

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081519\
 Data File : VD063606.D
 Acq On : 15 Aug 2019 15:33
 Operator : JC/SY
 Sample : VD0815SBS01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0815SBS01

Quant Time: Aug 15 15:56:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	1029261	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	1509538	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	1282531	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	624890	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	581548	52.86	ug/l	-0.02
Spiked Amount			Recovery	=	105.72%	
35) Dibromofluoromethane	6.91	113	658650	51.81	ug/l	-0.02
Spiked Amount			Recovery	=	103.62%	
50) Toluene-d8	10.40	98	1518967	54.34	ug/l	-0.02
Spiked Amount			Recovery	=	108.68%	
62) 4-Bromofluorobenzene	13.55	95	604577	47.72	ug/l	-0.01
Spiked Amount			Recovery	=	95.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	251740	20.216	ug/l	99
3) Chloromethane	1.73	50	212394	21.831	ug/l	99
4) Vinyl Chloride	1.84	62	205367	21.264	ug/l	99
5) Bromomethane	2.14	94	83945	18.420	ug/l	92
6) Chloroethane	2.25	64	78063	17.675	ug/l	93
7) Trichlorofluoromethane	2.52	101	385237	20.335	ug/l	93
8) Diethyl Ether	2.87	74	56596	21.159	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	3.13	101	233801	20.901	ug/l #	88
10) Methyl Iodide	3.29	142	286265	18.086	ug/l	95
11) Tert butyl alcohol	4.08	59	55619	116.130	ug/l	95
12) 1,1-Dichloroethene	3.11	96	158843	19.099	ug/l	93
13) Acrolein	3.03	56	40124	85.112	ug/l	94
14) Allyl chloride	3.61	41	260557	20.840	ug/l	98
15) Acrylonitrile	4.19	53	135297	106.651	ug/l	98
16) Acetone	3.22	43	215898	96.534	ug/l	95
17) Carbon Disulfide	3.36	76	535618	20.406	ug/l	99
18) Methyl Acetate	3.63	43	93312	22.027	ug/l #	91
19) Methyl tert-butyl Ether	4.23	73	364021	21.886	ug/l	97
20) Methylene Chloride	3.80	84	206453	21.348	ug/l	90
21) trans-1,2-Dichloroethene	4.21	96	192043	21.943	ug/l	90
22) Diisopropyl ether	5.12	45	529883	20.538	ug/l	94
23) Vinyl Acetate	5.04	43	1639670	109.321	ug/l	100
24) 1,1-Dichloroethane	4.96	63	352246	22.013	ug/l	99
25) 2-Butanone	6.07	43	224735	101.744	ug/l	95
26) 2,2-Dichloropropane	6.01	77	319080	20.020	ug/l	93
27) cis-1,2-Dichloroethene	6.03	96	197076	20.581	ug/l	97
28) Bromochloromethane	6.43	49	135311	20.864	ug/l	96
29) Tetrahydrofuran	6.45	42	115089	111.817	ug/l	98
30) Chloroform	6.66	83	421305	21.182	ug/l	94
31) Cyclohexane	6.94	56	209468	21.086	ug/l	98
32) 1,1,1-Trichloroethane	6.86	97	410636	21.583	ug/l	97
36) 1,1-Dichloropropene	7.14	75	275047	20.611	ug/l	96
37) Ethyl Acetate	6.18	43	121768	21.776	ug/l #	93
38) Carbon Tetrachloride	7.10	117	369457	18.370	ug/l	97

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 Sample : VD0815SBS01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

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Quant Time: Aug 15 15:56:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	210544	18.554	ug/l	93
40) Benzene	7.44	78	594960	20.260	ug/l	96
41) Methacrylonitrile	6.44	41	152553	21.667	ug/l #	94
42) 1,2-Dichloroethane	7.57	62	307101	20.797	ug/l	99
43) Isopropyl Acetate	9.24	43	162401	21.685	ug/l #	95
44) Trichloroethene	8.53	130	224873	20.034	ug/l	96
45) 1,2-Dichloropropane	8.93	63	138773	20.292	ug/l	91
46) Dibromomethane	9.06	93	127070	21.758	ug/l	90
47) Bromodichloromethane	9.36	83	314453	20.990	ug/l	96
48) Methyl methacrylate	9.11	41	107801	21.225	ug/l	99
49) 1,4-Dioxane	9.07	88	17054	391.449	ug/l #	78
51) 4-Methyl-2-Pentanone	10.30	43	542822	105.923	ug/l	100
52) Toluene	10.50	92	404619	21.391	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	261212	21.366	ug/l	96
54) cis-1,3-Dichloropropene	10.03	75	279316	20.262	ug/l	98
55) 1,1,2-Trichloroethane	11.19	97	132437	20.728	ug/l	97
56) Ethyl methacrylate	11.04	69	144854	20.887	ug/l	93
57) 1,3-Dichloropropane	11.40	76	206530	21.384	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.85	63	348805	95.270	ug/l	99
59) 2-Hexanone	11.53	43	388423	104.167	ug/l	99
60) Dibromochloromethane	11.68	129	236226	20.318	ug/l	95
61) 1,2-Dibromoethane	11.80	107	164097	21.215	ug/l	99
64) Tetrachloroethene	11.24	164	204420	20.647	ug/l	90
65) Chlorobenzene	12.40	112	502008	20.884	ug/l	95
66) 1,1,1,2-Tetrachloroethane	12.50	131	202762	19.167	ug/l	97
67) Ethyl Benzene	12.51	91	834950	19.977	ug/l	96
68) m/p-Xylenes	12.66	106	596439	40.618	ug/l	97
69) o-Xylene	13.05	106	278834	19.729	ug/l	93
70) Styrene	13.07	104	499173	19.856	ug/l	98
71) Bromoform	13.23	173	148338	20.450	ug/l #	87
73) Isopropylbenzene	13.40	105	852484	21.448	ug/l	99
74) N-amyl acetate	13.26	43	216016	21.650	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	157257	23.837	ug/l	97
76) 1,2,3-Trichloropropane	13.73	75	168907	23.552	ug/l	99
77) Bromobenzene	13.67	156	240621	22.151	ug/l	92
78) n-propylbenzene	13.76	91	953771	20.509	ug/l	94
79) 2-Chlorotoluene	13.83	91	578562	21.577	ug/l	96
80) 1,3,5-Trimethylbenzene	13.93	105	742101	21.369	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	40327	20.921	ug/l	95
82) 4-Chlorotoluene	13.94	91	693075	21.495	ug/l	96
83) tert-Butylbenzene	14.19	119	835128	22.837	ug/l	96
84) 1,2,4-Trimethylbenzene	14.23	105	709655	22.085	ug/l	92
85) sec-Butylbenzene	14.37	105	818581	21.078	ug/l	99
86) p-Isopropyltoluene	14.48	119	752875	20.275	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	440811	22.435	ug/l	93
88) 1,4-Dichlorobenzene	14.53	146	411020	21.803	ug/l	95
89) n-Butylbenzene	14.79	91	754802	22.272	ug/l	94
90) Hexachloroethane	15.00	117	215343	23.072	ug/l	94
91) 1,2-Dichlorobenzene	14.81	146	385414	23.119	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	28080	22.605	ug/l	90

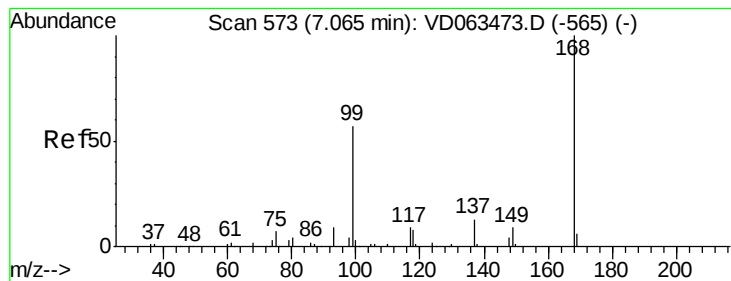
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081519\
Data File : VD063606.D
Acq On : 15 Aug 2019 15:33
Operator : JC/SY
Sample : VD0815SBSD01
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	254719	20.765	ug/l	99
94) Hexachlorobutadiene	16.03	225	208084	22.258	ug/l	96
95) Naphthalene	16.12	128	377503	20.307	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	215003	21.701	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

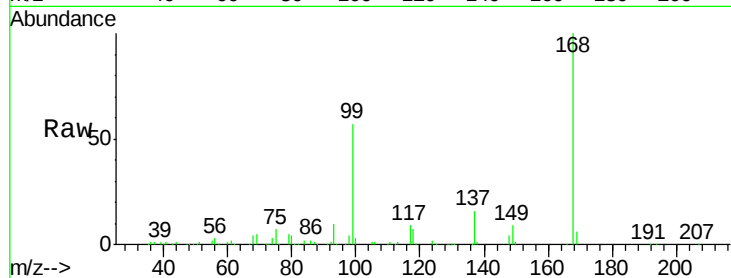
VD0815SBSD01

Tot Ion:168 Resp: 1029261

Ion Ratio Lower Upper

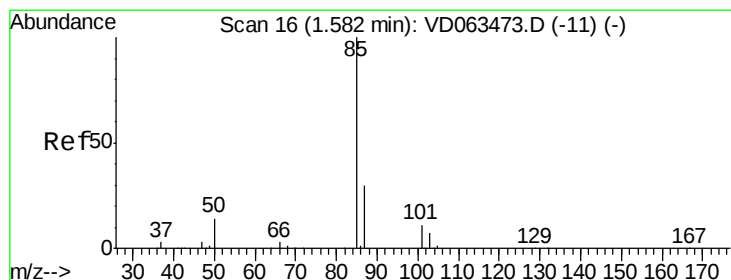
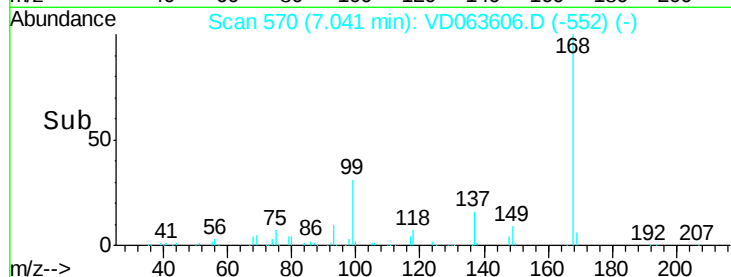
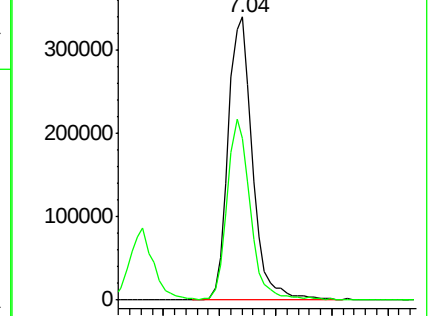
168 100

99 57.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 20.216 ug/l

RT: 1.57 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063606.D

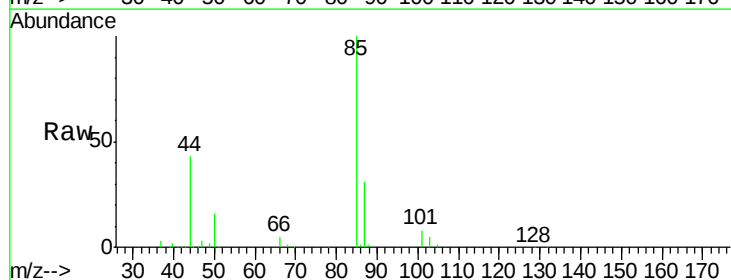
Acq: 15 Aug 2019 15:33

Tgt Ion: 85 Resp: 251740

Ion Ratio Lower Upper

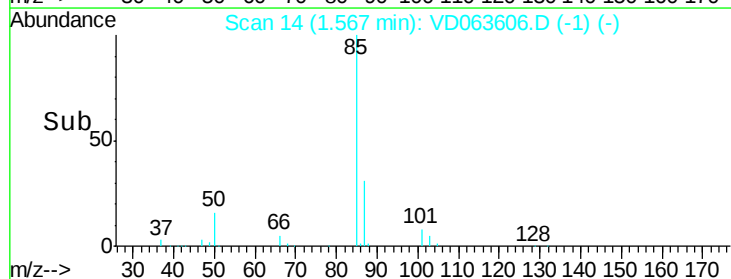
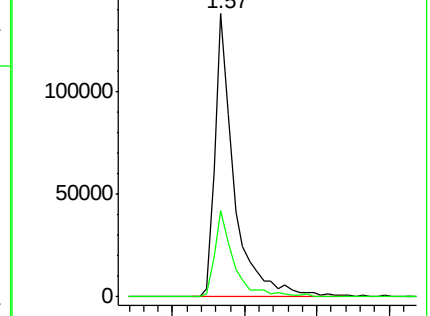
85 100

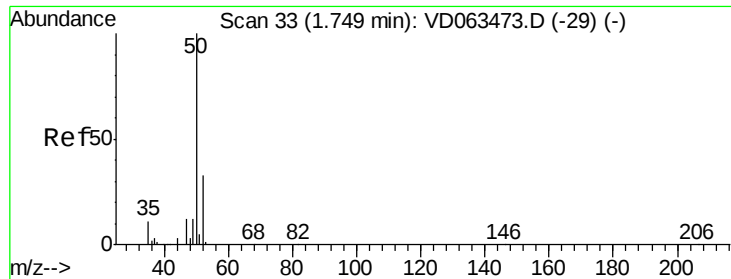
87 30.6 15.0 45.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.831 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

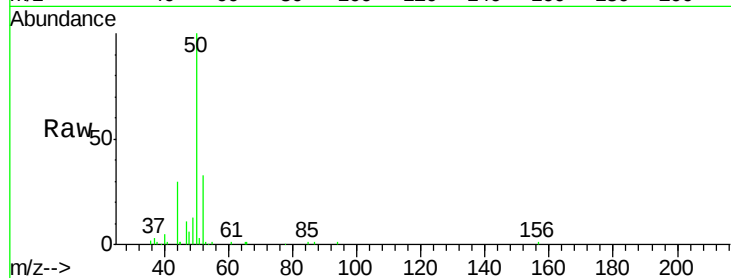
VD0815SBS01

Tot Ion: 50 Resp: 212394

Ion Ratio Lower Upper

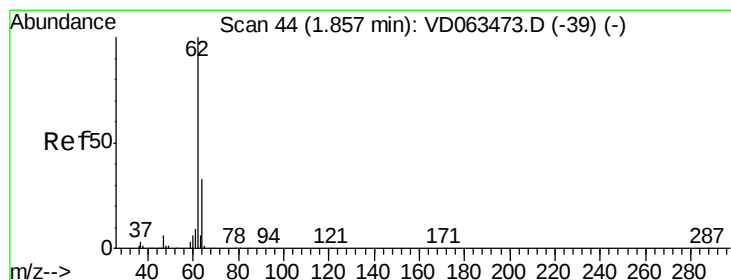
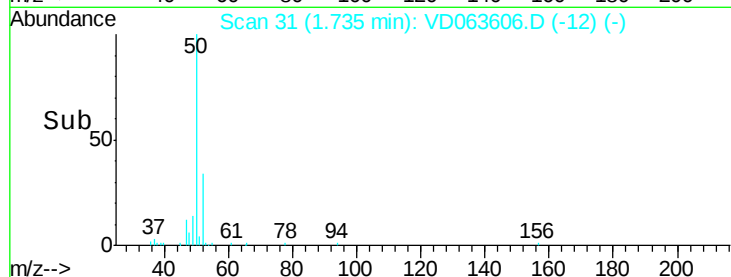
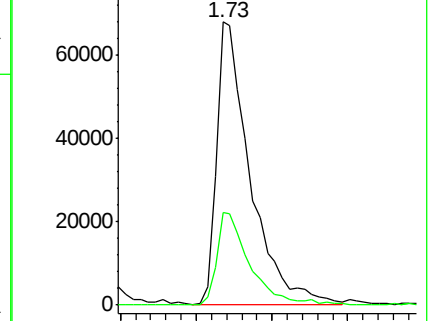
50 100

52 32.9 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.264 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.01 min

Lab File: VD063606.D

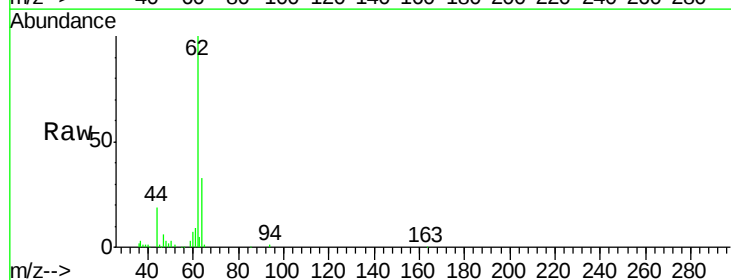
Acq: 15 Aug 2019 15:33

Tgt Ion: 62 Resp: 205367

Ion Ratio Lower Upper

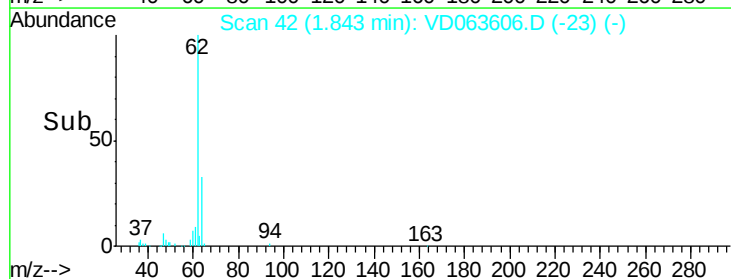
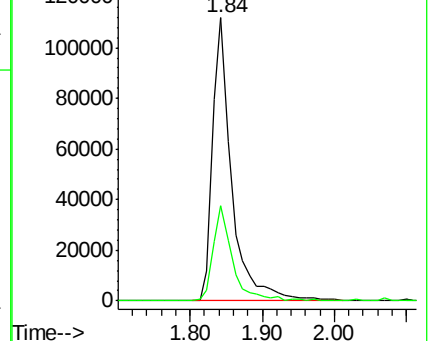
62 100

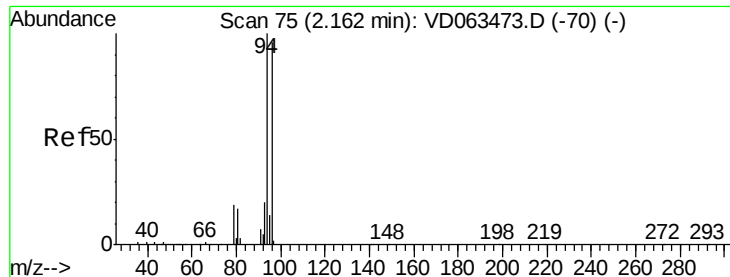
64 33.4 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.420 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

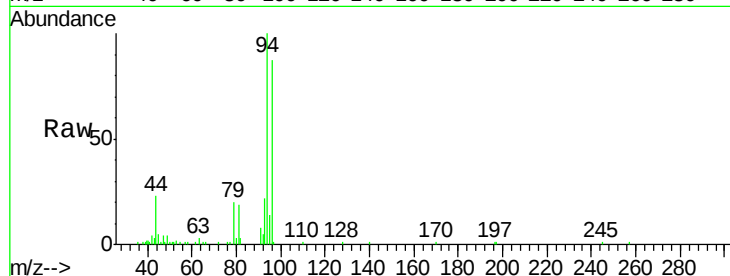
MSVOA_D

ClientSampleId :

VD0815SBS01

Tot Ion: 94 Resp: 83945

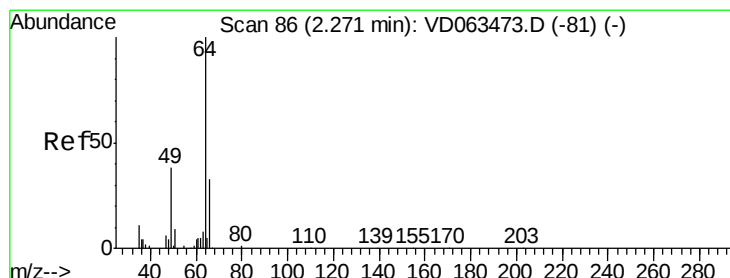
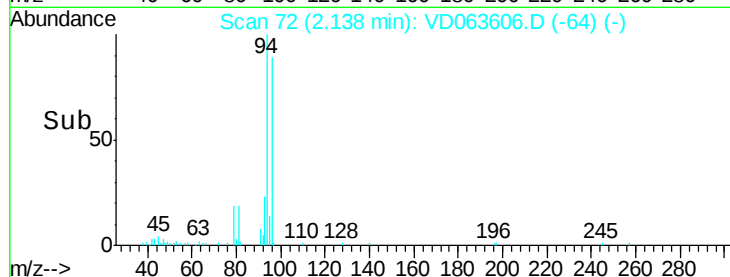
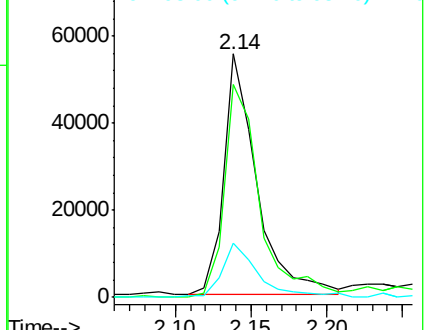
Ion	Ratio	Lower	Upper
94	100		
96	87.3	76.5	114.7
93	22.2	15.8	23.8



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: 17.675 ug/l

RT: 2.25 min Scan# 83

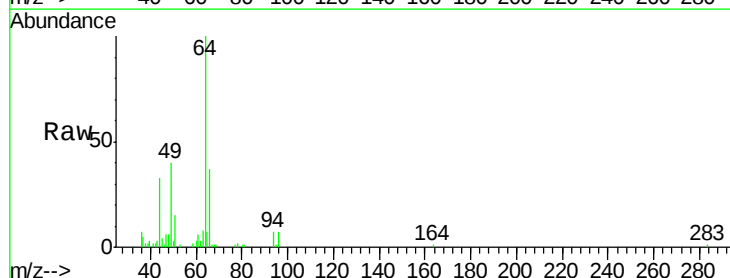
Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

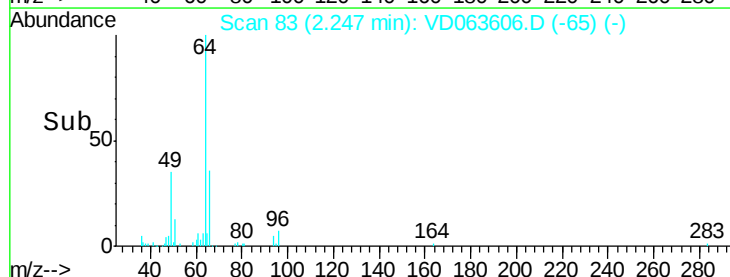
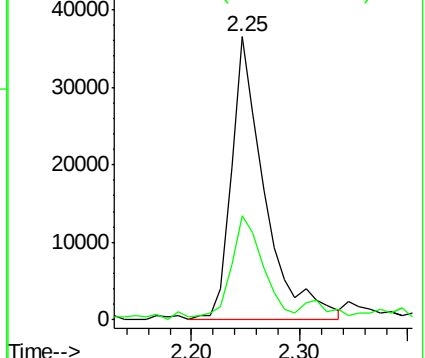
Tgt Ion: 64 Resp: 78063

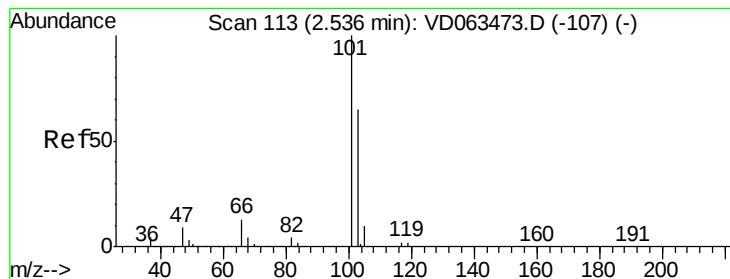
Ion	Ratio	Lower	Upper
64	100		
66	36.8	26.3	39.5



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 20.335 ug/l

RT: 2.52 min Scan# 111

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

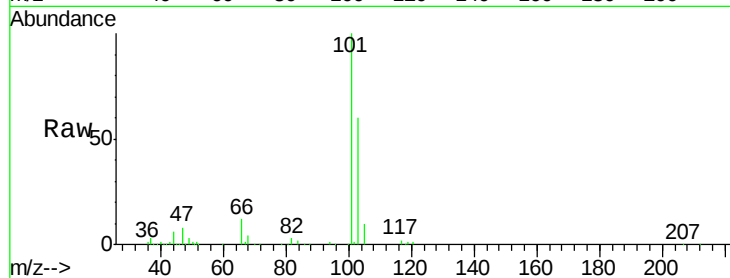
VD0815SBS01

Tot Ion:101 Resp: 385237

Ion Ratio Lower Upper

101 100

103 60.2 52.2 78.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

200000

150000

100000

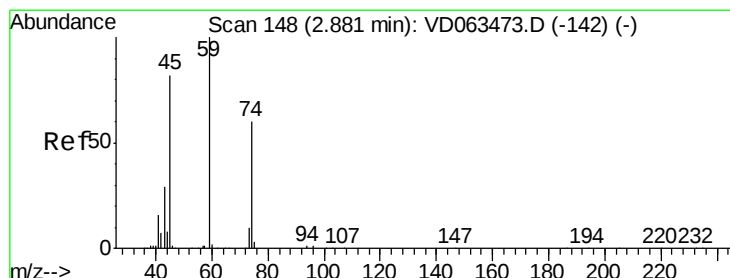
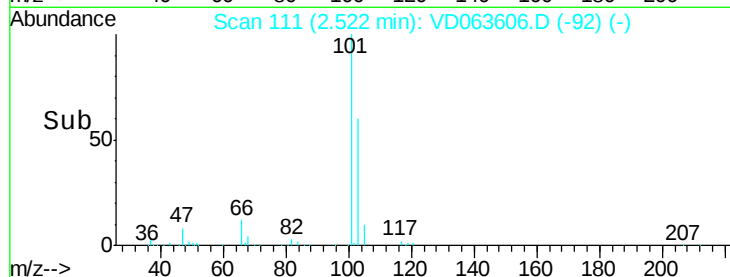
50000

0

Time-->

2.40 2.50 2.60 2.70

2.52



#8

Diethyl Ether

Concen: 21.159 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.01 min

Lab File: VD063606.D

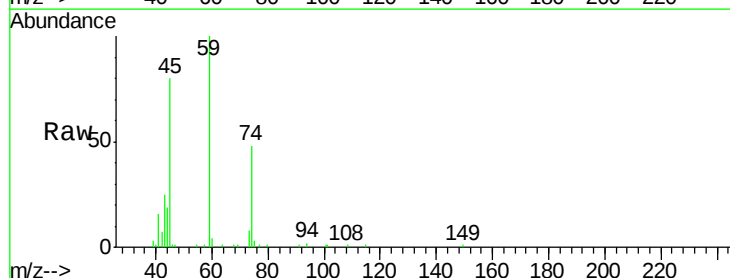
Acq: 15 Aug 2019 15:33

Tgt Ion: 74 Resp: 56596

Ion Ratio Lower Upper

74 100

45 165.9 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

50000

40000

30000

20000

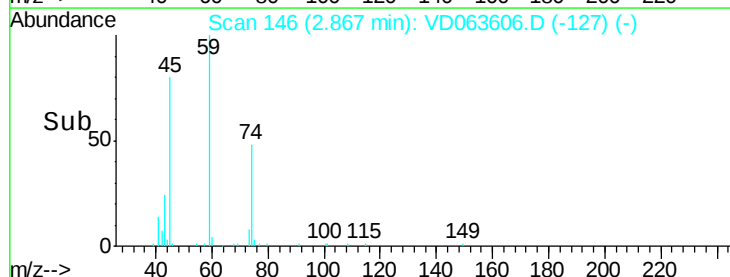
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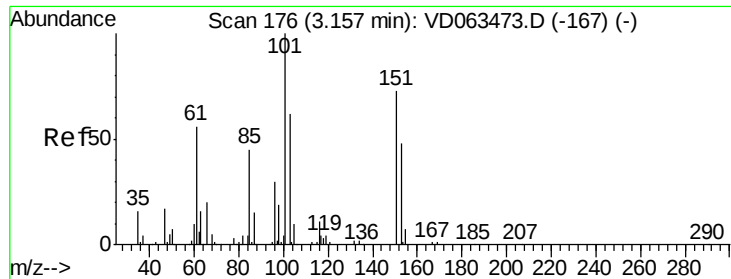
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Time-->

2.70 2.80 2.90 3.00

2.87





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.901 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

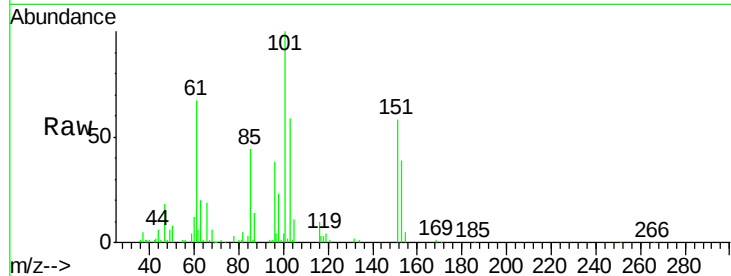
Tot Ion:101 Resp: 233801

Ion Ratio Lower Upper

101 100

85 44.0 35.8 53.6

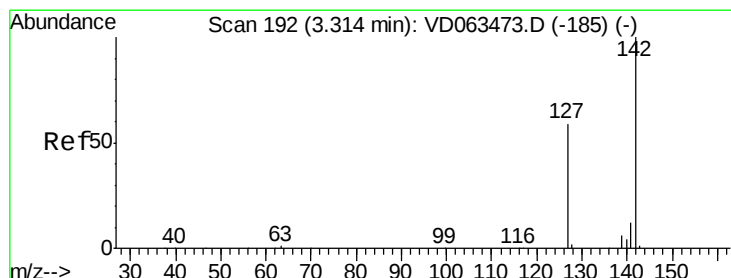
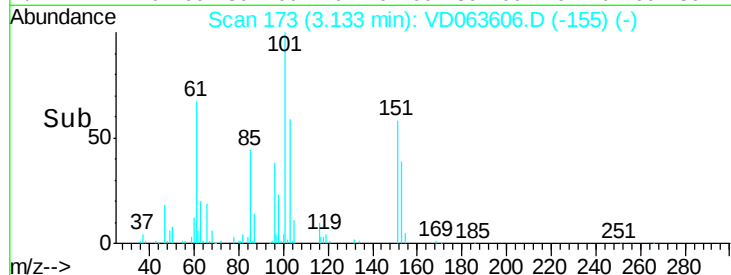
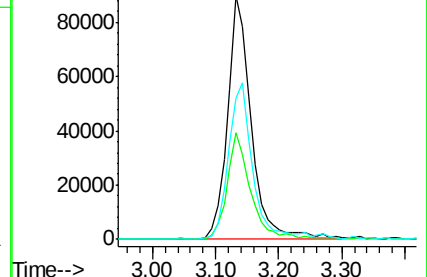
151 58.2 58.6 88.0#



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 18.086 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

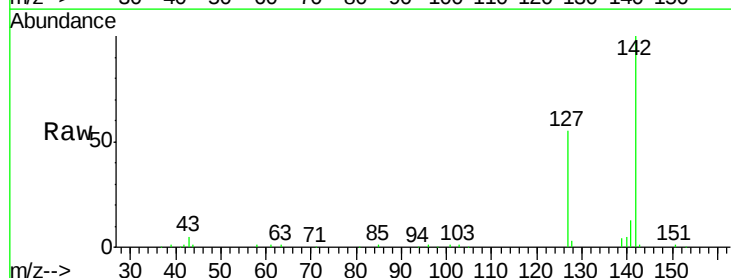
Tgt Ion:142 Resp: 286265

Ion Ratio Lower Upper

142 100

127 55.2 47.2 70.8

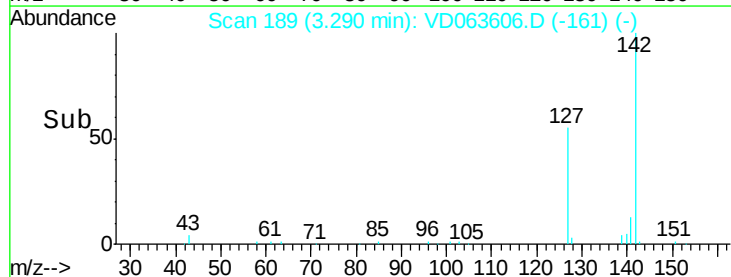
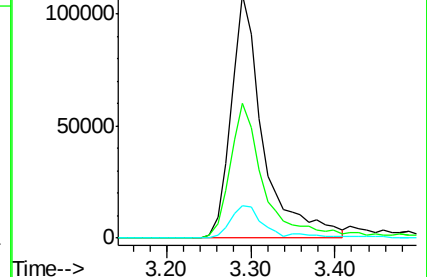
141 13.3 9.8 14.8

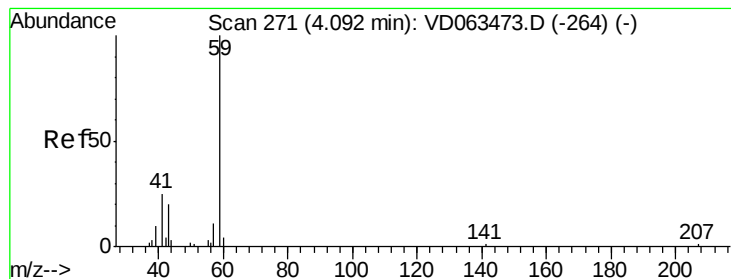


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



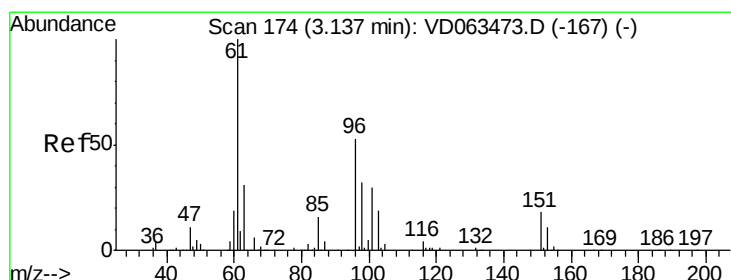
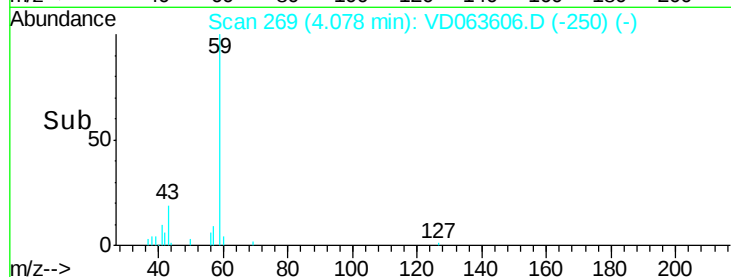
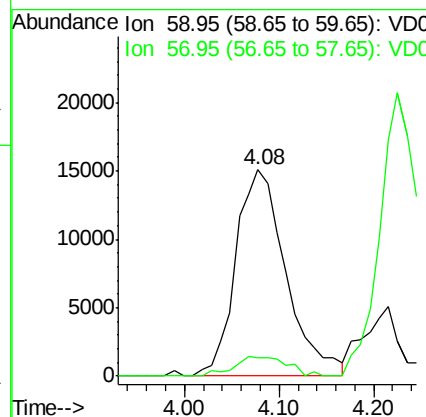
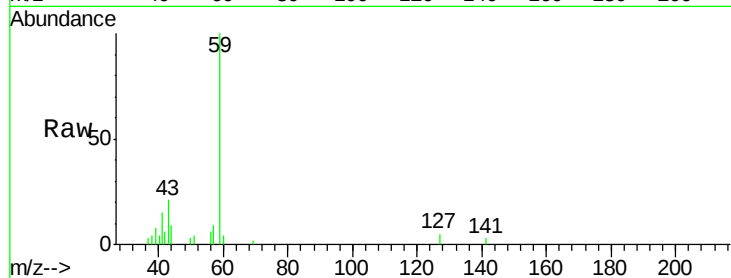


#11

Tert butyl alcohol
Concen: 116.130 ug/l
RT: 4.08 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

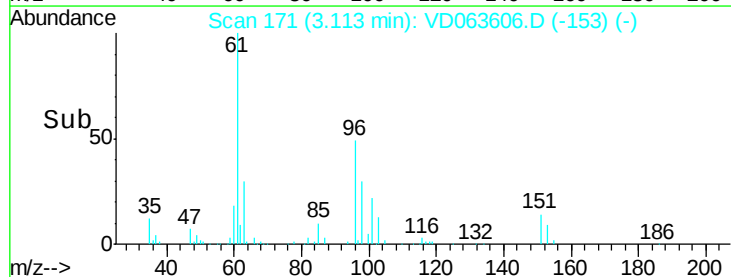
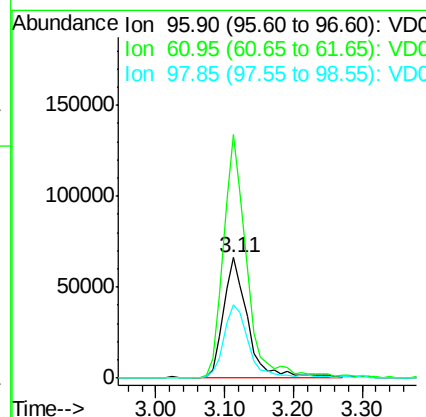
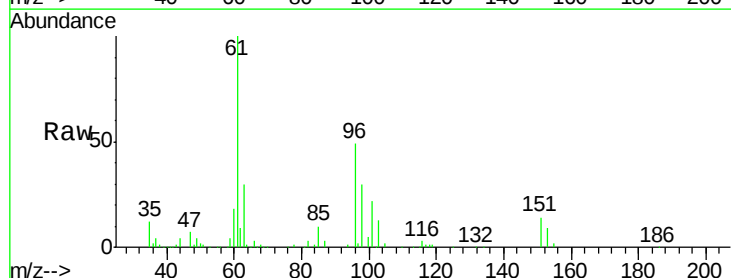
Tot Ion: 59 Resp: 55619
Ion Ratio Lower Upper
59 100
57 8.9 8.7 13.1

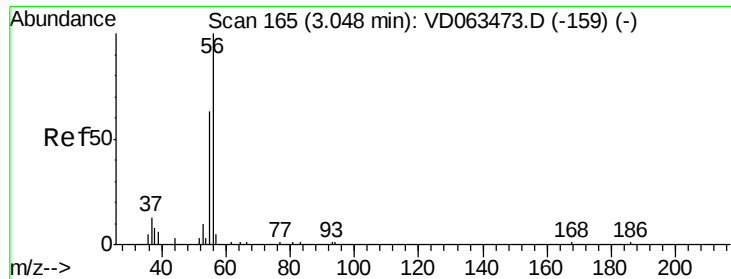


#12

1,1-Dichloroethene
Concen: 19.099 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 96 Resp: 158843
Ion Ratio Lower Upper
96 100
61 202.3 151.7 227.5
98 60.8 48.4 72.6





#13

Acrolein

Concen: 85.112 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

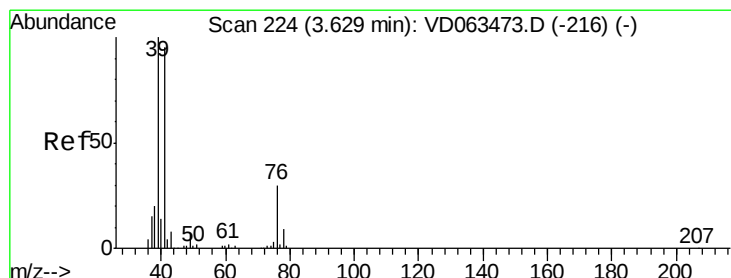
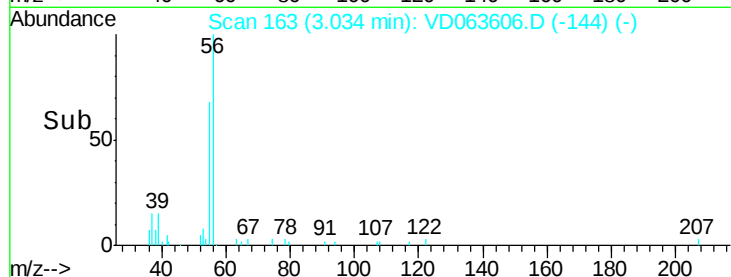
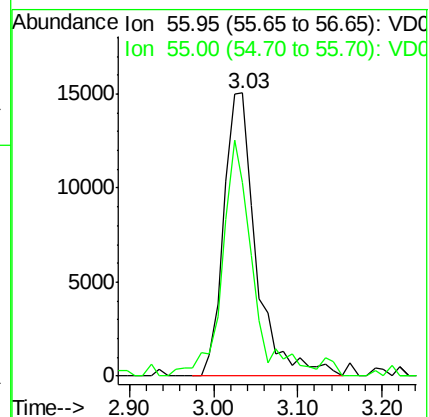
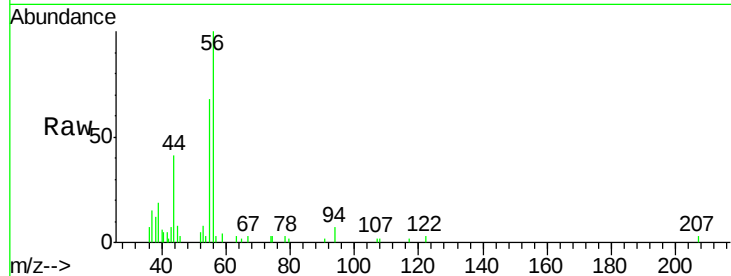
VD0815SBS01

Tot Ion: 56 Resp: 40124

Ion Ratio Lower Upper

56 100

55 68.5 51.3 76.9



#14

Allyl chloride

Concen: 20.840 ug/l

RT: 3.61 min Scan# 221

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

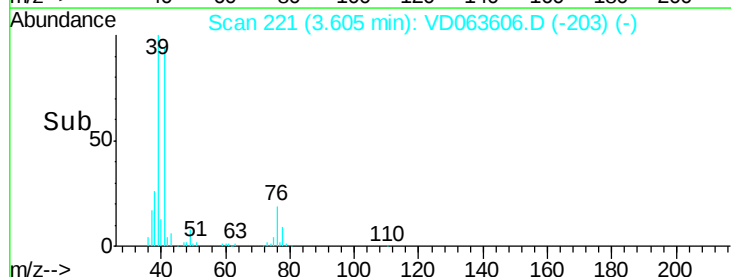
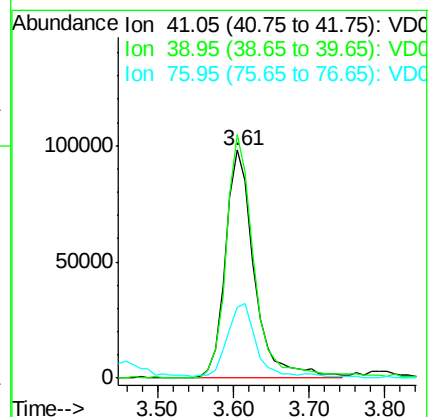
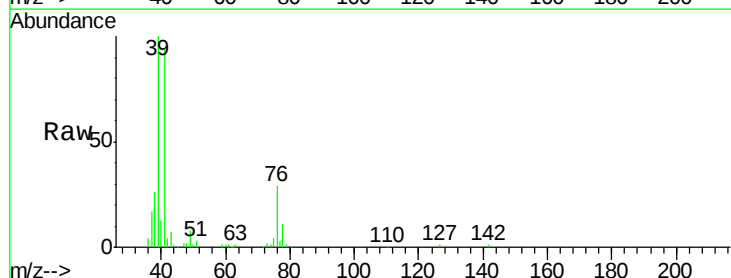
Tgt Ion: 41 Resp: 260557

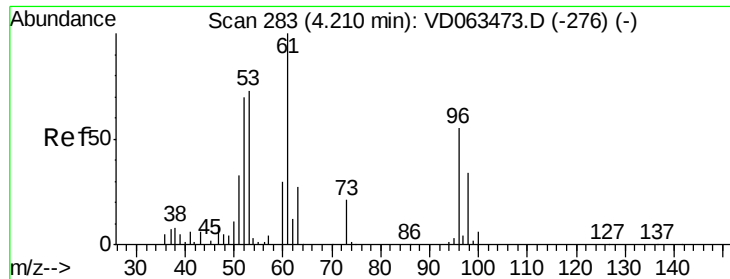
Ion Ratio Lower Upper

41 100

39 106.8 84.2 126.4

76 31.3 26.0 39.0





#15

Acrylonitrile

Concen: 106.651 ug/l

RT: 4.19 min Scan# 280

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

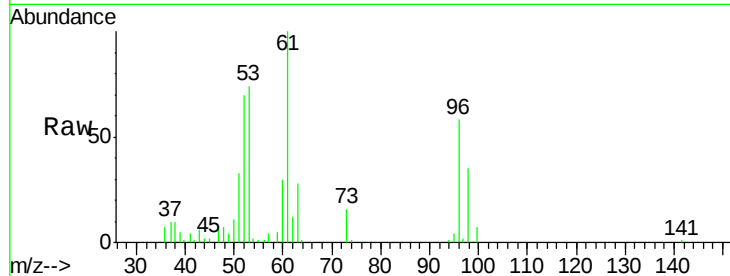
Tot Ion: 53 Resp: 135297

Ion Ratio Lower Upper

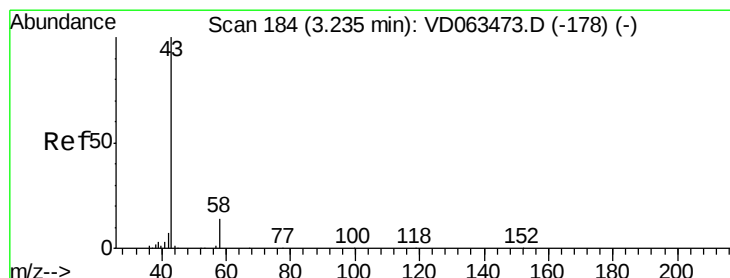
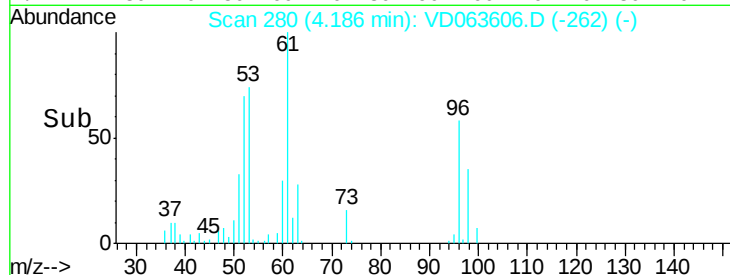
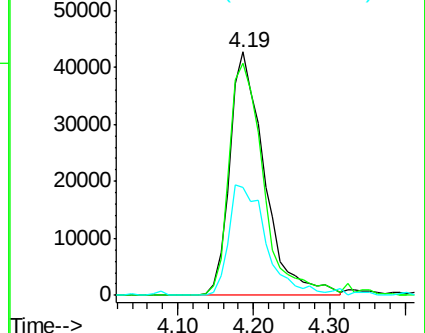
53 100

52 95.2 77.4 116.0

51 44.3 36.7 55.1



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: 96.534 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD063606.D

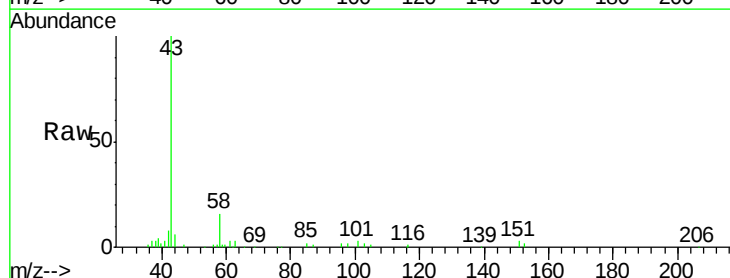
Acq: 15 Aug 2019 15:33

Tgt Ion: 43 Resp: 215898

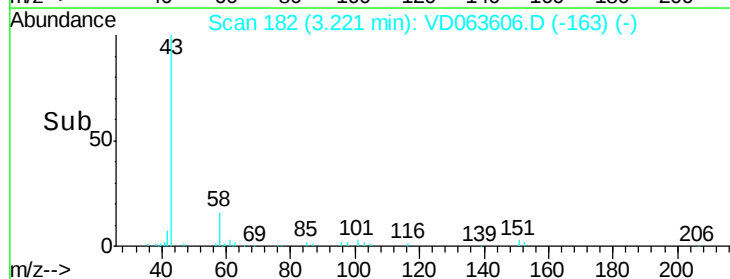
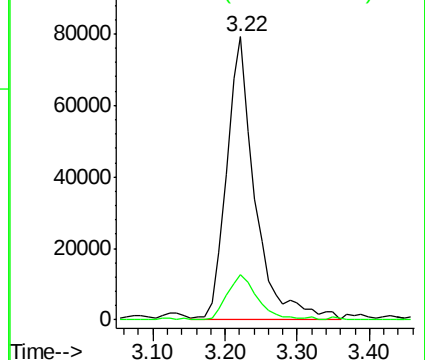
Ion Ratio Lower Upper

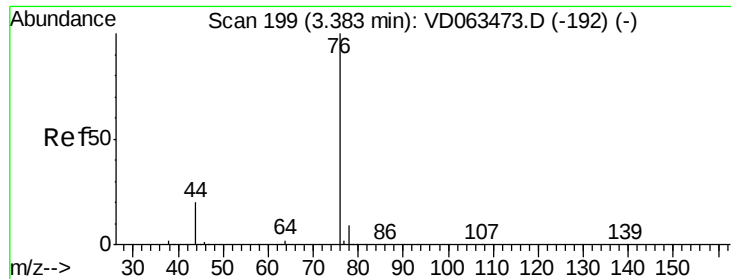
43 100

58 16.1 11.4 17.2



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

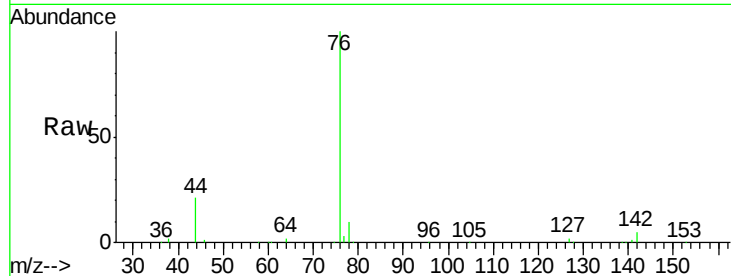




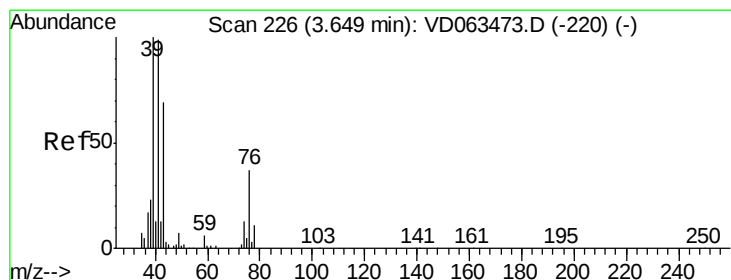
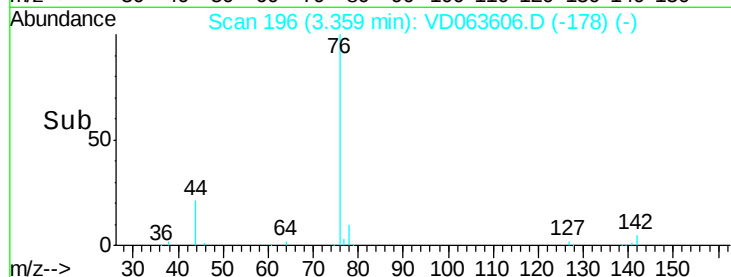
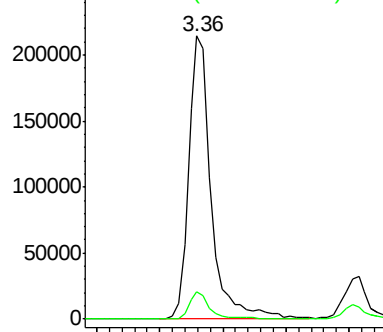
#17
Carbon Disulfide
Concen: 20.406 ug/l
RT: 3.36 min Scan# 196
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

Tot Ion: 76 Resp: 535618
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0

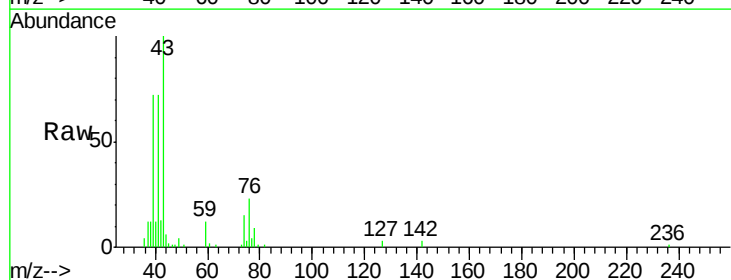


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

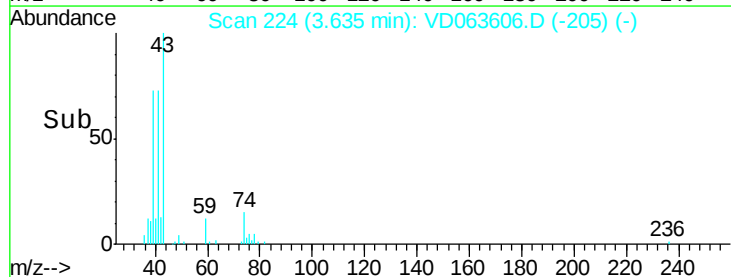
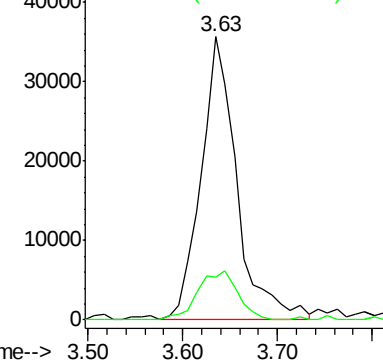


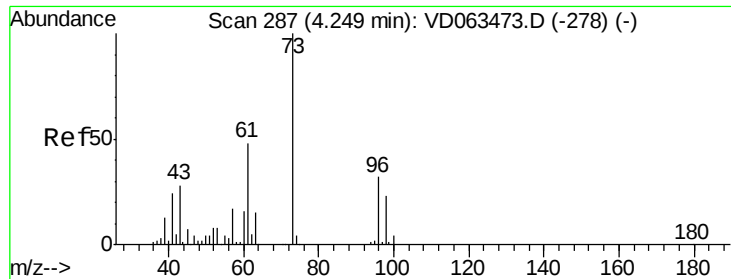
#18
Methyl Acetate
Concen: 22.027 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 43 Resp: 93312
Ion Ratio Lower Upper
43 100
74 15.0 15.4 23.2#



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

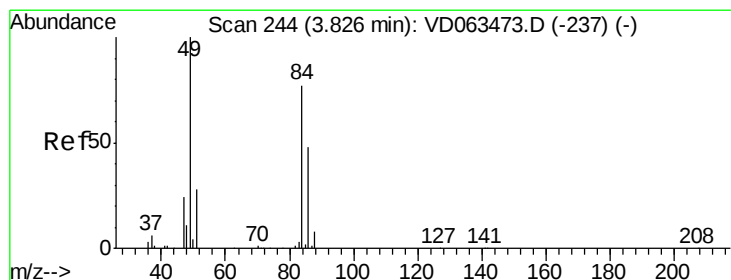
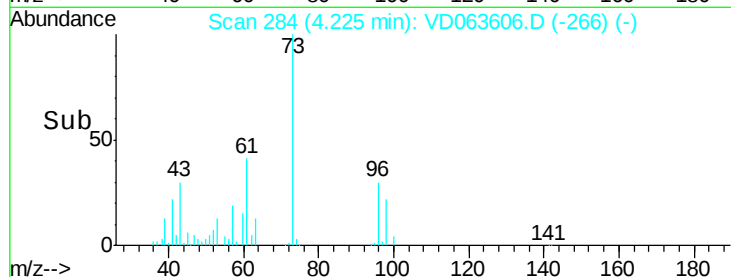
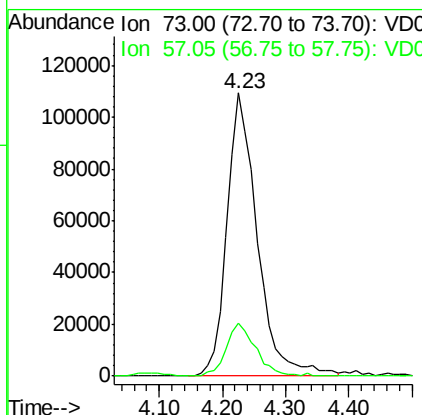
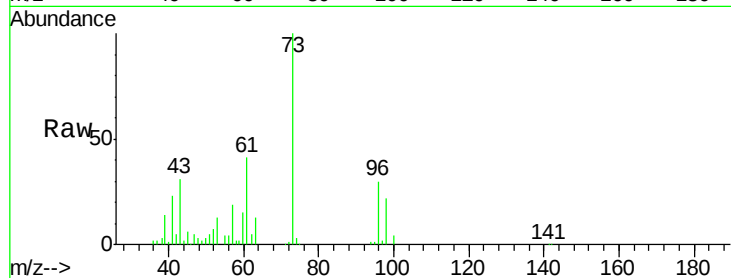




#19
Methyl tert-butyl Ether
Concen: 21.886 ug/l
RT: 4.23 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

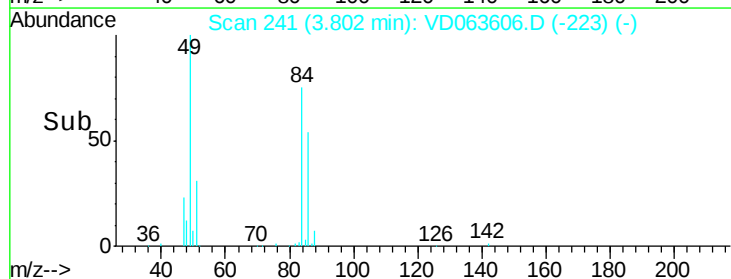
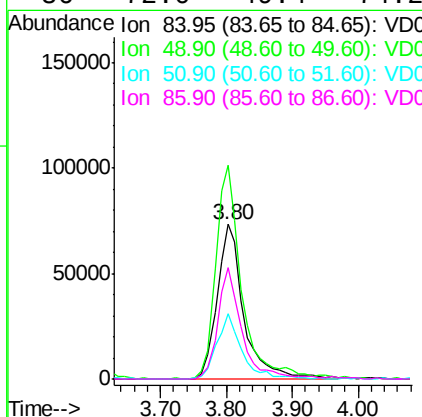
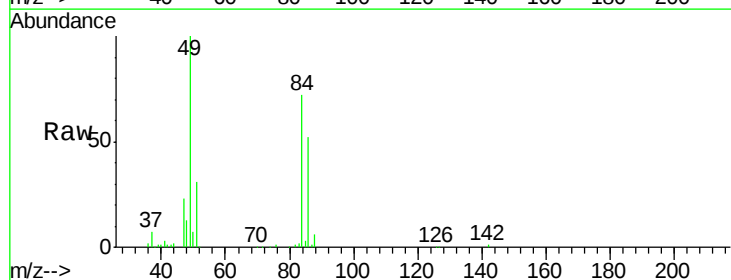
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

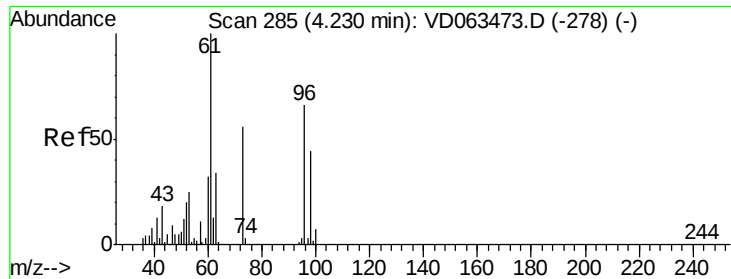
Tot Ion: 73 Resp: 364021
Ion Ratio Lower Upper
73 100
57 18.9 14.0 21.0



#20
Methylene Chloride
Concen: 21.348 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 84 Resp: 206453
Ion Ratio Lower Upper
84 100
49 138.1 103.4 155.2
51 42.6 28.5 42.7
86 72.0 49.4 74.2





#21

trans-1,2-Dichloroethene

Concen: 21.943 ug/l

RT: 4.21 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBSD01

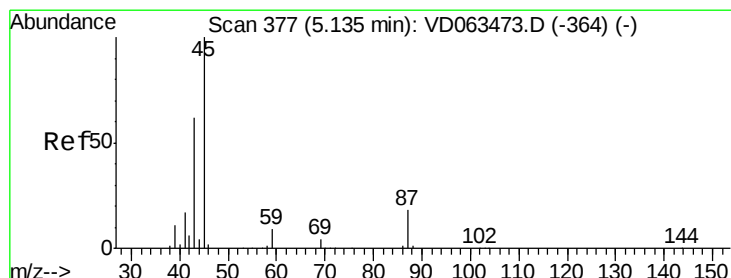
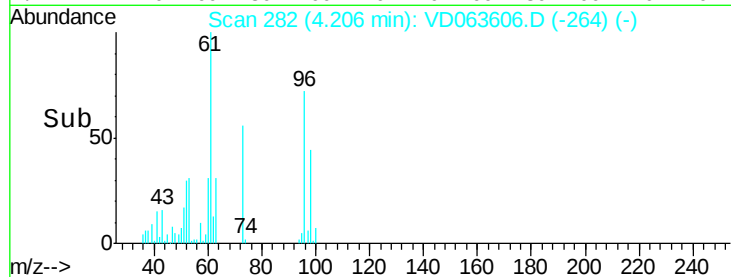
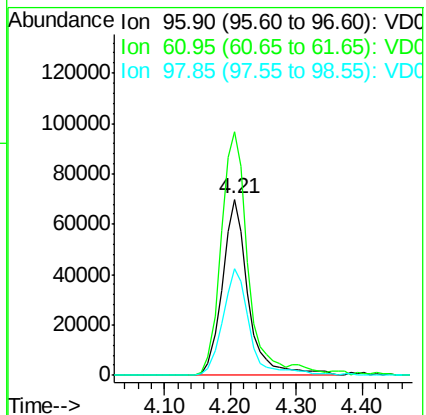
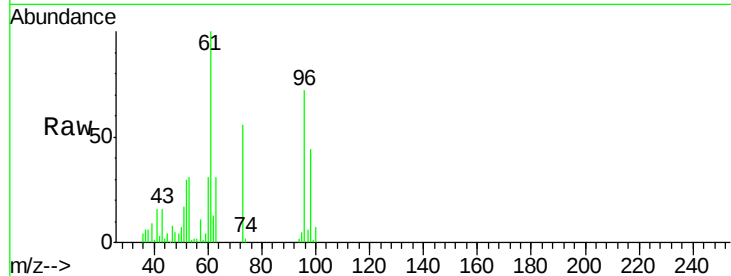
Tot Ion: 96 Resp: 192043

Ion Ratio Lower Upper

96 100

61 138.2 121.7 182.5

98 60.4 54.2 81.2



#22

Diisopropyl ether

Concen: 20.538 ug/l

RT: 5.12 min Scan# 375

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Tgt Ion: 45 Resp: 529883

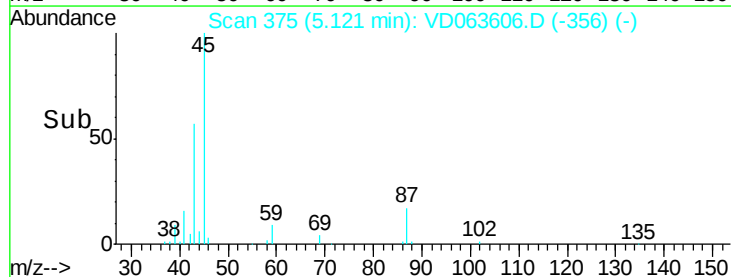
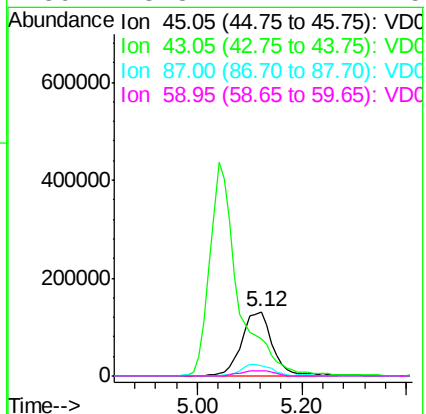
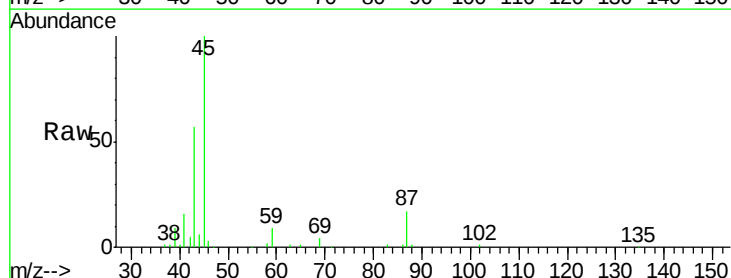
Ion Ratio Lower Upper

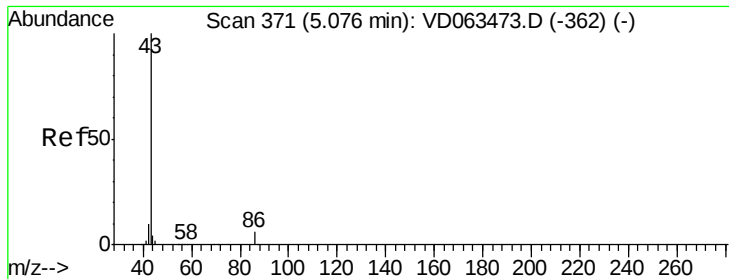
45 100

43 57.1 50.3 75.5

87 16.9 14.3 21.5

59 8.8 7.7 11.5





#23

Vinyl Acetate

Concen: 109.321 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.03 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

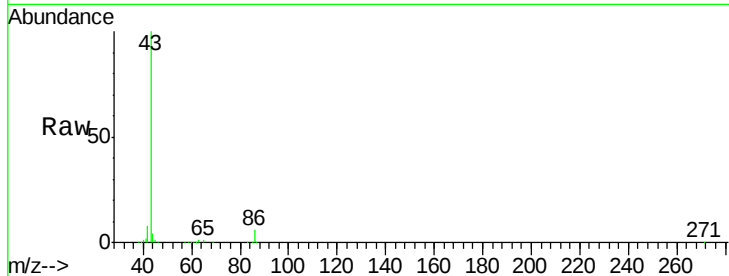
VD0815SBS01

Tot Ion: 43 Resp: 1639670

Ion Ratio Lower Upper

43 100

86 6.0 4.8 7.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.04

400000

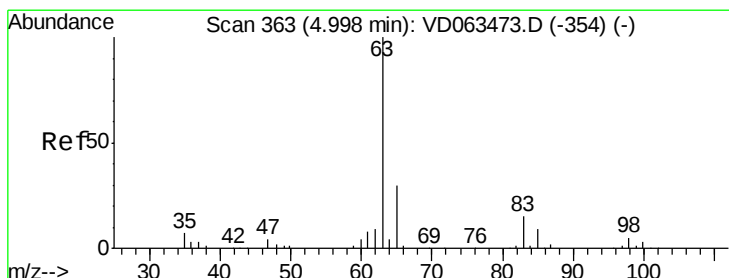
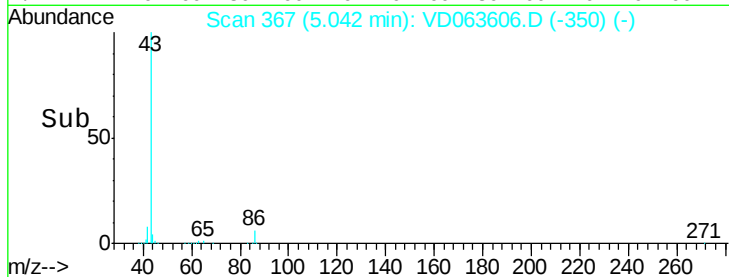
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.013 ug/l

RT: 4.96 min Scan# 359

Delta R.T. -0.03 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

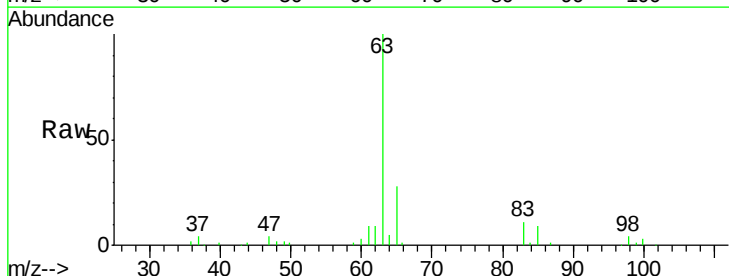
Tgt Ion: 63 Resp: 352246

Ion Ratio Lower Upper

63 100

98 4.4 2.4 7.2

100 2.9 1.3 3.8



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

4.96

120000

100000

80000

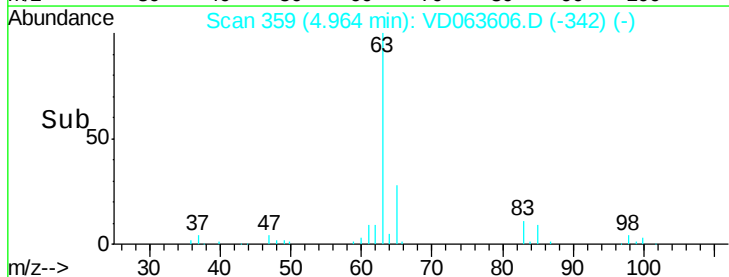
60000

40000

20000

0

Time-->





#25

2-Butanone

Concen: 101.744 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

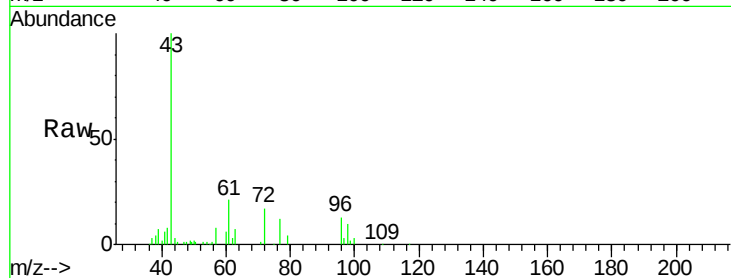
VD0815SBSD01

Tot Ion: 43 Resp: 224735

Ion Ratio Lower Upper

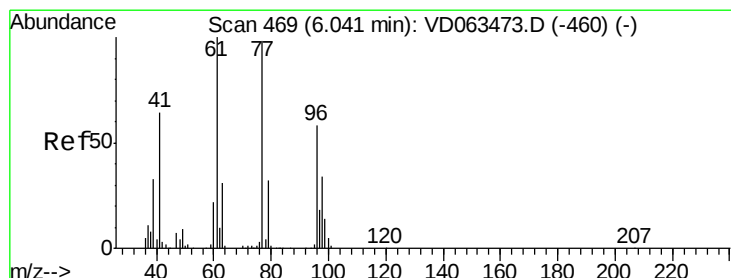
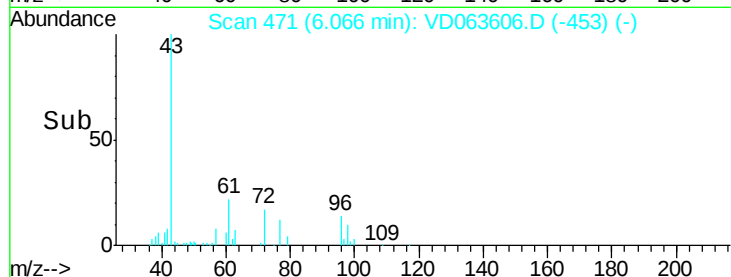
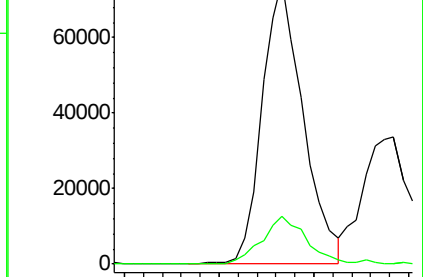
43 100

72 16.8 15.1 22.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.020 ug/l

RT: 6.01 min Scan# 465

Delta R.T. -0.03 min

Lab File: VD063606.D

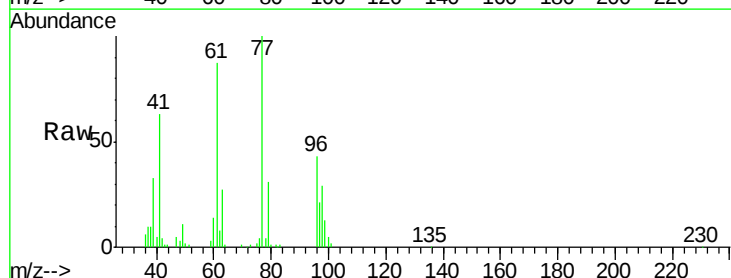
Acq: 15 Aug 2019 15:33

Tgt Ion: 77 Resp: 319080

Ion Ratio Lower Upper

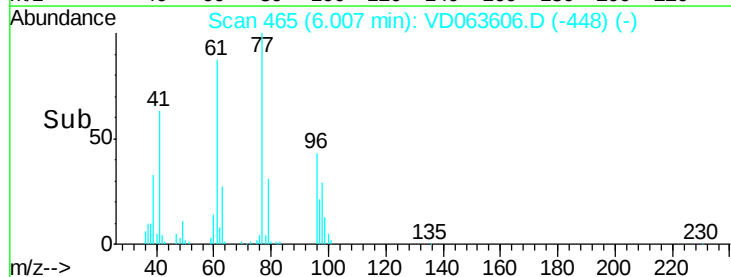
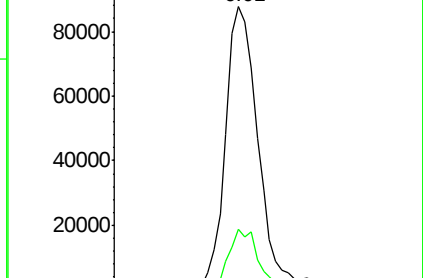
77 100

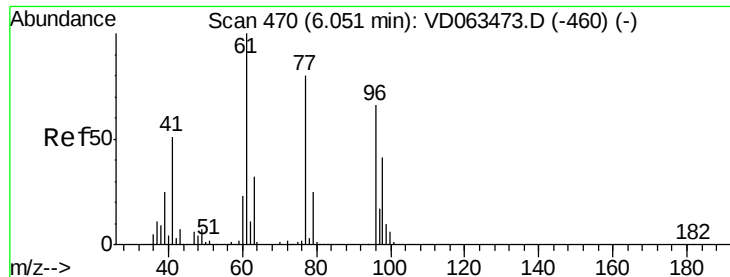
97 21.3 9.0 27.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



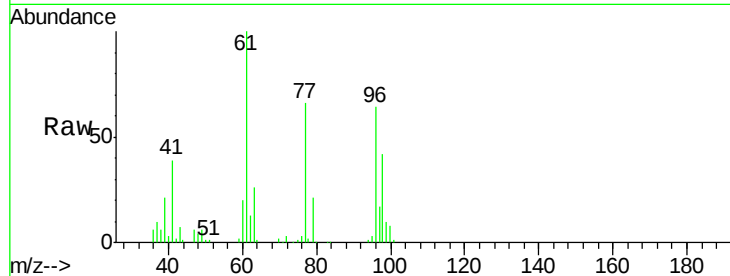


#27

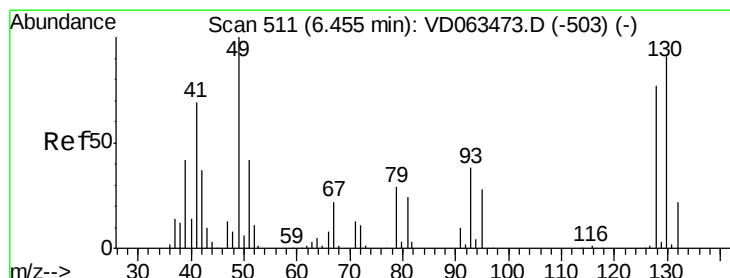
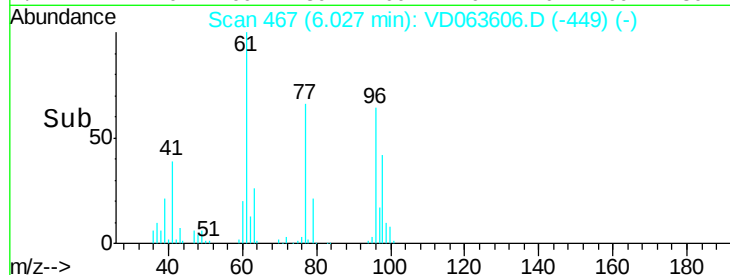
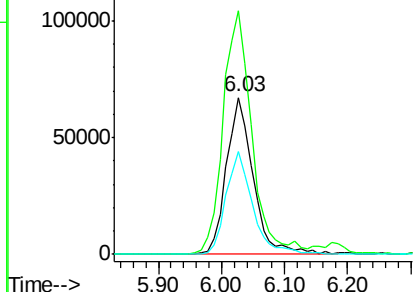
cis-1,2-Dichloroethene
Concen: 20.581 ug/l
RT: 6.03 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

Tot Ion	96	Resp	197076
Ion	Ratio	Lower	Upper
96	100		
61	155.2	0.0	304.0
98	65.2	0.0	124.8



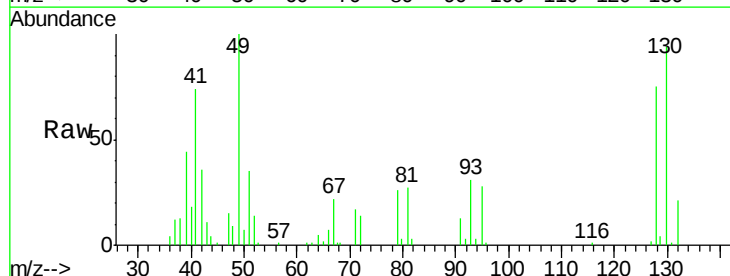
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



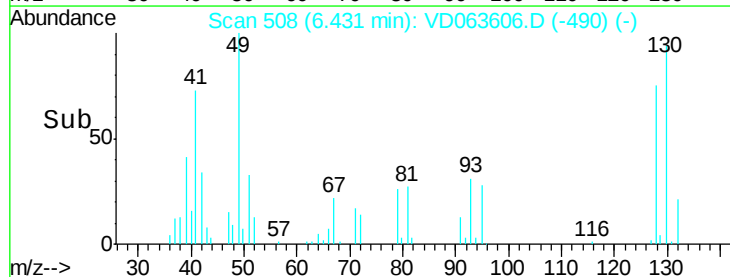
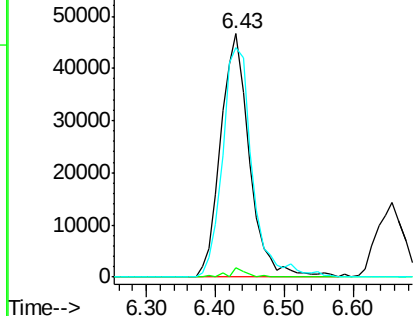
#28

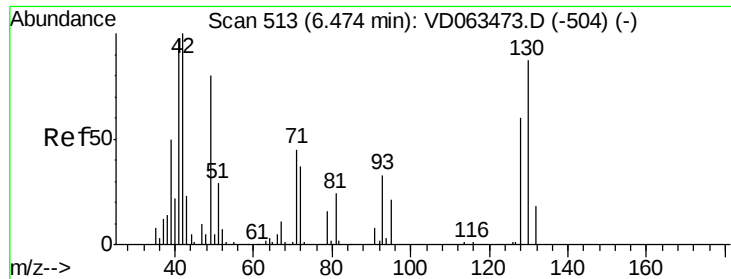
Bromochloromethane
Concen: 20.864 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion	49	Resp	135311
Ion	Ratio	Lower	Upper
49	100		
129	3.8	0.0	6.4
130	94.1	72.4	108.6



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





#29

Tetrahydrofuran

Concen: 111.817 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

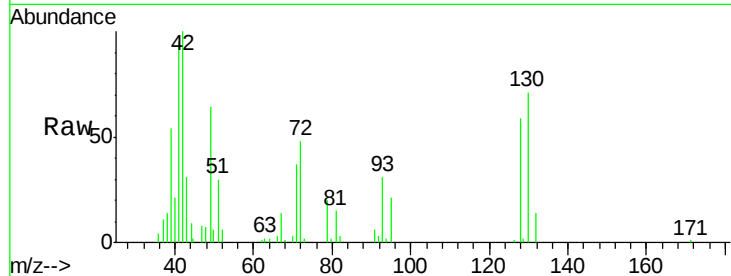
Tot Ion: 42 Resp: 115089

Ion Ratio Lower Upper

42 100

72 39.8 31.5 47.3

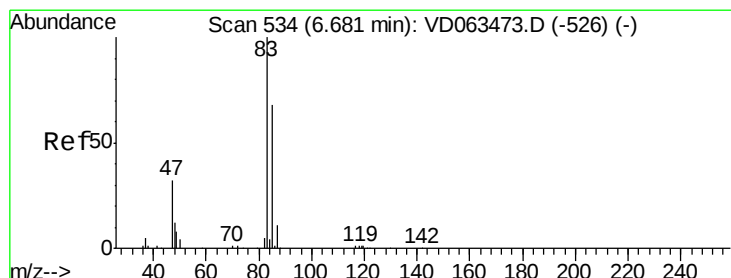
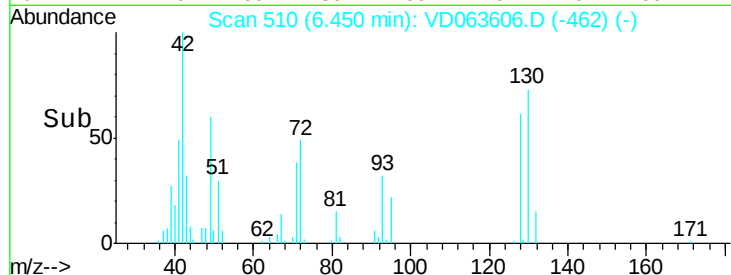
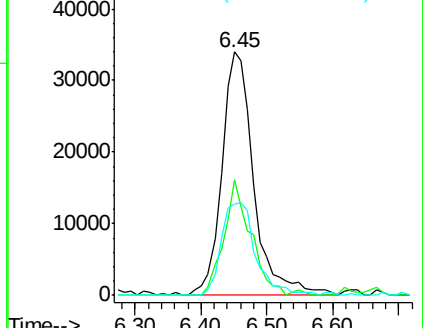
71 40.6 33.8 50.8



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: 21.182 ug/l

RT: 6.66 min Scan# 531

Delta R.T. -0.02 min

Lab File: VD063606.D

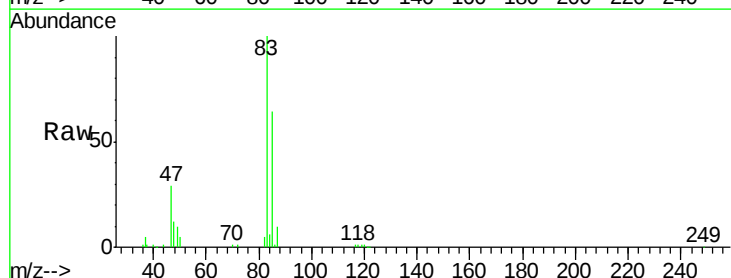
Acq: 15 Aug 2019 15:33

Tgt Ion: 83 Resp: 421305

Ion Ratio Lower Upper

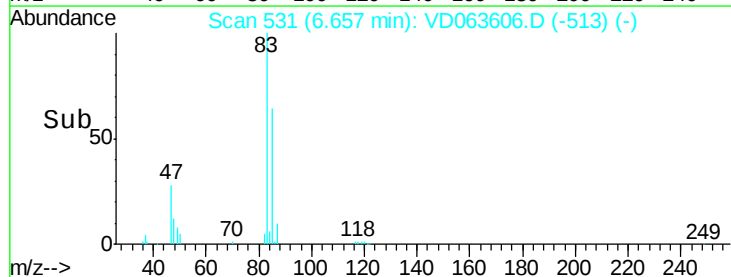
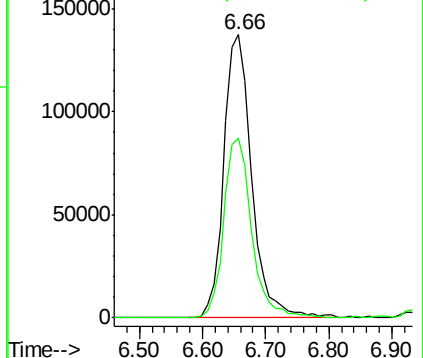
83 100

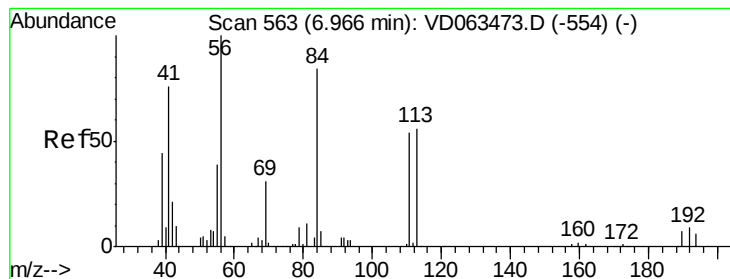
85 63.5 54.8 82.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 21.086 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

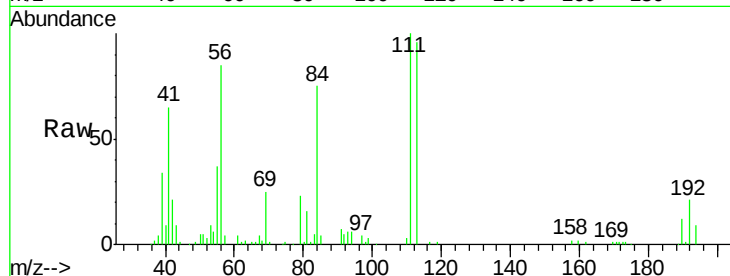
Tot Ion: 56 Resp: 209468

Ion Ratio Lower Upper

56 100

69 29.2 25.0 37.6

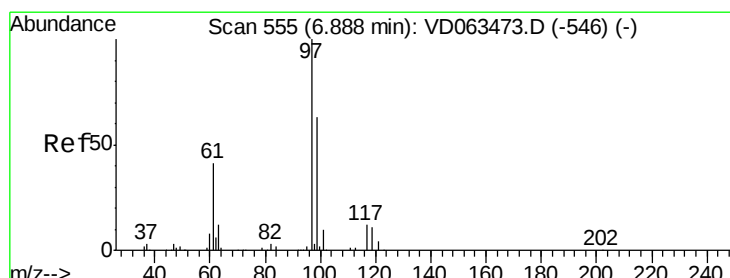
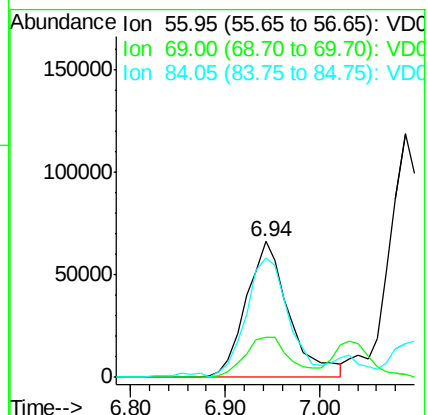
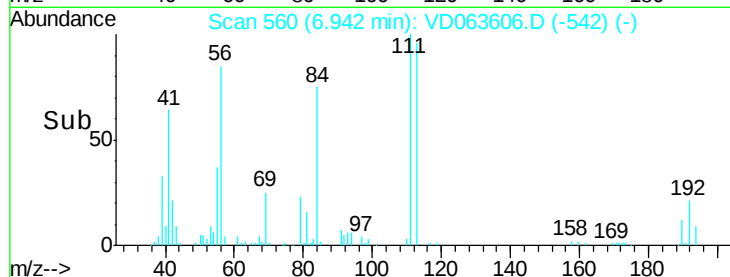
84 88.2 69.7 104.5



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: 21.583 ug/l

RT: 6.86 min Scan# 552

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

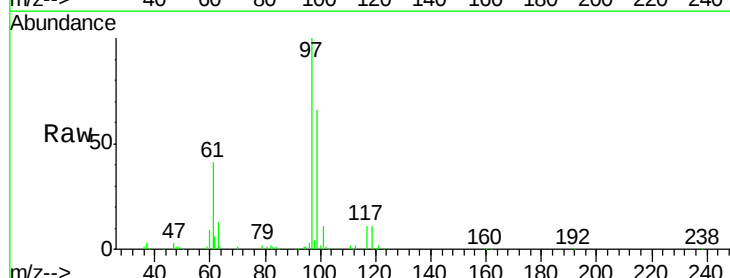
Tgt Ion: 97 Resp: 410636

Ion Ratio Lower Upper

97 100

99 66.0 50.2 75.4

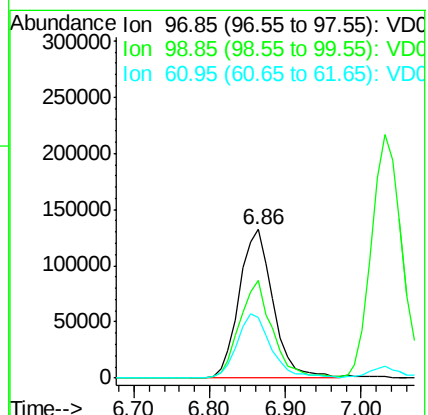
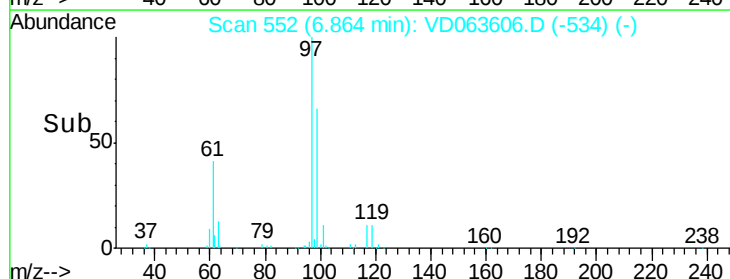
61 40.6 33.1 49.7

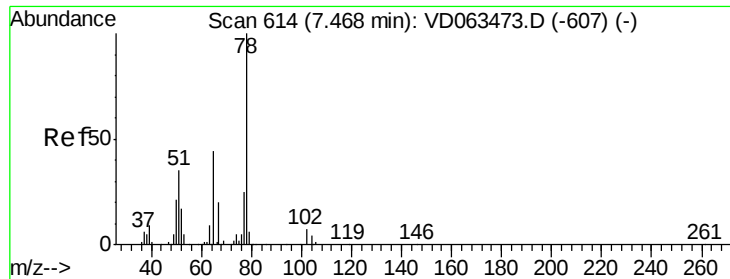


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC

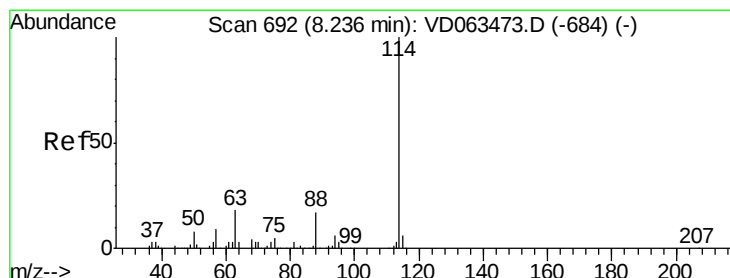
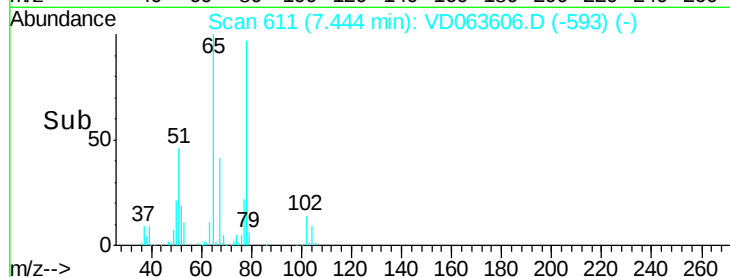
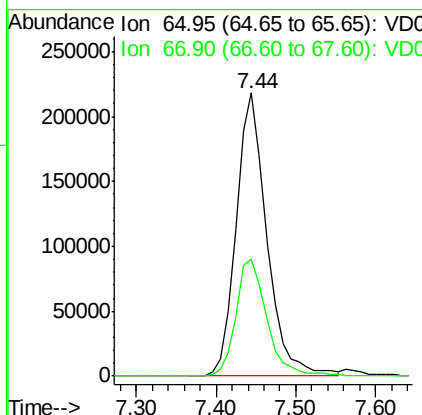
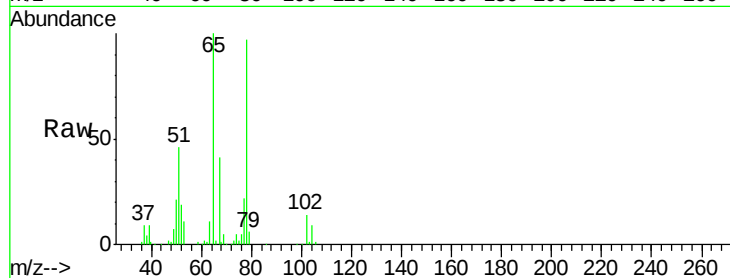




#33
 1,2-Dichloroethane-d4
 Concen: 52.858 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

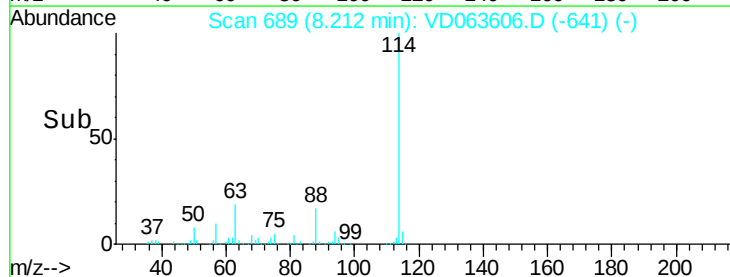
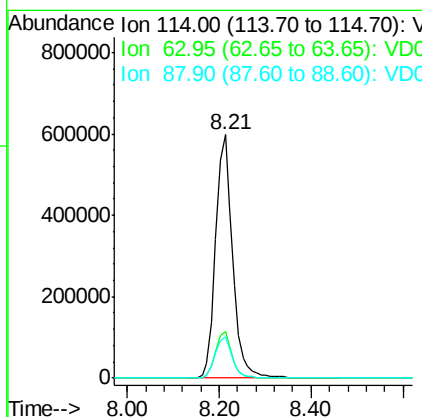
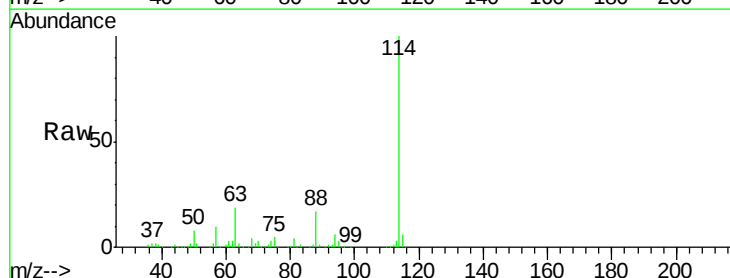
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0815SBSD01

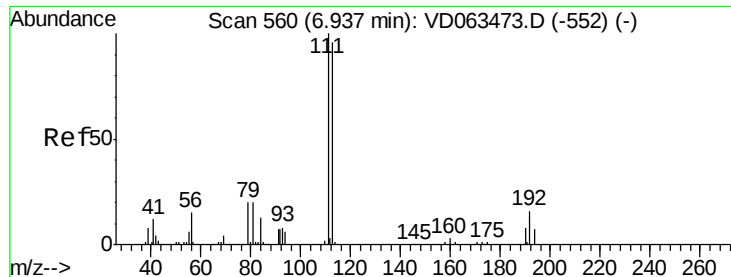
Tot Ion: 65 Resp: 581548
 Ion Ratio Lower Upper
 65 100
 67 41.2 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.02 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

Tgt Ion: 114 Resp: 1509538
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 36.2
 88 16.9 0.0 35.0





#35

Dibromofluoromethane

Concen: 51.807 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBSD01

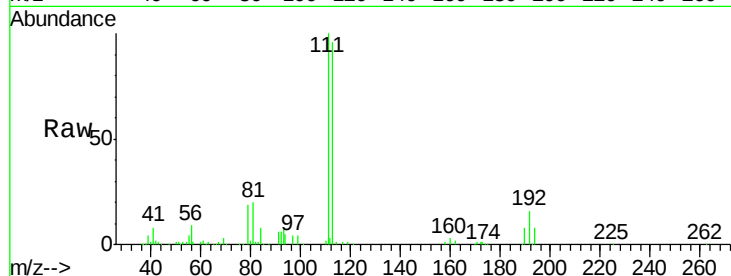
Tot Ion:113 Resp: 658650

Ion Ratio Lower Upper

113 100

111 104.3 83.1 124.7

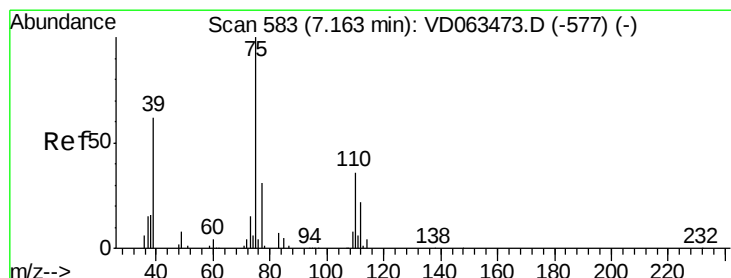
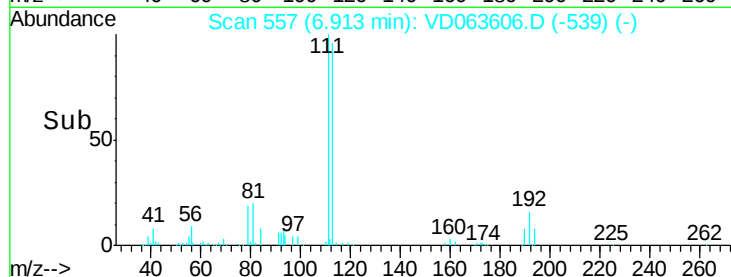
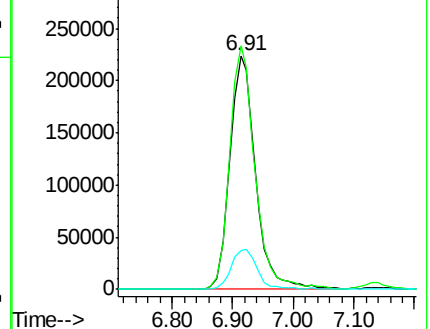
192 16.6 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 20.611 ug/l

RT: 7.14 min Scan# 580

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

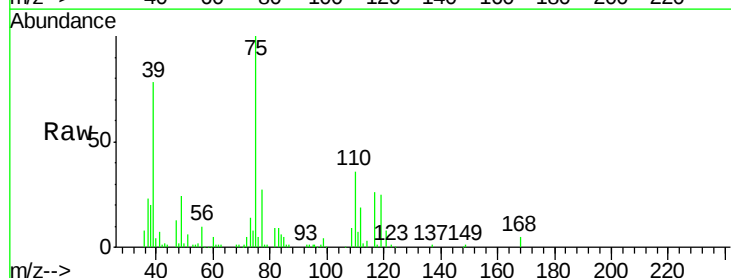
Tgt Ion: 75 Resp: 275047

Ion Ratio Lower Upper

75 100

110 36.5 17.6 52.8

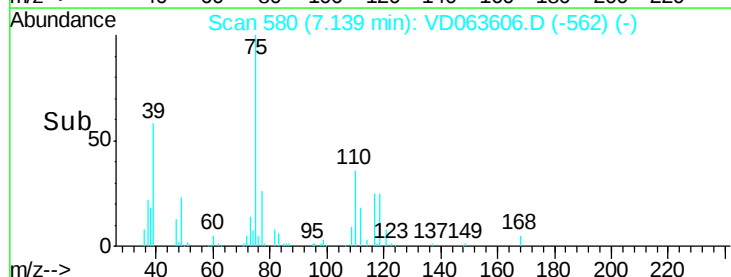
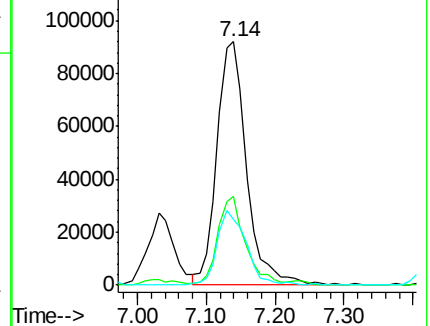
77 27.0 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

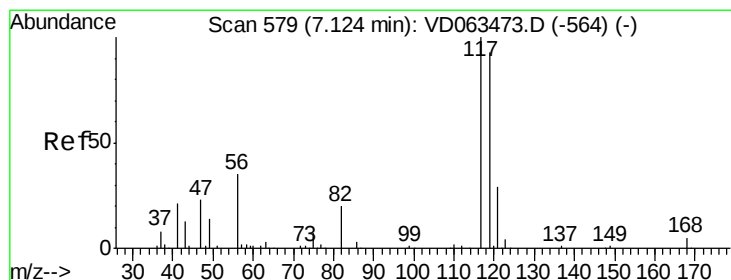
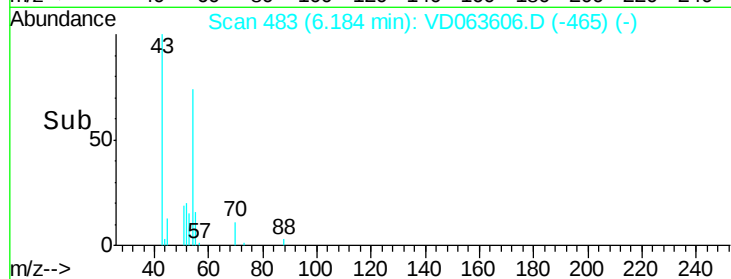
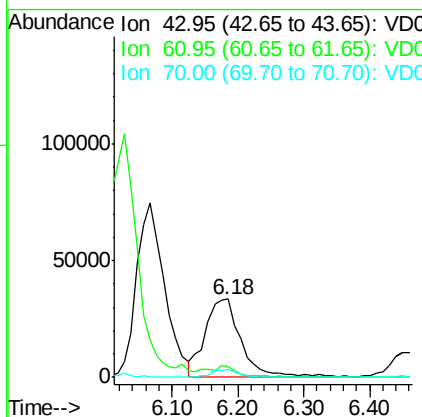
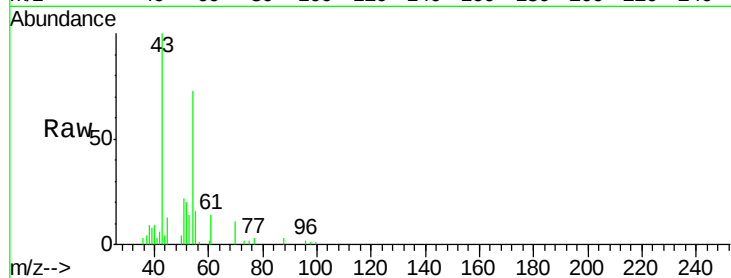




#37
Ethyl Acetate
Concen: 21.776 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

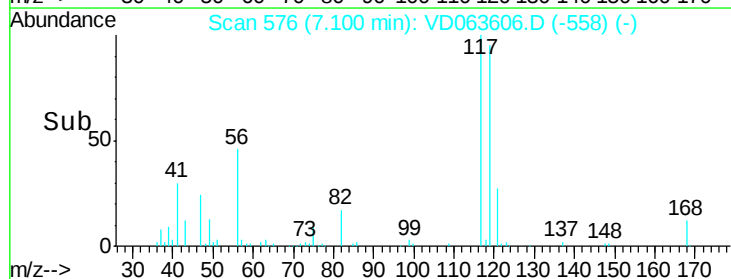
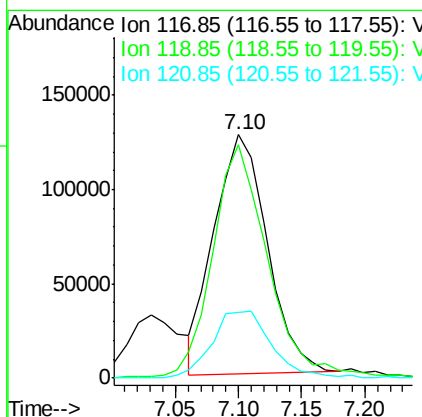
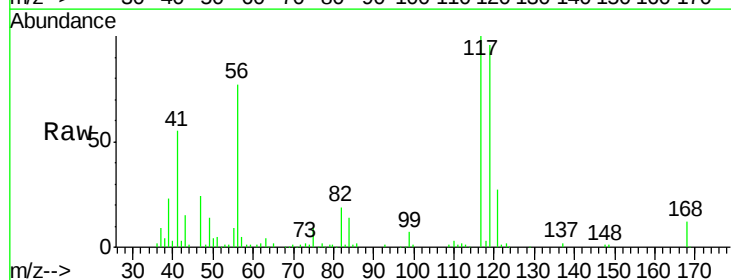
Instrument :
MSVOA_D
ClientSampleID :
VD0815SBS01

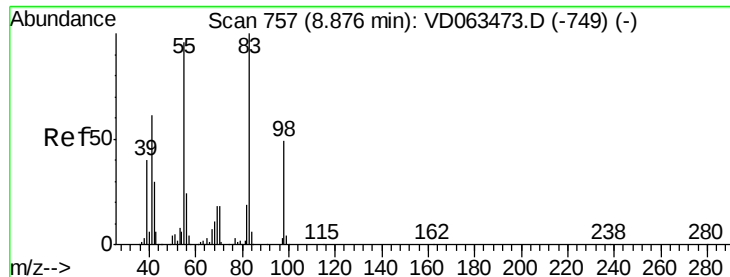
Tot Ion	43	Resp	121768
Ion Ratio	100		
Lower	9.0		
Upper	13.6		
61	14.1		
70	10.7		
6.9			
10.3			



#38
Carbon Tetrachloride
Concen: 18.370 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion	117	Resp	369457
Ion Ratio	100		
Lower	74.2		
Upper	111.2		
119	95.8		
121	27.2		
23.1			
34.7			

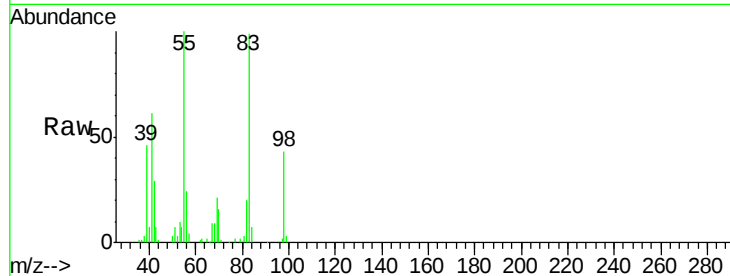




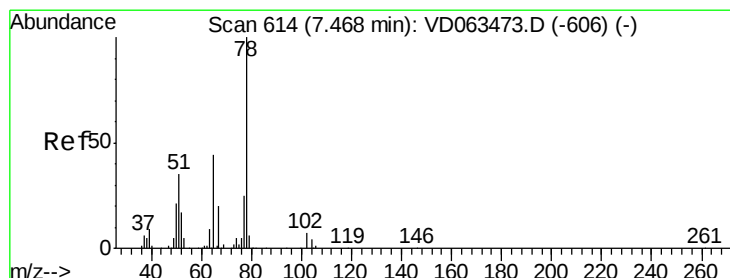
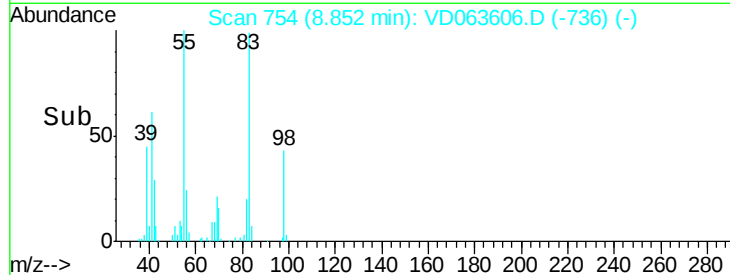
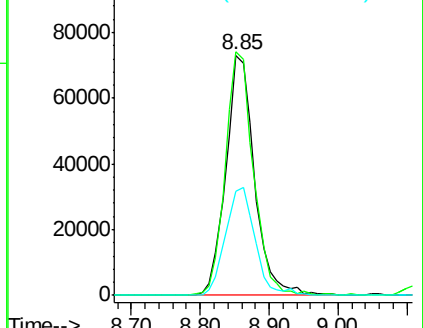
#39
Methvlcvclohexane
Concen: 18.554 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Instrument :
MSVOA_D
ClientSampleId :
VD0815SBS01

Tot Ion: 83 Resp: 210544
Ion Ratio Lower Upper
83 100
55 101.4 76.6 114.8
98 43.3 39.4 59.0

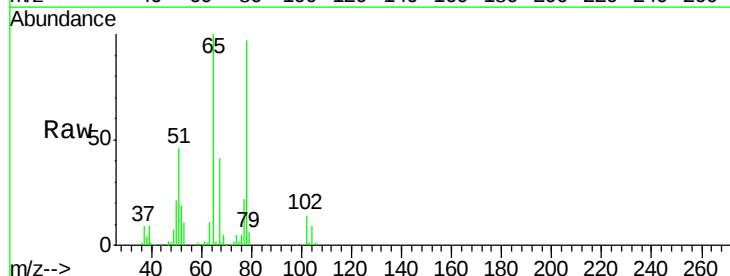


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

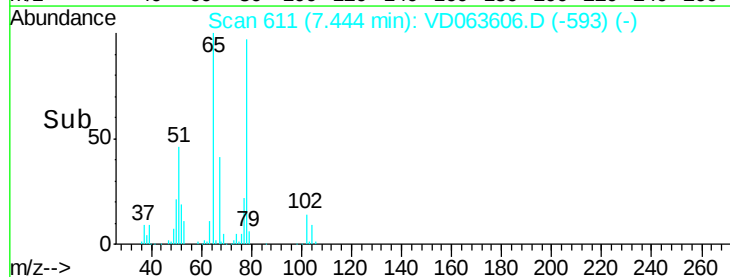
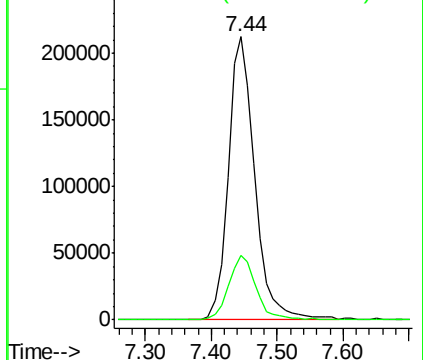


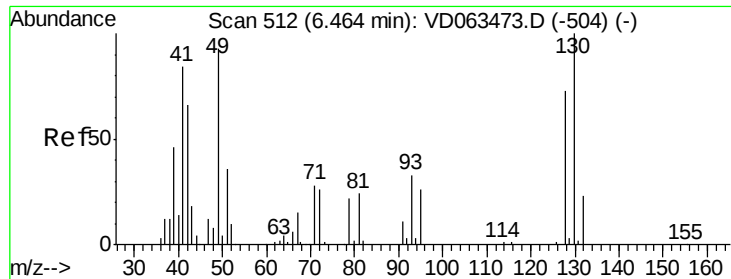
#40
Benzene
Concen: 20.260 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 78 Resp: 594960
Ion Ratio Lower Upper
78 100
77 23.0 20.1 30.1



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

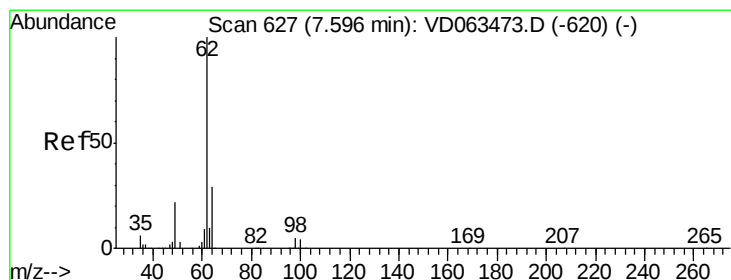
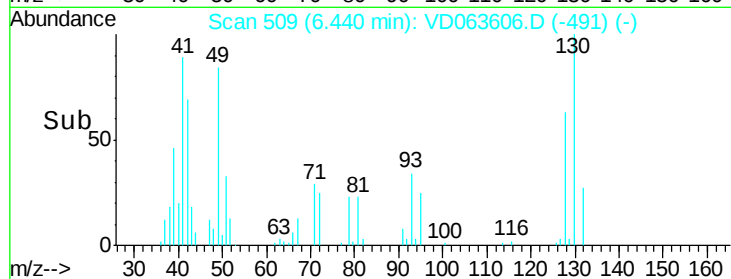
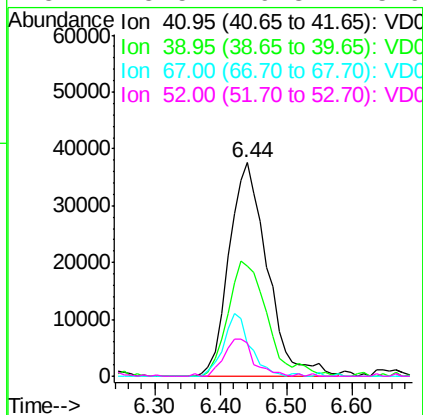
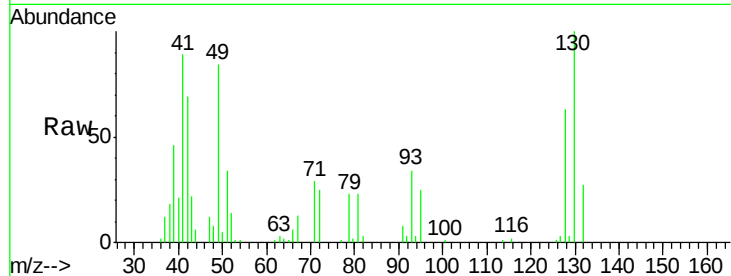




#41
Methacrylonitrile
Concen: 21.667 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

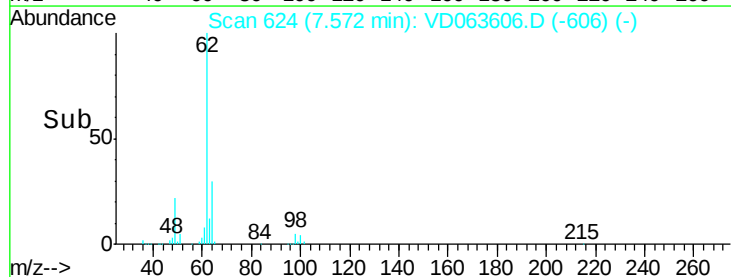
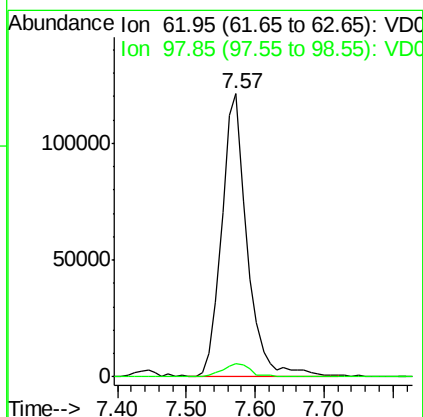
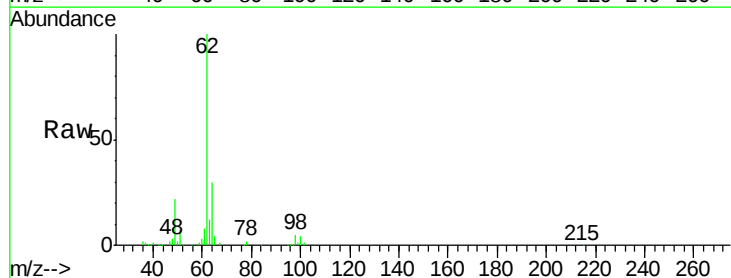
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBS01

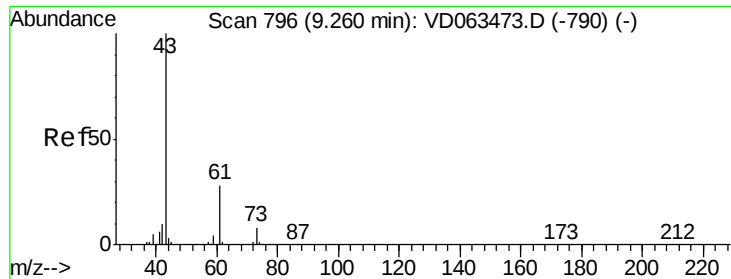
Tot Ion: 41 Resp: 152553
Ion Ratio Lower Upper
41 100
39 51.8 44.6 66.8
67 14.7 14.4 21.6
52 15.5 9.3 13.9#



#42
1,2-Dichloroethane
Concen: 20.797 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 62 Resp: 307101
Ion Ratio Lower Upper
62 100
98 4.8 0.0 10.4





#43

Isopropyl Acetate

Concen: 21.685 ug/l

RT: 9.24 min Scan# 793

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

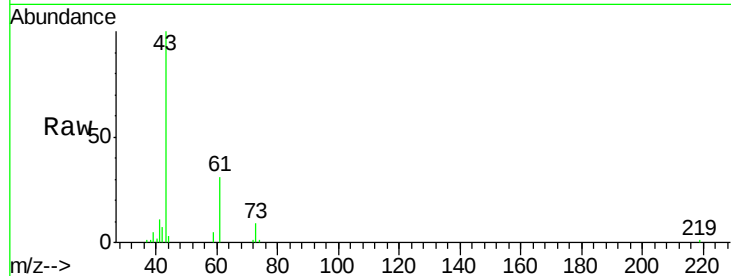
Tot Ion: 43 Resp: 162401

Ion Ratio Lower Upper

43 100

61 30.5 22.2 33.2

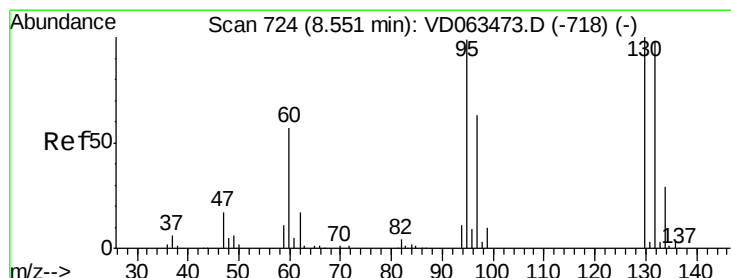
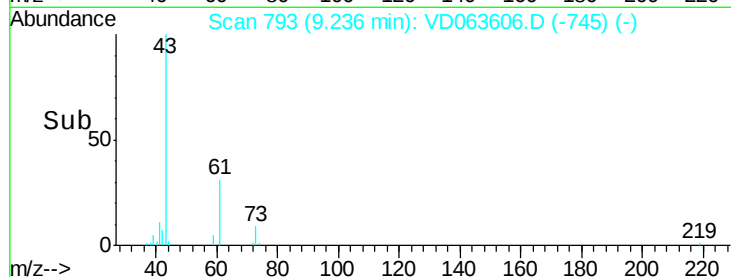
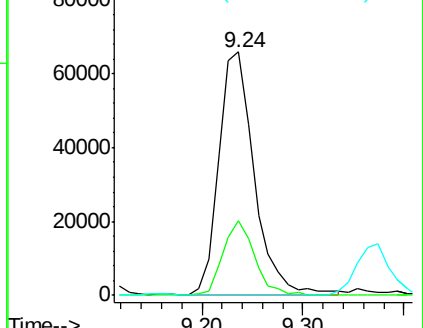
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 20.034 ug/l

RT: 8.53 min Scan# 721

Delta R.T. -0.02 min

Lab File: VD063606.D

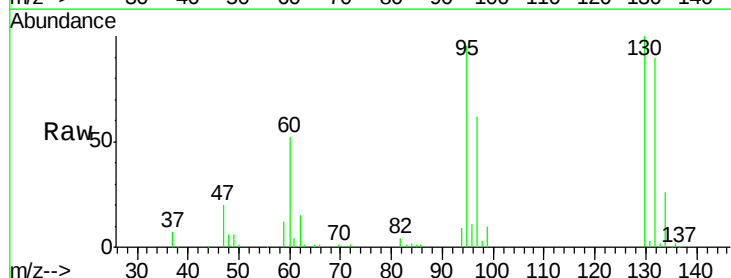
Acq: 15 Aug 2019 15:33

Tgt Ion: 130 Resp: 224873

Ion Ratio Lower Upper

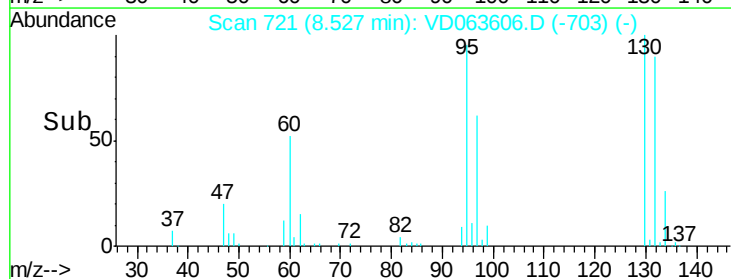
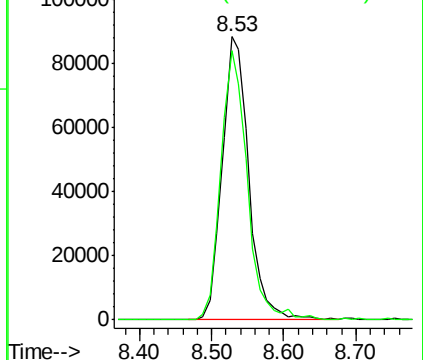
130 100

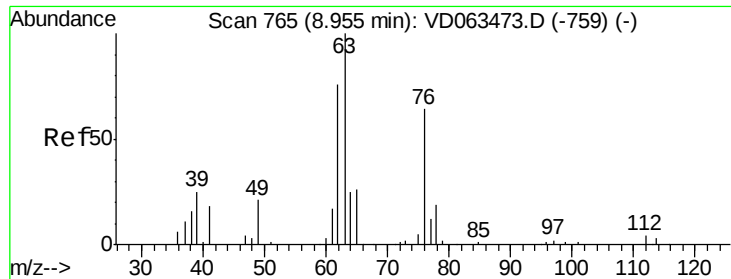
95 95.3 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.292 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

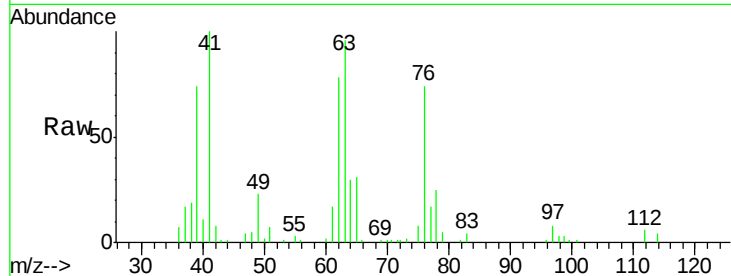
VD0815SBS01

Tot Ion: 63 Resp: 138773

Ion Ratio Lower Upper

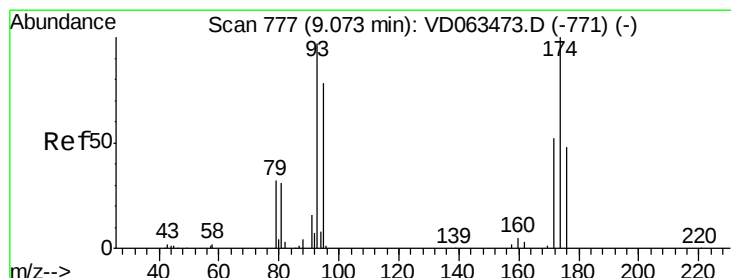
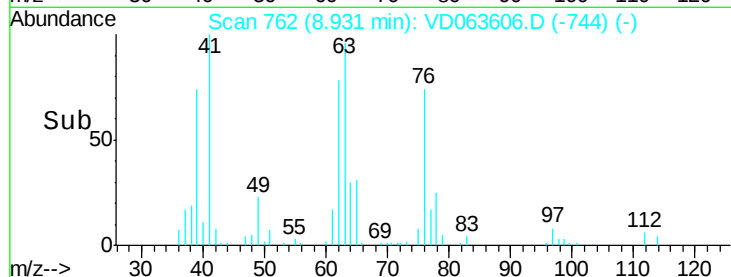
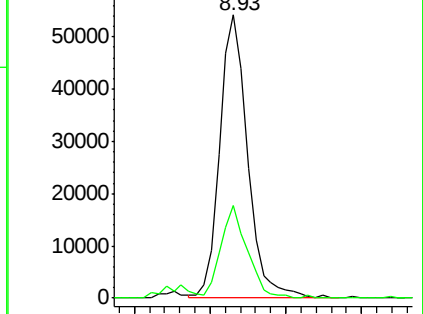
63 100

65 32.7 22.5 33.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 21.758 ug/l

RT: 9.06 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

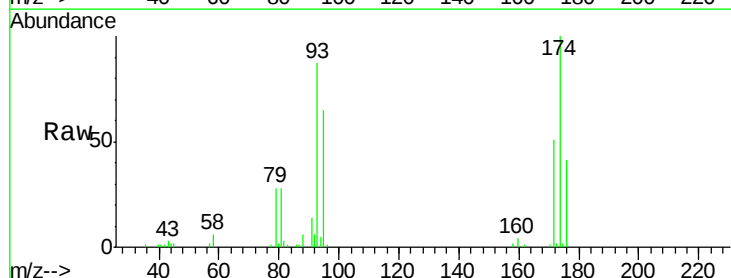
Tgt Ion: 93 Resp: 127070

Ion Ratio Lower Upper

93 100

95 74.2 64.2 96.2

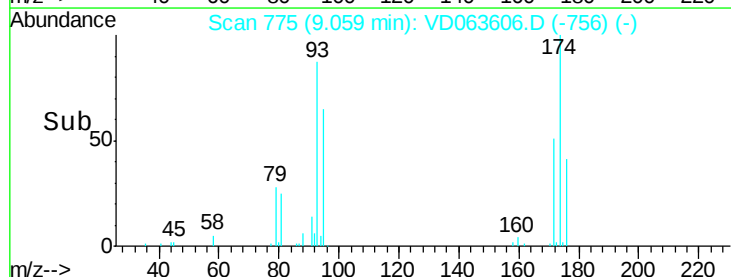
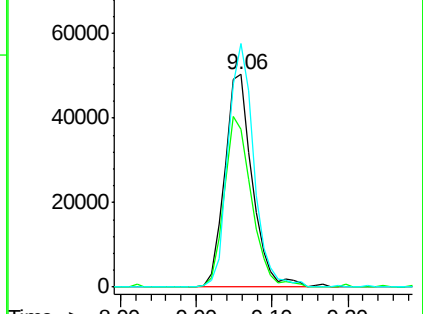
174 114.6 82.1 123.1

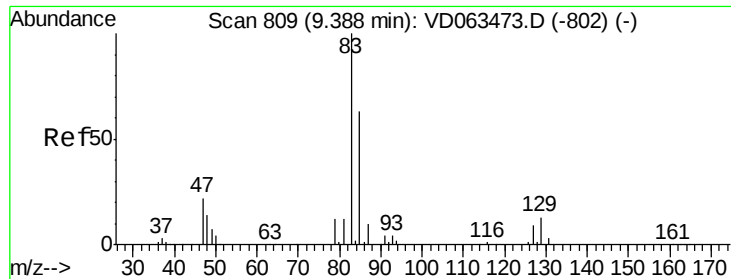


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 20.990 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBSD01

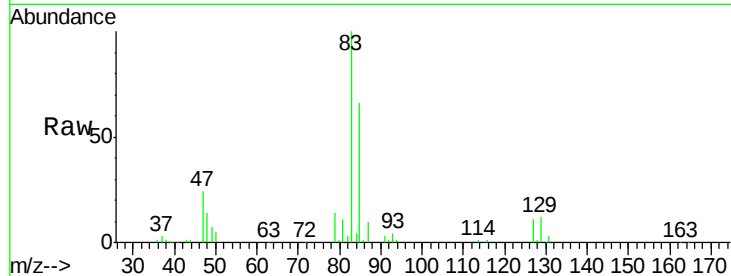
Tot Ion: 83 Resp: 314453

Ion Ratio Lower Upper

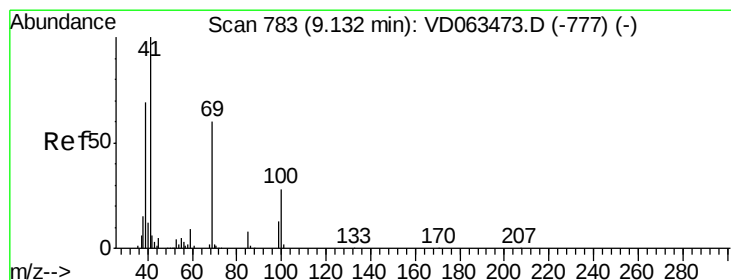
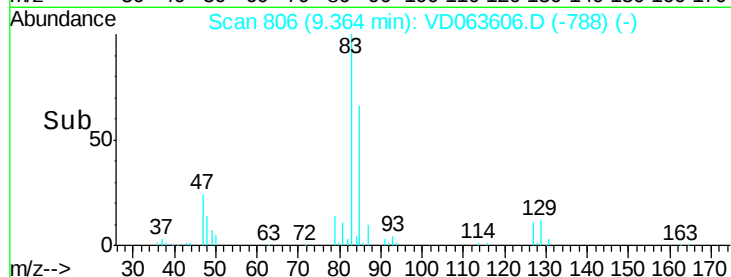
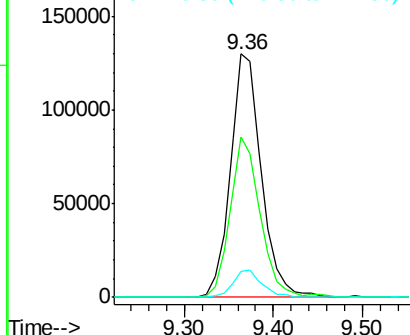
83 100

85 65.7 50.1 75.1

127 10.8 7.6 11.4



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: 21.225 ug/l

RT: 9.11 min Scan# 780

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

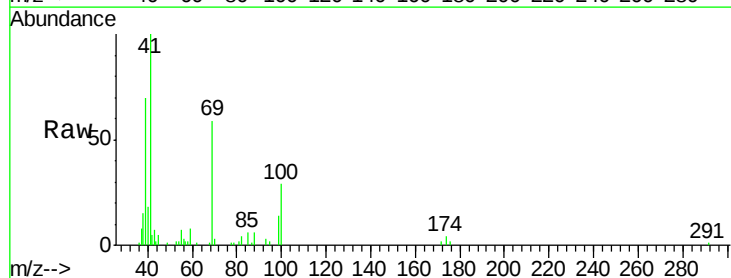
Tgt Ion: 41 Resp: 107801

Ion Ratio Lower Upper

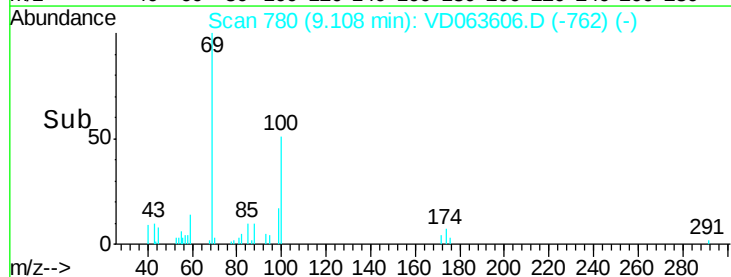
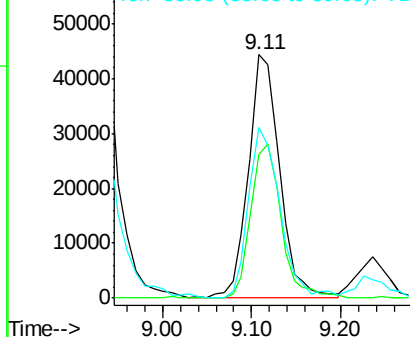
41 100

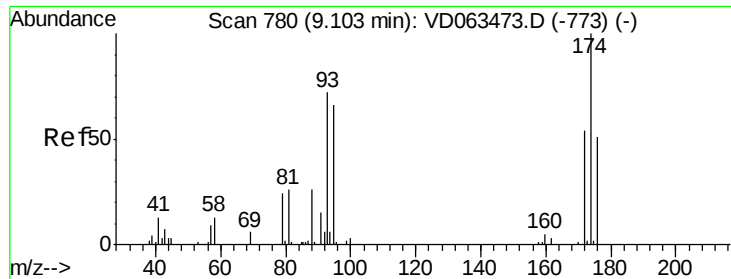
69 58.9 47.6 71.4

39 69.8 55.7 83.5



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

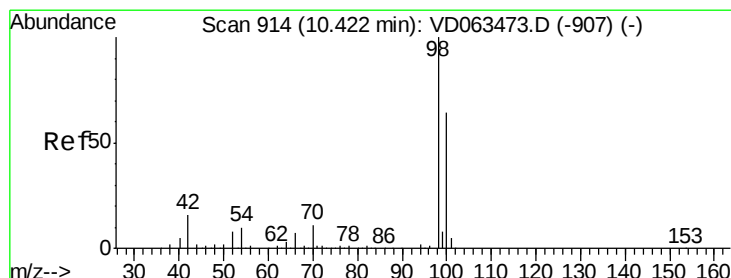
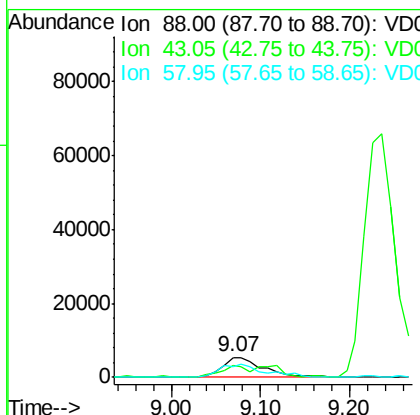
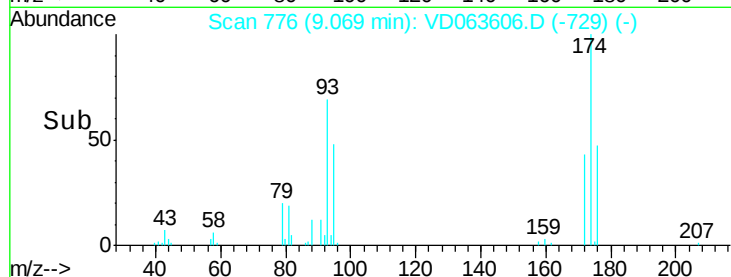
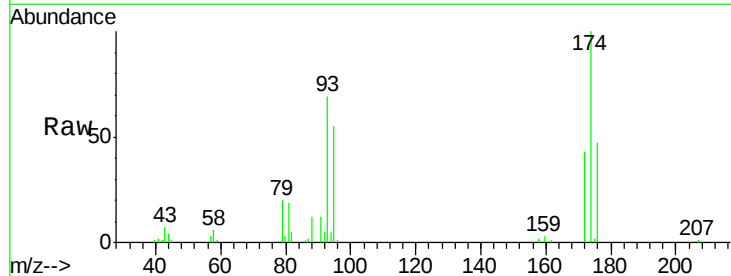




#49
1,4-Dioxane
Concen: 391.449 ug/l
RT: 9.07 min Scan# 776
Delta R.T. -0.03 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

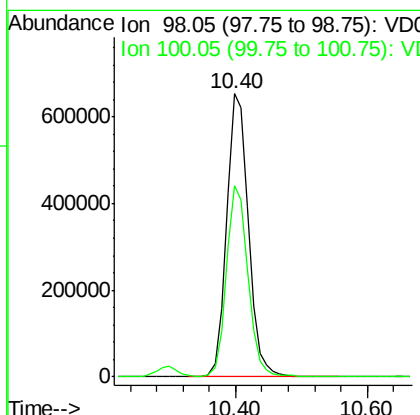
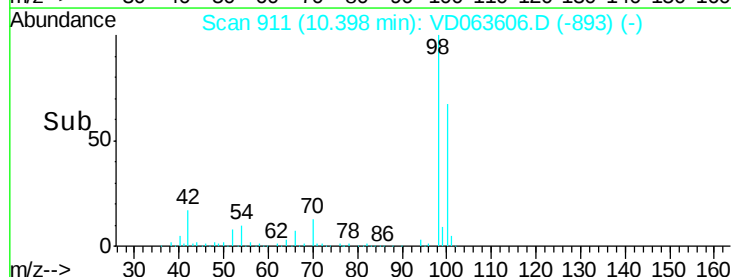
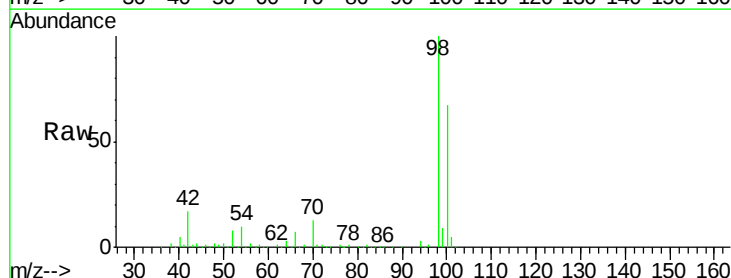
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

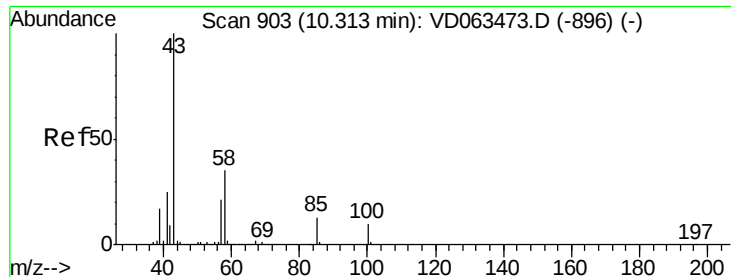
Tot Ion: 88 Resp: 17054
Ion Ratio Lower Upper
88 100
43 57.2 22.9 34.3#
58 52.3 40.1 60.1



#50
Toluene-d8
Concen: 54.344 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 98 Resp: 1518967
Ion Ratio Lower Upper
98 100
100 67.3 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 105.923 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

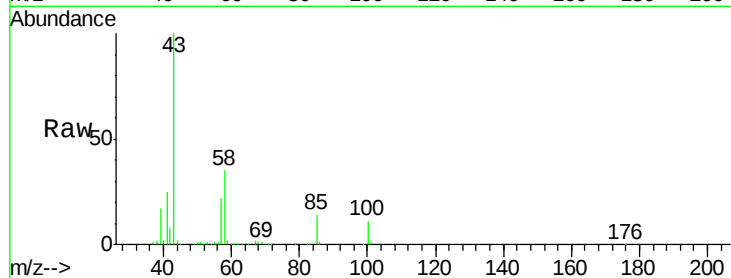
VD0815SBS01

Tot Ion: 43 Resp: 542822

Ion Ratio Lower Upper

43 100

58 35.3 28.0 42.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

250000

200000

150000

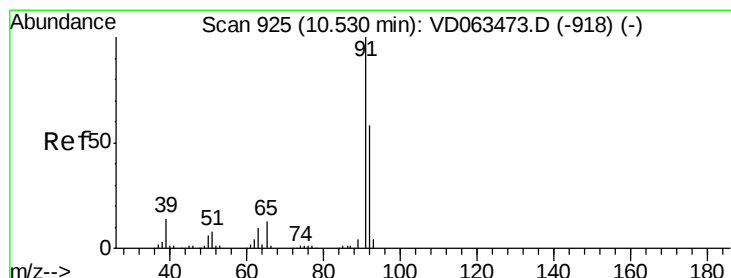
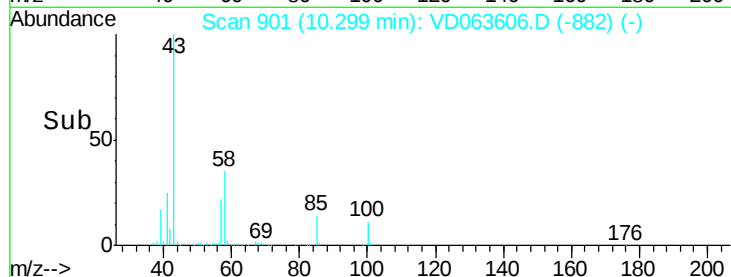
100000

50000

0

10.20 10.30 10.40

Time-->



#52

Toluene

Concen: 21.391 ug/l

RT: 10.50 min Scan# 921

Delta R.T. -0.03 min

Lab File: VD063606.D

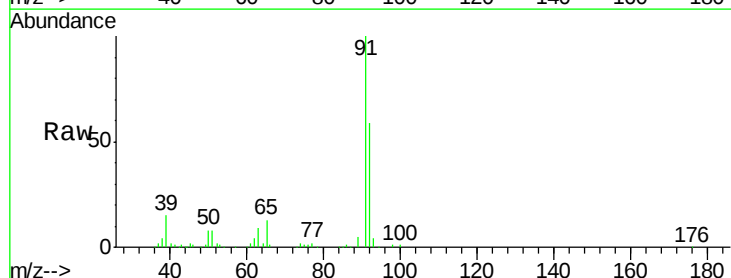
Acq: 15 Aug 2019 15:33

Tgt Ion: 92 Resp: 404619

Ion Ratio Lower Upper

92 100

91 168.5 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.50

300000

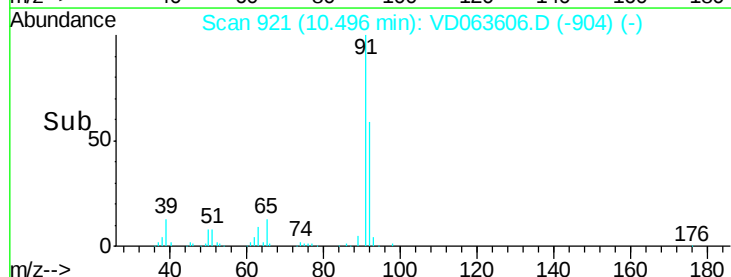
200000

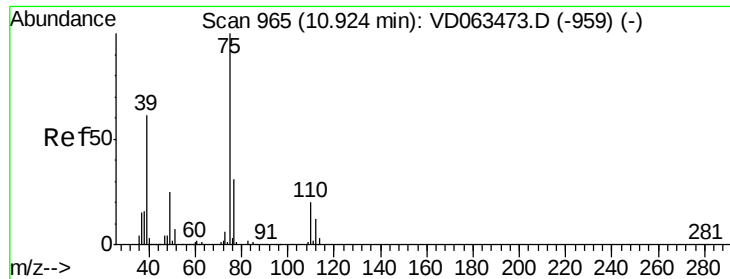
100000

0

10.40 10.50 10.60

Time-->





#53

t-1,3-Dichloropropene

Concen: 21.366 ug/l

RT: 10.90 min Scan# 962

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

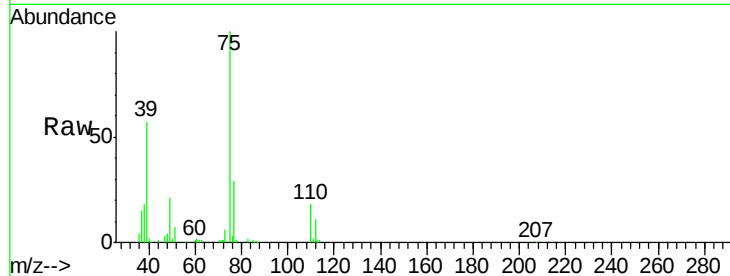
VD0815SBSD01

Tot Ion: 75 Resp: 261212

Ion Ratio Lower Upper

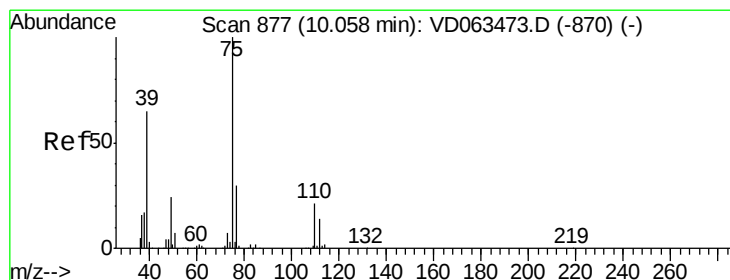
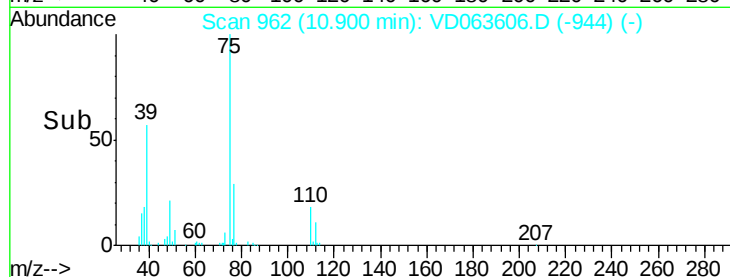
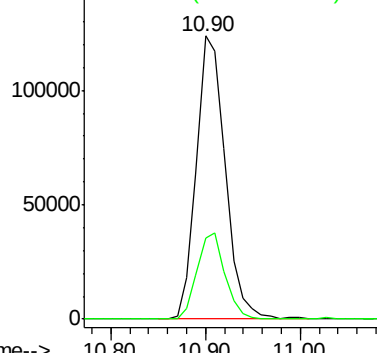
75 100

77 28.5 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 20.262 ug/l

RT: 10.03 min Scan# 874

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

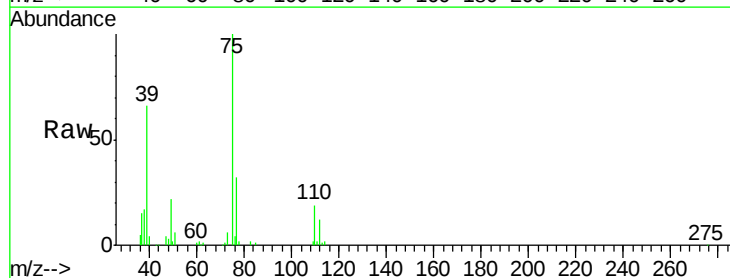
Tgt Ion: 75 Resp: 279316

Ion Ratio Lower Upper

75 100

77 32.3 23.7 35.5

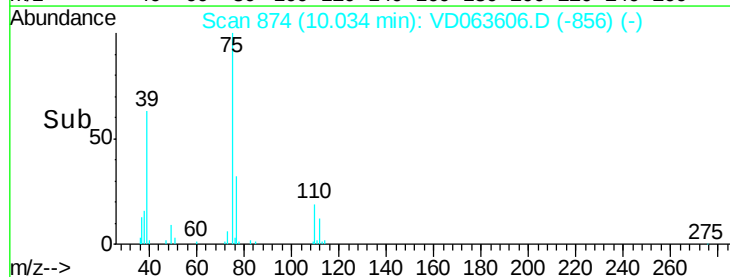
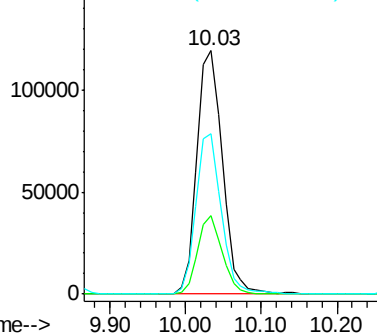
39 66.1 52.2 78.4

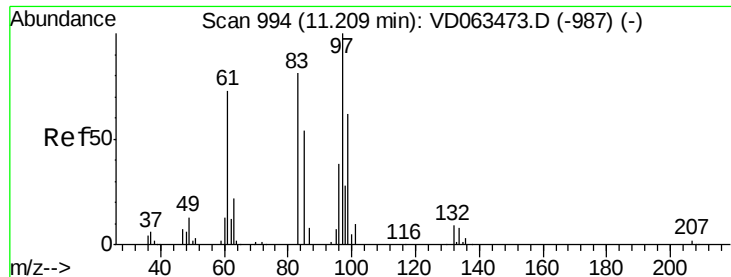


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 20.728 ug/l

RT: 11.19 min Scan# 991

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBSD01

Tot Ion: 97 Resp: 132437

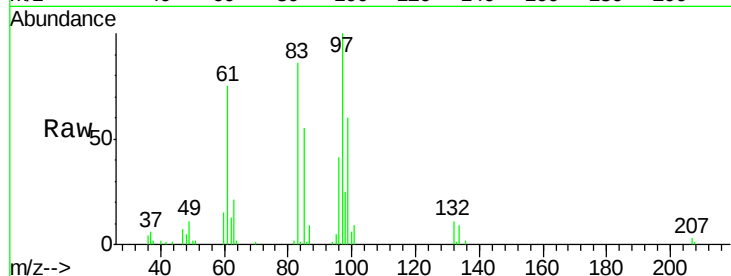
Ion Ratio Lower Upper

97 100

83 85.6 64.7 97.1

85 55.0 42.9 64.3

99 60.3 49.7 74.5

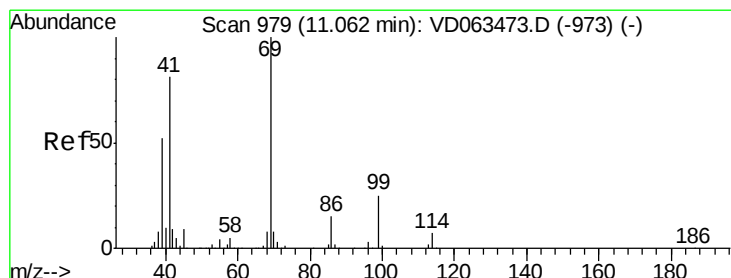
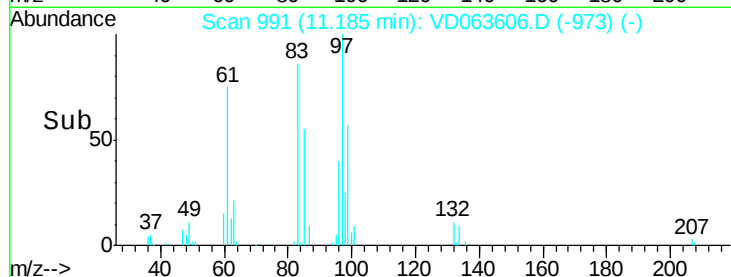
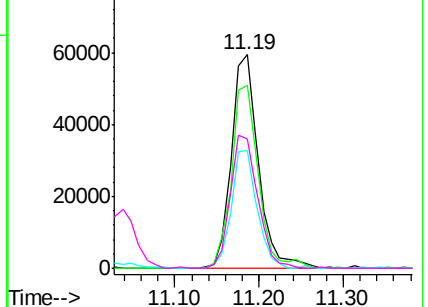


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 20.887 ug/l

RT: 11.04 min Scan# 976

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

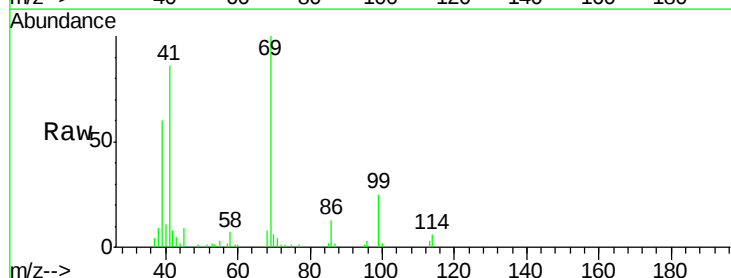
Tgt Ion: 69 Resp: 144854

Ion Ratio Lower Upper

69 100

41 86.0 64.8 97.2

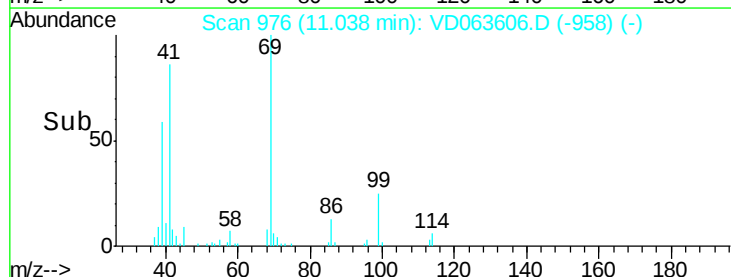
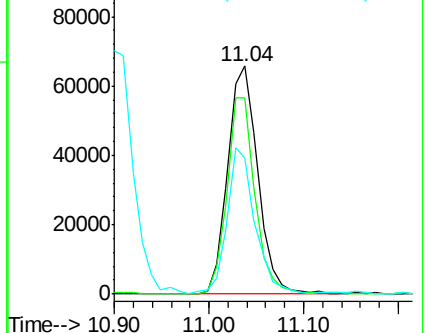
39 59.6 42.4 63.6

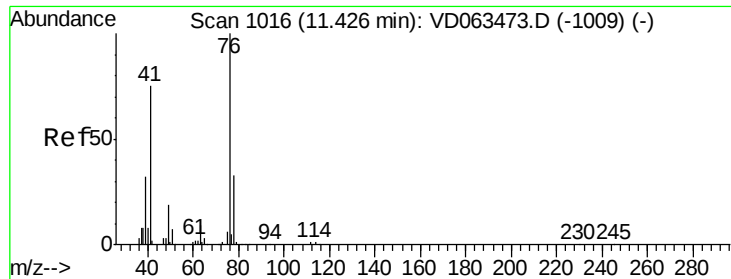


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

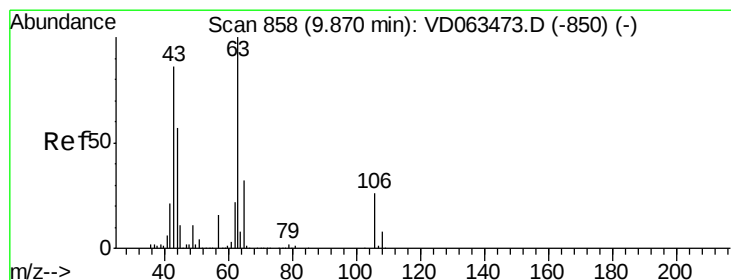
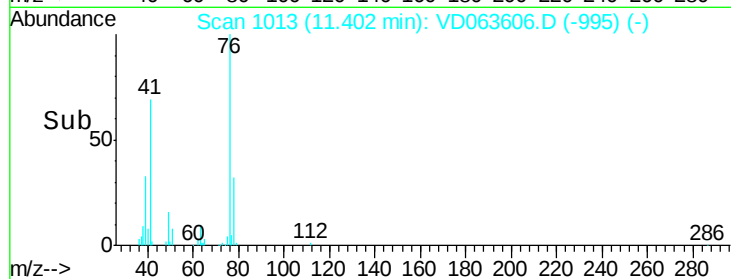
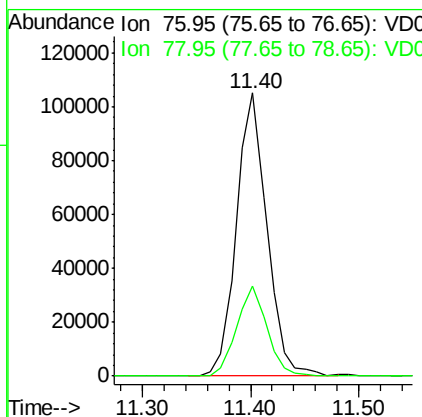
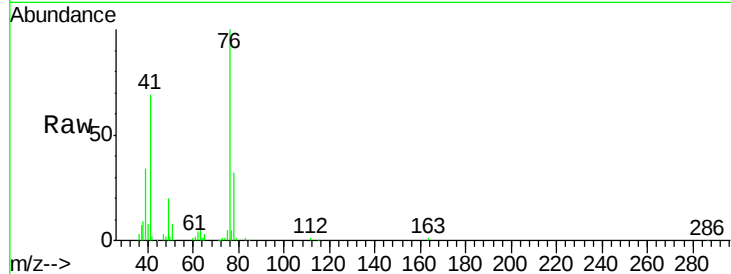




#57
 1,3-Dichloropropane
 Concen: 21.384 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.02 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

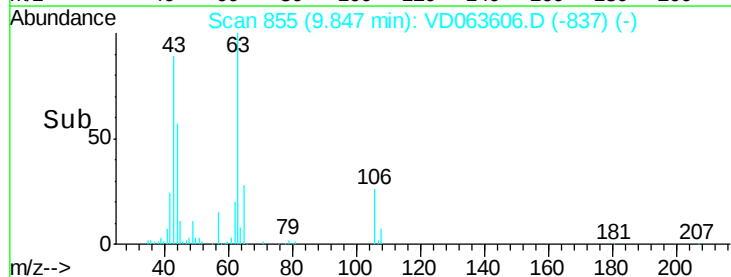
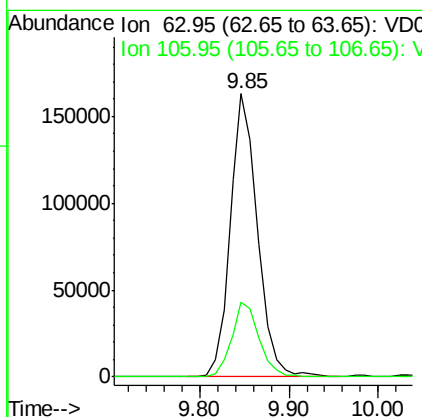
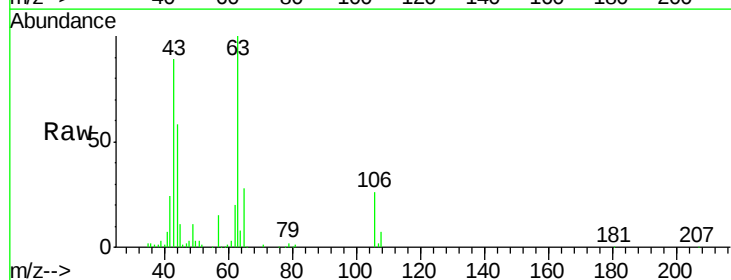
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0815SBSD01

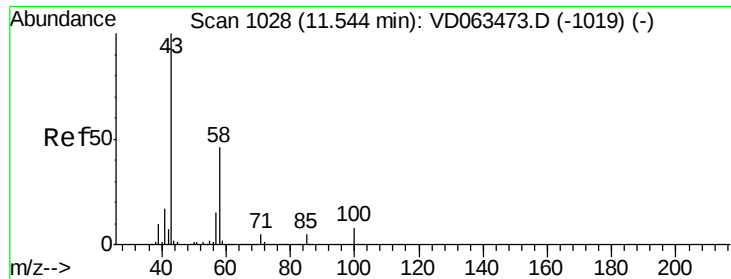
Tot Ion: 76 Resp: 206530
 Ion Ratio Lower Upper
 76 100
 78 31.8 26.3 39.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 95.270 ug/l
 RT: 9.85 min Scan# 855
 Delta R.T. -0.02 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

Tgt Ion: 63 Resp: 348805
 Ion Ratio Lower Upper
 63 100
 106 26.4 20.8 31.2

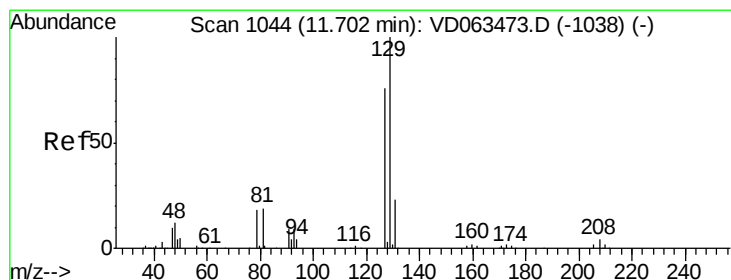
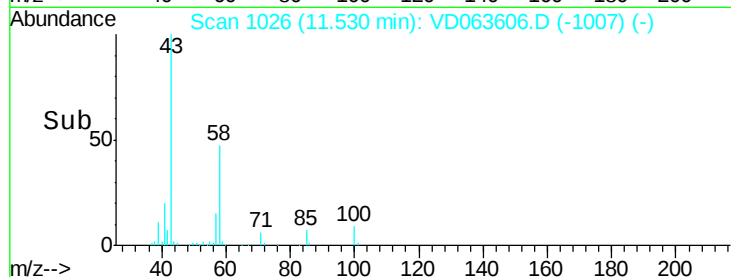
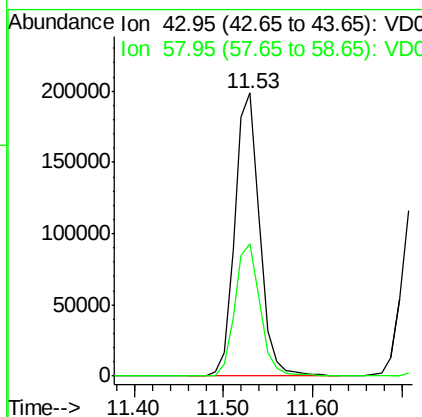
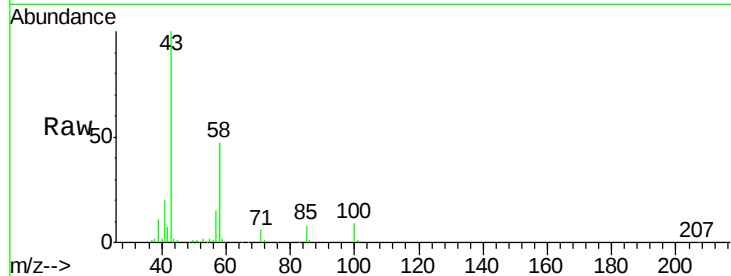




#59
2-Hexanone
Concen: 104.167 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

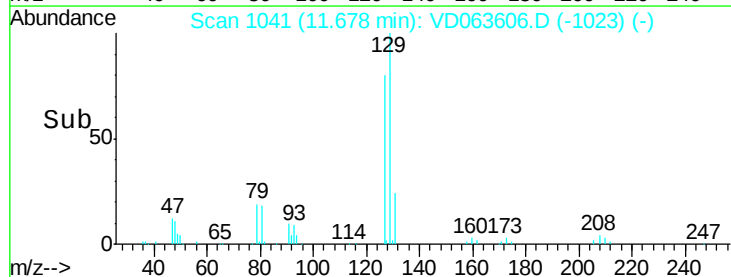
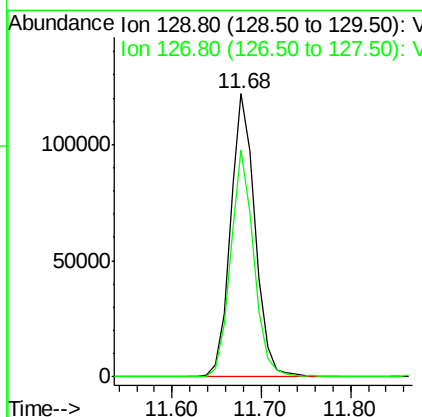
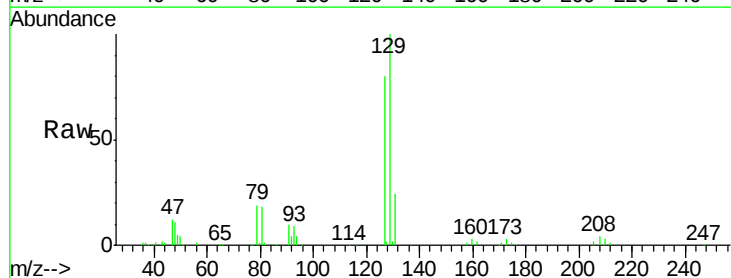
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

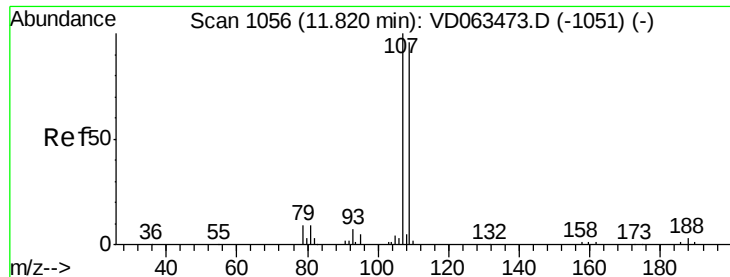
Tot Ion: 43 Resp: 388423
Ion Ratio Lower Upper
43 100
58 46.9 23.1 69.2



#60
Dibromochloromethane
Concen: 20.318 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 129 Resp: 236226
Ion Ratio Lower Upper
129 100
127 80.1 37.8 113.4





#61

1,2-Dibromoethane

Concen: 21.215 ug/l

RT: 11.80 min Scan# 1053

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

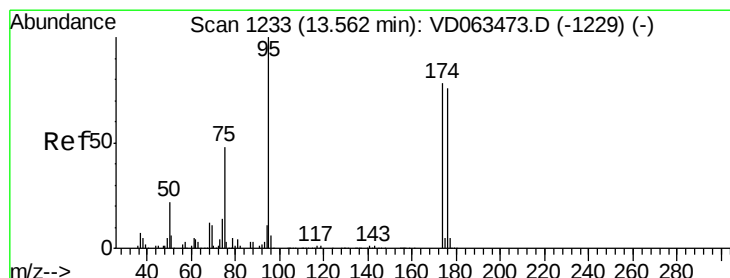
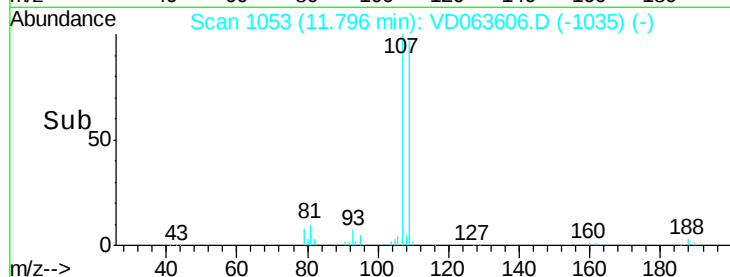
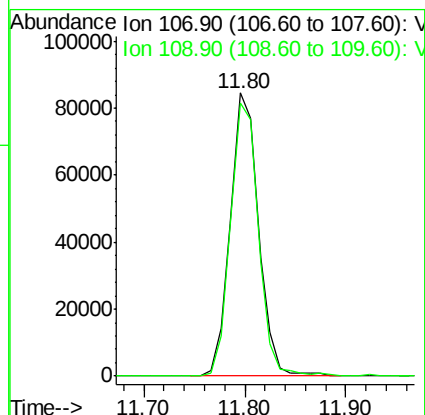
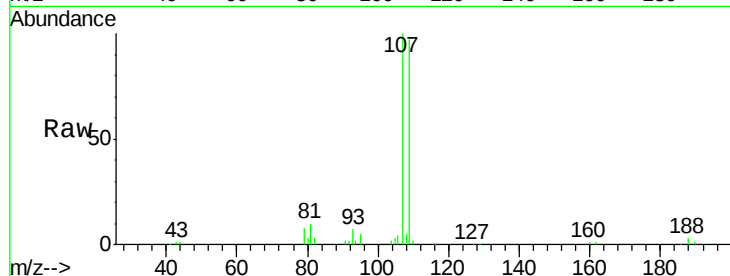
VD0815SBSD01

Tot Ion: 107 Resp: 164097

Ion Ratio Lower Upper

107 100

109 96.6 76.8 115.2



#62

4-Bromofluorobenzene

Concen: 47.722 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

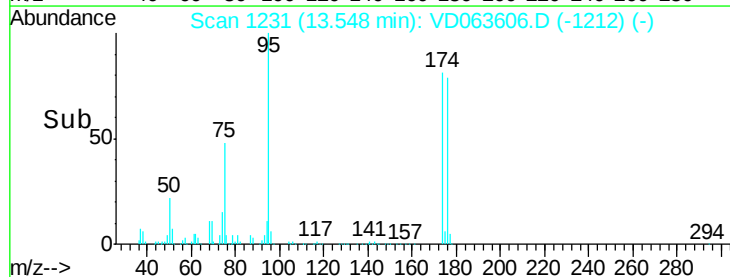
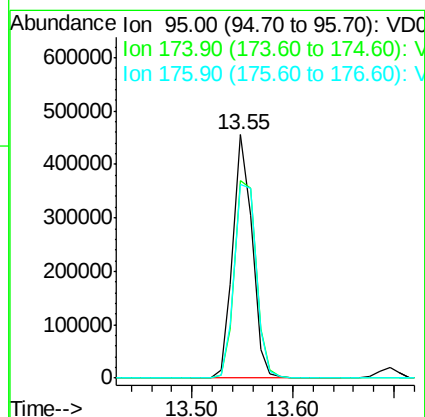
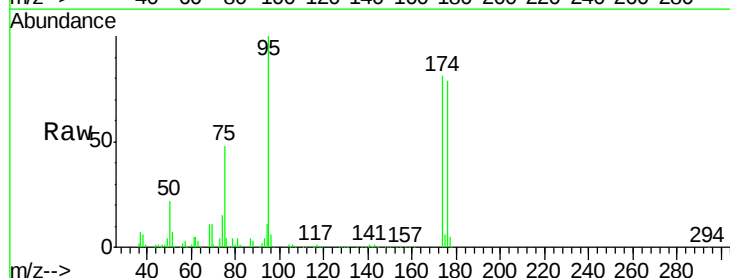
Tgt Ion: 95 Resp: 604577

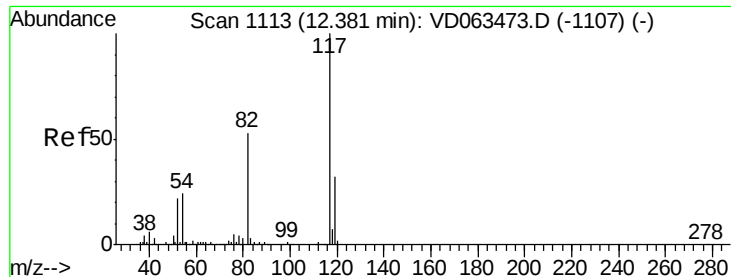
Ion Ratio Lower Upper

95 100

174 81.0 0.0 155.4

176 79.5 0.0 152.4

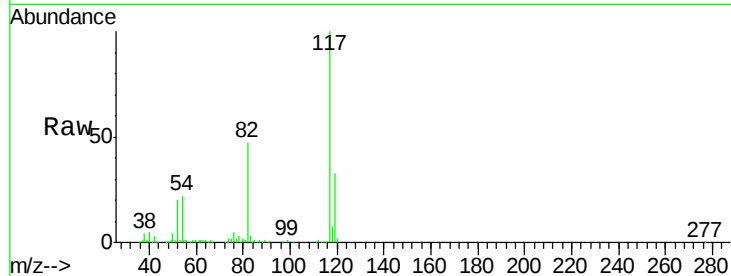




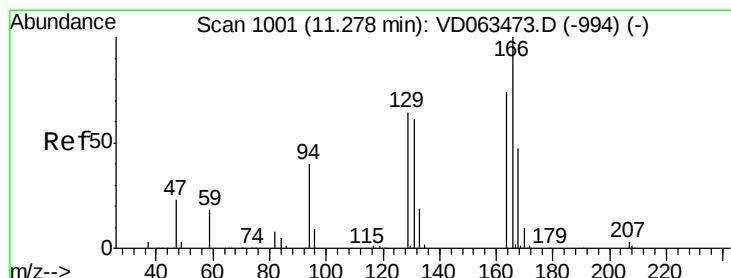
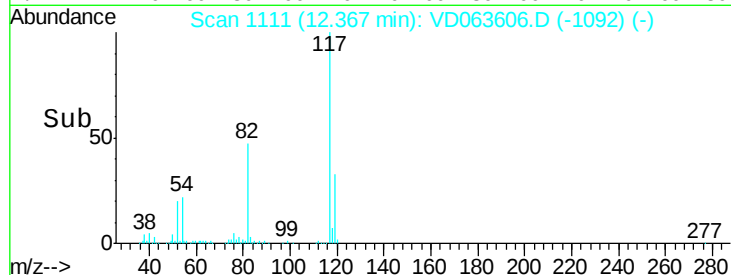
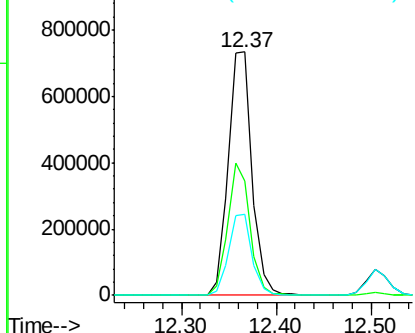
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Instrument :
MSVOA_D
ClientSampleId :
VD0815SBS01

Tot Ion:117 Resp: 1282531
Ion Ratio Lower Upper
117 100
82 47.0 42.0 63.0
119 33.1 25.4 38.0

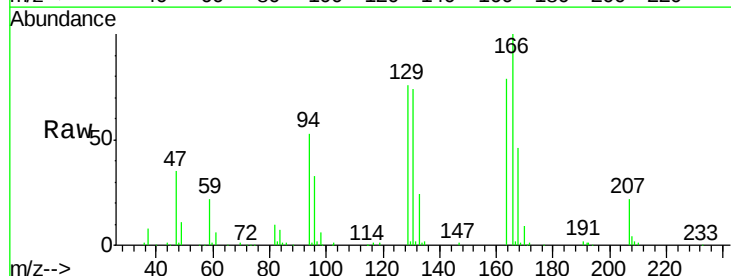


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

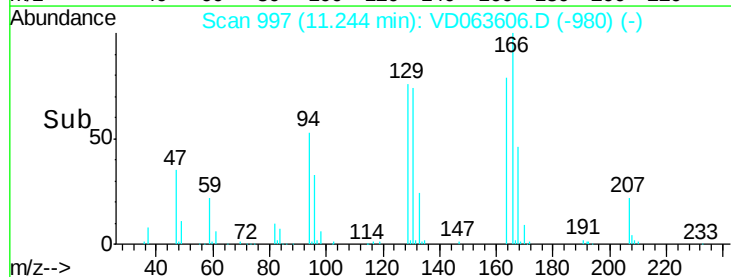
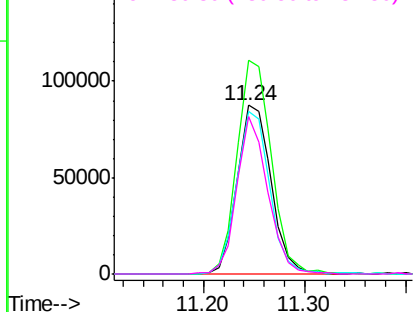


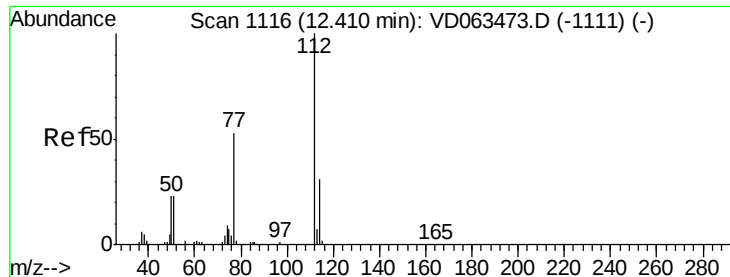
#64
Tetrachloroethene
Concen: 20.647 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.03 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion:164 Resp: 204420
Ion Ratio Lower Upper
164 100
166 126.6 108.6 163.0
129 96.4 69.0 103.6
131 93.5 66.6 99.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

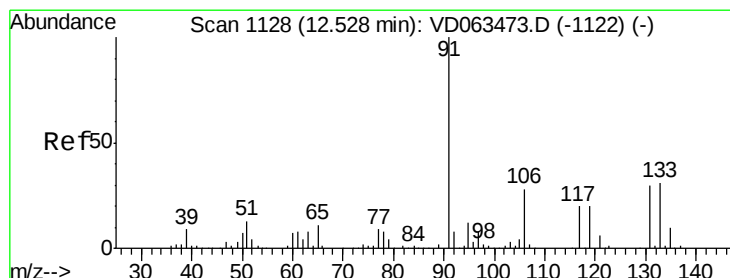
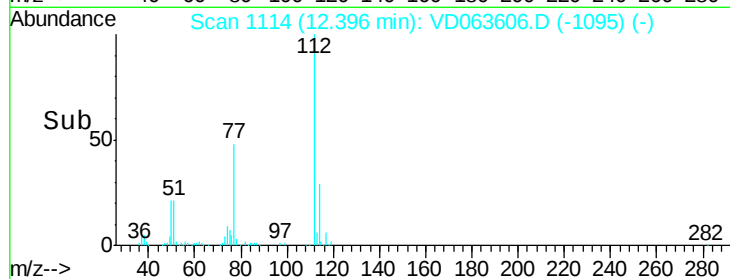
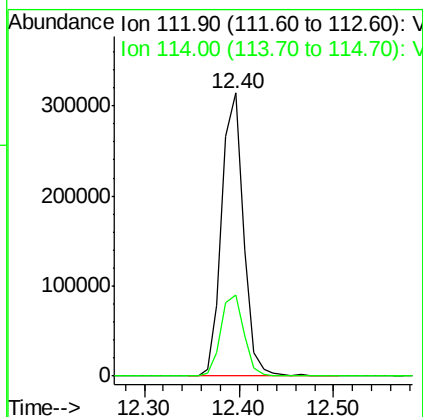
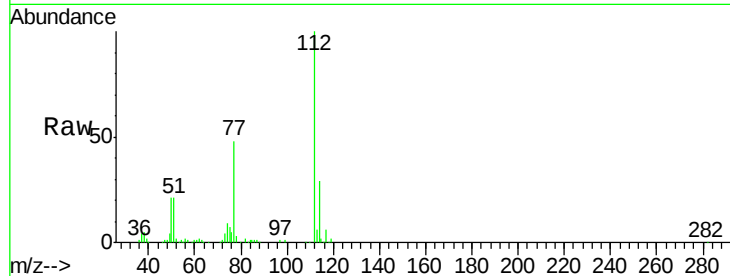




#65
Chlorobenzene
Concen: 20.884 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

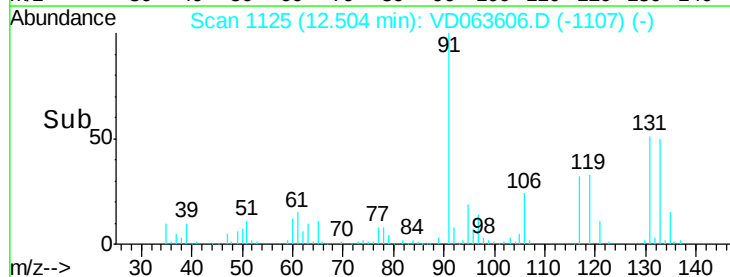
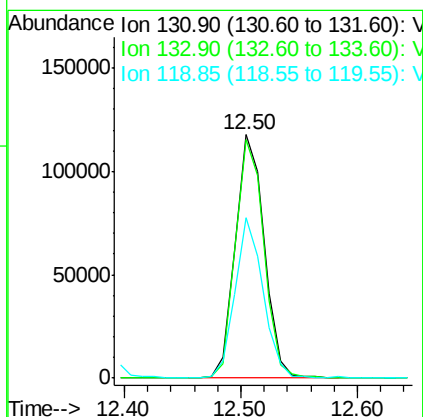
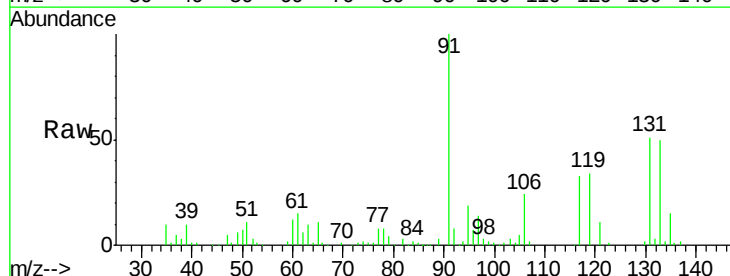
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBS01

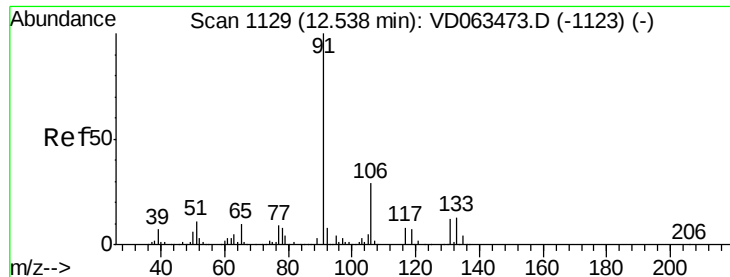
Tot Ion:112 Resp: 502008
Ion Ratio Lower Upper
112 100
114 28.7 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 19.167 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion:131 Resp: 202762
Ion Ratio Lower Upper
131 100
133 98.0 51.1 153.3
119 66.1 33.1 99.3

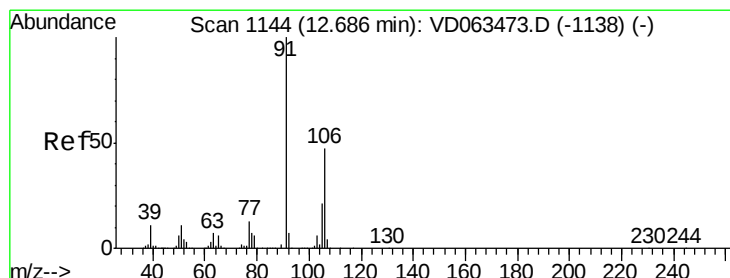
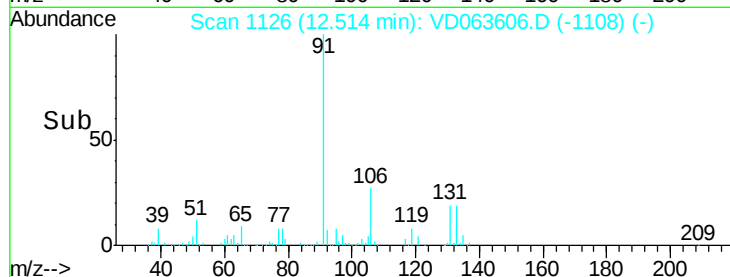
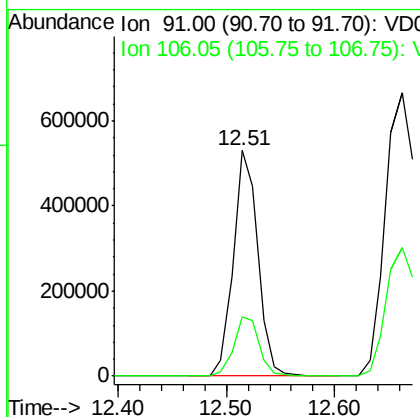
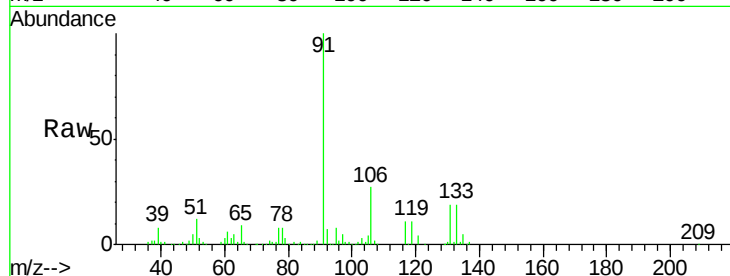




#67
Ethyl Benzene
Concen: 19.977 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

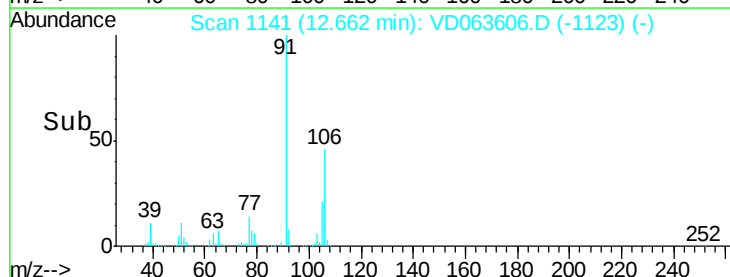
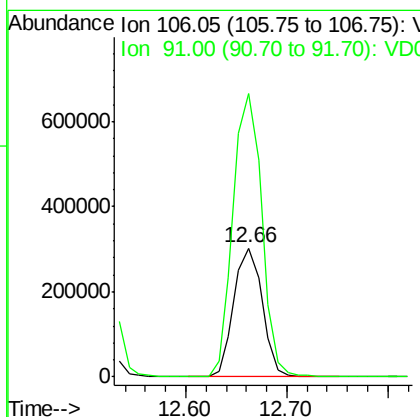
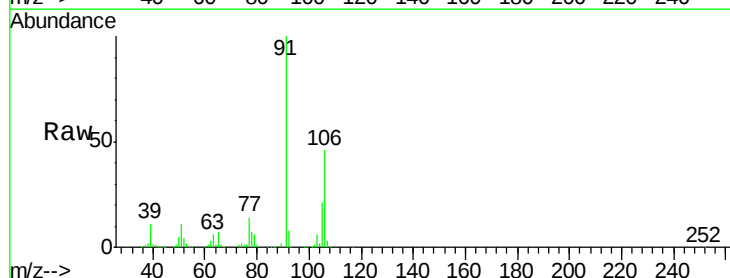
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBS01

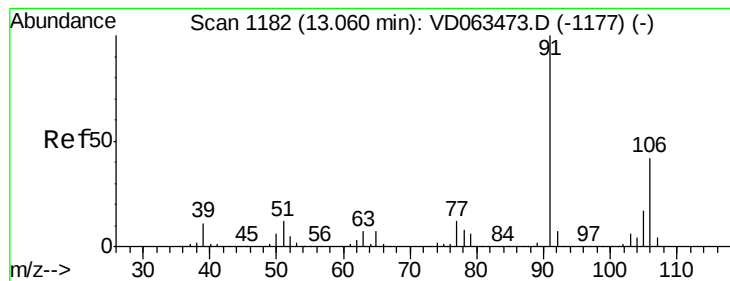
Tot Ion: 91 Resp: 834950
Ion Ratio Lower Upper
91 100
106 26.6 23.1 34.7



#68
m/p-Xylenes
Concen: 40.618 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 106 Resp: 596439
Ion Ratio Lower Upper
106 100
91 219.3 171.8 257.8





#69

o-Xylene

Concen: 19.729 ug/l

RT: 13.05 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

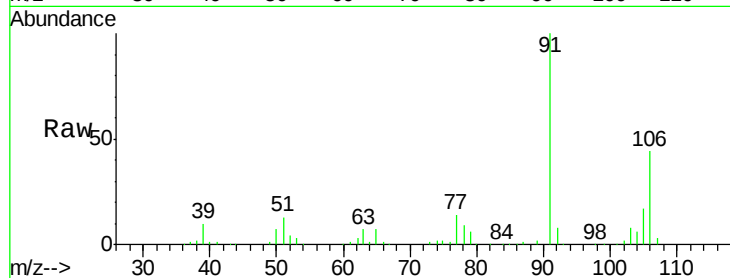
VD0815SBS01

Tot Ion:106 Resp: 278834

Ion Ratio Lower Upper

106 100

91 224.8 118.1 354.2

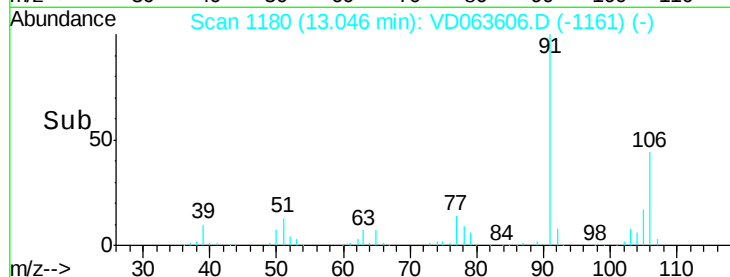


Abundance Ion 106.05 (105.75 to 106.75): V

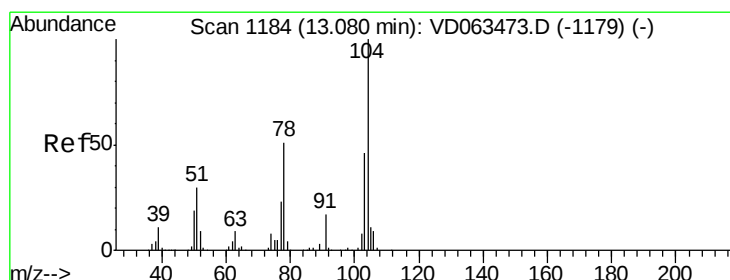
Ion 91.00 (90.70 to 91.70): V

13.05

Time-->



Time-->



#70

Styrene

Concen: 19.856 ug/l

RT: 13.07 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

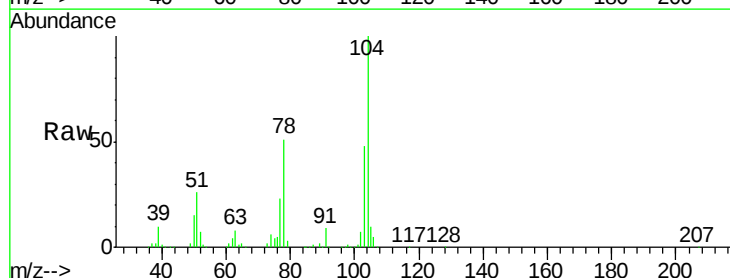
Tgt Ion:104 Resp: 499173

Ion Ratio Lower Upper

104 100

78 50.7 40.8 61.2

103 47.5 36.4 54.6



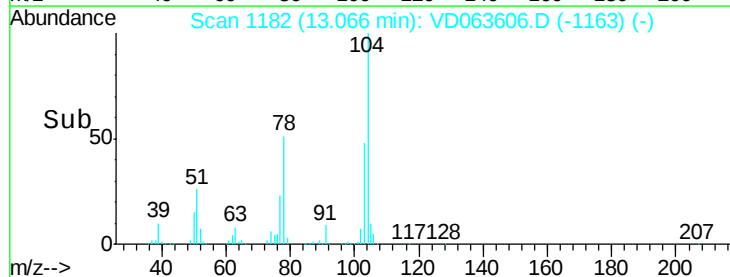
Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

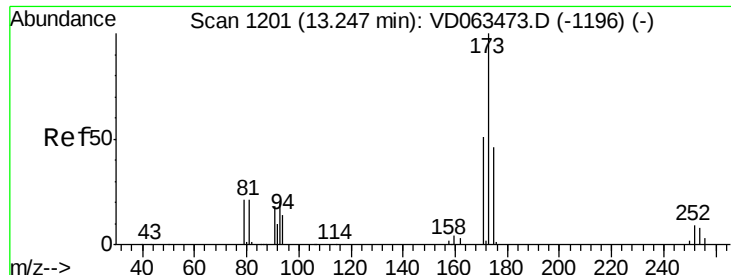
Ion 103.05 (102.75 to 103.75): V

13.07

Time-->



Time-->



#71

Bromoform

Concen: 20.450 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

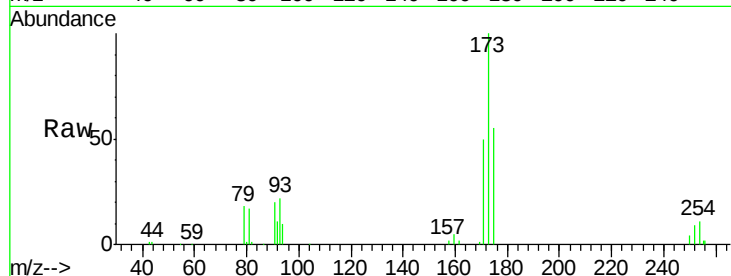
Tot Ion:173 Resp: 148338

Ion Ratio Lower Upper

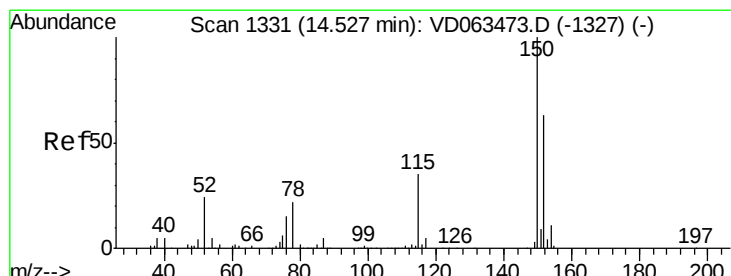
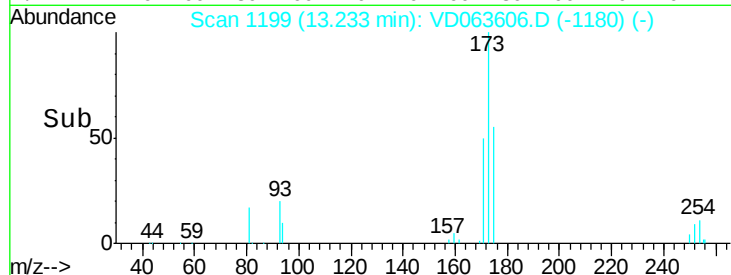
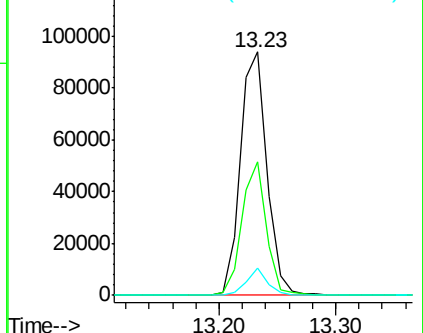
173 100

175 54.7 22.8 68.3

254 11.2 6.6 9.8#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

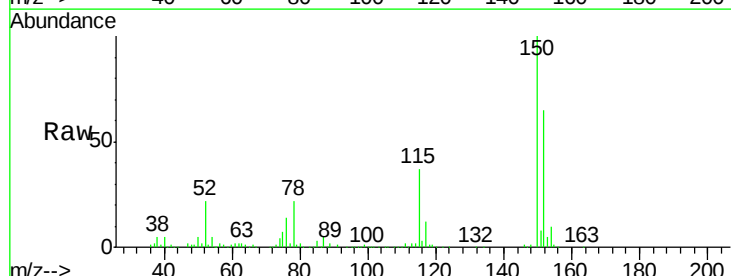
Tgt Ion:152 Resp: 624890

Ion Ratio Lower Upper

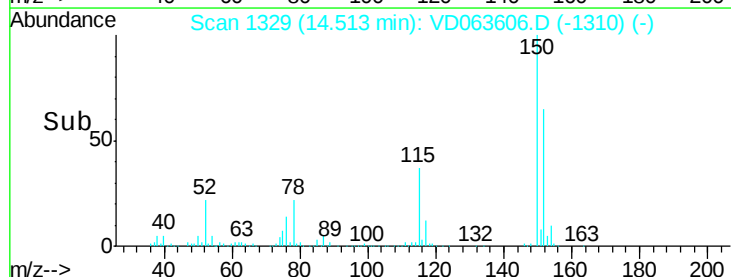
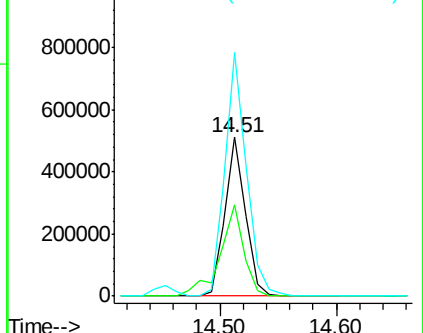
152 100

115 57.2 30.9 92.7

150 153.4 0.0 318.6



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





#73

Isopropylbenzene

Concen: 21.448 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

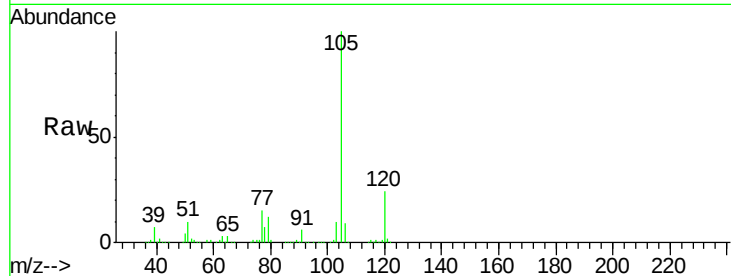
VD0815SBS01

Tot Ion: 105 Resp: 852484

Ion Ratio Lower Upper

105 100

120 23.6 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

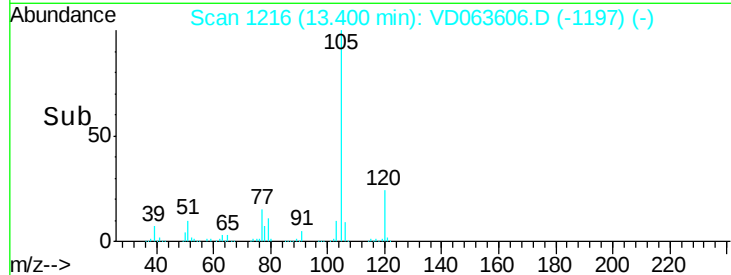
600000

400000

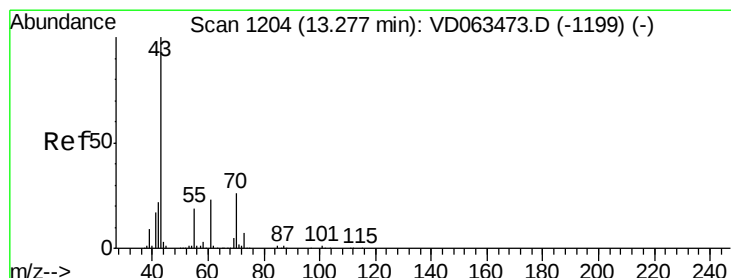
200000

0

13.30 13.40 13.50



Time-->



#74

N-ethyl acetate

Concen: 21.650 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Tgt Ion: 43 Resp: 216016

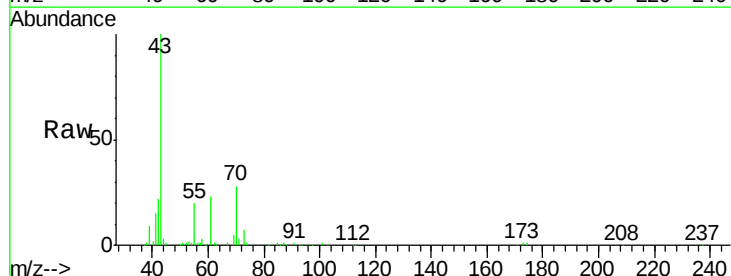
Ion Ratio Lower Upper

43 100

70 28.2 21.1 31.7

55 20.2 15.4 23.0

61 23.5 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

250000

200000

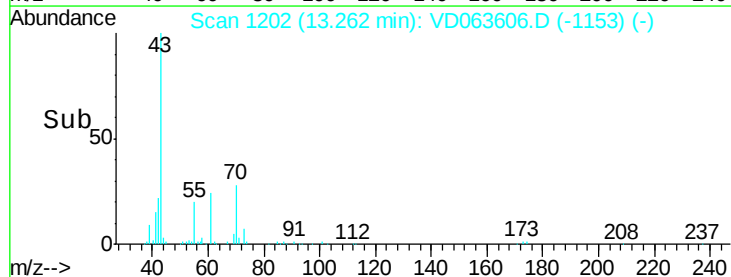
150000

100000

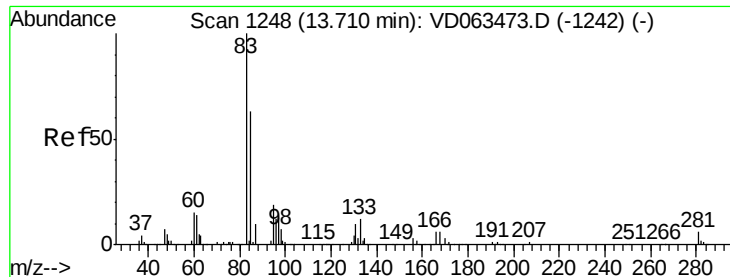
50000

0

13.20 13.30



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 23.837 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

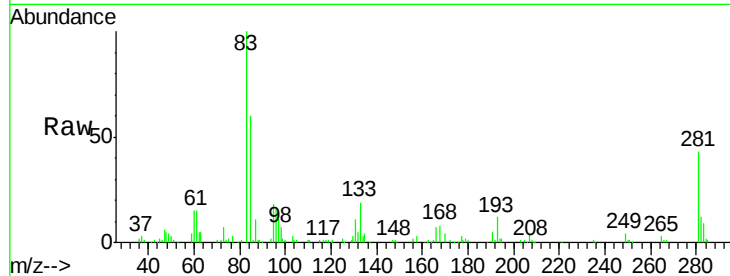
Tot Ion: 83 Resp: 157257

Ion Ratio Lower Upper

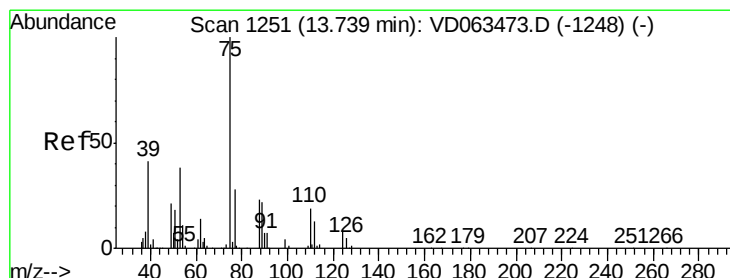
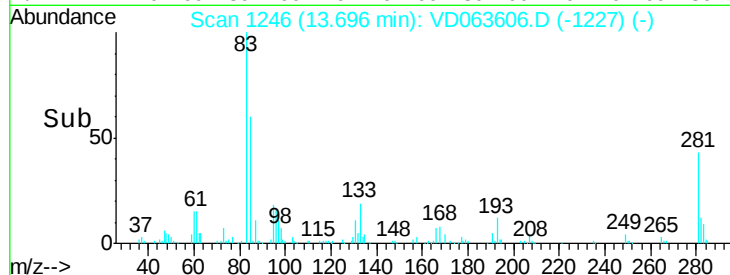
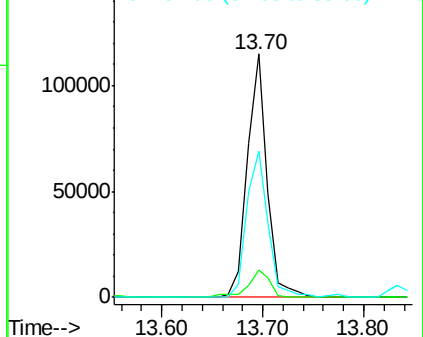
83 100

131 11.2 5.3 15.8

85 60.3 31.4 94.3



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 23.552 ug/l

RT: 13.73 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD063606.D

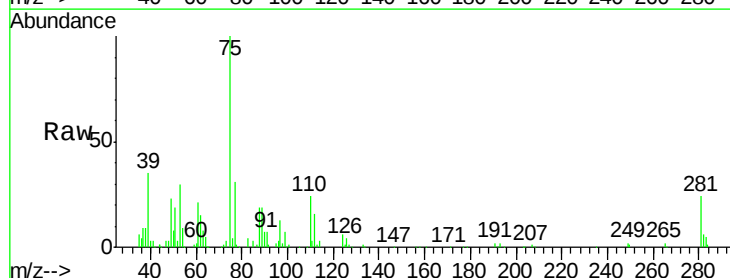
Acq: 15 Aug 2019 15:33

Tgt Ion: 75 Resp: 168907

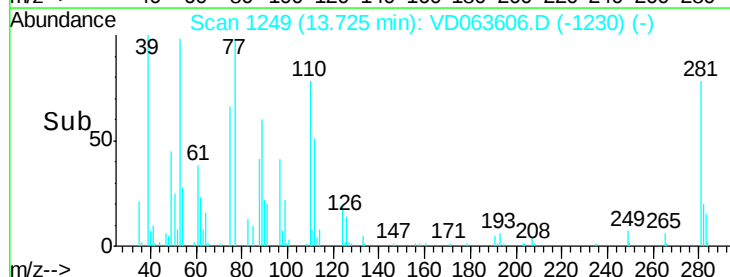
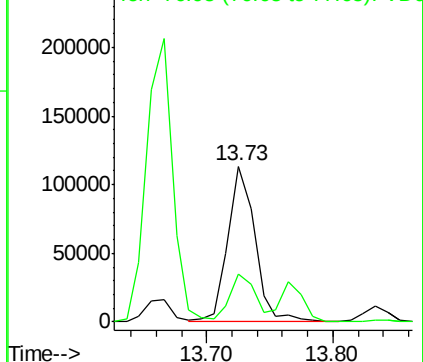
Ion Ratio Lower Upper

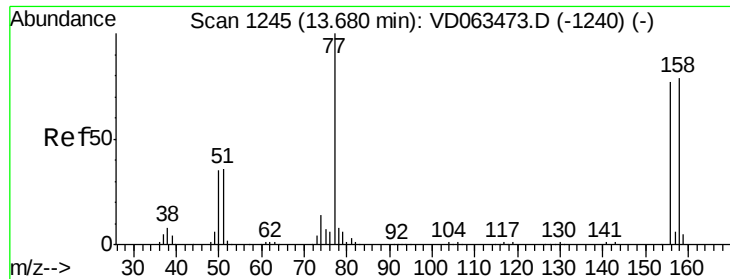
75 100

77 30.8 15.1 45.3



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.151 ug/l

RT: 13.67 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

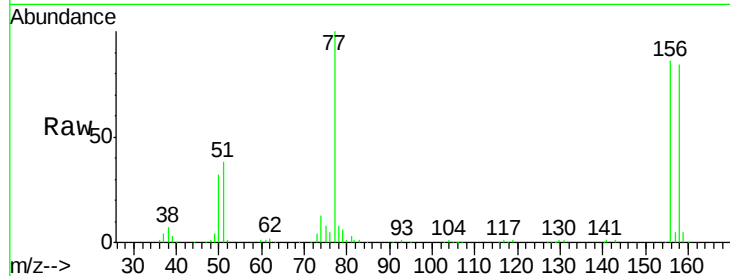
Tot Ion:156 Resp: 240621

Ion Ratio Lower Upper

156 100

77 116.7 64.6 193.8

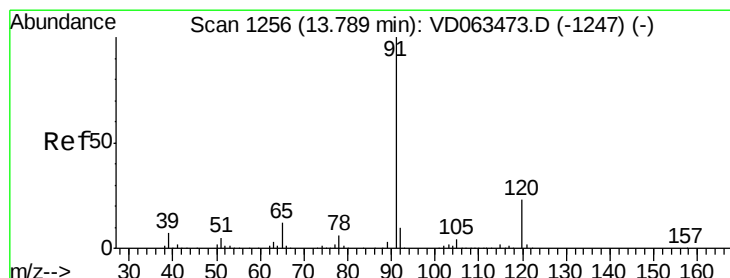
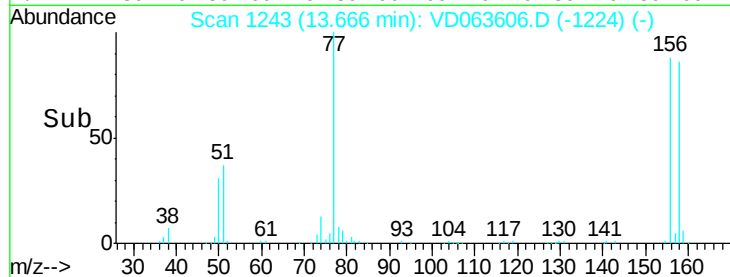
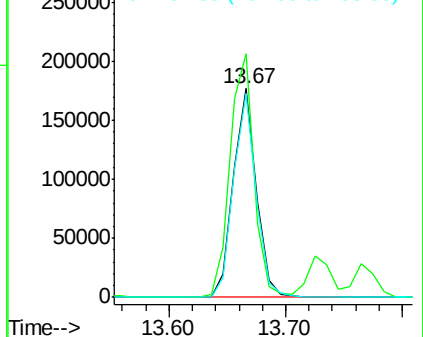
158 98.0 50.9 152.7



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: 20.509 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD063606.D

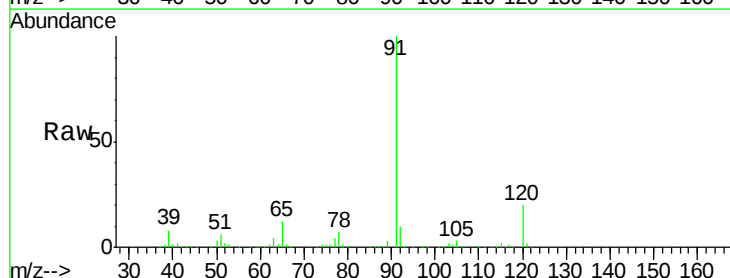
Acq: 15 Aug 2019 15:33

Tgt Ion: 91 Resp: 953771

Ion Ratio Lower Upper

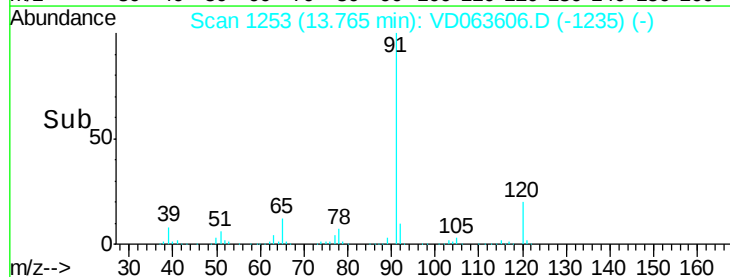
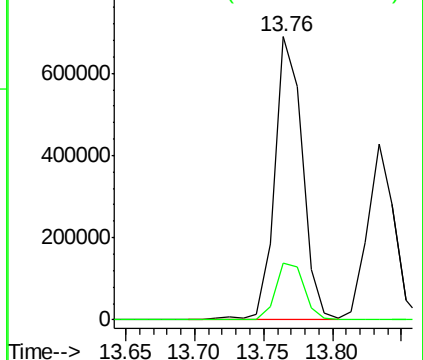
91 100

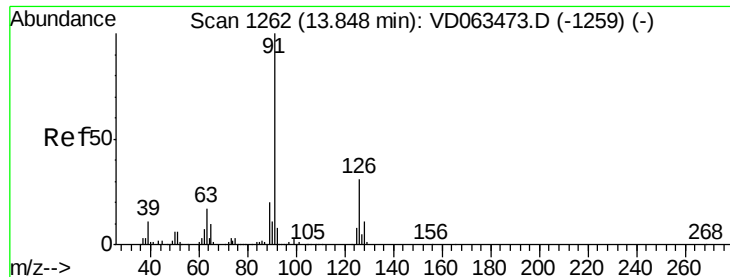
120 19.9 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.577 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

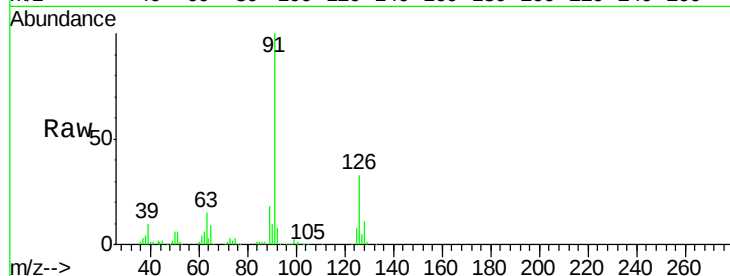
VD0815SBS01

Tot Ion: 91 Resp: 578562

Ion Ratio Lower Upper

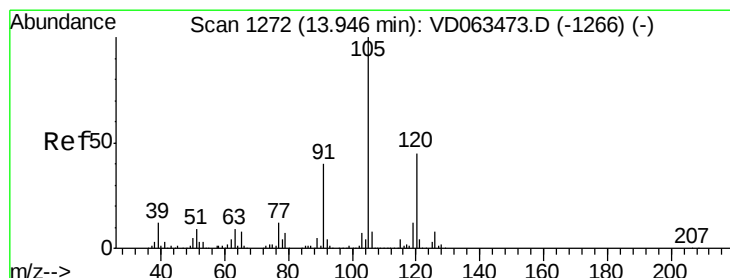
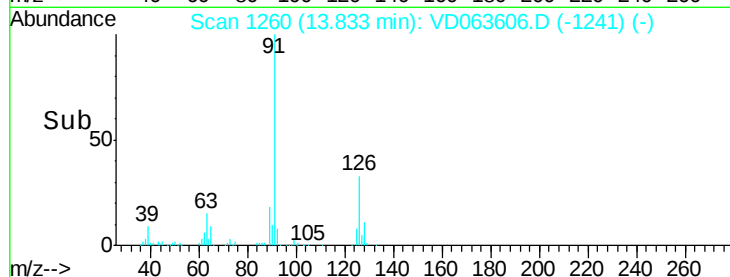
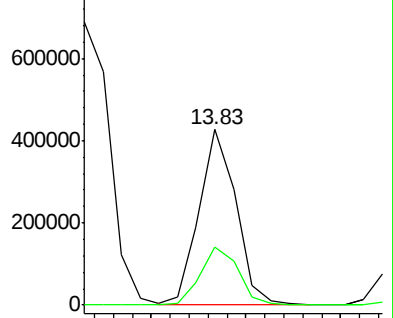
91 100

126 33.4 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): VD063473.D (-1259) (-)

Ion 125.95 (125.65 to 126.65): VD063473.D (-1259) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.369 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD063606.D

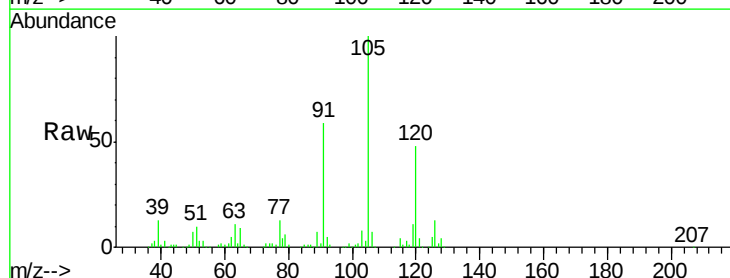
Acq: 15 Aug 2019 15:33

Tgt Ion: 105 Resp: 742101

Ion Ratio Lower Upper

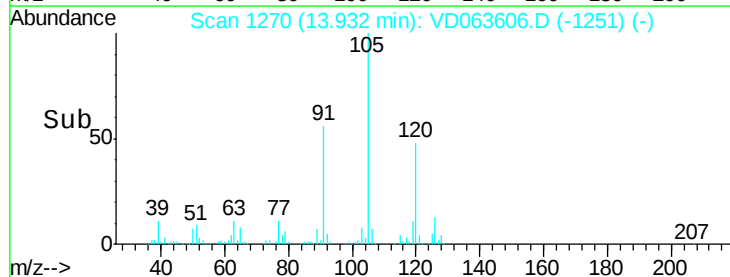
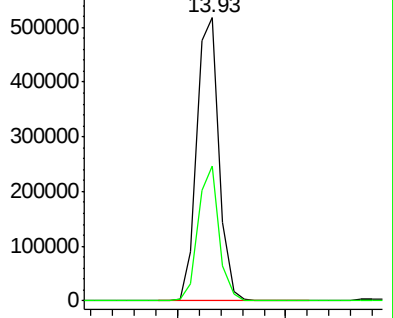
105 100

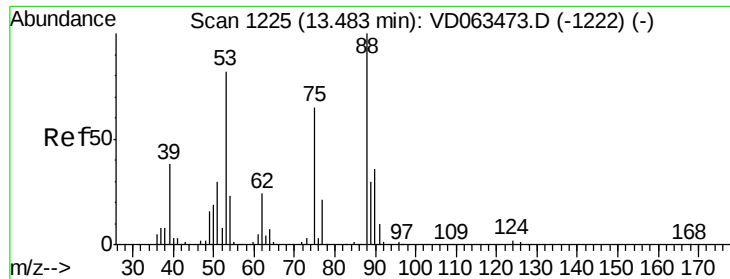
120 47.8 22.8 68.3



Abundance Ion 105.05 (104.75 to 105.75): VD063473.D (-1266) (-)

Ion 120.05 (119.75 to 120.75): VD063473.D (-1266) (-)

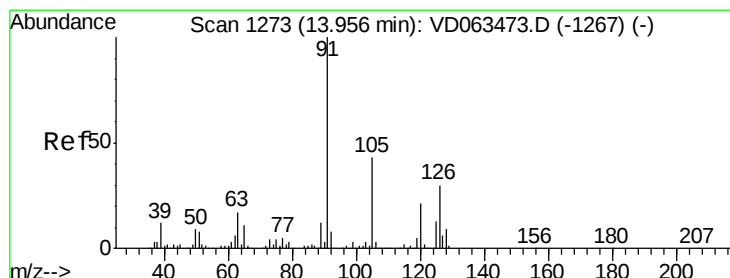
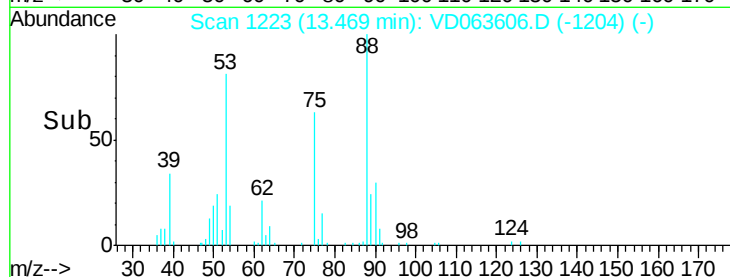
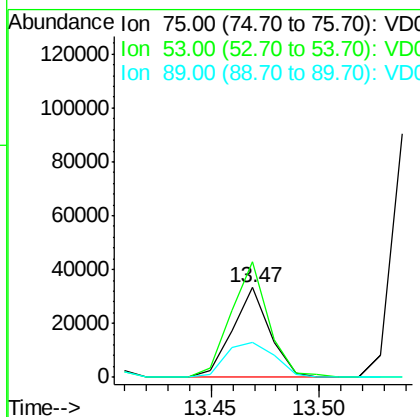
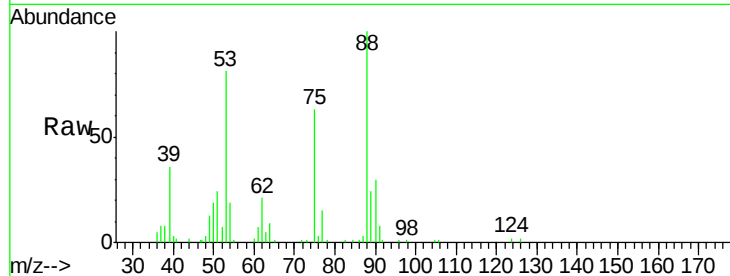




#81
trans-1,4-Dichloro-2-butene
Concen: 20.921 ug/l
RT: 13.47 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

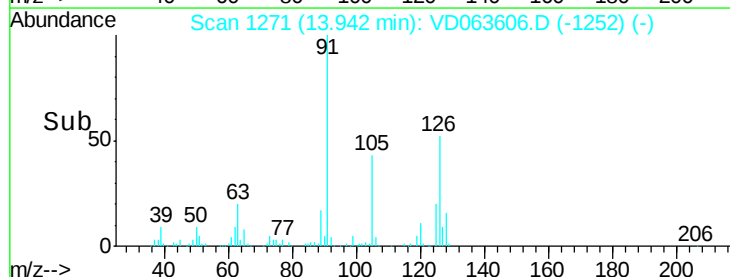
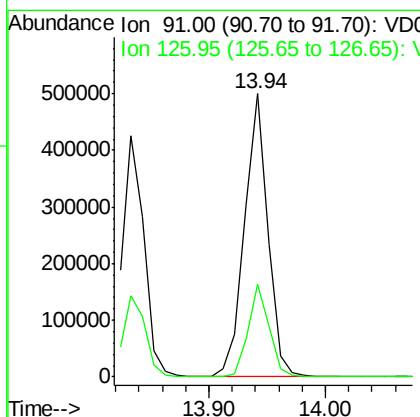
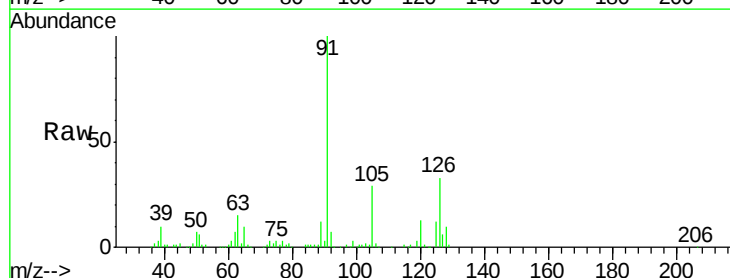
Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

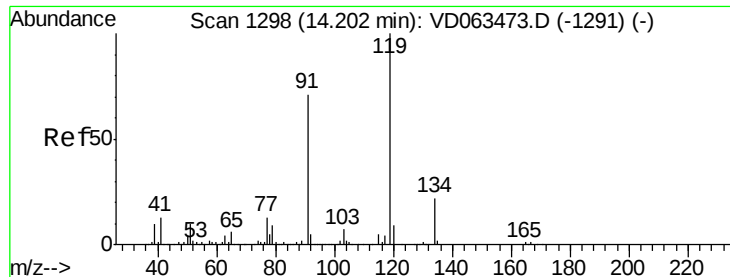
Tot Ion: 75 Resp: 40327
Ion Ratio Lower Upper
75 100
53 128.9 101.0 151.4
89 38.6 37.0 55.6



#82
4-Chlorotoluene
Concen: 21.495 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion: 91 Resp: 693075
Ion Ratio Lower Upper
91 100
126 32.6 15.2 45.6





#83

tert-Butylbenzene

Concen: 22.837 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

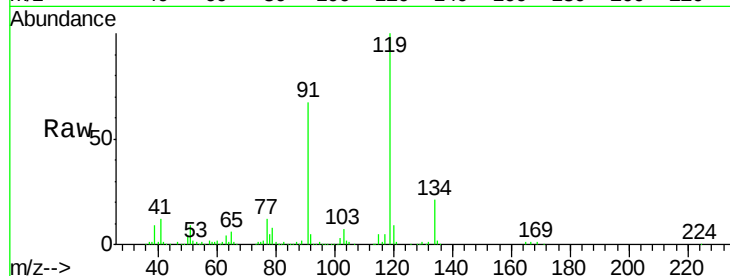
Tot Ion:119 Resp: 835128

Ion Ratio Lower Upper

119 100

91 67.0 35.5 106.7

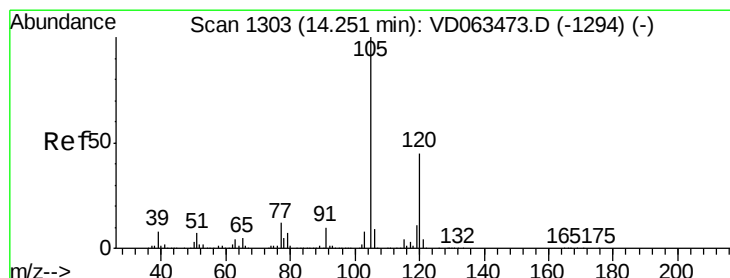
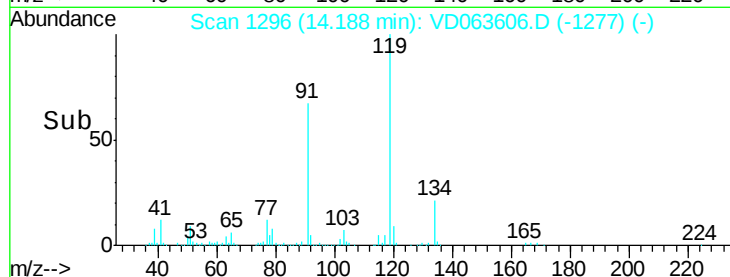
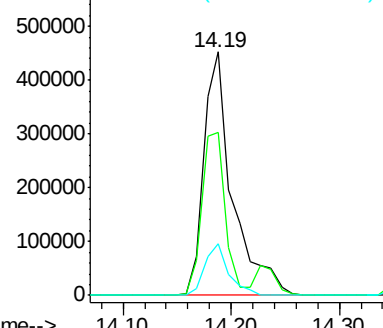
134 21.5 11.1 33.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 22.085 ug/l

RT: 14.23 min Scan# 1300

Delta R.T. -0.02 min

Lab File: VD063606.D

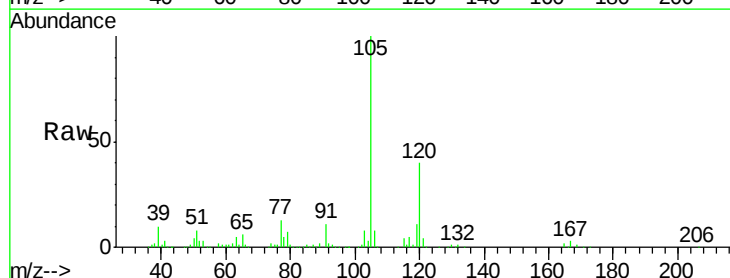
Acq: 15 Aug 2019 15:33

Tgt Ion:105 Resp: 709655

Ion Ratio Lower Upper

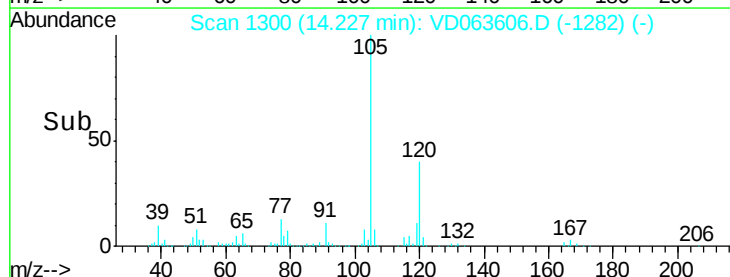
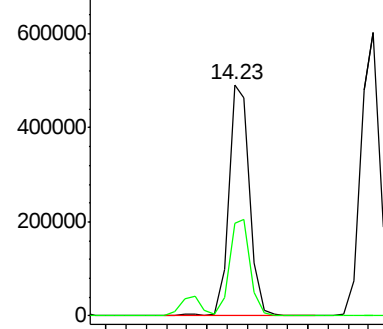
105 100

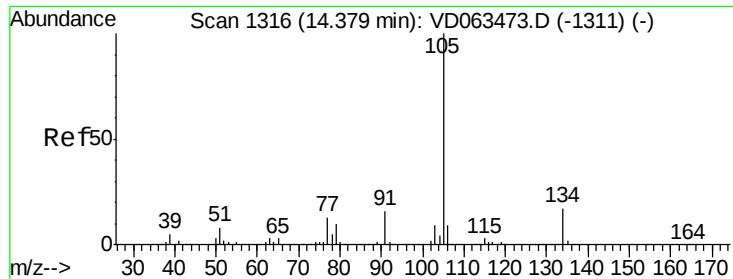
120 40.0 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 21.078 ug/l

RT: 14.37 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

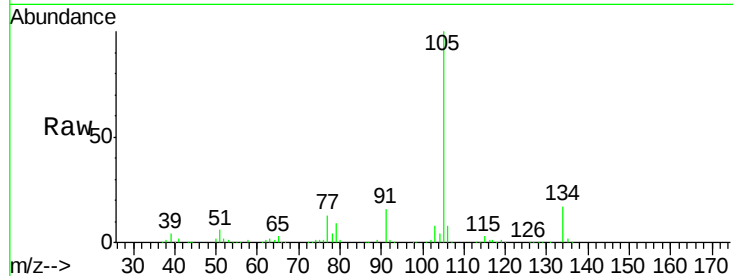
VD0815SBSD01

Tot Ion:105 Resp: 818581

Ion Ratio Lower Upper

105 100

134 17.0 8.3 24.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

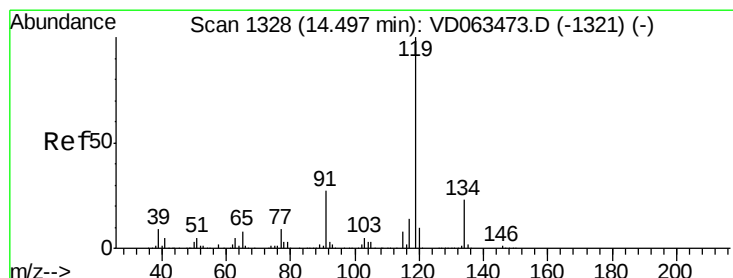
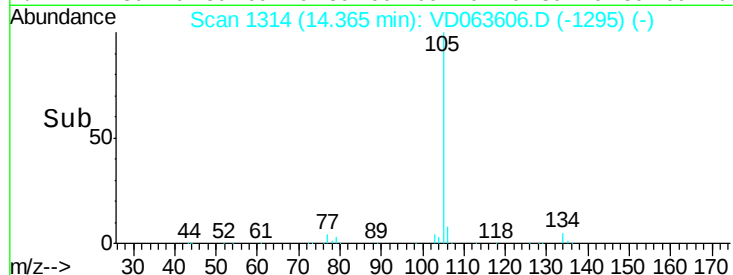
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.275 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

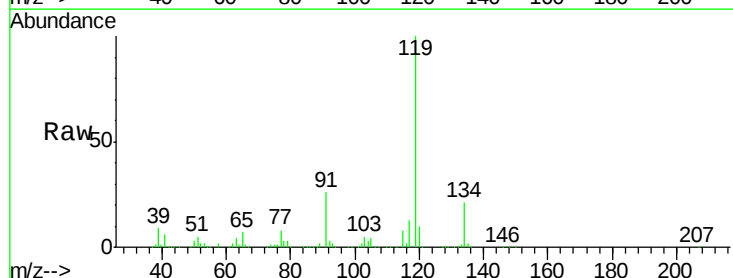
Tgt Ion:119 Resp: 752875

Ion Ratio Lower Upper

119 100

134 21.4 11.3 33.8

91 25.7 13.5 40.4



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

800000

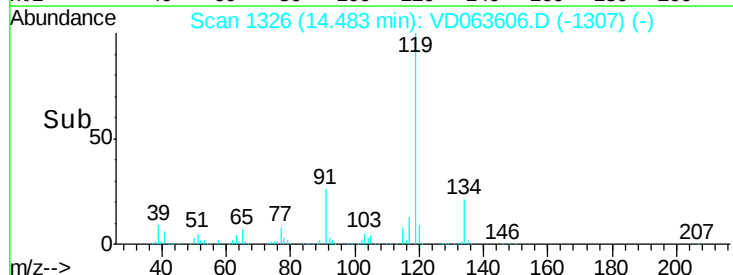
600000

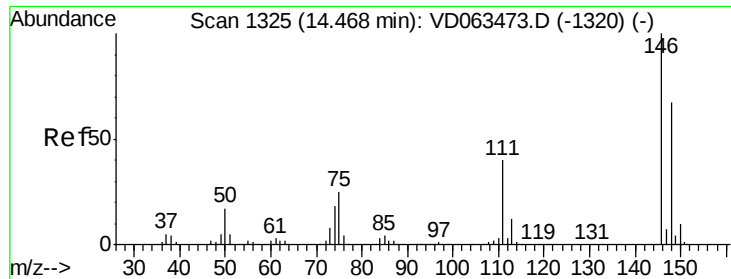
400000

200000

0

Time-->

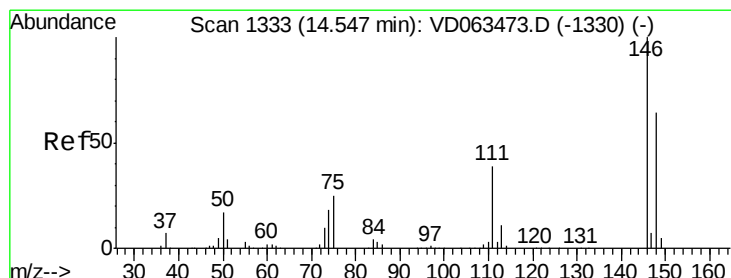
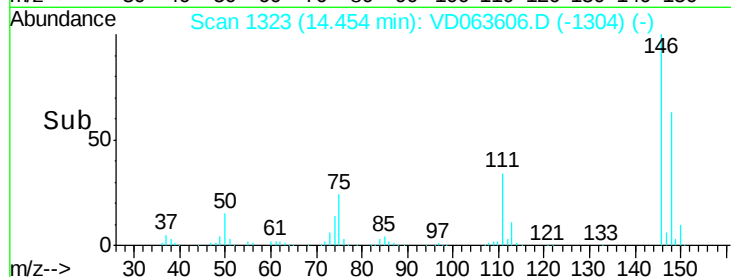
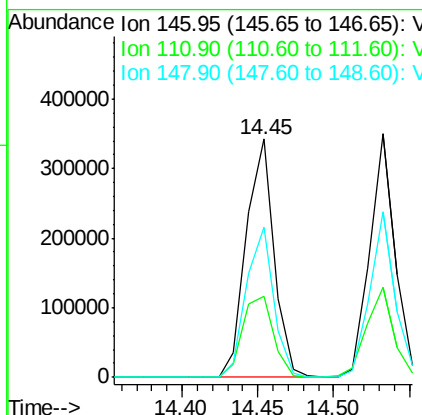
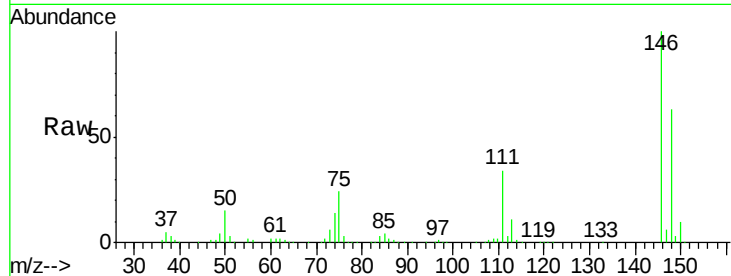




#87
 1,3-Dichlorobenzene
 Concen: 22.435 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

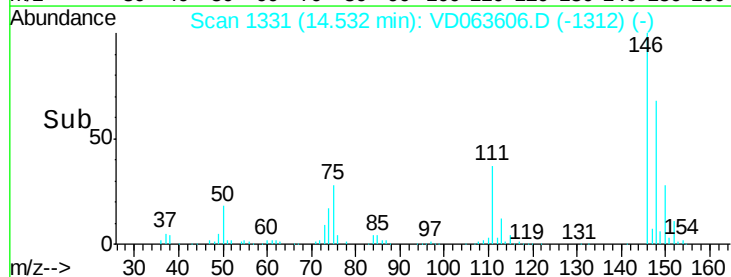
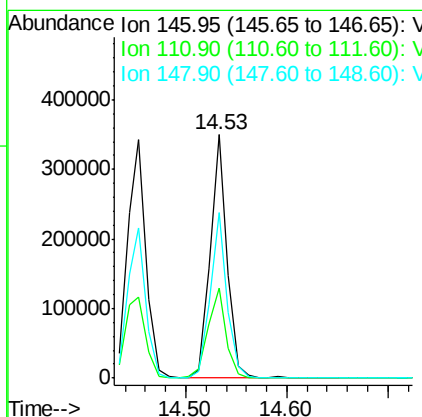
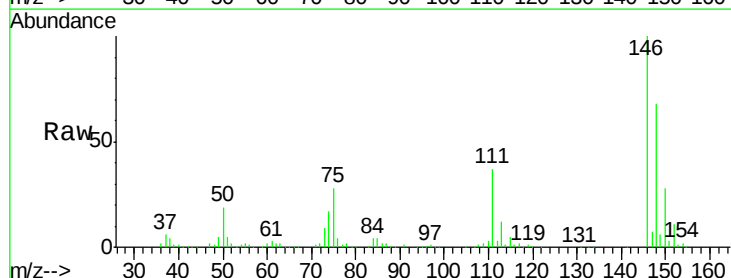
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0815SBSD01

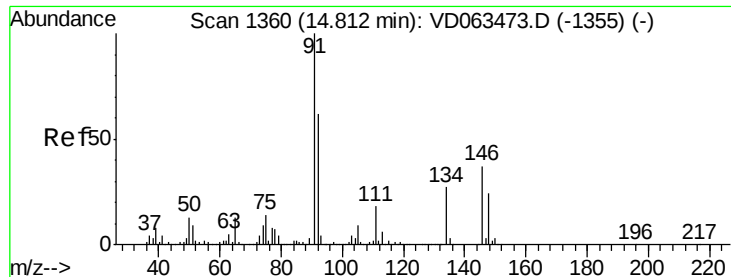
Tot Ion:146 Resp: 440811
 Ion Ratio Lower Upper
 146 100
 111 34.2 20.0 60.0
 148 63.2 33.6 100.6



#88
 1,4-Dichlorobenzene
 Concen: 21.803 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

Tgt Ion:146 Resp: 411020
 Ion Ratio Lower Upper
 146 100
 111 36.8 19.7 59.0
 148 68.1 32.1 96.3





#89

n-Butylbenzene

Concen: 22.272 ug/l

RT: 14.79 min Scan# 1357

Delta R.T. -0.02 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

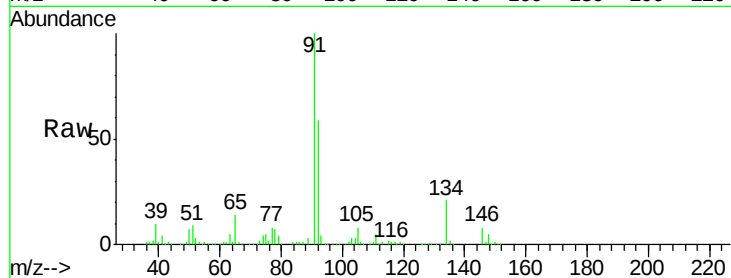
Tot Ion: 91 Resp: 754802

Ion Ratio Lower Upper

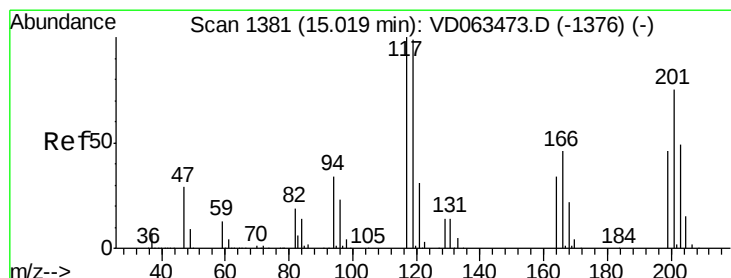
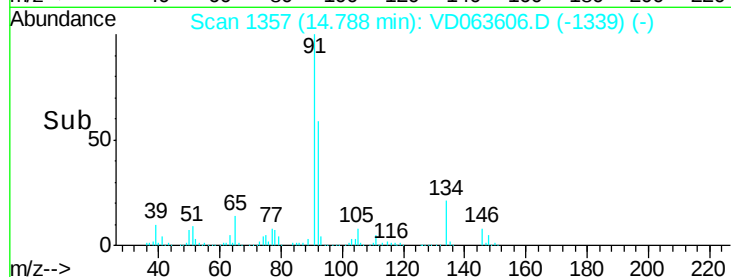
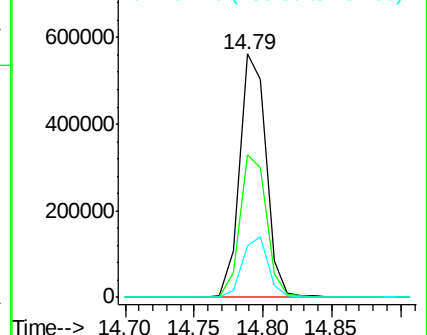
91 100

92 58.5 30.8 92.3

134 21.0 13.4 40.2



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 23.072 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD063606.D

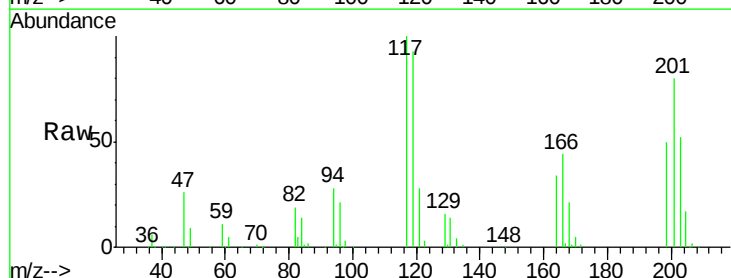
Acq: 15 Aug 2019 15:33

Tgt Ion: 117 Resp: 215343

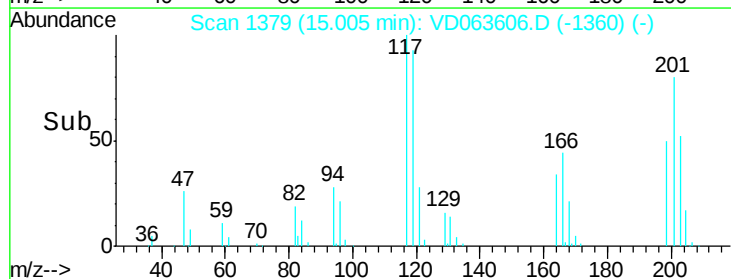
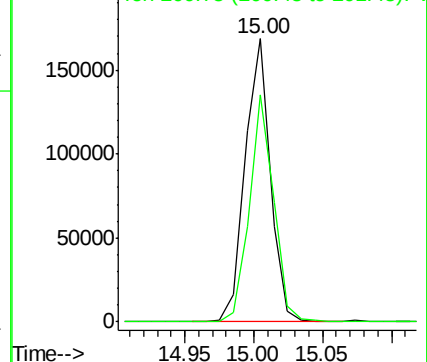
Ion Ratio Lower Upper

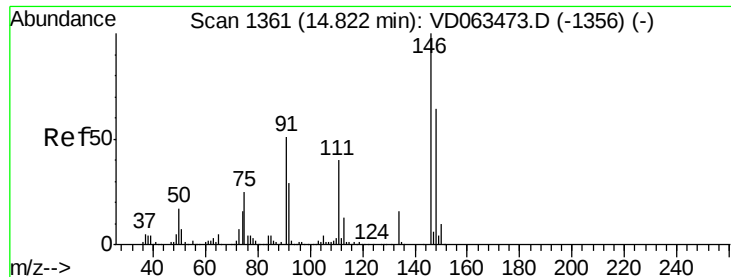
117 100

201 80.0 37.5 112.5



Abundance Ion 116.85 (116.55 to 117.55): VDC
Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 23.119 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

Instrument :

MSVOA_D

ClientSampleId :

VD0815SBS01

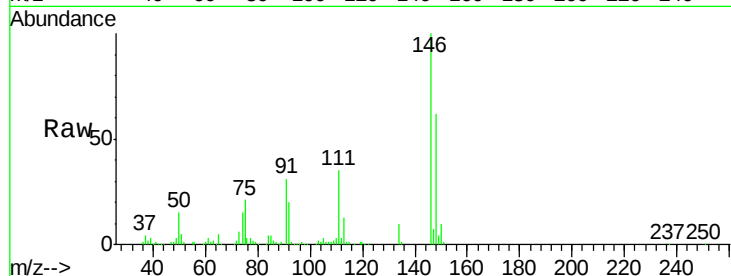
Tot Ion:146 Resp: 385414

Ion Ratio Lower Upper

146 100

111 35.3 20.2 60.6

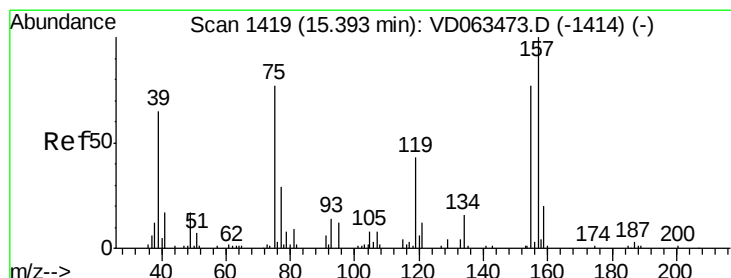
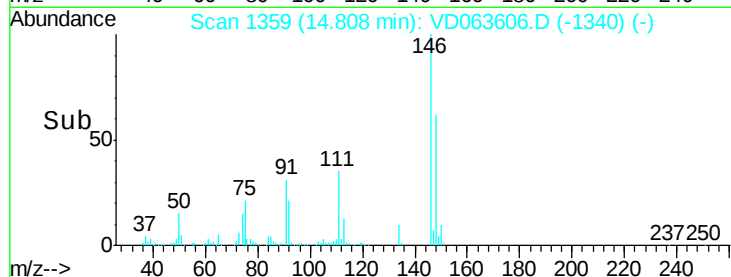
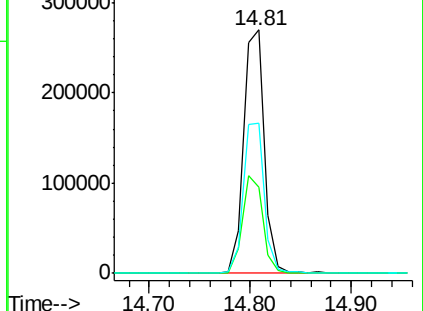
148 61.7 32.1 96.5



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: 22.605 ug/l

RT: 15.38 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VD063606.D

Acq: 15 Aug 2019 15:33

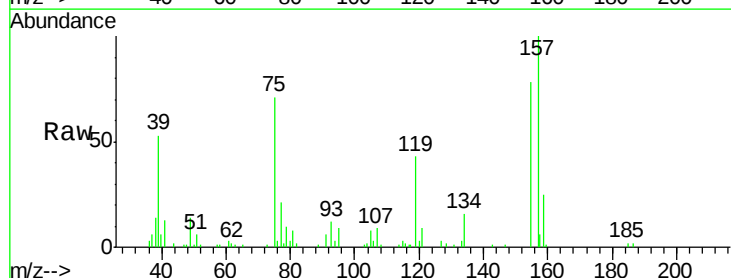
Tgt Ion: 75 Resp: 28080

Ion Ratio Lower Upper

75 100

155 110.3 50.1 150.3

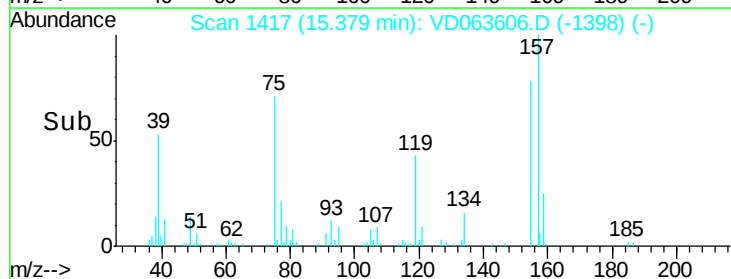
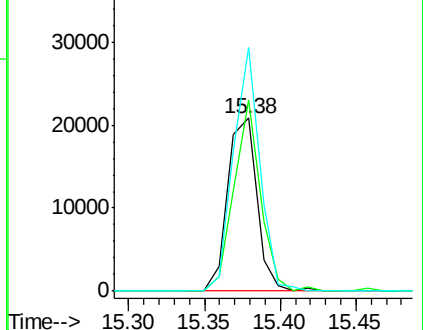
157 140.8 65.0 195.1

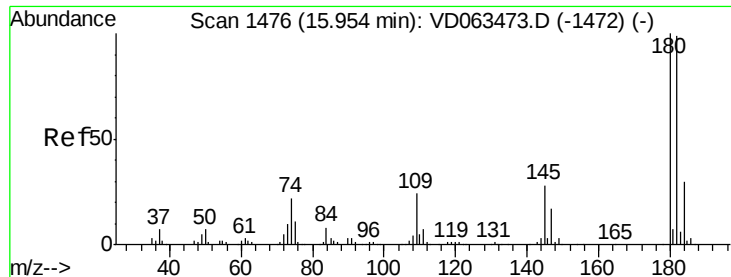


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

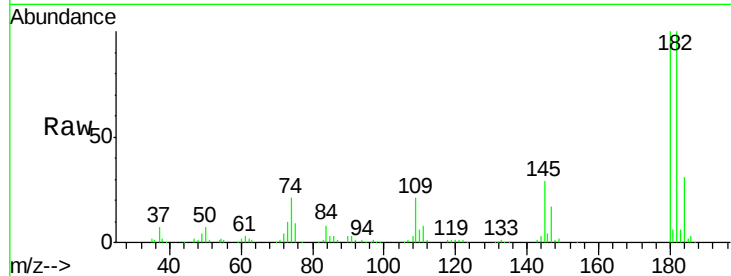




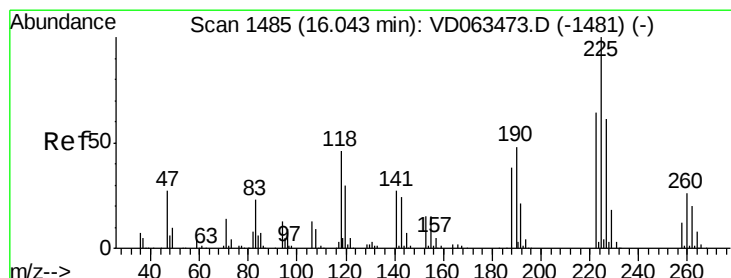
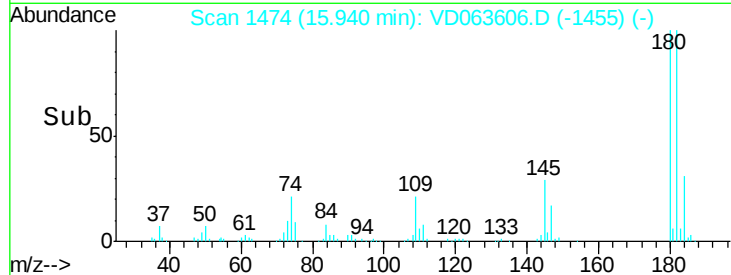
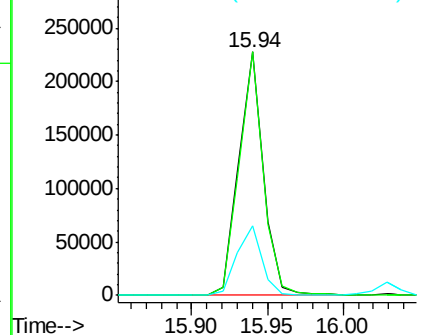
#93
 1,2,4-Trichlorobenzene
 Concen: 20.765 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0815SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.2	49.7	149.1
145	28.7	14.1	42.2

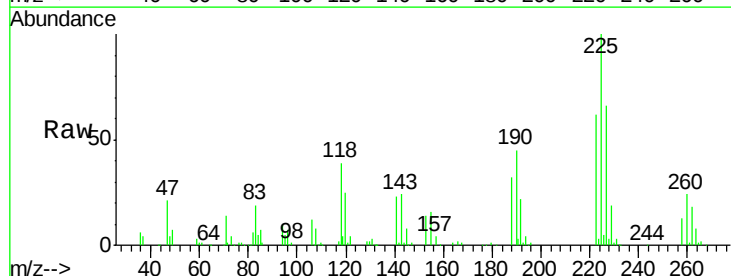


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

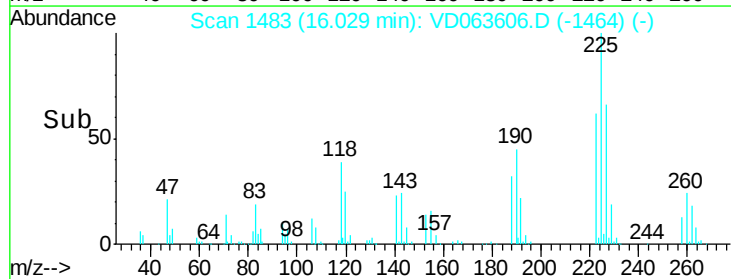
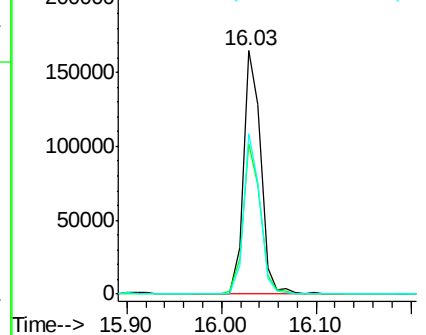


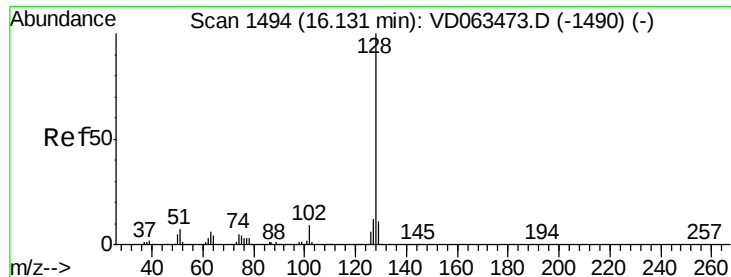
#94
 Hexachlorobutadiene
 Concen: 22.258 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. -0.01 min
 Lab File: VD063606.D
 Acq: 15 Aug 2019 15:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.9	95.5
227	65.9	30.7	92.1



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

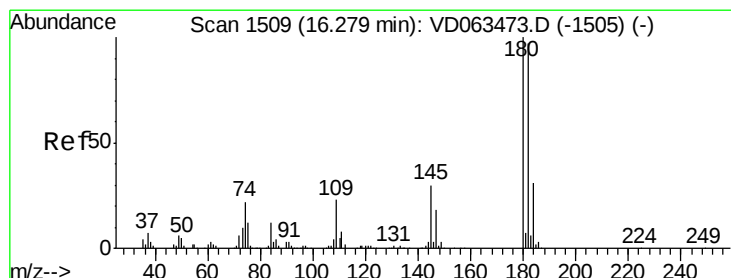
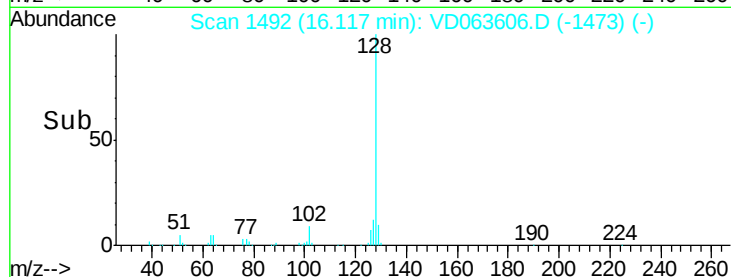
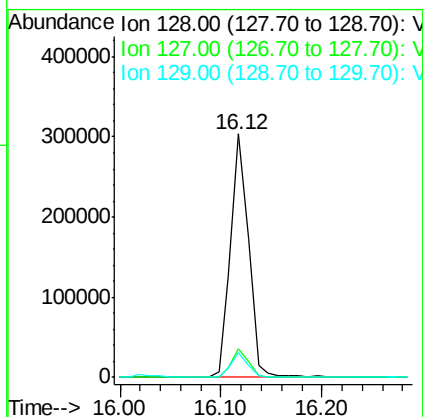
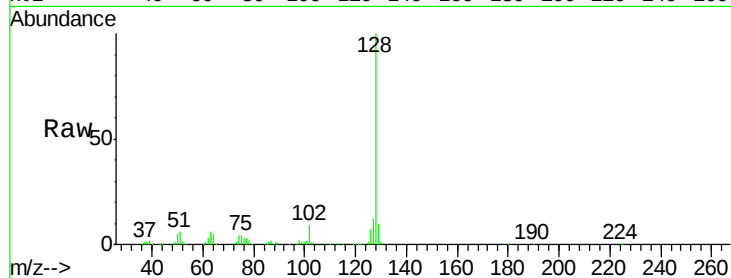




#95
Naphthalene
Concen: 20.307 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Instrument :
MSVOA_D
ClientSampleId :
VD0815SBSD01

Tot Ion:128 Resp: 377503
Ion Ratio Lower Upper
128 100
127 11.6 9.4 14.0
129 9.9 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 21.701 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD063606.D
Acq: 15 Aug 2019 15:33

Tgt Ion:180 Resp: 215003
Ion Ratio Lower Upper
180 100
182 90.6 48.4 145.2
145 26.0 14.9 44.9

