

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063170.D
 Acq On : 22 Jul 2019 12:04
 Operator : VA/AP
 Sample : VD0722SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

Quant Time: Jul 23 07:47:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	657490	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	948242	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	774054	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	452165	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	449785	54.92	ug/l	0.01
Spiked Amount	50.000		Recovery	=	109.84%	
35) Dibromofluoromethane	6.93	113	475098	50.30	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	10.41	98	996505	49.12	ug/l	0.01
Spiked Amount	50.000		Recovery	=	98.24%	
62) 4-Bromofluorobenzene	13.56	95	417749	44.51	ug/l	0.01
Spiked Amount	50.000		Recovery	=	89.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.56	85	189790	25.926	ug/l	94
3) Chloromethane	1.74	50	154845	24.272	ug/l #	85
4) Vinyl Chloride	1.84	62	147723	21.051	ug/l #	88
5) Bromomethane	2.14	94	55298	18.612	ug/l	94
6) Chloroethane	2.25	64	70646	21.673	ug/l #	85
7) Trichlorofluoromethane	2.52	101	307640	21.657	ug/l	95
8) Diethyl Ether	2.87	74	50457	25.251	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.14	101	182819	22.319	ug/l	100
10) Methyl Iodide	3.29	142	229738	22.846	ug/l	98
11) Tert butyl alcohol	4.08	59	55813	118.080	ug/l	97
12) 1,1-Dichloroethene	3.12	96	131239	22.563	ug/l	97
13) Acrolein	3.03	56	14726	103.225	ug/l	93
14) Allyl chloride	3.61	41	206375	22.575	ug/l	92
15) Acrylonitrile	4.19	53	122965	117.687	ug/l	90
16) Acetone	3.22	43	213158	107.754	ug/l	97
17) Carbon Disulfide	3.36	76	372436	22.370	ug/l	98
18) Methyl Acetate	3.64	43	99135	36.262	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	347387	23.659	ug/l	94
20) Methylene Chloride	3.81	84	160507	21.477	ug/l	96
21) trans-1,2-Dichloroethene	4.21	96	144749	22.417	ug/l	90
22) Diisopropyl ether	5.12	45	472857	23.791	ug/l	96
23) Vinyl Acetate	5.06	43	1335485	115.171	ug/l	99
24) 1,1-Dichloroethane	4.98	63	298060	24.345	ug/l #	97
25) 2-Butanone	6.08	43	223255	118.186	ug/l	99
26) 2,2-Dichloropropane	6.02	77	300592	22.184	ug/l	94
27) cis-1,2-Dichloroethene	6.03	96	165852	22.580	ug/l	100
28) Bromochloromethane	6.43	49	112867	25.411	ug/l	83
29) Tetrahydrofuran	6.46	42	97532	113.899	ug/l	96
30) Chloroform	6.67	83	344982	22.880	ug/l	96
31) Cyclohexane	6.96	56	173141	22.206	ug/l #	86
32) 1,1,1-Trichloroethane	6.87	97	348300	23.426	ug/l	95
36) 1,1-Dichloropropene	7.15	75	209024	19.600	ug/l	97
37) Ethyl Acetate	6.19	43	114904	25.175	ug/l	96
38) Carbon Tetrachloride	7.11	117	321228	19.823	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	173747	18.844	ug/l	93
40) Benzene	7.46	78	487016	21.804	ug/l	99
41) Methacrylonitrile	6.44	41	128741	20.805	ug/l #	95
42) 1,2-Dichloroethane	7.59	62	263546	22.147	ug/l	99
43) Isopropyl Acetate	9.25	43	145869	22.297	ug/l #	99
44) Trichloroethene	8.54	130	187919	21.770	ug/l	94
45) 1,2-Dichloropropane	8.94	63	113282	20.342	ug/l	96
46) Dibromomethane	9.06	93	103746	21.679	ug/l	83
47) Bromodichloromethane	9.38	83	252126	20.190	ug/l	99
48) Methyl methacrylate	9.12	41	92238	21.470	ug/l #	87
49) 1,4-Dioxane	9.10	88	16838	454.451	ug/l #	86
51) 4-Methyl-2-Pentanone	10.30	43	487253	112.293	ug/l	98
52) Toluene	10.51	92	312051	20.921	ug/l	90
53) t-1,3-Dichloropropene	10.92	75	224096	20.946	ug/l	98
54) cis-1,3-Dichloropropene	10.05	75	226785	20.500	ug/l	97
55) 1,1,2-Trichloroethane	11.20	97	116495	22.601	ug/l	93
56) Ethyl methacrylate	11.04	69	109968	19.094	ug/l	92
57) 1,3-Dichloropropane	11.42	76	160251	20.431	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	344216	107.341	ug/l	99
59) 2-Hexanone	11.54	43	374561	111.931	ug/l	95
60) Dibromochloromethane	11.69	129	211715	21.427	ug/l	98
61) 1,2-Dibromoethane	11.81	107	126129	20.443	ug/l	90
64) Tetrachloroethene	11.26	164	173290	23.072	ug/l	95
65) Chlorobenzene	12.40	112	388012	21.324	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	187452	22.220	ug/l	97
67) Ethyl Benzene	12.53	91	700791	22.166	ug/l	99
68) m/p-Xylenes	12.68	106	477028	42.126	ug/l	96
69) o-Xylene	13.05	106	233922	21.786	ug/l	95
70) Styrene	13.08	104	410291	21.830	ug/l	97
71) Bromoform	13.24	173	132836	22.491	ug/l	92
73) Isopropylbenzene	13.40	105	707716	20.267	ug/l	97
74) N-amyl acetate	13.27	43	195673	20.092	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	13.70	83	135032	21.254	ug/l	96
76) 1,2,3-Trichloropropane	13.74	75	145670	20.943	ug/l	97
77) Bromobenzene	13.67	156	203462	20.546	ug/l	83
78) n-propylbenzene	13.78	91	823521	20.494	ug/l	99
79) 2-Chlorotoluene	13.85	91	483561	19.902	ug/l	90
80) 1,3,5-Trimethylbenzene	13.94	105	624634	20.524	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	31607	17.256	ug/l	92
82) 4-Chlorotoluene	13.96	91	592967	20.900	ug/l	98
83) tert-Butylbenzene	14.19	119	680499	19.775	ug/l	92
84) 1,2,4-Trimethylbenzene	14.24	105	607204	20.012	ug/l	96
85) sec-Butylbenzene	14.37	105	683692	18.700	ug/l	94
86) p-Isopropyltoluene	14.50	119	668482	19.599	ug/l	99
87) 1,3-Dichlorobenzene	14.46	146	336365	19.020	ug/l	97
88) 1,4-Dichlorobenzene	14.55	146	357729	21.100	ug/l	99
89) n-Butylbenzene	14.80	91	599654	19.074	ug/l	97
90) Hexachloroethane	15.01	117	180828	19.832	ug/l	74
91) 1,2-Dichlorobenzene	14.81	146	304851	19.359	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25051	20.571	ug/l	90

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Quant Title : SW846 8260
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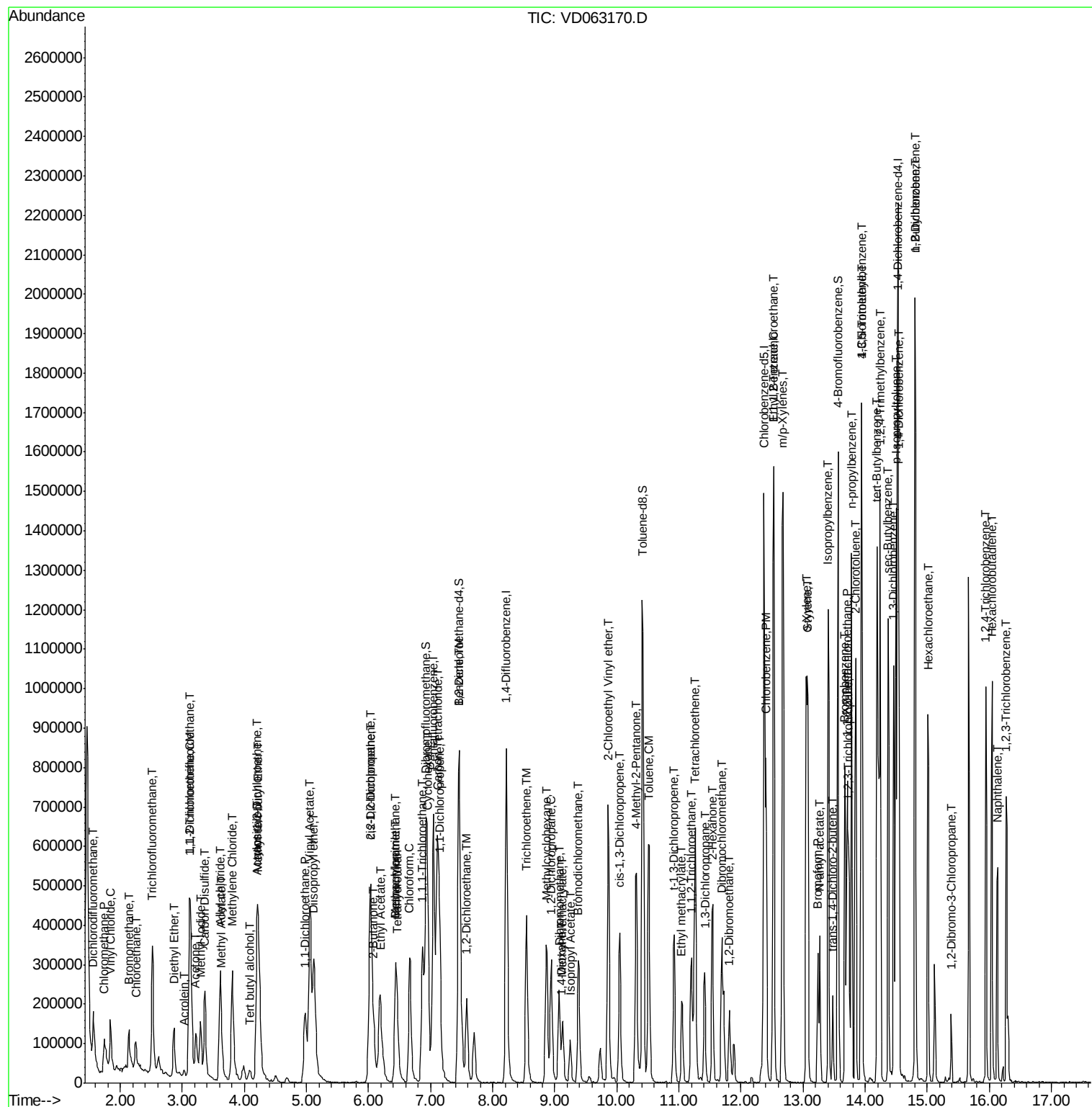
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	248292	20.987	ug/l	94
94) Hexachlorobutadiene	16.04	225	169417	19.428	ug/l	98
95) Naphthalene	16.13	128	368683	21.304	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	198266	20.832	ug/l	96

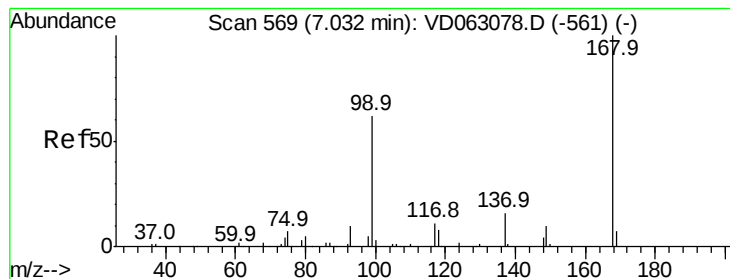
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

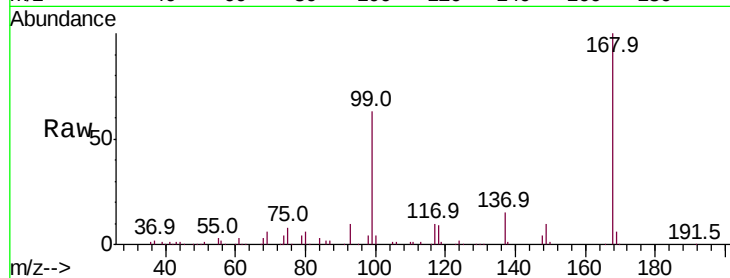
VD0722SBS01

Tot Ion:168 Resp: 657490

Ion Ratio Lower Upper

168 100

99 62.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

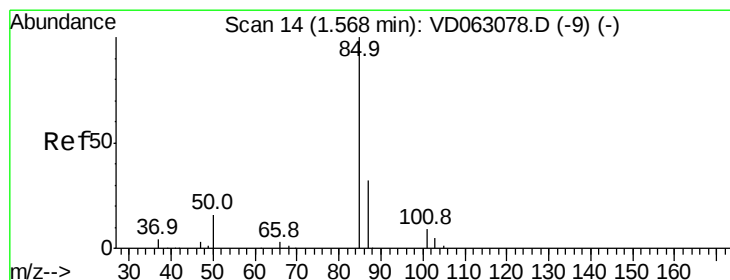
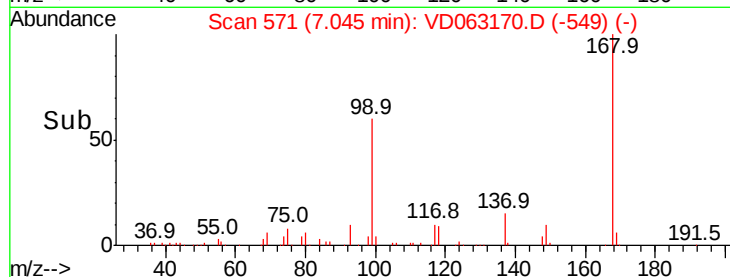
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 25.926 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063170.D

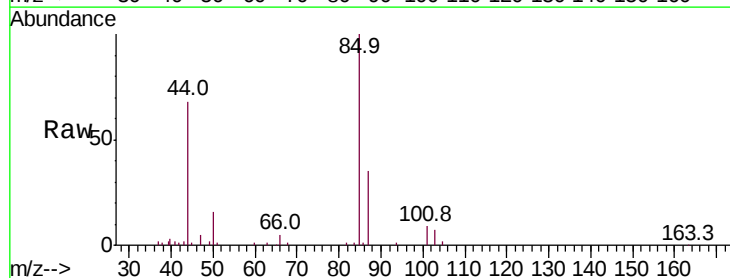
Acq: 22 Jul 2019 12:04

Tgt Ion: 85 Resp: 189790

Ion Ratio Lower Upper

85 100

87 35.2 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.56

80000

60000

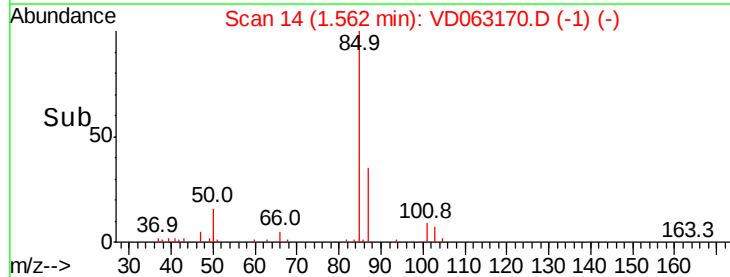
40000

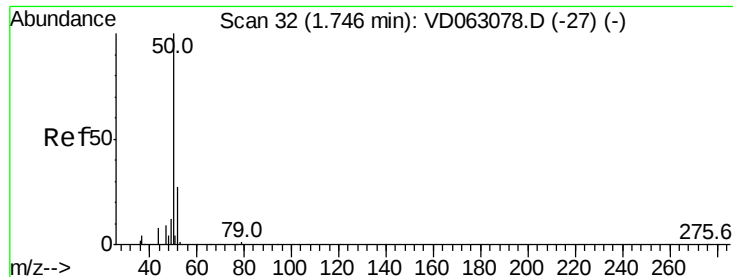
20000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 24.272 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

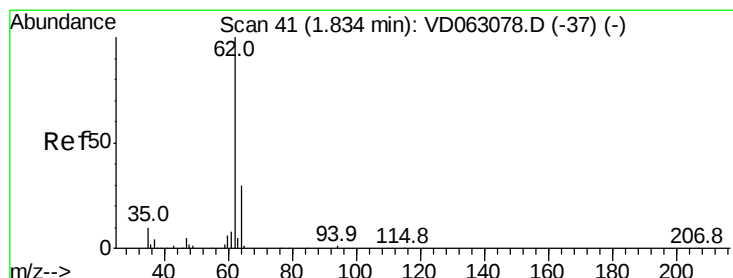
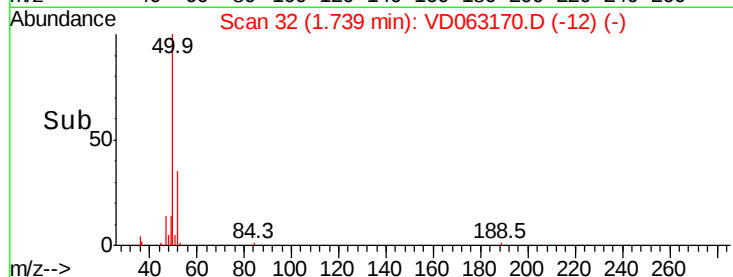
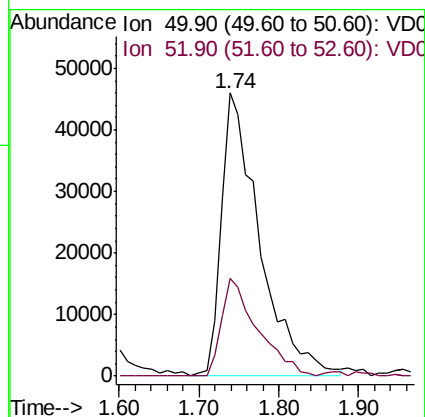
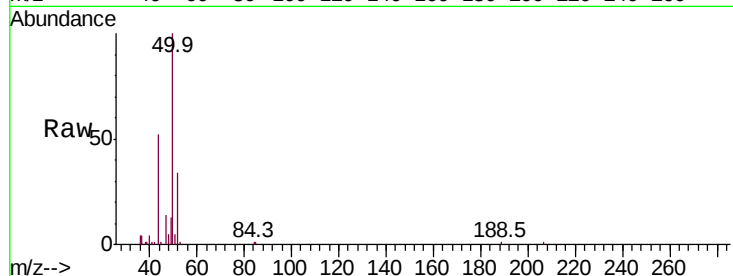
VD0722SBS01

Tot Ion: 50 Resp: 154845

Ion Ratio Lower Upper

50 100

52 34.5 21.4 32.2#



#4

Vinyl Chloride

Concen: 21.051 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD063170.D

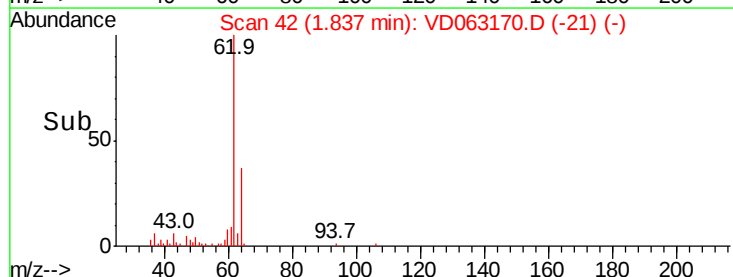
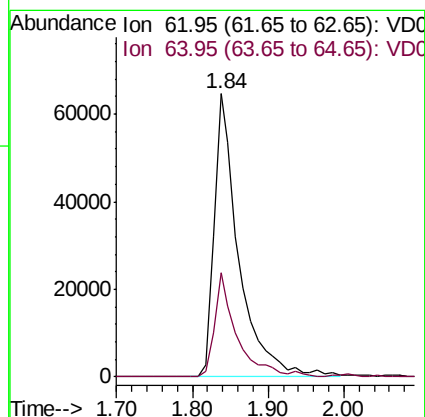
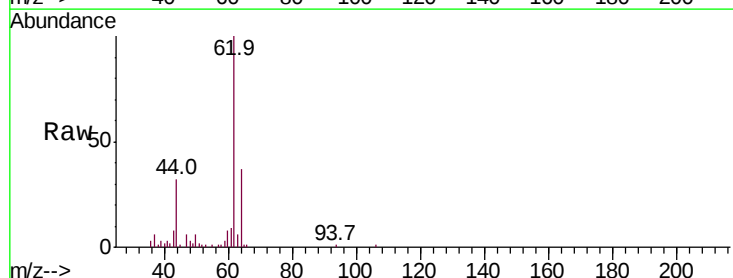
Acq: 22 Jul 2019 12:04

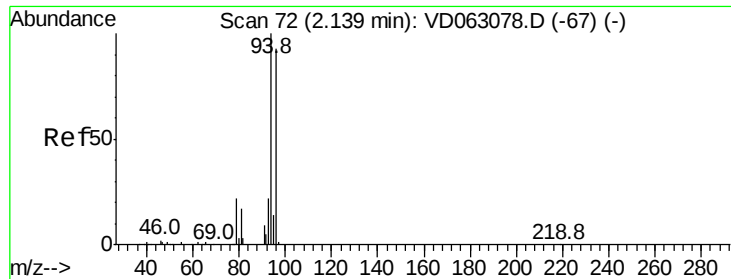
Tgt Ion: 62 Resp: 147723

Ion Ratio Lower Upper

62 100

64 36.9 24.4 36.6#





#5

Bromomethane

Concen: 18.612 ug/l

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

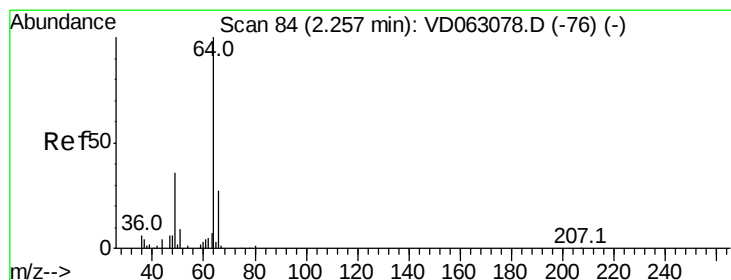
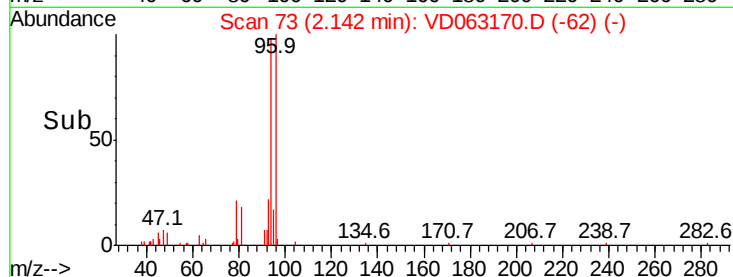
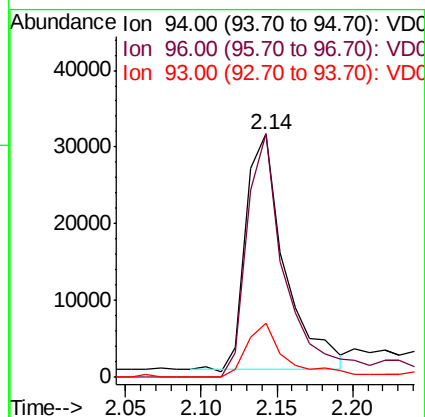
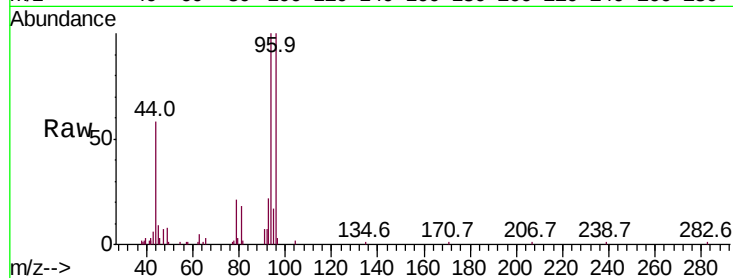
Tot Ion: 94 Resp: 55298

Ion Ratio Lower Upper

94 100

96 100.1 74.2 111.2

93 22.3 17.8 26.6



#6

Chloroethane

Concen: 21.673 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063170.D

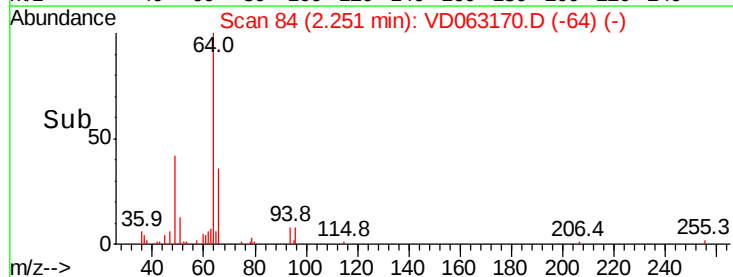
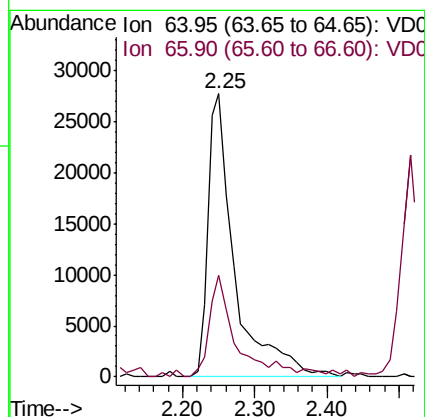
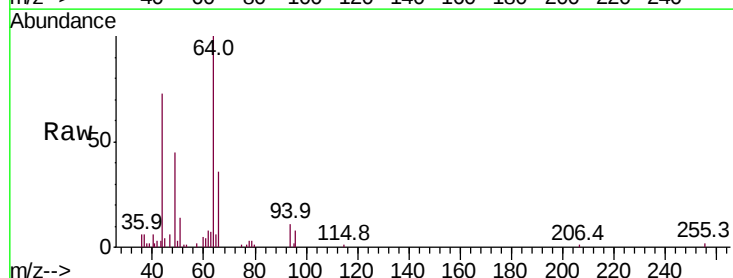
Acq: 22 Jul 2019 12:04

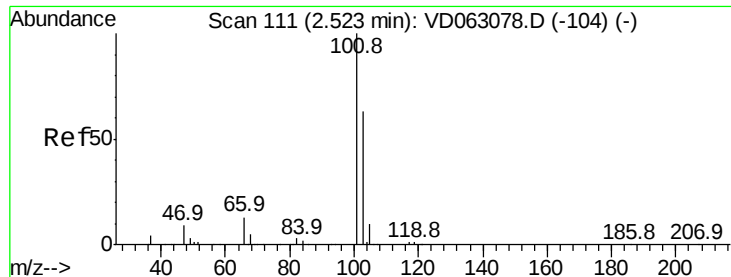
Tgt Ion: 64 Resp: 70646

Ion Ratio Lower Upper

64 100

66 35.9 22.5 33.7#



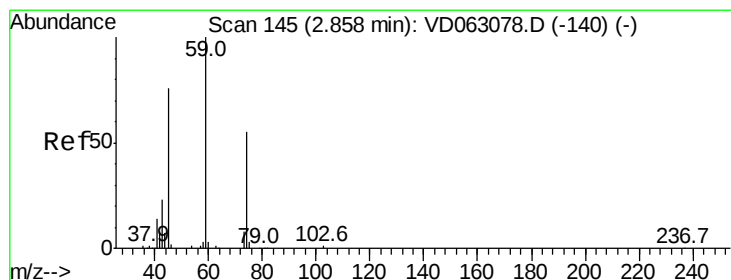
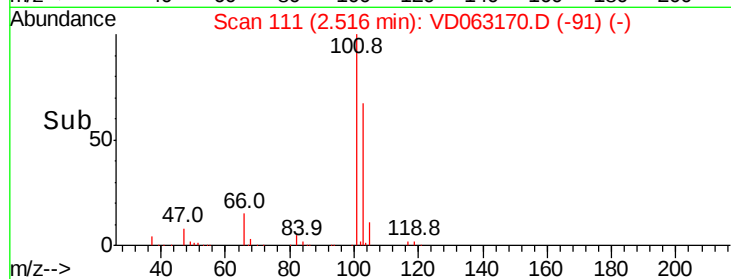
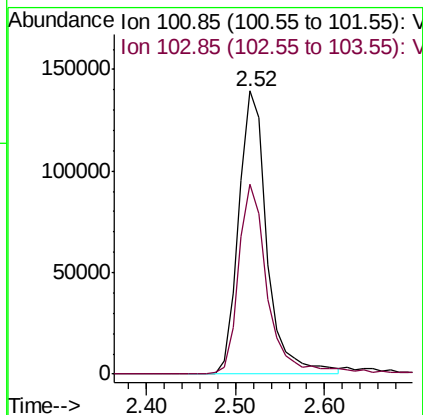
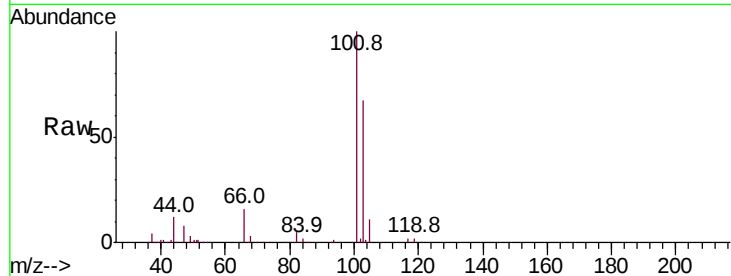


#7

Trichlorofluoromethane
 Concen: 21.657 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

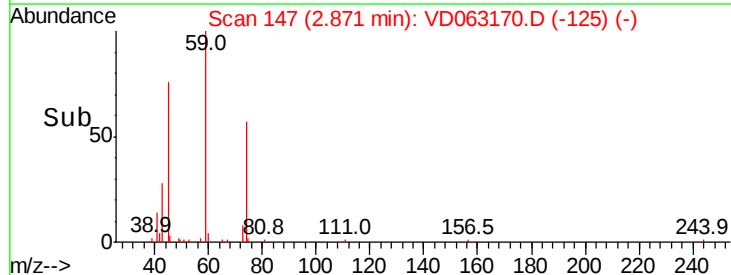
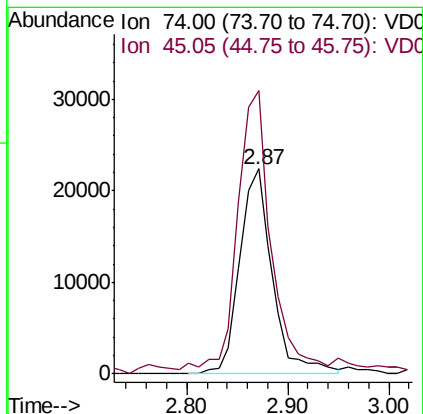
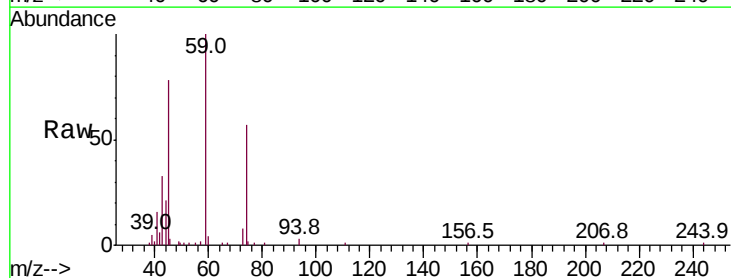
Tot Ion:101 Resp: 307640
 Ion Ratio Lower Upper
 101 100
 103 66.9 50.6 76.0

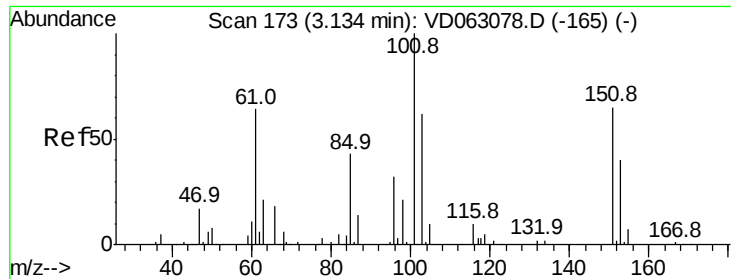


#8

Diethyl Ether
 Concen: 25.251 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 74 Resp: 50457
 Ion Ratio Lower Upper
 74 100
 45 138.2 69.5 208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.319 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

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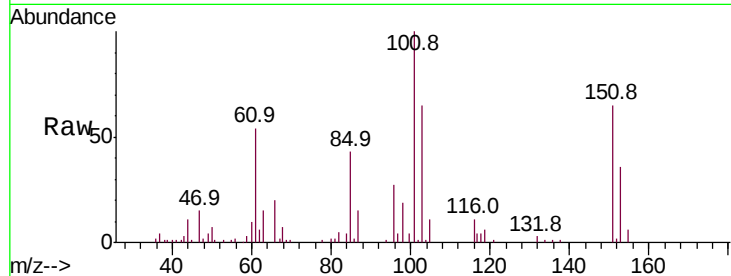
Tot Ion:101 Resp: 182819

Ion Ratio Lower Upper

101 100

85 43.4 34.6 51.8

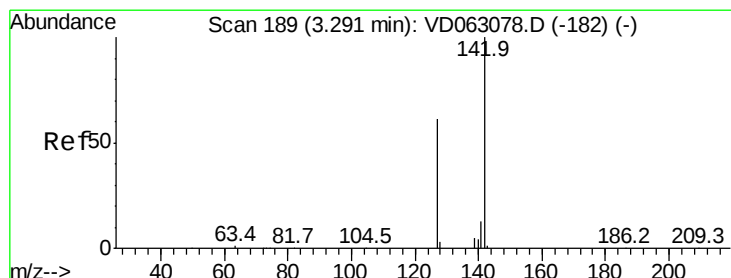
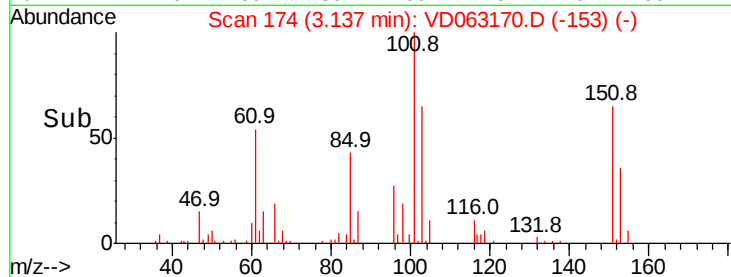
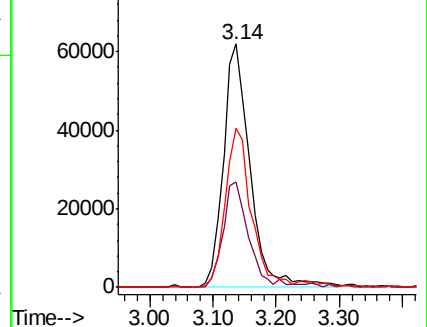
151 65.5 52.4 78.6



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: 22.846 ug/l

RT: 3.29 min Scan# 190

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

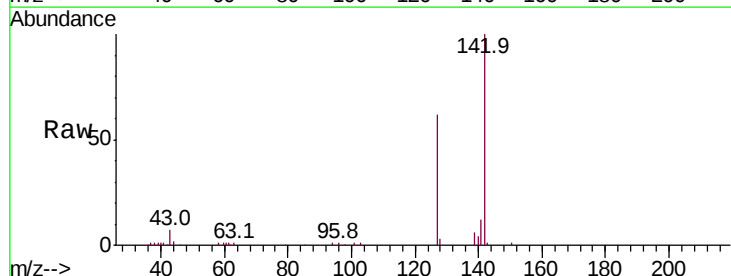
Tgt Ion:142 Resp: 229738

Ion Ratio Lower Upper

142 100

127 62.2 48.6 73.0

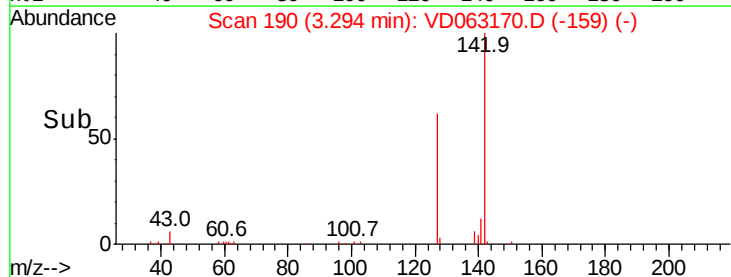
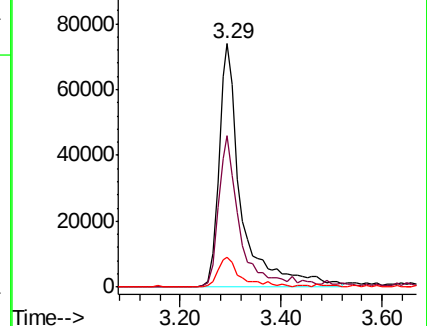
141 12.0 10.6 16.0

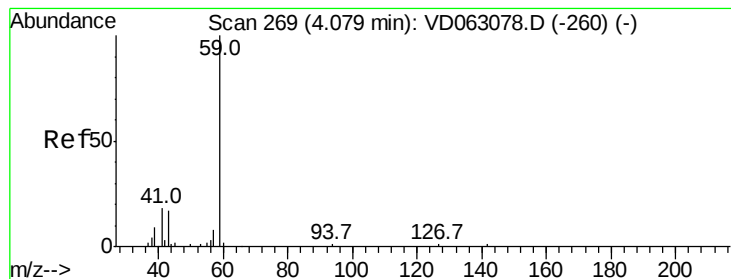


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



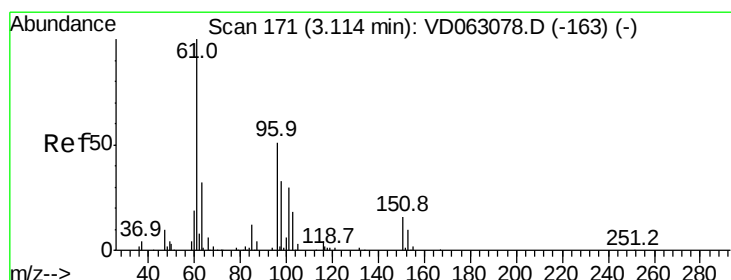
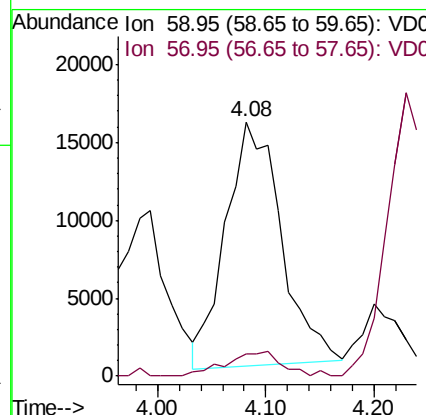
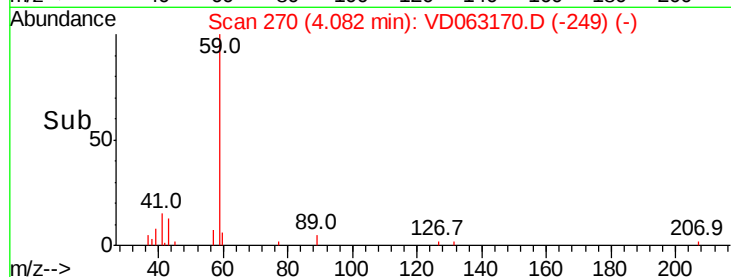
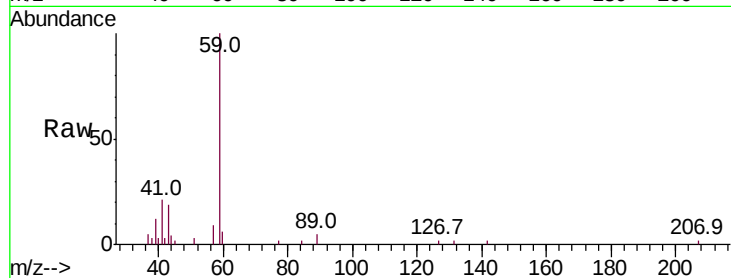


#11

Tert butyl alcohol
 Concen: 118.080 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. 0.00 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

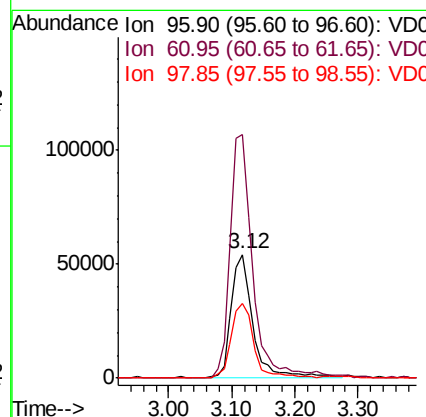
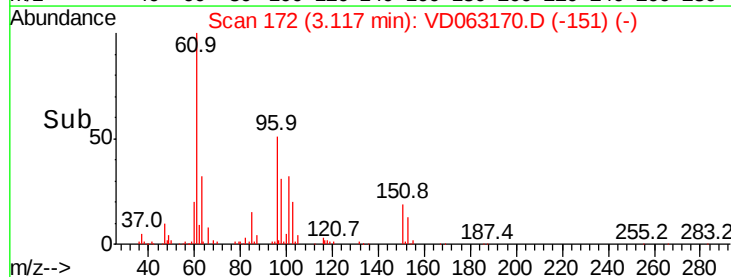
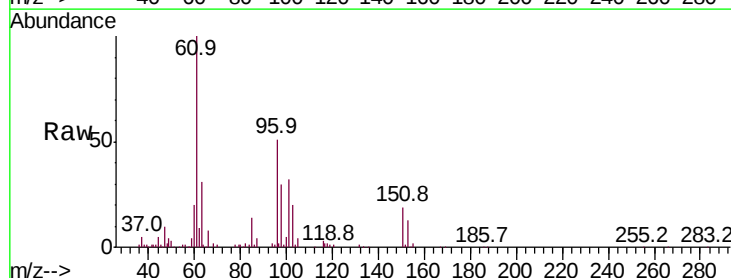
Tot Ion: 59 Resp: 55813
 Ion Ratio Lower Upper
 59 100
 57 9.0 6.4 9.6

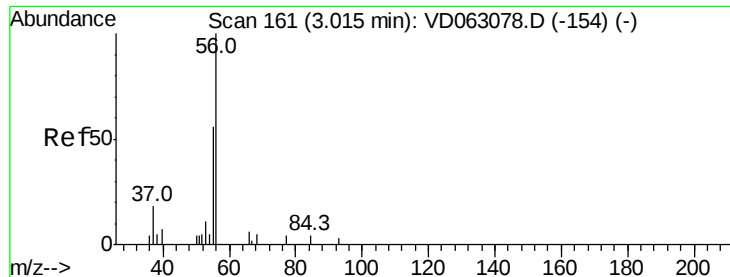


#12

1,1-Dichloroethene
 Concen: 22.563 ug/l
 RT: 3.12 min Scan# 172
 Delta R.T. 0.00 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 96 Resp: 131239
 Ion Ratio Lower Upper
 96 100
 61 197.4 155.5 233.3
 98 60.2 51.5 77.3





#13

Acrolein

Concen: 103.225 ug/l

RT: 3.03 min Scan# 163

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

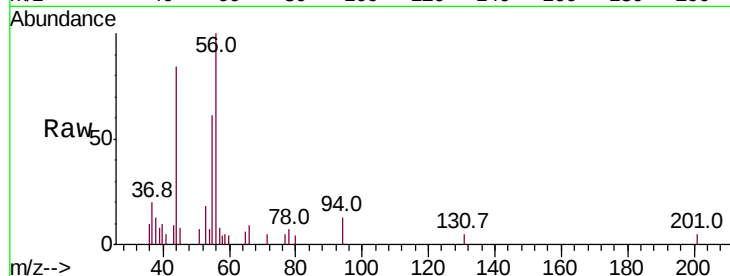
VD0722SBS01

Tot Ion: 56 Resp: 14726

Ion Ratio Lower Upper

56 100

55 60.6 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.03

8000

6000

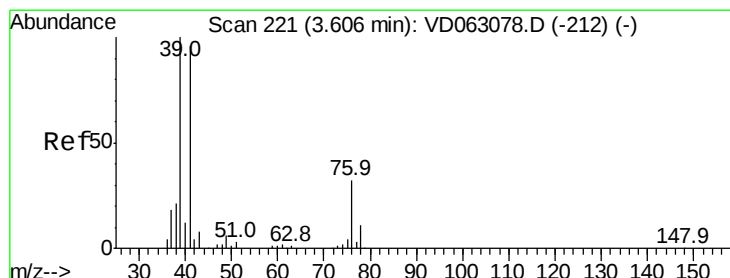
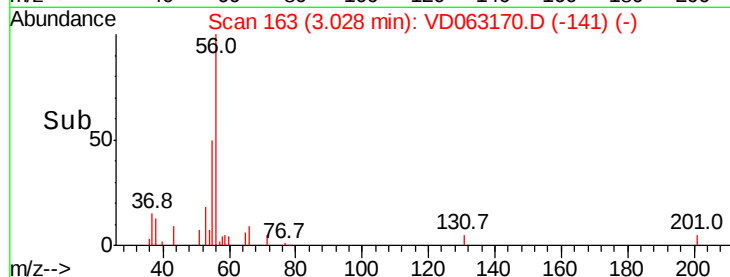
4000

2000

0

Time-->

2.95 3.00 3.05 3.10



#14

Allyl chloride

Concen: 22.575 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

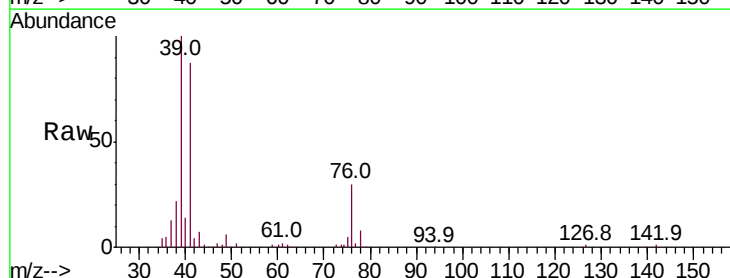
Tgt Ion: 41 Resp: 206375

Ion Ratio Lower Upper

41 100

39 114.4 83.5 125.3

76 34.1 27.8 41.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

120000

100000

80000

60000

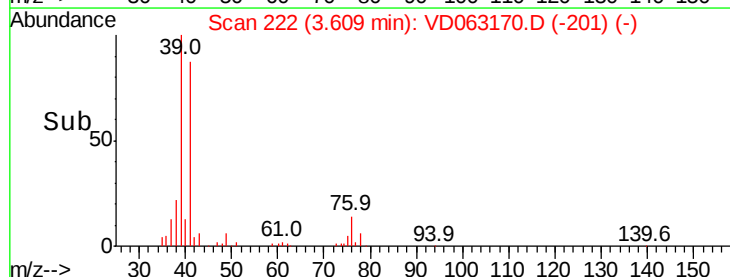
40000

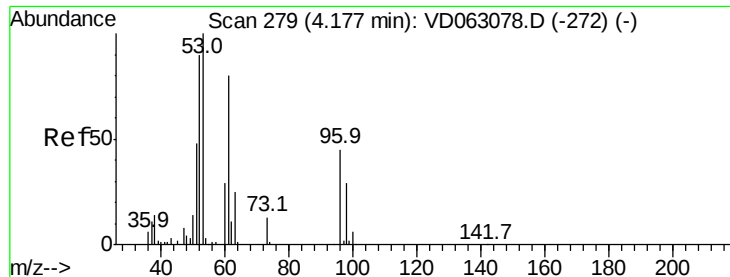
20000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 117.687 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

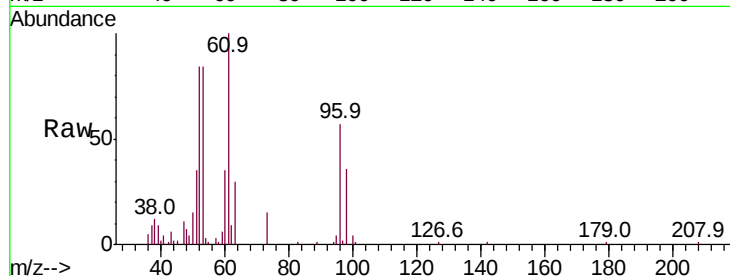
Tot Ion: 53 Resp: 122965

Ion Ratio Lower Upper

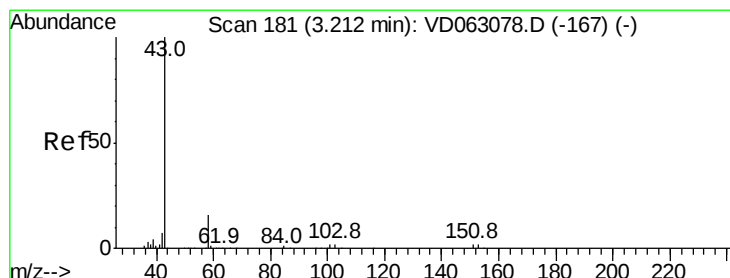
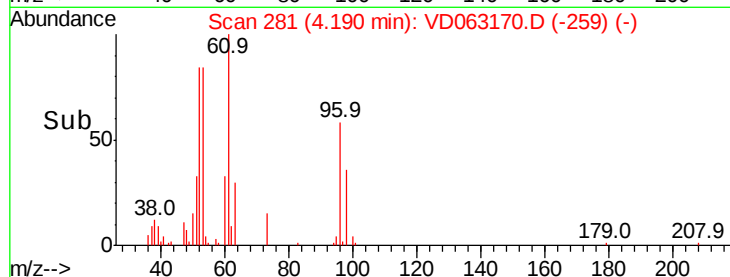
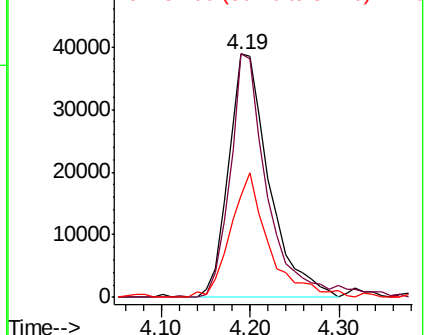
53 100

52 99.9 72.3 108.5

51 41.5 38.0 57.0



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: 107.754 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063170.D

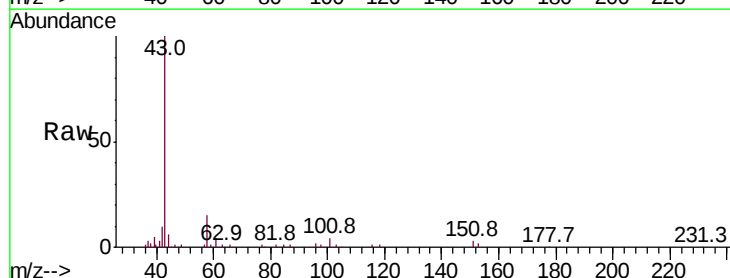
Acq: 22 Jul 2019 12:04

Tgt Ion: 43 Resp: 213158

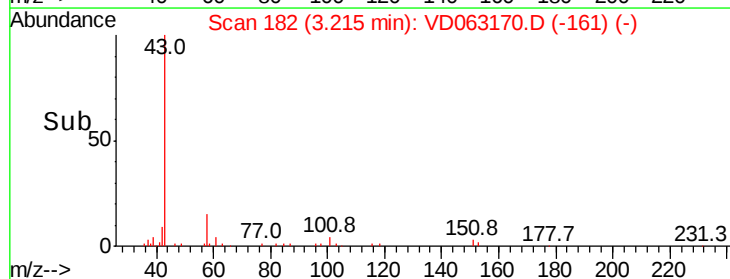
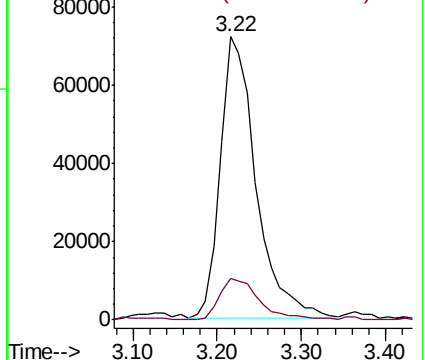
Ion Ratio Lower Upper

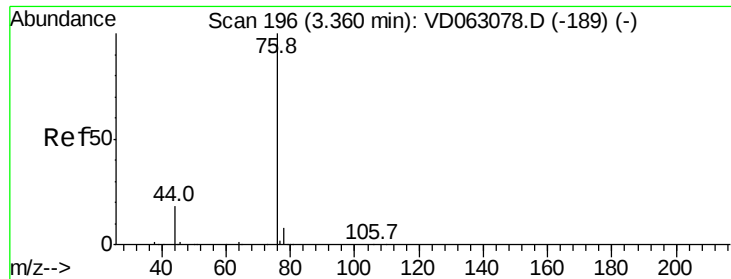
43 100

58 14.8 13.0 19.4



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

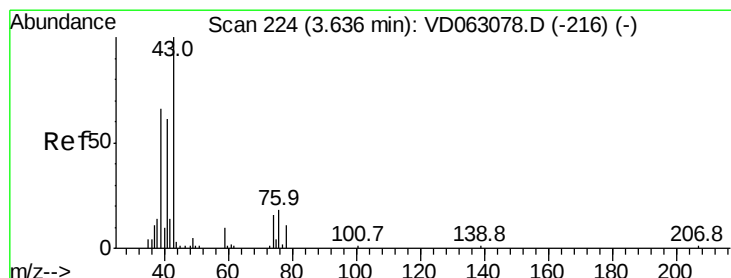
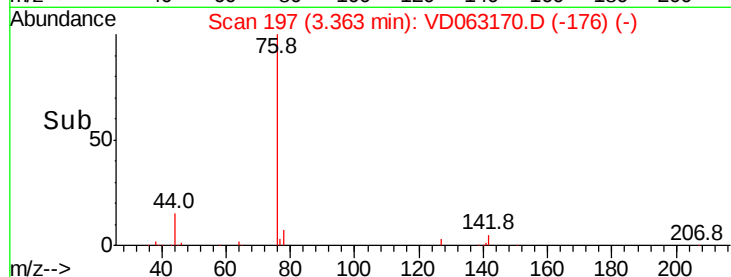
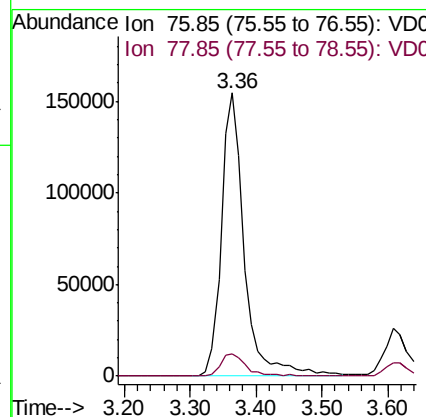
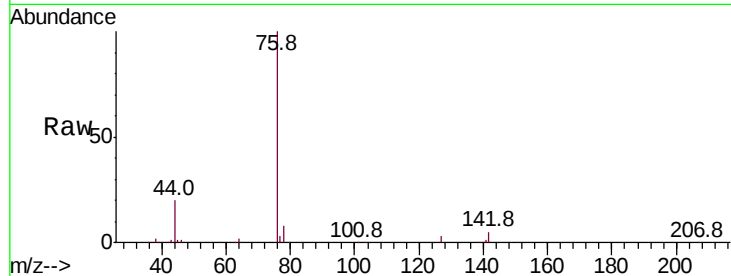




#17
Carbon Disulfide
Concen: 22.370 ug/l
RT: 3.36 min Scan# 197
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

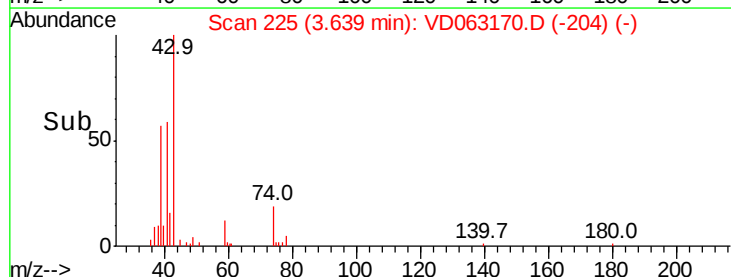
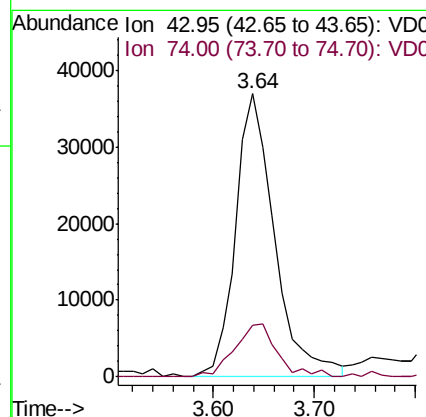
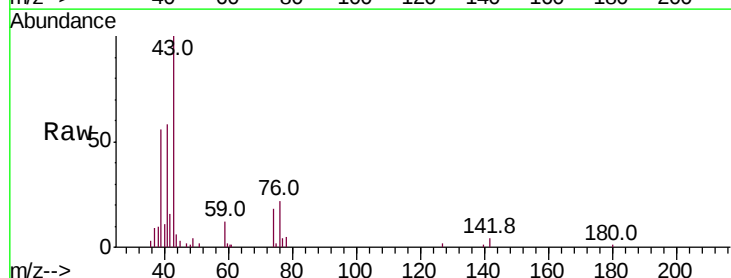
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

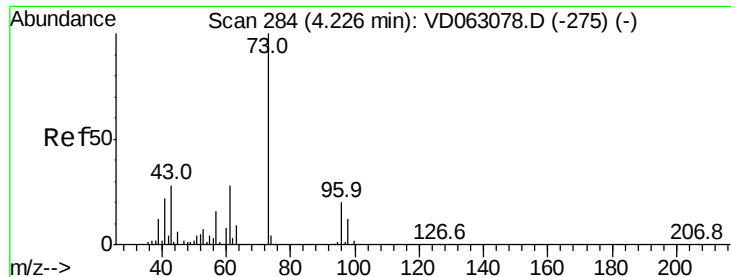
Tot Ion: 76 Resp: 372436
Ion Ratio Lower Upper
76 100
78 7.8 6.7 10.1



#18
Methyl Acetate
Concen: 36.262 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 43 Resp: 99135
Ion Ratio Lower Upper
43 100
74 18.5 12.5 18.7

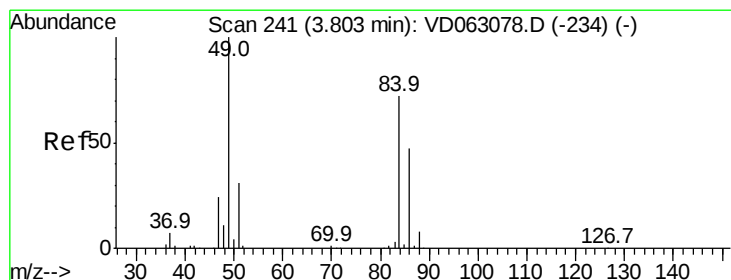
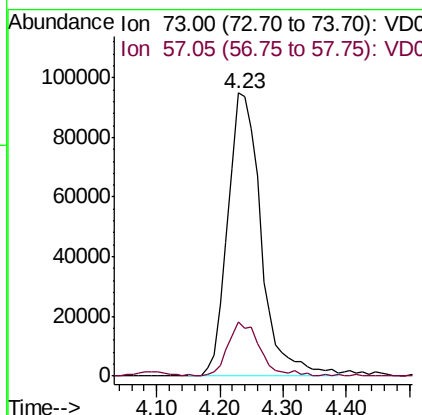
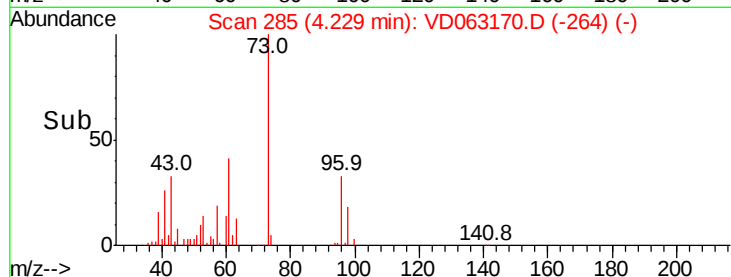
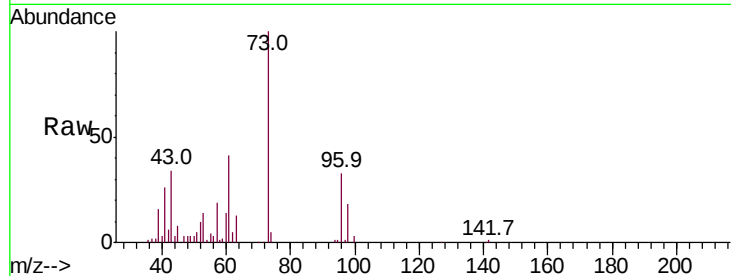




#19
Methvl tert-butvl Ether
Concen: 23.659 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

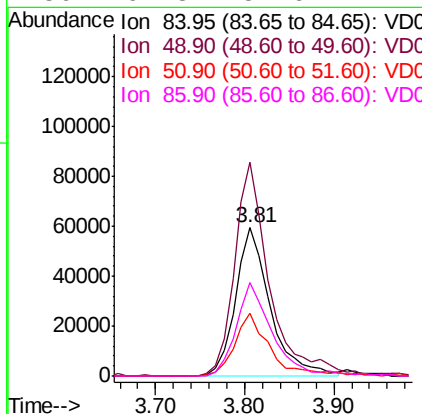
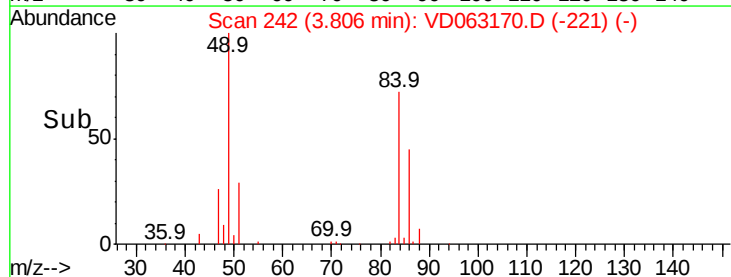
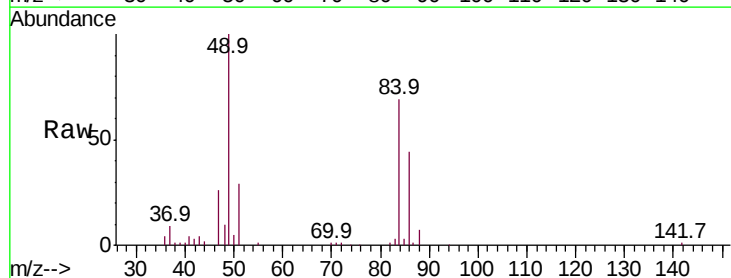
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

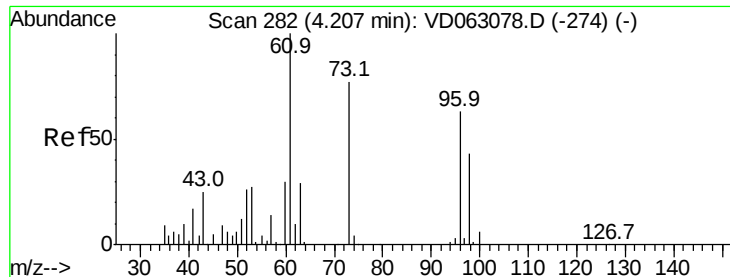
Tot Ion: 73 Resp: 347387
Ion Ratio Lower Upper
73 100
57 19.2 13.1 19.7



#20
Methylene Chloride
Concen: 21.477 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 84 Resp: 160507
Ion Ratio Lower Upper
84 100
49 144.2 110.5 165.7
51 42.2 34.6 51.8
86 62.8 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 22.417 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

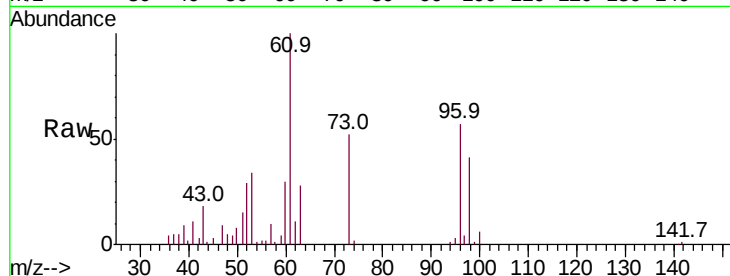
Tot Ion: 96 Resp: 144749

Ion Ratio Lower Upper

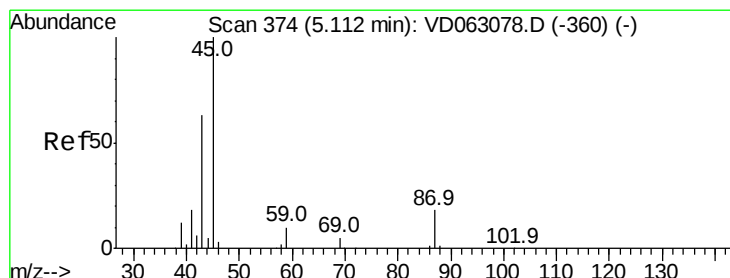
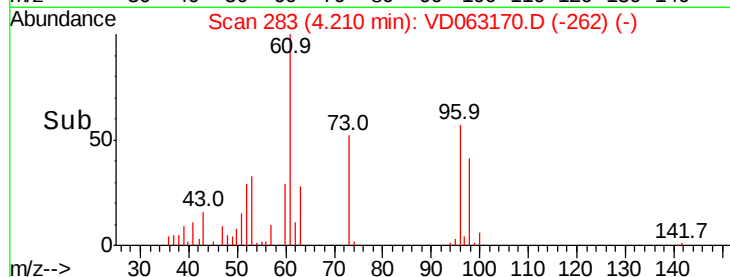
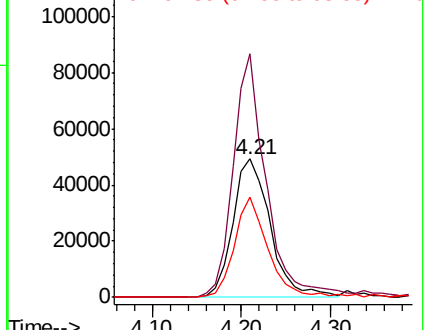
96 100

61 176.4 128.0 192.0

98 72.6 55.2 82.8



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



#22

Diisopropyl ether

Concen: 23.791 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Tgt Ion: 45 Resp: 472857

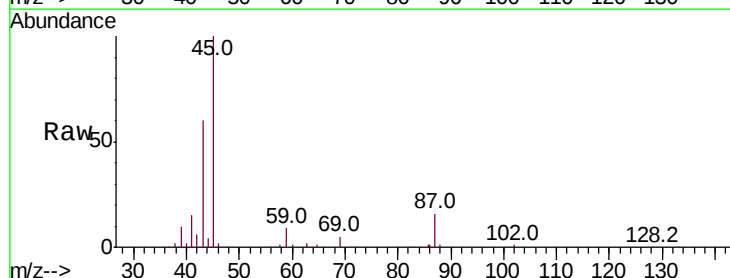
Ion Ratio Lower Upper

45 100

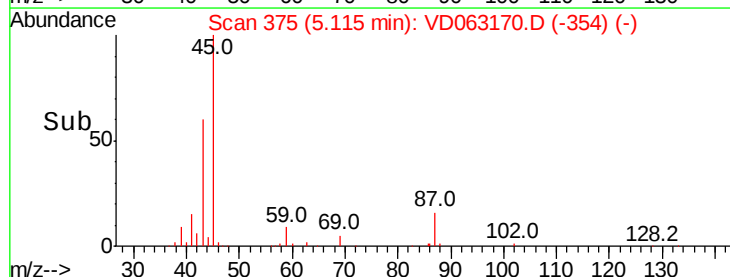
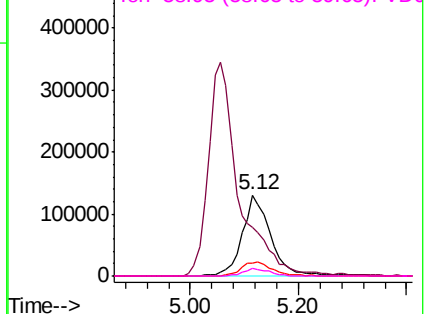
43 60.4 50.5 75.7

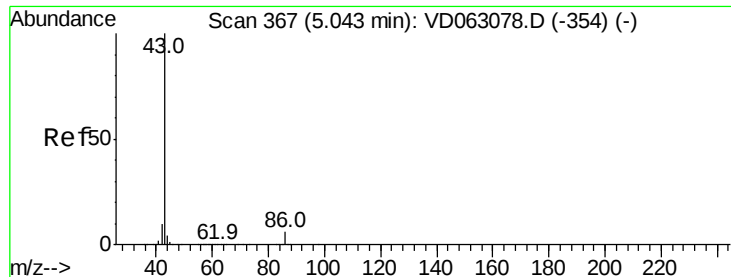
87 15.6 15.1 22.7

59 9.2 7.6 11.4



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 115.171 ug/l

RT: 5.06 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

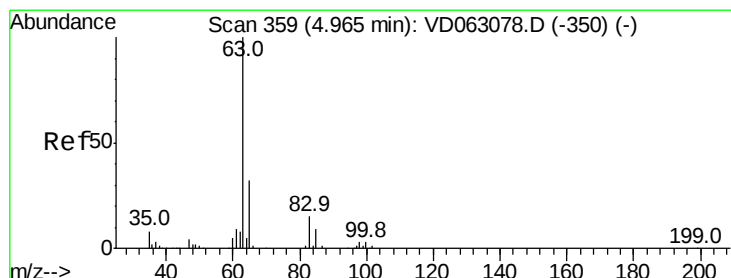
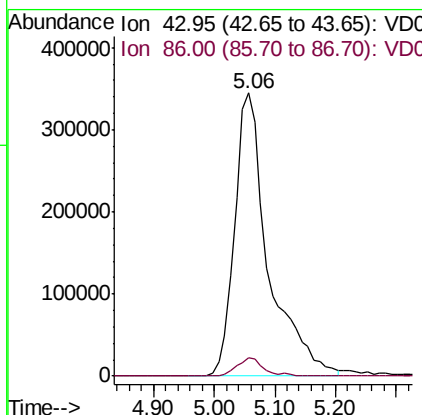
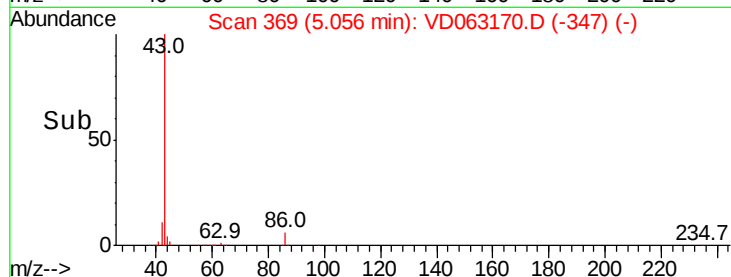
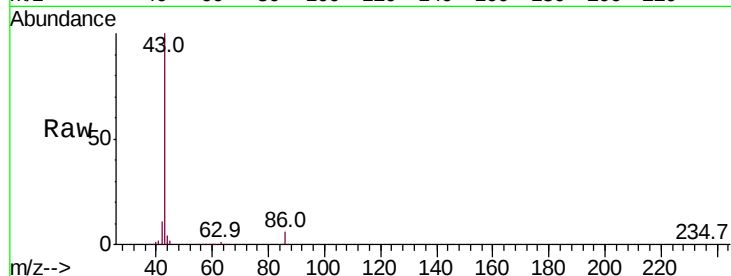
VD0722SBS01

Tot Ion: 43 Resp: 1335485

Ion Ratio Lower Upper

43 100

86 6.5 5.0 7.6



#24

1,1-Dichloroethane

Concen: 24.345 ug/l

RT: 4.98 min Scan# 361

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

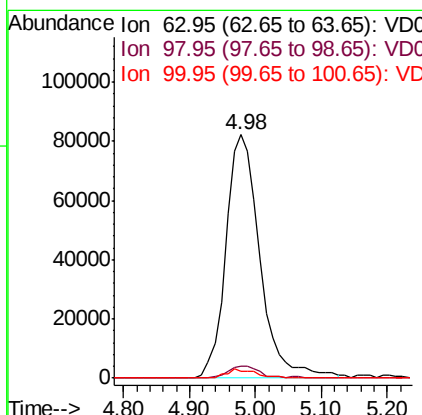
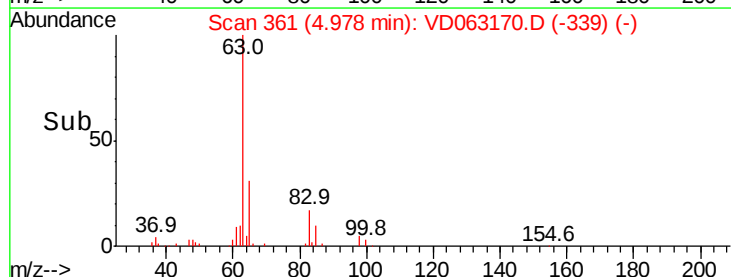
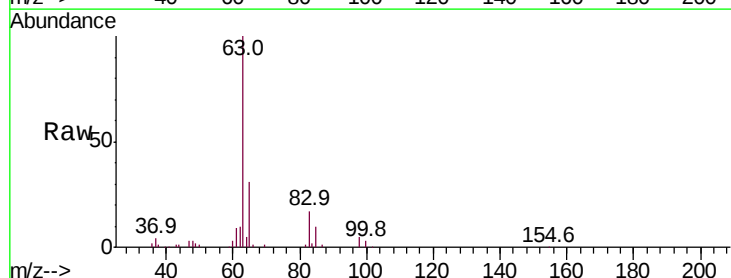
Tgt Ion: 63 Resp: 298060

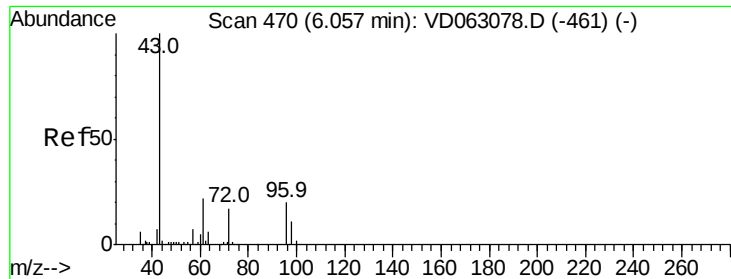
Ion Ratio Lower Upper

63 100

98 5.1 1.7 5.1#

100 3.0 1.5 4.5





#25

2-Butanone

Concen: 118.186 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

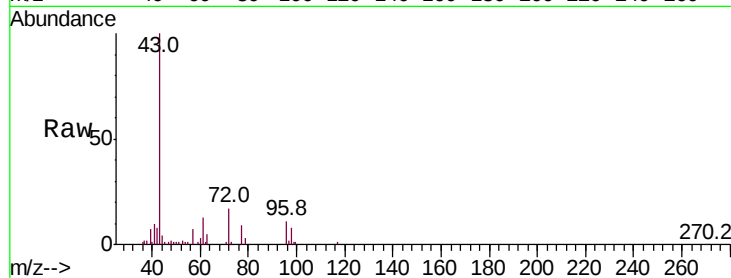
VD0722SBS01

Tot Ion: 43 Resp: 223255

Ion Ratio Lower Upper

43 100

72 17.0 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.08

80000

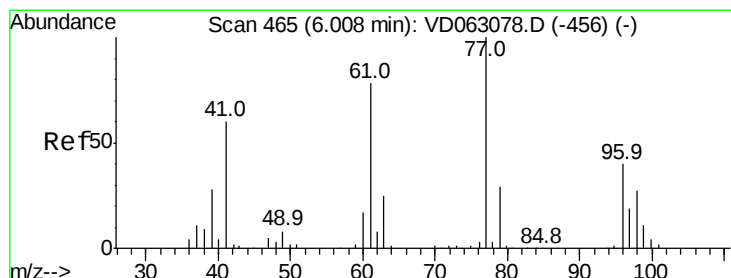
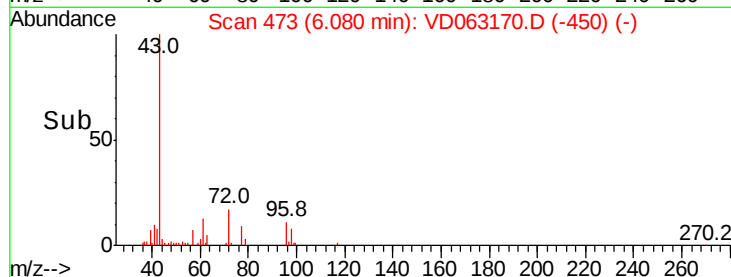
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 22.184 ug/l

RT: 6.02 min Scan# 467

Delta R.T. 0.01 min

Lab File: VD063170.D

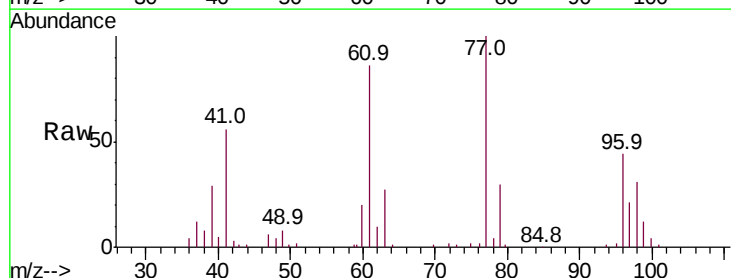
Acq: 22 Jul 2019 12:04

Tgt Ion: 77 Resp: 300592

Ion Ratio Lower Upper

77 100

97 21.5 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

6.02

100000

80000

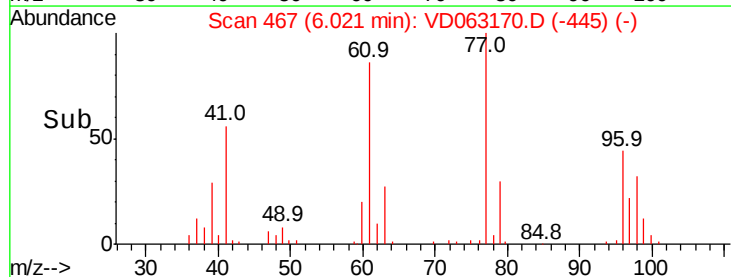
60000

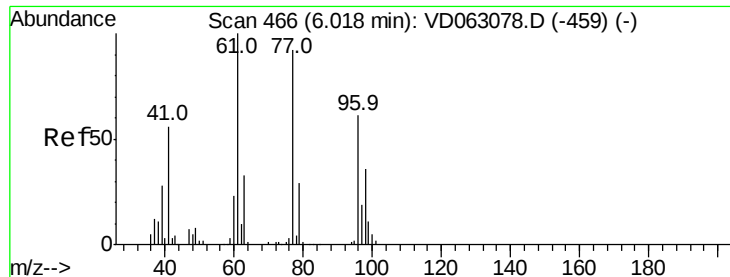
40000

20000

0

Time-->



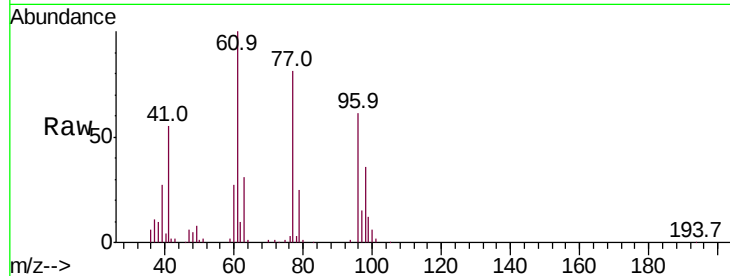


#27

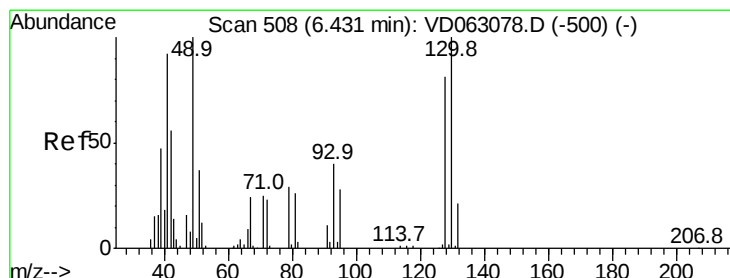
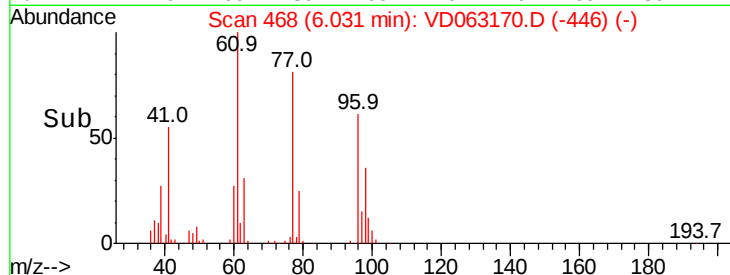
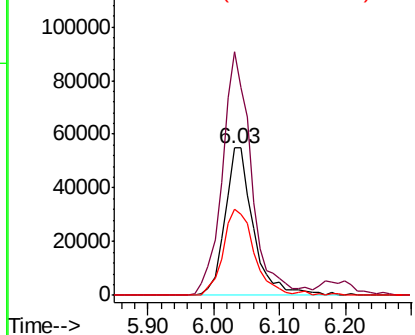
cis-1,2-Dichloroethene
Concen: 22.580 ug/l
RT: 6.03 min Scan# 468
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

Tot Ion: 96 Resp: 165852
Ion Ratio Lower Upper
96 100
61 165.3 0.0 329.6
98 58.7 0.0 118.4



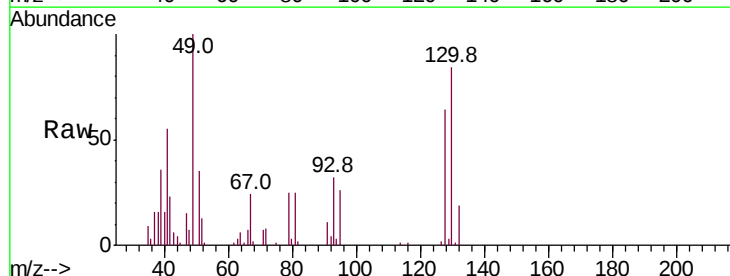
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



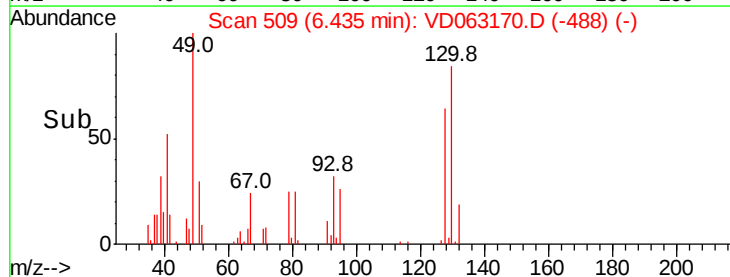
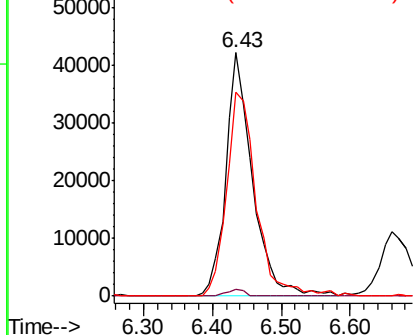
#28

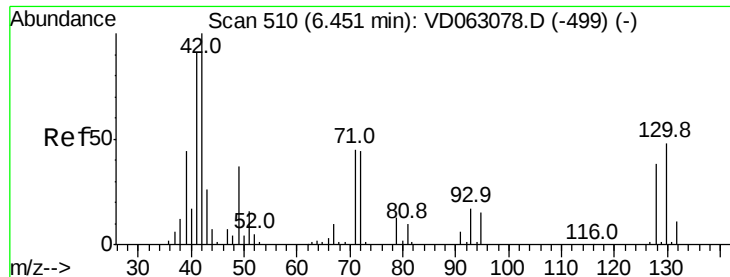
Bromochloromethane
Concen: 25.411 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 49 Resp: 112867
Ion Ratio Lower Upper
49 100
129 2.6 0.0 3.6
130 83.6 80.3 120.5



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





#29

Tetrahydrofuran

Concen: 113.899 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

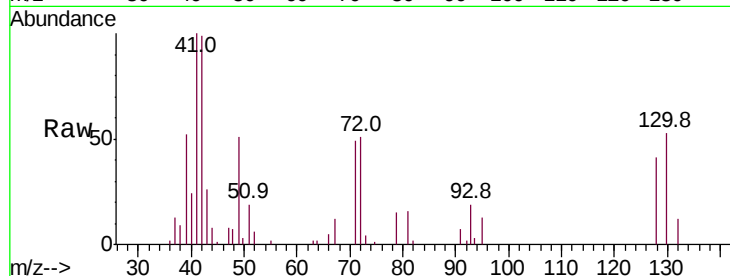
Tot Ion: 42 Resp: 97532

Ion Ratio Lower Upper

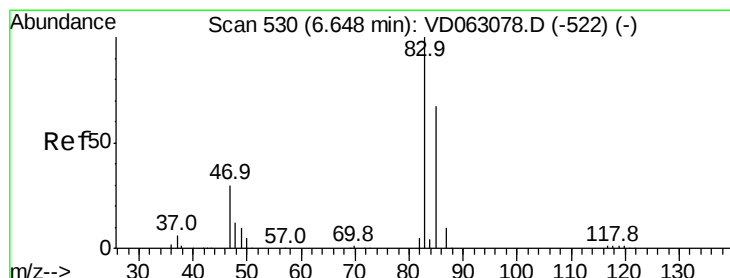
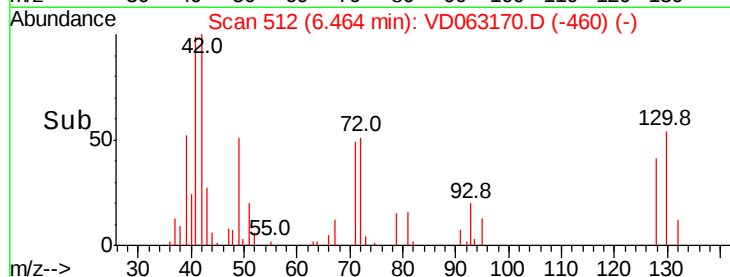
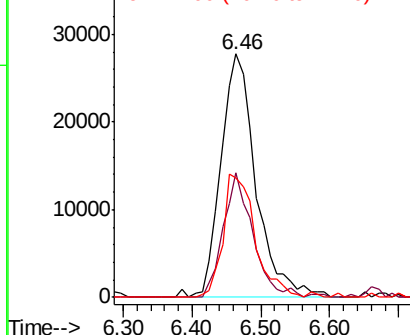
42 100

72 42.9 33.7 50.5

71 46.3 34.2 51.2



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: 22.880 ug/l

RT: 6.67 min Scan# 533

Delta R.T. 0.02 min

Lab File: VD063170.D

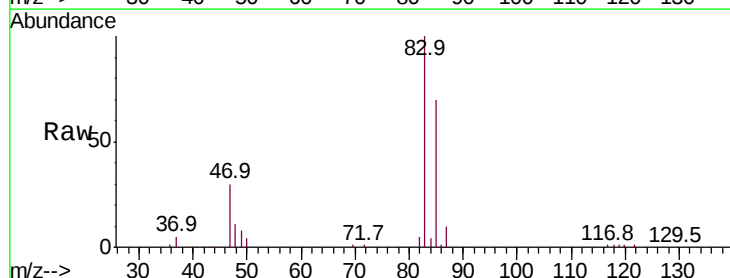
Acq: 22 Jul 2019 12:04

Tgt Ion: 83 Resp: 344982

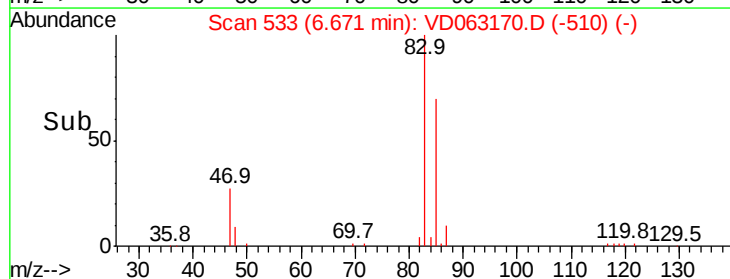
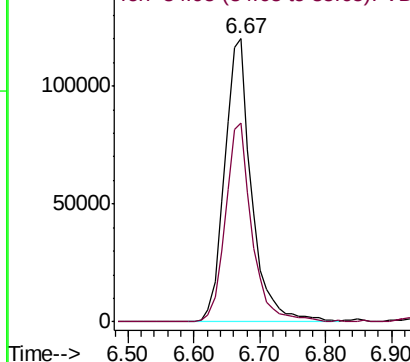
Ion Ratio Lower Upper

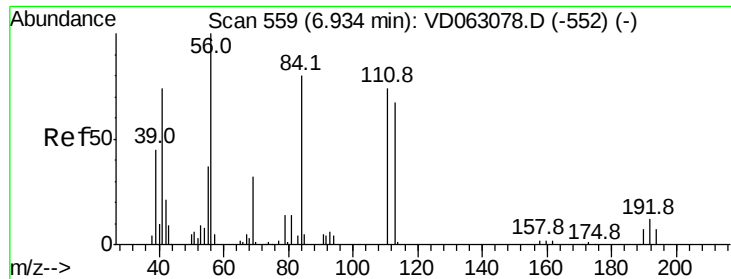
83 100

85 70.3 53.8 80.8



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

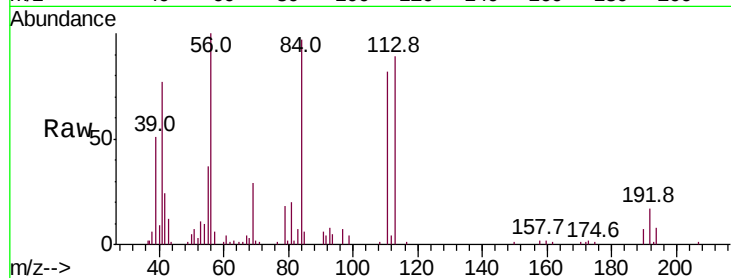




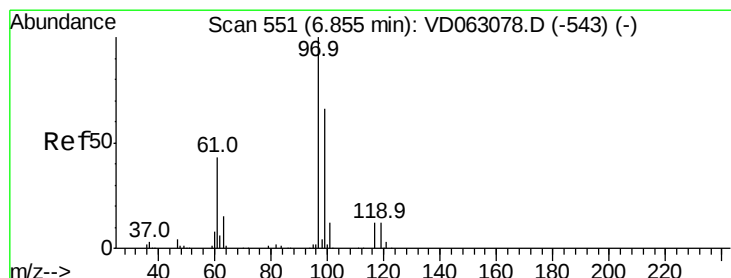
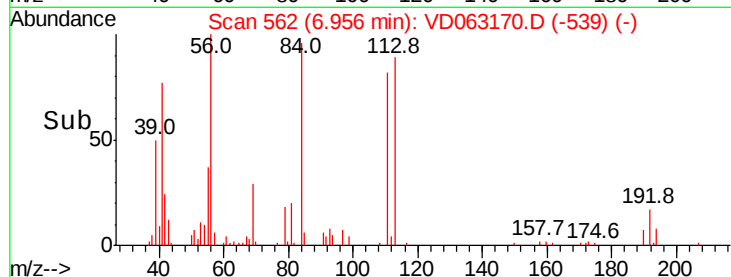
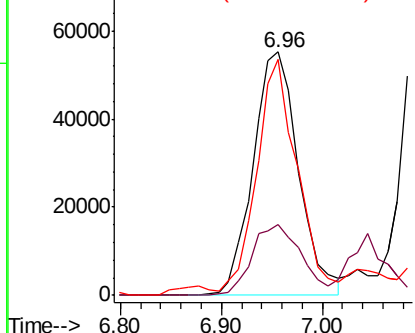
#31
Cyclohexane
Concen: 22.206 ug/l
RT: 6.96 min Scan# 562
Delta R.T. 0.02 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

Tot Ion: 56 Resp: 173141
Ion Ratio Lower Upper
56 100
69 29.3 25.3 37.9
84 96.7 64.2 96.4#

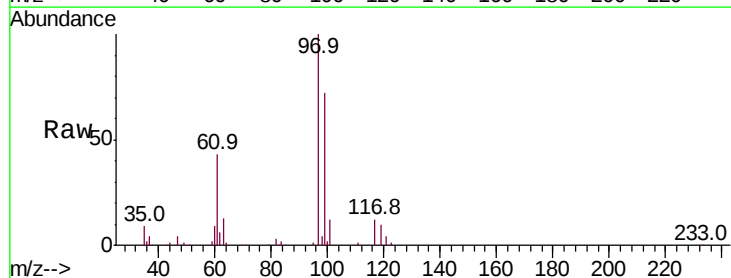


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

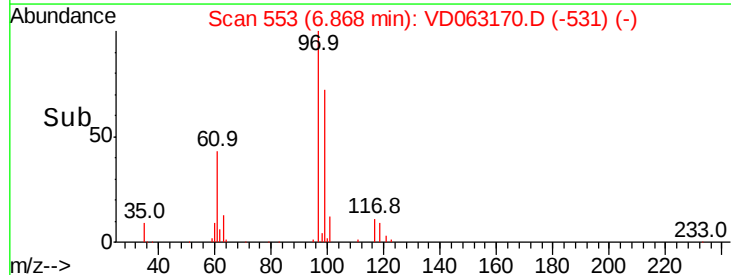
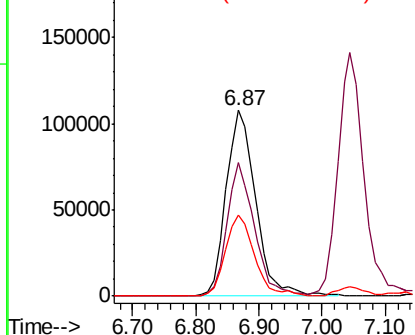


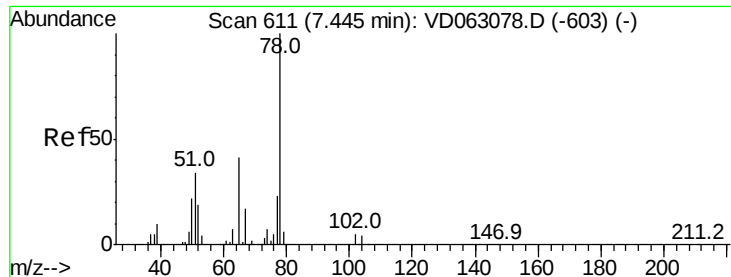
#32
1,1,1-Trichloroethane
Concen: 23.426 ug/l
RT: 6.87 min Scan# 553
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 97 Resp: 348300
Ion Ratio Lower Upper
97 100
99 71.9 52.9 79.3
61 43.5 34.4 51.6



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

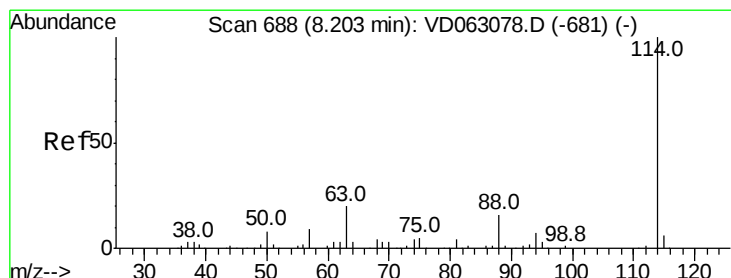
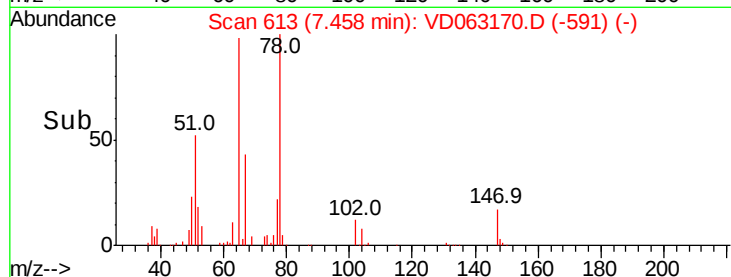
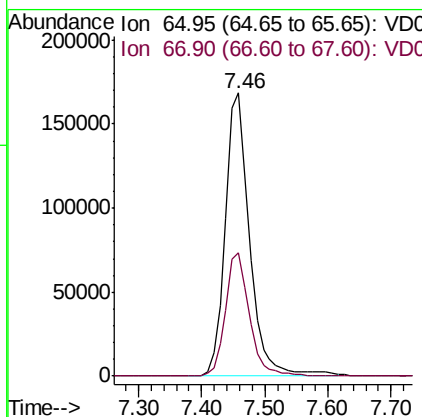
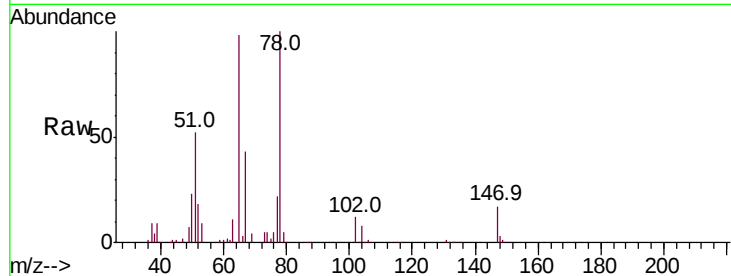




#33
 1,2-Dichloroethane-d4
 Concen: 54.917 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

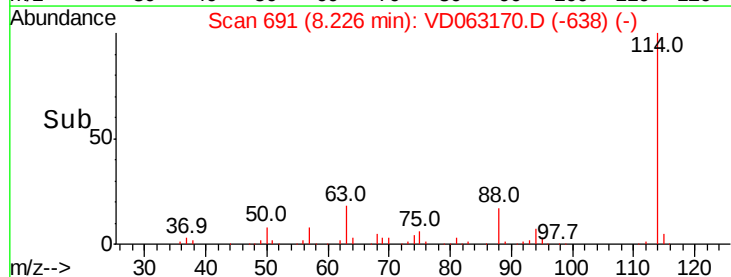
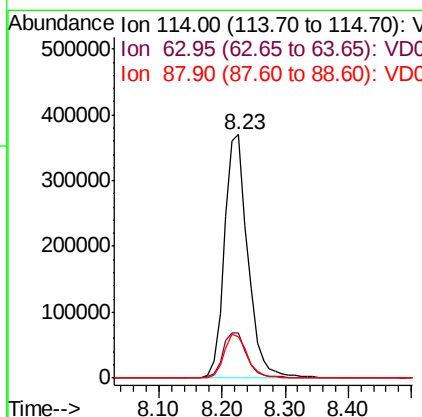
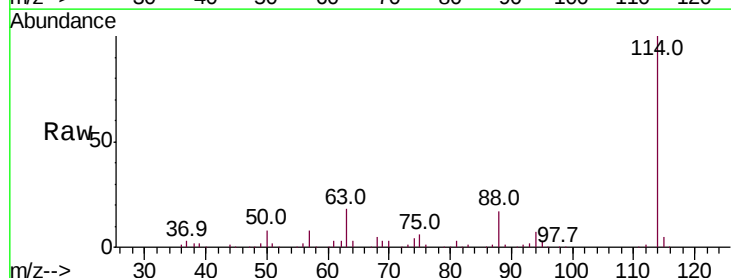
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

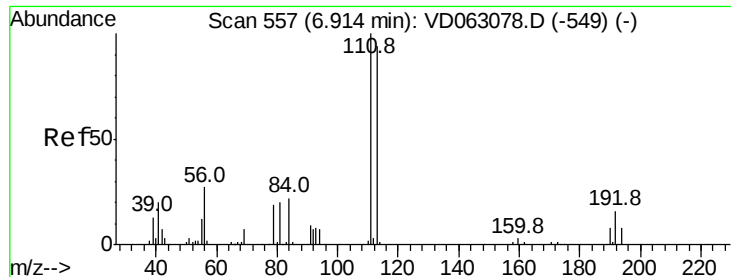
Tot Ion: 65 Resp: 449785
 Ion Ratio Lower Upper
 65 100
 67 43.4 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 114 Resp: 948242
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 40.6
 88 17.2 0.0 32.6

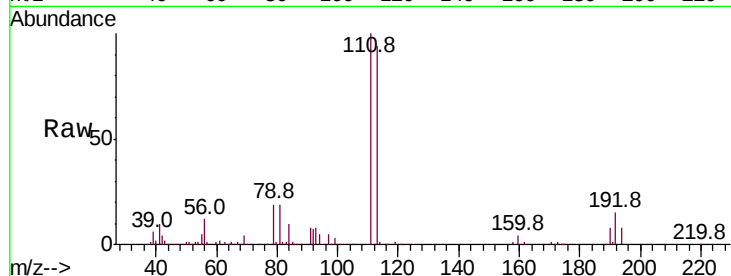




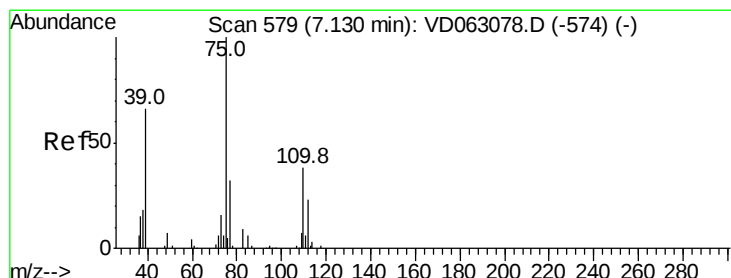
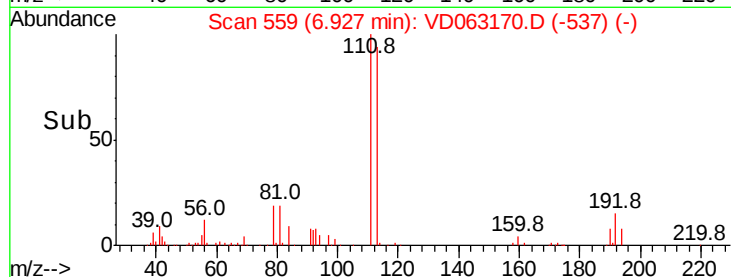
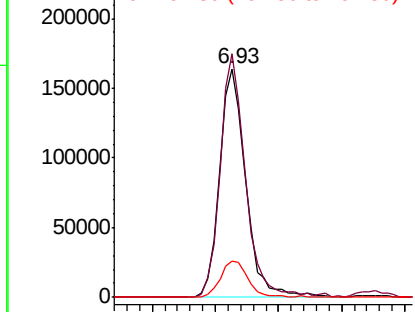
#35
 Dibromofluoromethane
 Concen: 50.303 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	106.4	84.8	127.2
192	15.7	13.4	20.0

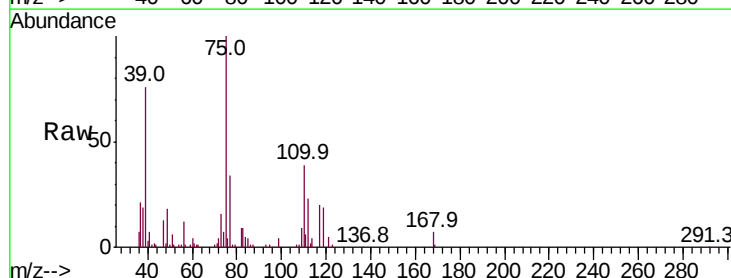


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

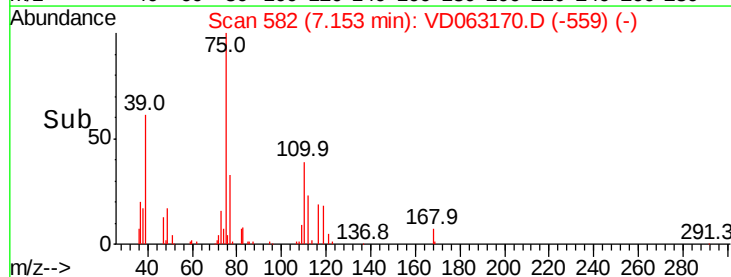
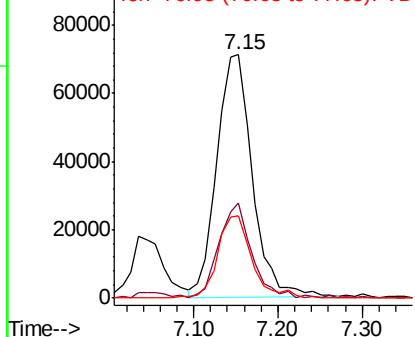


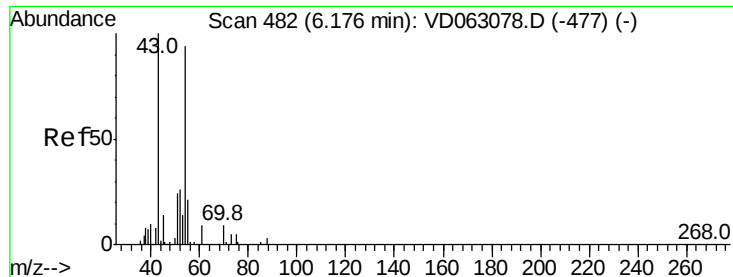
#36
 1,1-Dichloropropene
 Concen: 19.600 ug/l
 RT: 7.15 min Scan# 582
 Delta R.T. 0.02 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.1	18.9	56.5
77	33.9	25.2	37.8



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

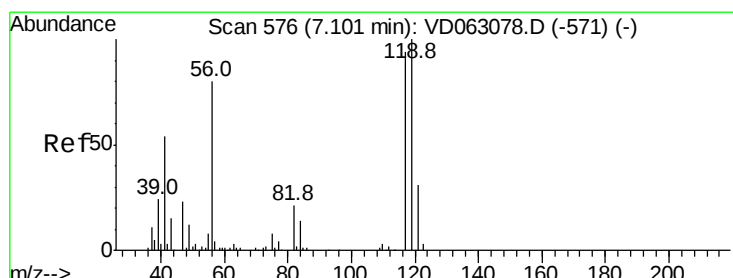
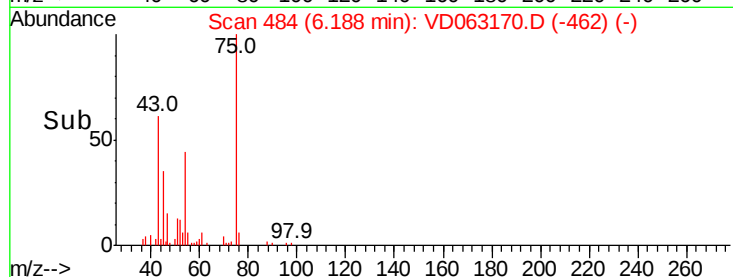
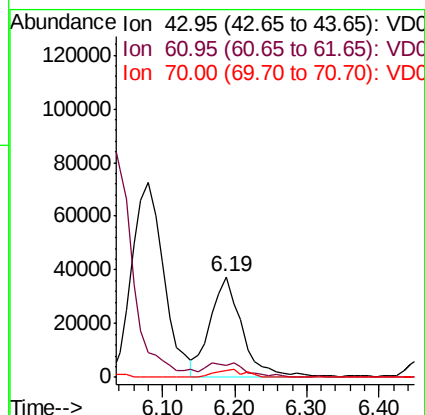
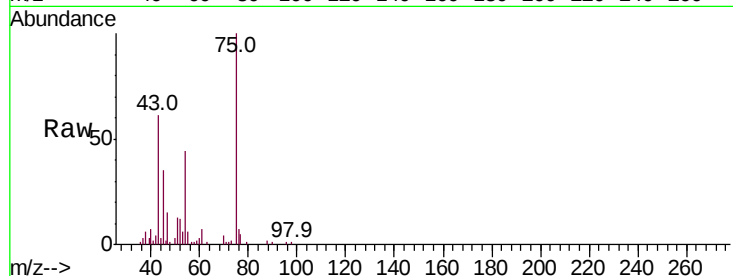




#37
Ethyl Acetate
Concen: 25.175 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

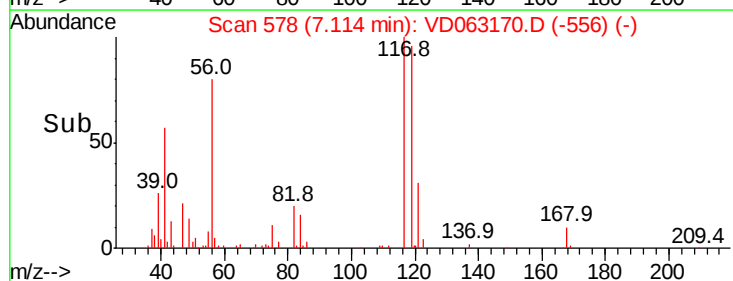
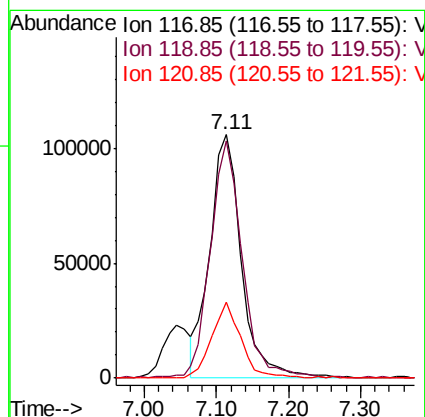
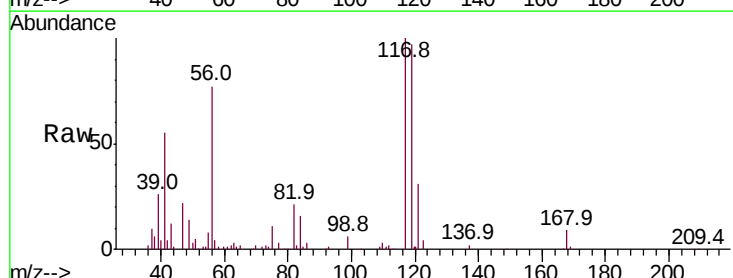
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

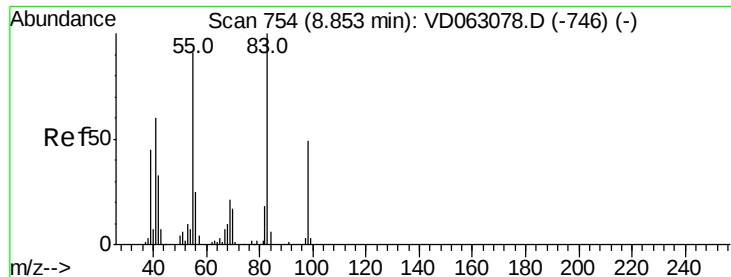
Tot Ion: 43 Resp: 114904
Ion Ratio Lower Upper
43 100
61 11.8 10.6 16.0
70 6.9 6.6 9.8



#38
Carbon Tetrachloride
Concen: 19.823 ug/l
RT: 7.11 min Scan# 578
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 117 Resp: 321228
Ion Ratio Lower Upper
117 100
119 97.4 80.0 120.0
121 31.4 25.0 37.4

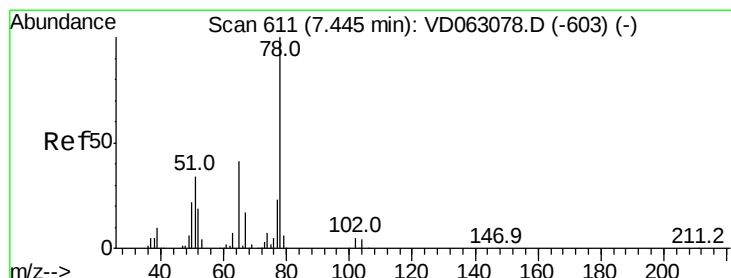
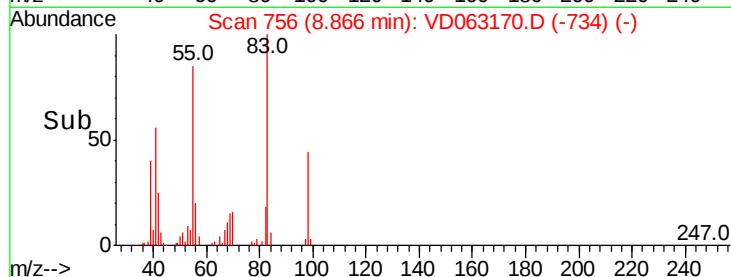
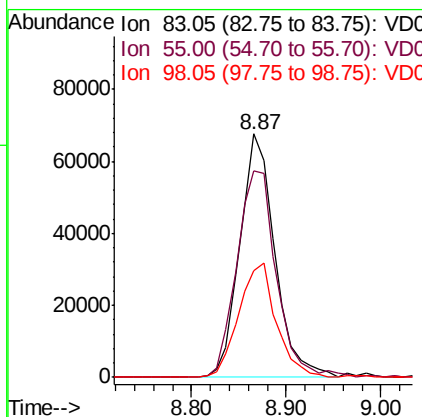
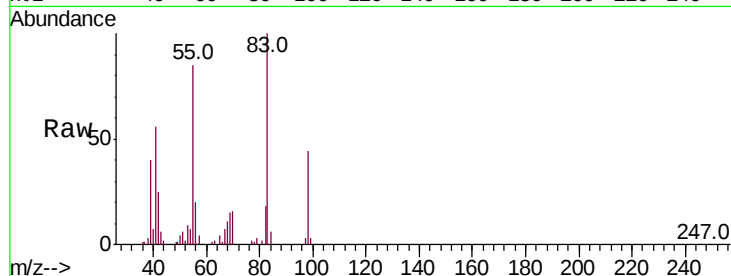




#39
Methylvlcyclohexane
Concen: 18.844 ug/l
RT: 8.87 min Scan# 756
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

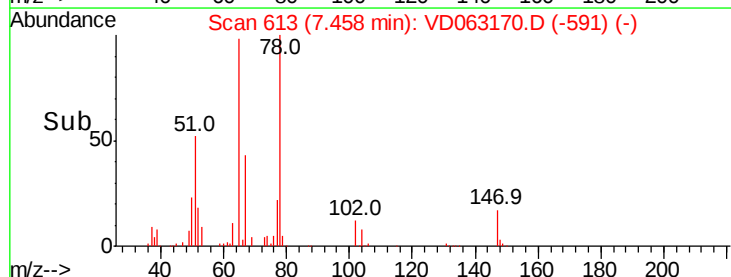
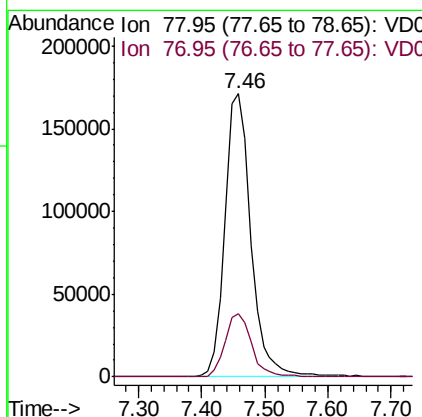
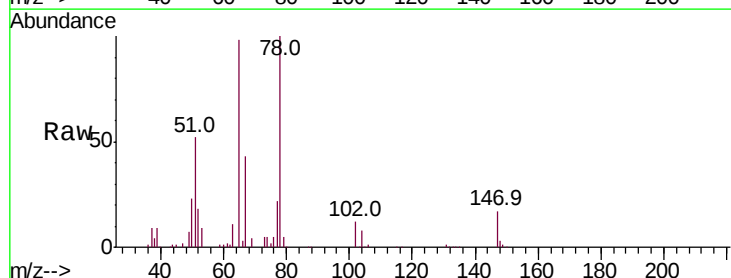
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

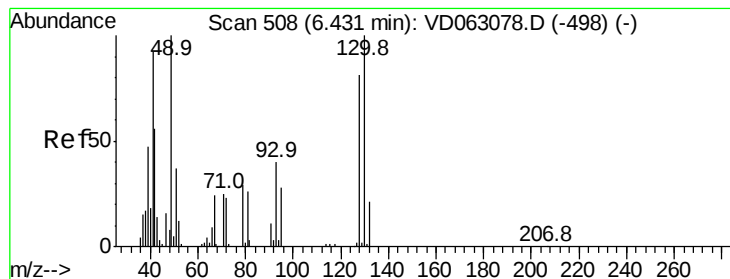
Tot Ion: 83 Resp: 173747
Ion Ratio Lower Upper
83 100
55 85.1 73.0 109.4
98 43.7 39.4 59.0



#40
Benzene
Concen: 21.804 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 78 Resp: 487016
Ion Ratio Lower Upper
78 100
77 22.2 18.1 27.1





#41

Methacrylonitrile

Concen: 20.805 ug/l

RT: 6.44 min Scan# 510

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

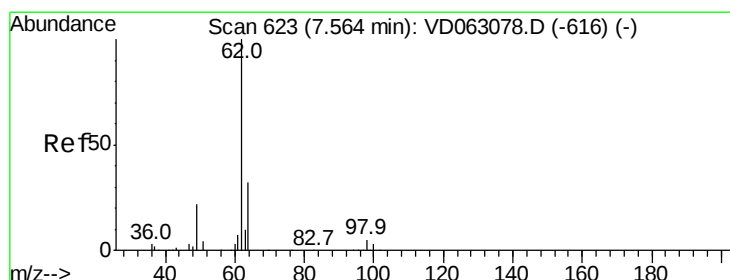
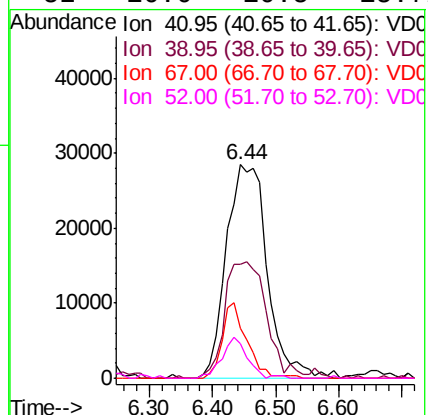
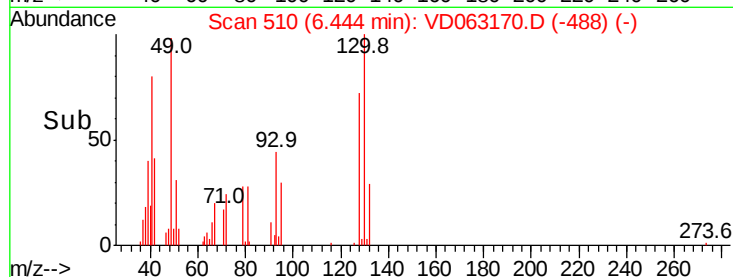
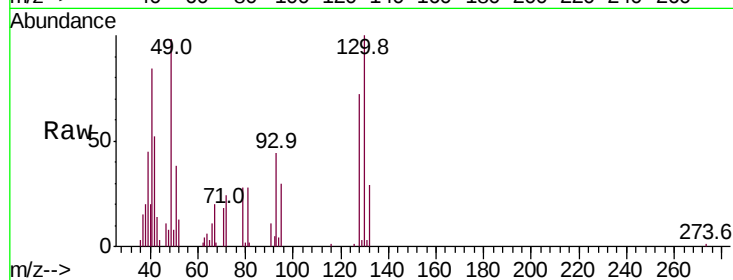
ClientSampleId :

VD0722SBS01

Tot Ion: 41 Resp: 128741

Ion Ratio Lower Upper

41	100		
39	53.6	41.0	61.6
67	23.2	21.3	31.9
52	16.0	10.5	15.7#



#42

1,2-Dichloroethane

Concen: 22.147 ug/l

RT: 7.59 min Scan# 626

Delta R.T. 0.02 min

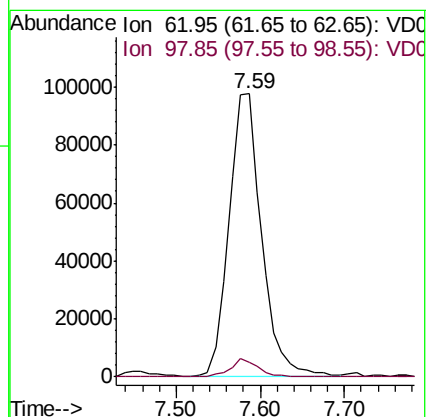
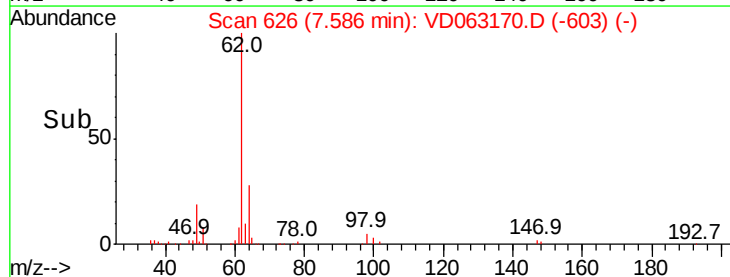
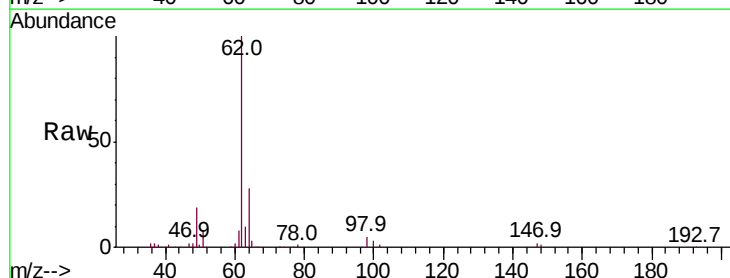
Lab File: VD063170.D

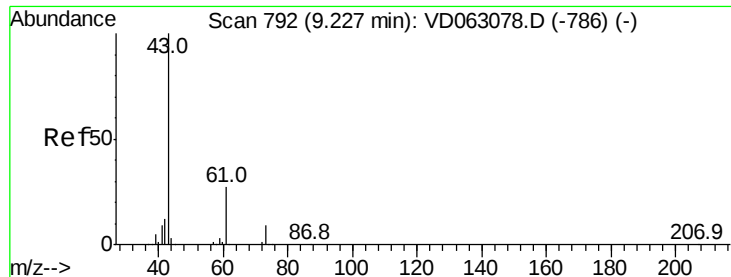
Acq: 22 Jul 2019 12:04

Tgt Ion: 62 Resp: 263546

Ion Ratio Lower Upper

62	100		
98	5.1	0.0	9.6





#43

Isopropyl Acetate

Concen: 22.297 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.02 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

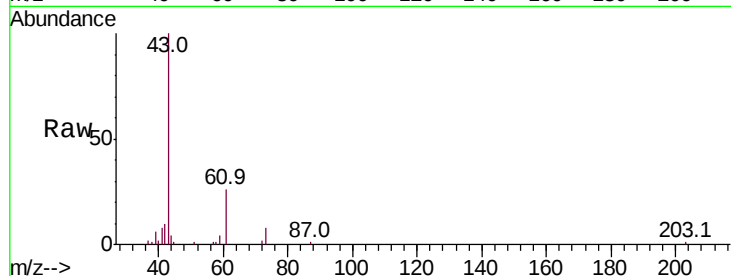
Tot Ion: 43 Resp: 145869

Ion Ratio Lower Upper

43 100

61 26.4 21.7 32.5

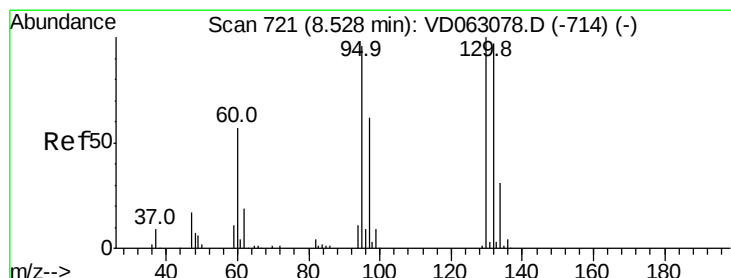
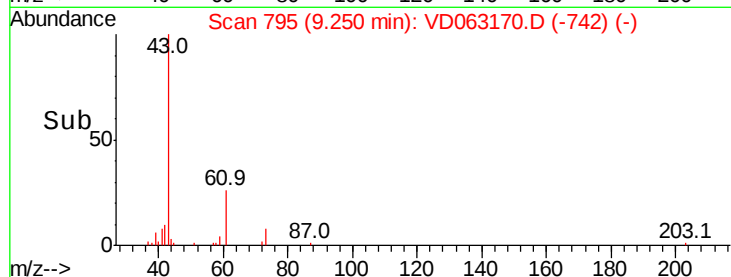
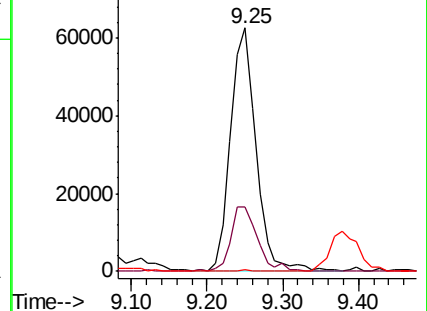
87 0.6 0.2 0.4#



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: 21.770 ug/l

RT: 8.54 min Scan# 723

Delta R.T. 0.01 min

Lab File: VD063170.D

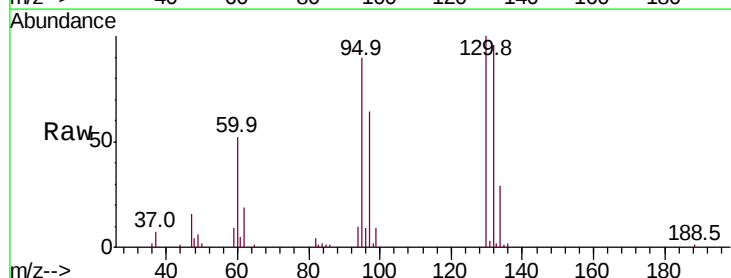
Acq: 22 Jul 2019 12:04

Tgt Ion:130 Resp: 187919

Ion Ratio Lower Upper

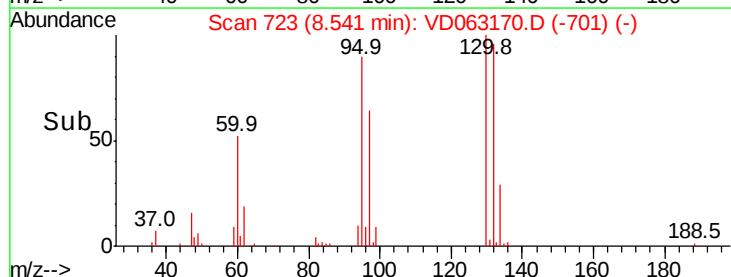
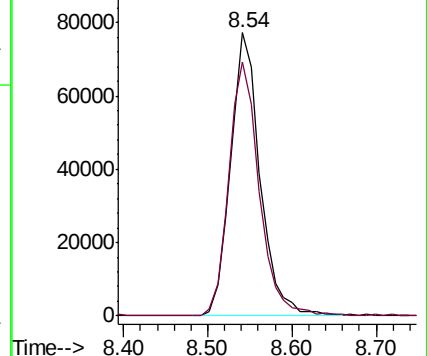
130 100

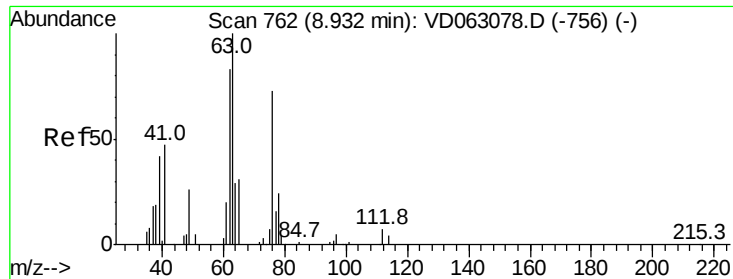
95 89.9 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.342 ug/l

RT: 8.94 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

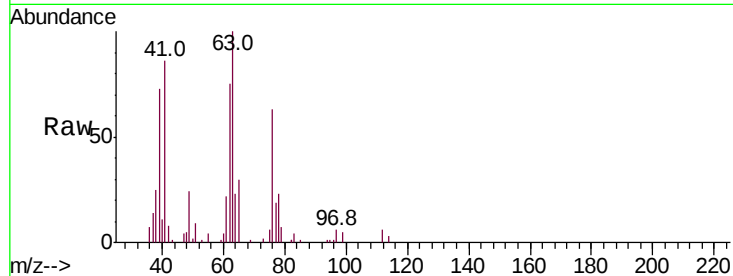
VD0722SBS01

Tot Ion: 63 Resp: 113282

Ion Ratio Lower Upper

63 100

65 30.4 26.3 39.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.94

50000

40000

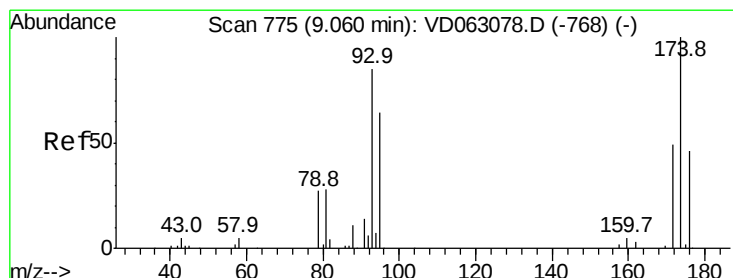
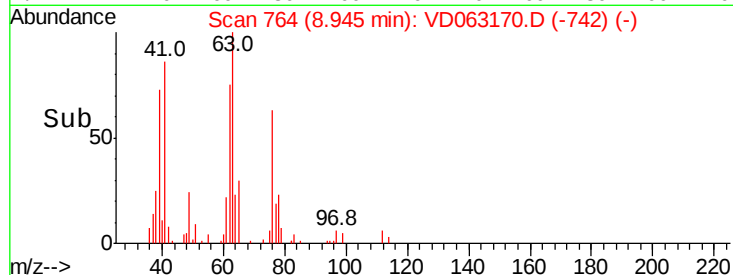
30000

20000

10000

0

Time--> 8.80 8.90 9.00 9.10



#46

Dibromomethane

Concen: 21.679 ug/l

RT: 9.06 min Scan# 776

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

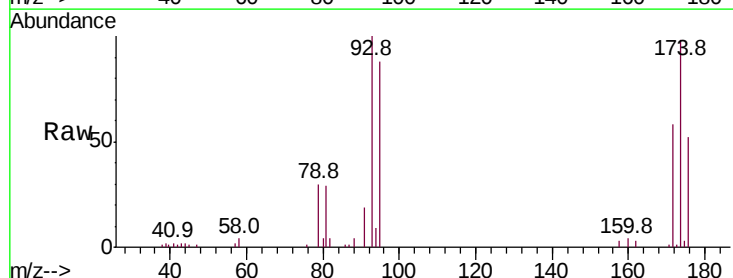
Tgt Ion: 93 Resp: 103746

Ion Ratio Lower Upper

93 100

95 88.3 59.7 89.5

174 98.1 93.9 140.9



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

60000

50000

40000

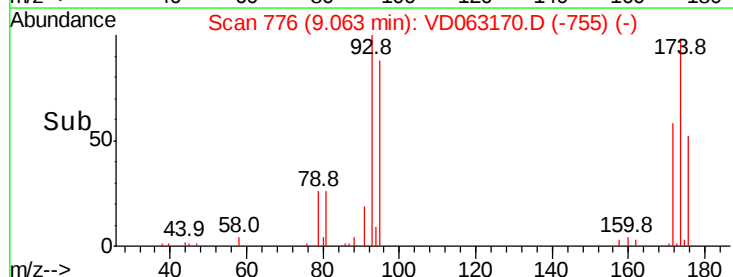
30000

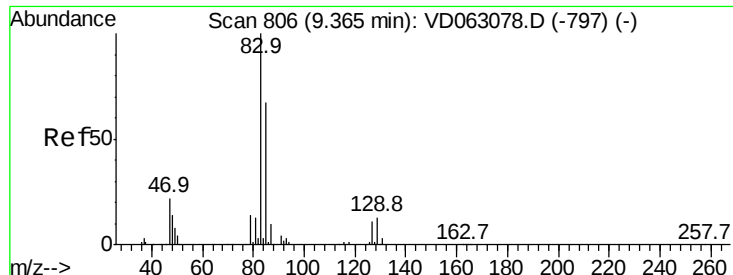
20000

10000

0

Time--> 9.00 9.10 9.20





#47

Bromodichloromethane

Concen: 20.190 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

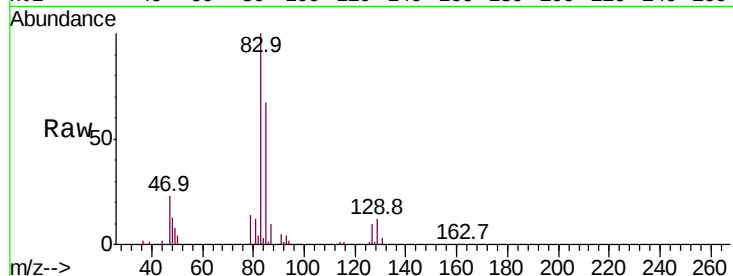
Tot Ion: 83 Resp: 252126

Ion Ratio Lower Upper

83 100

85 66.7 53.7 80.5

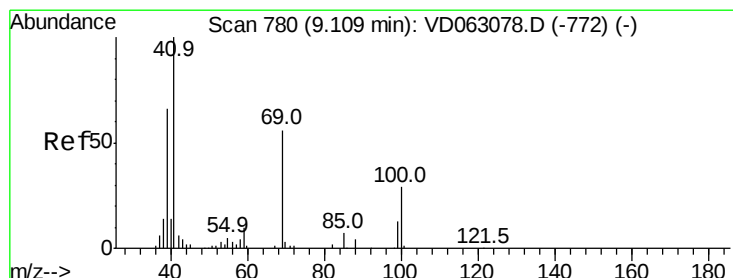
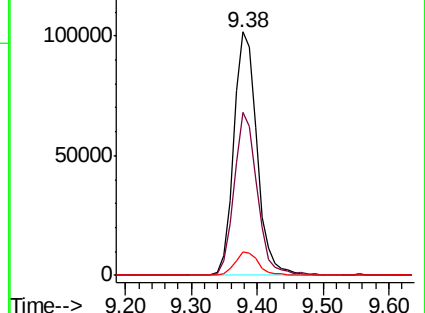
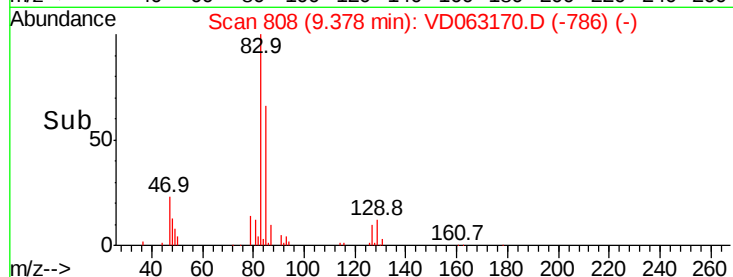
127 9.7 9.0 13.6



Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 21.470 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

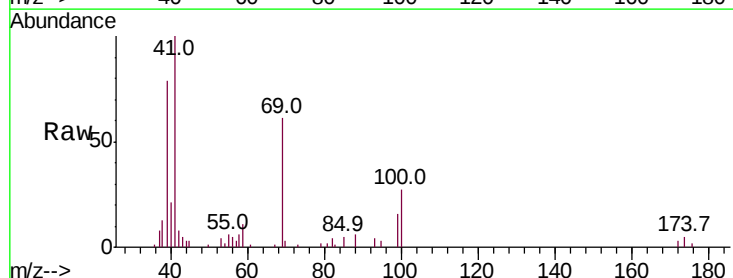
Tgt Ion: 41 Resp: 92238

Ion Ratio Lower Upper

41 100

69 60.8 44.3 66.5

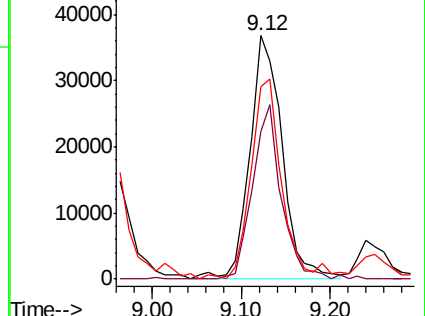
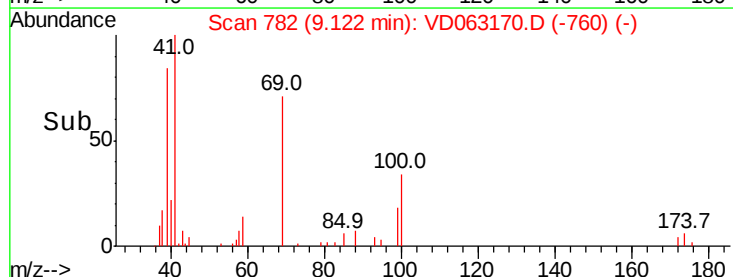
39 79.1 52.6 78.8#

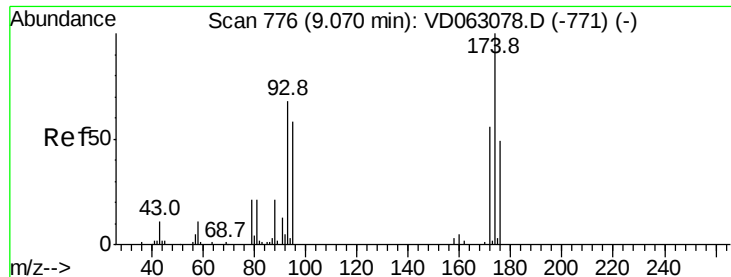


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

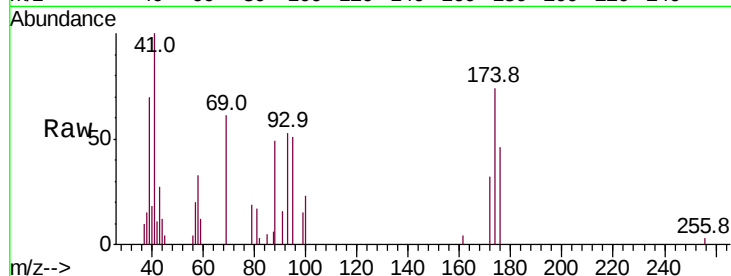




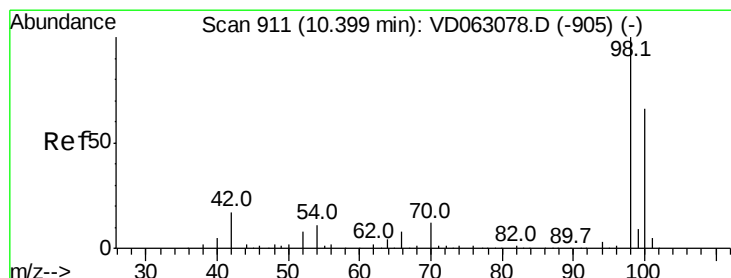
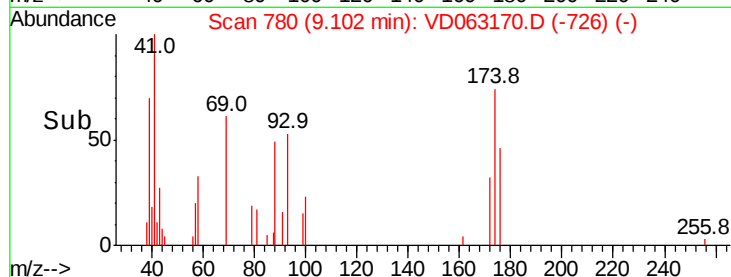
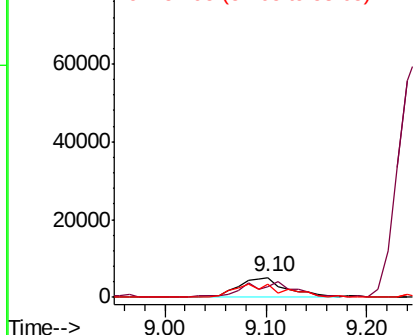
#49
1,4-Dioxane
Concen: 454.451 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.03 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

Tot Ion: 88 Resp: 16838
Ion Ratio Lower Upper
88 100
43 55.0 40.2 60.4
58 67.0 41.6 62.4#

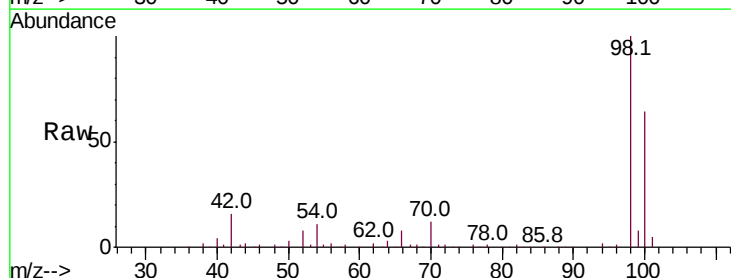


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

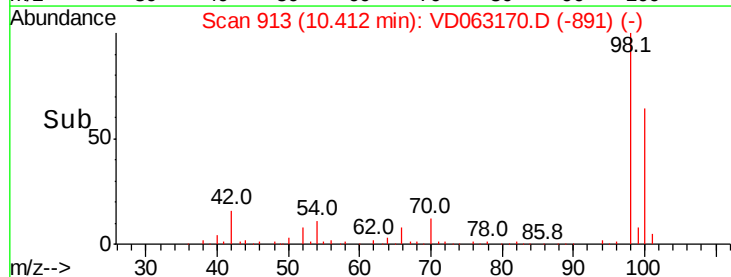
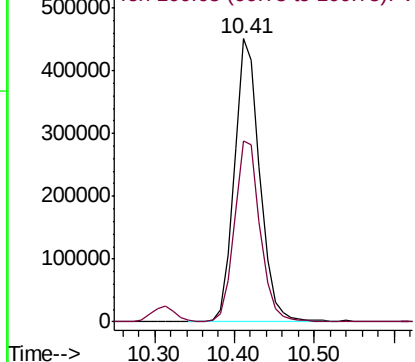


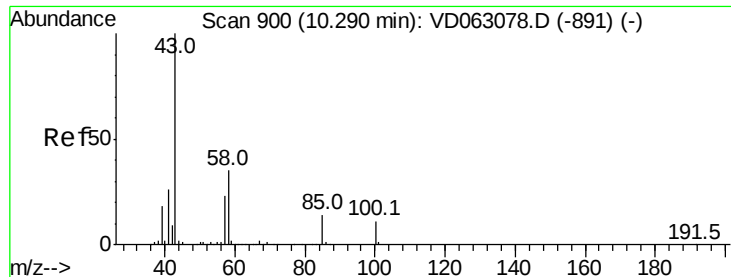
#50
Toluene-d8
Concen: 49.120 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 98 Resp: 996505
Ion Ratio Lower Upper
98 100
100 64.1 53.5 80.3



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

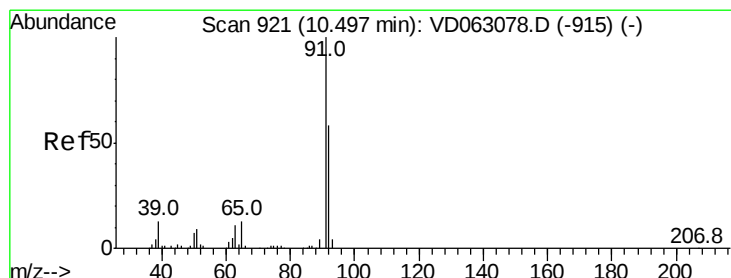
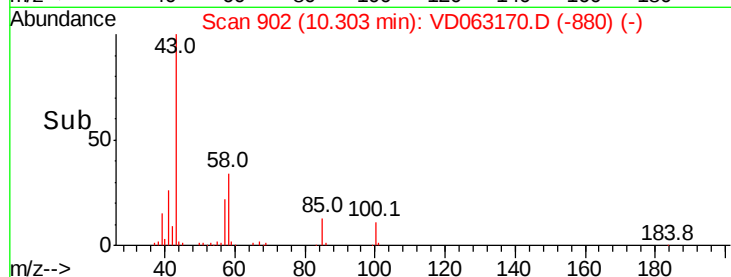
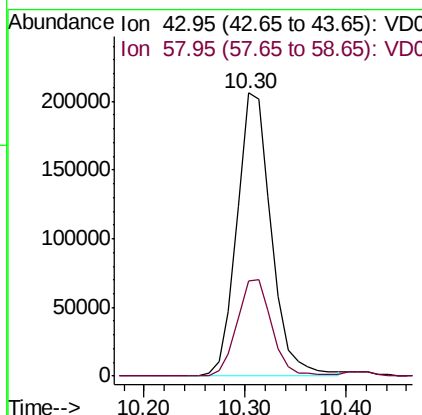
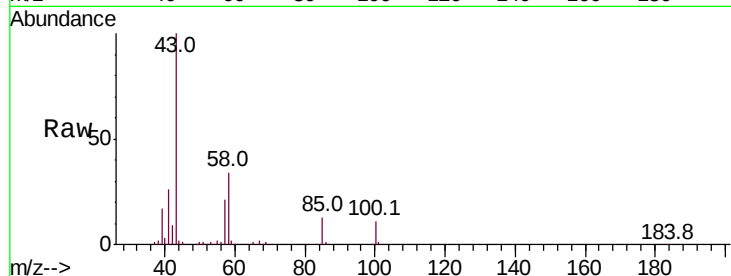




#51
4-Methyl-2-Pentanone
Concen: 112.293 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

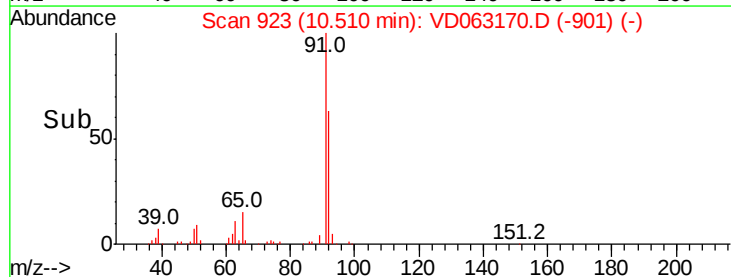
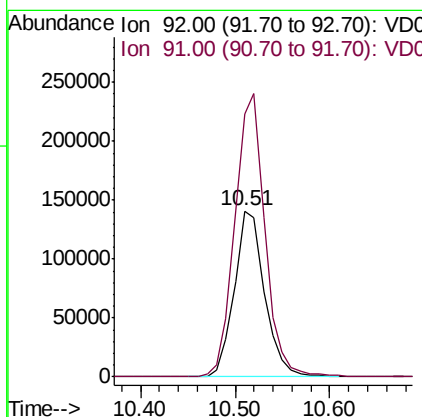
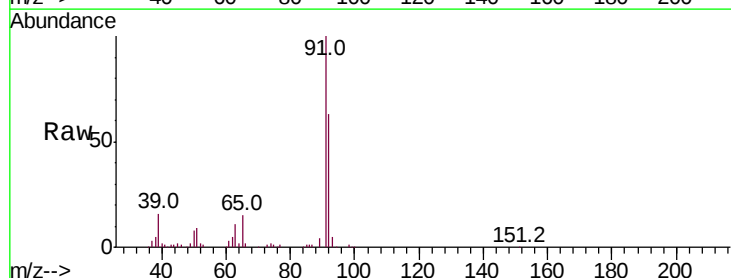
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

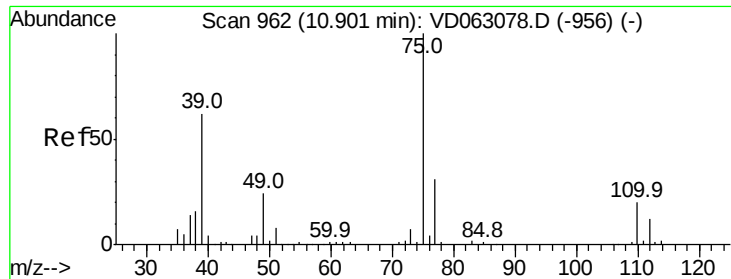
Tot Ion: 43 Resp: 487253
Ion Ratio Lower Upper
43 100
58 33.6 27.8 41.6



#52
Toluene
Concen: 20.921 ug/l
RT: 10.51 min Scan# 923
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 92 Resp: 312051
Ion Ratio Lower Upper
92 100
91 158.8 137.9 206.9

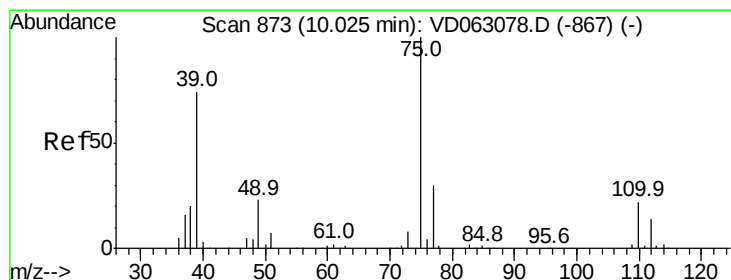
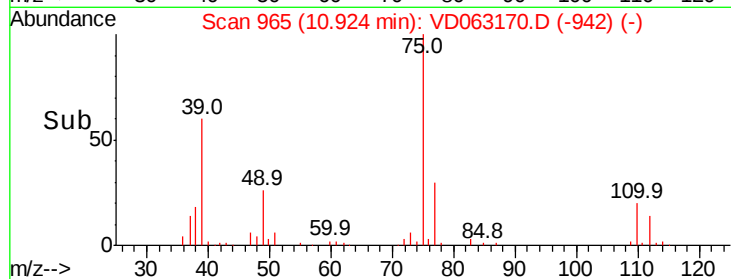
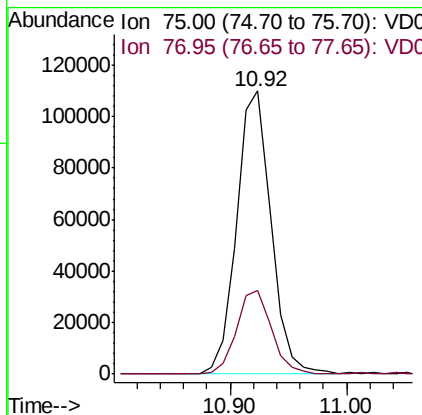
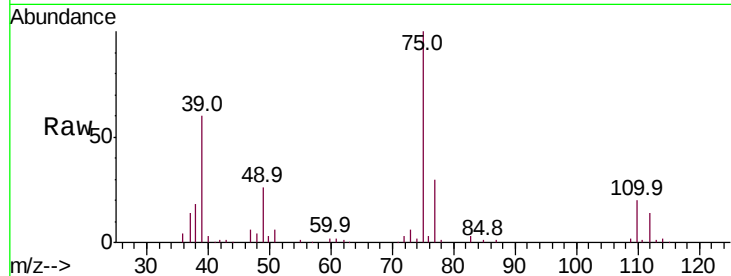




#53
 t-1,3-Dichloropropene
 Concen: 20.946 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. 0.02 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

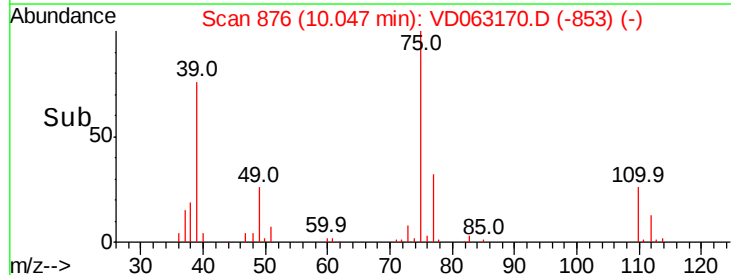
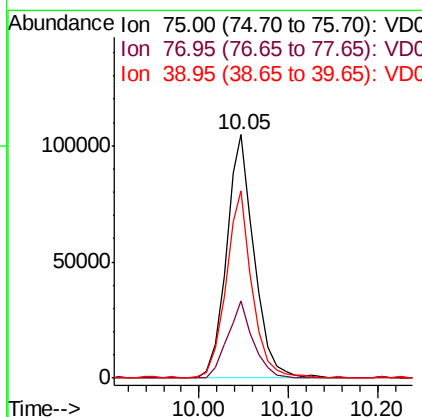
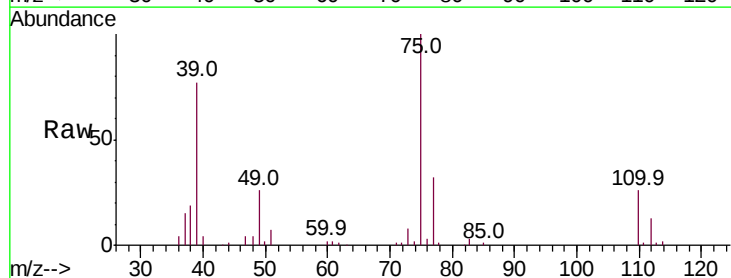
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

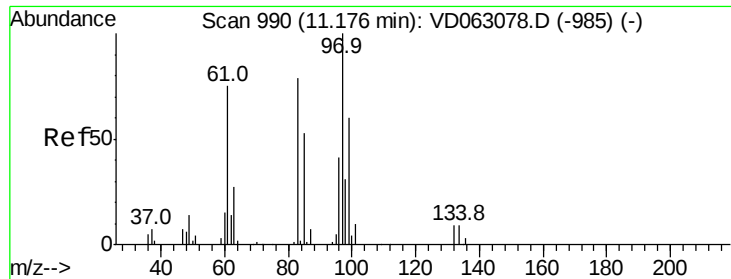
Tot Ion: 75 Resp: 224096
 Ion Ratio Lower Upper
 75 100
 77 29.8 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 20.500 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.02 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 75 Resp: 226785
 Ion Ratio Lower Upper
 75 100
 77 31.7 23.9 35.9
 39 76.8 59.4 89.0

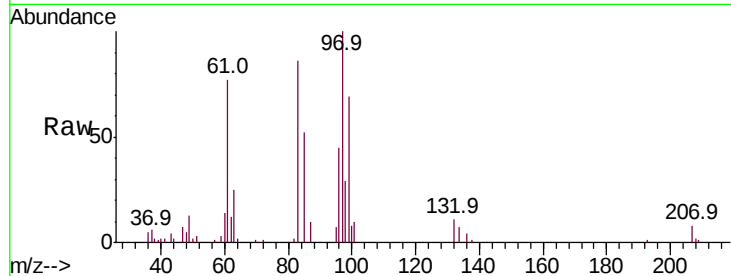




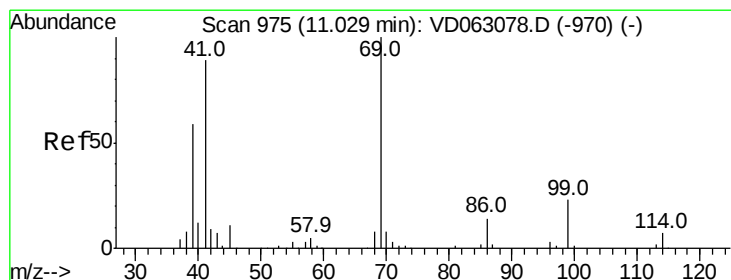
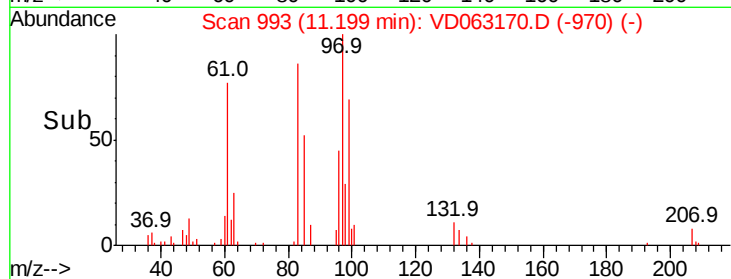
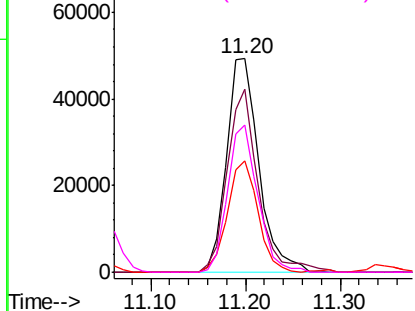
#55
 1,1,2-Trichloroethane
 Concen: 22.601 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.02 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

Tot Ion: 97 Resp: 116495
 Ion Ratio Lower Upper
 97 100
 83 85.6 63.2 94.8
 85 52.2 42.0 63.0
 99 68.8 48.3 72.5

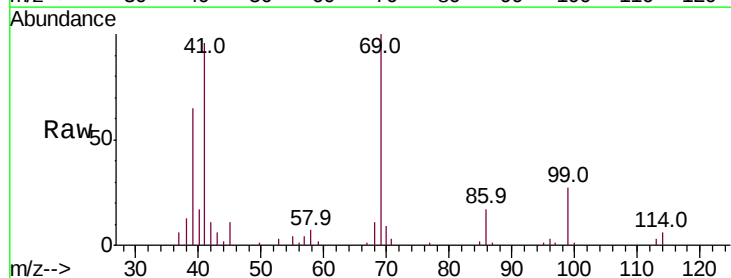


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

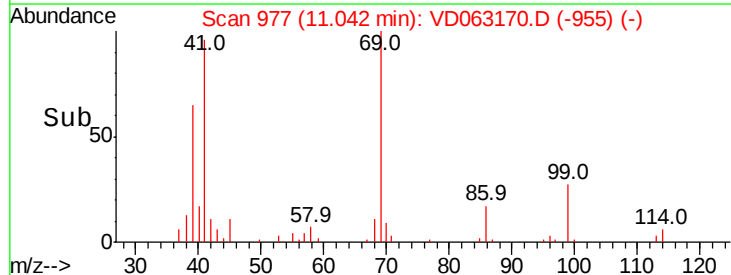
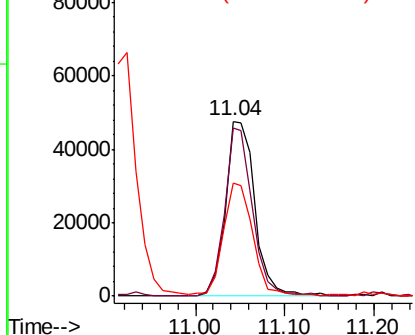


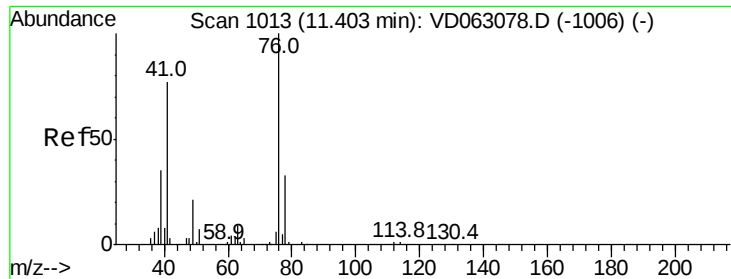
#56
 Ethyl methacrylate
 Concen: 19.094 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 69 Resp: 109968
 Ion Ratio Lower Upper
 69 100
 41 96.2 71.0 106.4
 39 64.9 47.7 71.5



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: 20.431 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

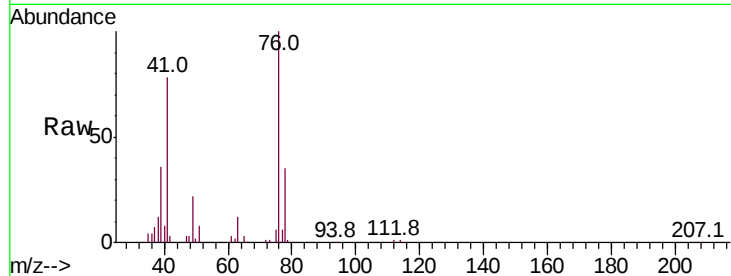
VD0722SBS01

Tot Ion: 76 Resp: 160251

Ion Ratio Lower Upper

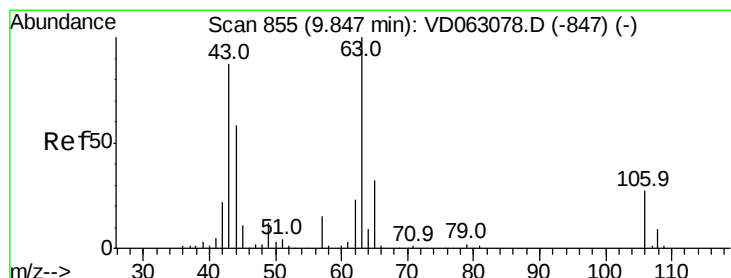
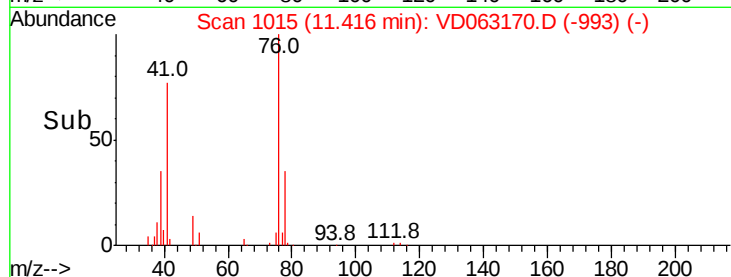
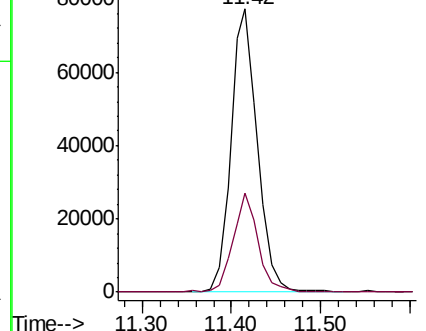
76 100

78 34.8 26.8 40.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 107.341 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD063170.D

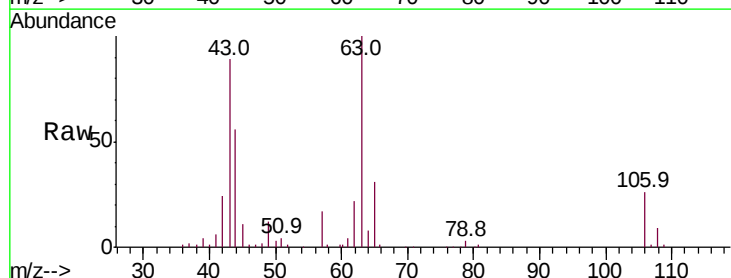
Acq: 22 Jul 2019 12:04

Tgt Ion: 63 Resp: 344216

Ion Ratio Lower Upper

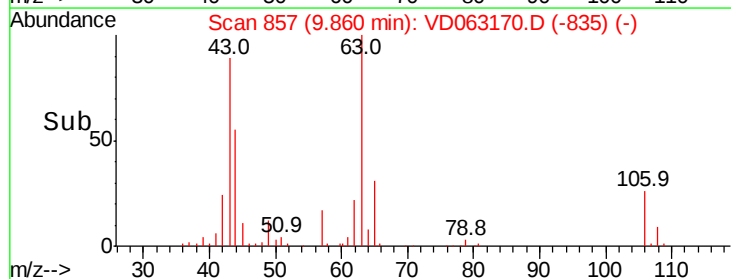
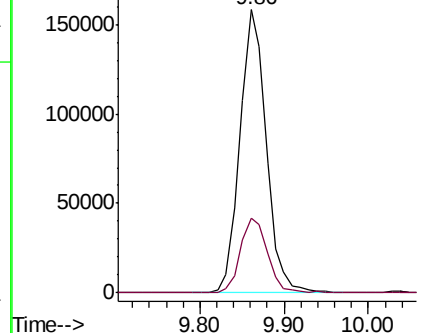
63 100

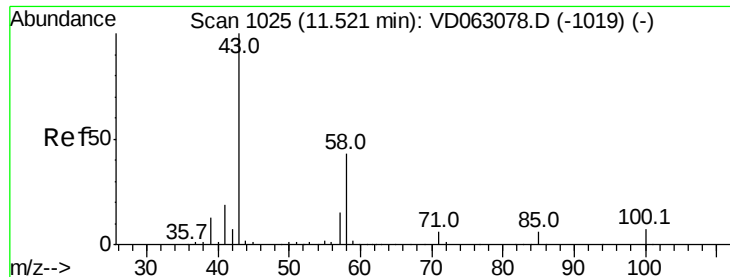
106 26.3 21.3 31.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

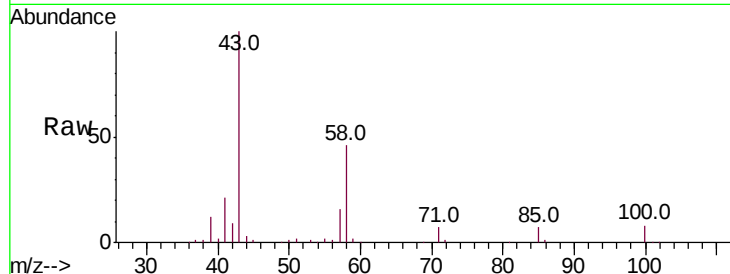




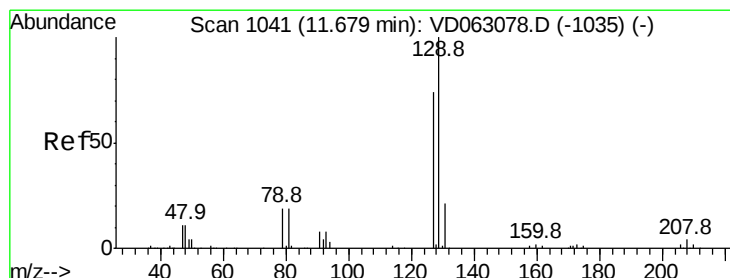
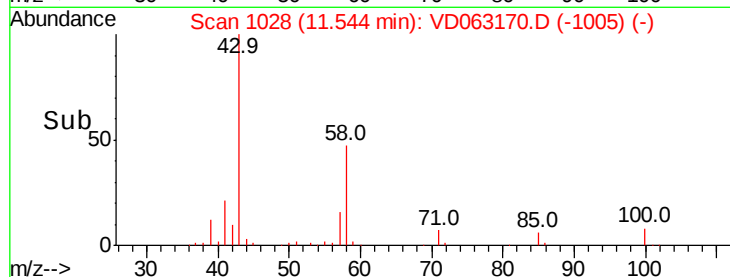
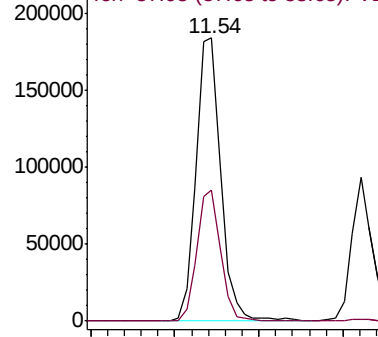
#59
2-Hexanone
Concen: 111.931 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

Tot Ion: 43 Resp: 374561
Ion Ratio Lower Upper
43 100
58 46.4 21.7 65.1

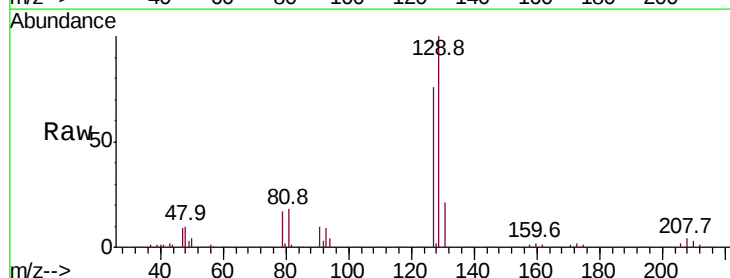


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

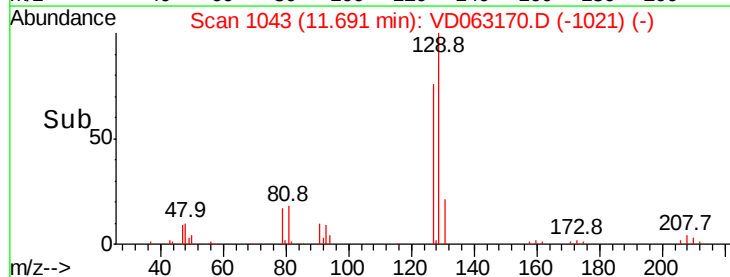
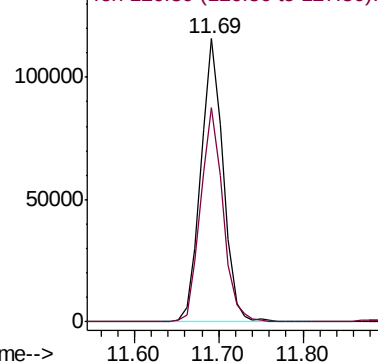


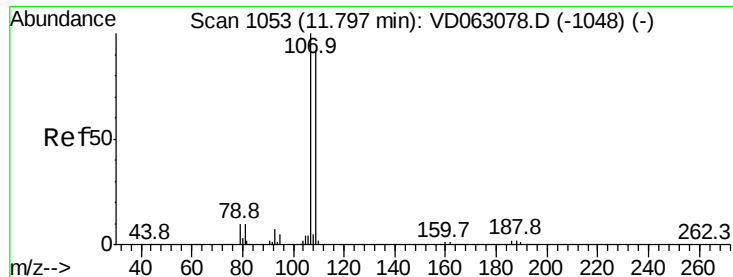
#60
Dibromochloromethane
Concen: 21.427 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 129 Resp: 211715
Ion Ratio Lower Upper
129 100
127 75.8 37.0 110.9



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





#61

1,2-Dibromoethane

Concen: 20.443 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

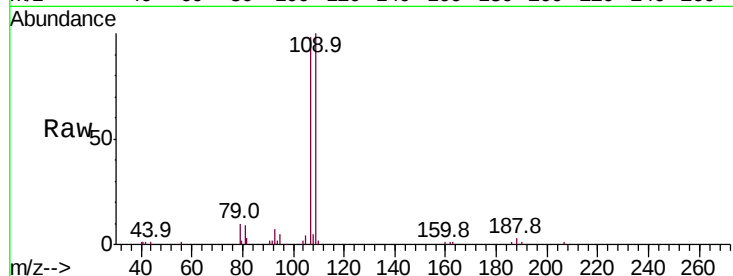
VD0722SBS01

Tot Ion:107 Resp: 126129

Ion Ratio Lower Upper

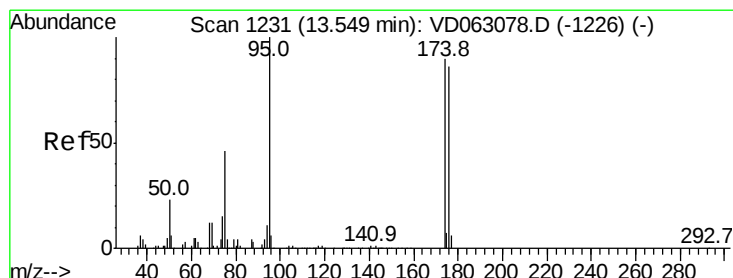
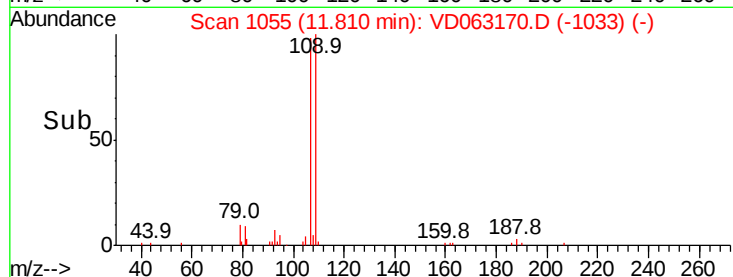
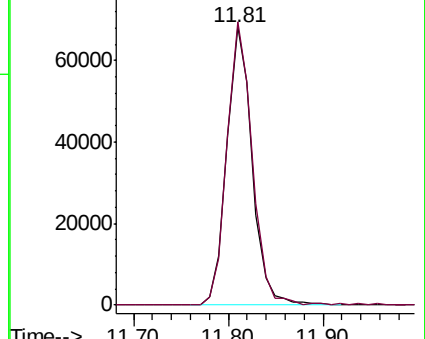
107 100

109 101.8 73.6 110.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 44.509 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

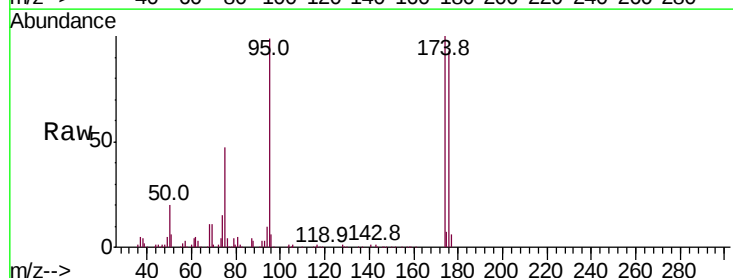
Tgt Ion: 95 Resp: 417749

Ion Ratio Lower Upper

95 100

174 100.6 0.0 180.6

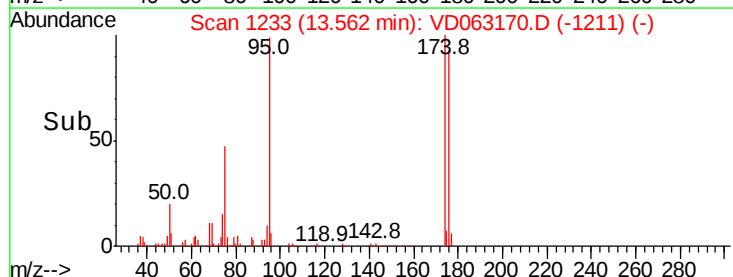
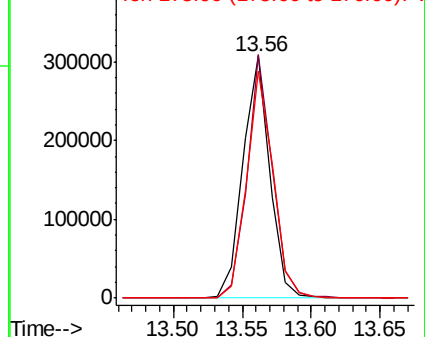
176 93.7 0.0 172.2

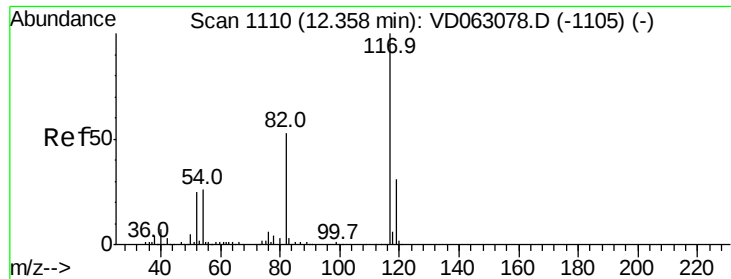


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

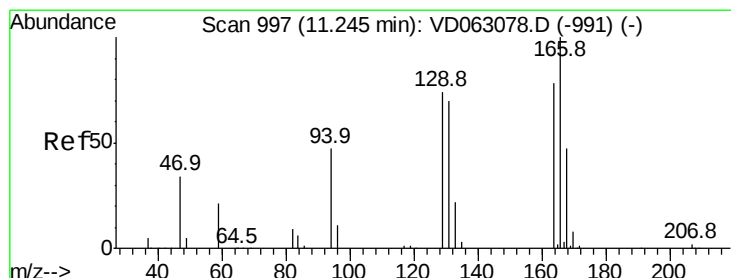
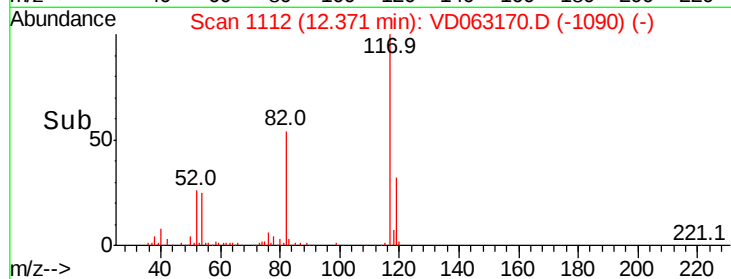
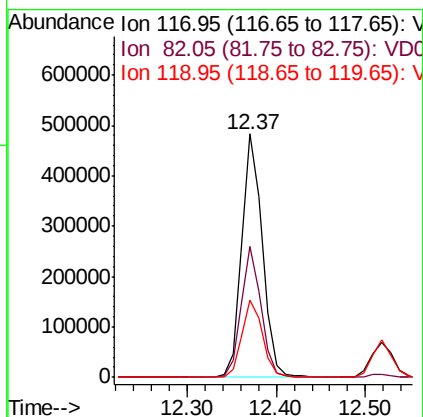
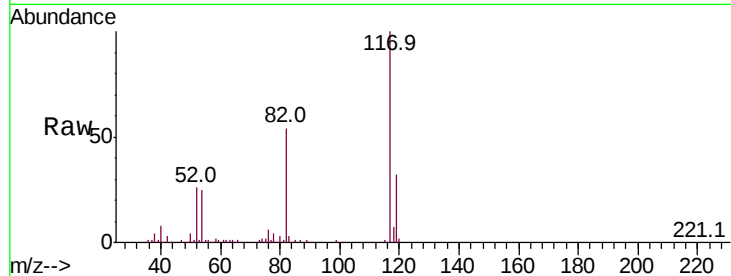




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

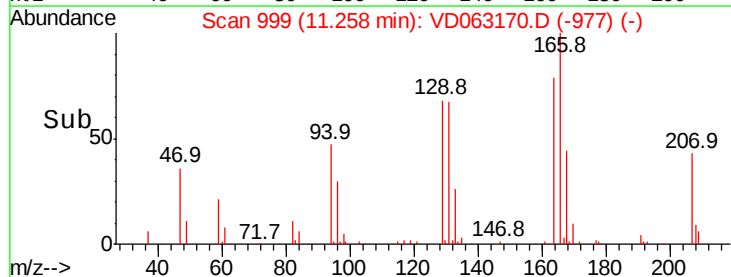
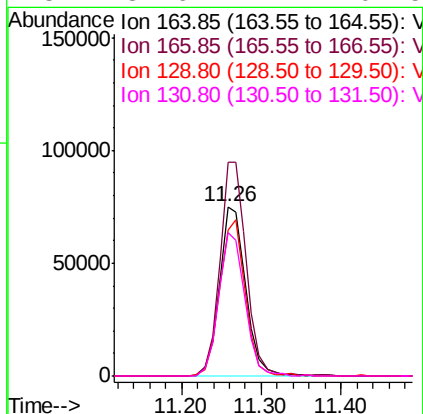
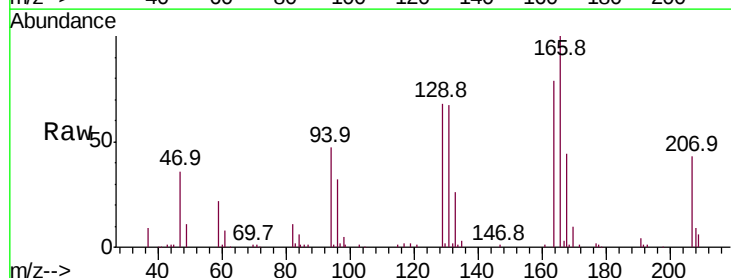
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

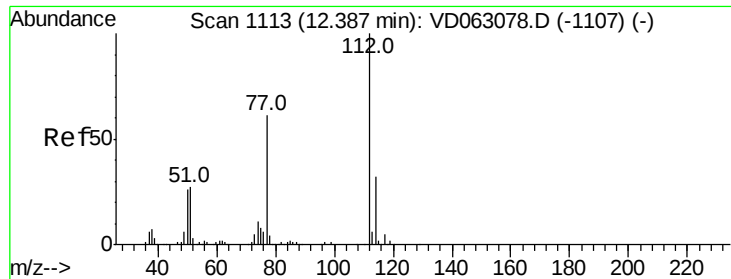
Tot Ion:117 Resp: 774054
Ion Ratio Lower Upper
117 100
82 53.8 42.3 63.5
119 32.0 25.2 37.8



#64
Tetrachloroethene
Concen: 23.072 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion:164 Resp: 173290
Ion Ratio Lower Upper
164 100
166 126.3 102.8 154.2
129 86.2 76.4 114.6
131 84.6 71.7 107.5





#65

Chlorobenzene

Concen: 21.324 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

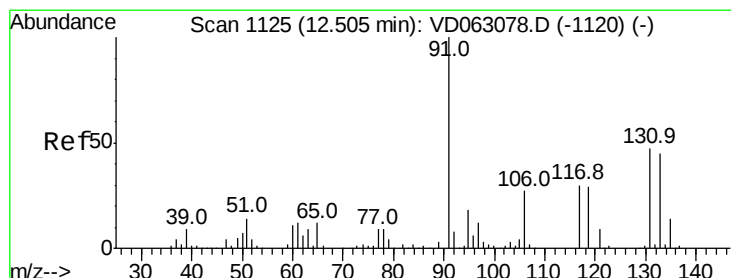
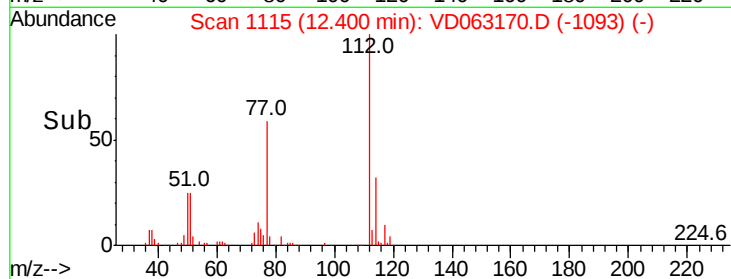
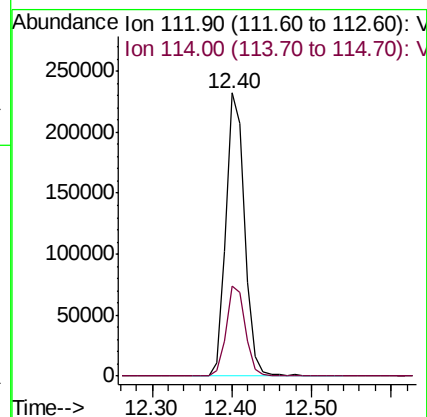
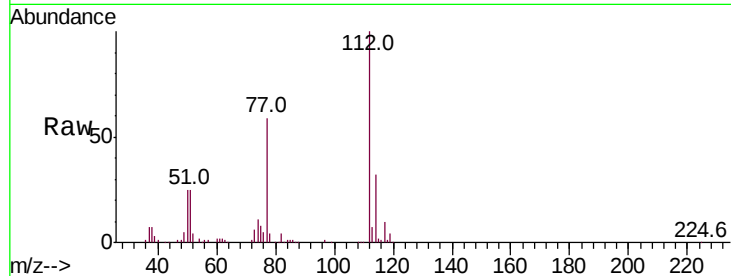
VD0722SBS01

Tot Ion:112 Resp: 388012

Ion Ratio Lower Upper

112 100

114 31.8 25.9 38.9



#66

1,1,1,2-Tetrachloroethane

Concen: 22.220 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

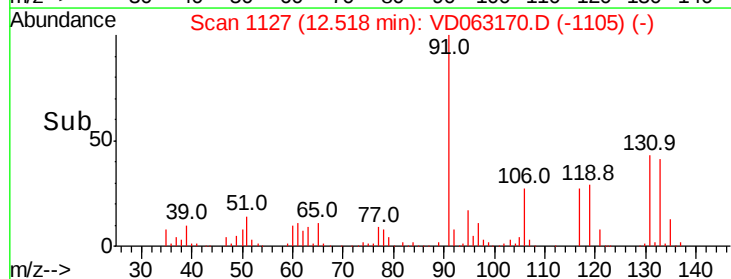
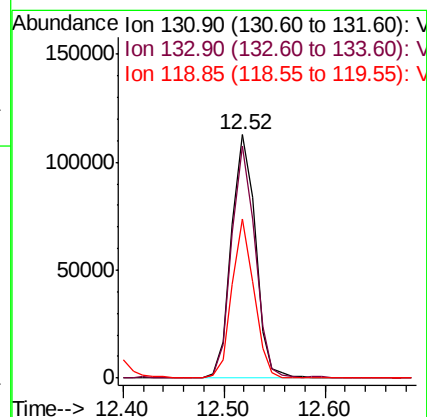
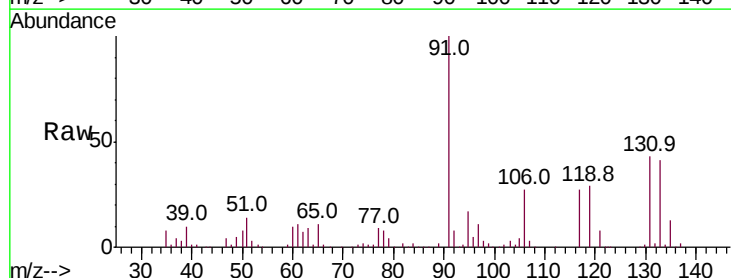
Tgt Ion:131 Resp: 187452

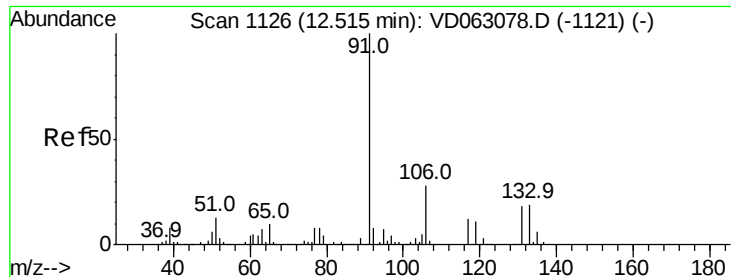
Ion Ratio Lower Upper

131 100

133 95.3 48.5 145.6

119 65.6 30.8 92.3





#67

Ethyl Benzene

Concen: 22.166 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

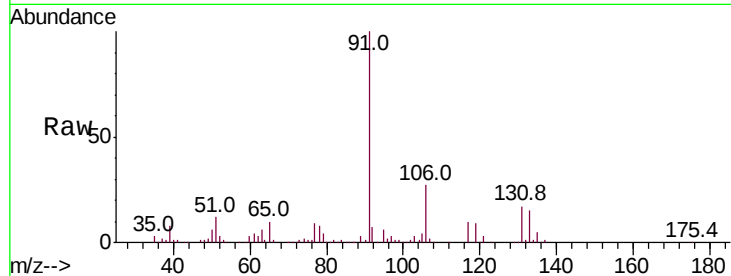
VD0722SBS01

Tot Ion: 91 Resp: 700791

Ion Ratio Lower Upper

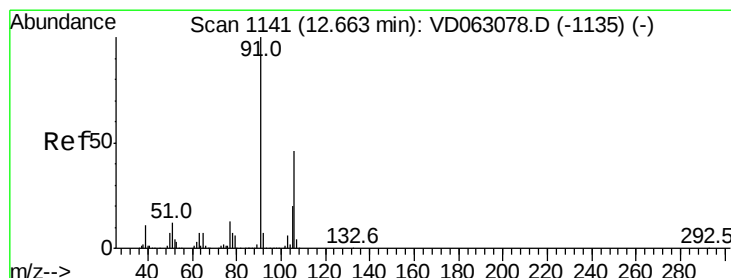
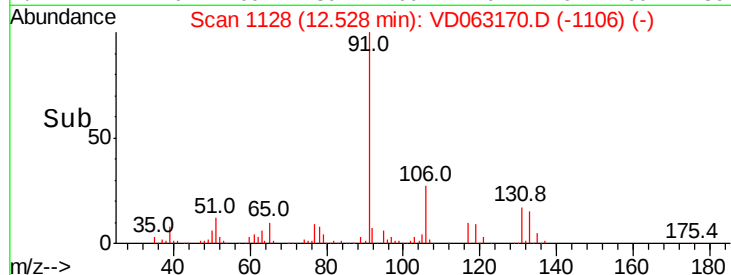
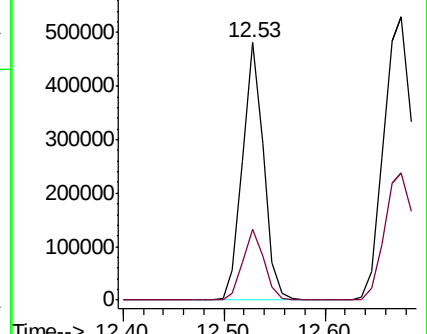
91 100

106 27.3 22.5 33.7



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): VDC



#68

m/p-Xylenes

Concen: 42.126 ug/l

RT: 12.68 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VD063170.D

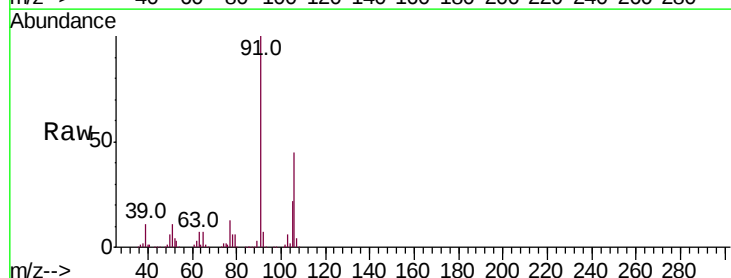
Acq: 22 Jul 2019 12:04

Tgt Ion: 106 Resp: 477028

Ion Ratio Lower Upper

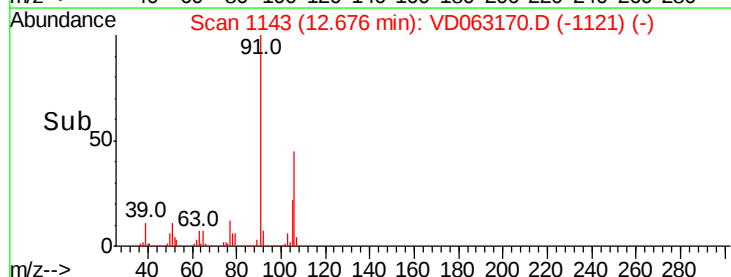
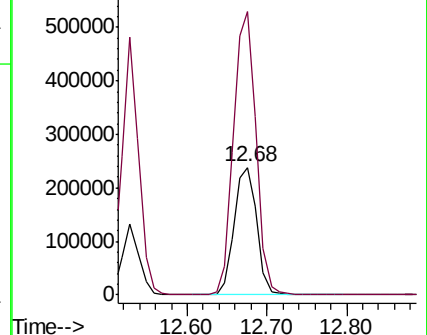
106 100

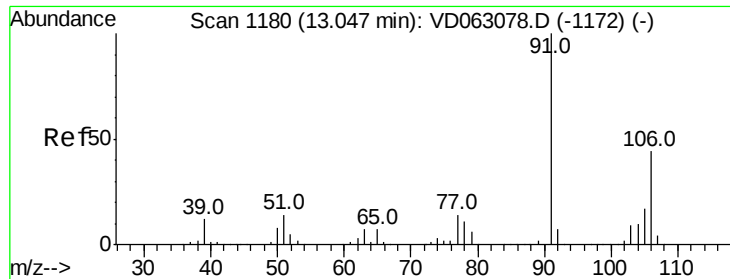
91 222.2 173.0 259.6



Abundance Ion 106.05 (105.75 to 106.75): VDC

Ion 91.00 (90.70 to 91.70): VDC

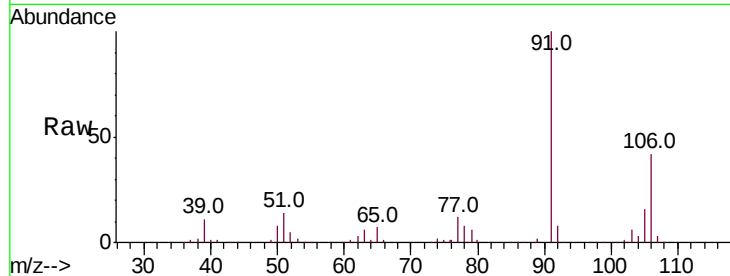




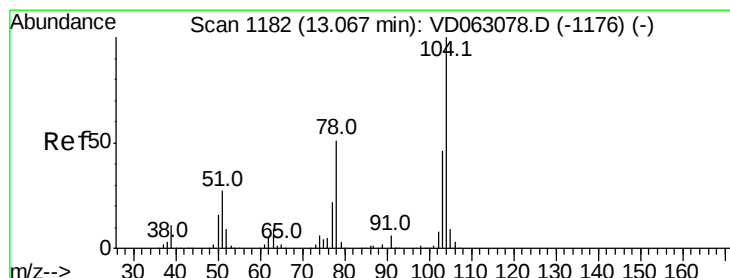
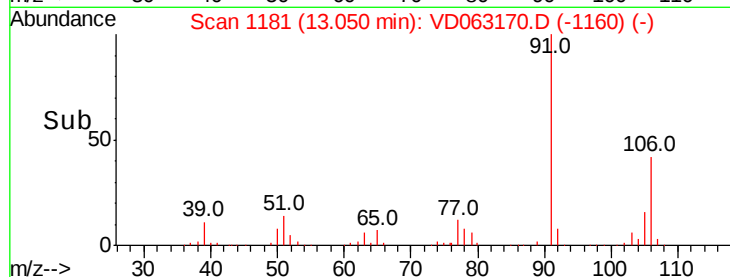
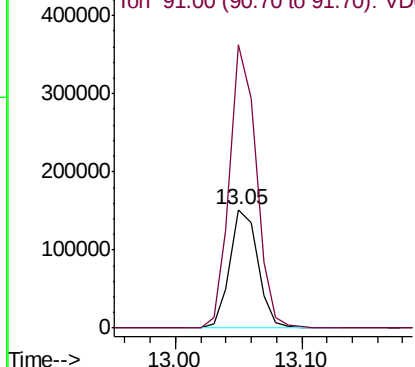
#69
o-Xylene
Concen: 21.786 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

Tot Ion:106 Resp: 233922
Ion Ratio Lower Upper
106 100
91 238.5 114.9 344.7

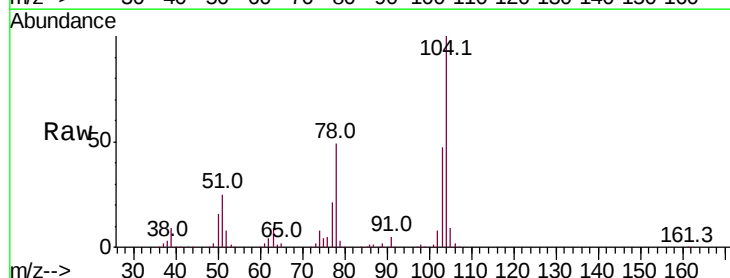


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

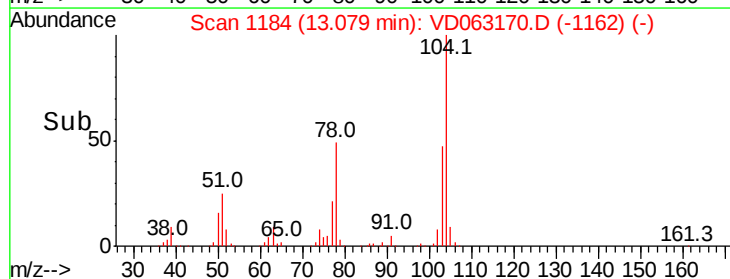
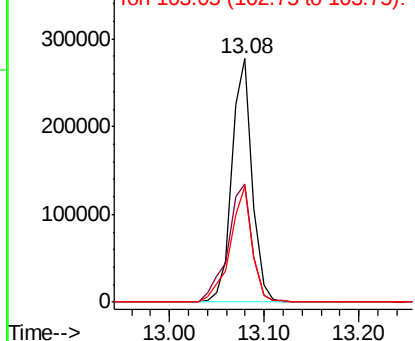


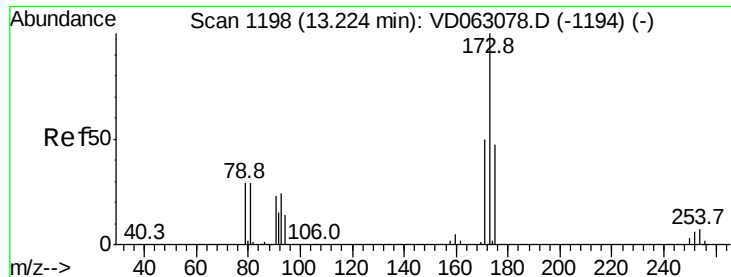
#70
Styrene
Concen: 21.830 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion:104 Resp: 410291
Ion Ratio Lower Upper
104 100
78 48.6 41.1 61.7
103 47.3 37.0 55.6



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

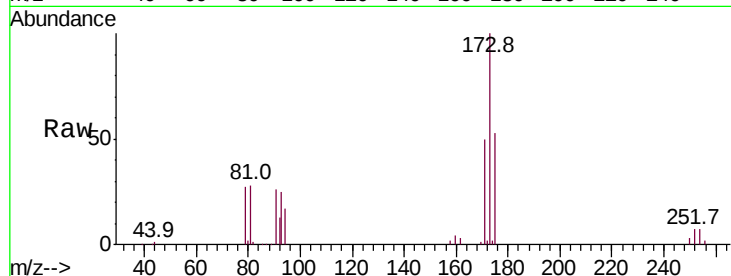




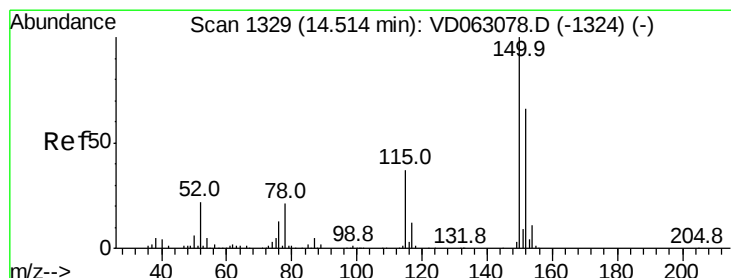
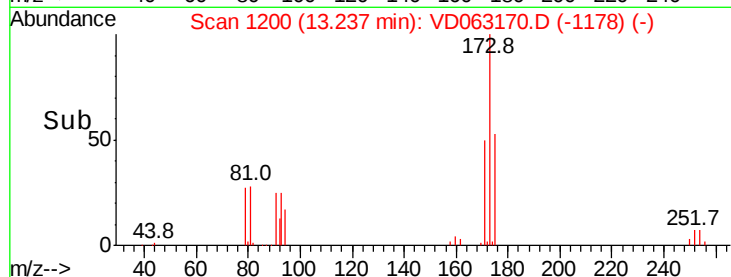
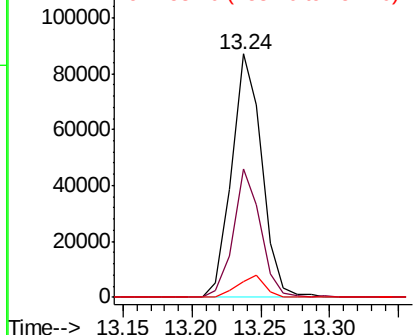
#71
Bromoform
Concen: 22.491 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

Tot Ion:173 Resp: 132836
Ion Ratio Lower Upper
173 100
175 52.7 23.4 70.2
254 6.7 5.4 8.0

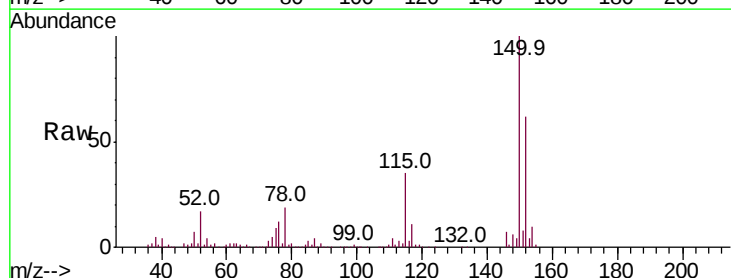


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

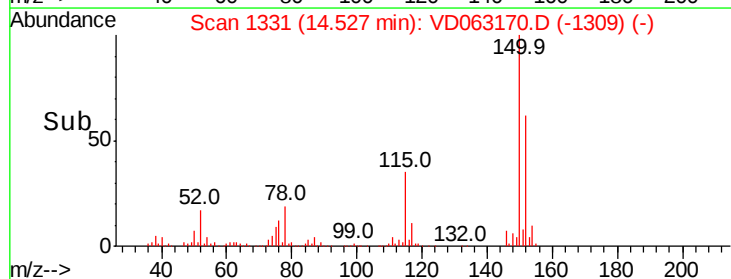
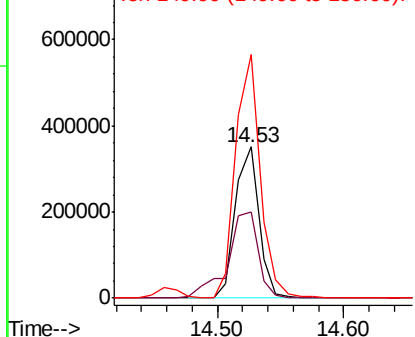


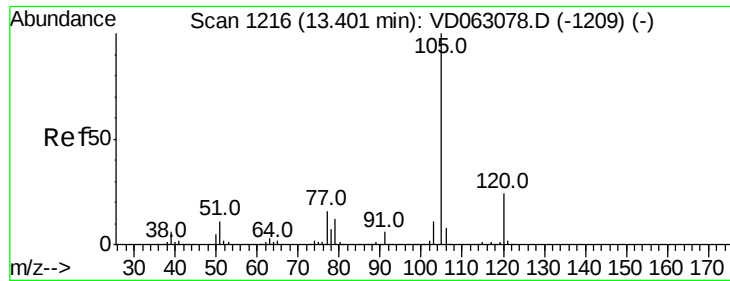
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion:152 Resp: 452165
Ion Ratio Lower Upper
152 100
115 57.1 28.9 86.8
150 161.1 0.0 313.8



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: 20.267 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

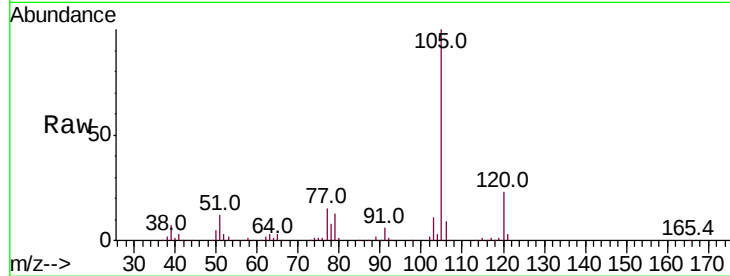
VD0722SBS01

Tot Ion:105 Resp: 707716

Ion Ratio Lower Upper

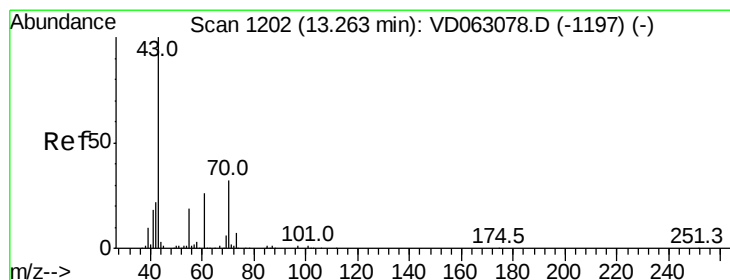
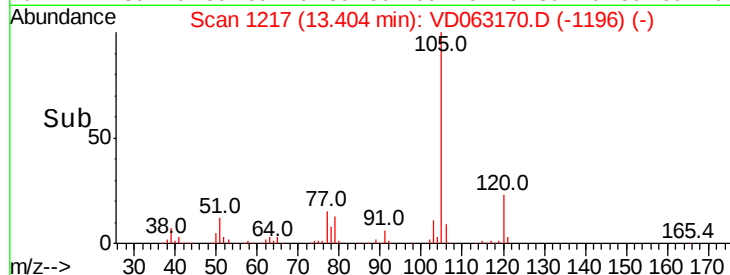
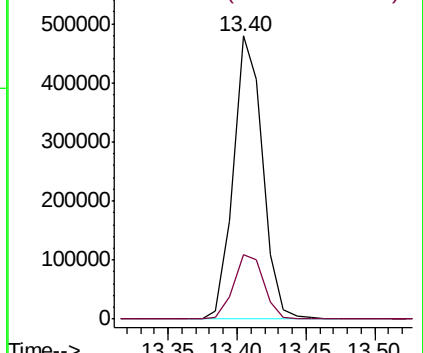
105 100

120 22.8 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 20.092 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Tgt Ion: 43 Resp: 195673

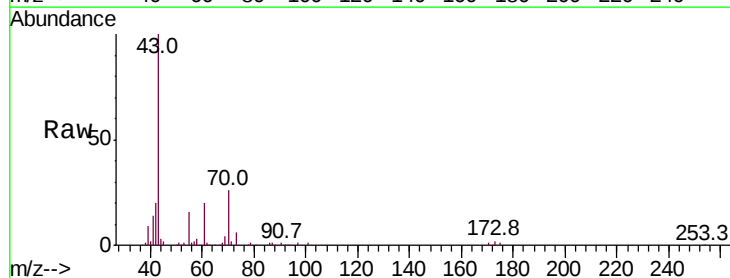
Ion Ratio Lower Upper

43 100

70 25.6 25.5 38.3

55 15.8 15.4 23.0

61 19.7 20.6 31.0#

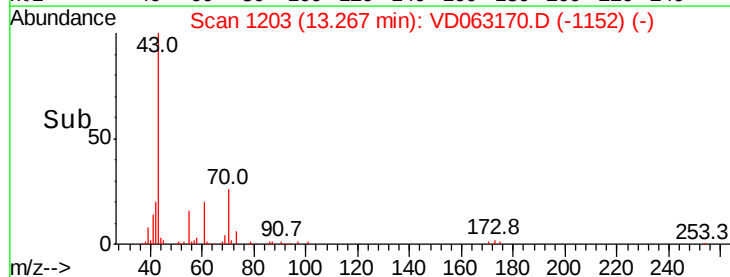
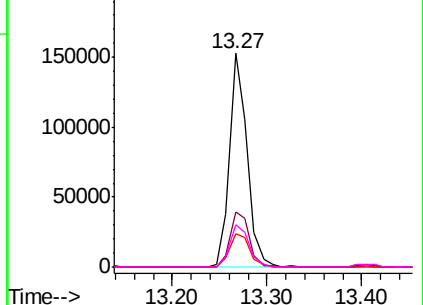


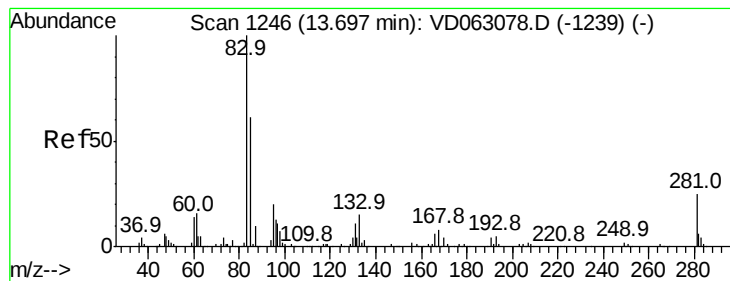
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 21.254 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

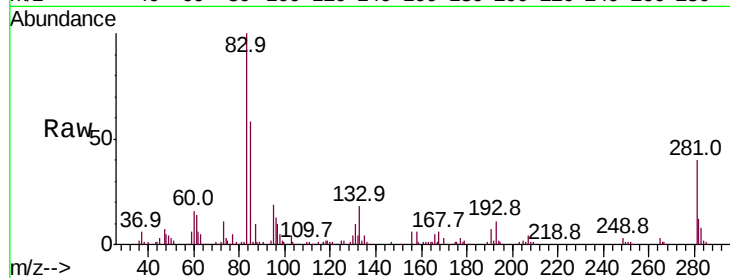
Tot Ion: 83 Resp: 135032

Ion Ratio Lower Upper

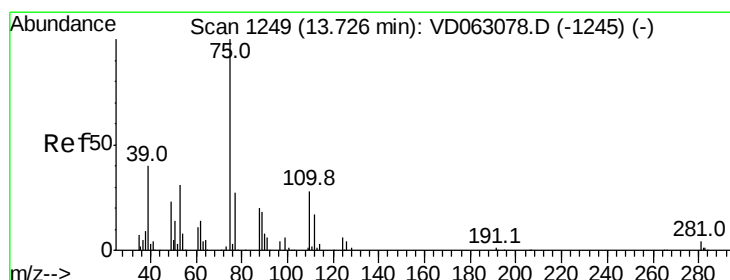
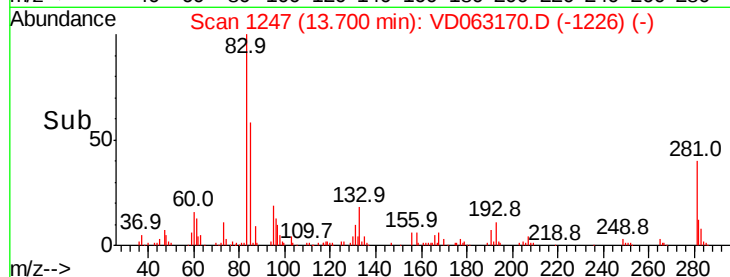
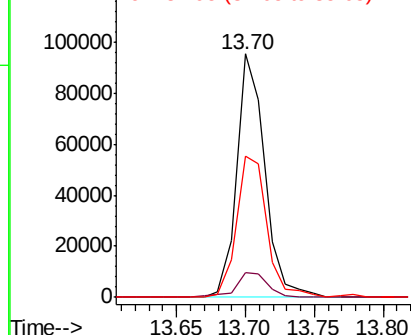
83 100

131 9.9 5.5 16.7

85 57.8 30.7 92.1



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: 20.943 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD063170.D

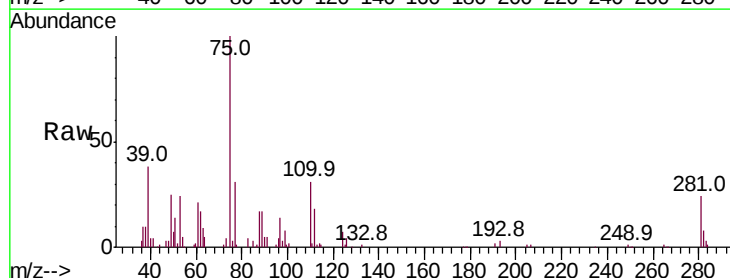
Acq: 22 Jul 2019 12:04

Tgt Ion: 75 Resp: 145670

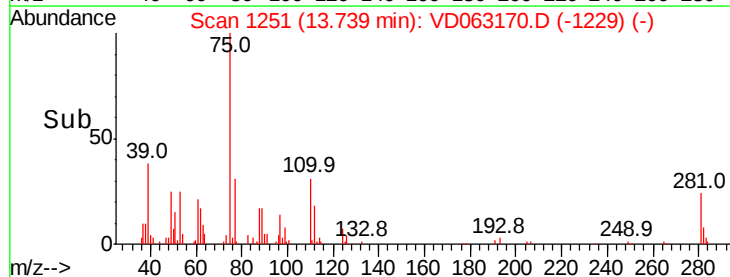
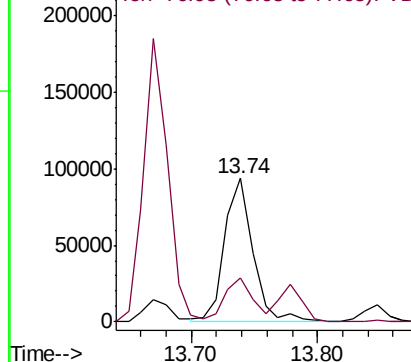
Ion Ratio Lower Upper

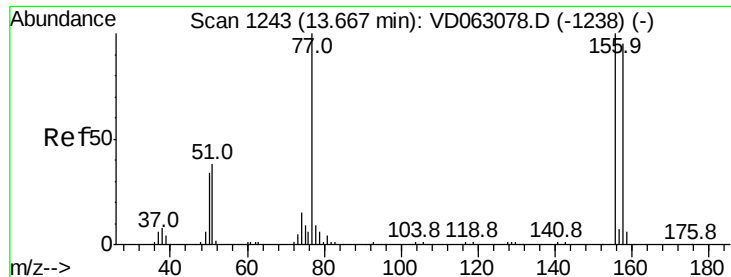
75 100

77 30.5 16.3 48.8



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





#77

Bromobenzene

Concen: 20.546 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

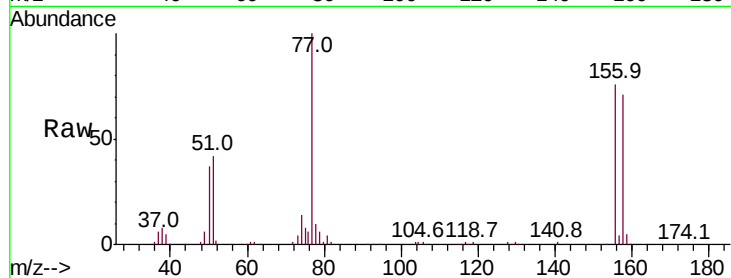
Tot Ion:156 Resp: 203462

Ion Ratio Lower Upper

156 100

77 131.2 50.2 150.7

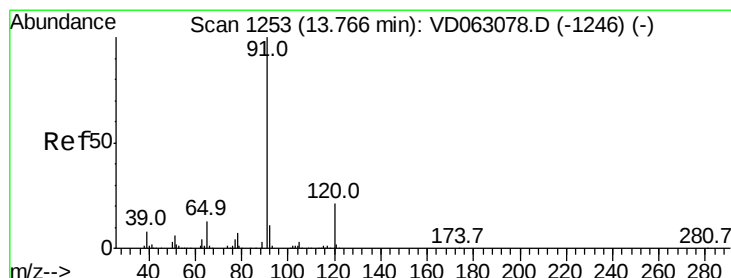
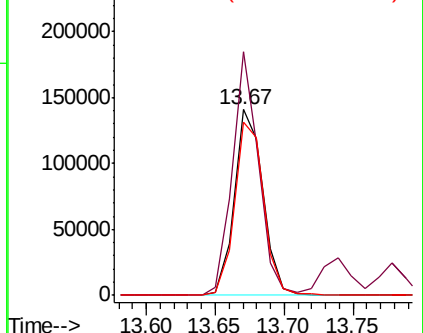
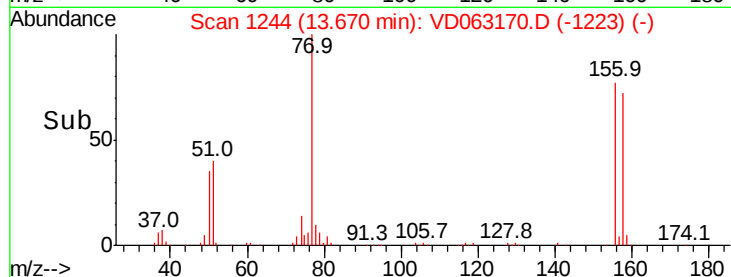
158 93.3 47.6 142.9



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: 20.494 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD063170.D

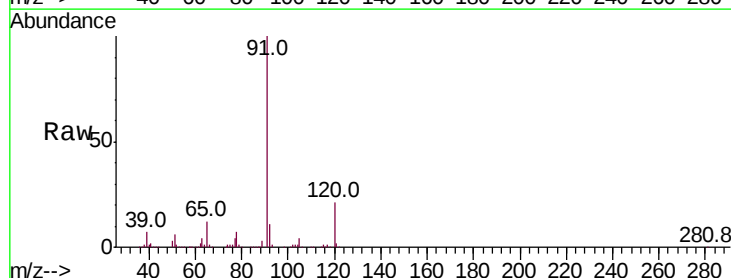
Acq: 22 Jul 2019 12:04

Tgt Ion: 91 Resp: 823521

Ion Ratio Lower Upper

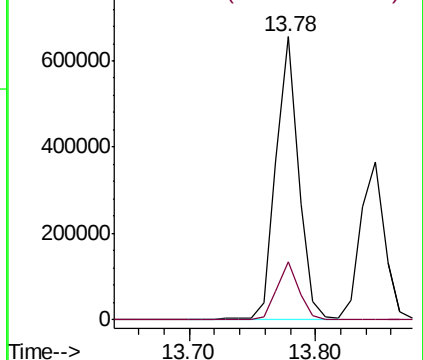
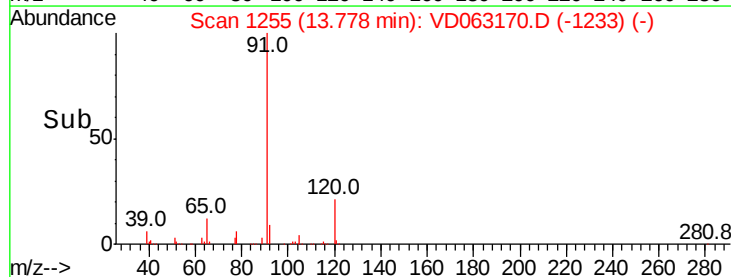
91 100

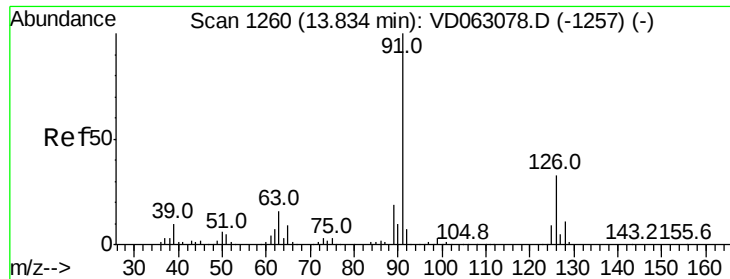
120 20.7 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

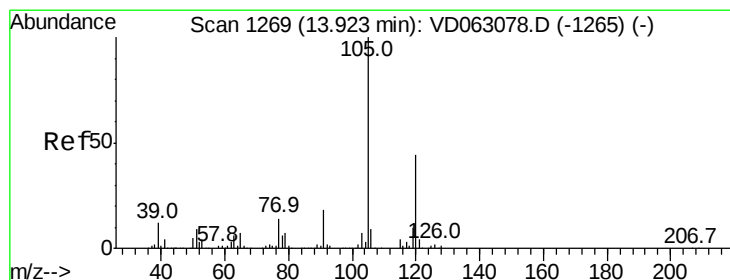
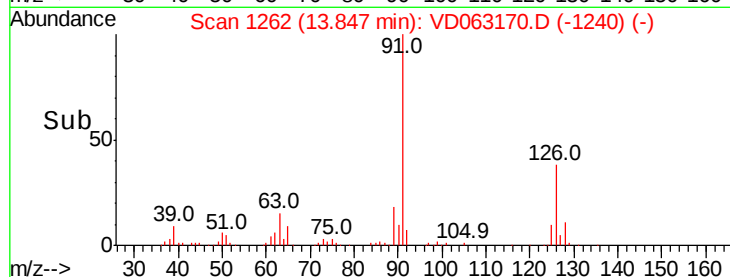
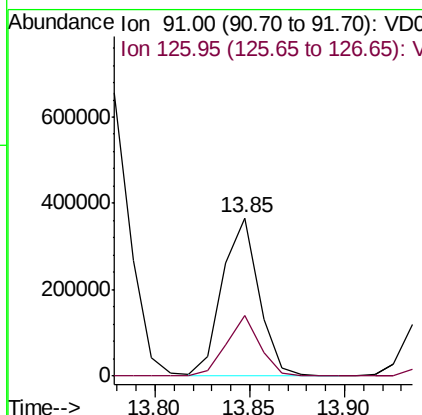
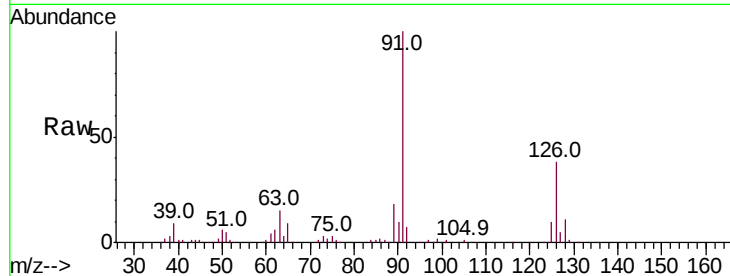




#79
 2-Chlorotoluene
 Concen: 19.902 ug/l
 RT: 13.85 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

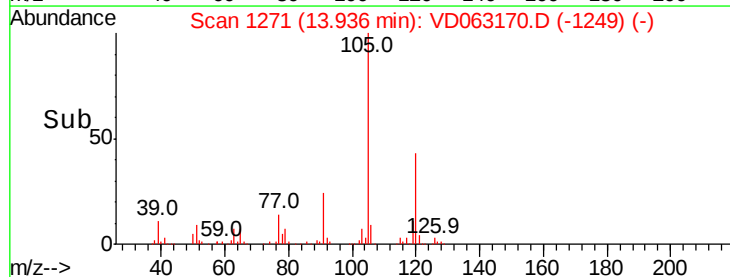
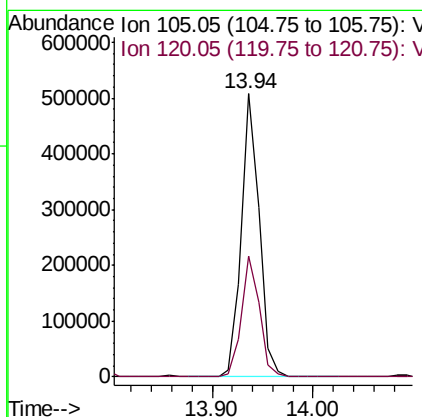
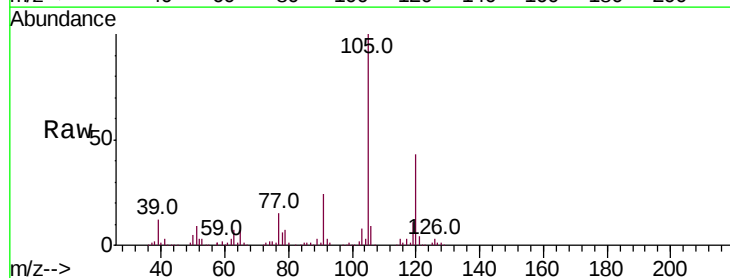
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

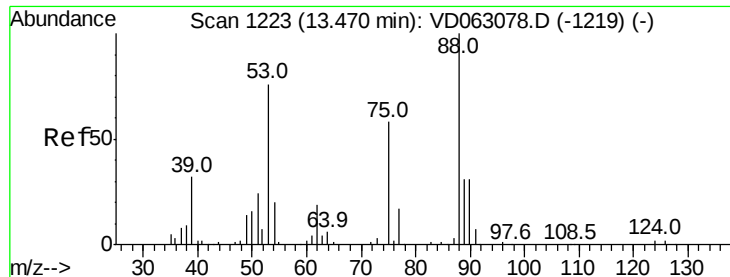
Tot Ion: 91 Resp: 483561
 Ion Ratio Lower Upper
 91 100
 126 38.2 16.4 49.2



#80
 1,3,5-Trimethylbenzene
 Concen: 20.524 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 105 Resp: 624634
 Ion Ratio Lower Upper
 105 100
 120 42.6 21.8 65.4





#81

trans-1,4-Dichloro-2-butene

Concen: 17.256 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

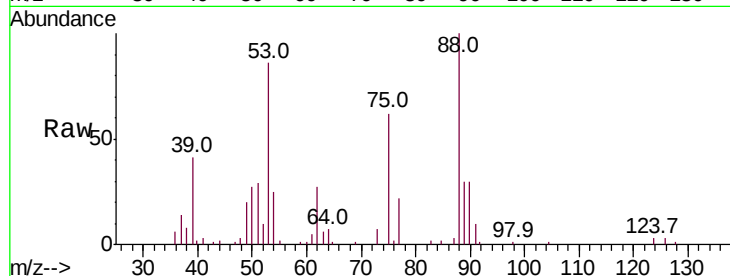
Tot Ion: 75 Resp: 31607

Ion Ratio Lower Upper

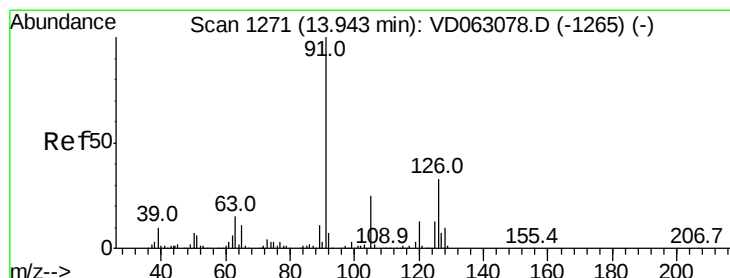
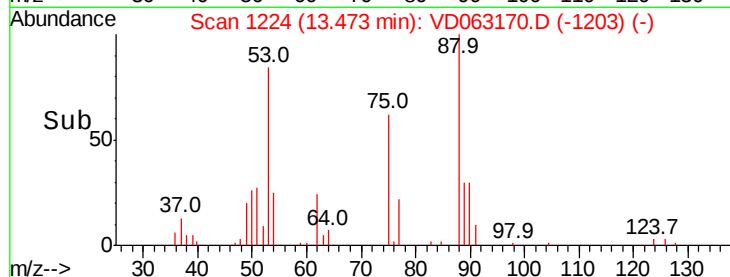
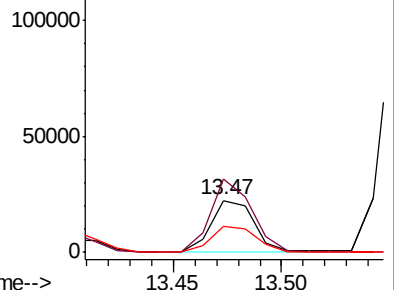
75 100

53 139.9 104.4 156.6

89 48.8 43.1 64.7



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 20.900 ug/l

RT: 13.96 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD063170.D

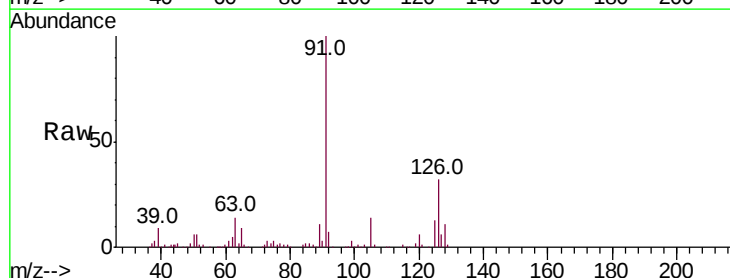
Acq: 22 Jul 2019 12:04

Tgt Ion: 91 Resp: 592967

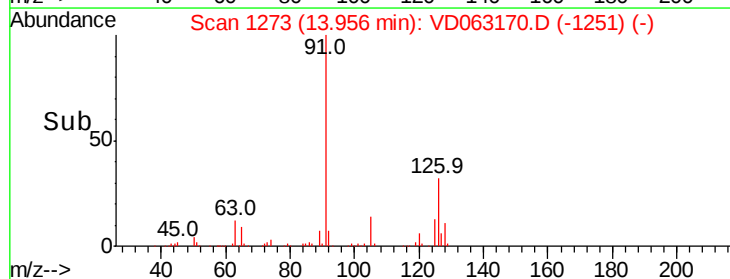
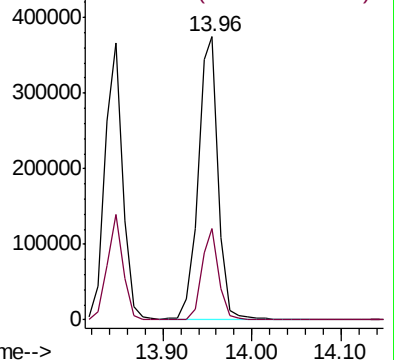
Ion Ratio Lower Upper

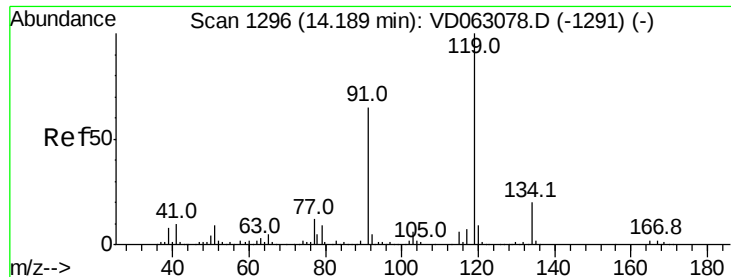
91 100

126 32.4 16.7 50.1



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





#83

tert-Butylbenzene

Concen: 19.775 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

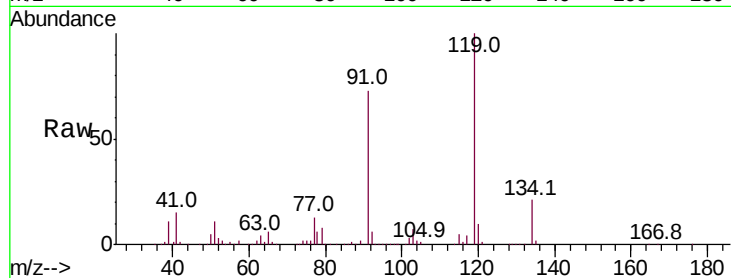
Tot Ion:119 Resp: 680499

Ion Ratio Lower Upper

119 100

91 73.1 32.4 97.2

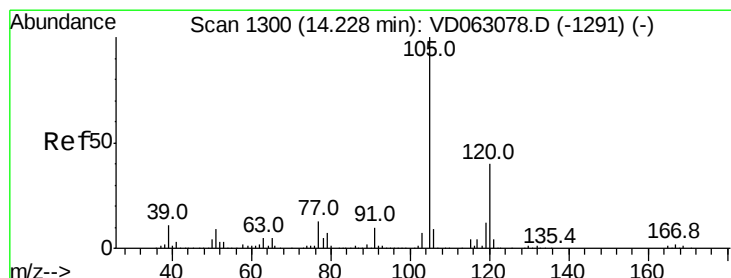
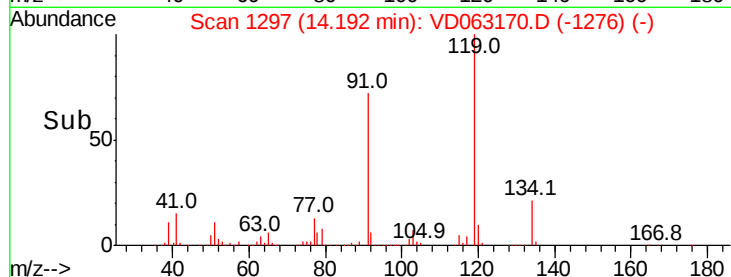
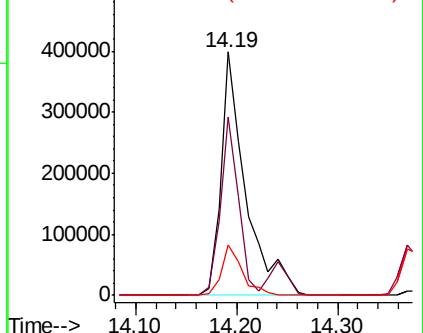
134 20.5 10.2 30.6



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: 20.012 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD063170.D

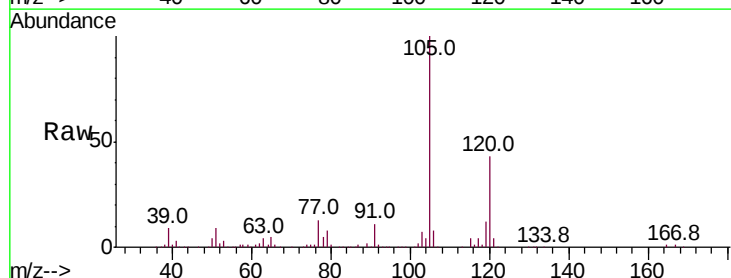
Acq: 22 Jul 2019 12:04

Tgt Ion:105 Resp: 607204

Ion Ratio Lower Upper

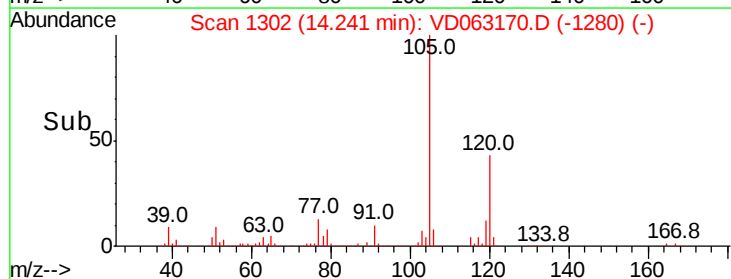
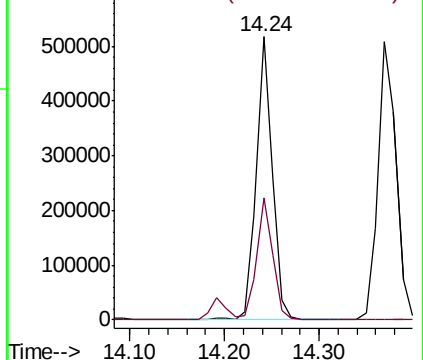
105 100

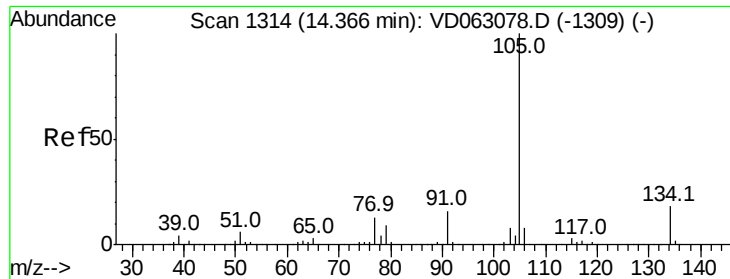
120 43.1 20.2 60.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 18.700 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

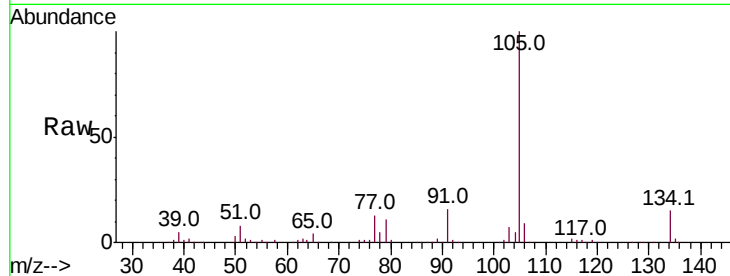
VD0722SBS01

Tot Ion:105 Resp: 683692

Ion Ratio Lower Upper

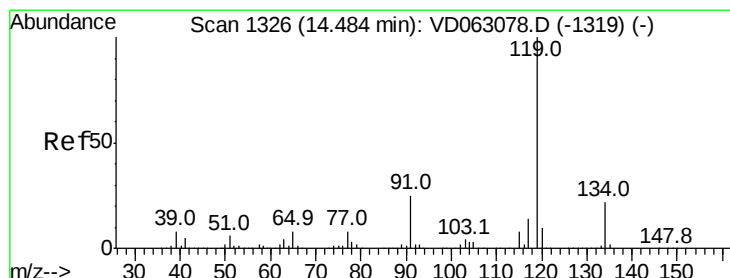
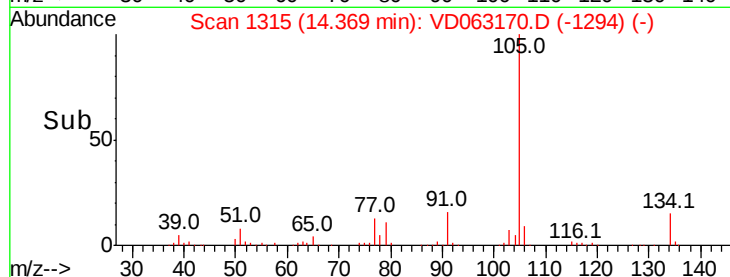
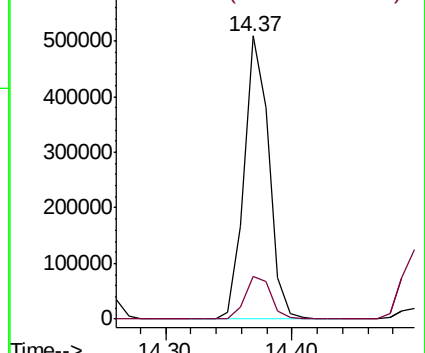
105 100

134 15.1 8.9 26.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 19.599 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

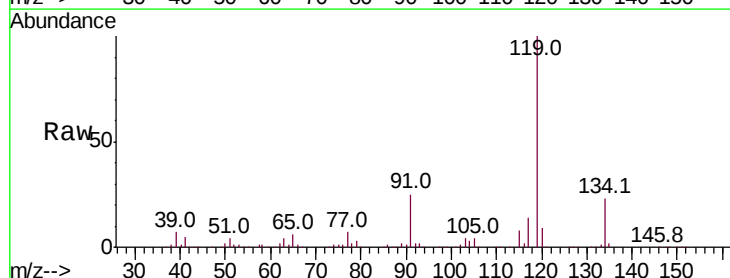
Tgt Ion:119 Resp: 668482

Ion Ratio Lower Upper

119 100

134 22.7 10.8 32.4

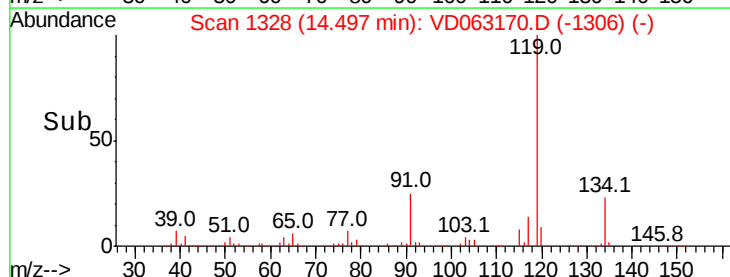
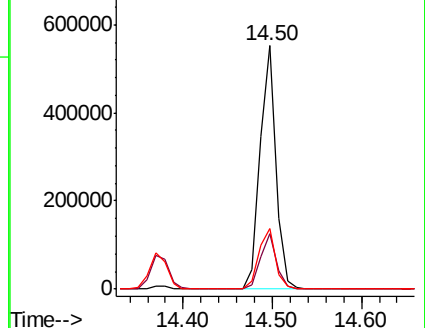
91 24.9 12.5 37.5

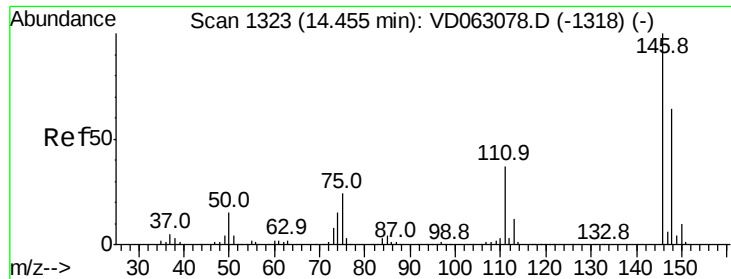


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

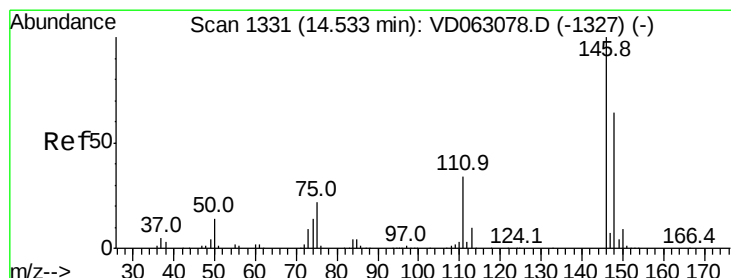
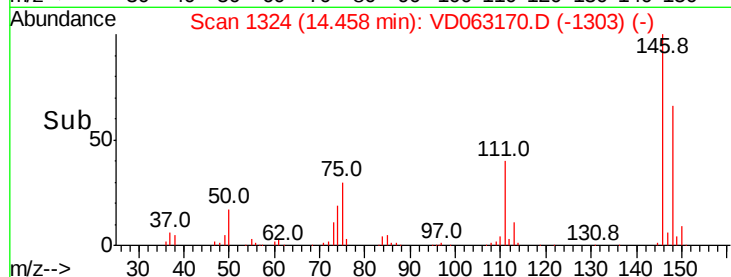
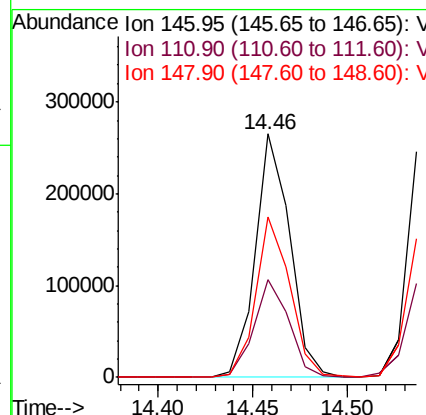
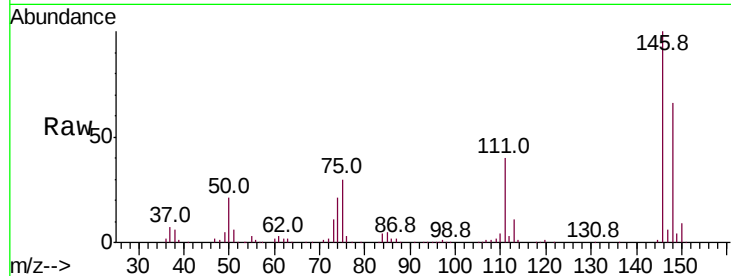




#87
 1,3-Dichlorobenzene
 Concen: 19.020 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

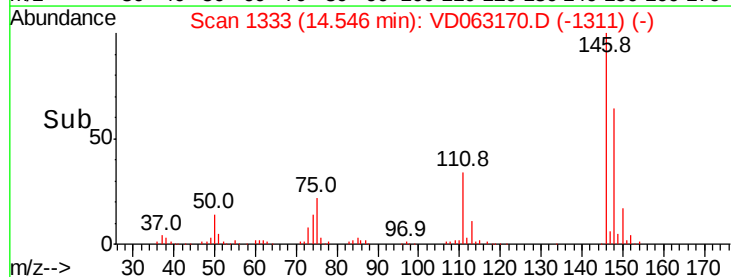
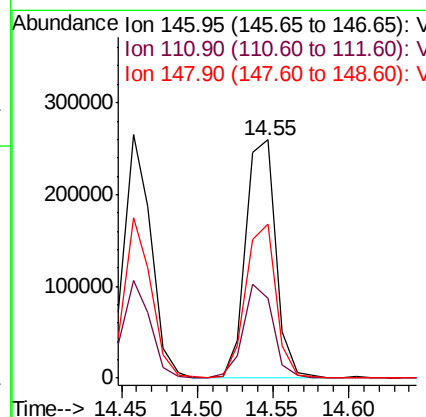
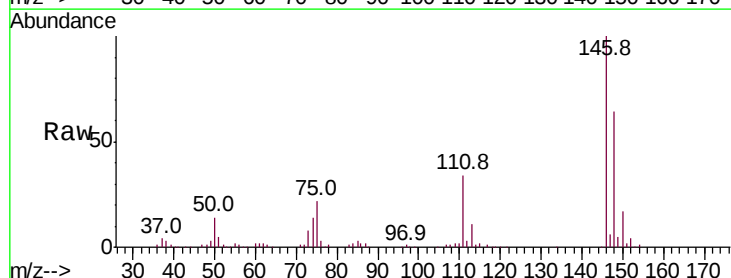
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

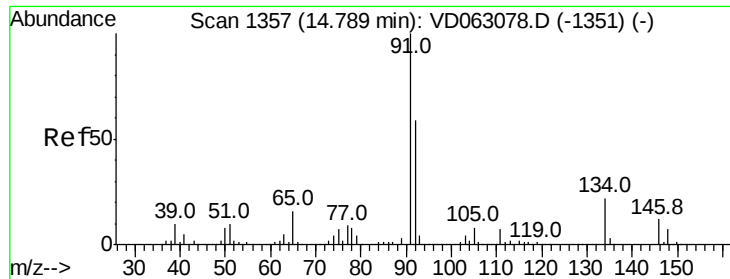
Tot Ion:146 Resp: 336365
 Ion Ratio Lower Upper
 146 100
 111 40.1 18.6 55.6
 148 65.8 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 21.100 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion:146 Resp: 357729
 Ion Ratio Lower Upper
 146 100
 111 33.6 17.0 51.0
 148 64.5 32.0 96.2

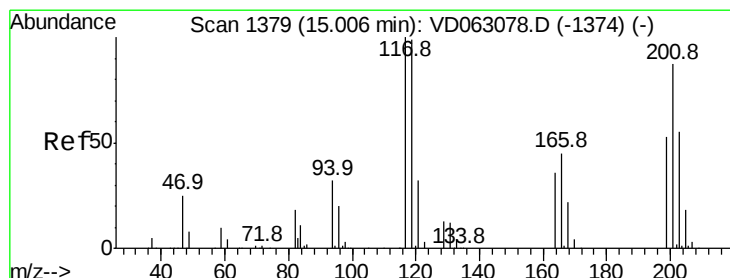
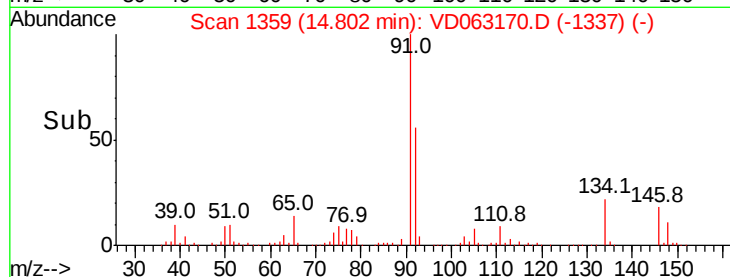
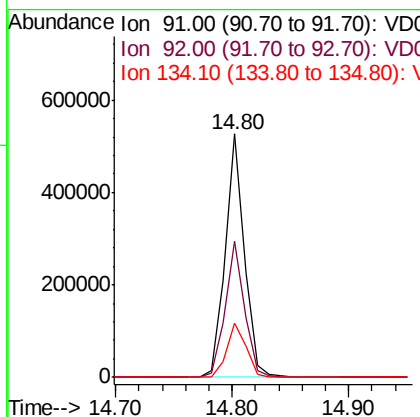
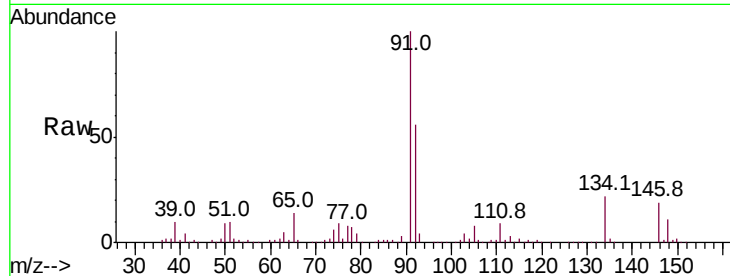




#89
n-Butylbenzene
Concen: 19.074 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

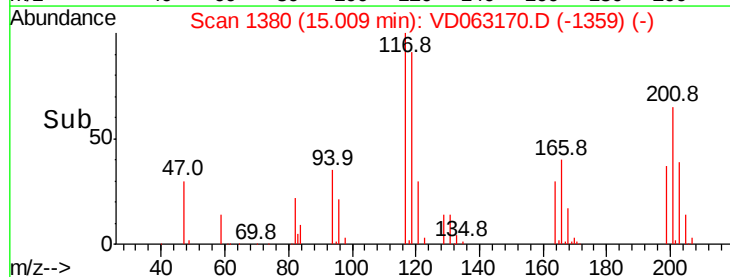
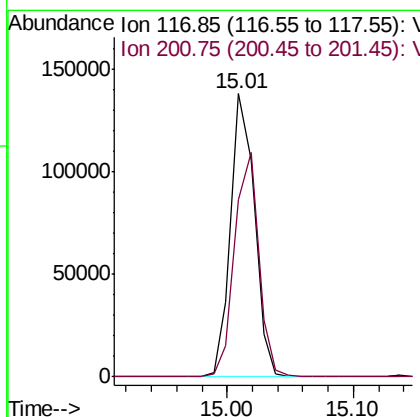
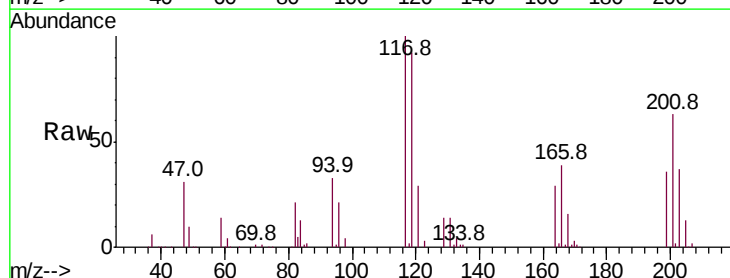
Instrument :
MSVOA_D
ClientSampleId :
VD0722SBS01

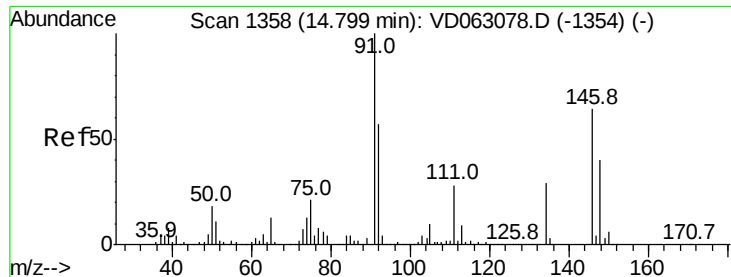
Tot Ion: 91 Resp: 599654
Ion Ratio Lower Upper
91 100
92 56.0 29.4 88.3
134 22.5 11.3 33.8



#90
Hexachloroethane
Concen: 19.832 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD063170.D
Acq: 22 Jul 2019 12:04

Tgt Ion: 117 Resp: 180828
Ion Ratio Lower Upper
117 100
201 62.8 43.4 130.1

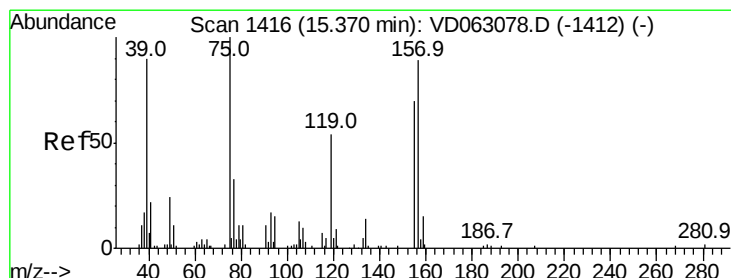
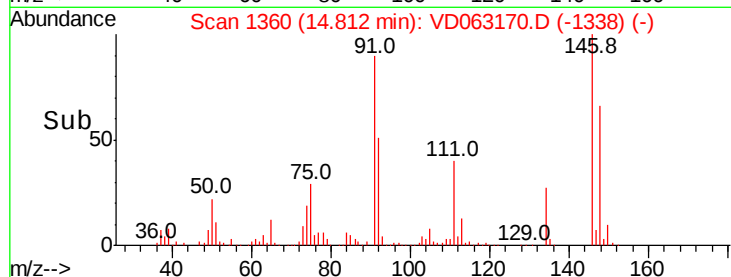
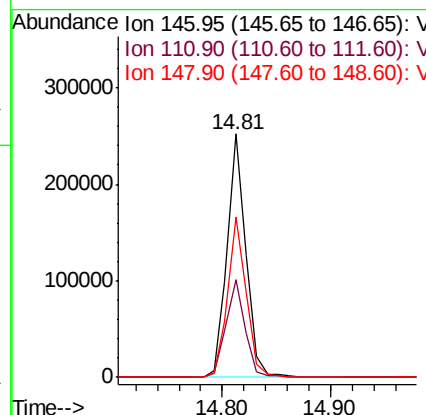
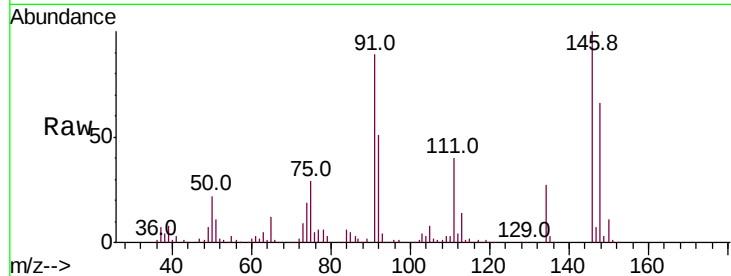




#91
 1,2-Dichlorobenzene
 Concen: 19.359 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

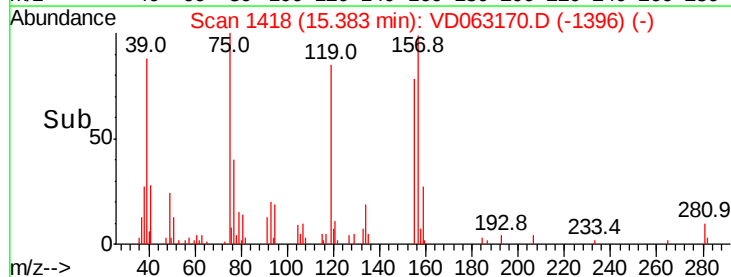
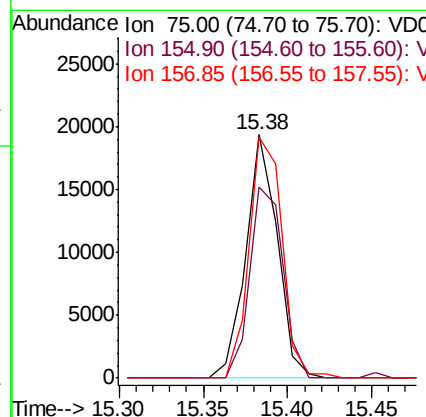
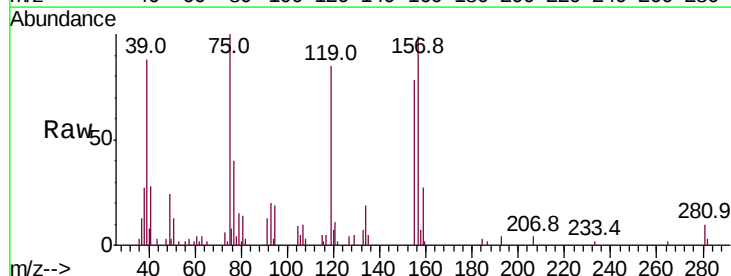
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

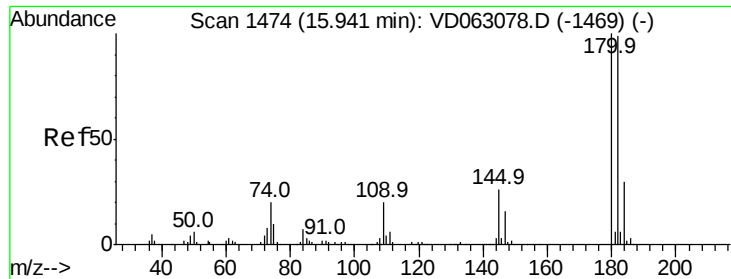
Tot Ion:146 Resp: 304851
 Ion Ratio Lower Upper
 146 100
 111 39.9 21.9 65.5
 148 66.2 31.5 94.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.571 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion: 75 Resp: 25051
 Ion Ratio Lower Upper
 75 100
 155 78.3 34.8 104.3
 157 98.9 44.7 134.1

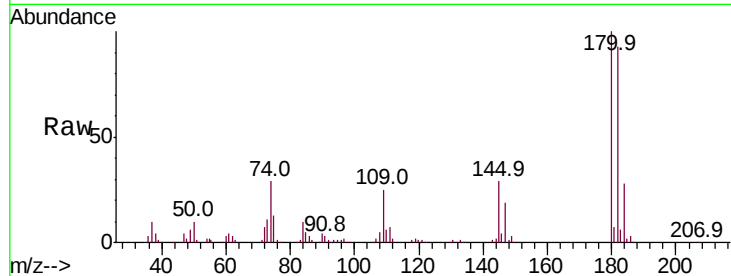




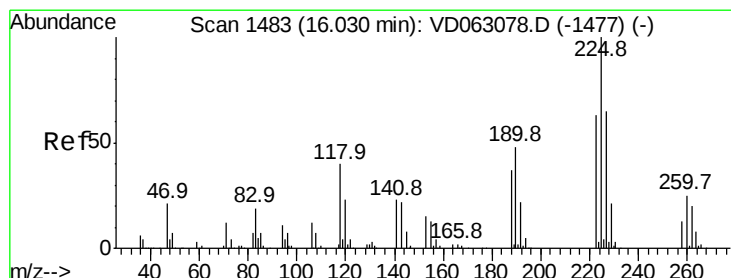
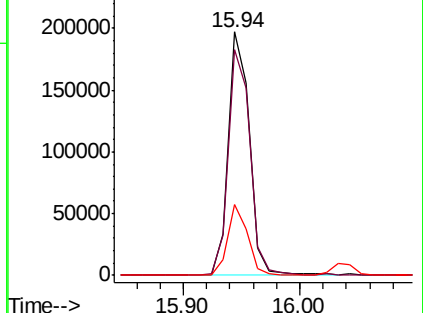
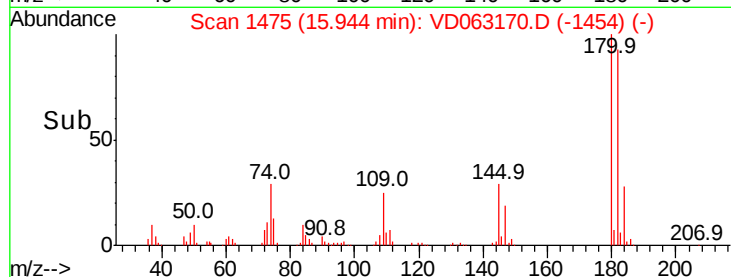
#93
 1,2,4-Trichlorobenzene
 Concen: 20.987 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0722SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.0	49.5	148.3
145	29.1	12.8	38.4

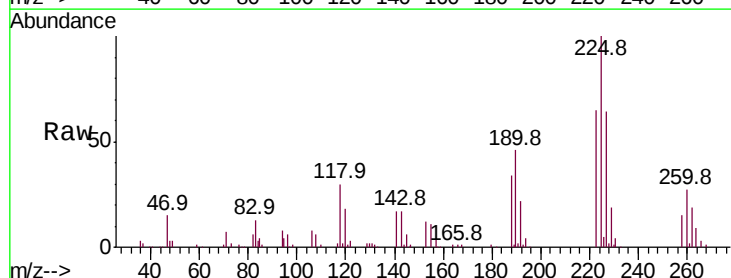


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

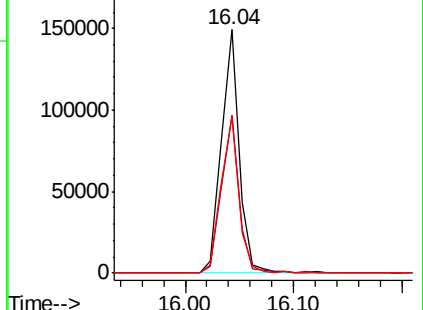
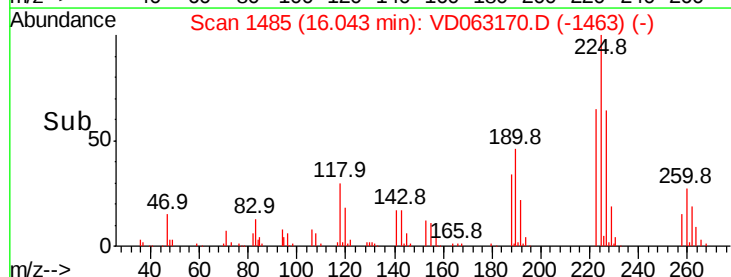


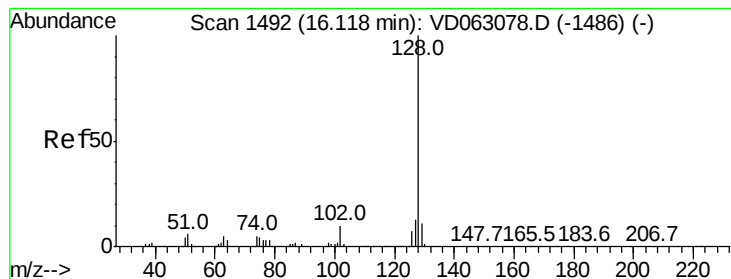
#94
 Hexachlorobutadiene
 Concen: 19.428 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD063170.D
 Acq: 22 Jul 2019 12:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.4	94.2
227	64.2	32.6	97.8



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: 21.304 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0722SBS01

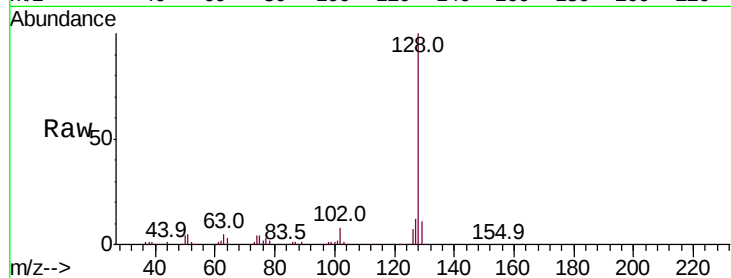
Tot Ion:128 Resp: 368683

Ion Ratio Lower Upper

128 100

127 12.4 10.7 16.1

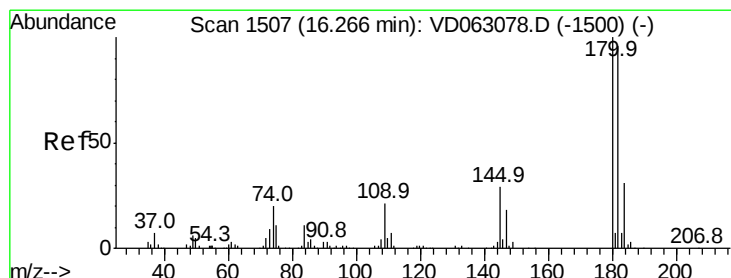
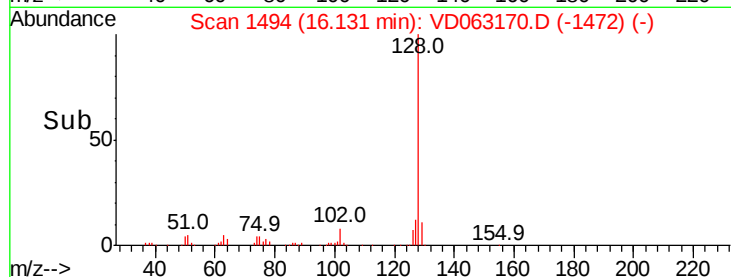
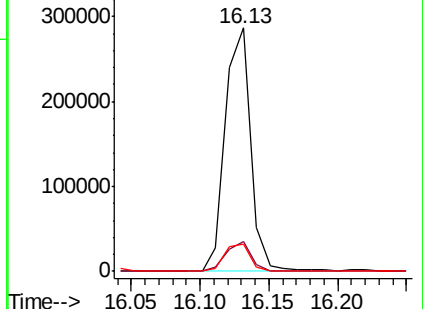
129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.832 ug/l

RT: 16.28 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VD063170.D

Acq: 22 Jul 2019 12:04

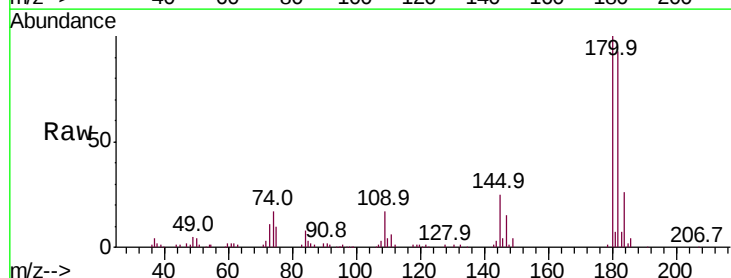
Tgt Ion:180 Resp: 198266

Ion Ratio Lower Upper

180 100

182 92.9 47.9 143.6

145 25.2 14.4 43.4



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

