

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061306.D
 Acq On : 25 Mar 2019 17:11
 Operator : VA/AP
 Sample : K2043-09MSD
 Misc : 5.67g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

Quant Time: Mar 26 04:28:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	702415	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1174926	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	898960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	357628	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	303988	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
35) Dibromofluoromethane	6.93	113	478527	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
50) Toluene-d8	10.42	98	1072200	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
62) 4-Bromofluorobenzene	13.56	95	350649	41.23	ug/l	0.00
Spiked Amount			Recovery	=	82.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	397768	55.387	ug/l	99
3) Chloromethane	1.77	50	318683	56.885	ug/l	99
4) Vinyl Chloride	1.86	62	801053	152.926	ug/l	98
5) Bromomethane	2.17	94	64914	61.057	ug/l	94
6) Chloroethane	2.28	64	101169	61.392	ug/l	94
7) Trichlorofluoromethane	2.55	101	428989	55.405	ug/l	99
8) Diethyl Ether	2.89	74	143076	62.147	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.17	101	449146	56.992	ug/l	98
10) Methyl Iodide	3.32	142	685863	62.294	ug/l	100
11) Tert butyl alcohol	4.06	59	131112	406.418	ug/l	97
12) 1,1-Dichloroethene	3.14	96	401854	59.259	ug/l	99
13) Acrolein	3.05	56	58696	166.221	ug/l	96
14) Allyl chloride	3.64	41	562549	58.478	ug/l	97
15) Acrylonitrile	4.21	53	351239	309.587	ug/l	99
16) Acetone	3.23	43	537437	370.755	ug/l	93
17) Carbon Disulfide	3.40	76	1361821	60.467	ug/l	98
18) Methyl Acetate	3.66	43	170765	62.324	ug/l	95
19) Methyl tert-butyl Ether	4.25	73	692552	57.990	ug/l	99
20) Methylene Chloride	3.83	84	460238	55.941	ug/l	97
21) trans-1,2-Dichloroethene	4.24	96	455633	60.060	ug/l	96
22) Diisopropyl ether	5.13	45	1227387	60.567	ug/l	97
23) Vinyl Acetate	5.07	43	3125452	288.768	ug/l	100
24) 1,1-Dichloroethane	5.00	63	733847	62.142	ug/l	99
25) 2-Butanone	6.08	43	498756	297.475	ug/l	99
26) 2,2-Dichloropropane	6.04	77	516696	51.528	ug/l	86
27) cis-1,2-Dichloroethene	6.06	96	2054916	251.706	ug/l	94
28) Bromochloromethane	6.45	49	229748	46.480	ug/l	96
29) Tetrahydrofuran	6.46	42	268439	321.659	ug/l	99
30) Chloroform	6.68	83	746547	59.324	ug/l	98
31) Cyclohexane	6.97	56	514649	53.694	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	601658	53.983	ug/l	98
36) 1,1-Dichloropropene	7.16	75	505539	52.590	ug/l	98
37) Ethyl Acetate	6.20	43	247262	61.583	ug/l #	81
38) Carbon Tetrachloride	7.12	117	628623	57.217	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	468185	47.027	ug/l	99
40) Benzene	7.47	78	1335732	55.949	ug/l	99
41) Methacrylonitrile	6.45	41	292955	62.789	ug/l #	92
42) 1,2-Dichloroethane	7.58	62	402372	54.079	ug/l	100
43) Isopropyl Acetate	9.25	43	346288	59.815	ug/l #	98
44) Trichloroethene	8.55	130	522494	60.515	ug/l	99
45) 1,2-Dichloropropane	8.95	63	372555	63.227	ug/l	99
46) Dibromomethane	9.07	93	243714	60.341	ug/l	98
47) Bromodichloromethane	9.38	83	552435	58.356	ug/l	99
48) Methyl methacrylate	9.13	41	189469	61.318	ug/l	96
49) 1,4-Dioxane	9.09	88	44242	1304.963	ug/l	96
51) 4-Methyl-2-Pentanone	10.31	43	1004920	291.592	ug/l	98
52) Toluene	10.52	92	780079	53.401	ug/l	98
53) t-1,3-Dichloropropene	10.92	75	456176	55.448	ug/l	100
54) cis-1,3-Dichloropropene	10.04	75	594100	59.137	ug/l	99
55) 1,1,2-Trichloroethane	11.20	97	281028	57.947	ug/l	97
56) Ethyl methacrylate	11.05	69	322501	62.318	ug/l	99
57) 1,3-Dichloropropane	11.41	76	417181	56.958	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.87	63	757609	281.399	ug/l	98
59) 2-Hexanone	11.54	43	811679	324.278	ug/l	99
60) Dibromochloromethane	11.69	129	441664	58.145	ug/l	100
61) 1,2-Dibromoethane	11.81	107	335764	59.254	ug/l	99
64) Tetrachloroethene	11.27	164	365466	59.016	ug/l	97
65) Chlorobenzene	12.40	112	956517	57.767	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	391420	60.972	ug/l	98
67) Ethyl Benzene	12.53	91	1421018	56.077	ug/l	99
68) m/p-Xylenes	12.67	106	1039728	105.111	ug/l	97
69) o-Xylene	13.06	106	523665	57.081	ug/l	93
70) Styrene	13.08	104	876307	56.283	ug/l	97
71) Bromoform	13.23	173	228983	58.289	ug/l	97
73) Isopropylbenzene	13.41	105	1262207	54.263	ug/l	100
74) N-amyl acetate	13.26	43	426967	70.159	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	294073	65.193	ug/l	100
76) 1,2,3-Trichloropropane	13.74	75	300414	67.546	ug/l	99
77) Bromobenzene	13.68	156	371089	57.113	ug/l	91
78) n-propylbenzene	13.78	91	1383499	52.718	ug/l	98
79) 2-Chlorotoluene	13.84	91	804067	52.623	ug/l	97
80) 1,3,5-Trimethylbenzene	14.24	105	972435	52.993	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.48	75	104401	74.381	ug/l	92
82) 4-Chlorotoluene	13.95	91	906022	54.239	ug/l	95
83) tert-Butylbenzene	14.19	119	1048606	50.049	ug/l	95
84) 1,2,4-Trimethylbenzene	14.24	105	972435	52.993	ug/l	98
85) sec-Butylbenzene	14.37	105	1067949	45.769	ug/l	96
86) p-Isopropyltoluene	14.49	119	942665	45.283	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	632949	54.958	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	603346	54.082	ug/l	98
89) n-Butylbenzene	14.80	91	666363	36.055	ug/l	96
90) Hexachloroethane	15.01	117	248109	44.453	ug/l	83
91) 1,2-Dichlorobenzene	14.81	146	484875	52.763	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	38260	67.877	ug/l	68

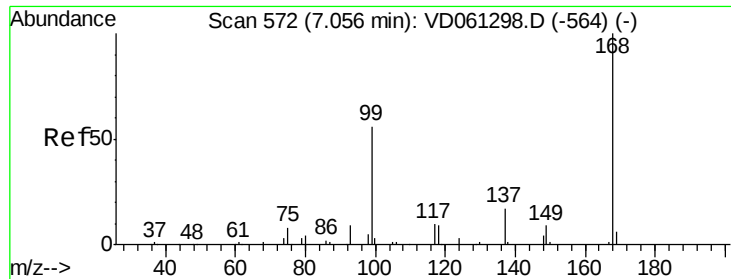
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	134210	31.622	ug/l	97
94) Hexachlorobutadiene	16.04	225	70076	20.491	ug/l	99
95) Naphthalene	16.13	128	295949	47.790	ug/l	100
96) 1,2,3-Trichlorobenzene	16.28	180	60104	30.321	ug/l	97

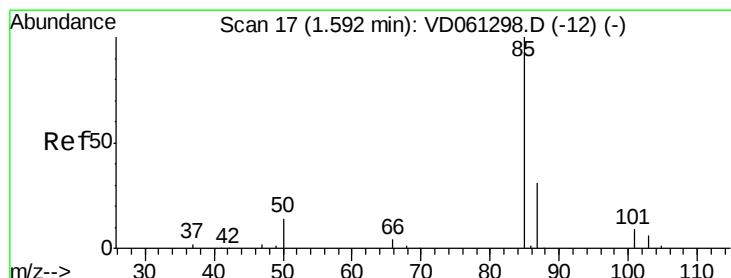
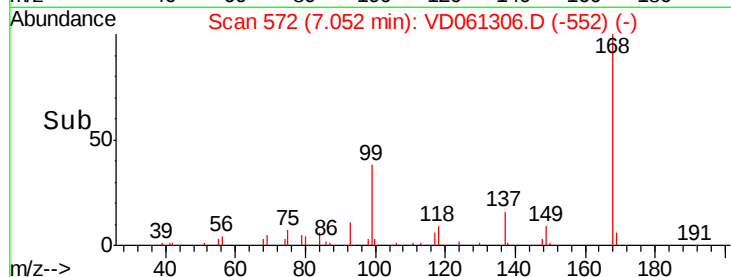
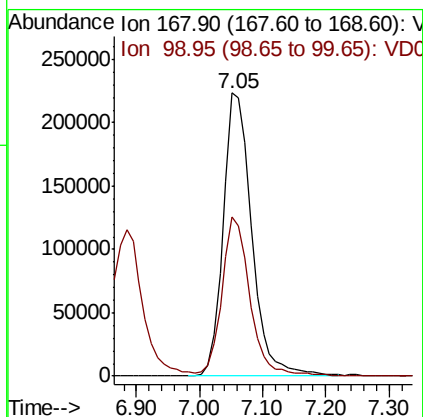
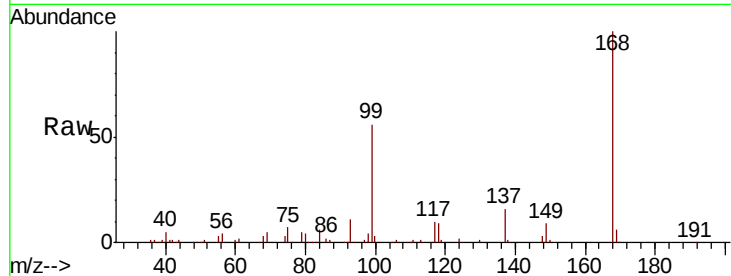
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

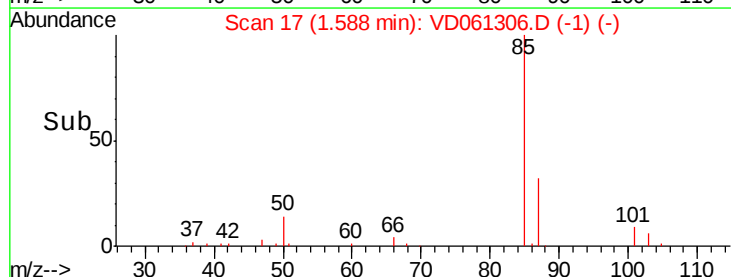
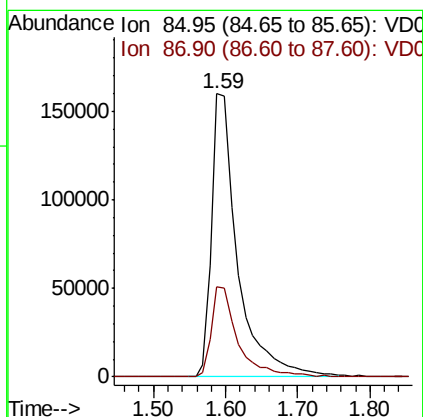
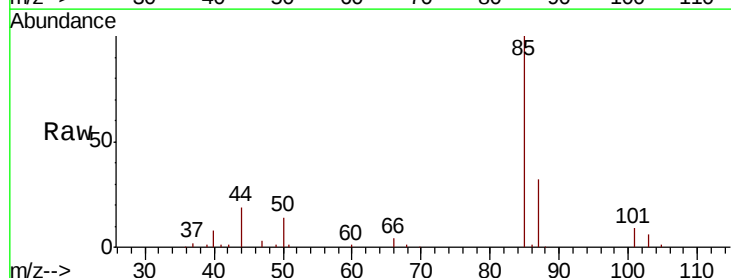
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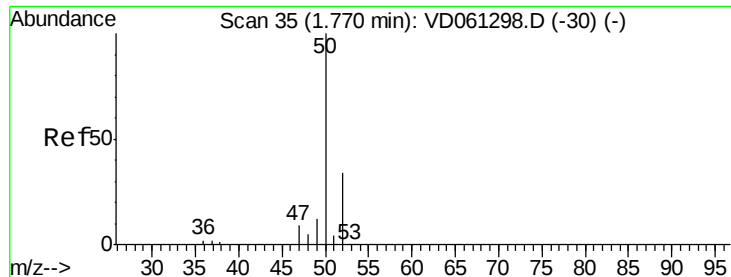
Tot Ion:168 Resp: 702415
Ion Ratio Lower Upper
168 100
99 56.1 45.8 68.8



#2
Dichlorodifluoromethane
Concen: 55.387 ug/l
RT: 1.59 min Scan# 17
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 85 Resp: 397768
Ion Ratio Lower Upper
85 100
87 31.7 15.4 46.4





#3

Chloromethane

Concen: 56.885 ug/l

RT: 1.77 min Scan# 35

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

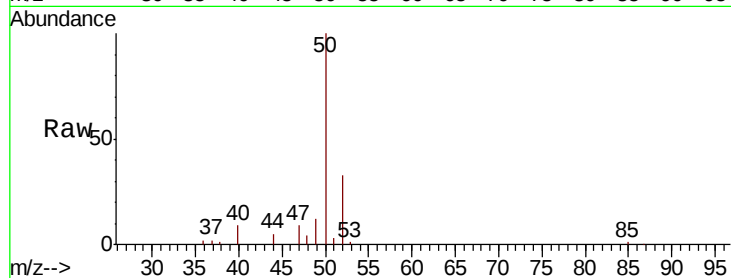
WP022SB441-190319-(23-25)MSD

Tot Ion: 50 Resp: 318683

Ion Ratio Lower Upper

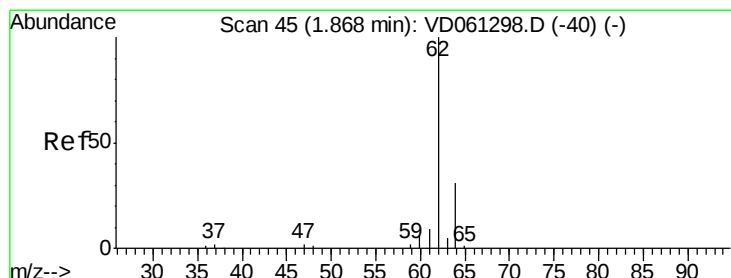
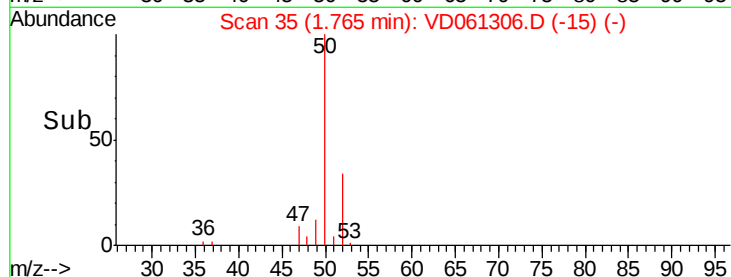
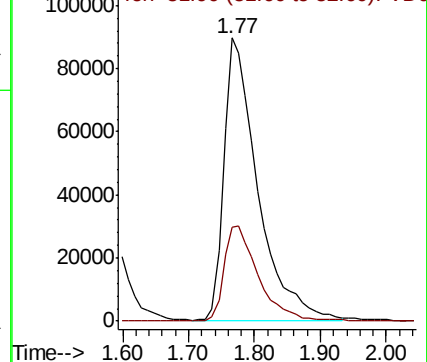
50 100

52 33.1 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 152.926 ug/l

RT: 1.86 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061306.D

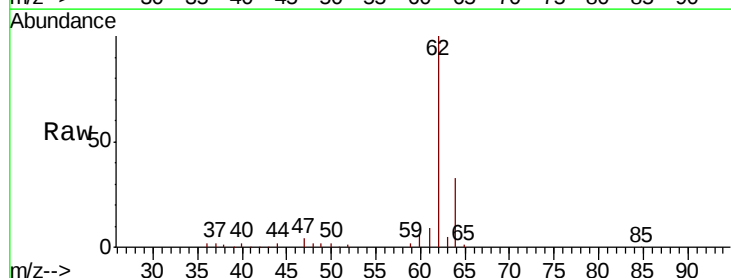
Acq: 25 Mar 2019 17:11

Tgt Ion: 62 Resp: 801053

Ion Ratio Lower Upper

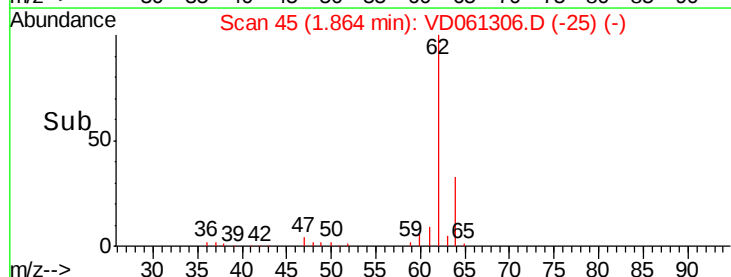
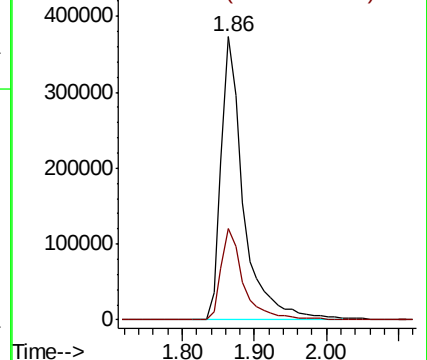
62 100

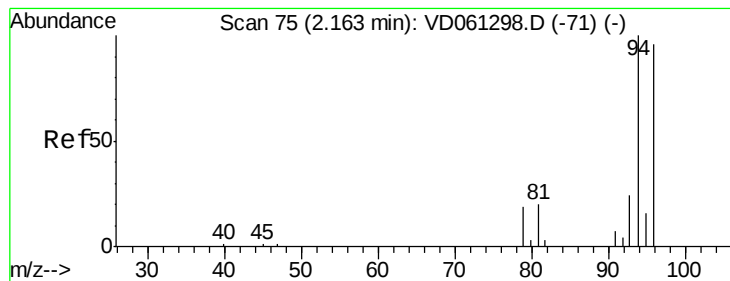
64 32.5 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 61.057 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

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ClientSampleId :

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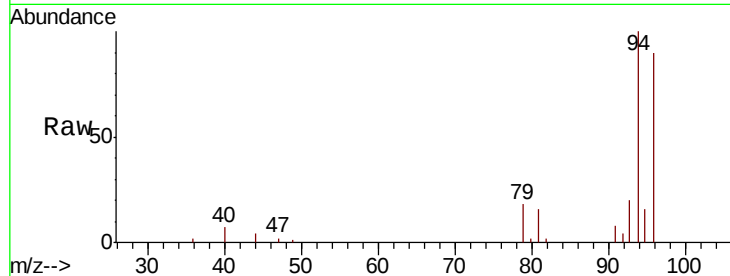
Tot Ion: 94 Resp: 64914

Ion Ratio Lower Upper

94 100

96 90.3 76.9 115.3

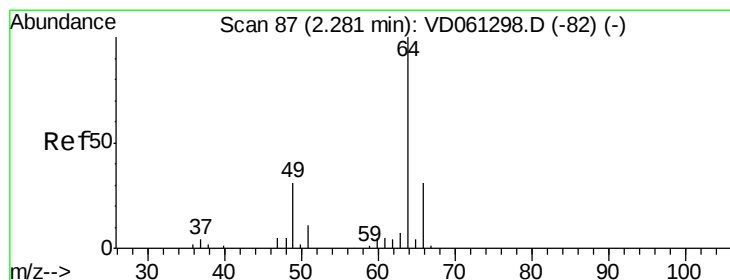
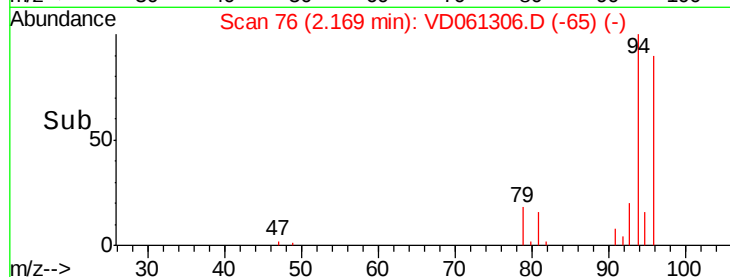
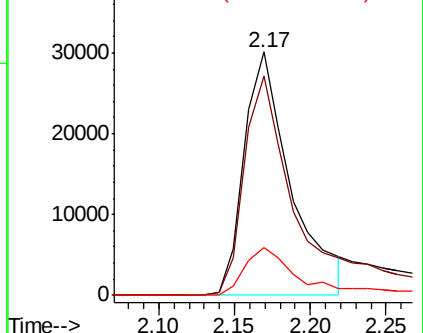
93 19.8 18.8 28.2



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 61.392 ug/l

RT: 2.28 min Scan# 87

Delta R.T. -0.00 min

Lab File: VD061306.D

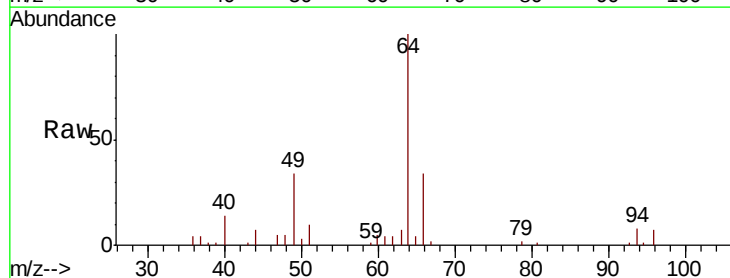
Acq: 25 Mar 2019 17:11

Tgt Ion: 64 Resp: 101169

Ion Ratio Lower Upper

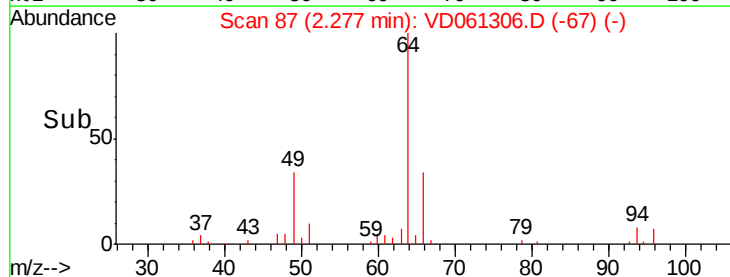
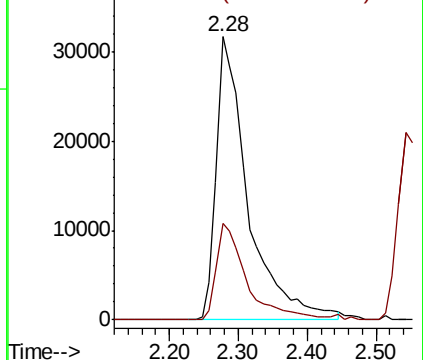
64 100

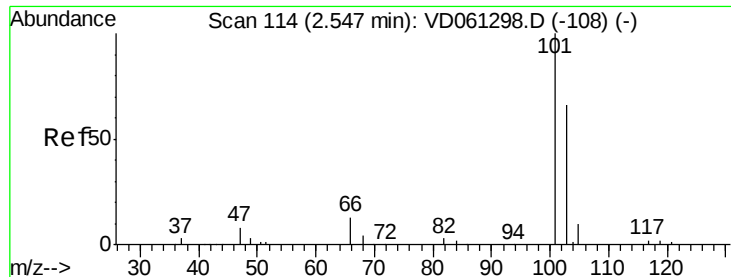
66 34.0 24.6 36.8



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



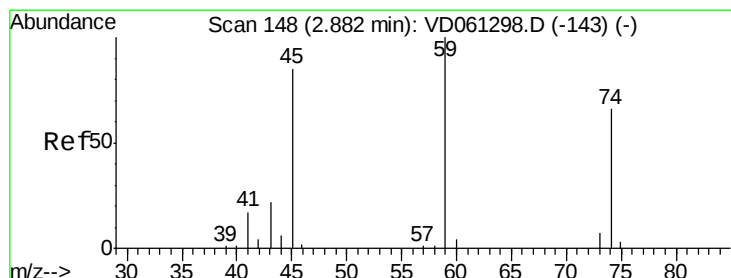
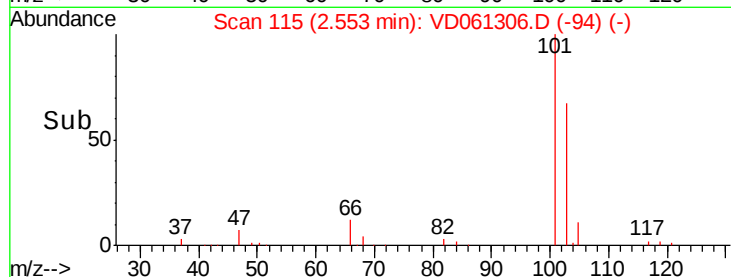
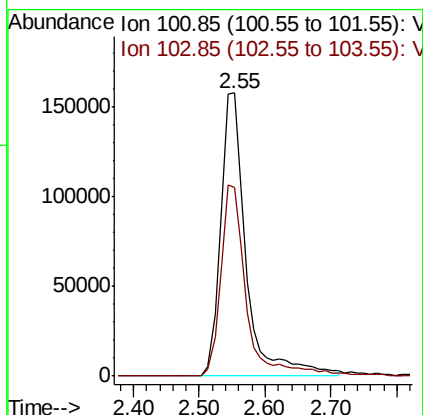
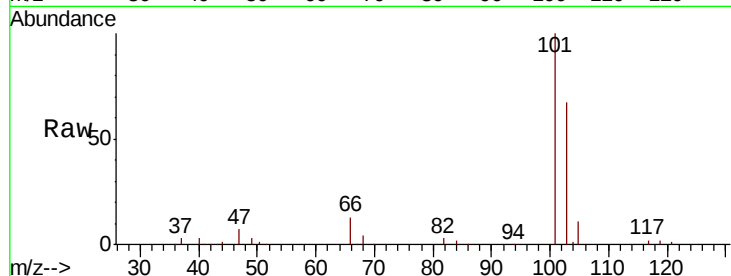


#7

Trichlorofluoromethane
 Concen: 55.405 ug/l
 RT: 2.55 min Scan# 115
 Delta R.T. 0.01 min
 Lab File: VD061306.D
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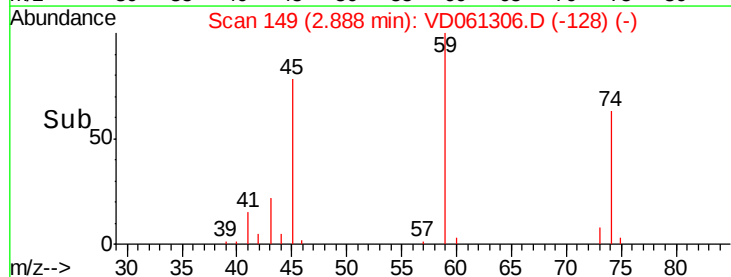
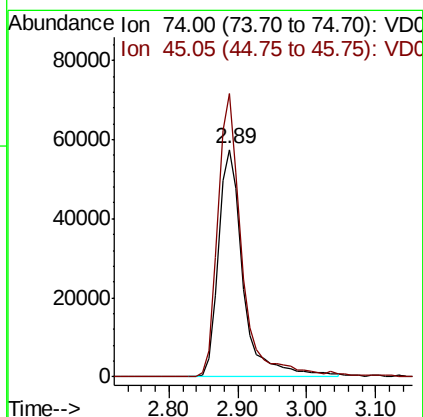
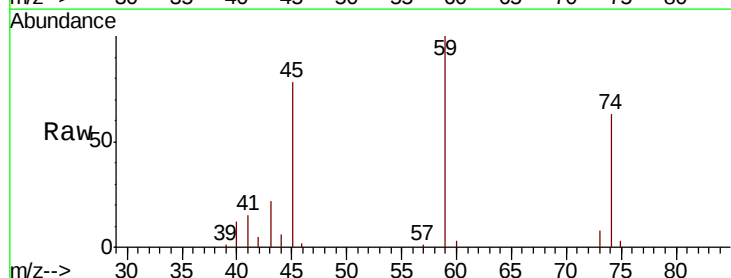
Tot Ion:101 Resp: 428989
 Ion Ratio Lower Upper
 101 100
 103 66.7 52.6 79.0

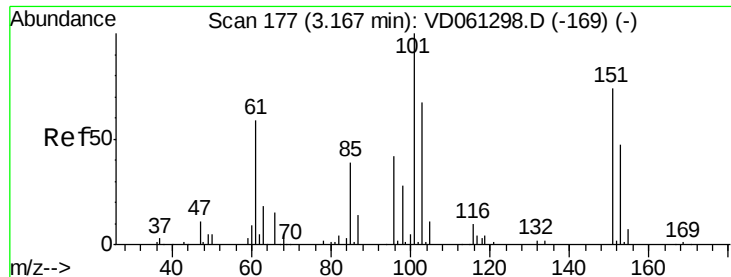


#8

Diethyl Ether
 Concen: 62.147 ug/l
 RT: 2.89 min Scan# 149
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion: 74 Resp: 143076
 Ion Ratio Lower Upper
 74 100
 45 124.4 64.3 192.9

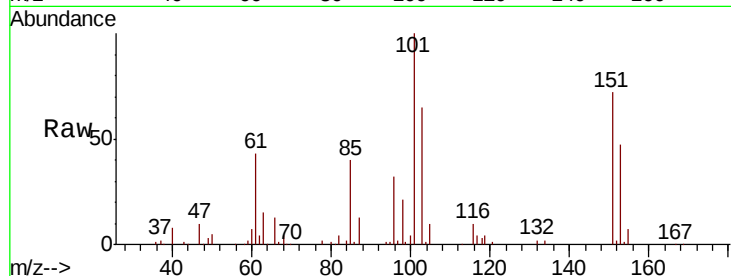




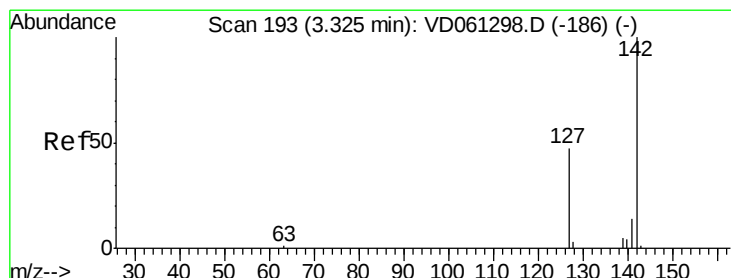
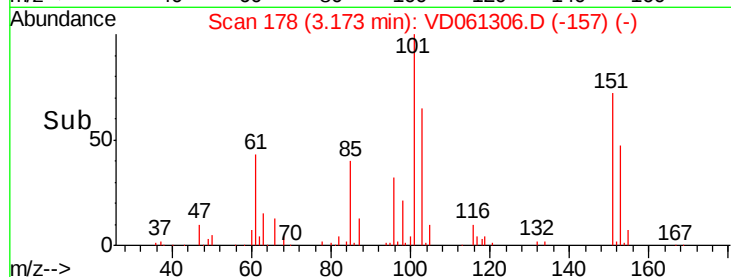
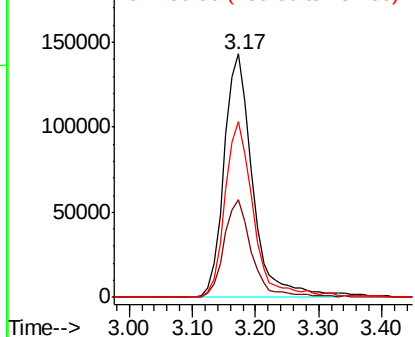
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.992 ug/l
RT: 3.17 min Scan# 178
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion:101 Resp: 449146
Ion Ratio Lower Upper
101 100
85 40.3 31.6 47.4
151 72.3 59.3 88.9

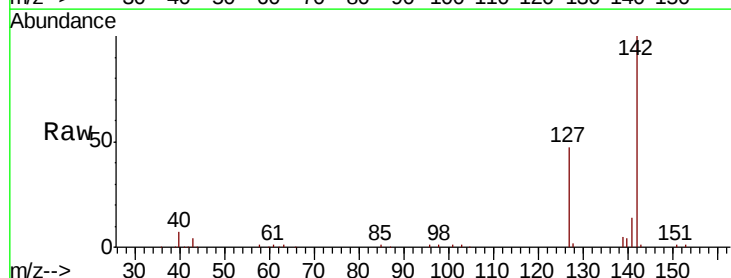


Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V

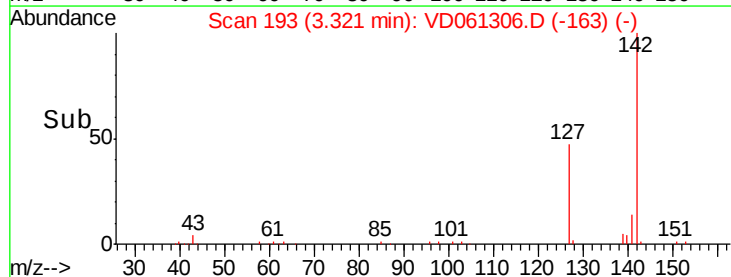
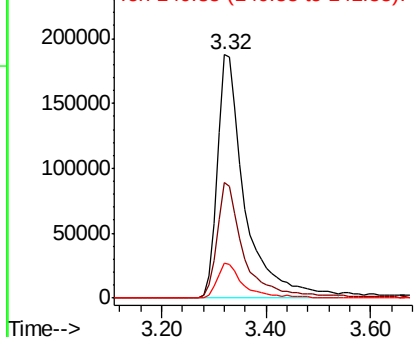


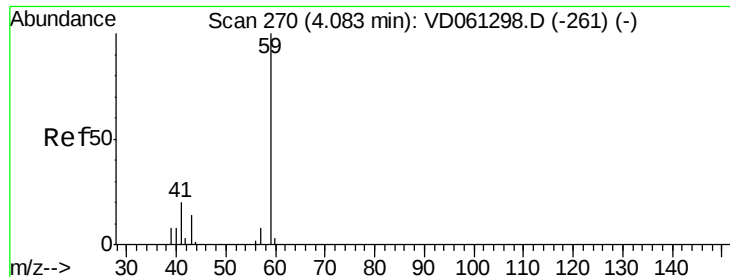
#10
Methyl Iodide
Concen: 62.294 ug/l
RT: 3.32 min Scan# 193
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:142 Resp: 685863
Ion Ratio Lower Upper
142 100
127 47.3 37.8 56.6
141 14.4 11.6 17.4



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

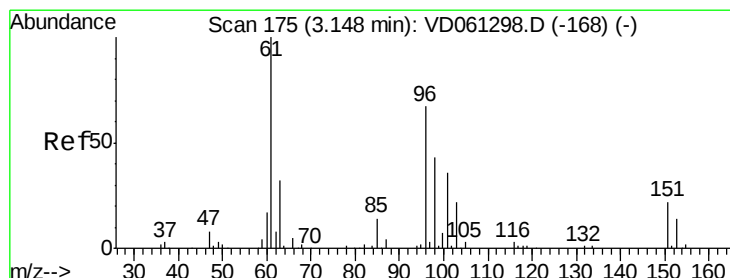
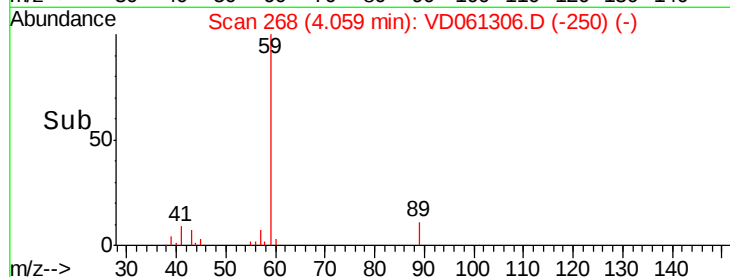
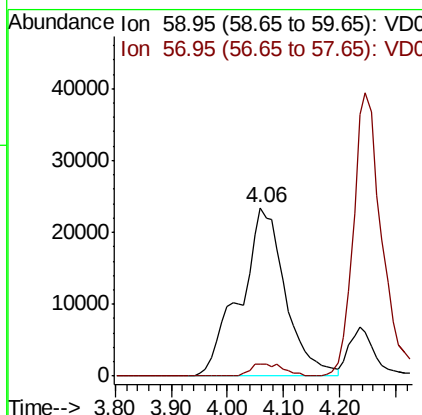
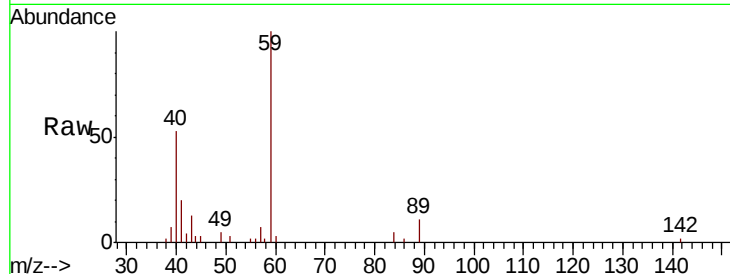




#11
Tert butyl alcohol
Concen: 406.418 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.02 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

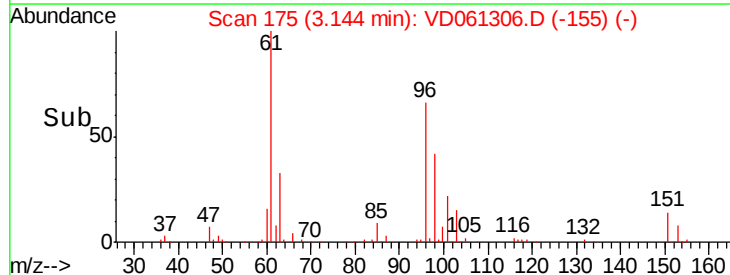
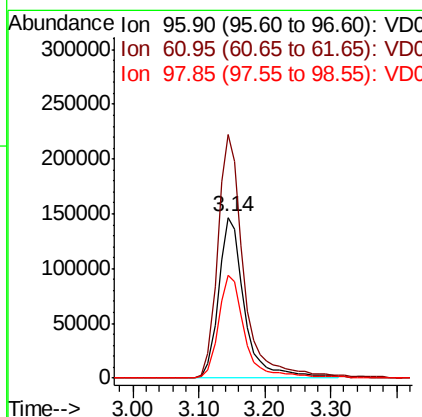
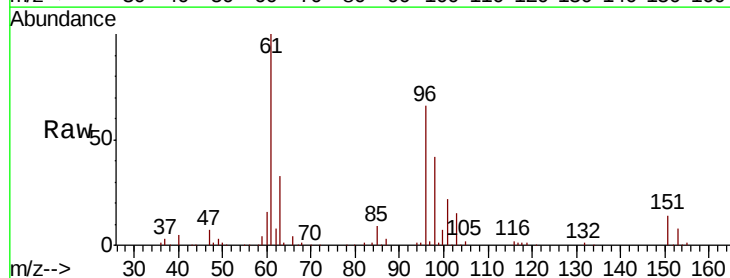
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

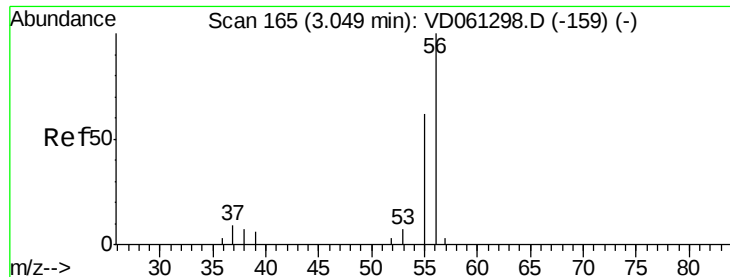
Tot Ion: 59 Resp: 131112
Ion Ratio Lower Upper
59 100
57 7.1 6.6 9.8



#12
1,1-Dichloroethene
Concen: 59.259 ug/l
RT: 3.14 min Scan# 175
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 96 Resp: 401854
Ion Ratio Lower Upper
96 100
61 151.8 120.2 180.2
98 64.2 52.2 78.4

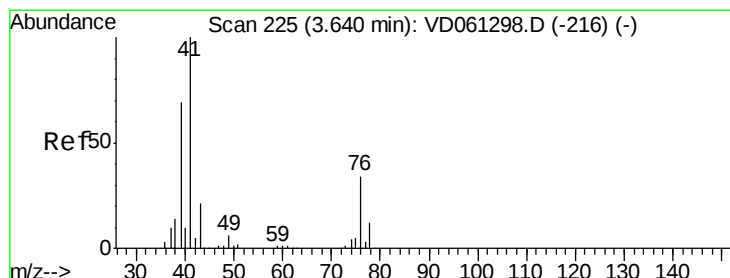
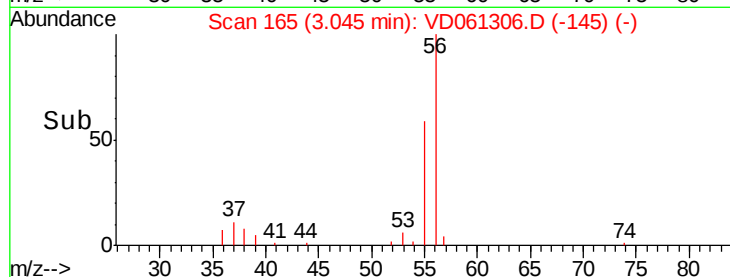
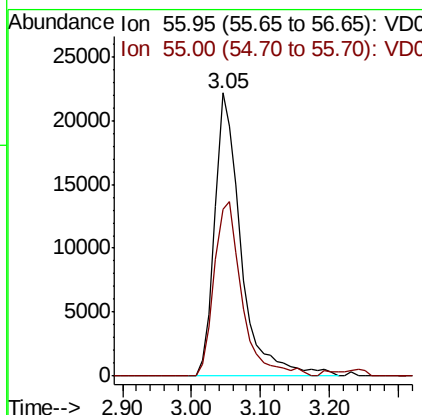
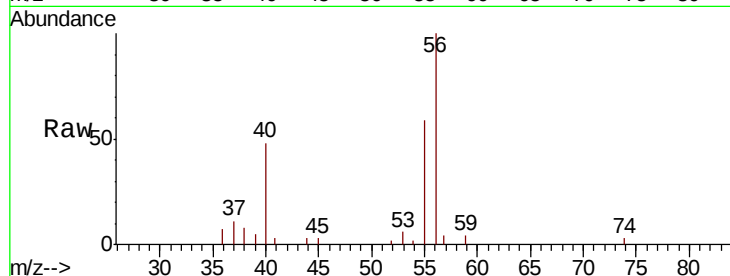




#13
Acrolein
Concen: 166.221 ug/l
RT: 3.05 min Scan# 165
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

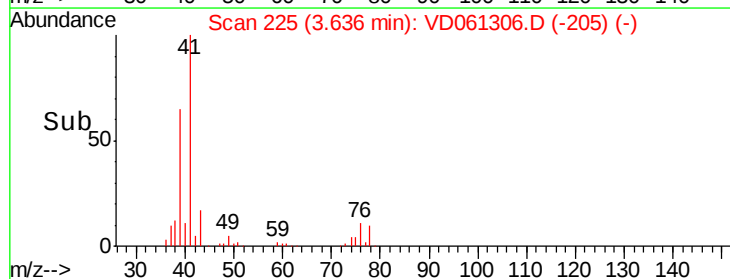
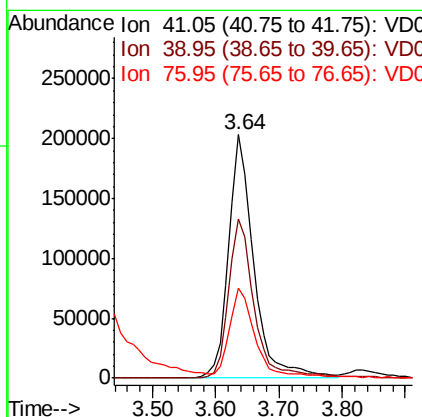
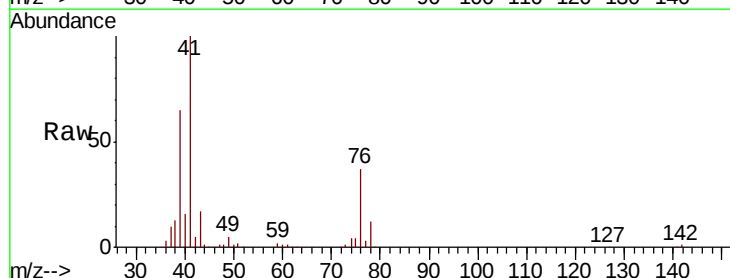
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

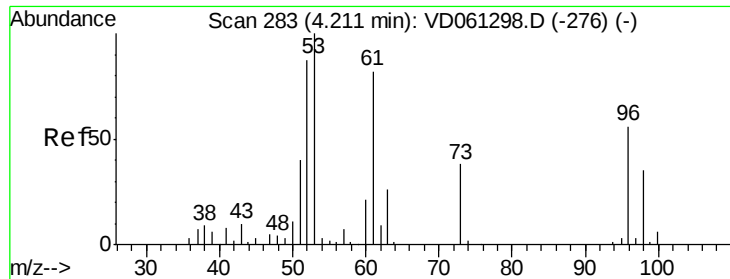
Tot Ion: 56 Resp: 58696
Ion Ratio Lower Upper
56 100
55 58.9 49.8 74.6



#14
Allyl chloride
Concen: 58.478 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 41 Resp: 562549
Ion Ratio Lower Upper
41 100
39 65.4 55.1 82.7
76 37.0 30.2 45.2





#15

Acrylonitrile

Concen: 309.587 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

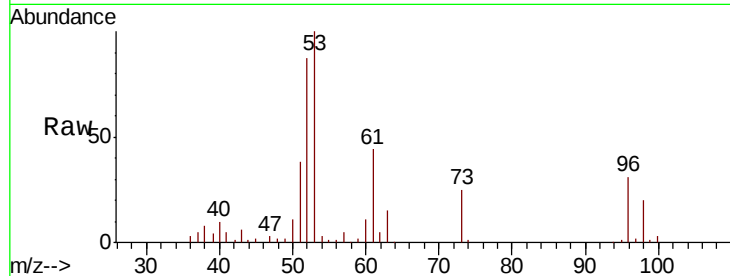
Tot Ion: 53 Resp: 351239

Ion Ratio Lower Upper

53 100

52 87.2 69.4 104.2

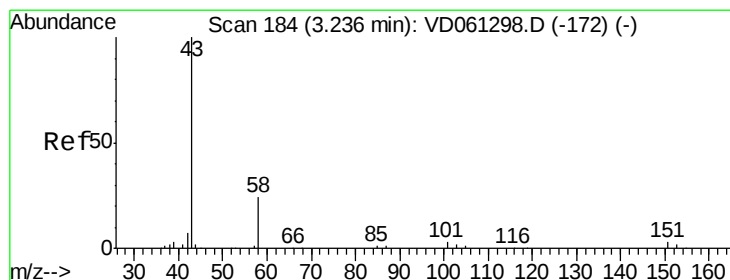
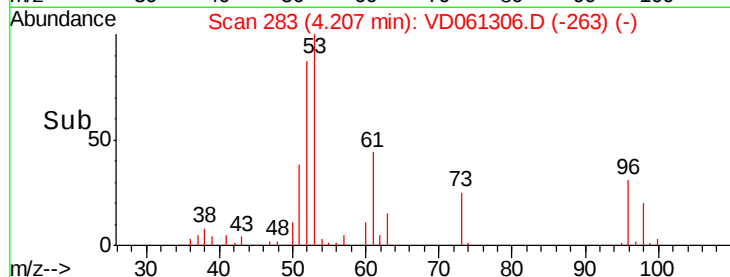
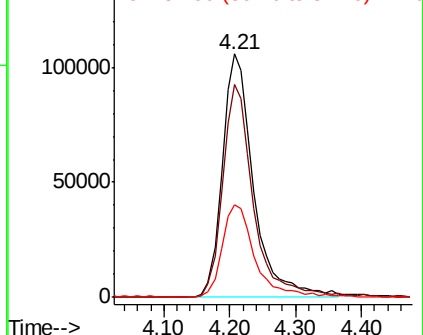
51 38.2 31.7 47.5



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 370.755 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD061306.D

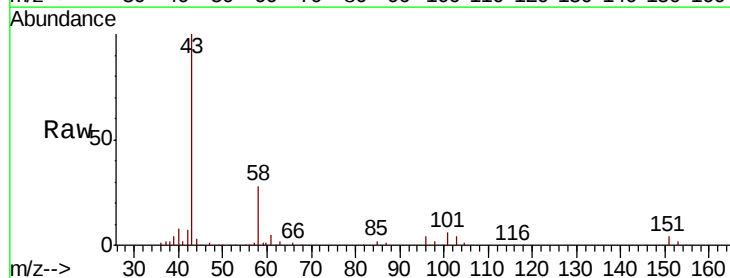
Acq: 25 Mar 2019 17:11

Tgt Ion: 43 Resp: 537437

Ion Ratio Lower Upper

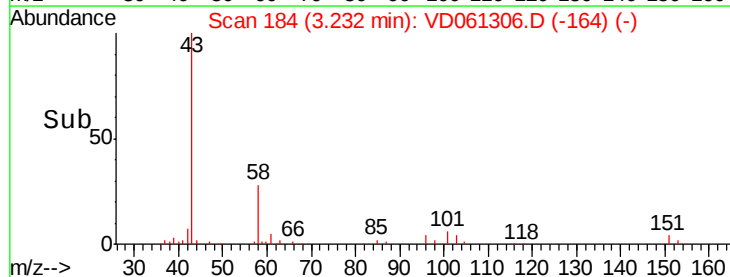
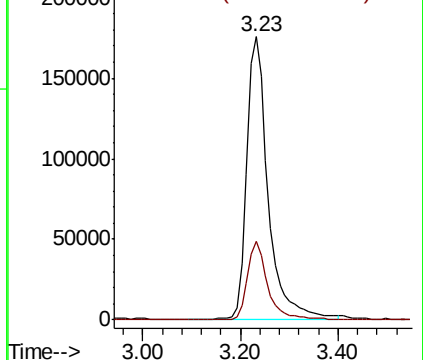
43 100

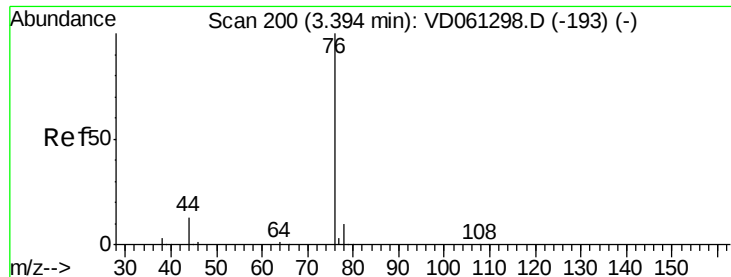
58 27.8 19.4 29.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 60.467 ug/l

RT: 3.40 min Scan# 201

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

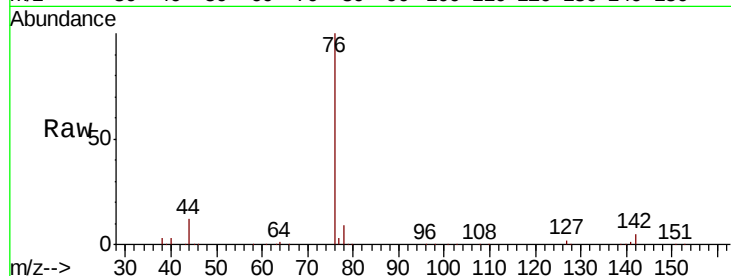
WP022SB441-190319-(23-25)MSD

Tot Ion: 76 Resp: 1361821

Ion Ratio Lower Upper

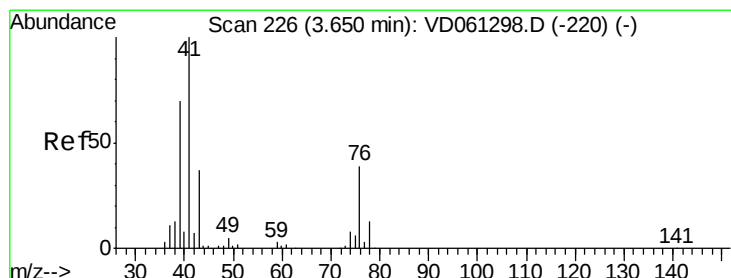
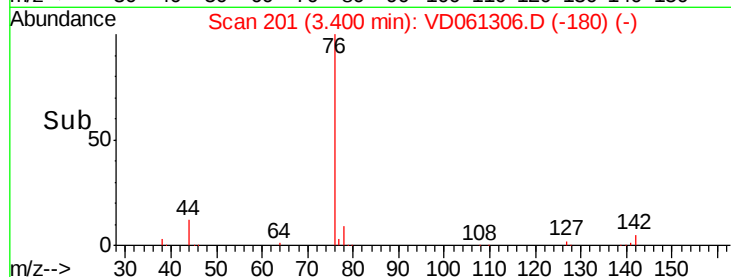
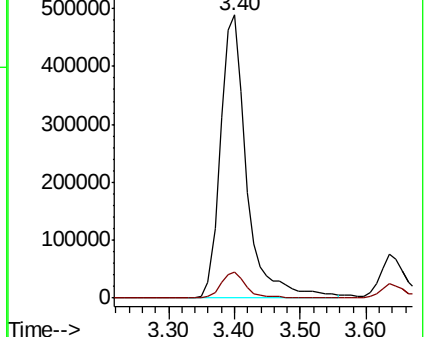
76 100

78 9.1 7.8 11.6



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 62.324 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD061306.D

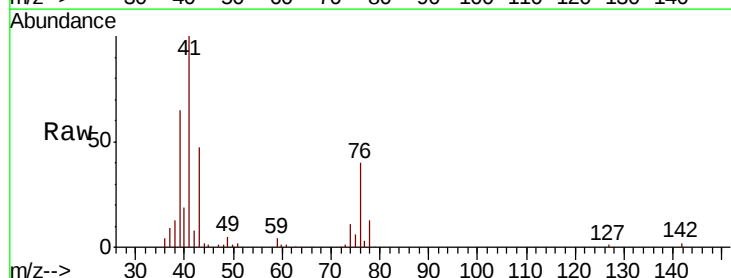
Acq: 25 Mar 2019 17:11

Tgt Ion: 43 Resp: 170765

Ion Ratio Lower Upper

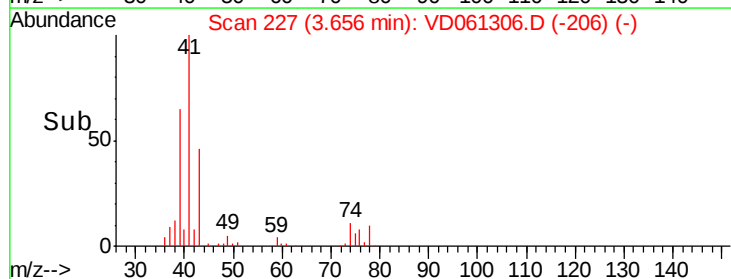
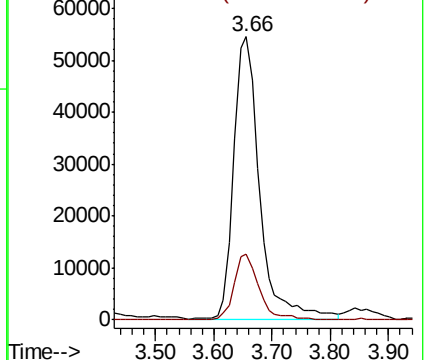
43 100

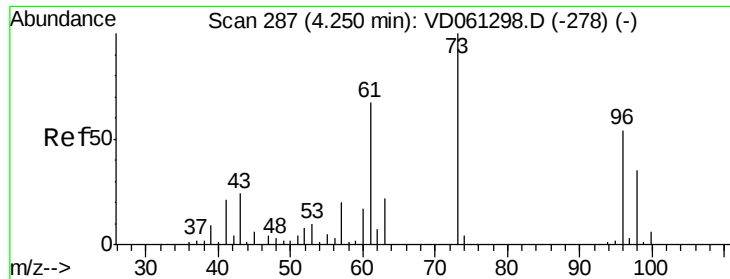
74 23.2 16.6 25.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

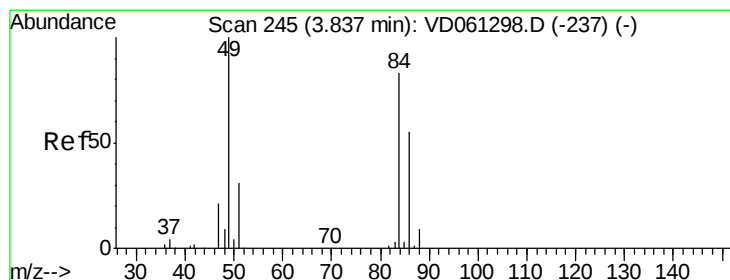
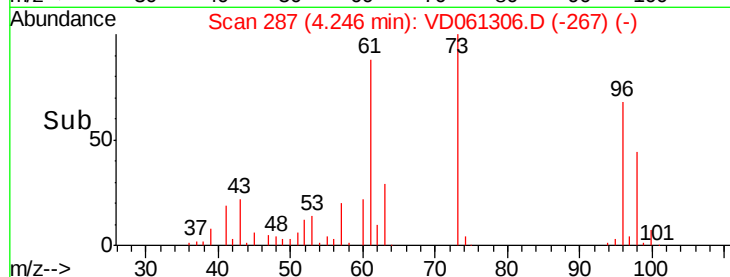
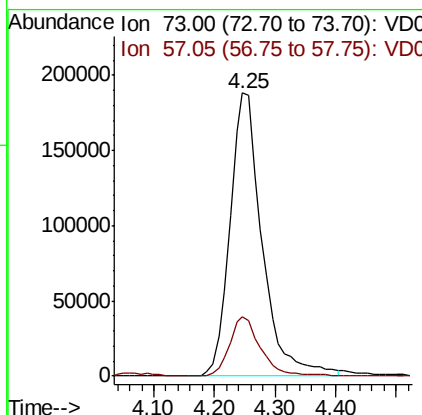
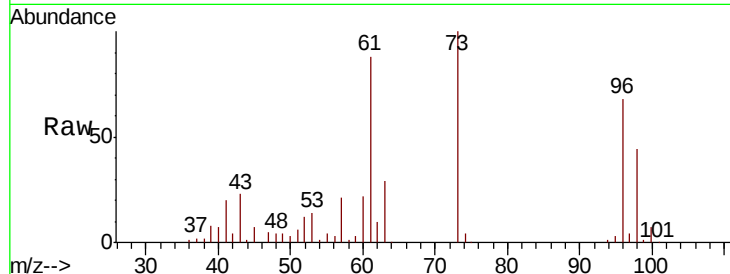




#19
Methvl tert-butvl Ether
Concen: 57.990 ug/l
RT: 4.25 min Scan# 287
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

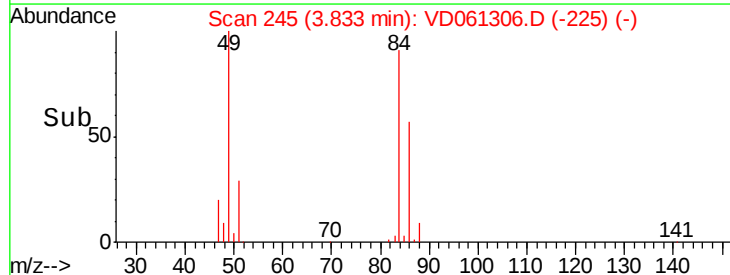
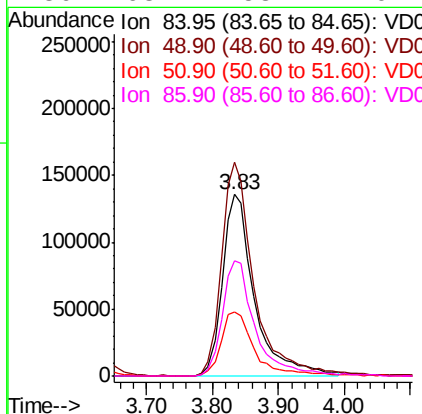
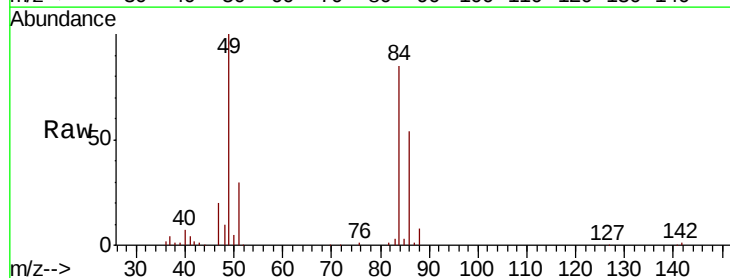
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

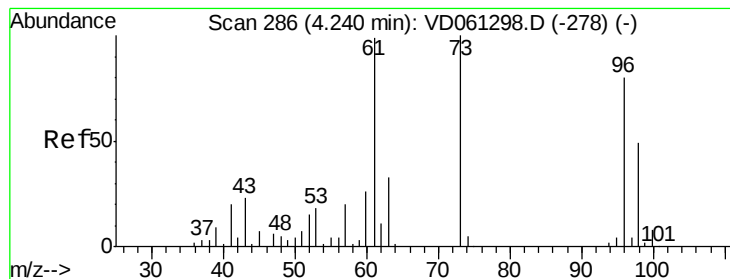
Tot Ion: 73 Resp: 692552
Ion Ratio Lower Upper
73 100
57 20.9 16.3 24.5



#20
Methylene Chloride
Concen: 55.941 ug/l
RT: 3.83 min Scan# 245
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 84 Resp: 460238
Ion Ratio Lower Upper
84 100
49 117.8 96.8 145.2
51 35.0 29.9 44.9
86 63.4 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 60.060 ug/l

RT: 4.24 min Scan# 286

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

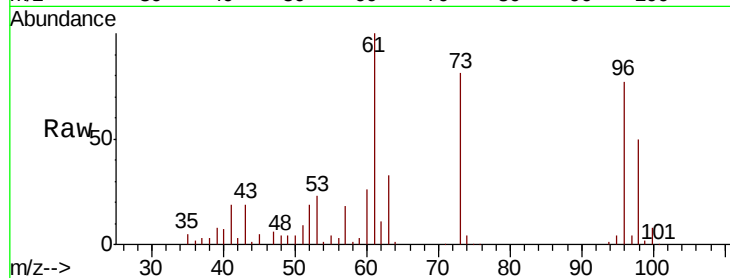
Tot Ion: 96 Resp: 455633

Ion Ratio Lower Upper

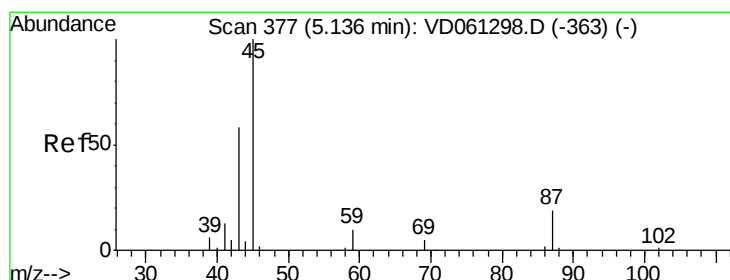
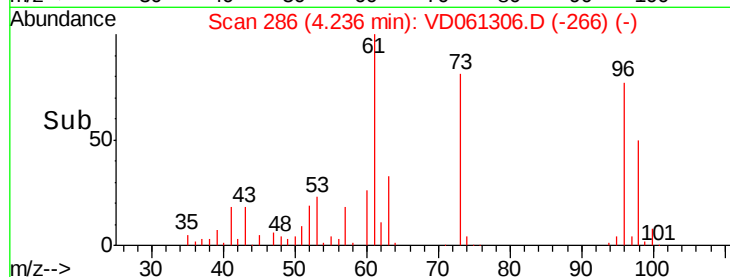
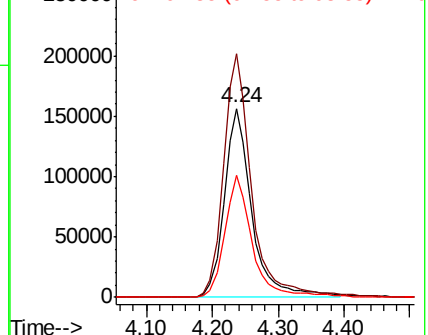
96 100

61 129.0 99.2 148.8

98 64.4 49.2 73.8



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: 60.567 ug/l

RT: 5.13 min Scan# 377

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Tgt Ion: 45 Resp: 1227387

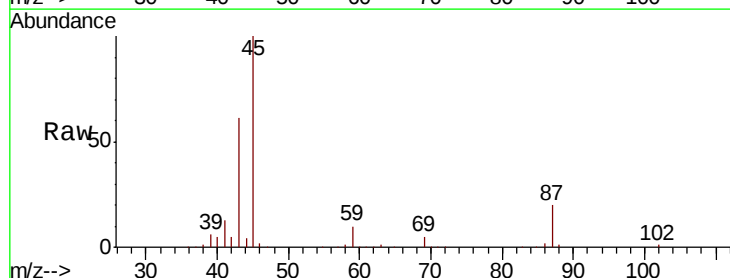
Ion Ratio Lower Upper

45 100

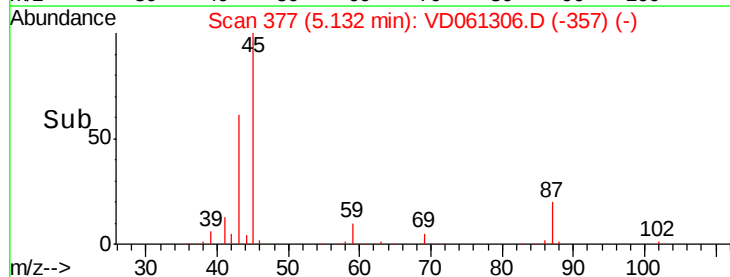
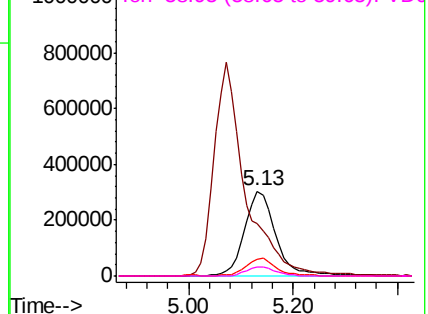
43 61.2 46.7 70.1

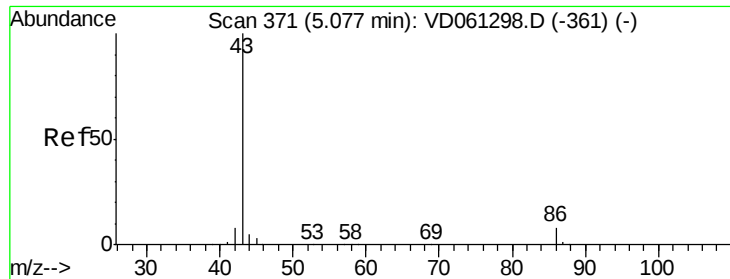
87 20.1 15.5 23.3

59 10.0 8.4 12.6



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

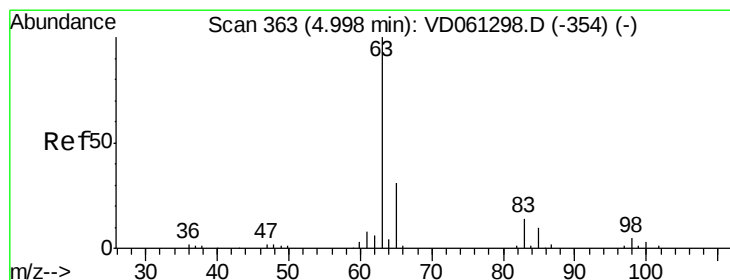
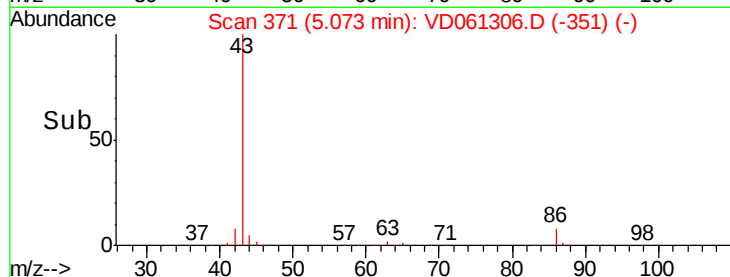
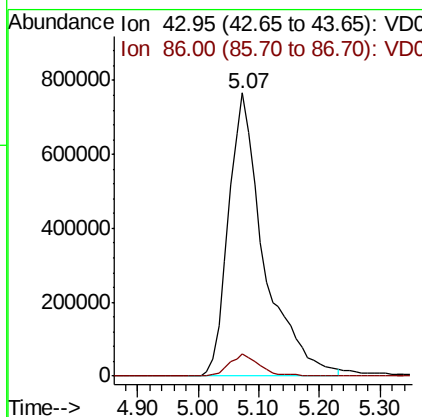
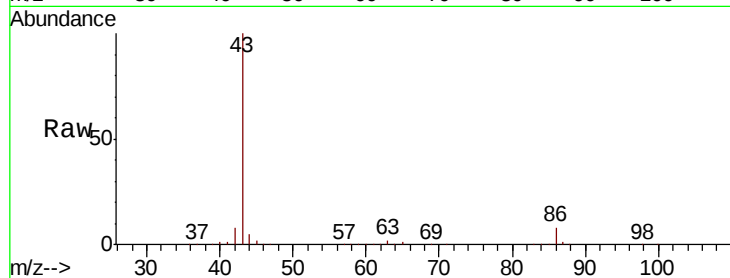




#23
 Vinyl Acetate
 Concen: 288.768 ug/l
 RT: 5.07 min Scan# 371
 Delta R.T. -0.00 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

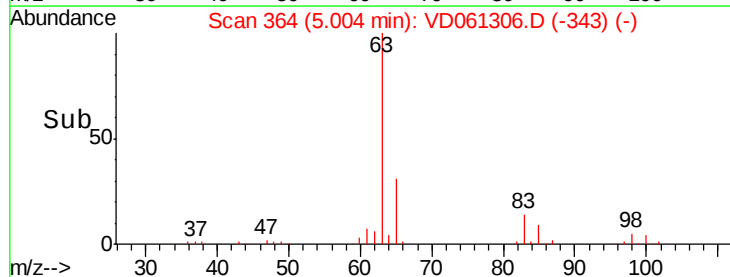
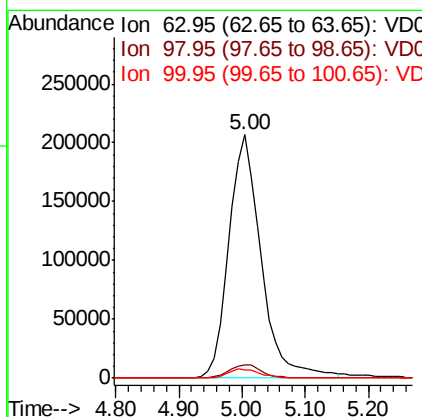
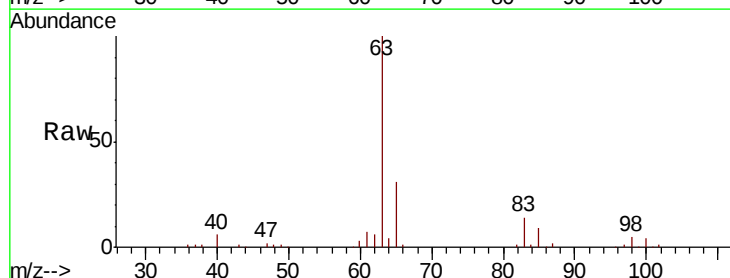
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

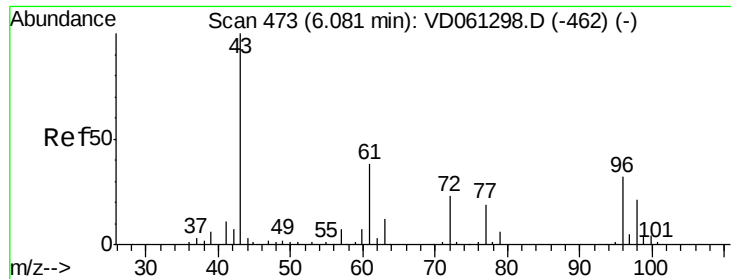
Tot Ion: 43 Resp: 3125452
 Ion Ratio Lower Upper
 43 100
 86 7.8 6.3 9.5



#24
 1,1-Dichloroethane
 Concen: 62.142 ug/l
 RT: 5.00 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion: 63 Resp: 733847
 Ion Ratio Lower Upper
 63 100
 98 5.4 2.8 8.3
 100 3.5 1.6 4.8





#25

2-Butanone

Concen: 297.475 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

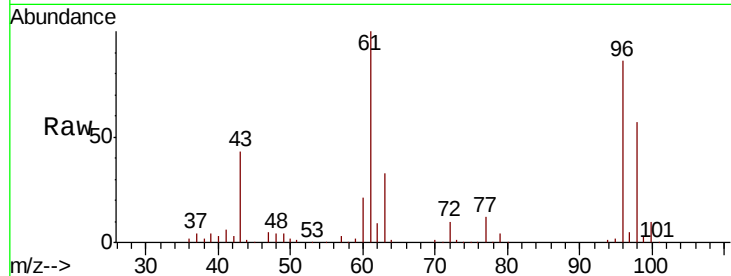
WP022SB441-190319-(23-25)MSD

Tot Ion: 43 Resp: 498756

Ion Ratio Lower Upper

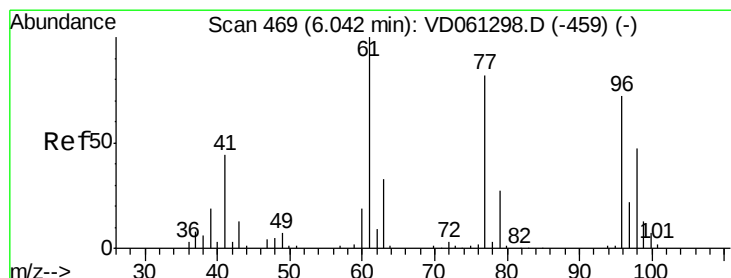
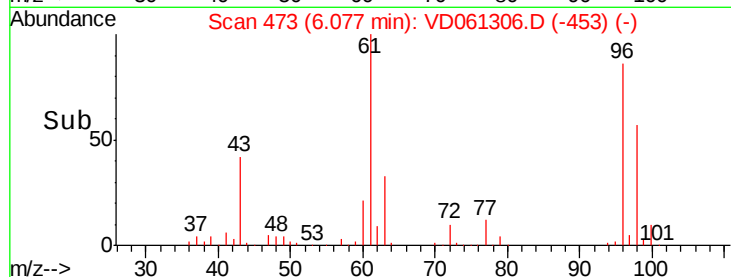
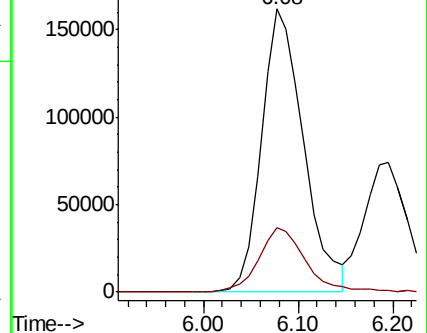
43 100

72 22.7 18.5 27.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 51.528 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD061306.D

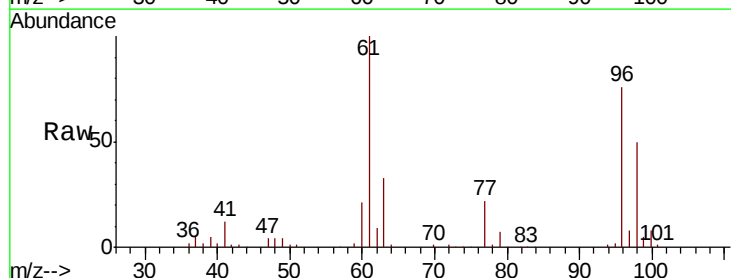
Acq: 25 Mar 2019 17:11

Tgt Ion: 77 Resp: 516696

Ion Ratio Lower Upper

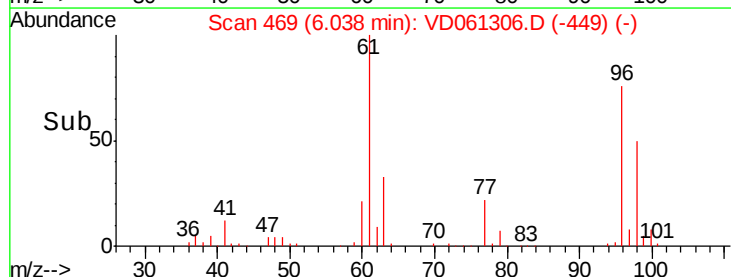
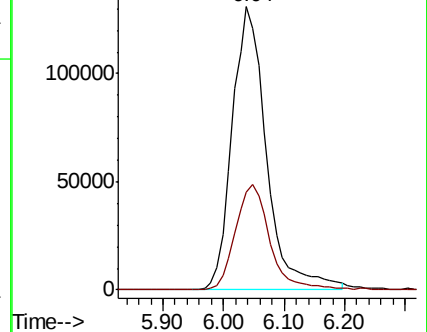
77 100

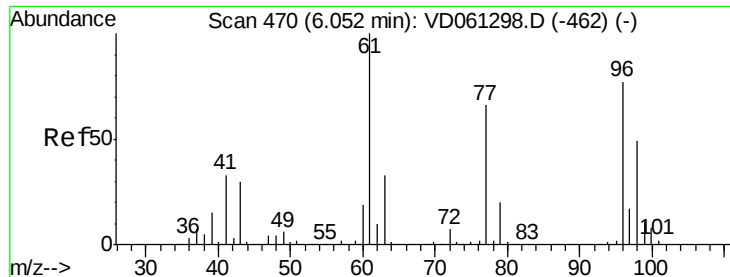
97 34.4 13.5 40.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



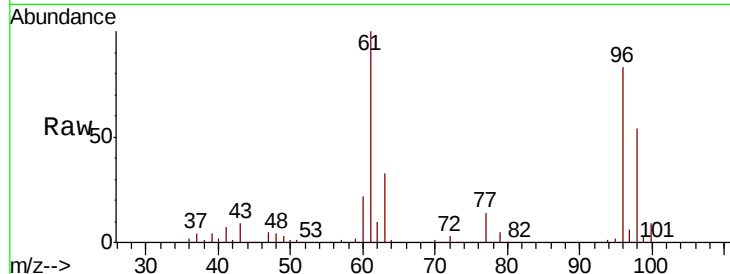


#27

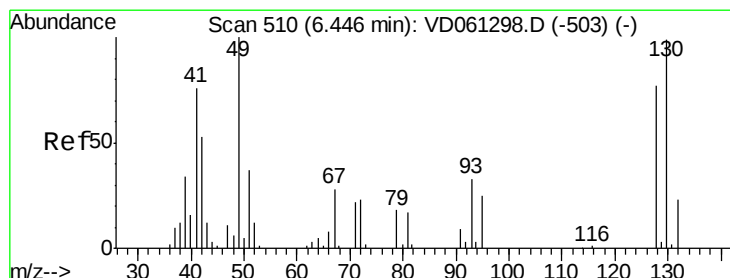
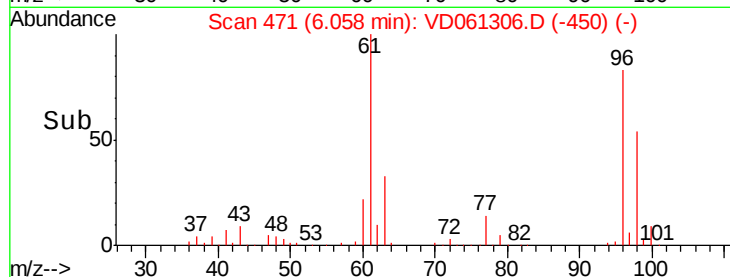
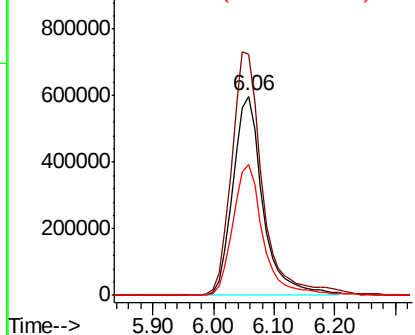
cis-1,2-Dichloroethene
Concen: 251.706 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion: 96 Resp: 2054916
Ion Ratio Lower Upper
96 100
61 120.7 0.0 261.0
98 65.7 0.0 127.6



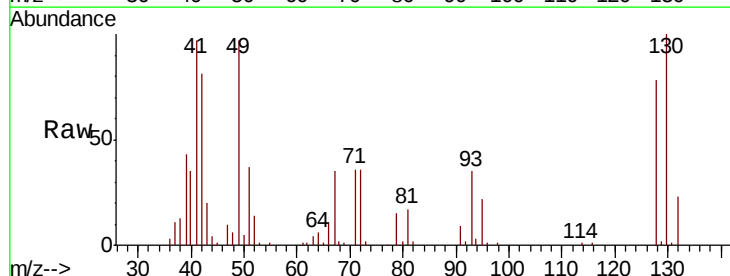
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



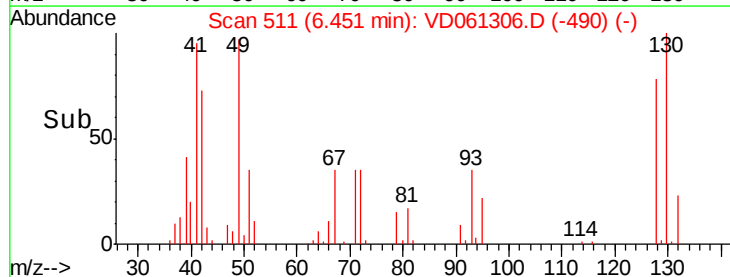
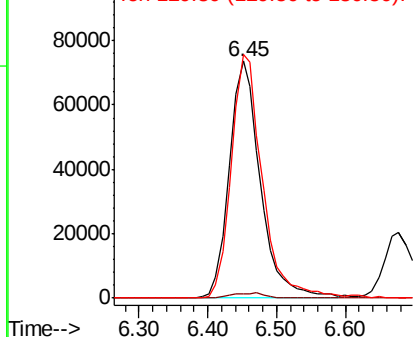
#28

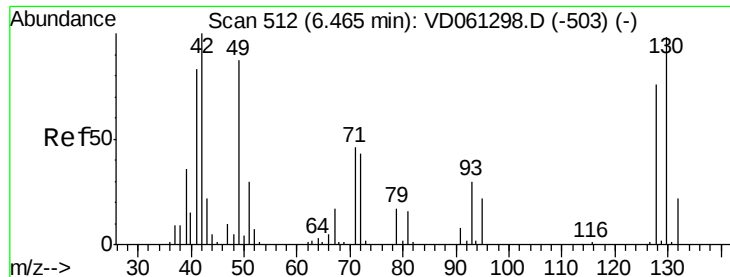
Bromochloromethane
Concen: 46.480 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 49 Resp: 229748
Ion Ratio Lower Upper
49 100
129 2.0 0.0 5.2
130 102.8 79.0 118.6



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: 321.659 ug/l

RT: 6.46 min Scan# 512

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

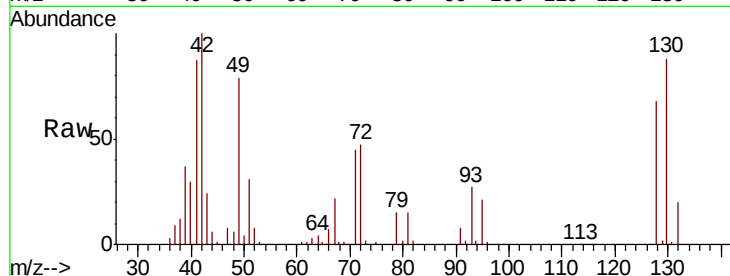
Tot Ion: 42 Resp: 268439

Ion Ratio Lower Upper

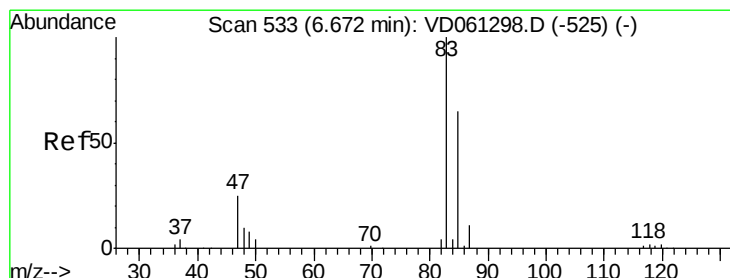
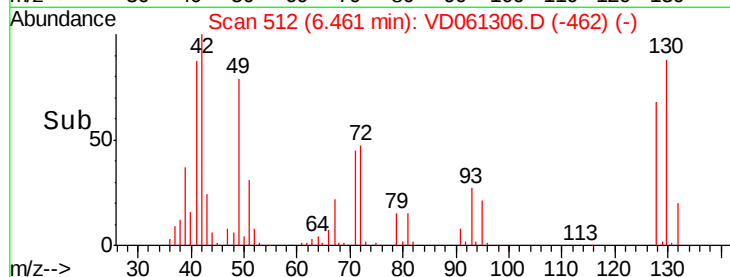
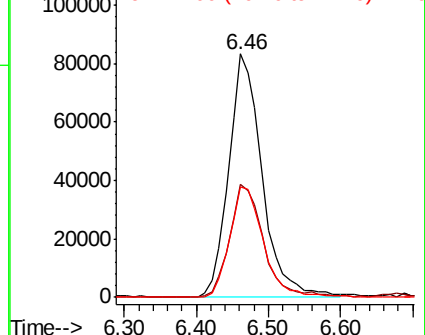
42 100

72 47.0 36.6 54.8

71 45.9 36.3 54.5



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



#30

Chloroform

Concen: 59.324 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.01 min

Lab File: VD061306.D

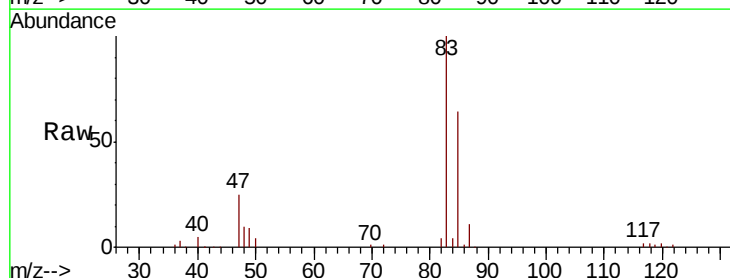
Acq: 25 Mar 2019 17:11

Tgt Ion: 83 Resp: 746547

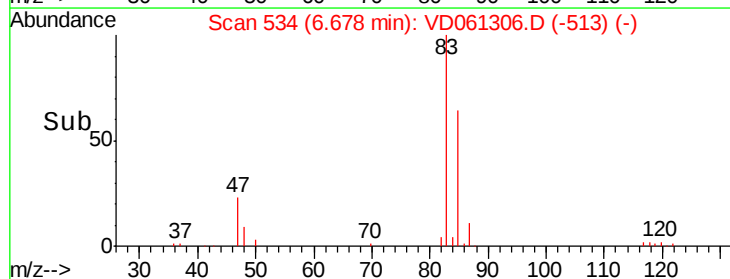
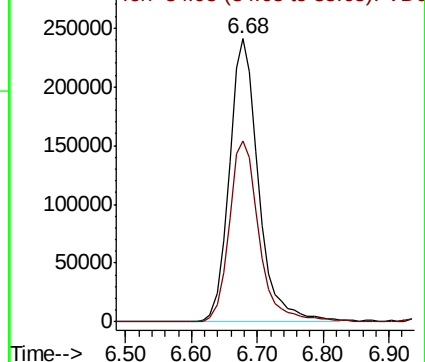
Ion Ratio Lower Upper

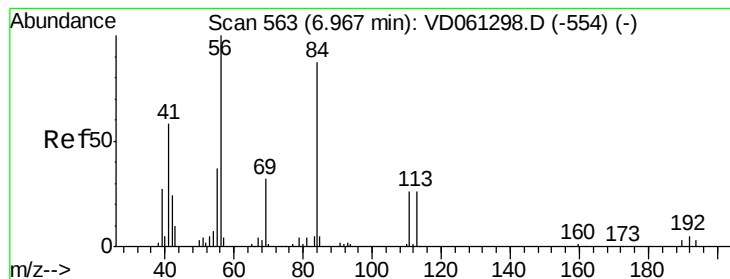
83 100

85 63.9 52.2 78.2



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





#31

Cyclohexane

Concen: 53.694 ug/l

RT: 6.97 min Scan# 564

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

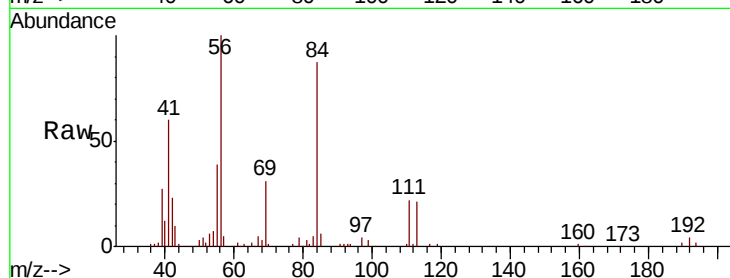
Tot Ion: 56 Resp: 514649

Ion Ratio Lower Upper

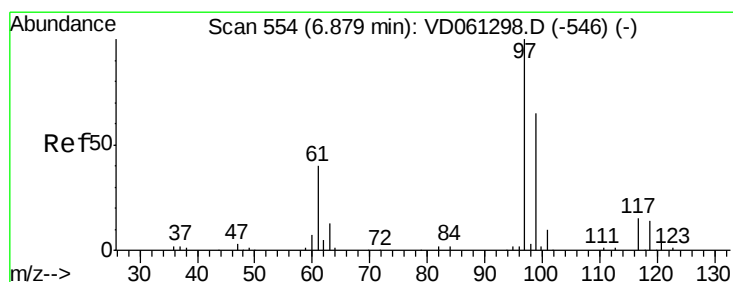
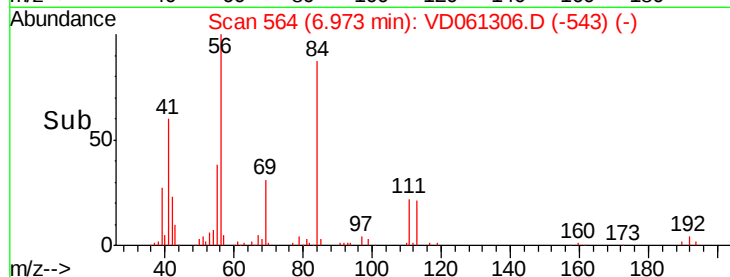
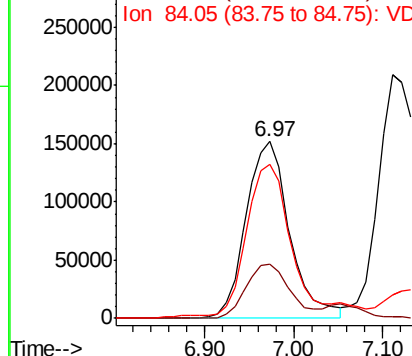
56 100

69 30.5 25.5 38.3

84 86.8 71.4 107.2



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



#32

1,1,1-Trichloroethane

Concen: 53.983 ug/l

RT: 6.88 min Scan# 555

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

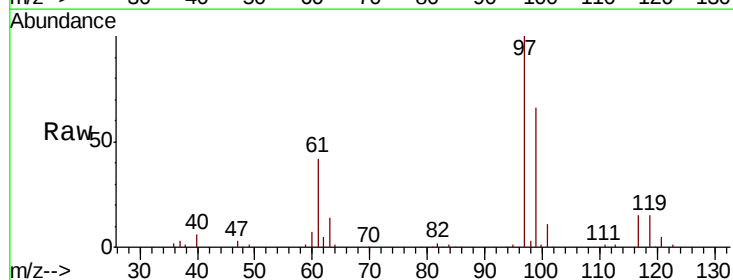
Tgt Ion: 97 Resp: 601658

Ion Ratio Lower Upper

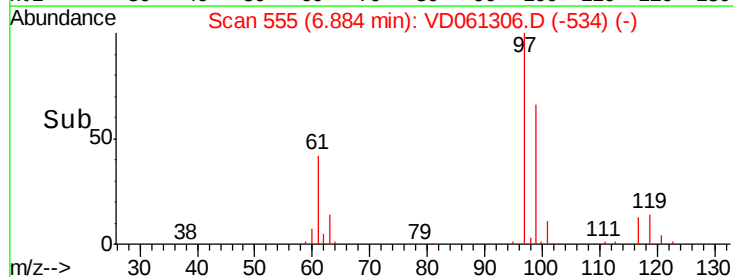
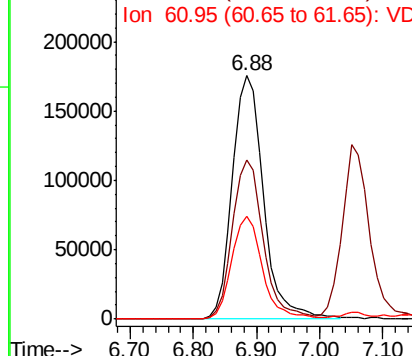
97 100

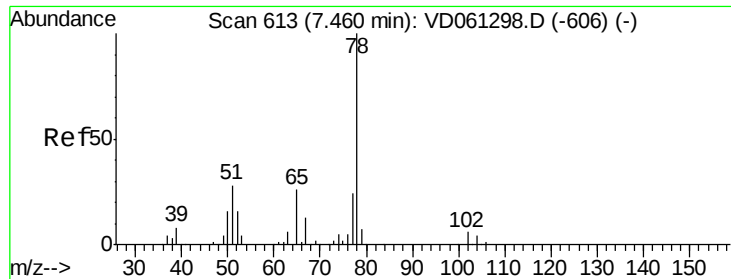
99 65.6 51.8 77.6

61 42.1 31.9 47.9



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





#33

1,2-Dichloroethane-d4

Concen: 53.983 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

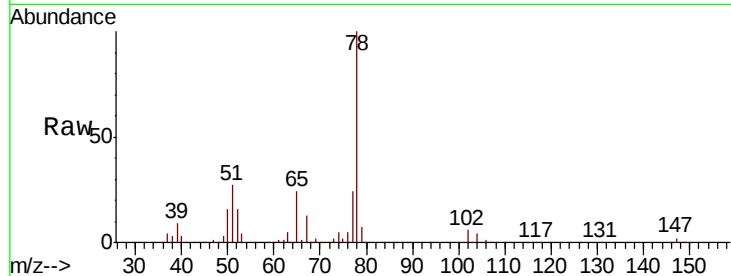
WP022SB441-190319-(23-25)MSD

Tot Ion: 65 Resp: 303988

Ion Ratio Lower Upper

65 100

67 52.3 0.0 100.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.47

120000

100000

80000

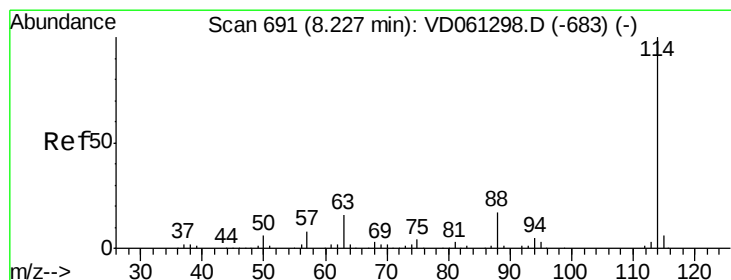
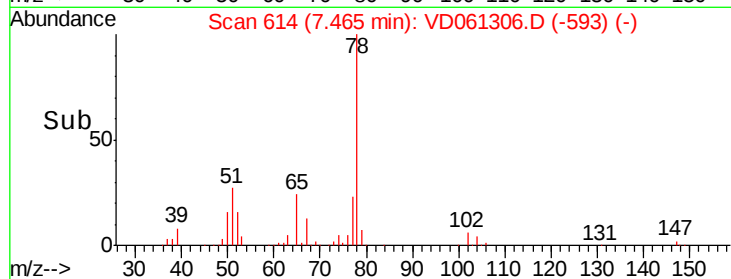
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

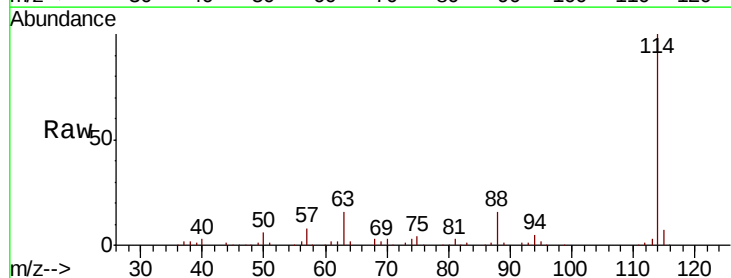
Tgt Ion:114 Resp: 1174926

Ion Ratio Lower Upper

114 100

63 16.0 0.0 31.4

88 16.0 0.0 33.2



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

8.22

500000

400000

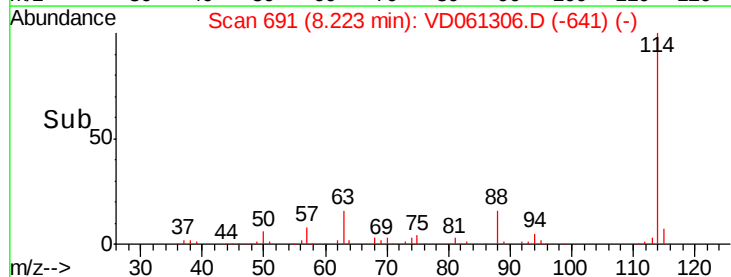
300000

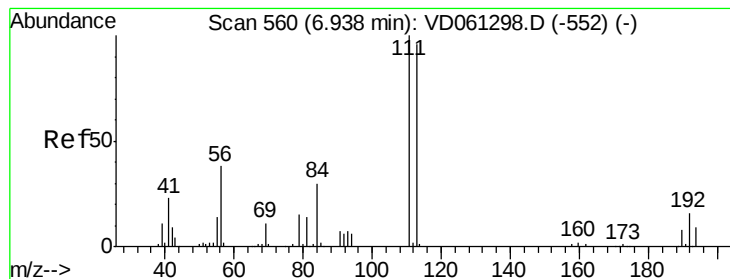
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

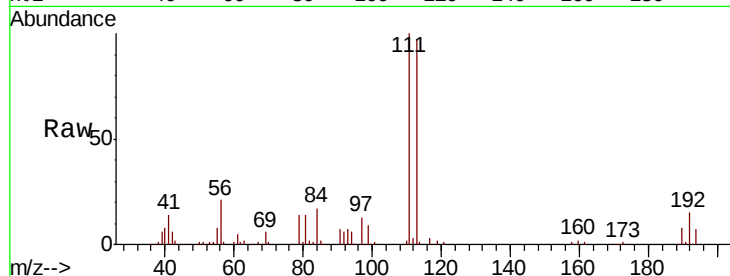
Tot Ion:113 Resp: 478527

Ion Ratio Lower Upper

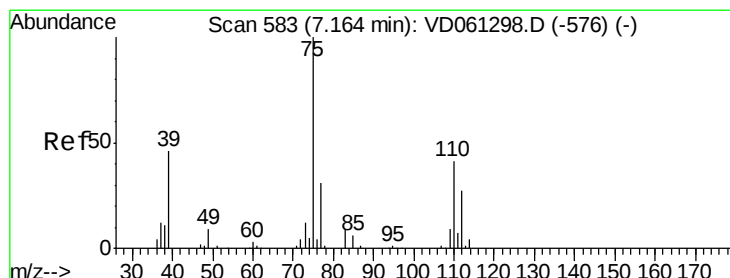
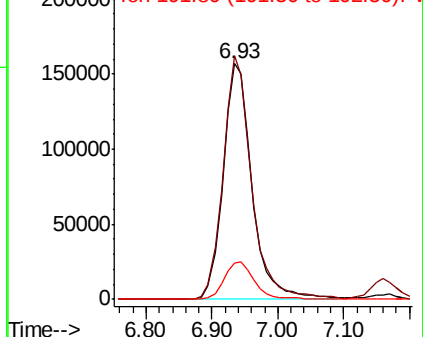
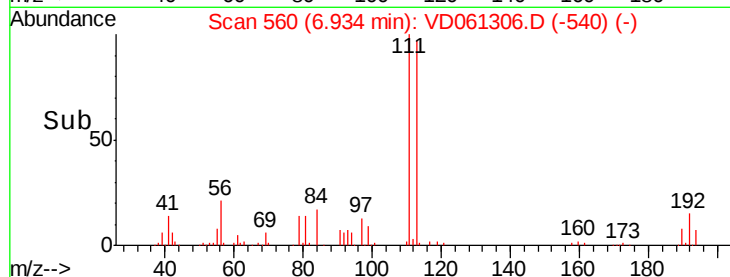
113 100

111 103.3 83.7 125.5

192 15.6 13.4 20.0



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



#36

1,1-Dichloropropene

Concen: 52.590 ug/l

RT: 7.16 min Scan# 583

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

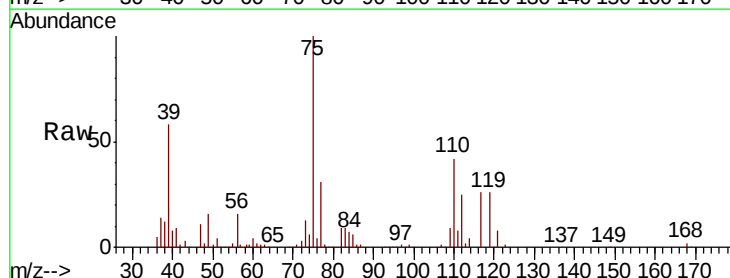
Tgt Ion: 75 Resp: 505539

Ion Ratio Lower Upper

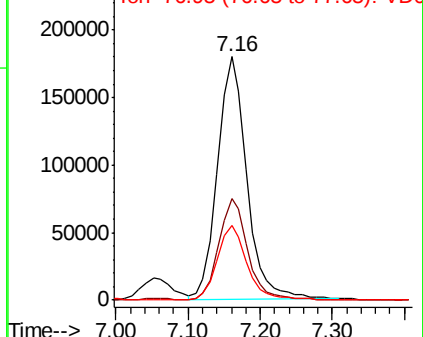
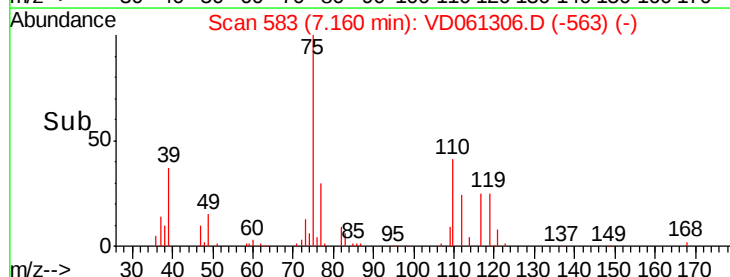
75 100

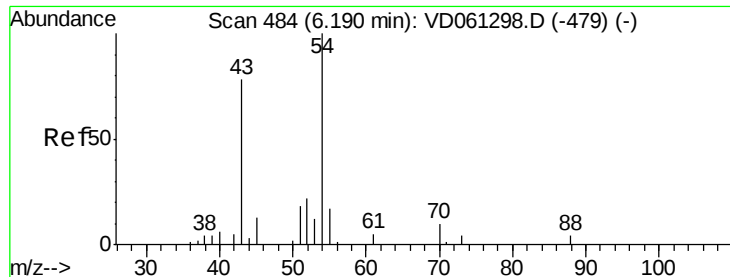
110 41.6 20.1 60.2

77 30.7 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

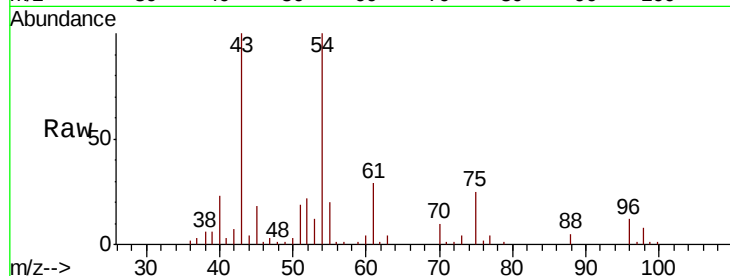




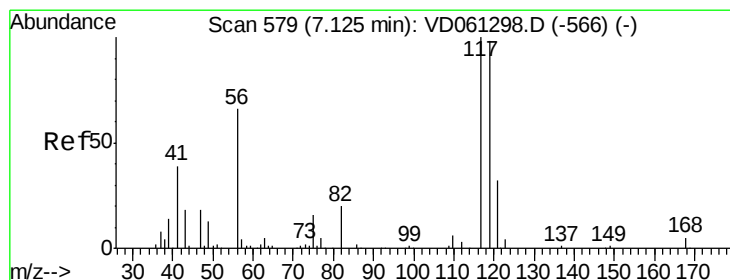
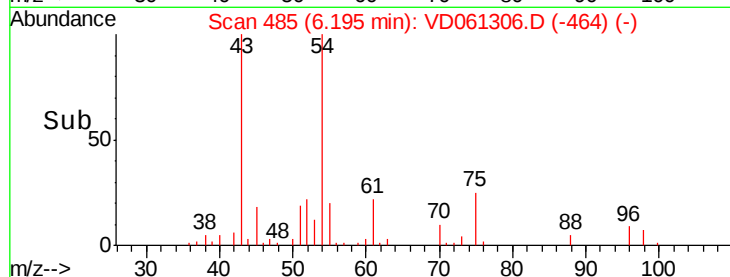
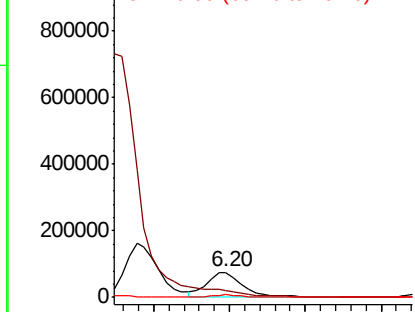
#37
Ethyl Acetate
Concen: 61.583 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion: 43 Resp: 247262
Ion Ratio Lower Upper
43 100
61 28.8 12.6 19.0#
70 10.4 8.2 12.4

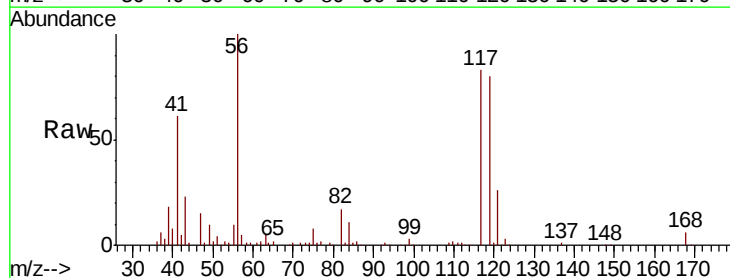


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

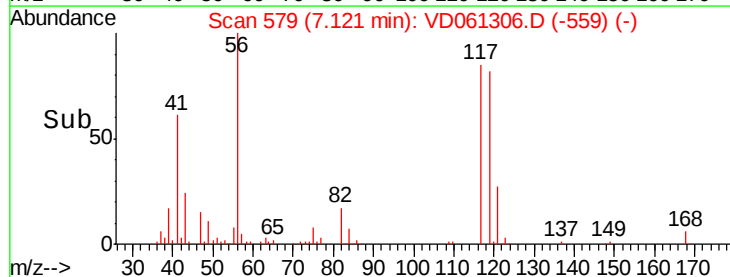
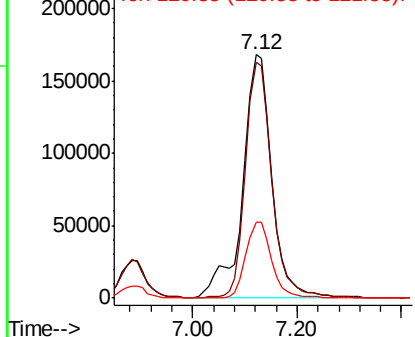


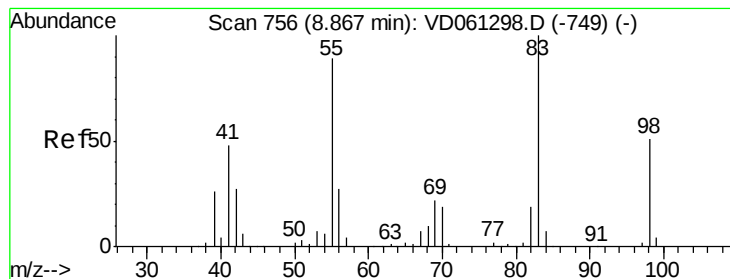
#38
Carbon Tetrachloride
Concen: 57.217 ug/l
RT: 7.12 min Scan# 579
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 117 Resp: 628623
Ion Ratio Lower Upper
117 100
119 96.7 78.4 117.6
121 31.4 25.1 37.7



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: 47.027 ug/l

RT: 8.87 min Scan# 757

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

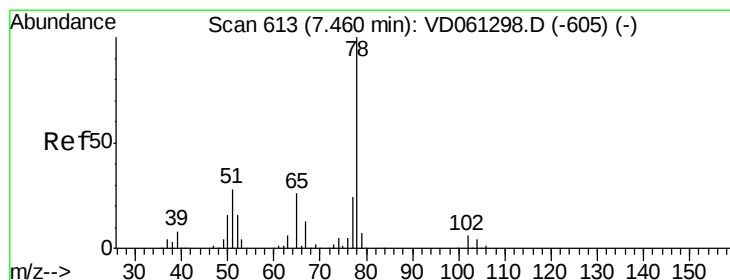
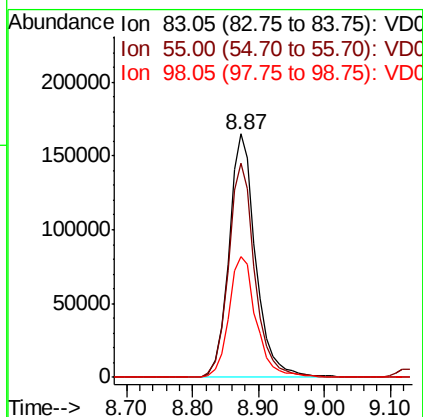
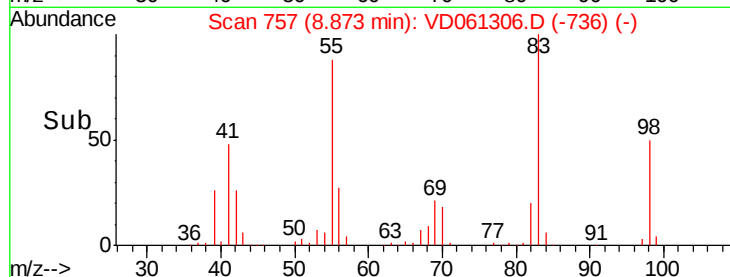
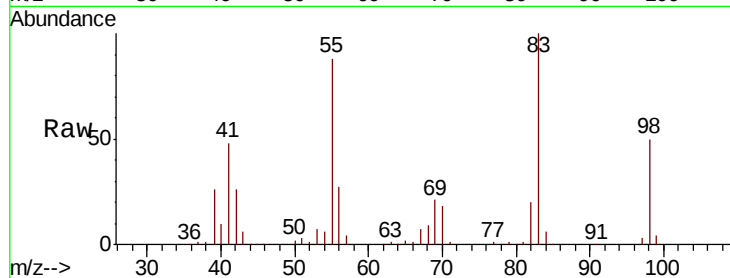
Tot Ion: 83 Resp: 468185

Ion Ratio Lower Upper

83 100

55 87.8 71.3 106.9

98 49.5 40.4 60.6



#40

Benzene

Concen: 55.949 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061306.D

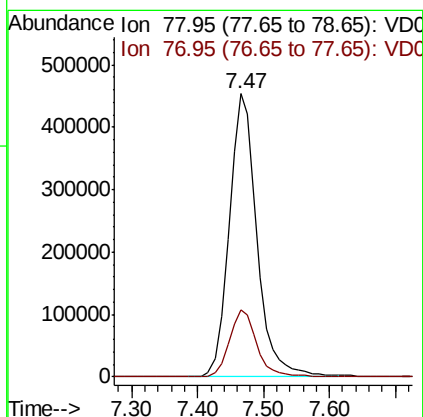
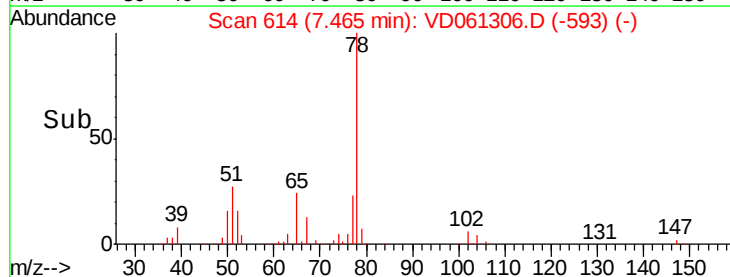
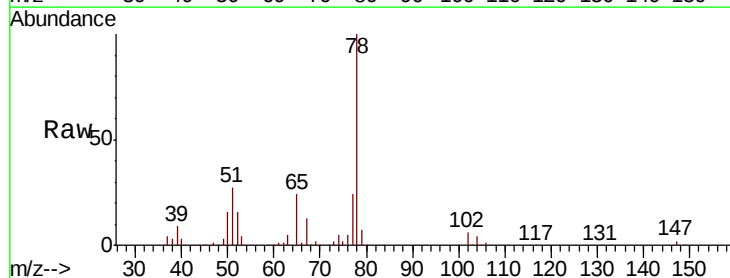
Acq: 25 Mar 2019 17:11

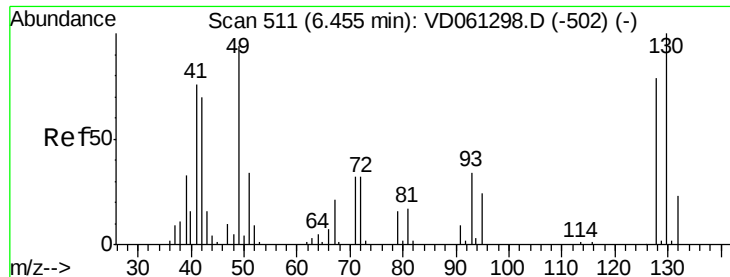
Tgt Ion: 78 Resp: 1335732

Ion Ratio Lower Upper

78 100

77 23.7 18.8 28.2

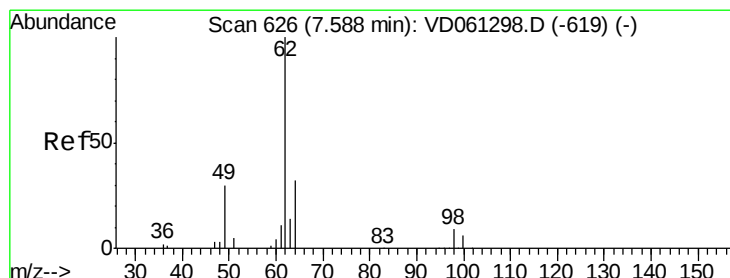
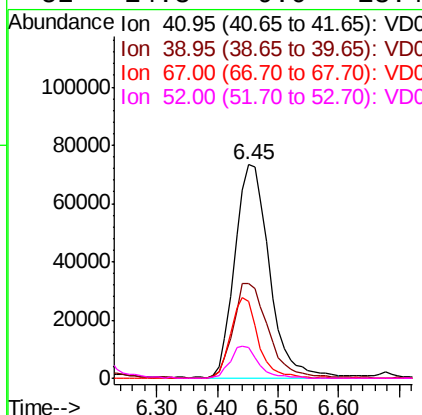
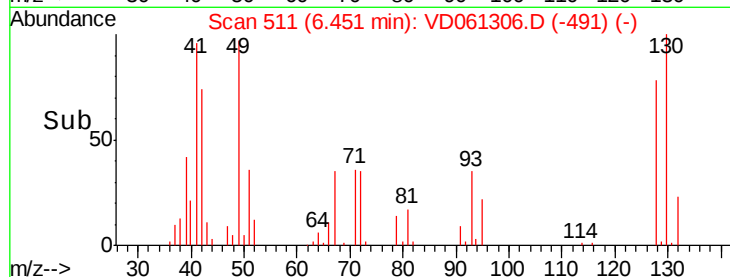
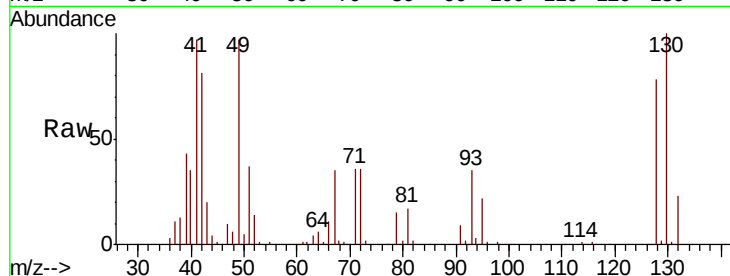




#41
Methacrylonitrile
Concen: 62.789 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

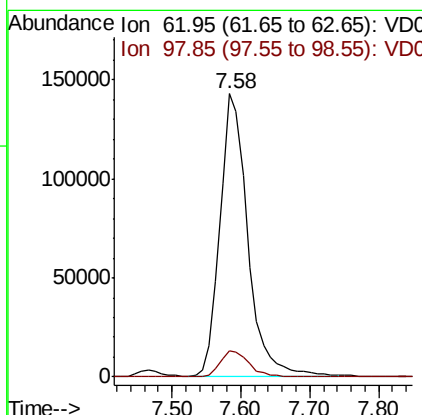
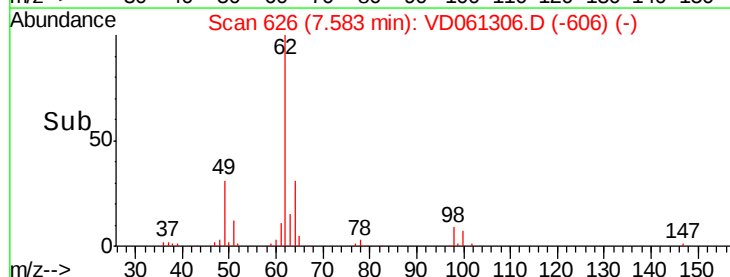
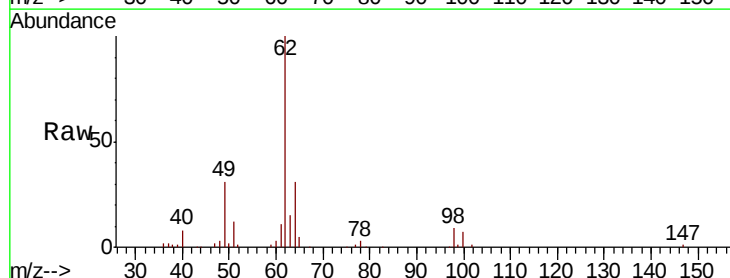
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

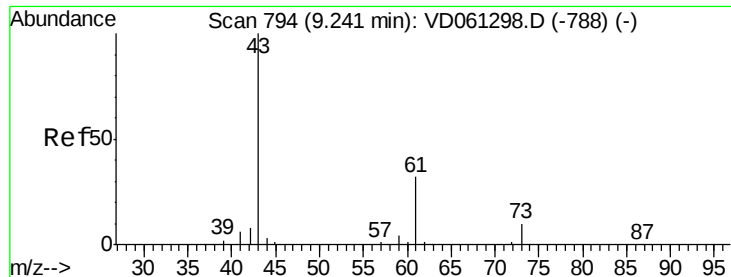
Tot Ion: 41 Resp: 292955
Ion Ratio Lower Upper
41 100
39 44.5 34.2 51.2
67 35.8 21.8 32.6#
52 14.3 9.0 13.4#



#42
1,2-Dichloroethane
Concen: 54.079 ug/l
RT: 7.58 min Scan# 626
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 62 Resp: 402372
Ion Ratio Lower Upper
62 100
98 9.4 0.0 18.6





#43

Isopropyl Acetate

Concen: 59.815 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

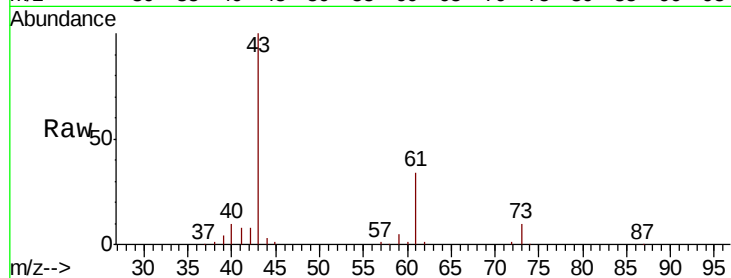
Tot Ion: 43 Resp: 346288

Ion Ratio Lower Upper

43 100

61 33.6 25.8 38.8

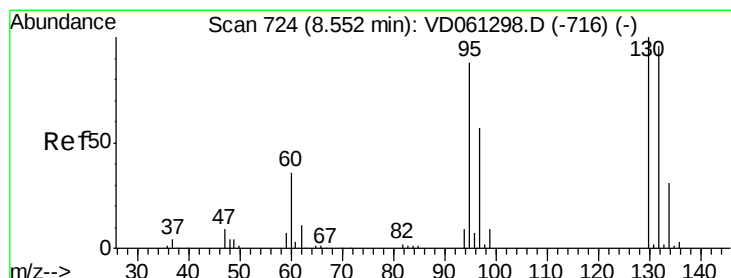
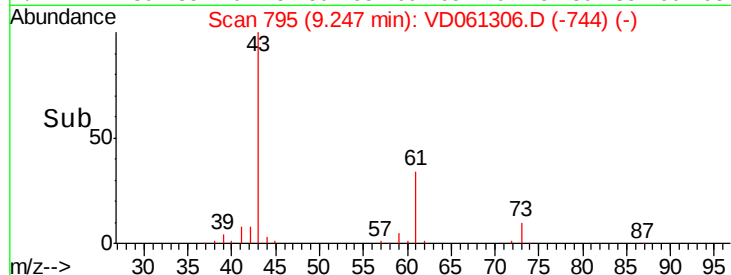
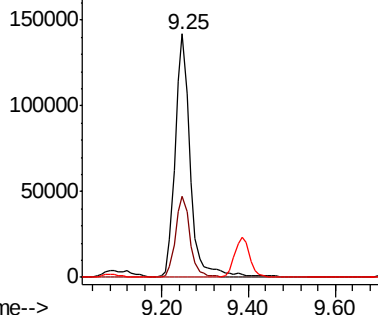
87 0.2 0.3 0.5#



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: 60.515 ug/l

RT: 8.55 min Scan# 724

Delta R.T. -0.00 min

Lab File: VD061306.D

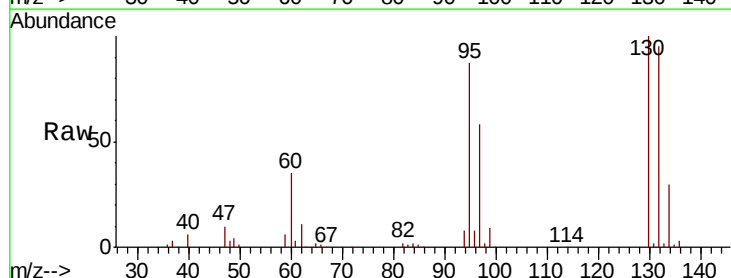
Acq: 25 Mar 2019 17:11

Tgt Ion:130 Resp: 522494

Ion Ratio Lower Upper

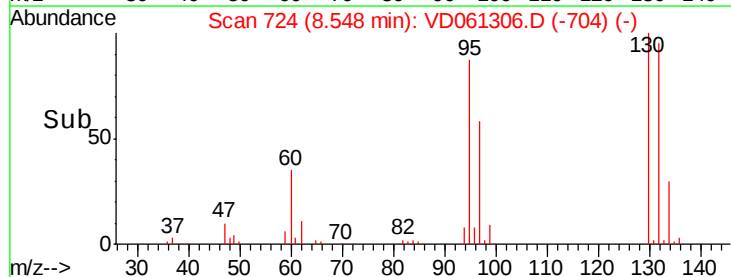
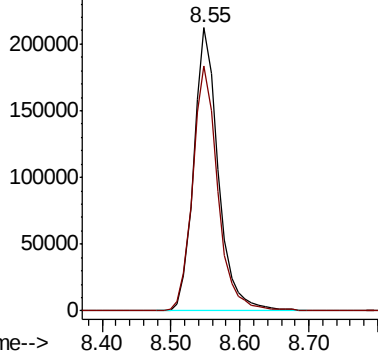
130 100

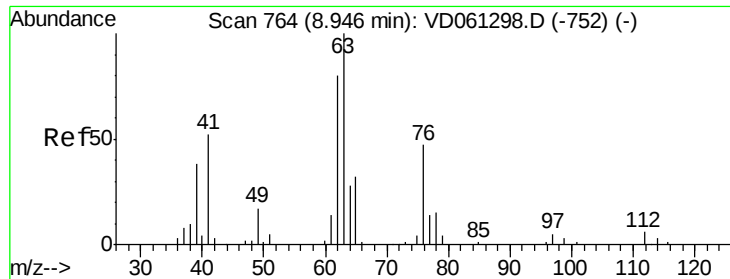
95 86.6 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 63.227 ug/l

RT: 8.95 min Scan# 765

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

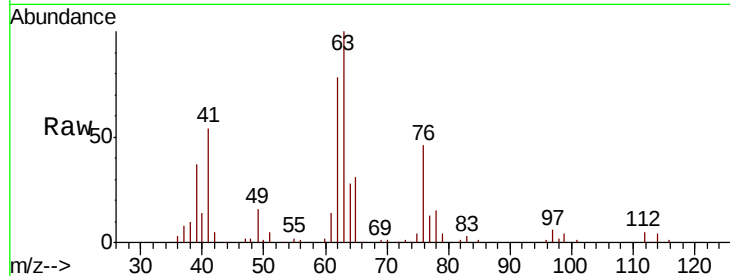
WP022SB441-190319-(23-25)MSD

Tot Ion: 63 Resp: 372555

Ion Ratio Lower Upper

63 100

65 30.7 25.2 37.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.95

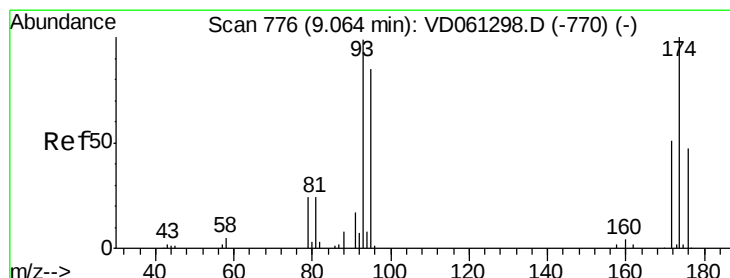
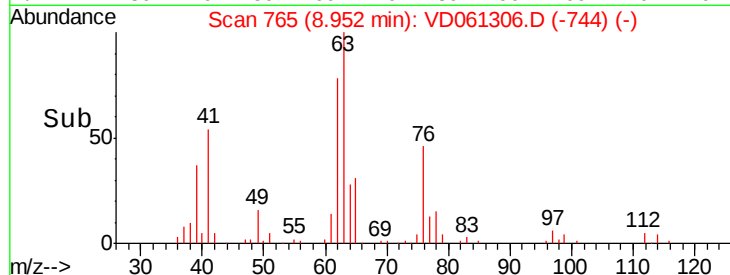
150000

100000

50000

0

Time--> 8.70 8.80 8.90 9.00 9.10



#46

Dibromomethane

Concen: 60.341 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

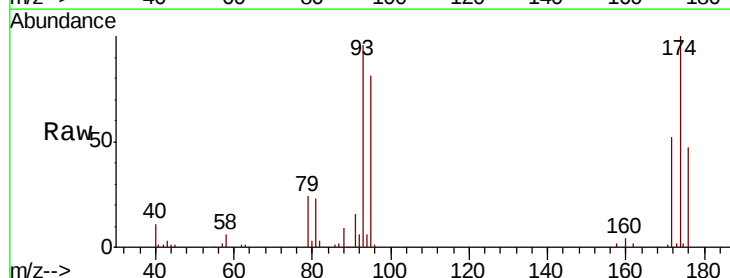
Tgt Ion: 93 Resp: 243714

Ion Ratio Lower Upper

93 100

95 84.9 68.1 102.1

174 104.5 80.4 120.6



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

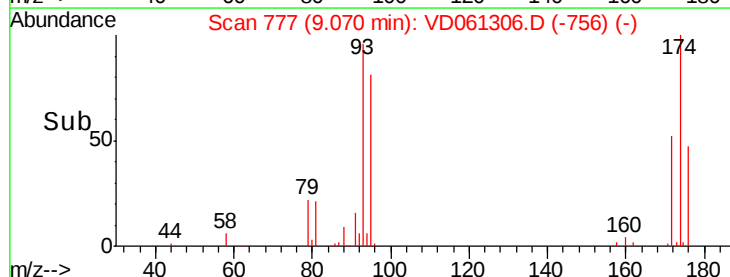
9.07

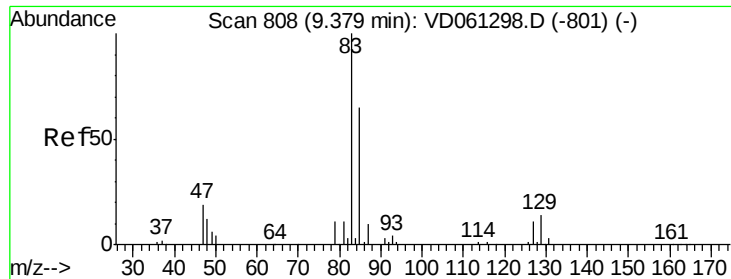
100000

50000

0

Time--> 9.00 9.10 9.20

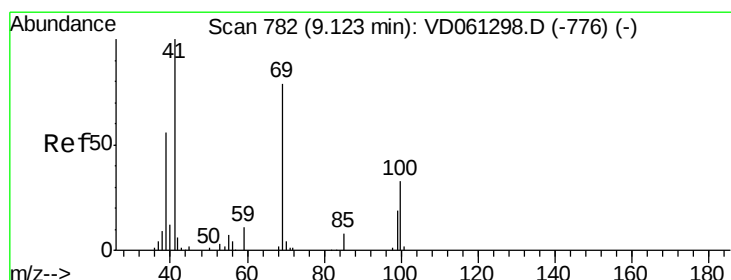
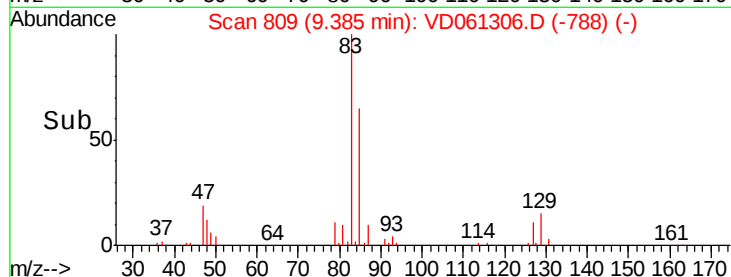
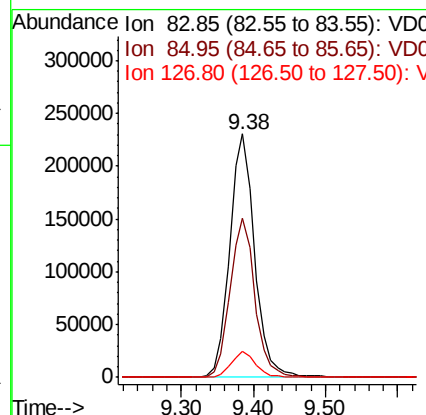
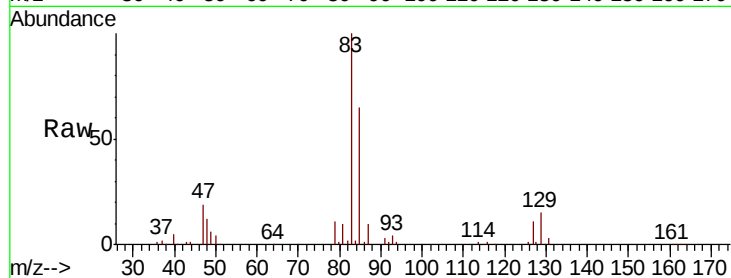




#47
Bromodichloromethane
Concen: 58.356 ug/l
RT: 9.38 min Scan# 809
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

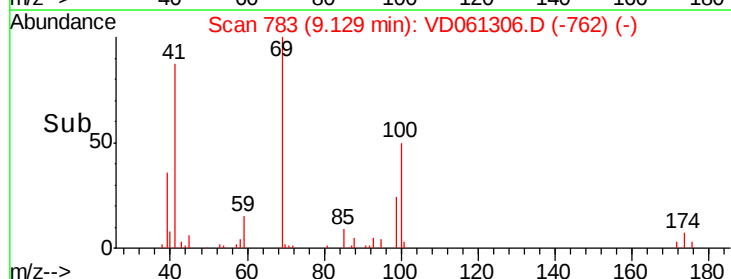
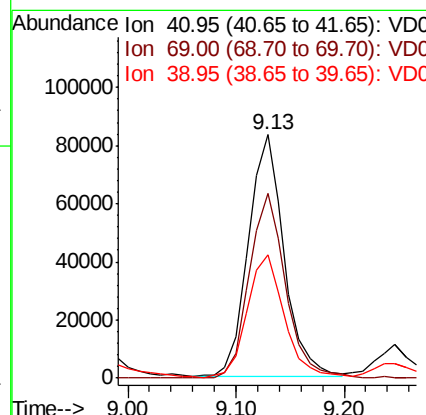
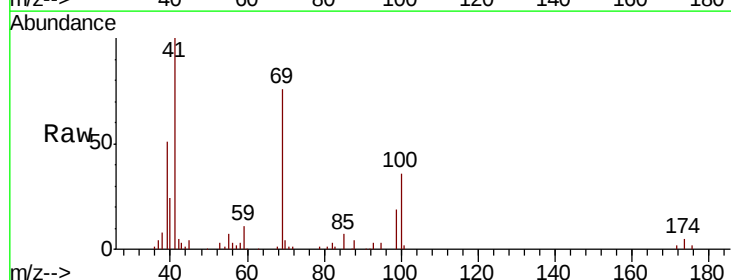
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

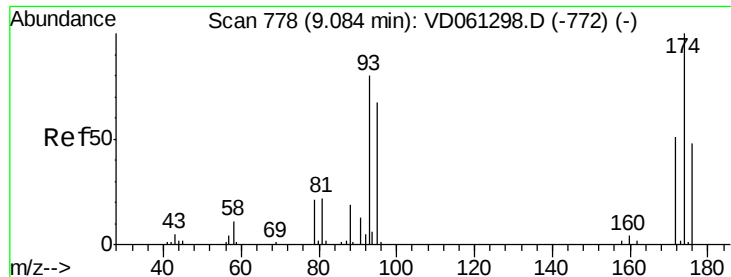
Tot Ion: 83 Resp: 552435
Ion Ratio Lower Upper
83 100
85 65.2 51.7 77.5
127 10.8 8.8 13.2



#48
Methyl methacrylate
Concen: 61.318 ug/l
RT: 9.13 min Scan# 783
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 41 Resp: 189469
Ion Ratio Lower Upper
41 100
69 75.9 62.4 93.6
39 50.9 44.9 67.3

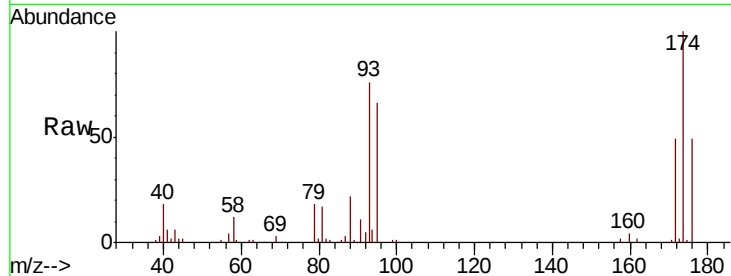




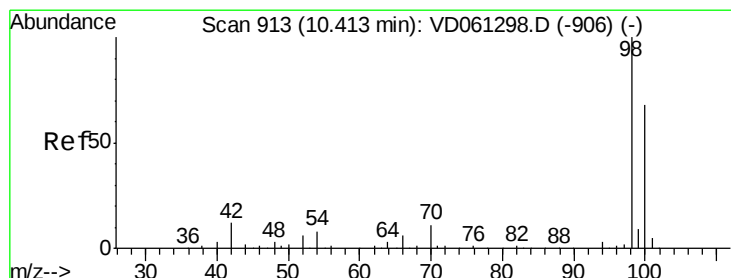
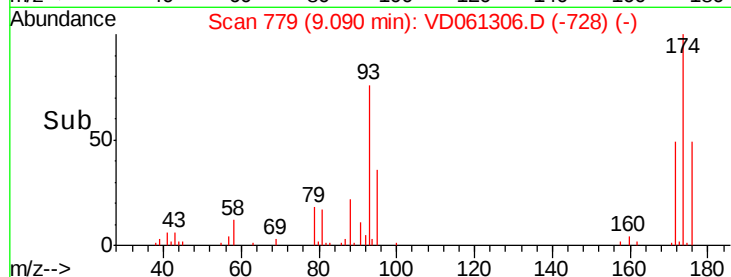
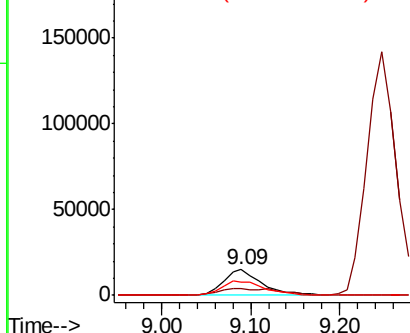
#49
1,4-Dioxane
Concen: 1304.963 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion: 88 Resp: 44242
Ion Ratio Lower Upper
88 100
43 27.9 20.7 31.1
58 53.2 44.9 67.3

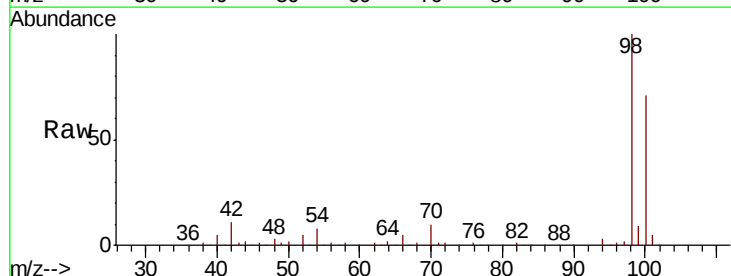


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

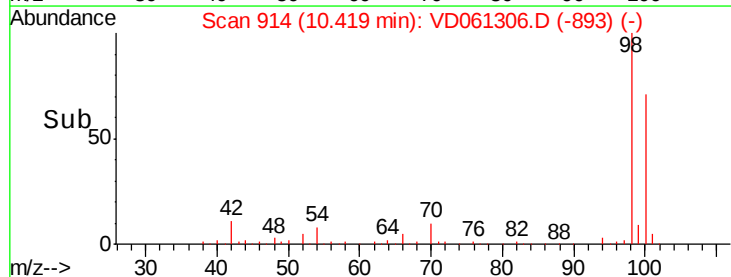
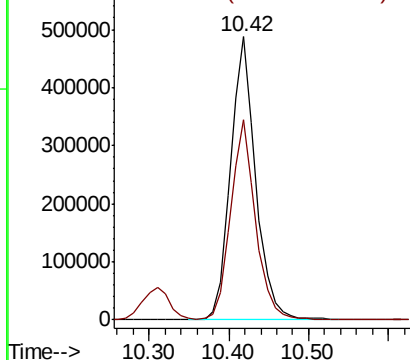


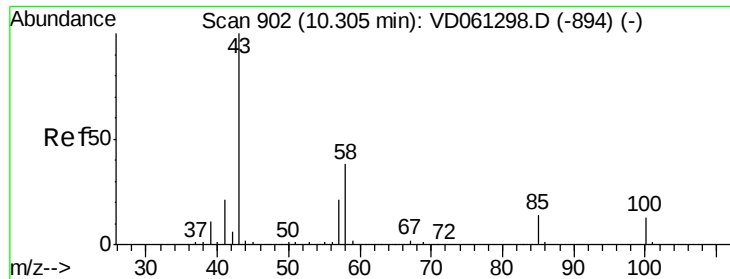
#50
Toluene-d8
Concen: 1304.963 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 98 Resp: 1072200
Ion Ratio Lower Upper
98 100
100 70.6 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

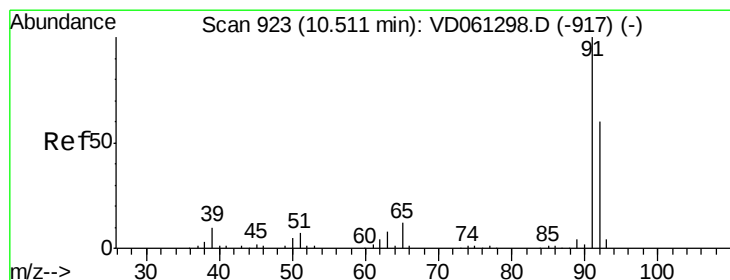
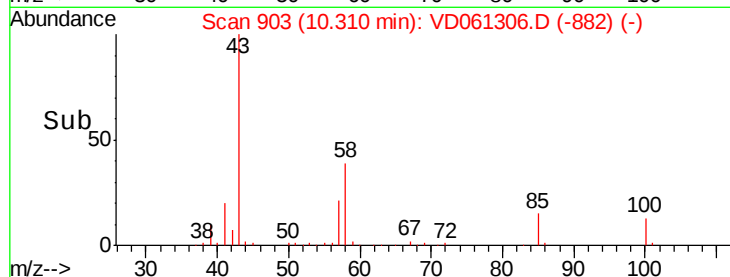
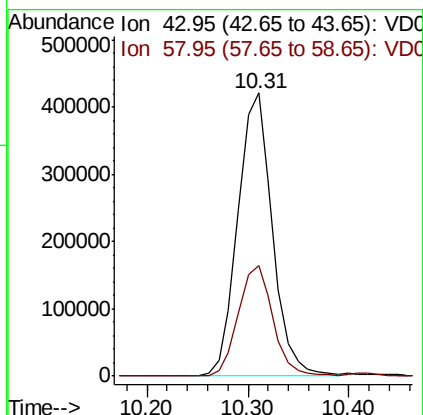
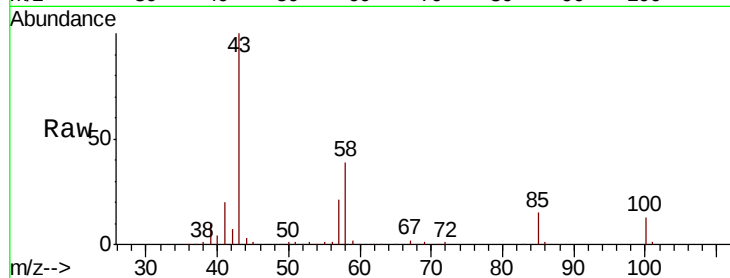




#51
4-Methyl-2-Pentanone
Concen: 291.592 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

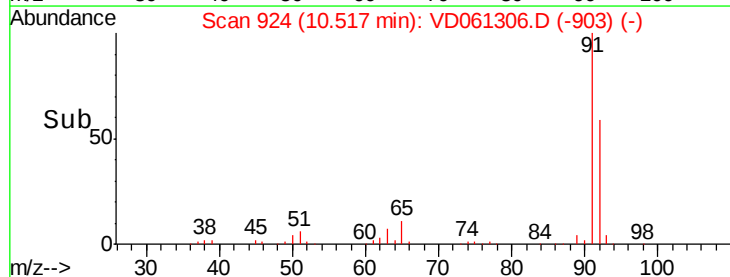
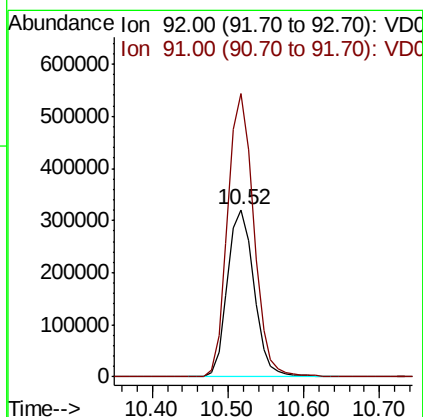
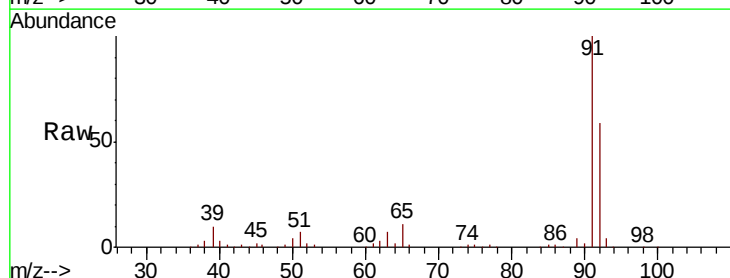
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

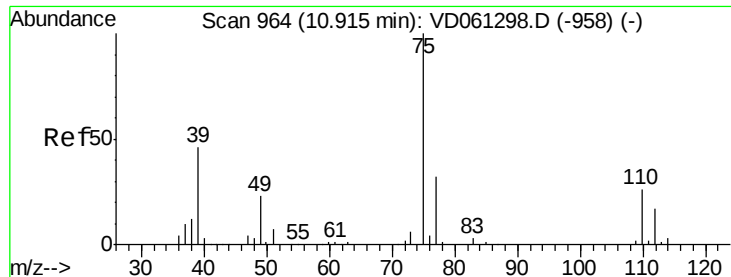
Tot Ion: 43 Resp: 1004920
Ion Ratio Lower Upper
43 100
58 39.2 30.6 45.8



#52
Toluene
Concen: 53.401 ug/l
RT: 10.52 min Scan# 924
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 92 Resp: 780079
Ion Ratio Lower Upper
92 100
91 169.4 133.1 199.7

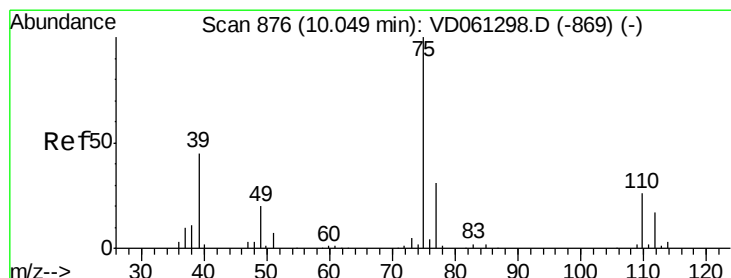
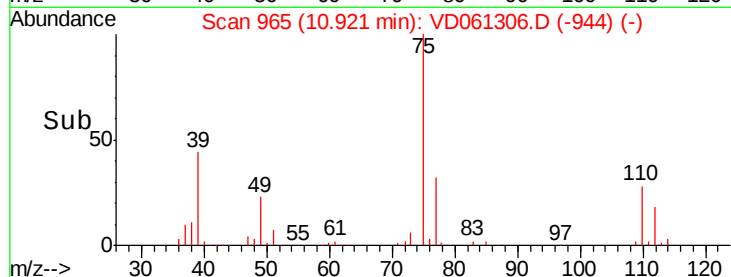
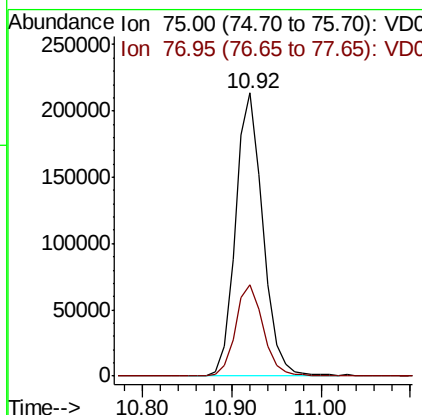
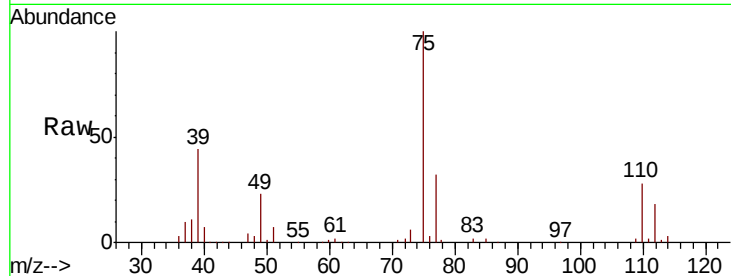




#53
t-1,3-Dichloropropene
Concen: 55.448 ug/l
RT: 10.92 min Scan# 965
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

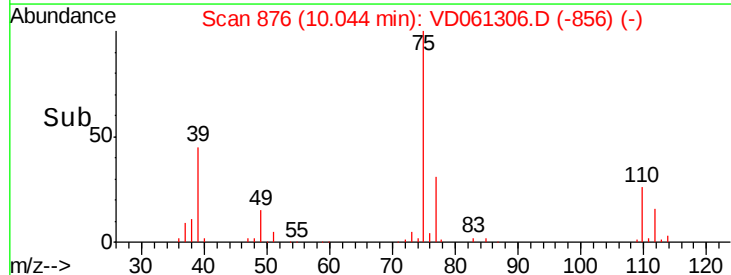
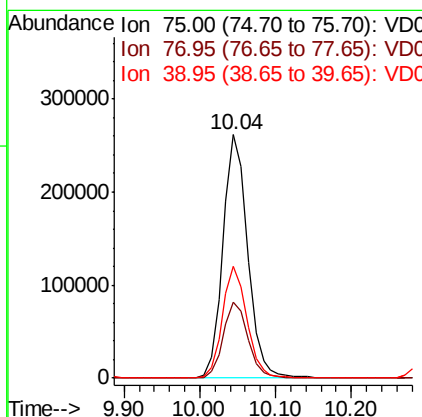
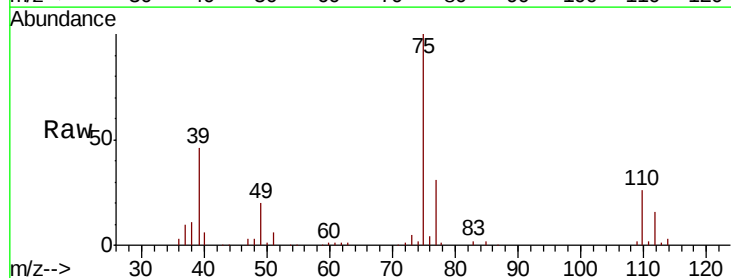
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

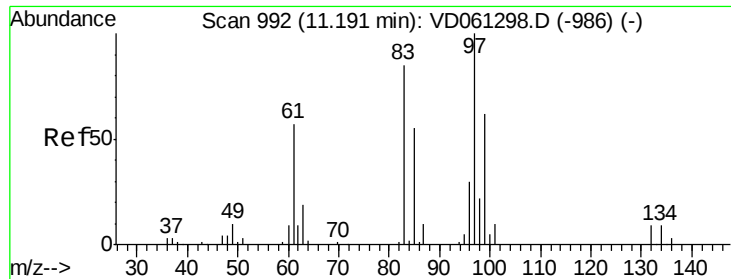
Tot Ion: 75 Resp: 456176
Ion Ratio Lower Upper
75 100
77 32.1 25.8 38.6



#54
cis-1,3-Dichloropropene
Concen: 59.137 ug/l
RT: 10.04 min Scan# 876
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 75 Resp: 594100
Ion Ratio Lower Upper
75 100
77 31.1 24.9 37.3
39 46.1 36.0 54.0

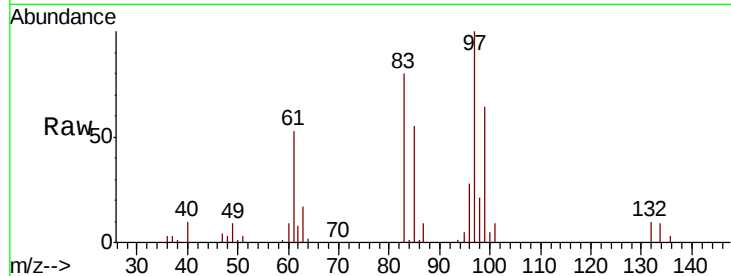




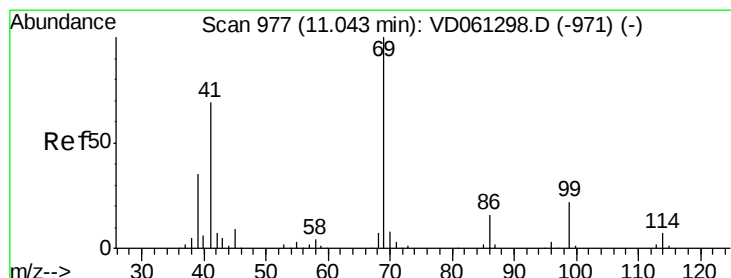
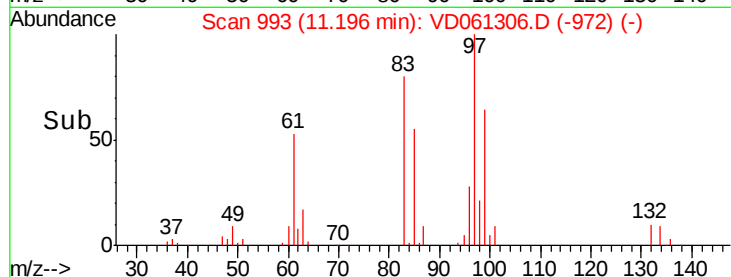
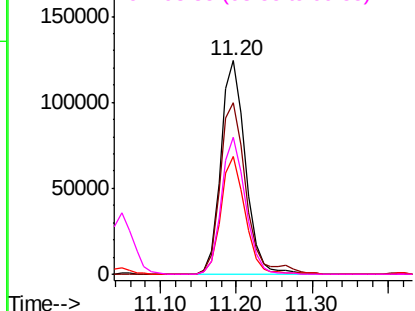
#55
 1,1,2-Trichloroethane
 Concen: 57.947 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

Tot Ion:	97	Resp:	281028
Ion	Ratio	Lower	Upper
97	100		
83	80.3	67.7	101.5
85	54.9	43.8	65.8
99	64.3	49.8	74.6

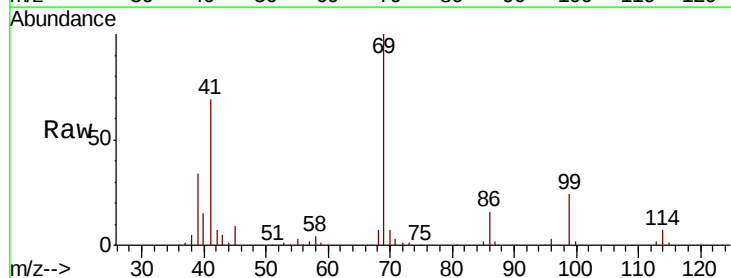


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

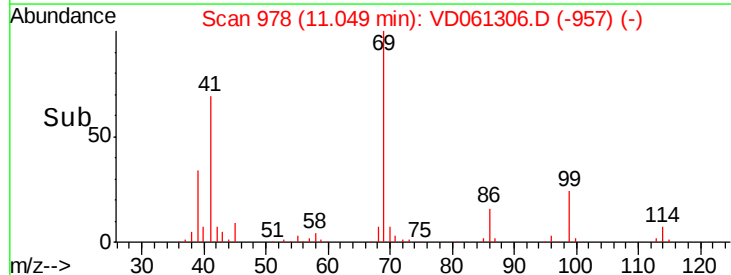
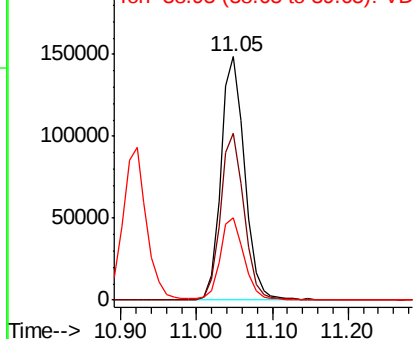


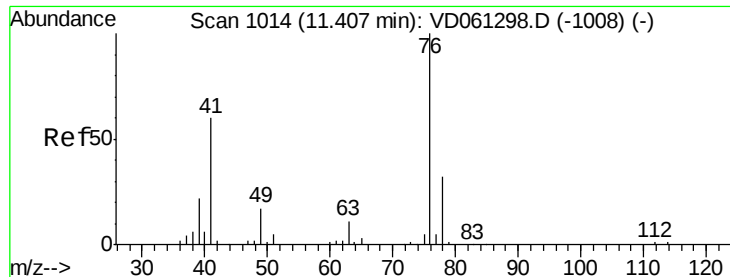
#56
 Ethyl methacrylate
 Concen: 62.318 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion:	69	Resp:	322501
Ion	Ratio	Lower	Upper
69	100		
41	68.5	54.9	82.3
39	34.0	28.5	42.7



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





#57

1,3-Dichloropropane

Concen: 56.958 ug/l

RT: 11.41 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

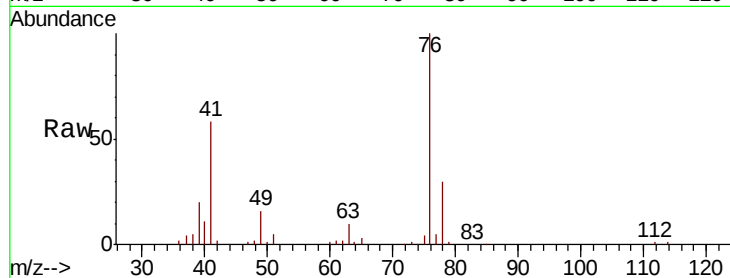
WP022SB441-190319-(23-25)MSD

Tot Ion: 76 Resp: 417181

Ion Ratio Lower Upper

76 100

78 30.4 25.7 38.5



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

250000

200000

150000

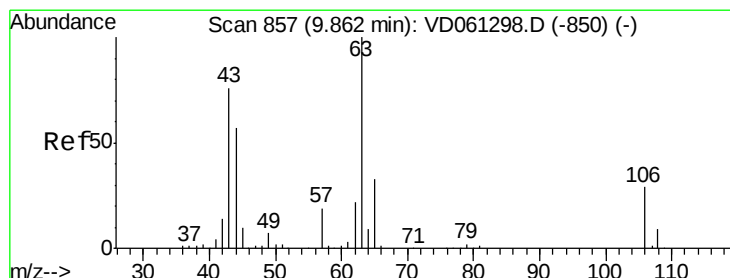
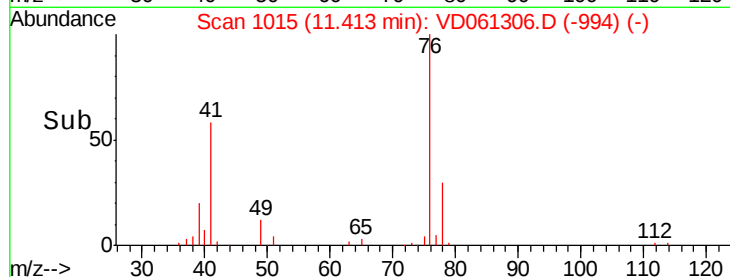
100000

50000

0

11.30 11.40 11.50 11.60

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 281.399 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.01 min

Lab File: VD061306.D

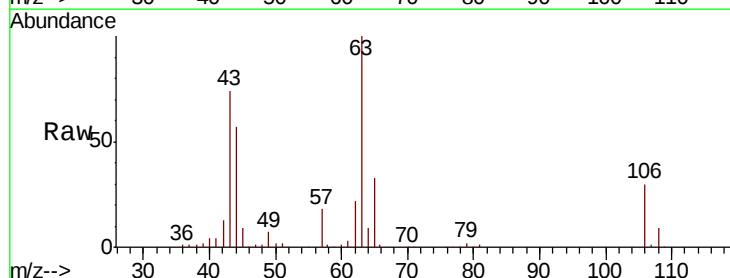
Acq: 25 Mar 2019 17:11

Tgt Ion: 63 Resp: 757609

Ion Ratio Lower Upper

63 100

106 30.3 23.4 35.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

400000

300000

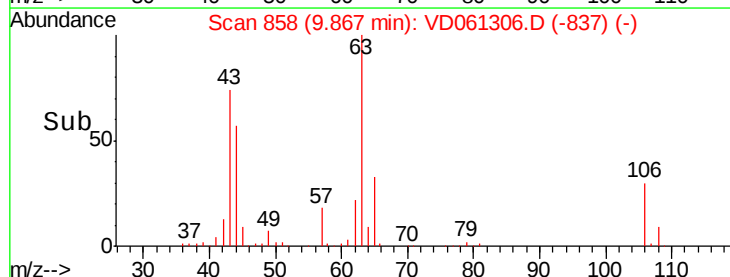
200000

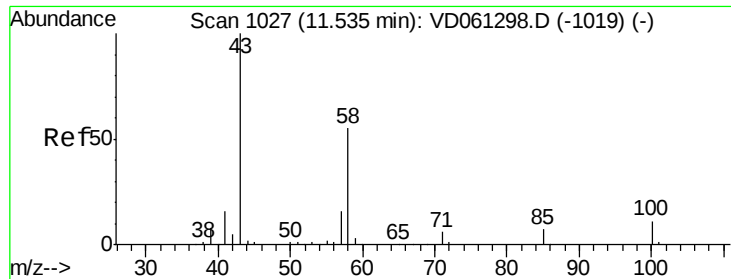
100000

0

9.70 9.80 9.90 10.00

Time-->

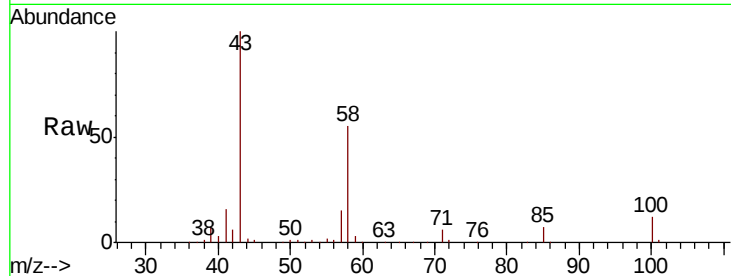




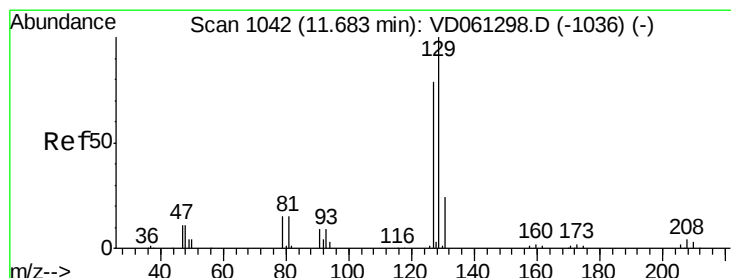
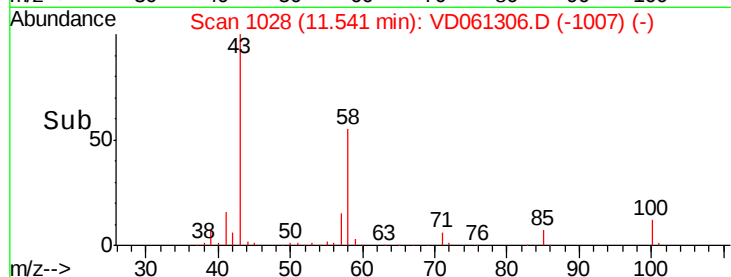
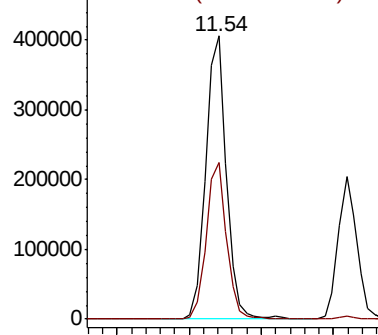
#59
2-Hexanone
Concen: 324.278 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion: 43 Resp: 811679
Ion Ratio Lower Upper
43 100
58 55.2 27.4 82.0

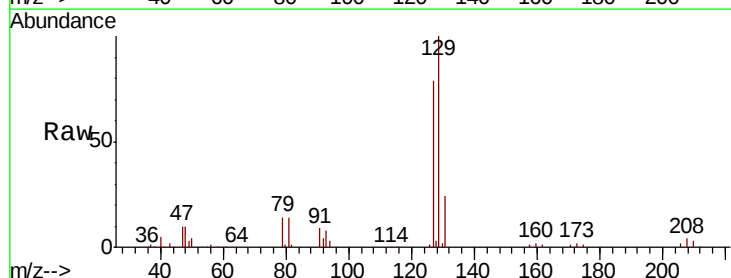


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

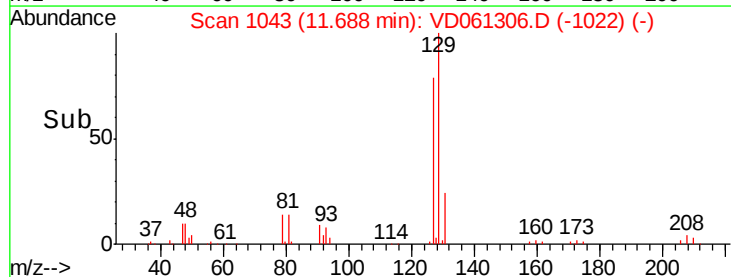
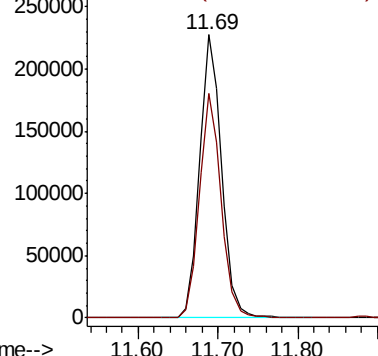


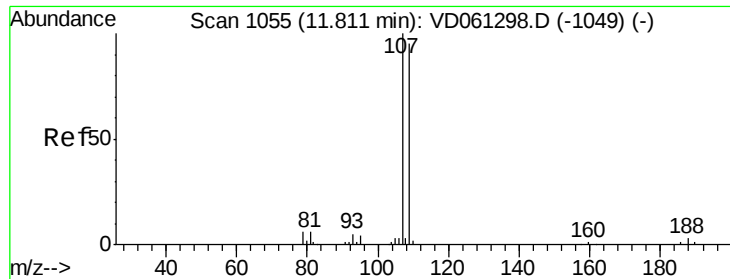
#60
Dibromochloromethane
Concen: 58.145 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 129 Resp: 441664
Ion Ratio Lower Upper
129 100
127 79.2 39.6 119.0



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

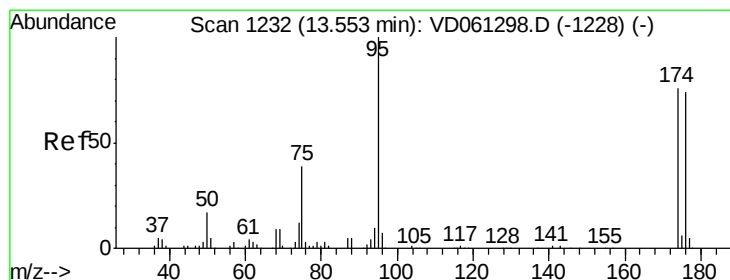
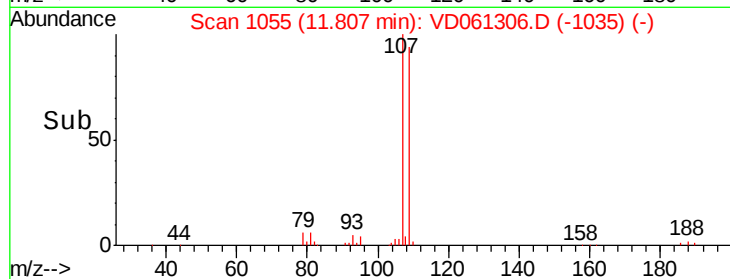
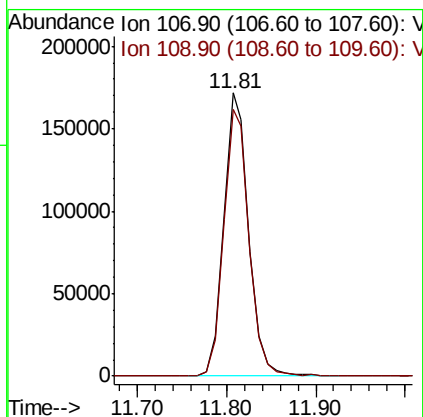
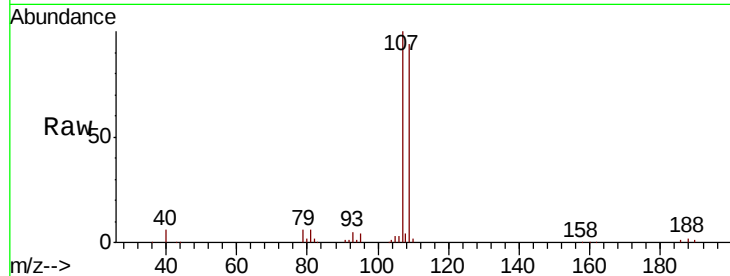




#61
 1,2-Dibromoethane
 Concen: 59.254 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

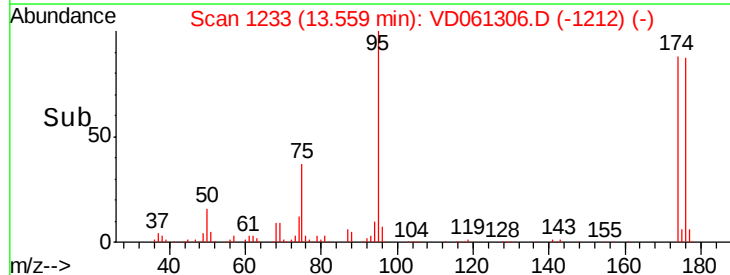
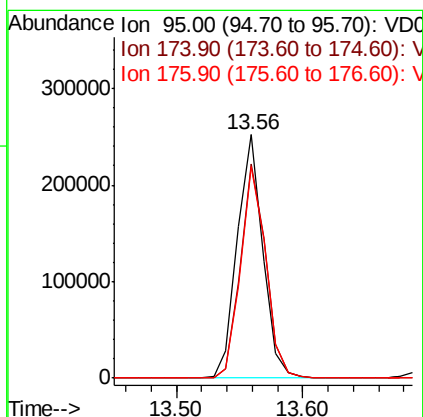
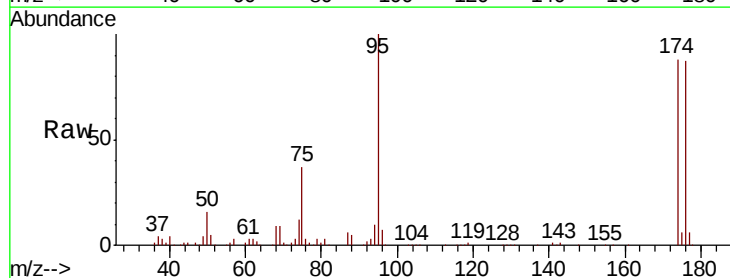
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

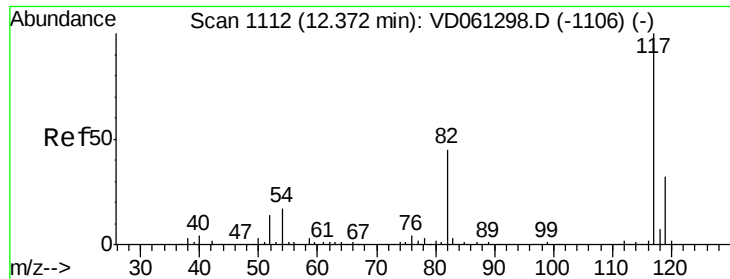
Tot Ion: 107 Resp: 335764
 Ion Ratio Lower Upper
 107 100
 109 94.2 76.1 114.1



#62
 4-Bromofluorobenzene
 Concen: 59.254 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion: 95 Resp: 350649
 Ion Ratio Lower Upper
 95 100
 174 88.2 0.0 151.8
 176 86.8 0.0 148.0

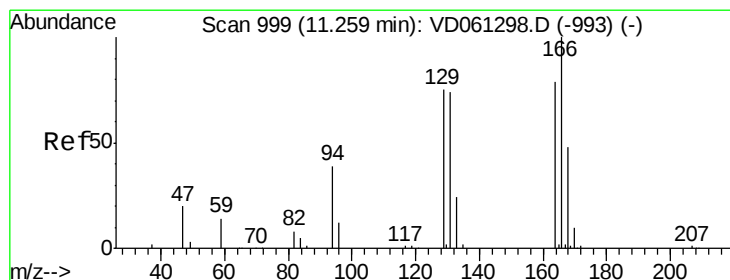
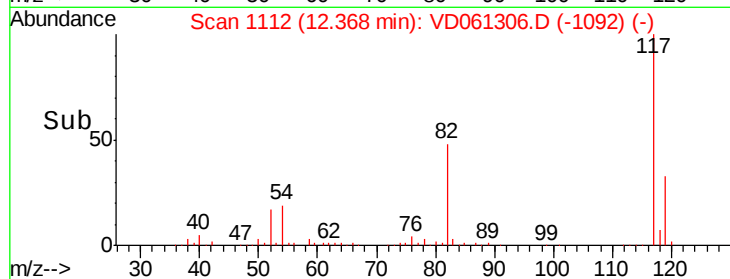
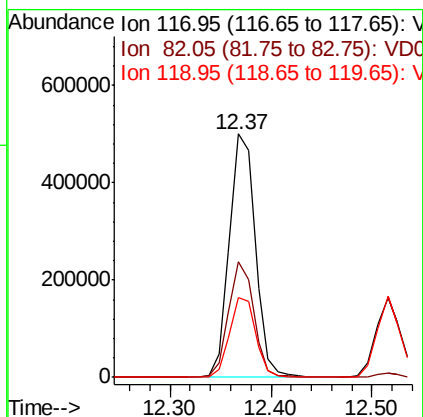
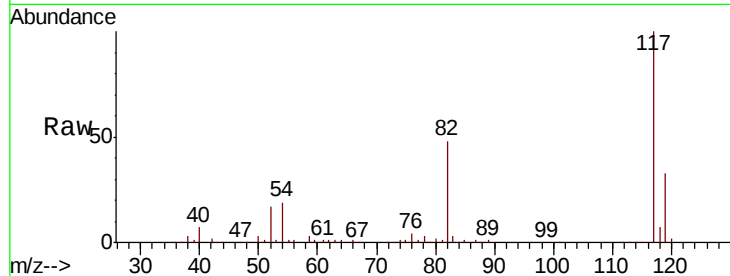




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

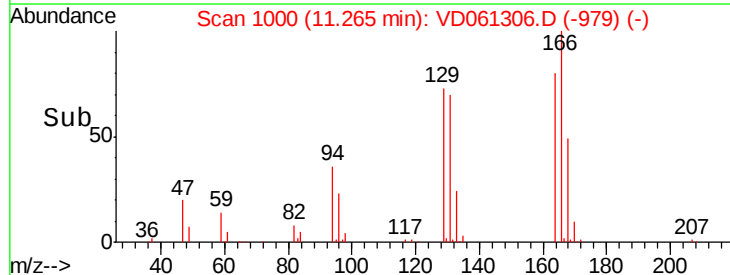
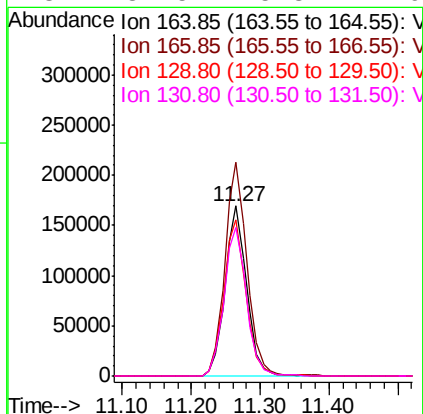
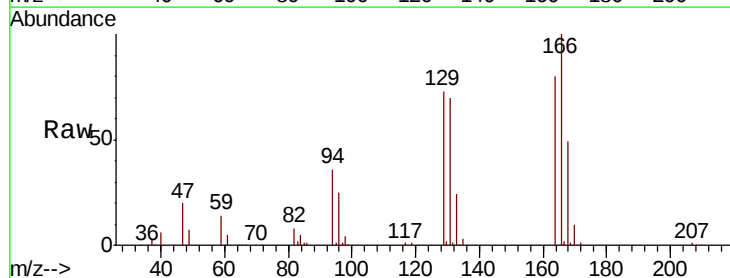
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

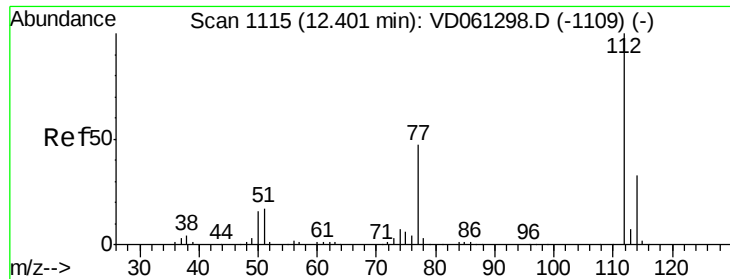
Tot Ion:117 Resp: 898960
Ion Ratio Lower Upper
117 100
82 47.7 35.7 53.5
119 32.6 25.9 38.9



#64
Tetrachloroethene
Concen: 59.016 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:164 Resp: 365466
Ion Ratio Lower Upper
164 100
166 125.7 101.6 152.4
129 92.1 75.9 113.9
131 87.5 75.3 112.9

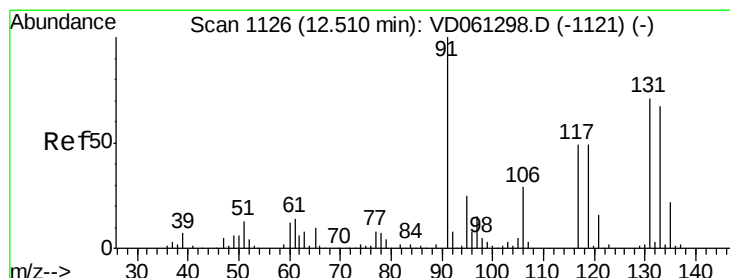
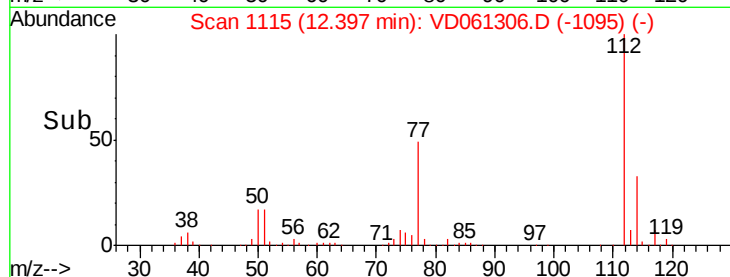
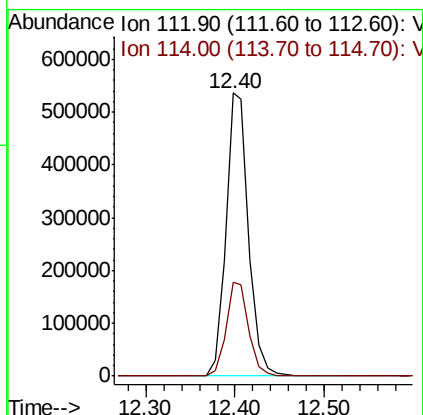
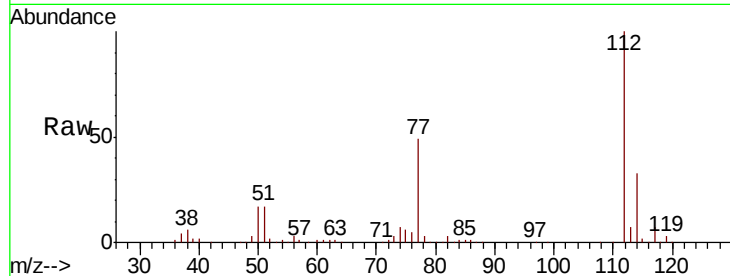




#65
Chlorobenzene
Concen: 57.767 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

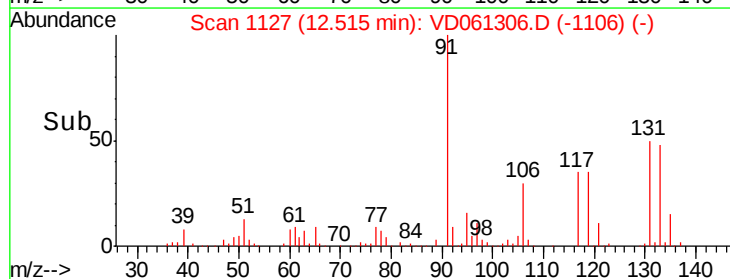
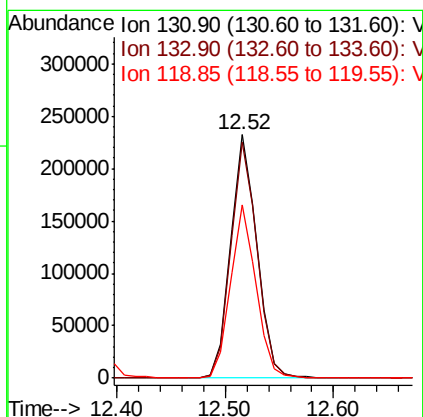
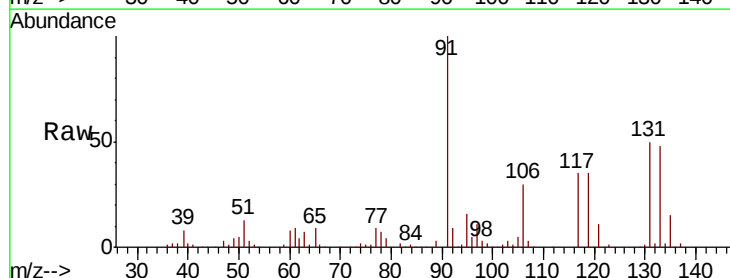
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

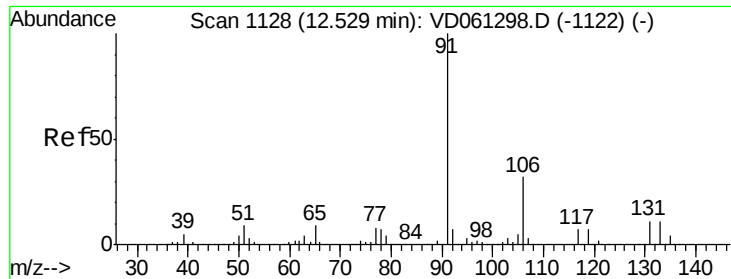
Tot Ion:112 Resp: 956517
Ion Ratio Lower Upper
112 100
114 33.0 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 60.972 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:131 Resp: 391420
Ion Ratio Lower Upper
131 100
133 96.8 47.0 141.2
119 71.3 34.8 104.5

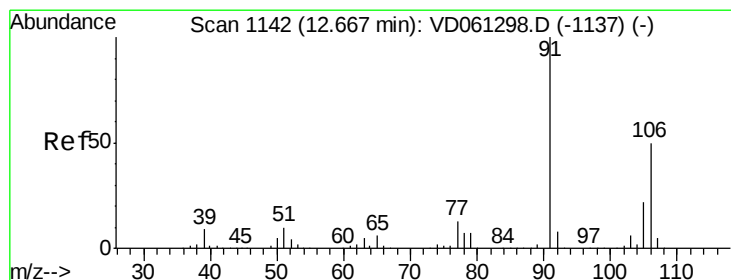
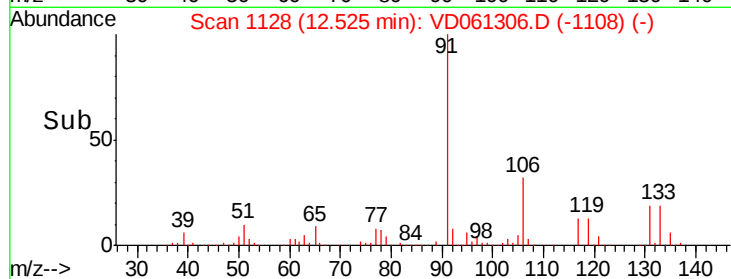
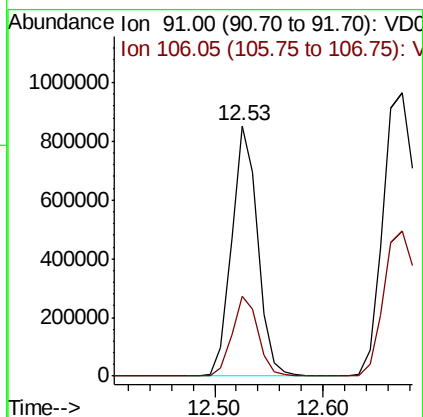
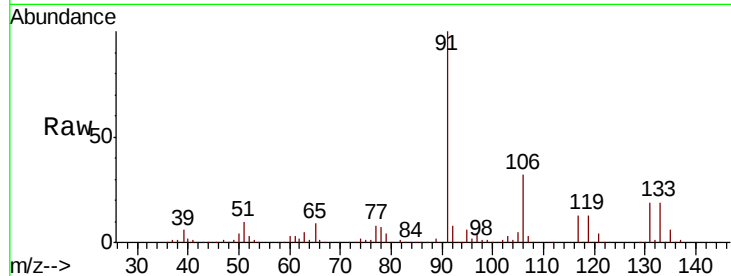




#67
Ethyl Benzene
Concen: 56.077 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

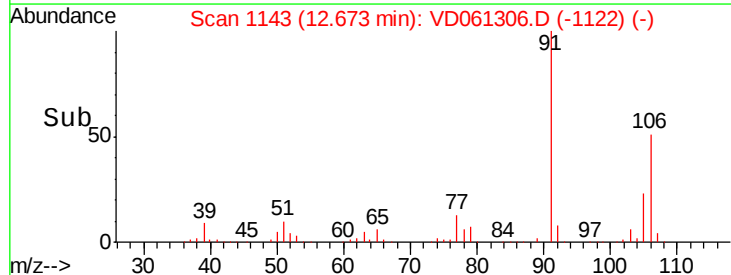
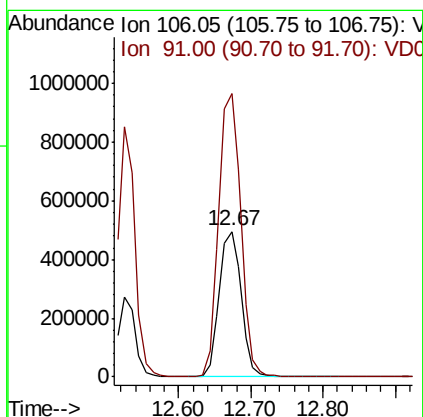
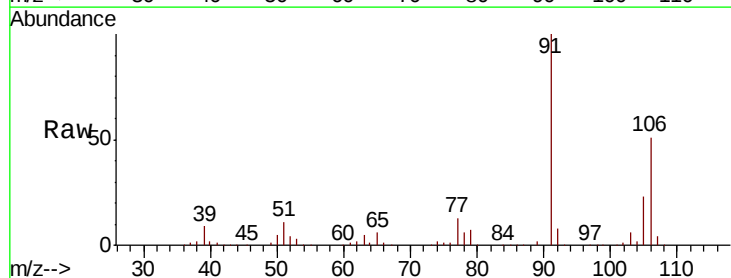
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

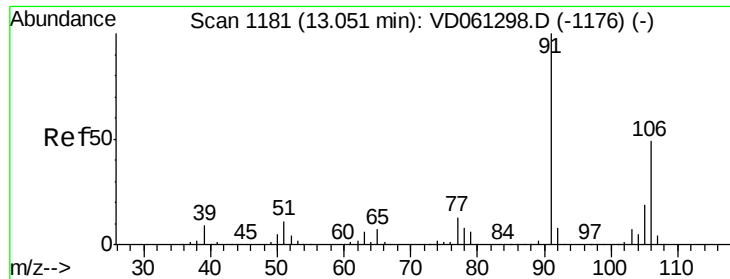
Tot Ion: 91 Resp: 1421018
Ion Ratio Lower Upper
91 100
106 31.8 25.8 38.8



#68
m/p-Xylenes
Concen: 105.111 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:106 Resp: 1039728
Ion Ratio Lower Upper
106 100
91 195.0 159.2 238.8

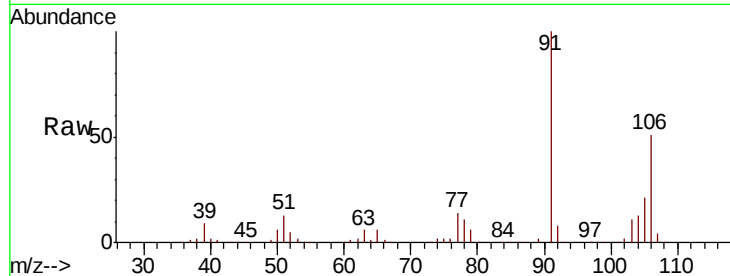




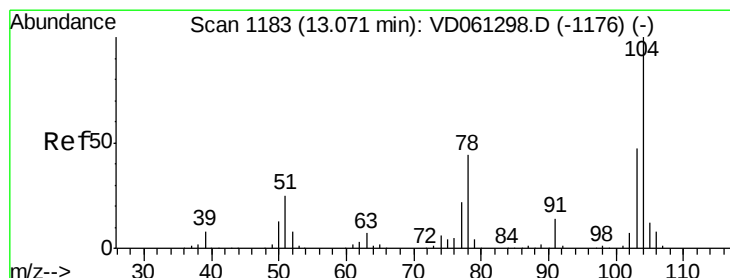
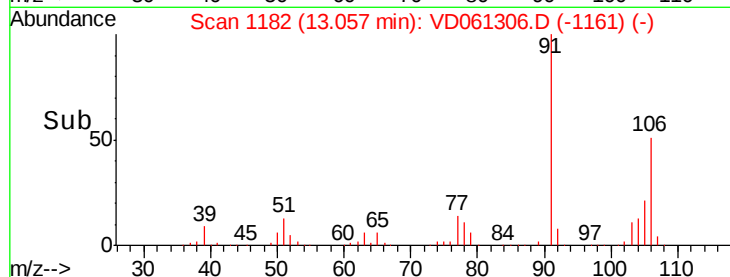
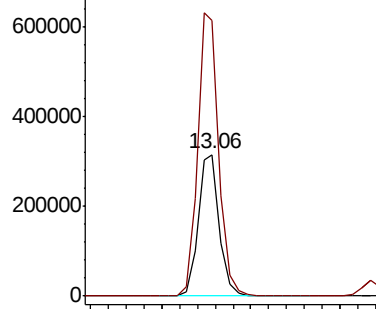
#69
o-Xylene
Concen: 57.081 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion:106 Resp: 523665
Ion Ratio Lower Upper
106 100
91 194.8 102.5 307.5

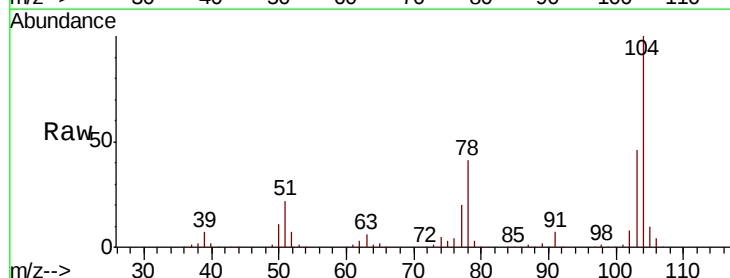


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

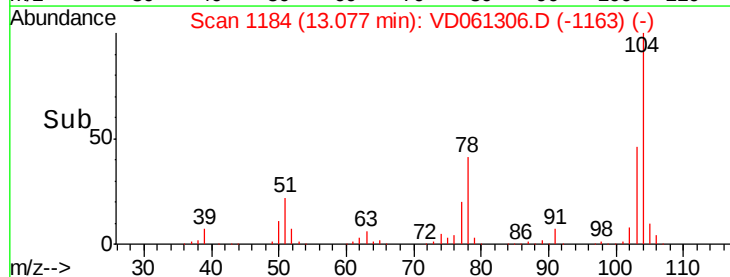
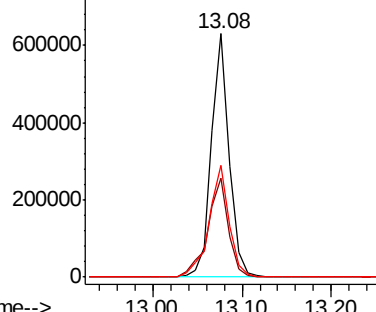


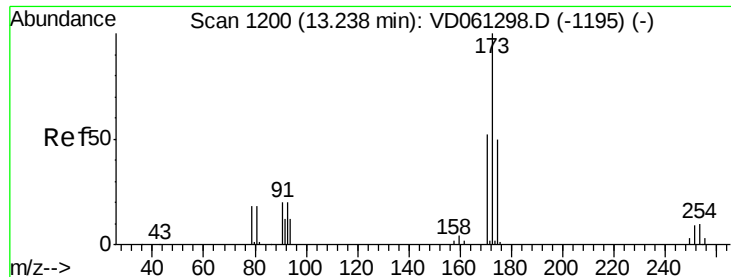
#70
Styrene
Concen: 56.283 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:104 Resp: 876307
Ion Ratio Lower Upper
104 100
78 40.5 35.1 52.7
103 45.9 37.5 56.3



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

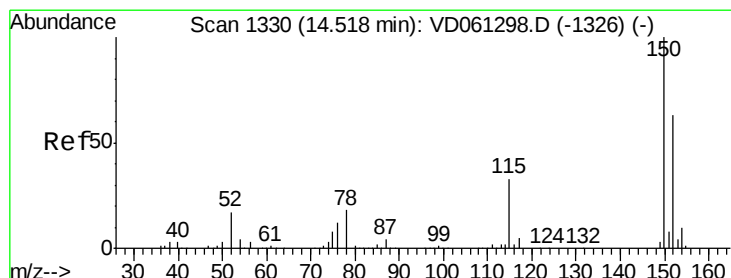
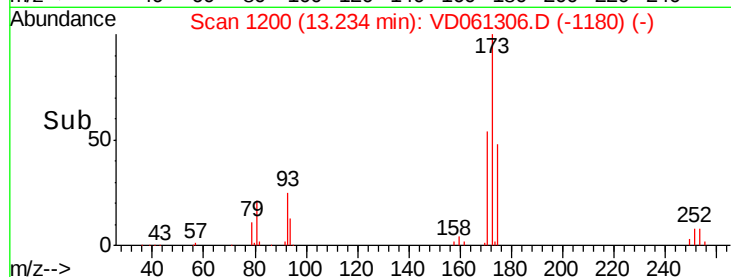
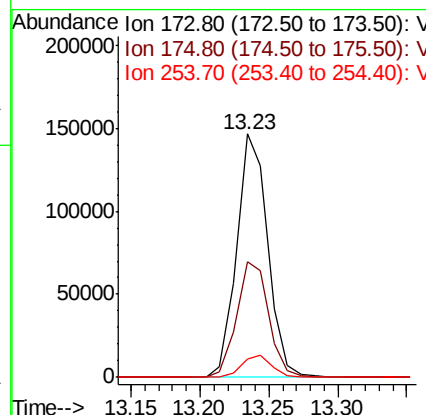
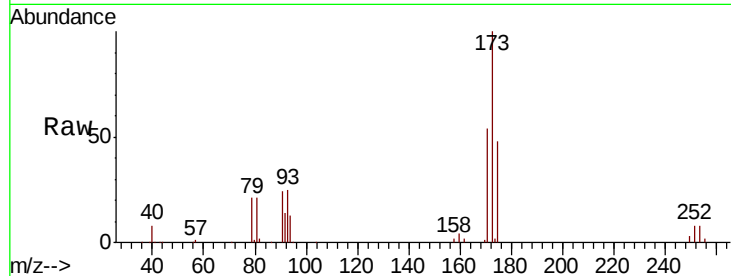




#71
Bromoform
Concen: 58.289 ug/l
RT: 13.23 min Scan# 1200
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

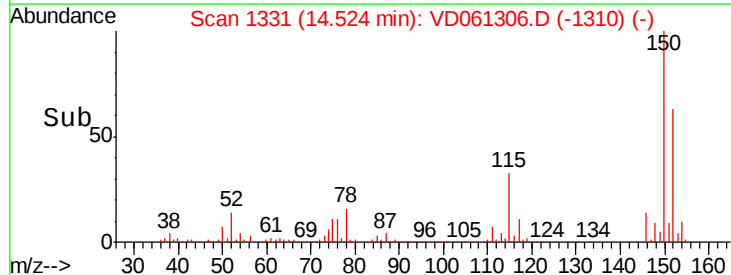
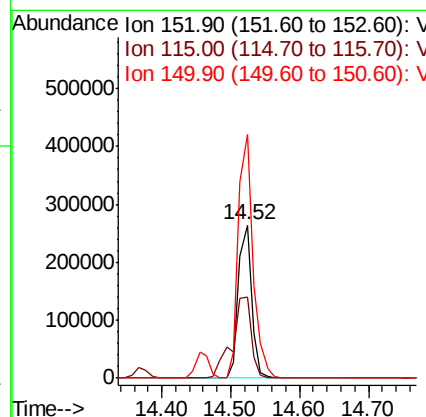
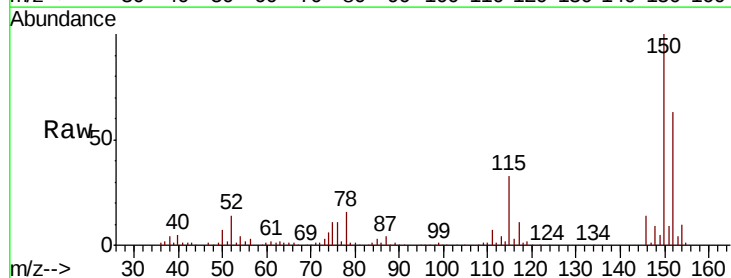
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

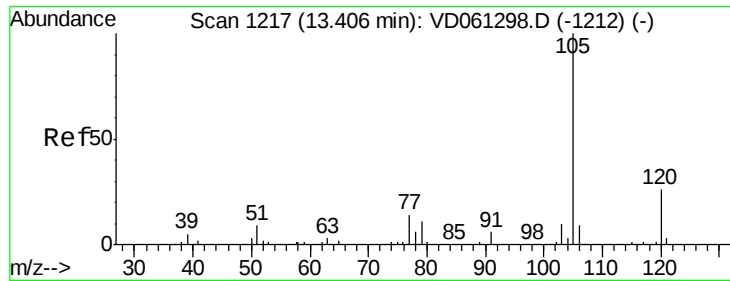
Tot Ion:173 Resp: 228983
Ion Ratio Lower Upper
173 100
175 47.7 24.9 74.7
254 7.8 7.8 11.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:152 Resp: 357628
Ion Ratio Lower Upper
152 100
115 52.7 29.2 87.6
150 158.8 0.0 319.6





#73

Isopropylbenzene

Concen: 54.263 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

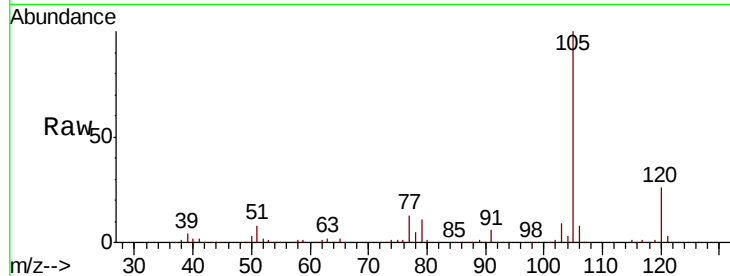
WP022SB441-190319-(23-25)MSD

Tot Ion:105 Resp: 1262207

Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

800000

600000

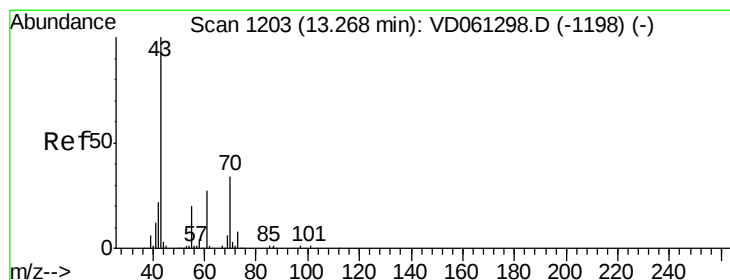
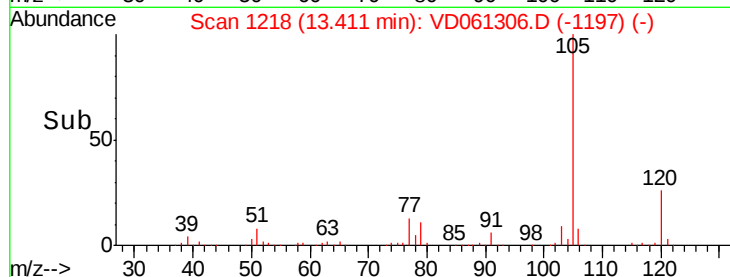
400000

200000

0

13.30 13.40 13.50

Time-->



#74

N-ethyl acetate

Concen: 70.159 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Tgt Ion: 43 Resp: 426967

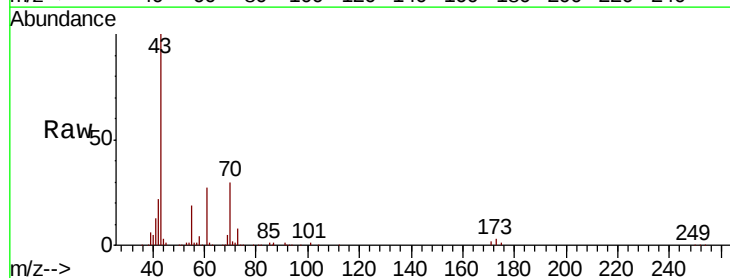
Ion Ratio Lower Upper

43 100

70 30.3 27.5 41.3

55 18.5 15.7 23.5

61 26.8 21.8 32.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

400000

300000

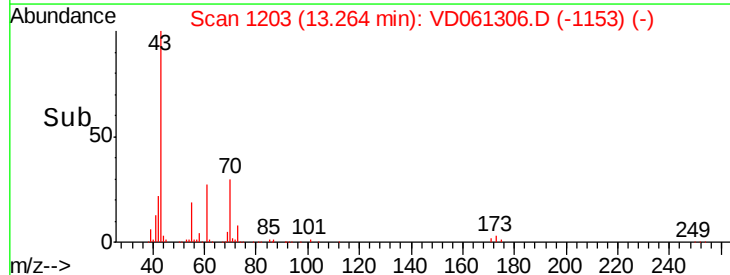
200000

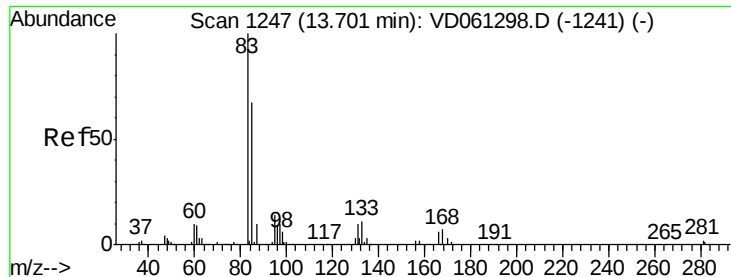
100000

0

13.10 13.20 13.30 13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 65.193 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

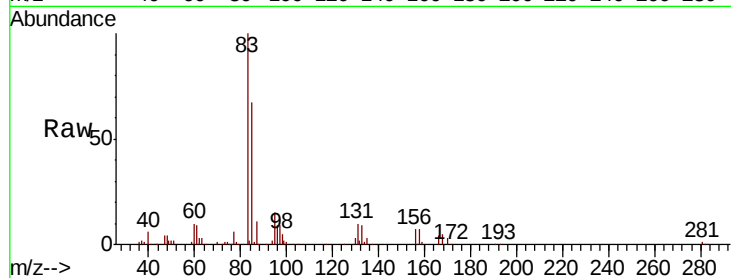
Tot Ion: 83 Resp: 294073

Ion Ratio Lower Upper

83 100

131 9.9 5.0 15.0

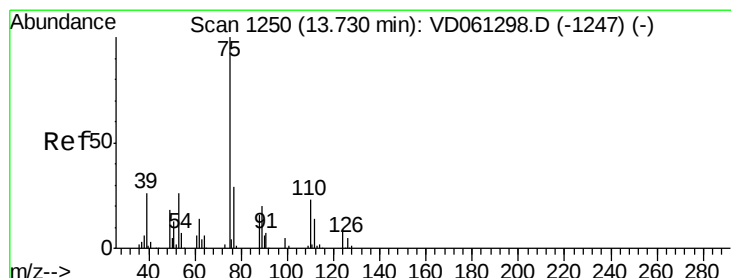
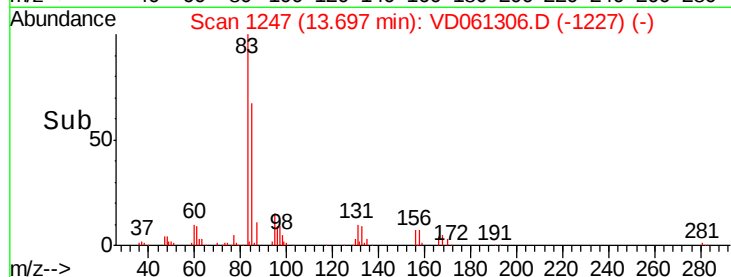
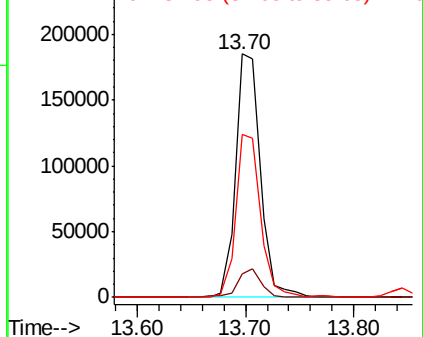
85 66.7 33.4 100.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 67.546 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD061306.D

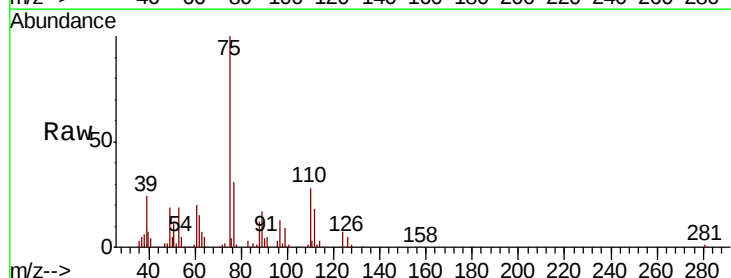
Acq: 25 Mar 2019 17:11

Tgt Ion: 75 Resp: 300414

Ion Ratio Lower Upper

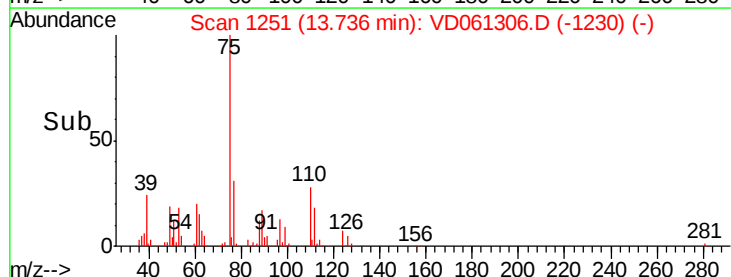
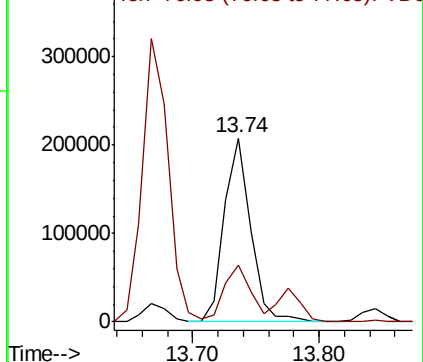
75 100

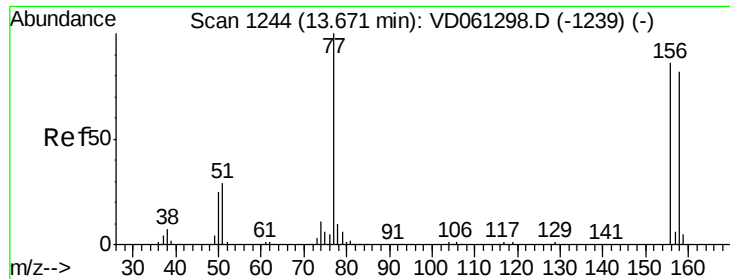
77 31.1 15.8 47.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 57.113 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

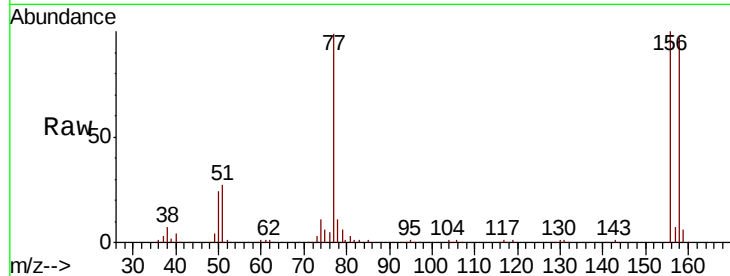
Tot Ion:156 Resp: 371089

Ion Ratio Lower Upper

156 100

77 99.4 58.4 175.1

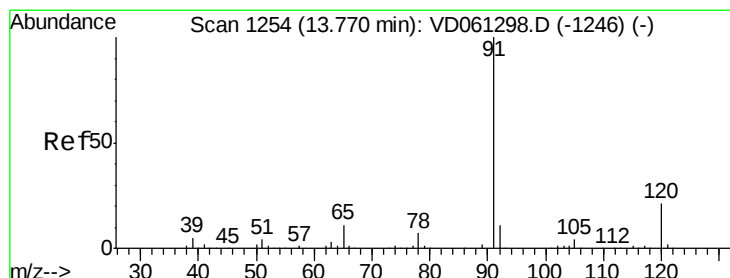
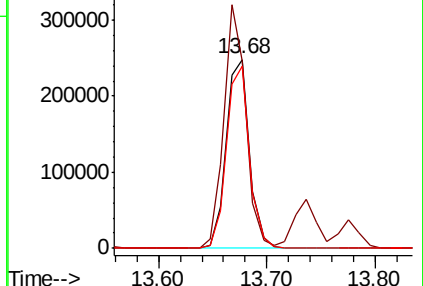
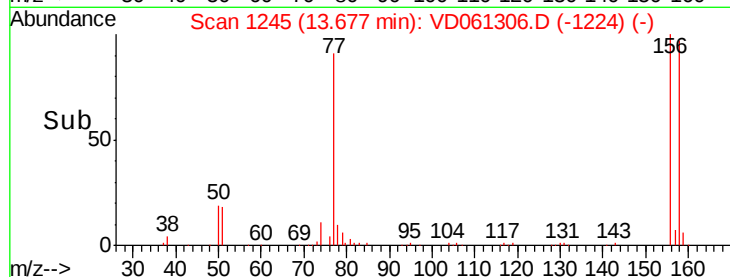
158 96.8 48.1 144.3



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: 52.718 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061306.D

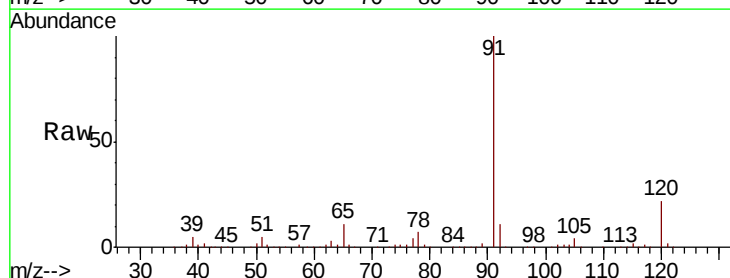
Acq: 25 Mar 2019 17:11

Tgt Ion: 91 Resp: 1383499

Ion Ratio Lower Upper

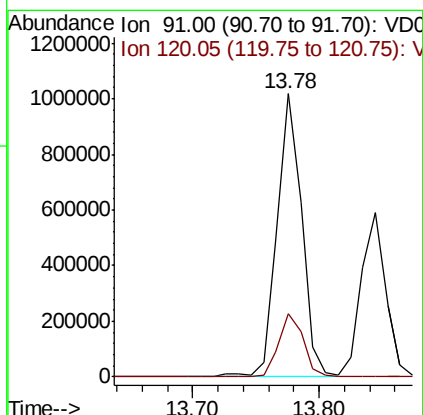
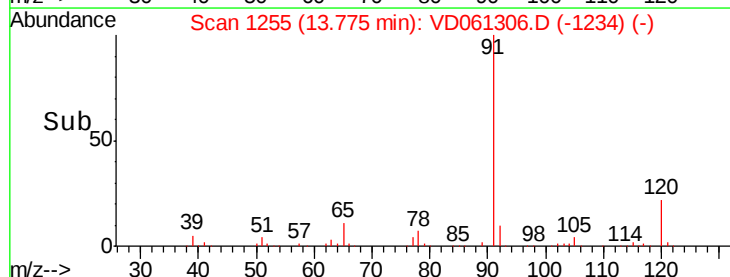
91 100

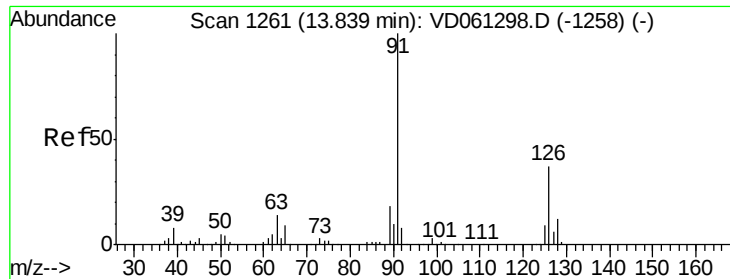
120 22.5 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

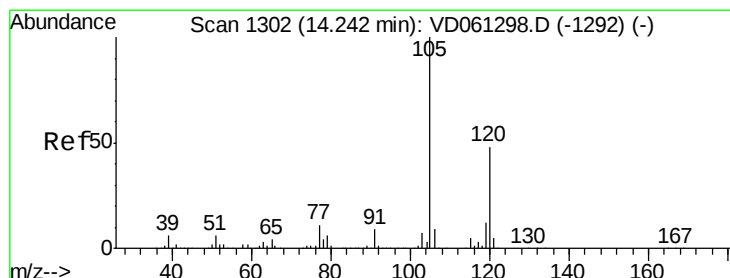
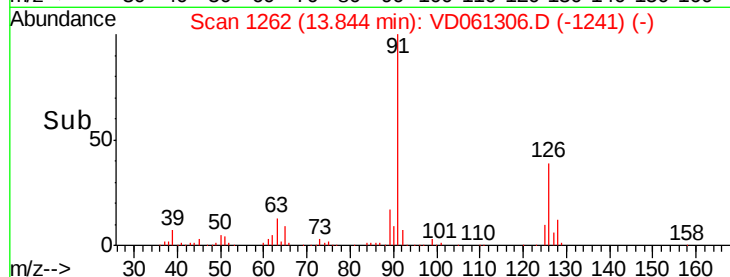
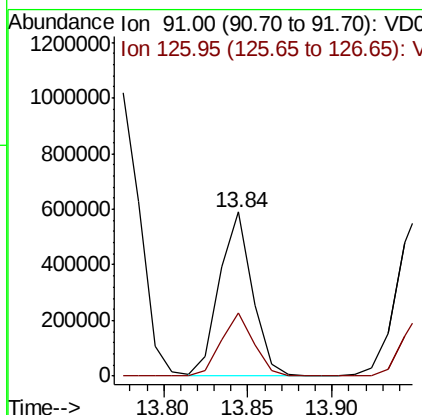
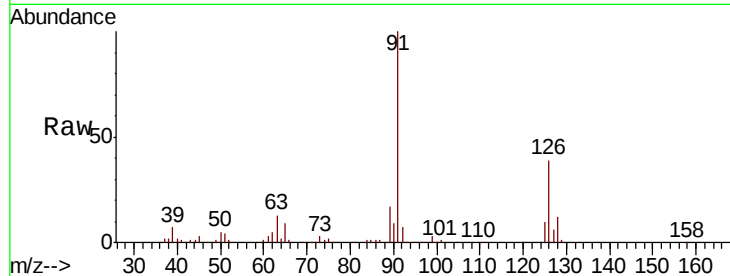




#79
2-Chlorotoluene
Concen: 52.623 ug/l
RT: 13.84 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

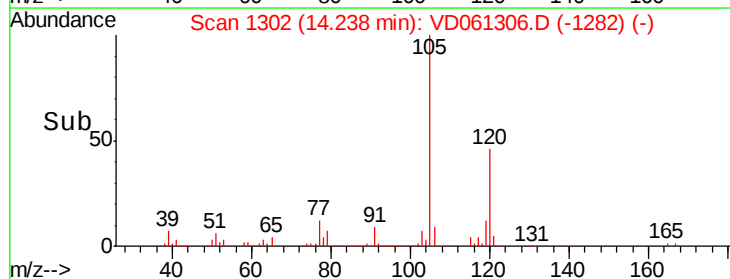
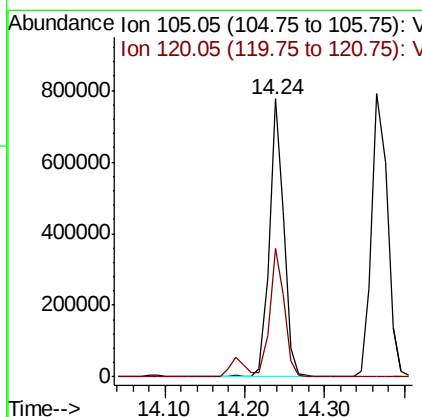
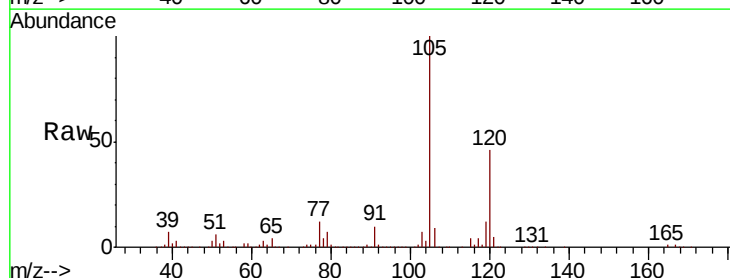
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

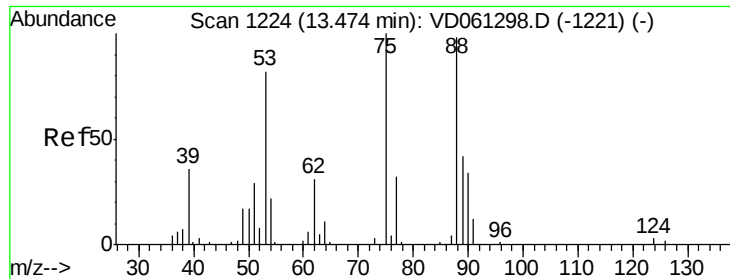
Tot Ion: 91 Resp: 804067
Ion Ratio Lower Upper
91 100
126 38.5 18.4 55.4



#80
1,3,5-Trimethylbenzene
Concen: 52.993 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 105 Resp: 972435
Ion Ratio Lower Upper
105 100
120 46.2 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 74.381 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

WP022SB441-190319-(23-25)MSD

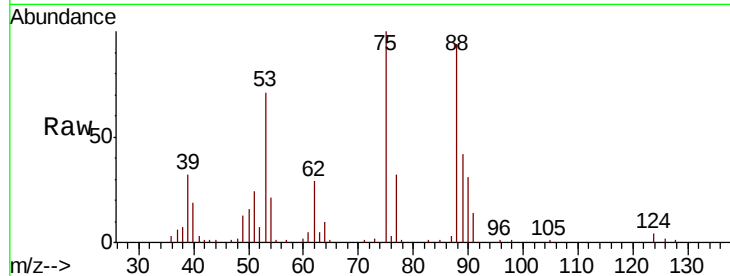
Tot Ion: 75 Resp: 104401

Ion Ratio Lower Upper

75 100

53 70.8 65.3 97.9

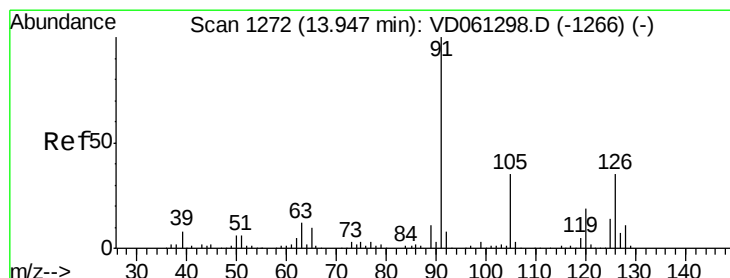
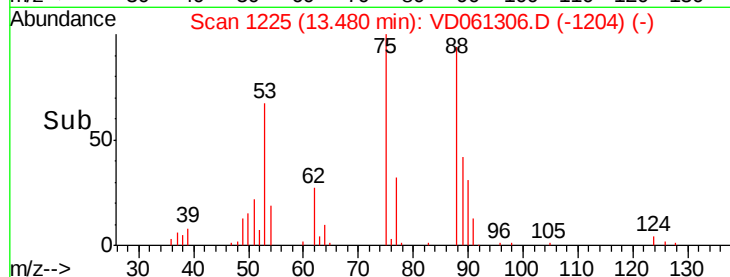
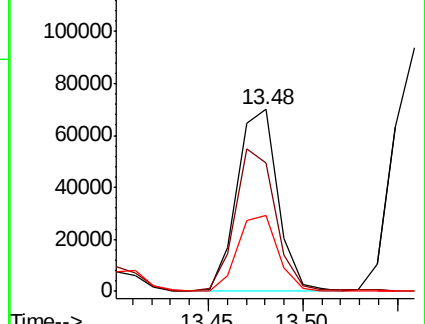
89 41.5 33.8 50.6



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: 54.239 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD061306.D

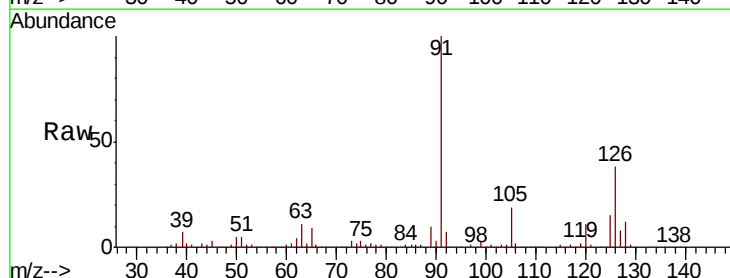
Acq: 25 Mar 2019 17:11

Tgt Ion: 91 Resp: 906022

Ion Ratio Lower Upper

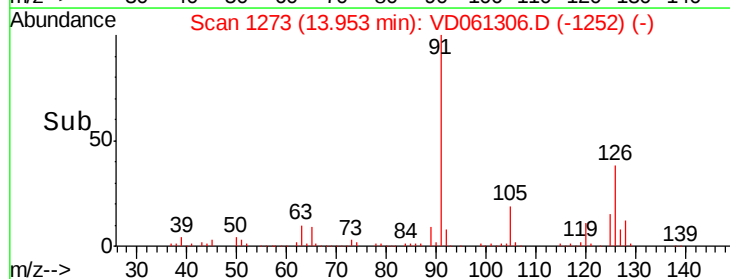
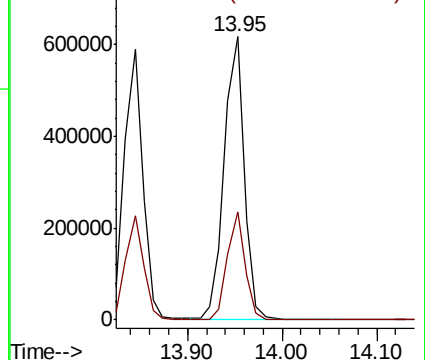
91 100

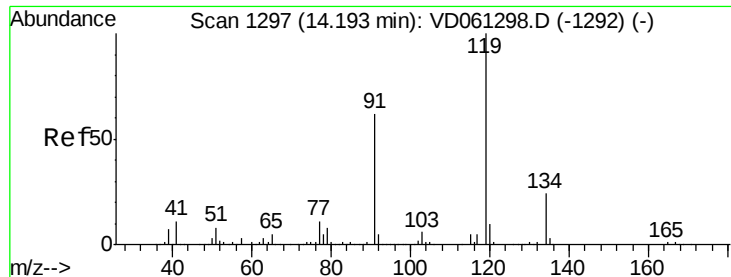
126 38.3 17.7 53.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

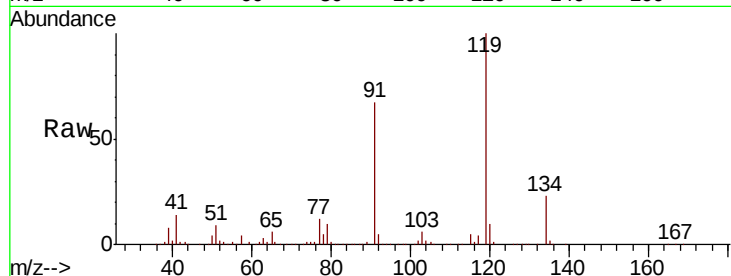




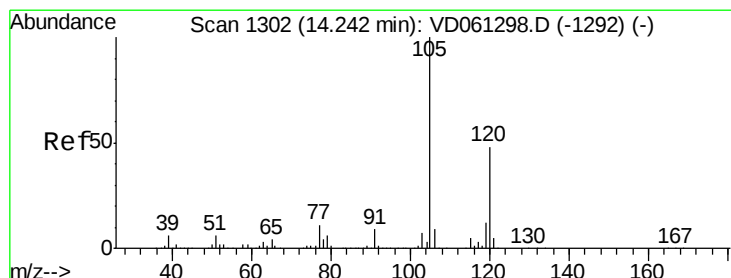
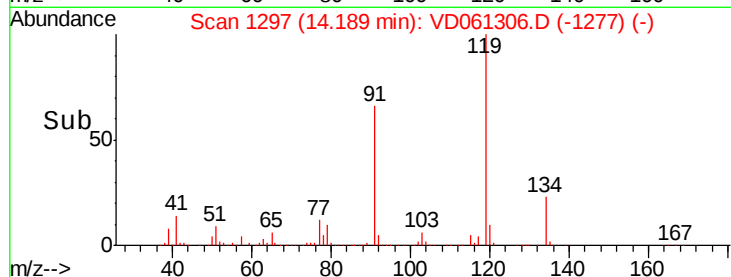
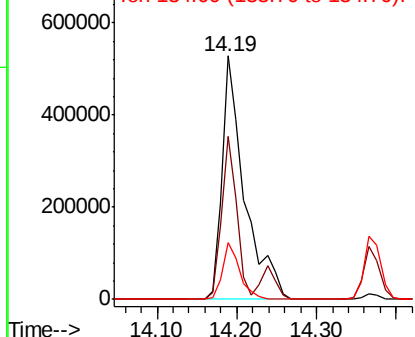
#83
tert-Butylbenzene
Concen: 50.049 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion:119 Resp: 1048606
Ion Ratio Lower Upper
119 100
91 66.8 31.1 93.5
134 23.2 11.9 35.7

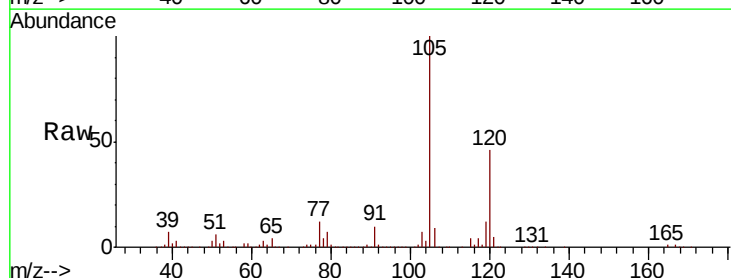


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

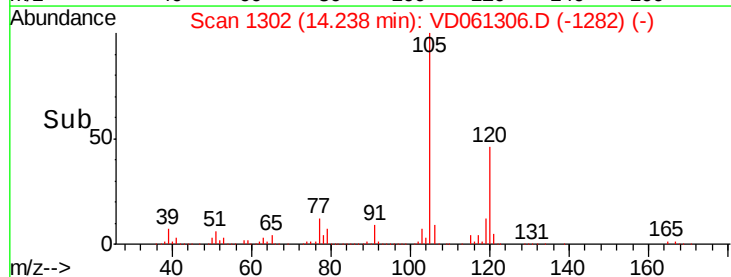
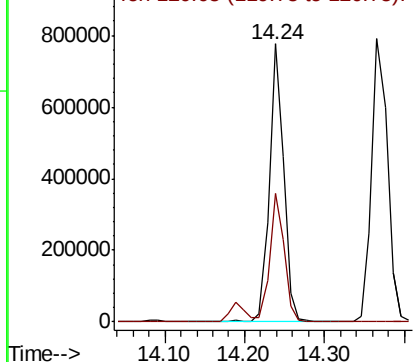


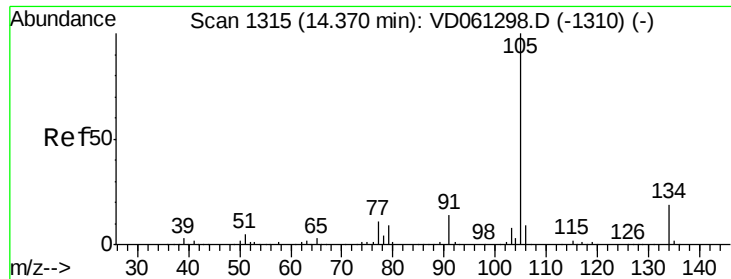
#84
1,2,4-Trimethylbenzene
Concen: 52.993 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:105 Resp: 972435
Ion Ratio Lower Upper
105 100
120 46.2 23.8 71.4



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





#85

sec-Butylbenzene

Concen: 45.769 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

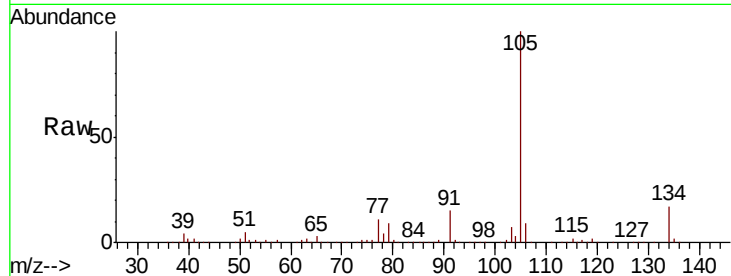
WP022SB441-190319-(23-25)MSD

Tot Ion:105 Resp: 1067949

Ion Ratio Lower Upper

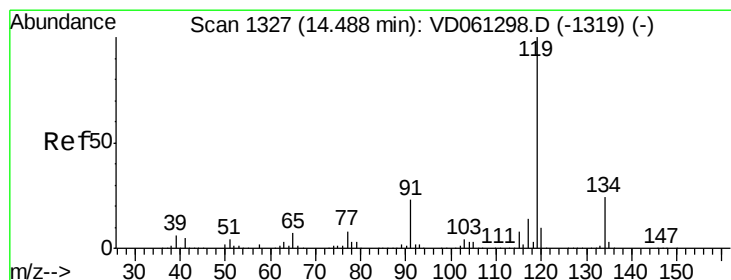
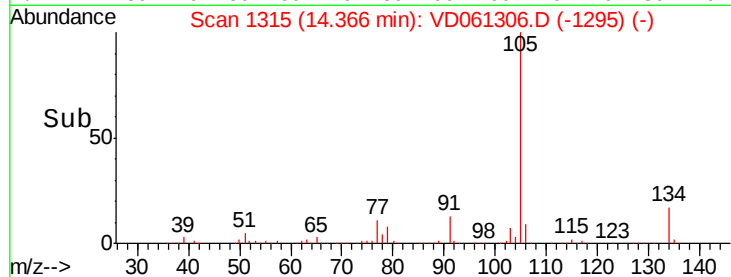
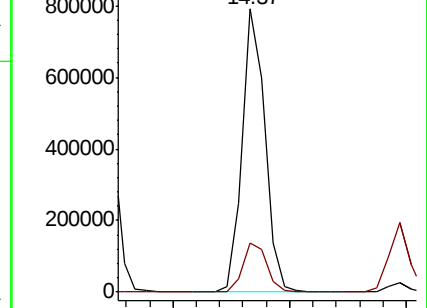
105 100

134 17.4 9.5 28.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 45.283 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD061306.D

Acq: 25 Mar 2019 17:11

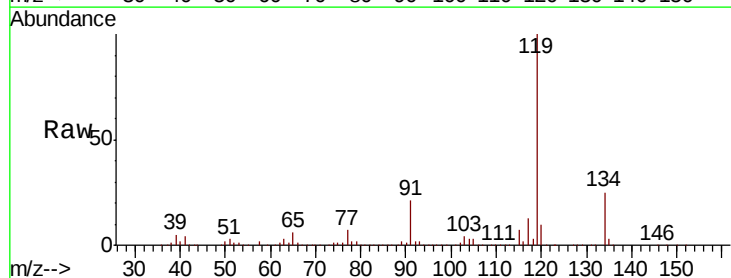
Tgt Ion:119 Resp: 942665

Ion Ratio Lower Upper

119 100

134 25.3 12.1 36.3

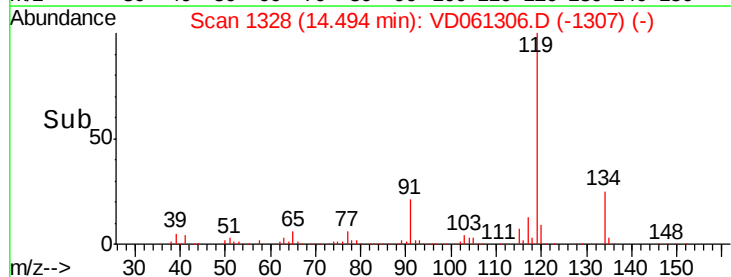
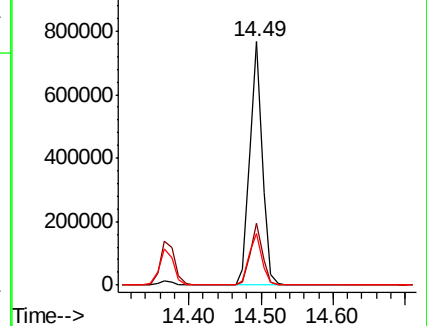
91 21.1 11.4 34.2

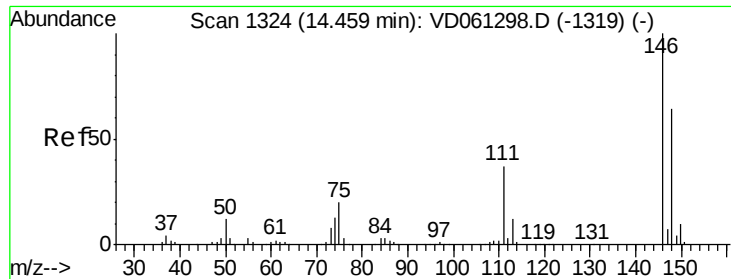


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

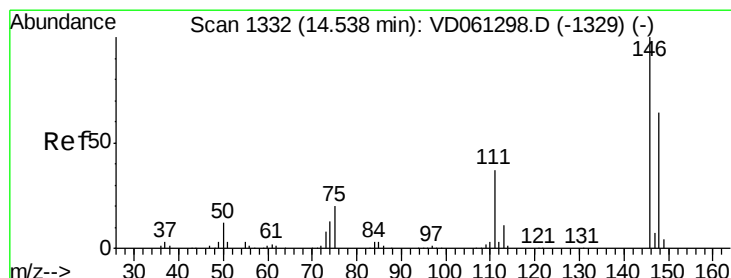
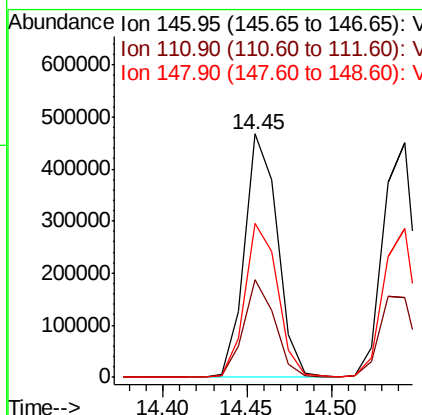
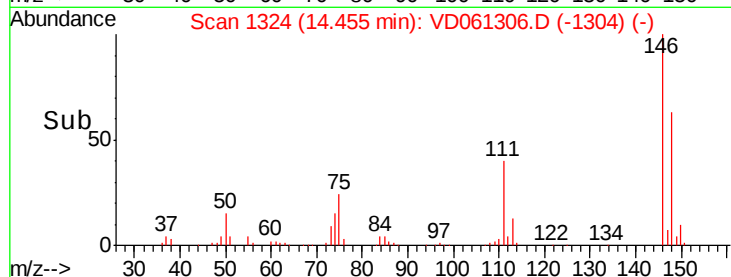
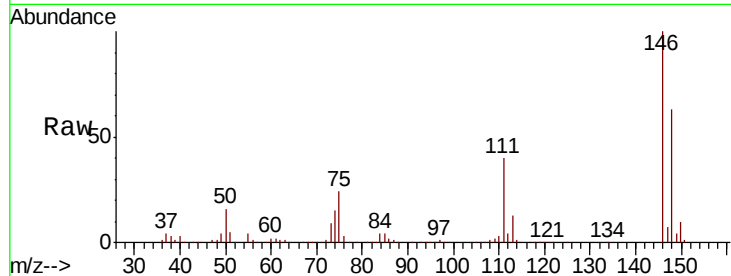




#87
 1,3-Dichlorobenzene
 Concen: 54.958 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

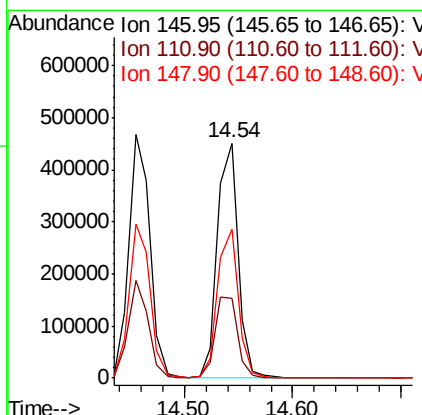
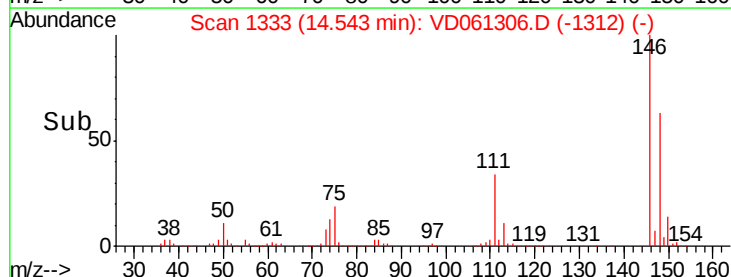
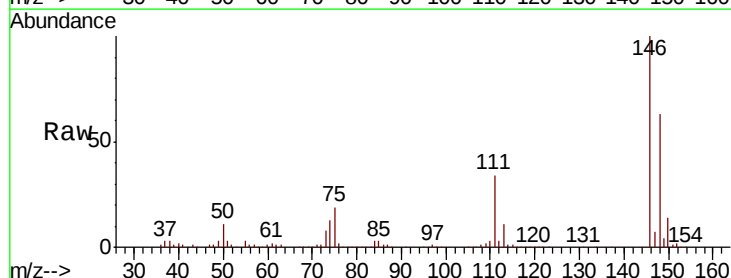
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

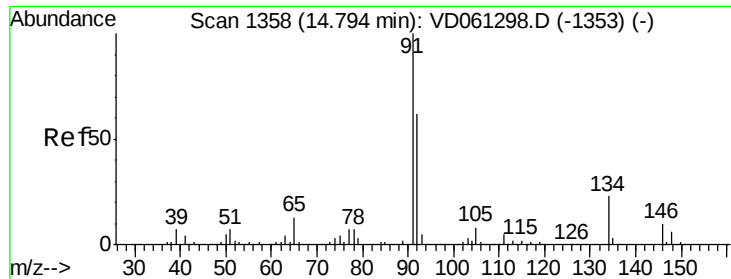
Tot Ion:146 Resp: 632949
 Ion Ratio Lower Upper
 146 100
 111 39.9 18.4 55.0
 148 63.2 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 54.082 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion:146 Resp: 603346
 Ion Ratio Lower Upper
 146 100
 111 33.9 18.6 55.6
 148 63.3 31.9 95.5

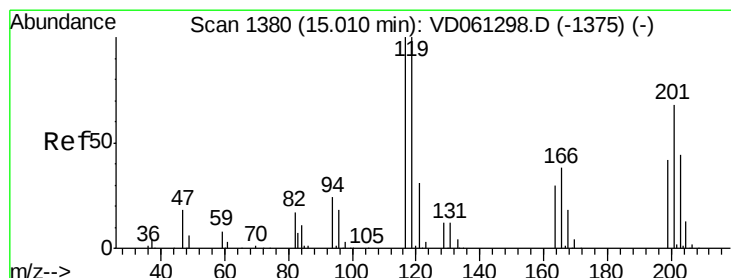
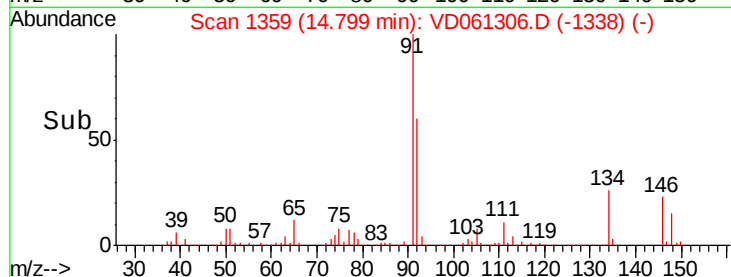
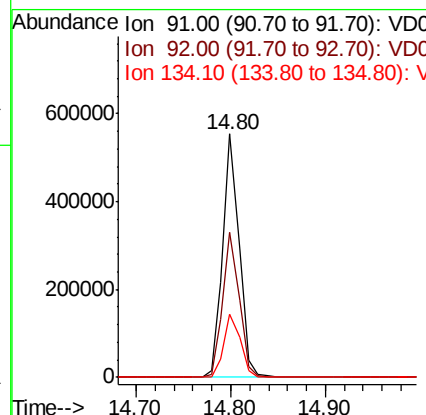
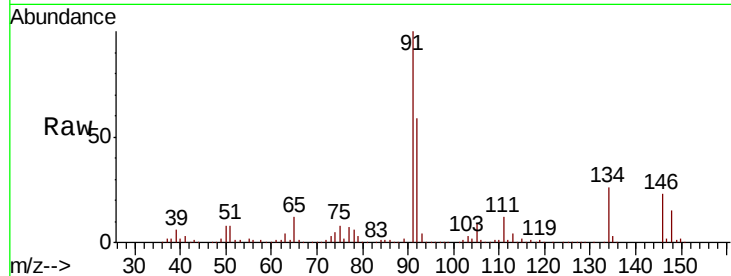




#89
n-Butylbenzene
Concen: 36.055 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

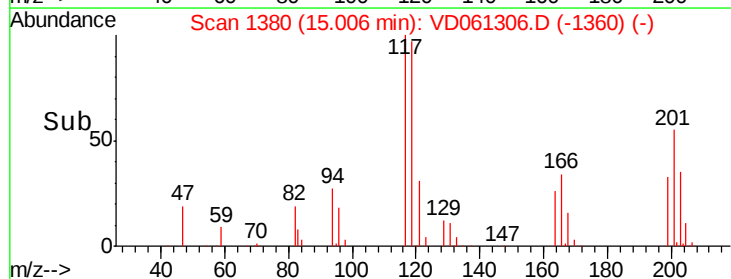
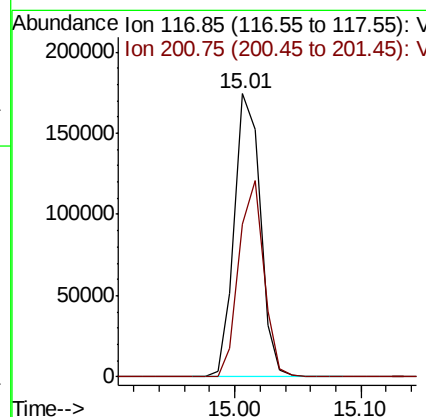
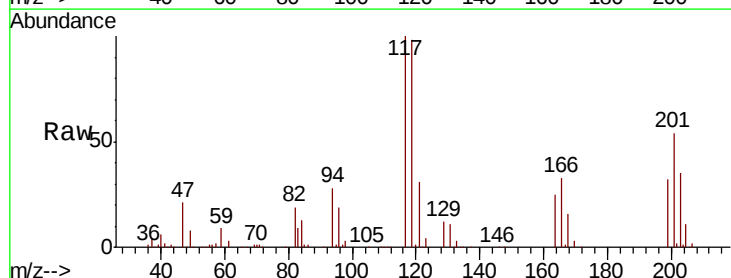
Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

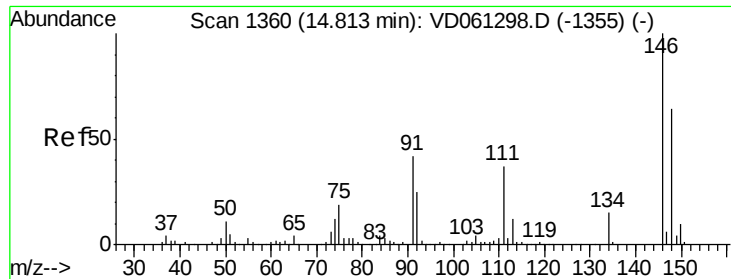
Tot Ion: 91 Resp: 666363
Ion Ratio Lower Upper
91 100
92 59.5 30.9 92.7
134 25.8 11.7 35.0



#90
Hexachloroethane
Concen: 44.453 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion: 117 Resp: 248109
Ion Ratio Lower Upper
117 100
201 54.0 34.0 101.8

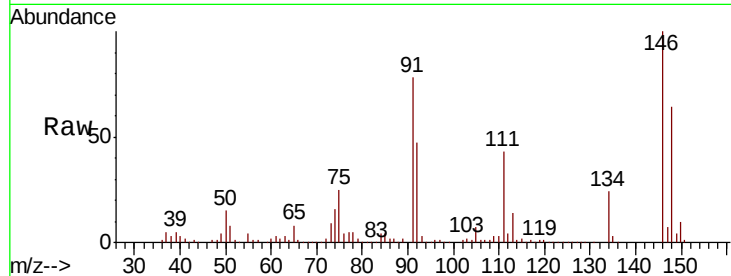




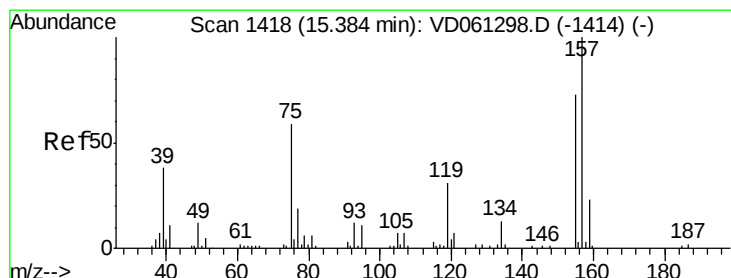
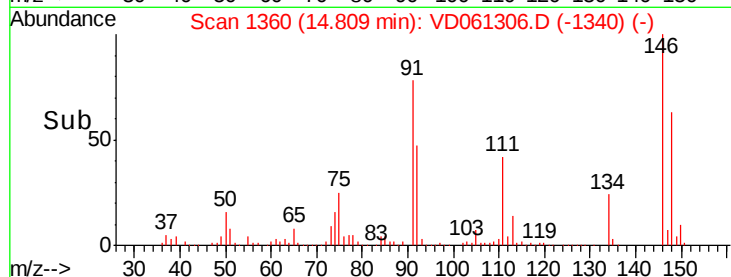
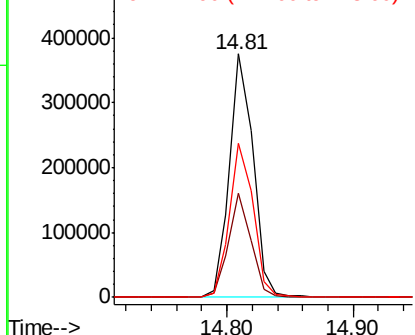
#91
 1,2-Dichlorobenzene
 Concen: 52.763 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

Tot Ion:146 Resp: 484875
 Ion Ratio Lower Upper
 146 100
 111 42.5 18.3 54.8
 148 63.5 31.9 95.7

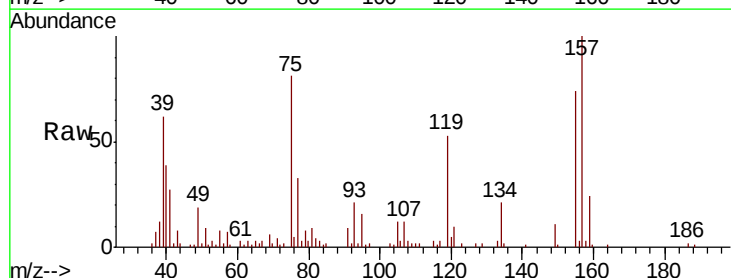


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

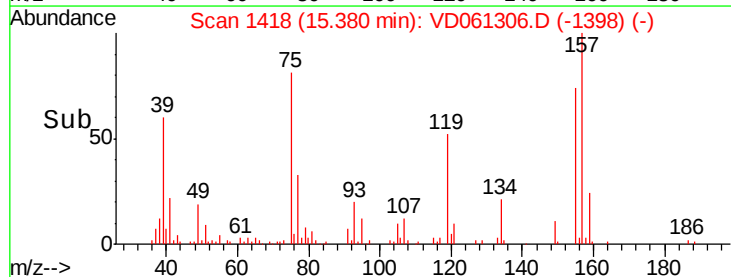
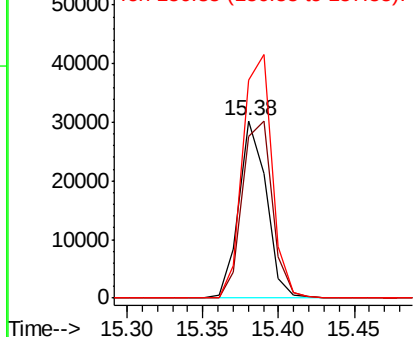


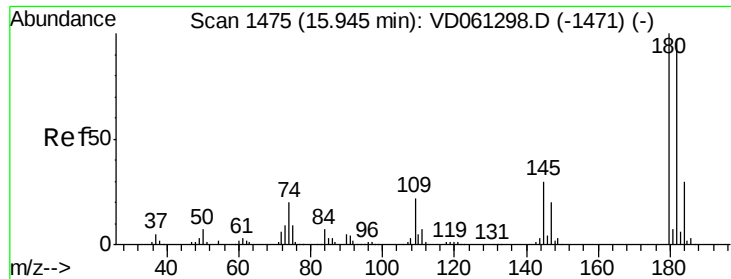
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 67.877 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.00 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion: 75 Resp: 38260
 Ion Ratio Lower Upper
 75 100
 155 91.0 61.9 185.7
 157 122.7 84.4 253.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

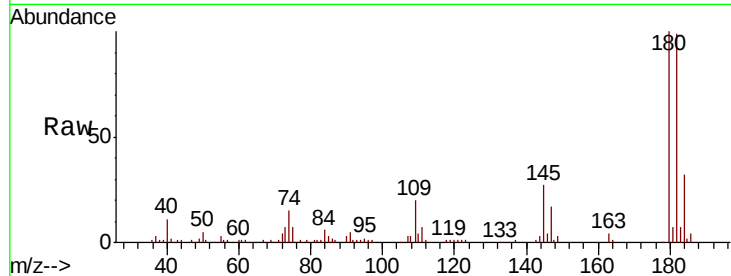




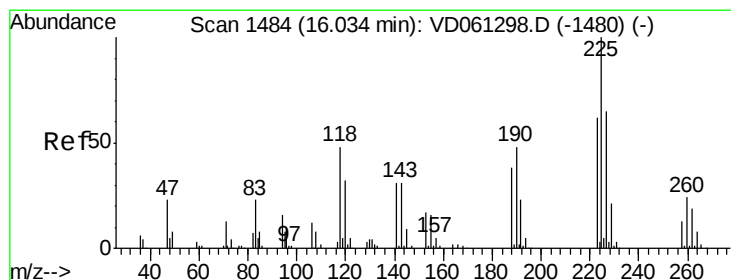
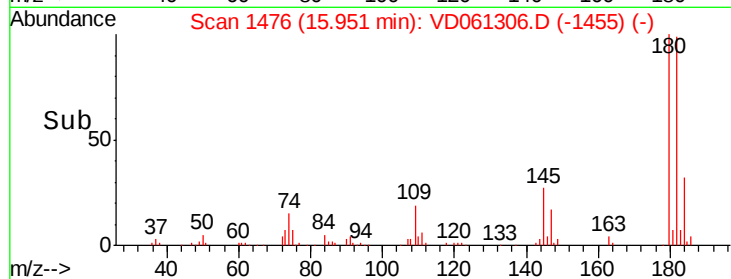
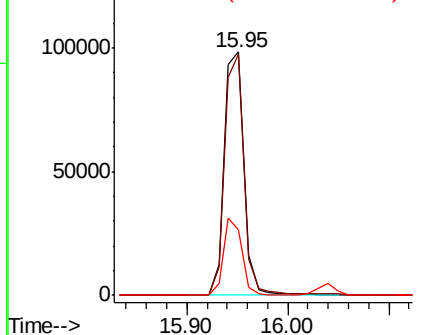
#93
 1,2,4-Trichlorobenzene
 Concen: 31.622 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB441-190319-(23-25)MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.8	48.3	144.9
145	27.1	14.8	44.4

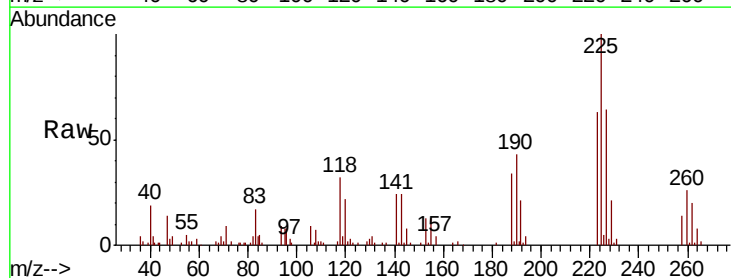


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

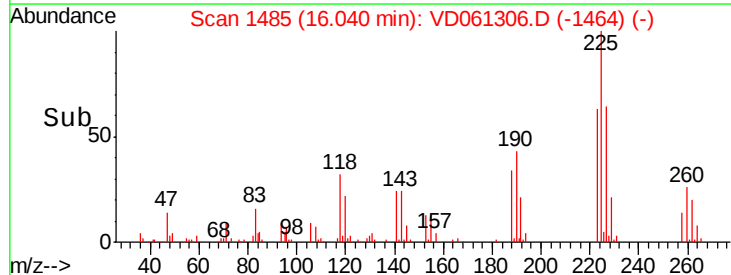
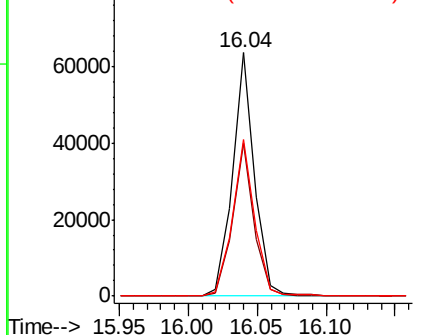


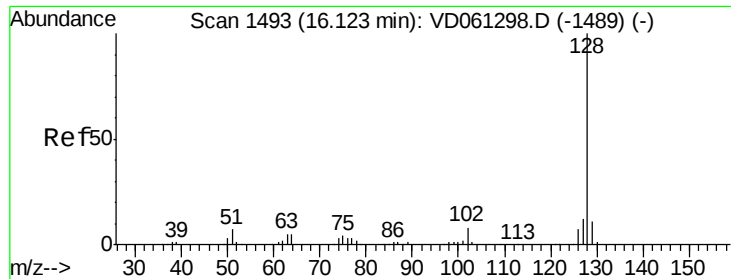
#94
 Hexachlorobutadiene
 Concen: 20.491 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061306.D
 Acq: 25 Mar 2019 17:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	30.9	92.8
227	64.1	32.6	97.7



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

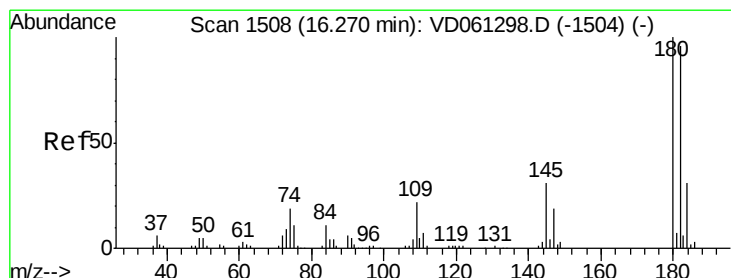
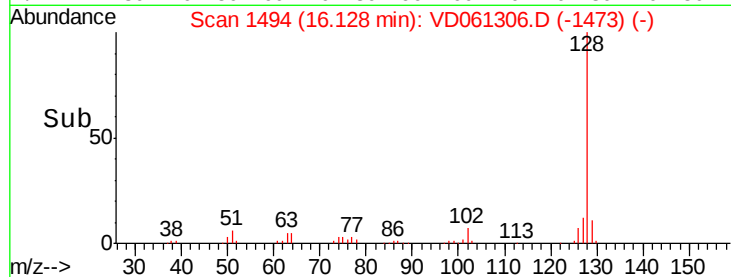
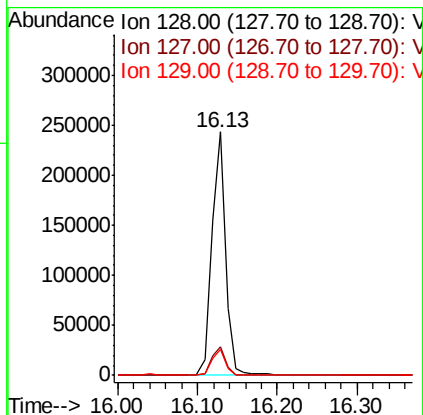
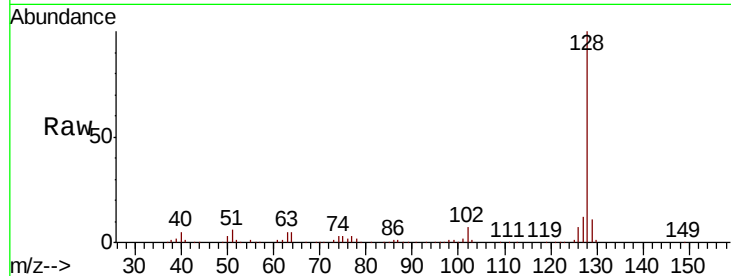




#95
Naphthalene
Concen: 47.790 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
WP022SB441-190319-(23-25)MSD

Tot Ion:128 Resp: 295949
Ion Ratio Lower Upper
128 100
127 12.0 9.8 14.6
129 10.7 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 30.321 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD061306.D
Acq: 25 Mar 2019 17:11

Tgt Ion:180 Resp: 60104
Ion Ratio Lower Upper
180 100
182 94.8 48.0 144.2
145 26.9 15.4 46.4

