

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053119\
 Data File : VD062558.D
 Acq On : 31 May 2019 12:20
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: May 31 23:25:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	789864	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1034884	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	865386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	476364	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	503084	54.32	ug/l	0.00
Spiked Amount			Recovery	=	108.64%	
35) Dibromofluoromethane	6.93	113	523585	55.52	ug/l	0.00
Spiked Amount			Recovery	=	111.04%	
50) Toluene-d8	10.43	98	1062688	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	
62) 4-Bromofluorobenzene	13.56	95	521830	56.00	ug/l	0.00
Spiked Amount			Recovery	=	112.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	415253	45.328	ug/l	93
3) Chloromethane	1.75	50	384173	43.289	ug/l	99
4) Vinyl Chloride	1.85	62	330544	47.235	ug/l	99
5) Bromomethane	2.16	94	147780	65.030	ug/l	99
6) Chloroethane	2.28	64	181366	55.269	ug/l	98
7) Trichlorofluoromethane	2.54	101	741066	50.112	ug/l	98
8) Diethyl Ether	2.89	74	91270	48.111	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.15	101	425494	48.723	ug/l	93
10) Methyl Iodide	3.31	142	445093	44.918	ug/l	93
11) Tert butyl alcohol	4.09	59	98393	249.083	ug/l #	85
12) 1,1-Dichloroethene	3.13	96	324252	52.486	ug/l	97
13) Acrolein	3.04	56	36066	209.542	ug/l	98
14) Allyl chloride	3.63	41	470527	48.758	ug/l	91
15) Acrylonitrile	4.22	53	219655	232.608	ug/l	98
16) Acetone	3.23	43	524361	288.162	ug/l	94
17) Carbon Disulfide	3.38	76	891048	44.372	ug/l	100
18) Methyl Acetate	3.65	43	142979	48.141	ug/l	99
19) Methyl tert-butyl Ether	4.24	73	778093	51.993	ug/l	97
20) Methylene Chloride	3.82	84	307860	45.703	ug/l	99
21) trans-1,2-Dichloroethene	4.23	96	339652	48.447	ug/l	98
22) Diisopropyl ether	5.13	45	963598	48.878	ug/l	89
23) Vinyl Acetate	5.07	43	3124444	261.337	ug/l	98
24) 1,1-Dichloroethane	5.00	63	623562	49.013	ug/l	99
25) 2-Butanone	6.10	43	449375	262.215	ug/l	97
26) 2,2-Dichloropropane	6.04	77	758588	53.748	ug/l	97
27) cis-1,2-Dichloroethene	6.06	96	373855	51.878	ug/l	99
28) Bromochloromethane	6.45	49	215541	49.030	ug/l	93
29) Tetrahydrofuran	6.47	42	196286	255.688	ug/l	97
30) Chloroform	6.68	83	801410	52.276	ug/l	94
31) Cyclohexane	6.96	56	402929	46.844	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	825464	51.738	ug/l	98
36) 1,1-Dichloropropene	7.16	75	523715	50.837	ug/l	93
37) Ethyl Acetate	6.19	43	221644	51.033	ug/l #	92
38) Carbon Tetrachloride	7.13	117	943663	61.525	ug/l	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	452731	51.907	ug/l	91
40) Benzene	7.47	78	1011796	50.041	ug/l	99
41) Methacrylonitrile	6.47	41	282168	55.209	ug/l #	95
42) 1,2-Dichloroethane	7.59	62	650656	57.771	ug/l	95
43) Isopropyl Acetate	9.26	43	282207	52.207	ug/l #	99
44) Trichloroethene	8.55	130	398829	49.374	ug/l	93
45) 1,2-Dichloropropane	8.95	63	256286	51.701	ug/l	100
46) Dibromomethane	9.08	93	230446	55.345	ug/l	91
47) Bromodichloromethane	9.38	83	629743	54.891	ug/l	96
48) Methyl methacrylate	9.13	41	195295	54.244	ug/l	96
49) 1,4-Dioxane	9.09	88	33545	1147.096	ug/l	94
51) 4-Methyl-2-Pentanone	10.32	43	1024302	271.604	ug/l	98
52) Toluene	10.53	92	680449	49.343	ug/l	95
53) t-1,3-Dichloropropene	10.93	75	527450	54.416	ug/l	98
54) cis-1,3-Dichloropropene	10.05	75	551967	54.773	ug/l	98
55) 1,1,2-Trichloroethane	11.20	97	233573	51.584	ug/l	95
56) Ethyl methacrylate	11.06	69	277445	57.488	ug/l	96
57) 1,3-Dichloropropane	11.42	76	373105	53.452	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.88	63	676069	273.140	ug/l	96
59) 2-Hexanone	11.54	43	739424	279.526	ug/l	97
60) Dibromochloromethane	11.70	129	485824	55.212	ug/l	96
61) 1,2-Dibromoethane	11.82	107	296958	54.518	ug/l	97
64) Tetrachloroethene	11.26	164	365796	47.817	ug/l	99
65) Chlorobenzene	12.41	112	878443	52.106	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	438163	54.957	ug/l	95
67) Ethyl Benzene	12.53	91	1627618	52.694	ug/l	99
68) m/p-Xylenes	12.68	106	1132868	106.024	ug/l	98
69) o-Xylene	13.06	106	499837	49.038	ug/l	88
70) Styrene	13.08	104	846028	48.884	ug/l	91
71) Bromoform	13.24	173	298068	53.256	ug/l #	91
73) Isopropylbenzene	13.41	105	1673419	53.286	ug/l	98
74) N-amyl acetate	13.27	43	410937	51.319	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.71	83	254641	51.126	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	297613	52.076	ug/l	99
77) Bromobenzene	13.68	156	443354	51.489	ug/l	89
78) n-propylbenzene	13.78	91	1823410	50.373	ug/l	98
79) 2-Chlorotoluene	13.84	91	1060956	50.548	ug/l	95
80) 1,3,5-Trimethylbenzene	13.94	105	1410255	52.552	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.48	75	84877	51.831	ug/l	87
82) 4-Chlorotoluene	13.95	91	1357285	54.015	ug/l	92
83) tert-Butylbenzene	14.20	119	1553064	51.866	ug/l	96
84) 1,2,4-Trimethylbenzene	14.25	105	1285449	47.009	ug/l	99
85) sec-Butylbenzene	14.37	105	1621374	51.114	ug/l	98
86) p-Isopropyltoluene	14.49	119	1520366	51.302	ug/l	97
87) 1,3-Dichlorobenzene	14.46	146	804381	53.891	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	751172	50.220	ug/l	97
89) n-Butylbenzene	14.81	91	1477321	55.842	ug/l	96
90) Hexachloroethane	15.01	117	425340	54.098	ug/l	83
91) 1,2-Dichlorobenzene	14.82	146	702793	55.972	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.39	75	57853	56.018	ug/l	71

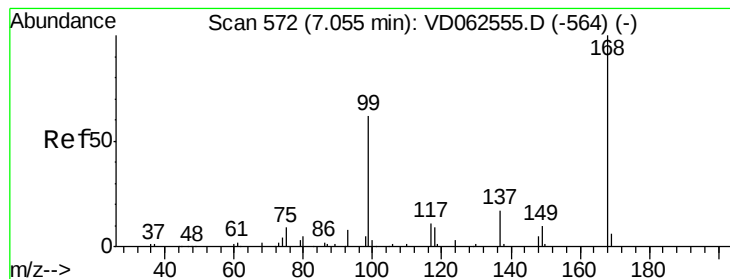
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD053119\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	521648	51.957	ug/l	94
94) Hexachlorobutadiene	16.04	225	424920	57.331	ug/l	98
95) Naphthalene	16.13	128	730792	53.448	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	406180	54.159	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

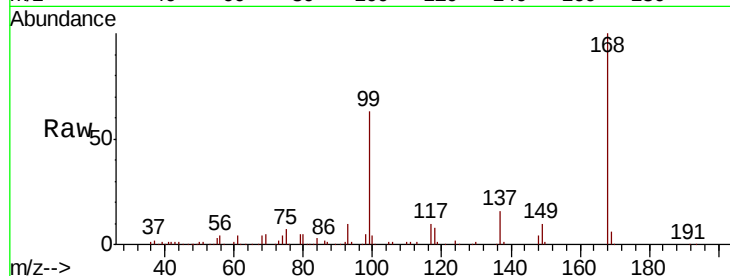
VSTDCCC050

Tot Ion:168 Resp: 789864

Ion Ratio Lower Upper

168 100

99 62.6 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

300000

250000

200000

150000

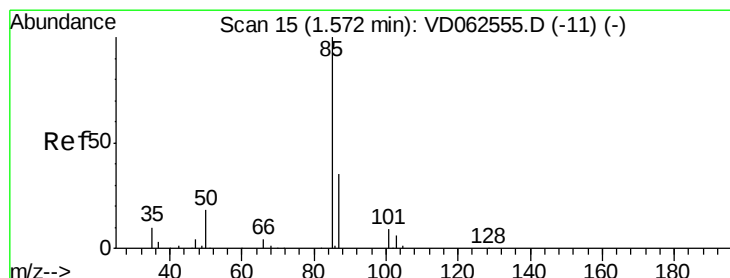
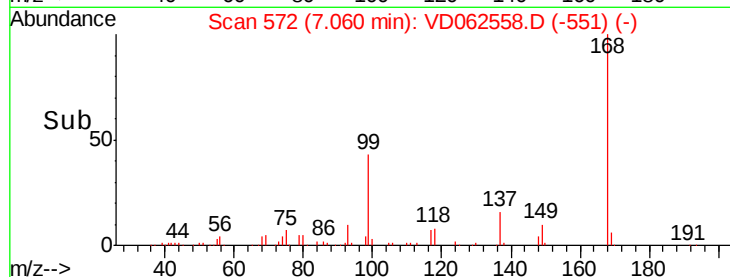
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 45.328 ug/l

RT: 1.58 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD062558.D

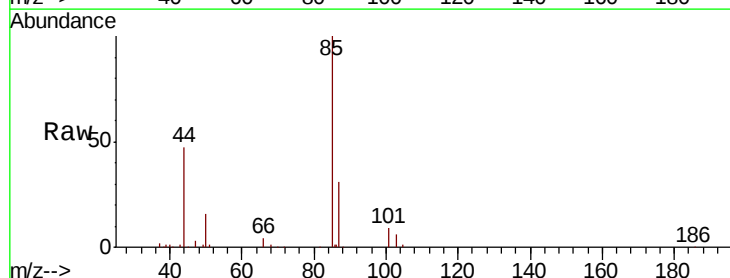
Acq: 31 May 2019 12:20

Tgt Ion: 85 Resp: 415253

Ion Ratio Lower Upper

85 100

87 30.8 17.5 52.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

150000

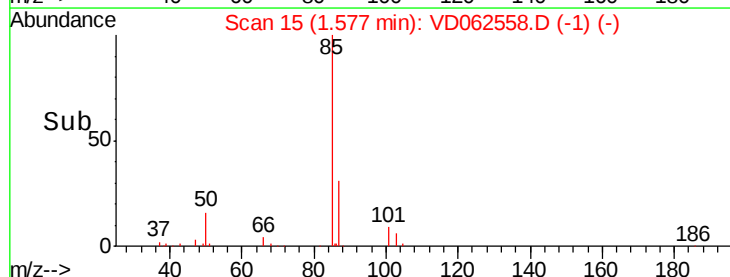
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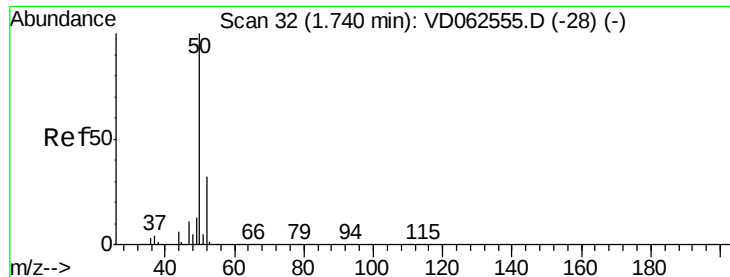
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 43.289 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.02 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

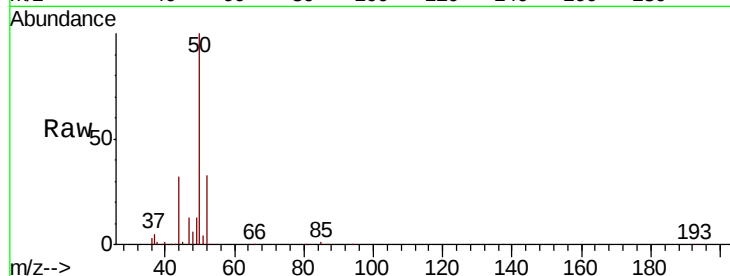
VSTDCCC050

Tot Ion: 50 Resp: 384173

Ion Ratio Lower Upper

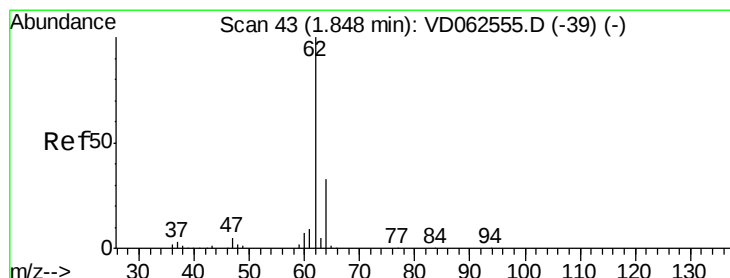
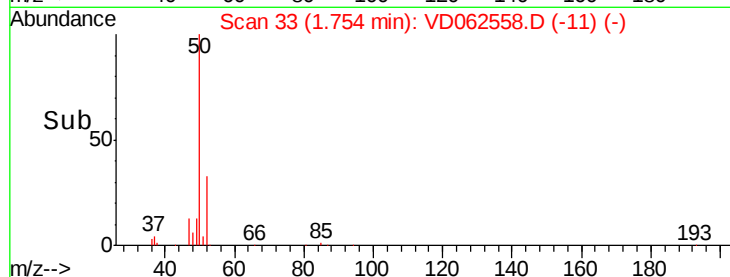
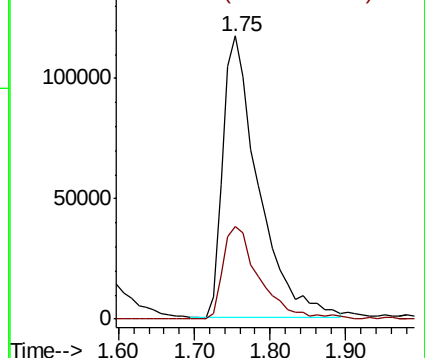
50 100

52 32.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 47.235 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD062558.D

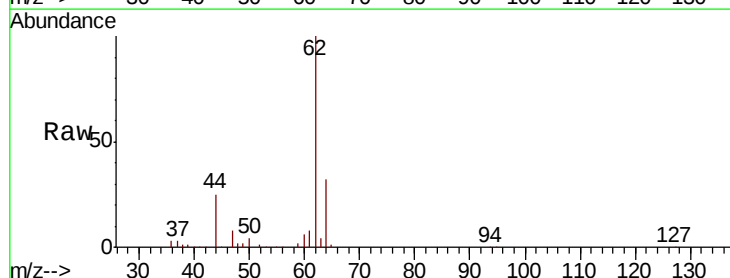
Acq: 31 May 2019 12:20

Tgt Ion: 62 Resp: 330544

Ion Ratio Lower Upper

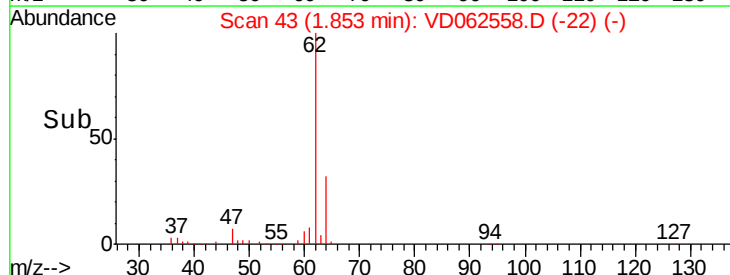
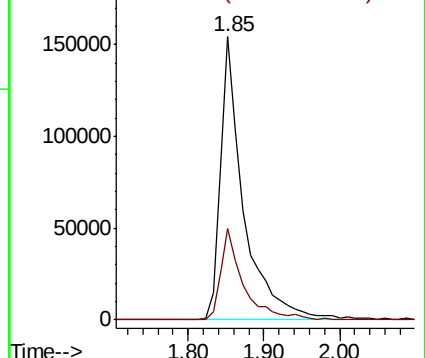
62 100

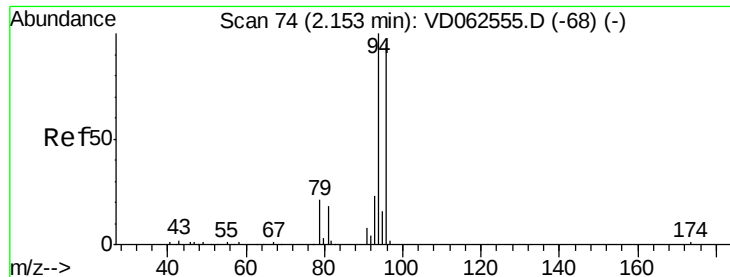
64 32.3 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 65.030 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

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ClientSampleId :

VSTDCCC050

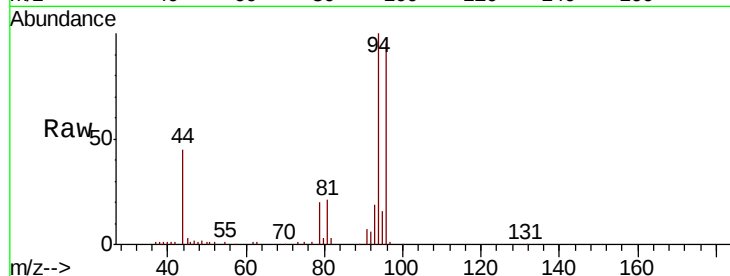
Tot Ion: 94 Resp: 147780

Ion Ratio Lower Upper

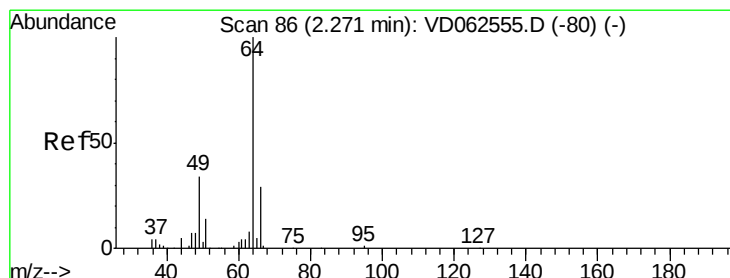
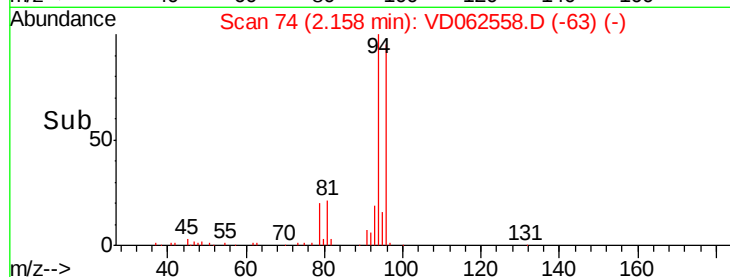
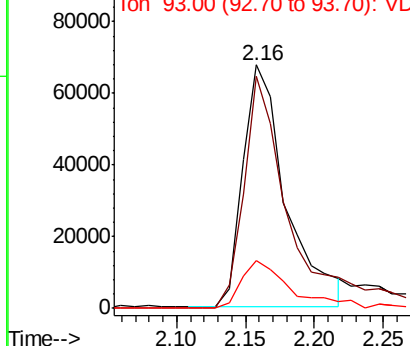
94 100

96 95.3 76.2 114.4

93 19.4 18.4 27.6



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: 55.269 ug/l

RT: 2.28 min Scan# 86

Delta R.T. 0.00 min

Lab File: VD062558.D

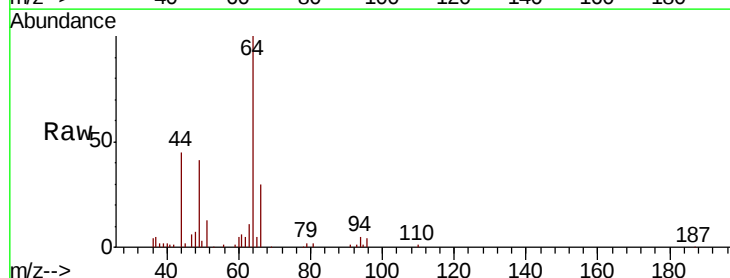
Acq: 31 May 2019 12:20

Tgt Ion: 64 Resp: 181366

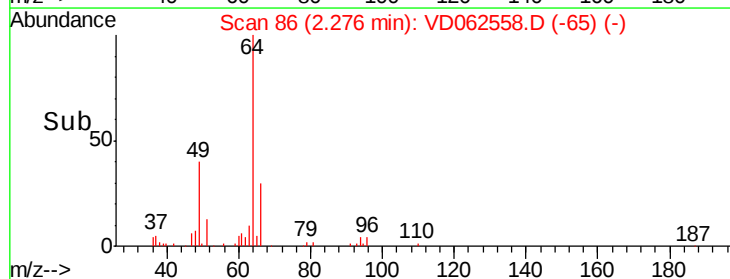
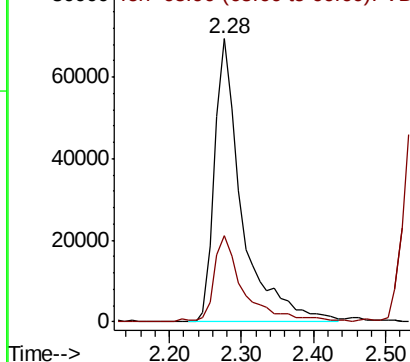
Ion Ratio Lower Upper

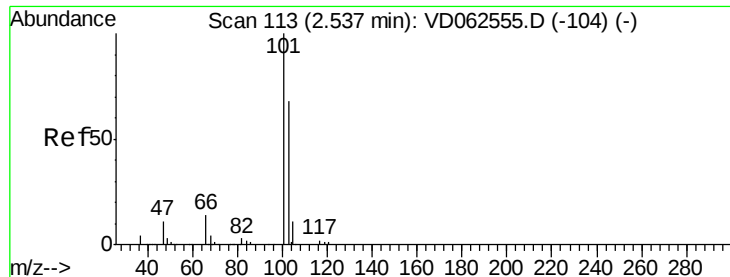
64 100

66 30.3 23.4 35.2



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



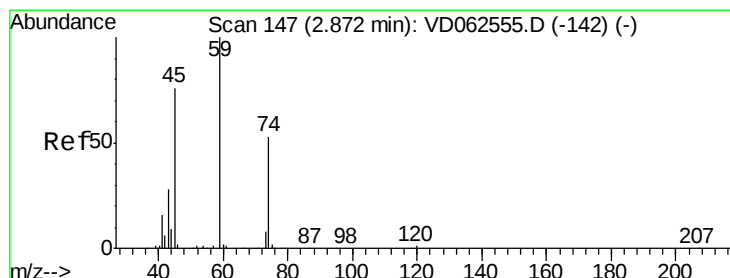
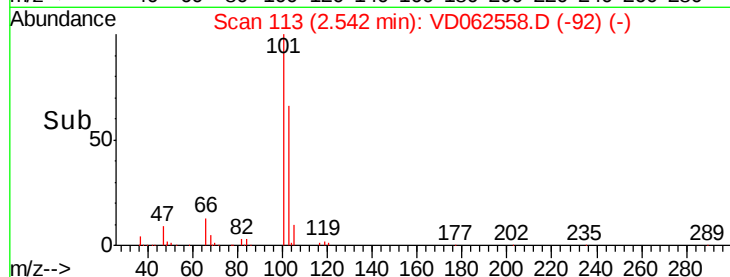
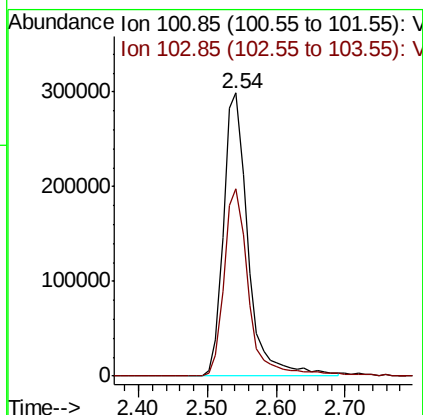
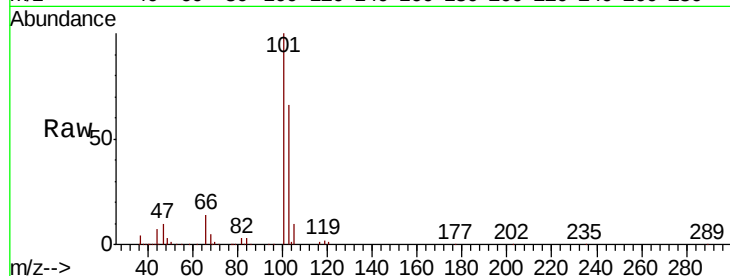


#7

Trichlorofluoromethane
 Concen: 50.112 ug/l
 RT: 2.54 min Scan# 113
 Delta R.T. 0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

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 VSTDCCC050

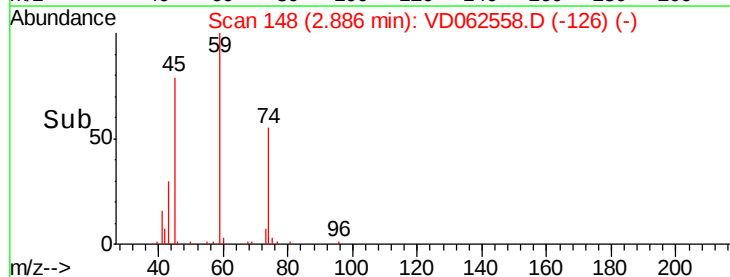
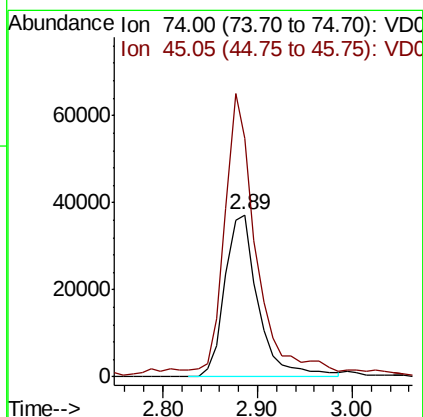
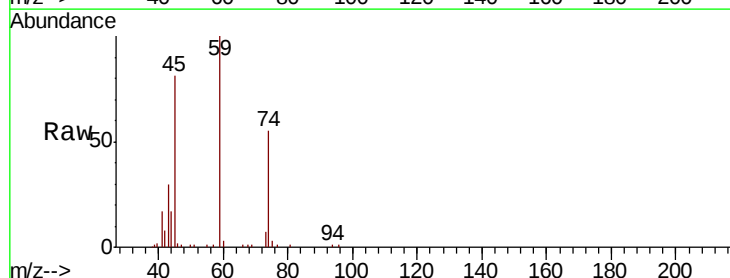
Tot Ion:101 Resp: 741066
 Ion Ratio Lower Upper
 101 100
 103 66.4 54.3 81.5

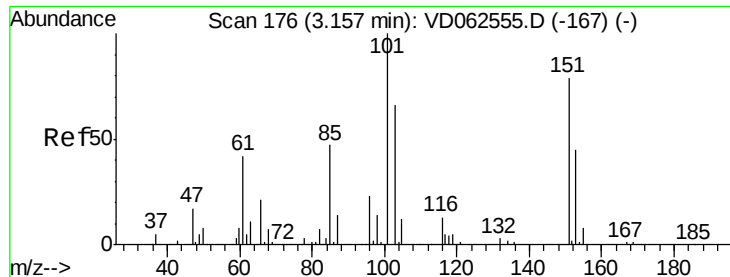


#8

Diethyl Ether
 Concen: 48.111 ug/l
 RT: 2.89 min Scan# 148
 Delta R.T. 0.01 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion: 74 Resp: 91270
 Ion Ratio Lower Upper
 74 100
 45 147.6 71.9 215.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.723 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

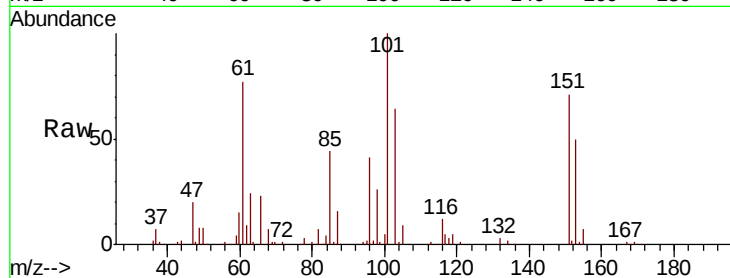
Tot Ion:101 Resp: 425494

Ion Ratio Lower Upper

101 100

85 44.2 37.6 56.4

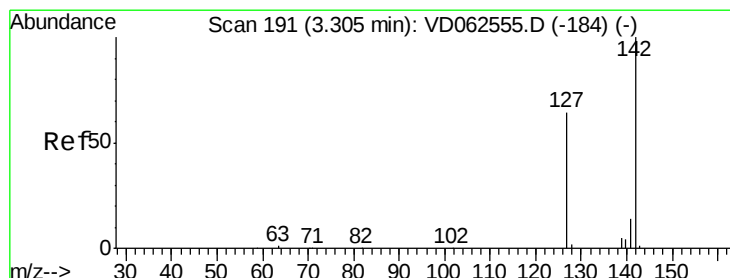
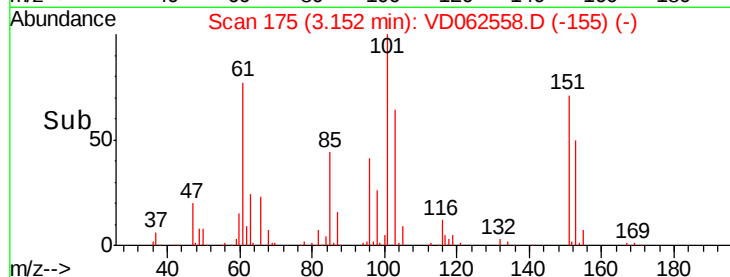
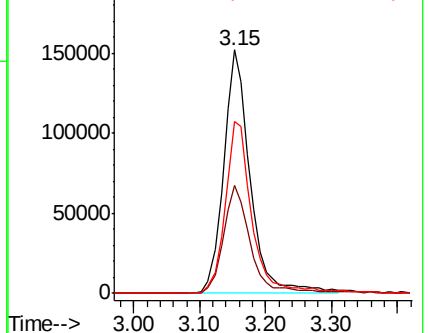
151 70.5 63.0 94.4



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: 44.918 ug/l

RT: 3.31 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

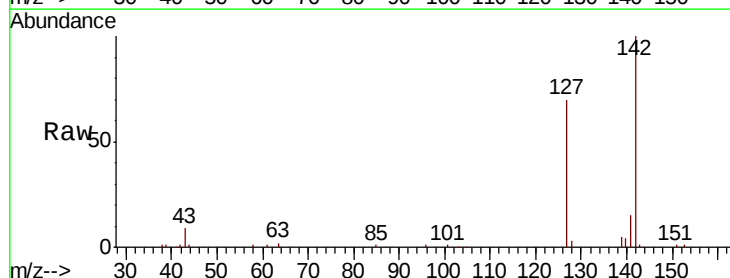
Tgt Ion:142 Resp: 445093

Ion Ratio Lower Upper

142 100

127 69.9 51.2 76.8

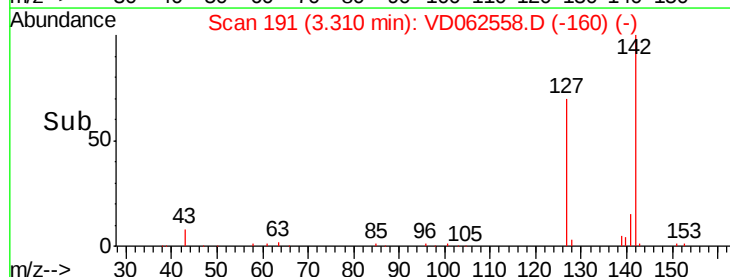
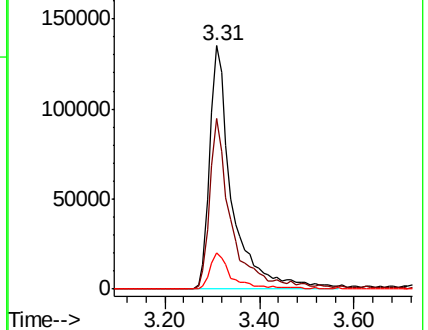
141 15.0 11.0 16.4

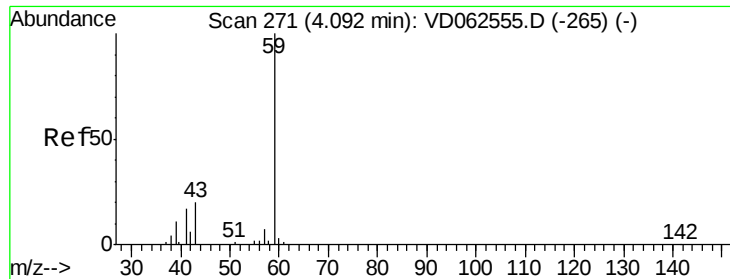


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

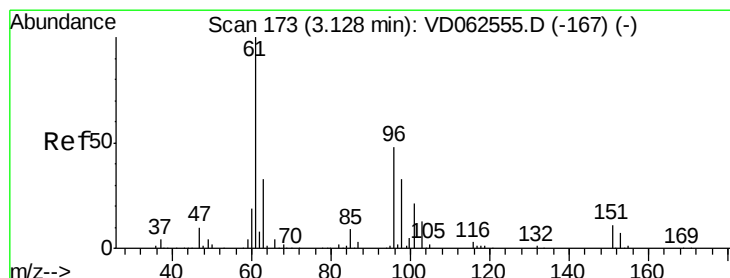
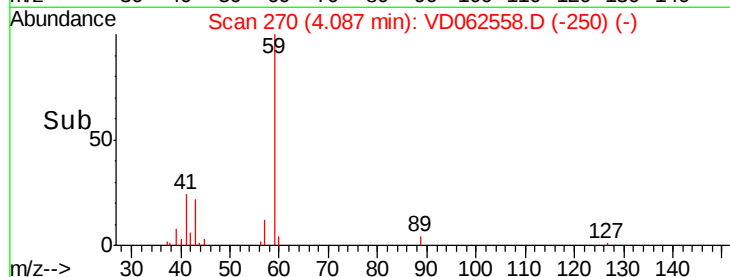
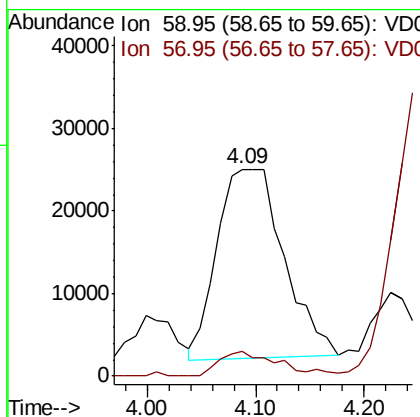
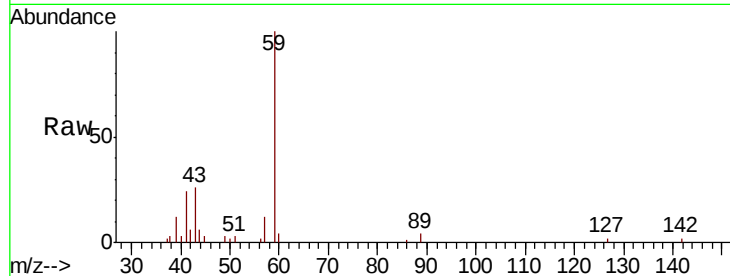




#11
Tert butyl alcohol
Concen: 249.083 ug/l
RT: 4.09 min Scan# 270
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

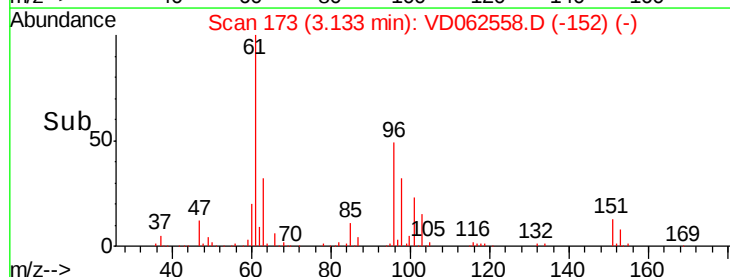
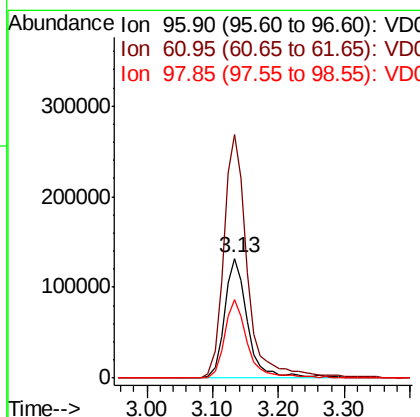
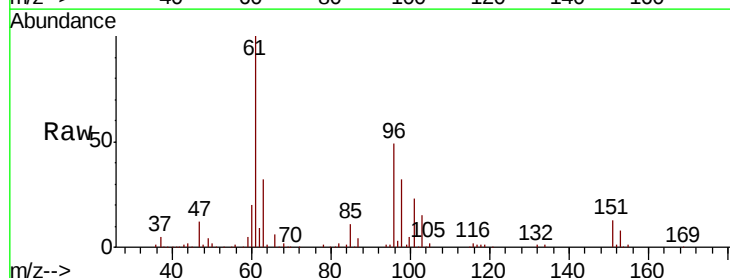
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

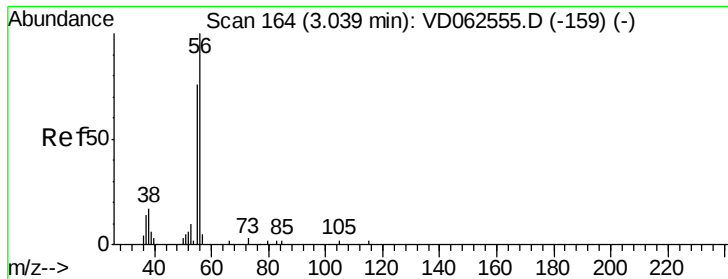
Tot Ion: 59 Resp: 98393
Ion Ratio Lower Upper
59 100
57 11.7 5.4 8.0#



#12
1,1-Dichloroethene
Concen: 52.486 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.01 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 96 Resp: 324252
Ion Ratio Lower Upper
96 100
61 202.8 166.6 250.0
98 65.5 54.4 81.6





#13

Acrolein

Concen: 209.542 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

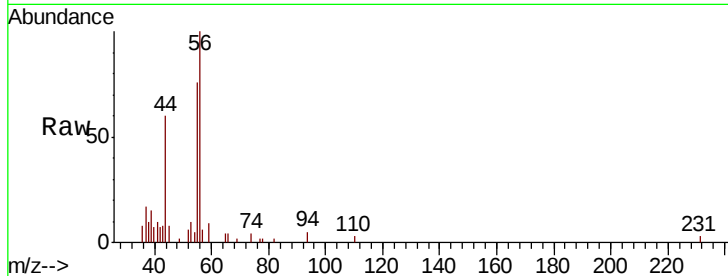
VSTDCCC050

Tot Ion: 56 Resp: 36066

Ion Ratio Lower Upper

56 100

55 76.3 62.6 93.8



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

10000

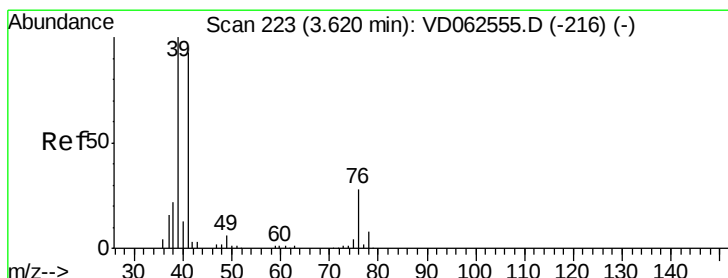
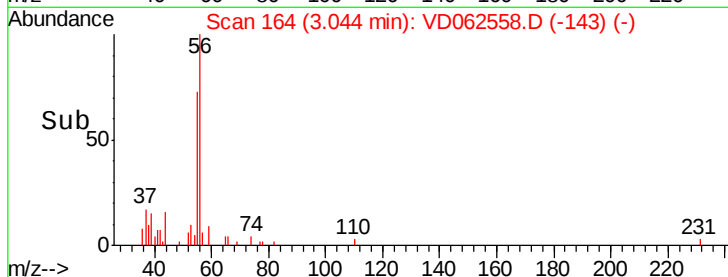
5000

0

Time-->

2.95 3.00 3.05 3.10 3.15

3.04



#14

Allyl chloride

Concen: 48.758 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

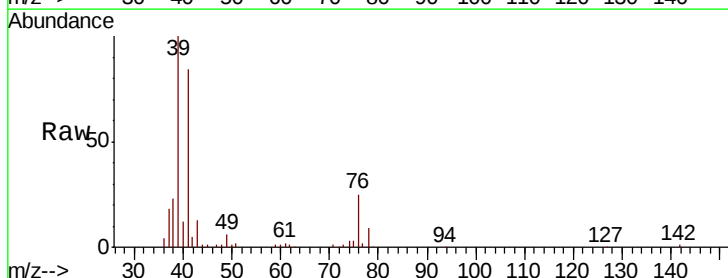
Tgt Ion: 41 Resp: 470527

Ion Ratio Lower Upper

41 100

39 118.7 86.3 129.5

76 30.0 25.5 38.3



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

250000

200000

150000

100000

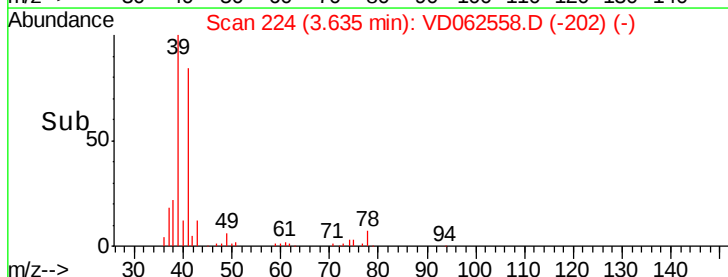
50000

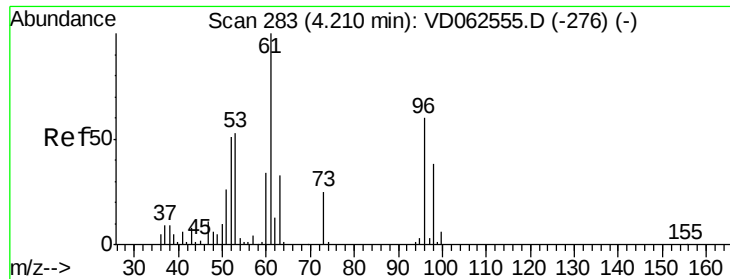
0

Time-->

3.50 3.60 3.70 3.80

3.63





#15

Acrylonitrile

Concen: 232.608 ug/l

RT: 4.22 min Scan# 283

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

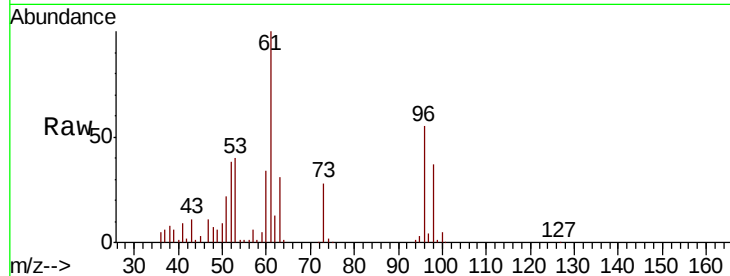
Tot Ion: 53 Resp: 219655

Ion Ratio Lower Upper

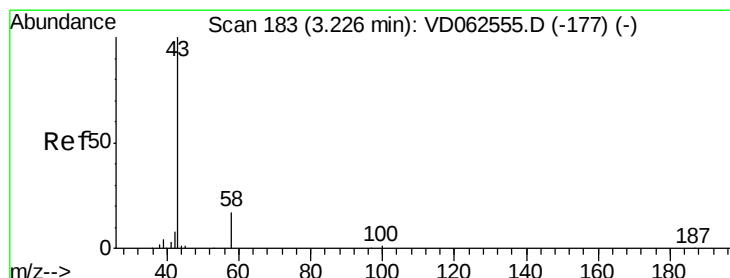
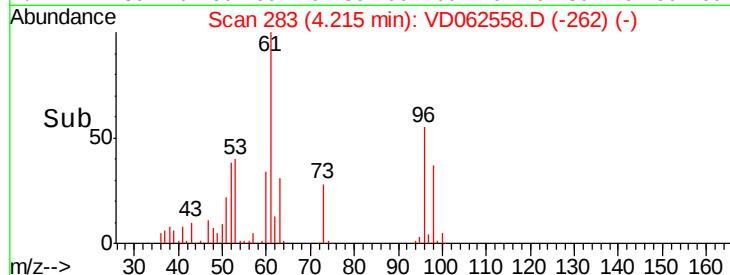
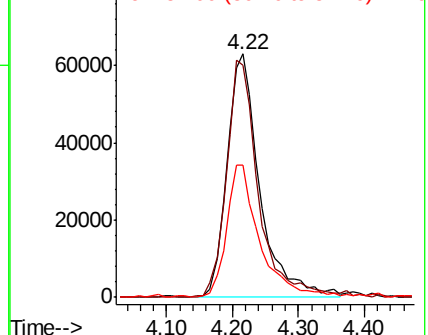
53 100

52 95.2 76.2 114.2

51 54.3 40.2 60.4



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: 288.162 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062558.D

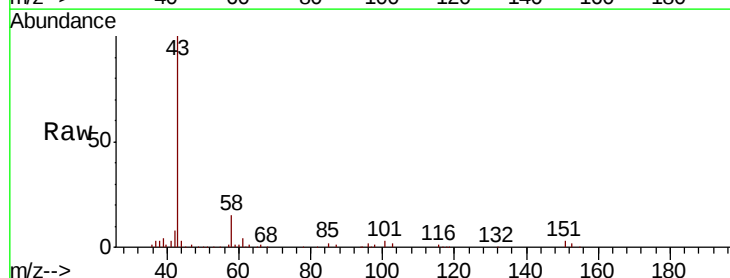
Acq: 31 May 2019 12:20

Tgt Ion: 43 Resp: 524361

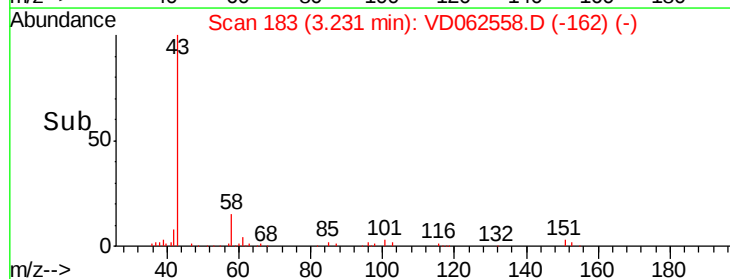
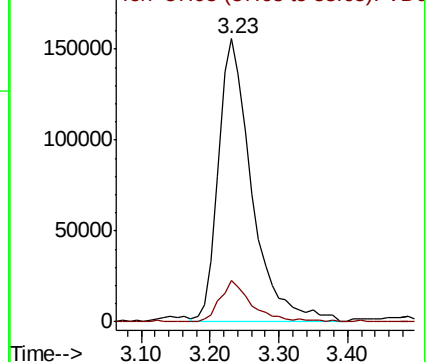
Ion Ratio Lower Upper

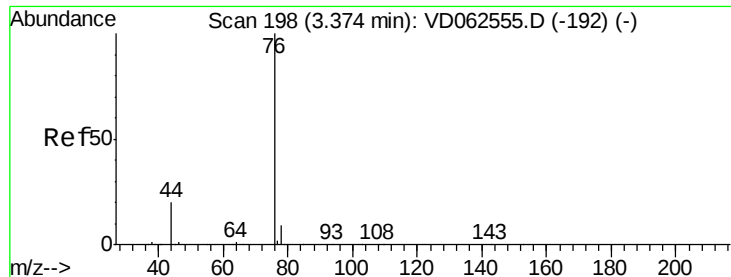
43 100

58 14.5 13.8 20.8



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

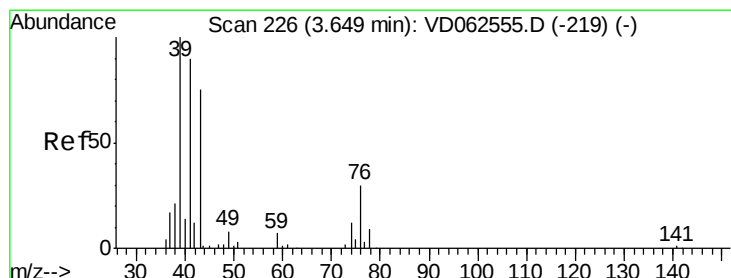
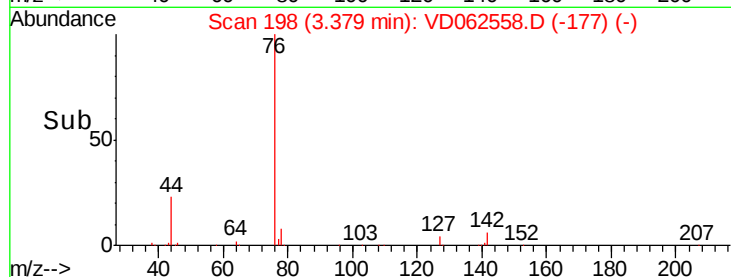
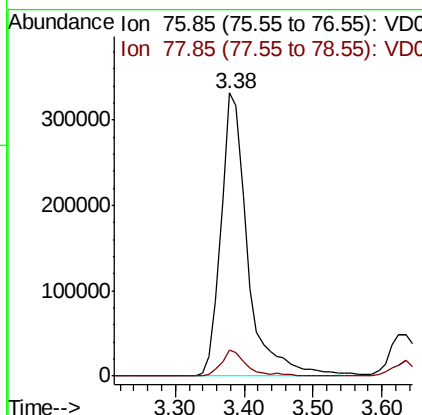
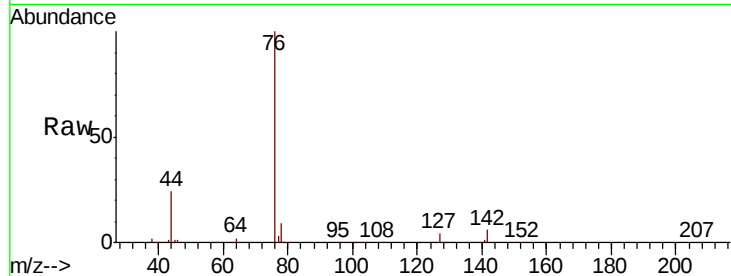




#17
Carbon Disulfide
Concen: 44.372 ug/l
RT: 3.38 min Scan# 198
Delta R.T. 0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

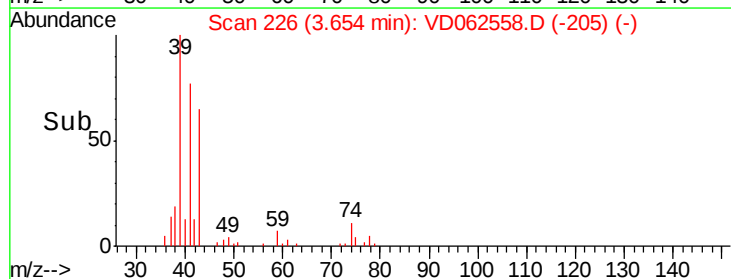
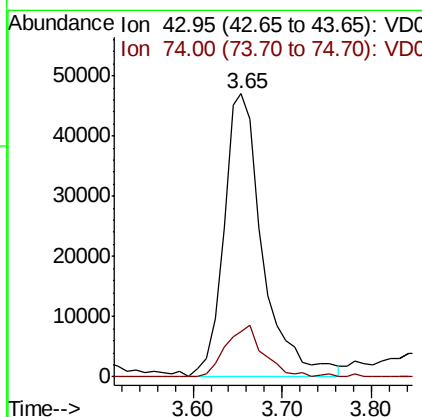
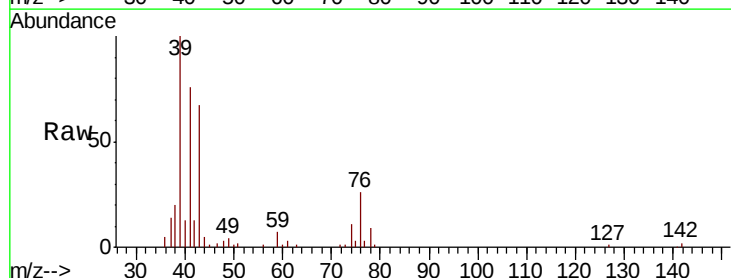
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

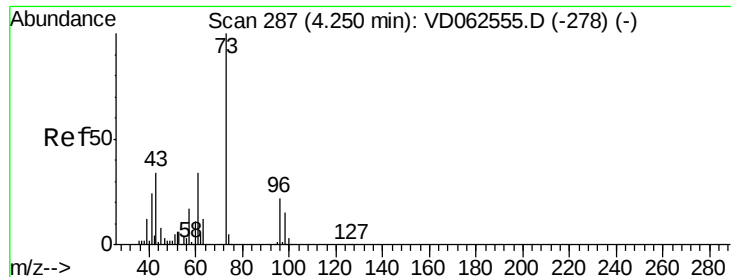
Tot Ion: 76 Resp: 891048
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.2



#18
Methyl Acetate
Concen: 48.141 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 43 Resp: 142979
Ion Ratio Lower Upper
43 100
74 16.2 12.5 18.7

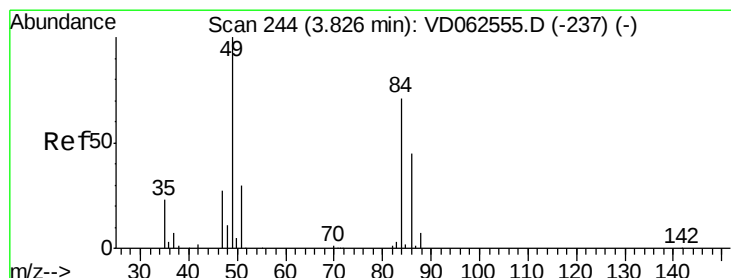
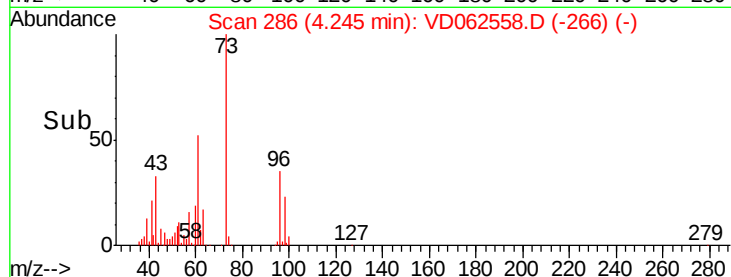
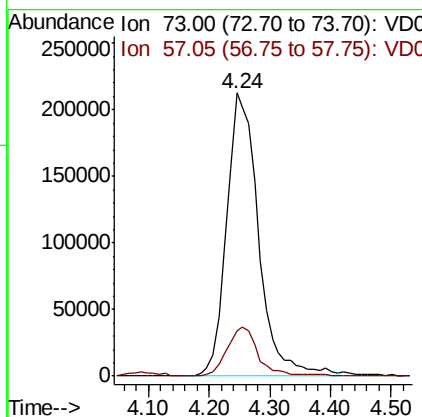
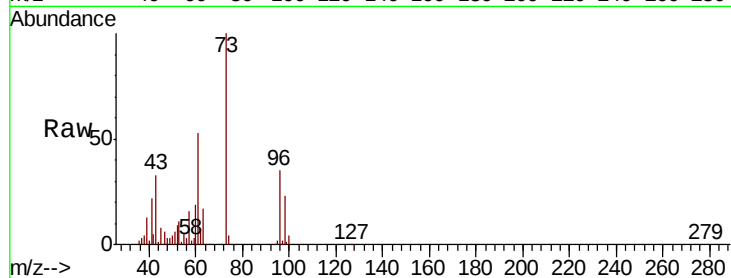




#19
Methvl tert-butvl Ether
Concen: 51.993 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

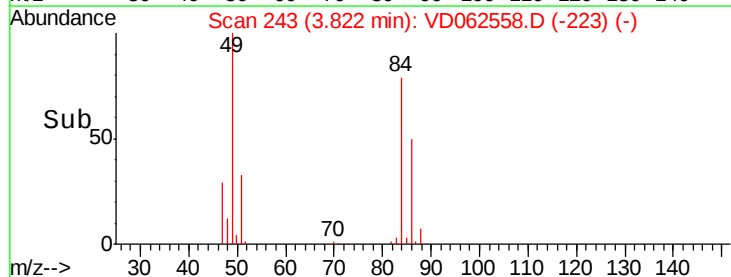
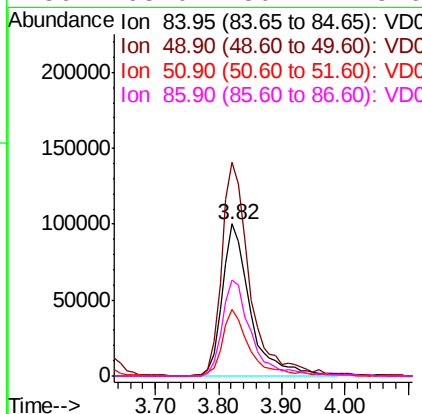
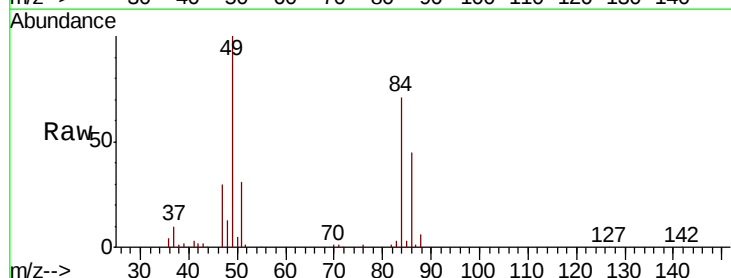
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

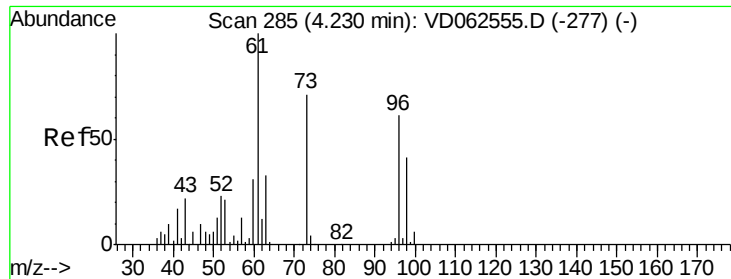
Tot Ion: 73 Resp: 778093
Ion Ratio Lower Upper
73 100
57 16.1 13.8 20.8



#20
Methylene Chloride
Concen: 45.703 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 84 Resp: 307860
Ion Ratio Lower Upper
84 100
49 140.7 112.3 168.5
51 43.8 33.6 50.4
86 63.0 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 48.447 ug/l

RT: 4.23 min Scan# 284

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

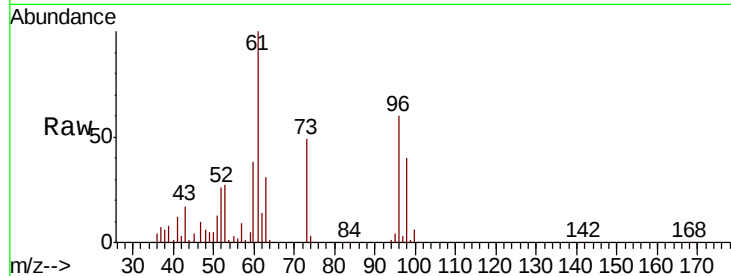
Tot Ion: 96 Resp: 339652

Ion Ratio Lower Upper

96 100

61 166.9 131.1 196.7

98 66.6 54.2 81.4

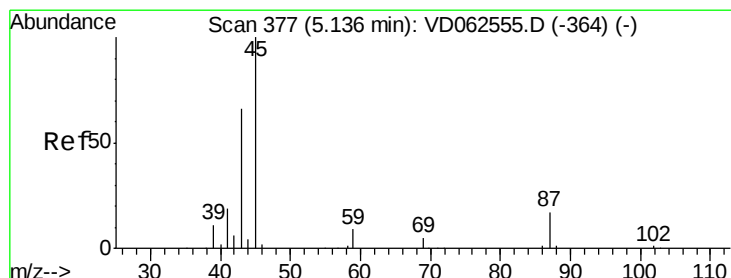
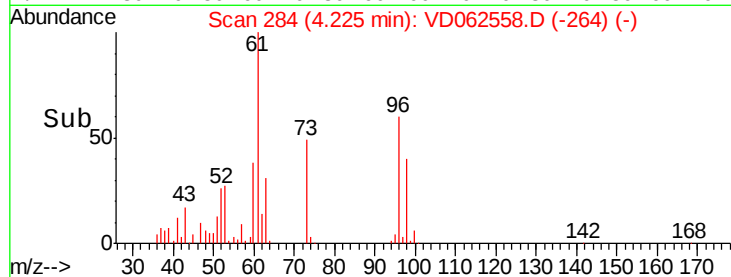
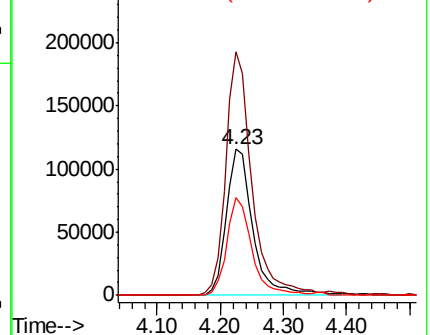


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 48.878 ug/l

RT: 5.13 min Scan# 376

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Tgt Ion: 45 Resp: 963598

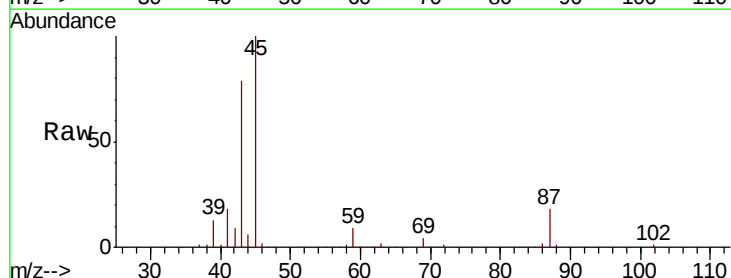
Ion Ratio Lower Upper

45 100

43 79.3 53.6 80.4

87 17.6 14.2 21.4

59 9.1 7.3 10.9



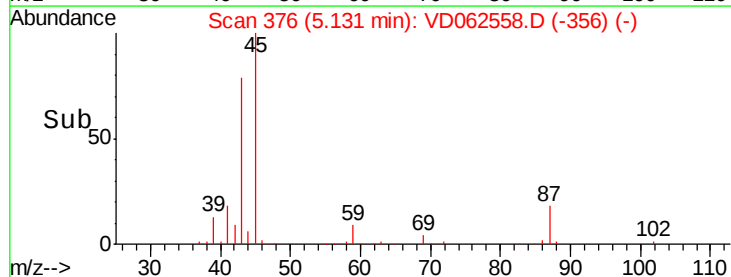
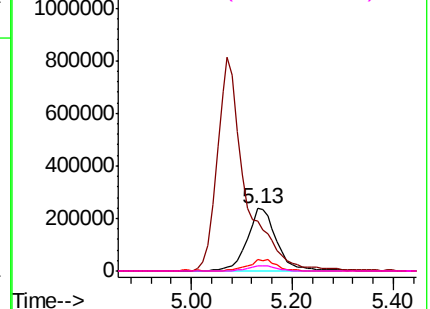
Abundance

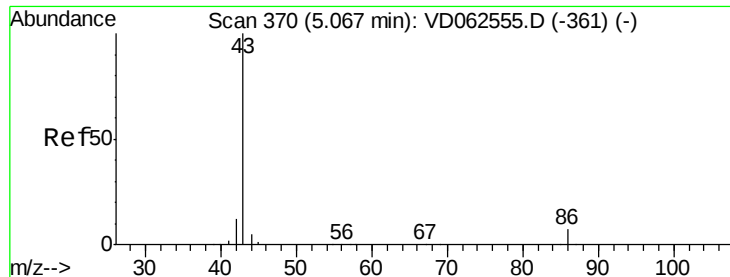
Ion 45.05 (44.75 to 45.75): VDC

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: 261.337 ug/l

RT: 5.07 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

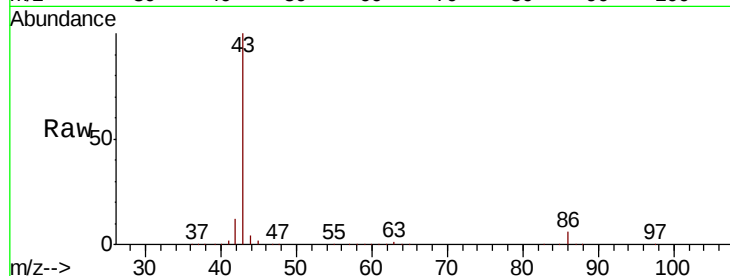
VSTDCCC050

Tot Ion: 43 Resp: 3124444

Ion Ratio Lower Upper

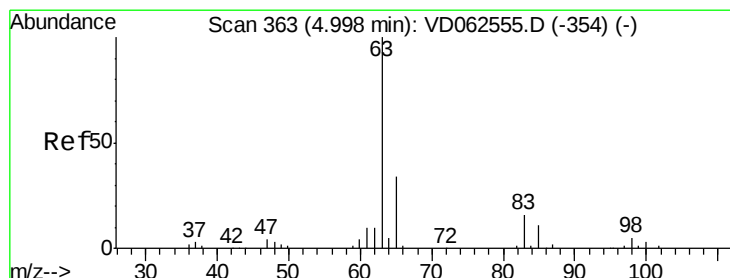
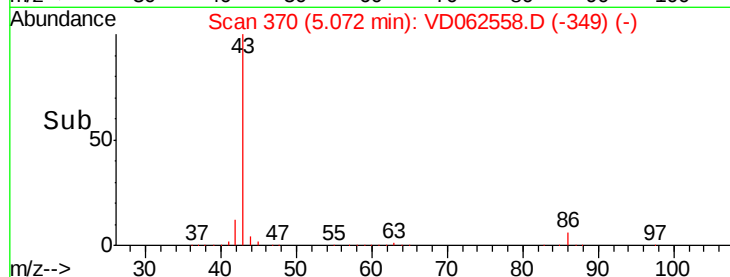
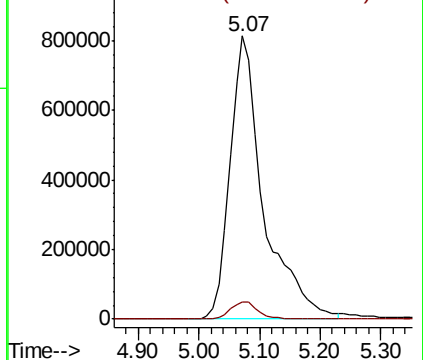
43 100

86 6.1 5.5 8.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.013 ug/l

RT: 5.00 min Scan# 363

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

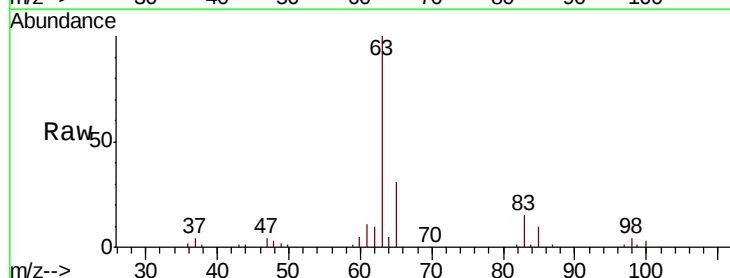
Tgt Ion: 63 Resp: 623562

Ion Ratio Lower Upper

63 100

98 4.5 2.5 7.5

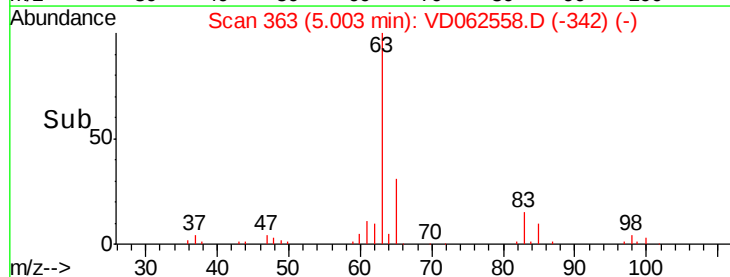
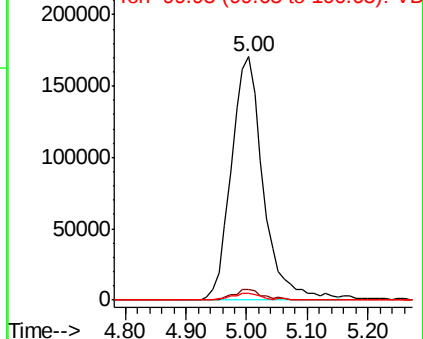
100 2.9 1.6 4.7

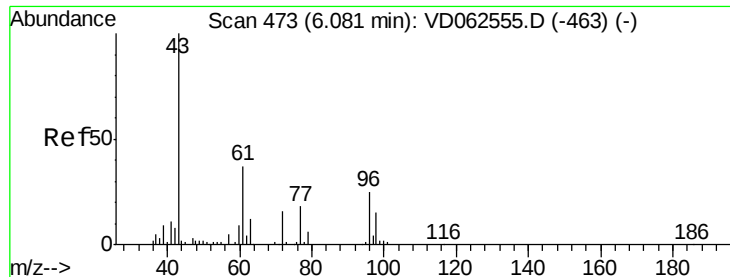


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 262.215 ug/l

RT: 6.10 min Scan# 474

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

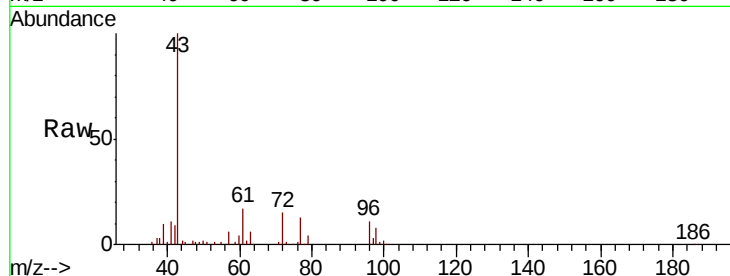
VSTDCCC050

Tot Ion: 43 Resp: 449375

Ion Ratio Lower Upper

43 100

72 14.6 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

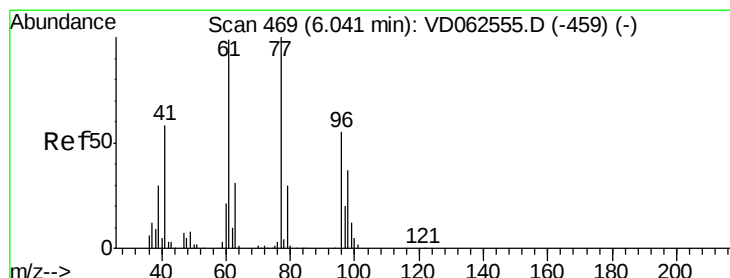
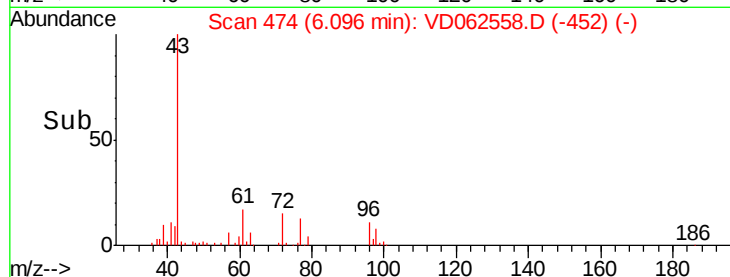
100000

50000

0

6.00 6.10 6.20

Time-->



#26

2,2-Dichloropropane

Concen: 53.748 ug/l

RT: 6.04 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD062558.D

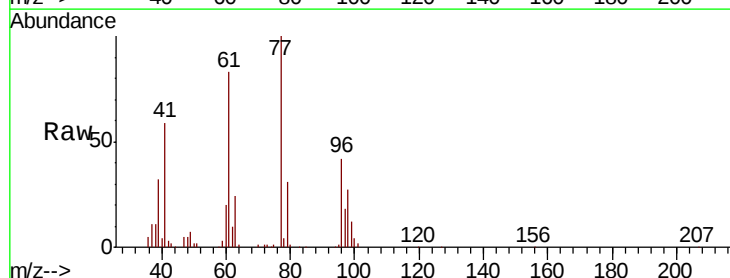
Acq: 31 May 2019 12:20

Tgt Ion: 77 Resp: 758588

Ion Ratio Lower Upper

77 100

97 18.2 9.8 29.3



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

250000

200000

150000

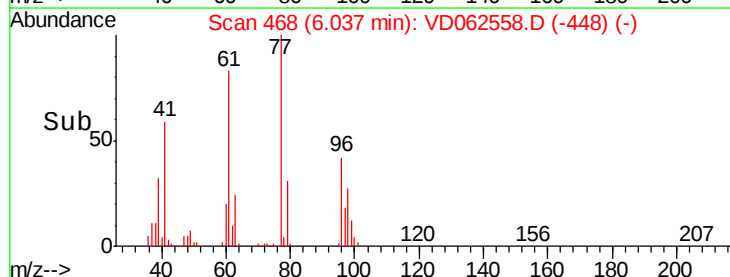
100000

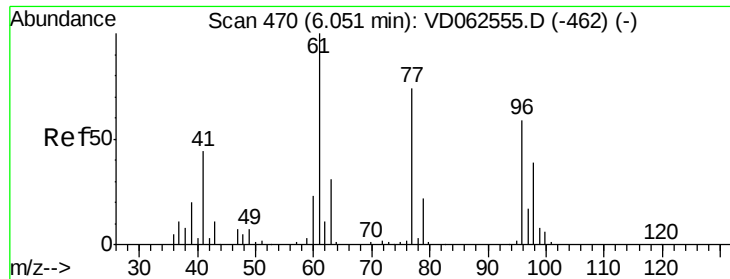
50000

0

5.90 6.00 6.10 6.20

Time-->





#27

cis-1,2-Dichloroethene

Concen: 51.878 ug/l

RT: 6.06 min Scan# 470

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

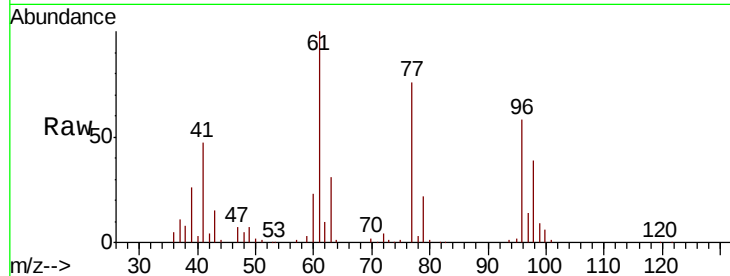
Tot Ion: 96 Resp: 373855

Ion Ratio Lower Upper

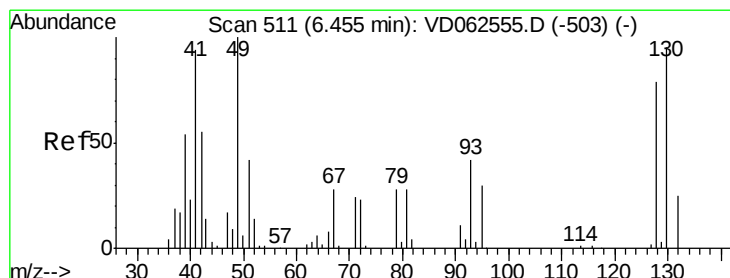
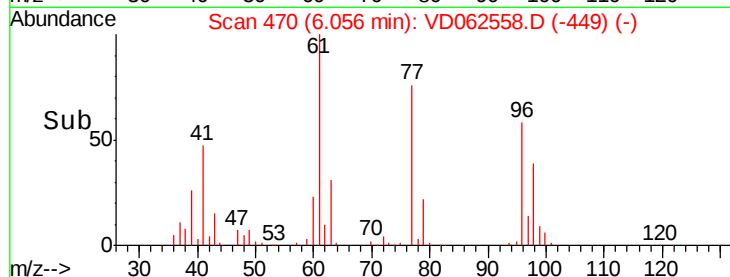
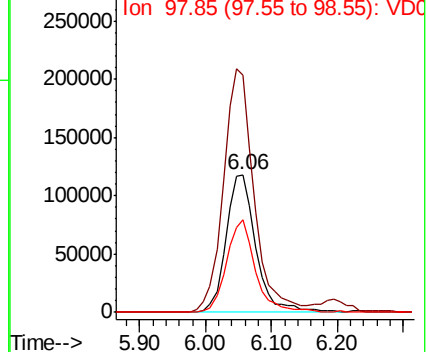
96 100

61 172.2 0.0 342.4

98 67.8 0.0 134.6



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



#28

Bromochloromethane

Concen: 49.030 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

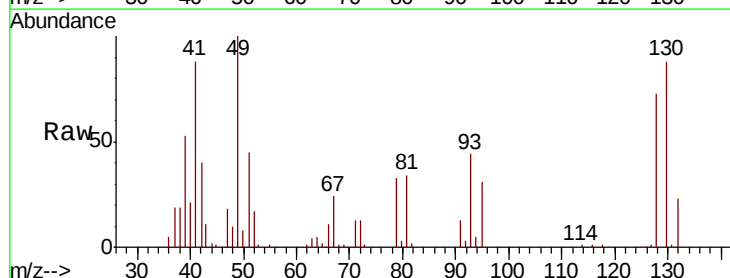
Tgt Ion: 49 Resp: 215541

Ion Ratio Lower Upper

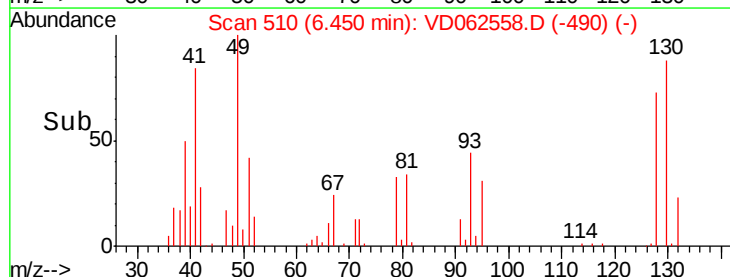
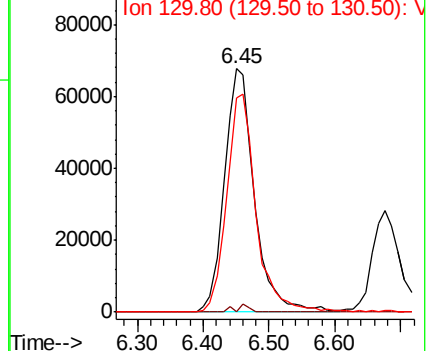
49 100

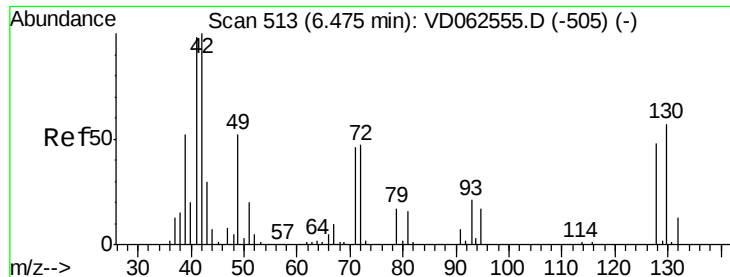
129 0.0 0.0 5.6

130 87.7 75.8 113.8



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





#29

Tetrahydrofuran

Concen: 255.688 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

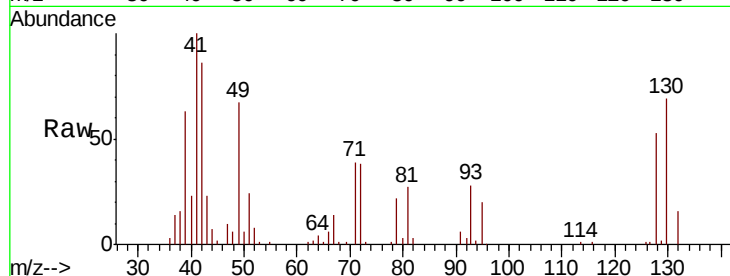
Tot Ion: 42 Resp: 196286

Ion Ratio Lower Upper

42 100

72 43.7 34.5 51.7

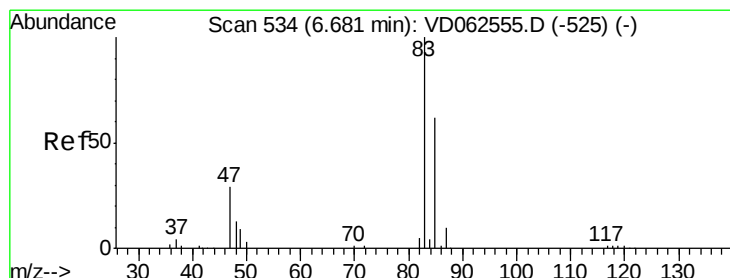
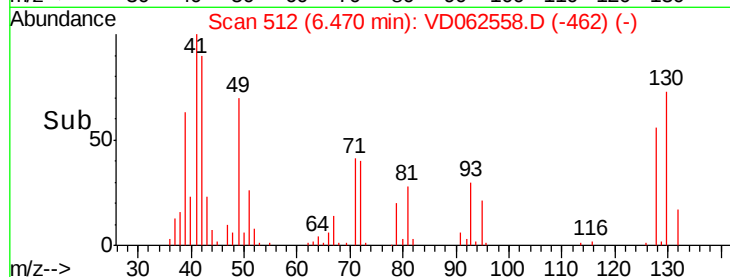
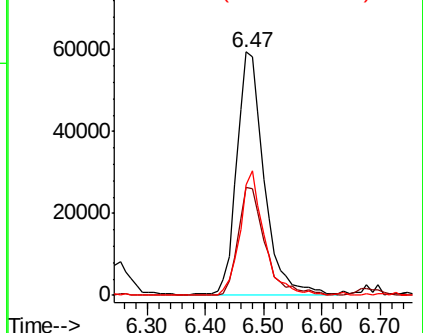
71 44.9 33.0 49.6



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: 52.276 ug/l

RT: 6.68 min Scan# 533

Delta R.T. -0.00 min

Lab File: VD062558.D

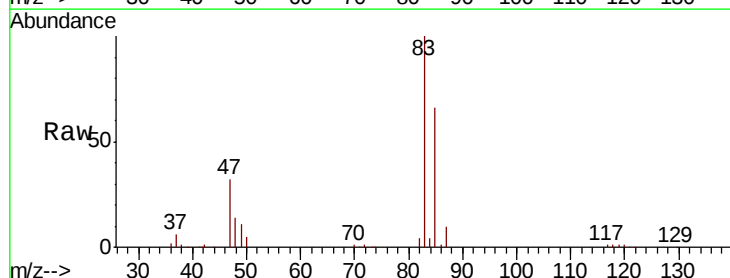
Acq: 31 May 2019 12:20

Tgt Ion: 83 Resp: 801410

Ion Ratio Lower Upper

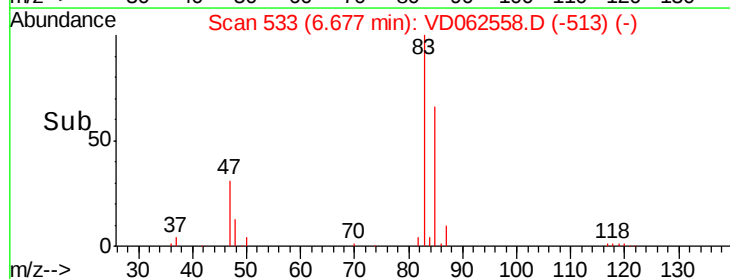
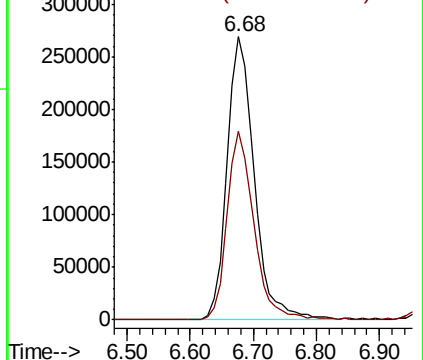
83 100

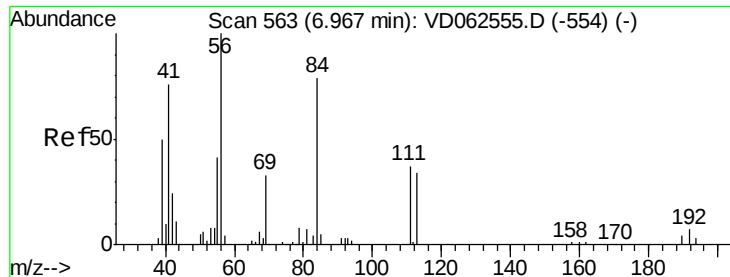
85 66.5 49.4 74.0



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

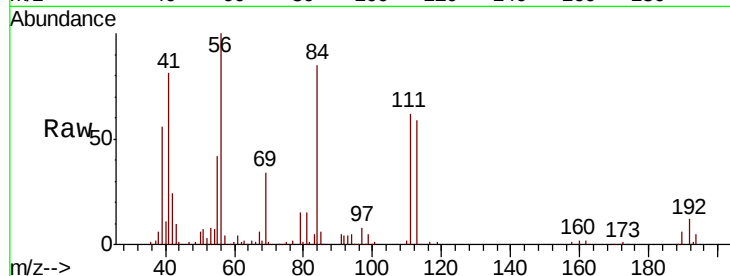




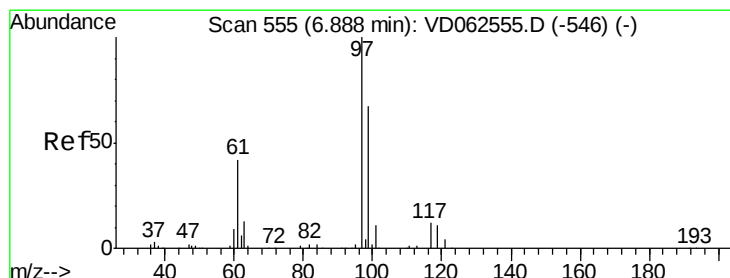
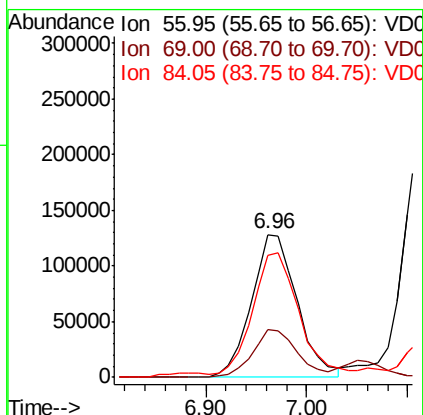
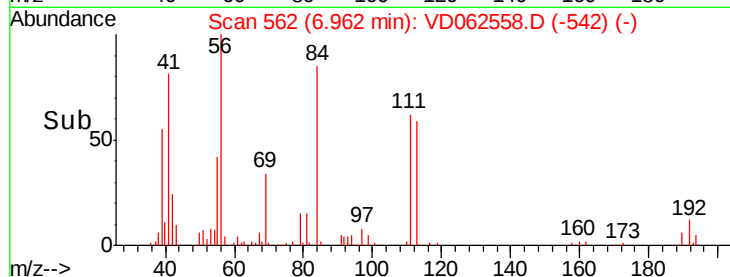
#31
Cvclohexane
Concen: 46.844 ug/l
RT: 6.96 min Scan# 562
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 402929
Ion Ratio Lower Upper
56 100
69 33.5 26.2 39.2
84 85.0 65.2 97.8

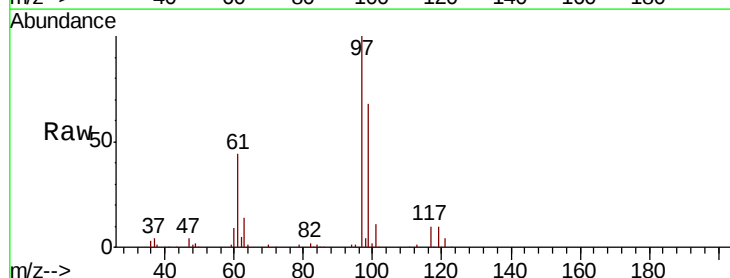


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

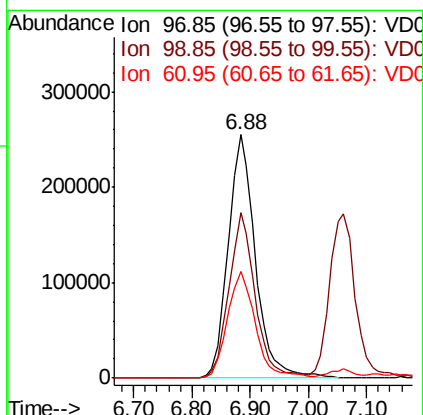
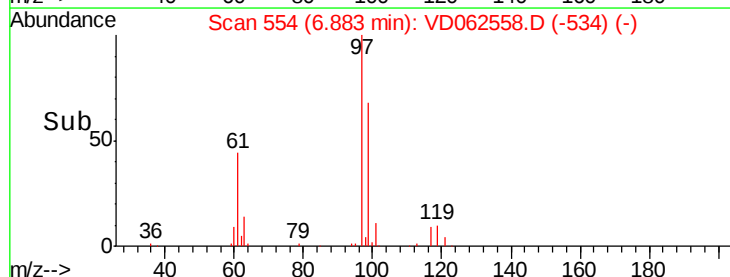


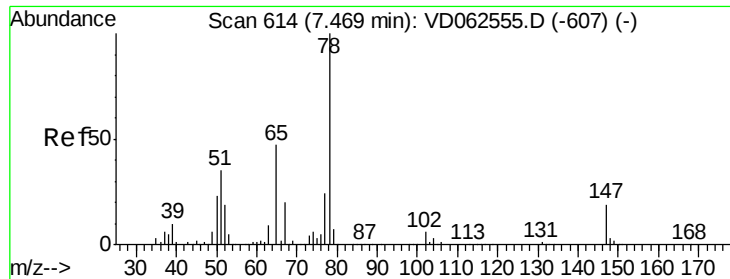
#32
1,1,1-Trichloroethane
Concen: 51.738 ug/l
RT: 6.88 min Scan# 554
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 97 Resp: 825464
Ion Ratio Lower Upper
97 100
99 68.2 53.6 80.4
61 43.6 33.9 50.9



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





#33

1,2-Dichloroethane-d4

Concen: 54.321 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

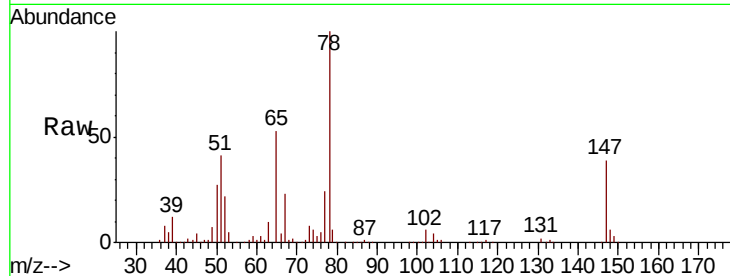
VSTDCCC050

Tot Ion: 65 Resp: 503084

Ion Ratio Lower Upper

65 100

67 43.9 0.0 83.6



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

200000

150000

100000

50000

0

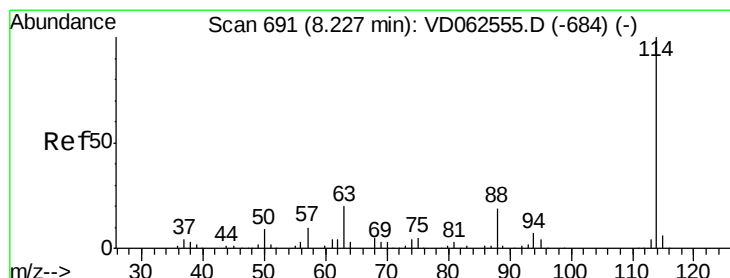
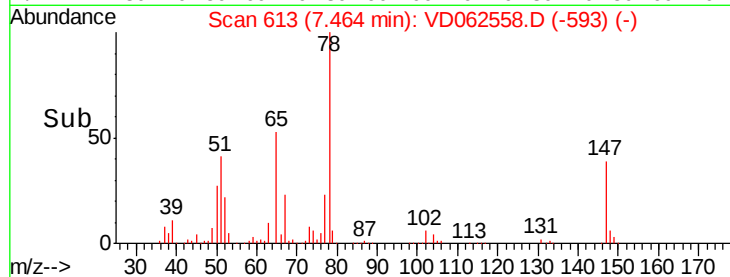
Time-->

7.30

7.40

7.50

7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

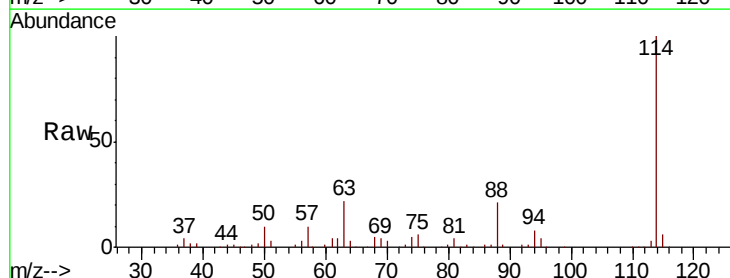
Tgt Ion: 114 Resp: 1034884

Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.6

88 21.1 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.23

500000

400000

300000

200000

100000

0

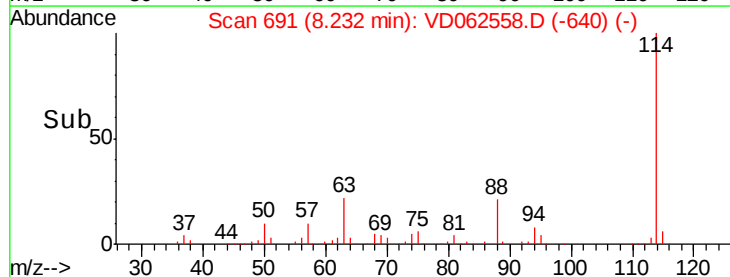
Time-->

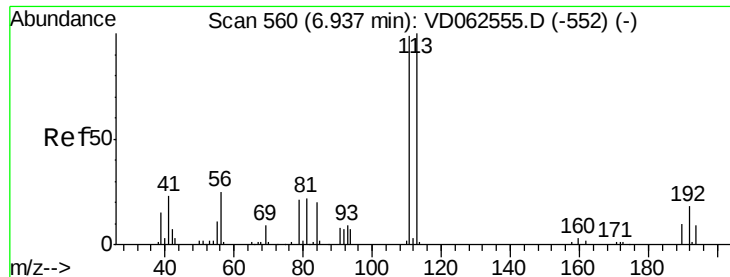
8.10

8.20

8.30

8.40

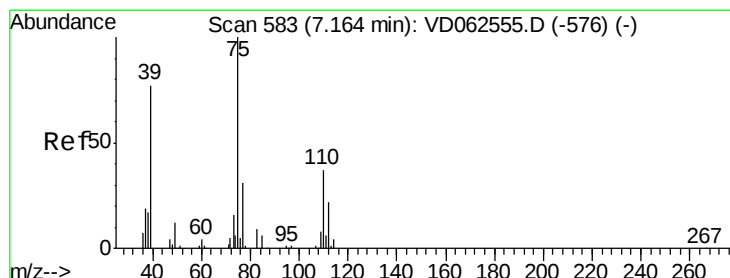
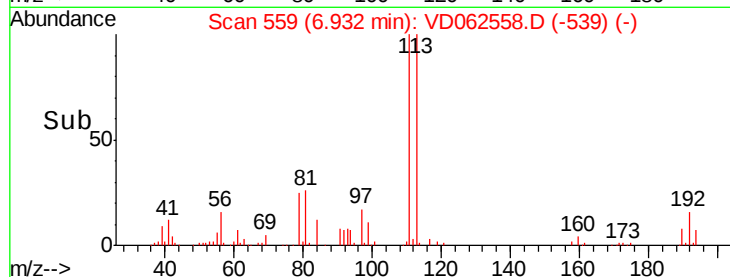
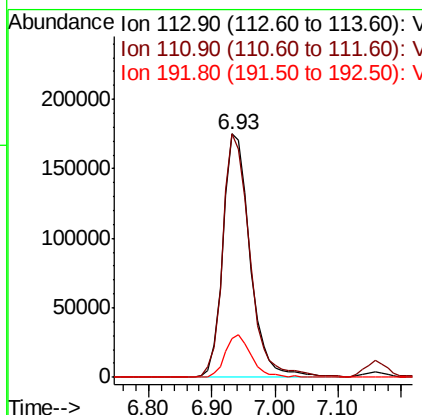
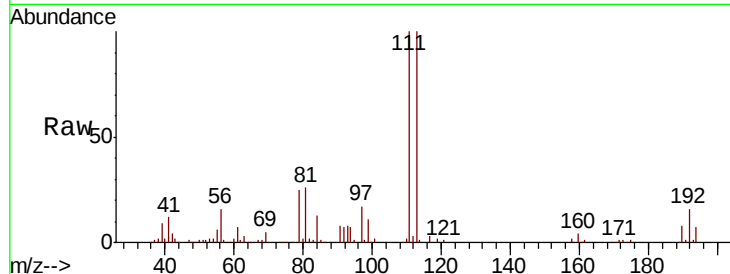




#35
 Dibromofluoromethane
 Concen: 55.520 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

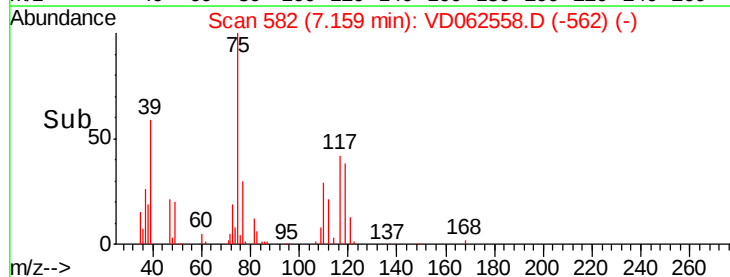
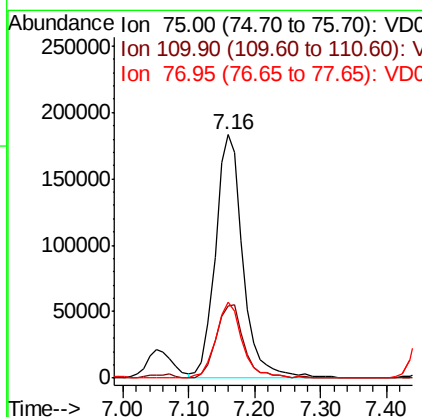
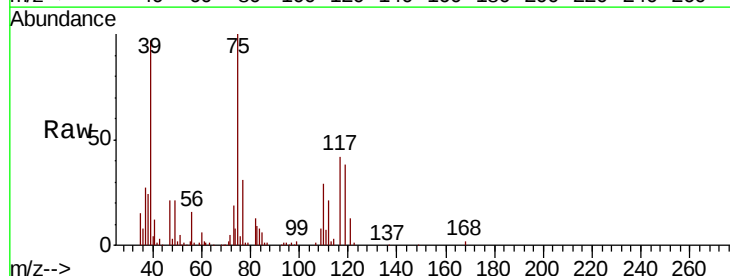
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

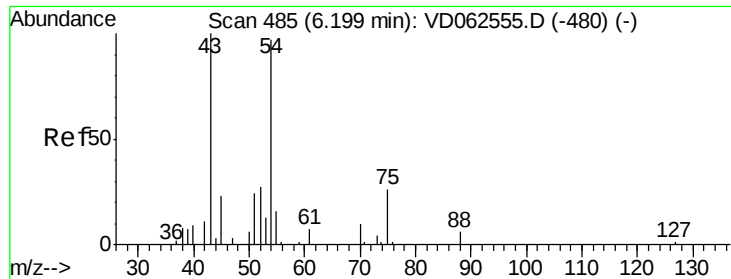
Tot Ion	Ratio	Lower	Upper
113	100		
111	99.9	78.8	118.2
192	16.1	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 50.837 ug/l
 RT: 7.16 min Scan# 582
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	29.5	18.3	54.8
77	31.4	24.4	36.6

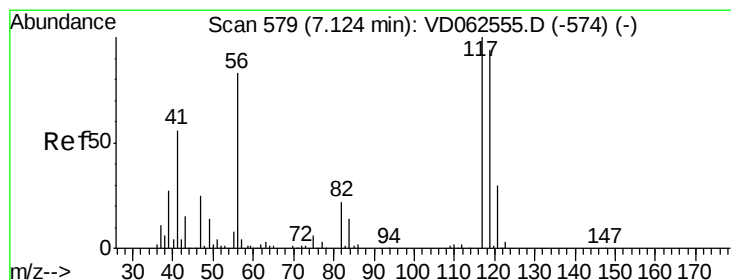
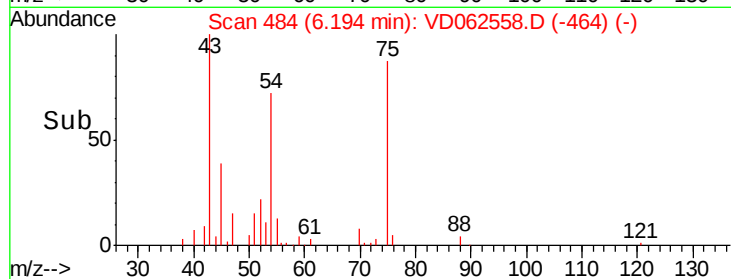
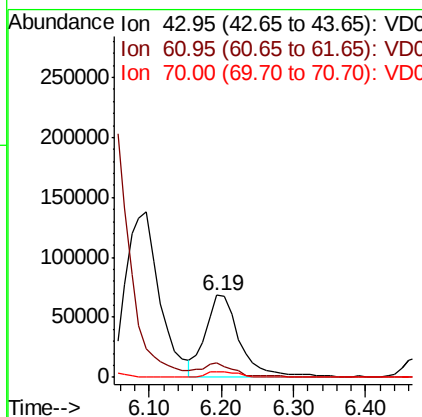
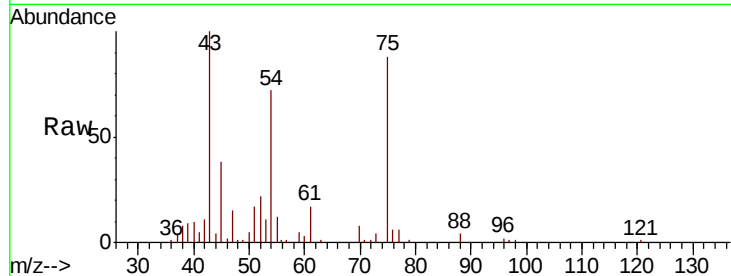




#37
Ethyl Acetate
Concen: 51.033 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

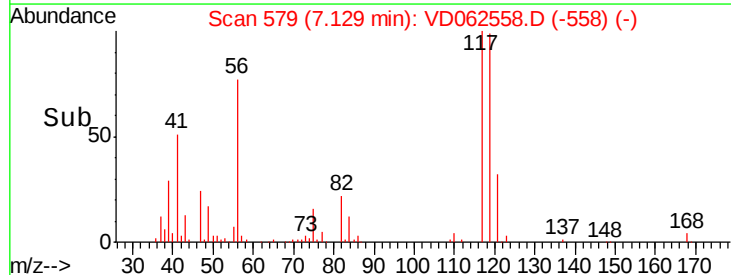
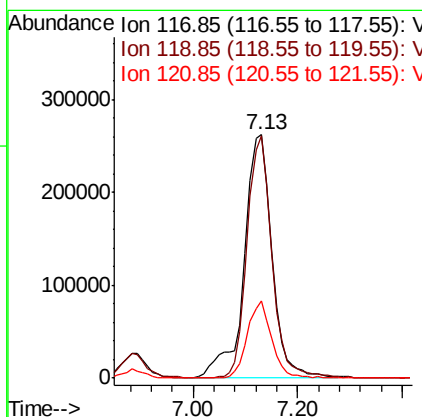
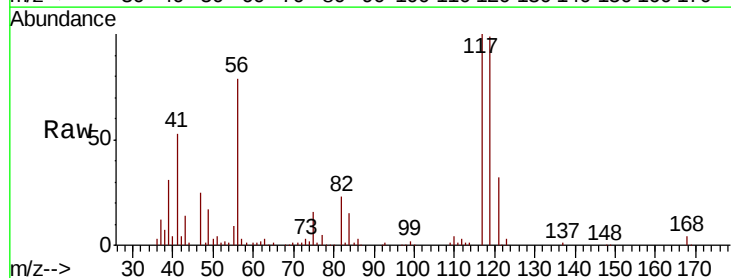
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

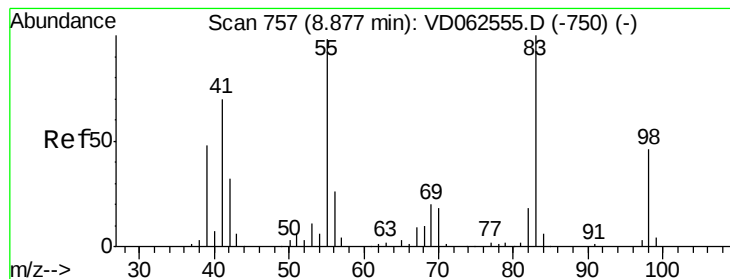
Tot Ion: 43 Resp: 221644
Ion Ratio Lower Upper
43 100
61 17.3 9.8 14.8#
70 7.5 6.5 9.7



#38
Carbon Tetrachloride
Concen: 61.525 ug/l
RT: 7.13 min Scan# 579
Delta R.T. 0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 117 Resp: 943663
Ion Ratio Lower Upper
117 100
119 99.4 71.4 107.2
121 31.6 22.5 33.7





#39

Methvlcvclohexane

Concen: 51.907 ug/l

RT: 8.88 min Scan# 757

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

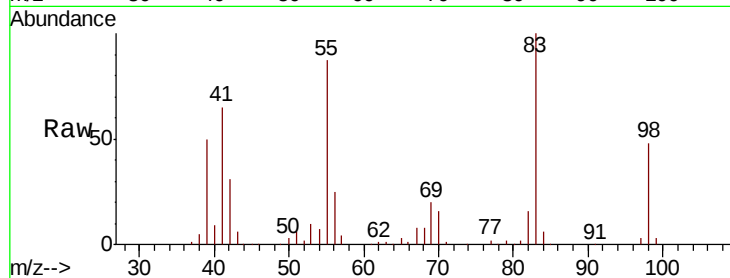
Tot Ion: 83 Resp: 452731

Ion Ratio Lower Upper

83 100

55 86.6 78.7 118.1

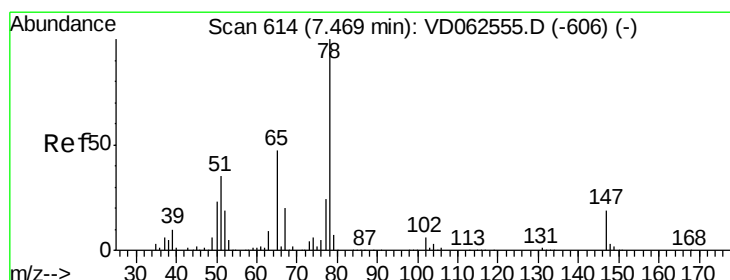
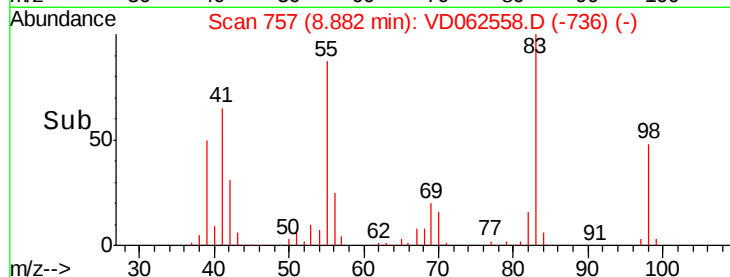
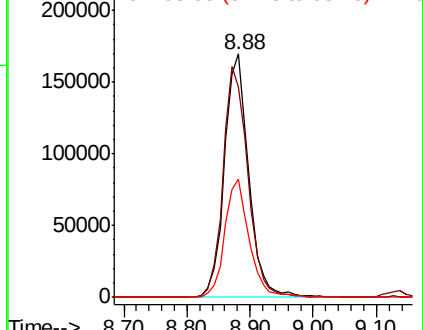
98 48.4 37.2 55.8



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: 50.041 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD062558.D

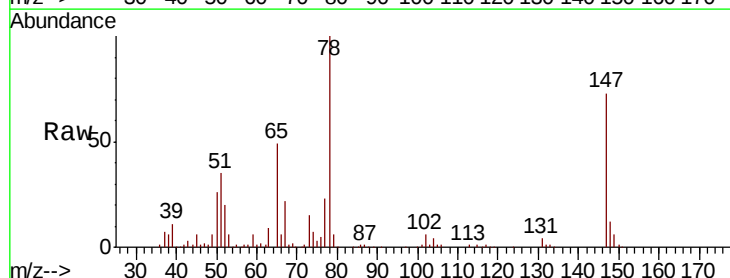
Acq: 31 May 2019 12:20

Tgt Ion: 78 Resp: 1011796

Ion Ratio Lower Upper

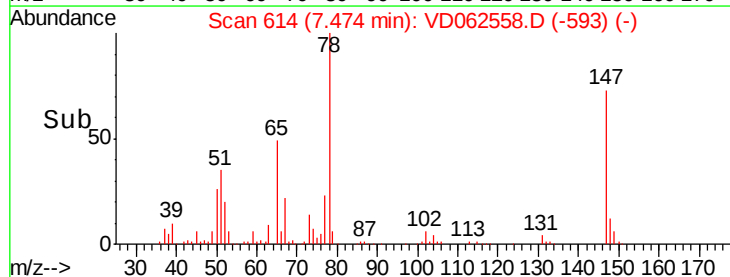
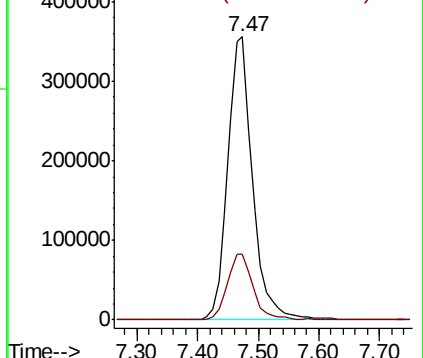
78 100

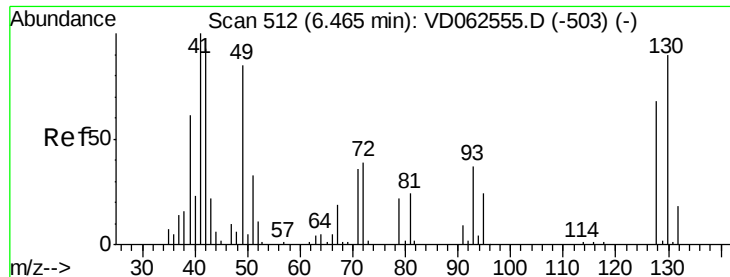
77 23.3 19.1 28.7



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

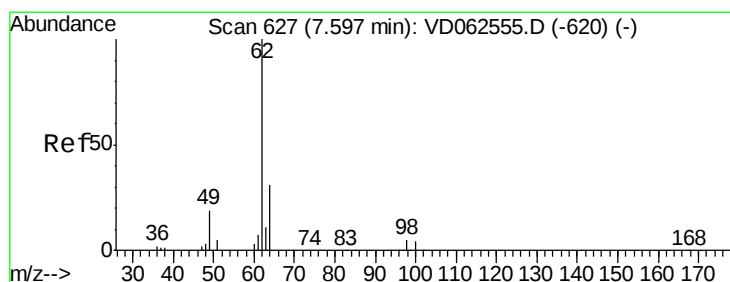
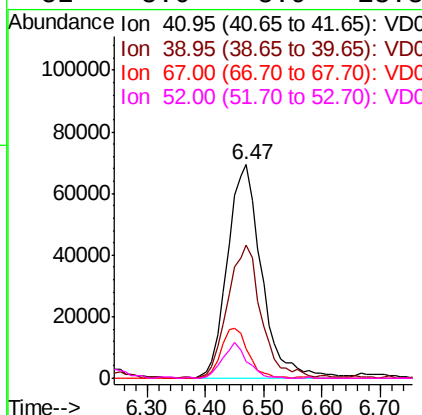
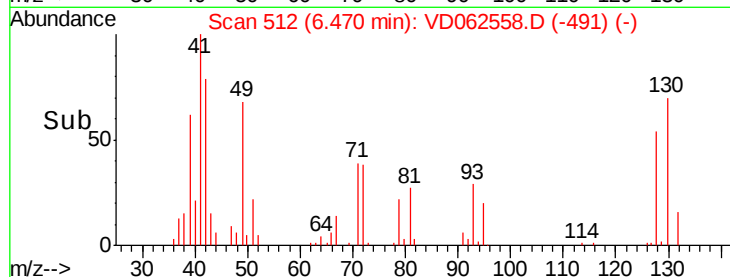
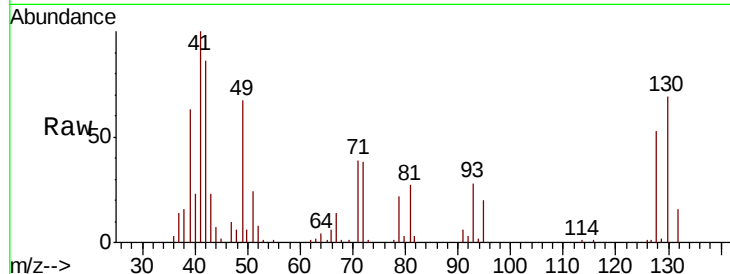




#41
Methacrylonitrile
Concen: 55.209 ug/l
RT: 6.47 min Scan# 512
Delta R.T. 0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

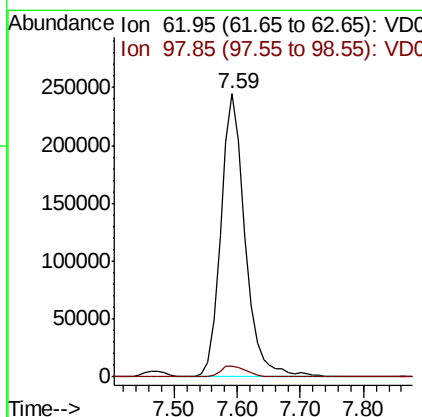
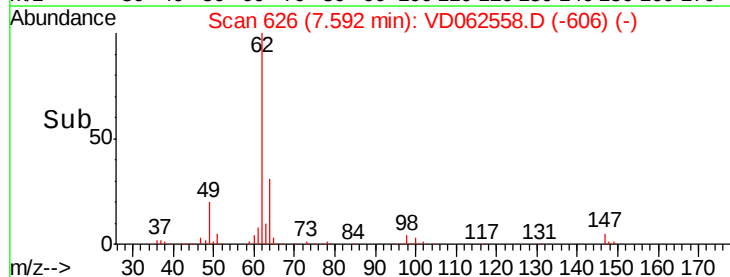
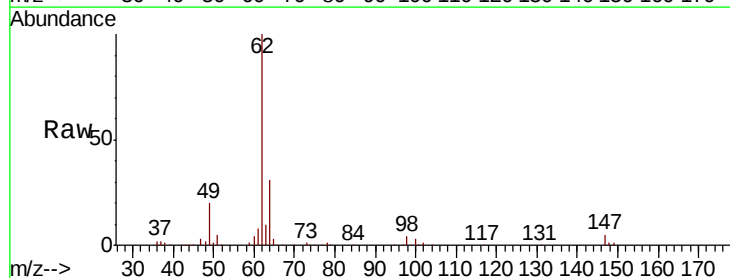
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

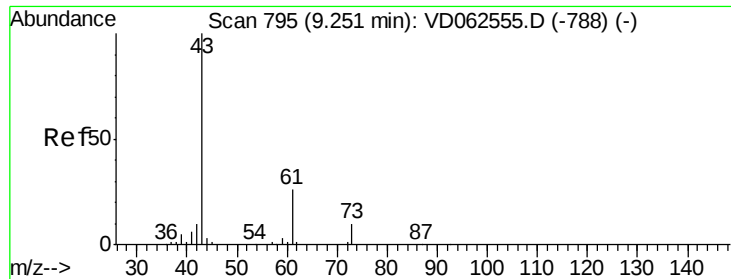
Tot Ion: 41 Resp: 282168
Ion Ratio Lower Upper
41 100
39 62.6 49.0 73.6
67 13.6 15.5 23.3#
52 8.0 8.9 13.3#



#42
1,2-Dichloroethane
Concen: 57.771 ug/l
RT: 7.59 min Scan# 626
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 62 Resp: 650656
Ion Ratio Lower Upper
62 100
98 3.9 0.0 11.0



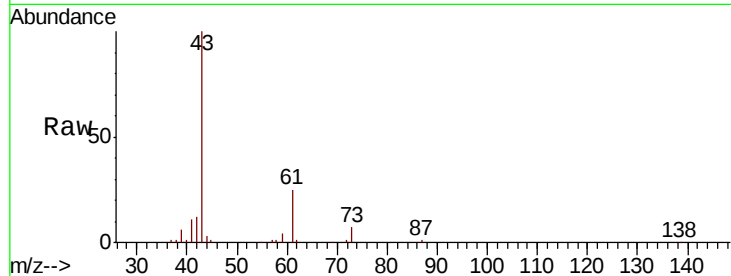


#43

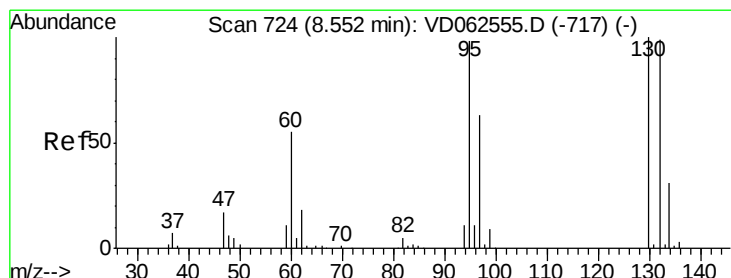
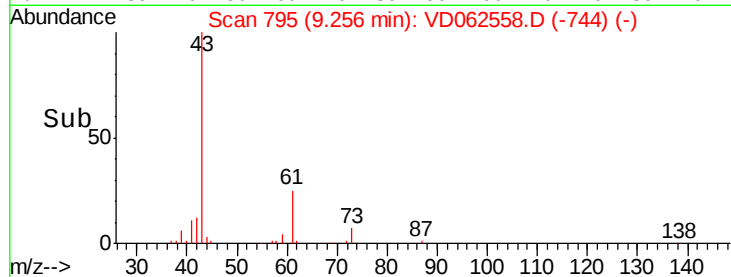
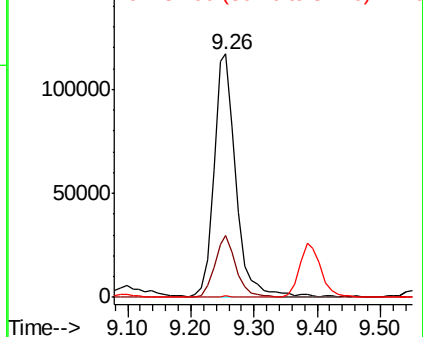
Isopropyl Acetate
 Concen: 52.207 ug/l
 RT: 9.26 min Scan# 795
 Delta R.T. 0.01 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 282207
 Ion Ratio Lower Upper
 43 100
 61 25.3 20.5 30.7
 87 0.5 0.2 0.2#



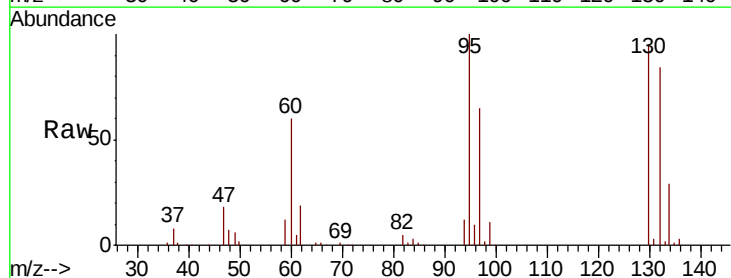
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



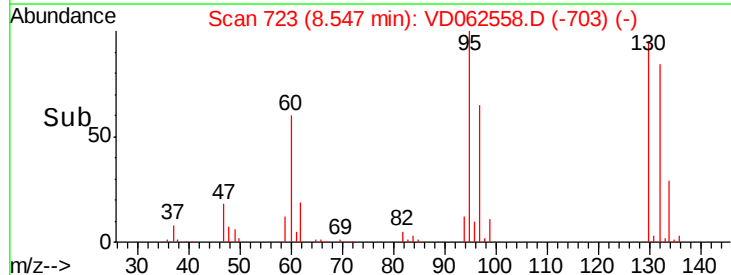
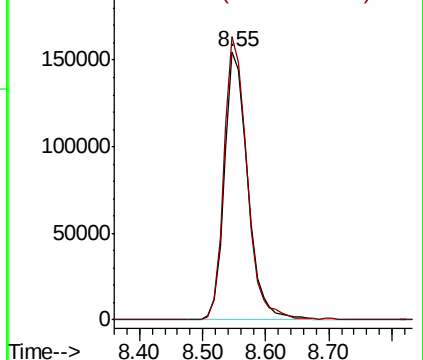
#44

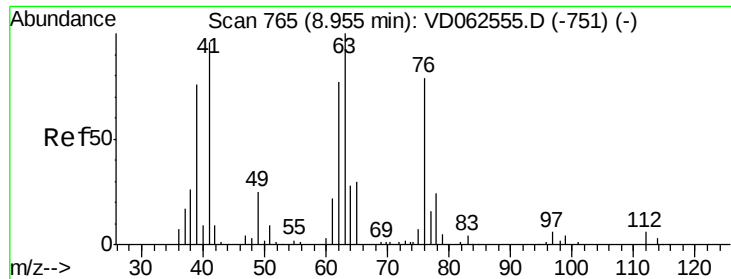
Trichloroethene
 Concen: 49.374 ug/l
 RT: 8.55 min Scan# 723
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion:130 Resp: 398829
 Ion Ratio Lower Upper
 130 100
 95 105.5 0.0 196.6



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





#45

1,2-Dichloropropane

Concen: 51.701 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampled :

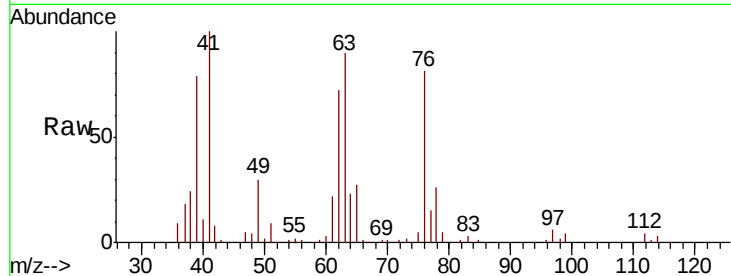
VSTDCCC050

Tot Ion: 63 Resp: 256286

Ion Ratio Lower Upper

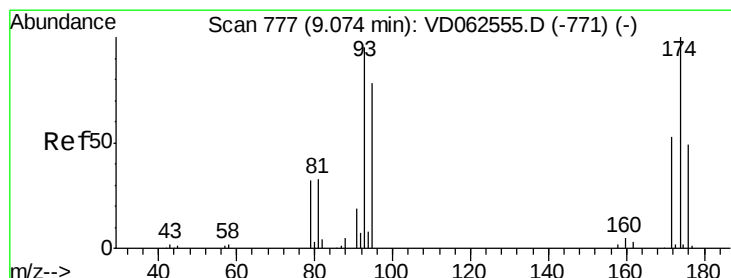
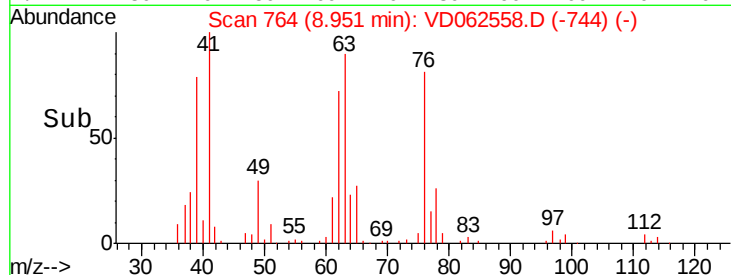
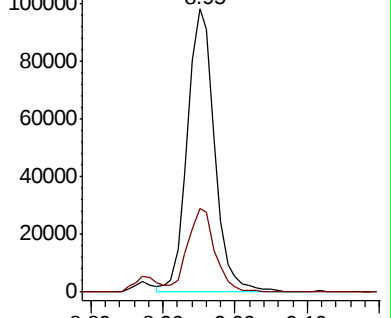
63 100

65 29.7 23.7 35.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 55.345 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

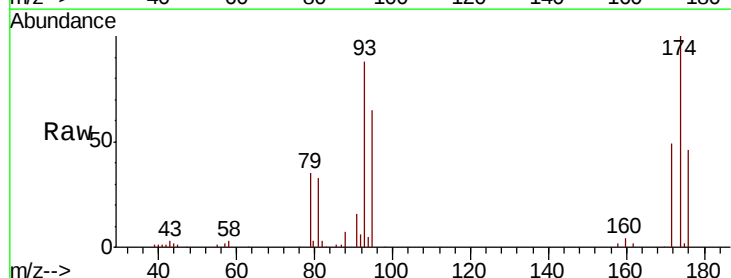
Tgt Ion: 93 Resp: 230446

Ion Ratio Lower Upper

93 100

95 74.8 66.1 99.1

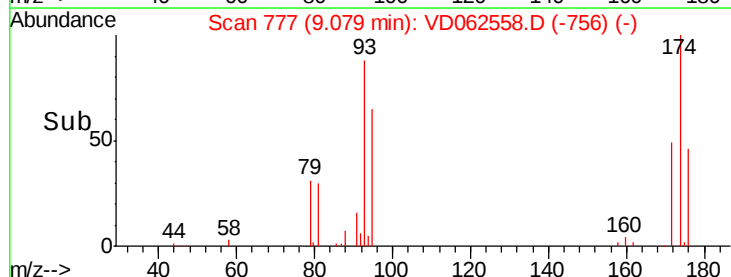
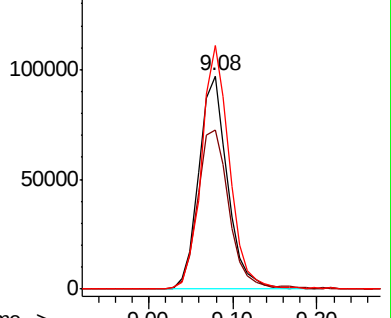
174 114.3 84.2 126.4

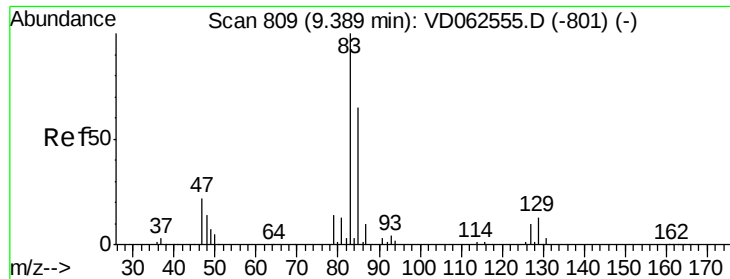


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 54.891 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

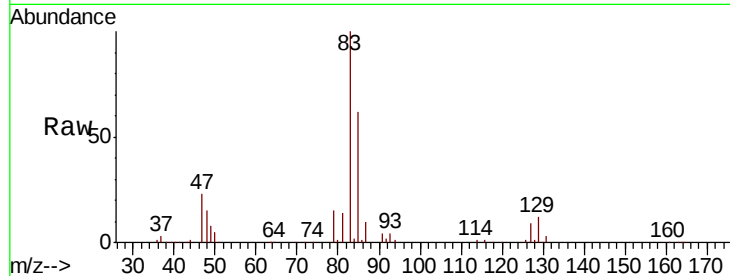
Tot Ion: 83 Resp: 629743

Ion Ratio Lower Upper

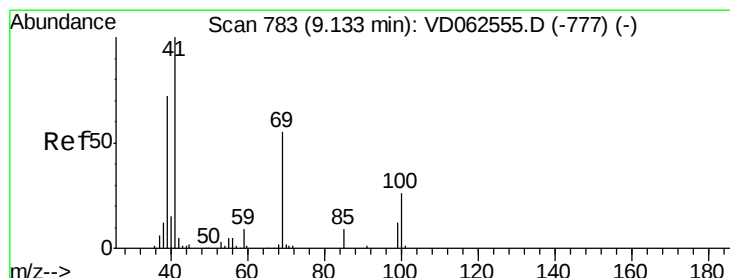
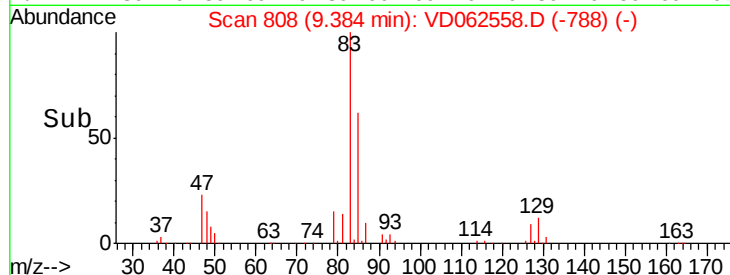
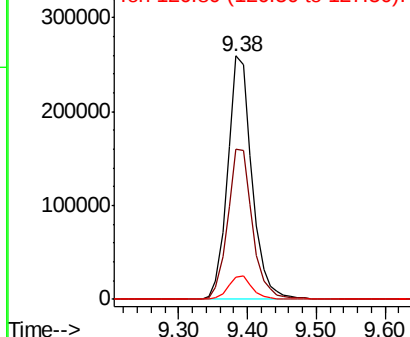
83 100

85 61.7 51.8 77.8

127 9.2 7.8 11.6



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



#48

Methyl methacrylate

Concen: 54.244 ug/l

RT: 9.13 min Scan# 782

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

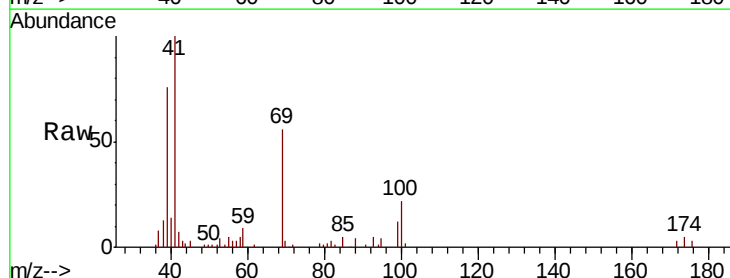
Tgt Ion: 41 Resp: 195295

Ion Ratio Lower Upper

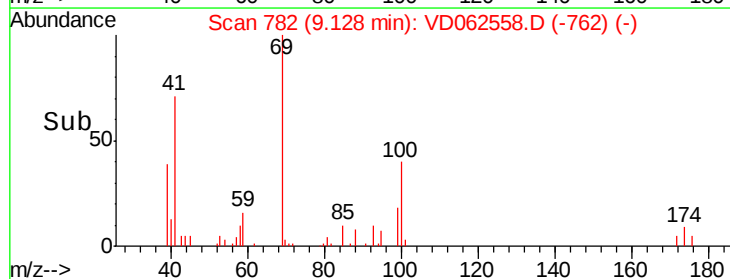
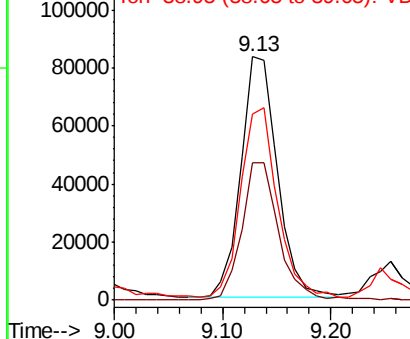
41 100

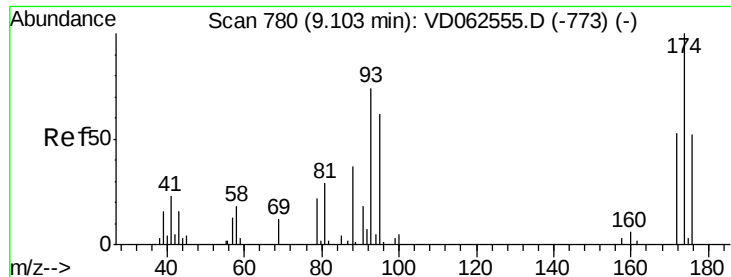
69 56.3 43.6 65.4

39 76.2 58.1 87.1



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

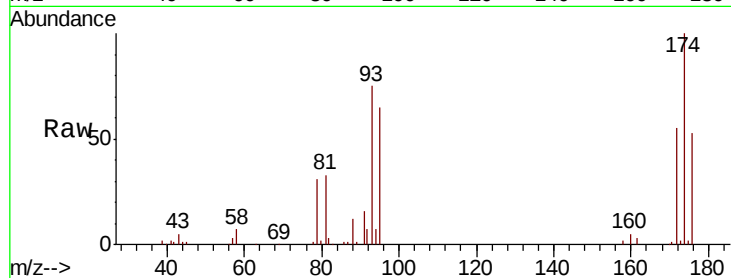




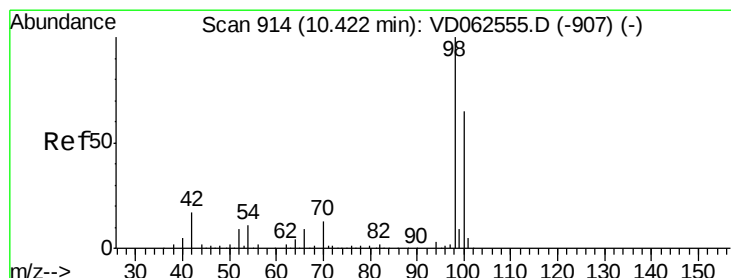
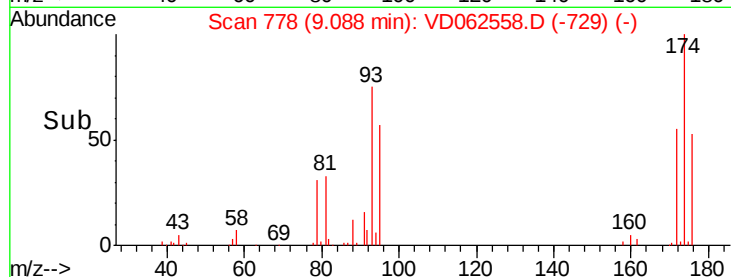
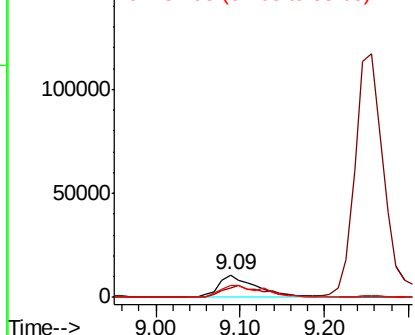
#49
1,4-Dioxane
Concen: 1147.096 ug/l
RT: 9.09 min Scan# 778
Delta R.T. -0.01 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 88 Resp: 33545
Ion Ratio Lower Upper
88 100
43 42.2 37.1 55.7
58 53.6 39.3 58.9

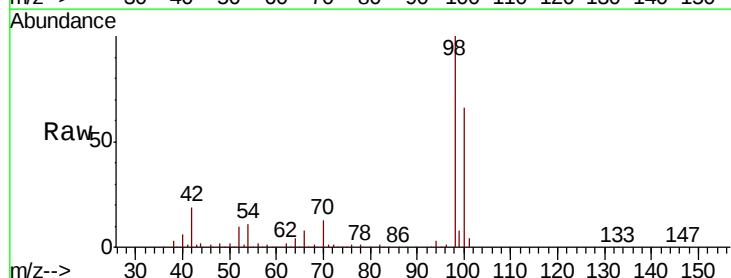


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

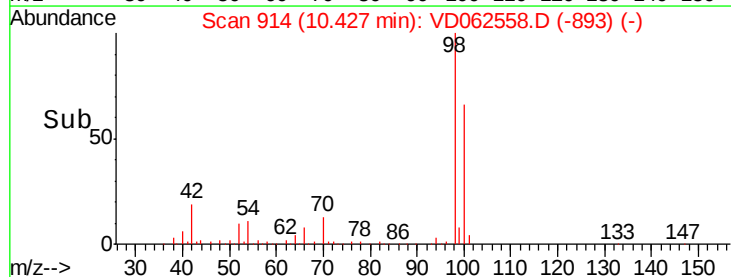
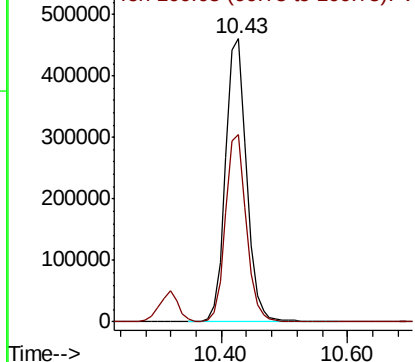


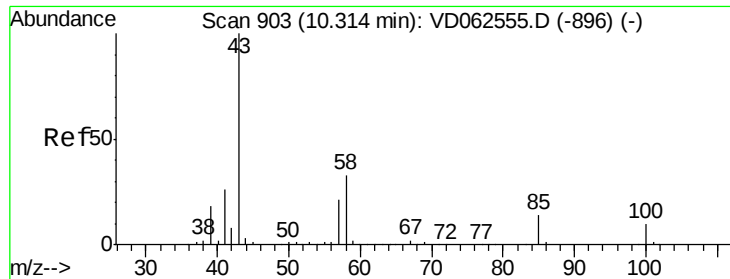
#50
Toluene-d8
Concen: 51.431 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 98 Resp: 1062688
Ion Ratio Lower Upper
98 100
100 66.2 52.3 78.5



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





#51

4-Methyl-2-Pentanone

Concen: 271.604 ug/l

RT: 10.32 min Scan# 903

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

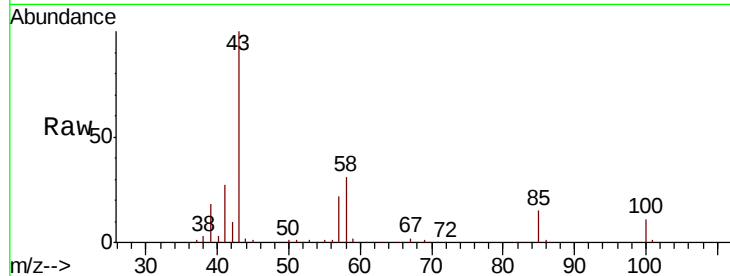
VSTDCCC050

Tot Ion: 43 Resp: 1024302

Ion Ratio Lower Upper

43 100

58 31.3 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.32

400000

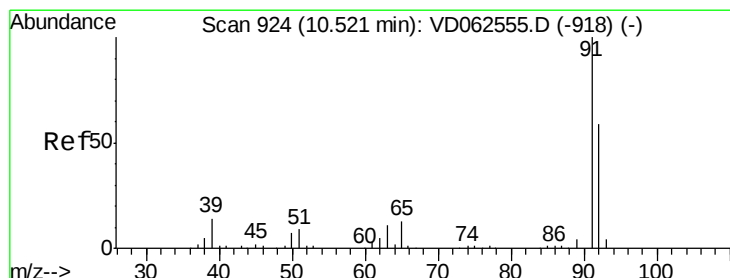
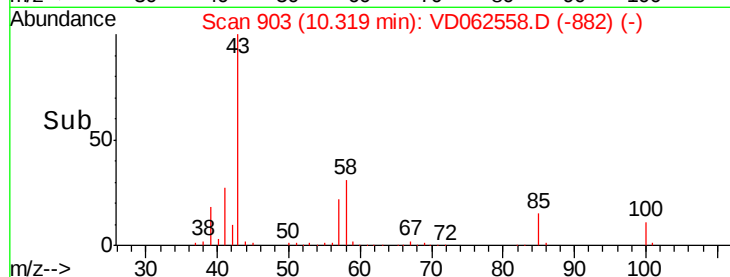
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 49.343 ug/l

RT: 10.53 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD062558.D

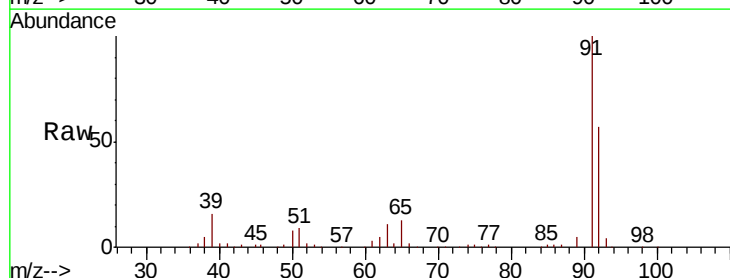
Acq: 31 May 2019 12:20

Tgt Ion: 92 Resp: 680449

Ion Ratio Lower Upper

92 100

91 175.7 135.5 203.3



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

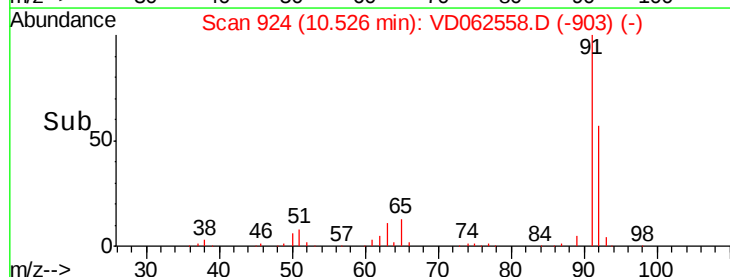
300000

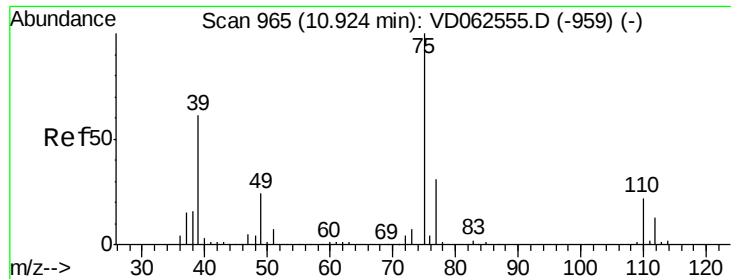
200000

100000

0

Time-->

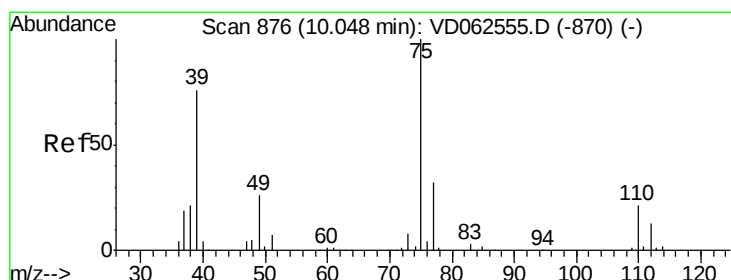
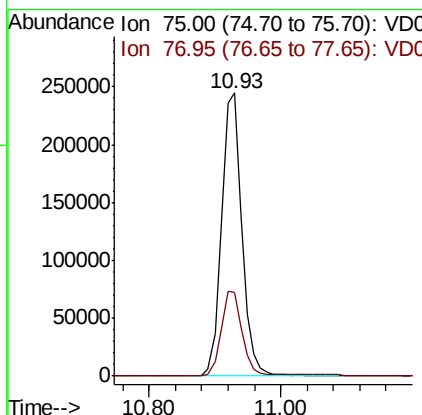
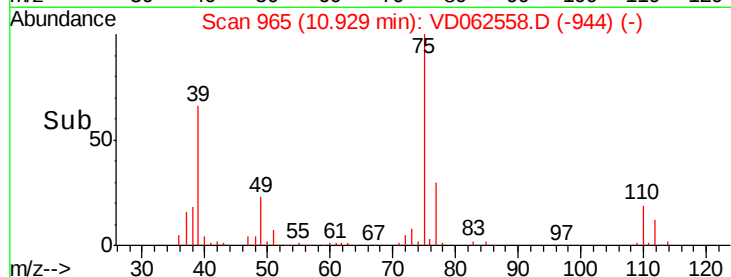
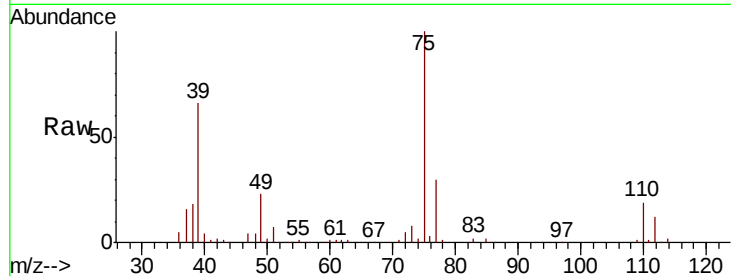




#53
 t-1,3-Dichloropropene
 Concen: 54.416 ug/l
 RT: 10.93 min Scan# 965
 Delta R.T. 0.01 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

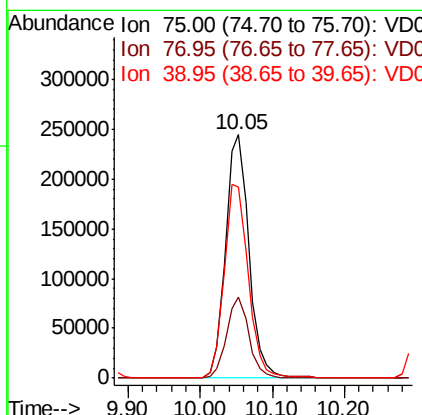
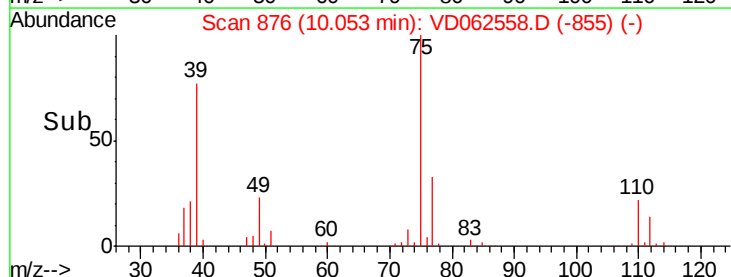
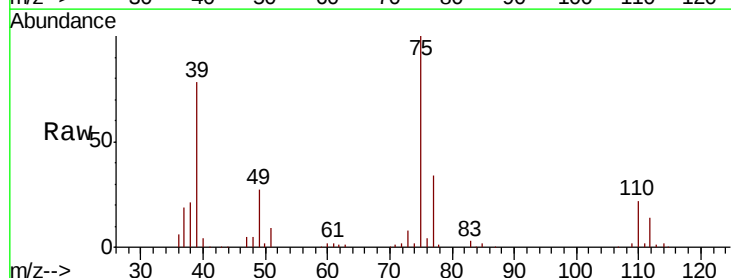
Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

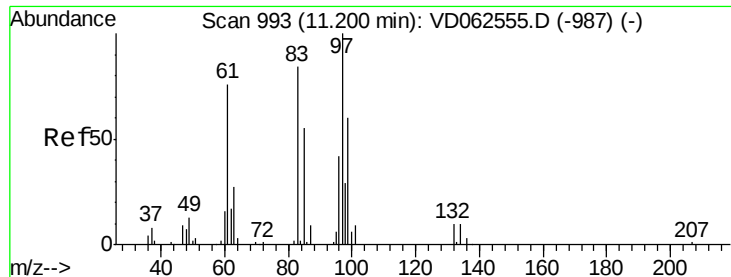
Tot Ion: 75 Resp: 527450
 Ion Ratio Lower Upper
 75 100
 77 29.7 24.5 36.7



#54
 cis-1,3-Dichloropropene
 Concen: 54.773 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion: 75 Resp: 551967
 Ion Ratio Lower Upper
 75 100
 77 33.5 25.7 38.5
 39 78.4 61.0 91.6





#55

1,1,2-Trichloroethane

Concen: 51.584 ug/l

RT: 11.20 min Scan# 993

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 233573

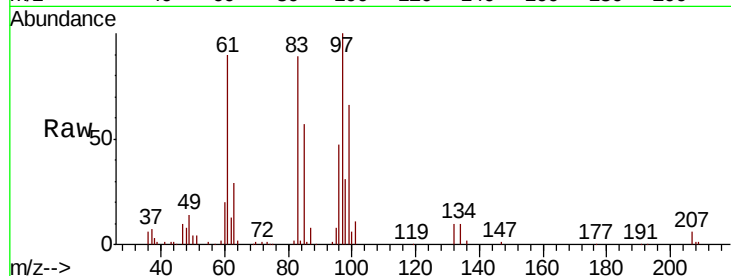
Ion Ratio Lower Upper

97 100

83 89.2 67.3 100.9

85 56.9 43.8 65.8

99 65.8 48.2 72.2

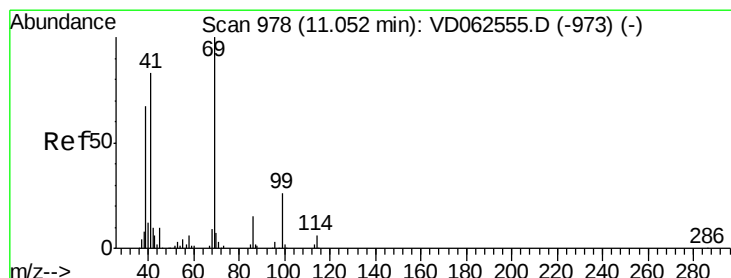
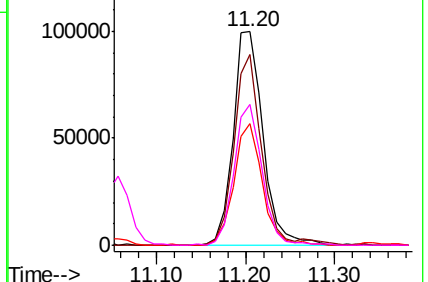
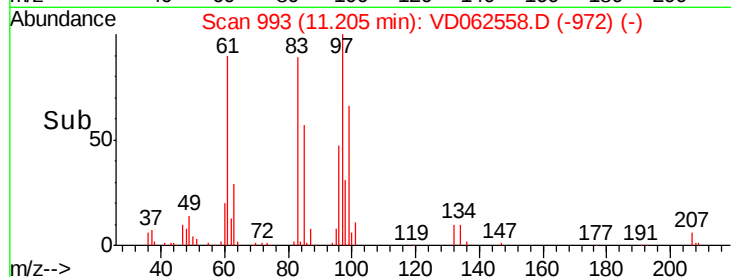


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 57.488 ug/l

RT: 11.06 min Scan# 978

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

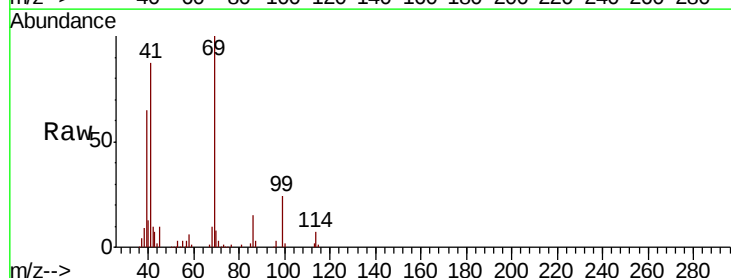
Tgt Ion: 69 Resp: 277445

Ion Ratio Lower Upper

69 100

41 87.4 66.1 99.1

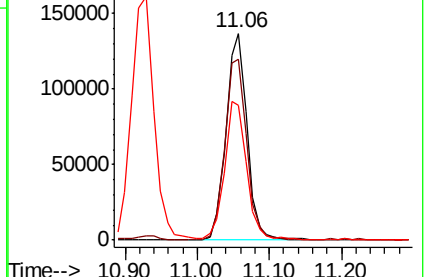
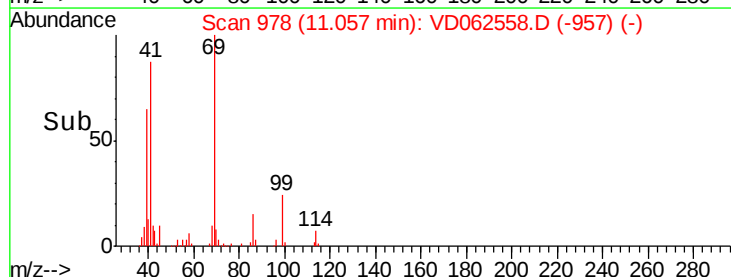
39 65.0 54.2 81.2

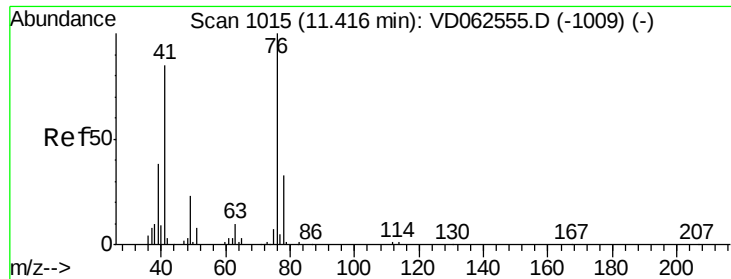


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 53.452 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

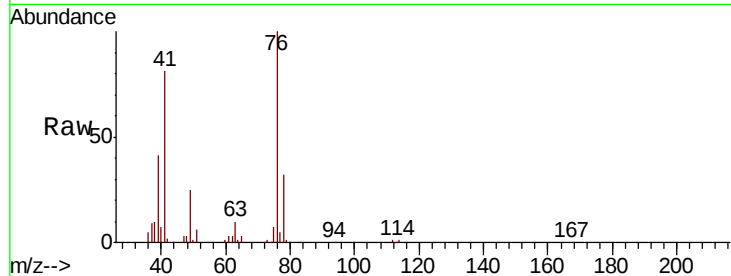
VSTDCCC050

Tot Ion: 76 Resp: 373105

Ion Ratio Lower Upper

76 100

78 31.8 26.7 40.1



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.42

200000

150000

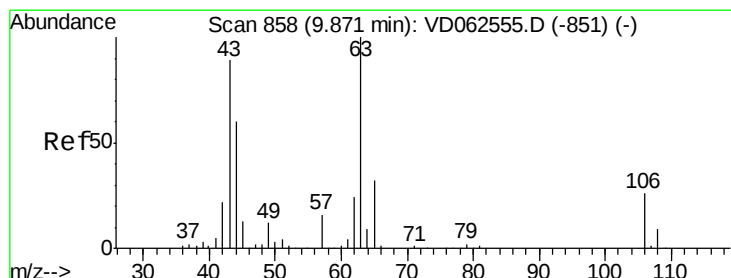
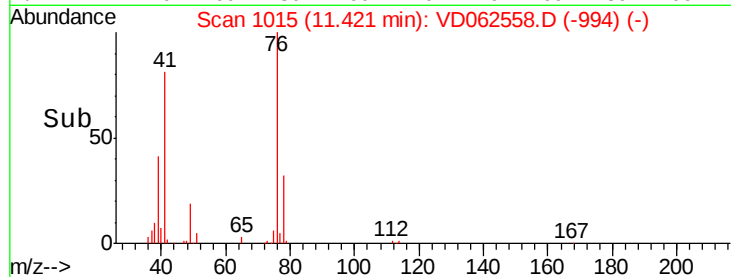
100000

50000

0

11.30 11.40 11.50 11.60

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 273.140 ug/l

RT: 9.88 min Scan# 858

Delta R.T. 0.01 min

Lab File: VD062558.D

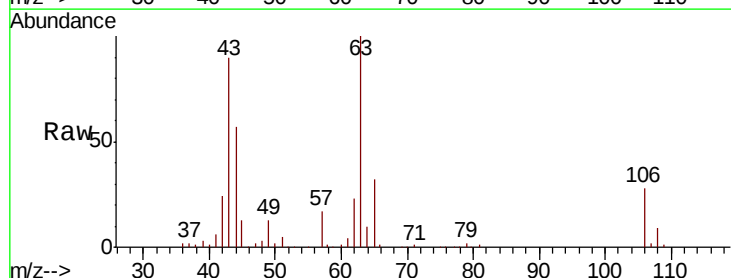
Acq: 31 May 2019 12:20

Tgt Ion: 63 Resp: 676069

Ion Ratio Lower Upper

63 100

106 28.1 21.0 31.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.88

300000

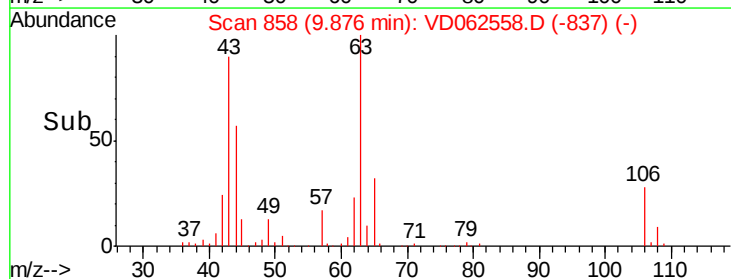
200000

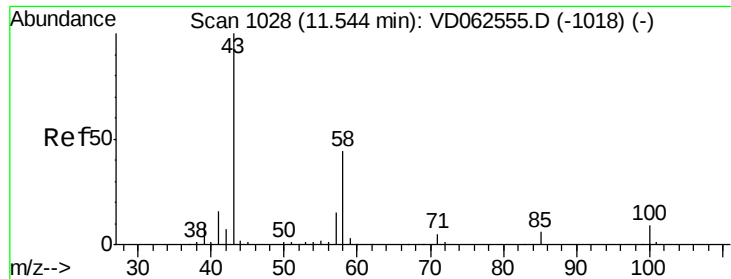
100000

0

9.80 9.90 10.00

Time-->

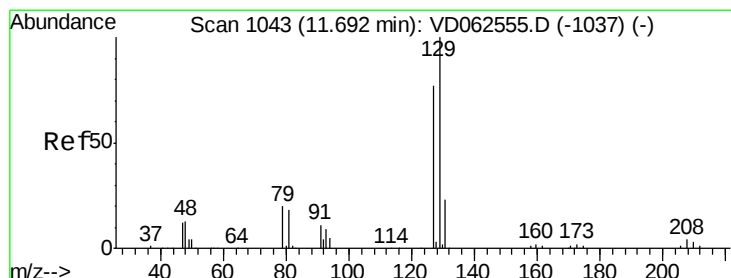
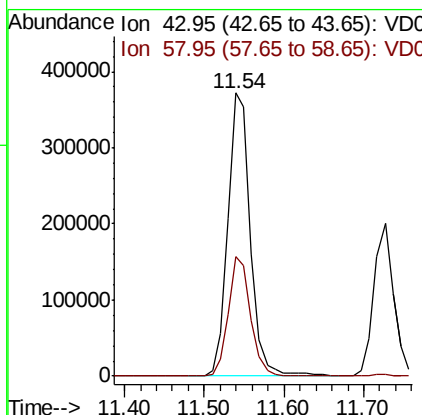
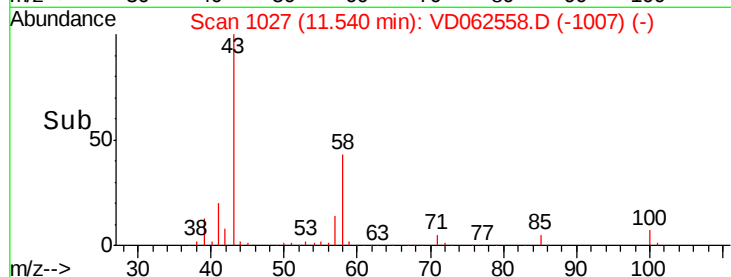
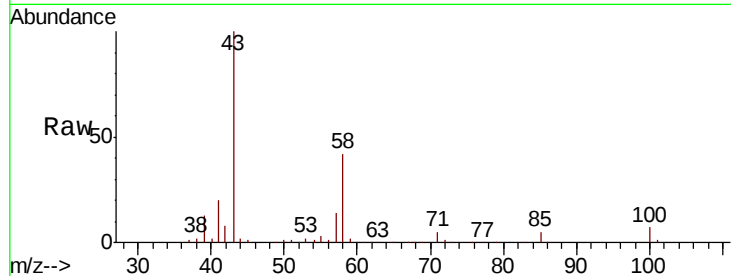




#59
2-Hexanone
Concen: 279.526 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

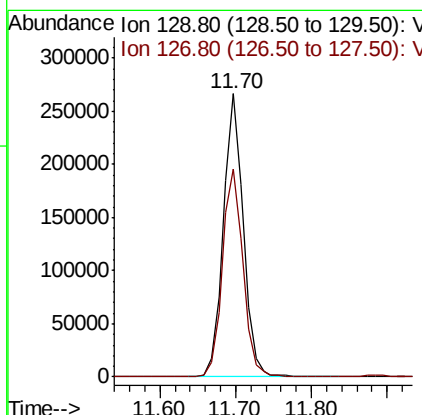
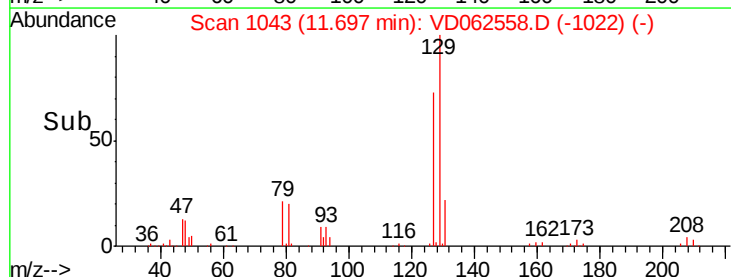
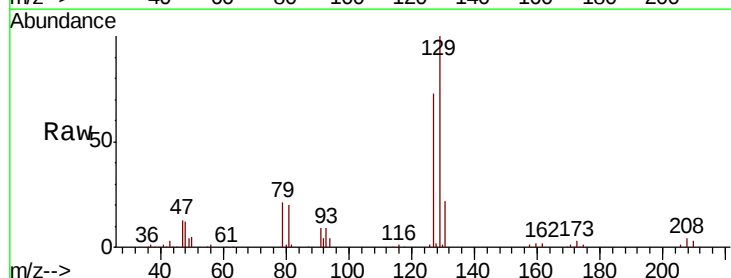
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

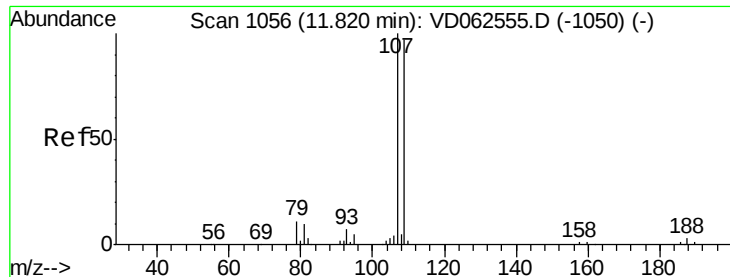
Tot Ion: 43 Resp: 739424
Ion Ratio Lower Upper
43 100
58 42.4 22.0 66.0



#60
Dibromochloromethane
Concen: 55.212 ug/l
RT: 11.70 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 129 Resp: 485824
Ion Ratio Lower Upper
129 100
127 73.5 38.6 115.8





#61

1,2-Dibromoethane

Concen: 54.518 ug/l

RT: 11.82 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

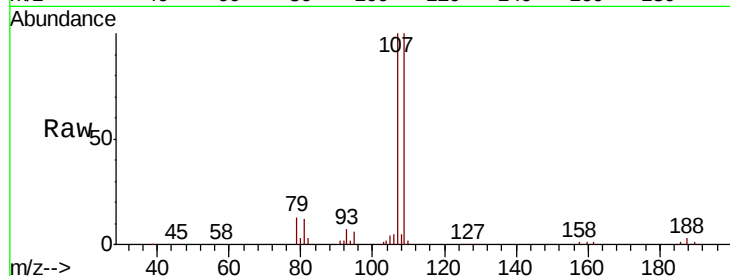
VSTDCCC050

Tot Ion:107 Resp: 296958

Ion Ratio Lower Upper

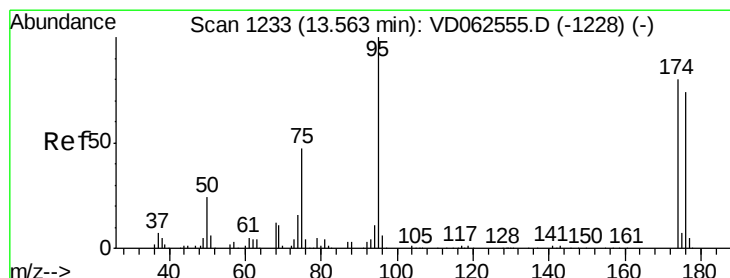
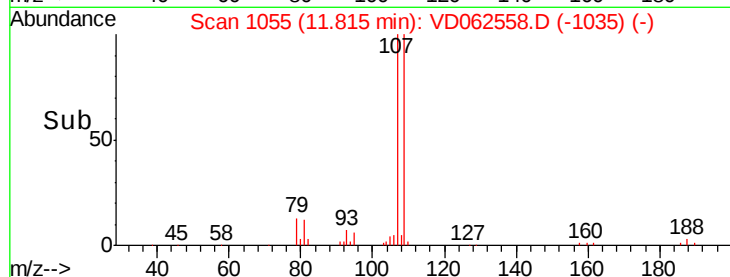
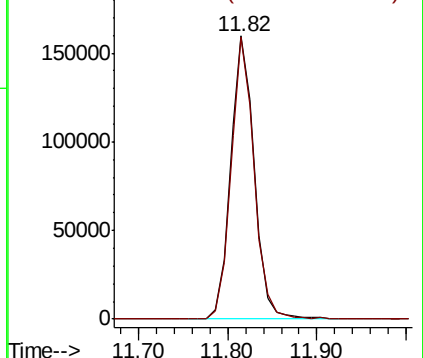
107 100

109 99.7 77.3 115.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 56.001 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

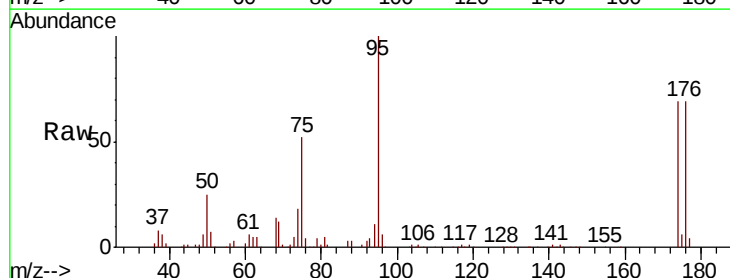
Tgt Ion: 95 Resp: 521830

Ion Ratio Lower Upper

95 100

174 69.5 0.0 160.2

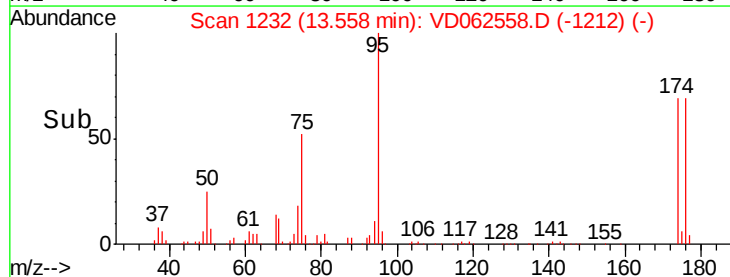
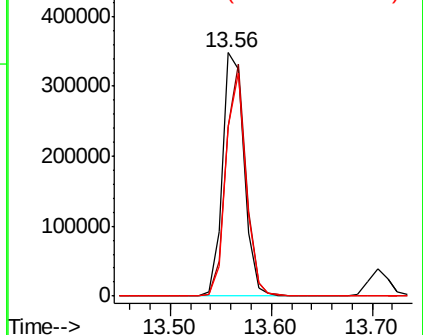
176 69.5 0.0 148.0

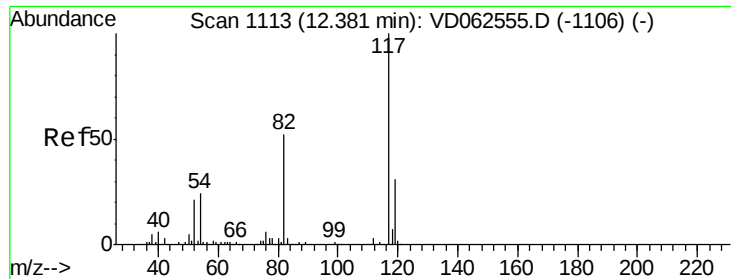


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

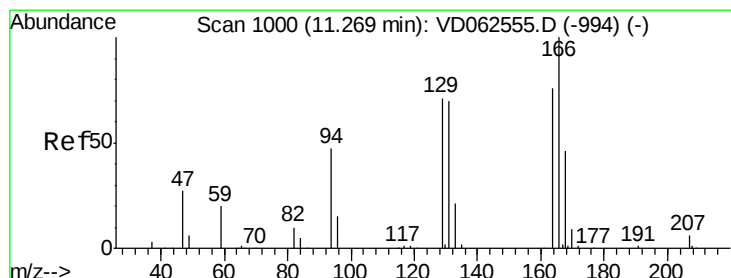
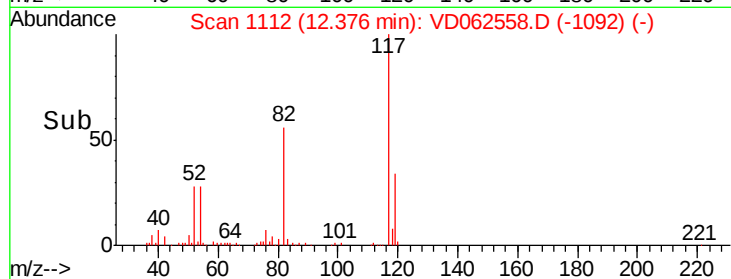
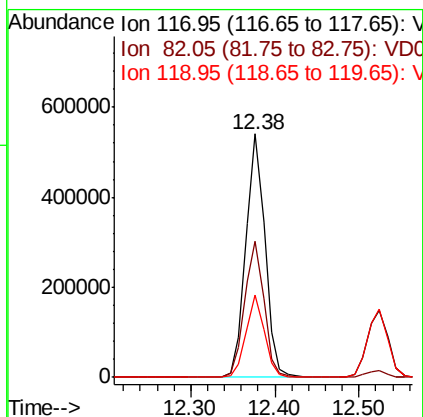
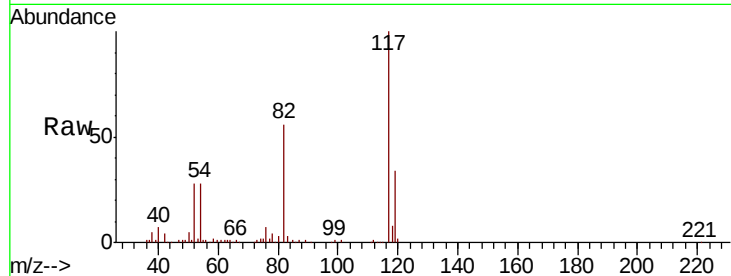




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

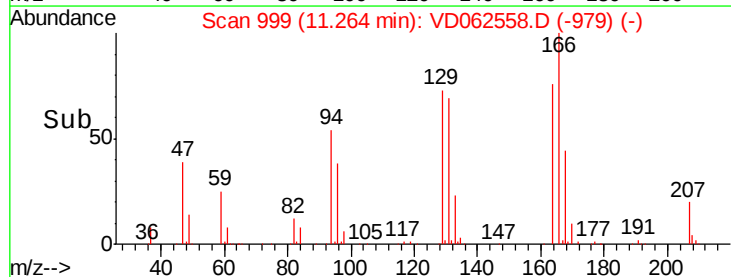
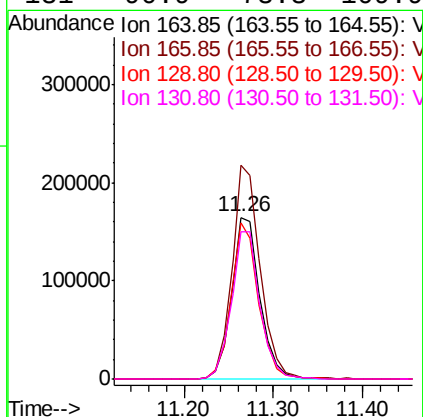
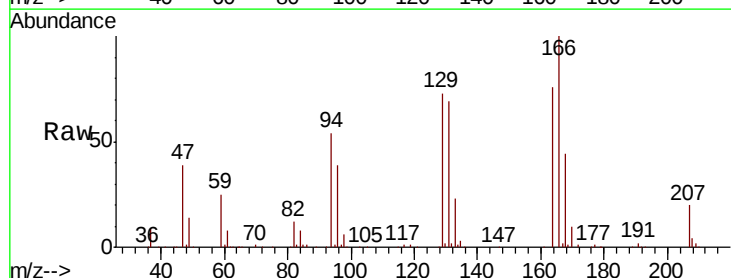
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

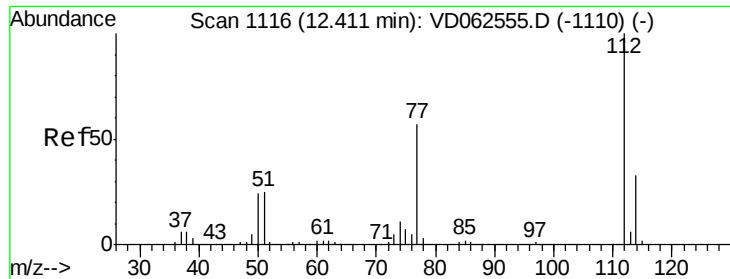
Tot Ion:117 Resp: 865386
Ion Ratio Lower Upper
117 100
82 55.9 41.4 62.2
119 33.6 24.9 37.3



#64
Tetrachloroethene
Concen: 47.817 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion:164 Resp: 365796
Ion Ratio Lower Upper
164 100
166 132.3 105.3 157.9
129 97.1 75.3 112.9
131 90.9 73.3 109.9

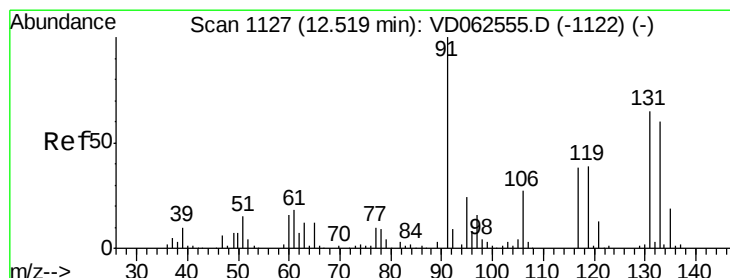
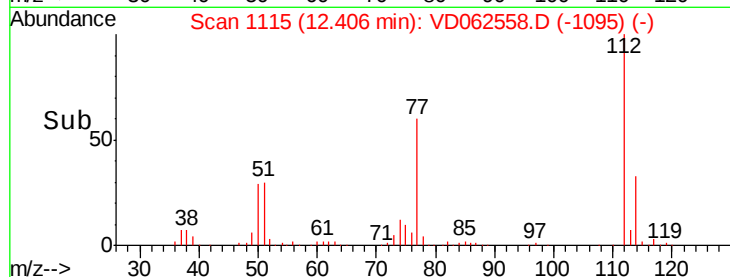
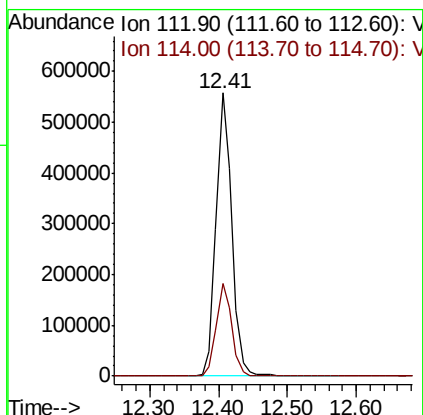
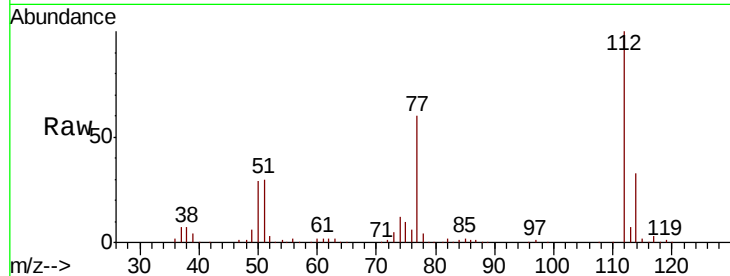




#65
Chlorobenzene
Concen: 52.106 ug/l
RT: 12.41 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

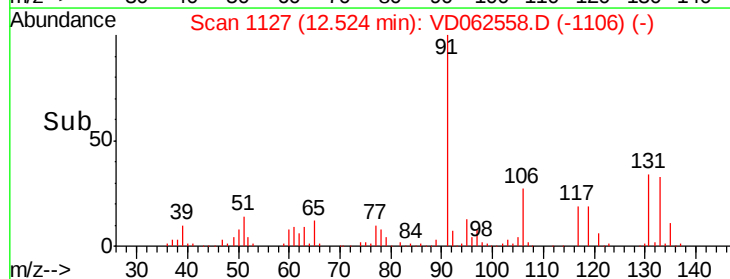
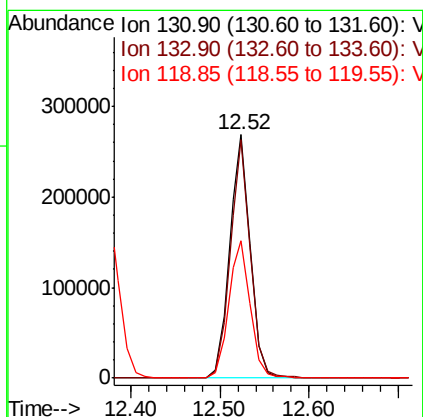
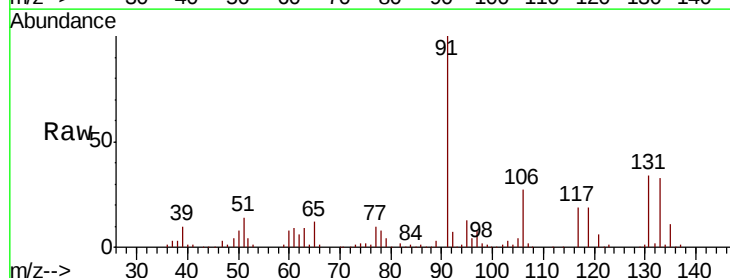
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

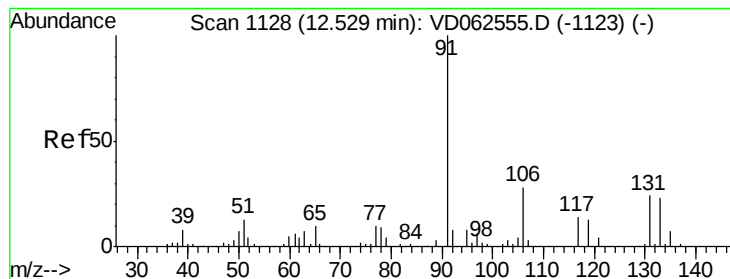
Tot Ion:112 Resp: 878443
Ion Ratio Lower Upper
112 100
114 32.5 26.6 39.8



#66
1,1,1,2-Tetrachloroethane
Concen: 54.957 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion:131 Resp: 438163
Ion Ratio Lower Upper
131 100
133 97.8 46.2 138.6
119 56.5 29.5 88.6





#67

Ethyl Benzene

Concen: 52.694 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

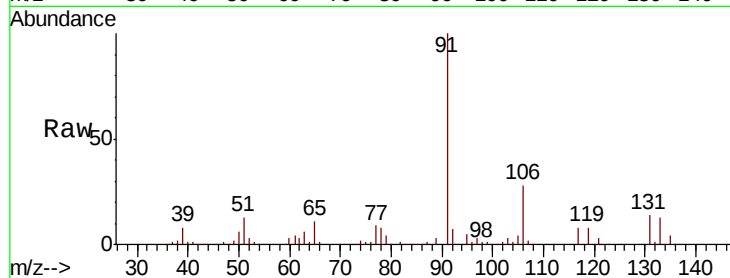
VSTDCCC050

Tot Ion: 91 Resp: 1627618

Ion Ratio Lower Upper

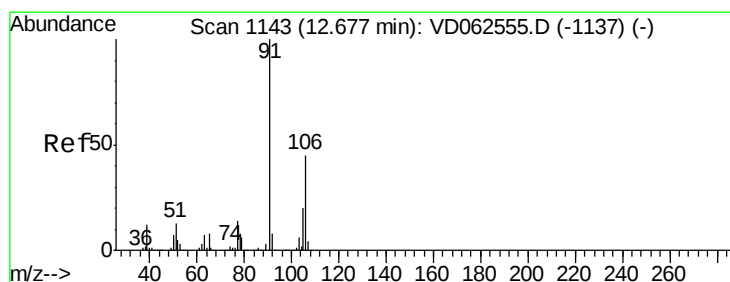
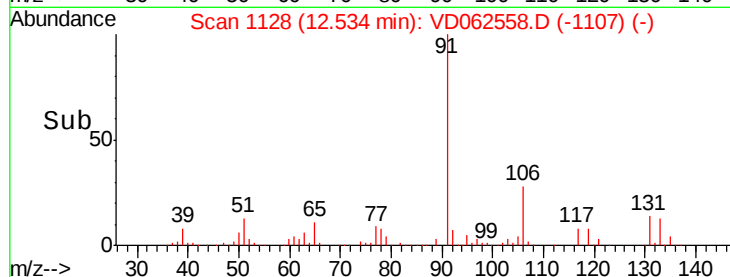
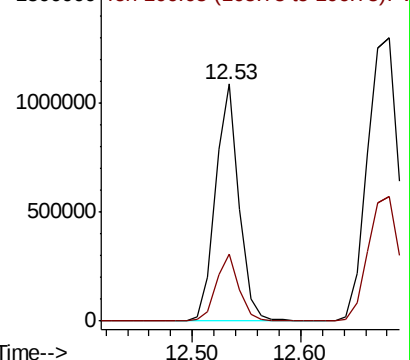
91 100

106 28.3 22.2 33.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 106.024 ug/l

RT: 12.68 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VD062558.D

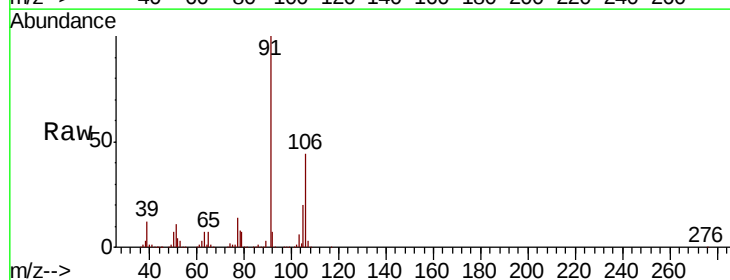
Acq: 31 May 2019 12:20

Tgt Ion: 106 Resp: 1132868

Ion Ratio Lower Upper

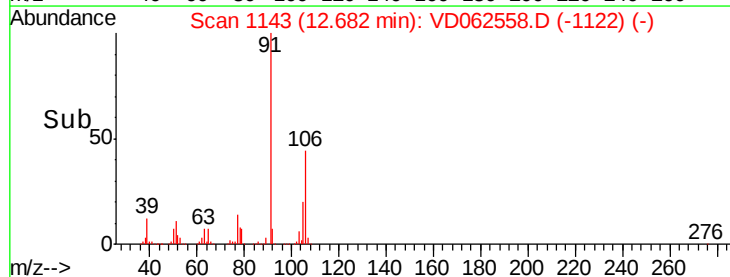
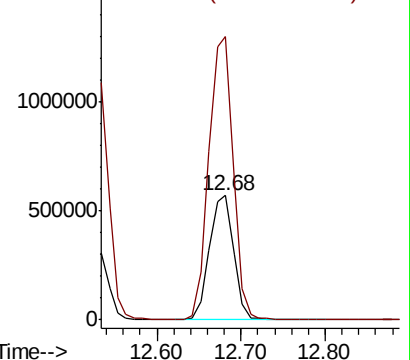
106 100

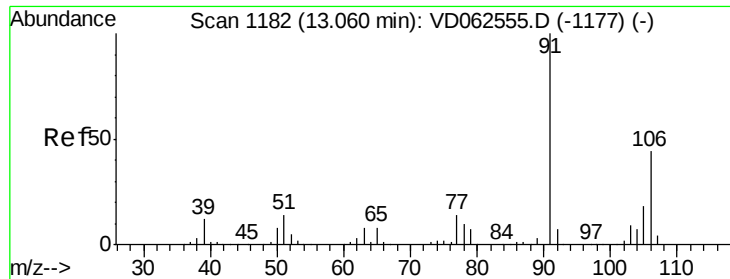
91 227.3 178.9 268.3



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC

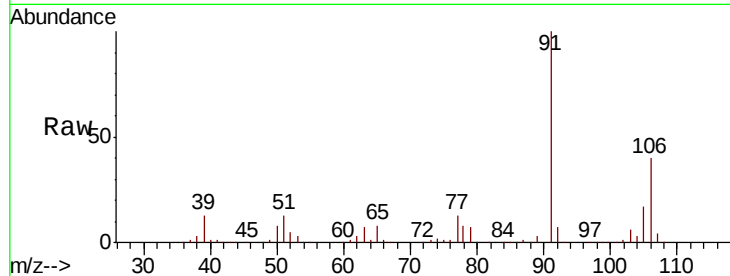




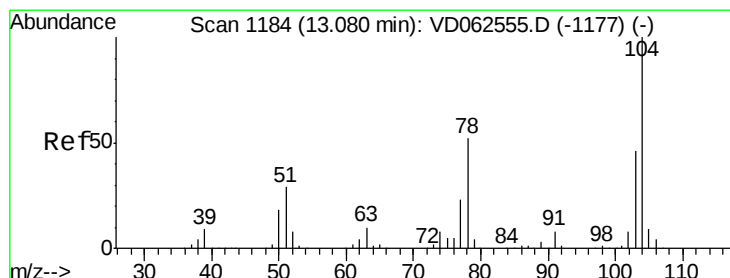
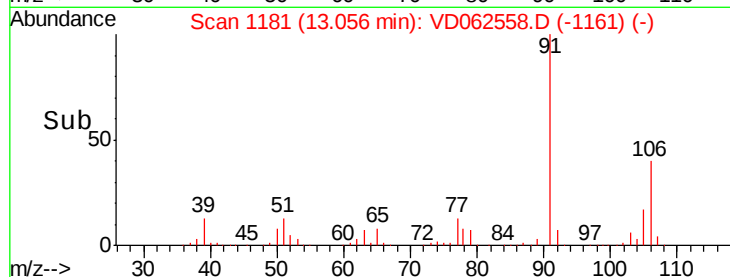
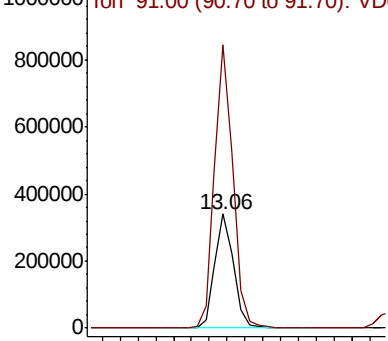
#69
o-Xylene
Concen: 49.038 ug/l
RT: 13.06 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 499837
Ion Ratio Lower Upper
106 100
91 247.6 113.9 341.8

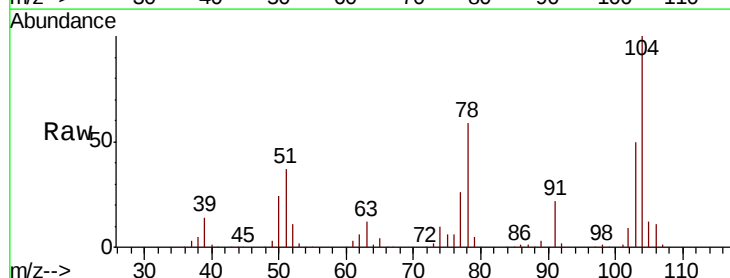


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

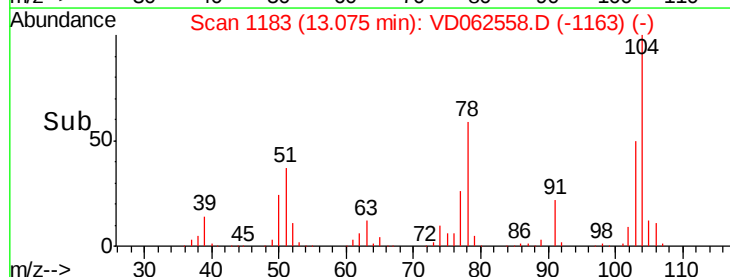
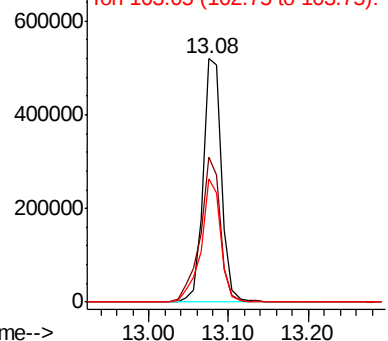


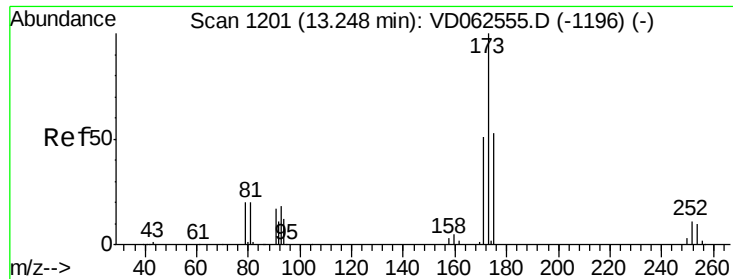
#70
Styrene
Concen: 48.884 ug/l
RT: 13.08 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion:104 Resp: 846028
Ion Ratio Lower Upper
104 100
78 59.3 41.5 62.3
103 50.5 36.6 55.0



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





#71

Bromoform

Concen: 53.256 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

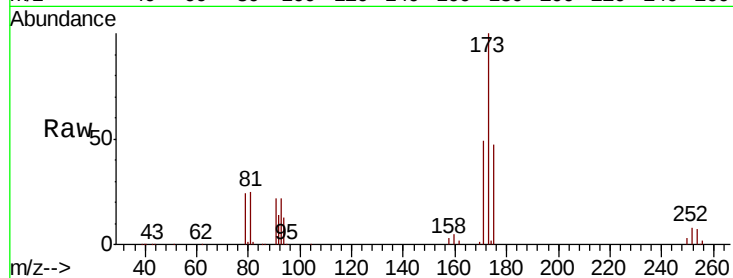
Tot Ion:173 Resp: 298068

Ion Ratio Lower Upper

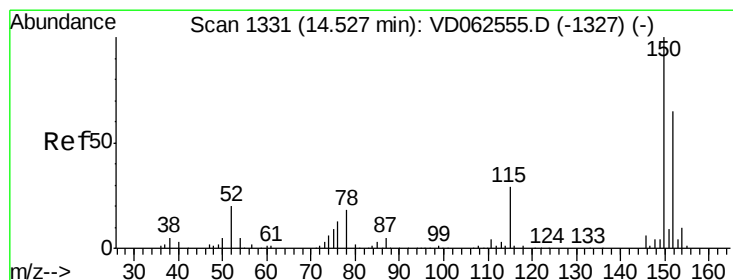
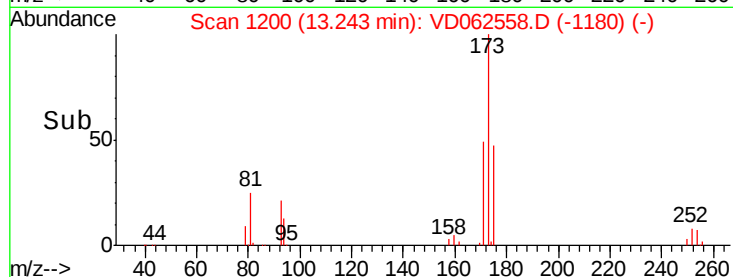
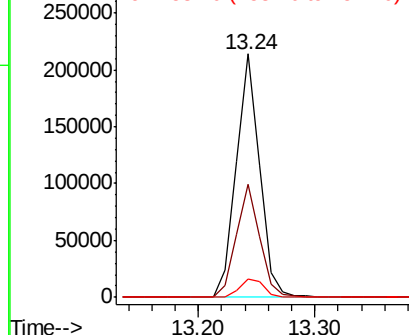
173 100

175 46.6 26.6 79.7

254 7.5 8.1 12.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

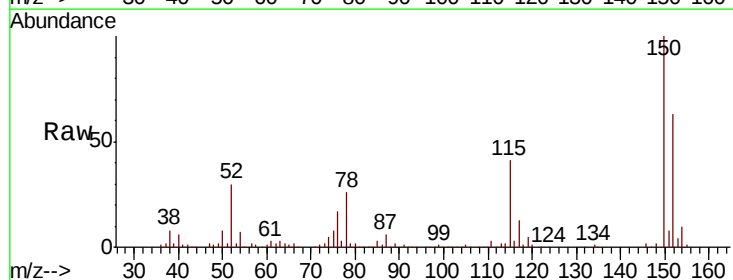
Tgt Ion:152 Resp: 476364

Ion Ratio Lower Upper

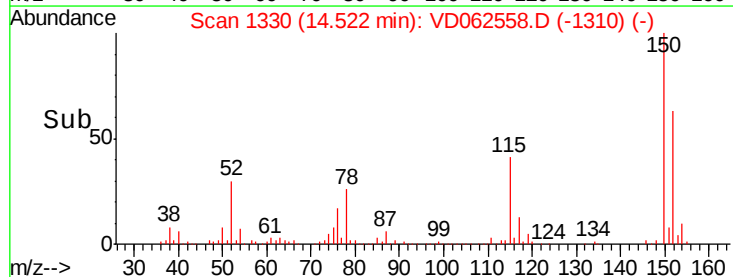
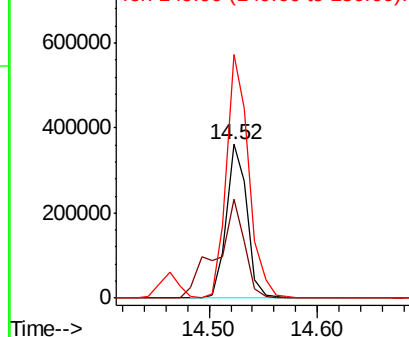
152 100

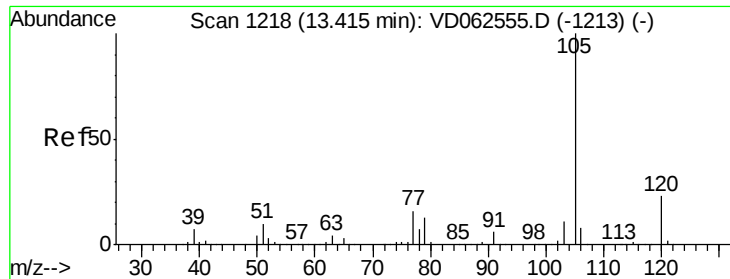
115 64.4 28.4 85.3

150 158.2 0.0 310.4



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





#73

Isopropylbenzene

Concen: 53.286 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

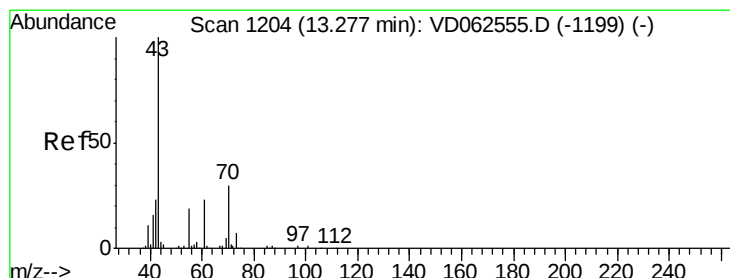
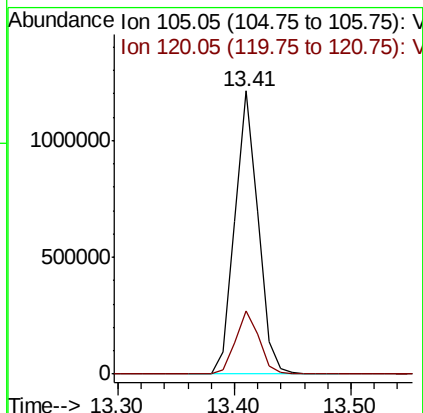
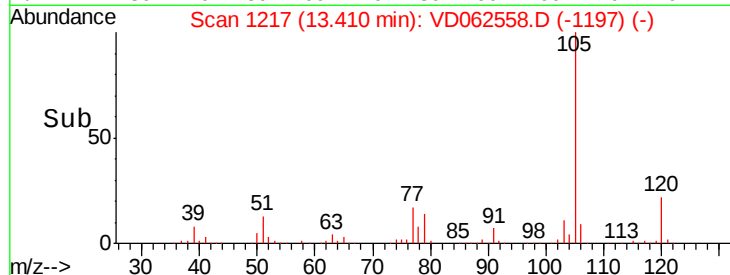
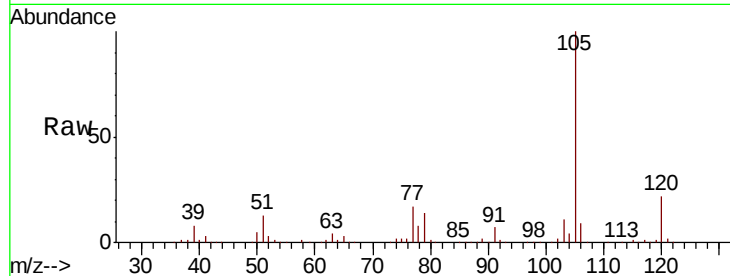
VSTDCCC050

Tot Ion:105 Resp: 1673419

Ion Ratio Lower Upper

105 100

120 22.4 11.6 34.8



#74

N-ethyl acetate

Concen: 51.319 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Tgt Ion: 43 Resp: 410937

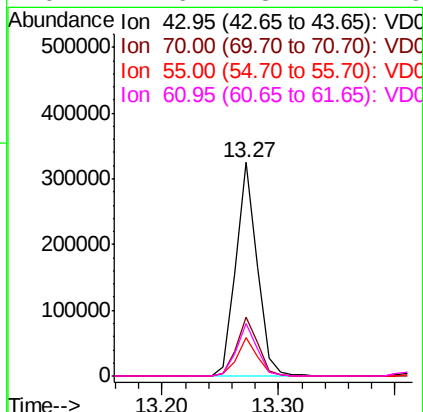
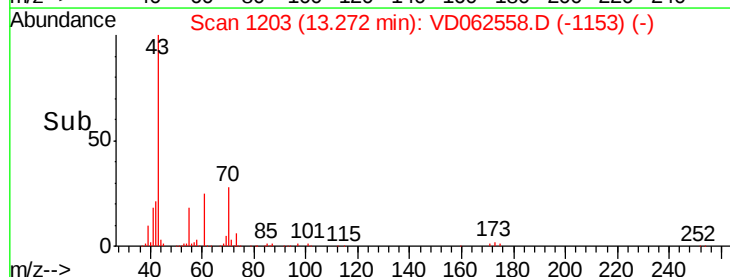
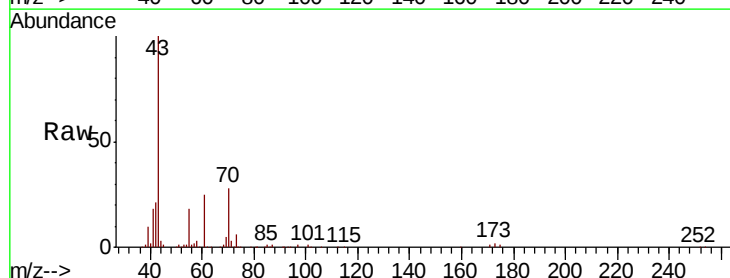
Ion Ratio Lower Upper

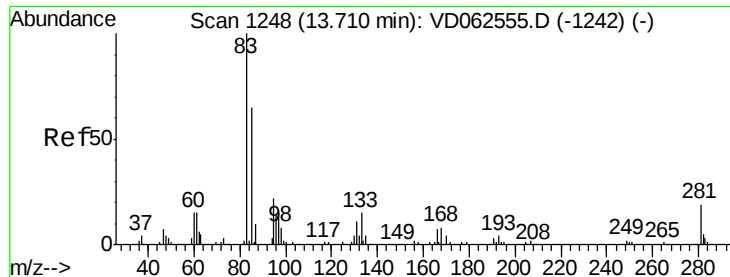
43 100

70 27.8 23.7 35.5

55 17.9 15.0 22.4

61 24.6 18.4 27.6





#75

1,1,2,2-Tetrachloroethane

Concen: 51.126 ug/l

RT: 13.71 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

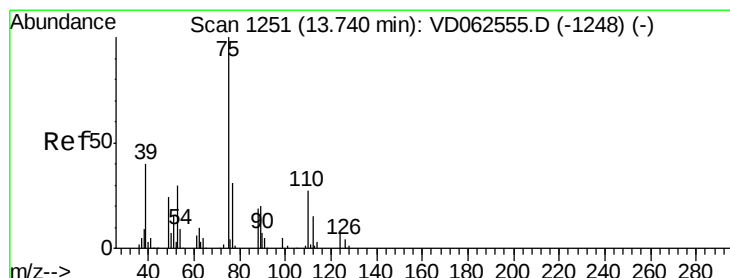
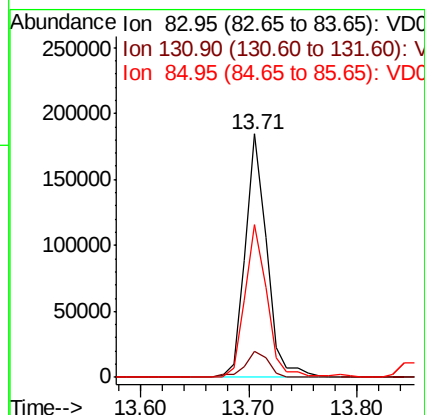
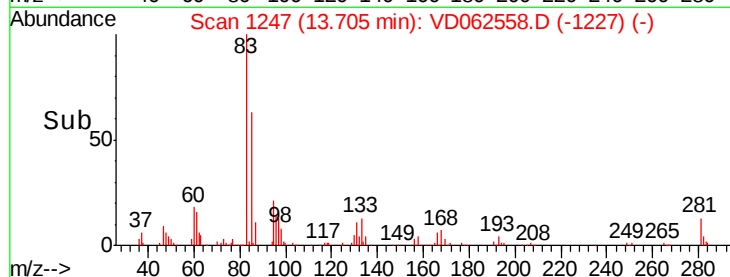
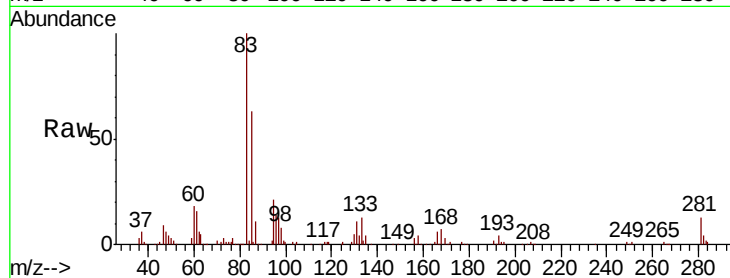
Tot Ion: 83 Resp: 254641

Ion Ratio Lower Upper

83 100

131 10.8 5.7 17.1

85 62.8 32.6 97.8



#76

1,2,3-Trichloropropane

Concen: 52.076 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VD062558.D

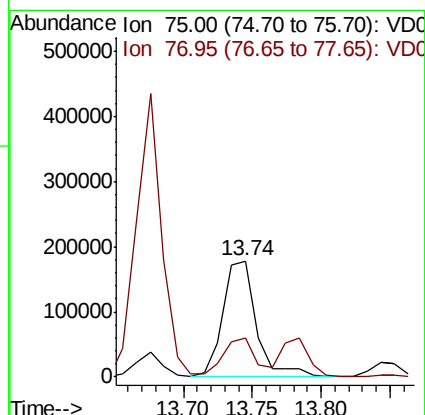
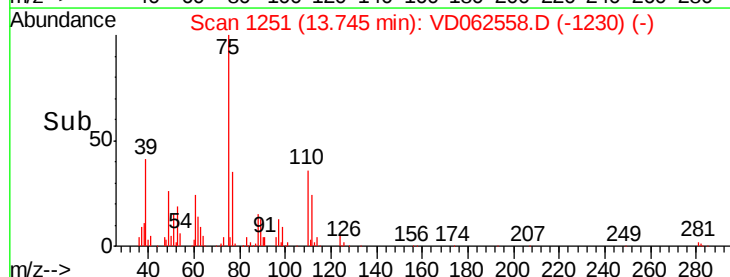
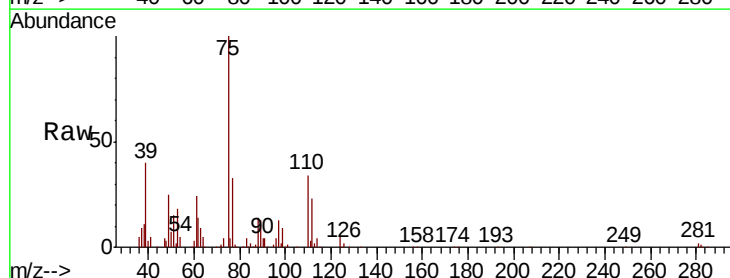
Acq: 31 May 2019 12:20

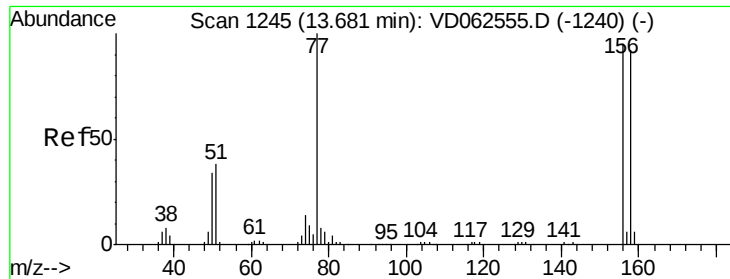
Tgt Ion: 75 Resp: 297613

Ion Ratio Lower Upper

75 100

77 33.5 16.5 49.5





#77

Bromobenzene

Concen: 51.489 ug/l

RT: 13.68 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

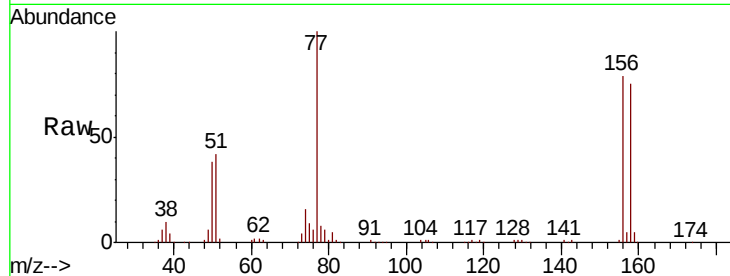
Tot Ion:156 Resp: 443354

Ion Ratio Lower Upper

156 100

77 126.5 52.9 158.7

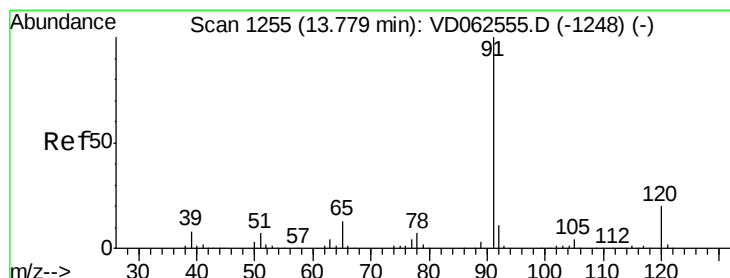
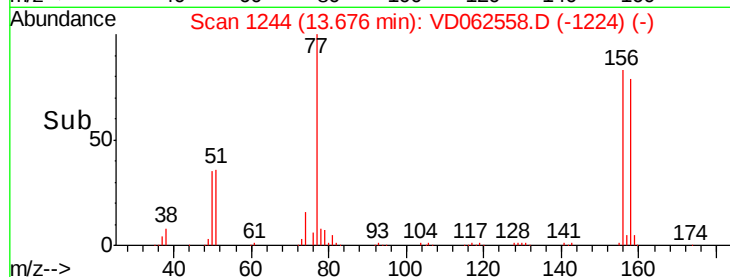
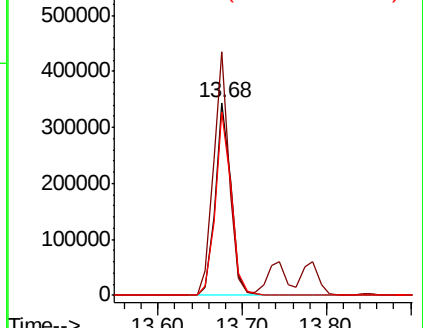
158 95.0 48.5 145.5



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: 50.373 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD062558.D

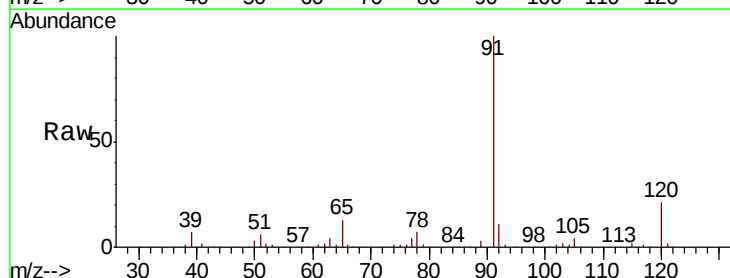
Acq: 31 May 2019 12:20

Tgt Ion: 91 Resp: 1823410

Ion Ratio Lower Upper

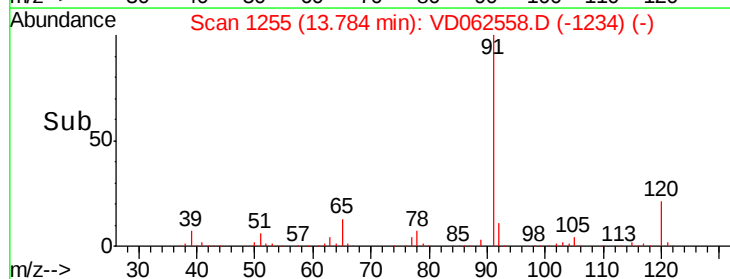
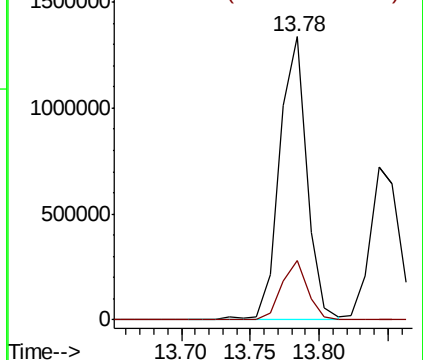
91 100

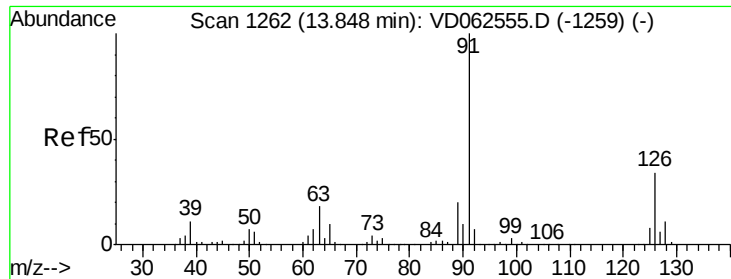
120 21.0 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

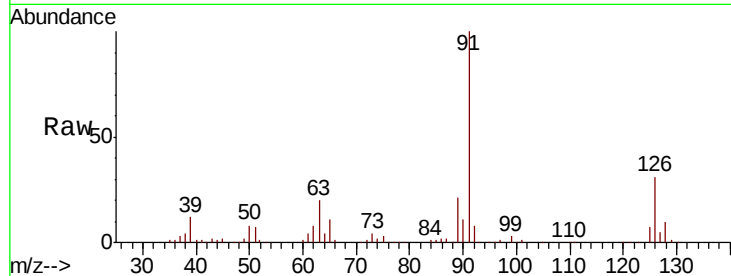




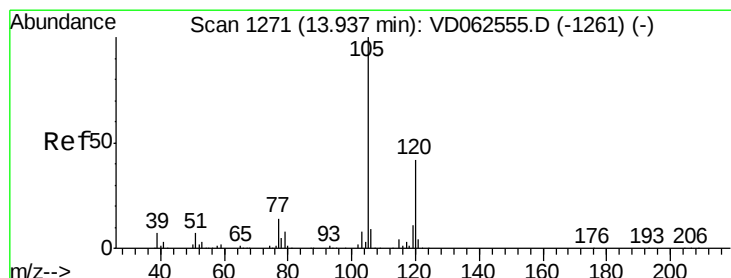
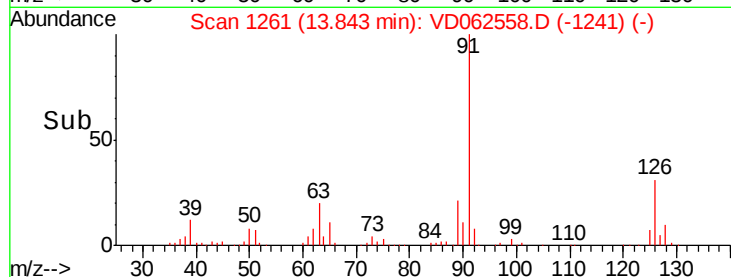
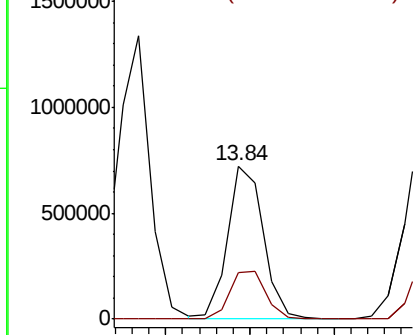
#79
2-Chlorotoluene
Concen: 50.548 ug/l
RT: 13.84 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1060956
Ion Ratio Lower Upper
91 100
126 30.5 16.7 50.1

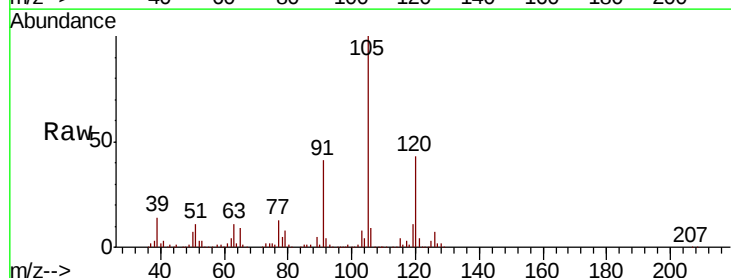


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.95 (125.65 to 126.65): V

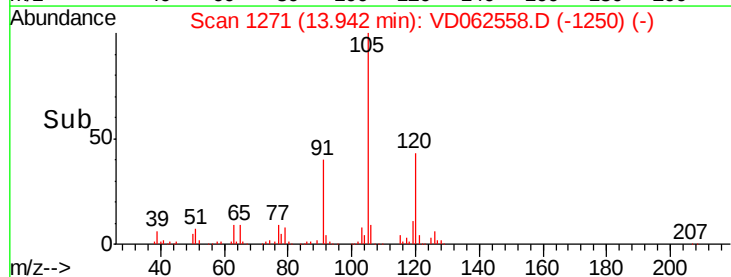
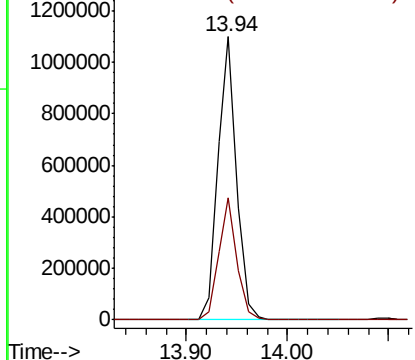


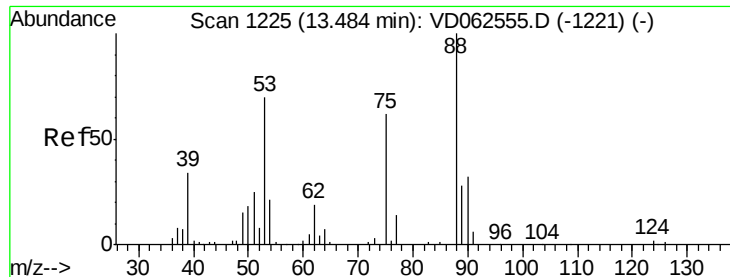
#80
1,3,5-Trimethylbenzene
Concen: 52.552 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. 0.01 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion:105 Resp: 1410255
Ion Ratio Lower Upper
105 100
120 43.3 20.8 62.5



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

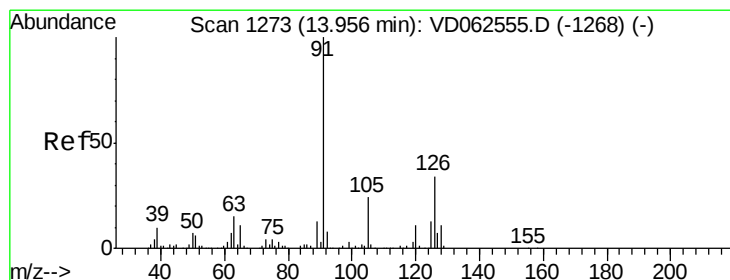
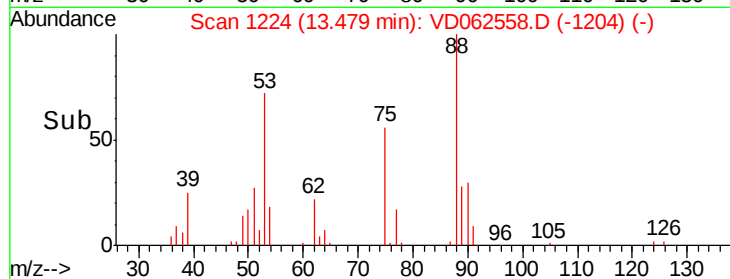
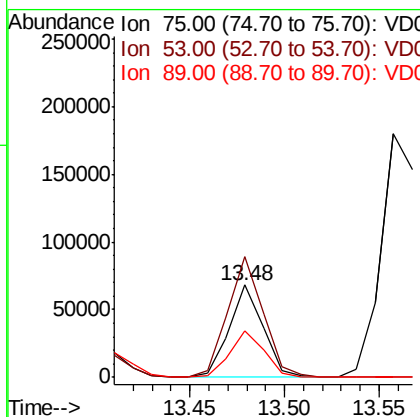
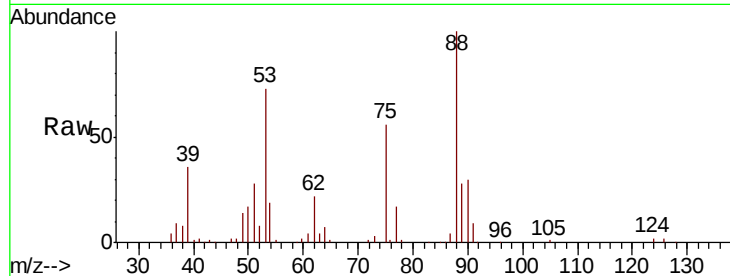




#81
trans-1,4-Dichloro-2-butene
Concen: 51.831 ug/l
RT: 13.48 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

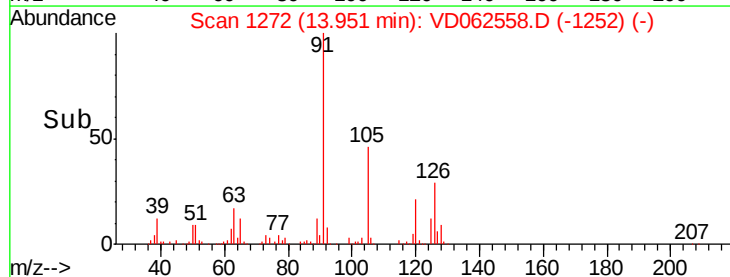
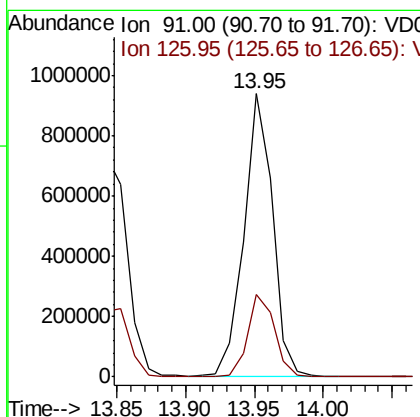
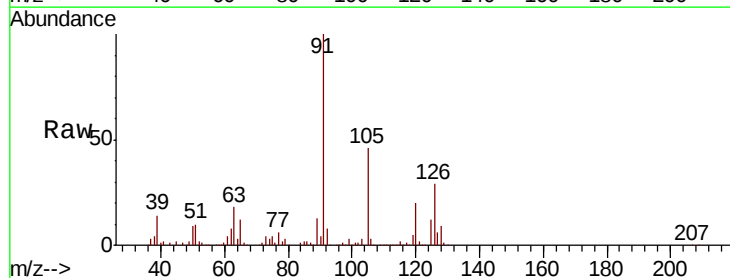
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

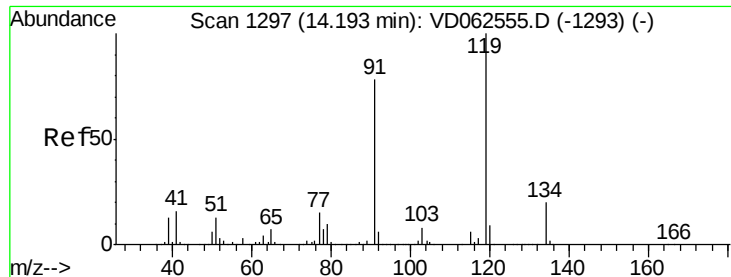
Tot Ion: 75 Resp: 84877
Ion Ratio Lower Upper
75 100
53 131.3 91.0 136.4
89 50.0 36.9 55.3



#82
4-Chlorotoluene
Concen: 54.015 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 91 Resp: 1357285
Ion Ratio Lower Upper
91 100
126 29.1 16.9 50.7

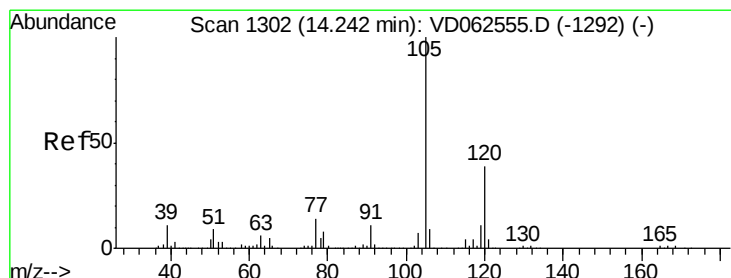
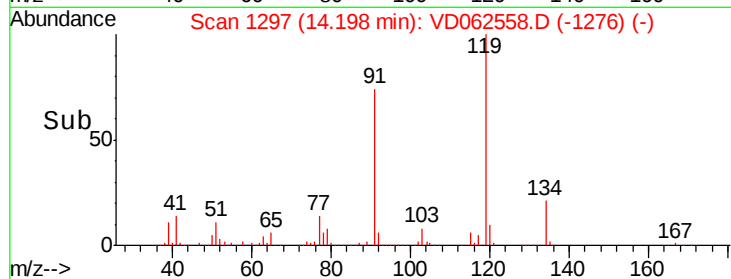
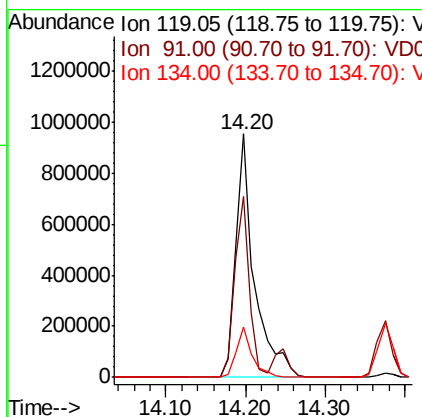
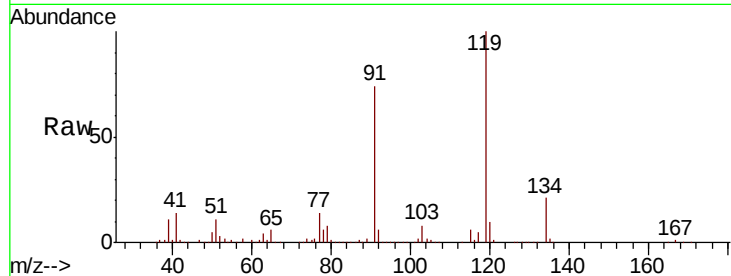




#83
 tert-Butylbenzene
 Concen: 51.866 ug/l
 RT: 14.20 min Scan# 1297
 Delta R.T. 0.01 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

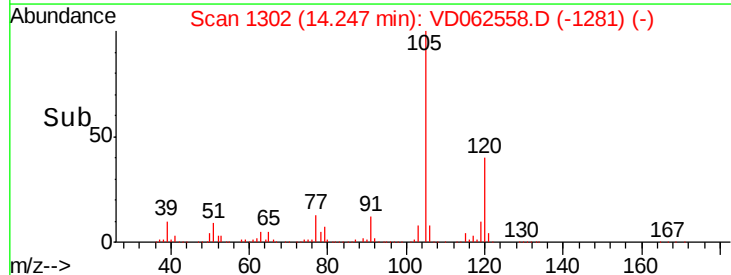
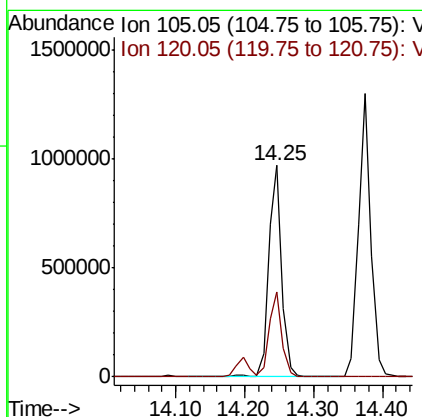
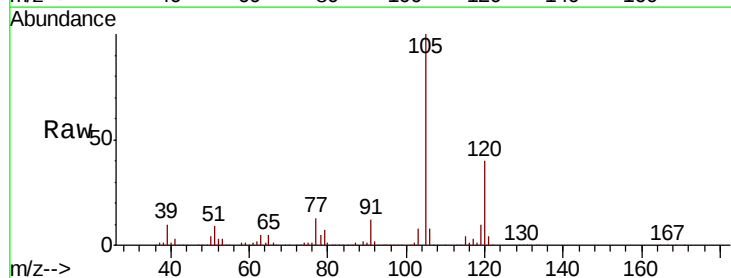
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

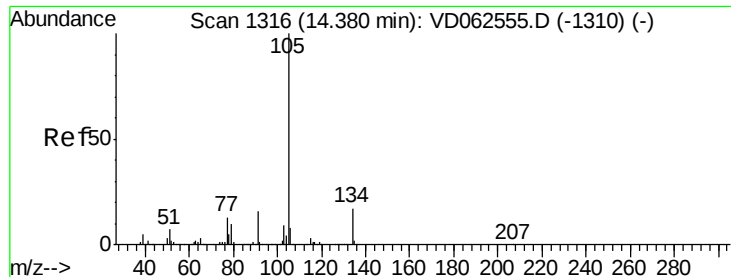
Tot Ion:119 Resp: 1553064
 Ion Ratio Lower Upper
 119 100
 91 74.4 39.1 117.5
 134 20.8 10.1 30.3



#84
 1,2,4-Trimethylbenzene
 Concen: 47.009 ug/l
 RT: 14.25 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion:105 Resp: 1285449
 Ion Ratio Lower Upper
 105 100
 120 40.0 19.6 58.8

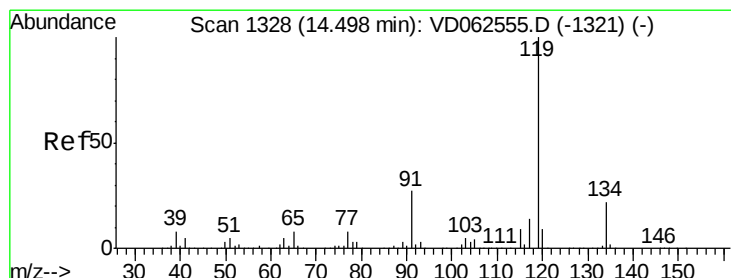
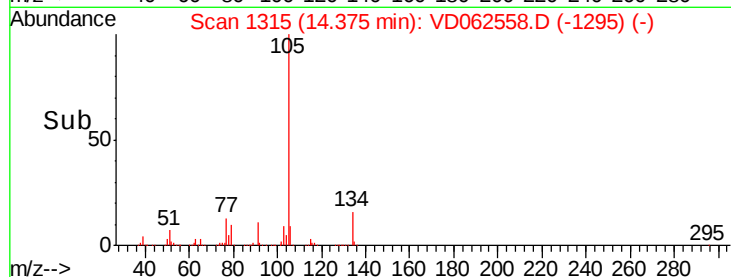
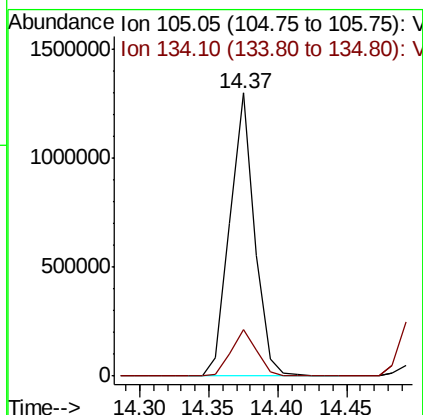
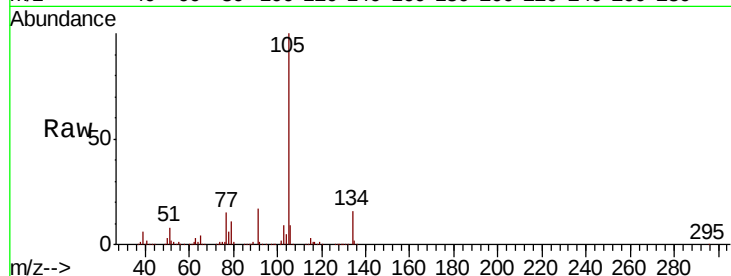




#85
 sec-Butylbenzene
 Concen: 51.114 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

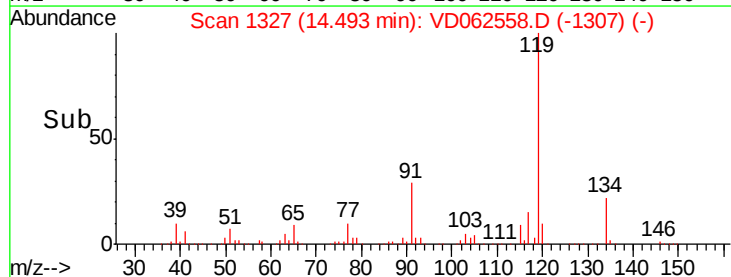
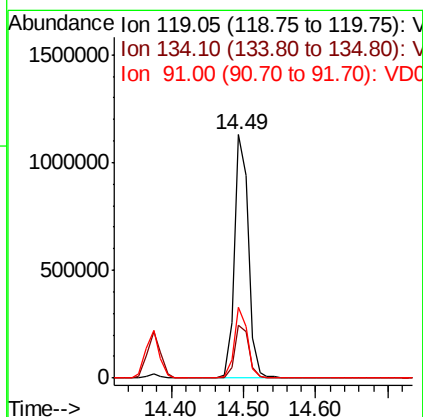
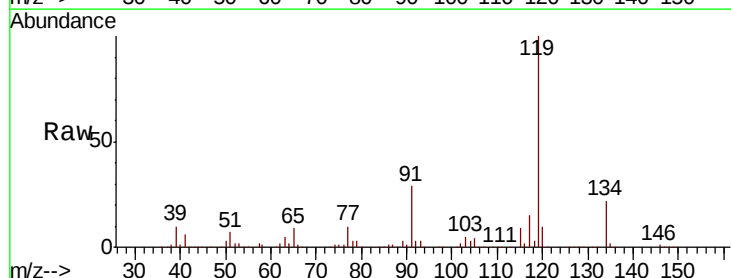
Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

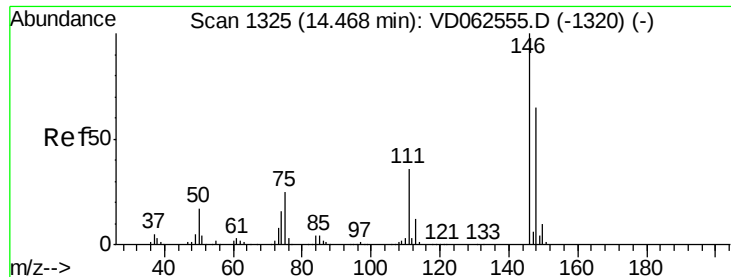
Tot Ion:105 Resp: 1621374
 Ion Ratio Lower Upper
 105 100
 134 16.5 8.7 26.1



#86
 p-Isopropyltoluene
 Concen: 51.302 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion:119 Resp: 1520366
 Ion Ratio Lower Upper
 119 100
 134 21.9 11.2 33.6
 91 29.3 13.6 40.7

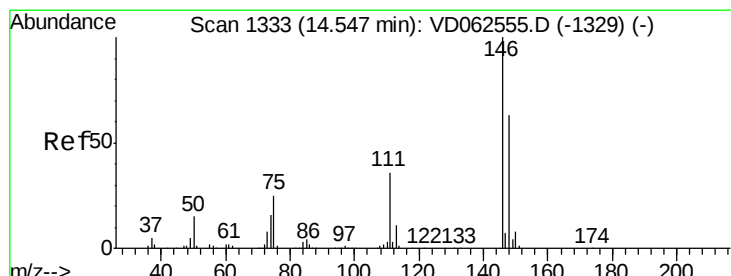
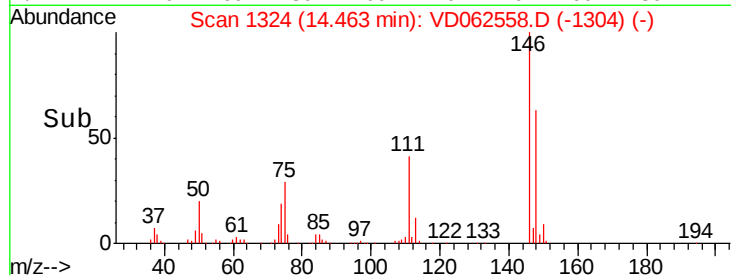
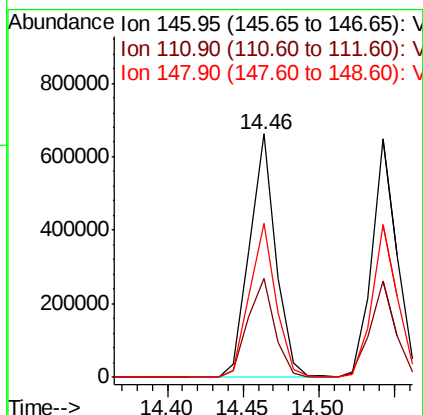
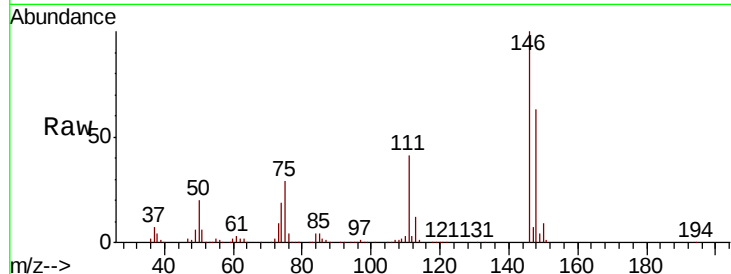




#87
 1,3-Dichlorobenzene
 Concen: 53.891 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

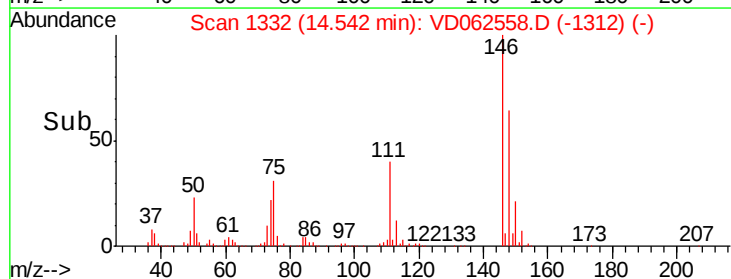
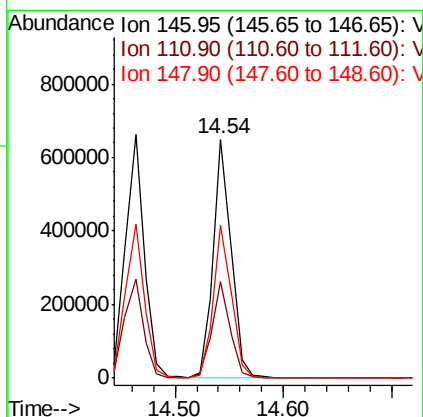
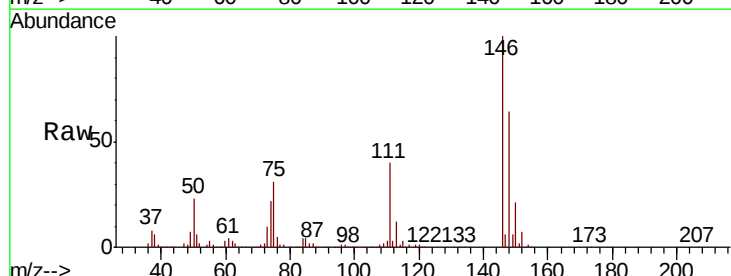
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

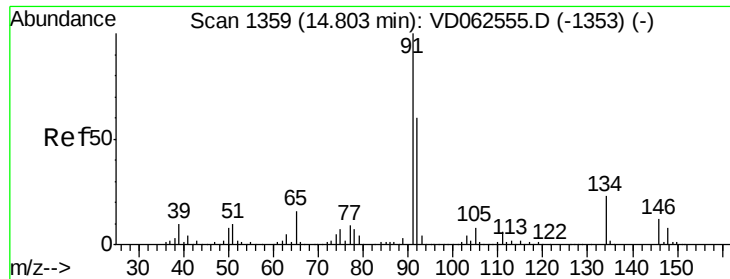
Tot Ion:146 Resp: 804381
 Ion Ratio Lower Upper
 146 100
 111 40.7 18.1 54.4
 148 63.1 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 50.220 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion:146 Resp: 751172
 Ion Ratio Lower Upper
 146 100
 111 40.1 18.2 54.6
 148 63.7 31.6 94.8

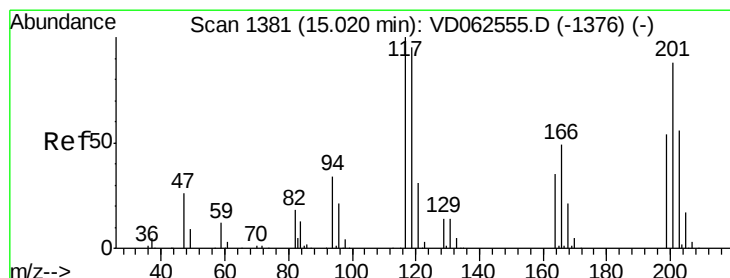
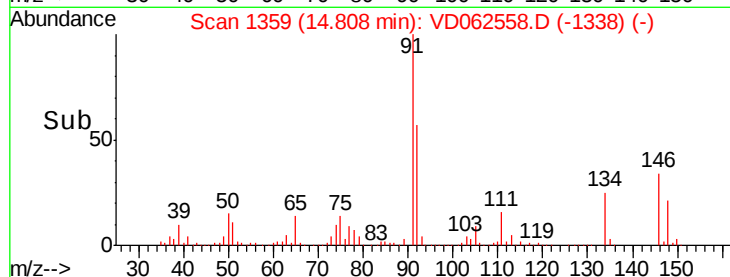
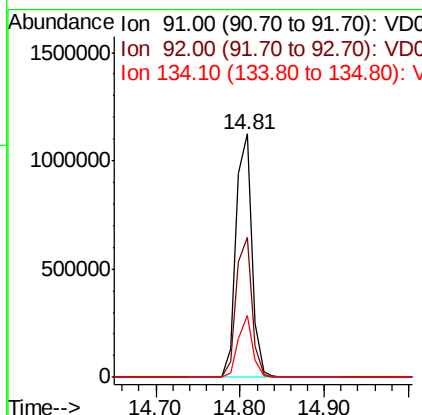
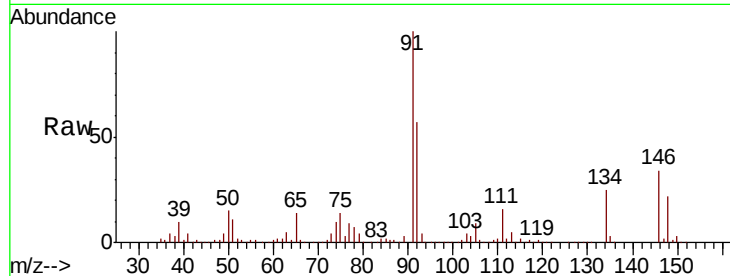




#89
n-Butylbenzene
Concen: 55.842 ug/l
RT: 14.81 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

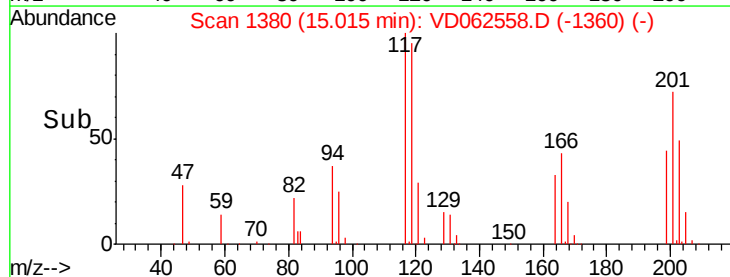
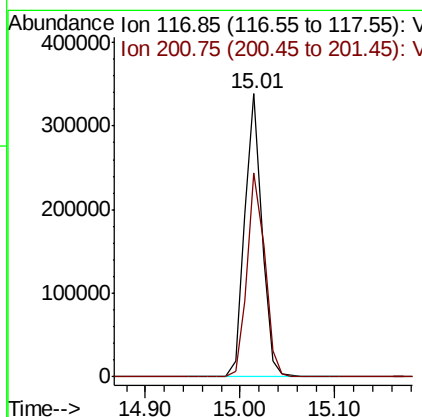
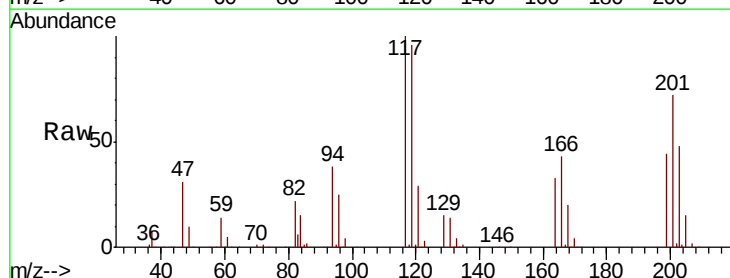
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

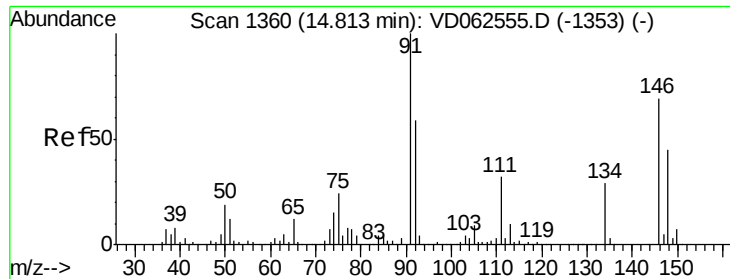
Tot Ion: 91 Resp: 1477321
Ion Ratio Lower Upper
91 100
92 57.2 29.8 89.4
134 25.2 11.3 33.8



#90
Hexachloroethane
Concen: 54.098 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion: 117 Resp: 425340
Ion Ratio Lower Upper
117 100
201 72.0 43.8 131.4





#91

1,2-Dichlorobenzene

Concen: 55.972 ug/l

RT: 14.82 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

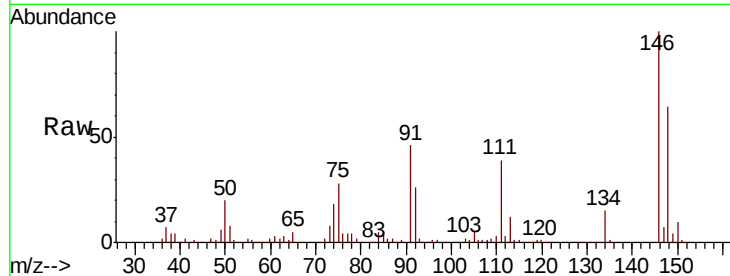
Tot Ion:146 Resp: 702793

Ion Ratio Lower Upper

146 100

111 39.1 22.8 68.4

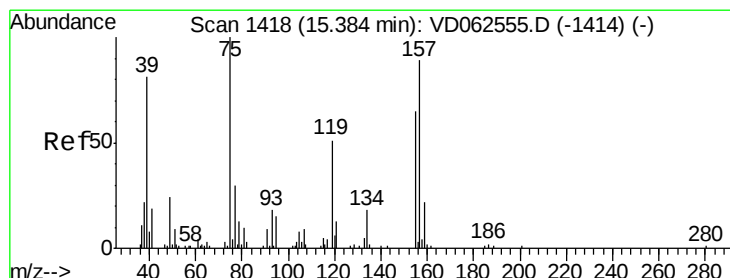
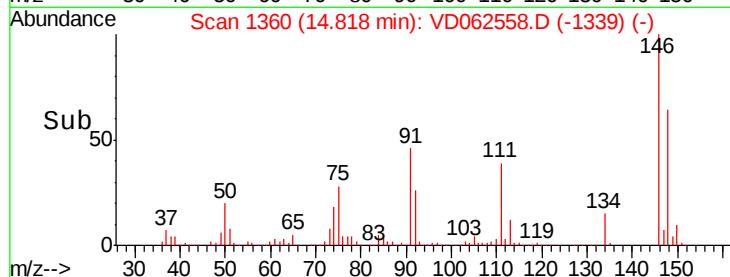
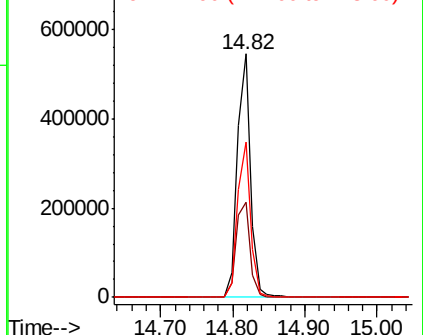
148 63.9 32.3 96.9



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: 56.018 ug/l

RT: 15.39 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VD062558.D

Acq: 31 May 2019 12:20

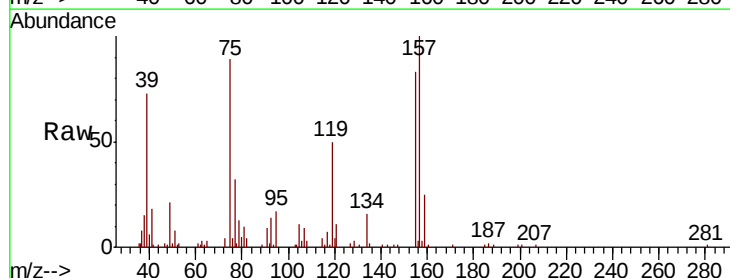
Tgt Ion: 75 Resp: 57853

Ion Ratio Lower Upper

75 100

155 92.8 32.6 97.8

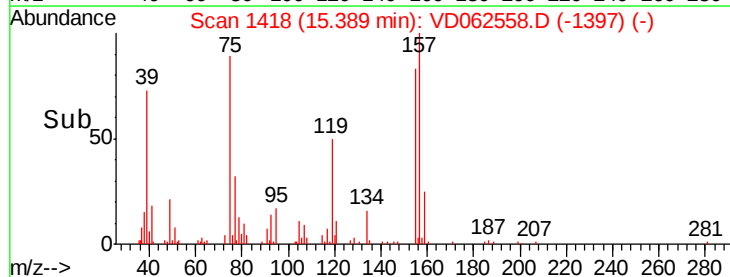
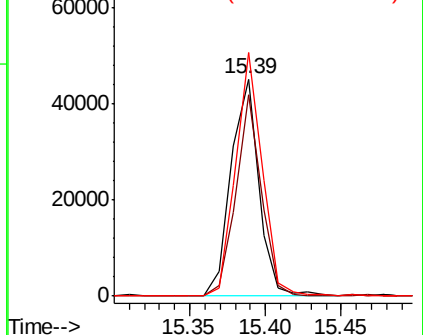
157 112.2 44.5 133.7

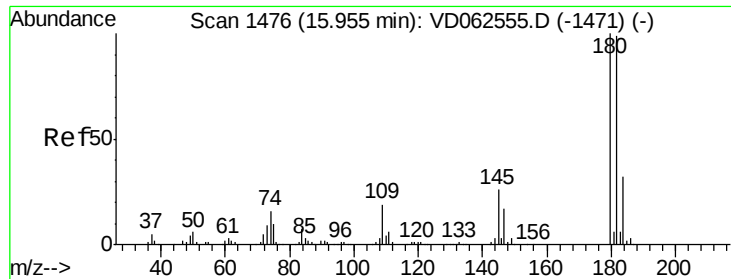


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

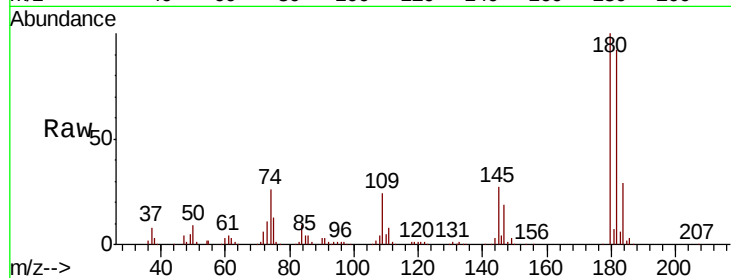




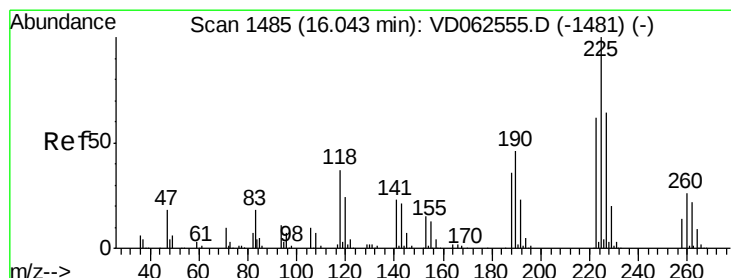
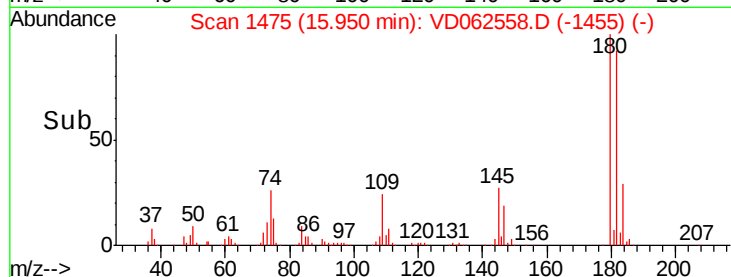
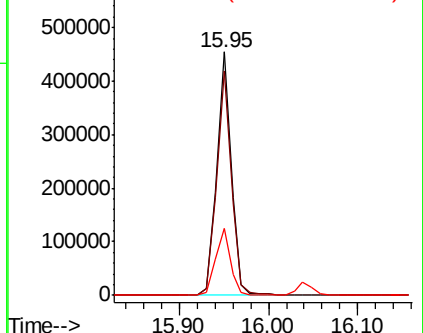
#93
 1,2,4-Trichlorobenzene
 Concen: 51.957 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 521648
 Ion Ratio Lower Upper
 180 100
 182 92.3 49.5 148.3
 145 27.3 13.1 39.3

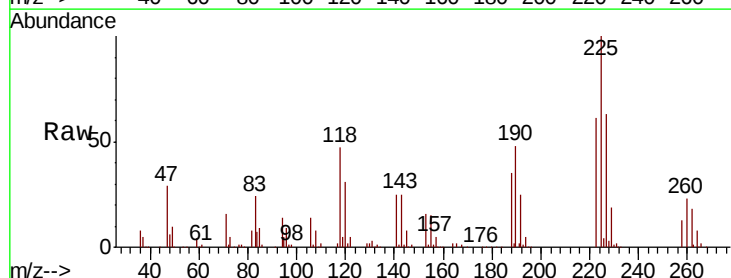


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

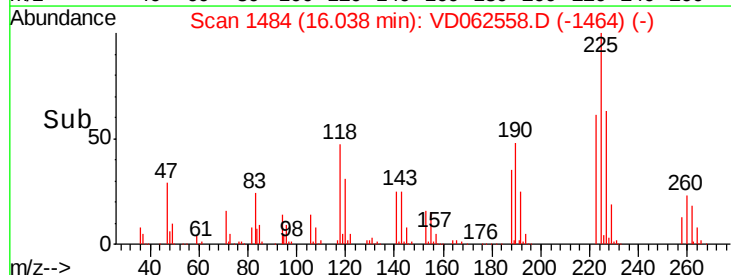
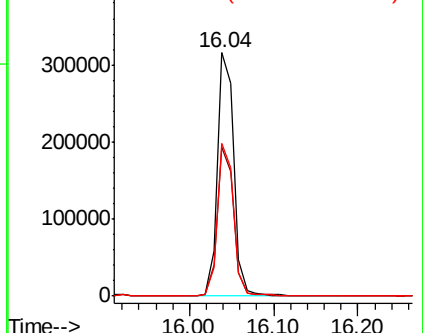


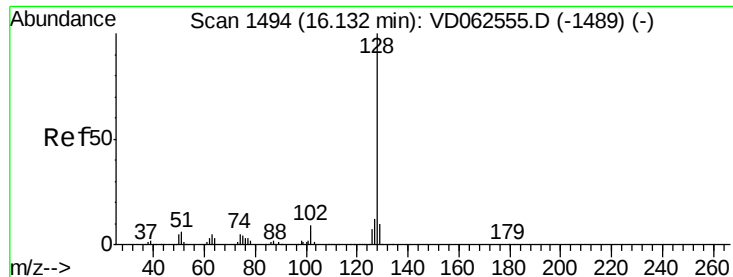
#94
 Hexachlorobutadiene
 Concen: 57.331 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD062558.D
 Acq: 31 May 2019 12:20

Tgt Ion:225 Resp: 424920
 Ion Ratio Lower Upper
 225 100
 223 61.0 31.1 93.5
 227 62.7 32.1 96.5



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

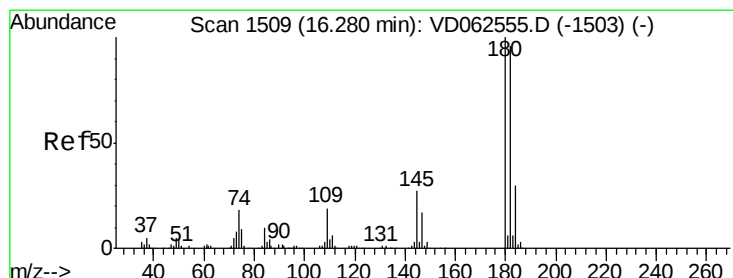
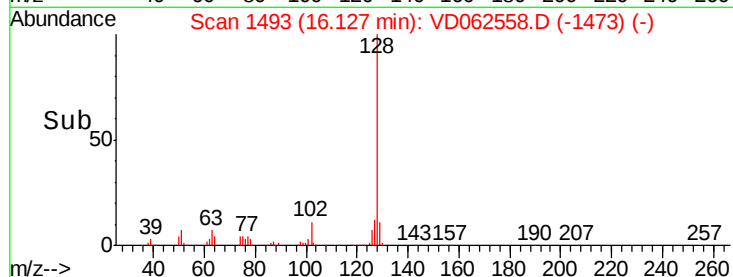
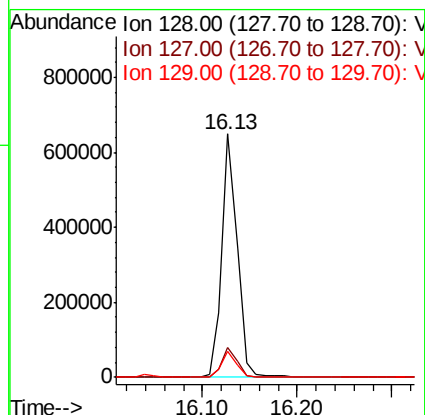
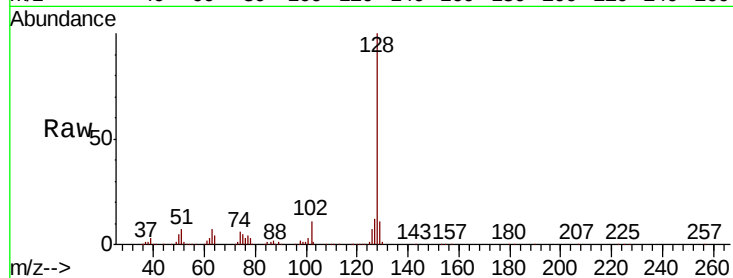




#95
Naphthalene
Concen: 53.448 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 730792
Ion Ratio Lower Upper
128 100
127 12.3 9.7 14.5
129 10.8 8.2 12.2



#96
1,2,3-Trichlorobenzene
Concen: 54.159 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD062558.D
Acq: 31 May 2019 12:20

Tgt Ion:180 Resp: 406180
Ion Ratio Lower Upper
180 100
182 94.8 48.1 144.3
145 32.6 13.3 39.9

