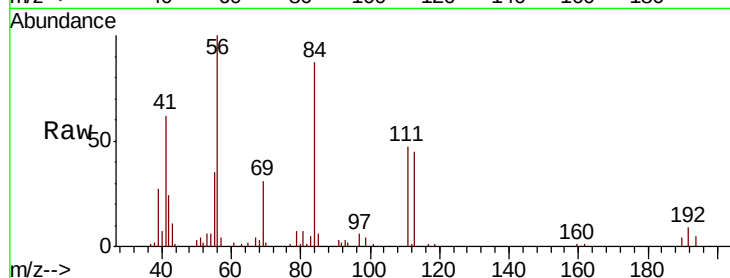
Tot Ion: 56 Resp: 184279

Ion Ratio Lower Upper

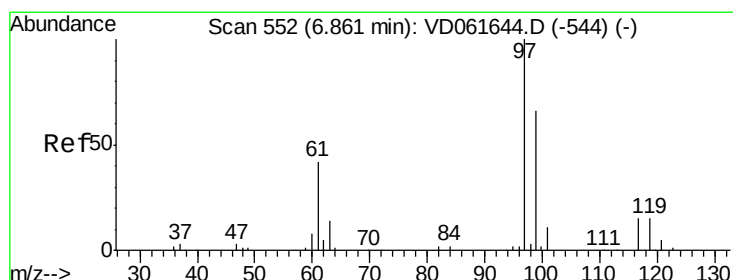
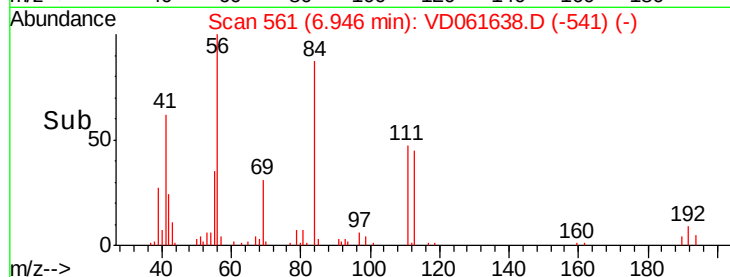
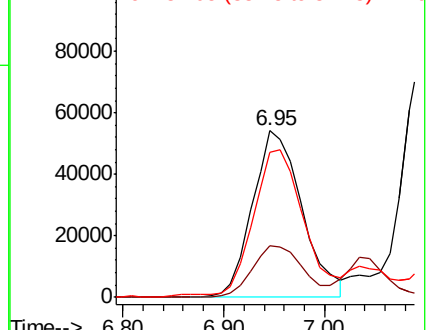
56 100

69 31.0 25.8 38.6

84 87.1 74.2 111.2



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



#32

1,1,1-Trichloroethane

Concen: 18.960 ug/l

RT: 6.87 min Scan# 553

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

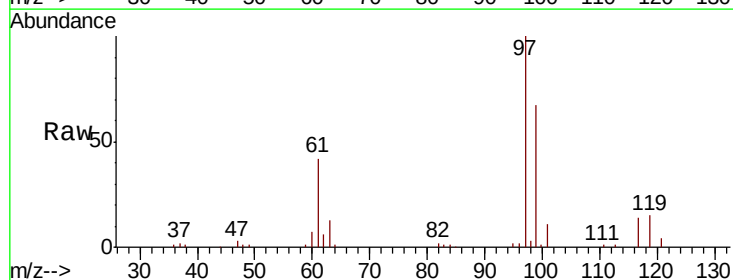
Tgt Ion: 97 Resp: 239778

Ion Ratio Lower Upper

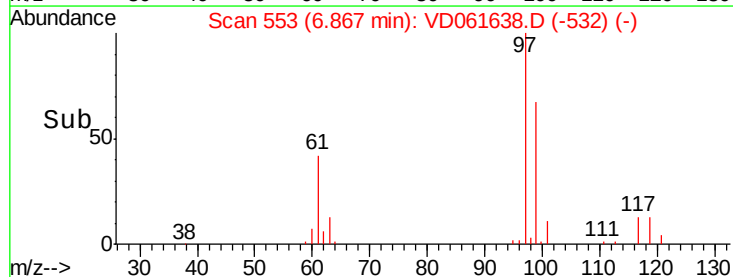
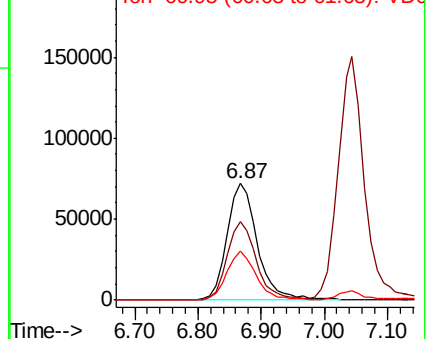
97 100

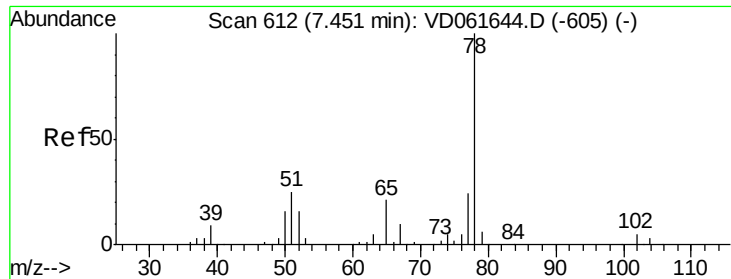
99 66.9 52.5 78.7

61 41.8 33.4 50.0



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 18.960 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

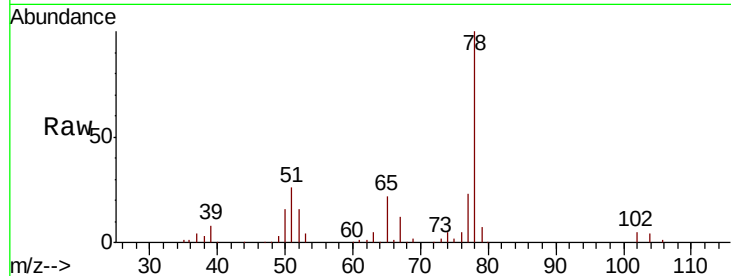
ClientSampleId :

Tot Ion: 65 Resp: 106477

Ion Ratio Lower Upper

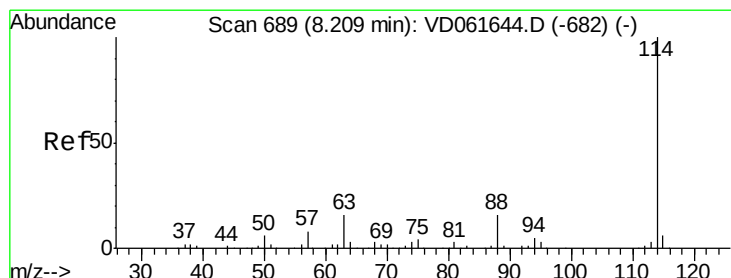
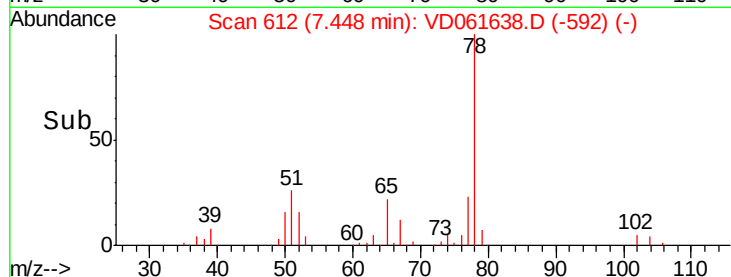
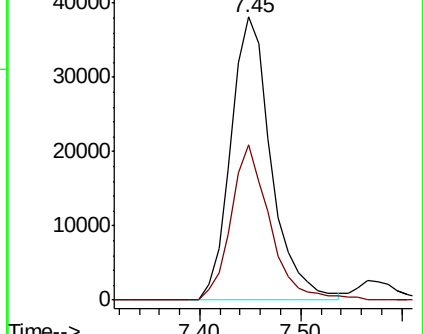
65 100

67 54.8 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

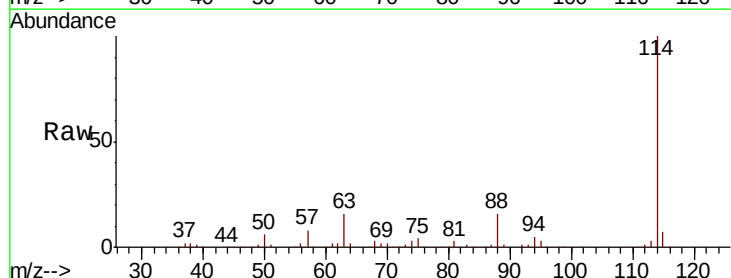
Tgt Ion: 114 Resp: 1167318

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.2

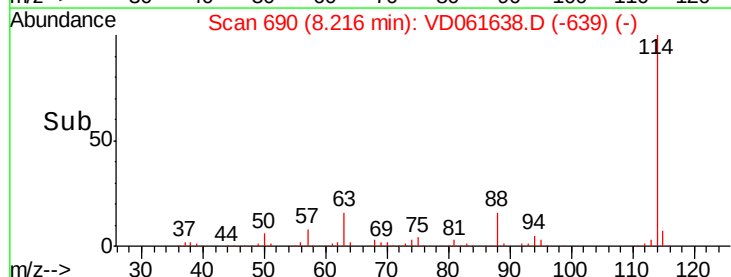
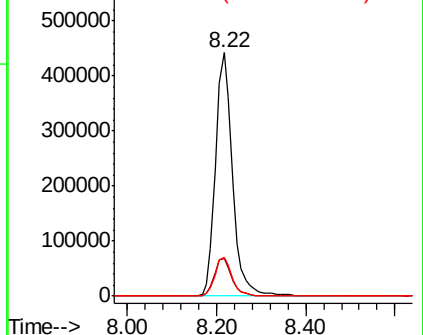
88 16.1 0.0 31.8

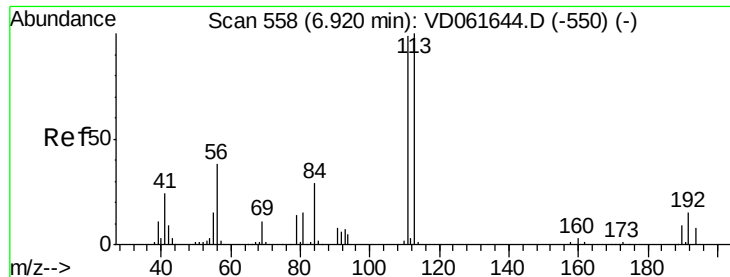


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

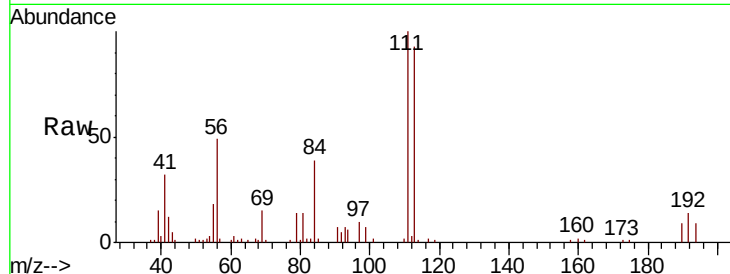




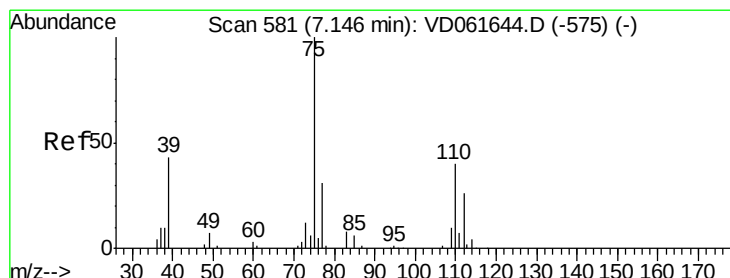
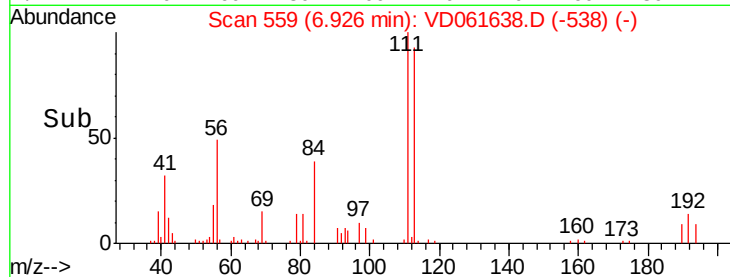
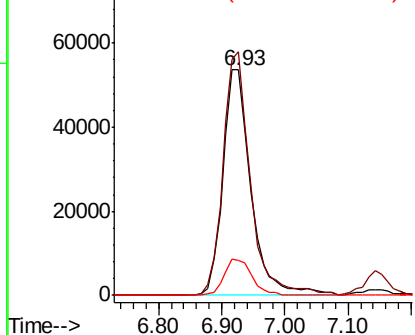
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 165642
 Ion Ratio Lower Upper
 113 100
 111 107.9 79.3 118.9
 192 15.4 12.3 18.5

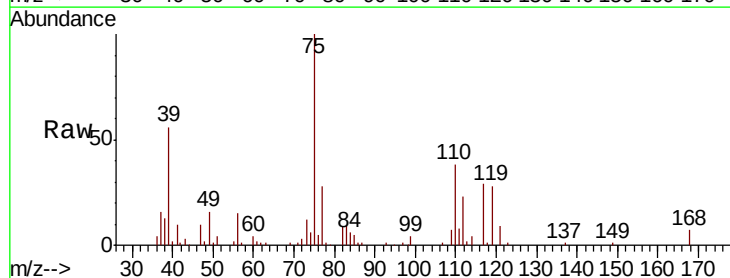


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

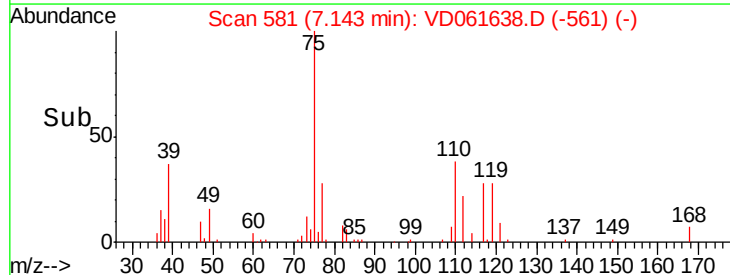
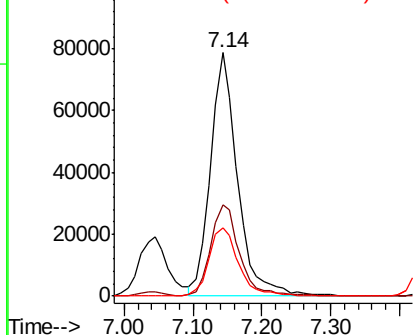


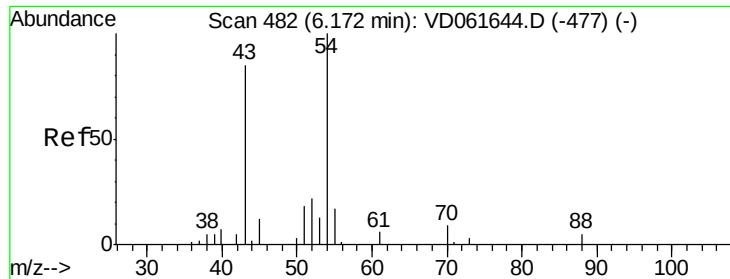
#36
 1,1-Dichloropropene
 Concen: 20.427 ug/l
 RT: 7.14 min Scan# 581
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 75 Resp: 213196
 Ion Ratio Lower Upper
 75 100
 110 37.5 19.7 59.0
 77 28.3 24.8 37.2



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

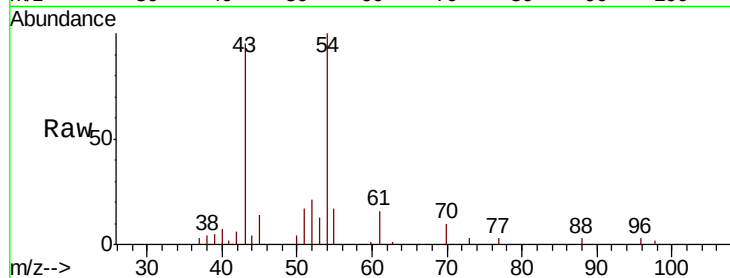




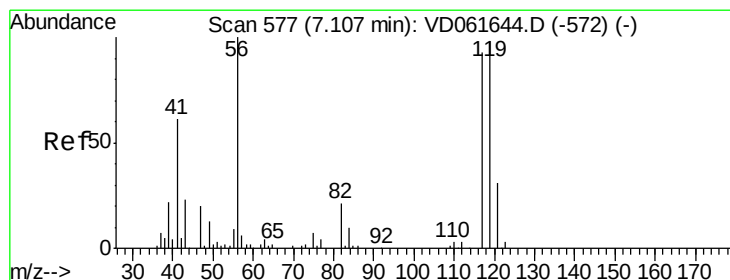
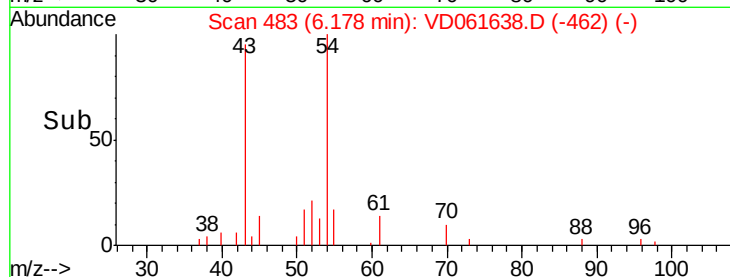
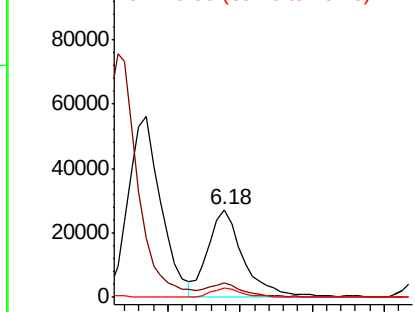
#37
Ethyl Acetate
Concen: 21.534 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 93298
Ion Ratio Lower Upper
43 100
61 17.0 11.9 17.9
70 10.2 6.9 10.3

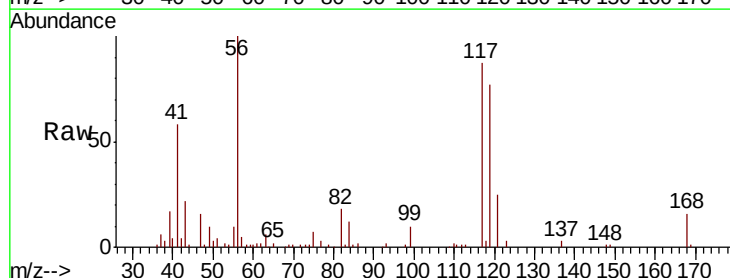


Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 60.95 (60.65 to 61.65): VD0
Ion 70.00 (69.70 to 70.70): VD0

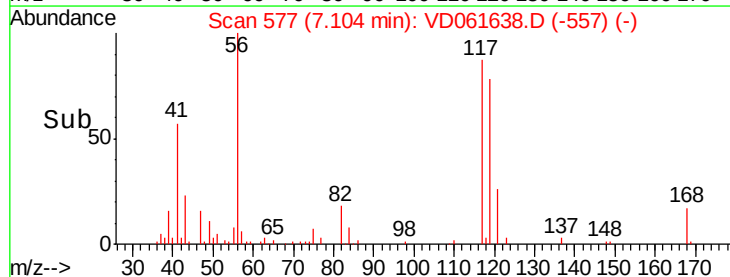
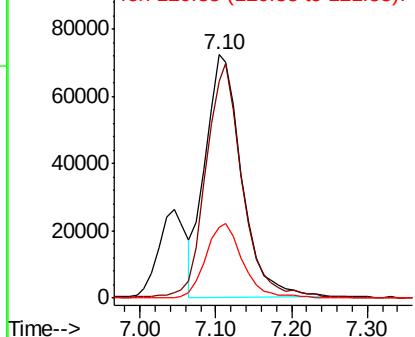


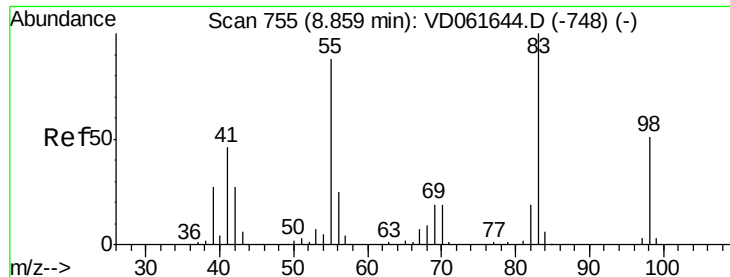
#38
Carbon Tetrachloride
Concen: 20.175 ug/l
RT: 7.10 min Scan# 577
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 117 Resp: 243232
Ion Ratio Lower Upper
117 100
119 89.2 77.9 116.9
121 29.2 24.7 37.1



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

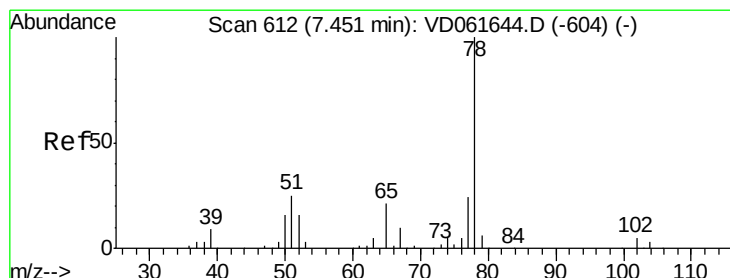
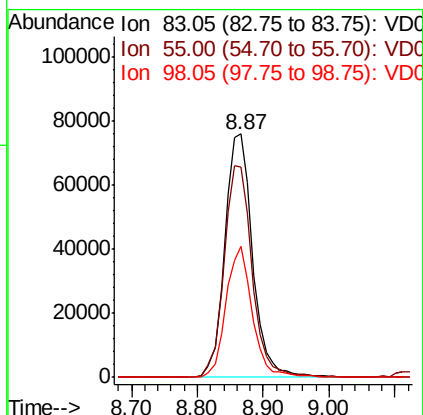
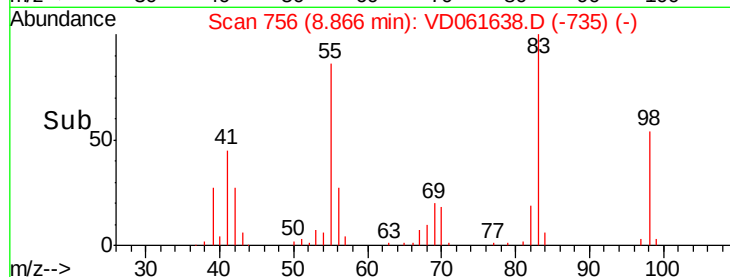
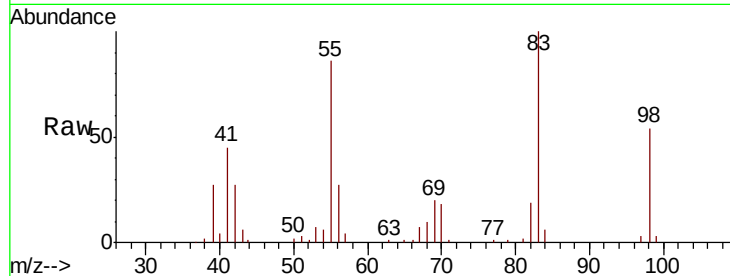




#39
Methylvlcyclohexane
Concen: 20.626 ug/l
RT: 8.87 min Scan# 756
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

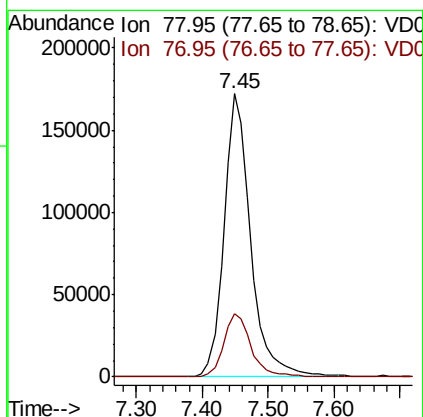
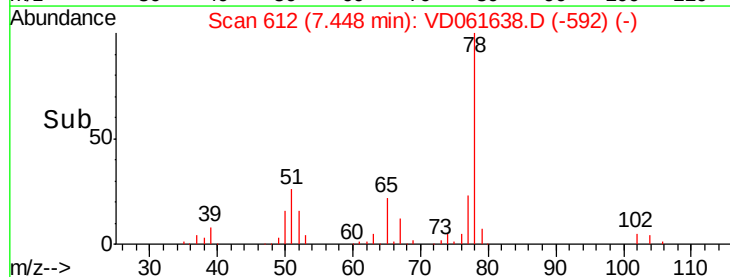
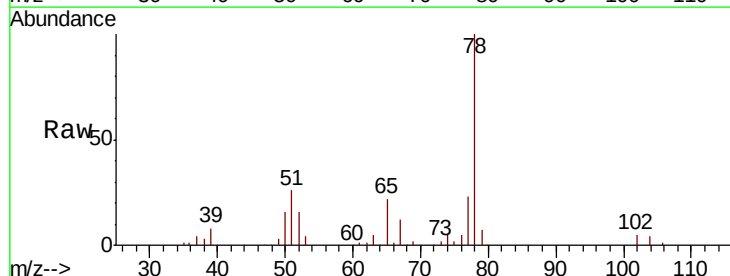
Instrument :
MSVOA_D
ClientSampled :

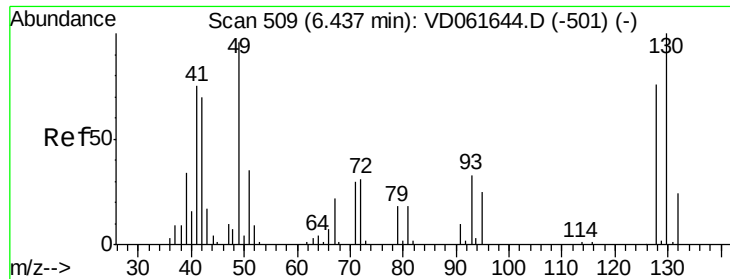
Tot Ion: 83 Resp: 224415
Ion Ratio Lower Upper
83 100
55 86.4 70.3 105.5
98 53.6 41.0 61.6



#40
Benzene
Concen: 19.266 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 78 Resp: 486516
Ion Ratio Lower Upper
78 100
77 22.5 19.5 29.3

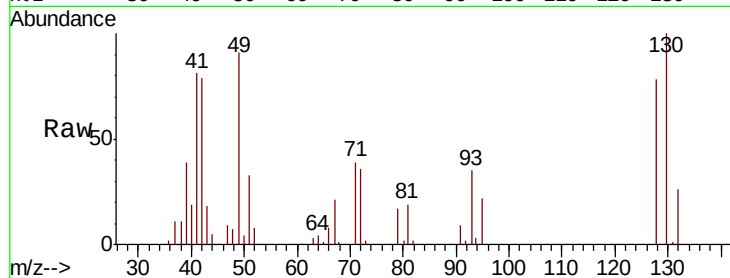




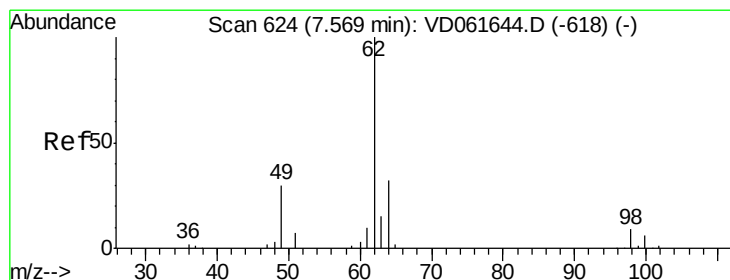
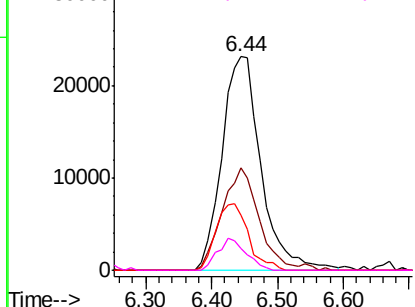
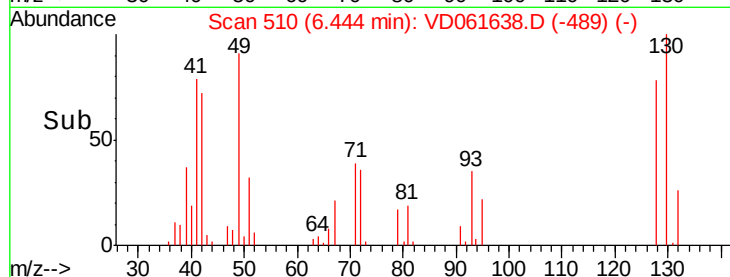
#41
Methacrylonitrile
Concen: 19.602 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 95716
Ion Ratio Lower Upper
41 100
39 48.1 36.2 54.2
67 25.8 23.2 34.8
52 10.4 10.0 15.0

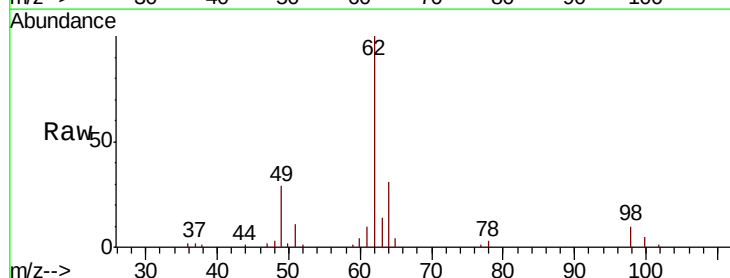


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

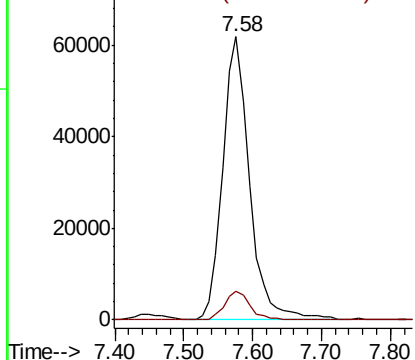
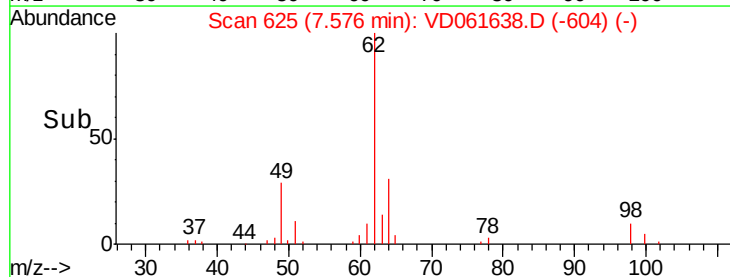


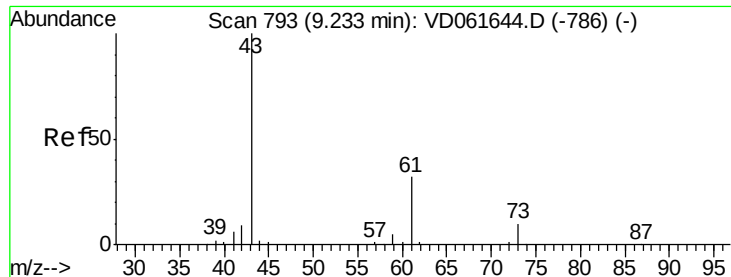
#42
1,2-Dichloroethane
Concen: 20.903 ug/l
RT: 7.58 min Scan# 625
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 62 Resp: 166832
Ion Ratio Lower Upper
62 100
98 10.2 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



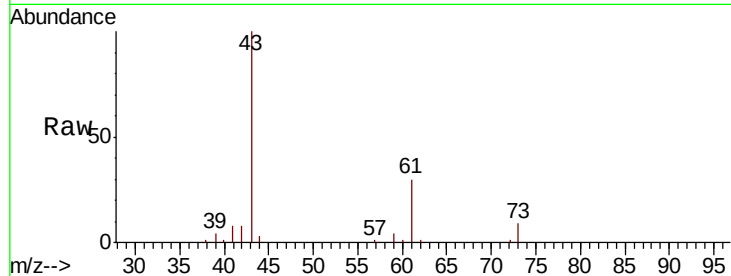


#43

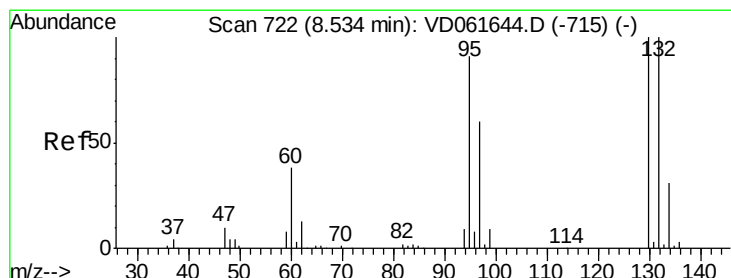
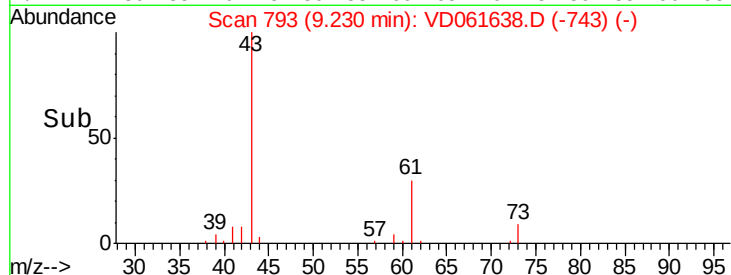
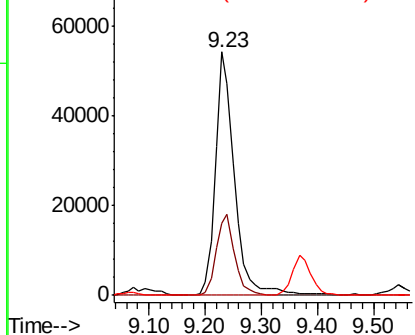
Isopropyl Acetate
 Concen: 20.811 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	43	Resp	129577
Ion Ratio	Lower	Upper	
43	100		
61	29.8	25.9	38.9
87	0.0	0.2	0.4



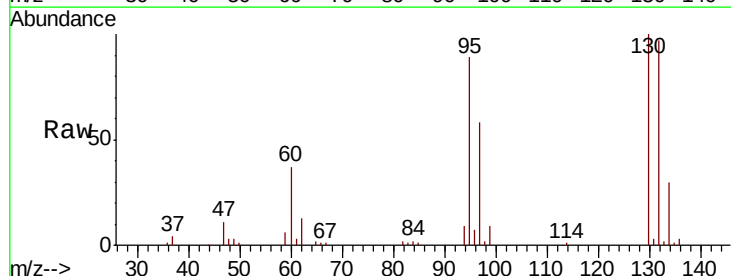
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



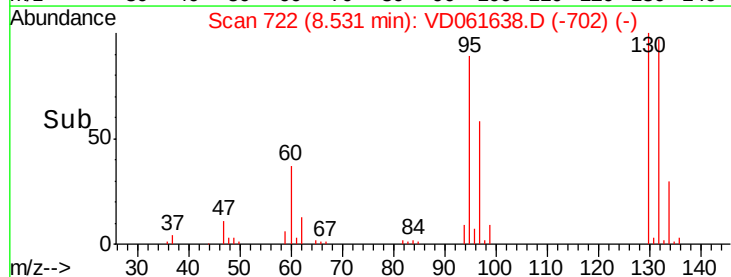
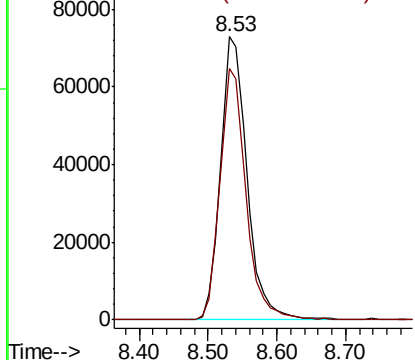
#44

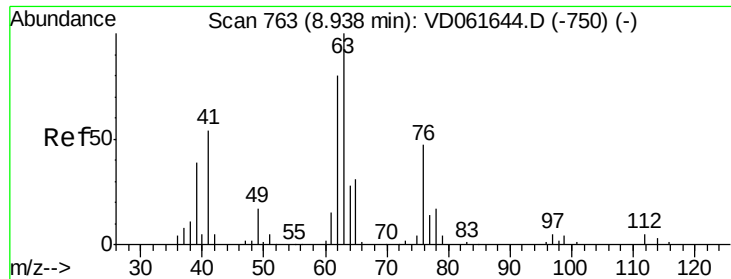
Trichloroethene
 Concen: 20.213 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion	130	Resp	194445
Ion Ratio	Lower	Upper	
130	100		
95	88.7	0.0	181.8



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VDC

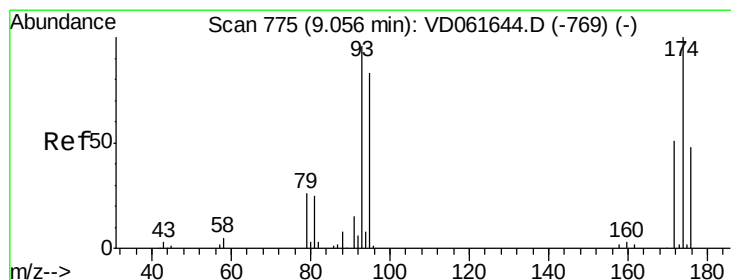
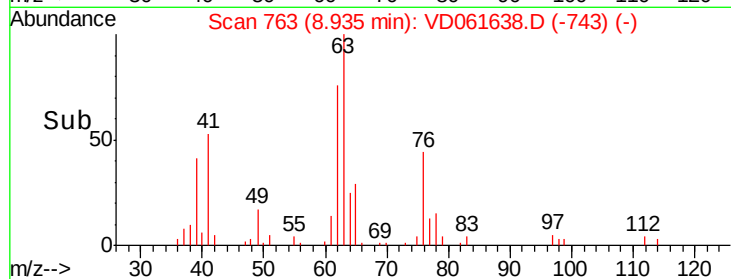
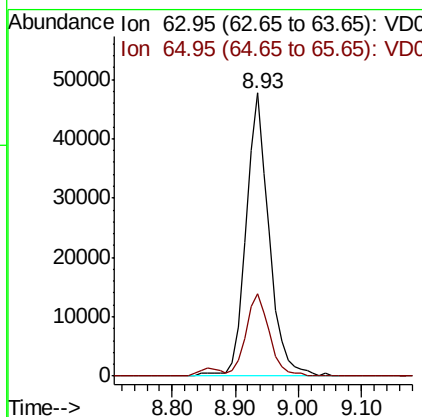
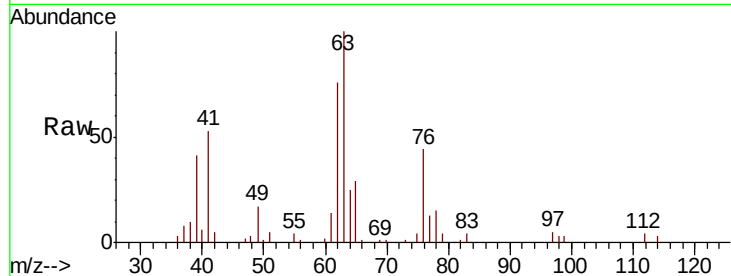




#45
 1,2-Dichloropropane
 Concen: 19.497 ug/l
 RT: 8.93 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

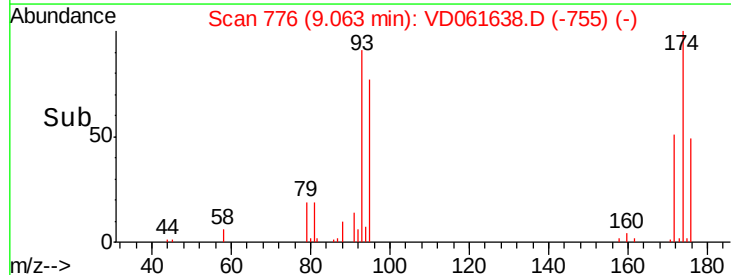
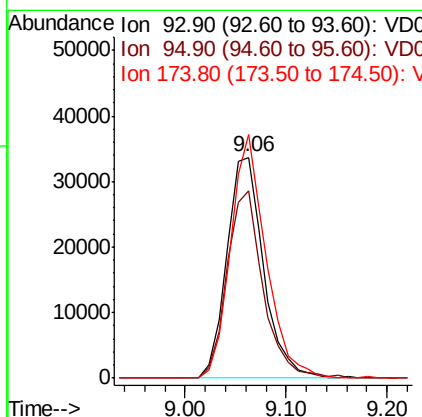
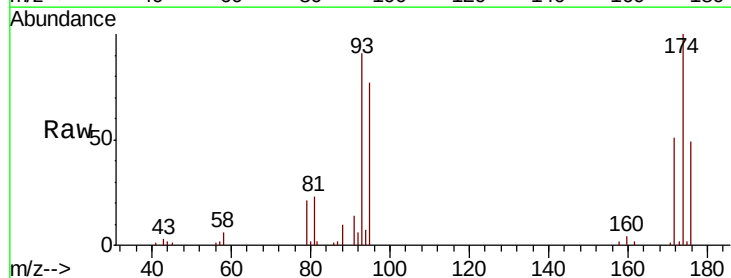
Instrument :
 MSVOA_D
 ClientSampleId :

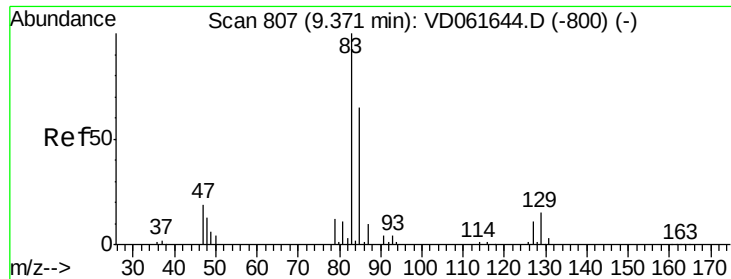
Tot Ion: 63 Resp: 120603
 Ion Ratio Lower Upper
 63 100
 65 29.2 24.5 36.7



#46
 Dibromomethane
 Concen: 19.385 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. 0.01 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 93 Resp: 84993
 Ion Ratio Lower Upper
 93 100
 95 84.5 68.6 103.0
 174 110.1 83.0 124.4

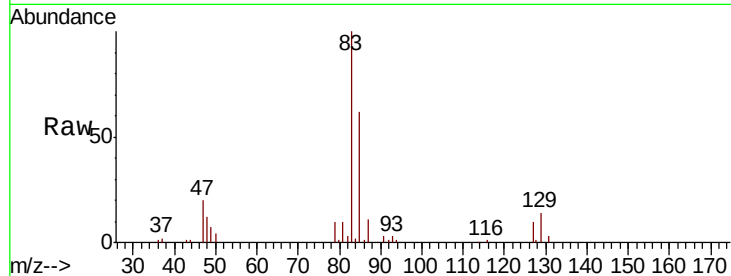




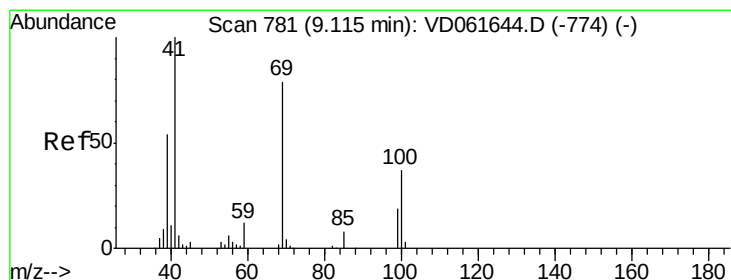
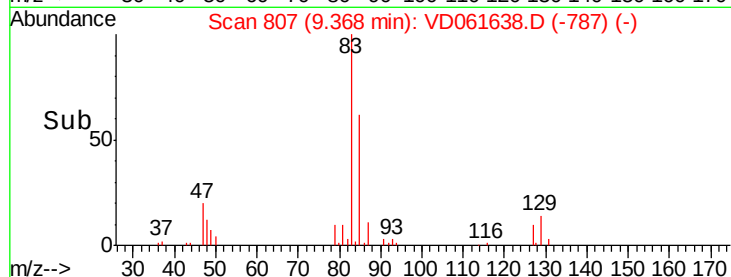
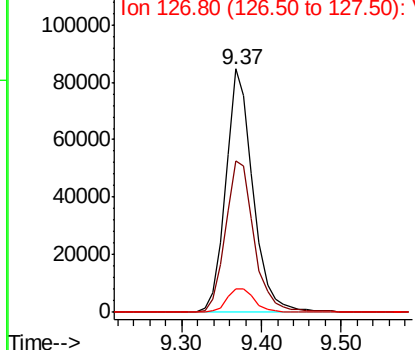
#47
Bromodichloromethane
Concen: 20.548 ug/l
RT: 9.37 min Scan# 807
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 83 Resp: 201385
Ion Ratio Lower Upper
83 100
85 62.3 51.8 77.6
127 9.7 9.0 13.6

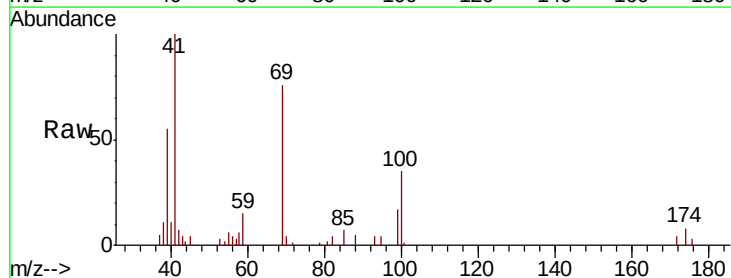


Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC

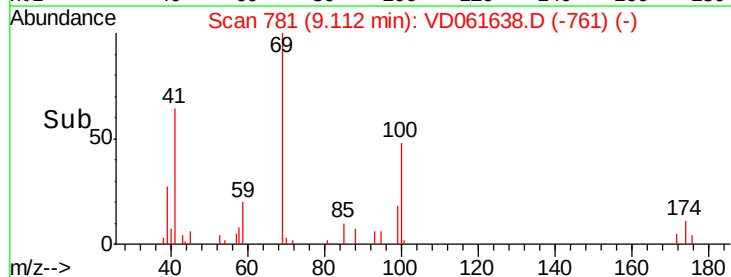
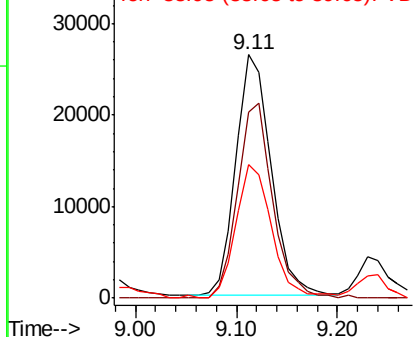


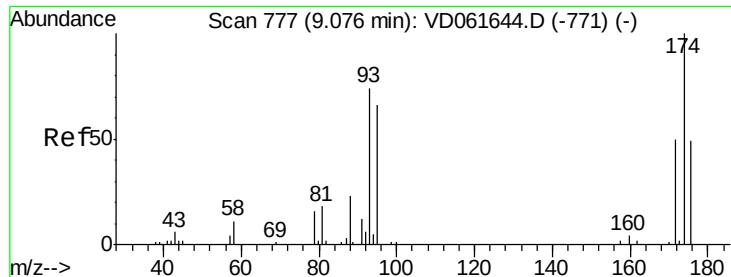
#48
Methyl methacrylate
Concen: 18.632 ug/l
RT: 9.11 min Scan# 781
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 41 Resp: 64143
Ion Ratio Lower Upper
41 100
69 76.3 63.1 94.7
39 54.7 43.8 65.8



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

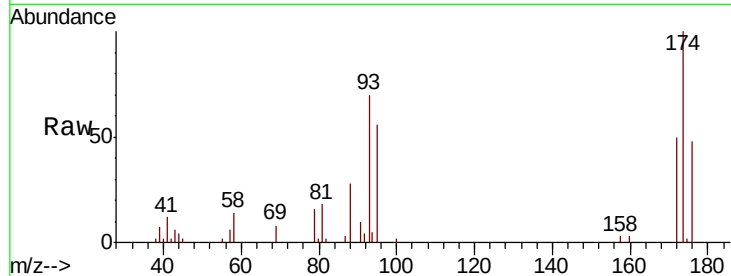




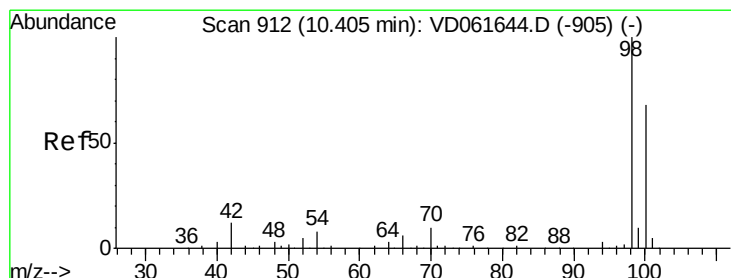
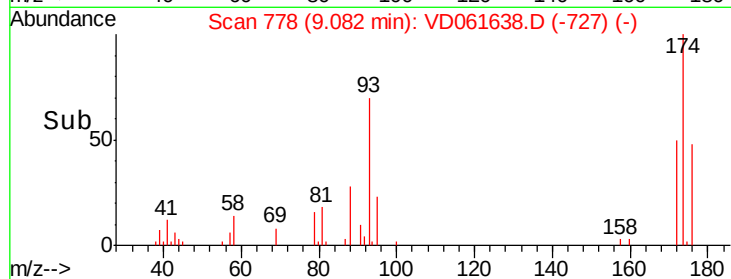
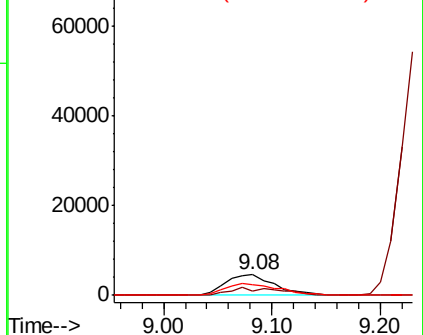
#49
1,4-Dioxane
Concen: 384.300 ug/l
RT: 9.08 min Scan# 778
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 14644
Ion Ratio Lower Upper
88 100
43 22.7 21.8 32.8
58 48.8 40.2 60.2

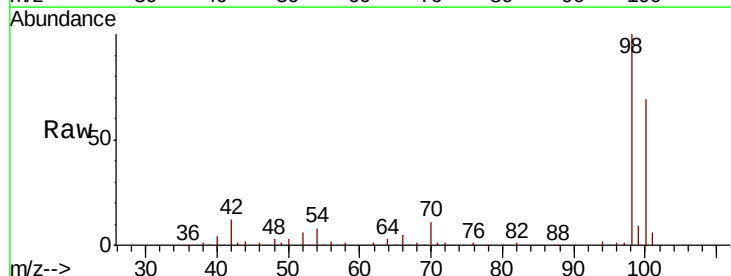


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

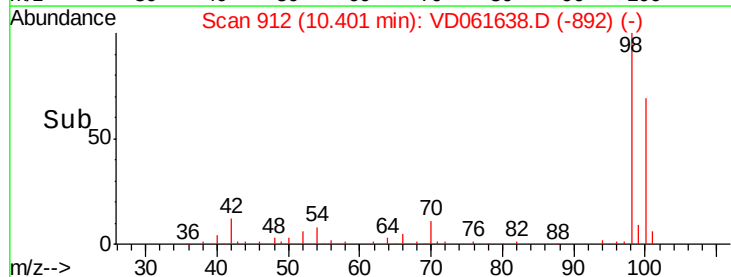
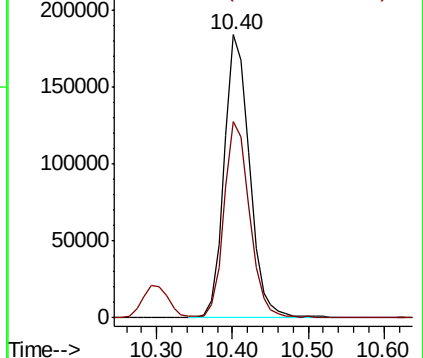


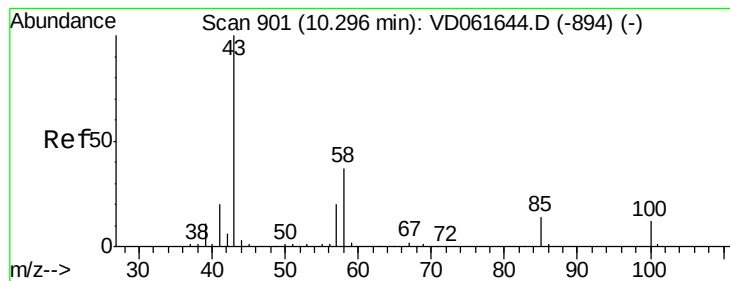
#50
Toluene-d8
Concen: 384.300 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 98 Resp: 426047
Ion Ratio Lower Upper
98 100
100 69.3 55.4 83.0



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: 109.581 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

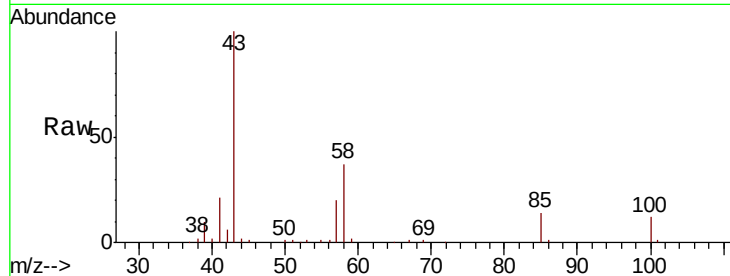
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 401742

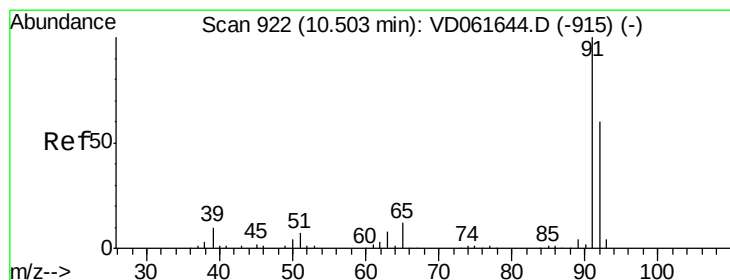
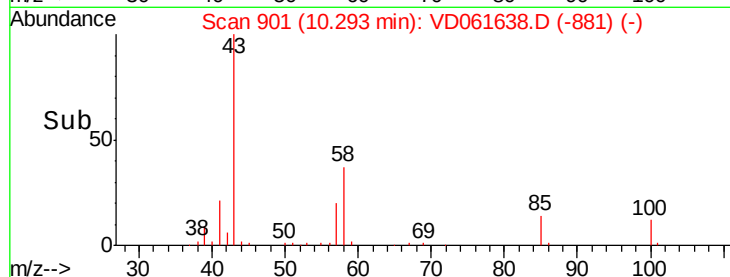
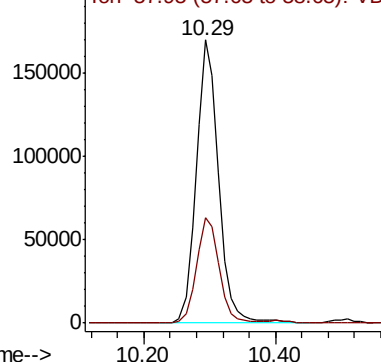
Ion Ratio Lower Upper

43 100

58 37.4 29.8 44.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.404 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD061638.D

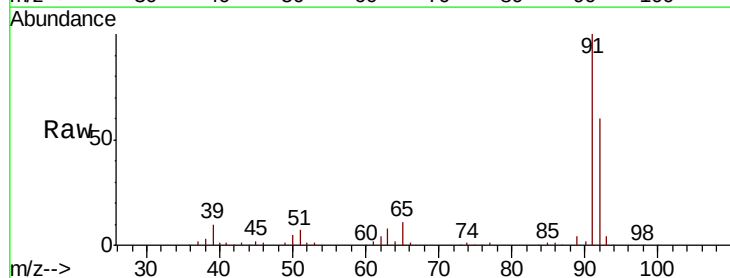
Acq: 6 Apr 2019 12:35

Tgt Ion: 92 Resp: 334818

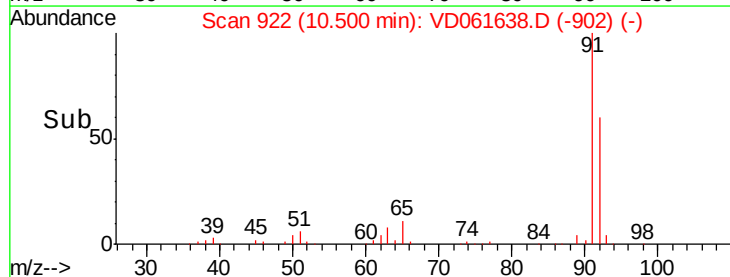
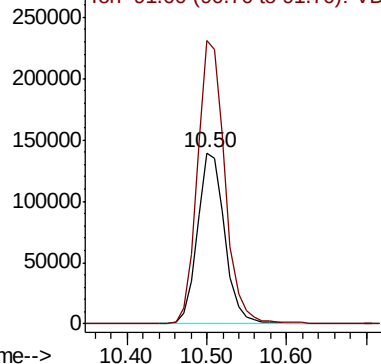
Ion Ratio Lower Upper

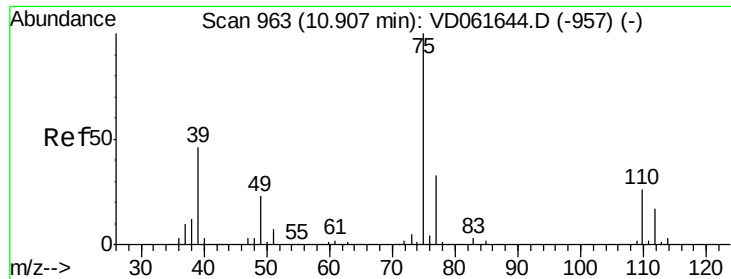
92 100

91 165.5 133.0 199.4



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

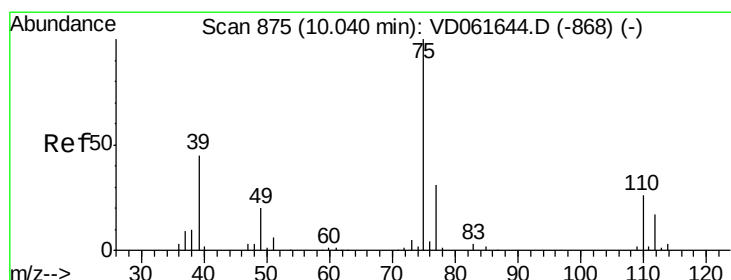
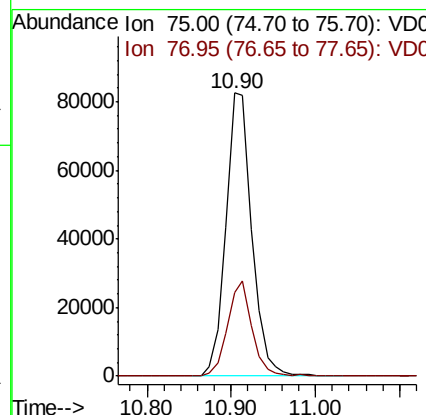
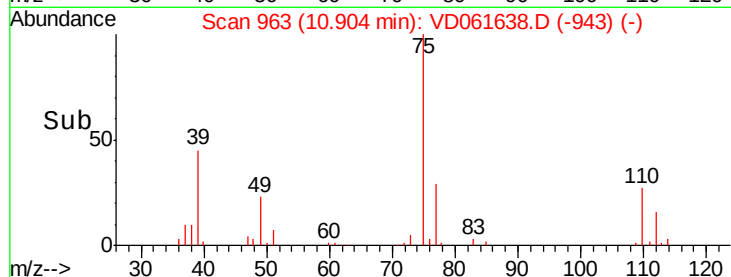
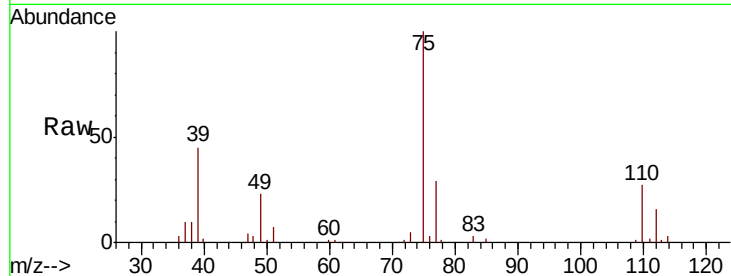




#53
 t-1,3-Dichloropropene
 Concen: 20.343 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

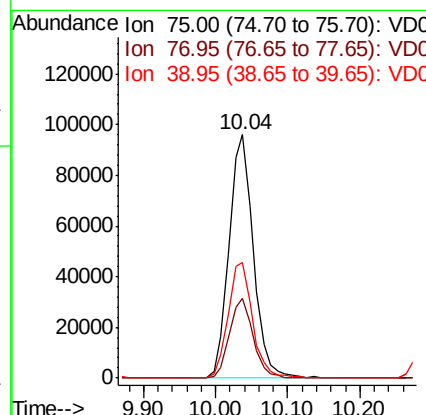
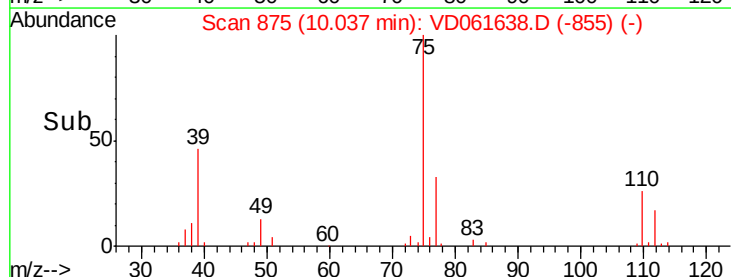
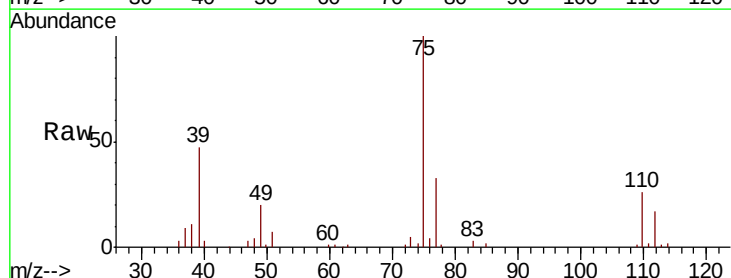
Instrument :
 MSVOA_D
 ClientSampleId :

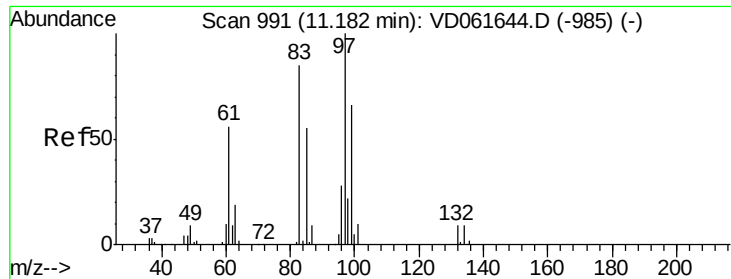
Tot Ion: 75 Resp: 176077
 Ion Ratio Lower Upper
 75 100
 77 29.5 26.2 39.2



#54
 cis-1,3-Dichloropropene
 Concen: 21.029 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 75 Resp: 224224
 Ion Ratio Lower Upper
 75 100
 77 32.7 24.6 37.0
 39 47.4 36.2 54.2

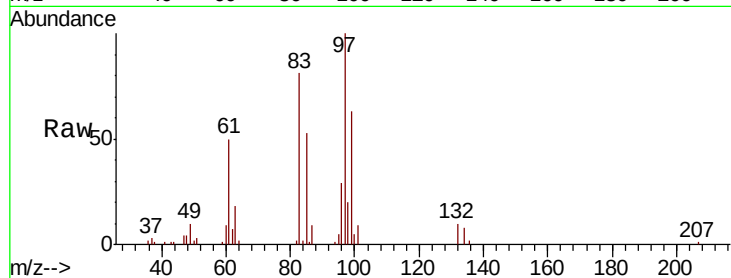




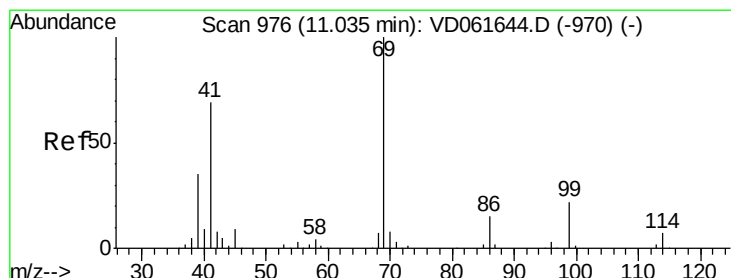
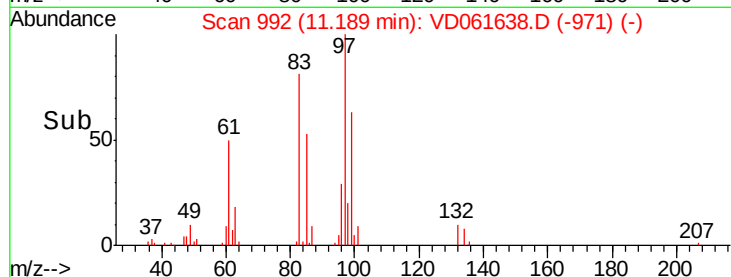
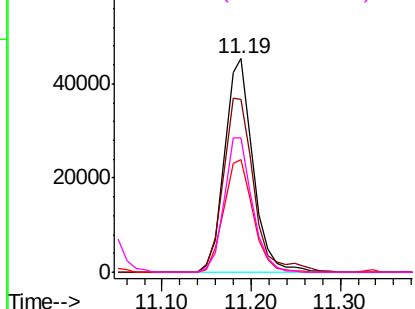
#55
 1,1,2-Trichloroethane
 Concen: 19.768 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 97 Resp: 101956
 Ion Ratio Lower Upper
 97 100
 83 81.2 67.8 101.6
 85 52.6 43.8 65.8
 99 63.0 52.8 79.2

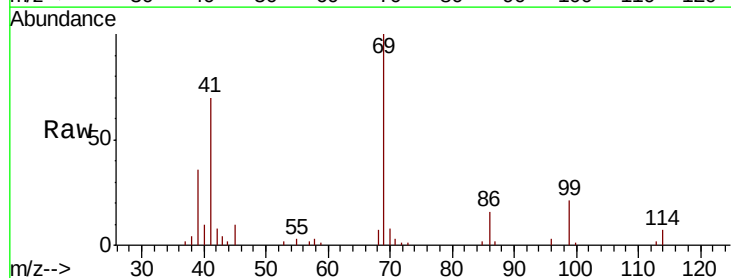


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

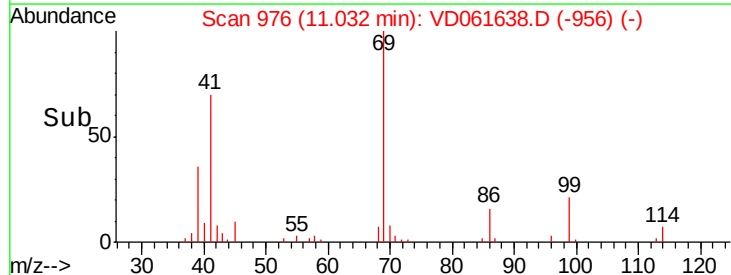
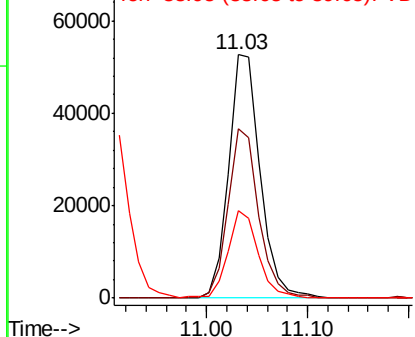


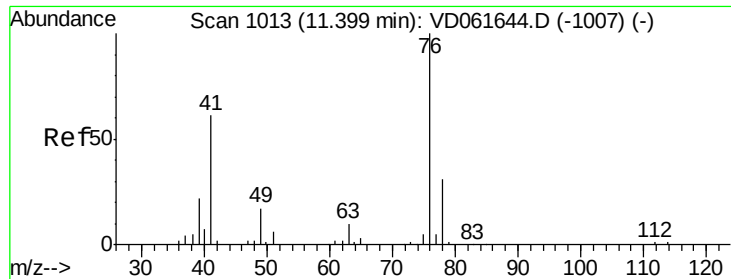
#56
 Ethyl methacrylate
 Concen: 20.318 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 69 Resp: 113859
 Ion Ratio Lower Upper
 69 100
 41 69.6 55.2 82.8
 39 35.8 28.6 43.0



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

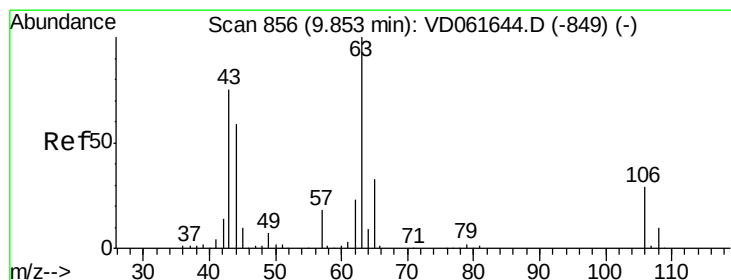
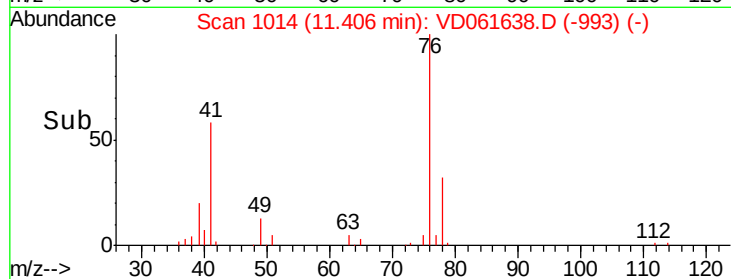
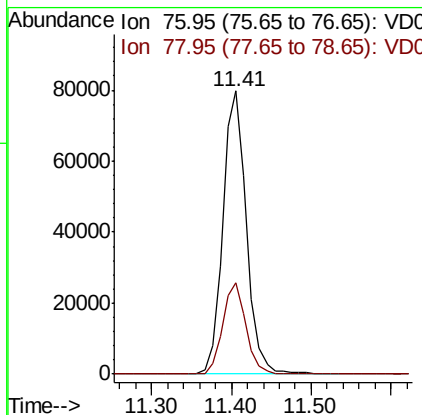
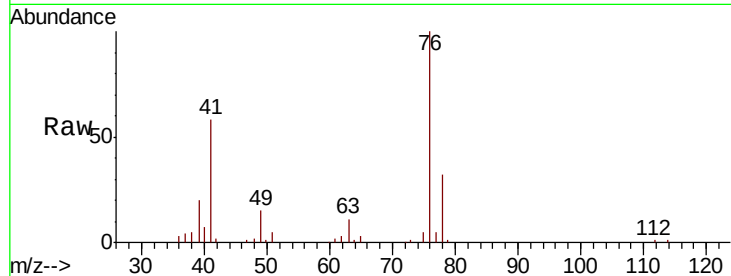




#57
 1,3-Dichloropropane
 Concen: 21.186 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. 0.01 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

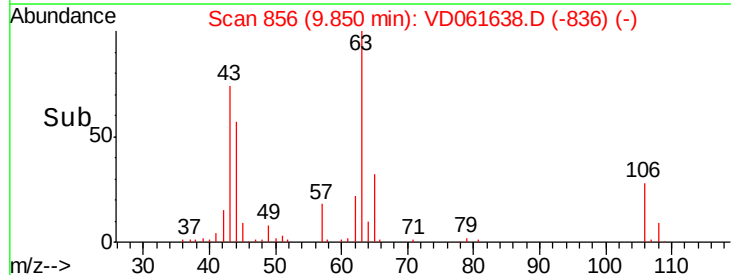
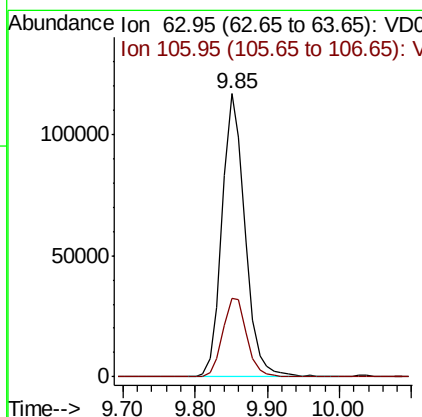
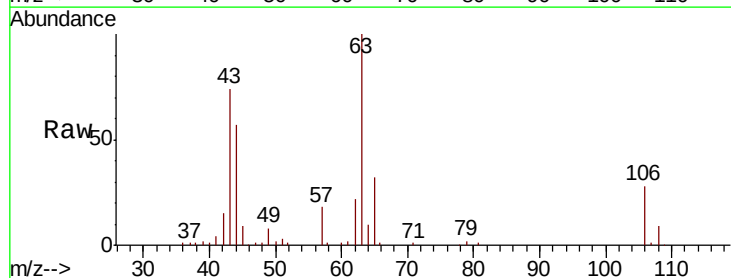
Instrument :
 MSVOA_D
 ClientSampleId :

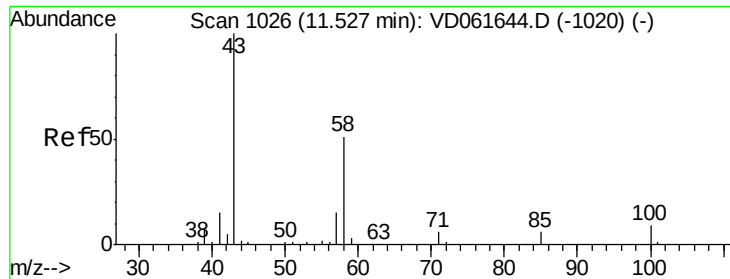
Tot Ion: 76 Resp: 164976
 Ion Ratio Lower Upper
 76 100
 78 32.4 24.5 36.7



#58
 2-Chloroethyl Vinyl ether
 Concen: 101.514 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 63 Resp: 257726
 Ion Ratio Lower Upper
 63 100
 106 27.8 23.0 34.6

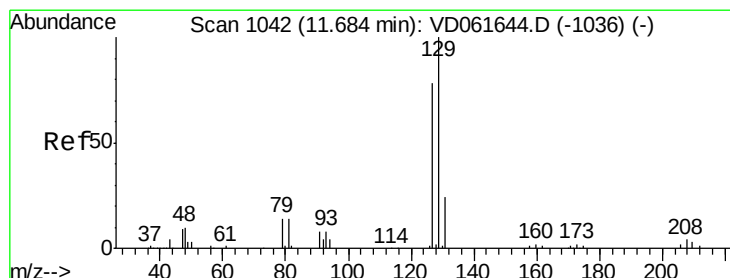
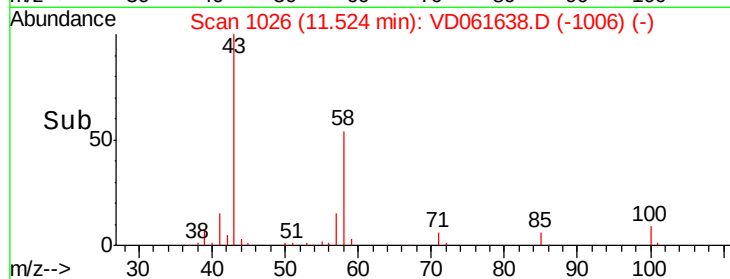
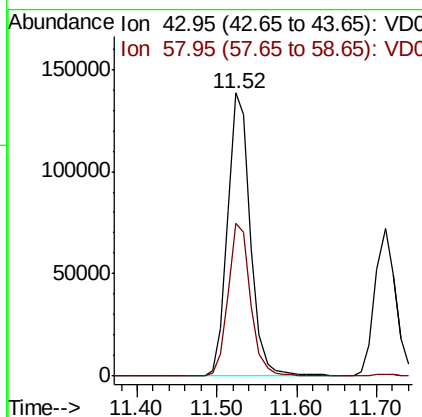
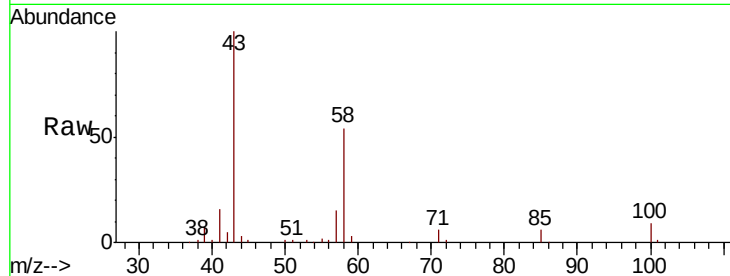




#59
2-Hexanone
Concen: 100.727 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

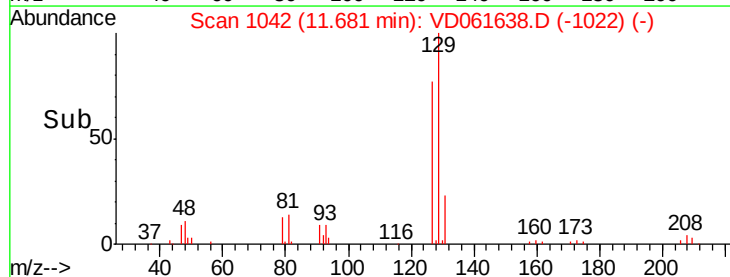
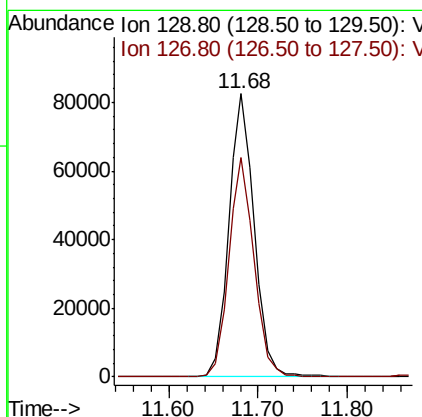
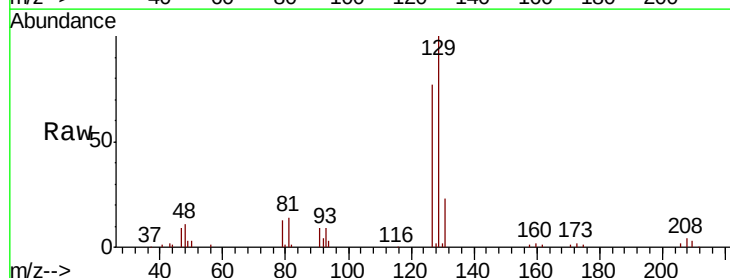
Instrument :
MSVOA_D
ClientSampled :

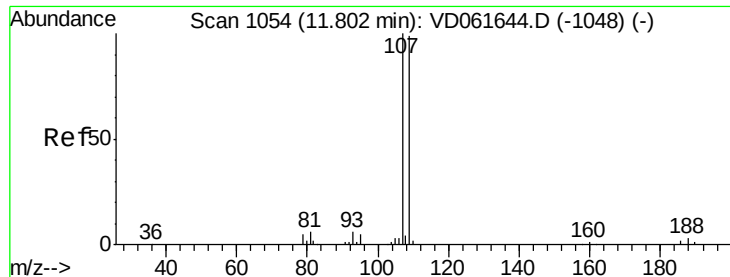
Tot Ion: 43 Resp: 278690
Ion Ratio Lower Upper
43 100
58 54.1 25.6 76.8



#60
Dibromochloromethane
Concen: 20.019 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:129 Resp: 164349
Ion Ratio Lower Upper
129 100
127 77.4 38.8 116.4

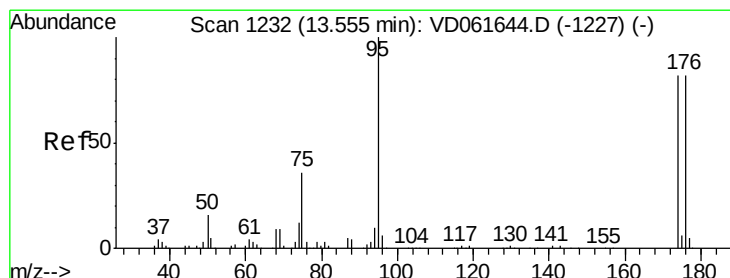
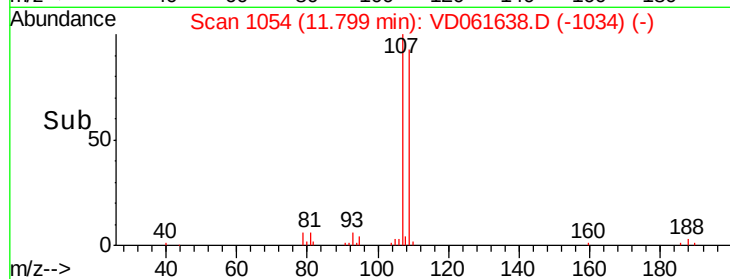
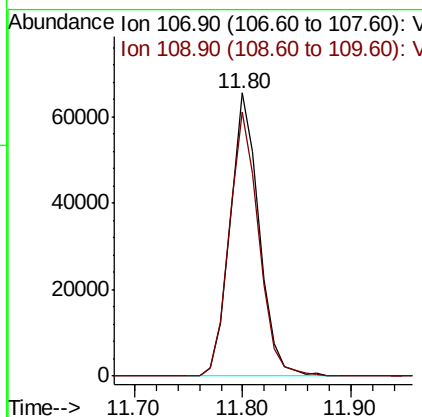
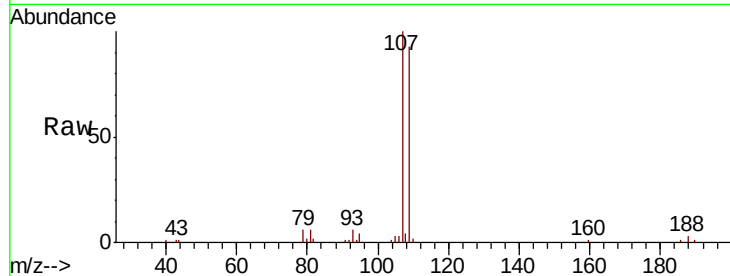




#61
 1,2-Dibromoethane
 Concen: 20.020 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

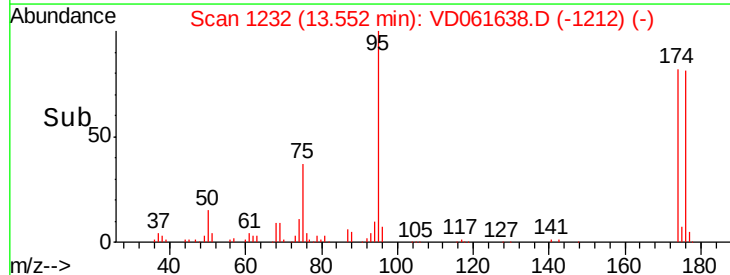
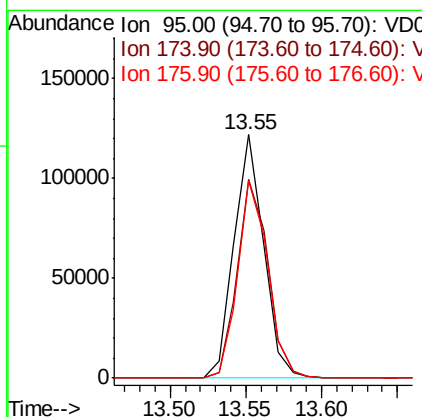
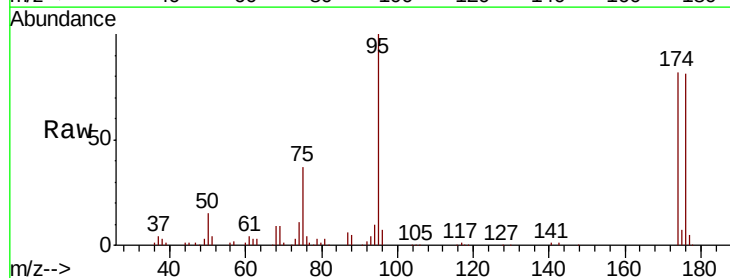
Instrument :
 MSVOA_D
 ClientSampleId :

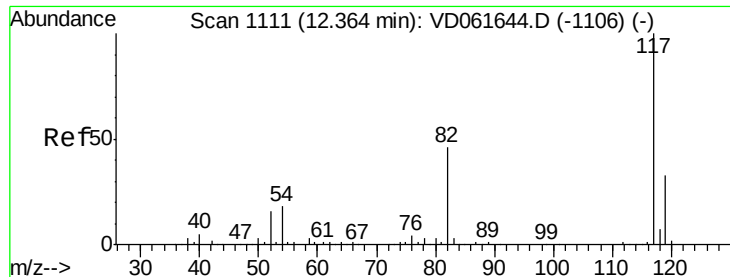
Tot Ion:107 Resp: 121847
 Ion Ratio Lower Upper
 107 100
 109 93.4 79.2 118.8



#62
 4-Bromofluorobenzene
 Concen: 20.020 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 95 Resp: 164923
 Ion Ratio Lower Upper
 95 100
 174 81.9 0.0 164.6
 176 81.3 0.0 165.0

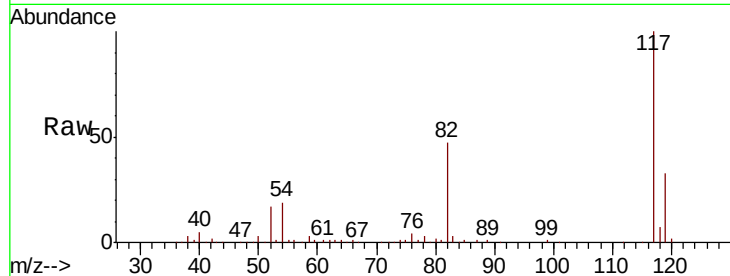




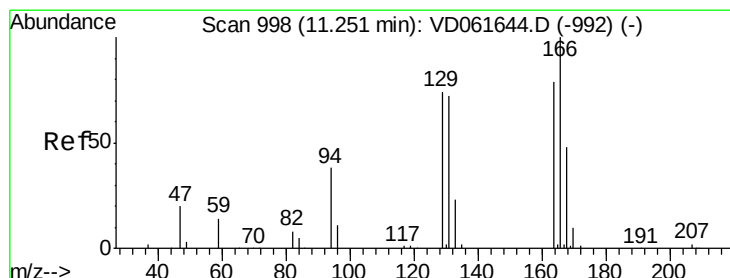
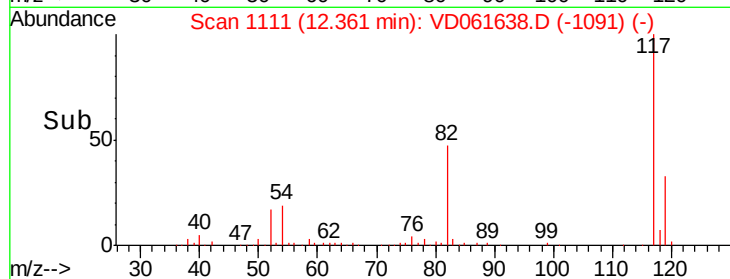
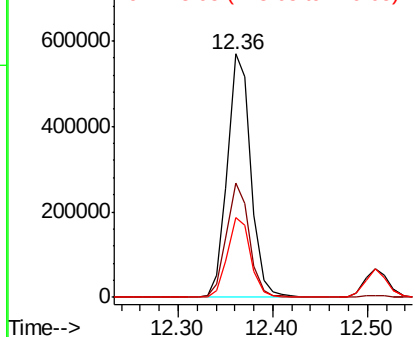
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 978530
Ion Ratio Lower Upper
117 100
82 47.2 36.8 55.2
119 32.9 26.1 39.1

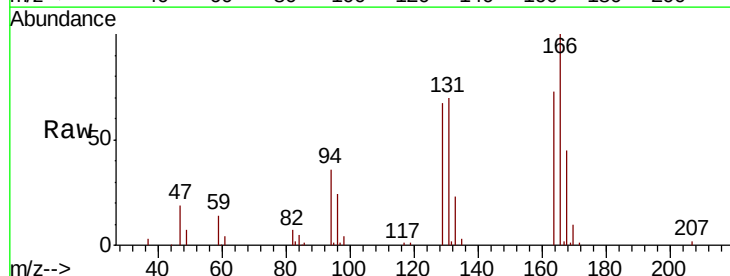


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

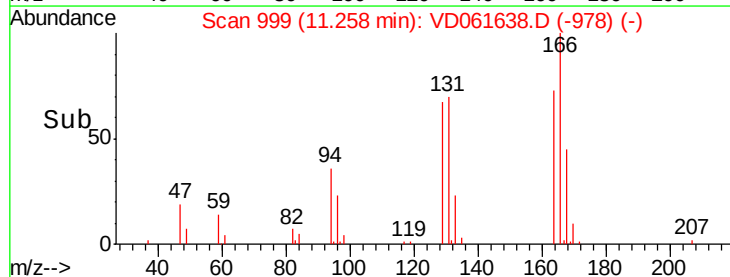
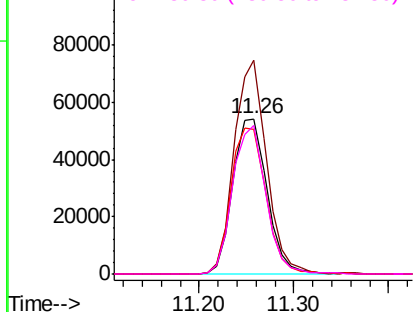


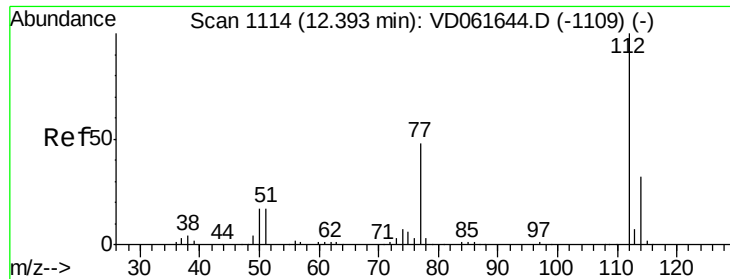
#64
Tetrachloroethene
Concen: 18.156 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:164 Resp: 135567
Ion Ratio Lower Upper
164 100
166 137.8 101.8 152.8
129 93.0 75.4 113.0
131 96.1 73.6 110.4



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

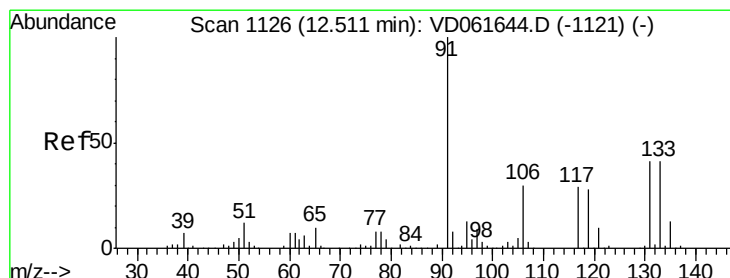
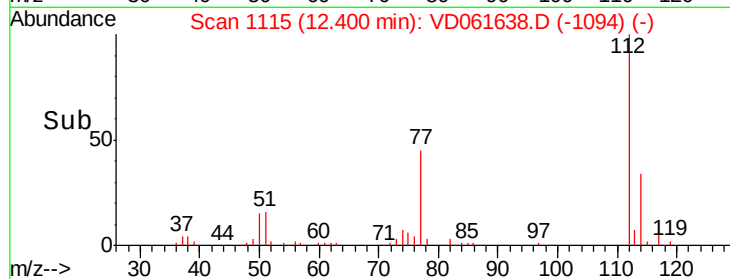
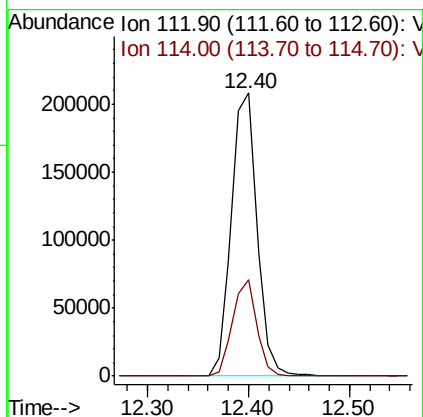
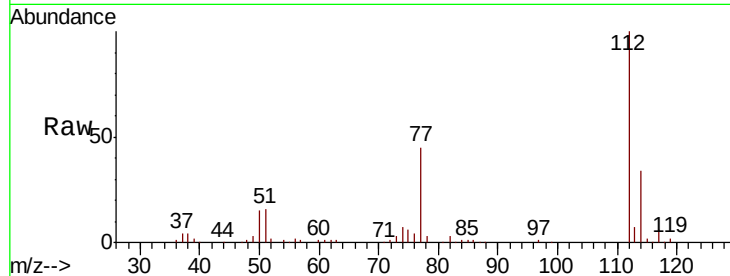




#65
Chlorobenzene
Concen: 19.114 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

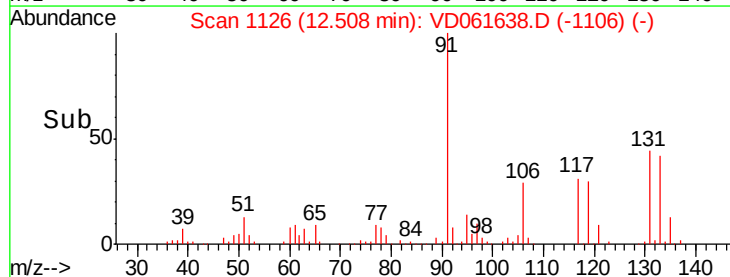
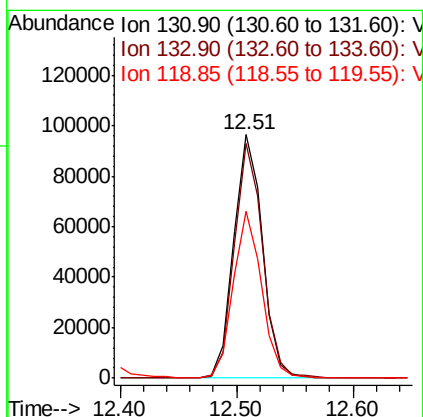
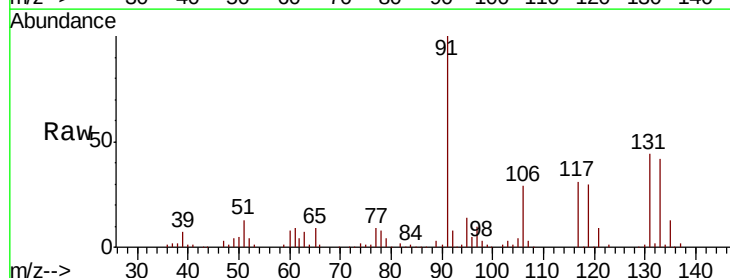
Instrument :
MSVOA_D
ClientSampleId :

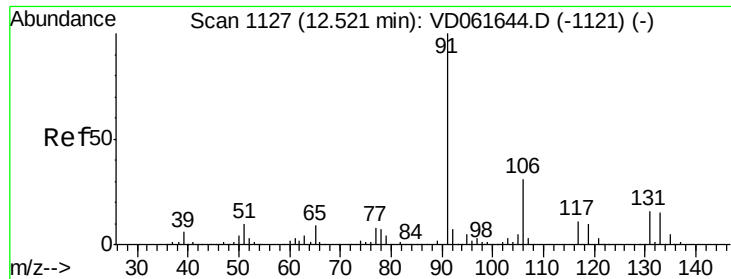
Tot Ion:112 Resp: 368746
Ion Ratio Lower Upper
112 100
114 34.1 25.6 38.4



#66
1,1,1,2-Tetrachloroethane
Concen: 21.345 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:131 Resp: 163751
Ion Ratio Lower Upper
131 100
133 96.6 49.5 148.3
119 68.3 34.7 104.1

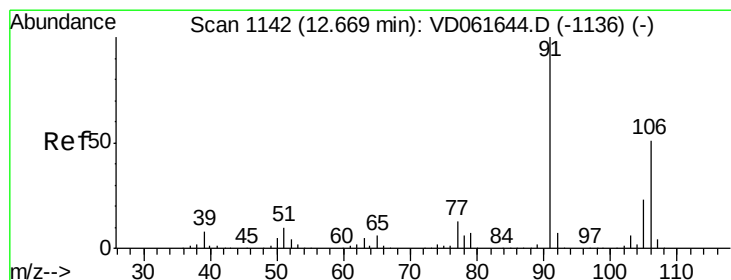
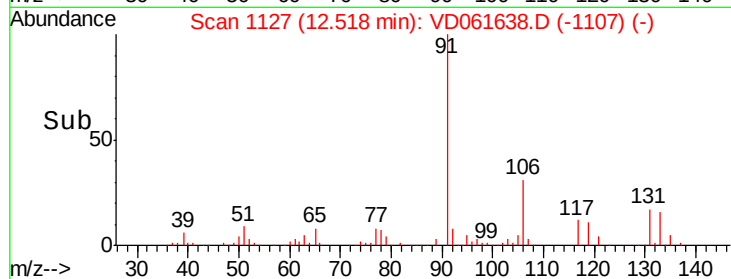
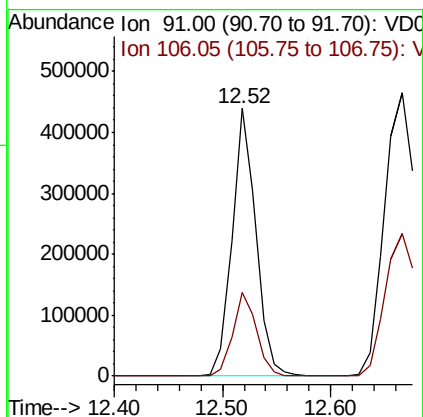
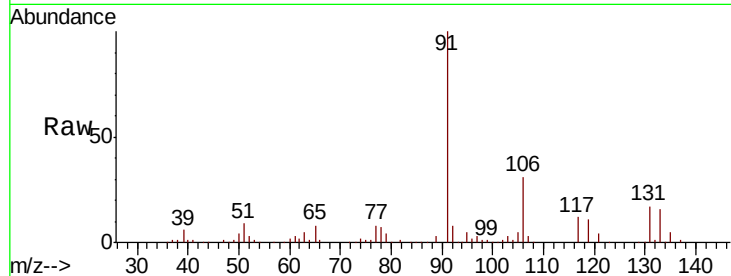




#67
Ethyl Benzene
Concen: 21.881 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

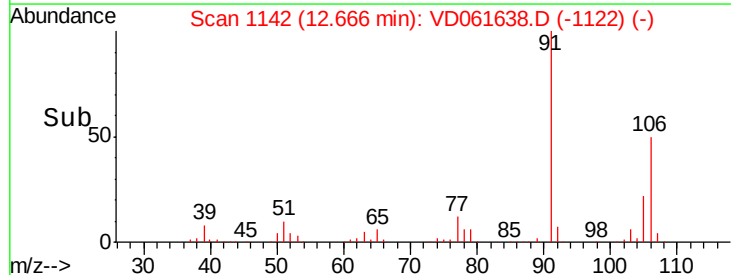
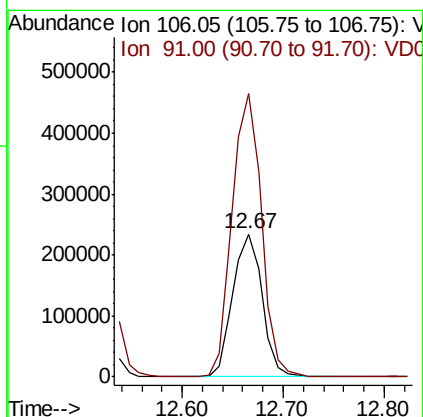
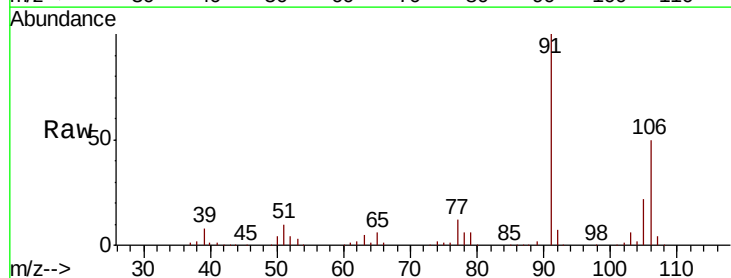
Instrument :
MSVOA_D
ClientSampleID :

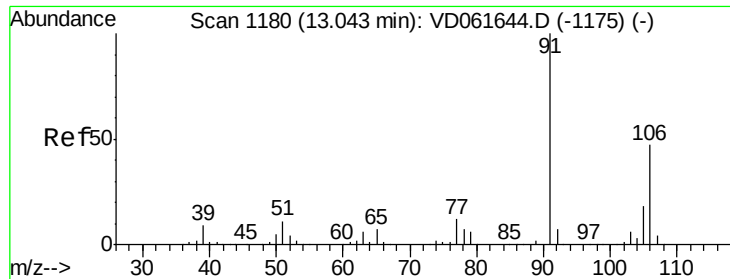
Tot Ion: 91 Resp: 672411
Ion Ratio Lower Upper
91 100
106 31.1 24.6 37.0



#68
m/p-Xylenes
Concen: 41.741 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 106 Resp: 473798
Ion Ratio Lower Upper
106 100
91 198.3 156.7 235.1

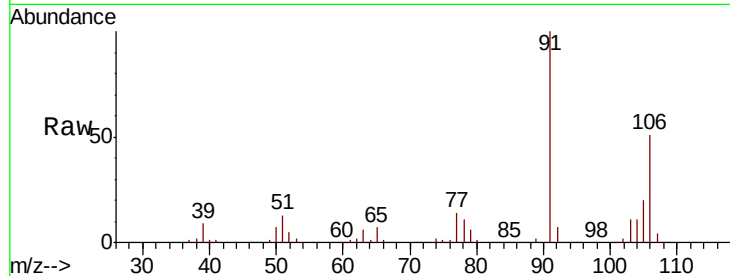




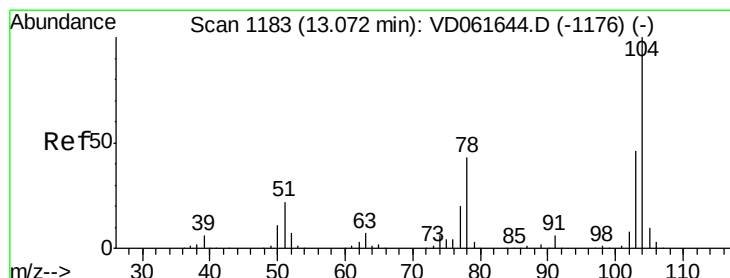
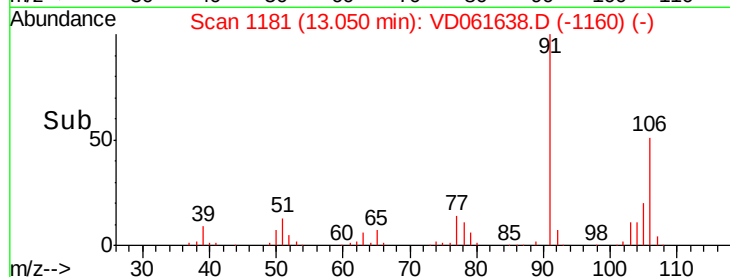
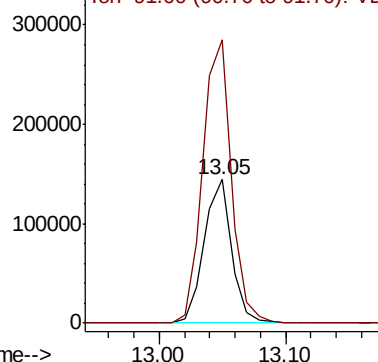
#69
o-Xylene
Concen: 19.625 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 215440
Ion Ratio Lower Upper
106 100
91 197.3 107.3 321.9

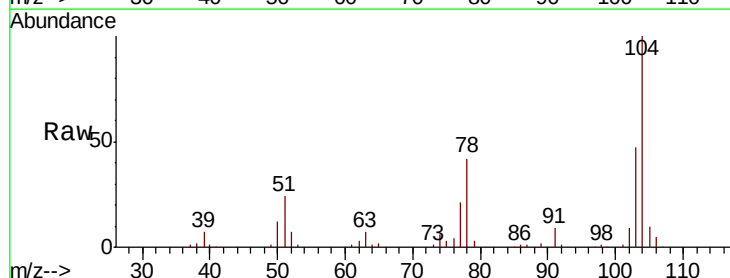


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

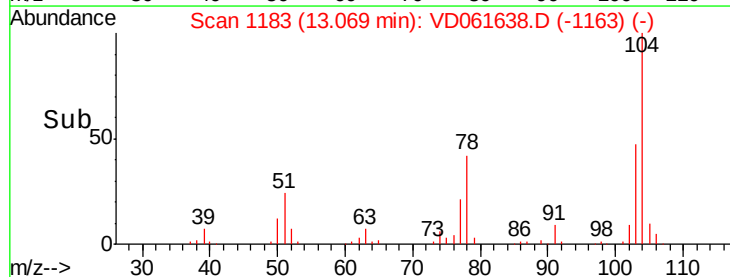
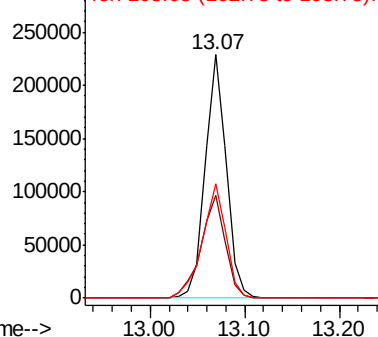


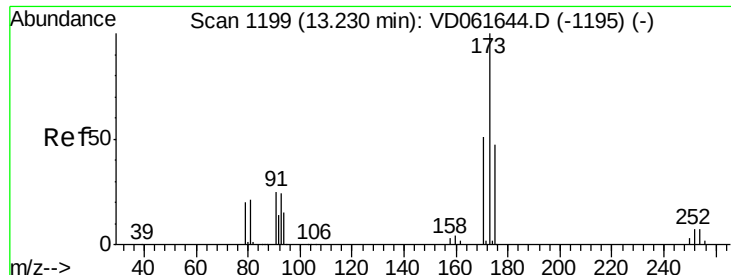
#70
Styrene
Concen: 18.869 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:104 Resp: 354705
Ion Ratio Lower Upper
104 100
78 42.2 34.2 51.4
103 47.0 37.2 55.8



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

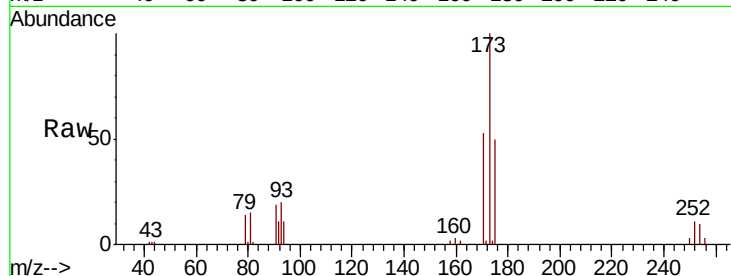




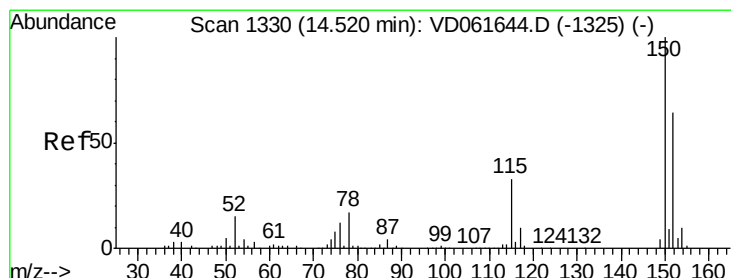
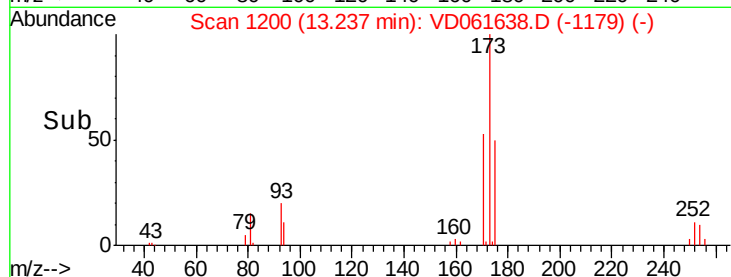
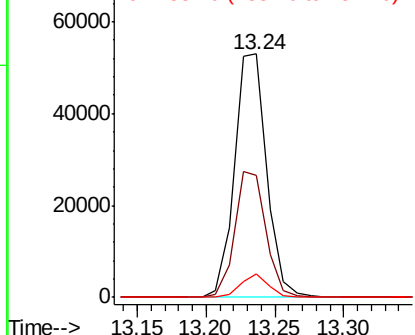
#71
Bromoform
Concen: 18.843 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:173 Resp: 86264
Ion Ratio Lower Upper
173 100
175 50.4 23.7 71.1
254 9.7 5.8 8.6#

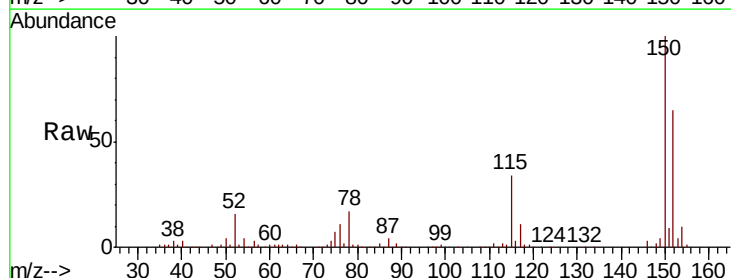


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

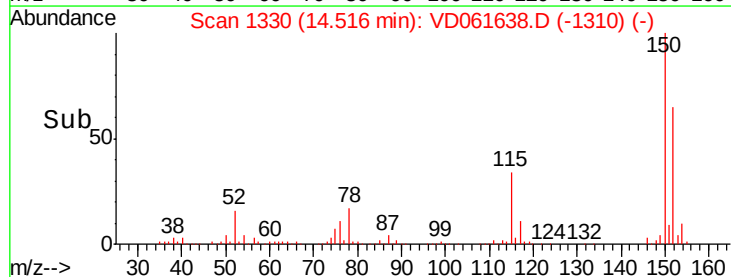
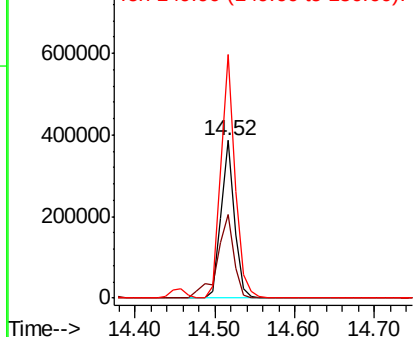


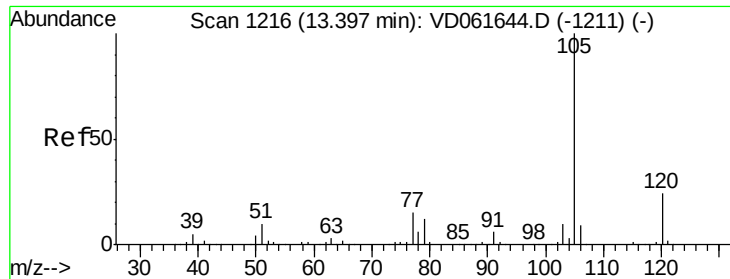
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:152 Resp: 466454
Ion Ratio Lower Upper
152 100
115 53.0 26.4 79.2
150 154.3 0.0 320.6



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

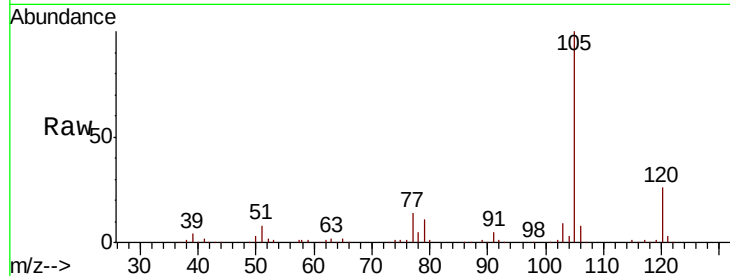




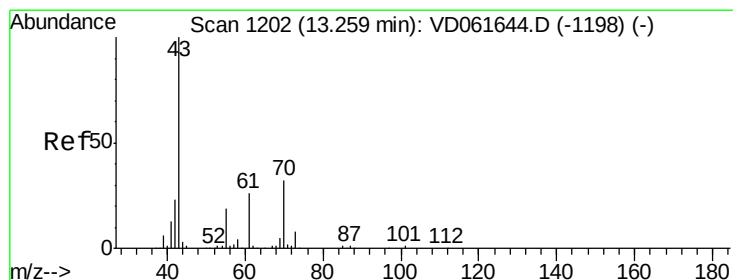
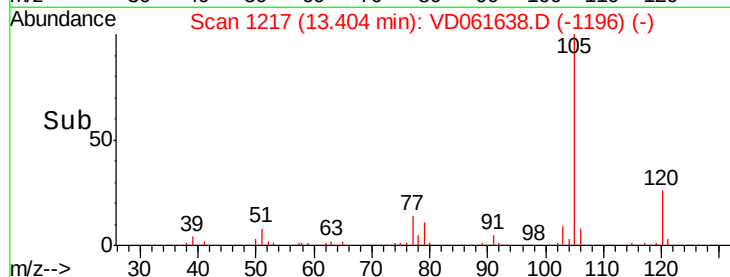
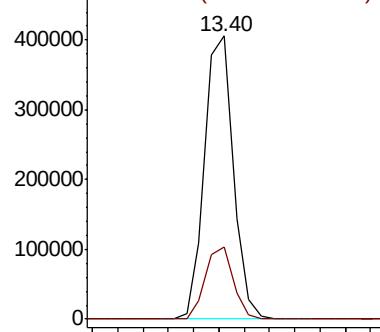
#73
Isopropylbenzene
Concen: 20.340 ug/l
RT: 13.40 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:105 Resp: 638568
Ion Ratio Lower Upper
105 100
120 25.7 12.2 36.4

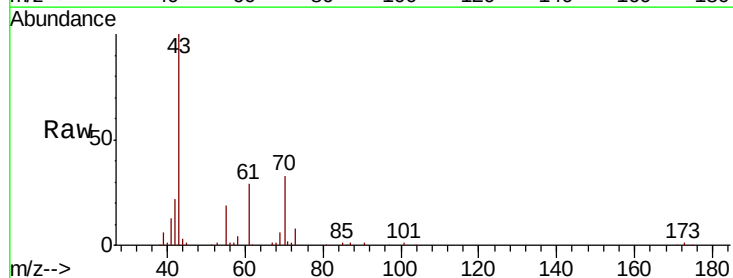


Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V

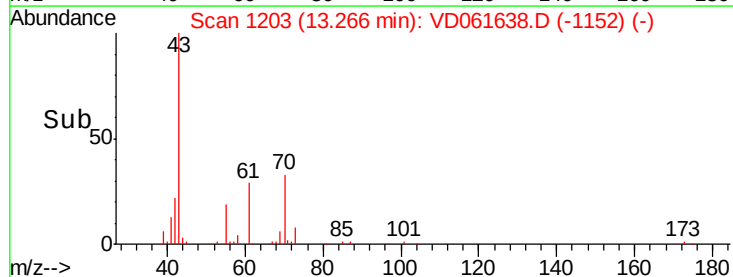
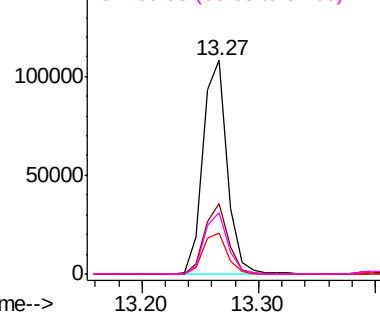


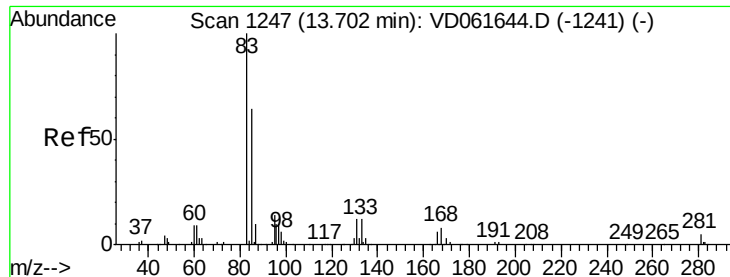
#74
N-ethyl acetate
Concen: 18.272 ug/l
RT: 13.27 min Scan# 1203
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion: 43 Resp: 155035
Ion Ratio Lower Upper
43 100
70 33.1 25.4 38.2
55 19.5 15.0 22.4
61 28.6 20.9 31.3



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 17.986 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampleId :

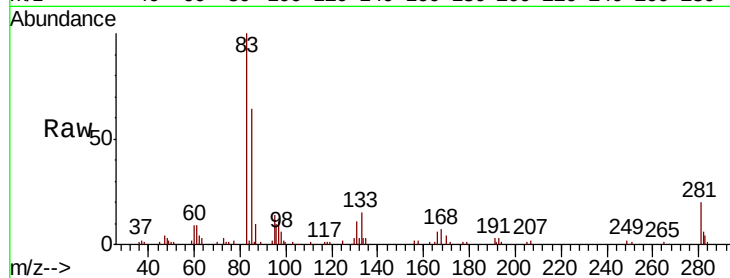
Tot Ion: 83 Resp: 112908

Ion Ratio Lower Upper

83 100

131 11.5 5.9 17.6

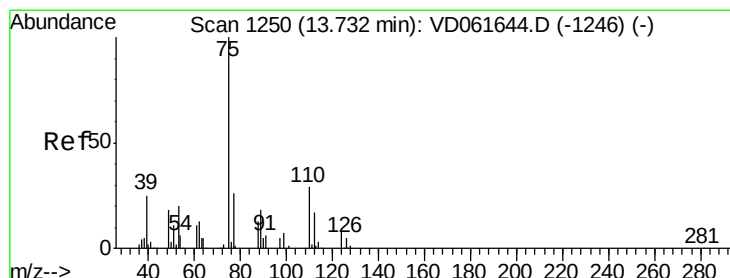
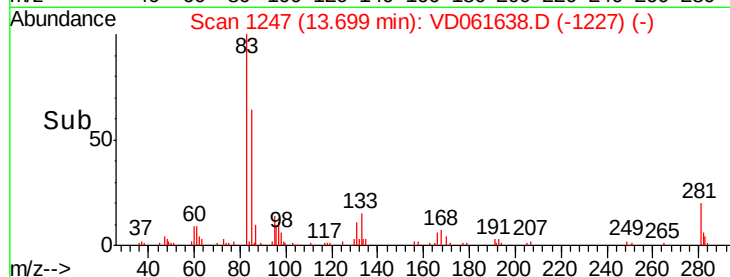
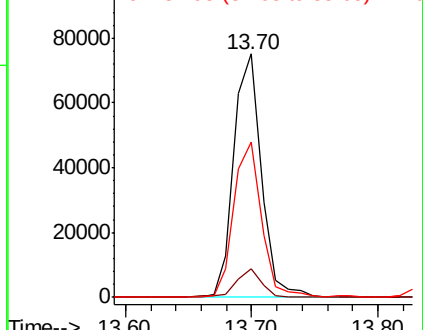
85 63.6 32.0 96.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 17.676 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD061638.D

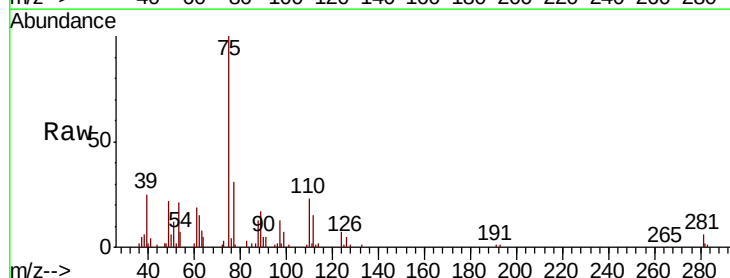
Acq: 6 Apr 2019 12:35

Tgt Ion: 75 Resp: 110641

Ion Ratio Lower Upper

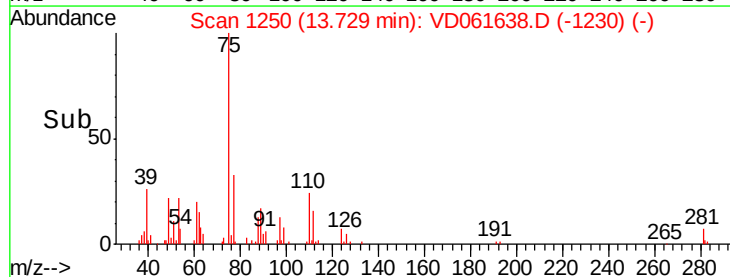
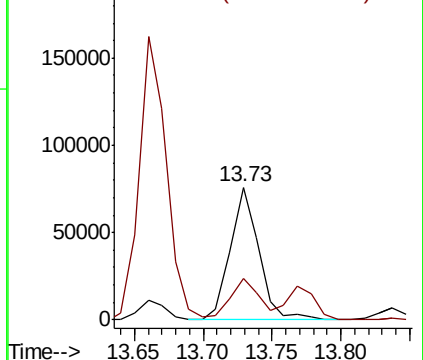
75 100

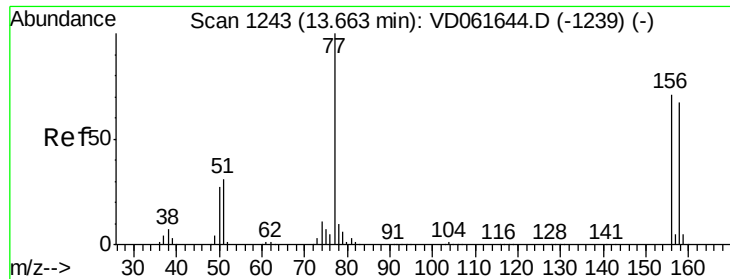
77 31.4 15.7 47.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.363 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampled :

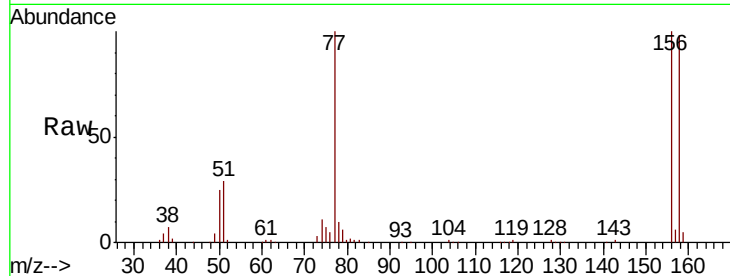
Tot Ion:156 Resp: 178097

Ion Ratio Lower Upper

156 100

77 100.1 70.3 210.8

158 98.5 47.4 142.2



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

200000

150000

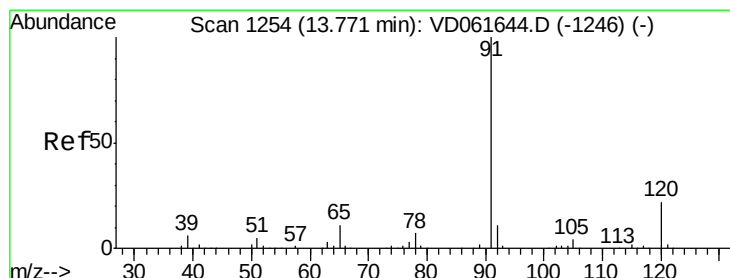
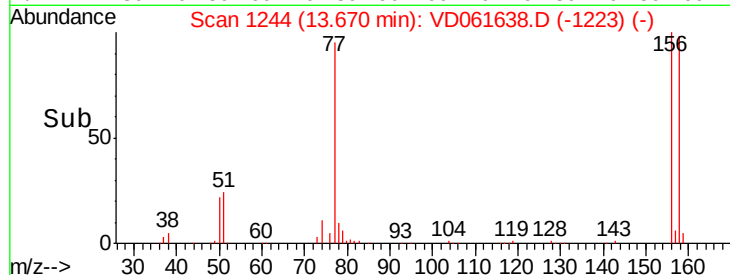
100000

50000

0

13.60 13.65 13.70 13.75

Time-->



#78

n-propylbenzene

Concen: 19.549 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VD061638.D

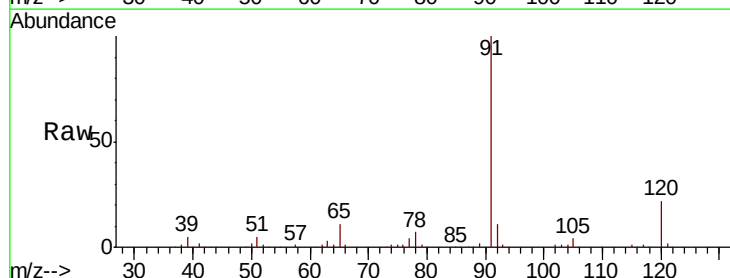
Acq: 6 Apr 2019 12:35

Tgt Ion: 91 Resp: 721938

Ion Ratio Lower Upper

91 100

120 21.7 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

600000

500000

400000

300000

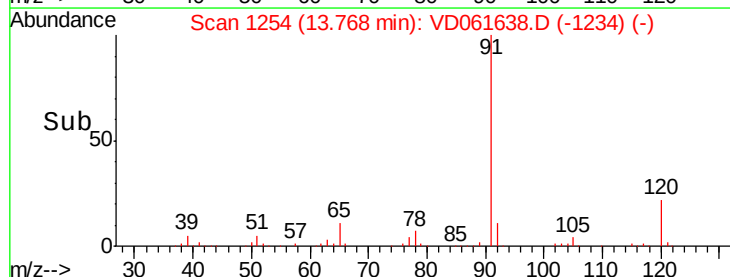
200000

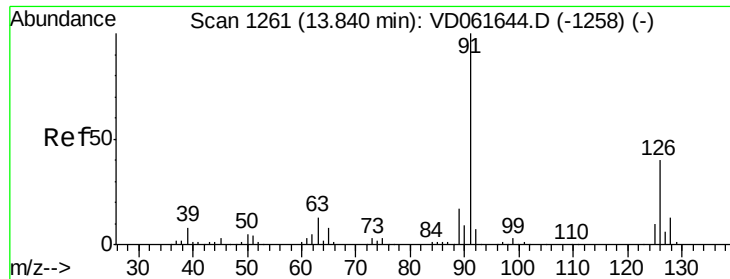
100000

0

13.70 13.80

Time-->





#79

2-Chlorotoluene

Concen: 18.004 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

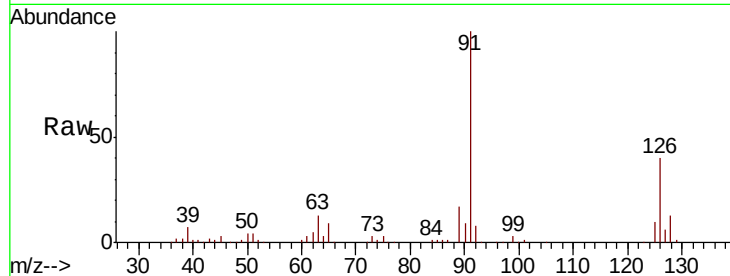
ClientSampled :

Tot Ion: 91 Resp: 380186

Ion Ratio Lower Upper

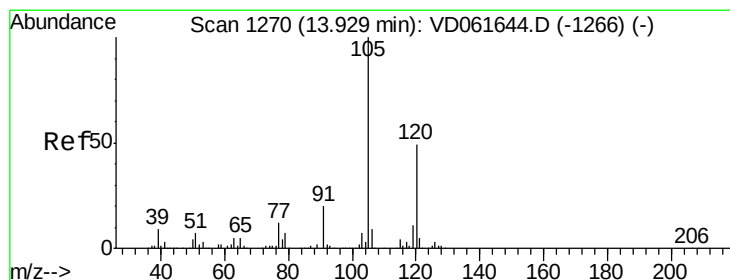
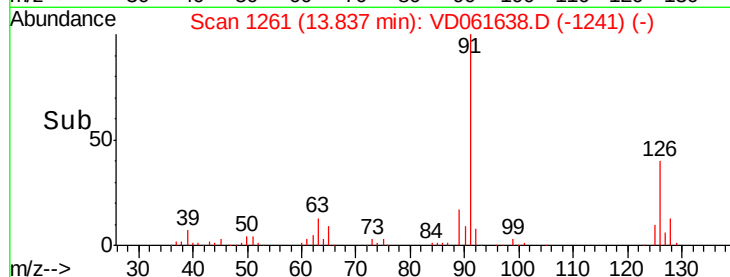
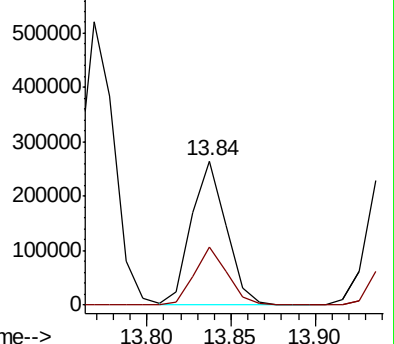
91 100

126 40.0 20.0 59.9



Abundance Ion 91.00 (90.70 to 91.70): VD061644.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD061644.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.032 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD061638.D

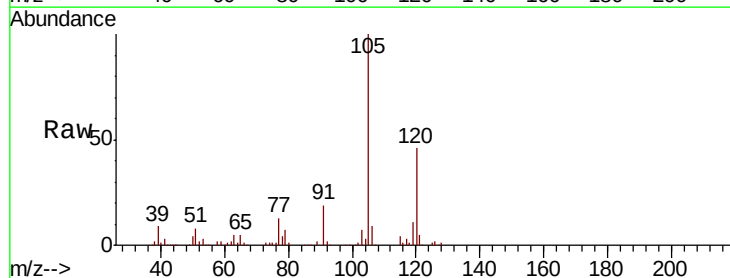
Acq: 6 Apr 2019 12:35

Tgt Ion:105 Resp: 493562

Ion Ratio Lower Upper

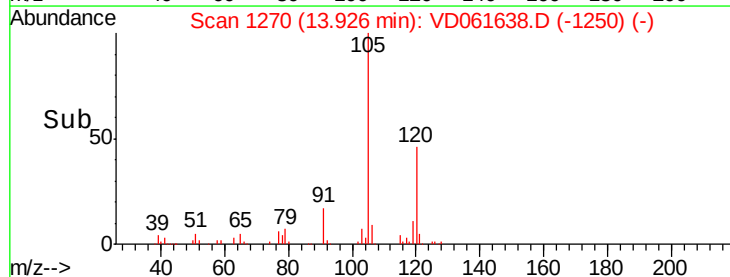
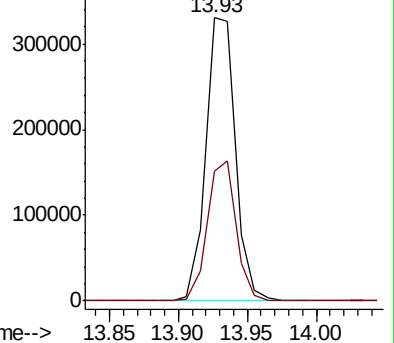
105 100

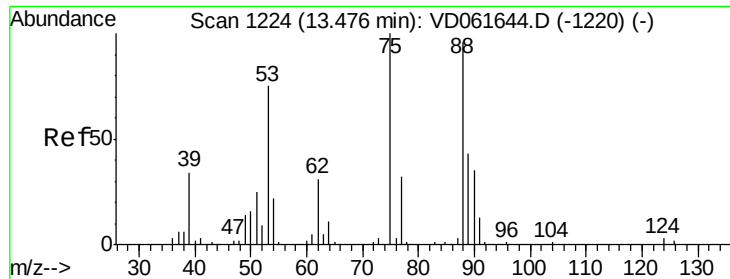
120 46.0 24.4 73.2



Abundance Ion 105.05 (104.75 to 105.75): VD061644.D (-1266) (-)

Ion 120.05 (119.75 to 120.75): VD061644.D (-1266) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.999 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampleId :

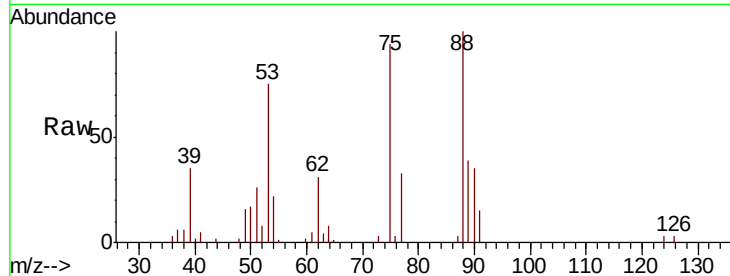
Tot Ion: 75 Resp: 34869

Ion Ratio Lower Upper

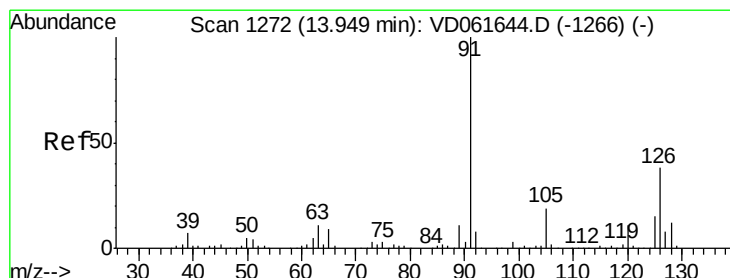
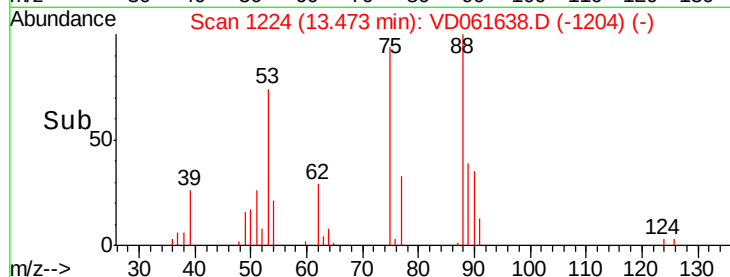
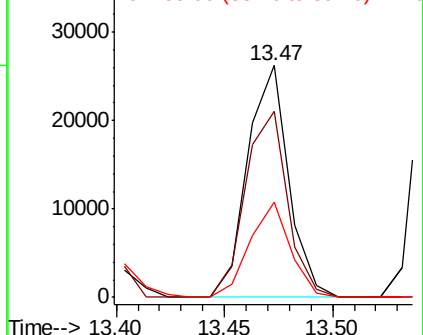
75 100

53 80.1 60.2 90.2

89 41.3 34.2 51.2



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 20.215 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD061638.D

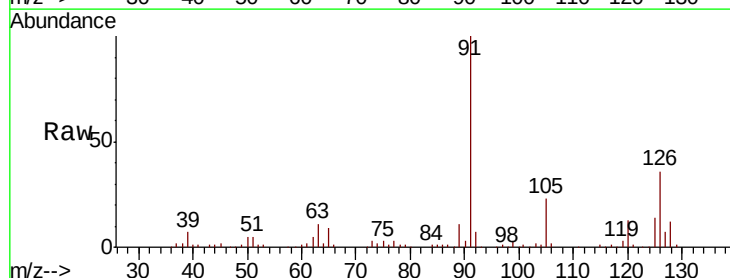
Acq: 6 Apr 2019 12:35

Tgt Ion: 91 Resp: 466420

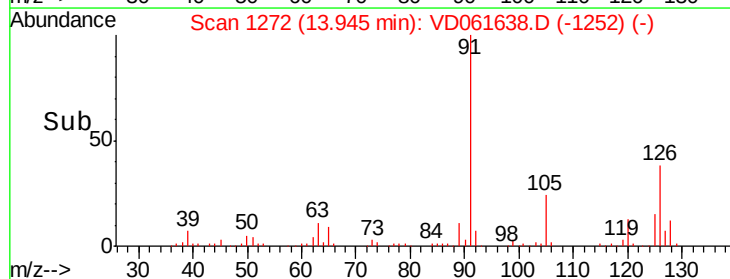
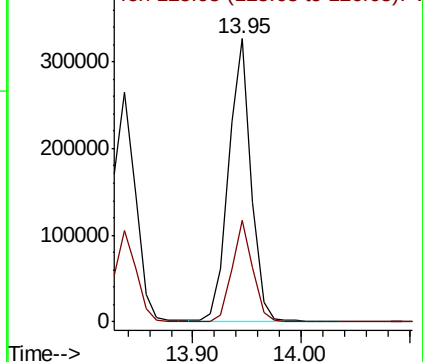
Ion Ratio Lower Upper

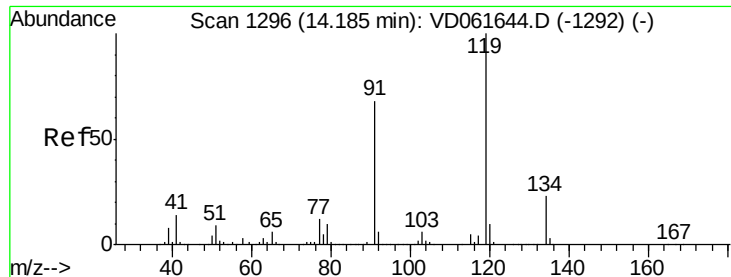
91 100

126 36.0 19.0 57.0



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

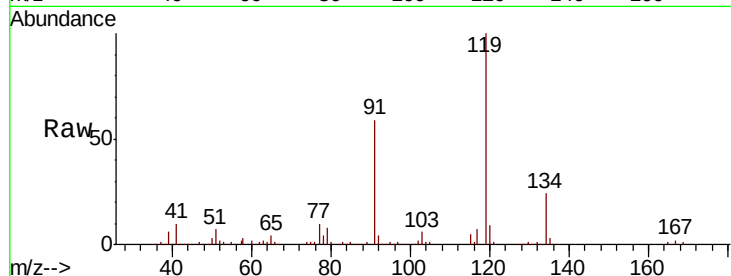




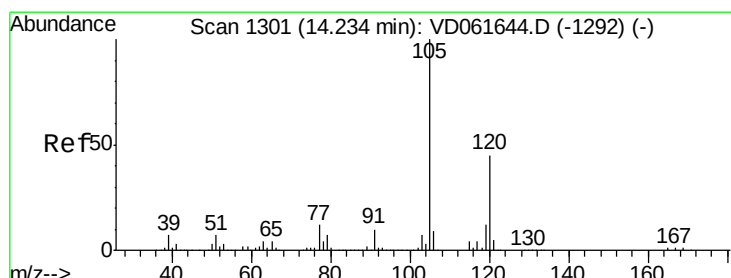
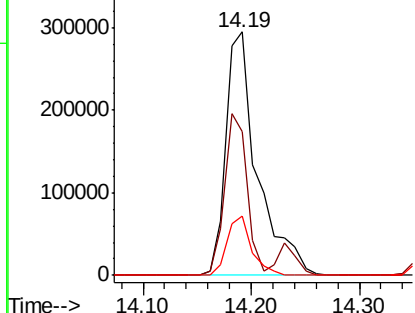
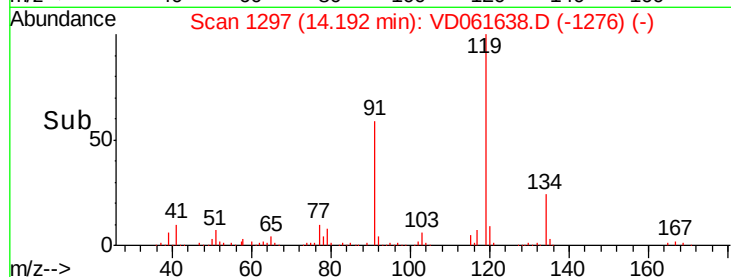
#83
tert-Butylbenzene
Concen: 20.277 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:119 Resp: 597720
Ion Ratio Lower Upper
119 100
91 59.2 33.9 101.6
134 24.2 11.6 34.8

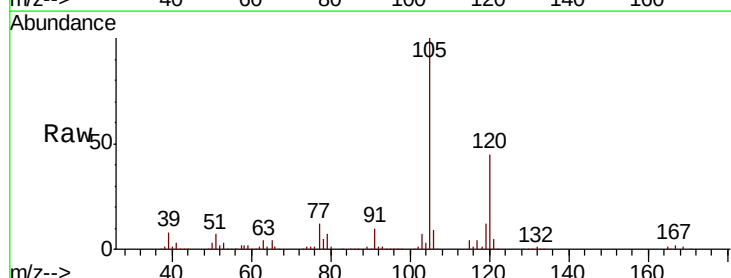


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

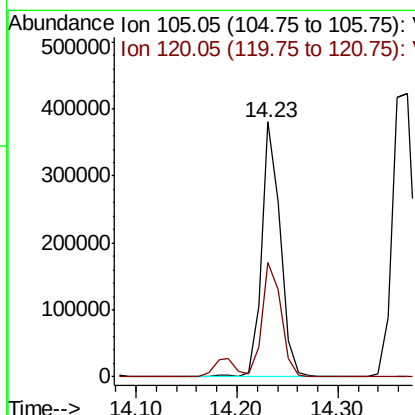
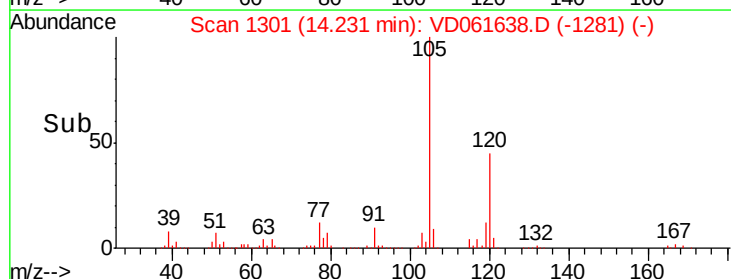


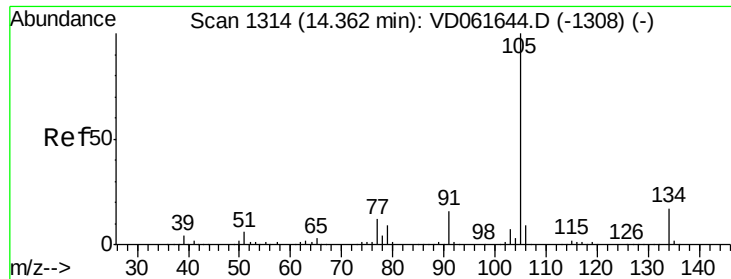
#84
1,2,4-Trimethylbenzene
Concen: 19.289 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:105 Resp: 488380
Ion Ratio Lower Upper
105 100
120 45.1 22.6 67.8



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 20.004 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.01 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

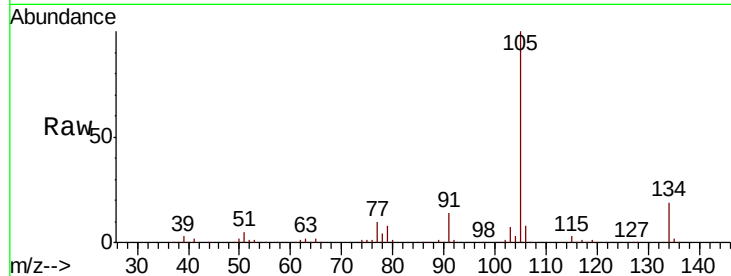
ClientSampleID :

Tot Ion:105 Resp: 629804

Ion Ratio Lower Upper

105 100

134 18.9 8.6 25.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

400000

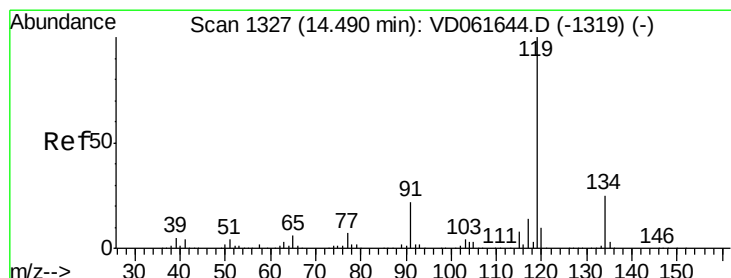
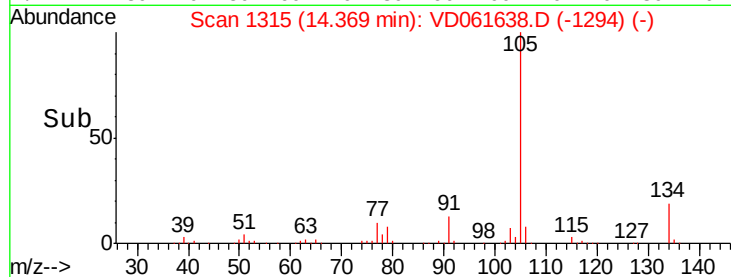
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.113 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

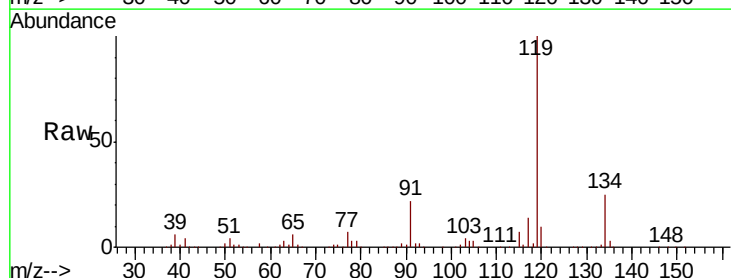
Tgt Ion:119 Resp: 584195

Ion Ratio Lower Upper

119 100

134 24.7 12.5 37.5

91 22.0 11.0 33.0



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.49

600000

500000

400000

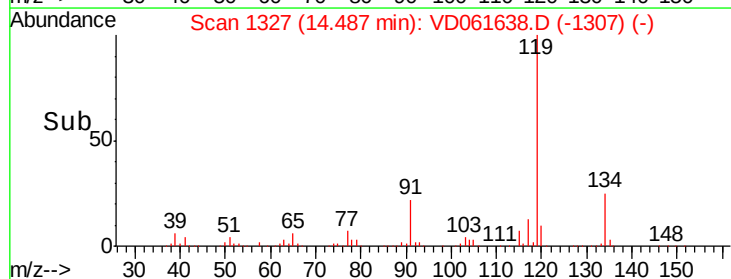
300000

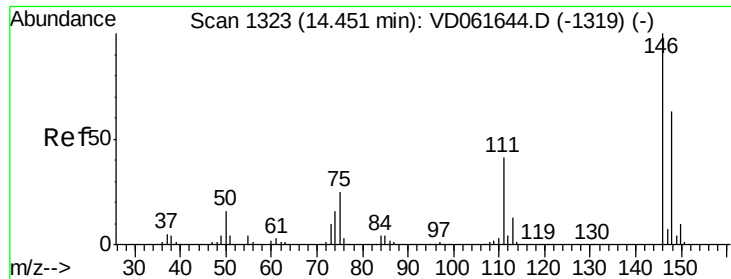
200000

100000

0

Time-->

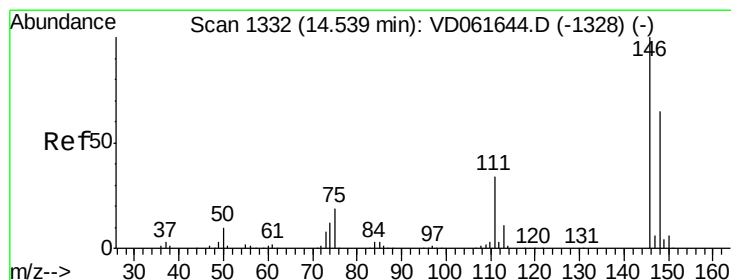
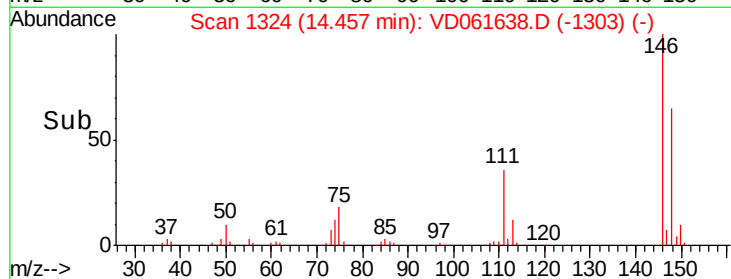
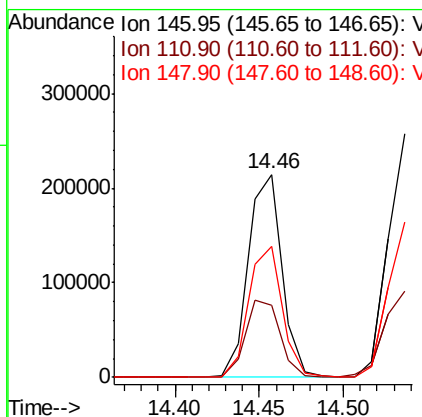
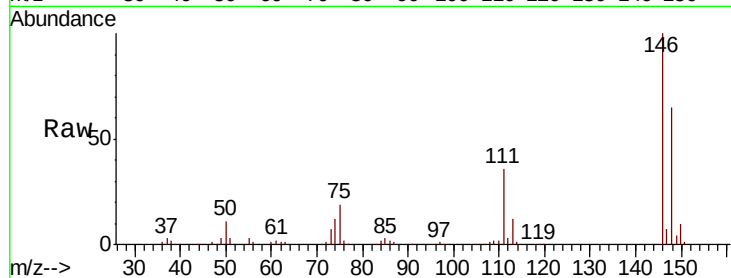




#87
 1,3-Dichlorobenzene
 Concen: 19.053 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

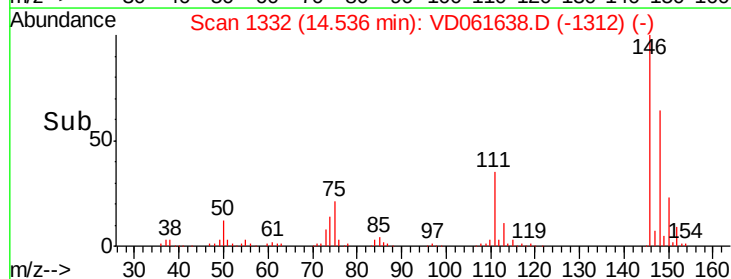
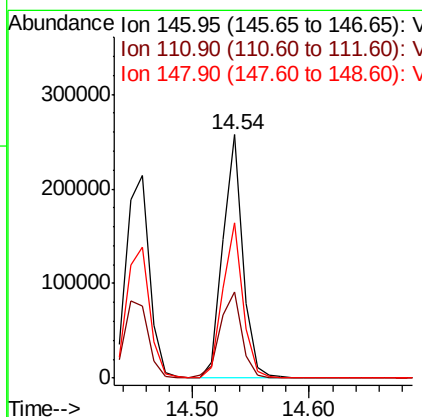
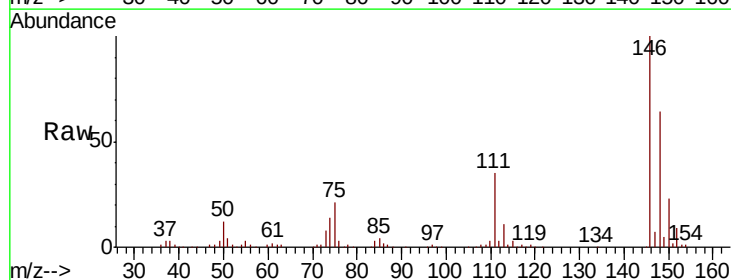
Instrument :
 MSVOA_D
 ClientSampleId :

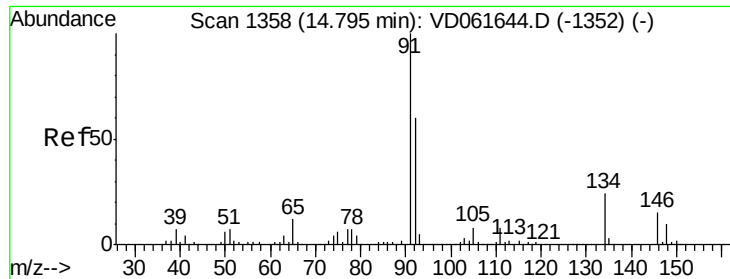
Tot Ion:146 Resp: 298446
 Ion Ratio Lower Upper
 146 100
 111 35.7 20.3 61.0
 148 64.5 31.7 95.1



#88
 1,4-Dichlorobenzene
 Concen: 19.619 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion:146 Resp: 304395
 Ion Ratio Lower Upper
 146 100
 111 35.1 17.1 51.2
 148 63.7 32.6 97.7





#89

n-Butylbenzene

Concen: 20.264 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD061638.D

Acq: 6 Apr 2019 12:35

Instrument :

MSVOA_D

ClientSampled :

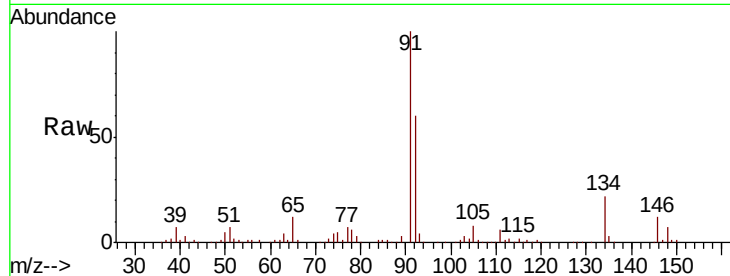
Tot Ion: 91 Resp: 505295

Ion Ratio Lower Upper

91 100

92 60.4 29.8 89.4

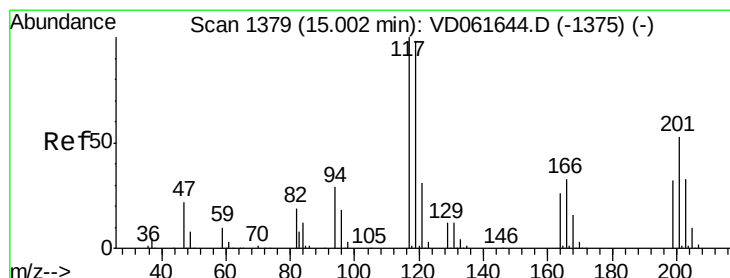
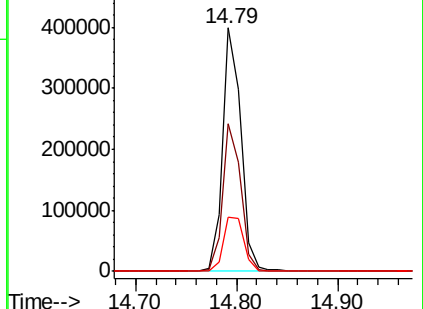
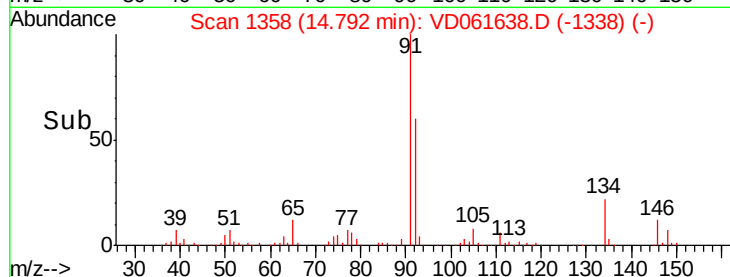
134 22.2 12.2 36.4



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



#90

Hexachloroethane

Concen: 19.404 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VD061638.D

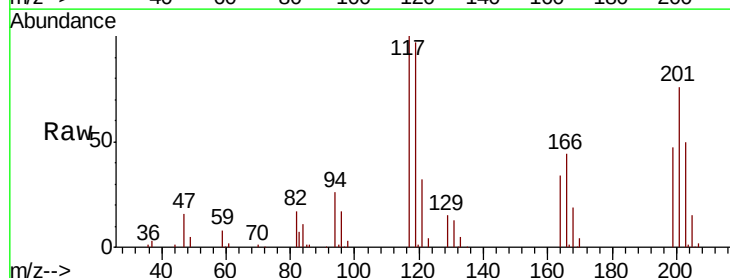
Acq: 6 Apr 2019 12:35

Tgt Ion: 117 Resp: 145479

Ion Ratio Lower Upper

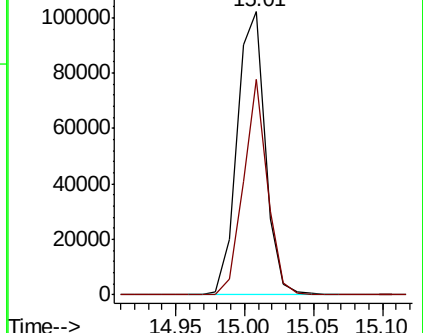
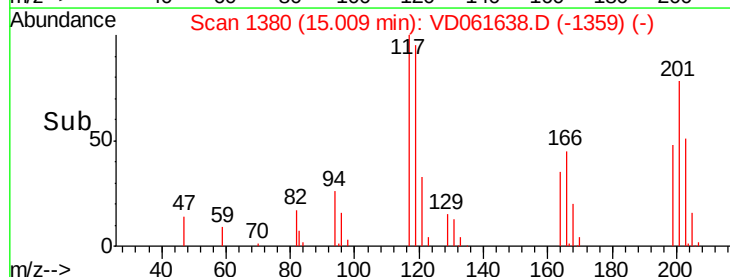
117 100

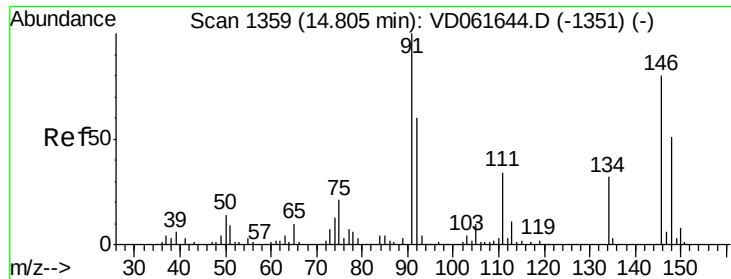
201 76.3 26.3 78.8



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

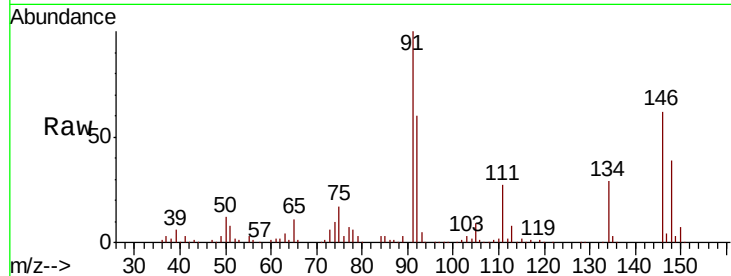




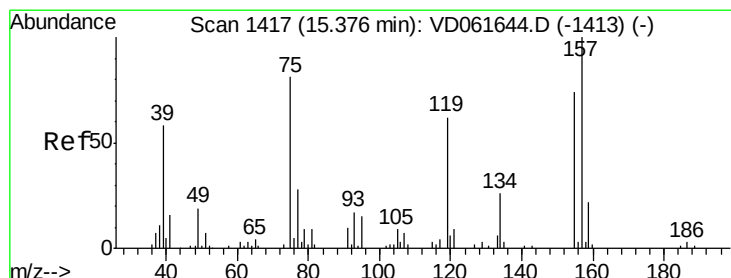
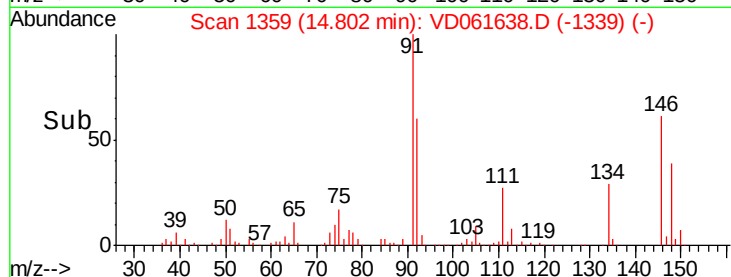
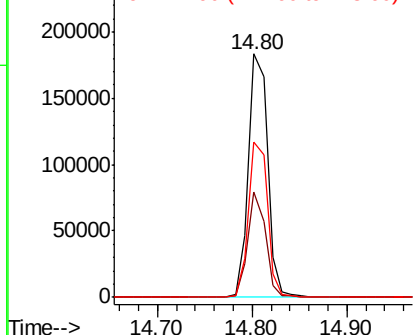
#91
 1,2-Dichlorobenzene
 Concen: 20.081 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 257941
 Ion Ratio Lower Upper
 146 100
 111 43.3 21.1 63.3
 148 63.9 31.7 95.1

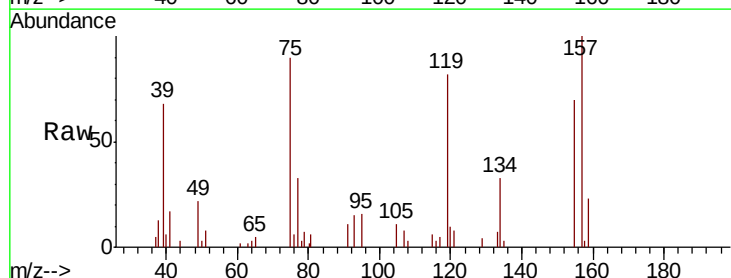


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

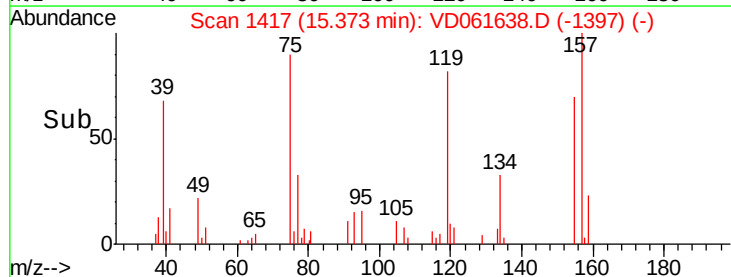
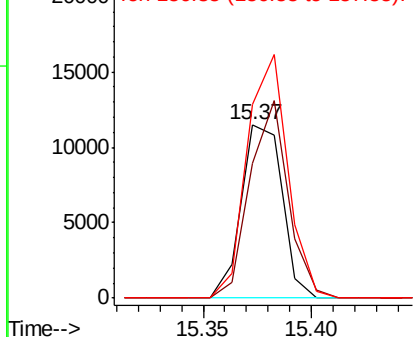


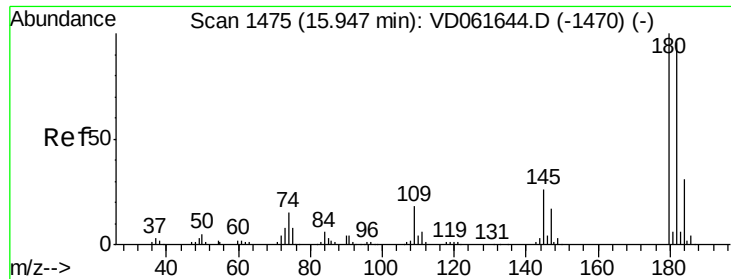
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.490 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion: 75 Resp: 15308
 Ion Ratio Lower Upper
 75 100
 155 77.8 45.6 136.7
 157 111.6 61.4 184.2



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

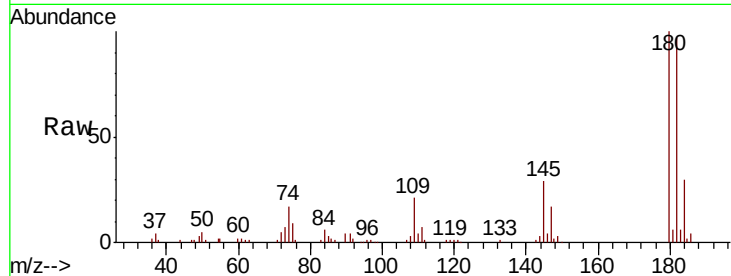




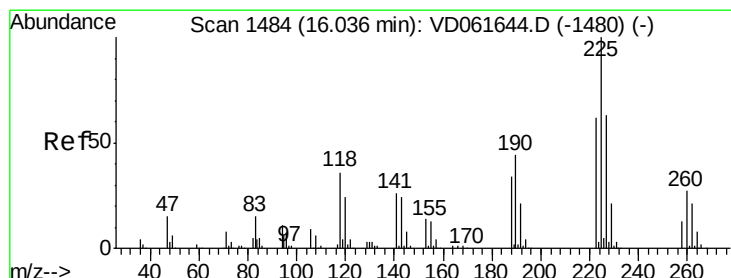
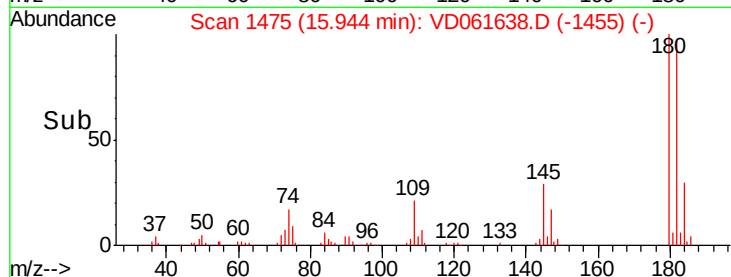
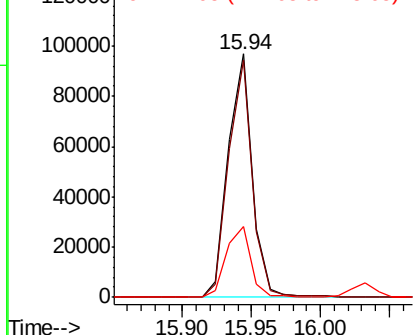
#93
 1,2,4-Trichlorobenzene
 Concen: 18.101 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 117626
 Ion Ratio Lower Upper
 180 100
 182 97.3 47.8 143.3
 145 29.2 13.3 39.8

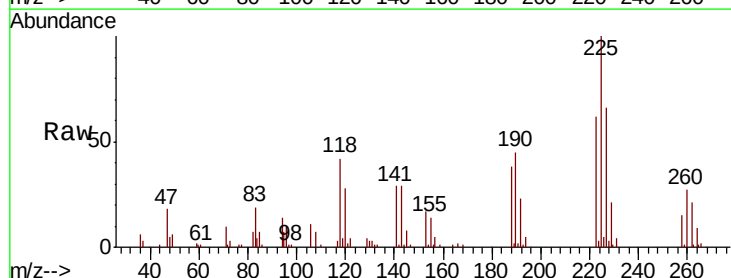


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

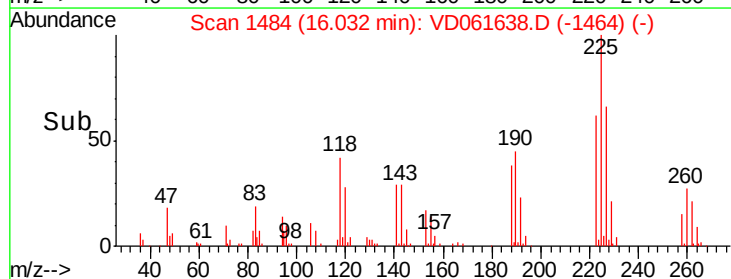
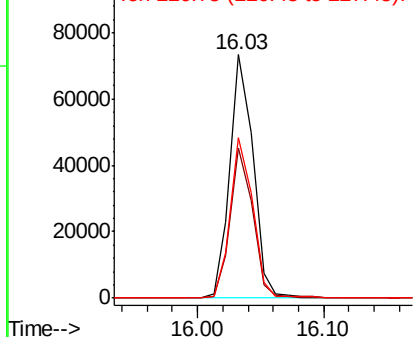


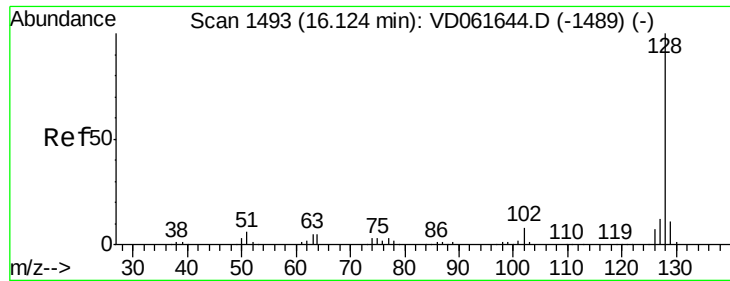
#94
 Hexachlorobutadiene
 Concen: 18.661 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD061638.D
 Acq: 6 Apr 2019 12:35

Tgt Ion:225 Resp: 93309
 Ion Ratio Lower Upper
 225 100
 223 61.9 30.8 92.3
 227 65.8 31.5 94.5



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

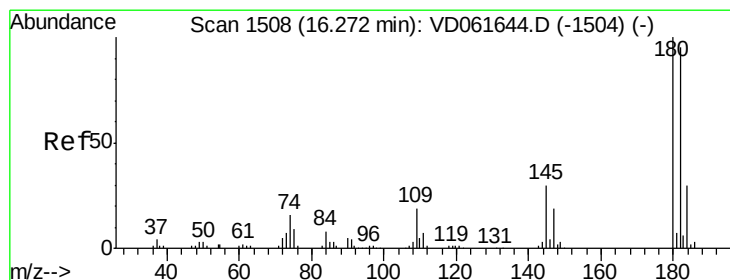
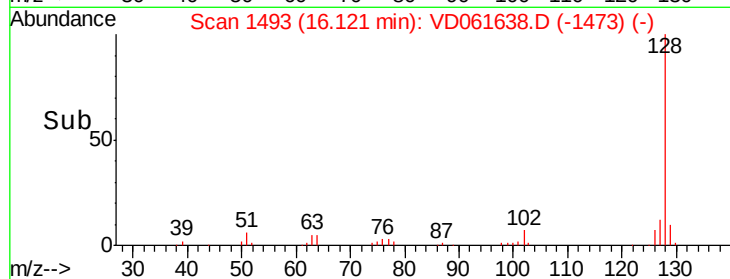
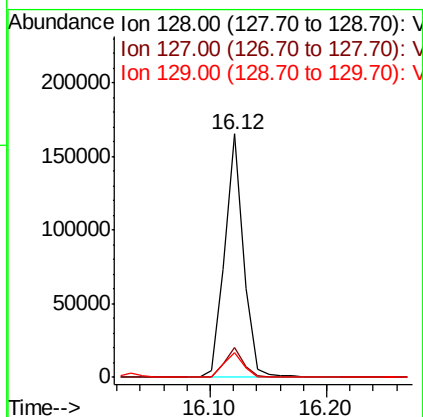
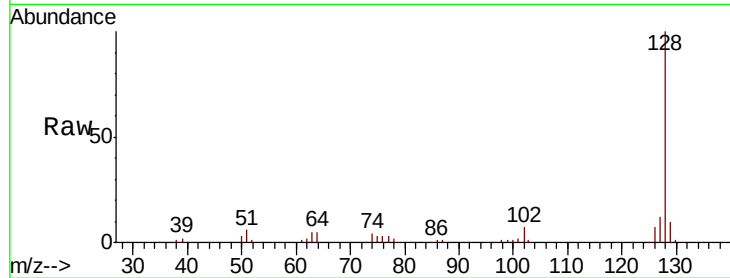




#95
Naphthalene
Concen: 18.097 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 185475
Ion Ratio Lower Upper
128 100
127 12.1 9.4 14.2
129 10.2 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 17.946 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD061638.D
Acq: 6 Apr 2019 12:35

Tgt Ion:180 Resp: 57742
Ion Ratio Lower Upper
180 100
182 95.2 47.3 142.0
145 31.3 15.1 45.3

