

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062254.D
 Acq On : 12 May 2019 13:02
 Operator : FY/SY
 Sample : VD0512SBS01
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

Quant Time: May 13 01:31:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	872222	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	1248953	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	1006047	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	539188	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	393420	48.54	ug/l	0.04
Spiked Amount			Recovery	=	97.08%	
35) Dibromofluoromethane	6.94	113	468796	45.24	ug/l	0.05
Spiked Amount			Recovery	=	90.48%	
50) Toluene-d8	10.43	98	1087040	43.51	ug/l	0.03
Spiked Amount			Recovery	=	87.02%	
62) 4-Bromofluorobenzene	13.56	95	481939	48.03	ug/l	0.02
Spiked Amount			Recovery	=	96.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	177444	21.271	ug/l	97
3) Chloromethane	1.76	50	123289	20.454	ug/l	97
4) Vinyl Chloride	1.85	62	128459	21.685	ug/l	98
5) Bromomethane	2.15	94	34994	25.210	ug/l	94
6) Chloroethane	2.26	64	52787	21.236	ug/l	92
7) Trichlorofluoromethane	2.53	101	285993	24.832	ug/l	98
8) Diethyl Ether	2.88	74	42989	19.354	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	3.15	101	205735	23.614	ug/l	93
10) Methyl Iodide	3.32	142	204692	15.545	ug/l	89
11) Tert butyl alcohol	4.08	59	46819	113.158	ug/l	96
12) 1,1-Dichloroethene	3.13	96	146681	22.055	ug/l	95
13) Acrolein	3.05	56	45726	106.850	ug/l	91
14) Allyl chloride	3.63	41	221907	22.948	ug/l #	86
15) Acrylonitrile	4.22	53	128557	118.211	ug/l #	91
16) Acetone	3.23	43	233017	137.081	ug/l #	88
17) Carbon Disulfide	3.38	76	373208	19.507	ug/l	99
18) Methyl Acetate	3.66	43	70399	22.992	ug/l	96
19) Methyl tert-butyl Ether	4.26	73	329292	23.100	ug/l	92
20) Methylene Chloride	3.83	84	152261	21.453	ug/l	97
21) trans-1,2-Dichloroethene	4.23	96	159599	21.566	ug/l	92
22) Diisopropyl ether	5.14	45	465339	22.614	ug/l	96
23) Vinyl Acetate	5.07	43	1367967	126.001	ug/l	97
24) 1,1-Dichloroethane	4.99	63	295486	23.804	ug/l	99
25) 2-Butanone	6.09	43	238470	128.616	ug/l	95
26) 2,2-Dichloropropane	6.04	77	297345	24.047	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	184125	22.228	ug/l	98
28) Bromochloromethane	6.45	49	117055	23.968	ug/l	89
29) Tetrahydrofuran	6.47	42	99275	116.206	ug/l	94
30) Chloroform	6.68	83	351769	23.513	ug/l	100
31) Cyclohexane	6.97	56	161560	18.997	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	331118	23.416	ug/l	99
36) 1,1-Dichloropropene	7.16	75	230705	22.529	ug/l	98
37) Ethyl Acetate	6.19	43	95938	22.092	ug/l #	86
38) Carbon Tetrachloride	7.12	117	328792	23.198	ug/l	97

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Quant Time: May 13 01:31:30 2019
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	199035	20.286	ug/l	93
40) Benzene	7.46	78	482422	20.863	ug/l	98
41) Methacrylonitrile	6.46	41	122648	23.110	ug/l #	91
42) 1,2-Dichloroethane	7.59	62	228296	23.302	ug/l	95
43) Isopropyl Acetate	9.25	43	145493	23.623	ug/l	91
44) Trichloroethene	8.56	130	190951	21.671	ug/l	92
45) 1,2-Dichloropropane	8.95	63	121937	21.319	ug/l	93
46) Dibromomethane	9.07	93	105049	22.586	ug/l	96
47) Bromodichloromethane	9.39	83	268375	23.590	ug/l	98
48) Methyl methacrylate	9.14	41	90358	23.818	ug/l	88
49) 1,4-Dioxane	9.11	88	17546	428.662	ug/l #	86
51) 4-Methyl-2-Pentanone	10.31	43	475808	120.183	ug/l	95
52) Toluene	10.52	92	322877	21.460	ug/l	96
53) t-1,3-Dichloropropene	10.93	75	220833	22.459	ug/l	94
54) cis-1,3-Dichloropropene	10.05	75	240047	22.378	ug/l	92
55) 1,1,2-Trichloroethane	11.20	97	124178	23.327	ug/l	98
56) Ethyl methacrylate	11.06	69	117024	21.155	ug/l #	87
57) 1,3-Dichloropropane	11.42	76	179746	22.350	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	331454	109.694	ug/l	99
59) 2-Hexanone	11.54	43	348246	119.345	ug/l	94
60) Dibromochloromethane	11.70	129	201458	21.898	ug/l	93
61) 1,2-Dibromoethane	11.81	107	139732	21.590	ug/l	99
64) Tetrachloroethene	11.27	164	172290	21.901	ug/l	94
65) Chlorobenzene	12.40	112	412872	22.034	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	192339	23.585	ug/l	94
67) Ethyl Benzene	12.53	91	736410	23.475	ug/l	95
68) m/p-Xylenes	12.68	106	518522	45.432	ug/l	90
69) o-Xylene	13.05	106	252199	23.768	ug/l	84
70) Styrene	13.08	104	419982	23.365	ug/l	98
71) Bromoform	13.24	173	123305	21.733	ug/l #	96
73) Isopropylbenzene	13.41	105	773224	23.924	ug/l	96
74) N-amyl acetate	13.27	43	192620	22.731	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	137458	22.465	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	153436	23.945	ug/l	99
77) Bromobenzene	13.67	156	202941	22.430	ug/l	86
78) n-propylbenzene	13.78	91	934949	24.250	ug/l	96
79) 2-Chlorotoluene	13.85	91	511866	23.181	ug/l	97
80) 1,3,5-Trimethylbenzene	13.94	105	613650	22.547	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.48	75	39595	21.888	ug/l #	75
82) 4-Chlorotoluene	13.95	91	572270	22.024	ug/l	82
83) tert-Butylbenzene	14.19	119	696531	22.769	ug/l	93
84) 1,2,4-Trimethylbenzene	14.24	105	640266	23.443	ug/l	92
85) sec-Butylbenzene	14.37	105	752949	22.449	ug/l	97
86) p-Isopropyltoluene	14.50	119	679261	22.667	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	369968	22.384	ug/l	100
88) 1,4-Dichlorobenzene	14.54	146	340742	20.982	ug/l	99
89) n-Butylbenzene	14.80	91	594621	22.107	ug/l	95
90) Hexachloroethane	15.01	117	182388	22.381	ug/l	93
91) 1,2-Dichlorobenzene	14.81	146	297639	21.866	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.39	75	21627	21.532	ug/l	82

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ALS Vial : 4 Sample Multiplier: 1

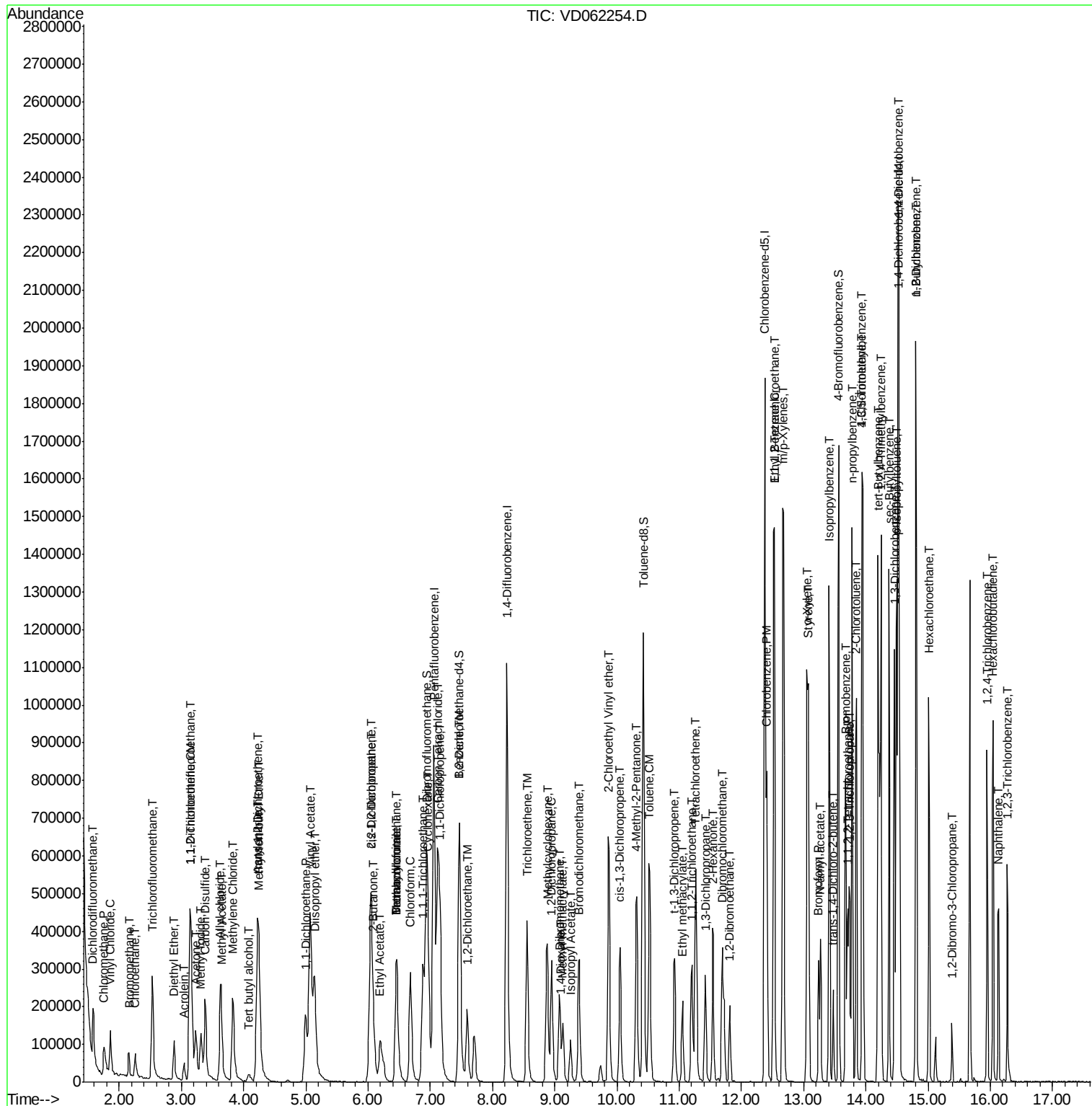
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

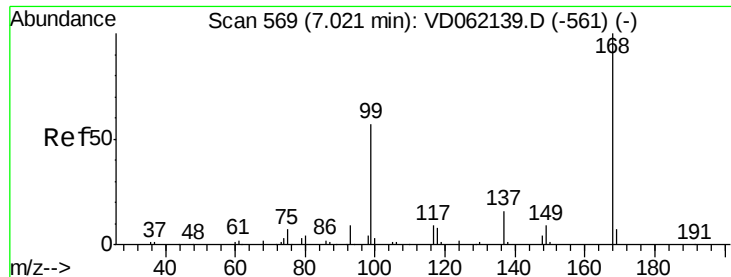
Quant Time: May 13 01:31:30 2019
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	223765	22.585	ug/l	96
94) Hexachlorobutadiene	16.04	225	162152	22.005	ug/l	97
95) Naphthalene	16.13	128	319750	23.117	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	157503	25.284	ug/l	96

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

Quant Time: May 13 01:31:30 2019
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

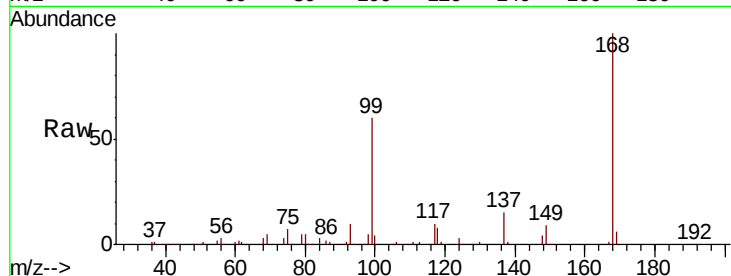
VD0512SBS01

Tot Ion:168 Resp: 872222

Ion Ratio Lower Upper

168 100

99 59.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

300000

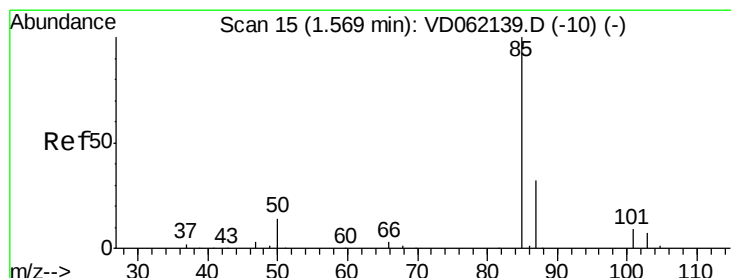
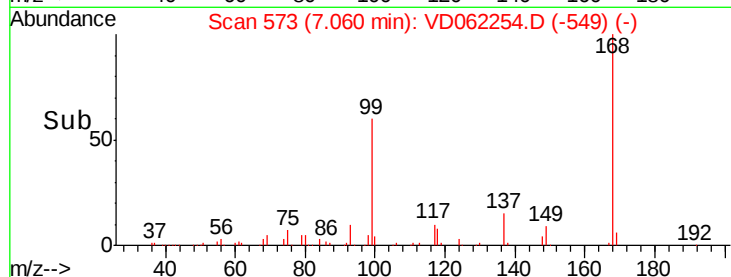
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: 21.271 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062254.D

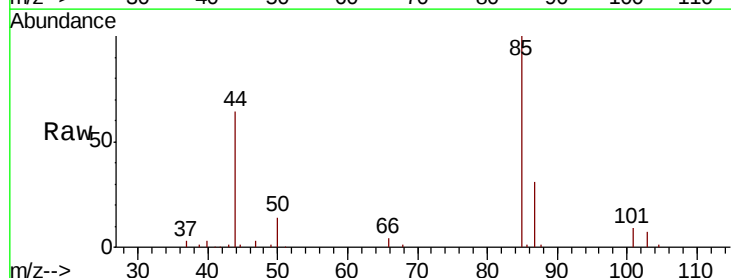
Acq: 12 May 2019 13:02

Tgt Ion: 85 Resp: 177444

Ion Ratio Lower Upper

85 100

87 30.5 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

80000

60000

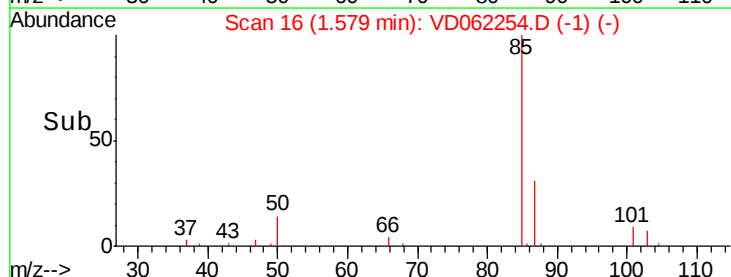
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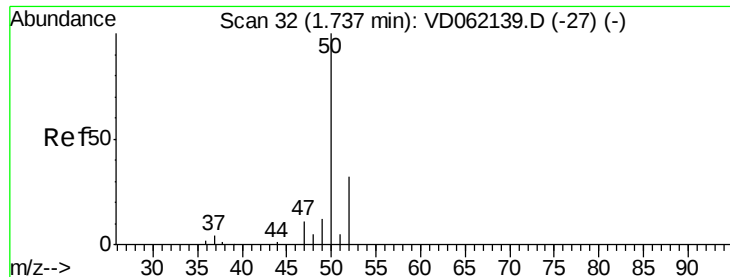
20000

0

Time-->

1.50 1.60 1.70





#3

Chloromethane

Concen: 20.454 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

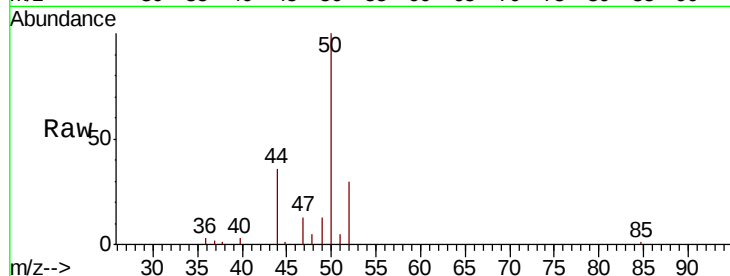
VD0512SBS01

Tot Ion: 50 Resp: 123289

Ion Ratio Lower Upper

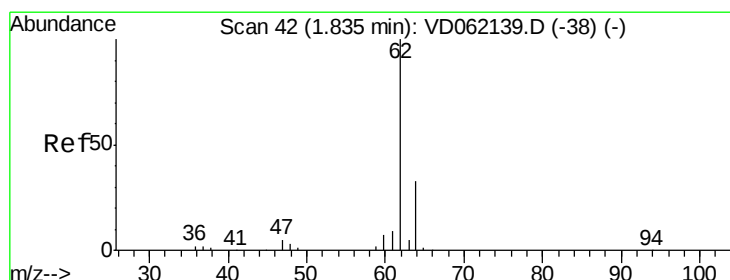
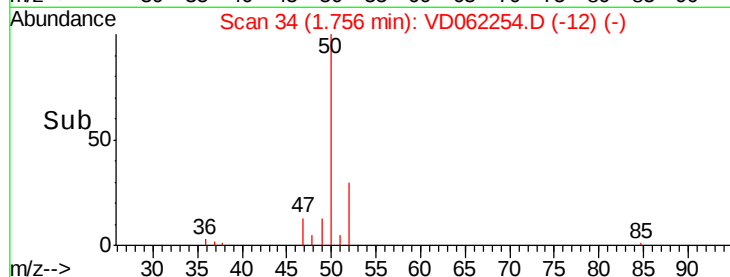
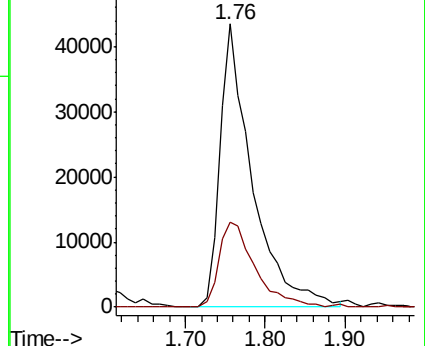
50 100

52 30.0 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.685 ug/l

RT: 1.85 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD062254.D

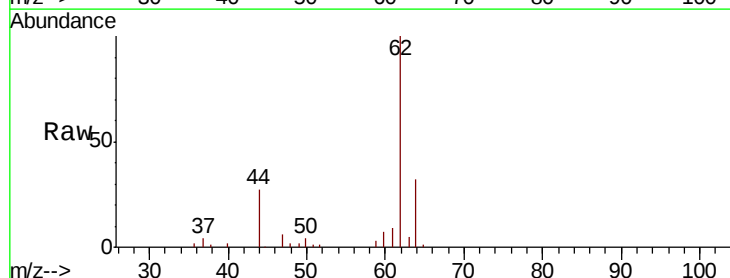
Acq: 12 May 2019 13:02

Tgt Ion: 62 Resp: 128459

Ion Ratio Lower Upper

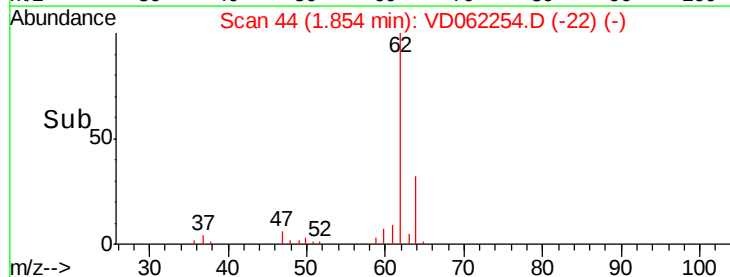
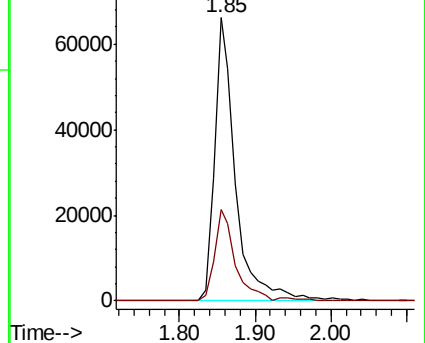
62 100

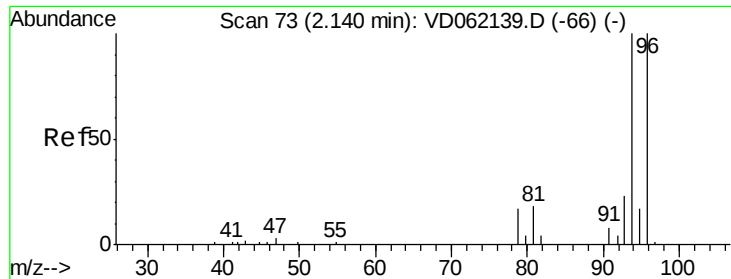
64 32.2 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 25.210 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

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ClientSampleId :

VD0512SBS01

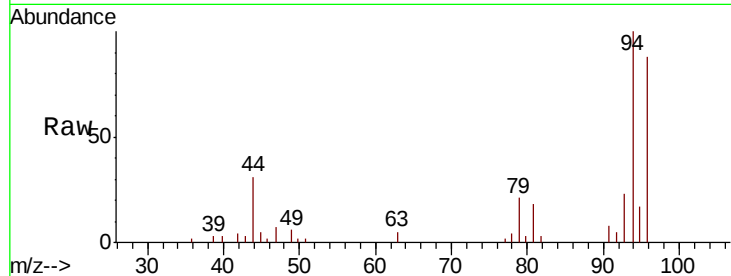
Tot Ion: 94 Resp: 34994

Ion Ratio Lower Upper

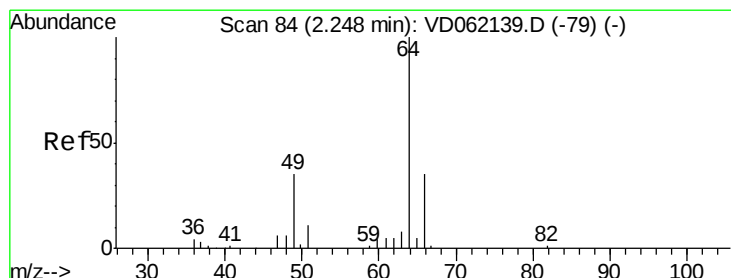
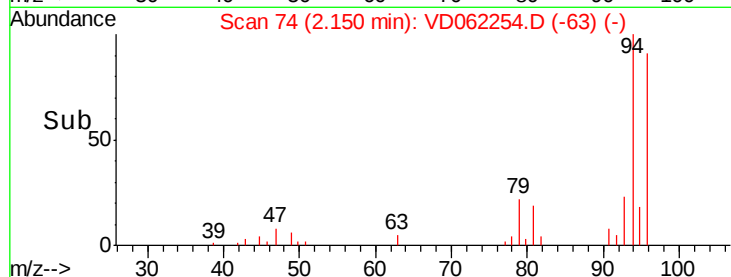
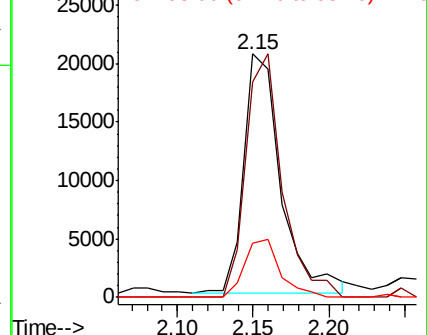
94 100

96 88.4 76.6 115.0

93 22.5 18.5 27.7



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: 21.236 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VD062254.D

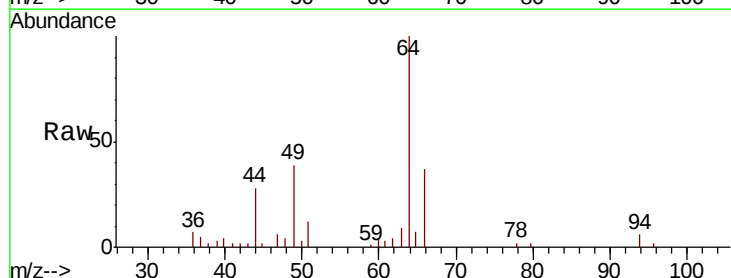
Acq: 12 May 2019 13:02

Tgt Ion: 64 Resp: 52787

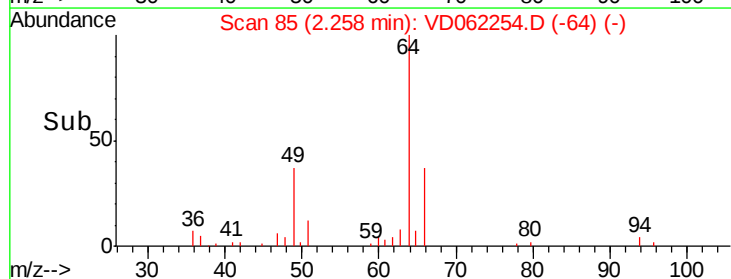
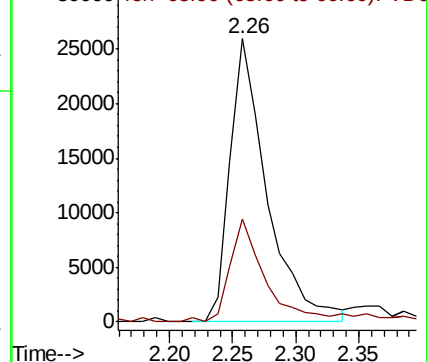
Ion Ratio Lower Upper

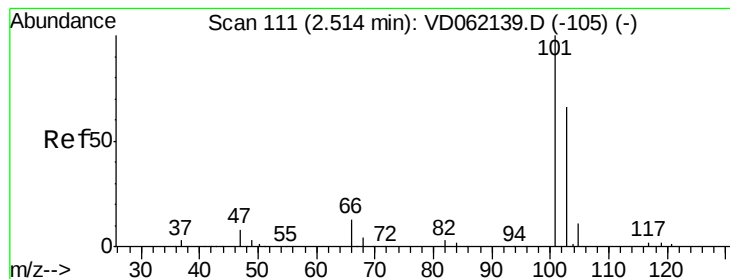
64 100

66 36.5 25.6 38.4



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



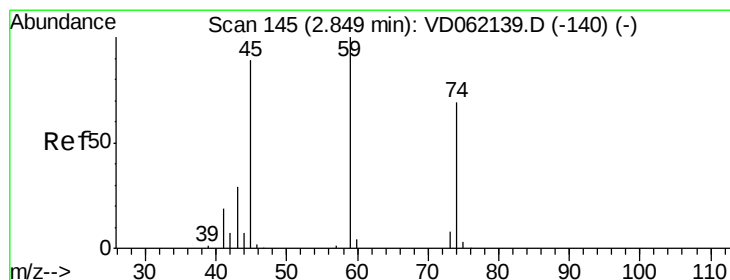
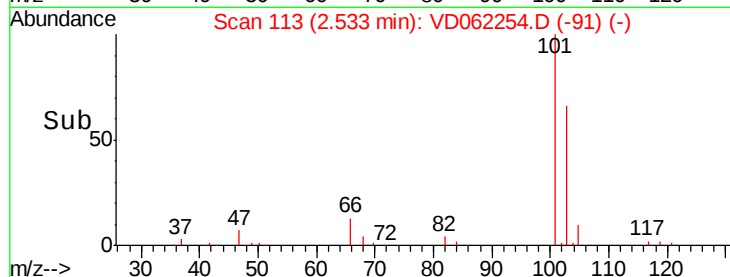
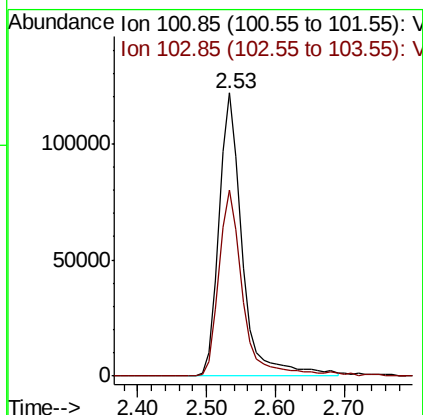
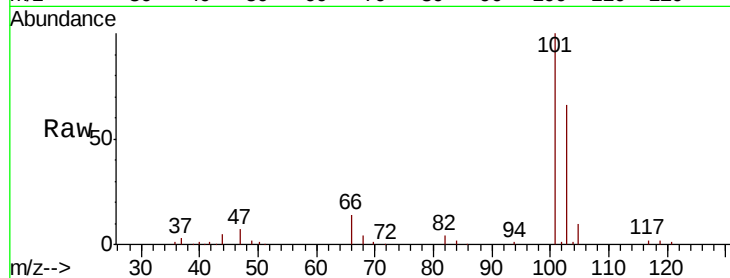


#7

Trichlorofluoromethane
Concen: 24.832 ug/l
RT: 2.53 min Scan# 113
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
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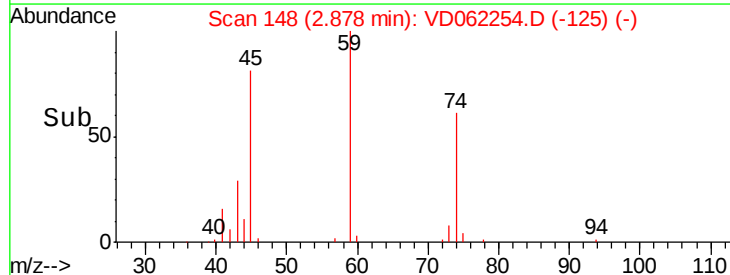
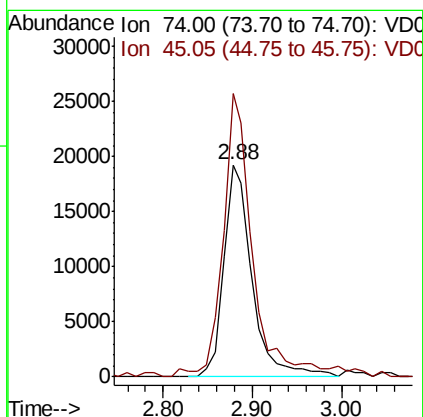
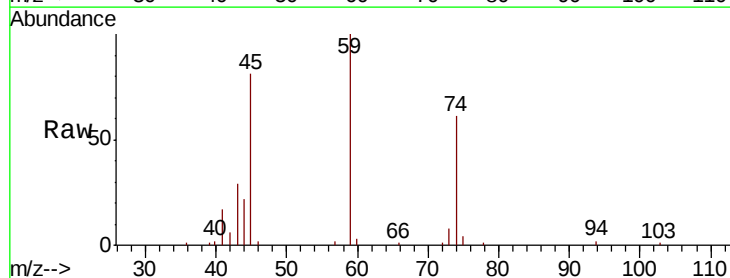
Tot Ion:101 Resp: 285993
Ion Ratio Lower Upper
101 100
103 65.5 53.6 80.4

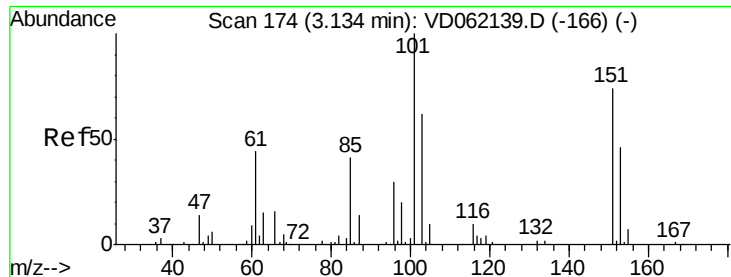


#8

Diethyl Ether
Concen: 19.354 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 74 Resp: 42989
Ion Ratio Lower Upper
74 100
45 133.5 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.614 ug/l

RT: 3.15 min Scan# 176

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

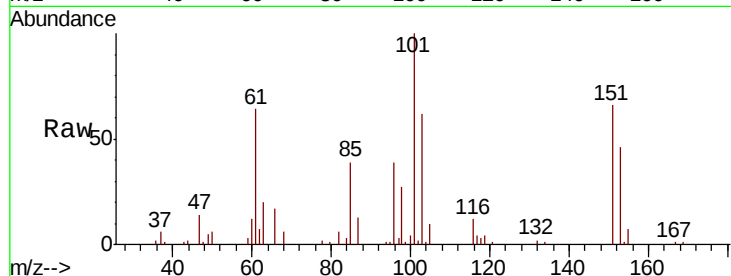
Tot Ion:101 Resp: 205735

Ion Ratio Lower Upper

101 100

85 39.4 32.4 48.6

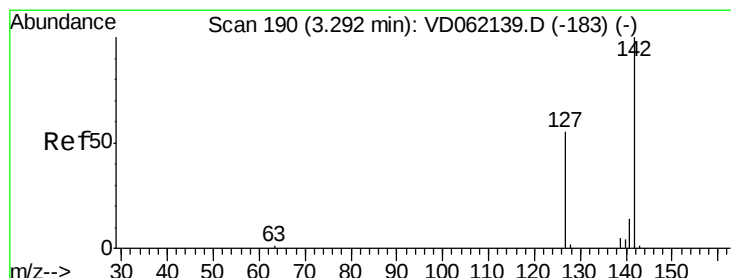
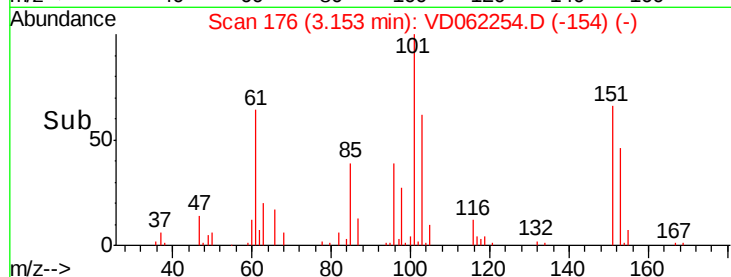
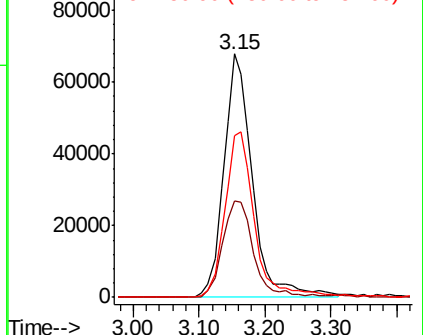
151 66.3 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 15.545 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

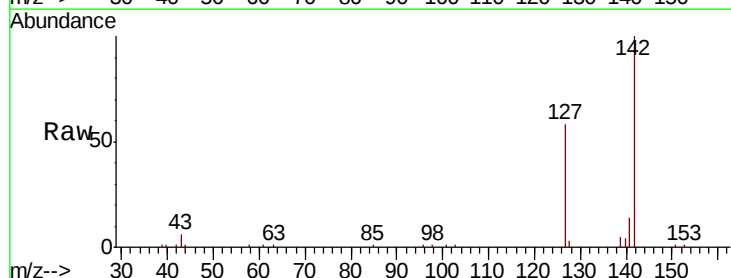
Tgt Ion:142 Resp: 204692

Ion Ratio Lower Upper

142 100

127 58.1 38.8 58.2

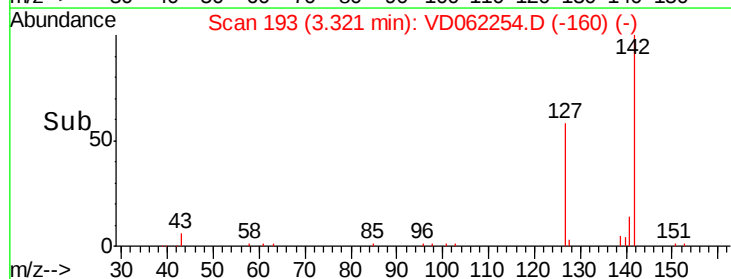
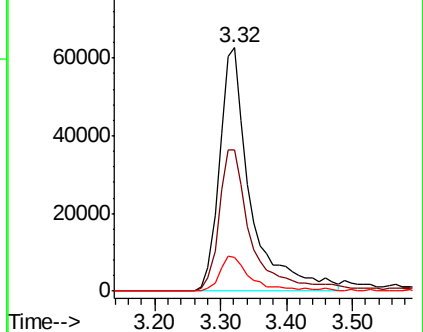
141 13.9 11.4 17.0

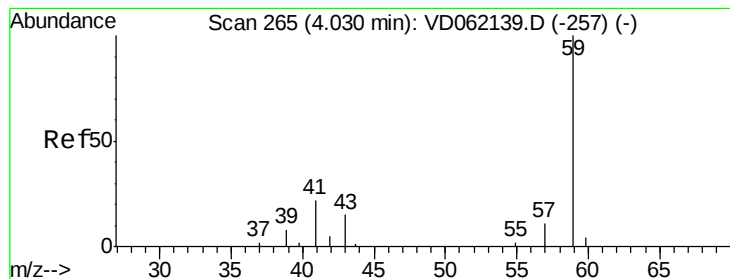


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



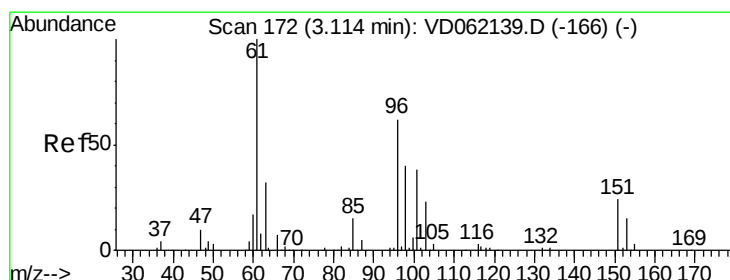
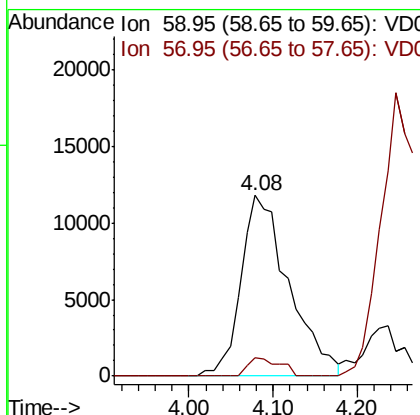
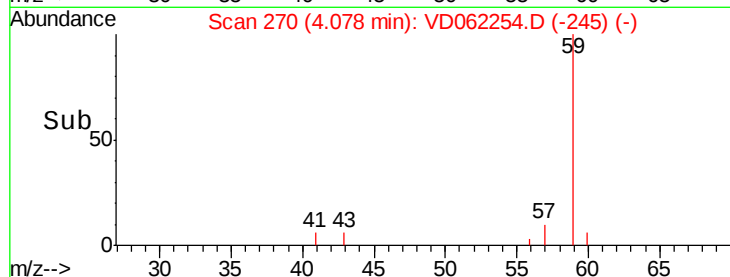
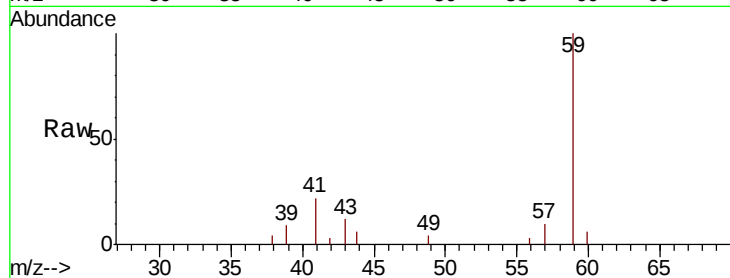


#11

Tert butyl alcohol
 Concen: 113.158 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. 0.05 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

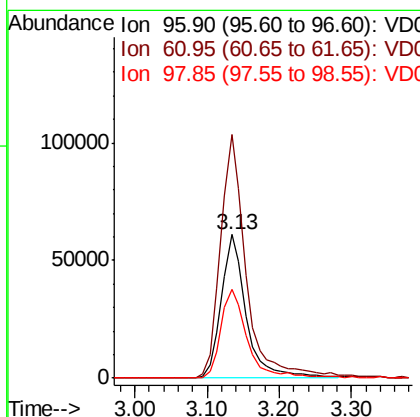
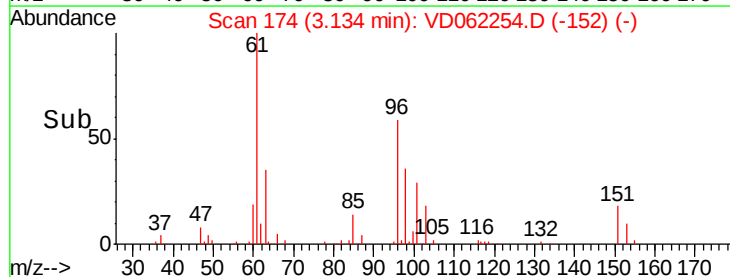
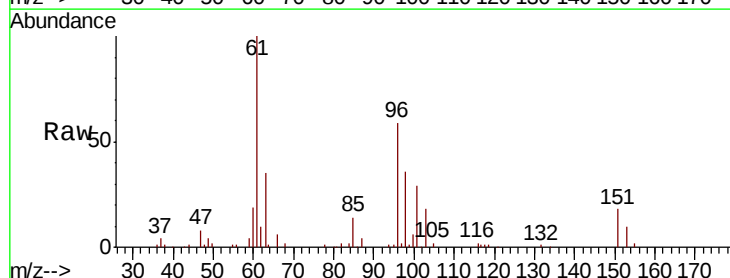
Tot Ion: 59 Resp: 46819
 Ion Ratio Lower Upper
 59 100
 57 9.9 6.9 10.3

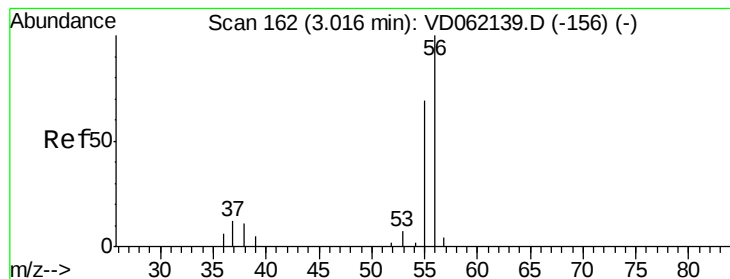


#12

1,1-Dichloroethene
 Concen: 22.055 ug/l
 RT: 3.13 min Scan# 174
 Delta R.T. 0.02 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion: 96 Resp: 146681
 Ion Ratio Lower Upper
 96 100
 61 169.7 129.8 194.8
 98 61.7 51.2 76.8





#13

Acrolein

Concen: 106.850 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

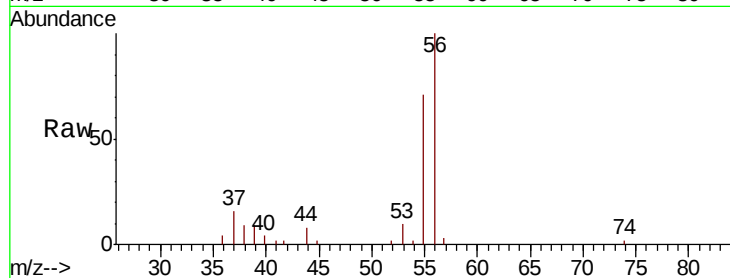
VD0512SBS01

Tot Ion: 56 Resp: 45726

Ion Ratio Lower Upper

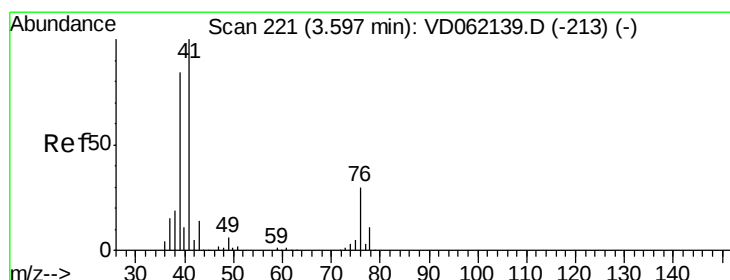
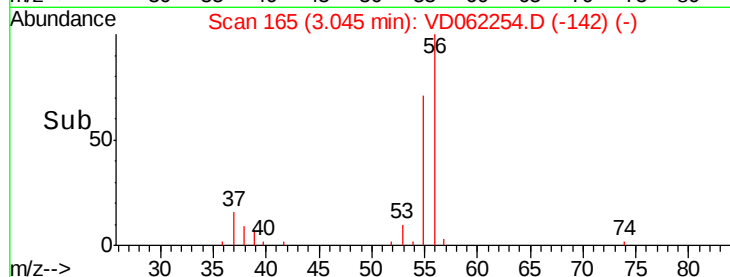
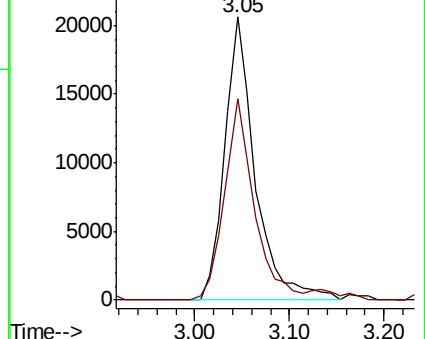
56 100

55 71.0 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.948 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

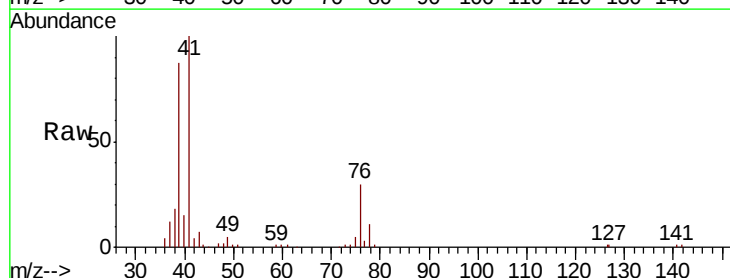
Tgt Ion: 41 Resp: 221907

Ion Ratio Lower Upper

41 100

39 86.6 60.5 90.7

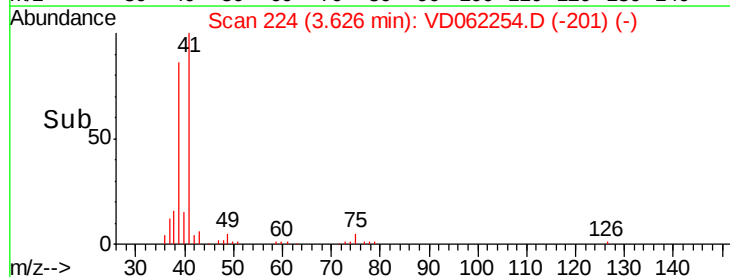
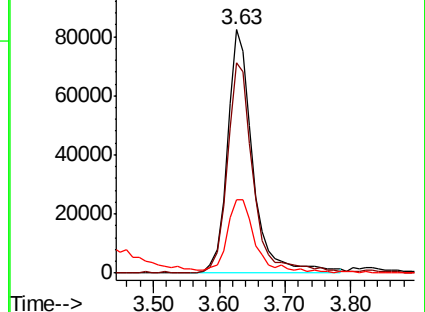
76 30.2 31.8 47.8#

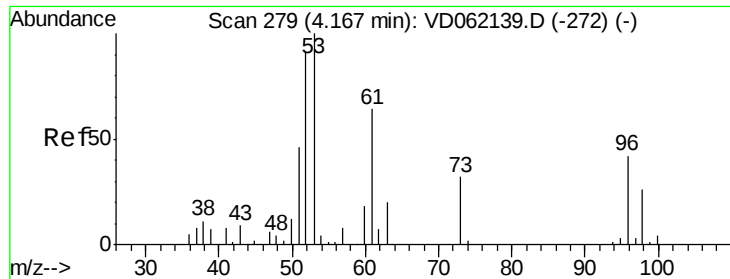


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 118.211 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.05 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

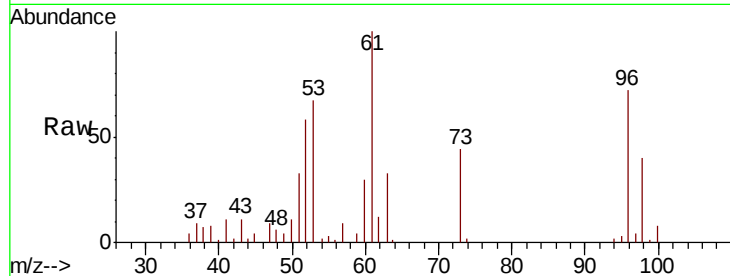
Tot Ion: 53 Resp: 128557

Ion Ratio Lower Upper

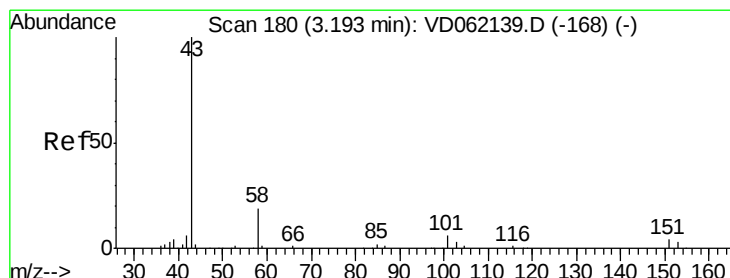
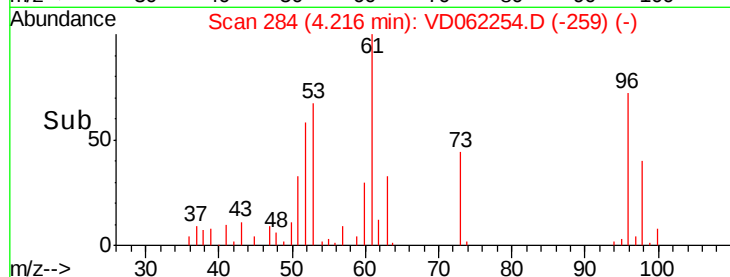
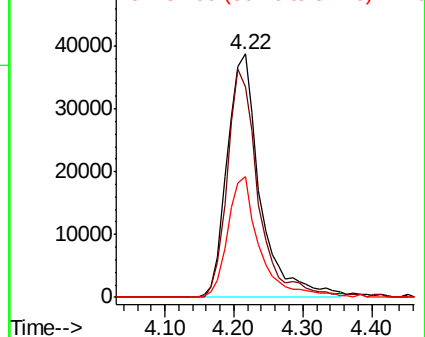
53 100

52 86.6 65.0 97.4

51 49.5 32.6 48.8#



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: 137.081 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD062254.D

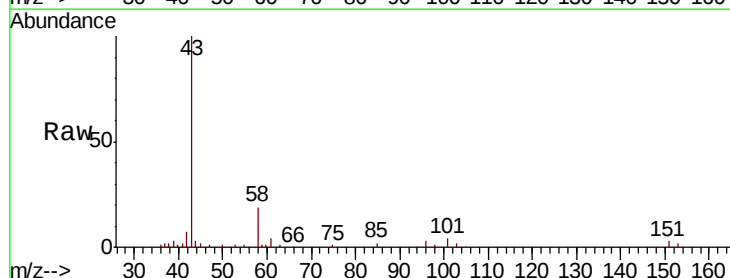
Acq: 12 May 2019 13:02

Tgt Ion: 43 Resp: 233017

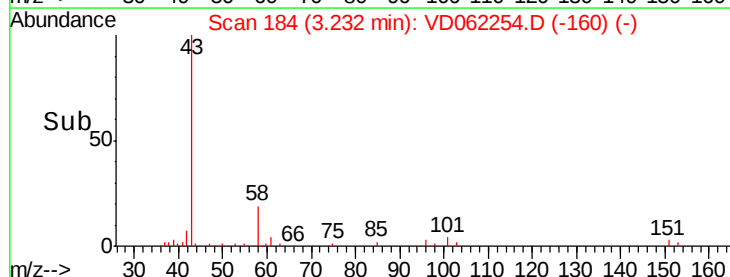
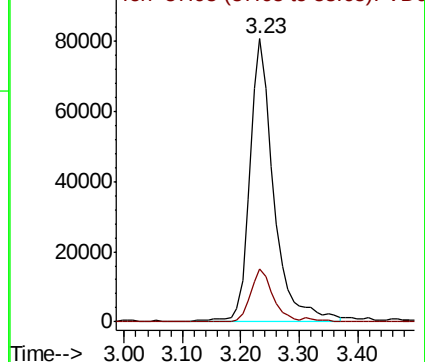
Ion Ratio Lower Upper

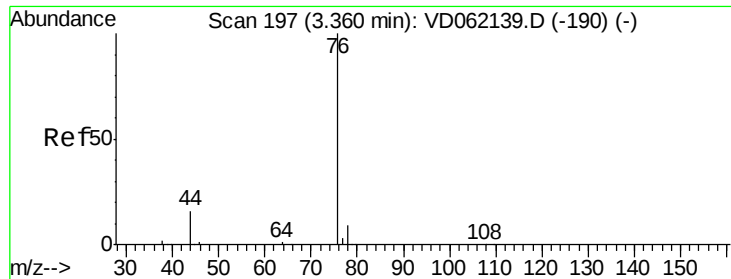
43 100

58 18.8 19.9 29.9#



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

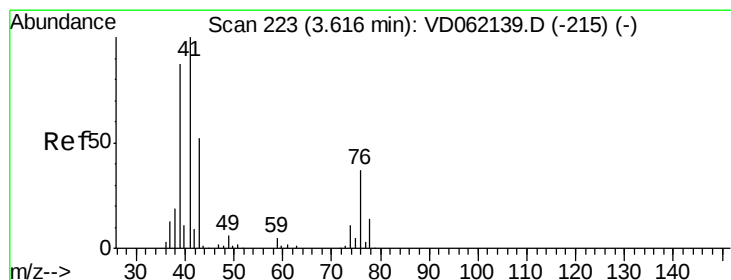
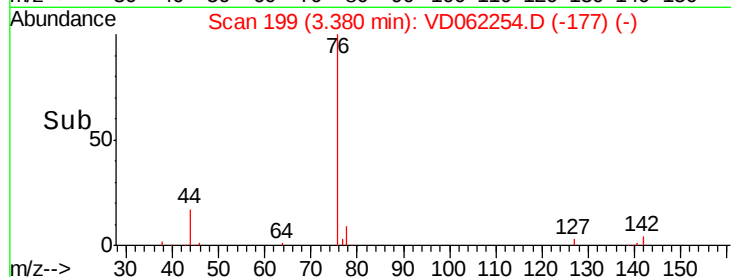
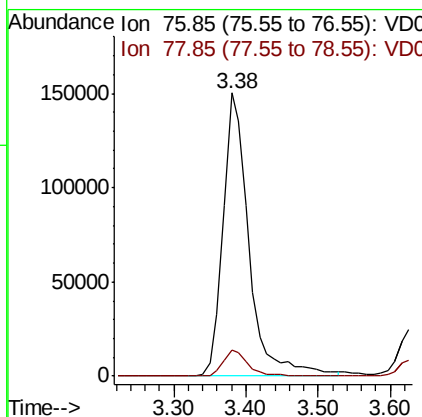
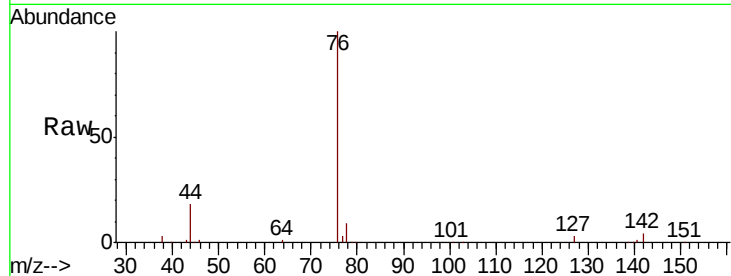




#17
Carbon Disulfide
Concen: 19.507 ug/l
RT: 3.38 min Scan# 199
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

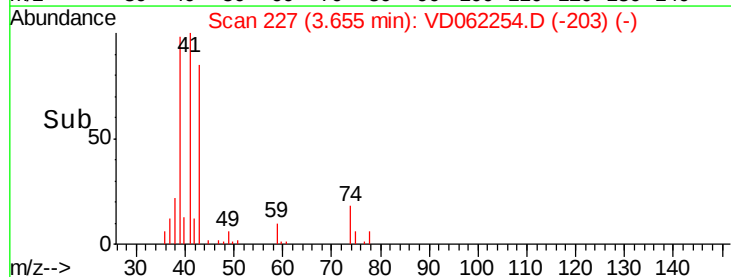
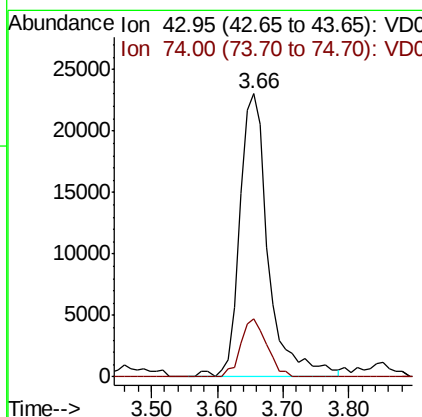
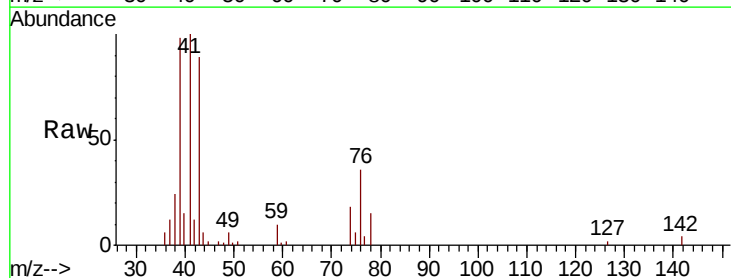
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

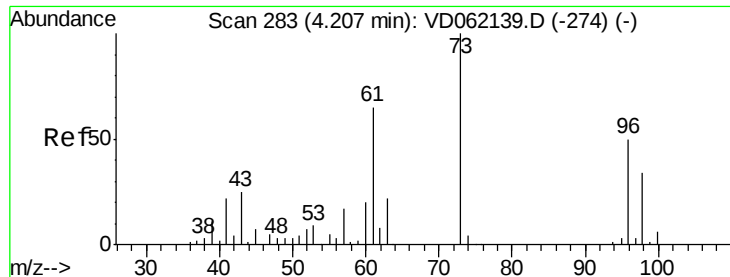
Tot Ion: 76 Resp: 373208
Ion Ratio Lower Upper
76 100
78 9.4 7.2 10.8



#18
Methyl Acetate
Concen: 22.992 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 43 Resp: 70399
Ion Ratio Lower Upper
43 100
74 20.6 18.0 27.0



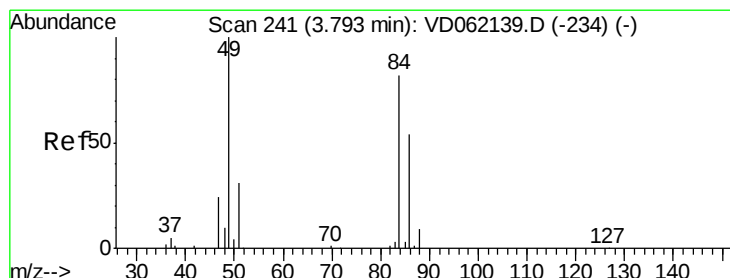
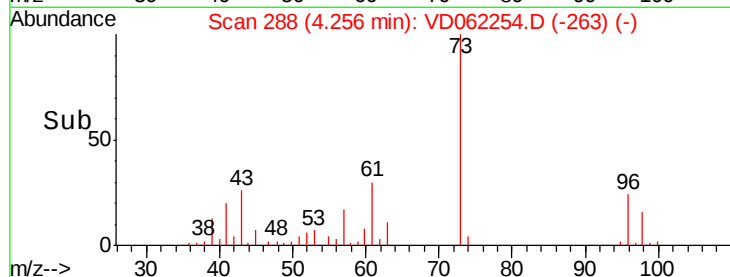
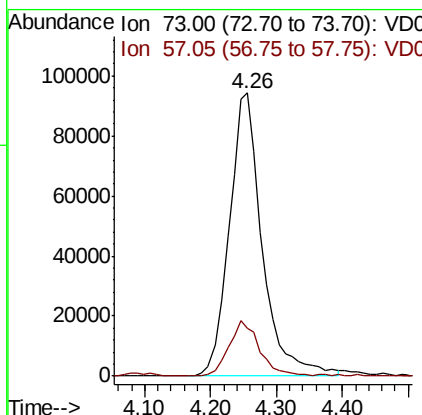
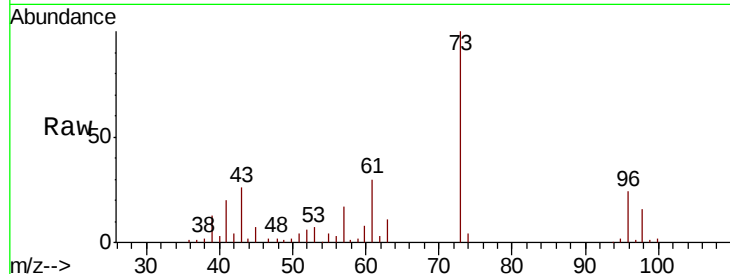


#19

Methyl tert-butyl Ether
 Concen: 23.100 ug/l
 RT: 4.26 min Scan# 288
 Delta R.T. 0.05 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0512SBS01

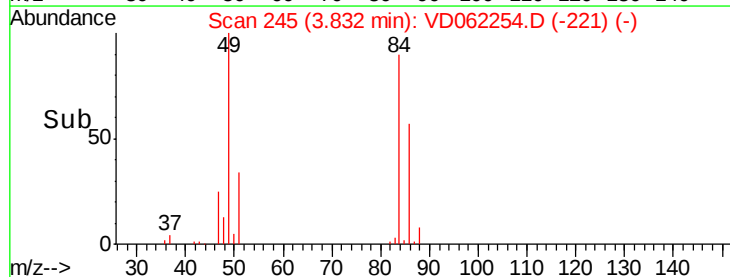
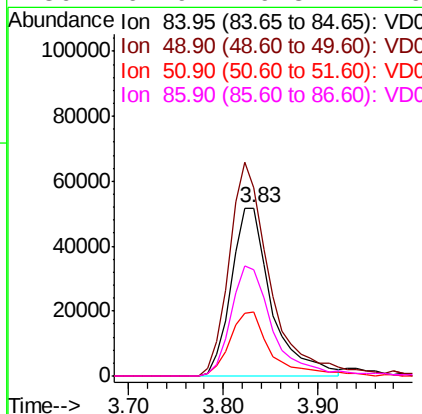
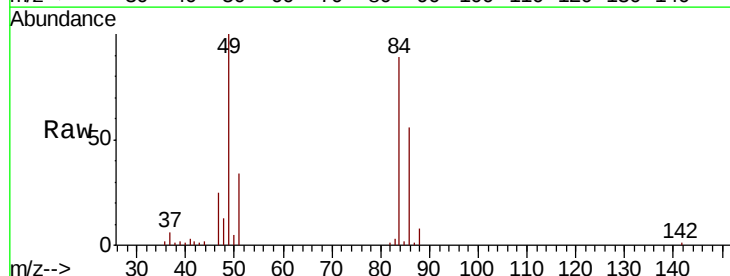
Tot Ion: 73 Resp: 329292
 Ion Ratio Lower Upper
 73 100
 57 16.7 16.3 24.5



#20

Methylene Chloride
 Concen: 21.453 ug/l
 RT: 3.83 min Scan# 245
 Delta R.T. 0.04 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion: 84 Resp: 152261
 Ion Ratio Lower Upper
 84 100
 49 112.1 94.0 141.0
 51 37.7 29.0 43.4
 86 62.9 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 21.566 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

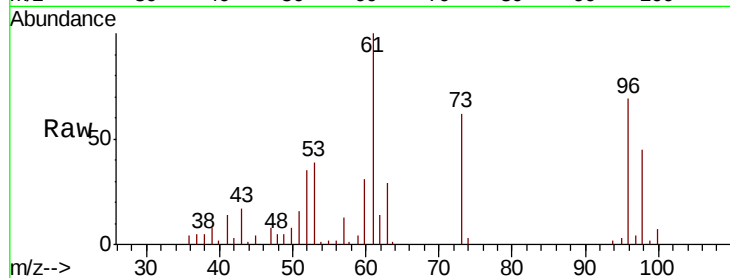
Tot Ion: 96 Resp: 159599

Ion Ratio Lower Upper

96 100

61 144.2 104.4 156.6

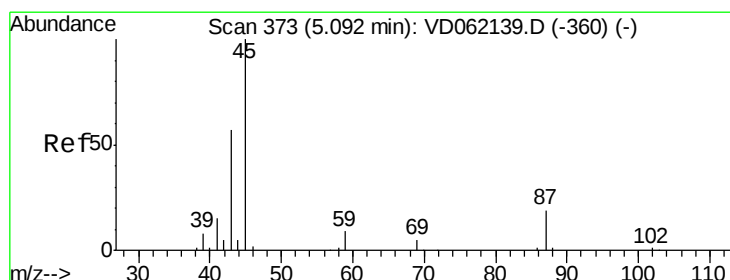
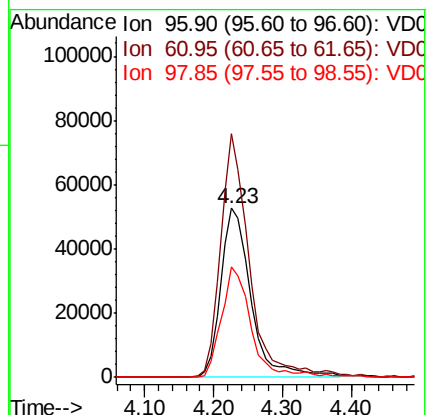
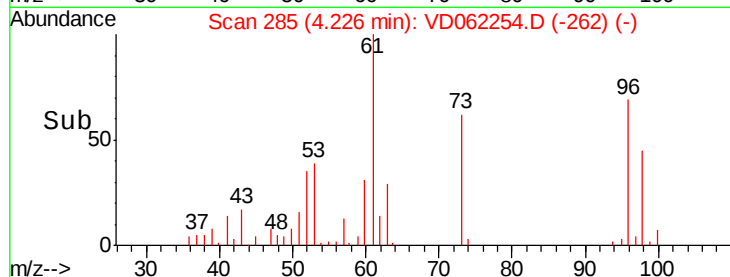
98 65.4 51.8 77.8



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: 22.614 ug/l

RT: 5.14 min Scan# 378

Delta R.T. 0.05 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Tgt Ion: 45 Resp: 465339

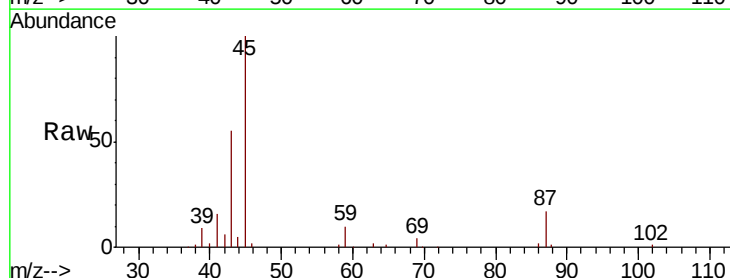
Ion Ratio Lower Upper

45 100

43 54.7 46.2 69.2

87 17.3 15.9 23.9

59 9.8 7.9 11.9

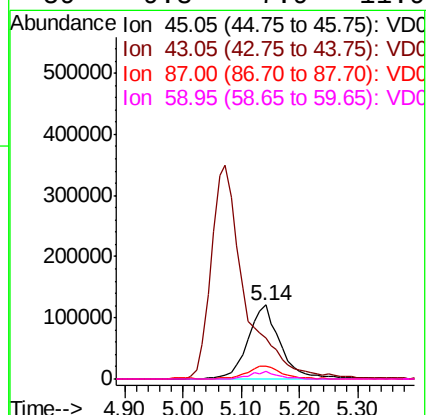
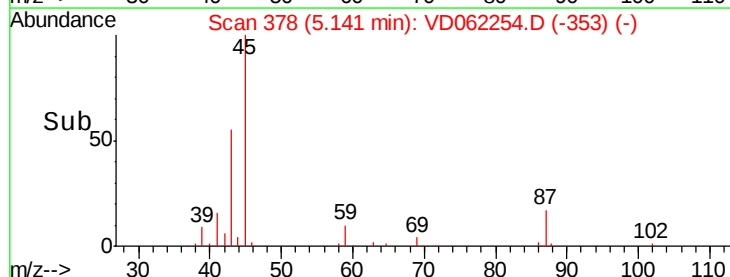


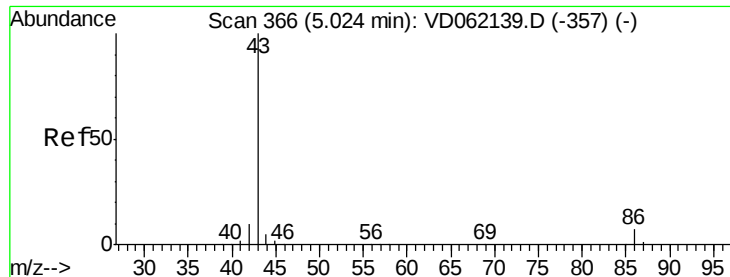
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 126.001 ug/l

RT: 5.07 min Scan# 371

Delta R.T. 0.05 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

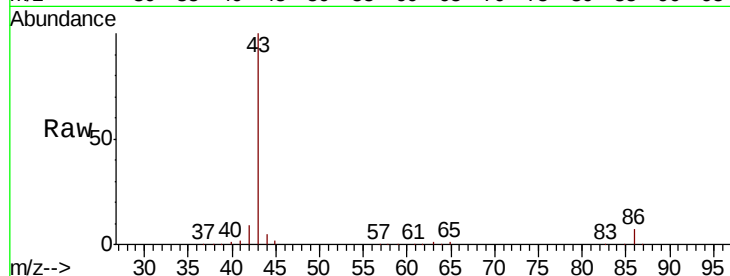
VD0512SBS01

Tot Ion: 43 Resp: 1367967

Ion Ratio Lower Upper

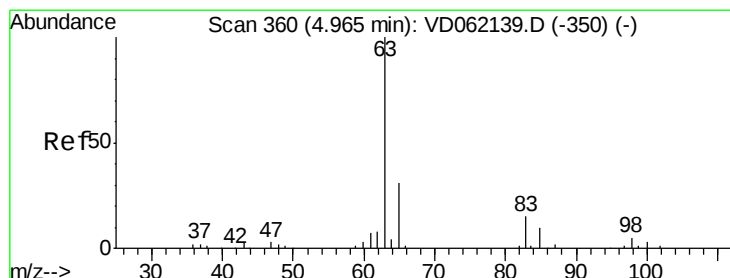
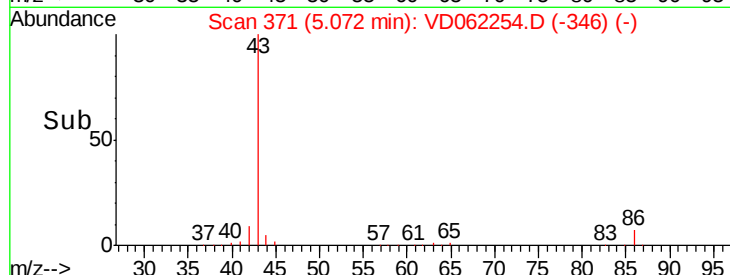
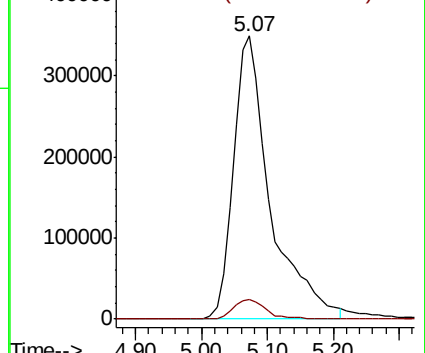
43 100

86 7.1 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 23.804 ug/l

RT: 4.99 min Scan# 363

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

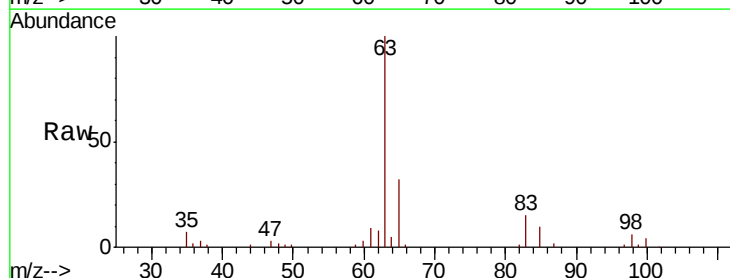
Tgt Ion: 63 Resp: 295486

Ion Ratio Lower Upper

63 100

98 5.5 2.8 8.4

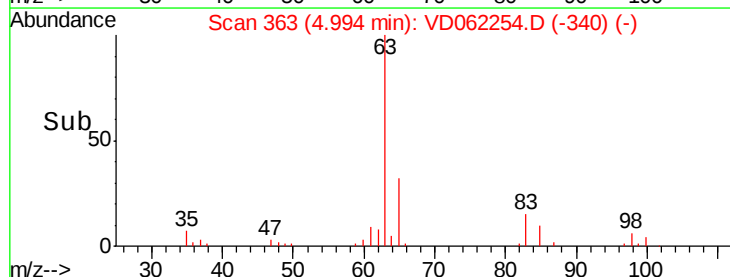
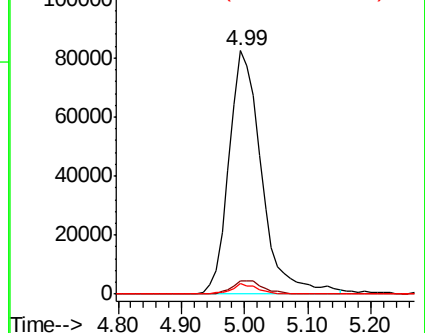
100 4.1 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 128.616 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.05 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

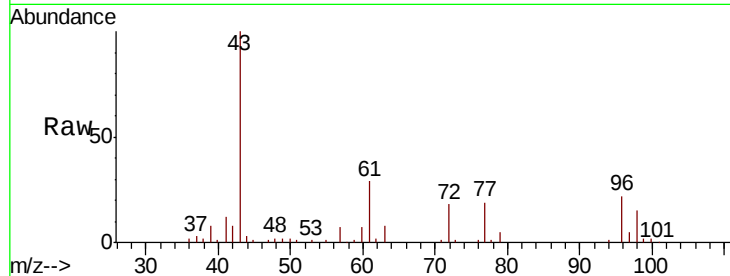
VD0512SBS01

Tot Ion: 43 Resp: 238470

Ion Ratio Lower Upper

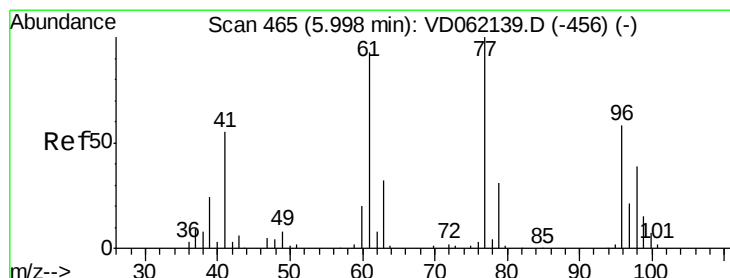
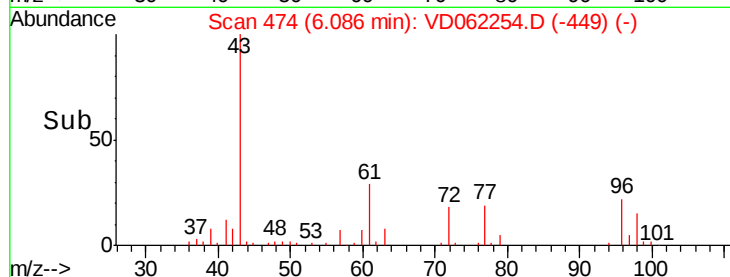
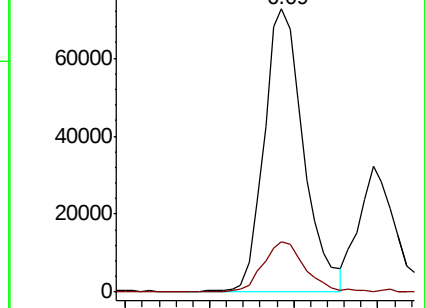
43 100

72 18.0 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 24.047 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.04 min

Lab File: VD062254.D

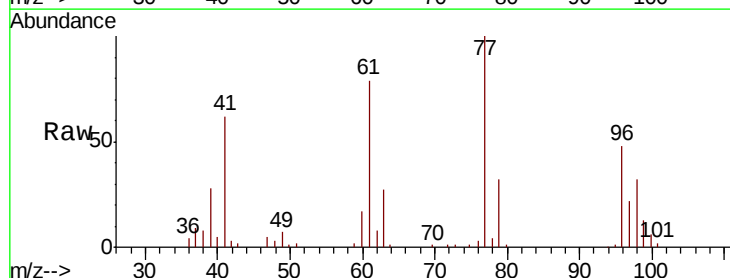
Acq: 12 May 2019 13:02

Tgt Ion: 77 Resp: 297345

Ion Ratio Lower Upper

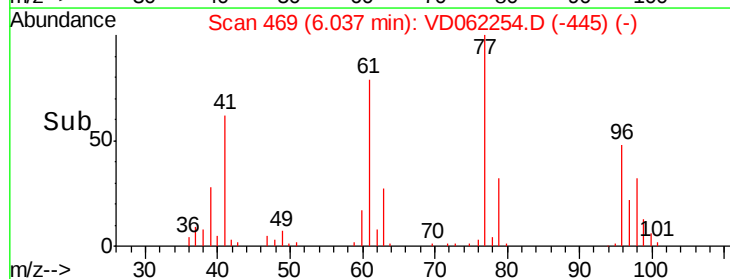
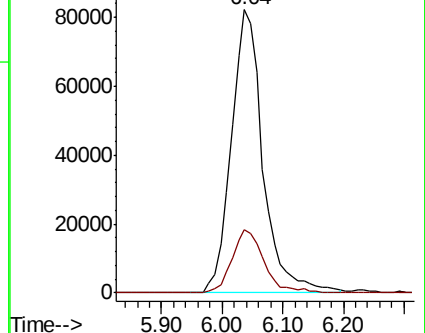
77 100

97 22.3 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



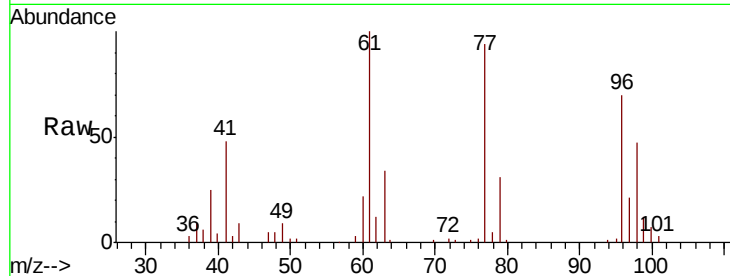


#27

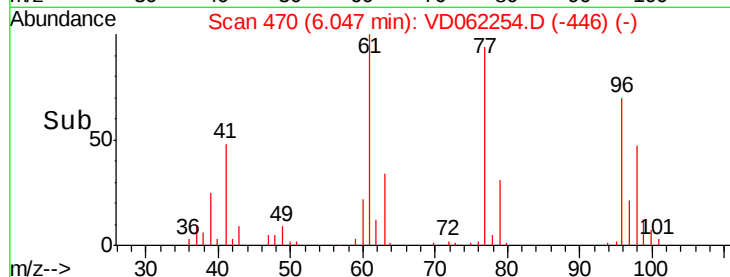
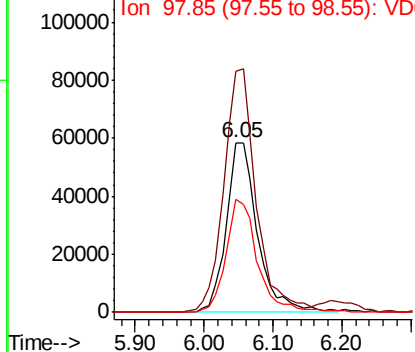
cis-1,2-Dichloroethene
Concen: 22.228 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 96 Resp: 184125
Ion Ratio Lower Upper
96 100
61 142.2 0.0 279.8
98 66.4 0.0 136.0



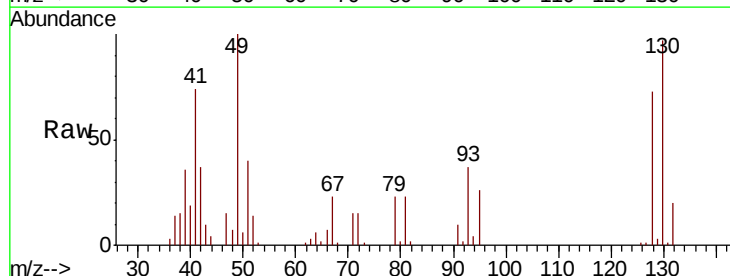
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



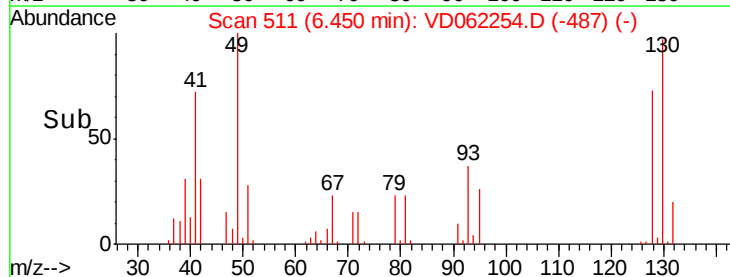
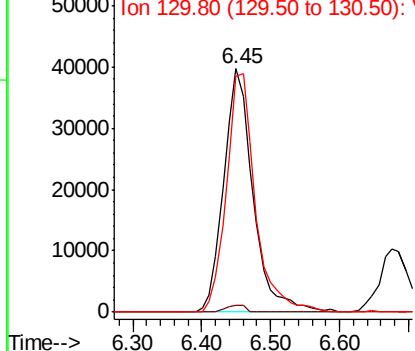
#28

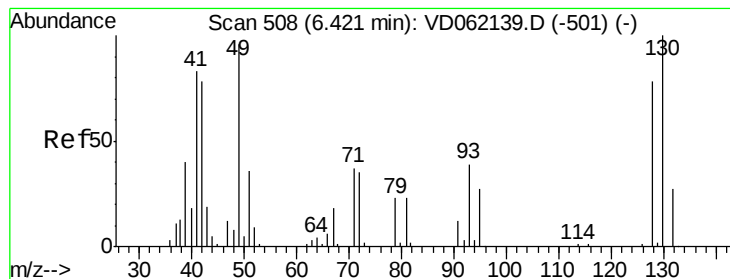
Bromochloromethane
Concen: 23.968 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 49 Resp: 117055
Ion Ratio Lower Upper
49 100
129 2.9 0.0 6.6
130 96.9 86.7 130.1



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: 116.206 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

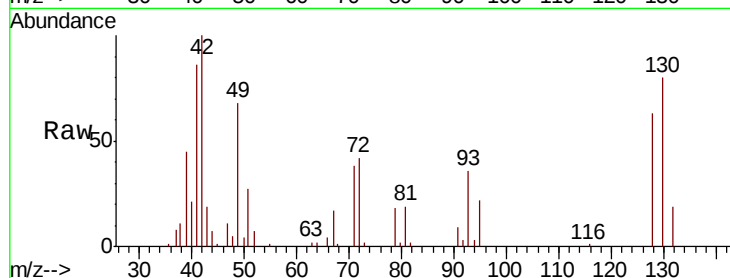
Tot Ion: 42 Resp: 99275

Ion Ratio Lower Upper

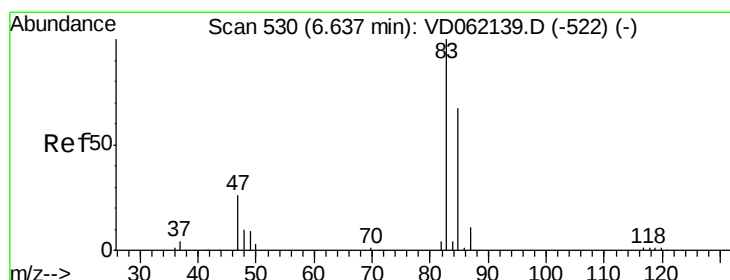
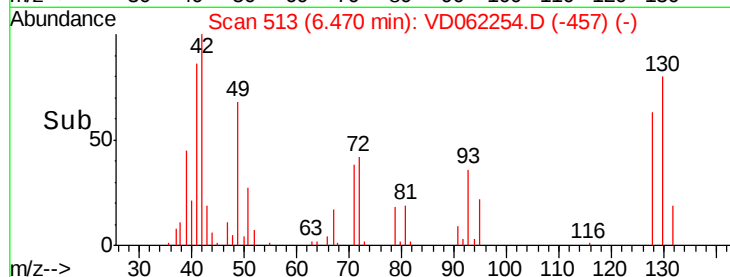
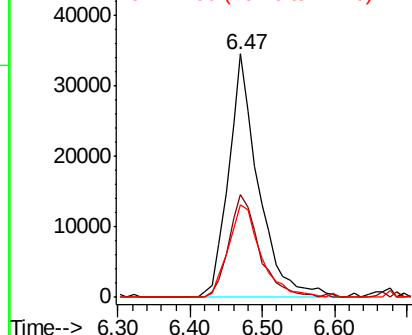
42 100

72 43.3 37.8 56.6

71 41.6 36.7 55.1



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



#30

Chloroform

Concen: 23.513 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.04 min

Lab File: VD062254.D

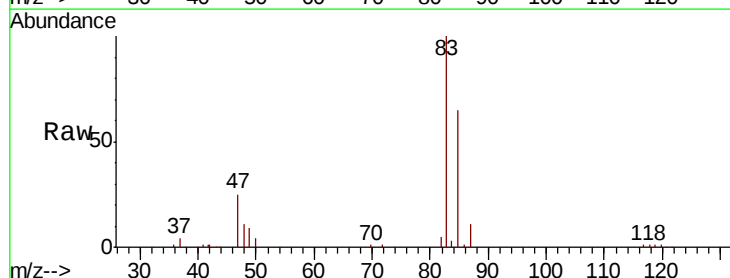
Acq: 12 May 2019 13:02

Tgt Ion: 83 Resp: 351769

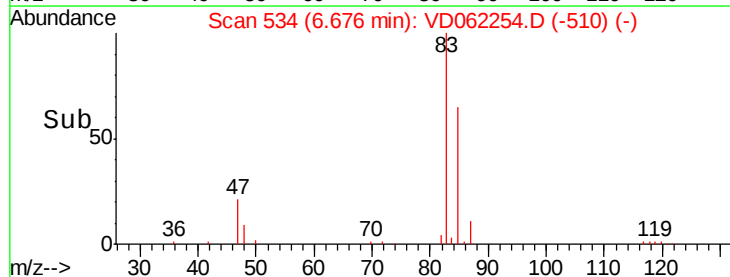
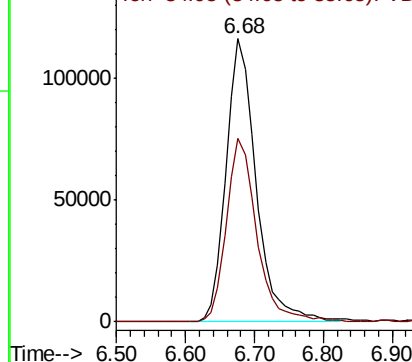
Ion Ratio Lower Upper

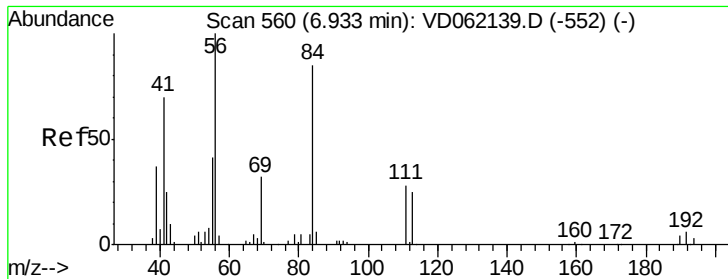
83 100

85 64.8 51.7 77.5



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

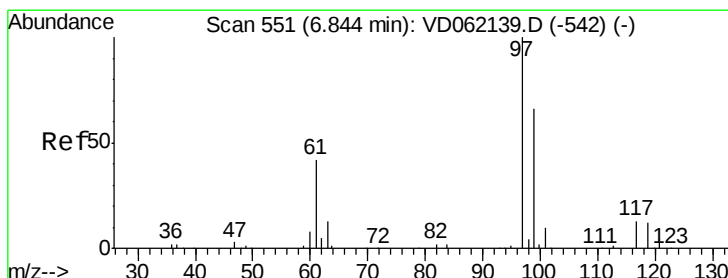
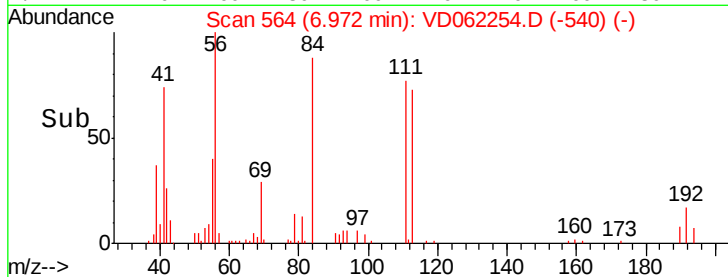
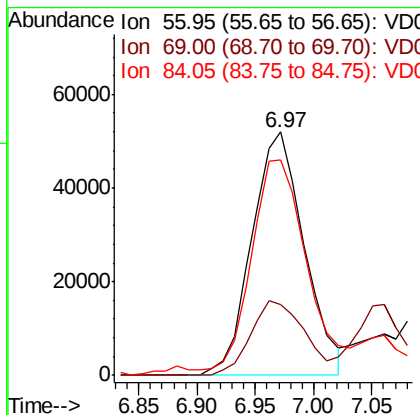
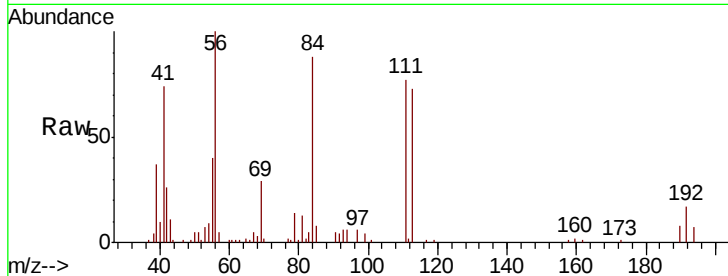




#31
Cvclohexane
Concen: 18.997 ug/l
RT: 6.97 min Scan# 564
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

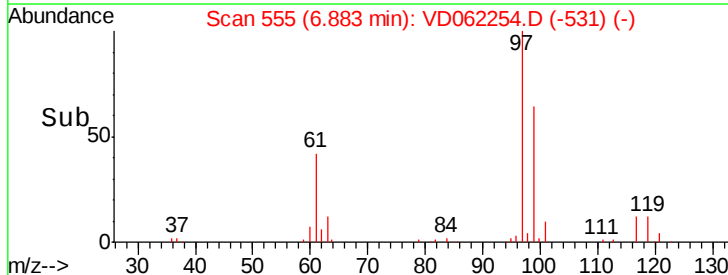
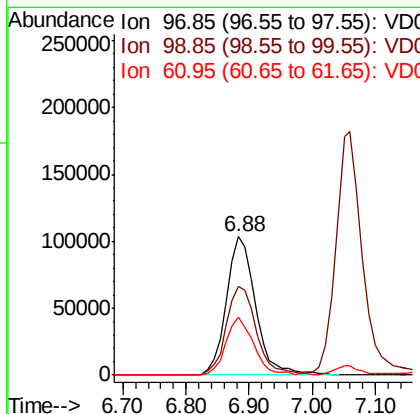
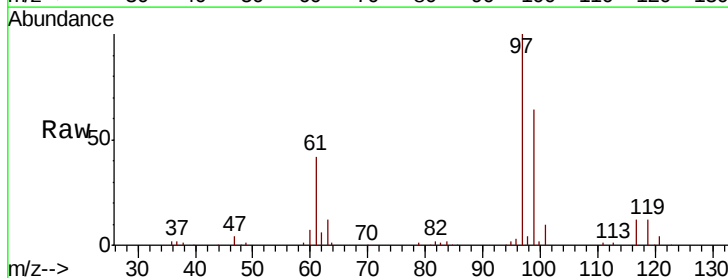
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 56 Resp: 161560
Ion Ratio Lower Upper
56 100
69 29.0 25.8 38.6
84 88.3 72.2 108.4



#32
1,1,1-Trichloroethane
Concen: 23.416 ug/l
RT: 6.88 min Scan# 555
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 97 Resp: 331118
Ion Ratio Lower Upper
97 100
99 64.5 52.2 78.2
61 41.8 32.4 48.6





#33

1,2-Dichloroethane-d4

Concen: 48.536 ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

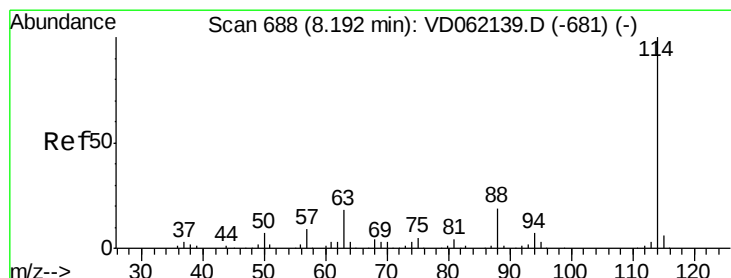
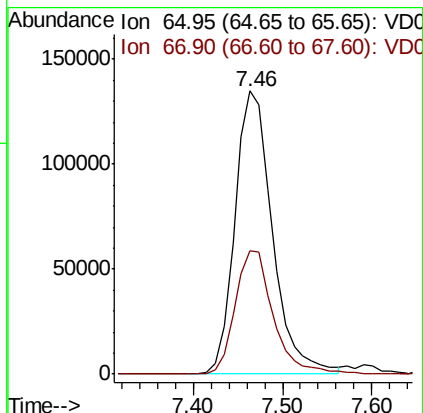
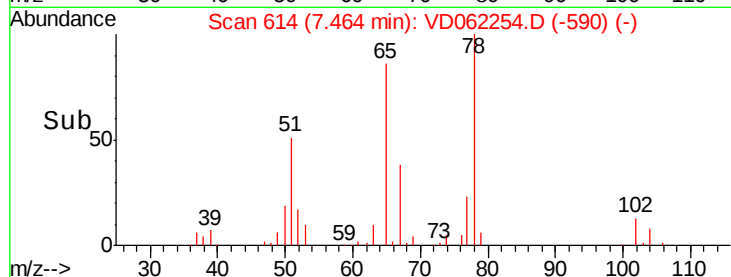
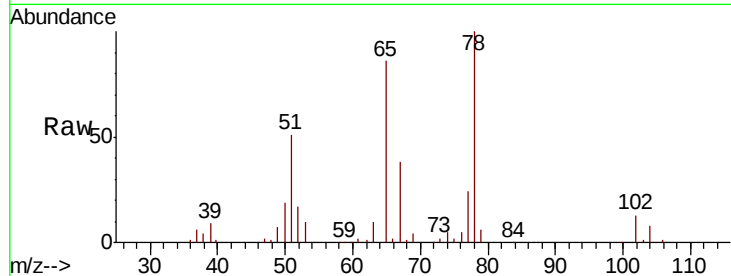
VD0512SBS01

Tot Ion: 65 Resp: 393420

Ion Ratio Lower Upper

65 100

67 43.7 0.0 98.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.04 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

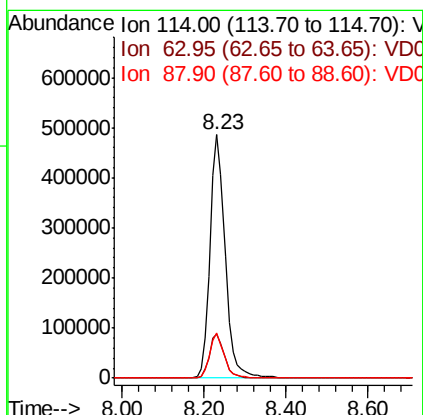
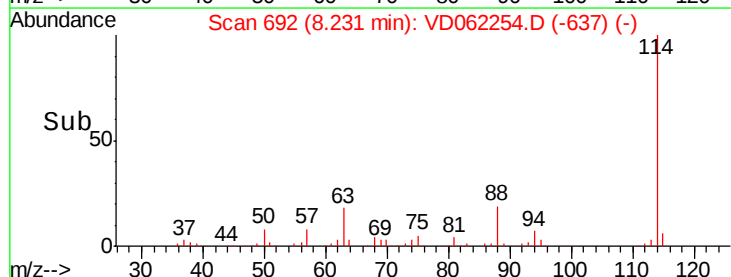
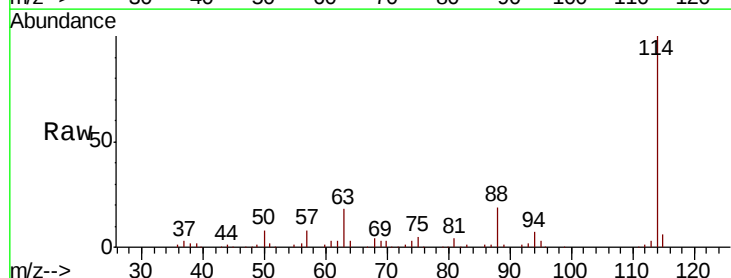
Tgt Ion: 114 Resp: 1248953

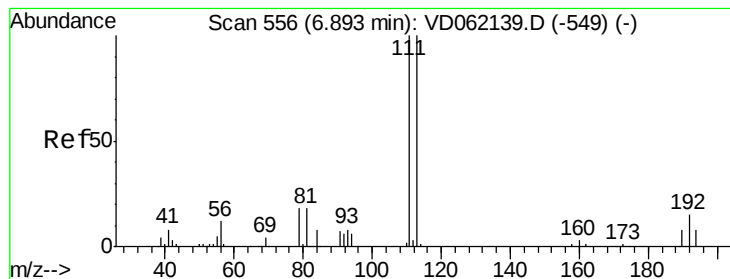
Ion Ratio Lower Upper

114 100

63 17.9 0.0 32.4

88 18.5 0.0 33.6





#35

Dibromofluoromethane

Concen: 45.239 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.05 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

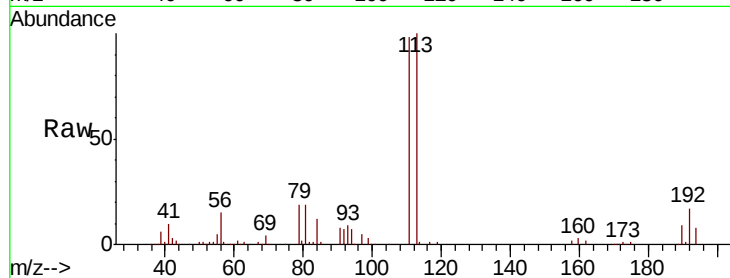
Tot Ion:113 Resp: 468796

Ion Ratio Lower Upper

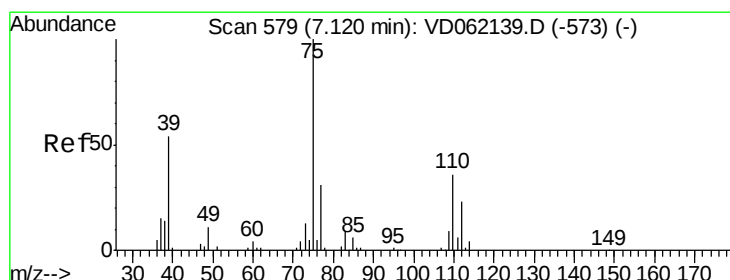
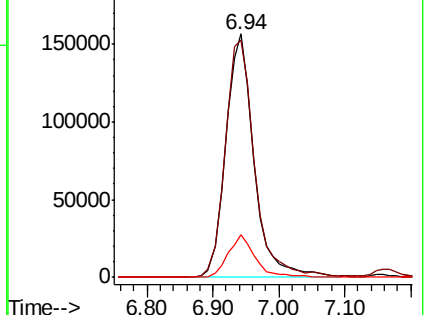
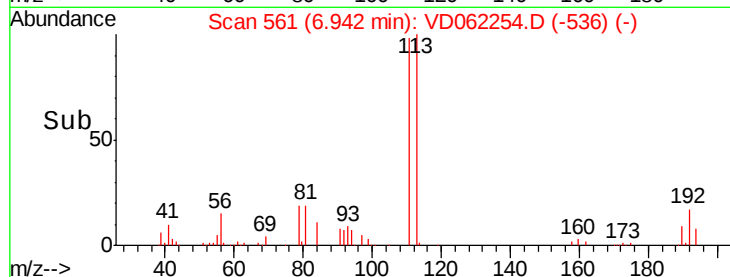
113 100

111 97.7 78.5 117.7

192 17.4 13.0 19.4



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: 22.529 ug/l

RT: 7.16 min Scan# 583

Delta R.T. 0.04 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

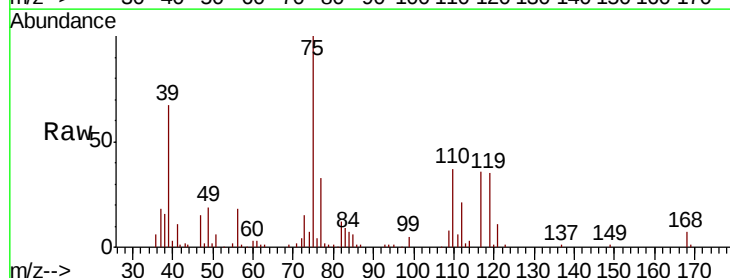
Tgt Ion: 75 Resp: 230705

Ion Ratio Lower Upper

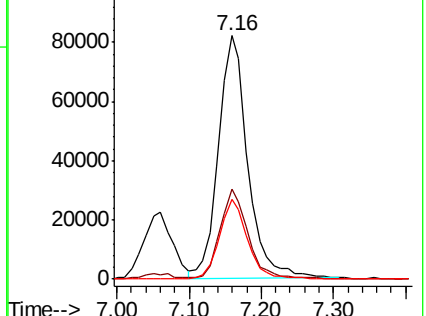
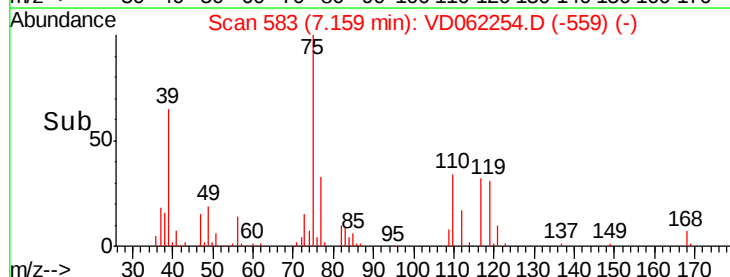
75 100

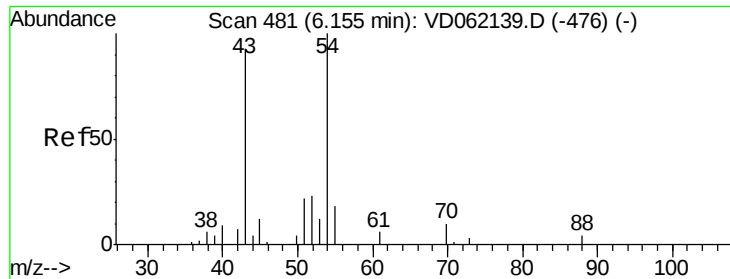
110 36.8 19.1 57.1

77 32.8 25.6 38.4



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

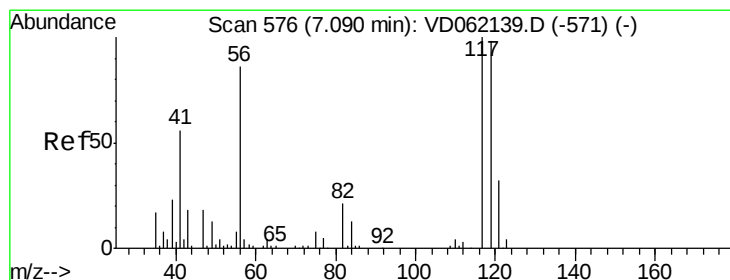
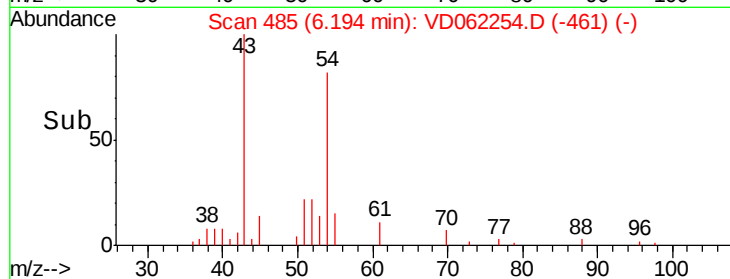
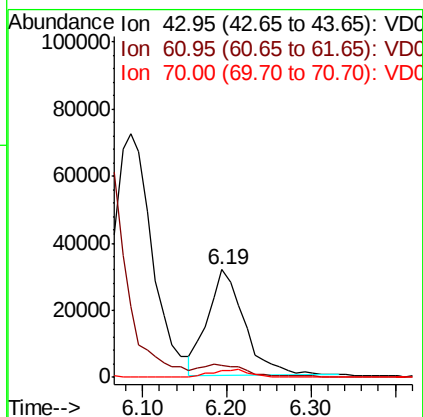
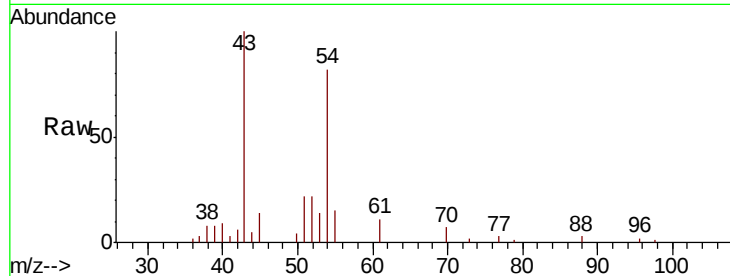




#37
Ethyl Acetate
Concen: 22.092 ug/l
RT: 6.19 min Scan# 485
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

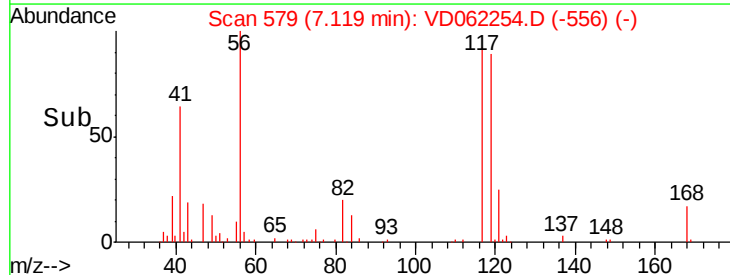
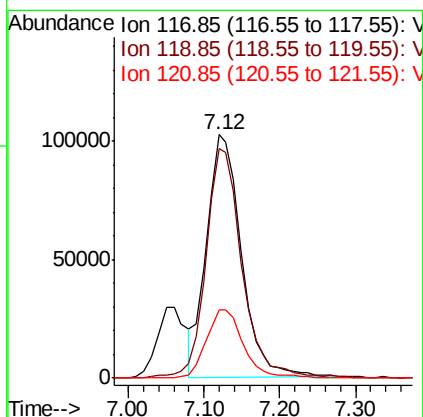
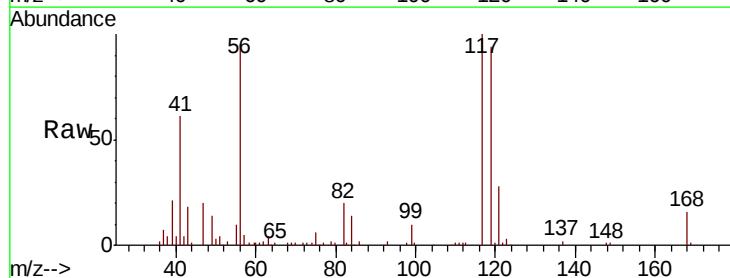
Instrument :
MSVOA_D
ClientSampleID :
VD0512SBS01

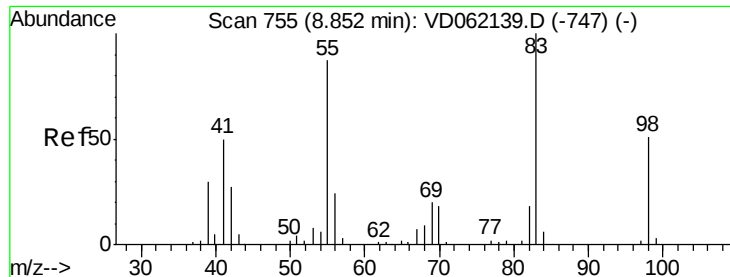
Tot Ion: 43 Resp: 95938
Ion Ratio Lower Upper
43 100
61 11.0 14.7 22.1#
70 6.9 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 23.198 ug/l
RT: 7.12 min Scan# 579
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 117 Resp: 328792
Ion Ratio Lower Upper
117 100
119 94.1 75.8 113.8
121 27.9 25.9 38.9

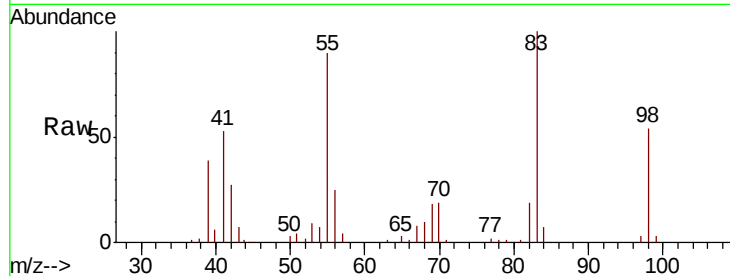




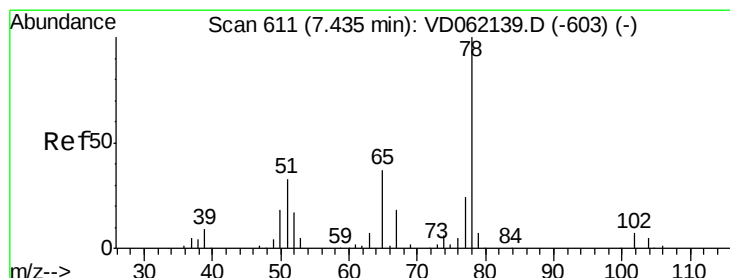
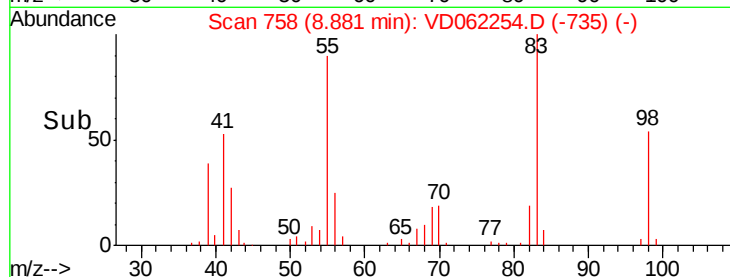
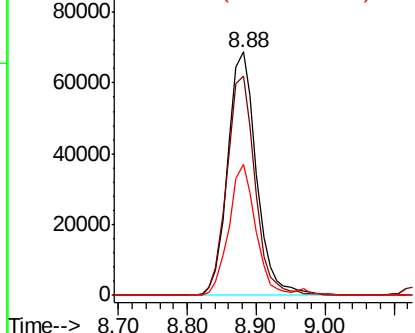
#39
Methvlcvclohexane
Concen: 20.286 ug/l
RT: 8.88 min Scan# 758
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 83 Resp: 199035
Ion Ratio Lower Upper
83 100
55 90.3 68.2 102.4
98 53.6 38.2 57.4

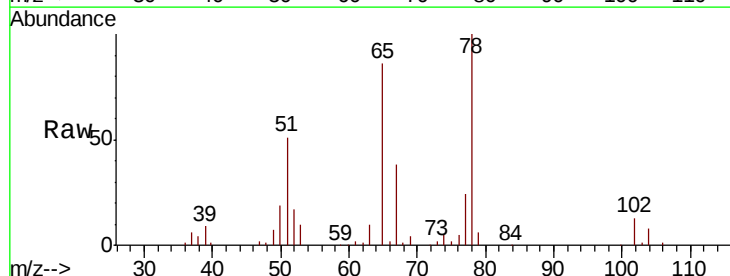


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

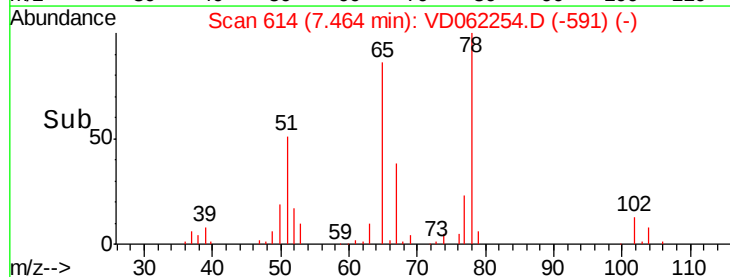
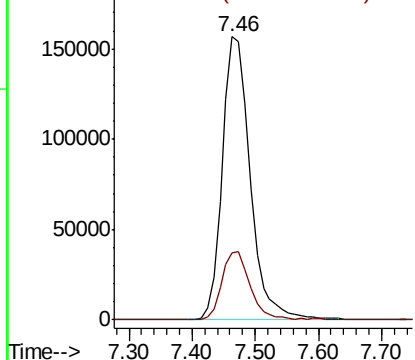


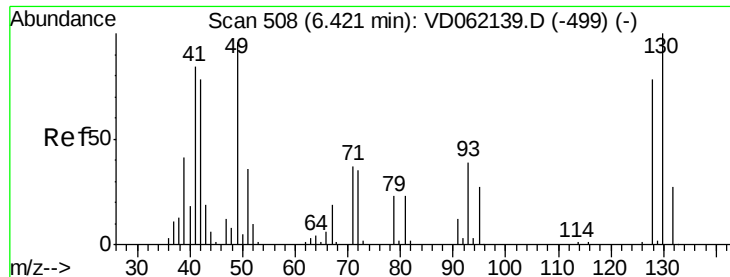
#40
Benzene
Concen: 20.863 ug/l
RT: 7.46 min Scan# 614
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 78 Resp: 482422
Ion Ratio Lower Upper
78 100
77 23.8 19.7 29.5



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

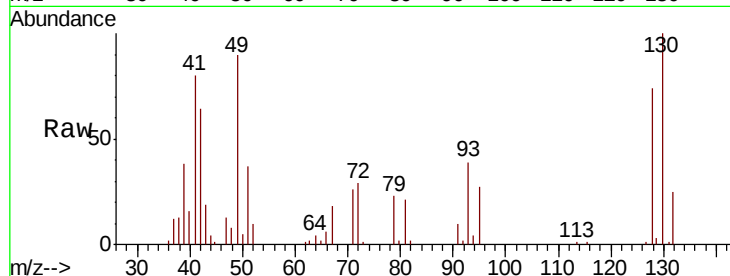




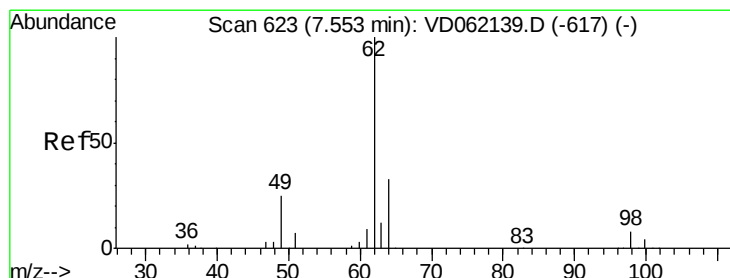
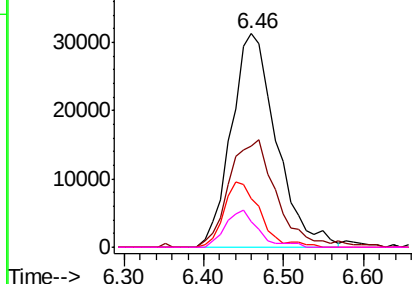
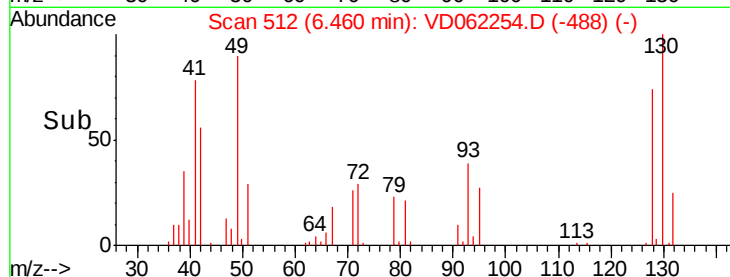
#41
Methacrylonitrile
Concen: 23.110 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 41 Resp: 122648
Ion Ratio Lower Upper
41 100
39 47.2 34.1 51.1
67 22.7 23.8 35.6#
52 12.1 8.8 13.2

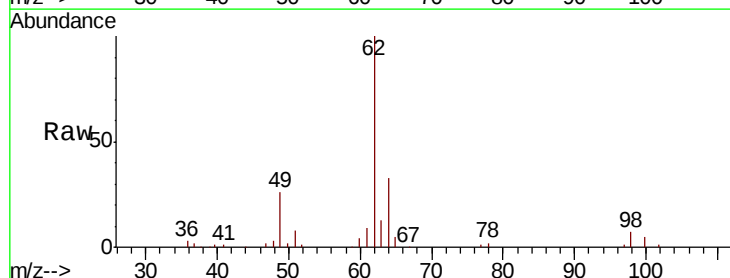


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

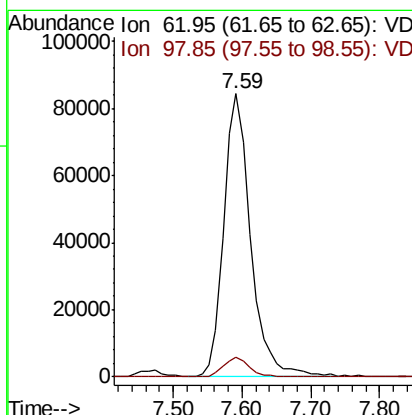
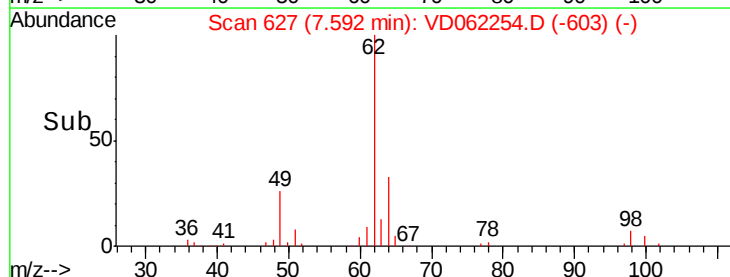


#42
1,2-Dichloroethane
Concen: 23.302 ug/l
RT: 7.59 min Scan# 627
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 62 Resp: 228296
Ion Ratio Lower Upper
62 100
98 7.0 0.0 17.8



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



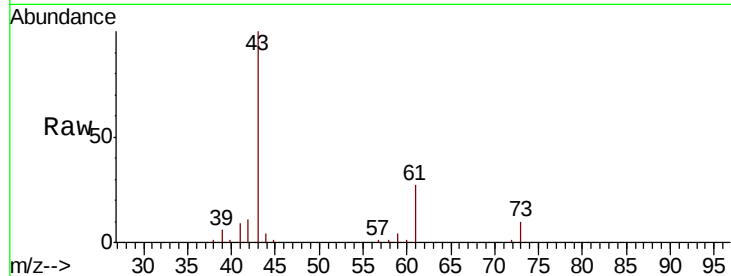


#43

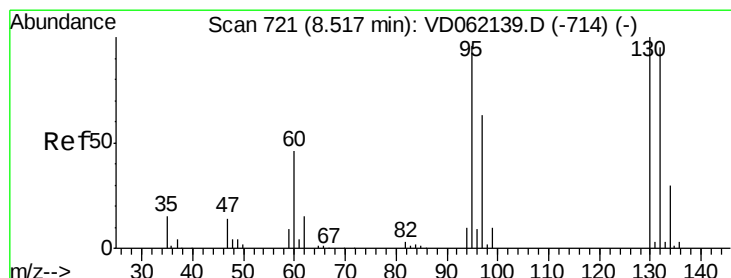
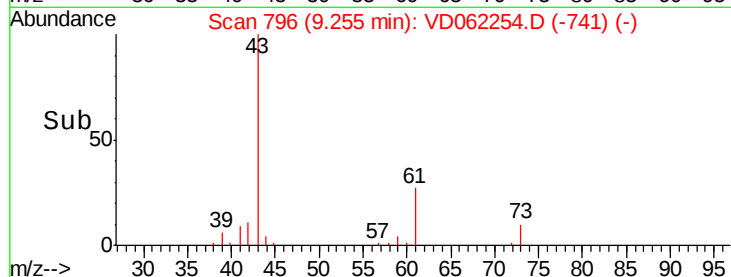
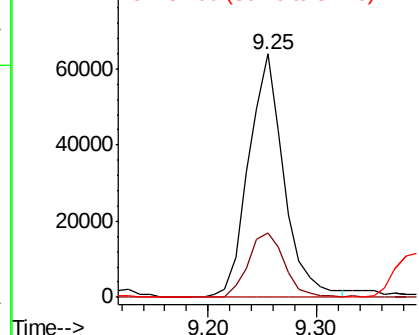
Isopropyl Acetate
 Concen: 23.623 ug/l
 RT: 9.25 min Scan# 796
 Delta R.T. 0.04 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

Tot Ion: 43 Resp: 145493
 Ion Ratio Lower Upper
 43 100
 61 26.5 25.1 37.7
 87 0.0 0.0 0.0



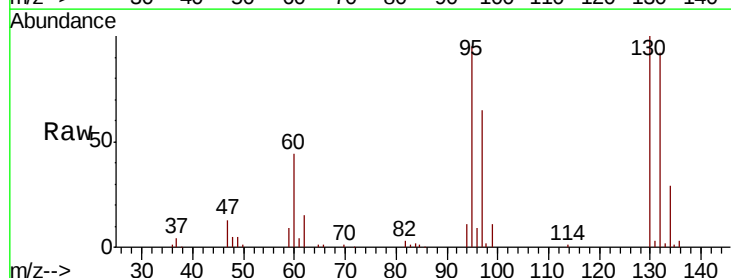
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



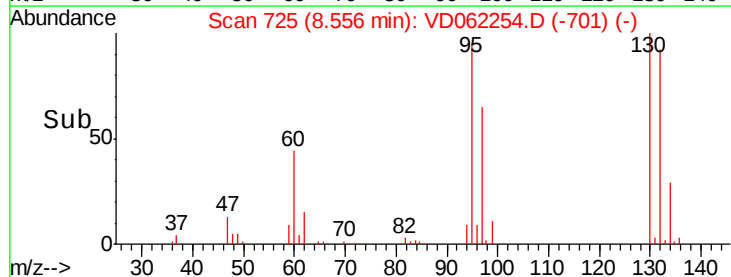
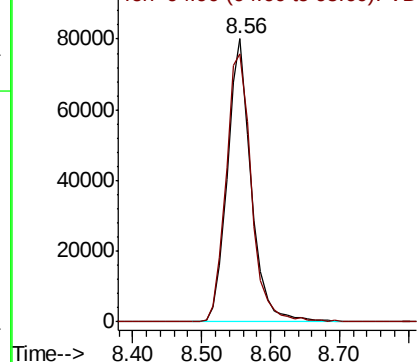
#44

Trichloroethene
 Concen: 21.671 ug/l
 RT: 8.56 min Scan# 725
 Delta R.T. 0.04 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion: 130 Resp: 190951
 Ion Ratio Lower Upper
 130 100
 95 94.8 0.0 174.0



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





#45

1,2-Dichloropropane

Concen: 21.319 ug/l

RT: 8.95 min Scan# 765

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

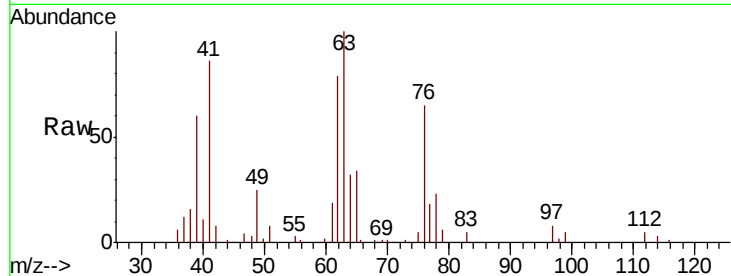
VD0512SBS01

Tot Ion: 63 Resp: 121937

Ion Ratio Lower Upper

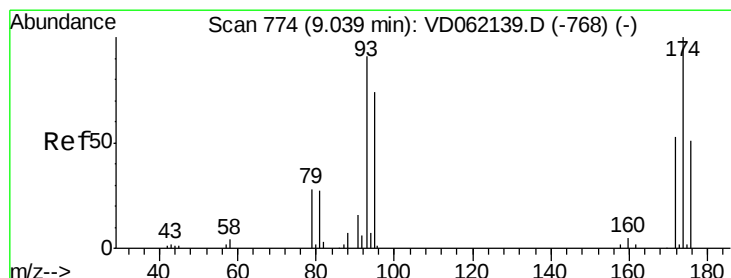
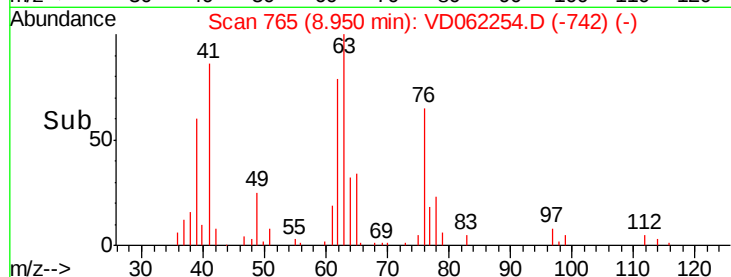
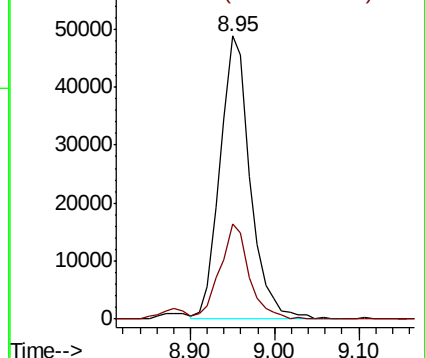
63 100

65 33.7 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 22.586 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

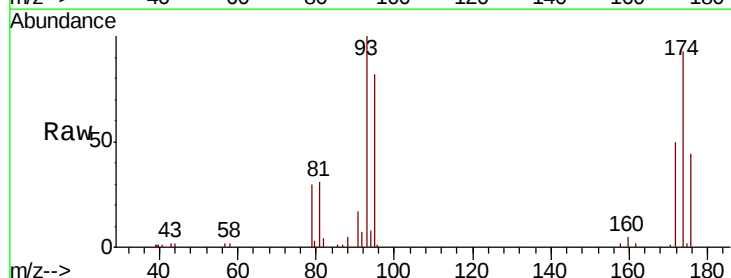
Tgt Ion: 93 Resp: 105049

Ion Ratio Lower Upper

93 100

95 81.9 64.8 97.2

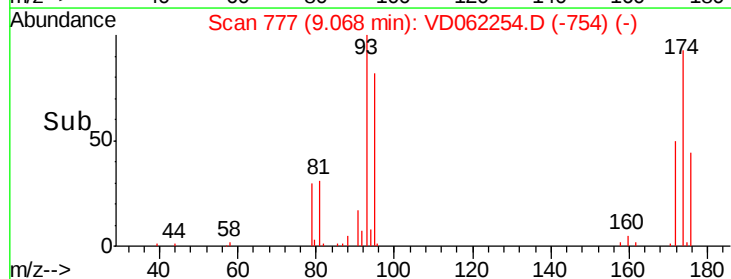
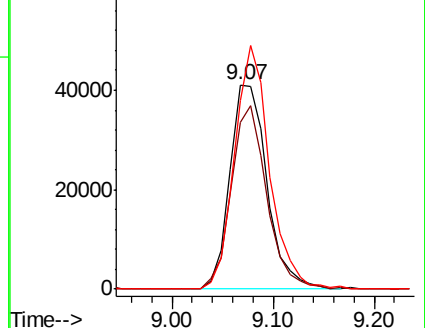
174 92.8 79.3 118.9



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): VDC





#47

Bromodichloromethane

Concen: 23.590 ug/l

RT: 9.39 min Scan# 810

Delta R.T. 0.04 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

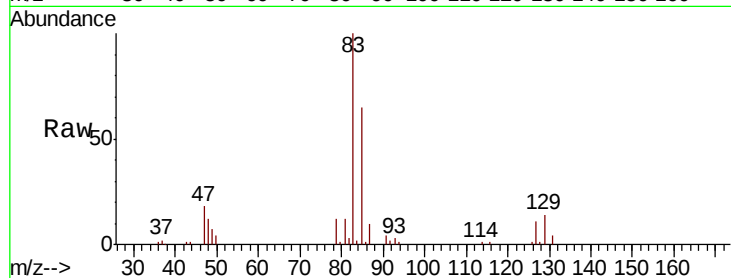
Tot Ion: 83 Resp: 268375

Ion Ratio Lower Upper

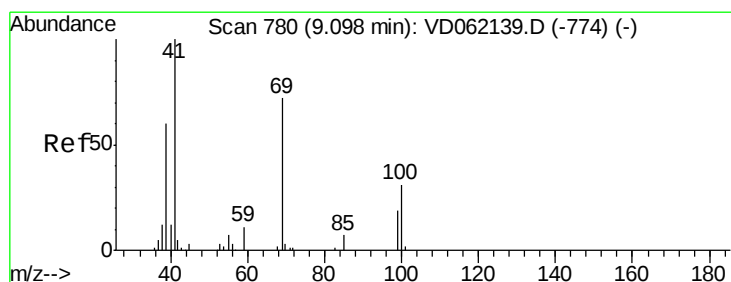
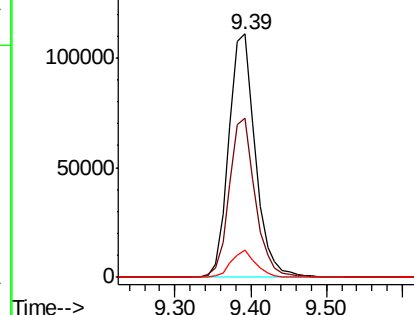
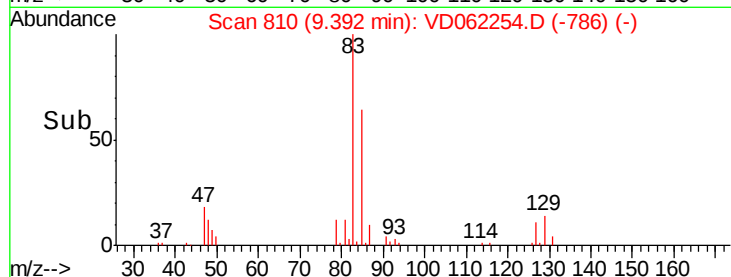
83 100

85 65.1 50.9 76.3

127 11.1 8.1 12.1



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



#48

Methyl methacrylate

Concen: 23.818 ug/l

RT: 9.14 min Scan# 784

Delta R.T. 0.04 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

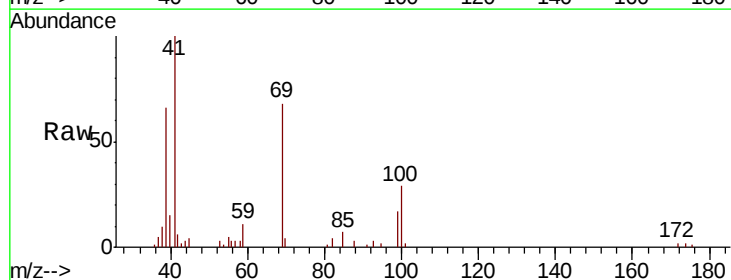
Tgt Ion: 41 Resp: 90358

Ion Ratio Lower Upper

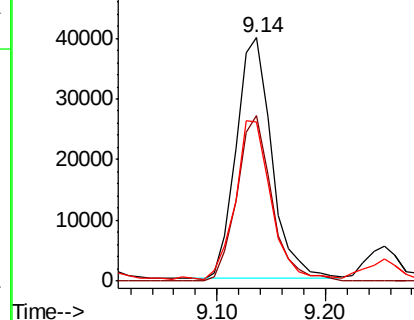
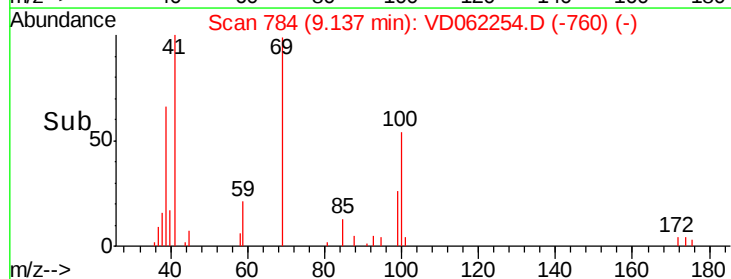
41 100

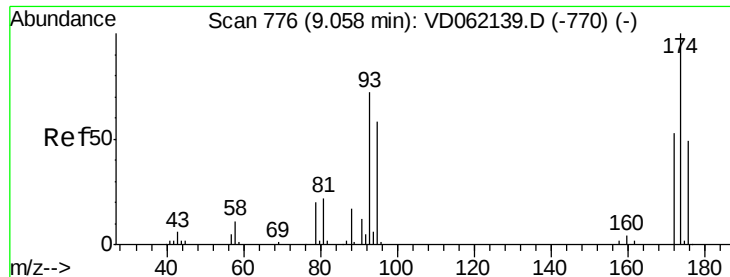
69 68.2 64.2 96.2

39 65.5 46.8 70.2



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

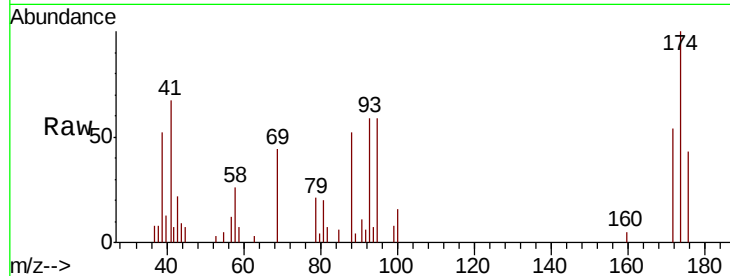




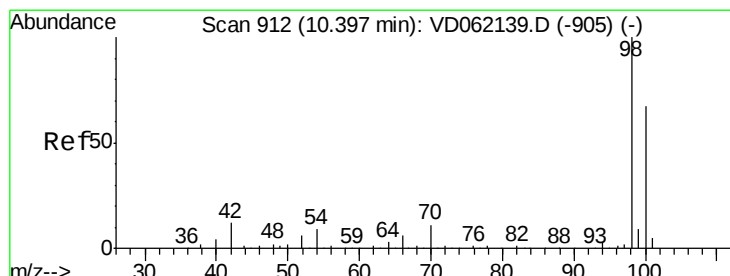
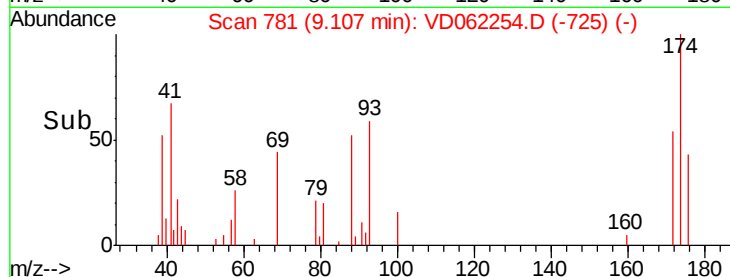
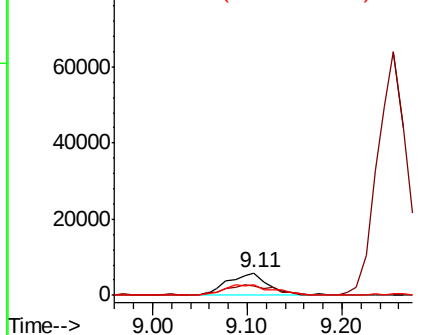
#49
1,4-Dioxane
Concen: 428.662 ug/l
RT: 9.11 min Scan# 781
Delta R.T. 0.05 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 88 Resp: 17546
Ion Ratio Lower Upper
88 100
43 42.8 23.4 35.0#
58 49.4 44.0 66.0

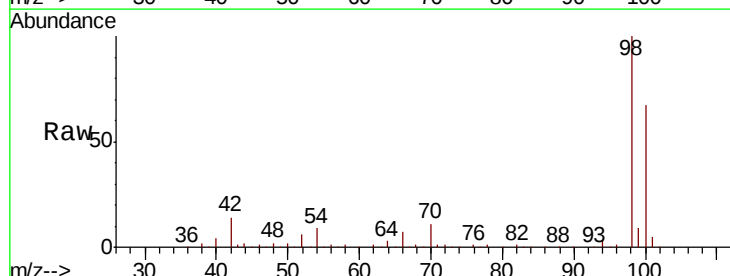


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

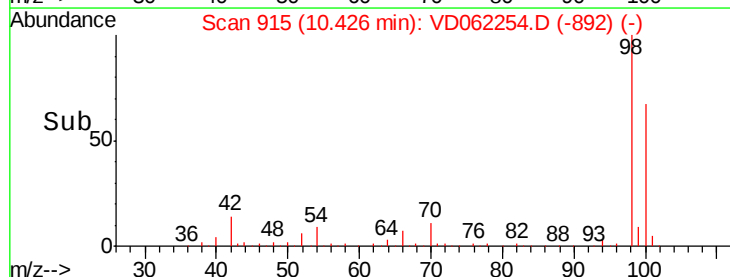
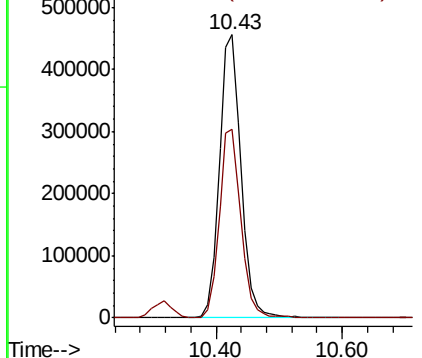


#50
Toluene-d8
Concen: 43.507 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 98 Resp: 1087040
Ion Ratio Lower Upper
98 100
100 66.7 53.8 80.8



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

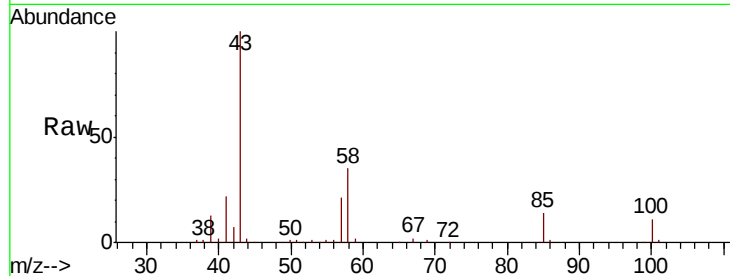




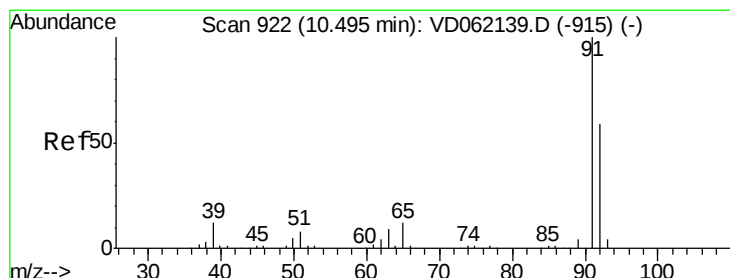
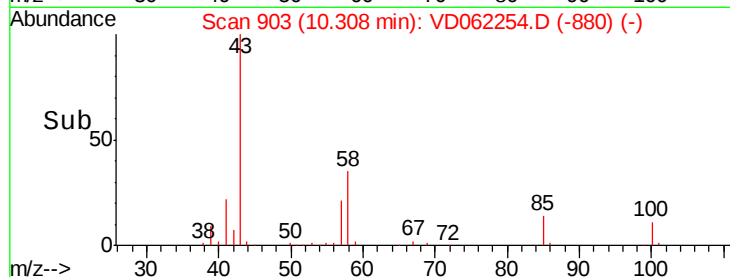
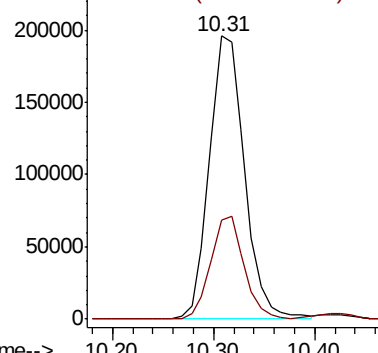
#51
4-Methyl-2-Pentanone
Concen: 120.183 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 43 Resp: 475808
Ion Ratio Lower Upper
43 100
58 35.0 30.4 45.6

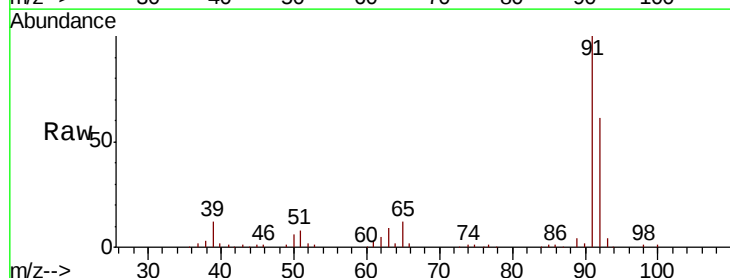


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

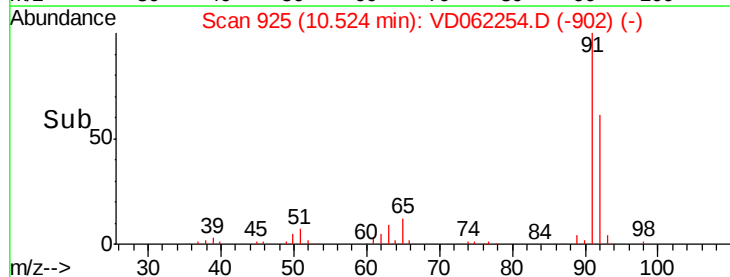
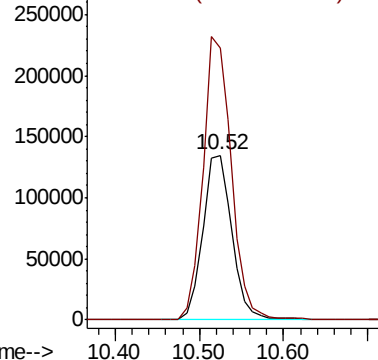


#52
Toluene
Concen: 21.460 ug/l
RT: 10.52 min Scan# 925
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 92 Resp: 322877
Ion Ratio Lower Upper
92 100
91 164.7 136.6 204.8



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

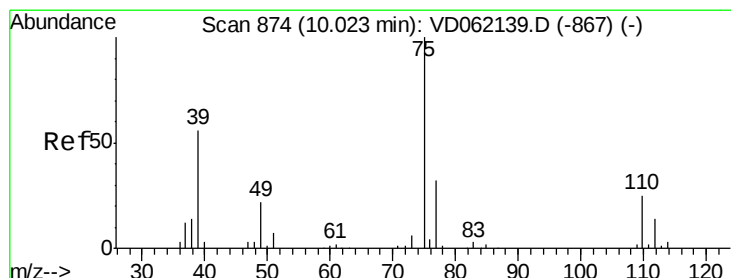
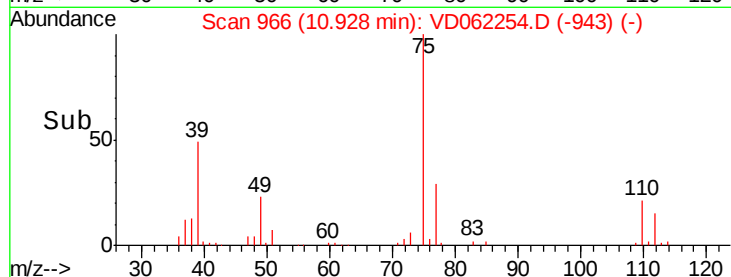
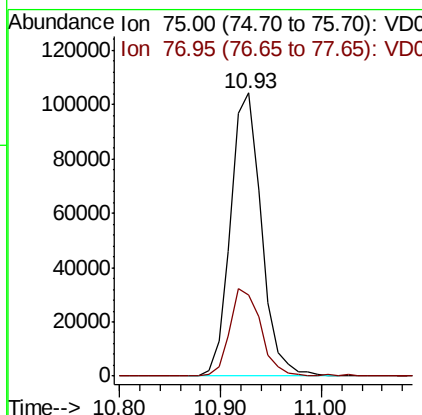
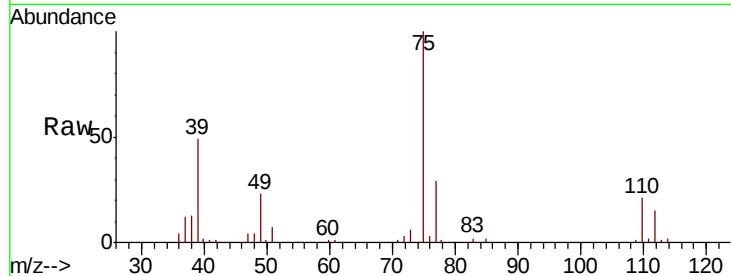




#53
 t-1,3-Dichloropropene
 Concen: 22.459 ug/l
 RT: 10.93 min Scan# 966
 Delta R.T. 0.03 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

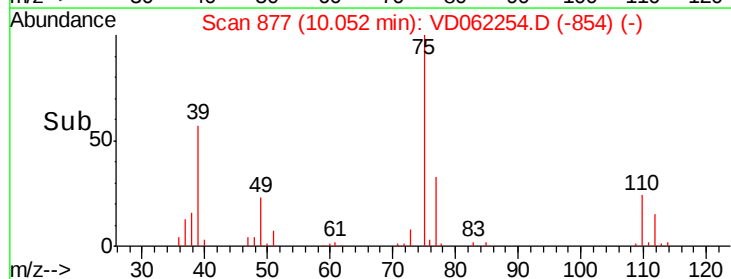
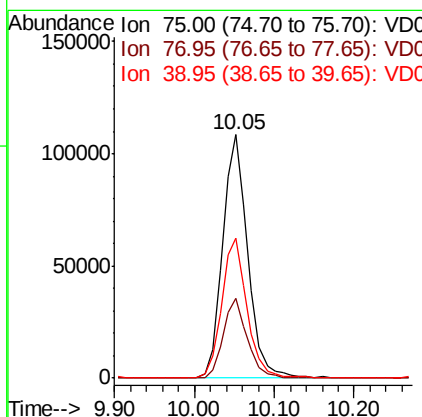
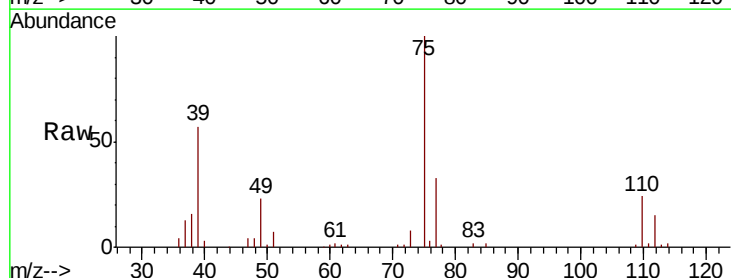
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

Tot Ion: 75 Resp: 220833
 Ion Ratio Lower Upper
 75 100
 77 28.7 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 22.378 ug/l
 RT: 10.05 min Scan# 877
 Delta R.T. 0.03 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion: 75 Resp: 240047
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.5 38.3
 39 57.3 39.4 59.2

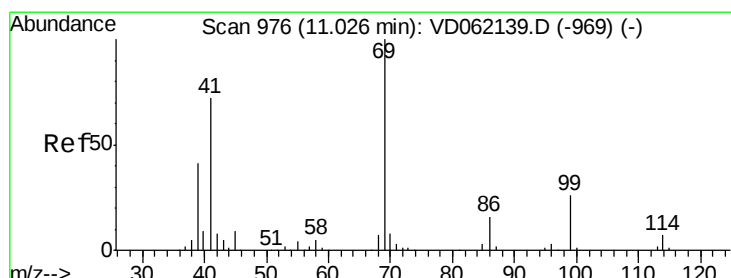
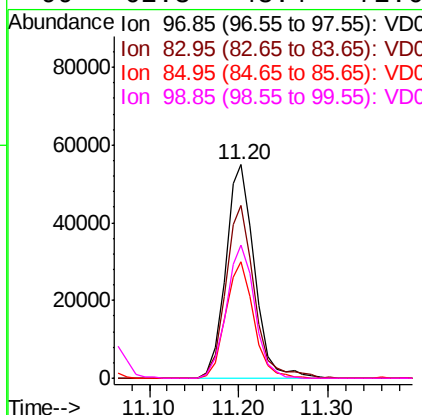
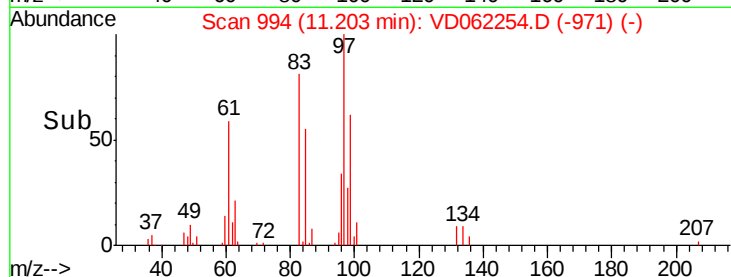
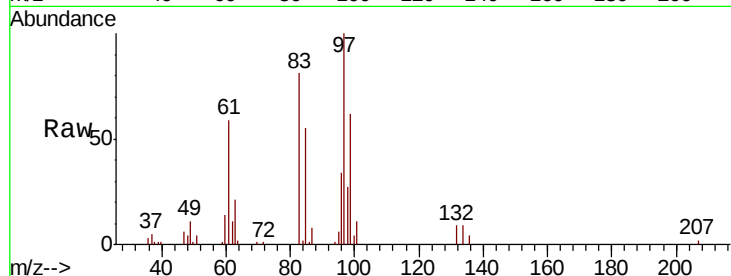




#55
 1,1,2-Trichloroethane
 Concen: 23.327 ug/l
 RT: 11.20 min Scan# 994
 Delta R.T. 0.03 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

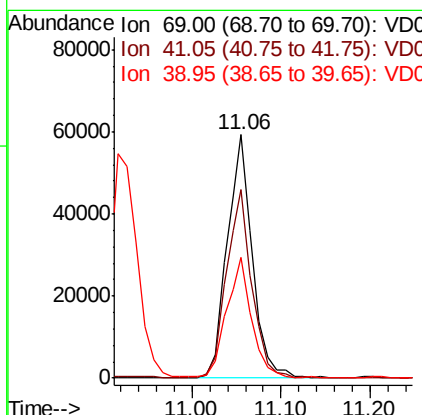
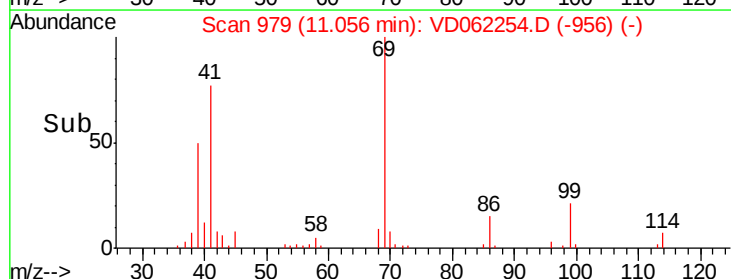
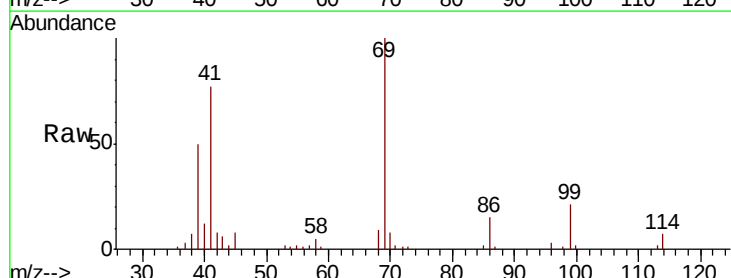
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

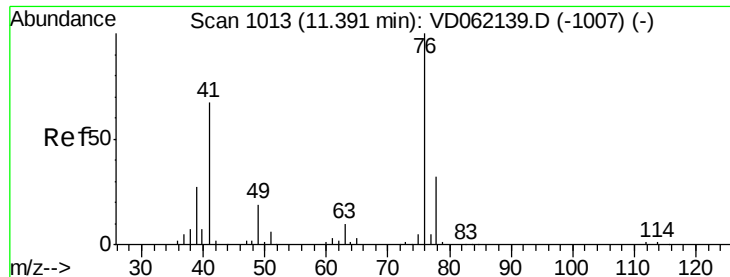
Tot Ion:	97	Resp:	124178
Ion	Ratio	Lower	Upper
97	100		
83	81.1	65.7	98.5
85	54.8	45.6	68.4
99	62.3	48.4	72.6



#56
 Ethyl methacrylate
 Concen: 21.155 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. 0.03 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion:	69	Resp:	117024
Ion	Ratio	Lower	Upper
69	100		
41	77.3	56.3	84.5
39	49.7	29.4	44.2#





#57

1,3-Dichloropropane

Concen: 22.350 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. 0.03 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

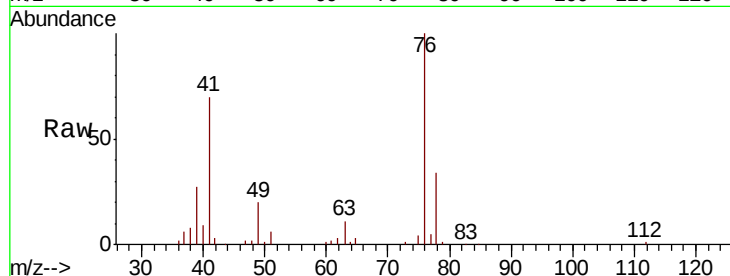
VD0512SBS01

Tot Ion: 76 Resp: 179746

Ion Ratio Lower Upper

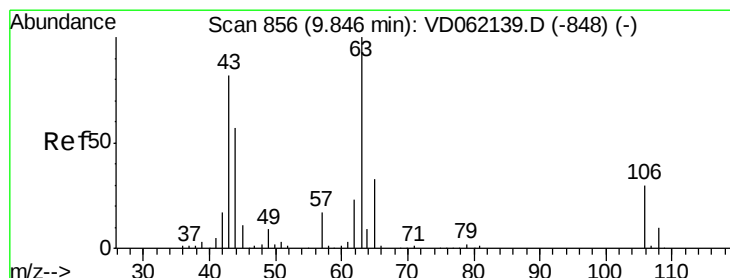
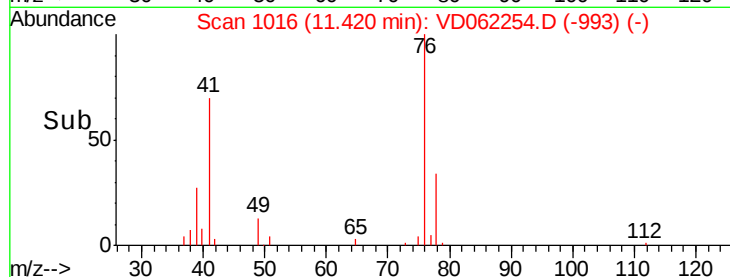
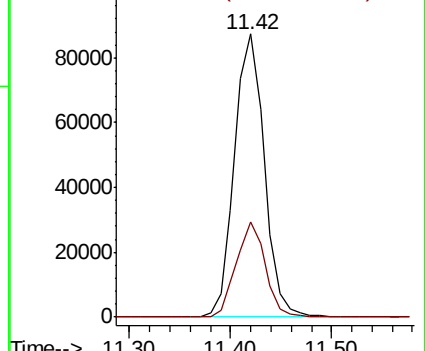
76 100

78 33.6 26.2 39.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 109.694 ug/l

RT: 9.86 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD062254.D

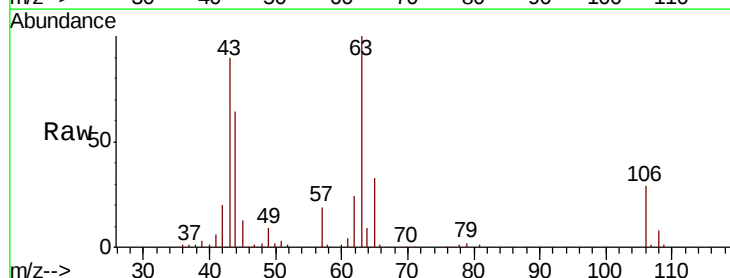
Acq: 12 May 2019 13:02

Tgt Ion: 63 Resp: 331454

Ion Ratio Lower Upper

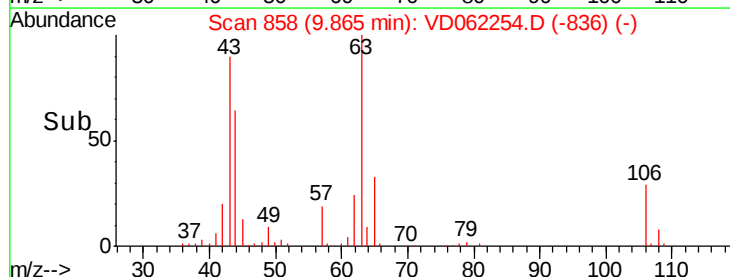
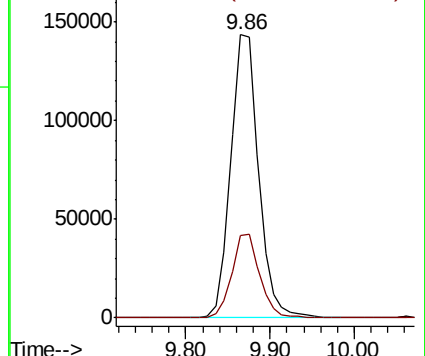
63 100

106 29.1 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

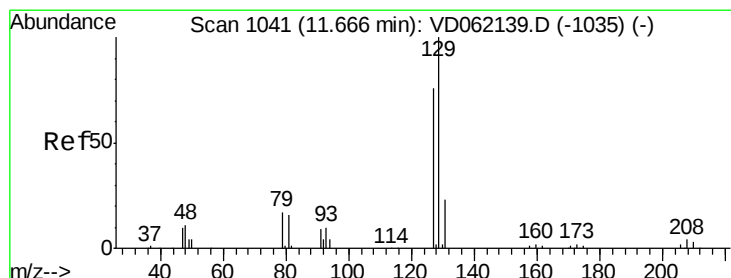
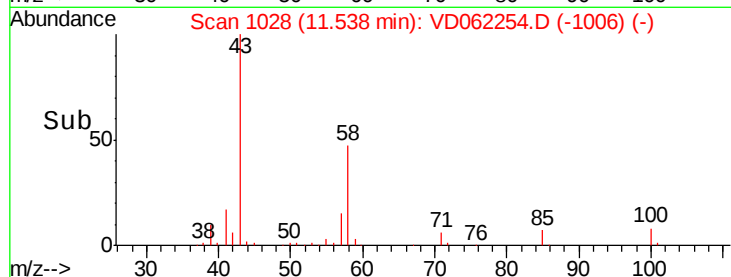
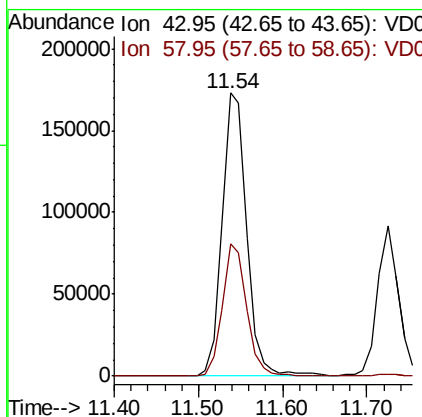
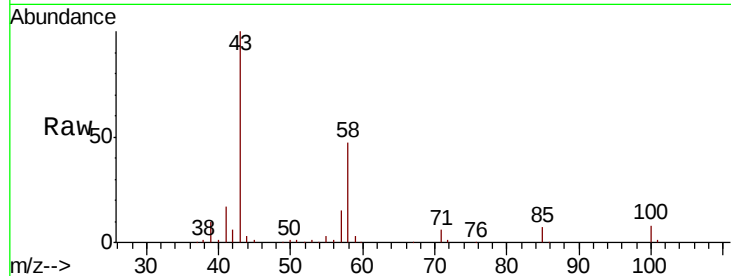




#59
2-Hexanone
Concen: 119.345 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

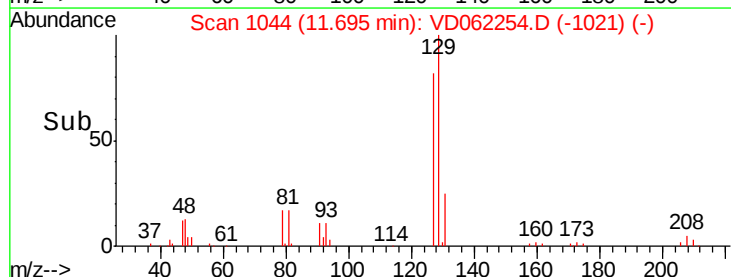
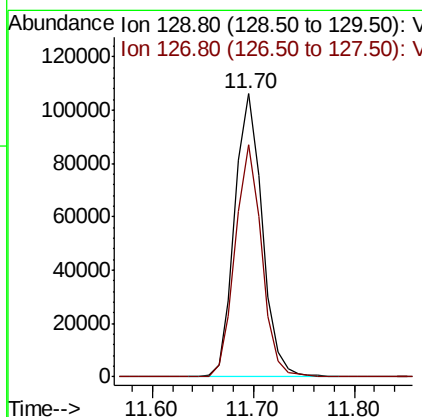
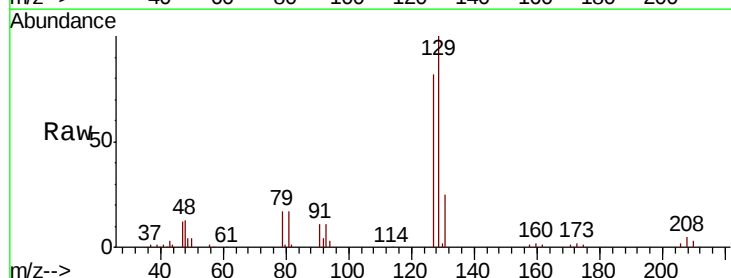
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 43 Resp: 348246
Ion Ratio Lower Upper
43 100
58 46.7 25.4 76.4



#60
Dibromochloromethane
Concen: 21.898 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.03 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 129 Resp: 201458
Ion Ratio Lower Upper
129 100
127 82.0 38.0 113.9





#61

1,2-Dibromoethane

Concen: 21.590 ug/l

RT: 11.81 min Scan# 1056

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

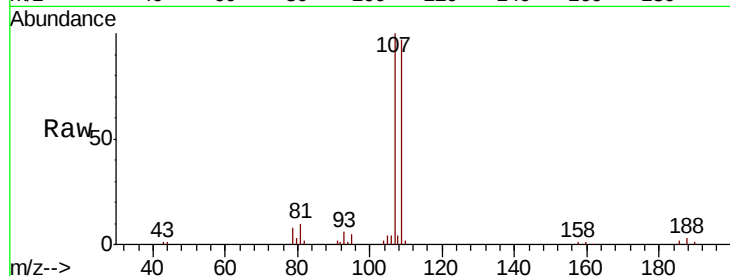
VD0512SBS01

Tot Ion:107 Resp: 139732

Ion Ratio Lower Upper

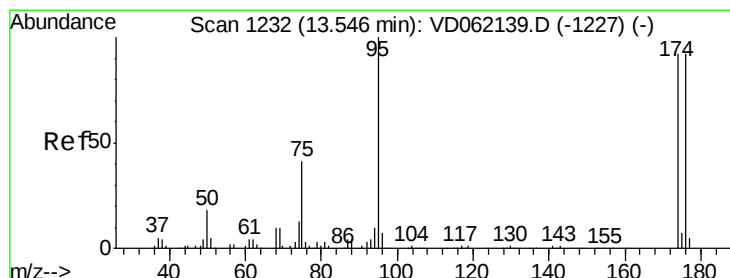
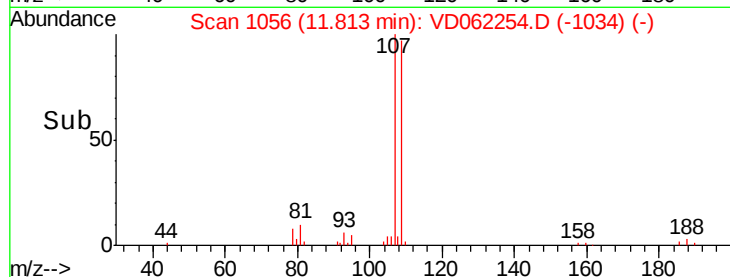
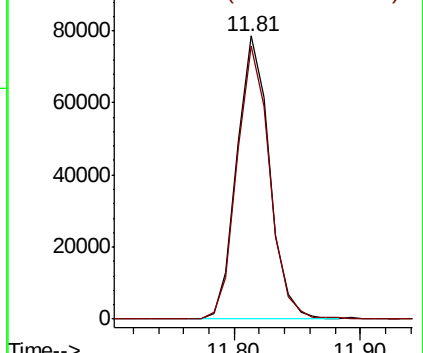
107 100

109 96.6 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 48.035 ug/l

RT: 13.56 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

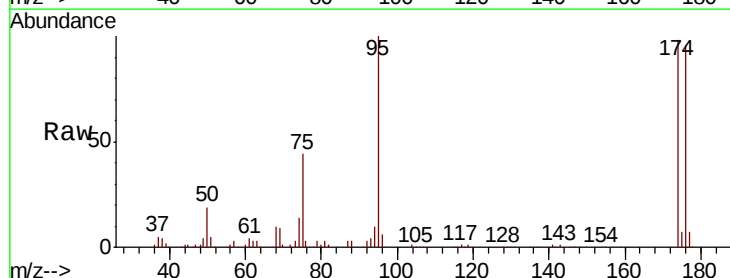
Tgt Ion: 95 Resp: 481939

Ion Ratio Lower Upper

95 100

174 97.8 0.0 181.8

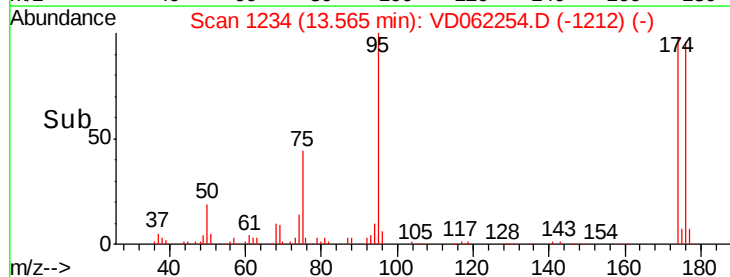
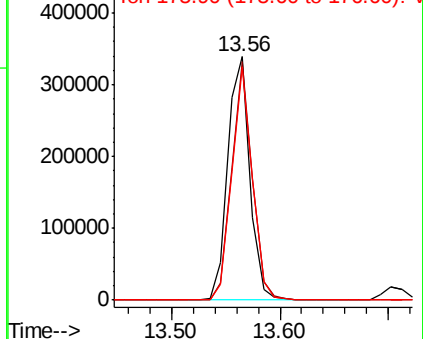
176 95.9 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

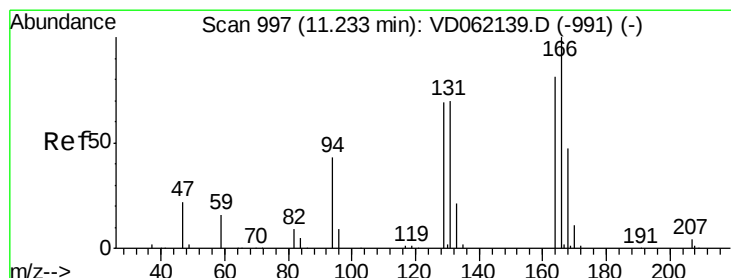
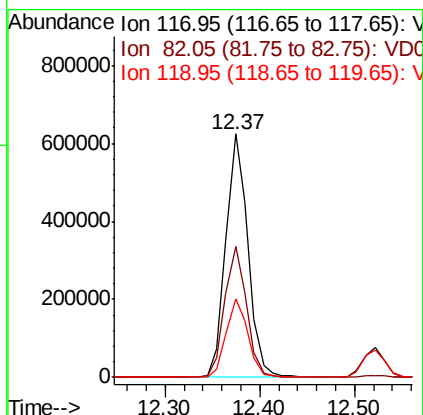
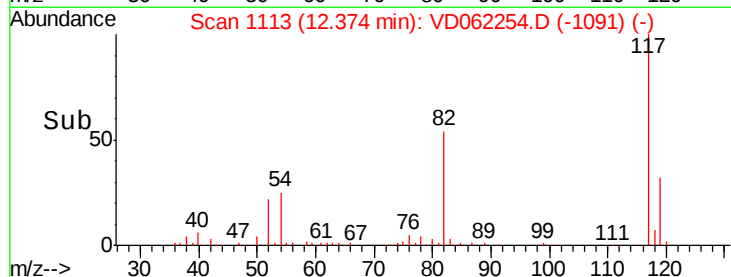
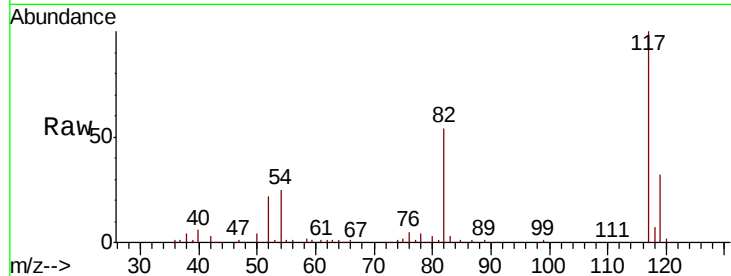




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

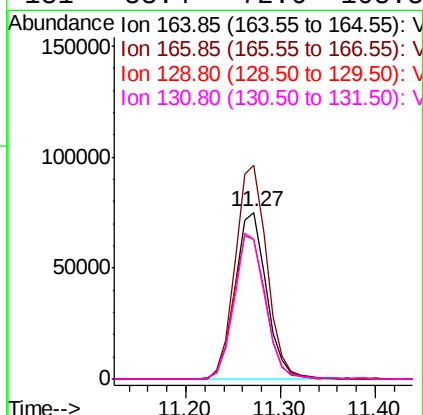
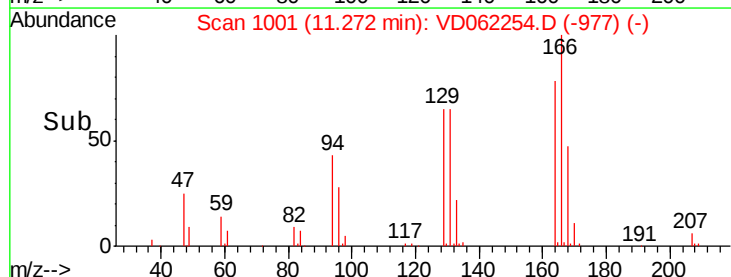
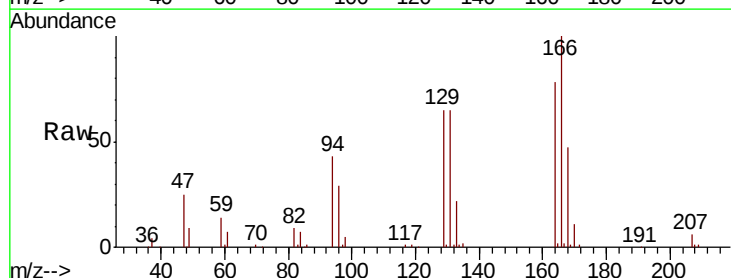
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

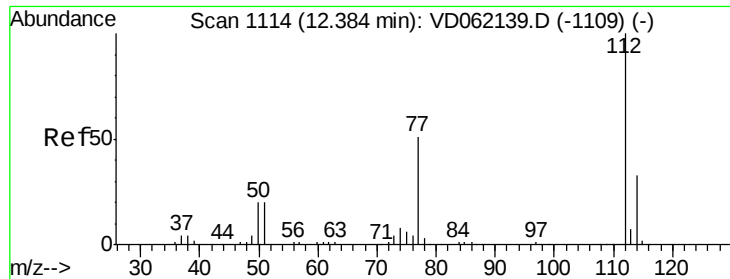
Tot Ion:117 Resp: 1006047
Ion Ratio Lower Upper
117 100
82 53.9 36.2 54.2
119 32.1 26.2 39.4



#64
Tetrachloroethene
Concen: 21.901 ug/l
RT: 11.27 min Scan# 1001
Delta R.T. 0.04 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion:164 Resp: 172290
Ion Ratio Lower Upper
164 100
166 127.9 101.5 152.3
129 83.2 74.6 112.0
131 83.4 72.6 108.8

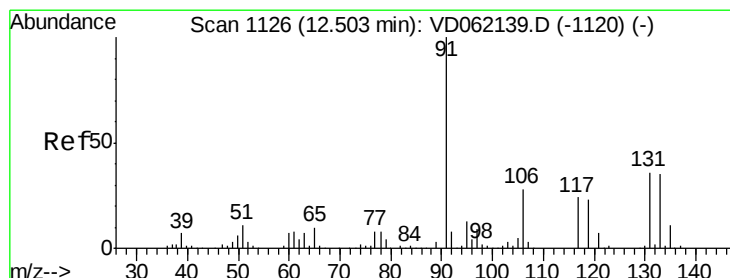
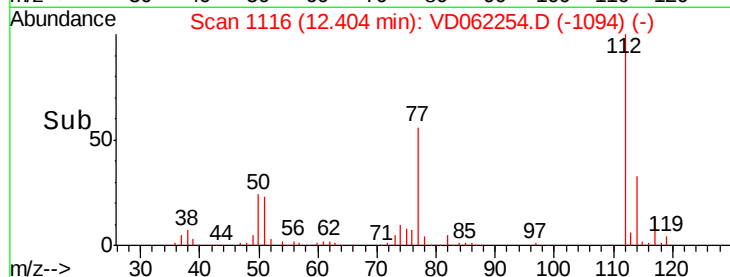
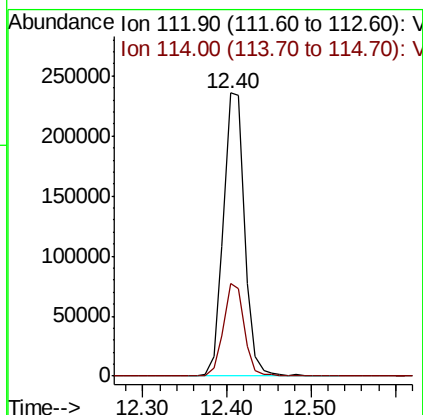
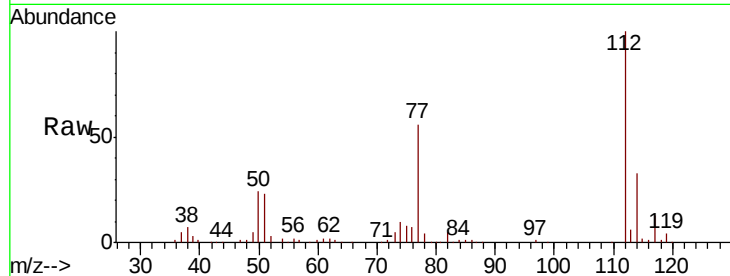




#65
Chlorobenzene
Concen: 22.034 ug/l
RT: 12.40 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

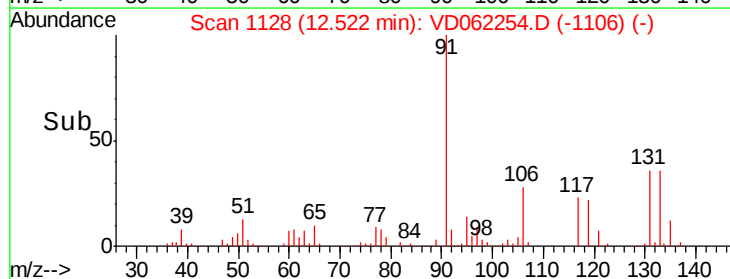
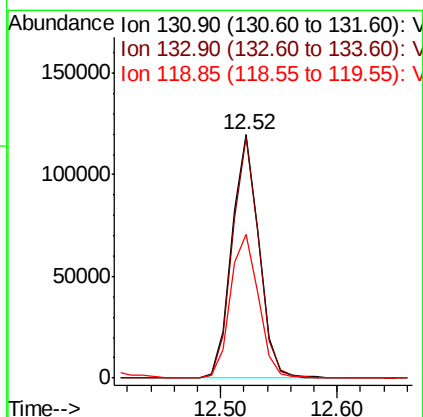
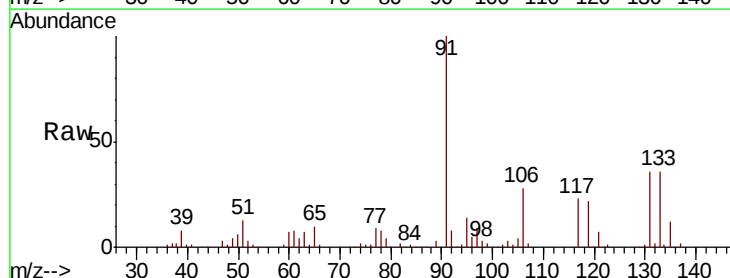
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion:112 Resp: 412872
Ion Ratio Lower Upper
112 100
114 33.0 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 23.585 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion:131 Resp: 192339
Ion Ratio Lower Upper
131 100
133 99.2 48.6 145.8
119 59.2 34.7 104.1

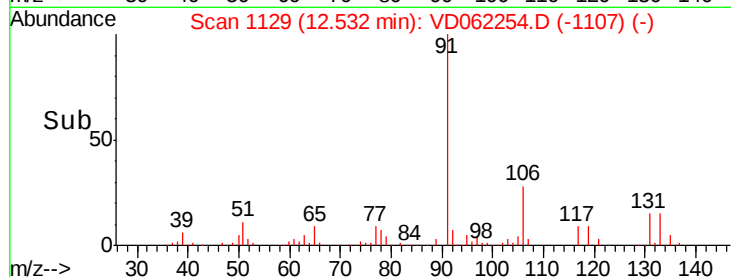
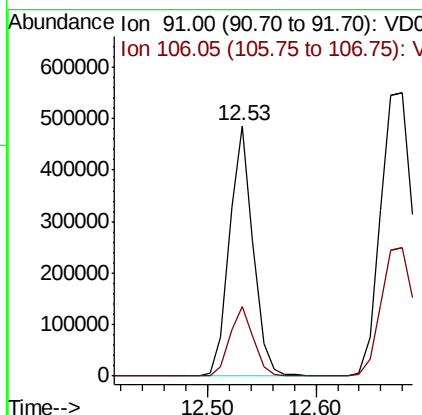
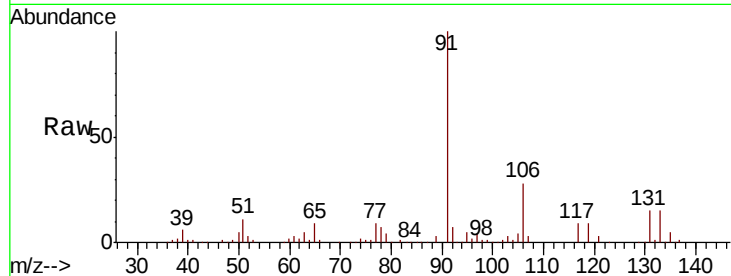




#67
Ethyl Benzene
Concen: 23.475 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

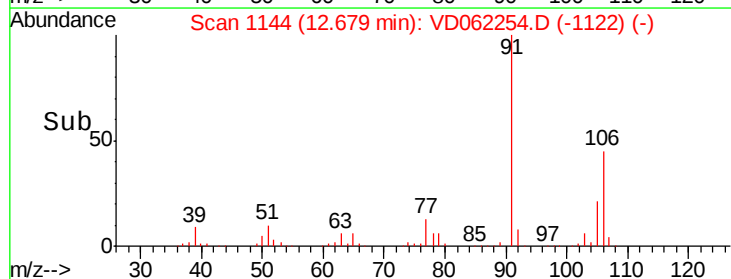
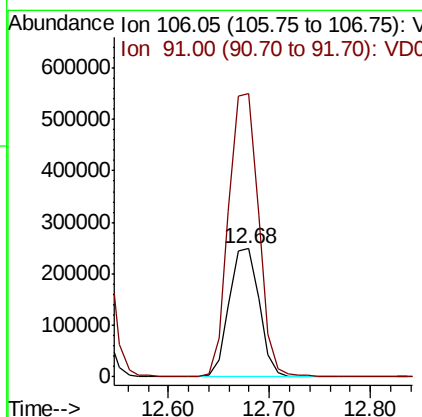
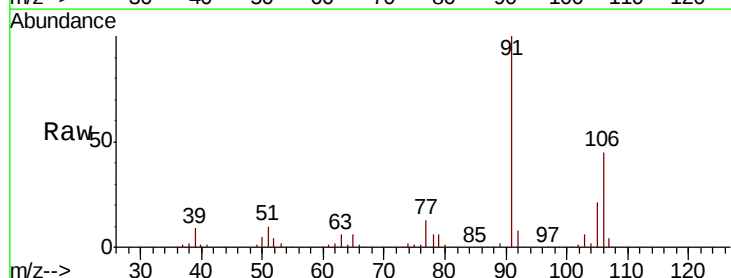
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion: 91 Resp: 736410
Ion Ratio Lower Upper
91 100
106 28.0 24.7 37.1



#68
m/p-Xylenes
Concen: 45.432 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 106 Resp: 518522
Ion Ratio Lower Upper
106 100
91 221.1 164.0 246.0

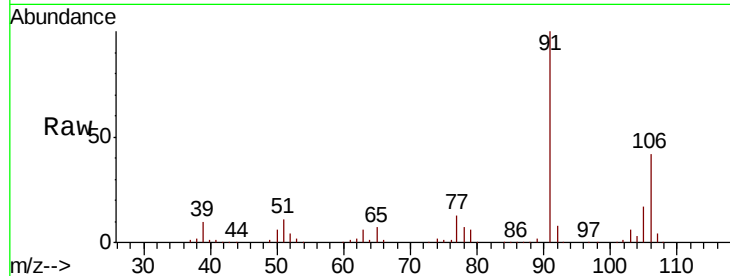




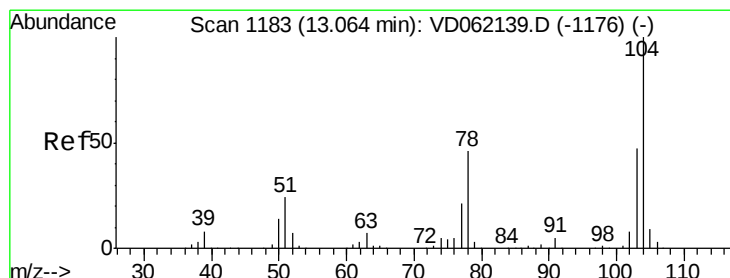
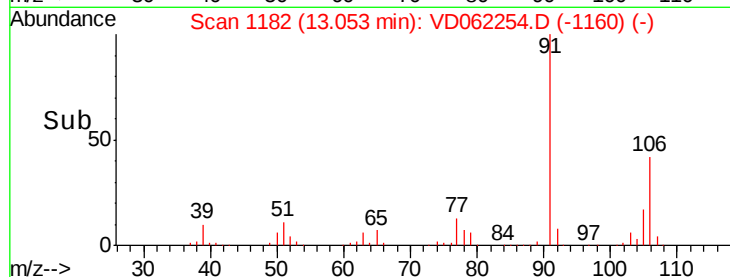
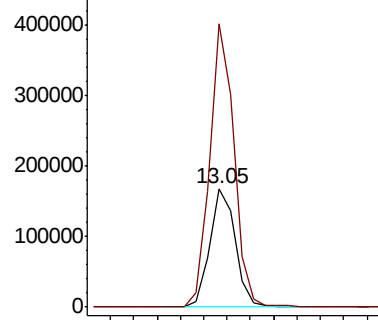
#69
o-Xylene
Concen: 23.768 ug/l
RT: 13.05 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion:106 Resp: 252199
Ion Ratio Lower Upper
106 100
91 238.1 106.7 319.9

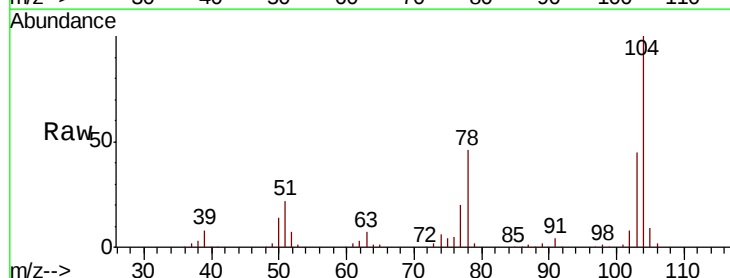


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

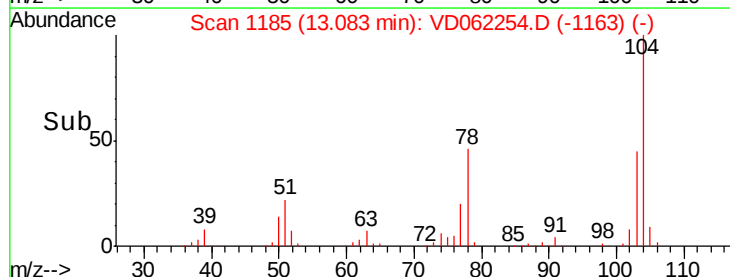
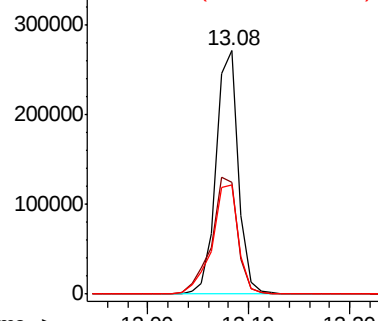


#70
Styrene
Concen: 23.365 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion:104 Resp: 419982
Ion Ratio Lower Upper
104 100
78 45.7 35.4 53.2
103 45.1 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: 21.733 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

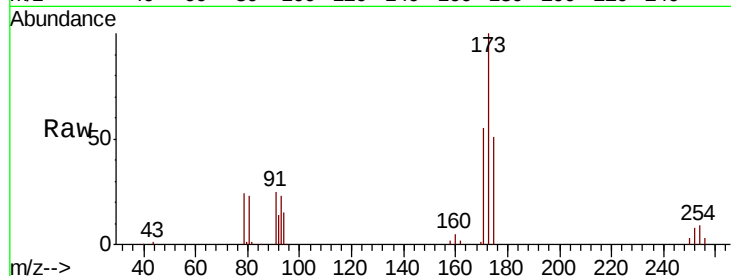
Tot Ion:173 Resp: 123305

Ion Ratio Lower Upper

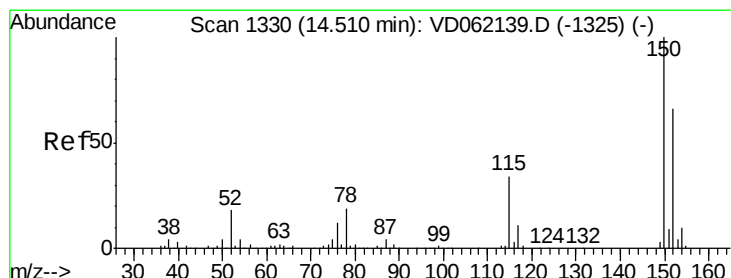
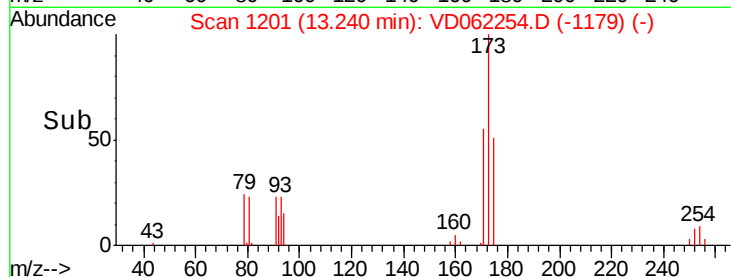
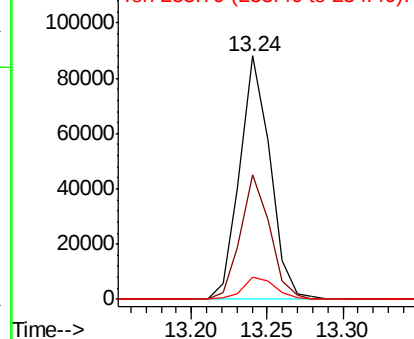
173 100

175 51.2 24.4 73.4

254 8.9 5.4 8.2#



Abundance Ion 172.80 (172.50 to 173.50): V
120000
Ion 174.80 (174.50 to 175.50): V
100000
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

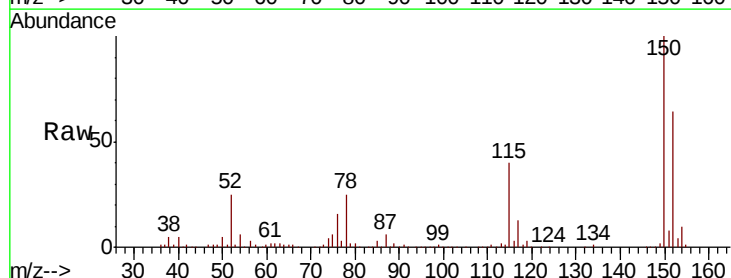
Tgt Ion:152 Resp: 539188

Ion Ratio Lower Upper

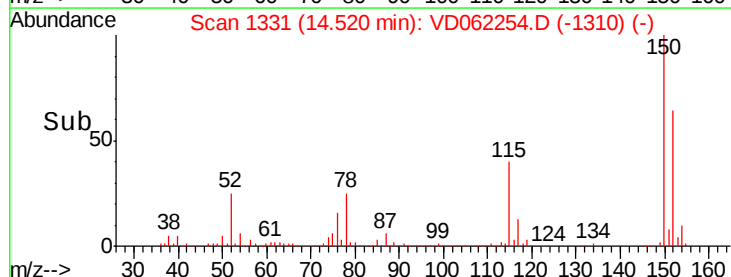
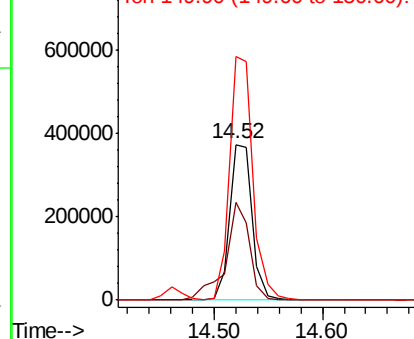
152 100

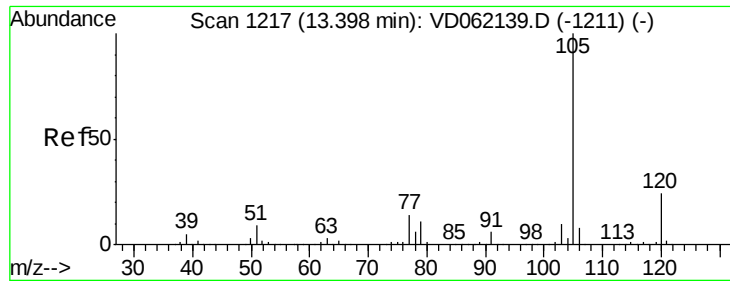
115 63.0 30.9 92.7

150 156.6 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
800000
Ion 115.00 (114.70 to 115.70): V
600000
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 23.924 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

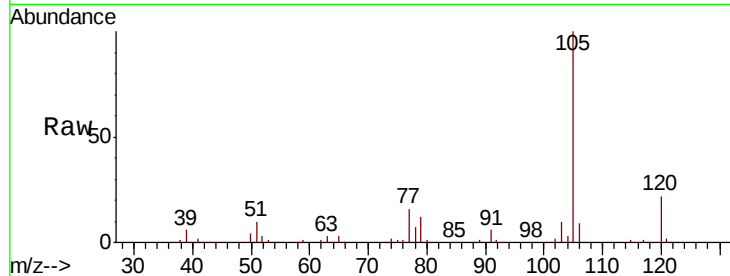
VD0512SBS01

Tot Ion:105 Resp: 773224

Ion Ratio Lower Upper

105 100

120 22.2 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

600000

500000

400000

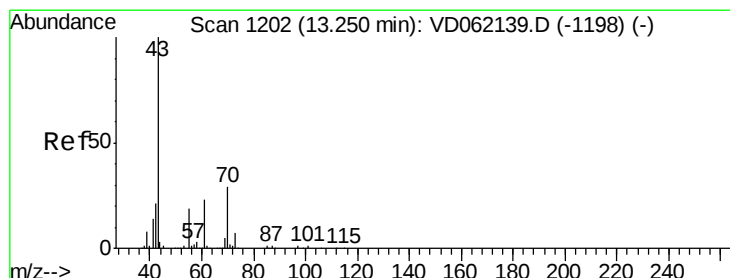
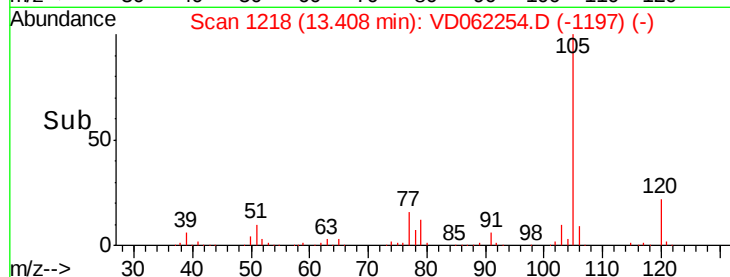
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 22.731 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Tgt Ion: 43 Resp: 192620

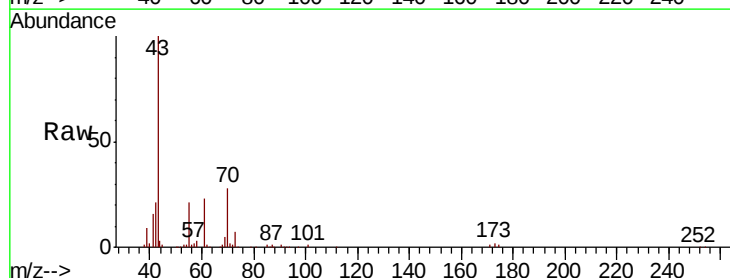
Ion Ratio Lower Upper

43 100

70 27.7 24.2 36.4

55 20.5 16.0 24.0

61 22.9 21.6 32.4



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

13.27

200000

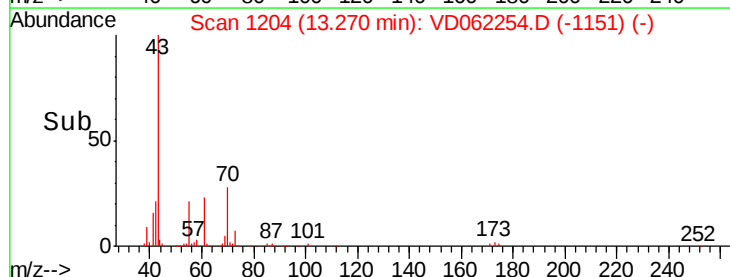
150000

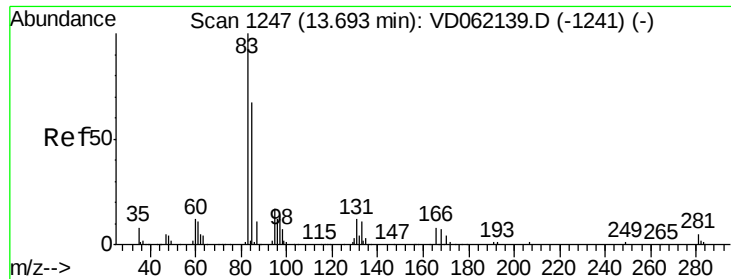
100000

50000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 22.465 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

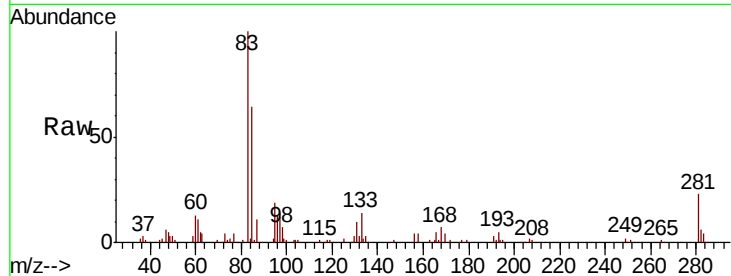
Tot Ion: 83 Resp: 137458

Ion Ratio Lower Upper

83 100

131 10.1 5.0 14.9

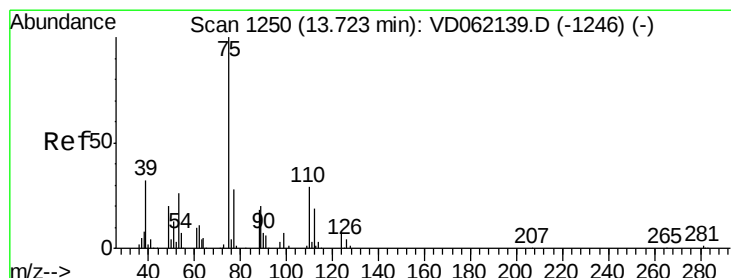
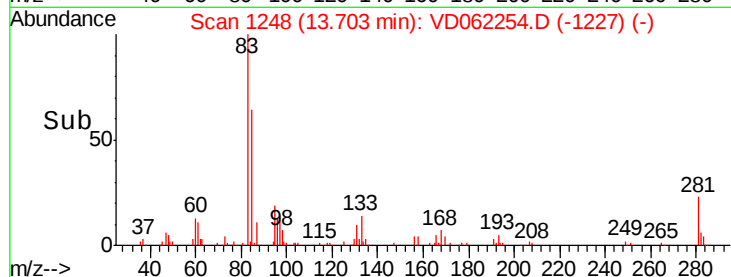
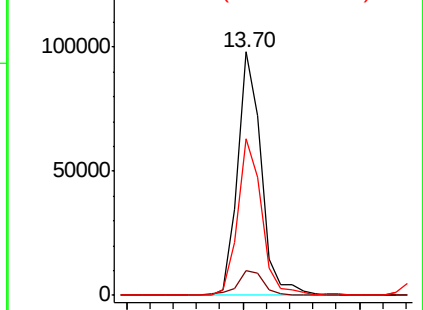
85 64.3 32.6 97.7



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: 23.945 ug/l

RT: 13.74 min Scan# 1252

Delta R.T. 0.02 min

Lab File: VD062254.D

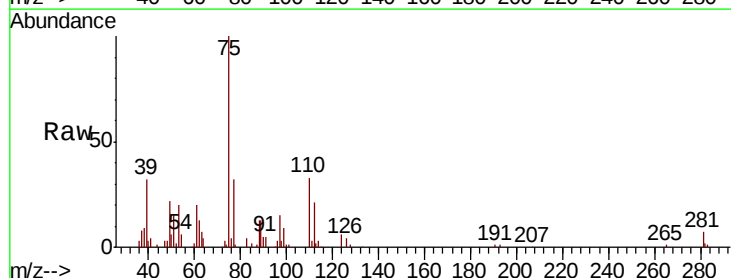
Acq: 12 May 2019 13:02

Tgt Ion: 75 Resp: 153436

Ion Ratio Lower Upper

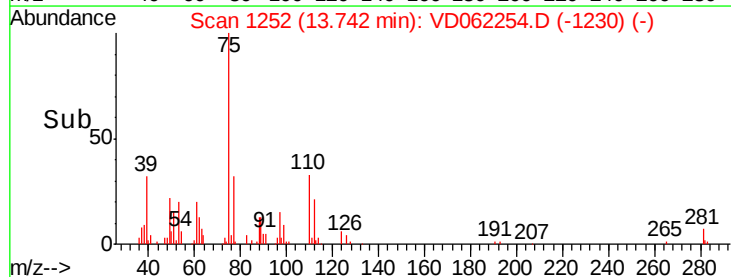
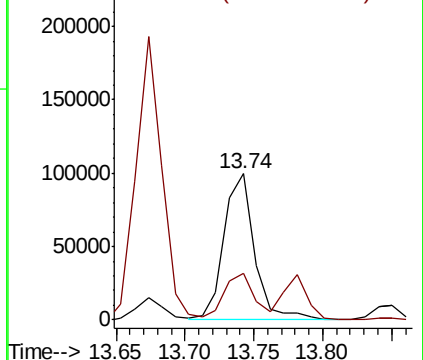
75 100

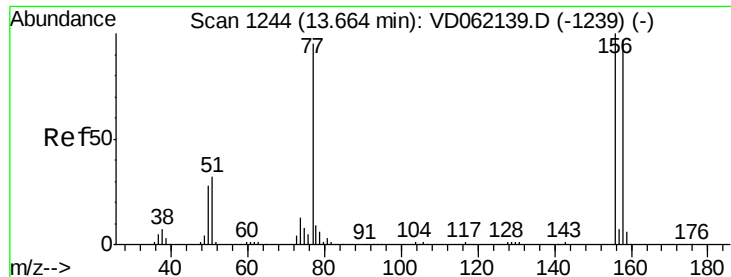
77 32.3 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.430 ug/l

RT: 13.67 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

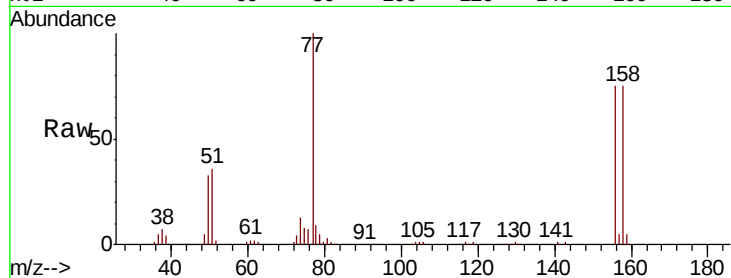
Tot Ion:156 Resp: 202941

Ion Ratio Lower Upper

156 100

77 133.5 53.1 159.4

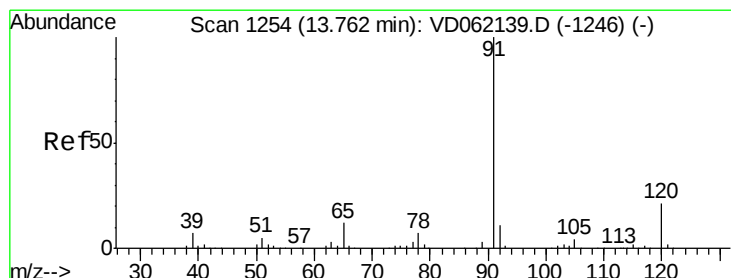
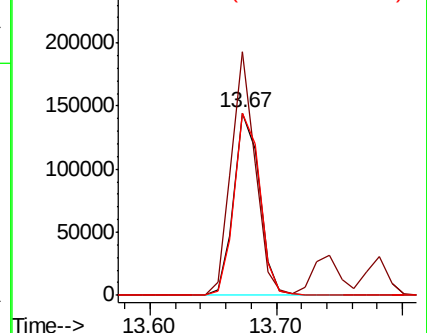
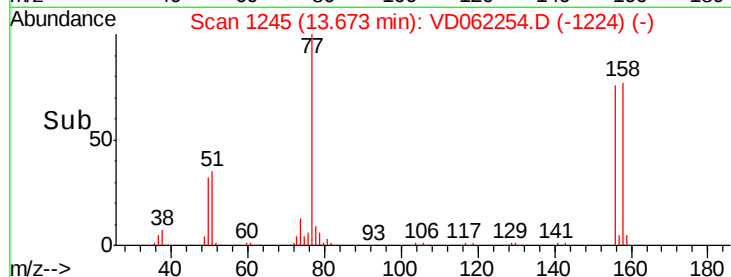
158 100.2 49.4 148.0



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: 24.250 ug/l

RT: 13.78 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD062254.D

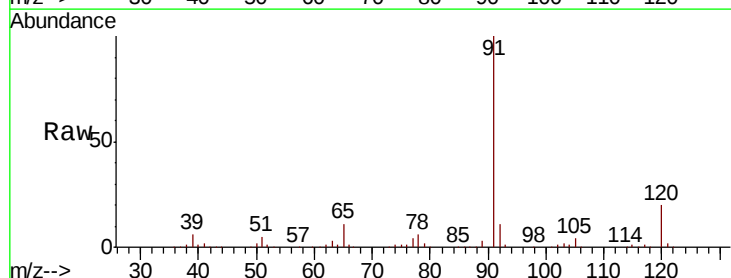
Acq: 12 May 2019 13:02

Tgt Ion: 91 Resp: 934949

Ion Ratio Lower Upper

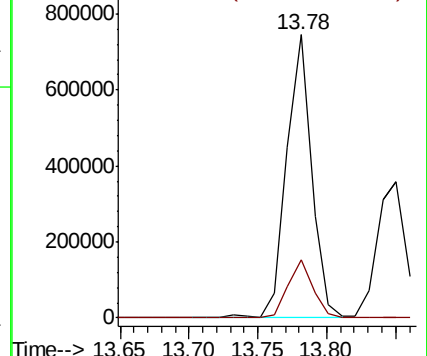
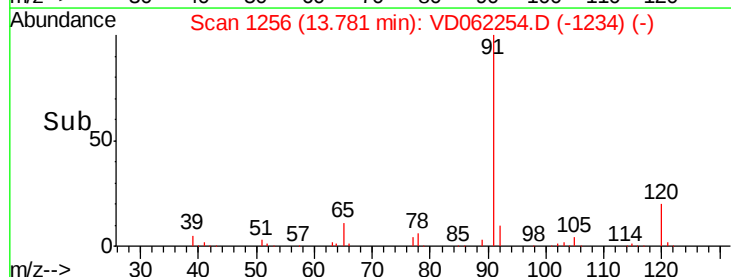
91 100

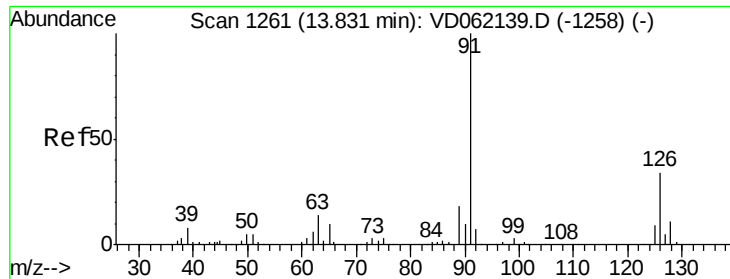
120 20.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

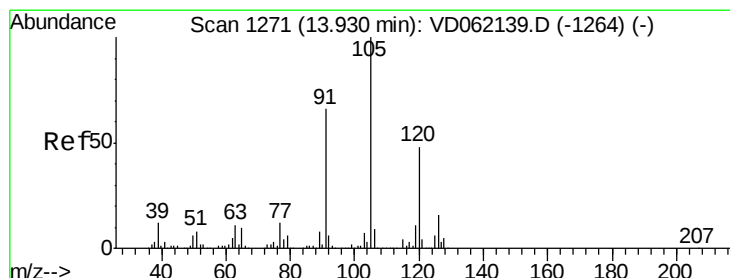
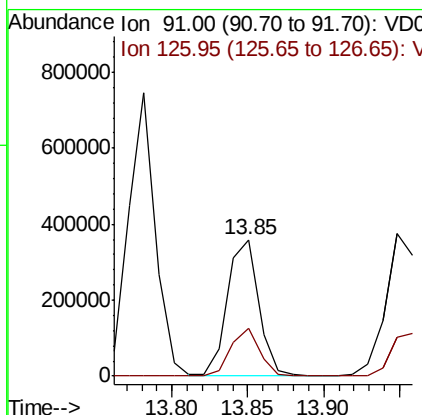
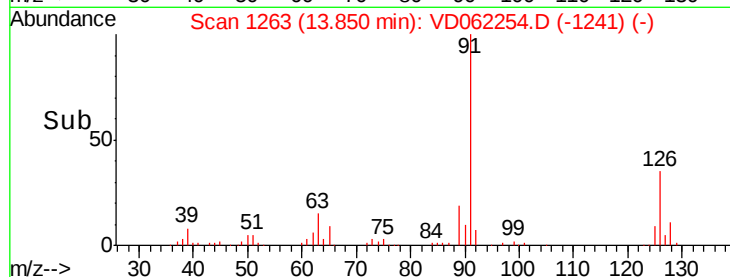
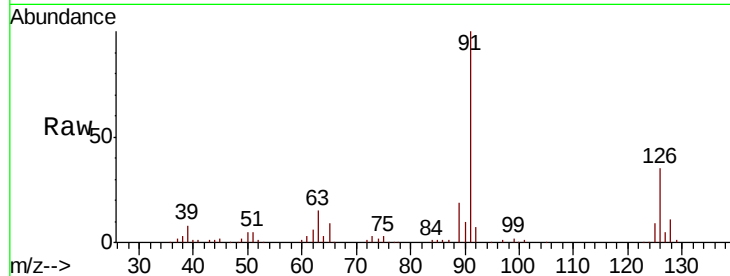




#79
 2-Chlorotoluene
 Concen: 23.181 ug/l
 RT: 13.85 min Scan# 1263
 Delta R.T. 0.02 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

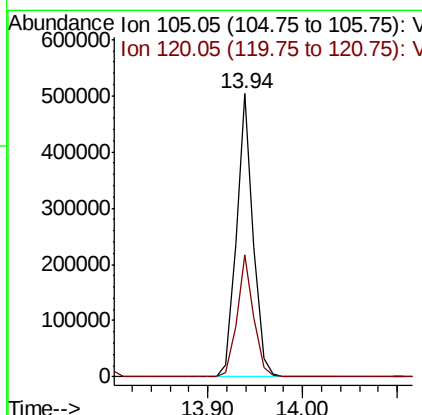
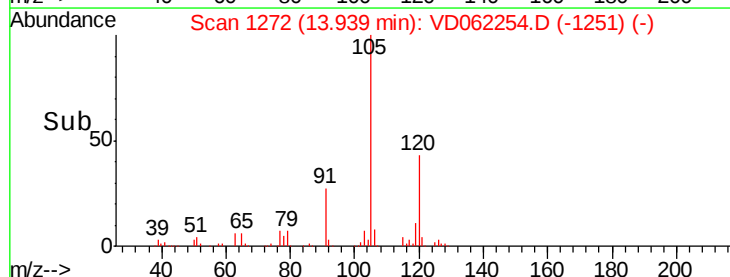
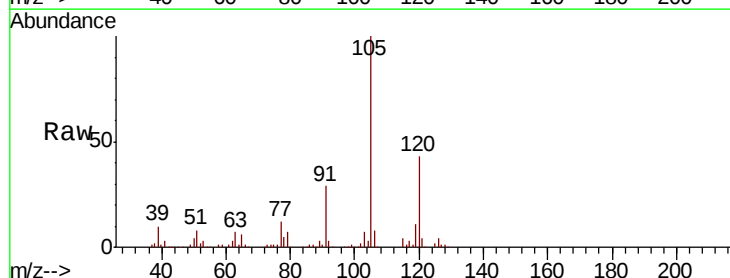
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

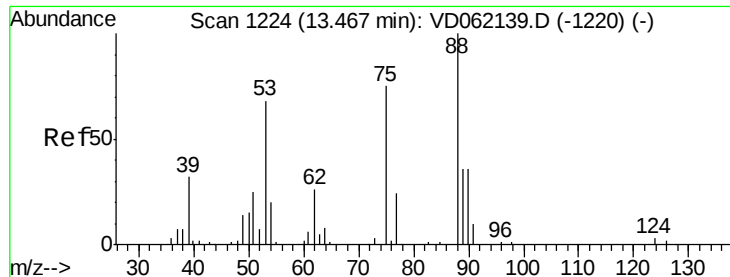
Tot Ion: 91 Resp: 511866
 Ion Ratio Lower Upper
 91 100
 126 35.2 18.6 55.8



#80
 1,3,5-Trimethylbenzene
 Concen: 22.547 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion: 105 Resp: 613650
 Ion Ratio Lower Upper
 105 100
 120 43.1 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 21.888 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

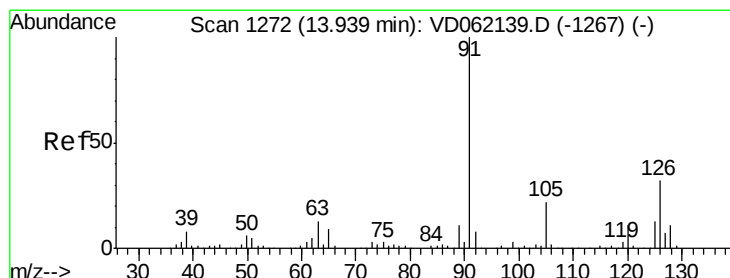
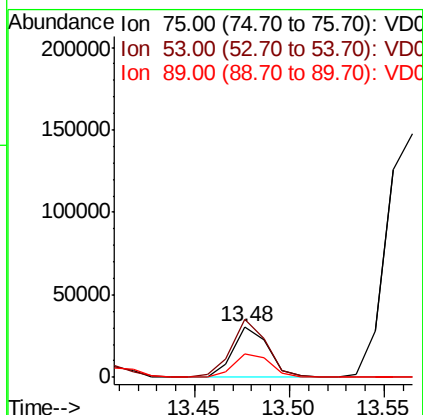
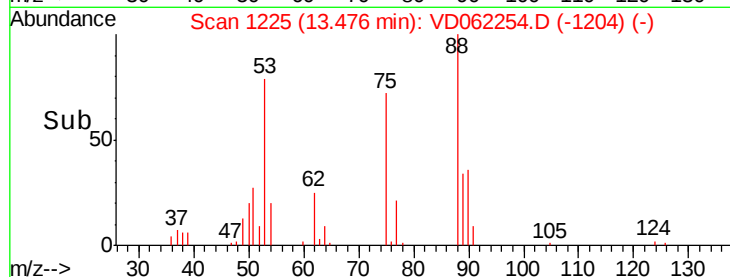
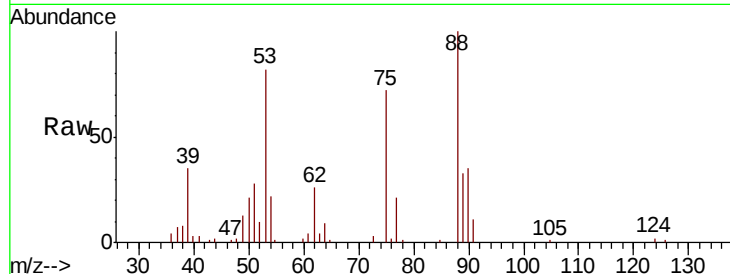
Tot Ion: 75 Resp: 39595

Ion Ratio Lower Upper

75 100

53 114.2 65.8 98.8#

89 46.7 35.0 52.6



#82

4-Chlorotoluene

Concen: 22.024 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062254.D

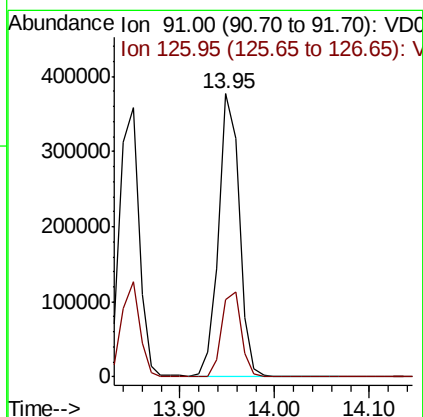
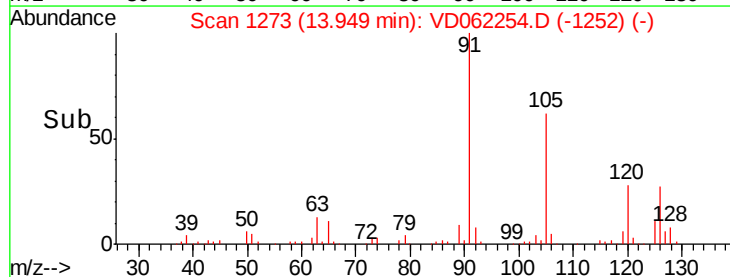
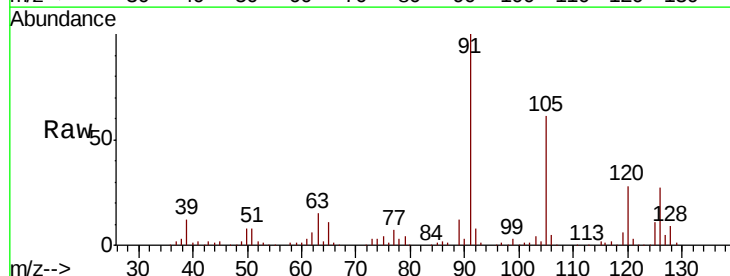
Acq: 12 May 2019 13:02

Tgt Ion: 91 Resp: 572270

Ion Ratio Lower Upper

91 100

126 27.4 19.1 57.5





#83

tert-Butylbenzene

Concen: 22.769 ug/l

RT: 14.19 min Scan# 1298

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

VD0512SBS01

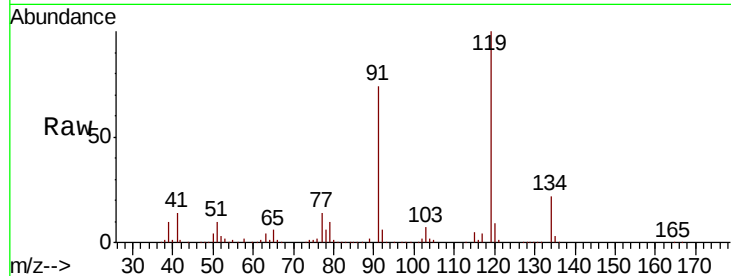
Tot Ion:119 Resp: 696531

Ion Ratio Lower Upper

119 100

91 74.4 34.2 102.6

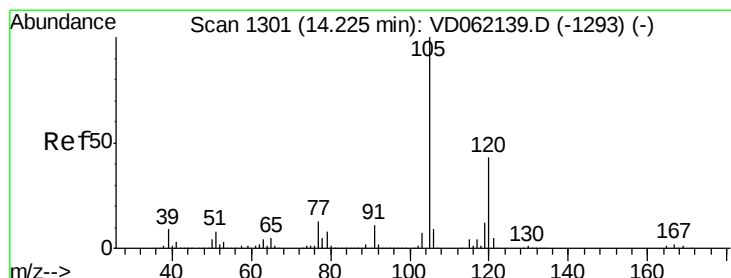
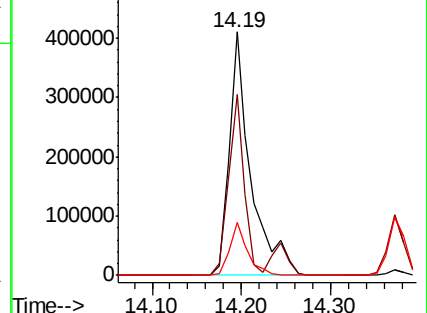
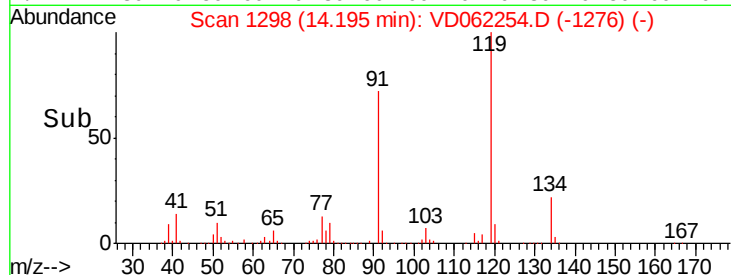
134 22.0 12.0 36.0



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 23.443 ug/l

RT: 14.24 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD062254.D

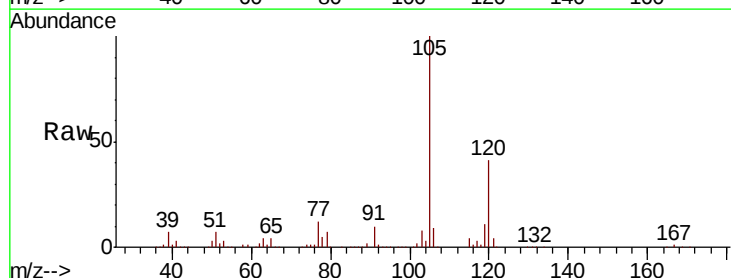
Acq: 12 May 2019 13:02

Tgt Ion:105 Resp: 640266

Ion Ratio Lower Upper

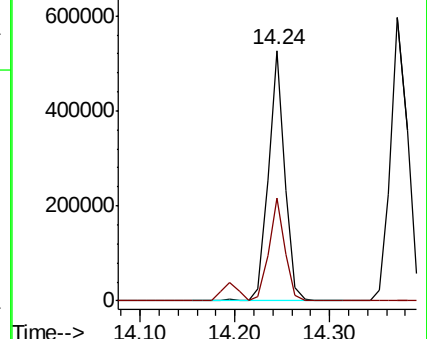
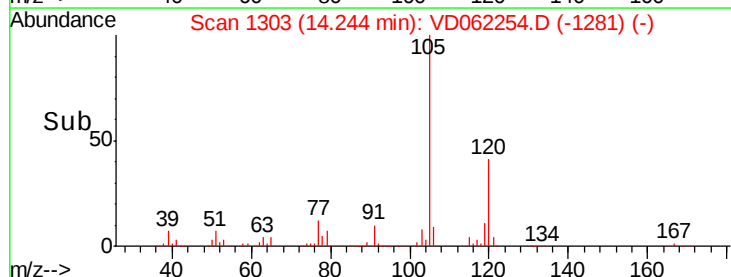
105 100

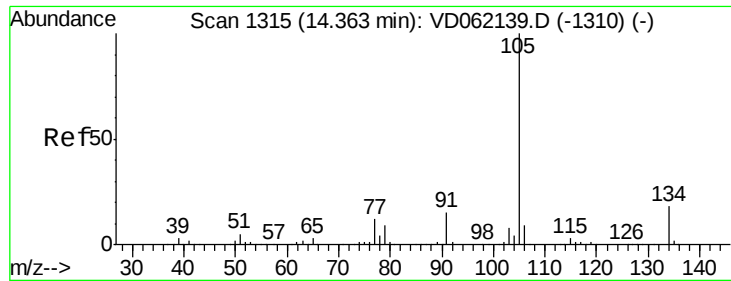
120 41.0 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 22.449 ug/l

RT: 14.37 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

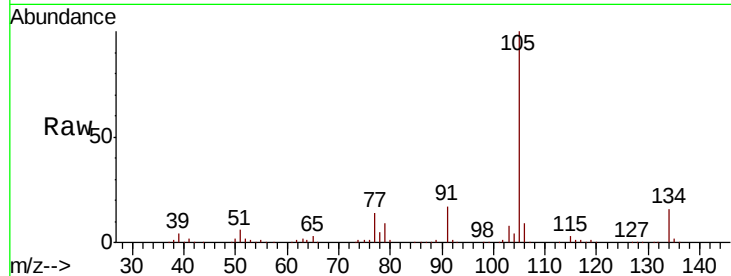
VD0512SBS01

Tot Ion:105 Resp: 752949

Ion Ratio Lower Upper

105 100

134 16.3 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

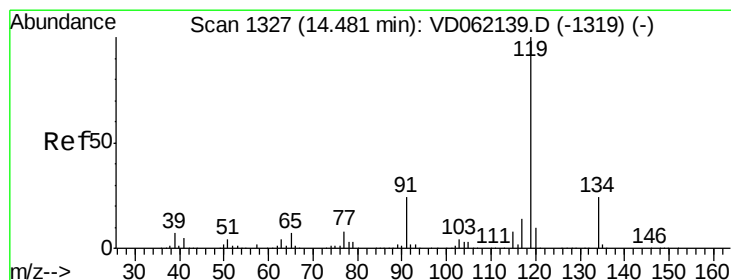
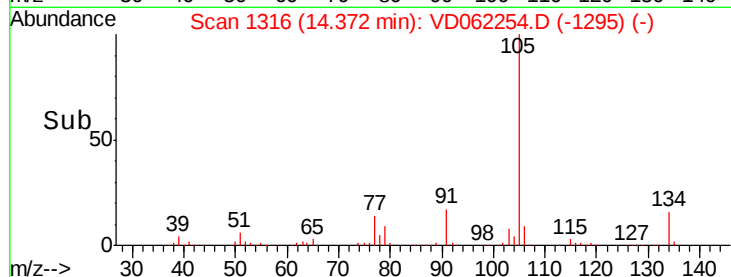
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 22.667 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. 0.02 min

Lab File: VD062254.D

Acq: 12 May 2019 13:02

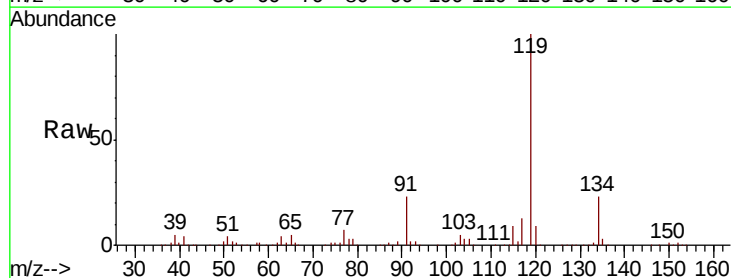
Tgt Ion:119 Resp: 679261

Ion Ratio Lower Upper

119 100

134 23.4 12.8 38.3

91 23.2 10.7 32.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.50

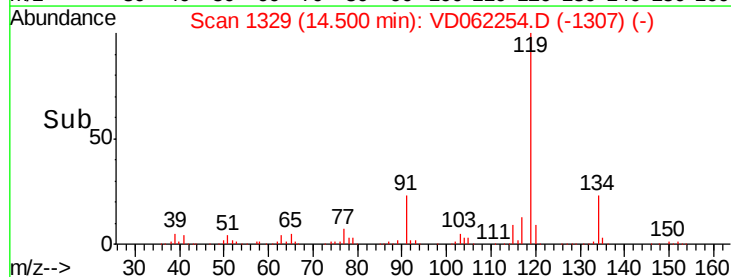
600000

400000

200000

0

Time-->

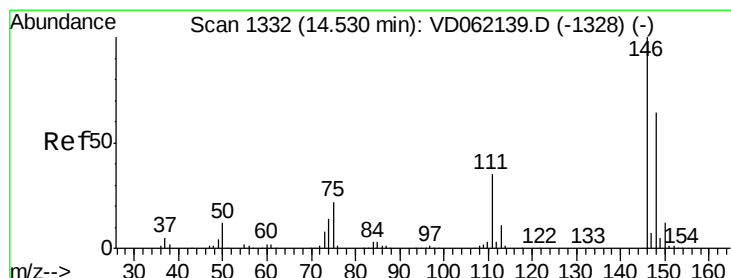
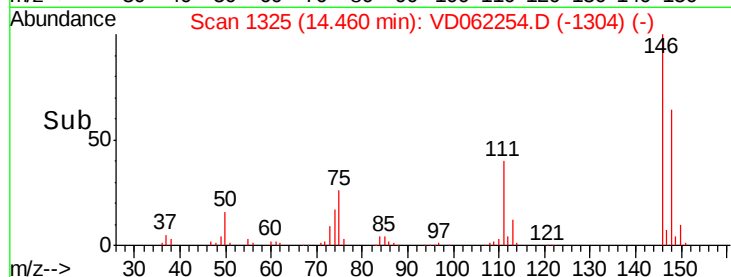
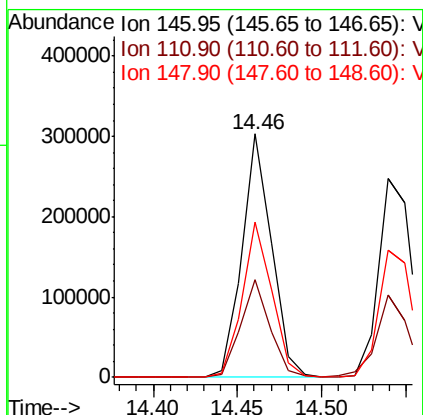
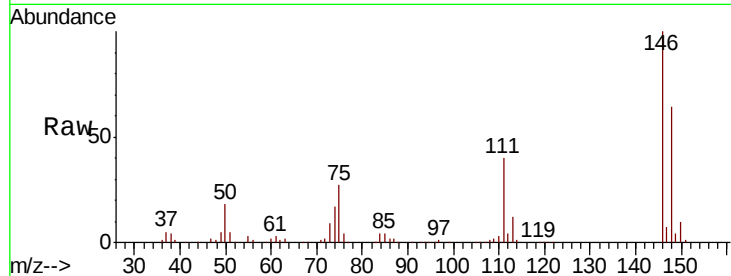




#87
 1,3-Dichlorobenzene
 Concen: 22.384 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

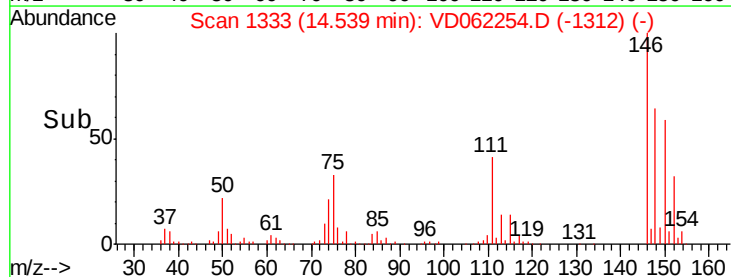
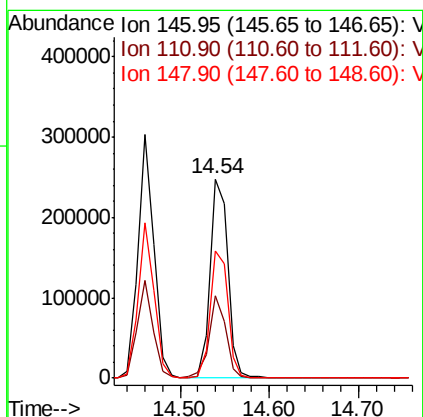
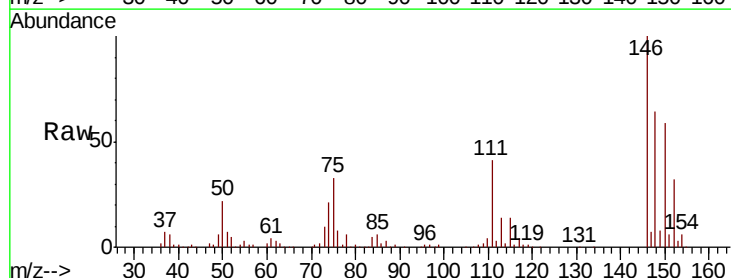
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

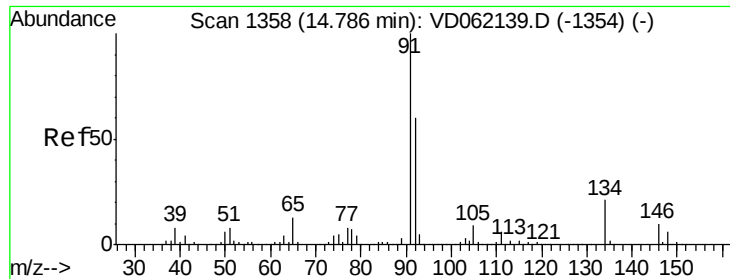
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.0	60.0
148	63.7	31.8	95.4



#88
 1,4-Dichlorobenzene
 Concen: 20.982 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.2	60.5
148	63.6	32.0	96.2

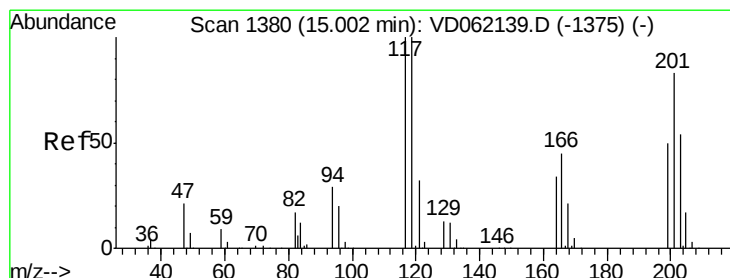
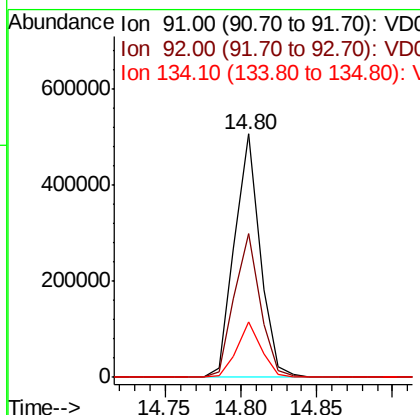
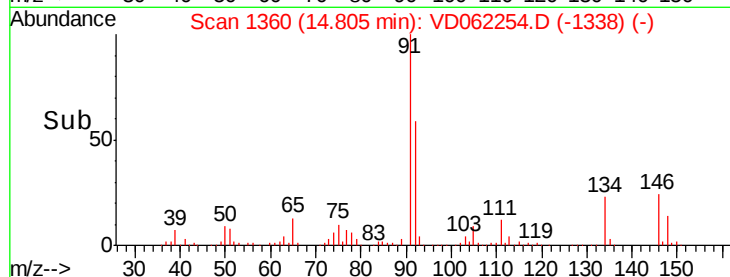
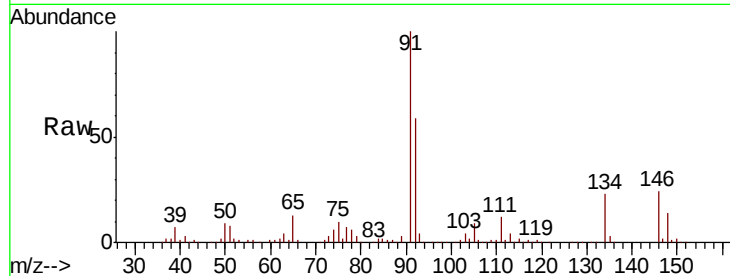




#89
n-Butylbenzene
Concen: 22.107 ug/l
RT: 14.80 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

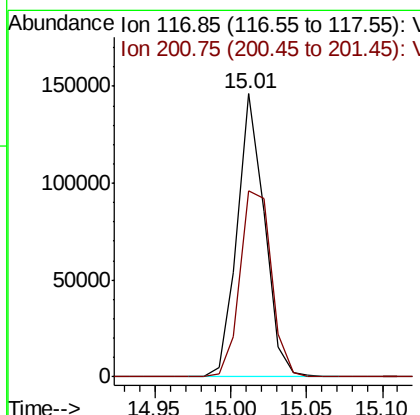
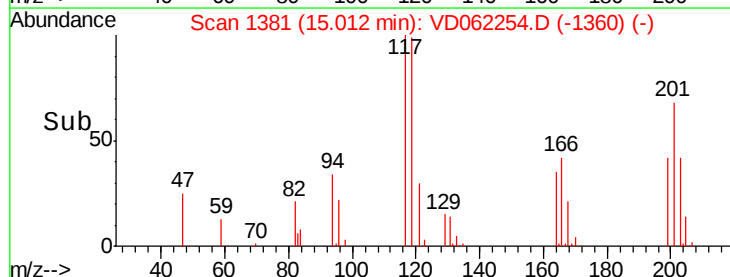
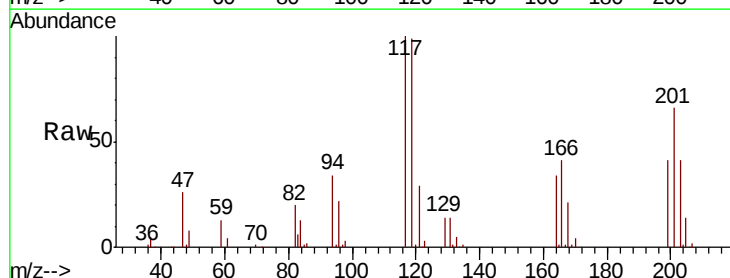
Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

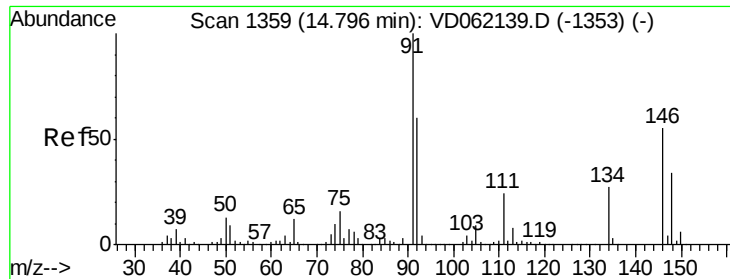
Tot Ion: 91 Resp: 594621
Ion Ratio Lower Upper
91 100
92 59.0 30.3 91.0
134 22.8 14.5 43.6



#90
Hexachloroethane
Concen: 22.381 ug/l
RT: 15.01 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion: 117 Resp: 182388
Ion Ratio Lower Upper
117 100
201 65.6 30.2 90.6

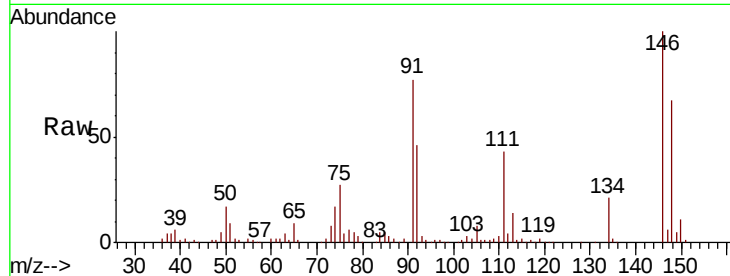




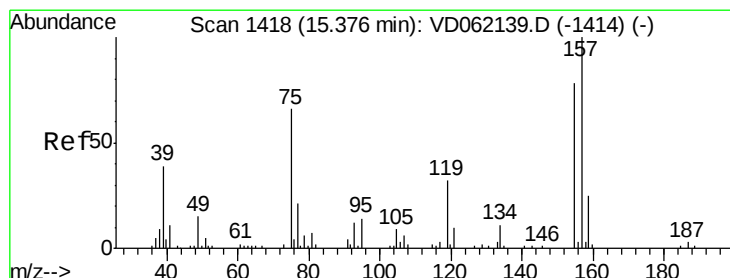
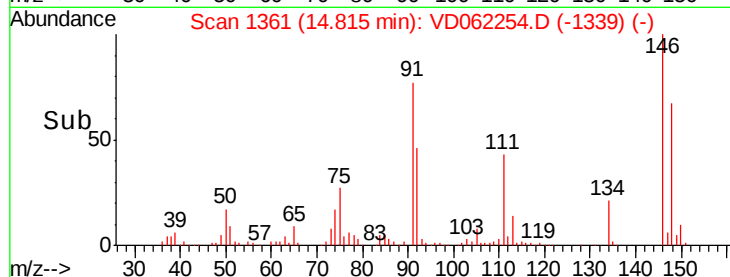
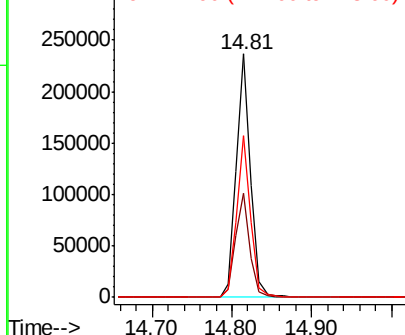
#91
 1,2-Dichlorobenzene
 Concen: 21.866 ug/l
 RT: 14.81 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

Tot Ion:146 Resp: 297639
 Ion Ratio Lower Upper
 146 100
 111 42.8 20.0 59.9
 148 66.6 32.3 96.8

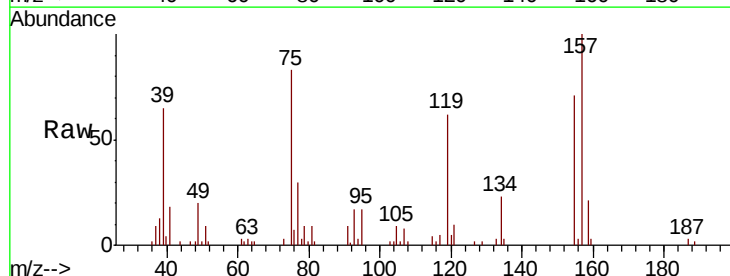


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

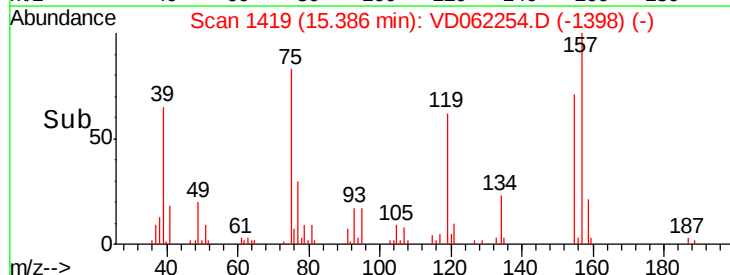
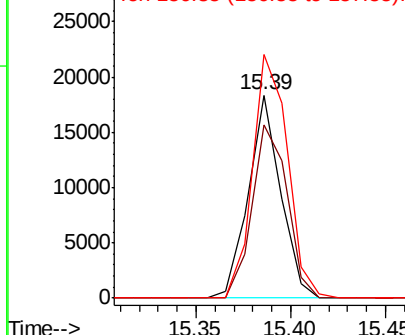


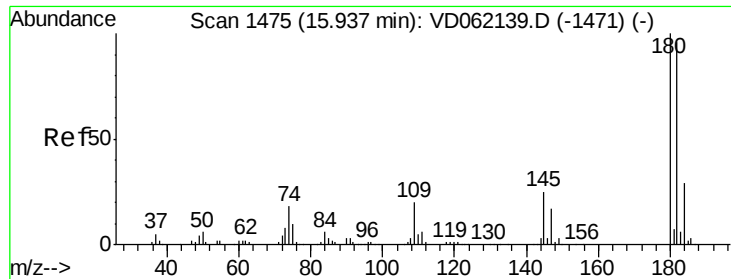
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.532 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion: 75 Resp: 21627
 Ion Ratio Lower Upper
 75 100
 155 85.6 55.3 165.8
 157 120.1 67.8 203.2



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

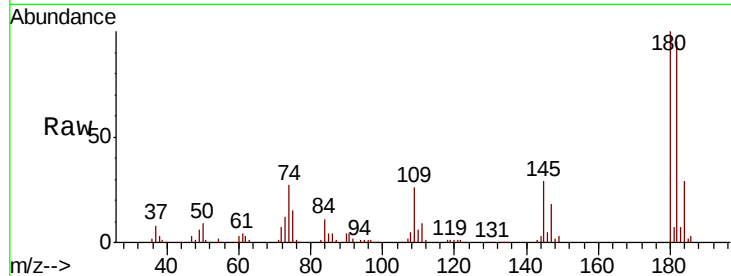




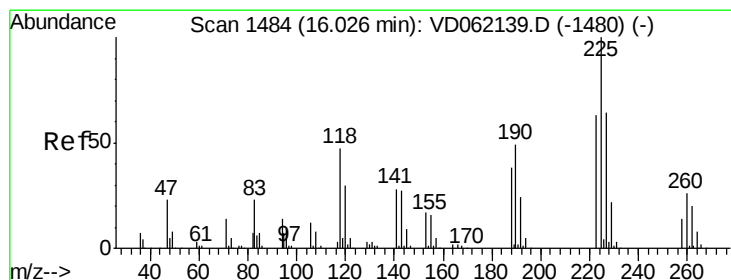
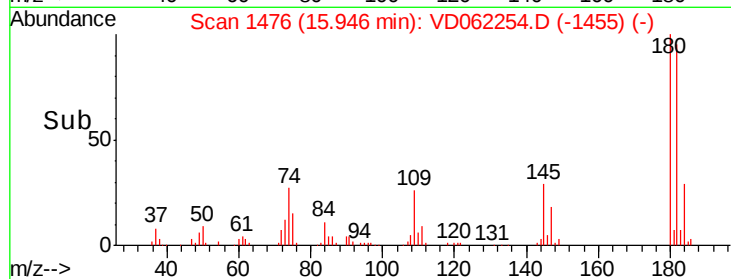
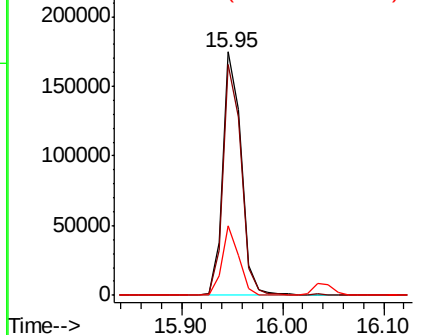
#93
 1,2,4-Trichlorobenzene
 Concen: 22.585 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0512SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	49.3	147.8
145	28.8	16.2	48.6

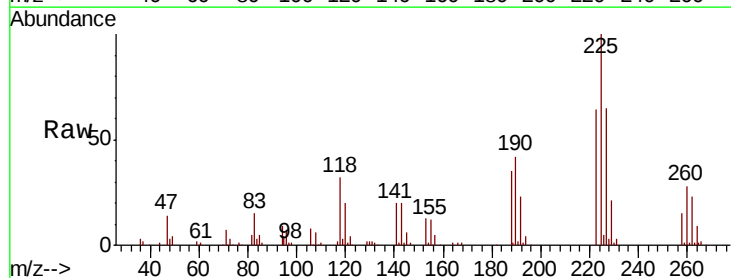


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

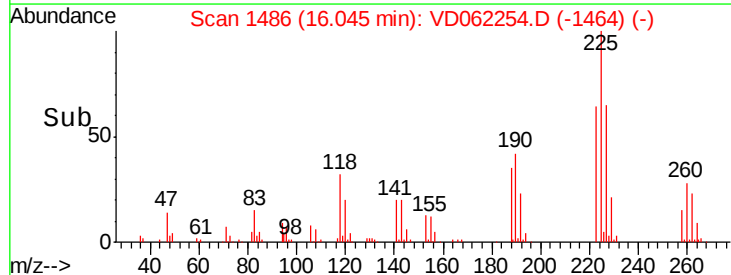
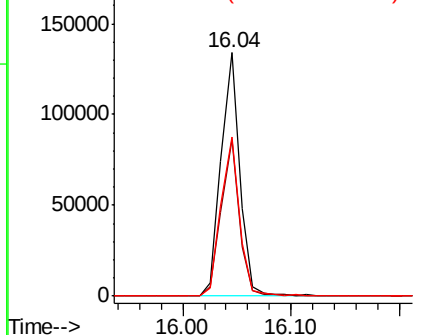


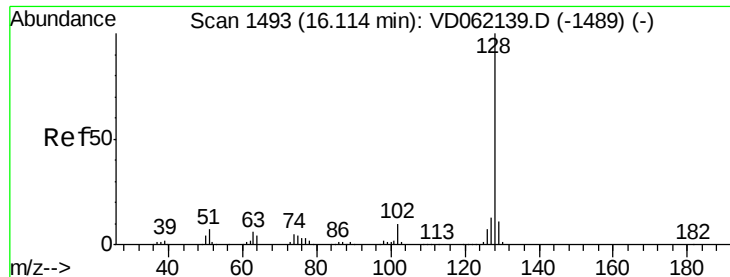
#94
 Hexachlorobutadiene
 Concen: 22.005 ug/l
 RT: 16.04 min Scan# 1486
 Delta R.T. 0.02 min
 Lab File: VD062254.D
 Acq: 12 May 2019 13:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.4	30.6	92.0
227	65.3	32.0	96.2



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

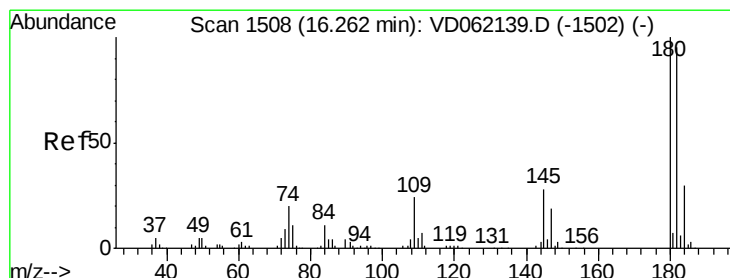
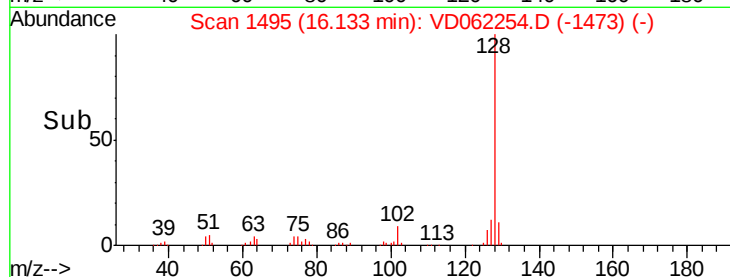
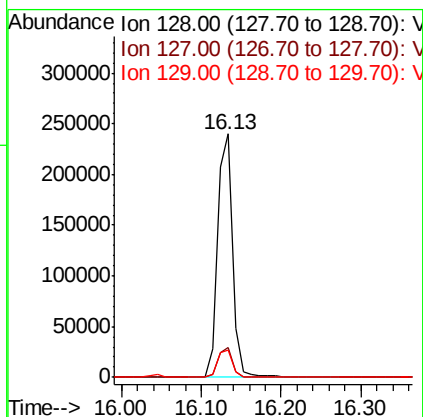
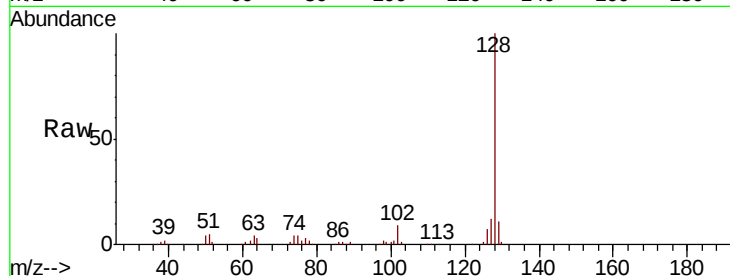




#95
Naphthalene
Concen: 23.117 ug/l
RT: 16.13 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Instrument :
MSVOA_D
ClientSampleId :
VD0512SBS01

Tot Ion:128 Resp: 319750
Ion Ratio Lower Upper
128 100
127 12.3 9.8 14.8
129 11.2 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 25.284 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062254.D
Acq: 12 May 2019 13:02

Tgt Ion:180 Resp: 157503
Ion Ratio Lower Upper
180 100
182 97.6 47.0 141.0
145 32.3 17.0 51.0

