

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121018\
 Data File : VD060515.D
 Acq On : 10 Dec 2018 10:17
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 11 06:44:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1744797	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	2484651	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1960749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	949950	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	624026	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
35) Dibromofluoromethane	6.33	113	926861	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
50) Toluene-d8	9.45	98	2754268	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	
62) 4-Bromofluorobenzene	12.42	95	949434	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	812320	48.800	ug/l	100
3) Chloromethane	1.78	50	808391	45.094	ug/l	97
4) Vinyl Chloride	1.87	62	695598	48.618	ug/l	99
5) Bromomethane	2.17	94	174660	48.797	ug/l	95
6) Chloroethane	2.28	64	208284	43.799	ug/l	99
7) Trichlorofluoromethane	2.53	101	763376	46.209	ug/l	100
8) Diethyl Ether	2.85	74	131928	46.234	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.11	101	499525	46.602	ug/l	99
10) Methyl Iodide	3.26	142	581540	46.414	ug/l	97
11) Tert butyl alcohol	3.98	59	134842	268.375	ug/l	97
12) 1,1-Dichloroethene	3.09	96	405545	46.502	ug/l	99
13) Acrolein	3.00	56	194744	354.722	ug/l	93
14) Allyl chloride	3.56	41	768064	46.419	ug/l	97
15) Acrylonitrile	4.10	53	707781	248.093	ug/l	96
16) Acetone	3.17	43	555423	280.186	ug/l	95
17) Carbon Disulfide	3.33	76	1314921	46.417	ug/l	99
18) Methyl Acetate	3.58	43	205642	43.649	ug/l	98
19) Methyl tert-butyl Ether	4.14	73	1233803	51.015	ug/l	100
20) Methylene Chloride	3.73	84	889381	48.751	ug/l	99
21) trans-1,2-Dichloroethene	4.12	96	958583	50.530	ug/l	97
22) Diisopropyl ether	4.86	45	2891500	48.672	ug/l	98
23) Vinyl Acetate	4.82	43	7227757	245.557	ug/l	99
24) 1,1-Dichloroethane	4.77	63	1539222	49.873	ug/l	99
25) 2-Butanone	5.63	43	1050373	269.322	ug/l	98
26) 2,2-Dichloropropane	5.59	77	1215363	50.976	ug/l	100
27) cis-1,2-Dichloroethene	5.60	96	962679	49.909	ug/l	99
28) Bromochloromethane	5.94	49	664892	48.632	ug/l	100
29) Tetrahydrofuran	5.96	42	514543	232.981	ug/l	100
30) Chloroform	6.10	83	1518547	48.839	ug/l	99
31) Cyclohexane	6.37	56	1383407	52.620	ug/l	99
32) 1,1,1-Trichloroethane	6.30	97	1307081	51.135	ug/l	98
36) 1,1-Dichloropropene	6.53	75	1173361	48.313	ug/l	98
37) Ethyl Acetate	5.70	43	530067	50.325	ug/l	99
38) Carbon Tetrachloride	6.51	117	1087555	49.879	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	1327212	47.937	ug/l	98
40) Benzene	6.80	78	2987890	48.137	ug/l	100
41) Methacrylonitrile	5.95	41	560488	98.713	ug/l #	76
42) 1,2-Dichloroethane	6.90	62	759667	48.136	ug/l	100
43) Isopropyl Acetate	8.35	43	645690	49.660	ug/l #	97
44) Trichloroethene	7.74	130	928482	50.054	ug/l	99
45) 1,2-Dichloropropane	8.10	63	745608	48.569	ug/l	99
46) Dibromomethane	8.22	93	436666	49.232	ug/l	98
47) Bromodichloromethane	8.50	83	1059388	50.339	ug/l	99
48) Methyl methacrylate	8.25	41	394176	51.236	ug/l	98
49) 1,4-Dioxane	8.23	88	75386	1081.169	ug/l	96
51) 4-Methyl-2-Pentanone	9.34	43	2032491	251.301	ug/l	99
52) Toluene	9.55	92	1885184	48.593	ug/l	100
53) t-1,3-Dichloropropene	9.91	75	869330	50.272	ug/l	99
54) cis-1,3-Dichloropropene	9.11	75	1139839	50.169	ug/l	99
55) 1,1,2-Trichloroethane	10.18	97	512121	47.402	ug/l	99
56) Ethyl methacrylate	10.03	69	508143	51.970	ug/l	99
57) 1,3-Dichloropropane	10.39	76	809258	48.455	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.92	63	1560578	266.747	ug/l	98
59) 2-Hexanone	10.48	43	1589853	281.229	ug/l	98
60) Dibromochloromethane	10.64	129	676817	50.106	ug/l	97
61) 1,2-Dibromoethane	10.76	107	545042	49.504	ug/l	97
64) Tetrachloroethene	10.25	164	856301	49.320	ug/l	97
65) Chlorobenzene	11.31	112	2012774	48.523	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	640383	47.897	ug/l	98
67) Ethyl Benzene	11.43	91	3276875	46.314	ug/l	99
68) m/p-Xylenes	11.57	106	2509372	95.866	ug/l	98
69) o-Xylene	11.93	106	1218642	48.852	ug/l	94
70) Styrene	11.95	104	1975529	49.338	ug/l	97
71) Bromoform	12.12	173	450533	50.509	ug/l	95
73) Isopropylbenzene	12.27	105	3351766	49.861	ug/l	99
74) N-amyl acetate	12.13	43	832913	51.268	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	532133	49.447	ug/l	98
76) 1,2,3-Trichloropropane	12.59	75	537050	49.895	ug/l	99
77) Bromobenzene	12.54	156	880132	49.810	ug/l	92
78) n-propylbenzene	12.64	91	4194347	49.360	ug/l	98
79) 2-Chlorotoluene	12.71	91	2277213	49.387	ug/l	98
80) 1,3,5-Trimethylbenzene	12.79	105	2525018	49.158	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.34	75	157470	52.455	ug/l	98
82) 4-Chlorotoluene	12.81	91	2461711	47.534	ug/l	93
83) tert-Butylbenzene	13.04	119	2913920	50.595	ug/l	94
84) 1,2,4-Trimethylbenzene	13.09	105	2674253	50.281	ug/l	99
85) sec-Butylbenzene	13.22	105	3443665	47.974	ug/l	97
86) p-Isopropyltoluene	13.34	119	2802939	49.259	ug/l	97
87) 1,3-Dichlorobenzene	13.31	146	1562759	48.848	ug/l	96
88) 1,4-Dichlorobenzene	13.39	146	1518654	48.388	ug/l	95
89) n-Butylbenzene	13.64	91	2835253	50.378	ug/l	98
90) Hexachloroethane	13.86	117	731901	51.300	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	1252098	47.890	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.22	75	66941	51.336	ug/l	83

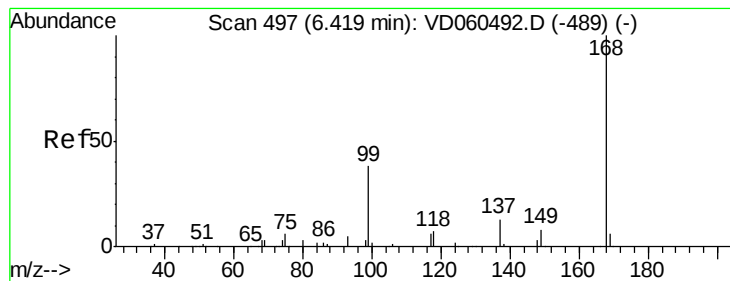
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD121018\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	1034162	50.599	ug/l	96
94) Hexachlorobutadiene	14.88	225	744841	49.394	ug/l	99
95) Naphthalene	14.96	128	1257574	51.721	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	823449	50.564	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

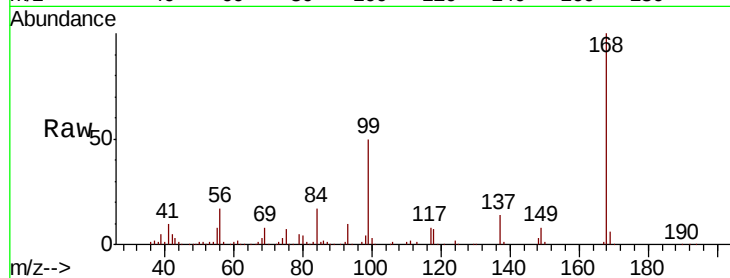
VSTDCCC050

Tot Ion:168 Resp: 1744797

Ion Ratio Lower Upper

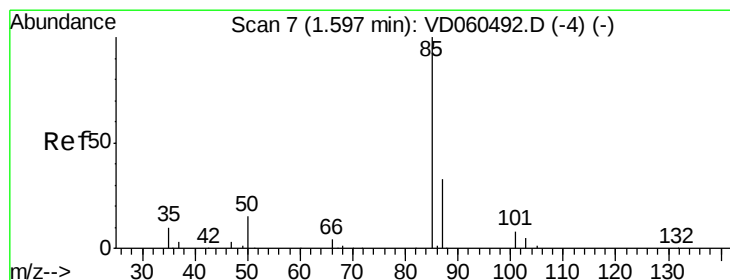
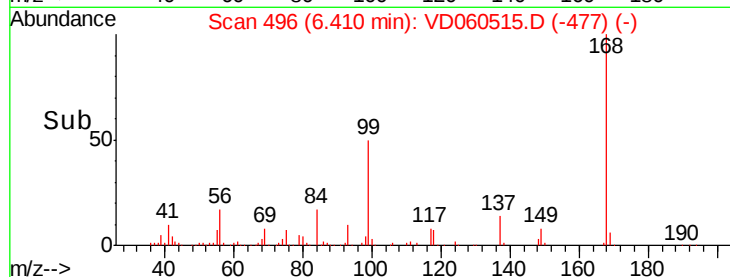
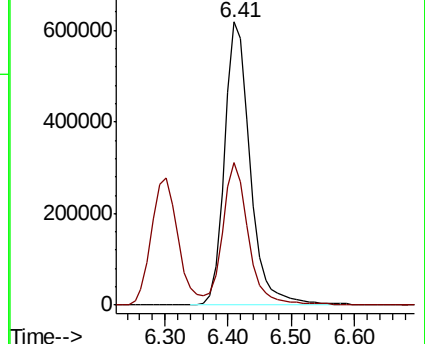
168 100

99 50.5 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 48.800 ug/l

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060515.D

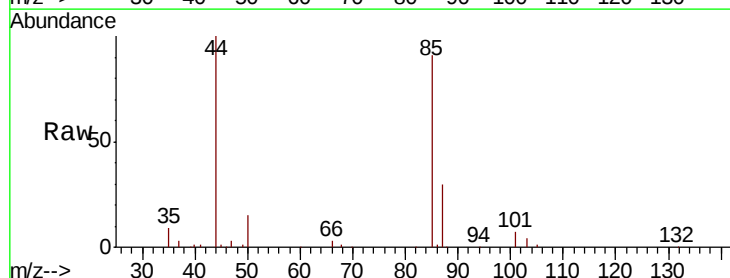
Acq: 10 Dec 2018 10:17

Tgt Ion: 85 Resp: 812320

Ion Ratio Lower Upper

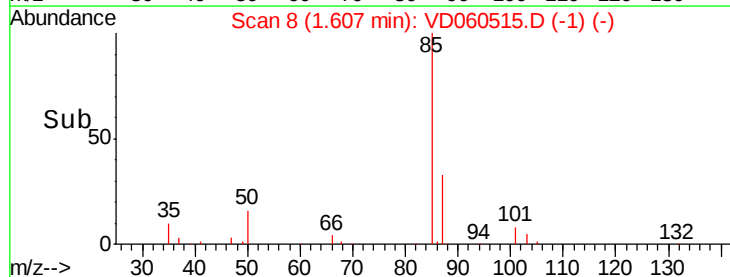
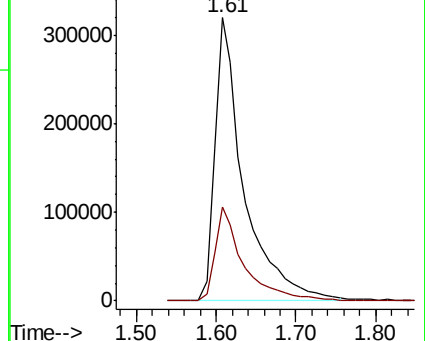
85 100

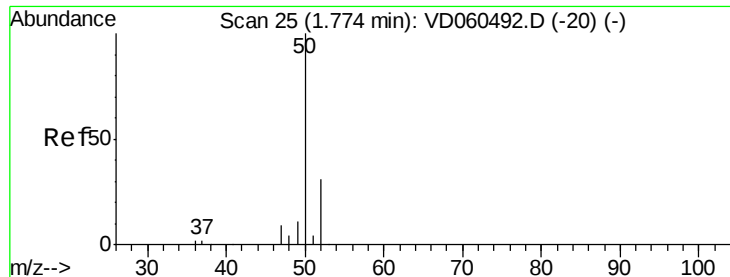
87 33.3 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 45.094 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

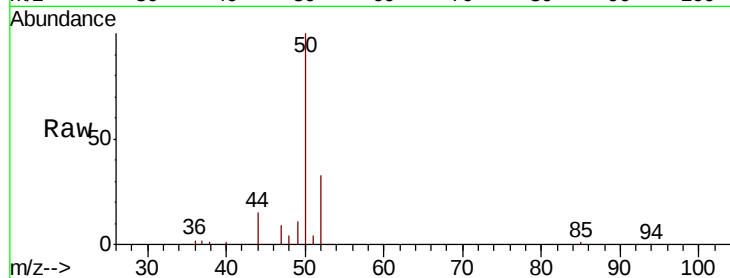
VSTDCCC050

Tot Ion: 50 Resp: 808391

Ion Ratio Lower Upper

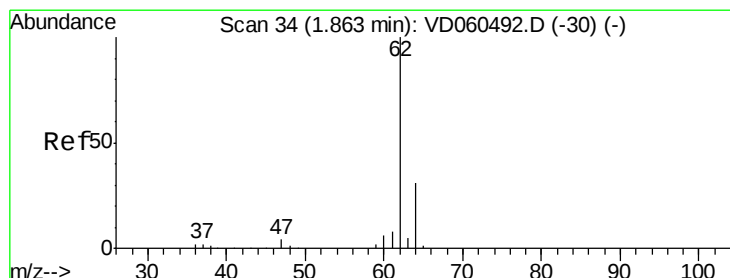
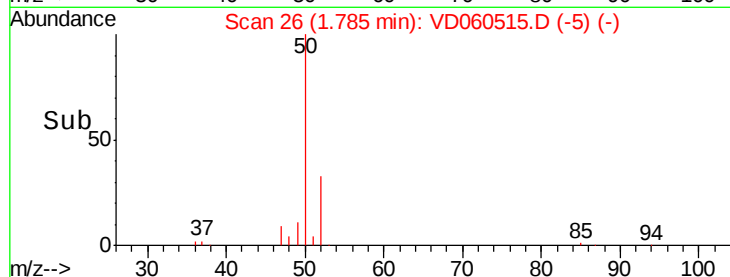
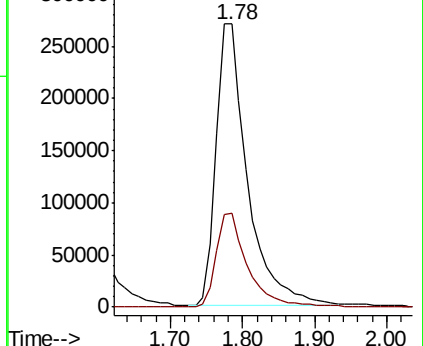
50 100

52 33.1 25.0 37.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.618 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060515.D

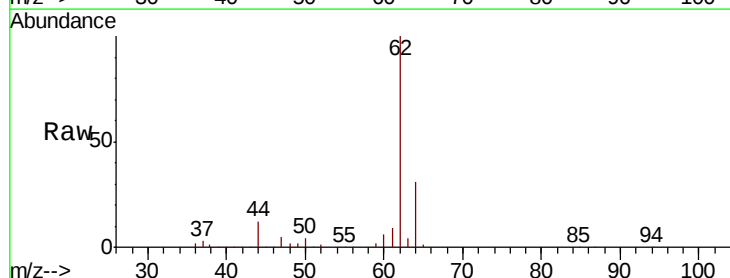
Acq: 10 Dec 2018 10:17

Tgt Ion: 62 Resp: 695598

Ion Ratio Lower Upper

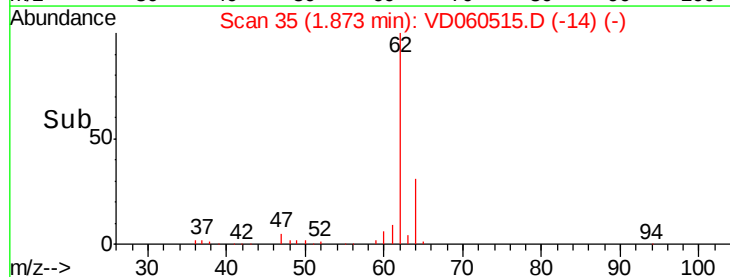
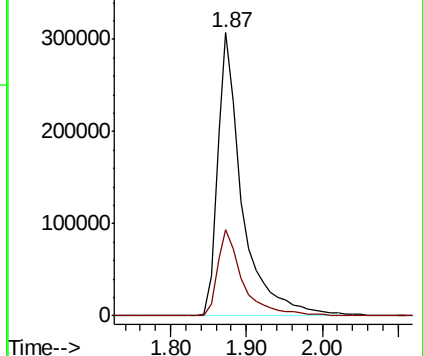
62 100

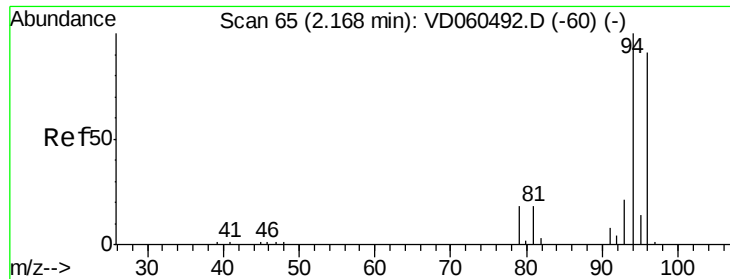
64 30.5 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

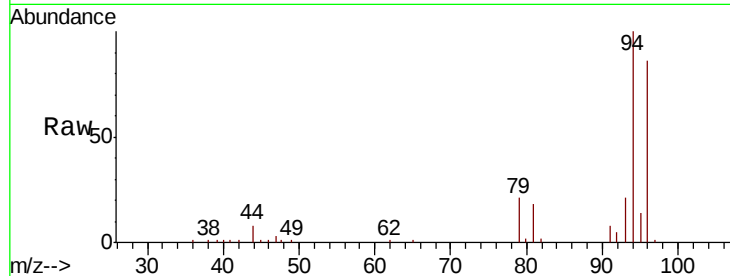




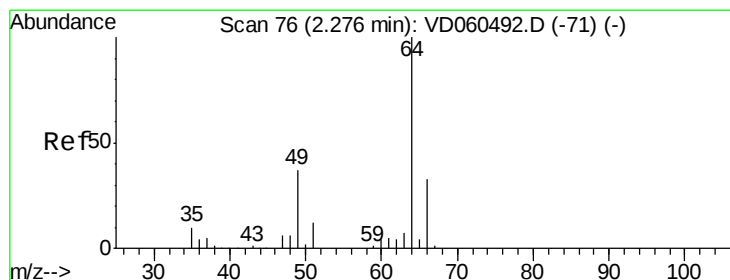
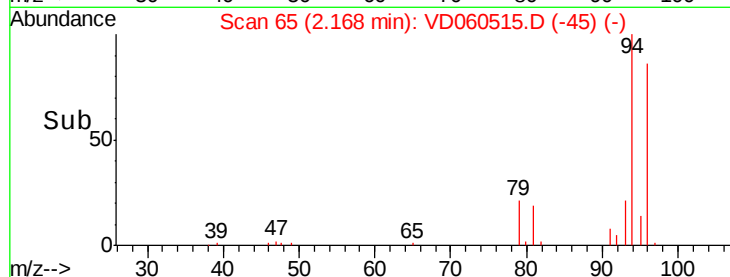
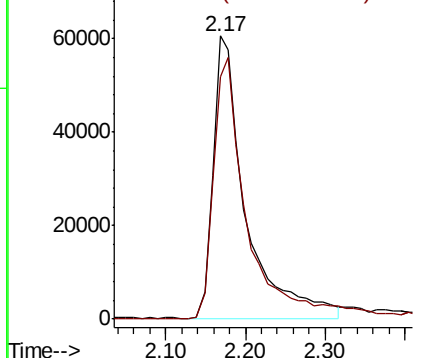
#5
Bromomethane
Concen: 48.797 ug/l
RT: 2.17 min Scan# 65
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 94 Resp: 174660
Ion Ratio Lower Upper
94 100
96 85.5 72.6 108.8

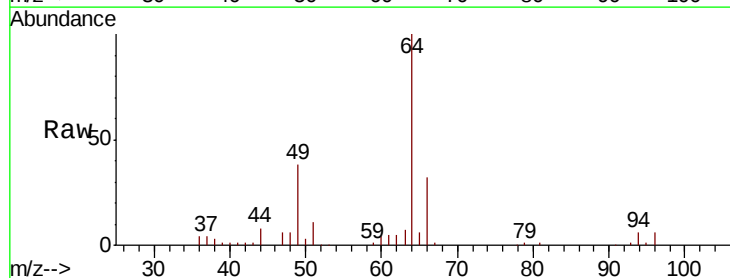


Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC

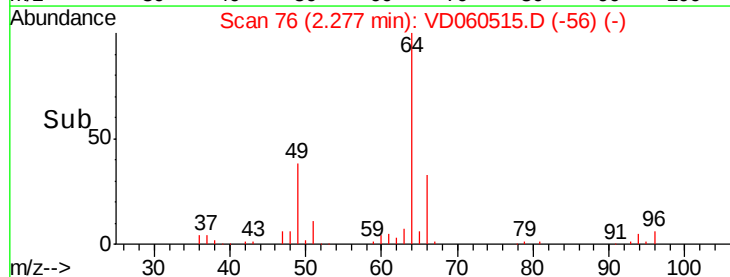
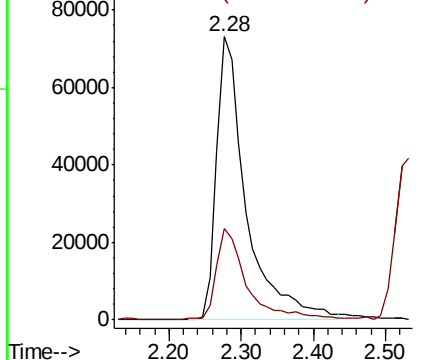


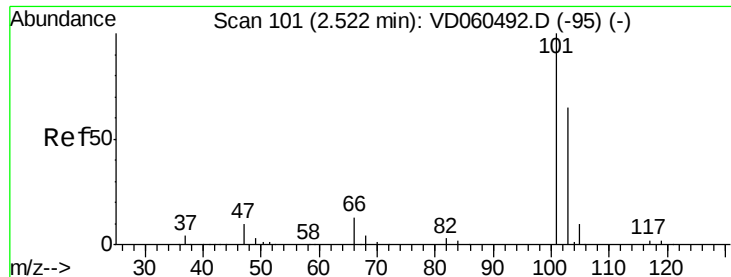
#6
Chloroethane
Concen: 43.799 ug/l
RT: 2.28 min Scan# 76
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 64 Resp: 208284
Ion Ratio Lower Upper
64 100
66 32.4 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



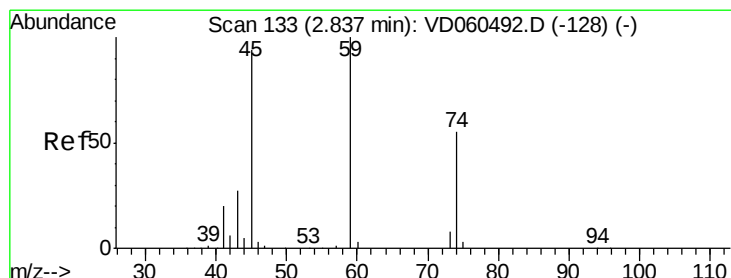
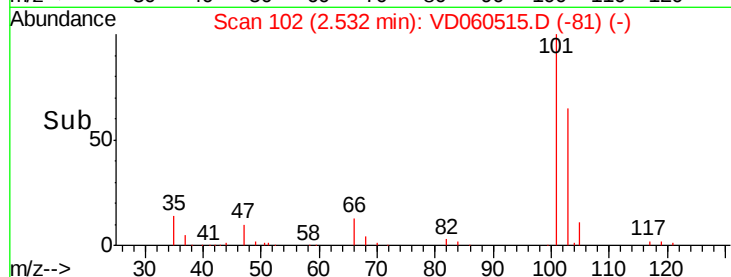
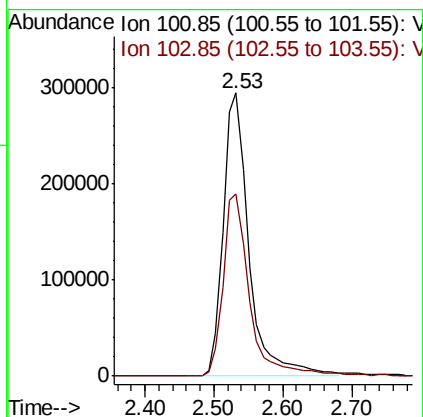
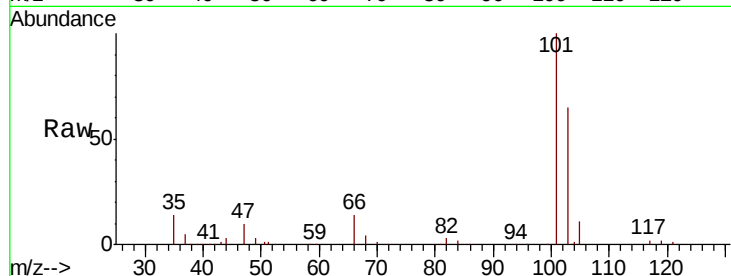


#7

Trichlorofluoromethane
 Concen: 46.209 ug/l
 RT: 2.53 min Scan# 102
 Delta R.T. 0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

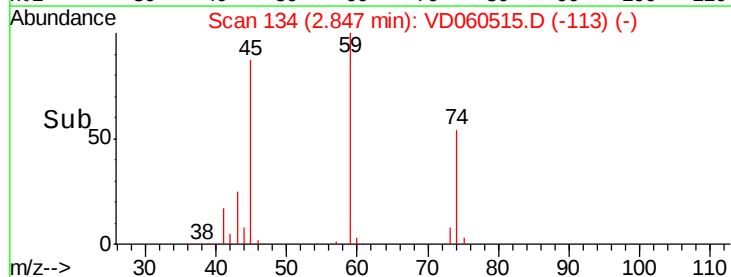
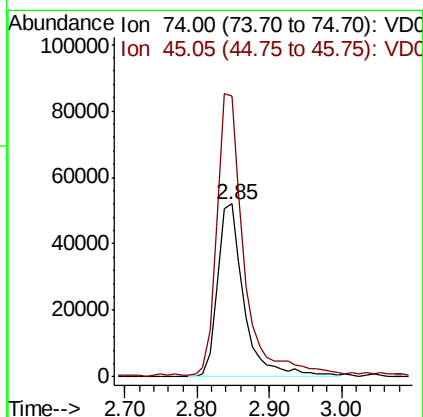
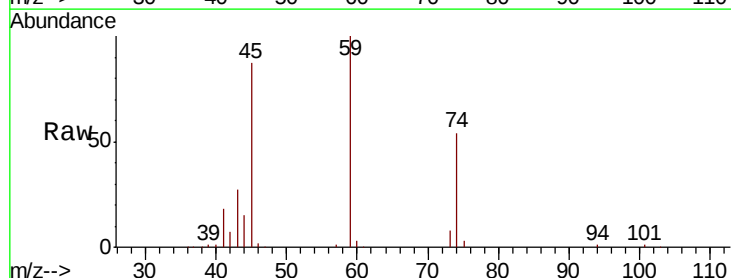
Tot Ion:101 Resp: 763376
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.8

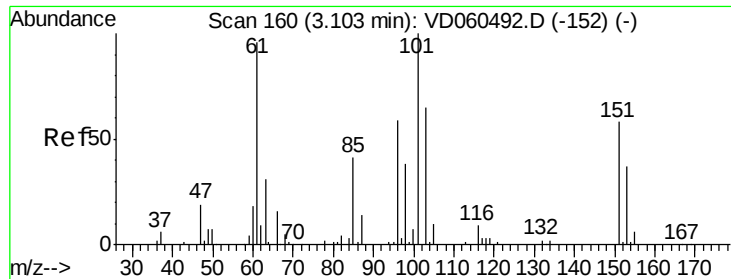


#8

Diethyl Ether
 Concen: 46.234 ug/l
 RT: 2.85 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 74 Resp: 131928
 Ion Ratio Lower Upper
 74 100
 45 162.6 86.0 258.0

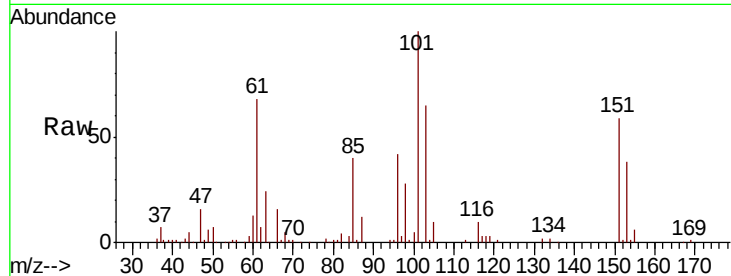




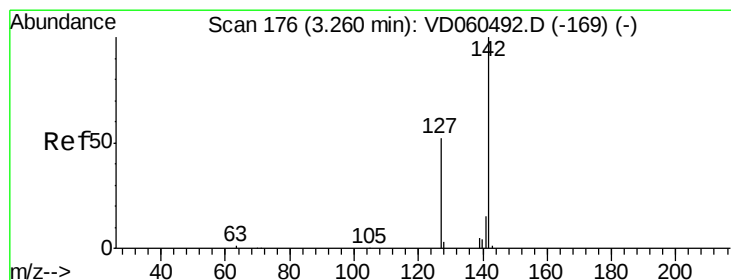
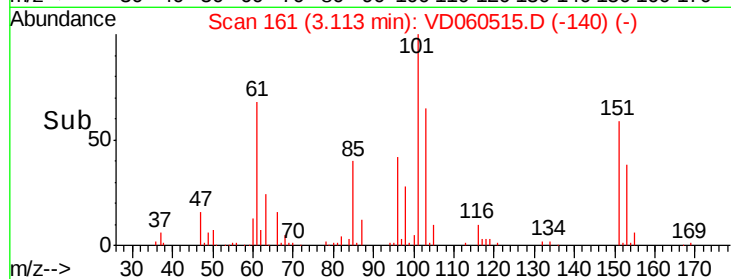
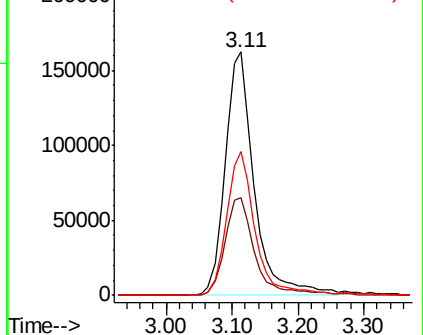
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 46.602 ug/l
 RT: 3.11 min Scan# 161
 Delta R.T. 0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 499525
 Ion Ratio Lower Upper
 101 100
 85 40.3 32.7 49.1
 151 59.3 46.6 69.8

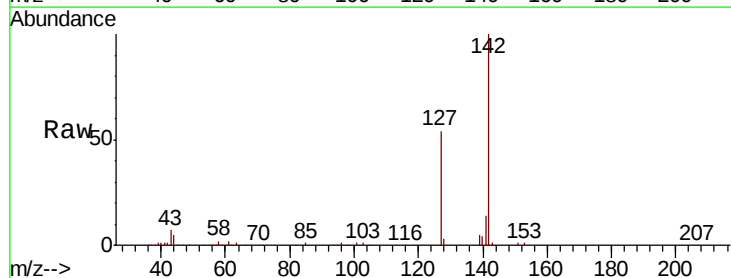


Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 84.95 (84.65 to 85.65): V
 Ion 150.90 (150.60 to 151.60): V

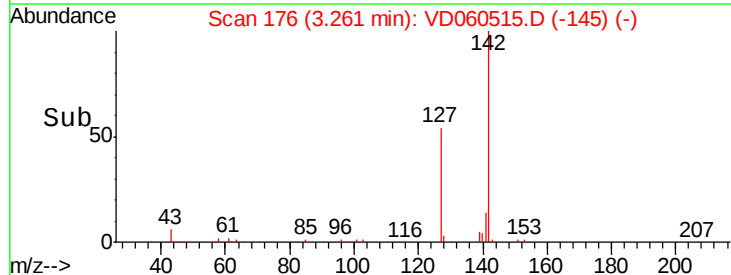
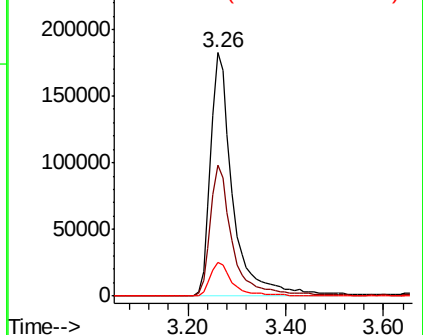


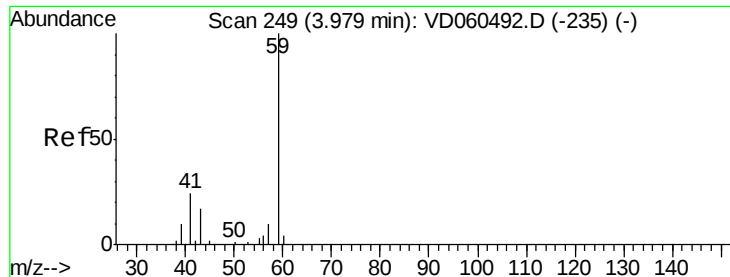
#10
 Methyl Iodide
 Concen: 46.414 ug/l
 RT: 3.26 min Scan# 176
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion:142 Resp: 581540
 Ion Ratio Lower Upper
 142 100
 127 53.8 41.2 61.8
 141 14.1 11.9 17.9



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



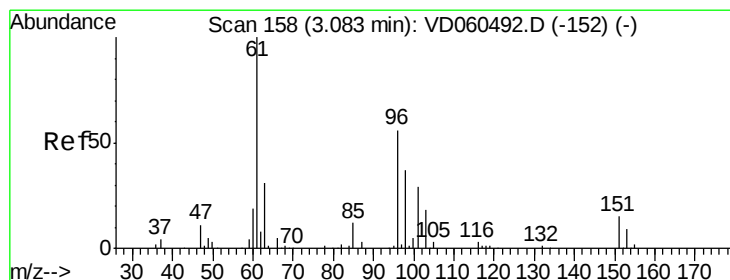
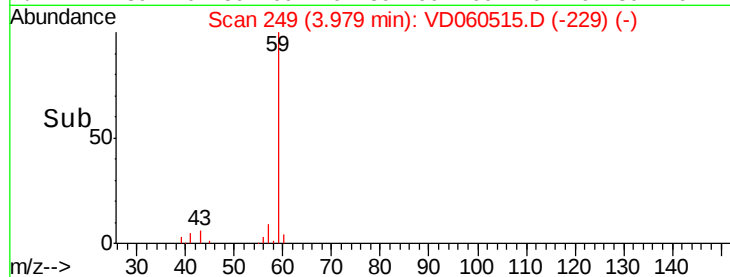
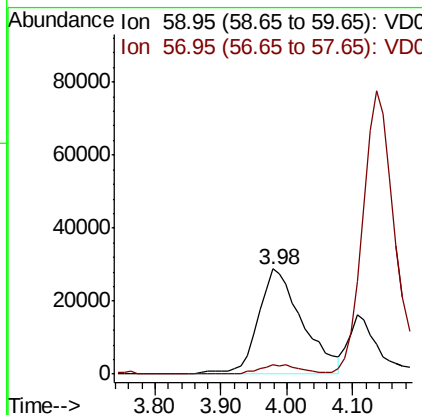
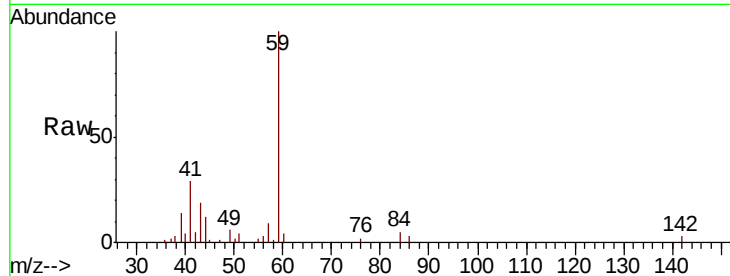


#11

Tert butyl alcohol
 Concen: 268.375 ug/l
 RT: 3.98 min Scan# 249
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

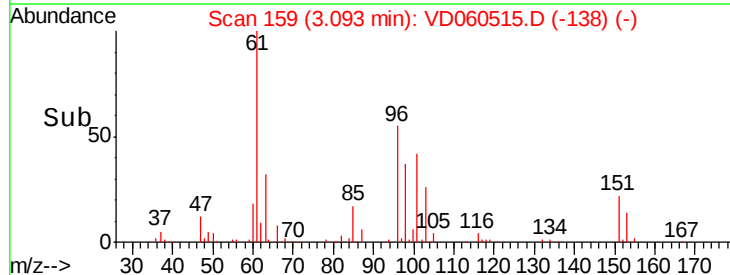
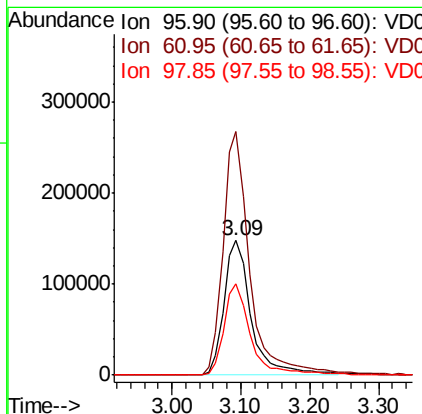
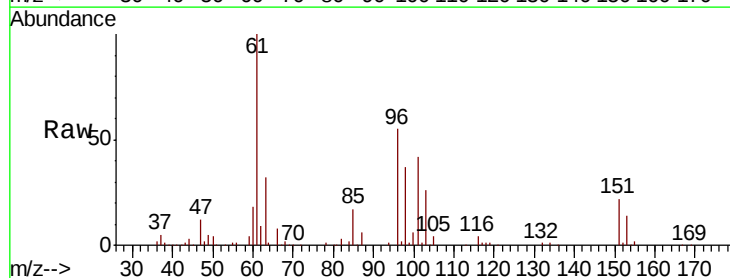
Tot Ion: 59 Resp: 134842
 Ion Ratio Lower Upper
 59 100
 57 9.1 8.1 12.1

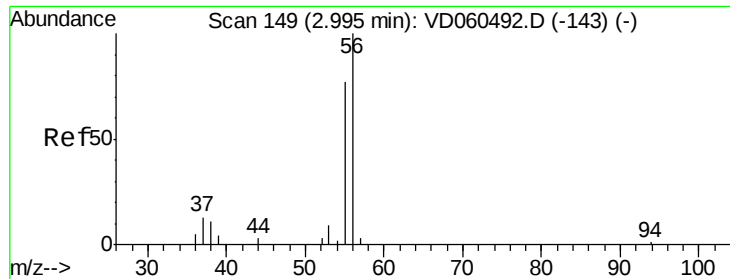


#12

1,1-Dichloroethene
 Concen: 46.502 ug/l
 RT: 3.09 min Scan# 159
 Delta R.T. 0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 96 Resp: 405545
 Ion Ratio Lower Upper
 96 100
 61 180.8 143.0 214.4
 98 67.4 53.4 80.0





#13

Acrolein

Concen: 354.722 ug/l

RT: 3.00 min Scan# 150

Delta R.T. 0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

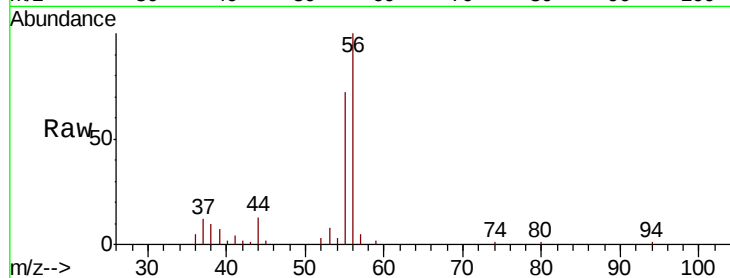
VSTDCCC050

Tot Ion: 56 Resp: 194744

Ion Ratio Lower Upper

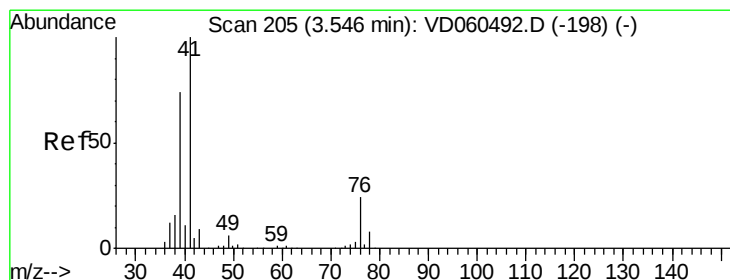
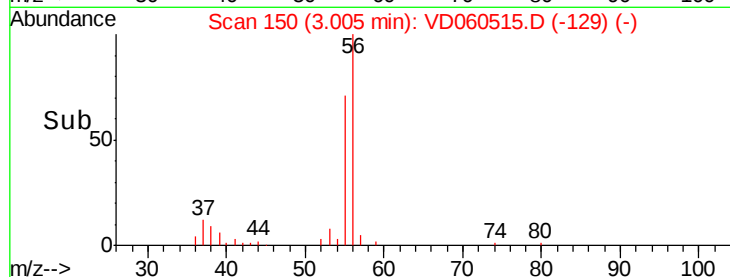
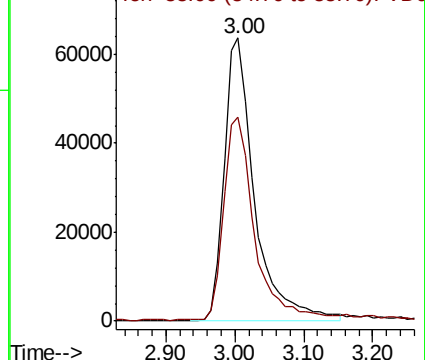
56 100

55 71.9 62.0 93.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 46.419 ug/l

RT: 3.56 min Scan# 206

Delta R.T. 0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

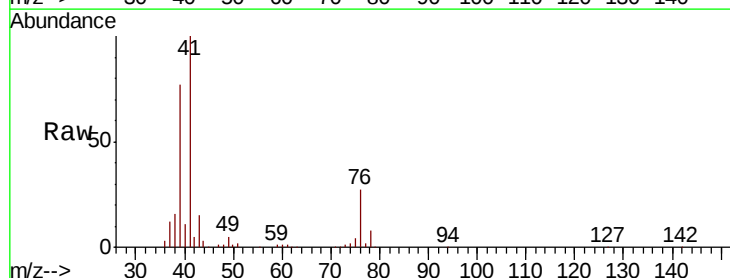
Tgt Ion: 41 Resp: 768064

Ion Ratio Lower Upper

41 100

39 77.2 59.3 88.9

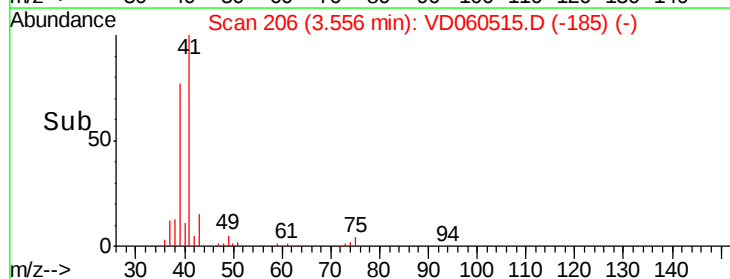
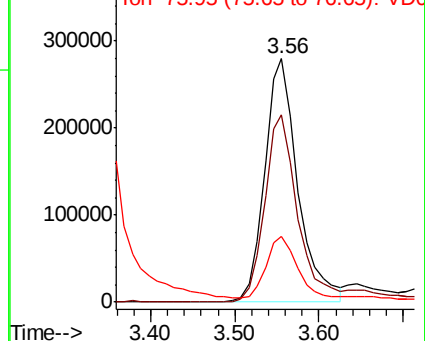
76 26.8 21.0 31.6

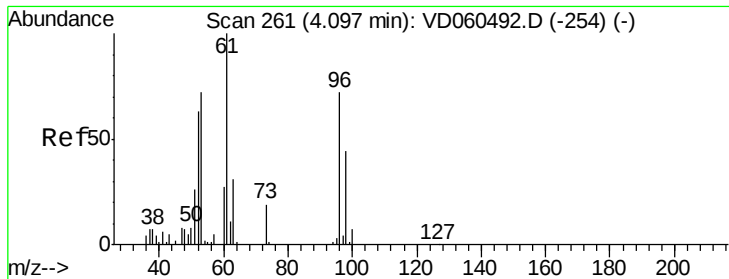


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 248.093 ug/l

RT: 4.10 min Scan# 261

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

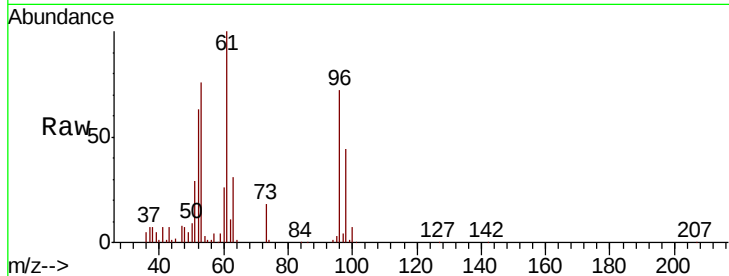
Tot Ion: 53 Resp: 707781

Ion Ratio Lower Upper

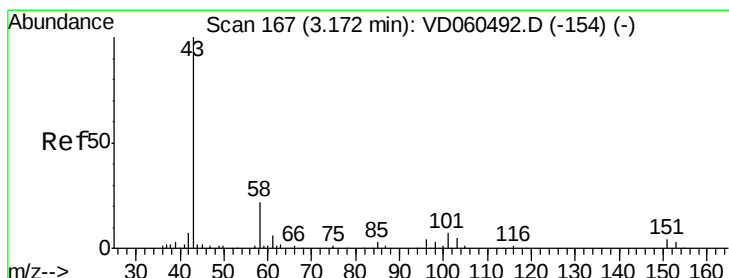
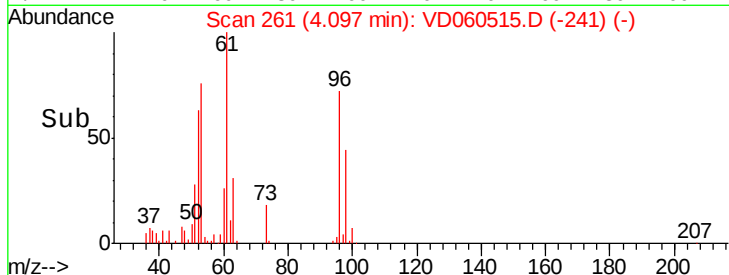
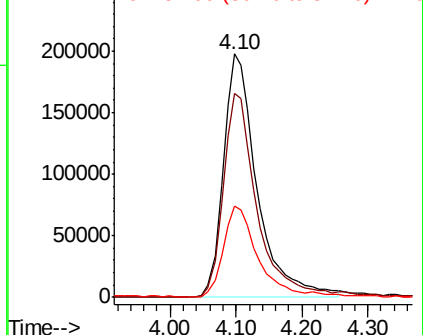
53 100

52 83.9 70.0 105.0

51 37.7 28.8 43.2



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: 280.186 ug/l

RT: 3.17 min Scan# 167

Delta R.T. 0.00 min

Lab File: VD060515.D

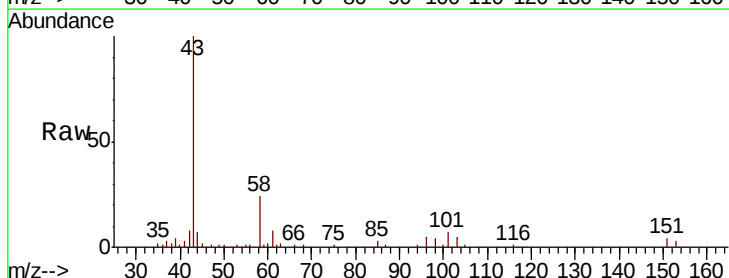
Acq: 10 Dec 2018 10:17

Tgt Ion: 43 Resp: 555423

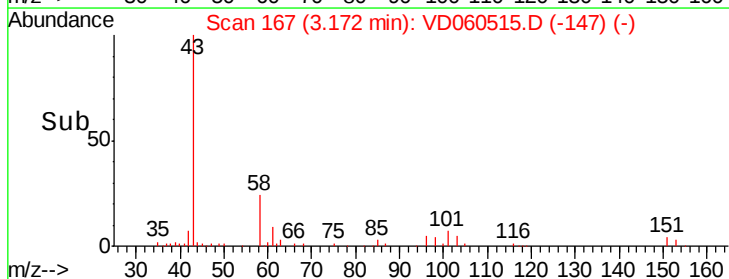
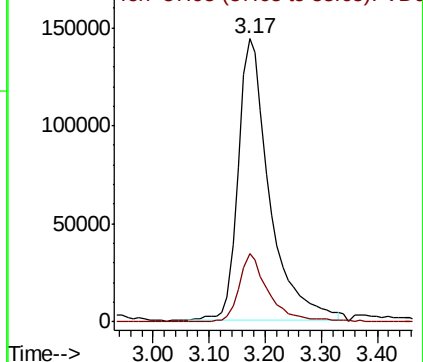
Ion Ratio Lower Upper

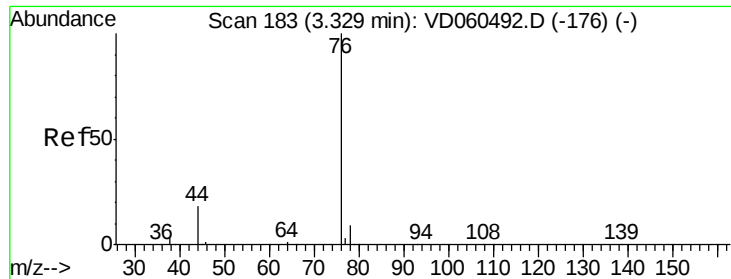
43 100

58 24.1 17.3 25.9



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

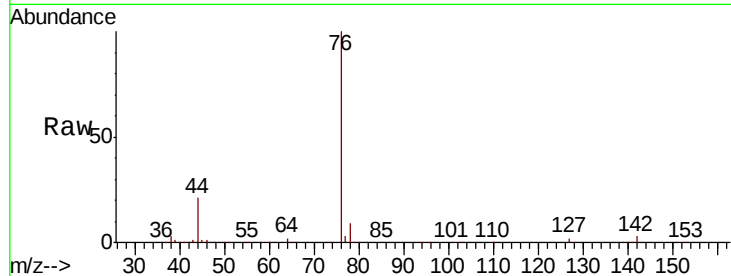




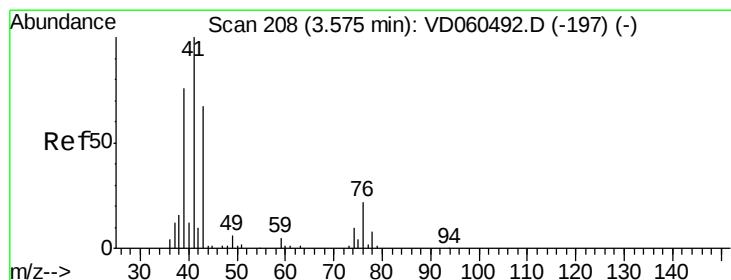
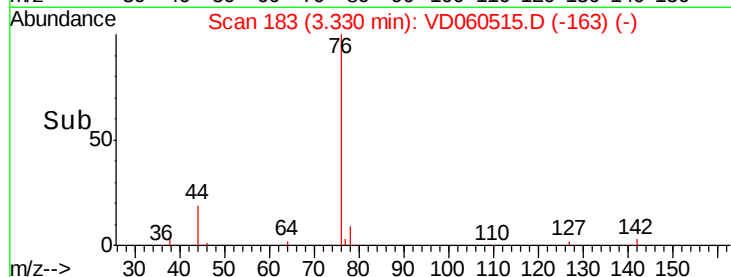
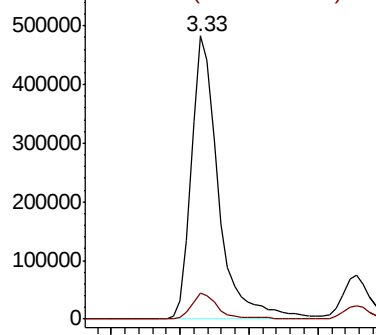
#17
Carbon Disulfide
Concen: 46.417 ug/l
RT: 3.33 min Scan# 183
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1314921
Ion Ratio Lower Upper
76 100
78 9.1 7.0 10.6

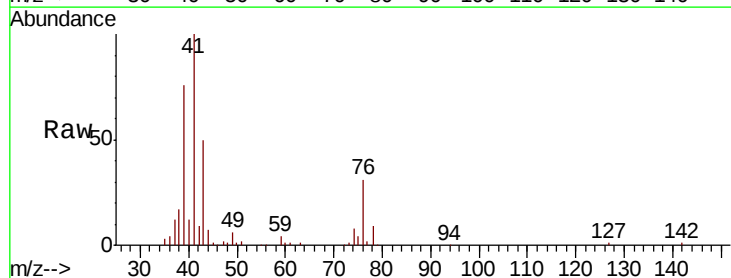


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

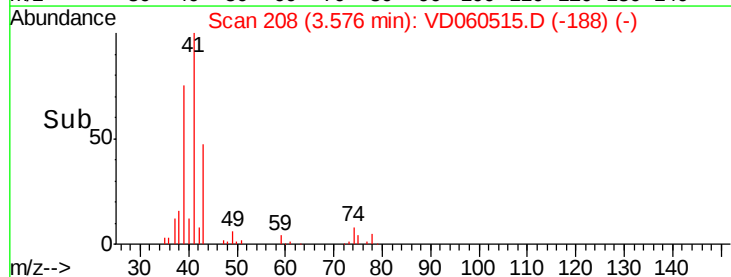
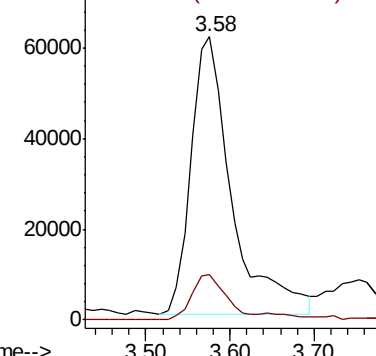


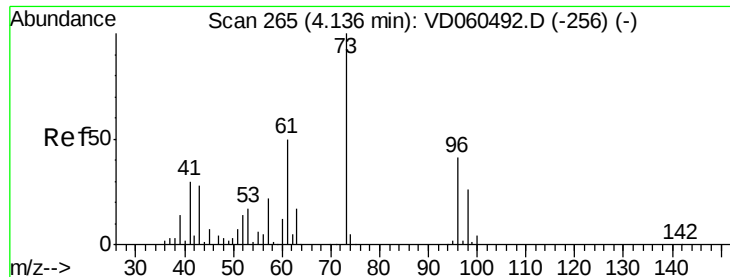
#18
Methyl Acetate
Concen: 43.649 ug/l
RT: 3.58 min Scan# 208
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 43 Resp: 205642
Ion Ratio Lower Upper
43 100
74 15.8 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

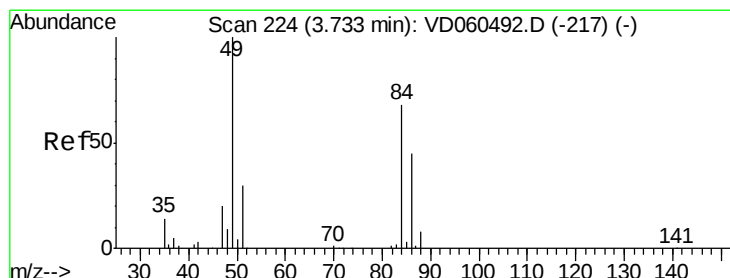
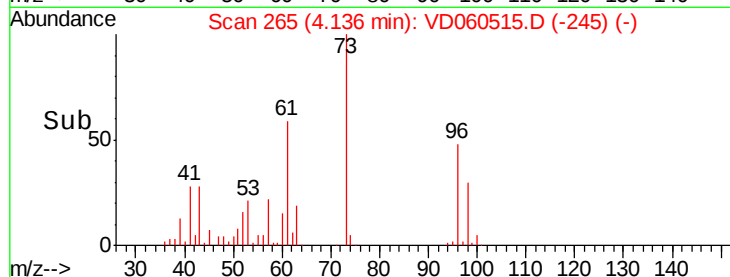
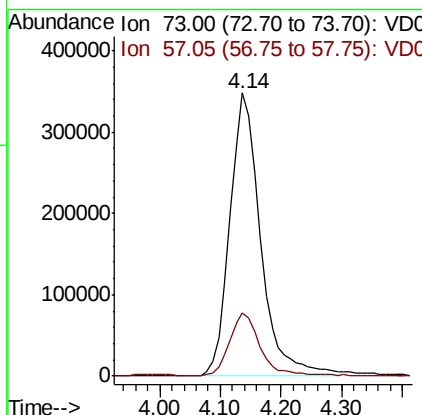
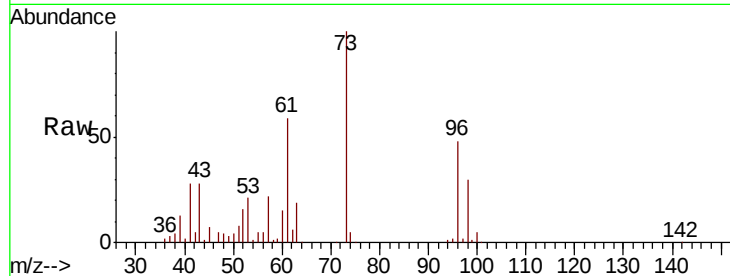




#19
Methyl tert-butyl Ether
Concen: 51.015 ug/l
RT: 4.14 min Scan# 265
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

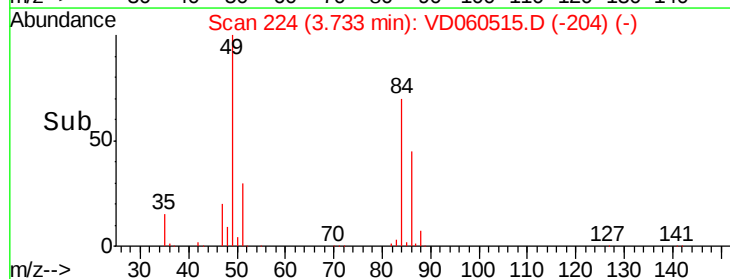
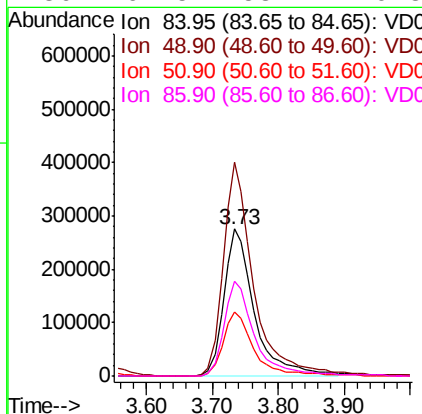
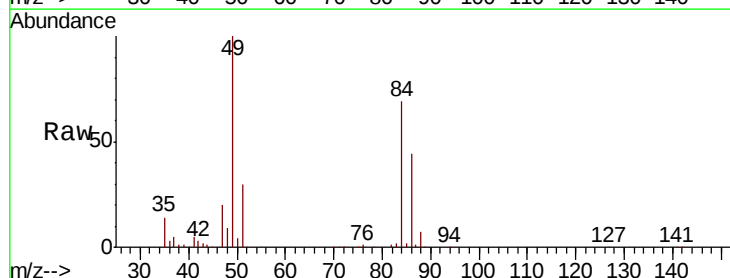
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

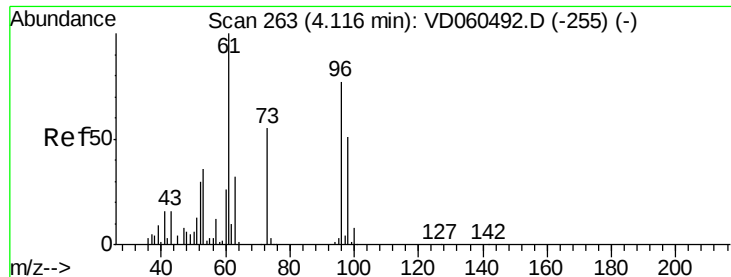
Tot Ion: 73 Resp: 1233803
Ion Ratio Lower Upper
73 100
57 22.3 17.8 26.6



#20
Methylene Chloride
Concen: 48.751 ug/l
RT: 3.73 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 84 Resp: 889381
Ion Ratio Lower Upper
84 100
49 145.4 117.2 175.8
51 44.0 35.3 52.9
86 64.5 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 50.530 ug/l

RT: 4.12 min Scan# 263

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

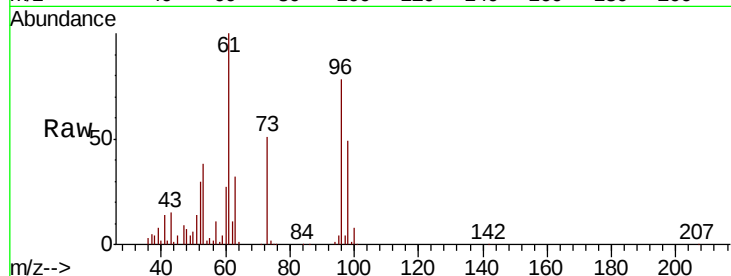
Tot Ion: 96 Resp: 958583

Ion Ratio Lower Upper

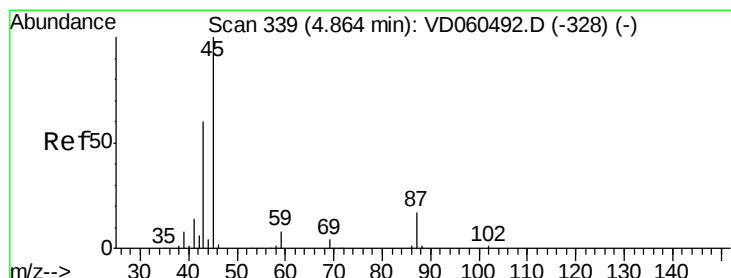
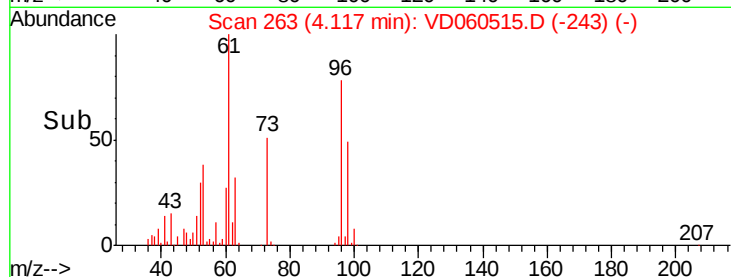
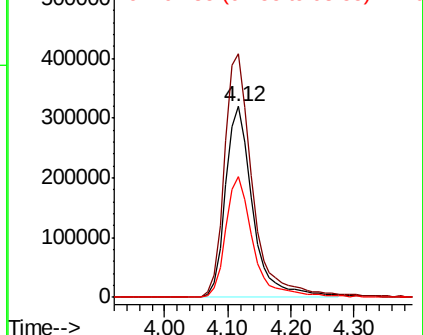
96 100

61 127.6 104.2 156.4

98 63.1 52.8 79.2



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: 48.672 ug/l

RT: 4.86 min Scan# 339

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Tgt Ion: 45 Resp: 2891500

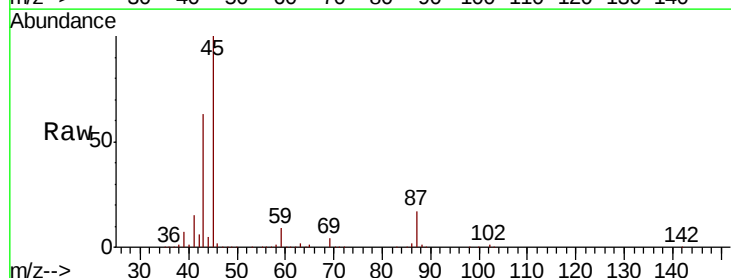
Ion Ratio Lower Upper

45 100

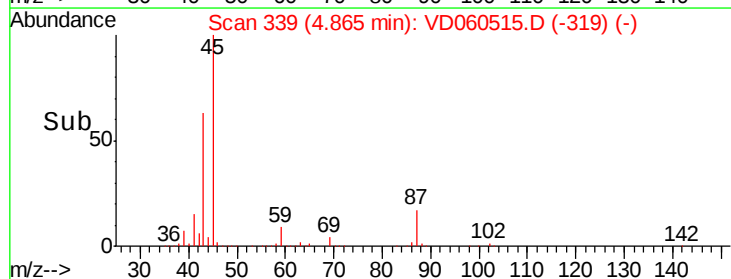
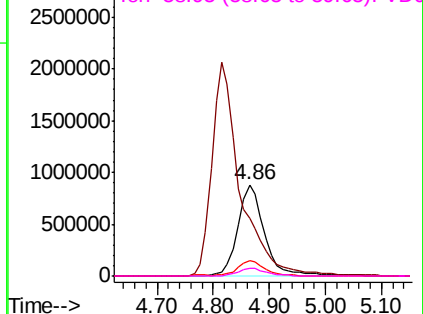
43 63.1 48.6 73.0

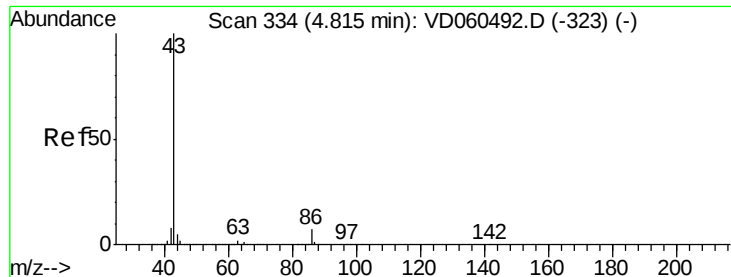
87 17.1 14.0 21.0

59 8.8 6.9 10.3



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: 245.557 ug/l

RT: 4.82 min Scan# 334

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

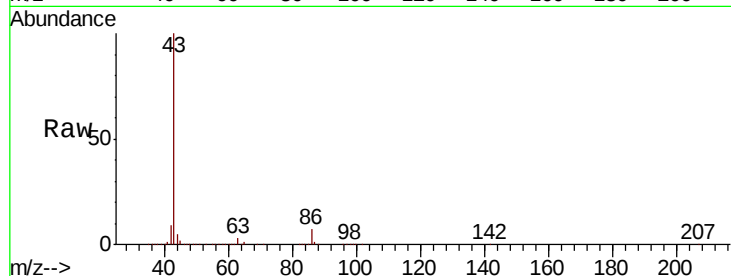
VSTDCCC050

Tot Ion: 43 Resp: 7227757

Ion Ratio Lower Upper

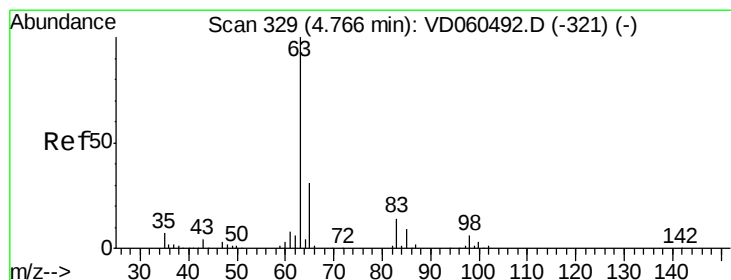
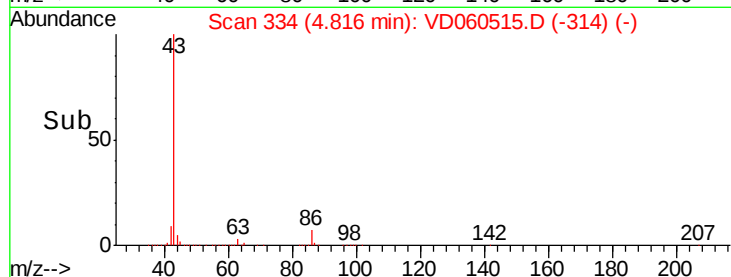
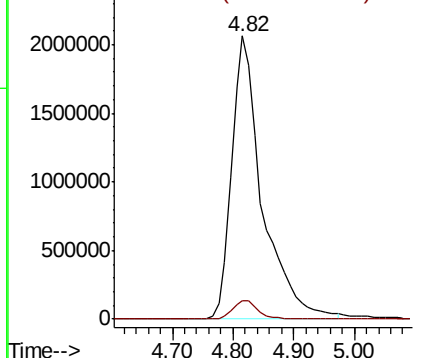
43 100

86 6.7 5.5 8.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.873 ug/l

RT: 4.77 min Scan# 329

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

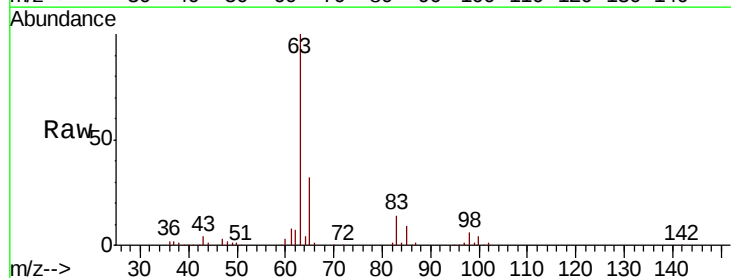
Tgt Ion: 63 Resp: 1539222

Ion Ratio Lower Upper

63 100

98 5.9 2.8 8.3

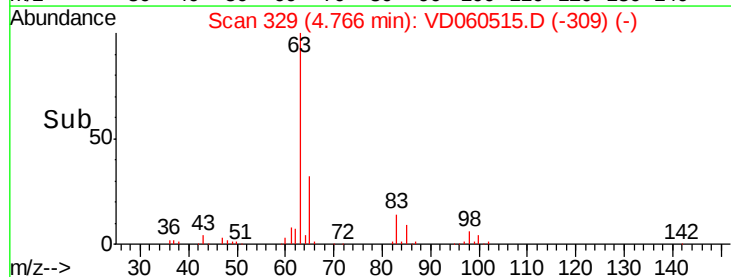
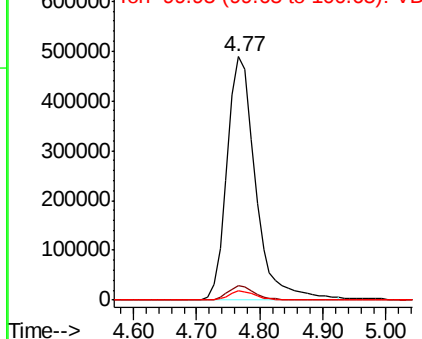
100 3.7 1.7 5.1

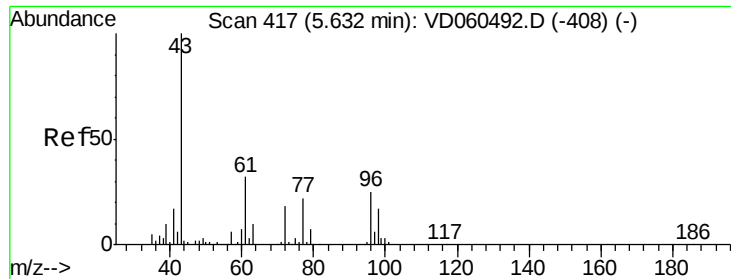


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 269.322 ug/l

RT: 5.63 min Scan# 417

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

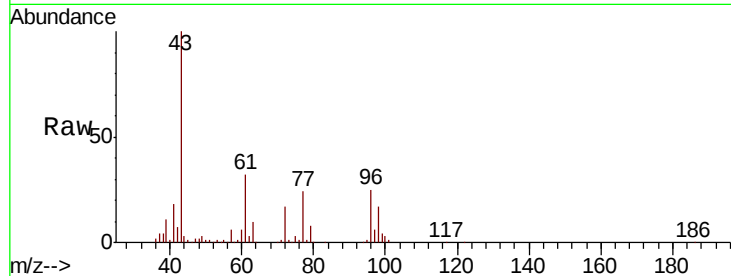
VSTDCCC050

Tot Ion: 43 Resp: 1050373

Ion Ratio Lower Upper

43 100

72 17.3 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

5.63

400000

300000

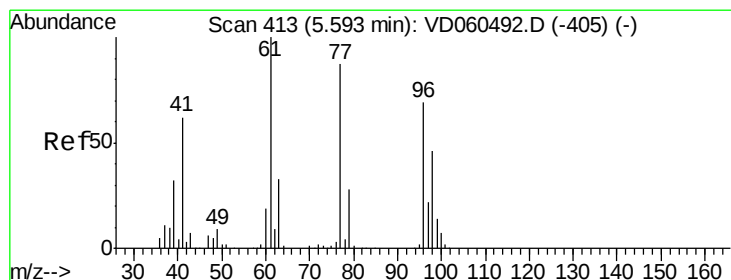
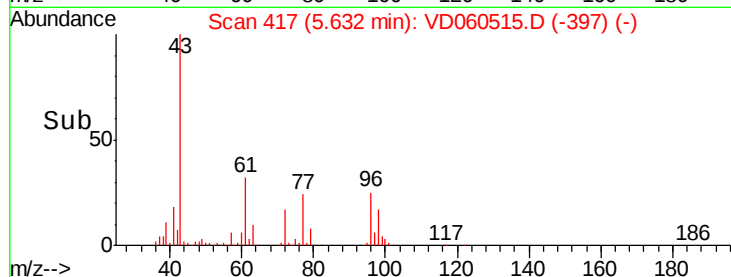
200000

100000

0

5.50 5.55 5.60 5.65 5.70

Time-->



#26

2,2-Dichloropropane

Concen: 50.976 ug/l

RT: 5.59 min Scan# 413

Delta R.T. 0.00 min

Lab File: VD060515.D

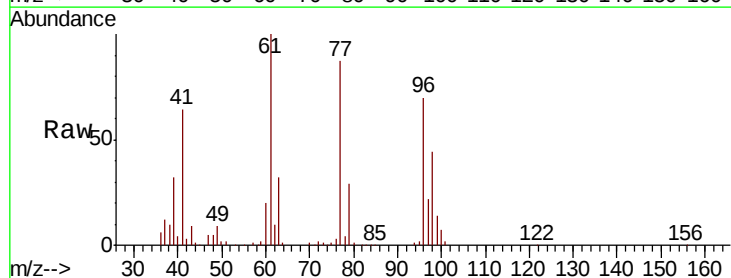
Acq: 10 Dec 2018 10:17

Tgt Ion: 77 Resp: 1215363

Ion Ratio Lower Upper

77 100

97 25.4 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

5.59

400000

300000

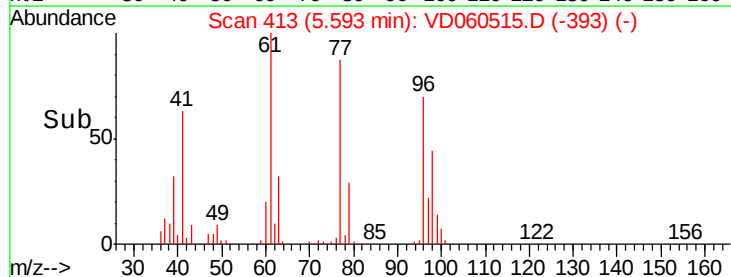
200000

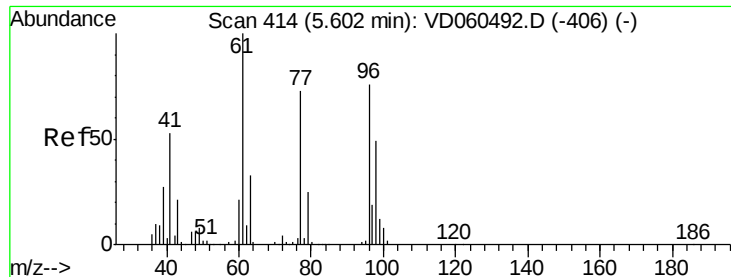
100000

0

5.50 5.60 5.70 5.80

Time-->





#27

cis-1,2-Dichloroethene

Concen: 49.909 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

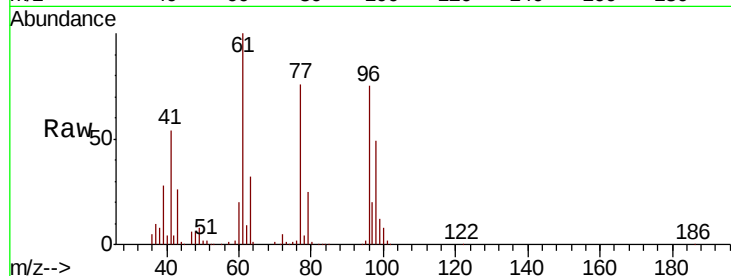
Tot Ion: 96 Resp: 962679

Ion Ratio Lower Upper

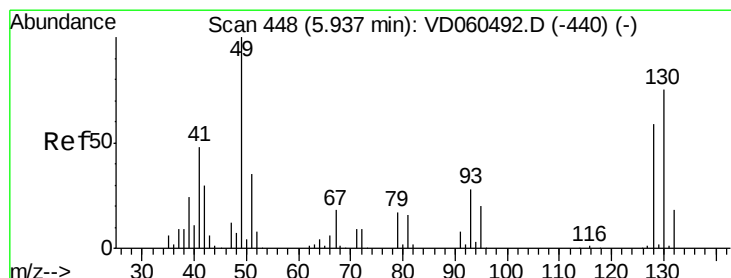
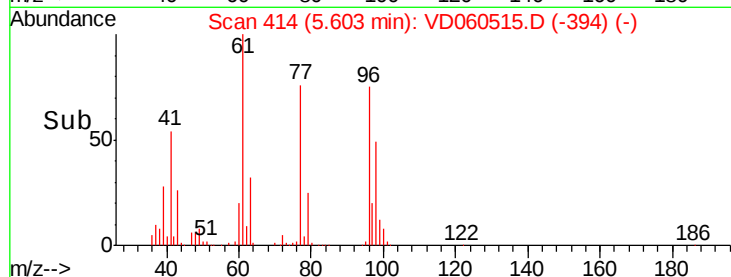
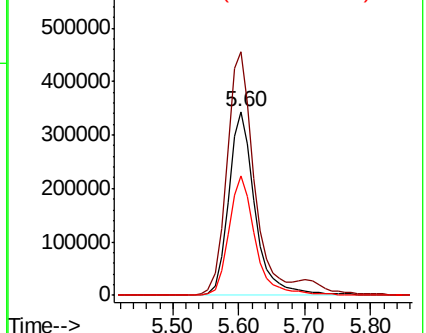
96 100

61 132.7 0.0 263.6

98 64.8 0.0 128.2



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



#28

Bromochloromethane

Concen: 48.632 ug/l

RT: 5.94 min Scan# 448

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

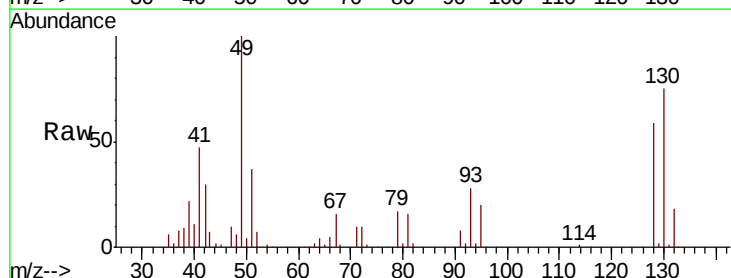
Tgt Ion: 49 Resp: 664892

Ion Ratio Lower Upper

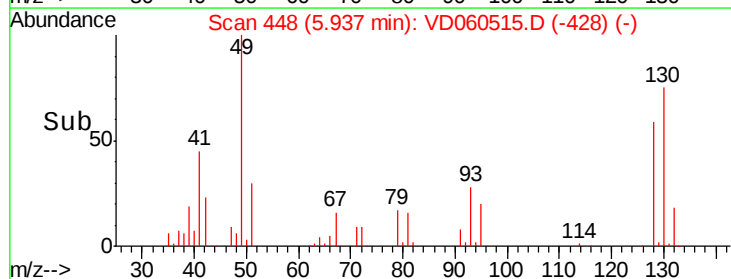
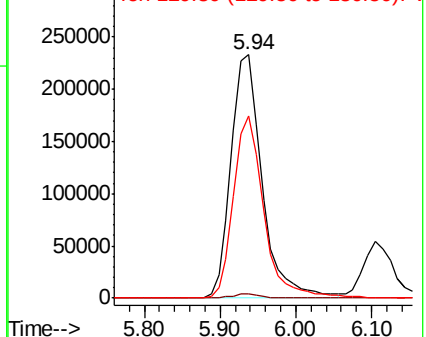
49 100

129 1.7 0.0 3.4

130 74.7 59.8 89.6



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

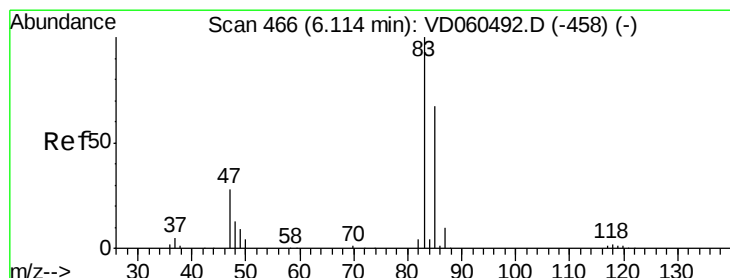
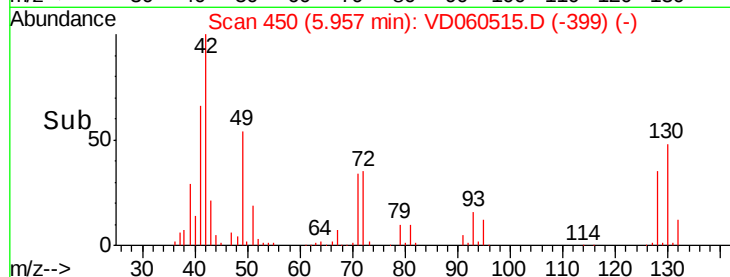
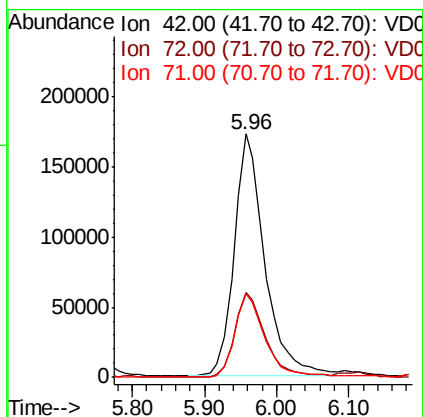
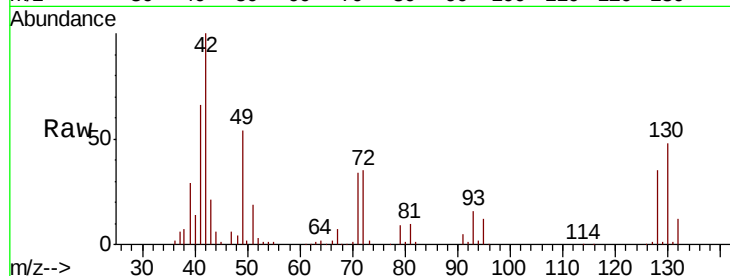




#29
Tetrahydrofuran
Concen: 232.981 ug/l
RT: 5.96 min Scan# 450
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

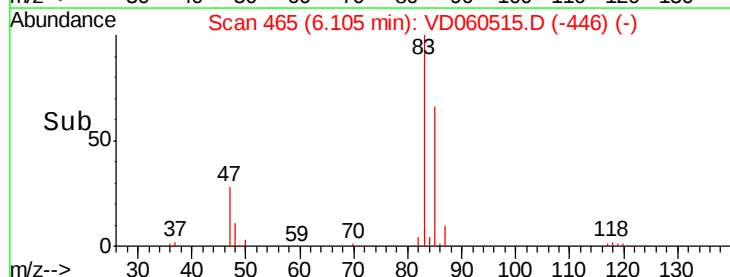
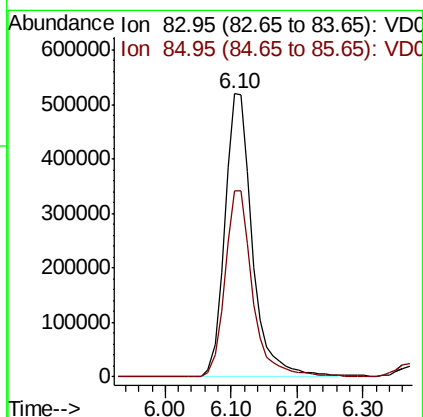
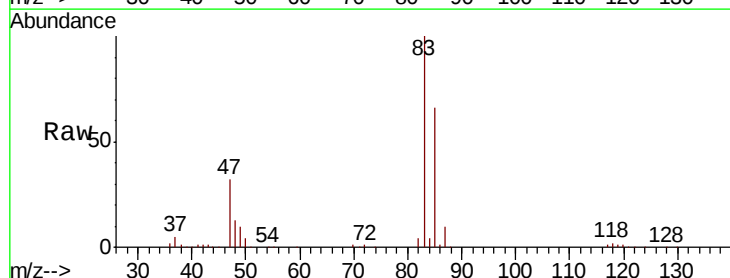
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

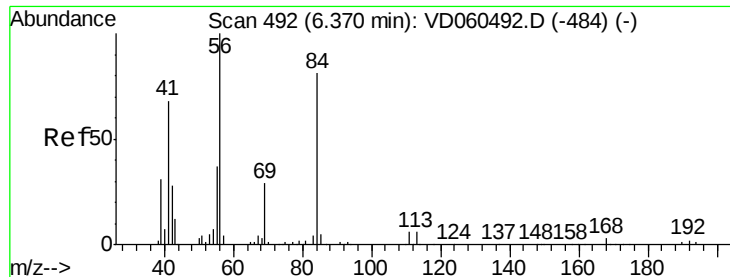
Tot Ion: 42 Resp: 514543
Ion Ratio Lower Upper
42 100
72 35.0 28.0 42.0
71 34.0 27.2 40.8



#30
Chloroform
Concen: 48.839 ug/l
RT: 6.10 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 83 Resp: 1518547
Ion Ratio Lower Upper
83 100
85 65.8 53.4 80.2

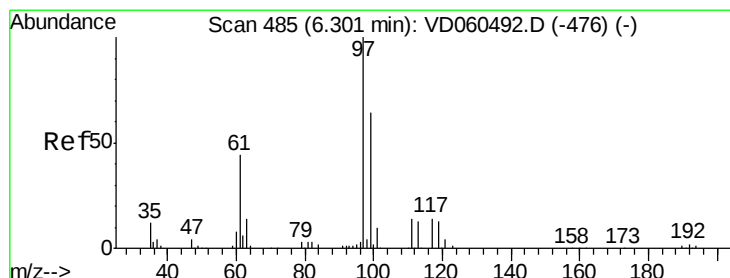
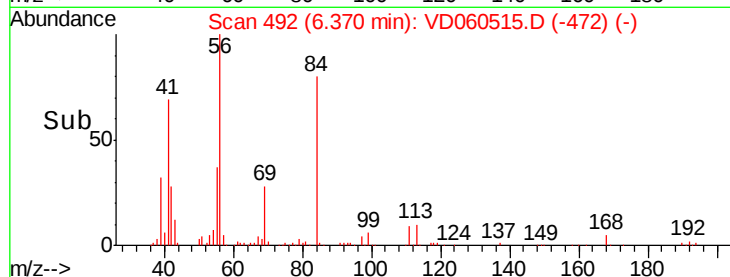
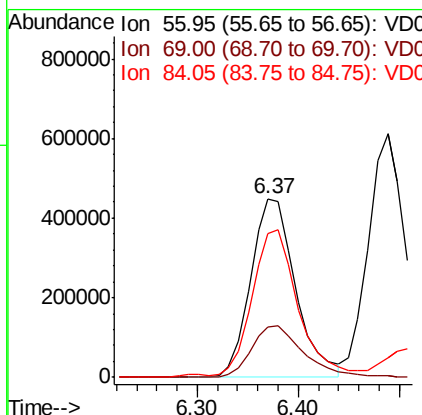
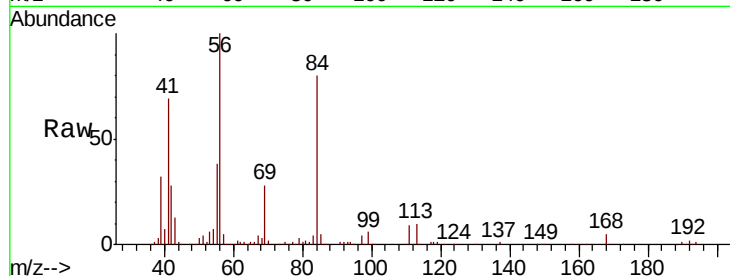




#31
Cyclohexane
Concen: 52.620 ug/l
RT: 6.37 min Scan# 492
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

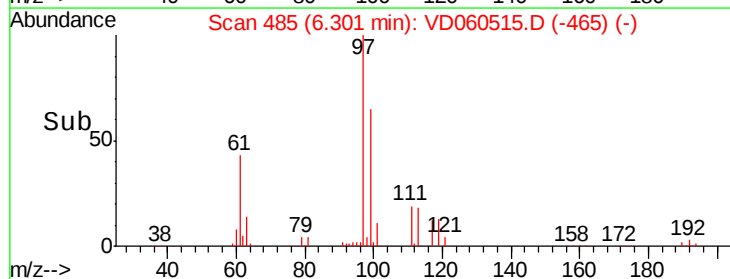
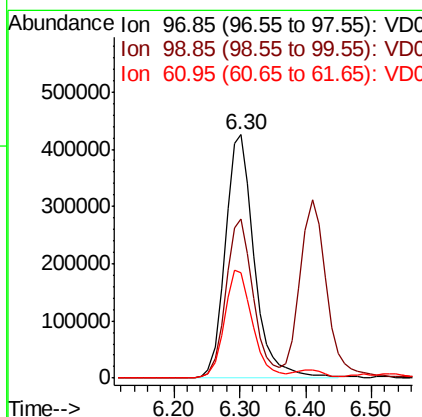
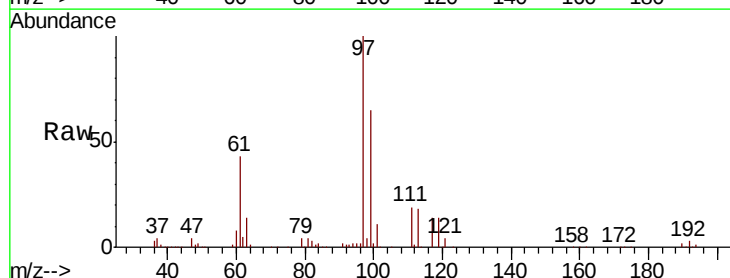
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

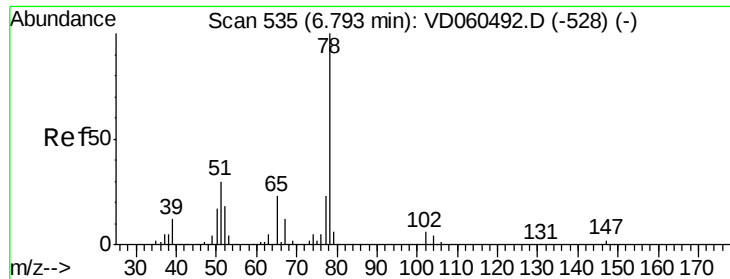
Tot Ion: 56 Resp: 1383407
Ion Ratio Lower Upper
56 100
69 28.4 22.8 34.2
84 80.5 65.1 97.7



#32
1,1,1-Trichloroethane
Concen: 51.135 ug/l
RT: 6.30 min Scan# 485
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 97 Resp: 1307081
Ion Ratio Lower Upper
97 100
99 65.4 51.0 76.4
61 43.1 35.3 52.9

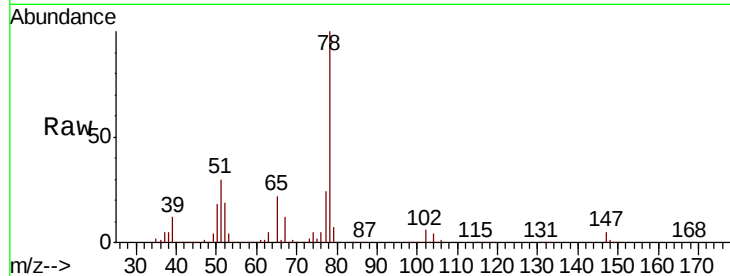




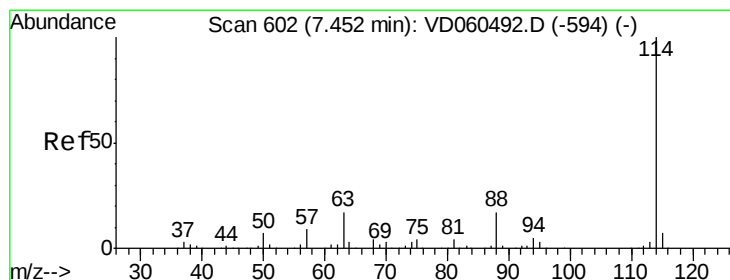
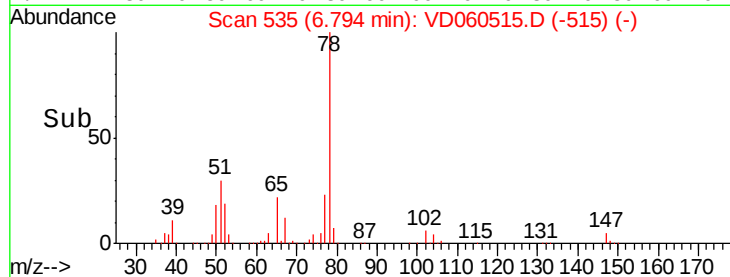
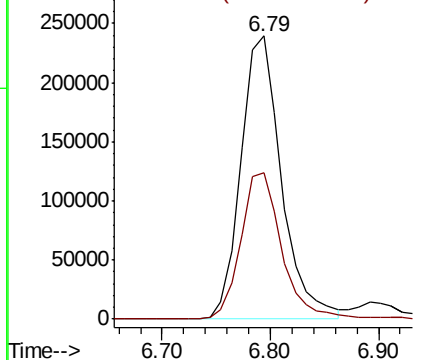
#33
 1,2-Dichloroethane-d4
 Concen: 51.135 ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 65 Resp: 624026
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 106.8

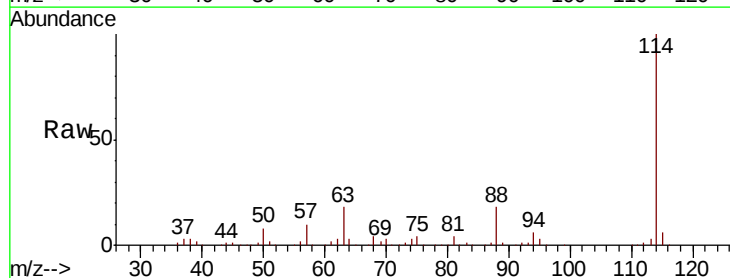


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

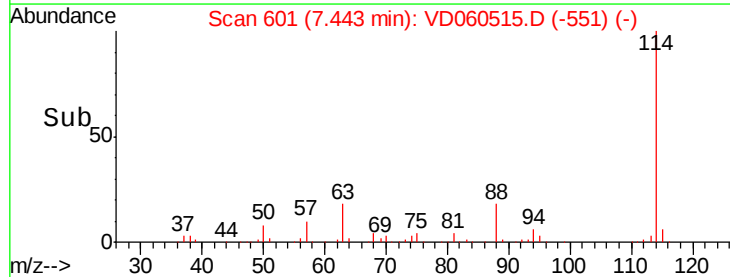
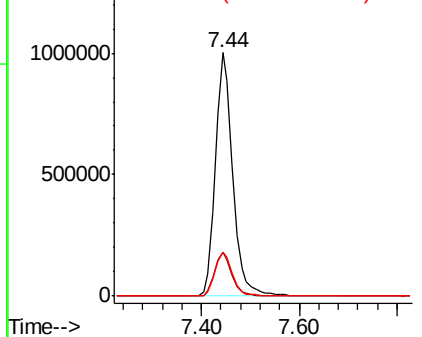


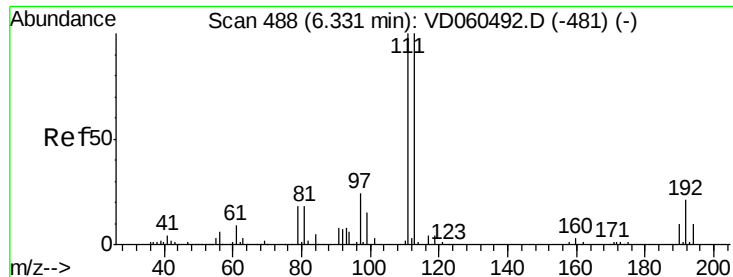
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 114 Resp: 2484651
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 34.2
 88 18.1 0.0 35.0



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

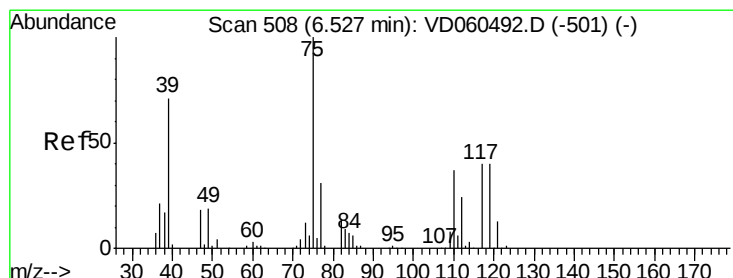
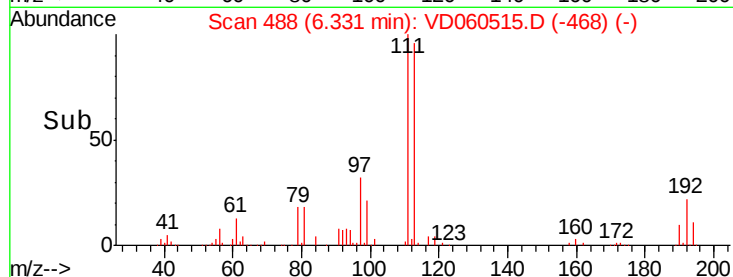
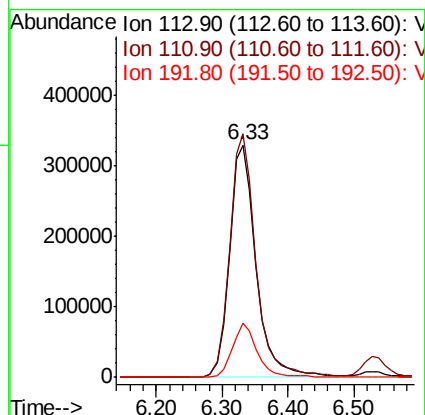
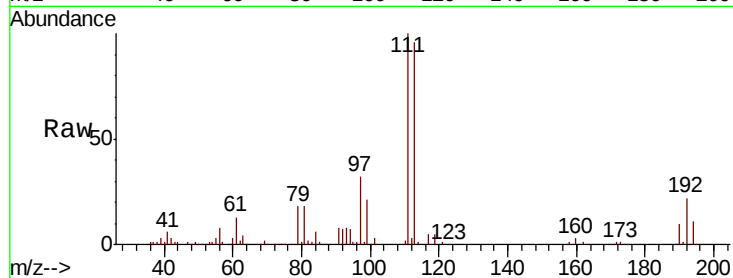




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

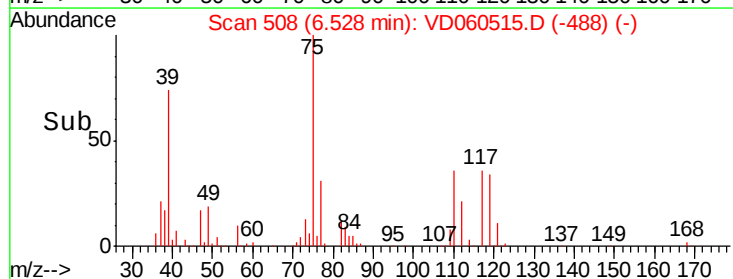
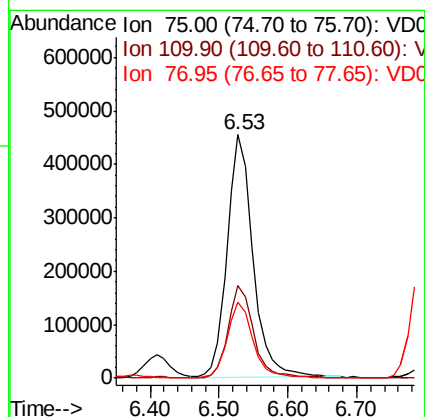
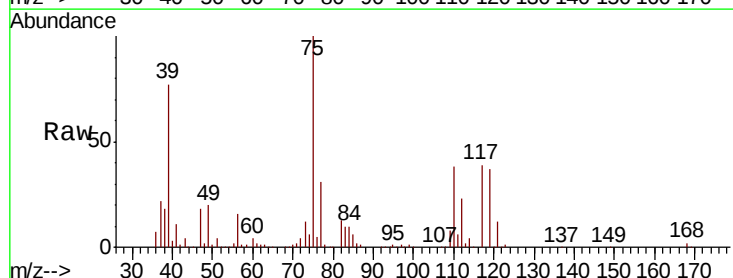
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

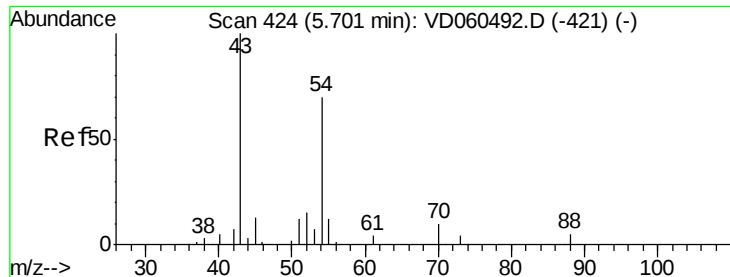
Tot Ion:113 Resp: 926861
 Ion Ratio Lower Upper
 113 100
 111 104.7 80.2 120.4
 192 23.0 16.6 24.8



#36
 1,1-Dichloropropene
 Concen: 48.313 ug/l
 RT: 6.53 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 75 Resp: 1173361
 Ion Ratio Lower Upper
 75 100
 110 37.8 18.3 54.8
 77 31.2 24.6 37.0

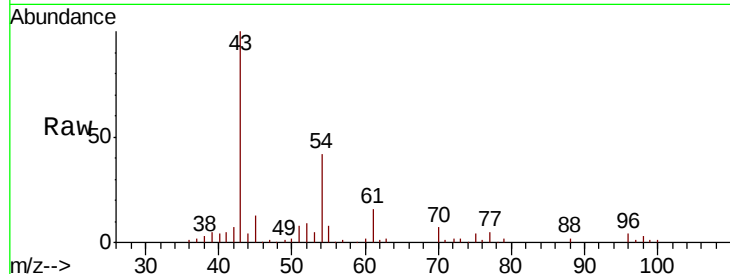




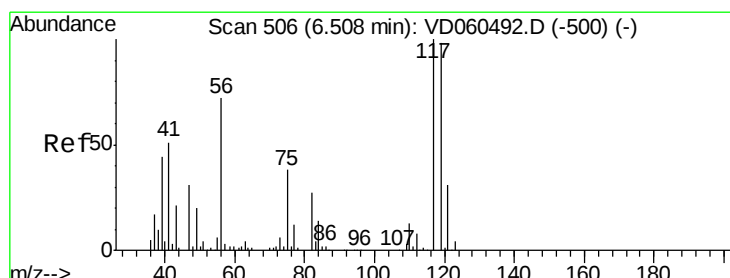
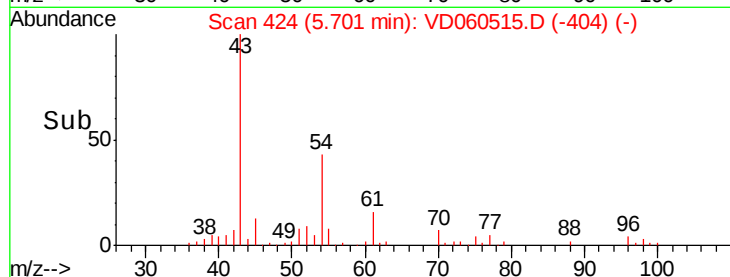
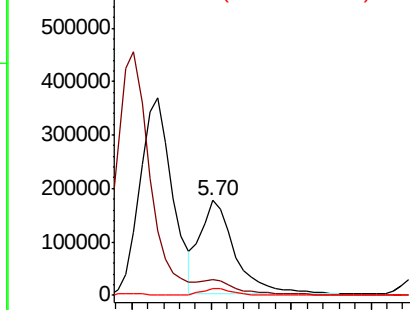
#37
Ethyl Acetate
Concen: 50.325 ug/l
RT: 5.70 min Scan# 424
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 530067
Ion Ratio Lower Upper
43 100
61 16.1 12.4 18.6
70 7.1 5.4 8.0

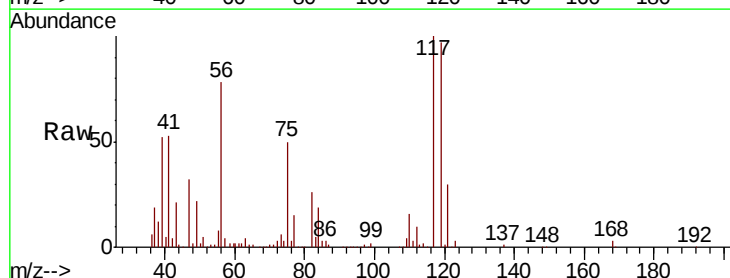


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

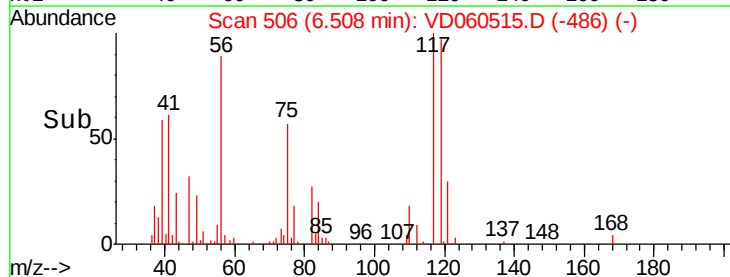
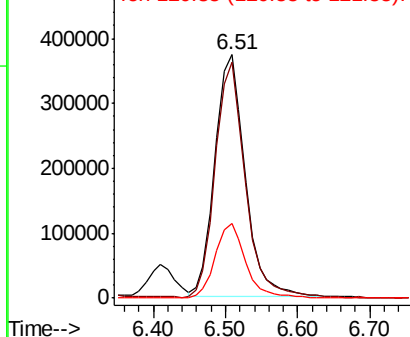


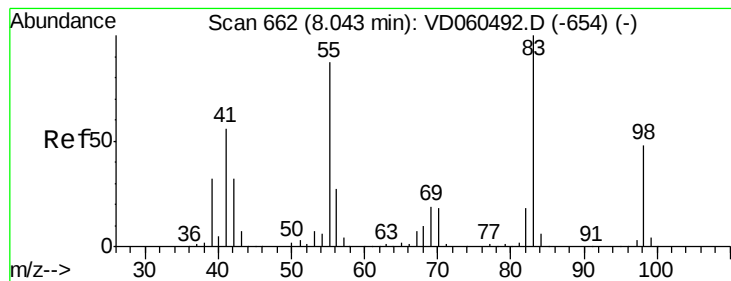
#38
Carbon Tetrachloride
Concen: 49.879 ug/l
RT: 6.51 min Scan# 506
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 117 Resp: 1087555
Ion Ratio Lower Upper
117 100
119 96.8 76.8 115.2
121 30.4 24.4 36.6



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





#39

Methvlcvclohexane

Concen: 47.937 ug/l

RT: 8.04 min Scan# 662

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

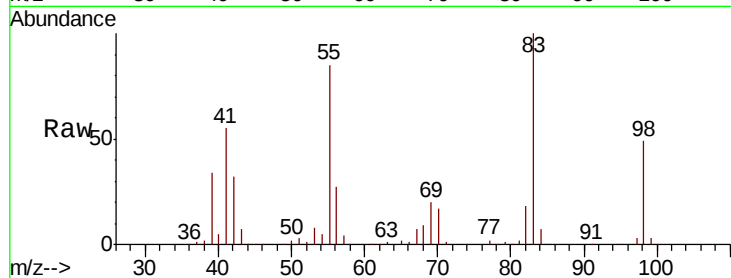
Tot Ion: 83 Resp: 1327212

Ion Ratio Lower Upper

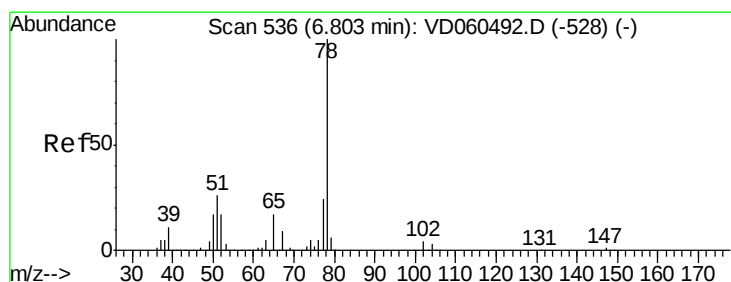
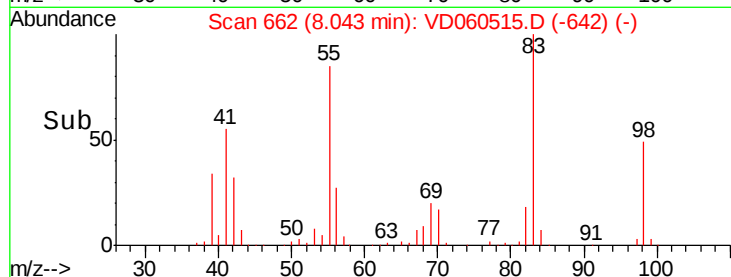
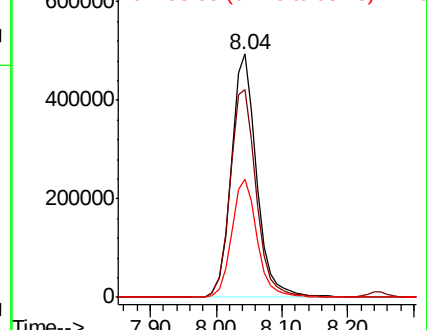
83 100

55 85.5 69.8 104.8

98 48.6 38.4 57.6



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 48.137 ug/l

RT: 6.80 min Scan# 536

Delta R.T. 0.00 min

Lab File: VD060515.D

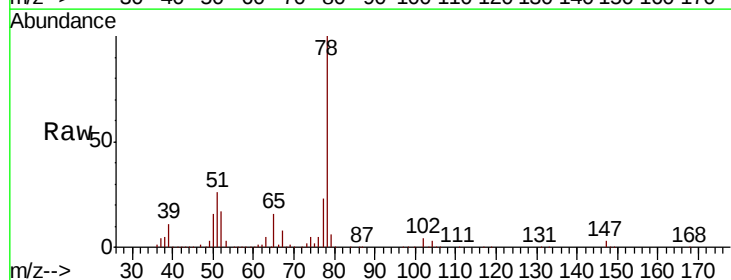
Acq: 10 Dec 2018 10:17

Tgt Ion: 78 Resp: 2987890

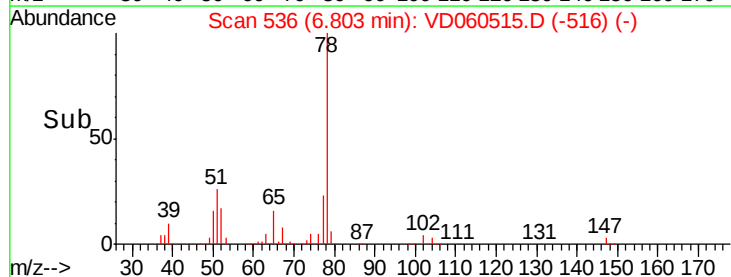
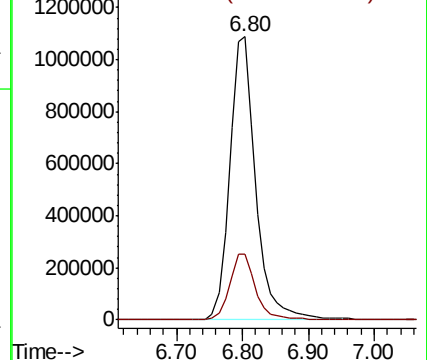
Ion Ratio Lower Upper

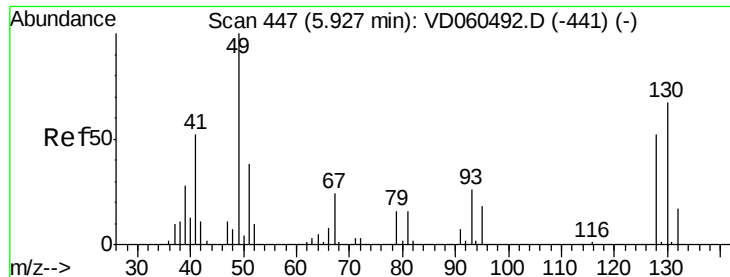
78 100

77 23.4 18.9 28.3



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

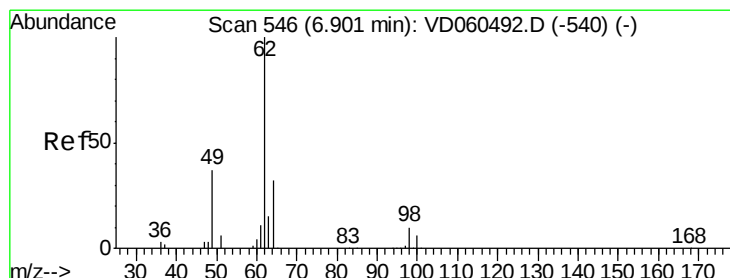
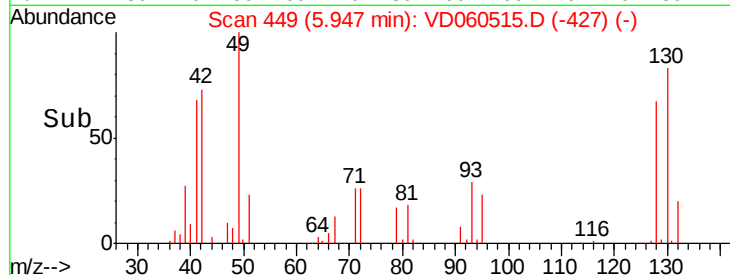
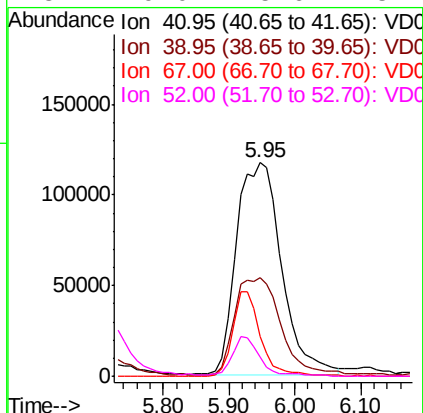
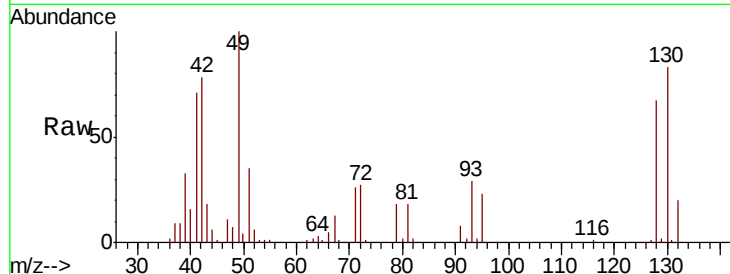




#41
Methacrylonitrile
Concen: 98.713 ug/l
RT: 5.95 min Scan# 449
Delta R.T. 0.02 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

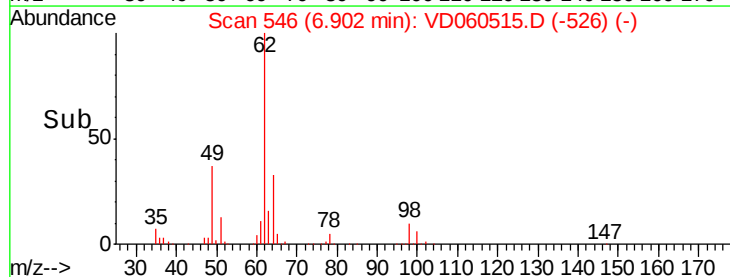
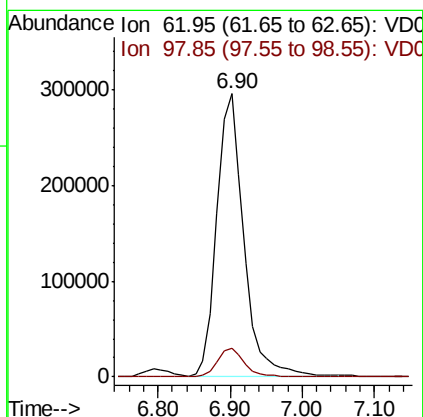
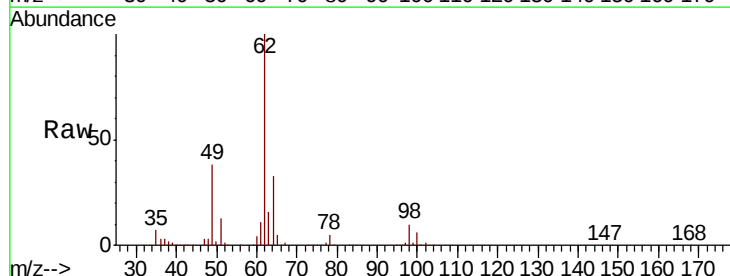
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

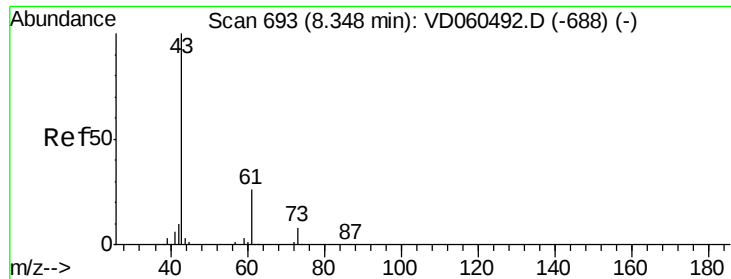
Tot Ion: 41 Resp: 560488
Ion Ratio Lower Upper
41 100
39 45.9 42.6 63.8
67 18.3 36.2 54.4#
52 9.0 15.6 23.4#



#42
1,2-Dichloroethane
Concen: 48.136 ug/l
RT: 6.90 min Scan# 546
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 62 Resp: 759667
Ion Ratio Lower Upper
62 100
98 10.1 0.0 20.2





#43

Isopropyl Acetate

Concen: 49.660 ug/l

RT: 8.35 min Scan# 693

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

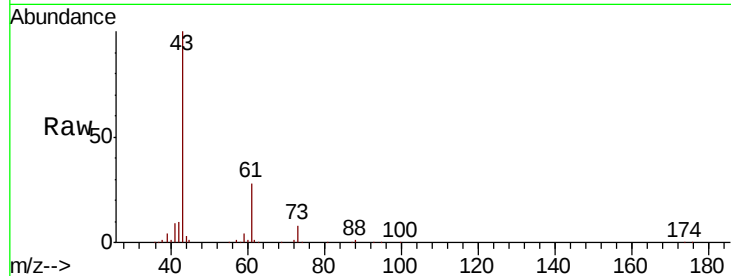
Tot Ion: 43 Resp: 645690

Ion Ratio Lower Upper

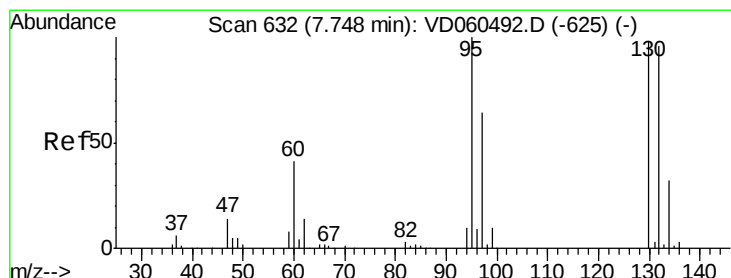
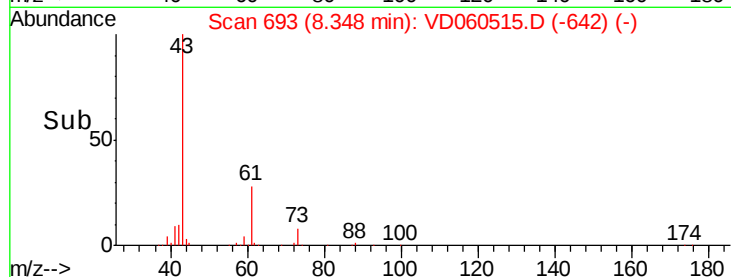
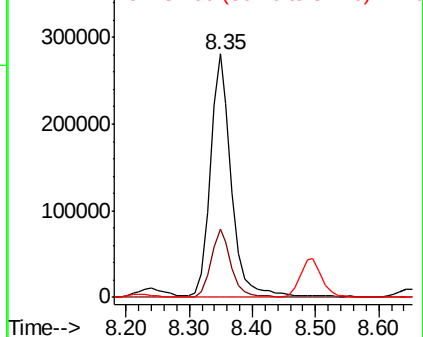
43 100

61 27.9 21.0 31.4

87 0.3 0.2 0.2#



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: 50.054 ug/l

RT: 7.74 min Scan# 631

Delta R.T. -0.01 min

Lab File: VD060515.D

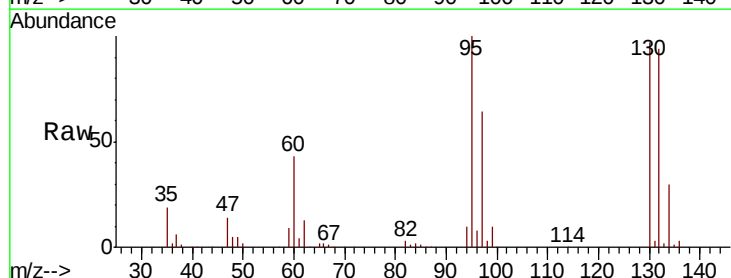
Acq: 10 Dec 2018 10:17

Tgt Ion:130 Resp: 928482

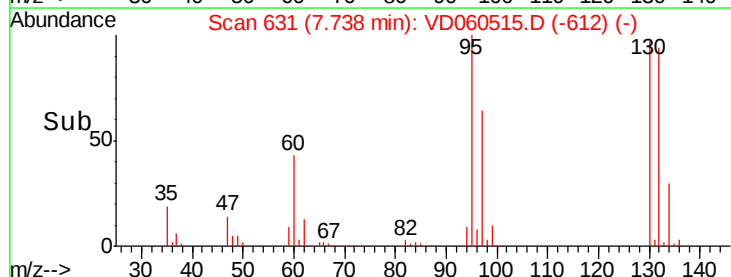
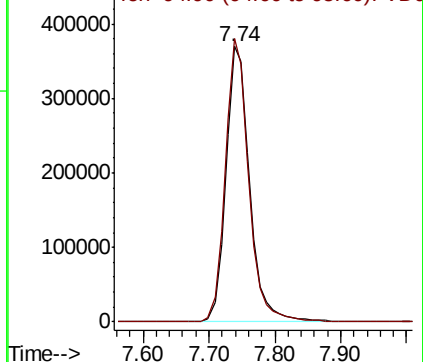
Ion Ratio Lower Upper

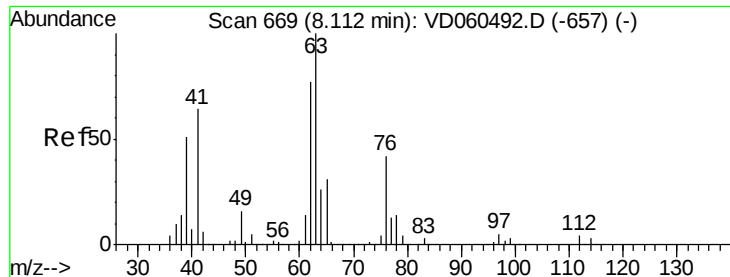
130 100

95 102.7 0.0 203.8



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

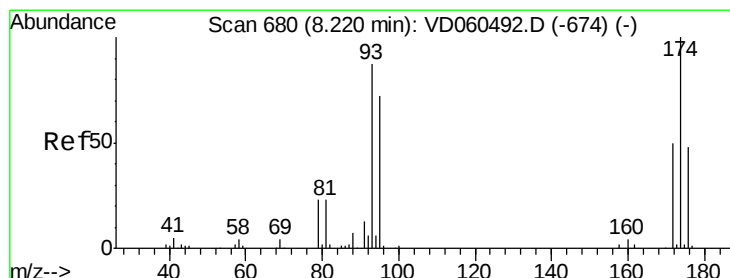
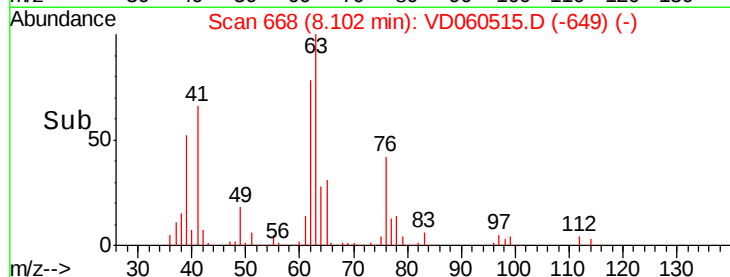
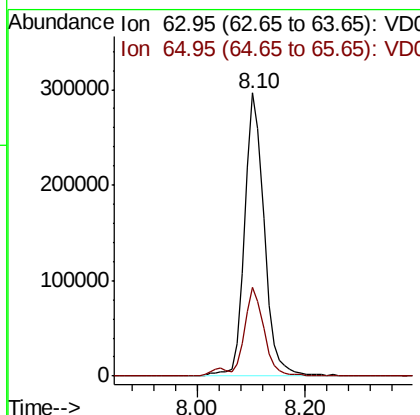
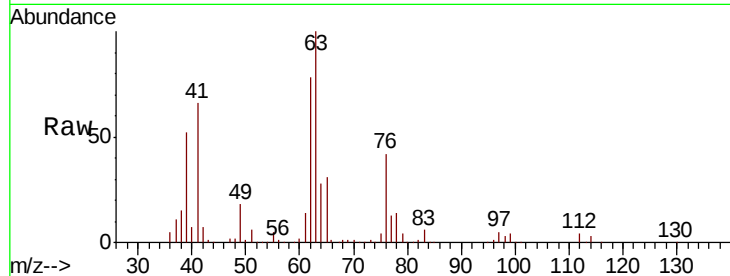




#45
 1,2-Dichloropropane
 Concen: 48.569 ug/l
 RT: 8.10 min Scan# 668
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

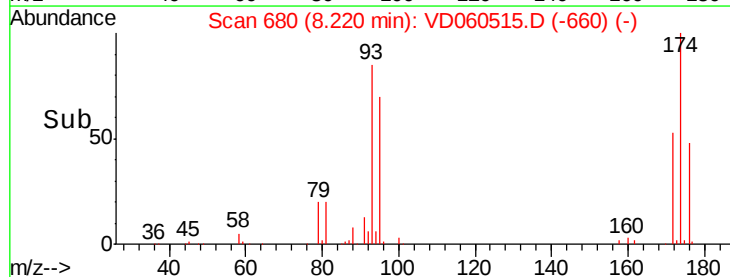
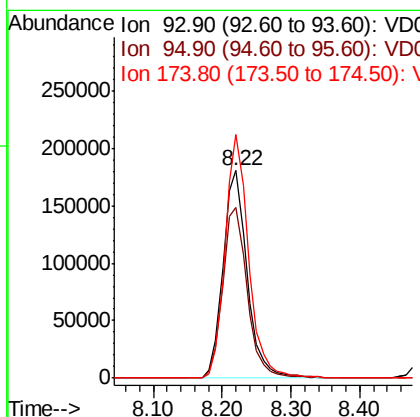
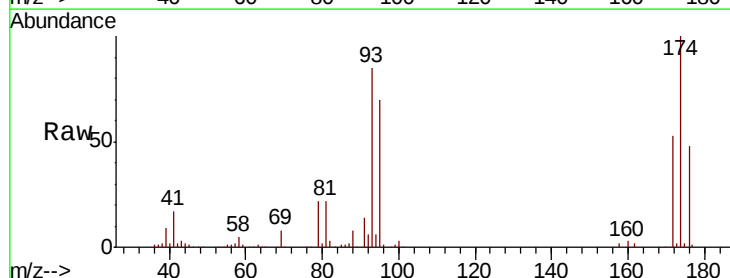
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

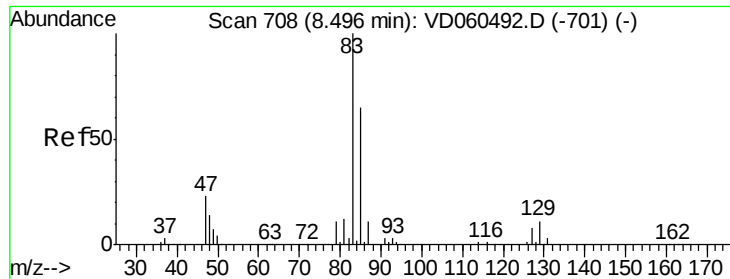
Tot Ion: 63 Resp: 745608
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.6 37.0



#46
 Dibromomethane
 Concen: 49.232 ug/l
 RT: 8.22 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 93 Resp: 436666
 Ion Ratio Lower Upper
 93 100
 95 82.5 65.6 98.4
 174 117.5 91.7 137.5





#47

Bromodichloromethane

Concen: 50.339 ug/l

RT: 8.50 min Scan# 708

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

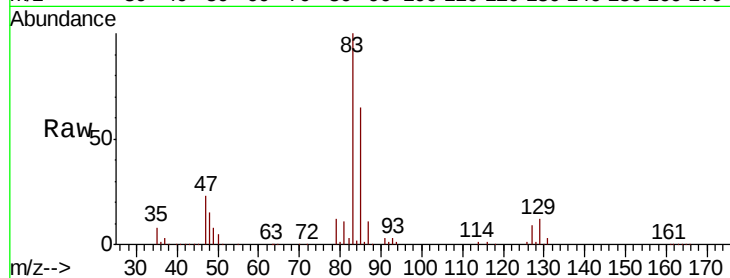
Tot Ion: 83 Resp: 1059388

Ion Ratio Lower Upper

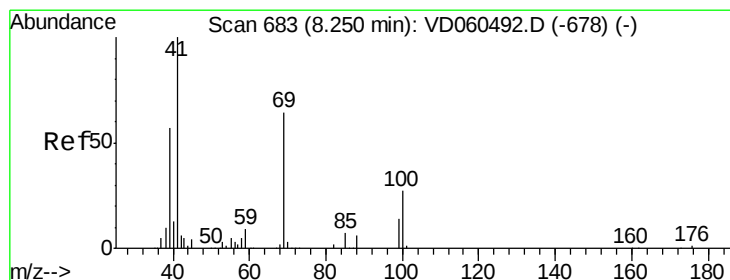
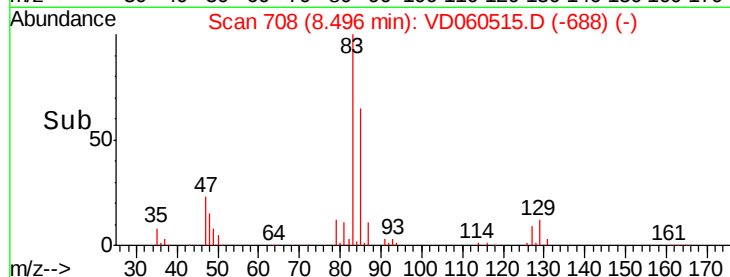
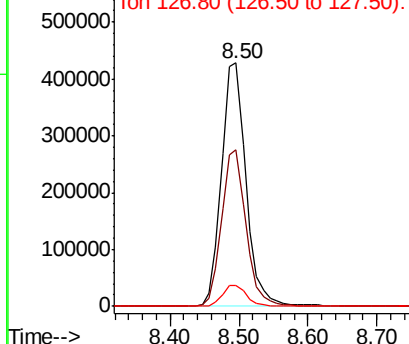
83 100

85 64.5 52.2 78.4

127 8.5 6.7 10.1



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: 51.236 ug/l

RT: 8.25 min Scan# 683

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

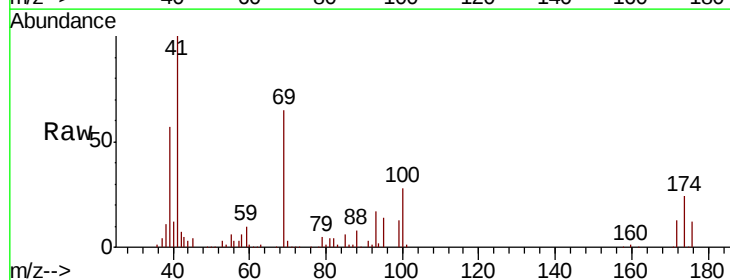
Tgt Ion: 41 Resp: 394176

Ion Ratio Lower Upper

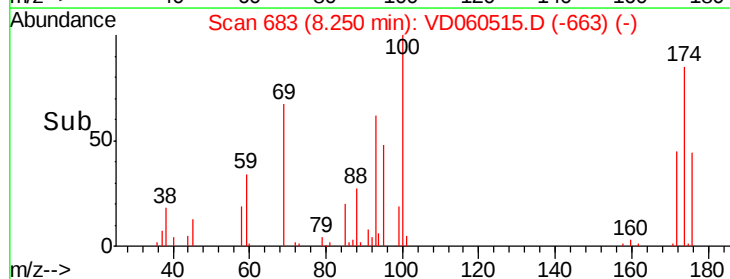
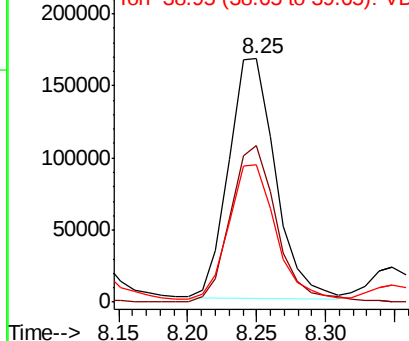
41 100

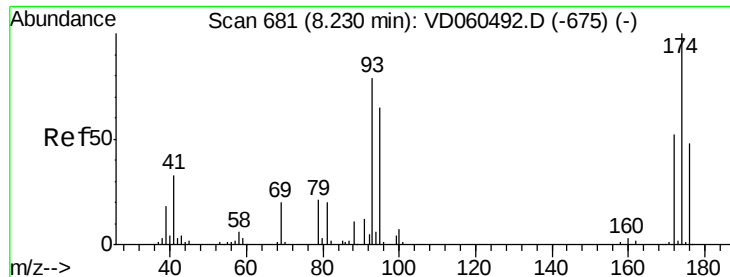
69 64.5 50.2 75.4

39 56.6 46.1 69.1



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: 1081.169 ug/l

RT: 8.23 min Scan# 681

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

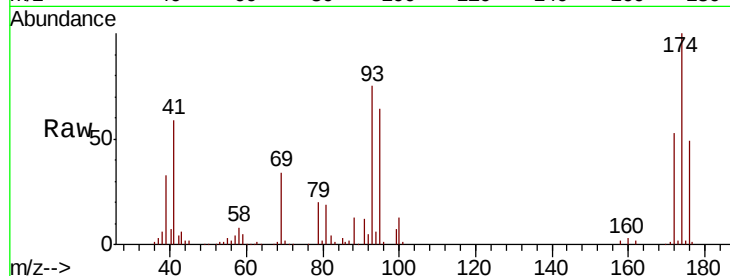
Tot Ion: 88 Resp: 75386

Ion Ratio Lower Upper

88 100

43 45.5 32.9 49.3

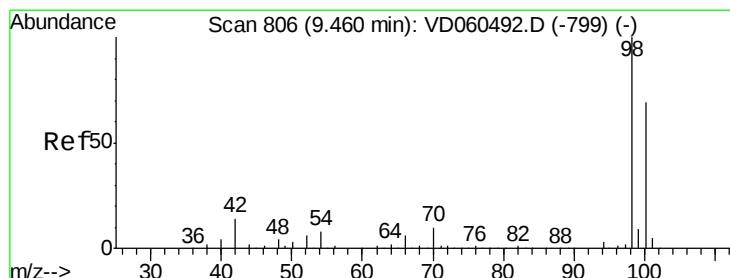
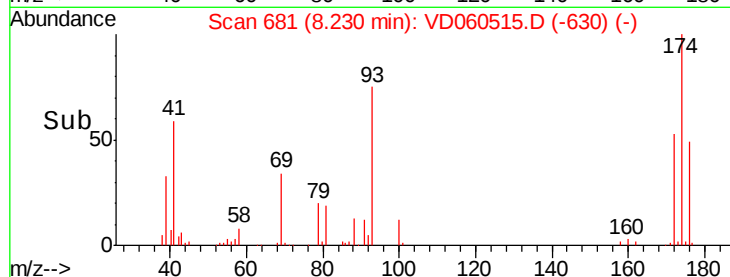
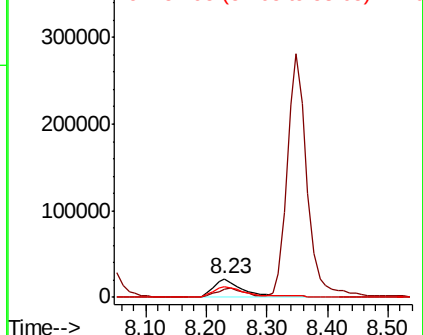
58 61.2 47.7 71.5



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: 1081.169 ug/l

RT: 9.45 min Scan# 805

Delta R.T. -0.01 min

Lab File: VD060515.D

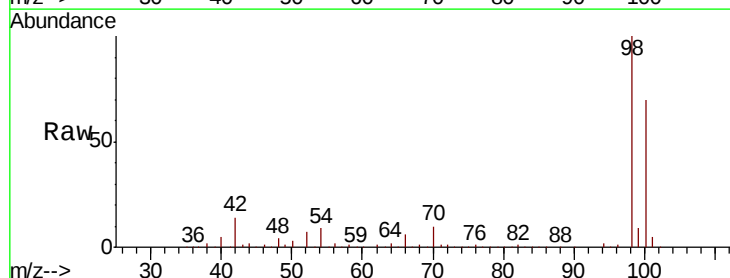
Acq: 10 Dec 2018 10:17

Tgt Ion: 98 Resp: 2754268

Ion Ratio Lower Upper

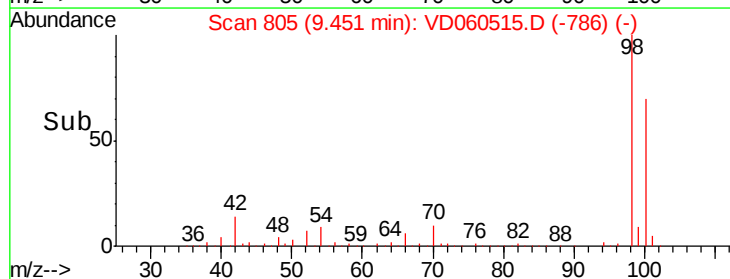
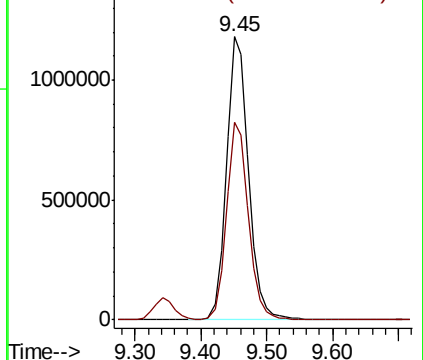
98 100

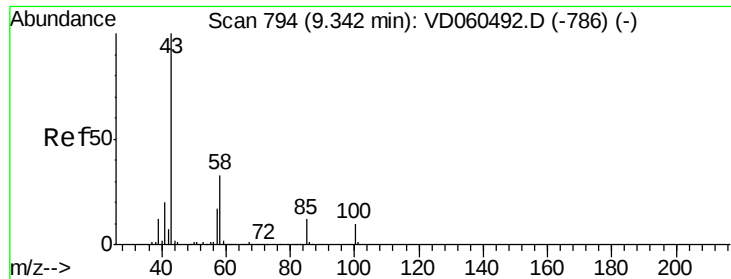
100 69.6 55.7 83.5



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: 251.301 ug/l

RT: 9.34 min Scan# 794

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

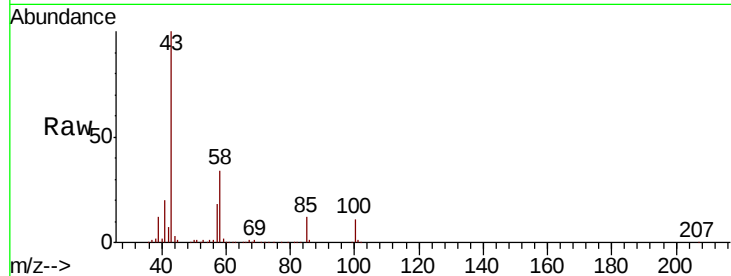
VSTDCCC050

Tot Ion: 43 Resp: 2032491

Ion Ratio Lower Upper

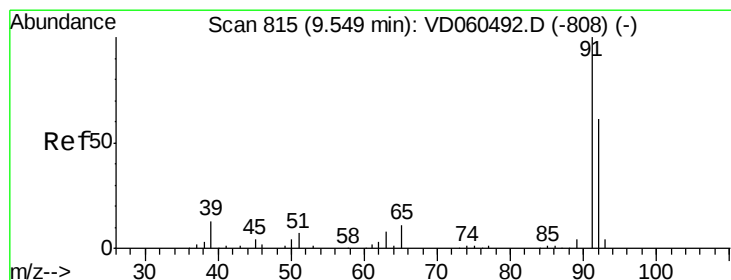
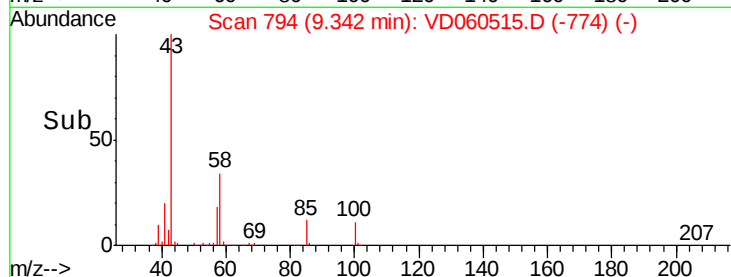
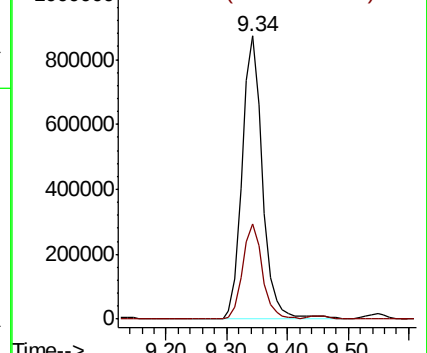
43 100

58 33.6 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 48.593 ug/l

RT: 9.55 min Scan# 815

Delta R.T. 0.00 min

Lab File: VD060515.D

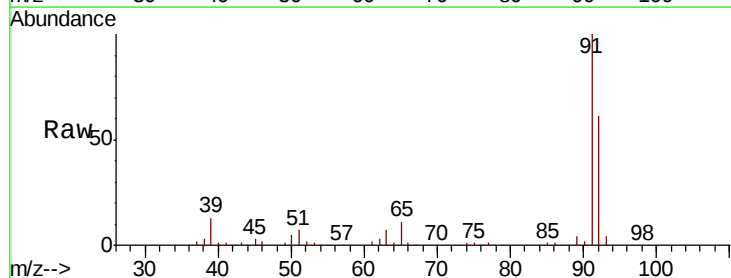
Acq: 10 Dec 2018 10:17

Tgt Ion: 92 Resp: 1885184

Ion Ratio Lower Upper

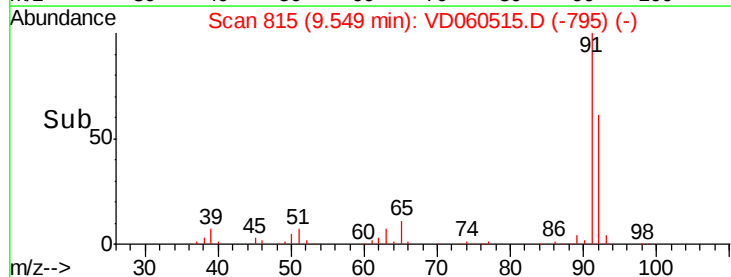
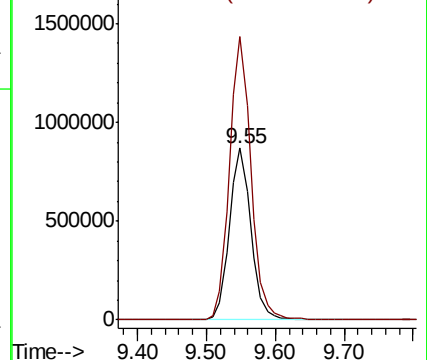
92 100

91 165.0 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

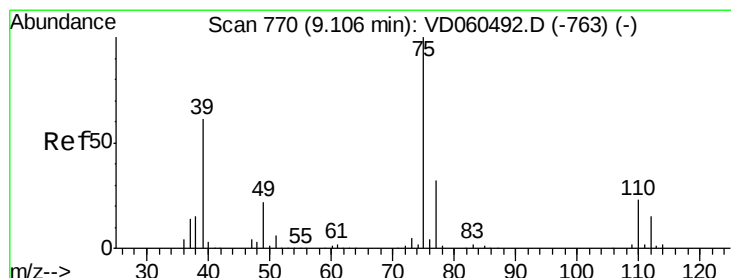
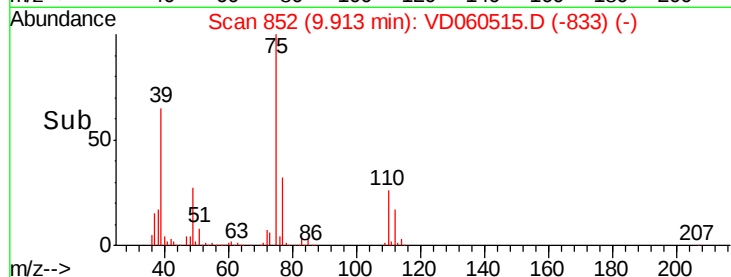
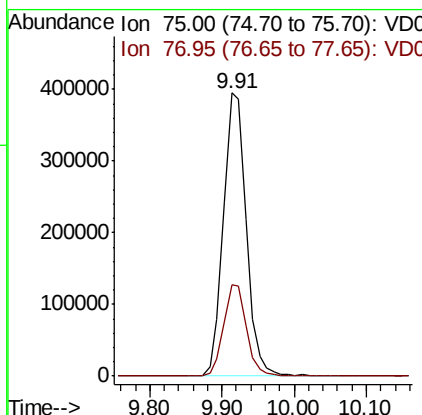
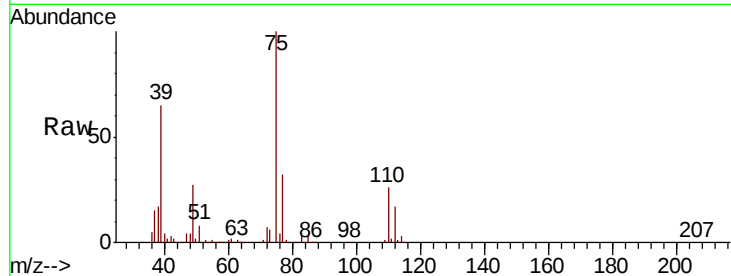




#53
 t-1,3-Dichloropropene
 Concen: 50.272 ug/l
 RT: 9.91 min Scan# 852
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

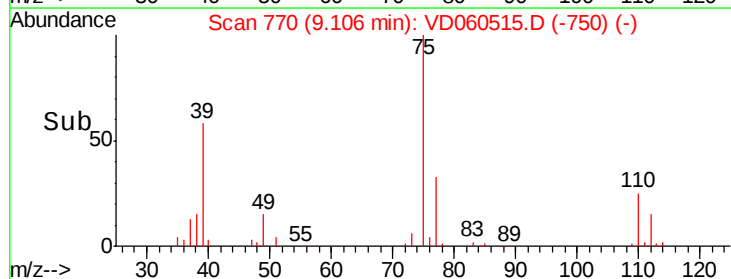
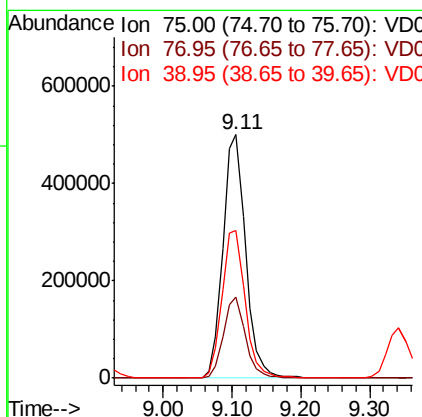
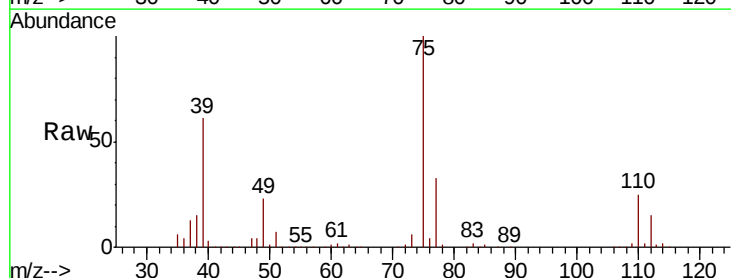
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

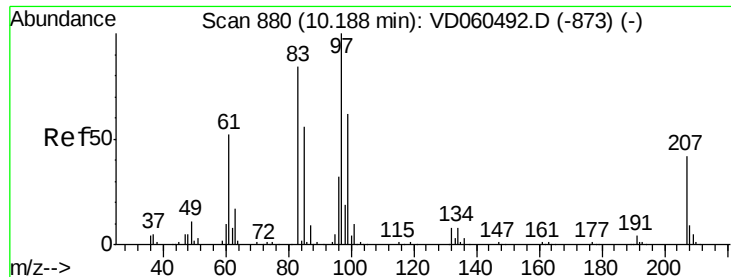
Tot Ion: 75 Resp: 869330
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.2 39.2



#54
 cis-1,3-Dichloropropene
 Concen: 50.169 ug/l
 RT: 9.11 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 75 Resp: 1139839
 Ion Ratio Lower Upper
 75 100
 77 33.1 25.6 38.4
 39 60.8 48.6 73.0

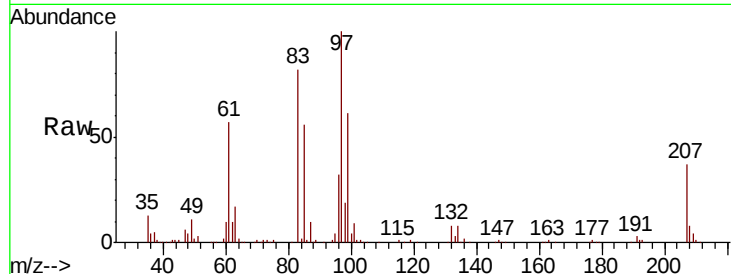




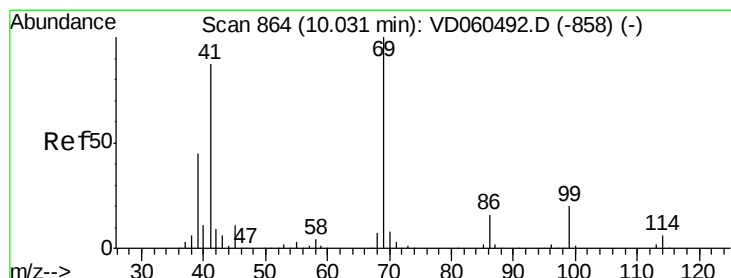
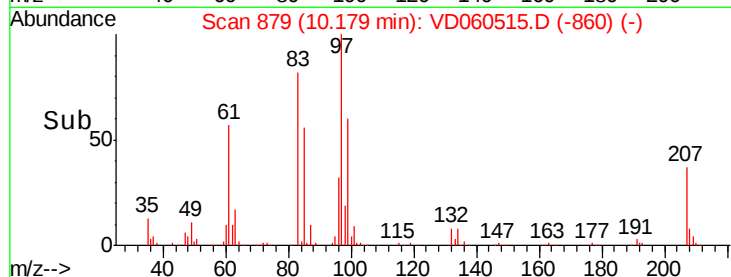
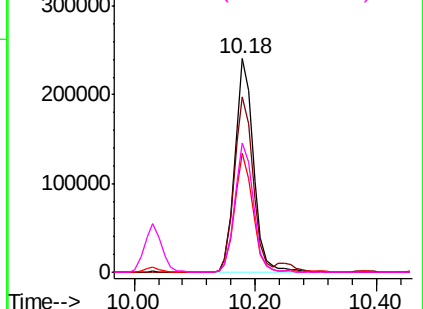
#55
 1,1,2-Trichloroethane
 Concen: 47.402 ug/l
 RT: 10.18 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 97 Resp: 512121
 Ion Ratio Lower Upper
 97 100
 83 82.2 67.2 100.8
 85 55.6 44.5 66.7
 99 60.6 49.3 73.9

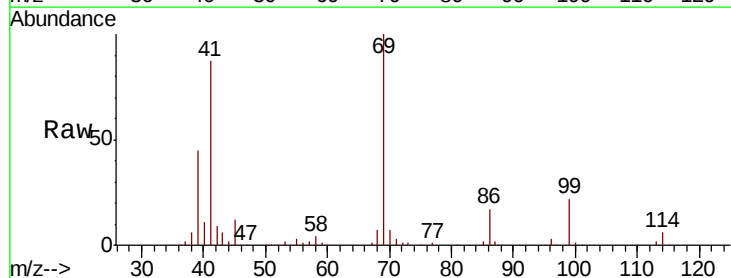


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

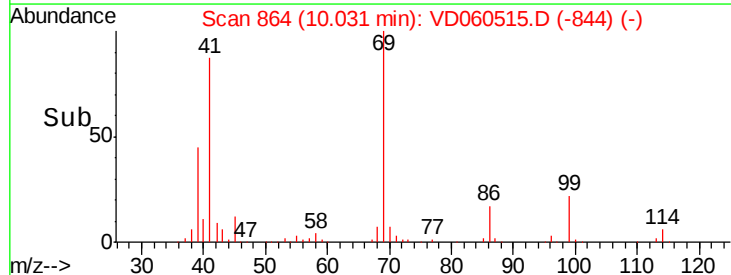
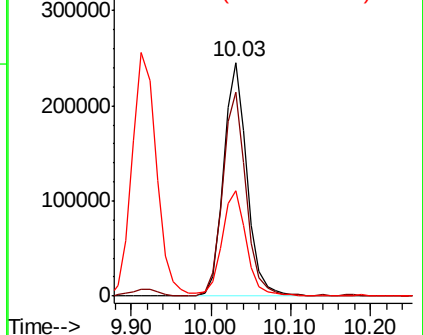


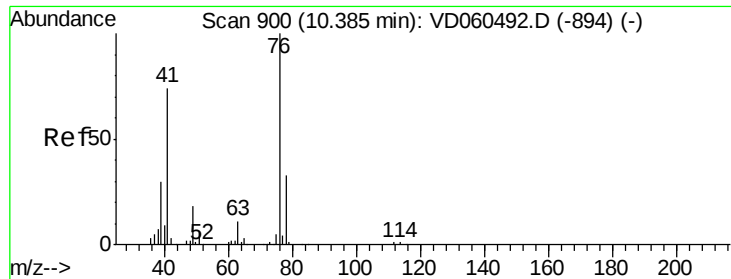
#56
 Ethyl methacrylate
 Concen: 51.970 ug/l
 RT: 10.03 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 69 Resp: 508143
 Ion Ratio Lower Upper
 69 100
 41 87.2 69.8 104.8
 39 45.0 37.5 56.3



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: 48.455 ug/l

RT: 10.39 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

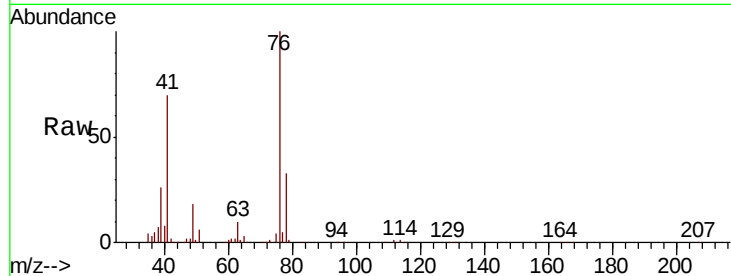
VSTDCCC050

Tot Ion: 76 Resp: 809258

Ion Ratio Lower Upper

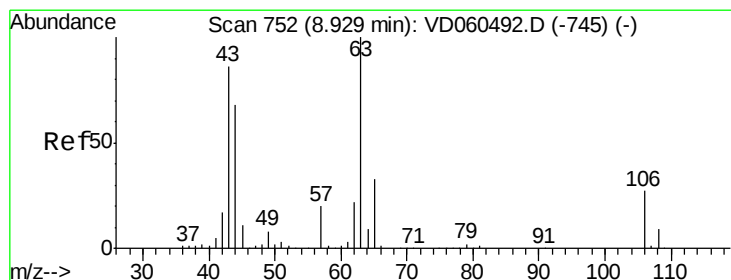
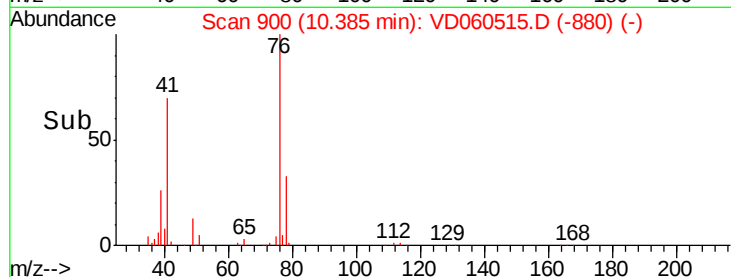
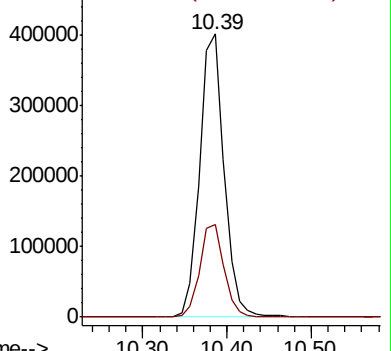
76 100

78 32.8 26.1 39.1



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 266.747 ug/l

RT: 8.92 min Scan# 751

Delta R.T. -0.01 min

Lab File: VD060515.D

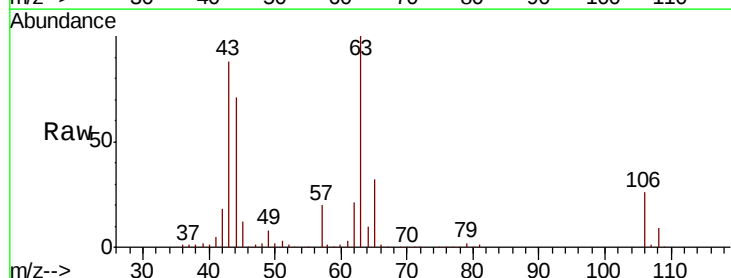
Acq: 10 Dec 2018 10:17

Tgt Ion: 63 Resp: 1560578

Ion Ratio Lower Upper

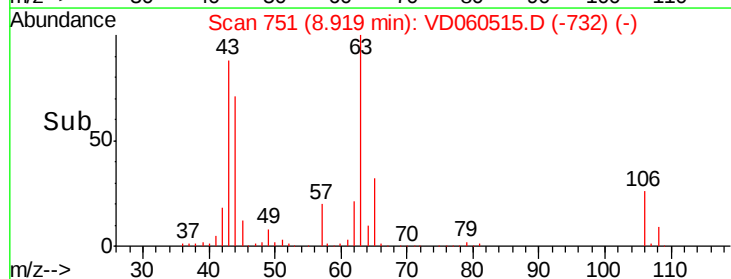
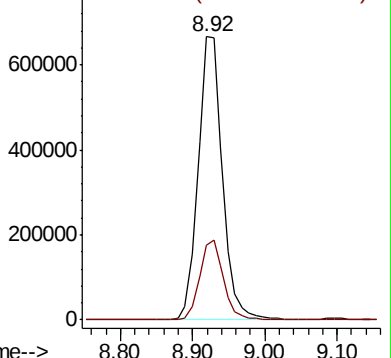
63 100

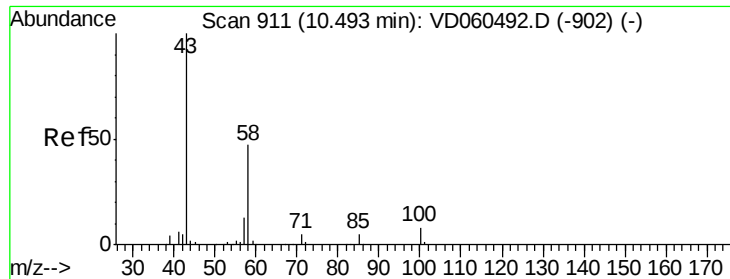
106 26.2 21.6 32.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

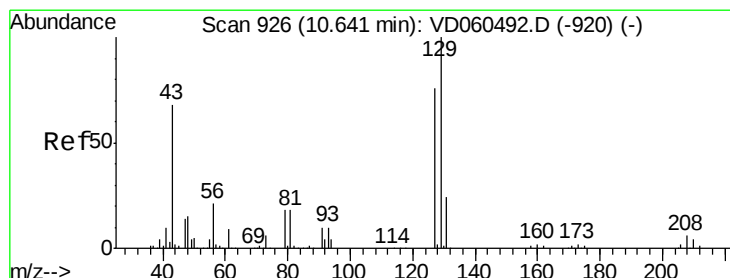
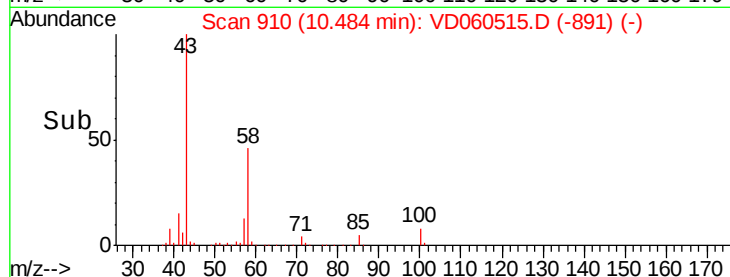
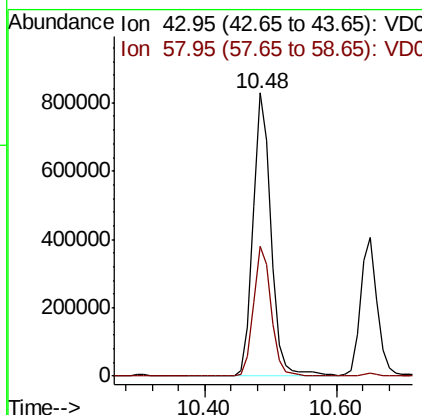
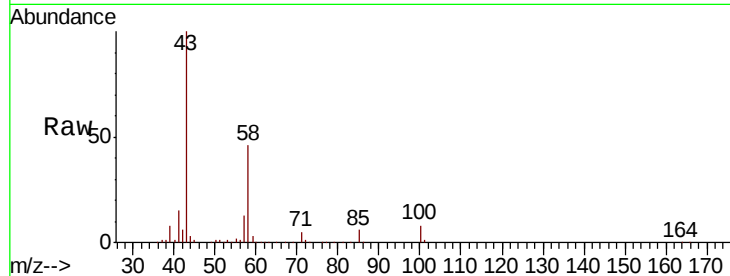




#59
2-Hexanone
Concen: 281.229 ug/l
RT: 10.48 min Scan# 910
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

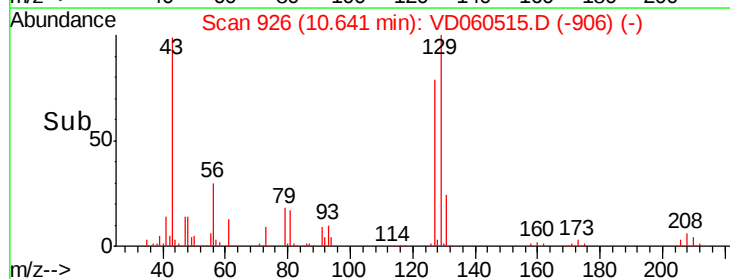
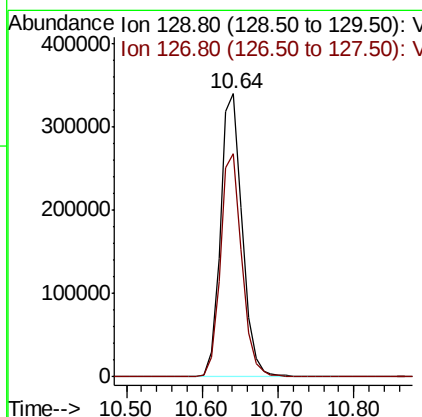
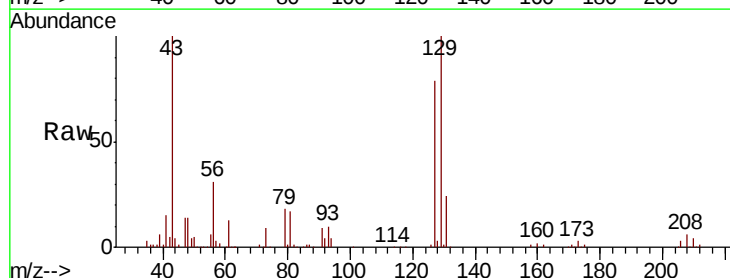
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

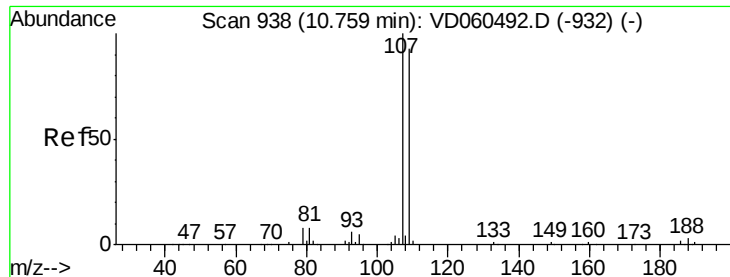
Tot Ion: 43 Resp: 1589853
Ion Ratio Lower Upper
43 100
58 45.8 23.4 70.2



#60
Dibromochloromethane
Concen: 50.106 ug/l
RT: 10.64 min Scan# 926
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 129 Resp: 676817
Ion Ratio Lower Upper
129 100
127 79.1 38.1 114.3





#61

1,2-Dibromoethane

Concen: 49.504 ug/l

RT: 10.76 min Scan# 938

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

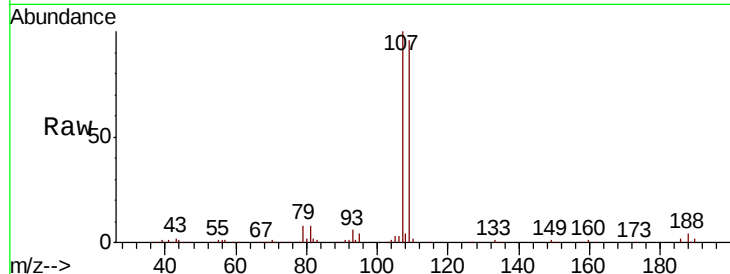
VSTDCCC050

Tot Ion:107 Resp: 545042

Ion Ratio Lower Upper

107 100

109 96.5 74.7 112.1



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.76

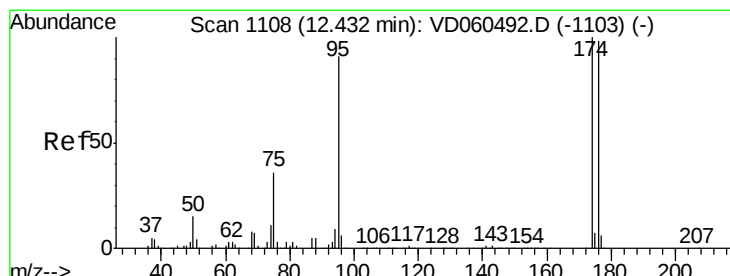
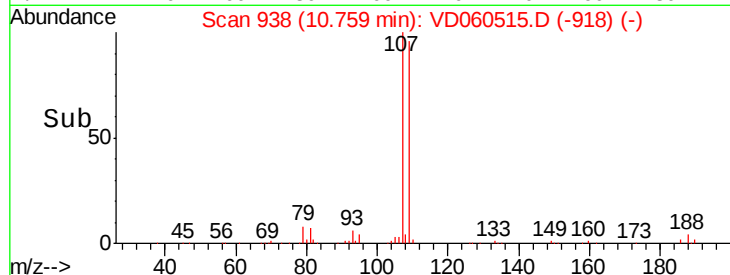
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.504 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

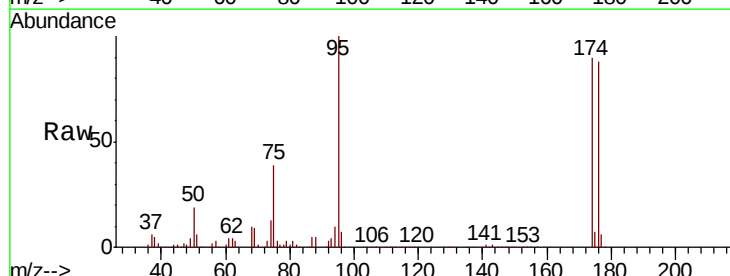
Tgt Ion: 95 Resp: 949434

Ion Ratio Lower Upper

95 100

174 89.6 0.0 219.4

176 87.7 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

800000

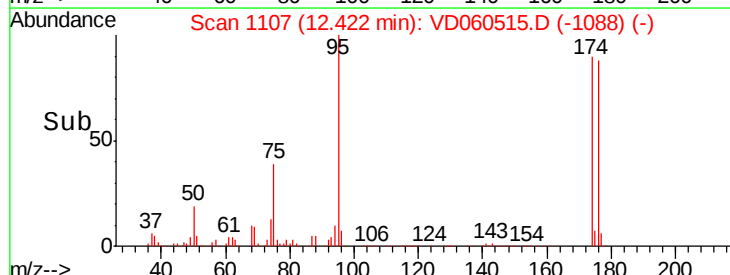
600000

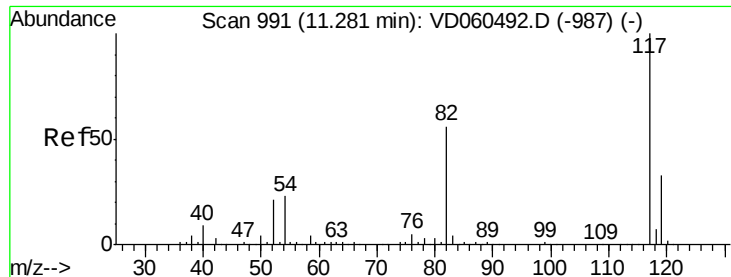
400000

200000

0

Time-->

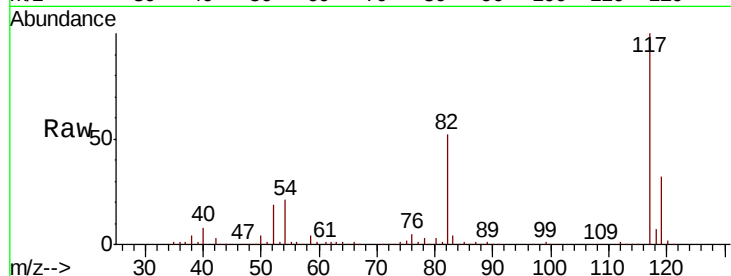




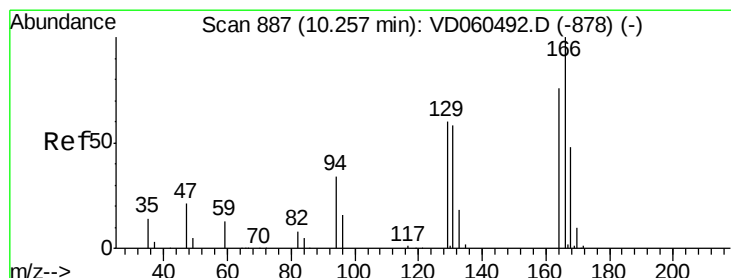
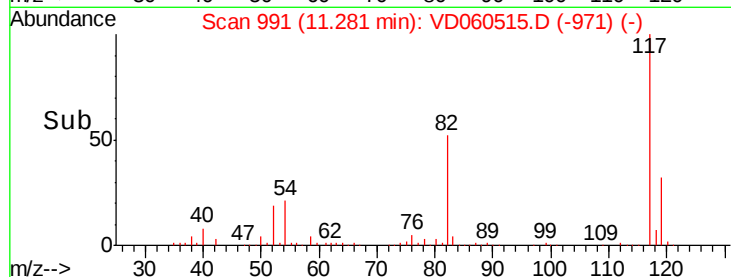
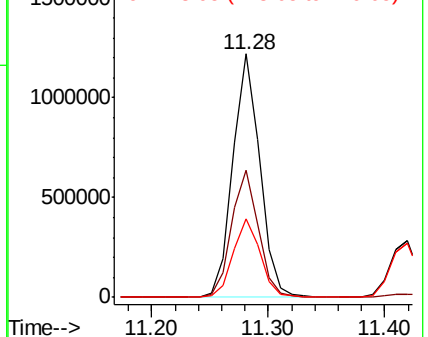
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1960749
Ion Ratio Lower Upper
117 100
82 52.2 45.2 67.8
119 32.4 26.1 39.1

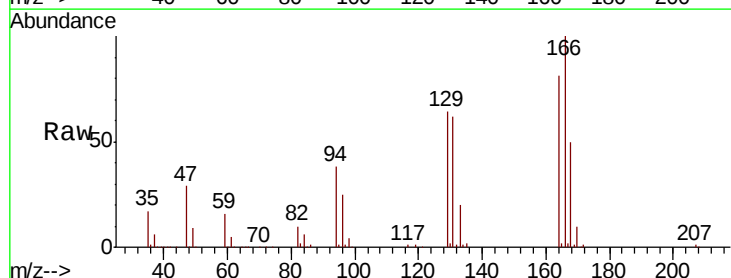


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

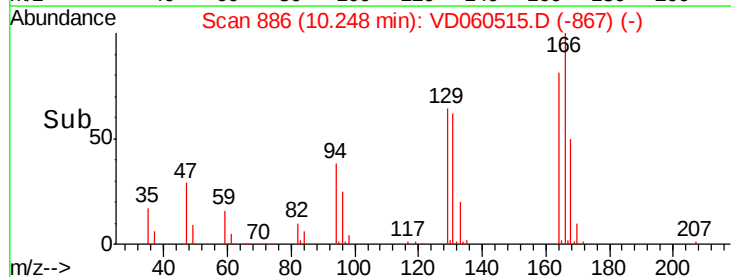
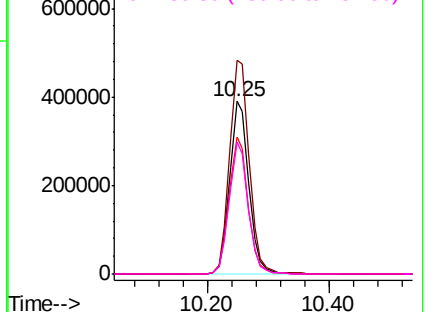


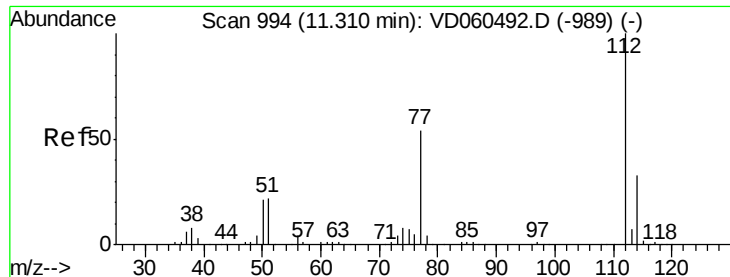
#64
Tetrachloroethene
Concen: 49.320 ug/l
RT: 10.25 min Scan# 886
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion:164 Resp: 856301
Ion Ratio Lower Upper
164 100
166 123.8 105.0 157.6
129 79.5 63.0 94.4
131 76.3 60.6 90.8



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: 48.523 ug/l

RT: 11.31 min Scan# 994

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

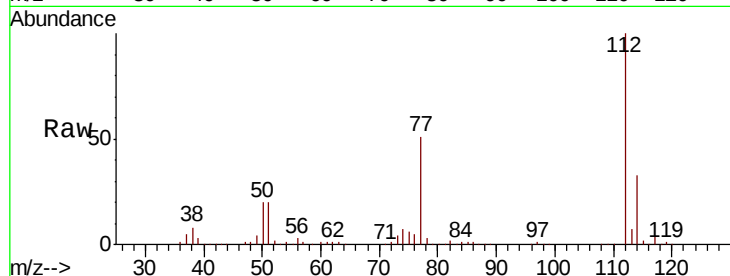
VSTDCCC050

Tot Ion:112 Resp: 2012774

Ion Ratio Lower Upper

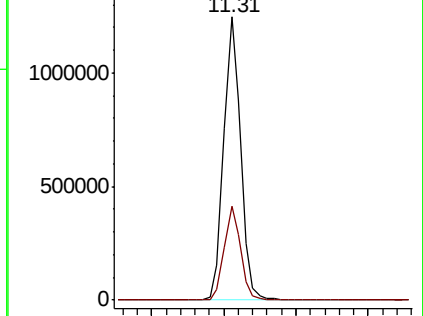
112 100

114 33.1 26.2 39.4

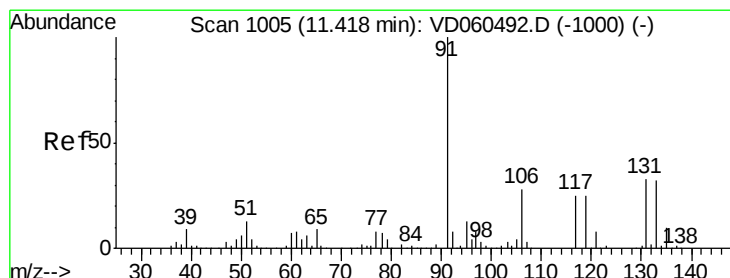
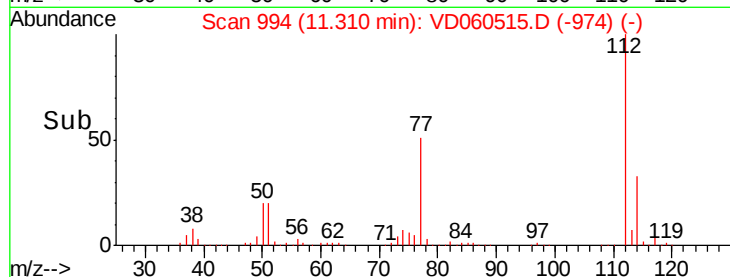


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 47.897 ug/l

RT: 11.42 min Scan# 1005

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

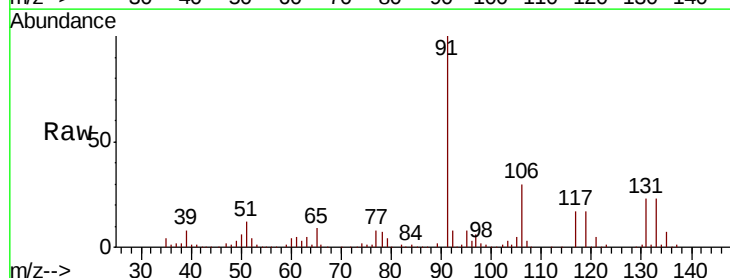
Tgt Ion:131 Resp: 640383

Ion Ratio Lower Upper

131 100

133 97.9 49.1 147.3

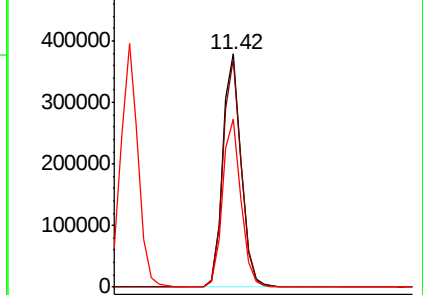
119 72.3 37.5 112.3



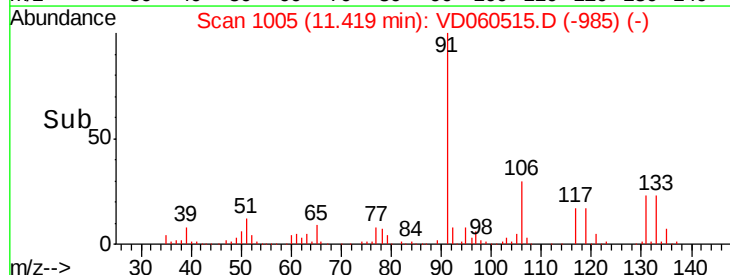
Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V



Time-->

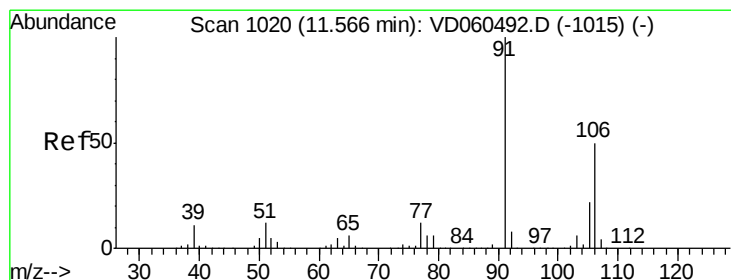
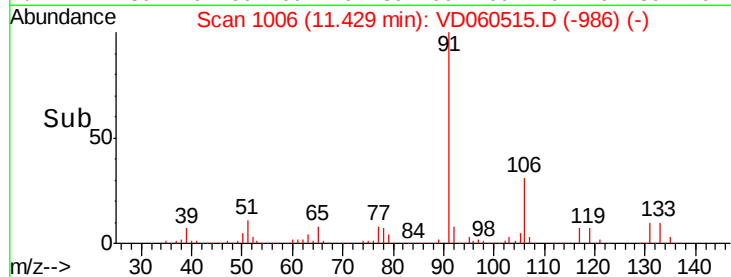
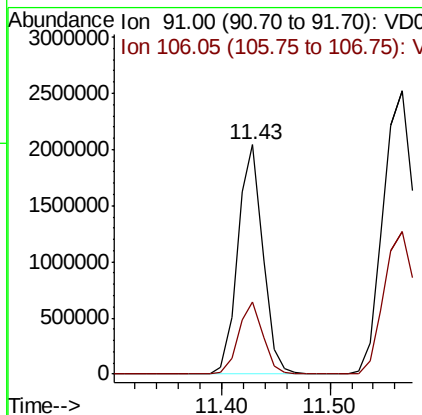
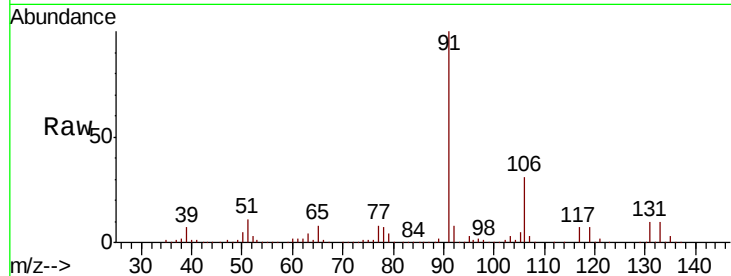




#67
Ethyl Benzene
Concen: 46.314 ug/l
RT: 11.43 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

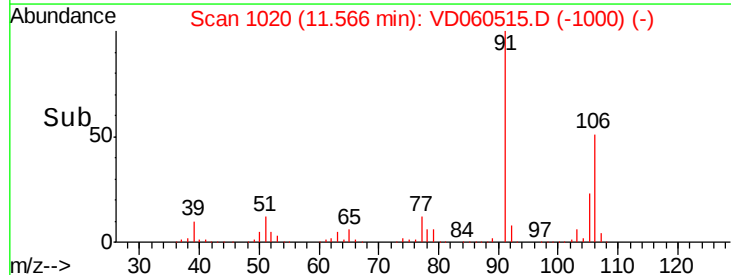
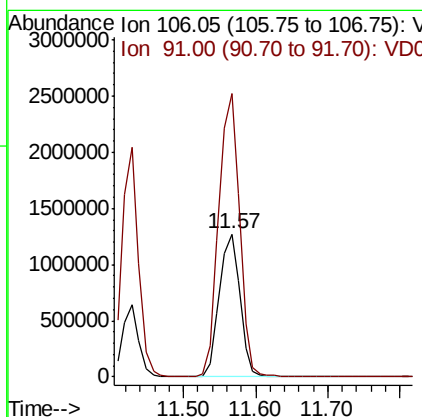
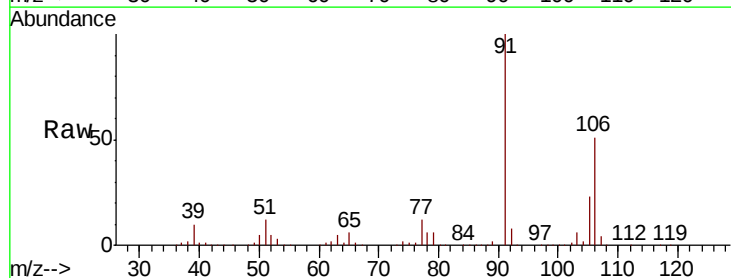
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

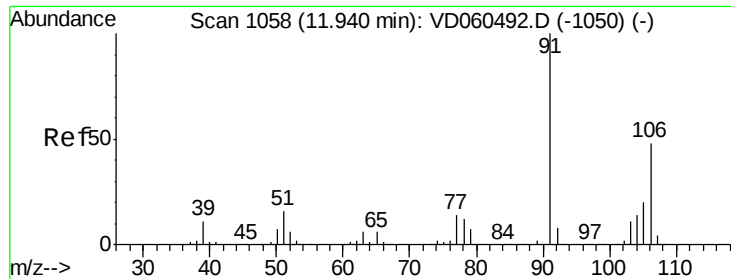
Tot Ion: 91 Resp: 3276875
Ion Ratio Lower Upper
91 100
106 31.3 24.6 37.0



#68
m/p-Xylenes
Concen: 95.866 ug/l
RT: 11.57 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 106 Resp: 2509372
Ion Ratio Lower Upper
106 100
91 197.8 160.5 240.7

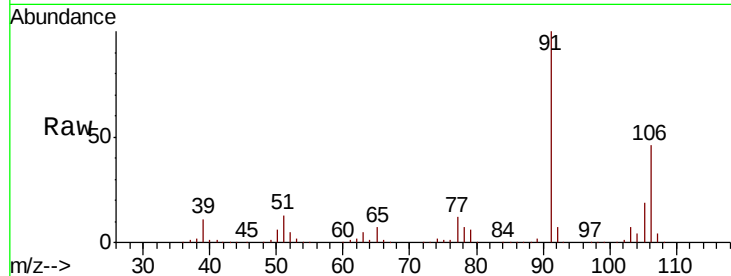




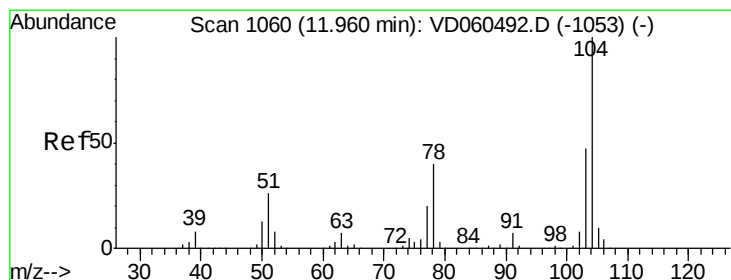
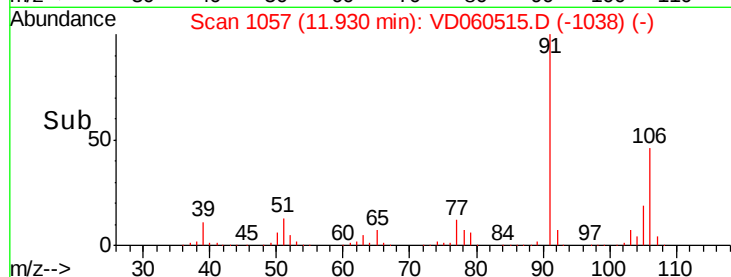
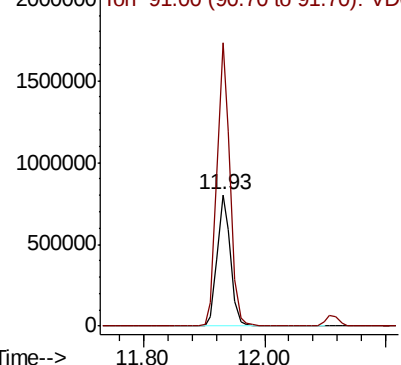
#69
o-Xylene
Concen: 48.852 ug/l
RT: 11.93 min Scan# 1057
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1218642
Ion Ratio Lower Upper
106 100
91 216.0 103.4 310.1

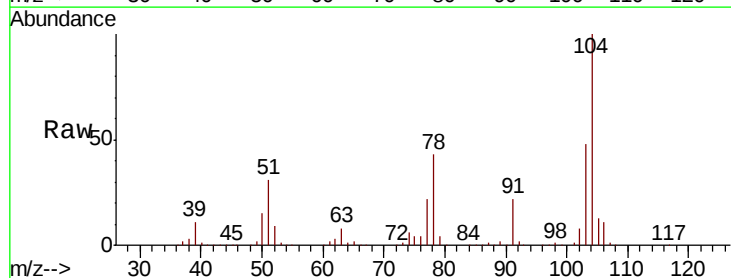


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

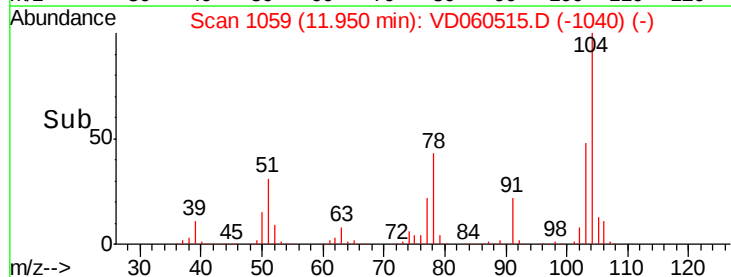
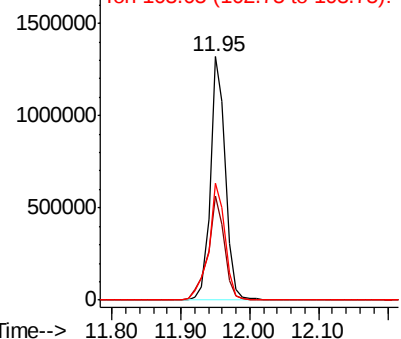


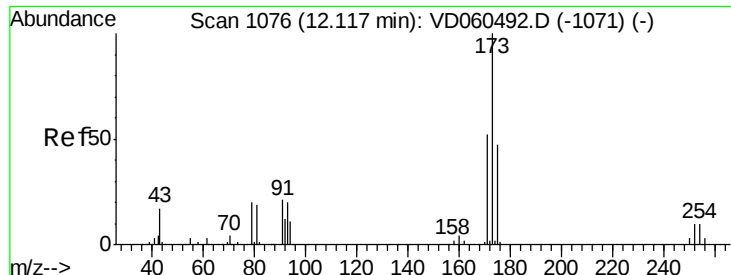
#70
Styrene
Concen: 49.338 ug/l
RT: 11.95 min Scan# 1059
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion:104 Resp: 1975529
Ion Ratio Lower Upper
104 100
78 42.5 32.1 48.1
103 48.1 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: 50.509 ug/l

RT: 12.12 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

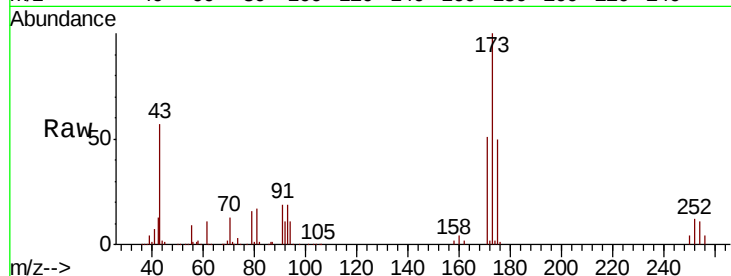
Tot Ion:173 Resp: 450533

Ion Ratio Lower Upper

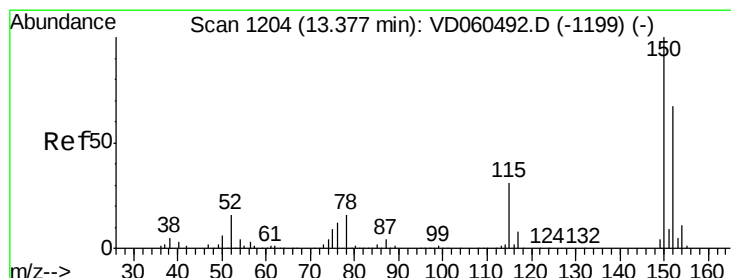
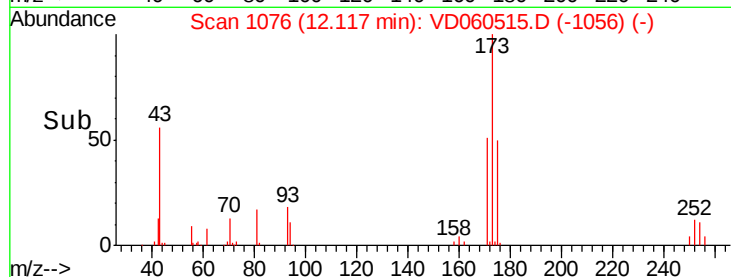
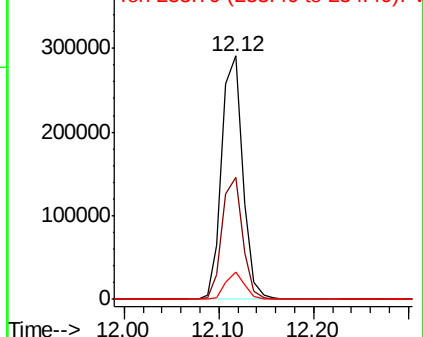
173 100

175 50.3 23.5 70.6

254 11.4 7.8 11.8



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

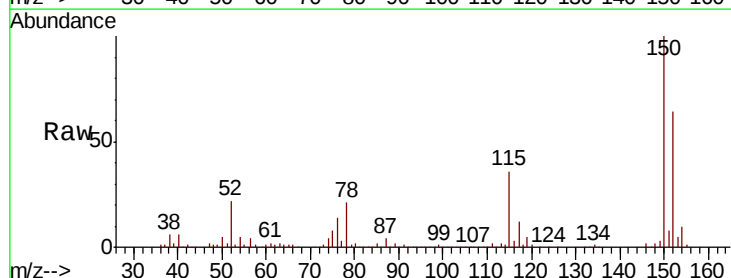
Tgt Ion:152 Resp: 949950

Ion Ratio Lower Upper

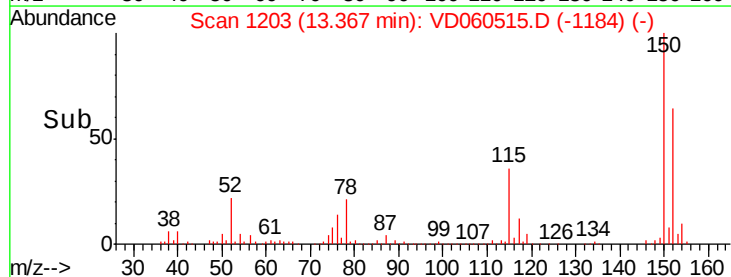
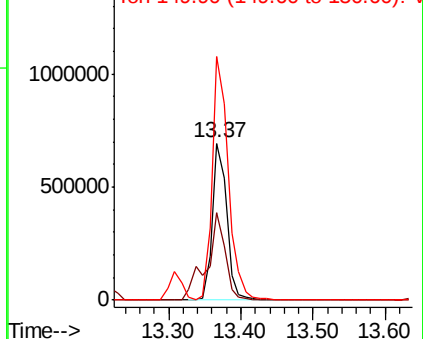
152 100

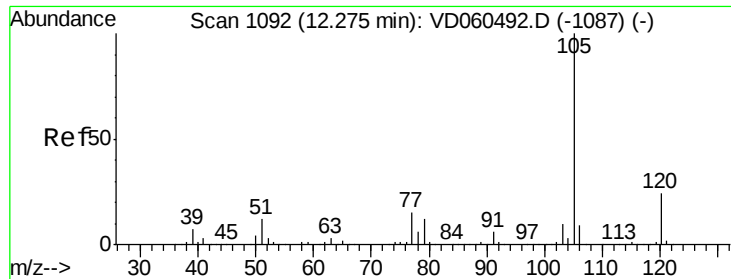
115 55.7 24.6 74.0

150 155.3 0.0 309.0



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

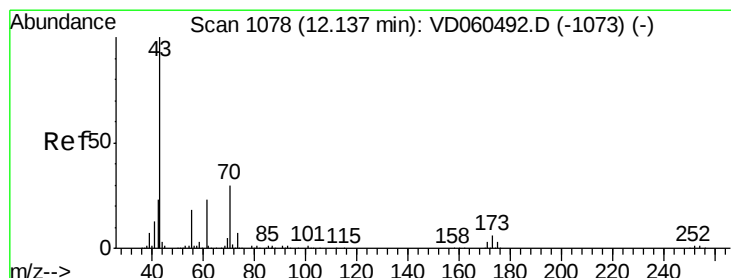
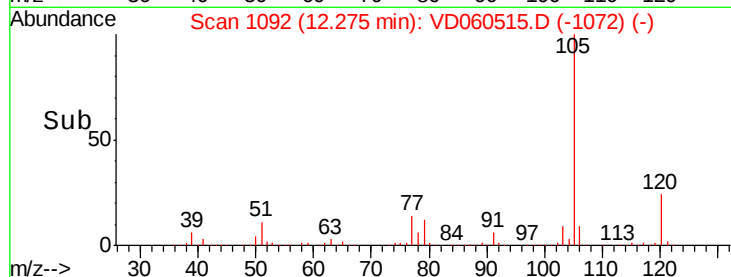
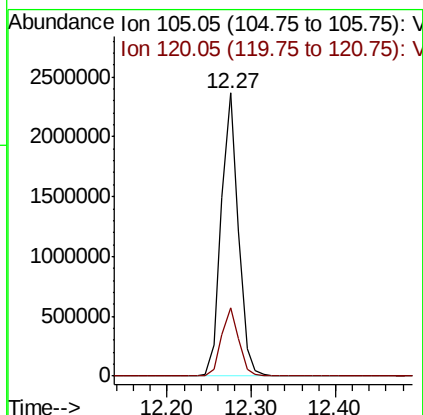
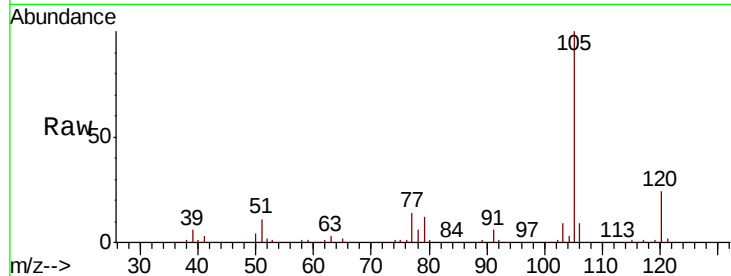




#73
Isopropylbenzene
Concen: 49.861 ug/l
RT: 12.27 min Scan# 1092
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

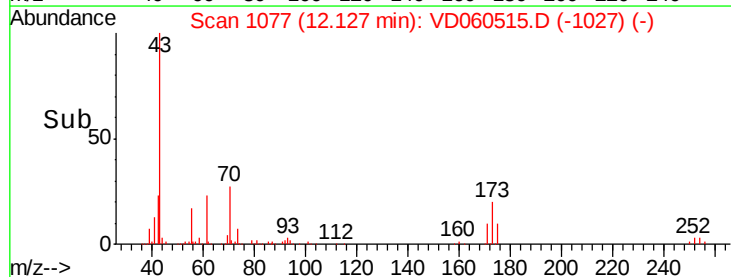
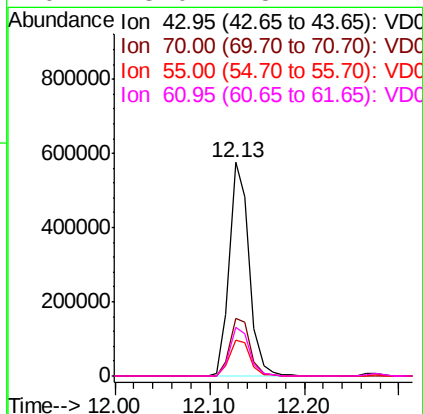
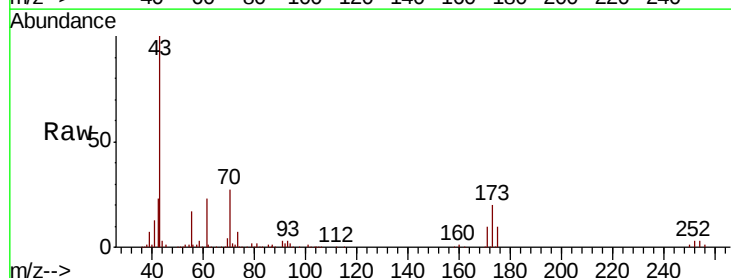
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

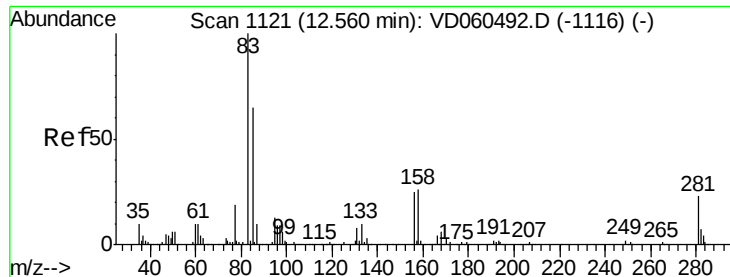
Tot Ion:105 Resp: 3351766
Ion Ratio Lower Upper
105 100
120 24.3 11.9 35.9



#74
N-ethyl acetate
Concen: 51.268 ug/l
RT: 12.13 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 43 Resp: 832913
Ion Ratio Lower Upper
43 100
70 26.7 23.8 35.8
55 17.1 14.2 21.2
61 23.0 18.1 27.1





#75

1,1,2,2-Tetrachloroethane

Concen: 49.447 ug/l

RT: 12.56 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

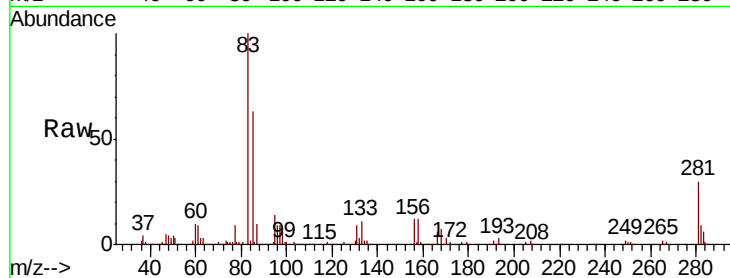
Tot Ion: 83 Resp: 532133

Ion Ratio Lower Upper

83 100

131 8.6 3.8 11.4

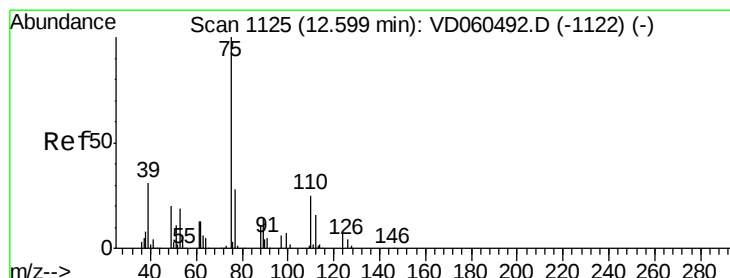
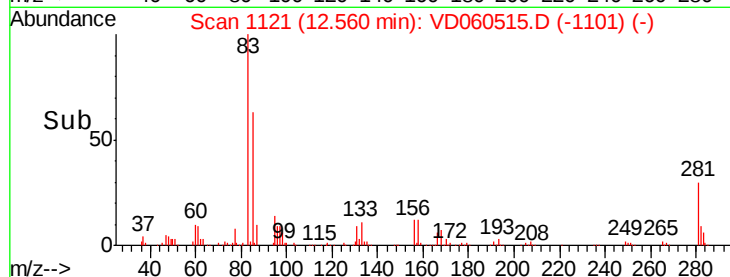
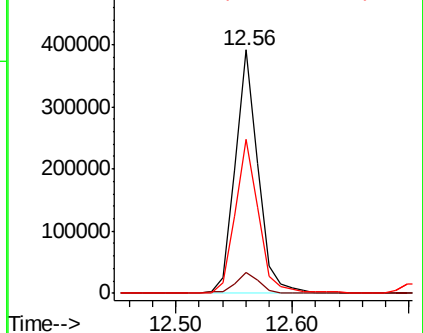
85 63.2 32.3 96.9



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: 49.895 ug/l

RT: 12.59 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VD060515.D

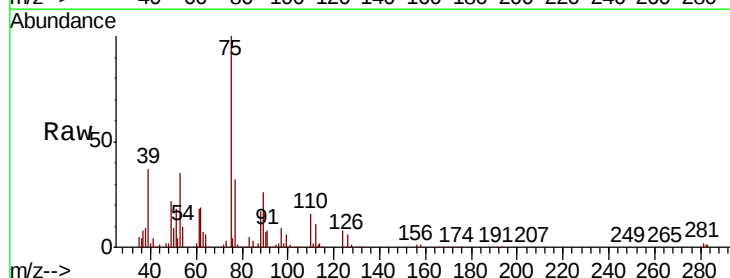
Acq: 10 Dec 2018 10:17

Tgt Ion: 75 Resp: 537050

Ion Ratio Lower Upper

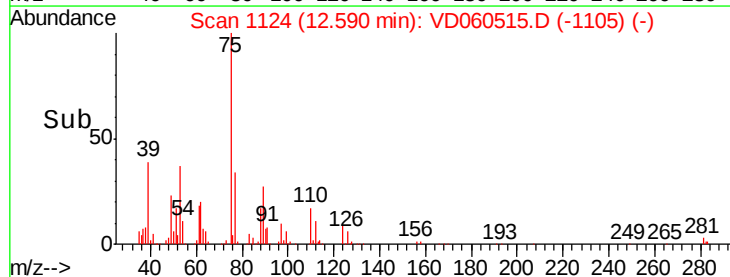
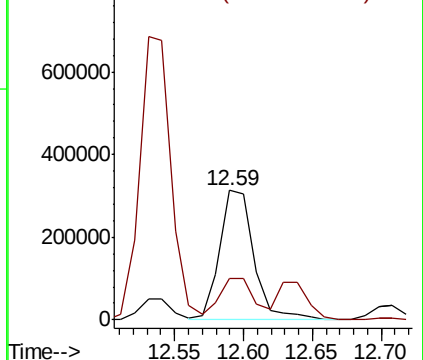
75 100

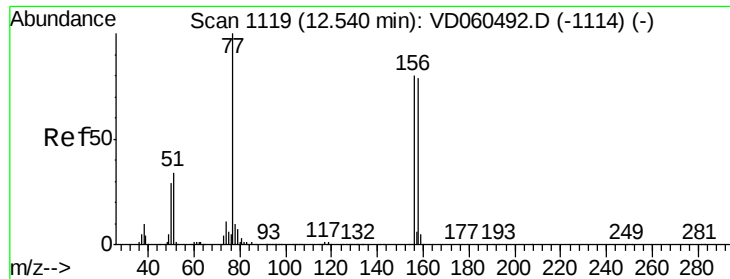
77 32.3 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 49.810 ug/l

RT: 12.54 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

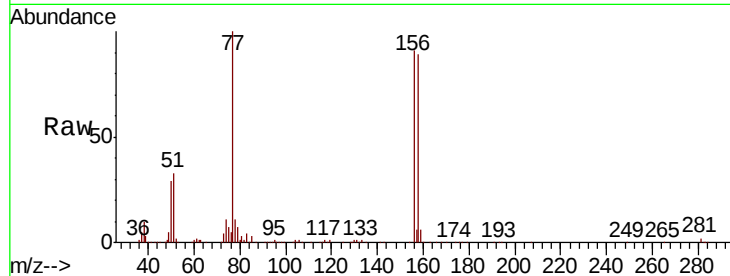
Tot Ion:156 Resp: 880132

Ion Ratio Lower Upper

156 100

77 110.2 62.5 187.6

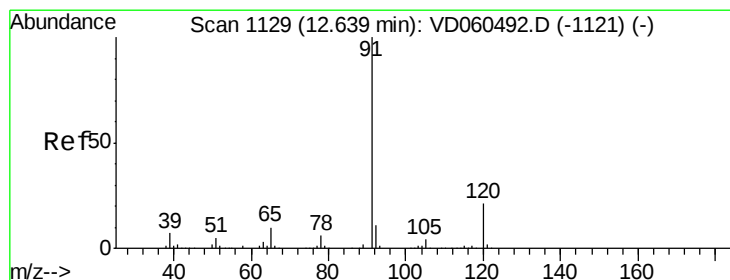
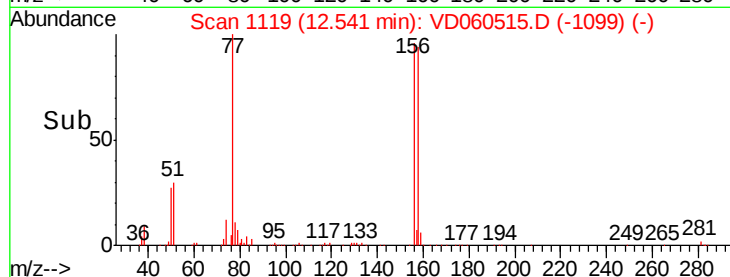
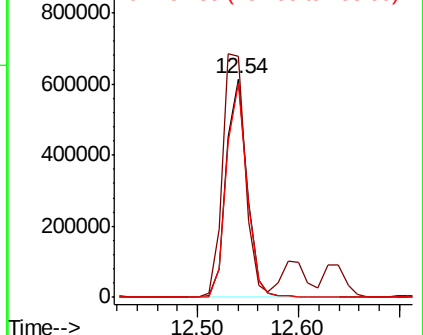
158 98.0 49.4 148.2



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 49.360 ug/l

RT: 12.64 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VD060515.D

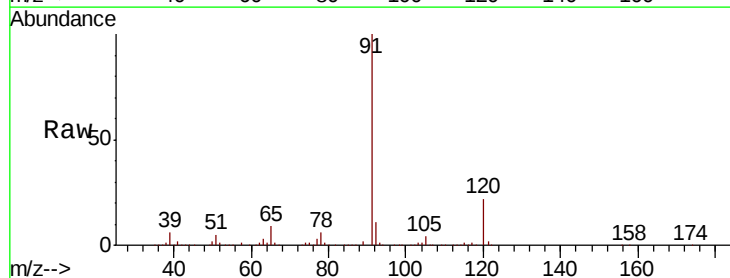
Acq: 10 Dec 2018 10:17

Tgt Ion: 91 Resp: 4194347

Ion Ratio Lower Upper

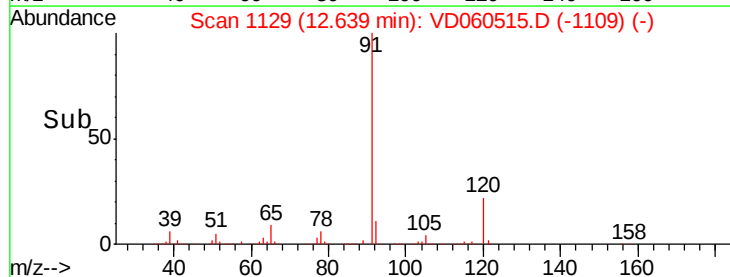
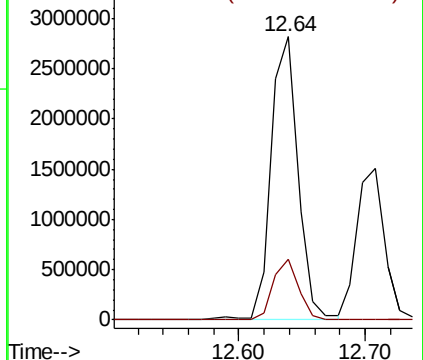
91 100

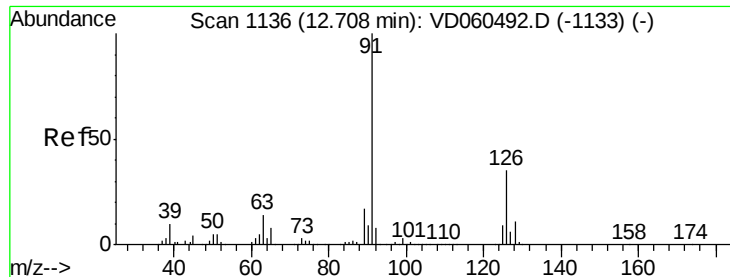
120 21.6 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 49.387 ug/l

RT: 12.71 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

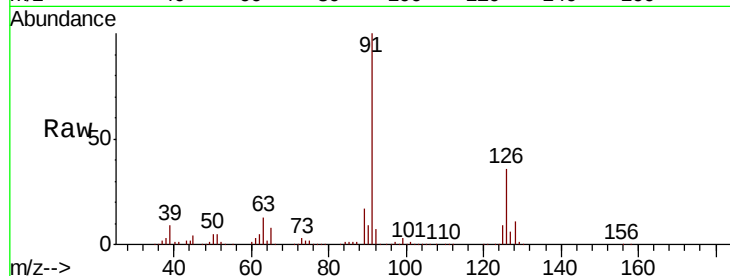
VSTDCCC050

Tot Ion: 91 Resp: 2277213

Ion Ratio Lower Upper

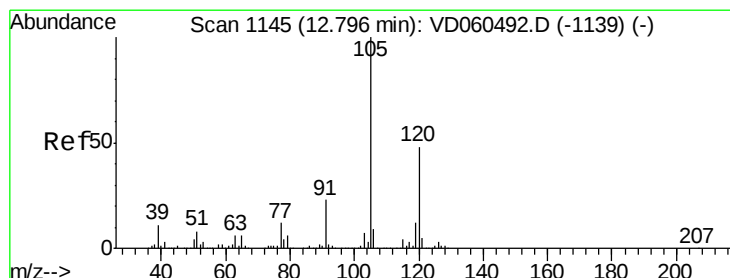
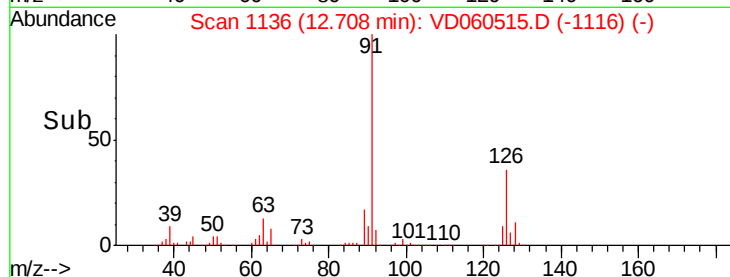
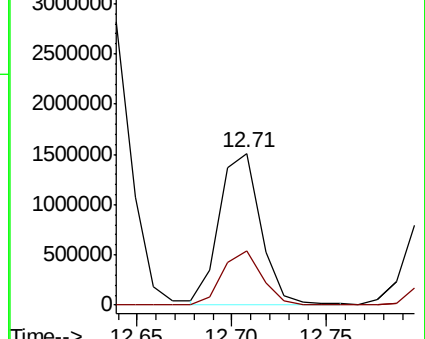
91 100

126 35.7 17.3 52.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 49.158 ug/l

RT: 12.79 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VD060515.D

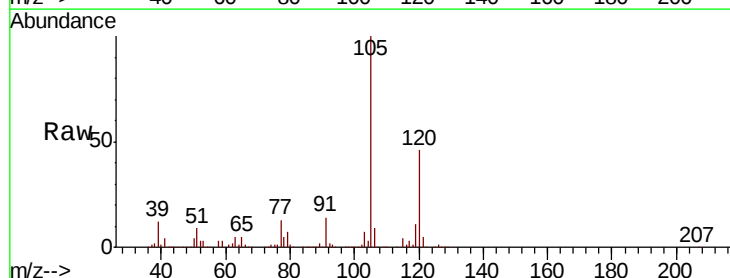
Acq: 10 Dec 2018 10:17

Tgt Ion:105 Resp: 2525018

Ion Ratio Lower Upper

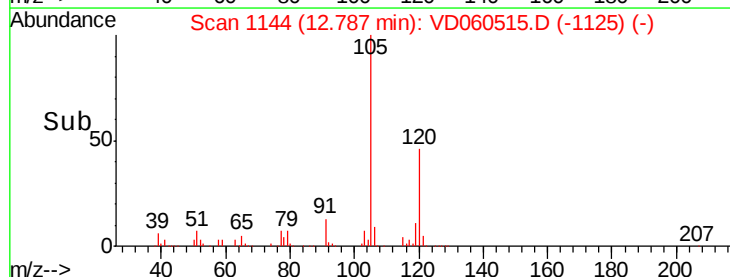
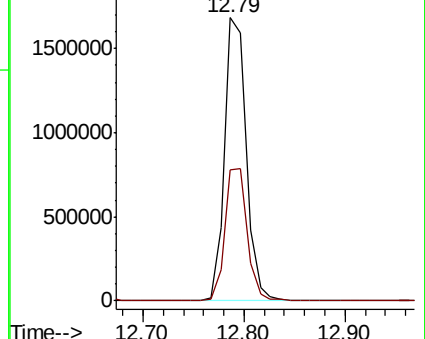
105 100

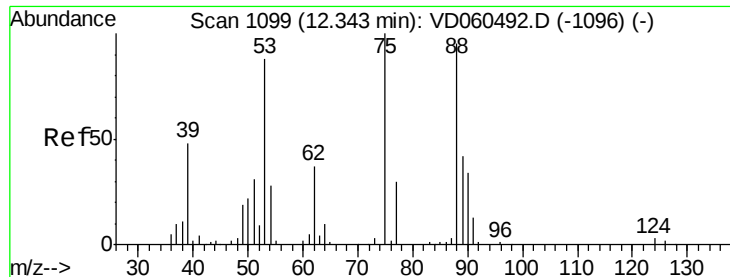
120 46.2 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 52.455 ug/l

RT: 12.34 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

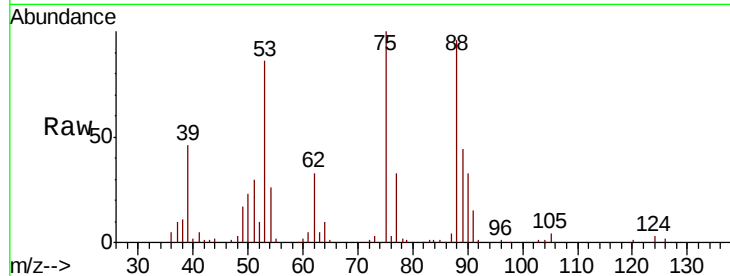
Tot Ion: 75 Resp: 157470

Ion Ratio Lower Upper

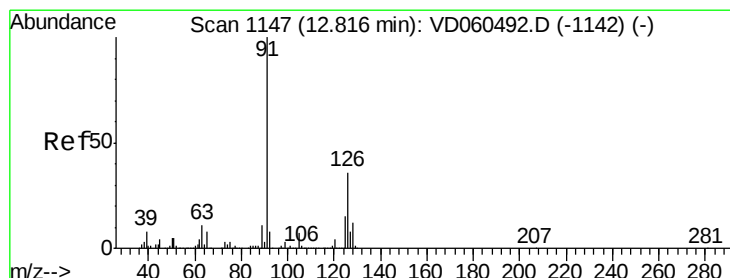
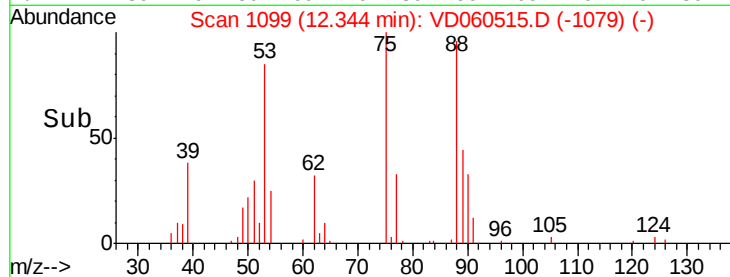
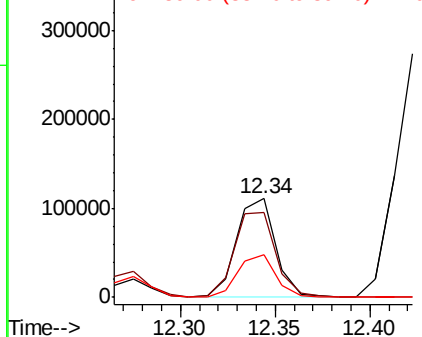
75 100

53 86.0 70.5 105.7

89 43.7 33.6 50.4



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: 47.534 ug/l

RT: 12.81 min Scan# 1146

Delta R.T. -0.01 min

Lab File: VD060515.D

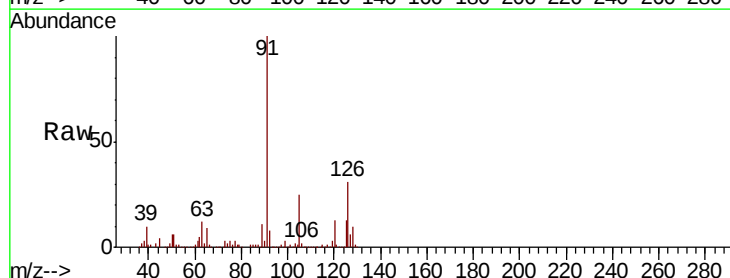
Acq: 10 Dec 2018 10:17

Tgt Ion: 91 Resp: 2461711

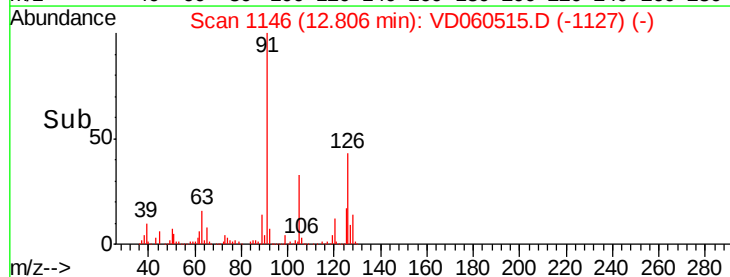
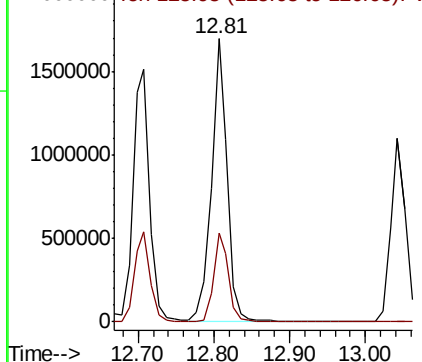
Ion Ratio Lower Upper

91 100

126 31.4 17.8 53.4



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

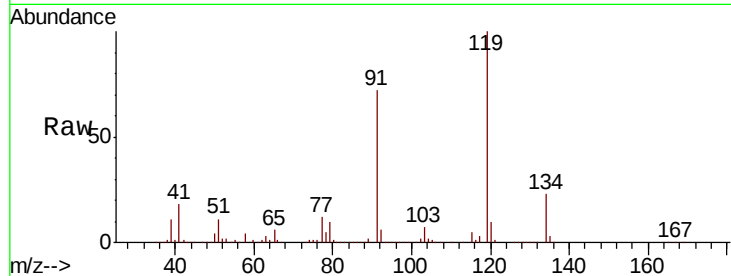




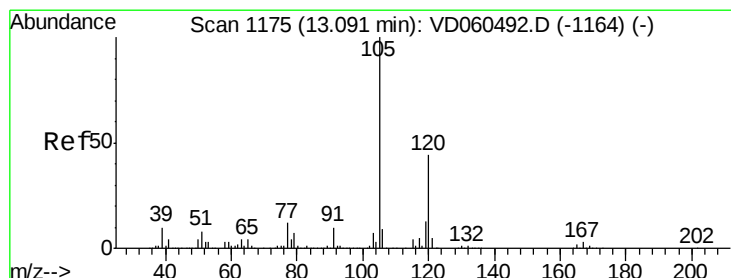
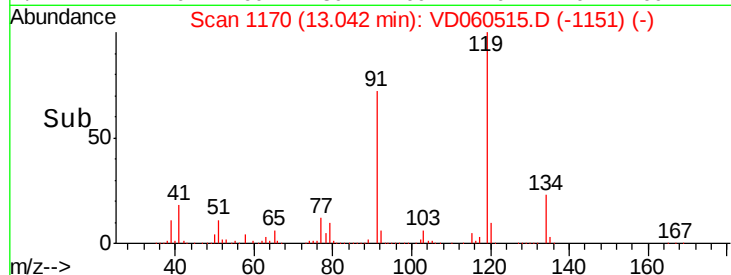
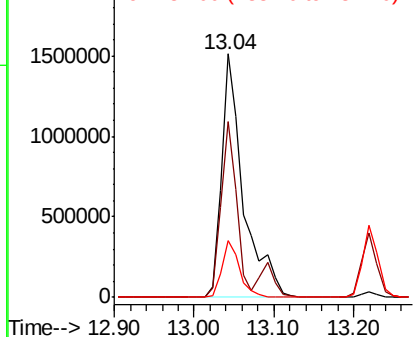
#83
tert-Butylbenzene
Concen: 50.595 ug/l
RT: 13.04 min Scan# 1170
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 2913920
Ion Ratio Lower Upper
119 100
91 72.4 33.1 99.2
134 23.1 12.0 36.0

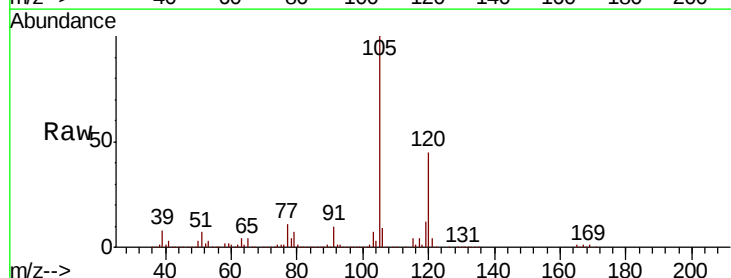


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

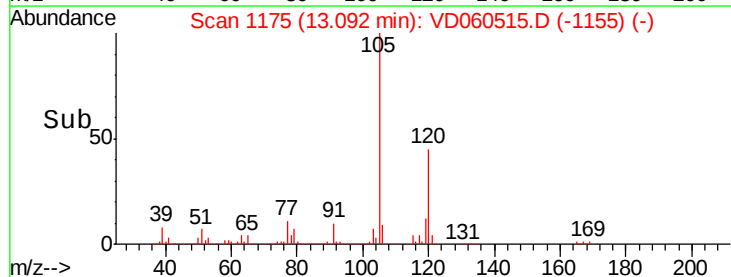
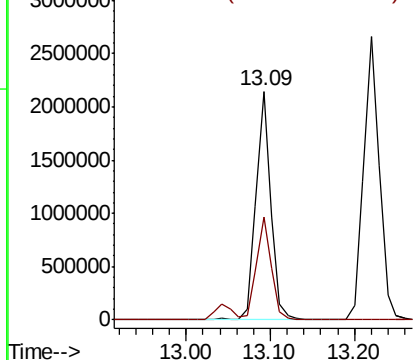


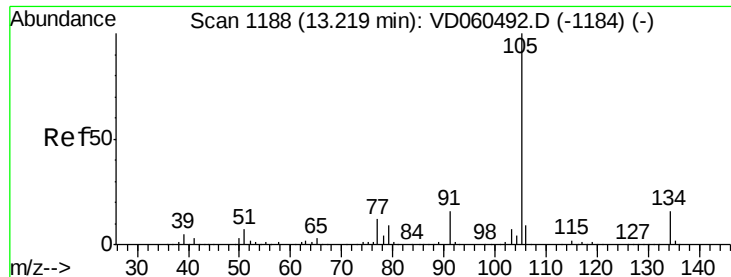
#84
1,2,4-Trimethylbenzene
Concen: 50.281 ug/l
RT: 13.09 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion:105 Resp: 2674253
Ion Ratio Lower Upper
105 100
120 44.9 22.3 66.8



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

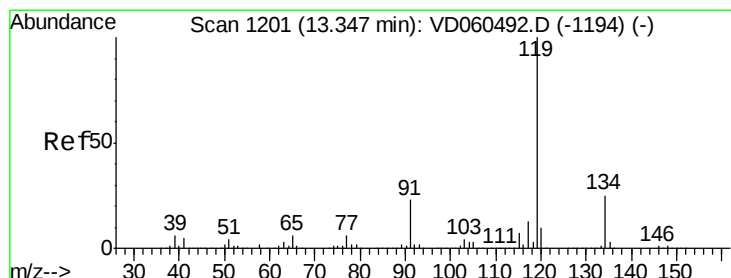
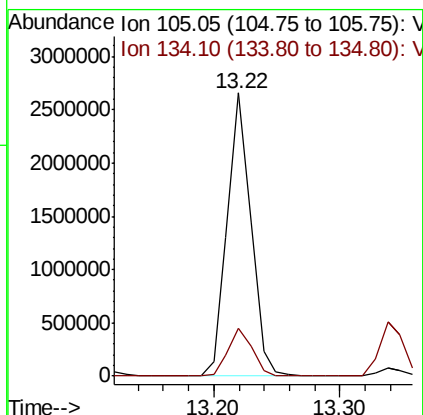
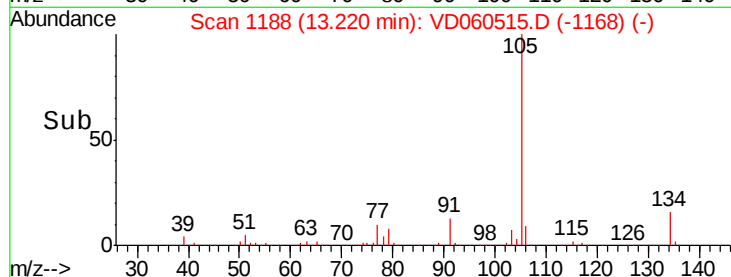
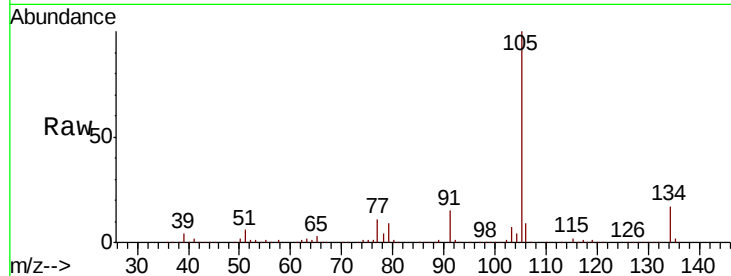




#85
 sec-Butylbenzene
 Concen: 47.974 ug/l
 RT: 13.22 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

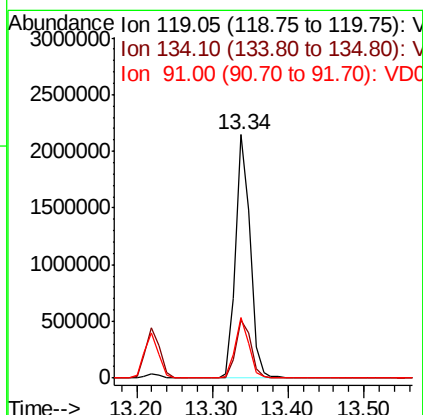
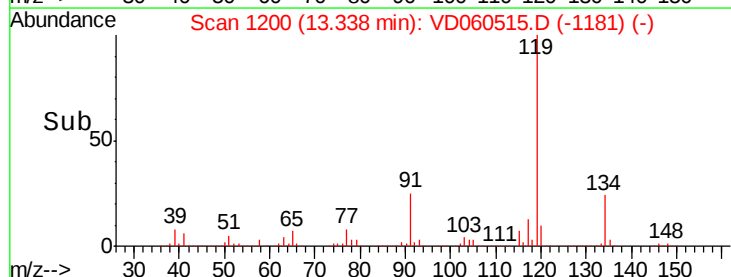
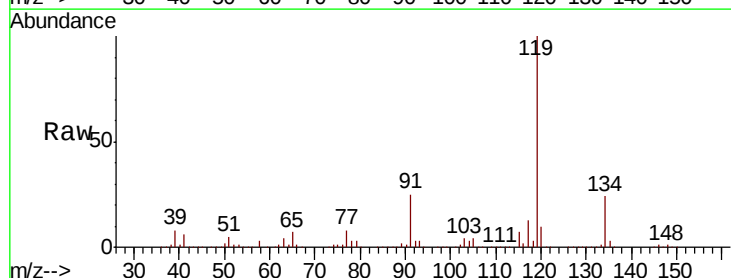
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

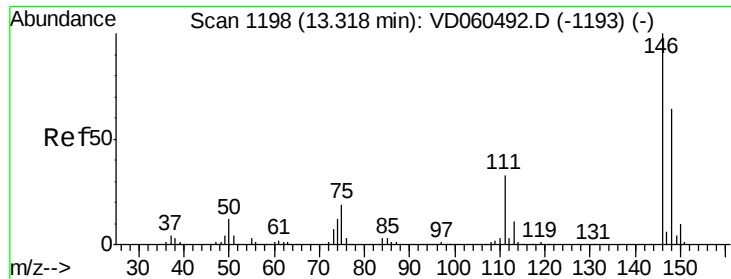
Tot Ion:105 Resp: 3443665
 Ion Ratio Lower Upper
 105 100
 134 16.9 7.9 23.7



#86
 p-Isopropyltoluene
 Concen: 49.259 ug/l
 RT: 13.34 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion:119 Resp: 2802939
 Ion Ratio Lower Upper
 119 100
 134 23.9 12.5 37.5
 91 25.0 11.5 34.4

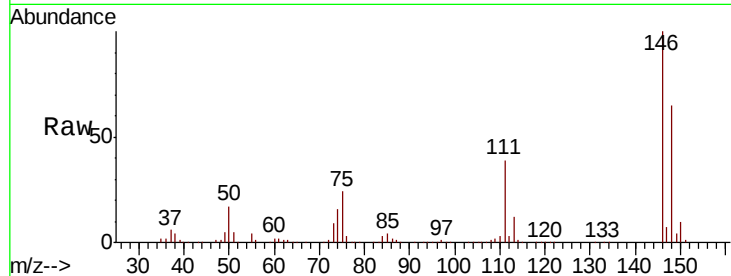




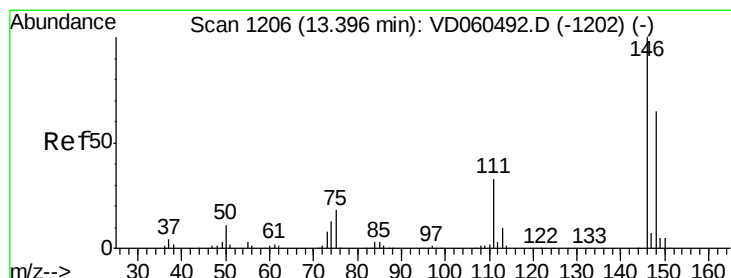
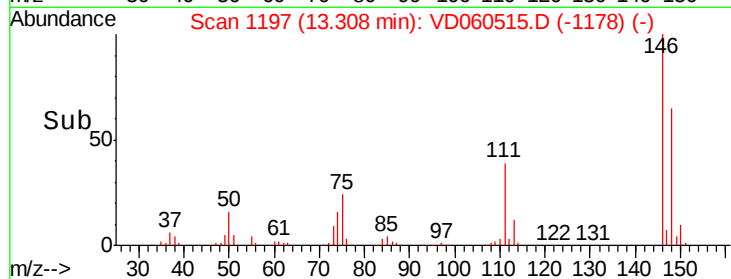
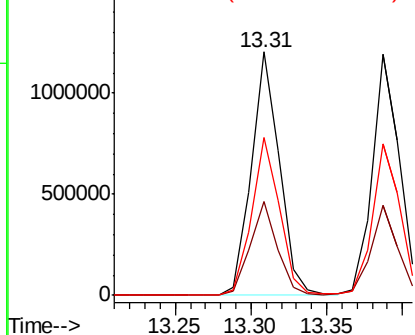
#87
 1,3-Dichlorobenzene
 Concen: 48.848 ug/l
 RT: 13.31 min Scan# 1197
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1562759
 Ion Ratio Lower Upper
 146 100
 111 38.5 16.5 49.5
 148 65.1 32.3 96.8

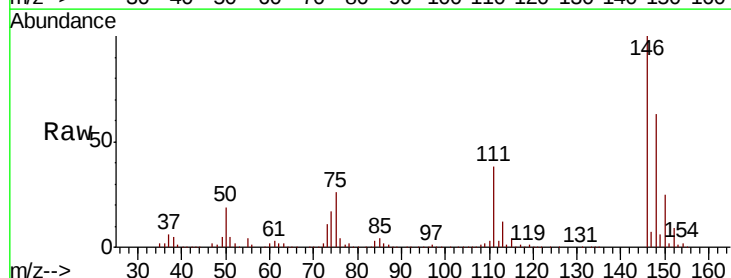


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

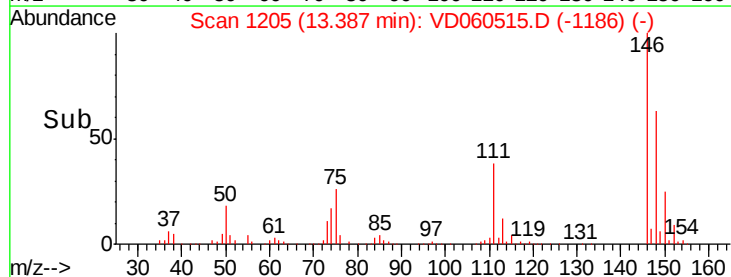
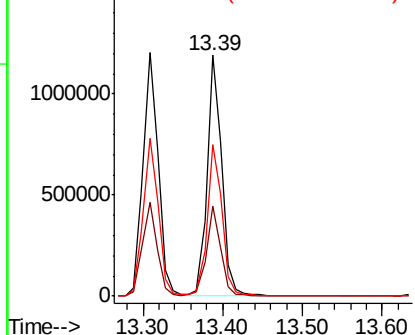


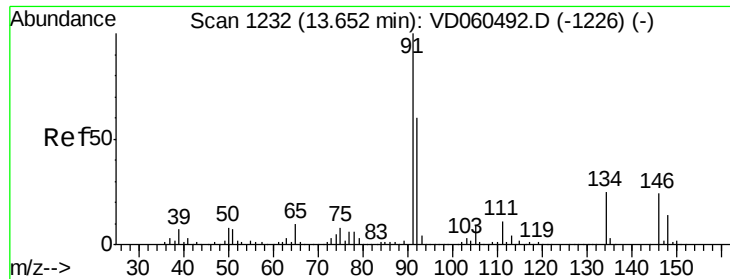
#88
 1,4-Dichlorobenzene
 Concen: 48.388 ug/l
 RT: 13.39 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion:146 Resp: 1518654
 Ion Ratio Lower Upper
 146 100
 111 37.5 16.4 49.1
 148 63.2 32.6 98.0



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

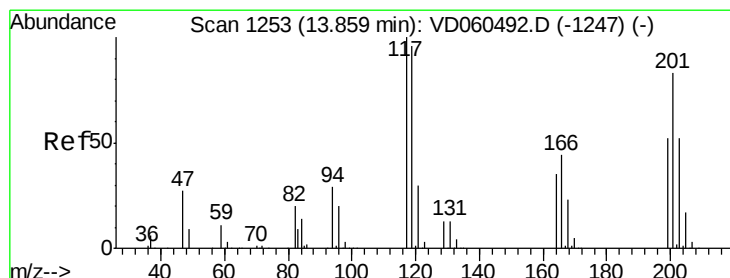
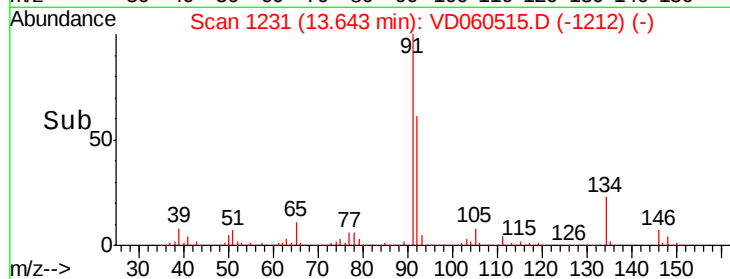
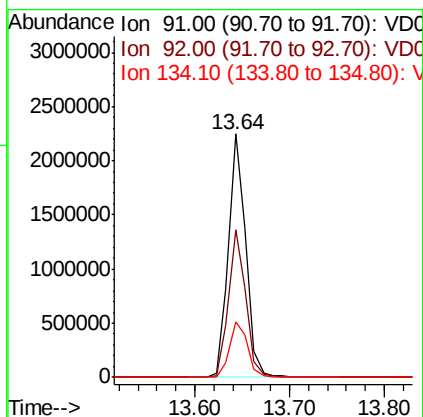
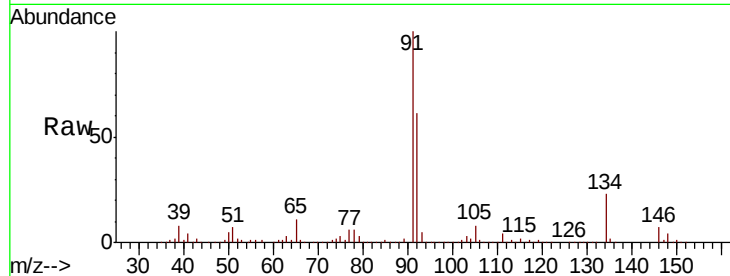




#89
n-Butylbenzene
Concen: 50.378 ug/l
RT: 13.64 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

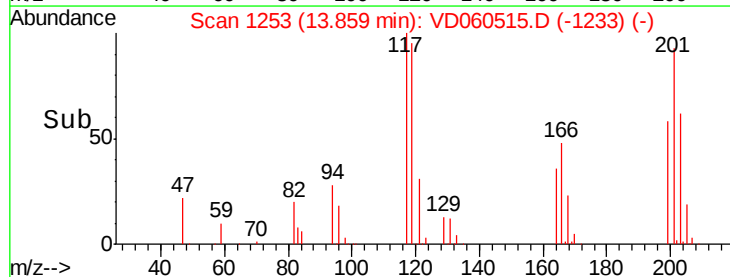
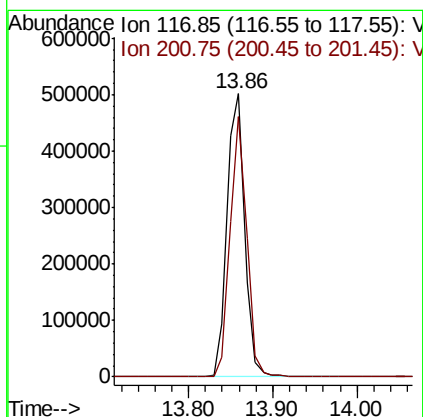
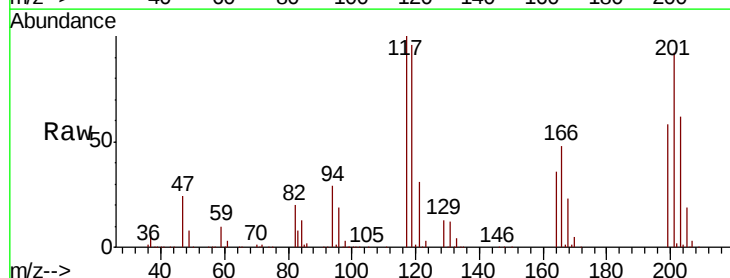
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

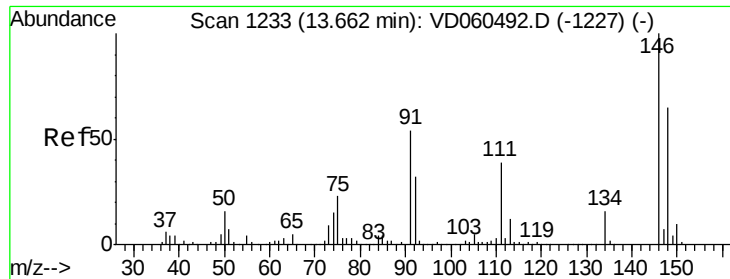
Tot Ion: 91 Resp: 2835253
Ion Ratio Lower Upper
91 100
92 60.7 30.0 90.1
134 22.9 12.5 37.5



#90
Hexachloroethane
Concen: 51.300 ug/l
RT: 13.86 min Scan# 1253
Delta R.T. 0.00 min
Lab File: VD060515.D
Acq: 10 Dec 2018 10:17

Tgt Ion: 117 Resp: 731901
Ion Ratio Lower Upper
117 100
201 92.2 41.3 123.9

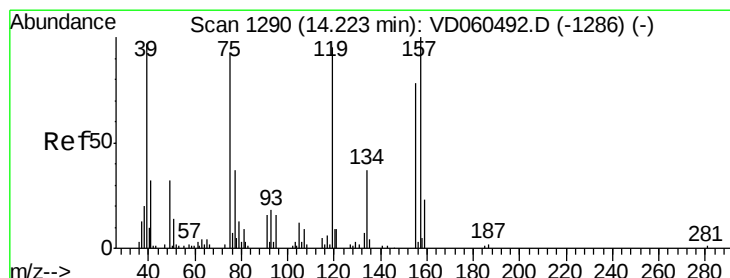
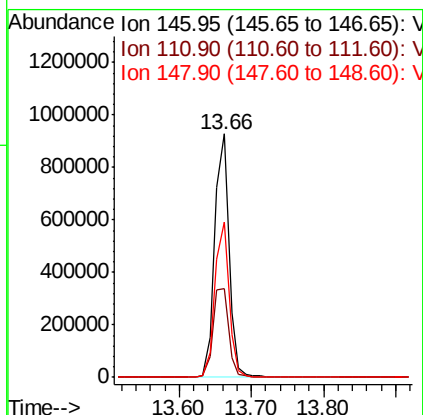
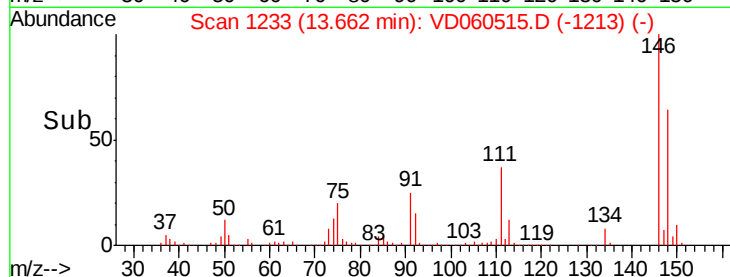
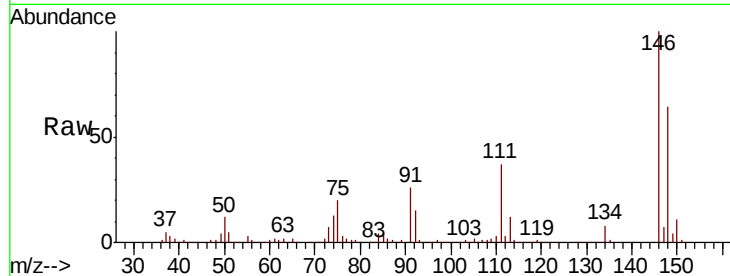




#91
 1,2-Dichlorobenzene
 Concen: 47.890 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

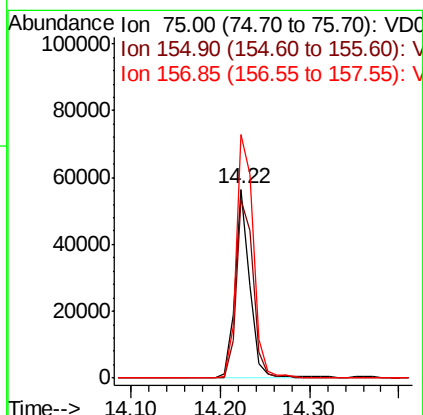
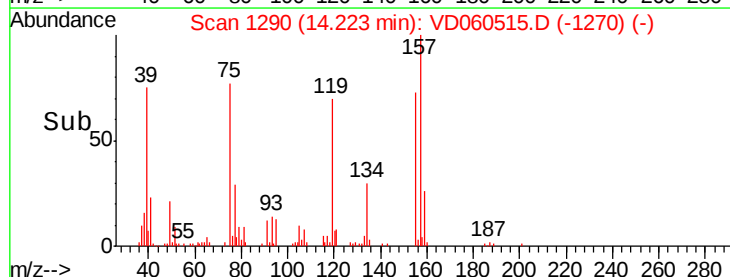
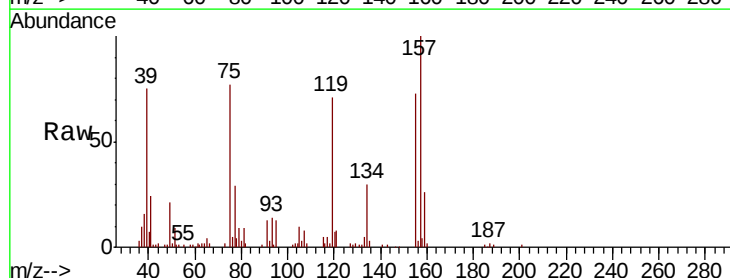
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

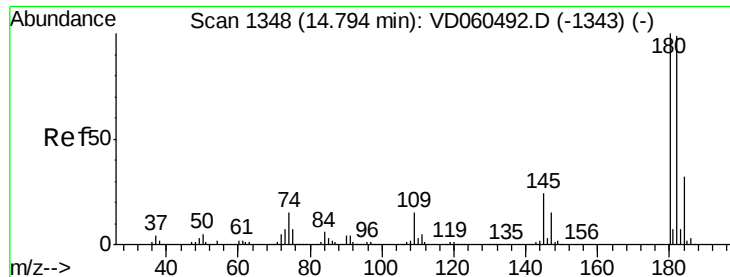
Tot Ion:146 Resp: 1252098
 Ion Ratio Lower Upper
 146 100
 111 36.6 19.3 57.8
 148 64.0 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.336 ug/l
 RT: 14.22 min Scan# 1290
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion: 75 Resp: 66941
 Ion Ratio Lower Upper
 75 100
 155 94.6 41.6 124.9
 157 129.1 53.6 160.8

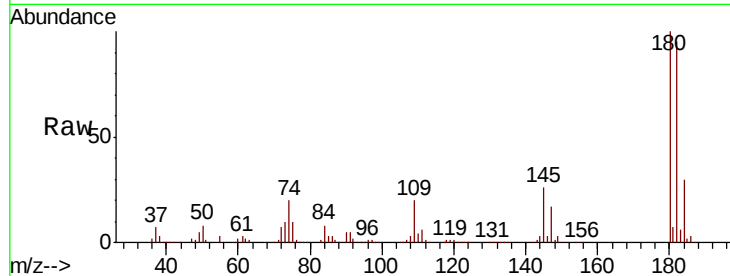




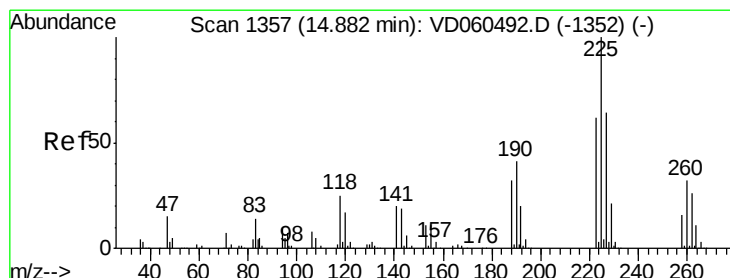
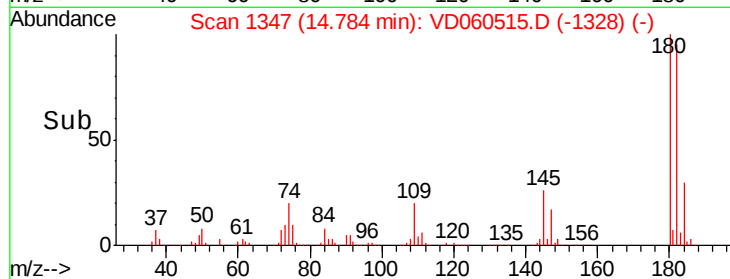
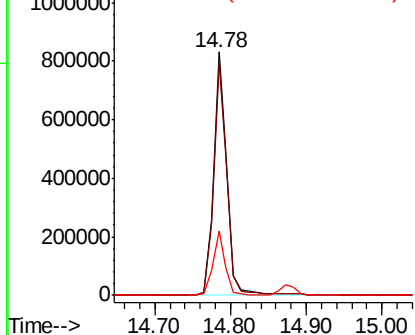
#93
 1,2,4-Trichlorobenzene
 Concen: 50.599 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.01 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 1034162
 Ion Ratio Lower Upper
 180 100
 182 95.5 49.4 148.0
 145 26.3 11.9 35.9

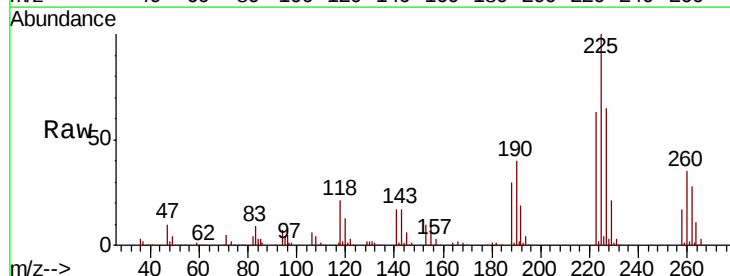


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

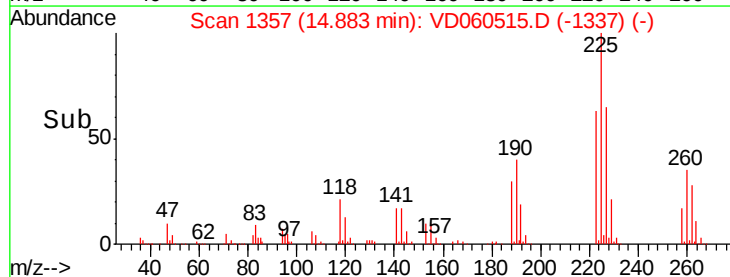
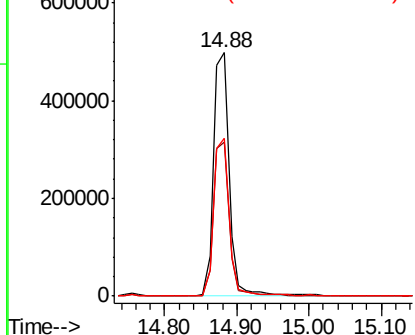


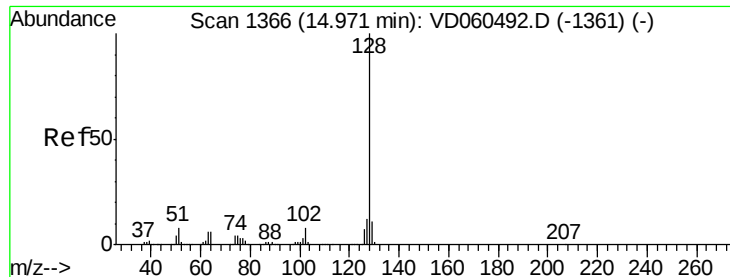
#94
 Hexachlorobutadiene
 Concen: 49.394 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VD060515.D
 Acq: 10 Dec 2018 10:17

Tgt Ion:225 Resp: 744841
 Ion Ratio Lower Upper
 225 100
 223 63.3 31.2 93.6
 227 65.0 32.0 96.0



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





#95

Naphthalene

Concen: 51.721 ug/l

RT: 14.96 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

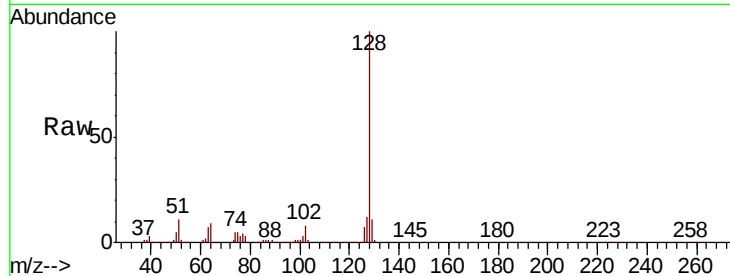
Tot Ion:128 Resp: 1257574

Ion Ratio Lower Upper

128 100

127 12.3 9.8 14.8

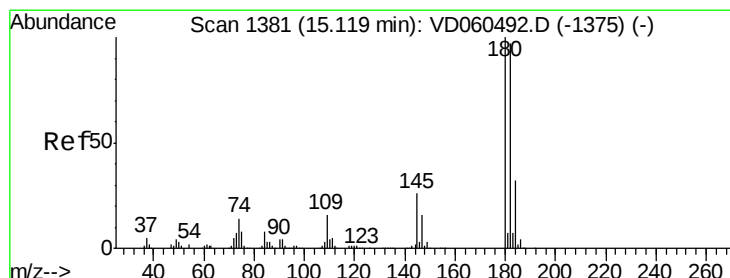
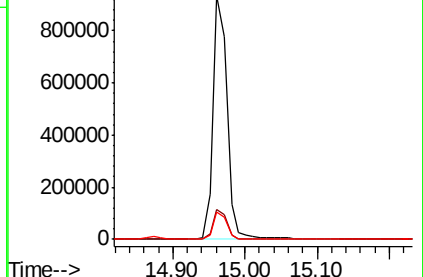
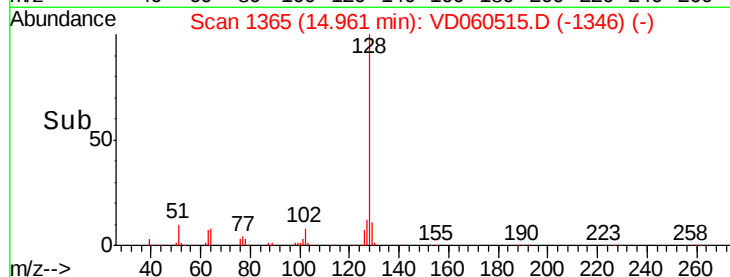
129 11.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 50.564 ug/l

RT: 15.11 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD060515.D

Acq: 10 Dec 2018 10:17

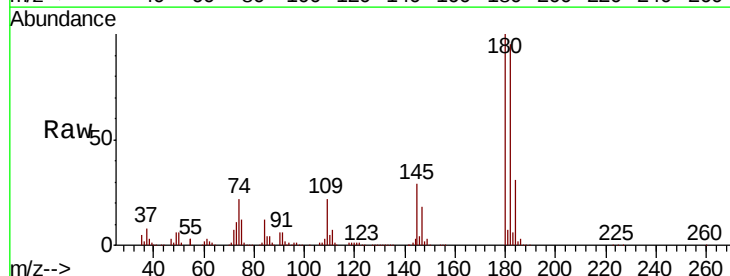
Tgt Ion:180 Resp: 823449

Ion Ratio Lower Upper

180 100

182 94.9 48.5 145.5

145 29.1 12.9 38.7



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

